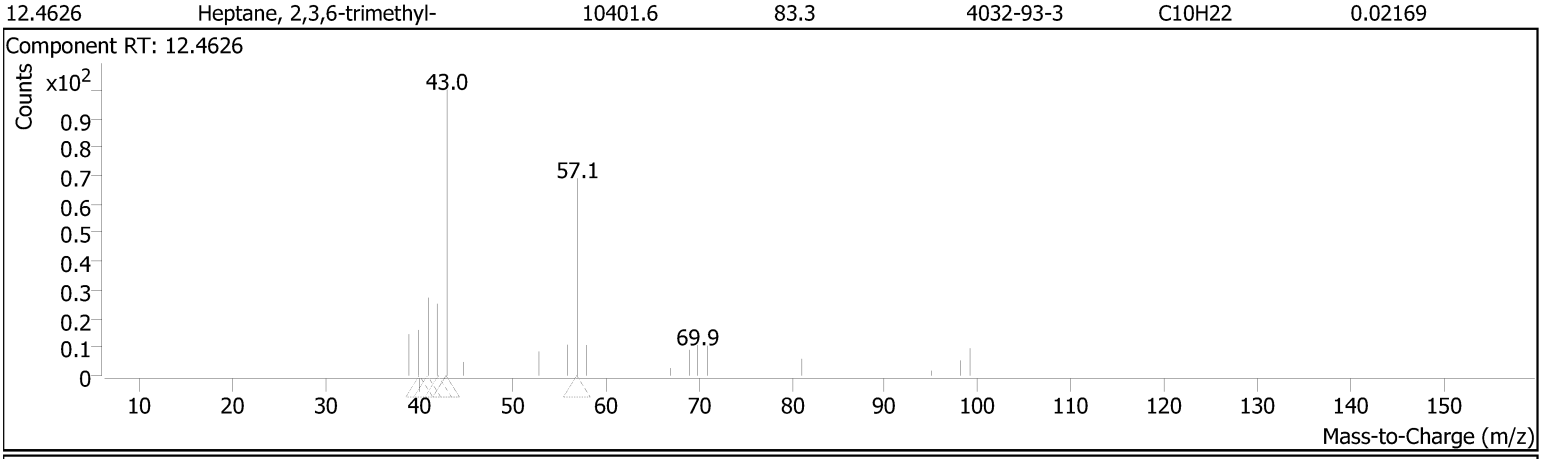
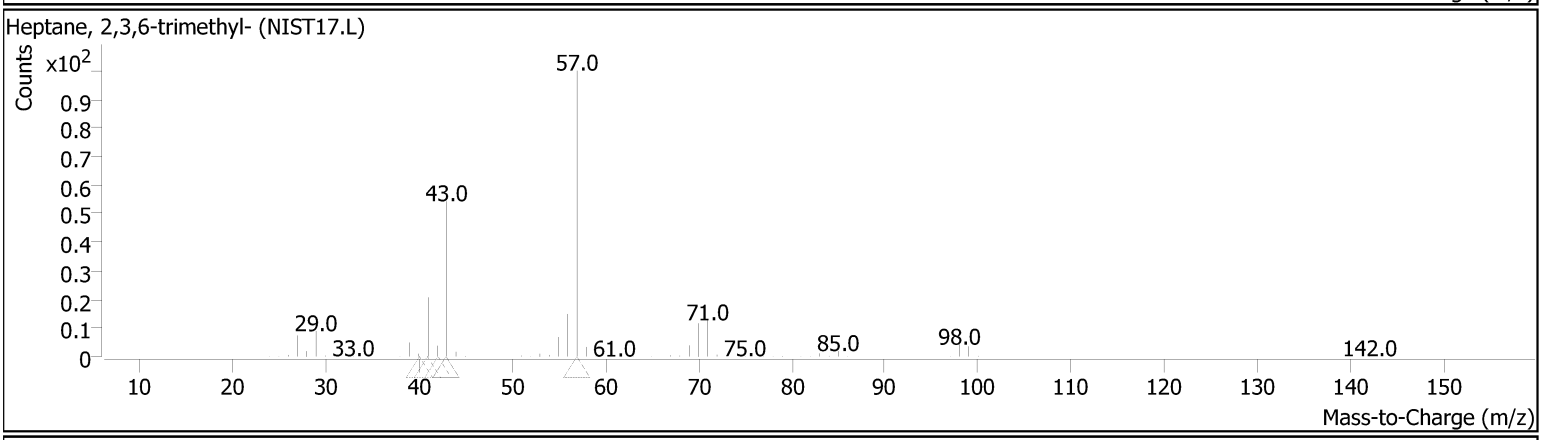
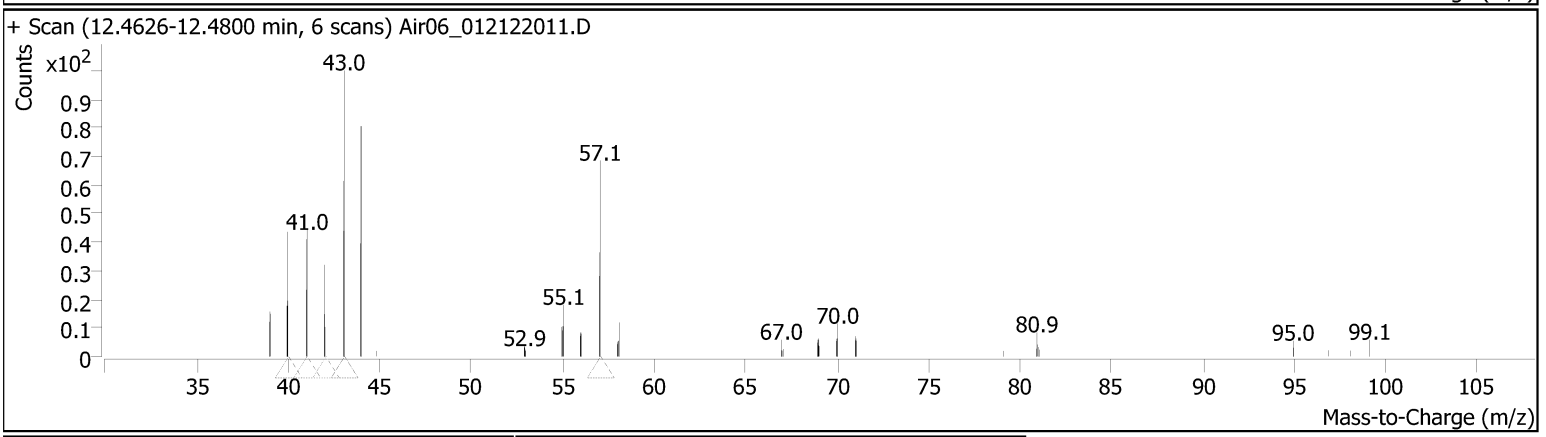
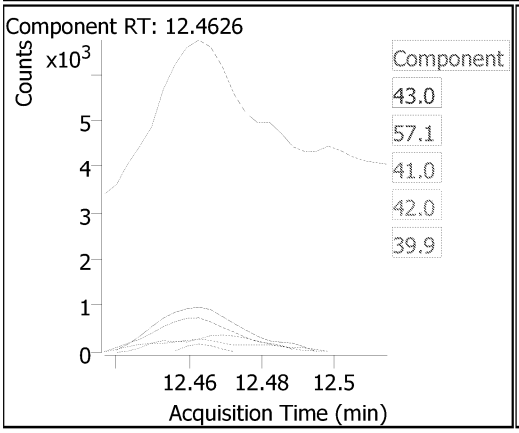
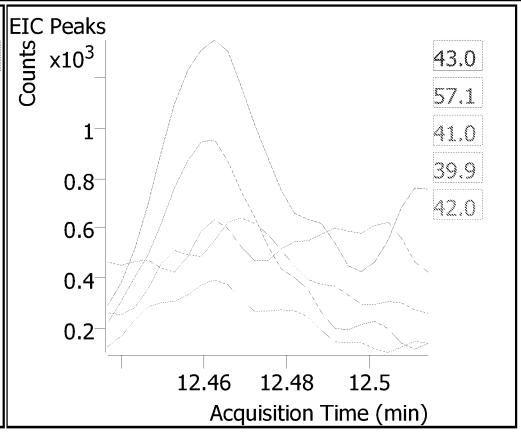
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.4626 | Heptane, 2,3,6-trimethyl- | 10401.6 | 83.3 | 4032-93-3 | C10H22 | 0.02169 |

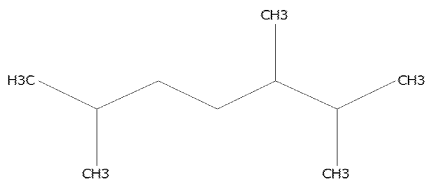


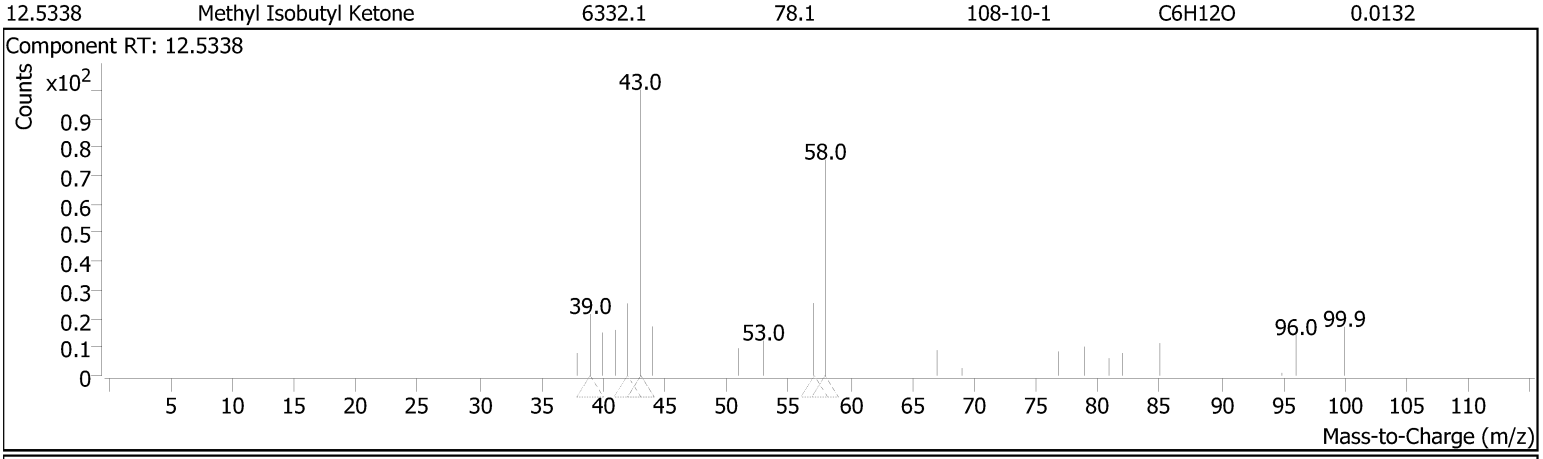



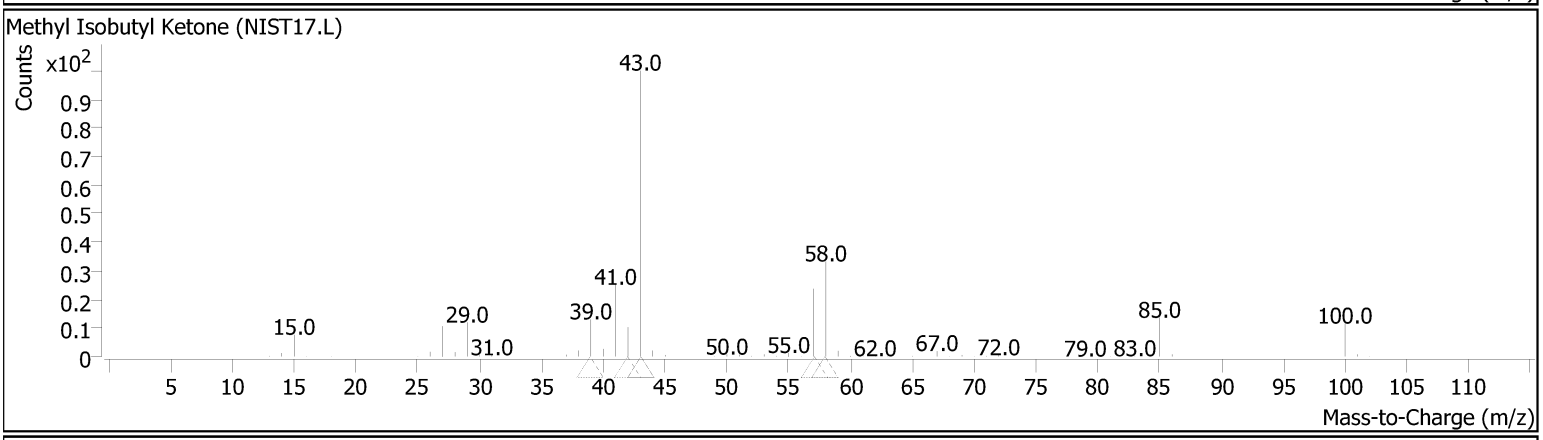



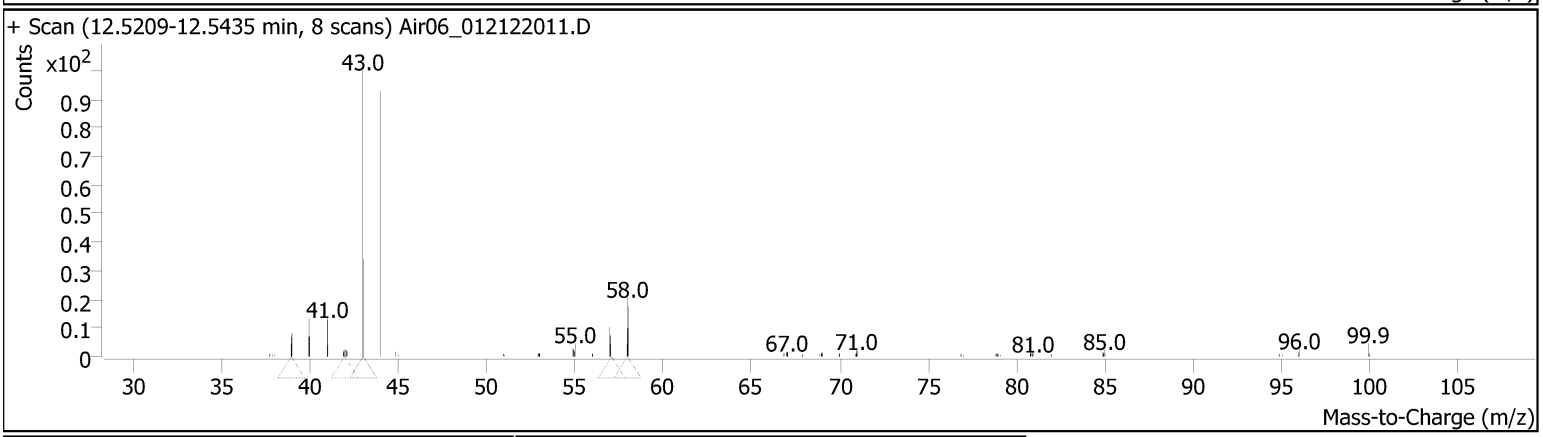



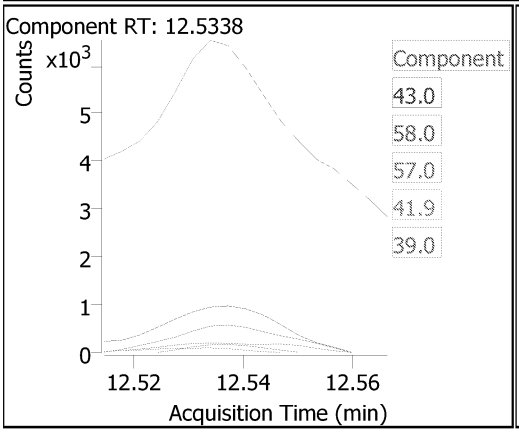



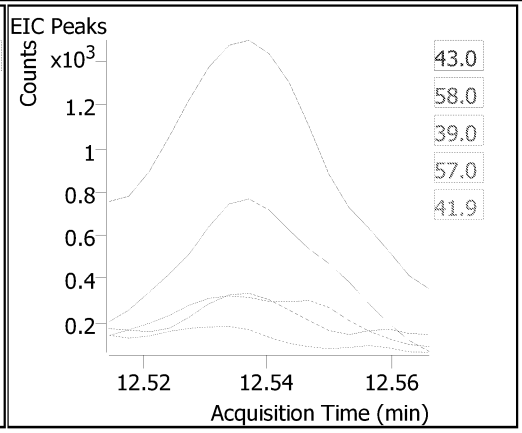
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.5338 | Methyl Isobutyl Ketone | 6332.1 | 78.1 | 108-10-1 | C6H12O | 0.0132 |

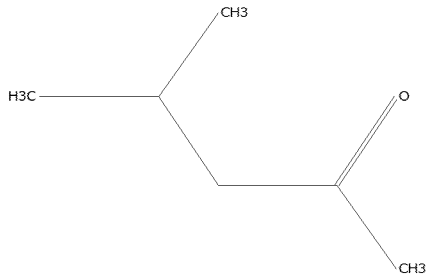


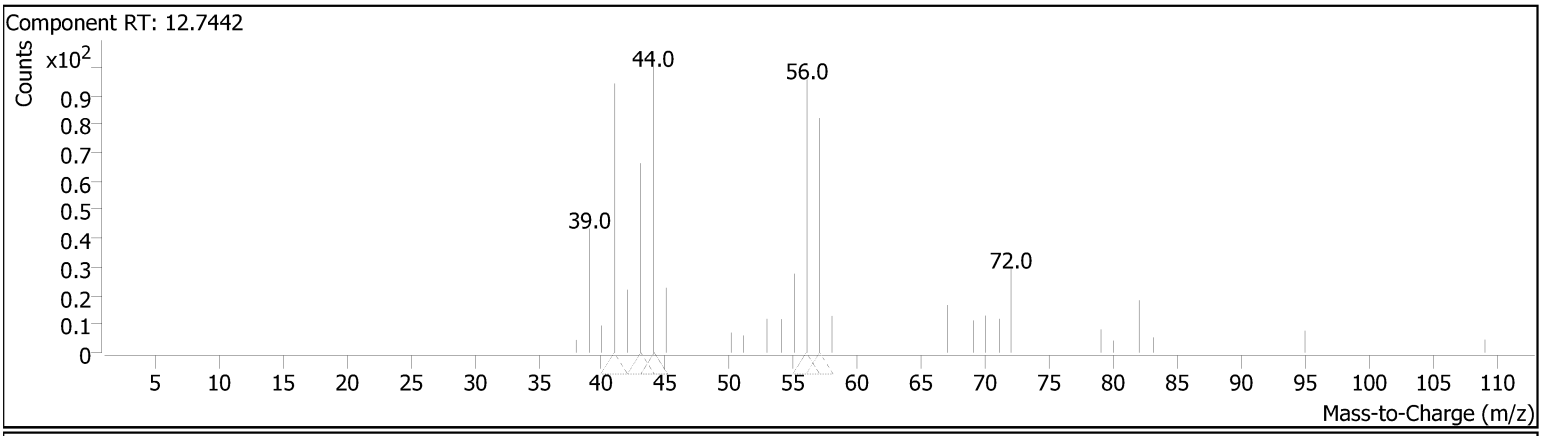



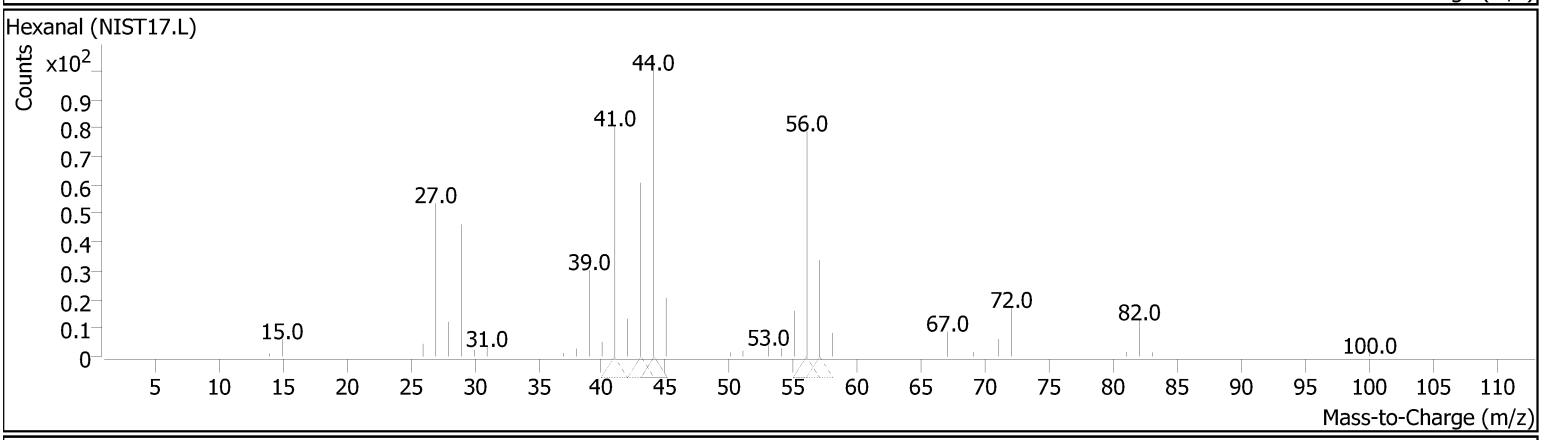



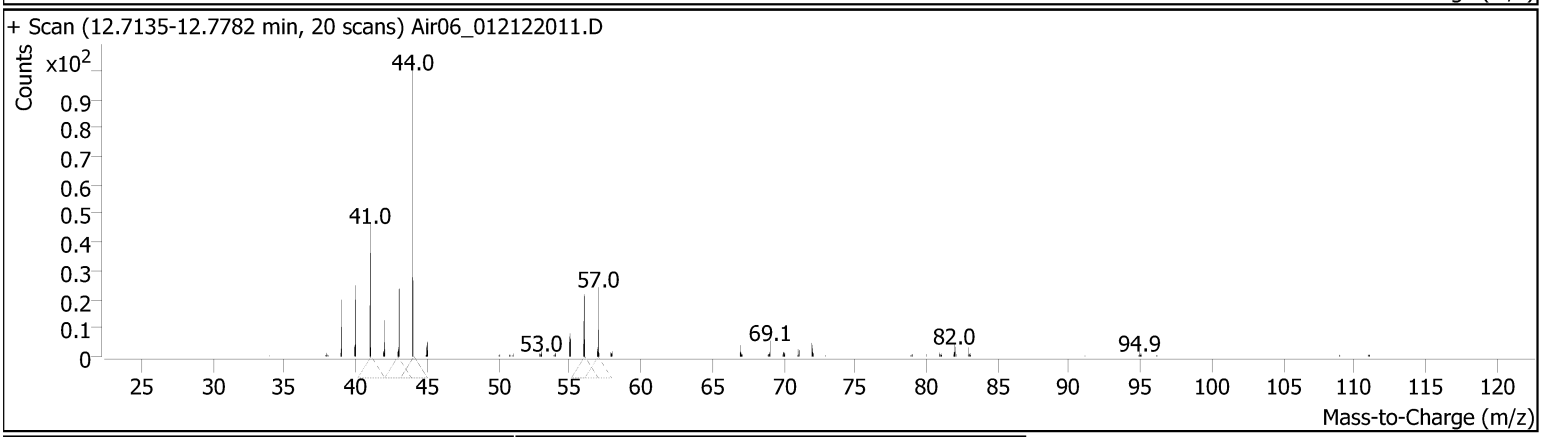



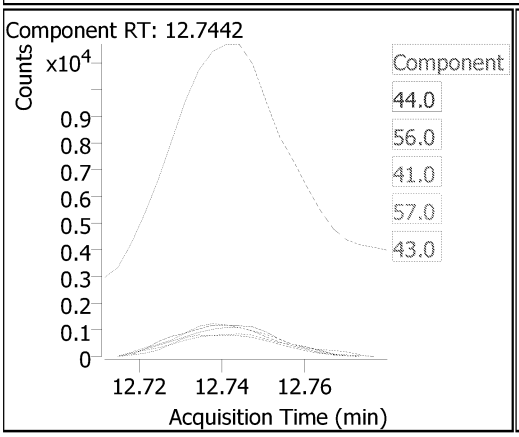



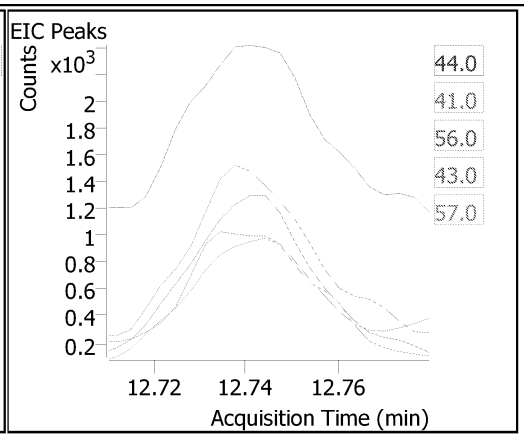
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.7442 | Hexanal | 17520.4 | 91.0 | 66-25-1 | C6H12O | 0.03653 |



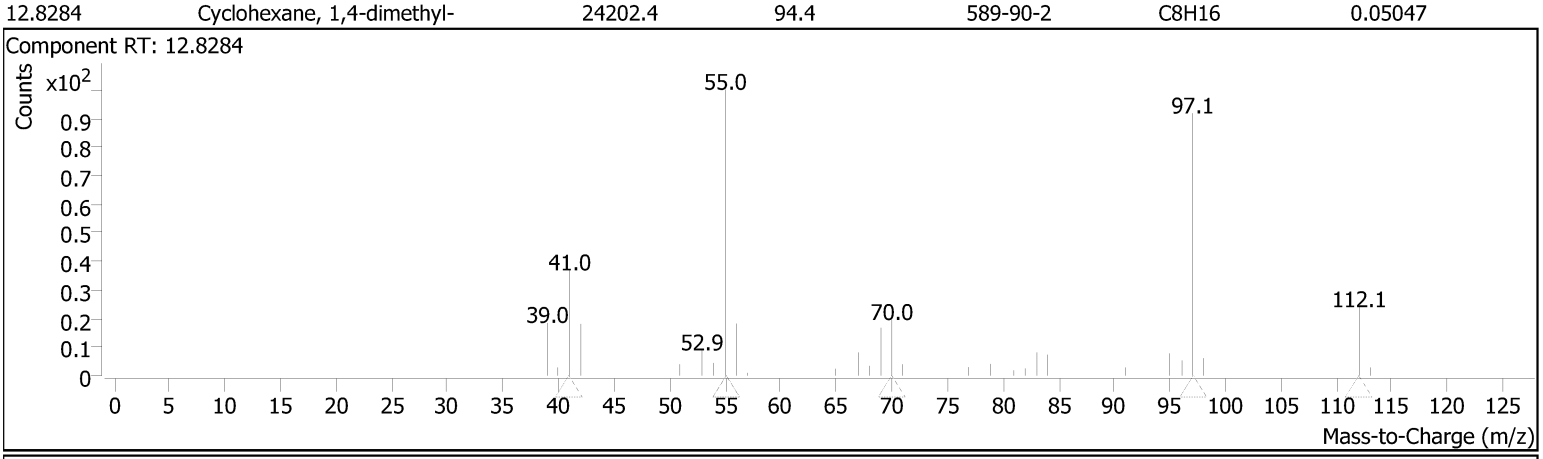



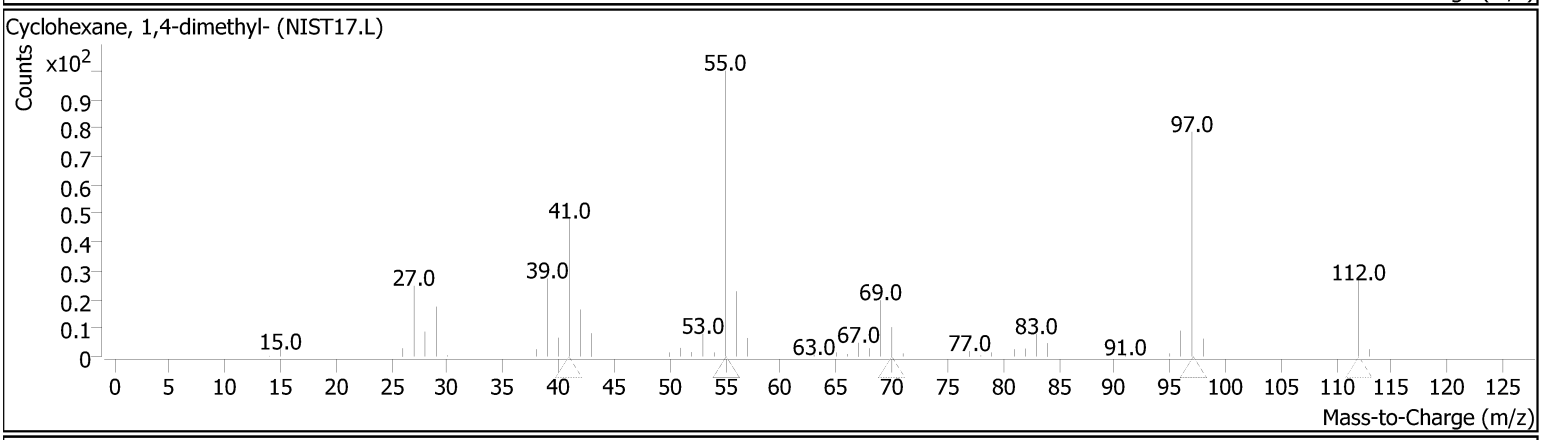



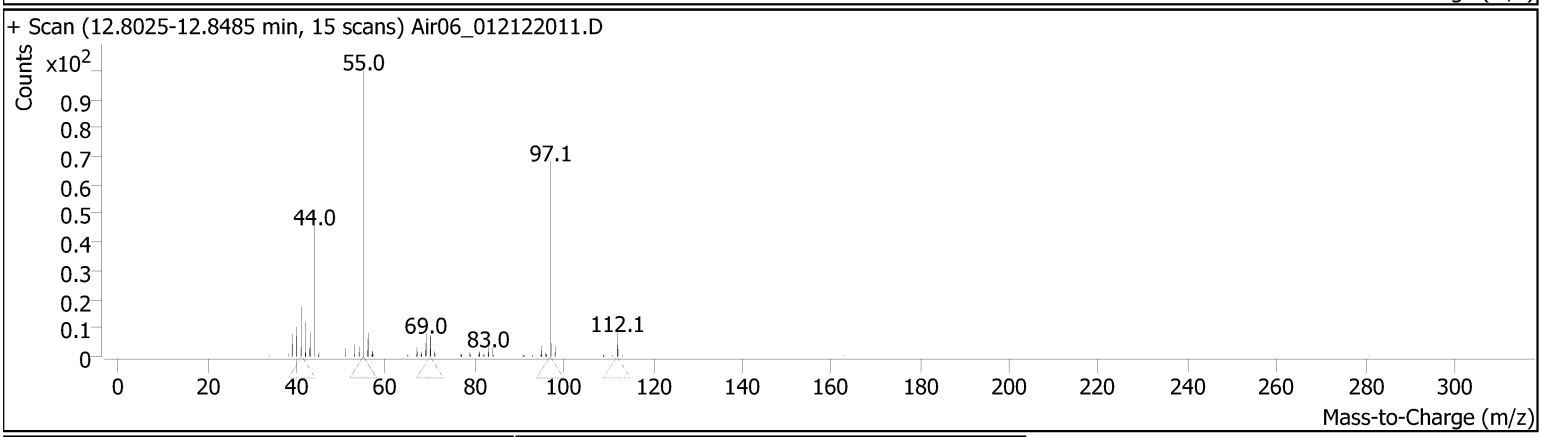



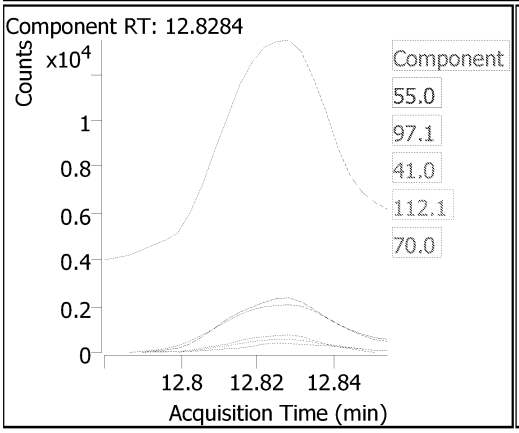


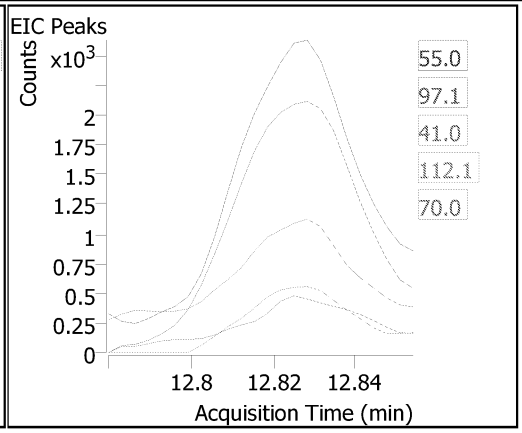

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.8284 | Cyclohexane, 1,4-dimethyl- | 24202.4 | 94.4 | 589-90-2 | C8H16 | 0.05047 |

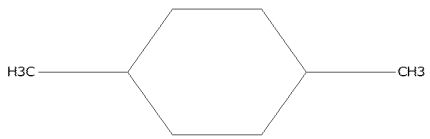


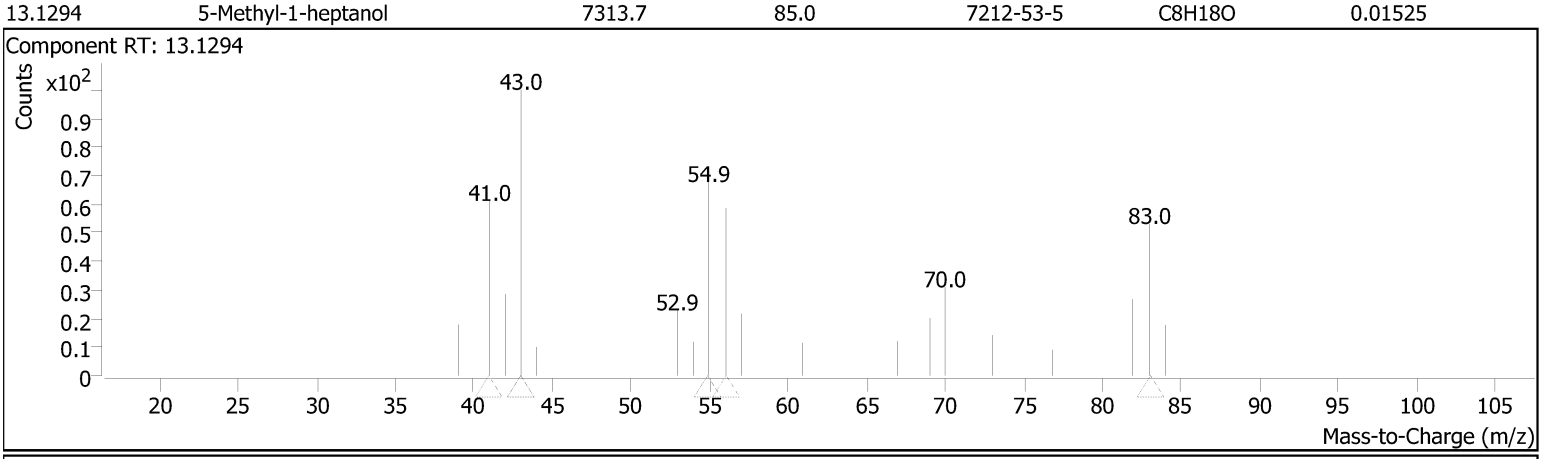



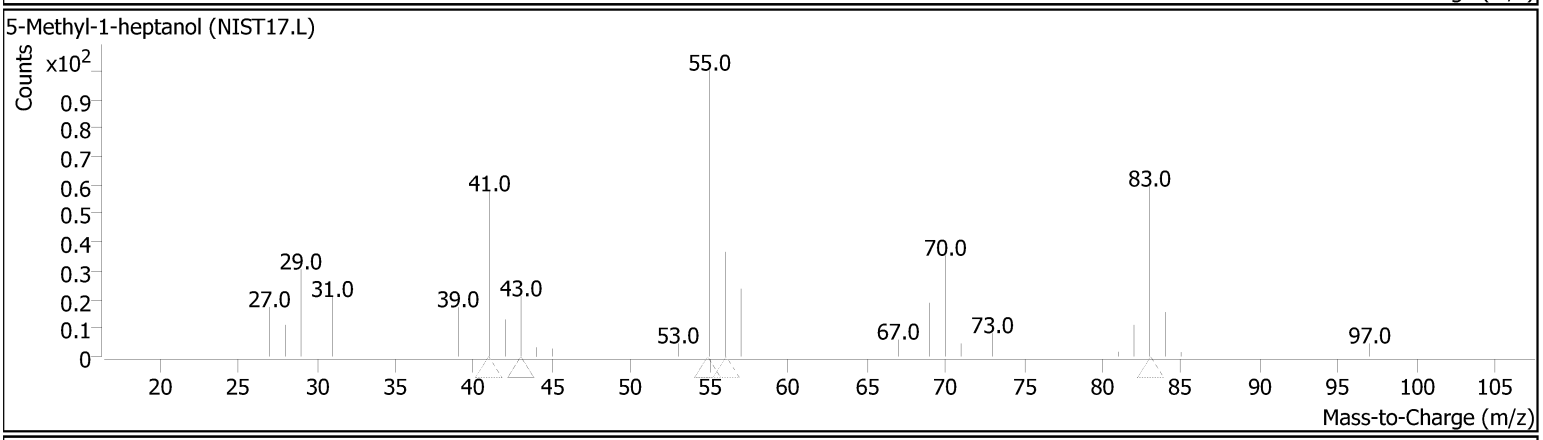



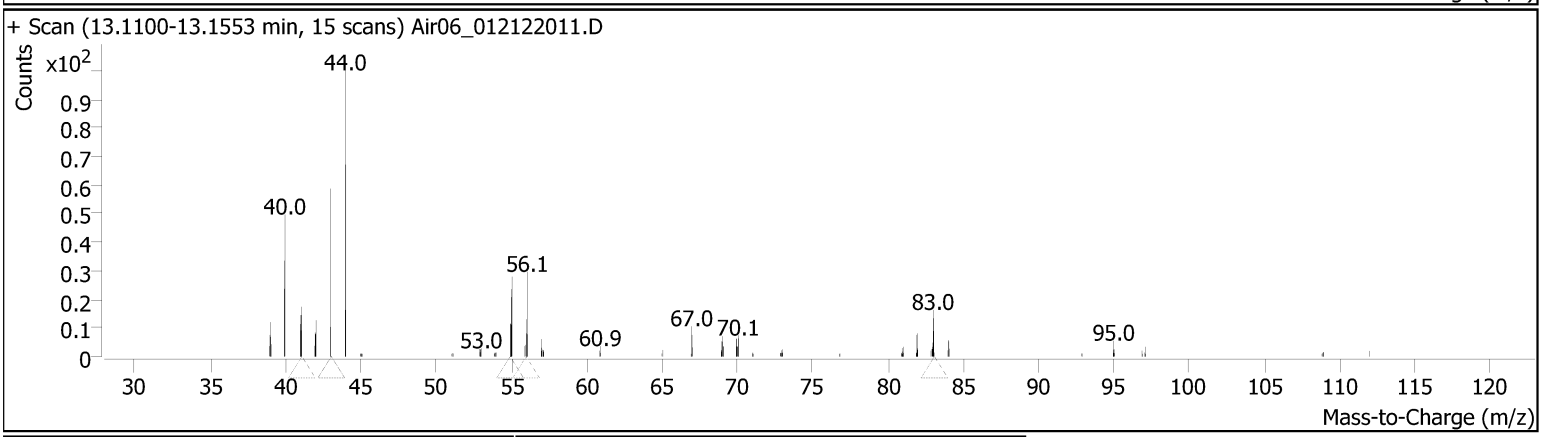



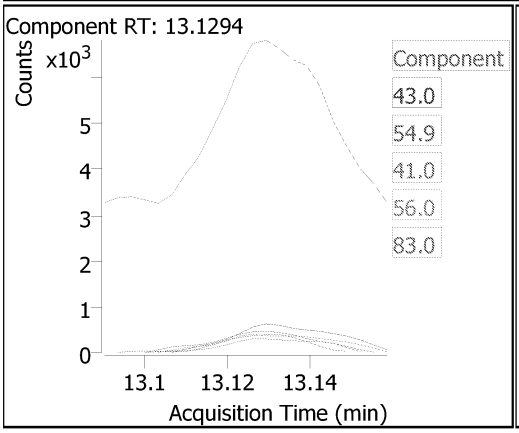



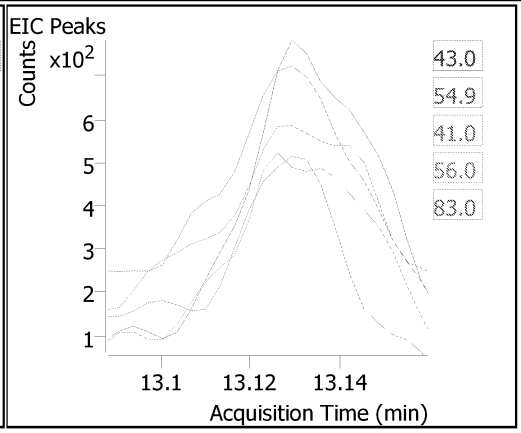
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.1294 | 5-Methyl-1-heptanol | 7313.7 | 85.0 | 7212-53-5 | C8H18O | 0.01525 |

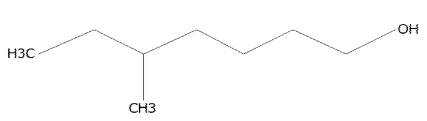


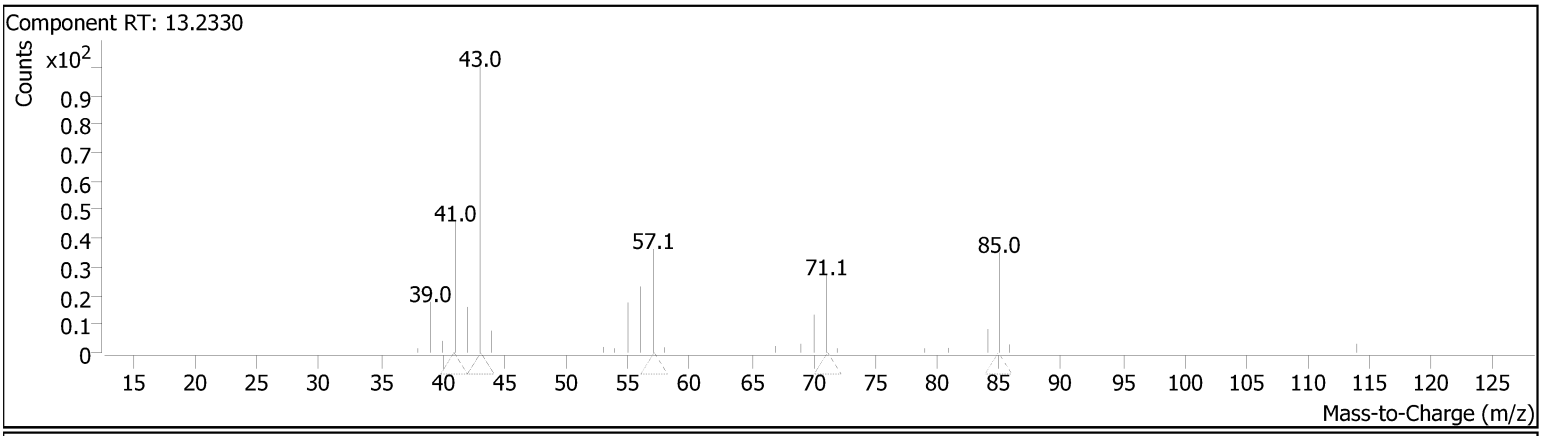



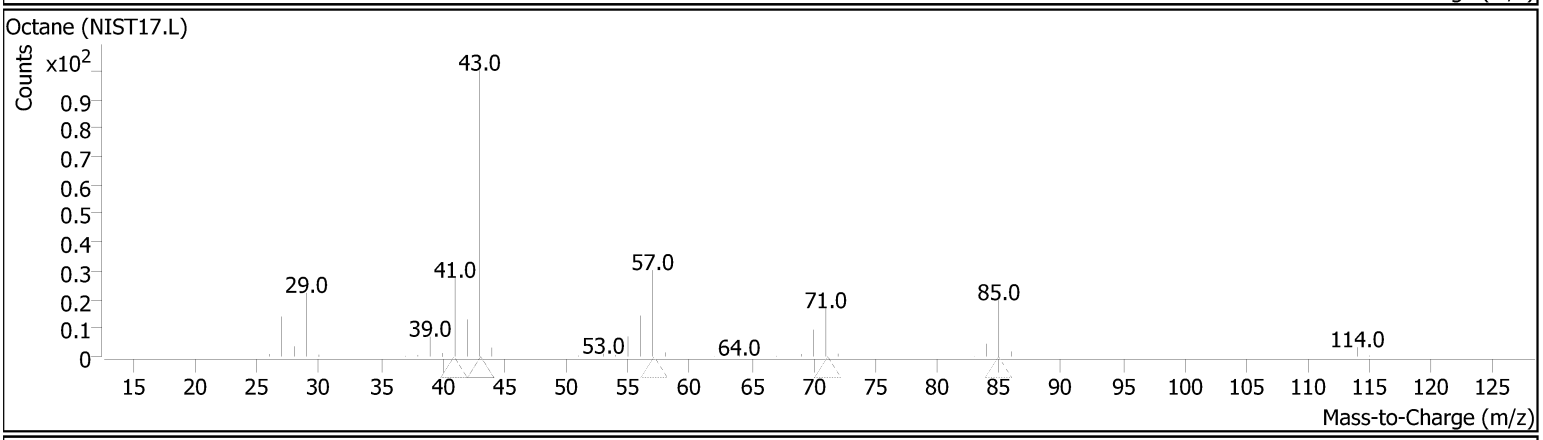



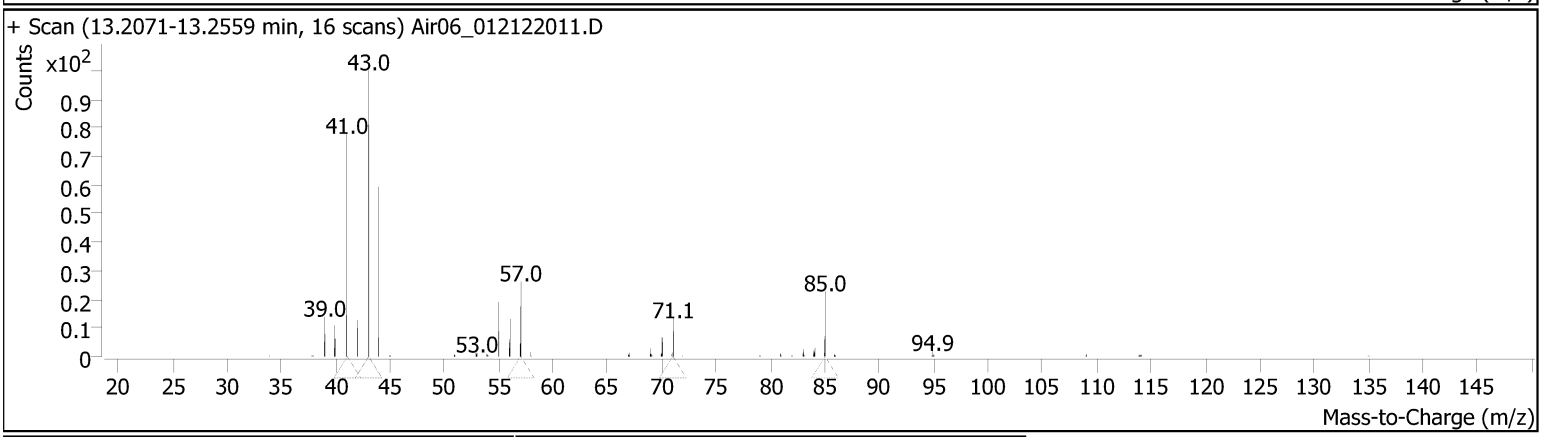



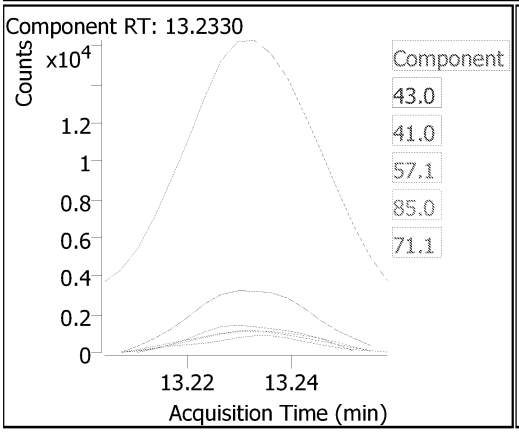



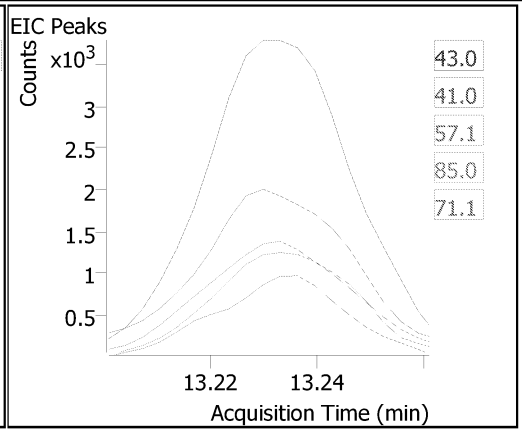
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.2330 | Octane | 23278.7 | 96.9 | 111-65-9 | C8H18 | 0.04854 |



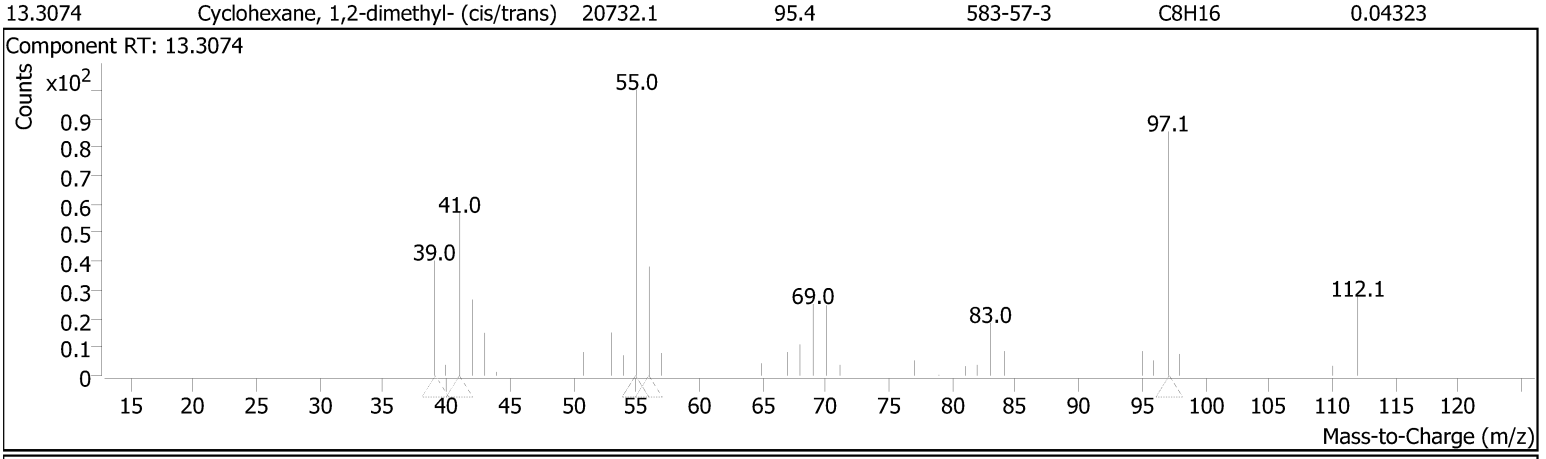



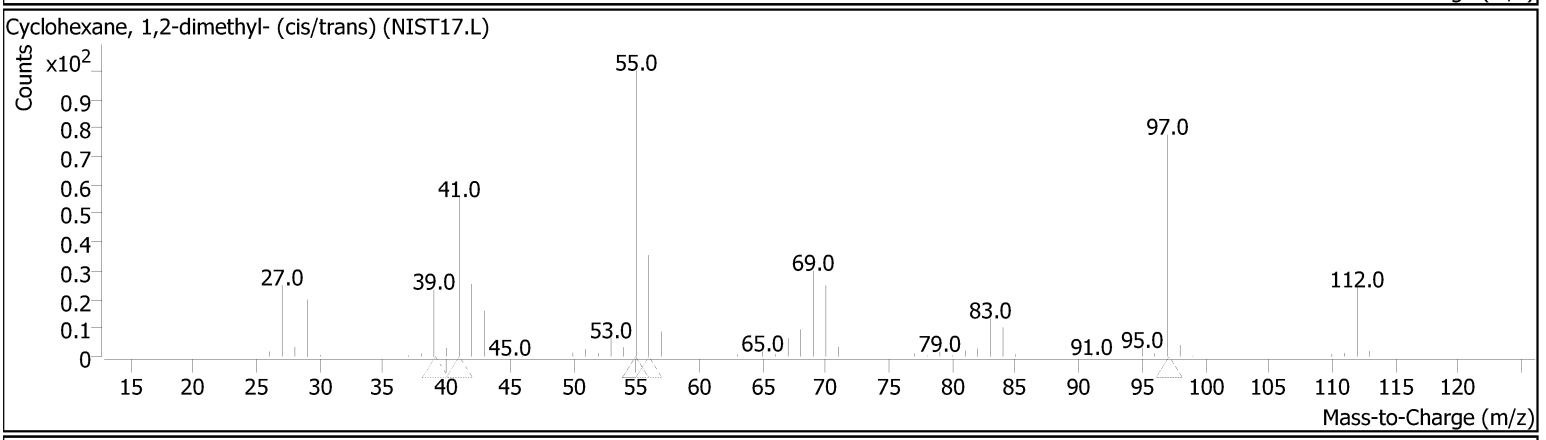



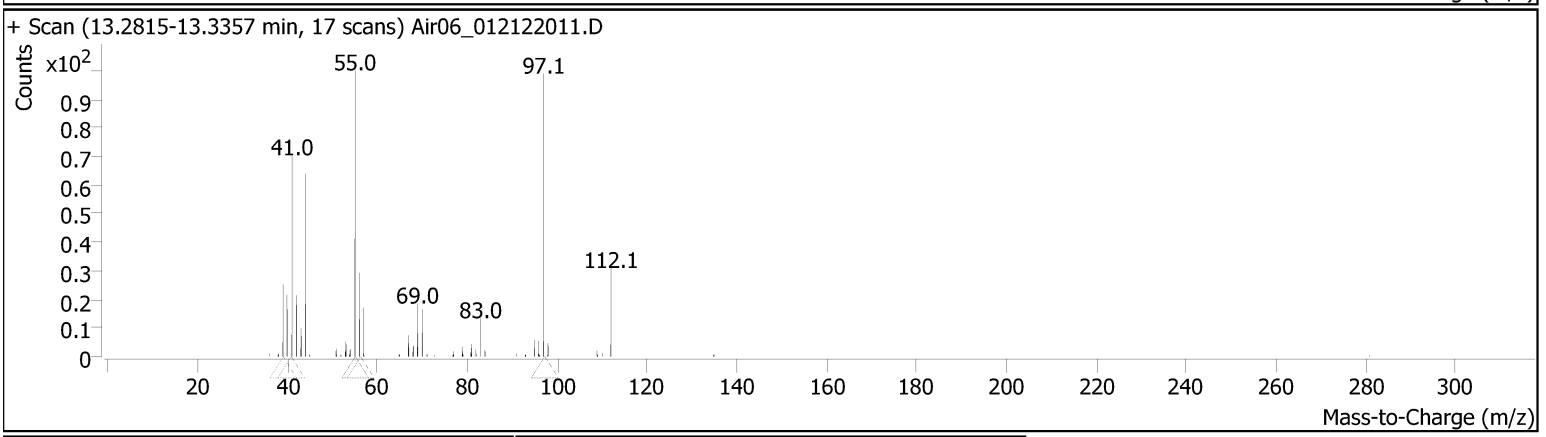



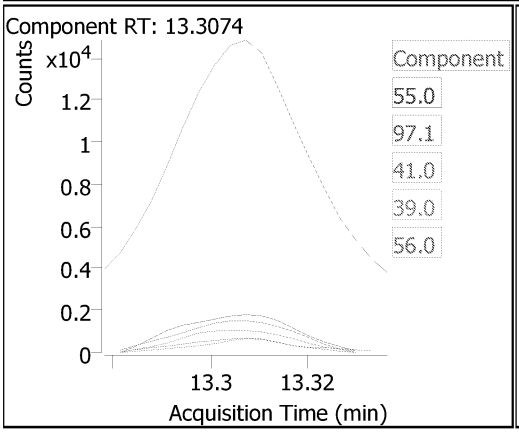


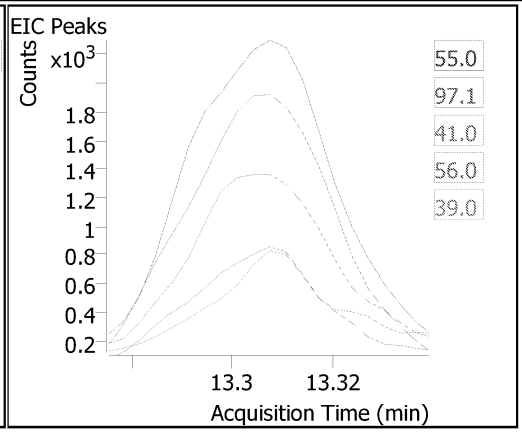

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3074 | Cyclohexane, 1,2-dimethyl- (cis/trans) | 20732.1 | 95.4 | 583-57-3 | C8H16 | 0.04323 |

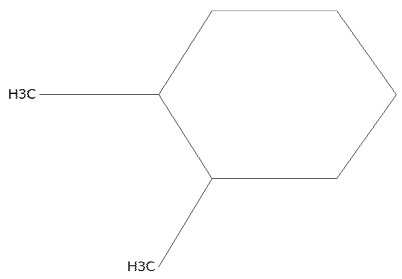


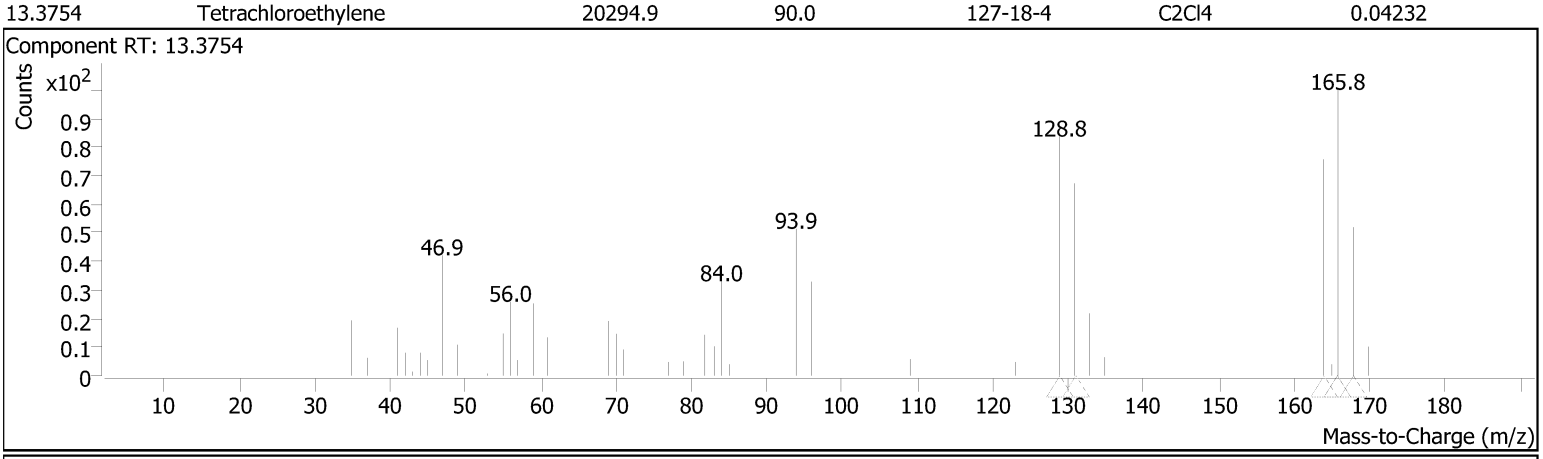



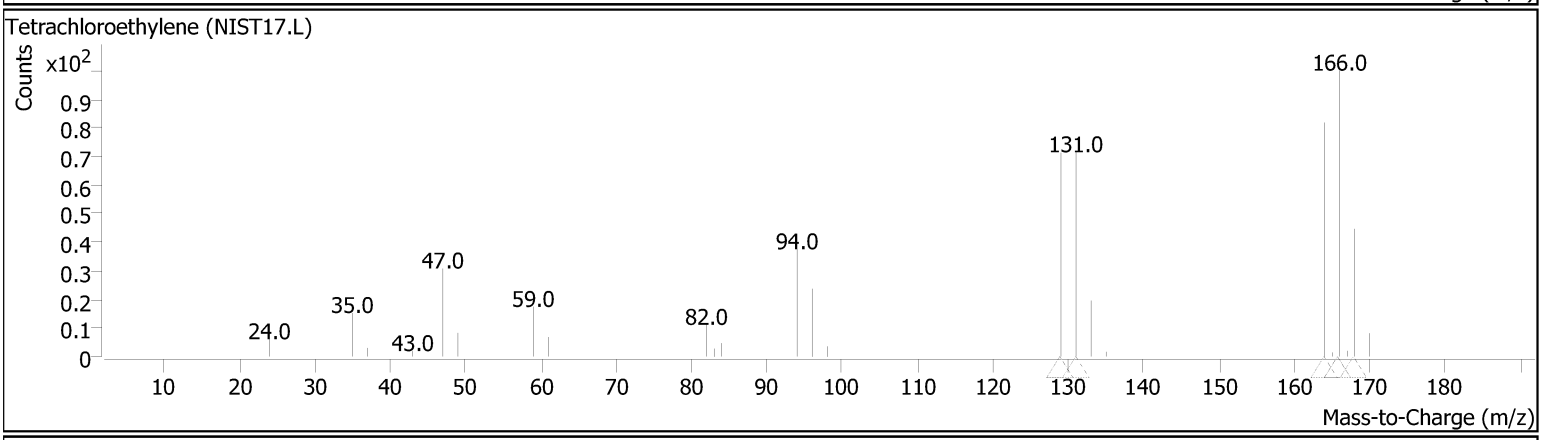



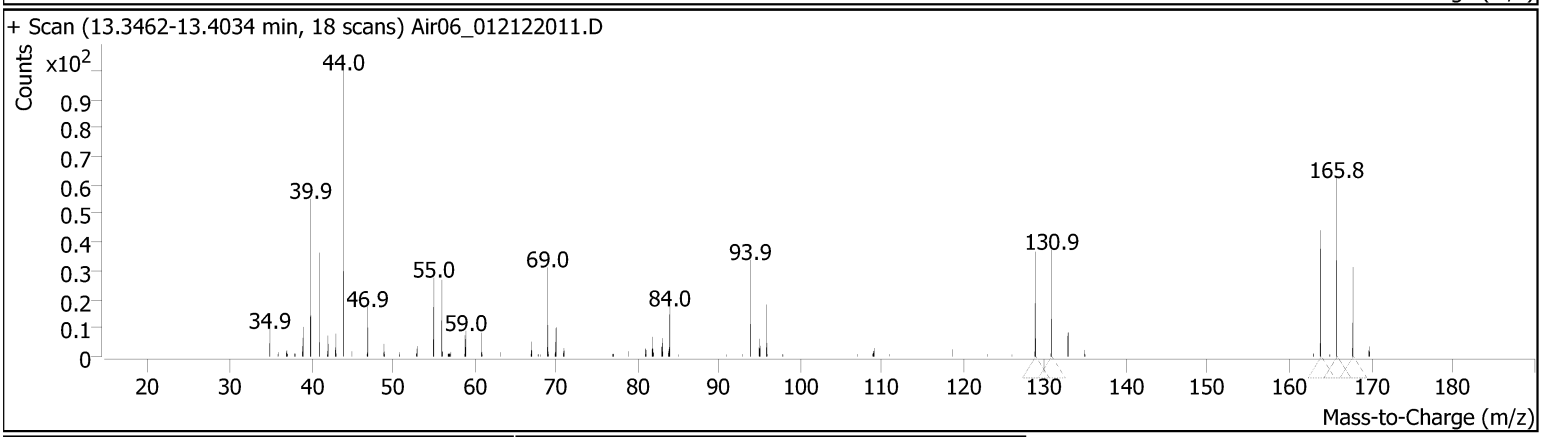



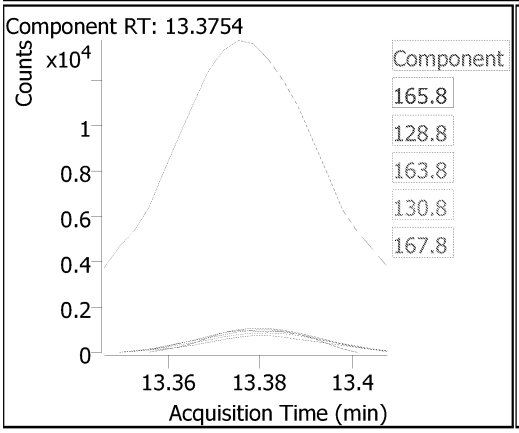



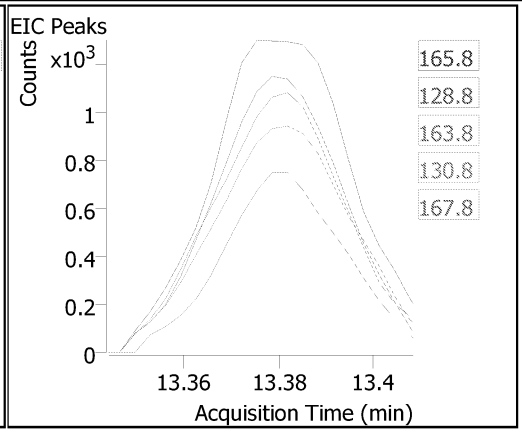
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3754 | Tetrachloroethylene | 20294.9 | 90.0 | 127-18-4 | C2Cl4 | 0.04232 |

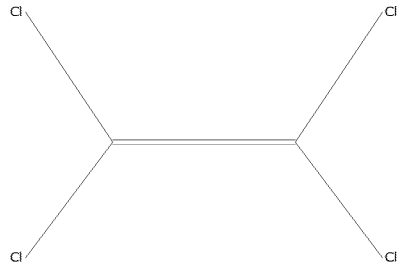


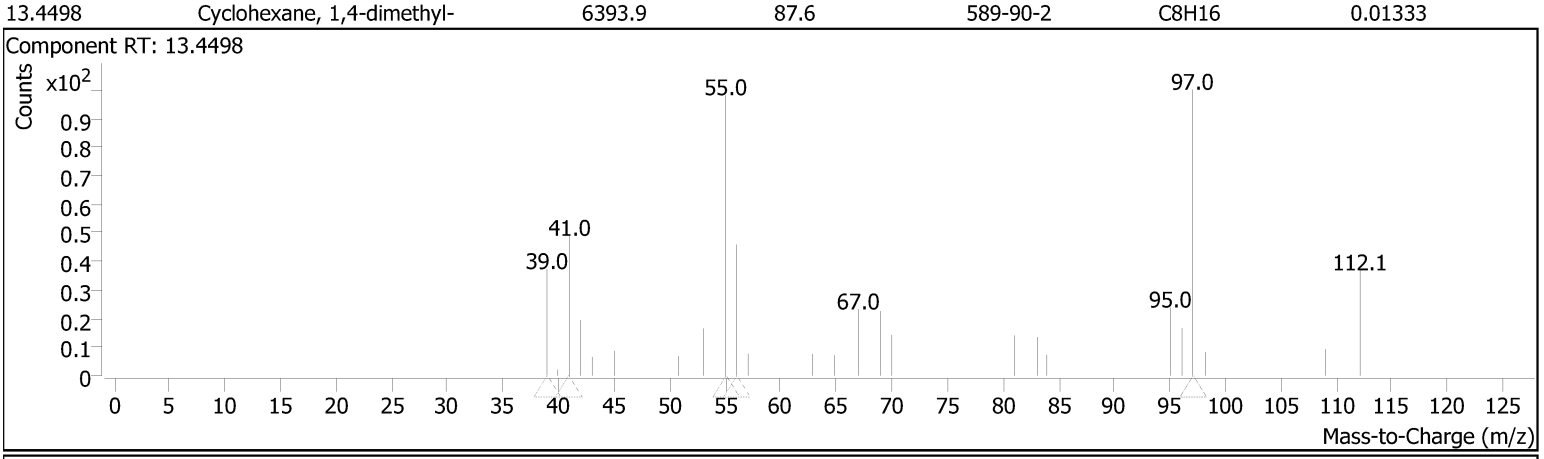



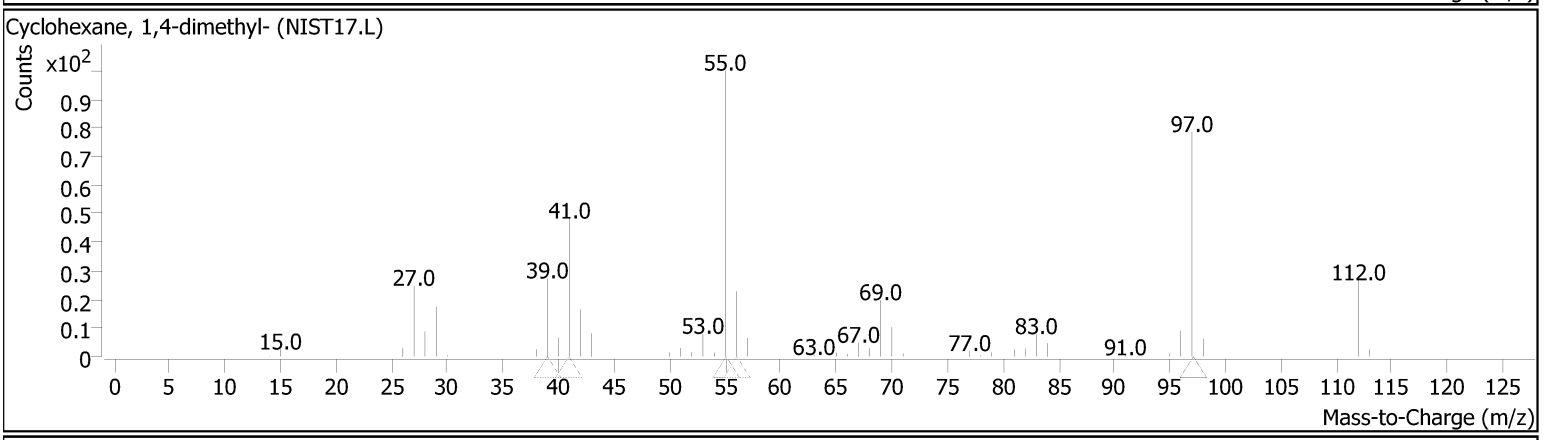



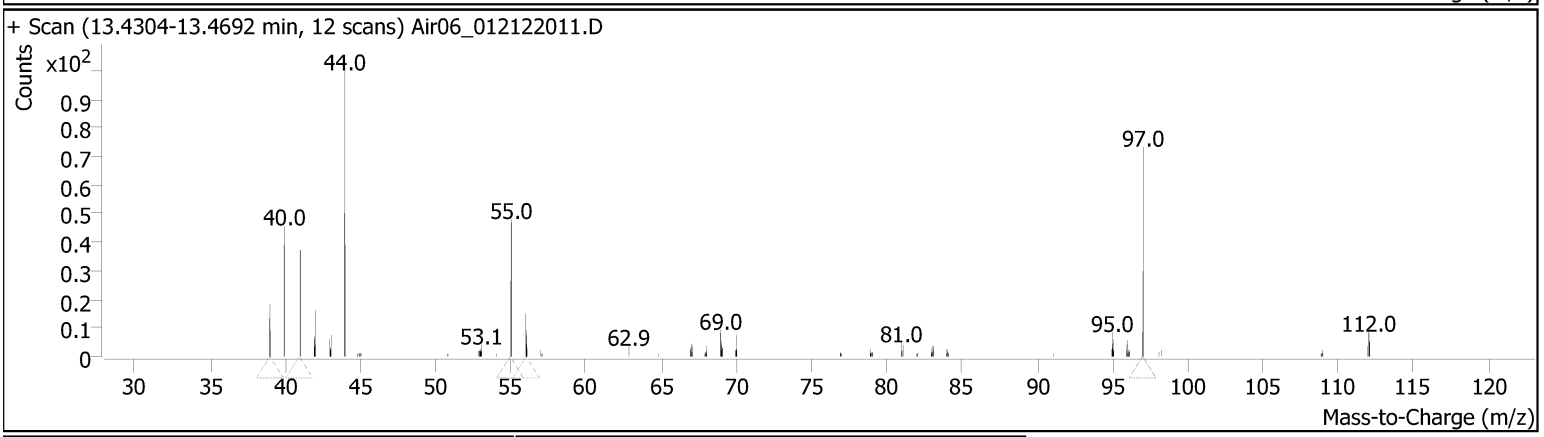



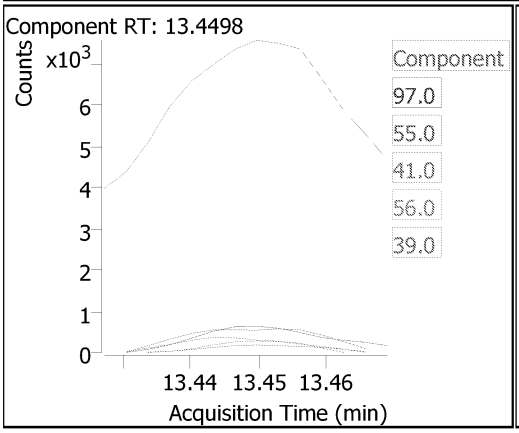



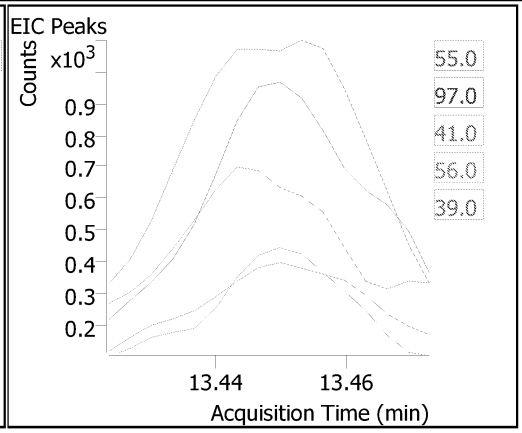
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.4498 | Cyclohexane, 1,4-dimethyl- | 6393.9 | 87.6 | 589-90-2 | C8H16 | 0.01333 |

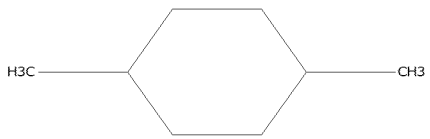


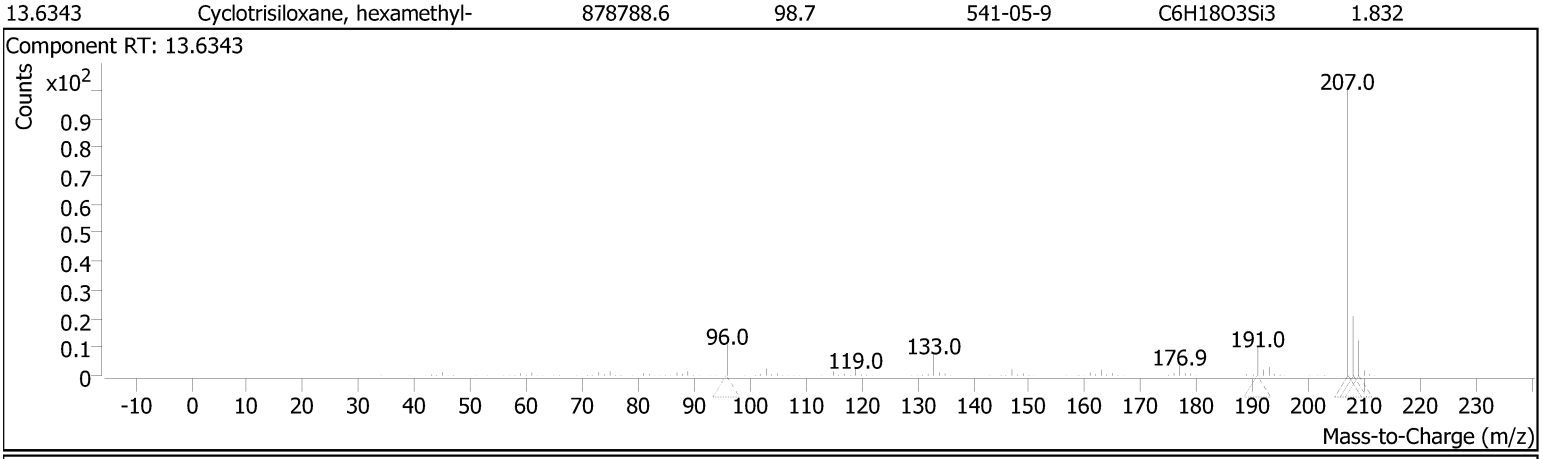



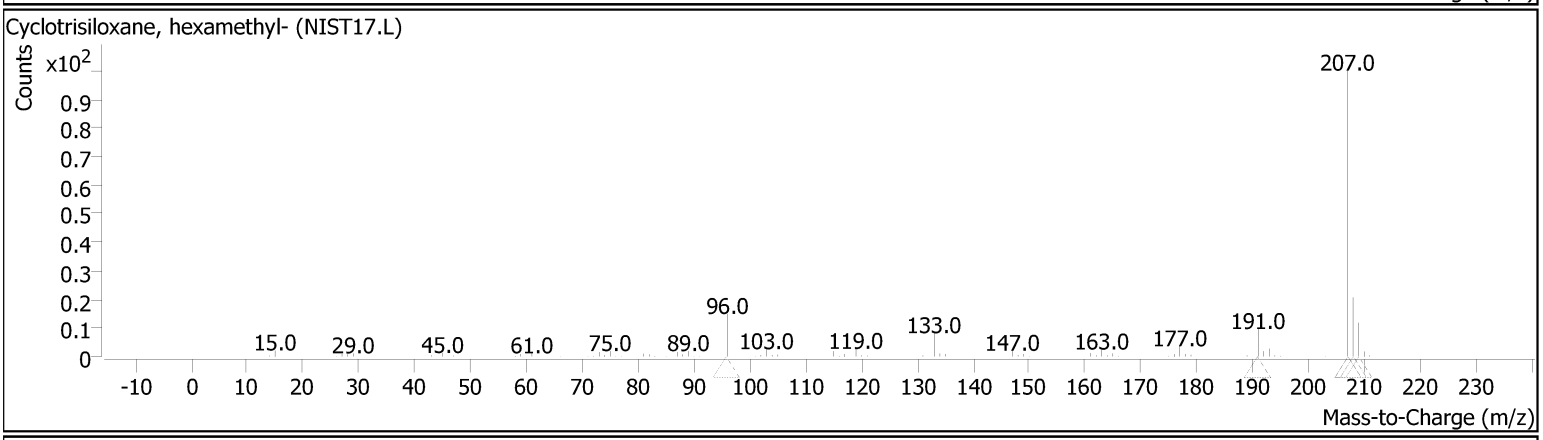



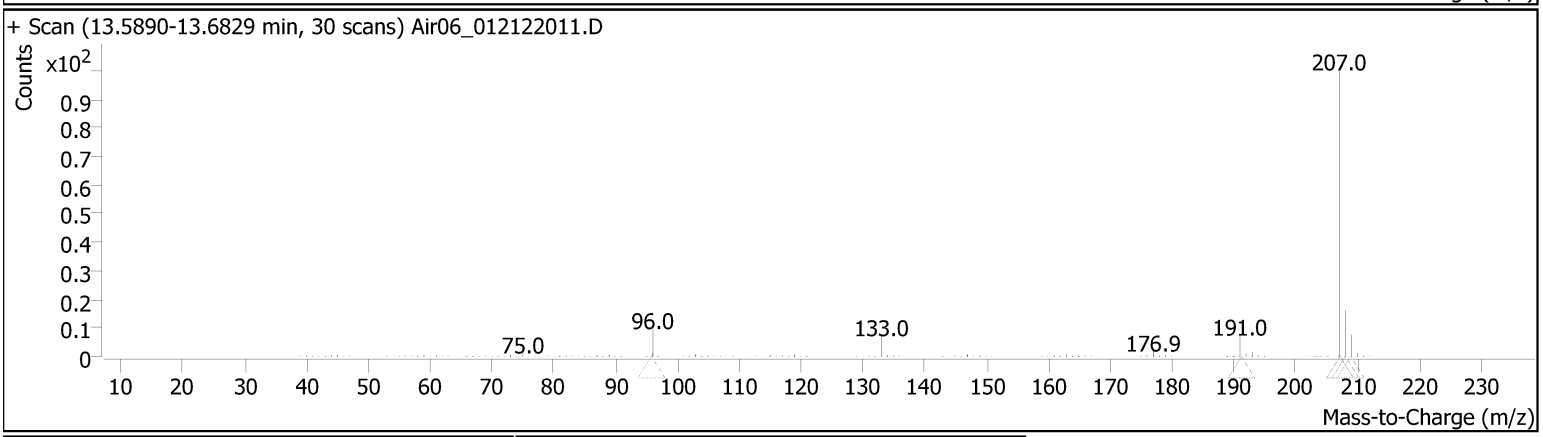



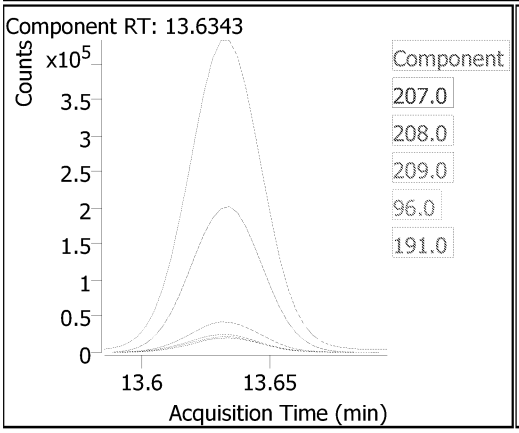



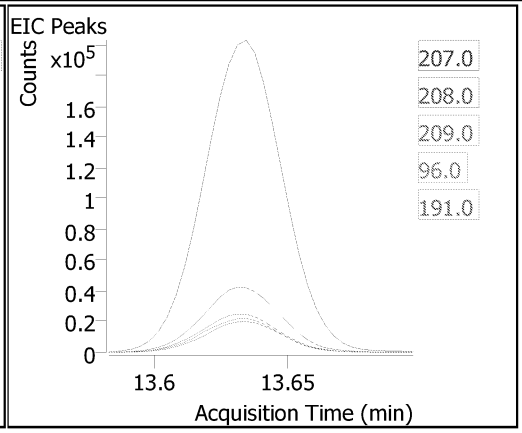
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.6343 | Cyclotrisiloxane, hexamethyl- | 878788.6 | 98.7 | 541-05-9 | C6H18O3Si3 | 1.832 |

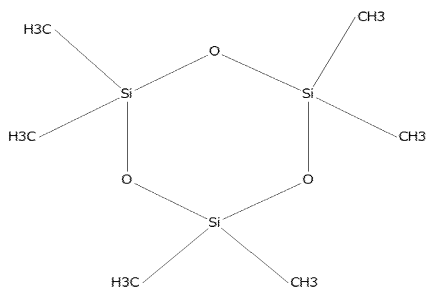


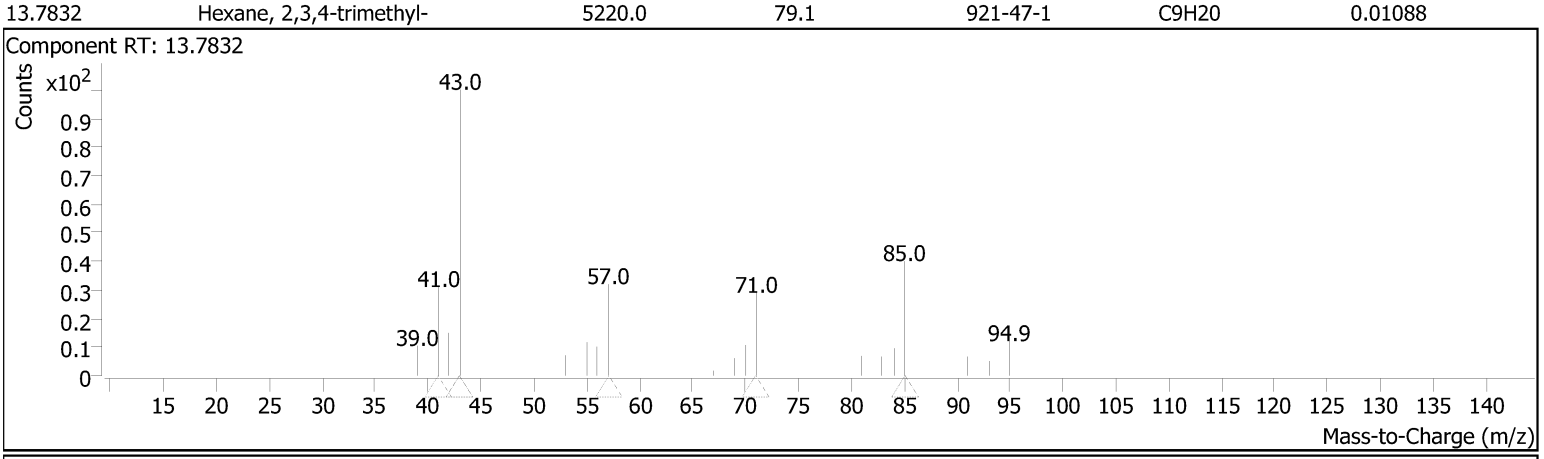



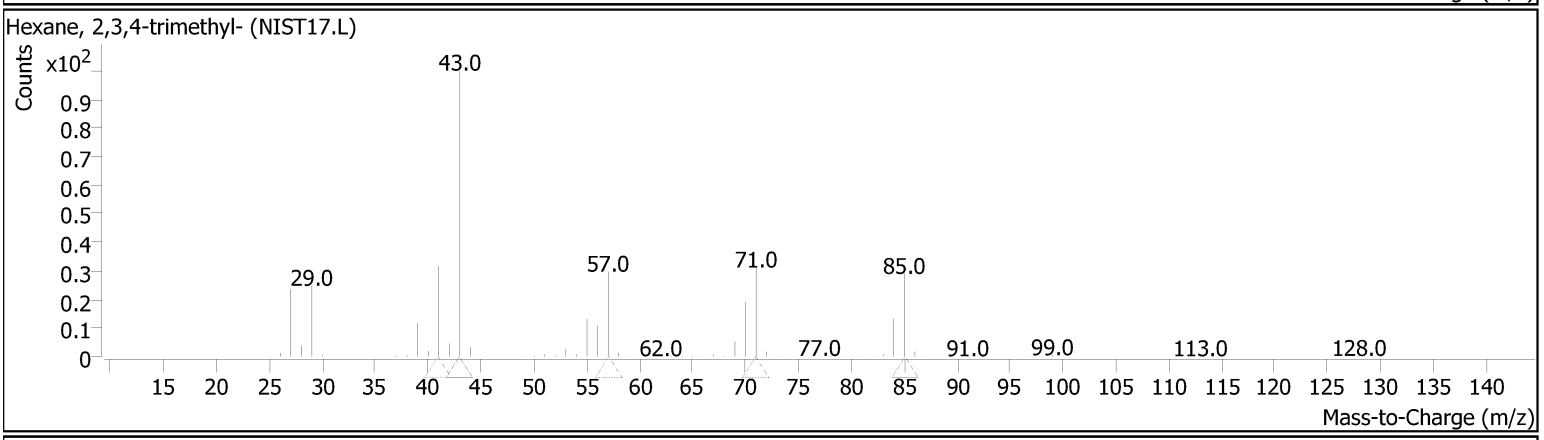



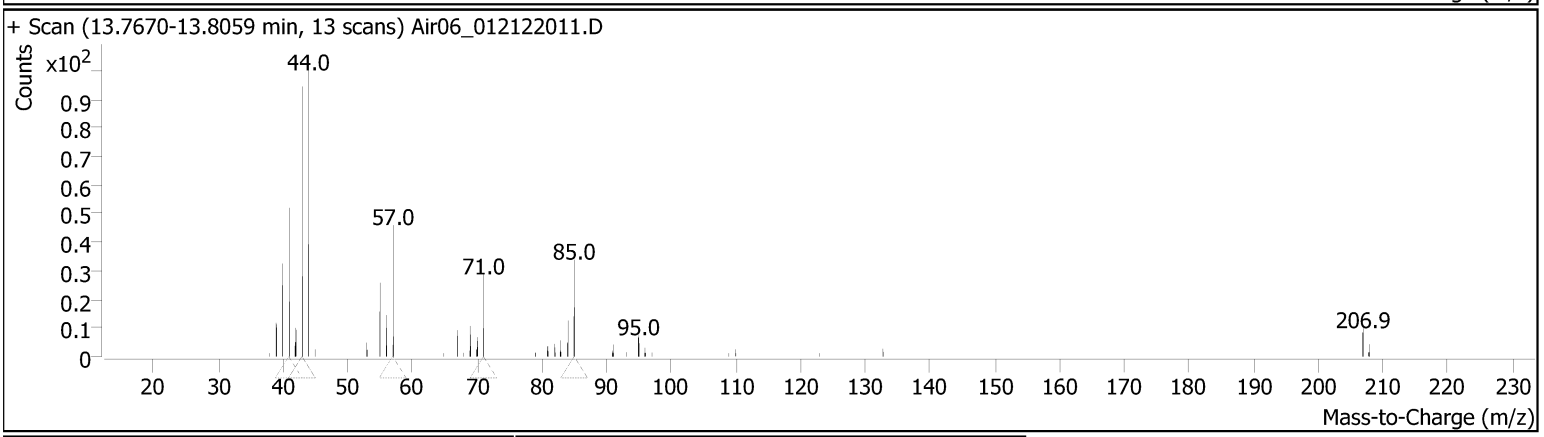



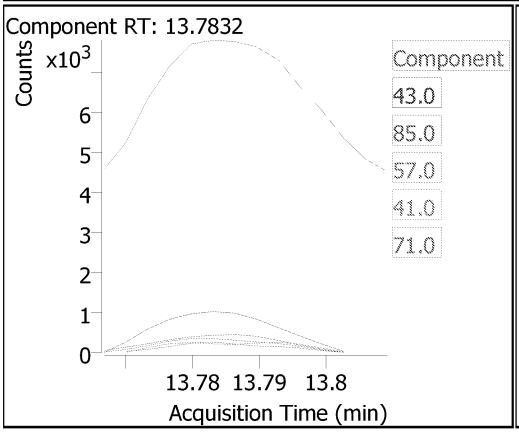



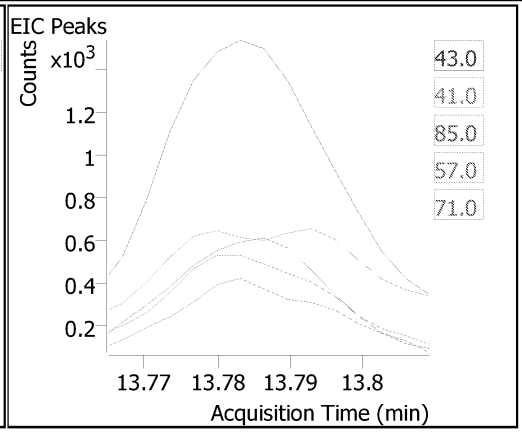
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.7832 | Hexane, 2,3,4-trimethyl- | 5220.0 | 79.1 | 921-47-1 | C9H20 | 0.01088 |

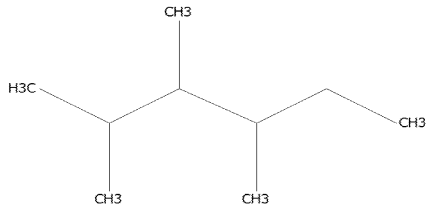


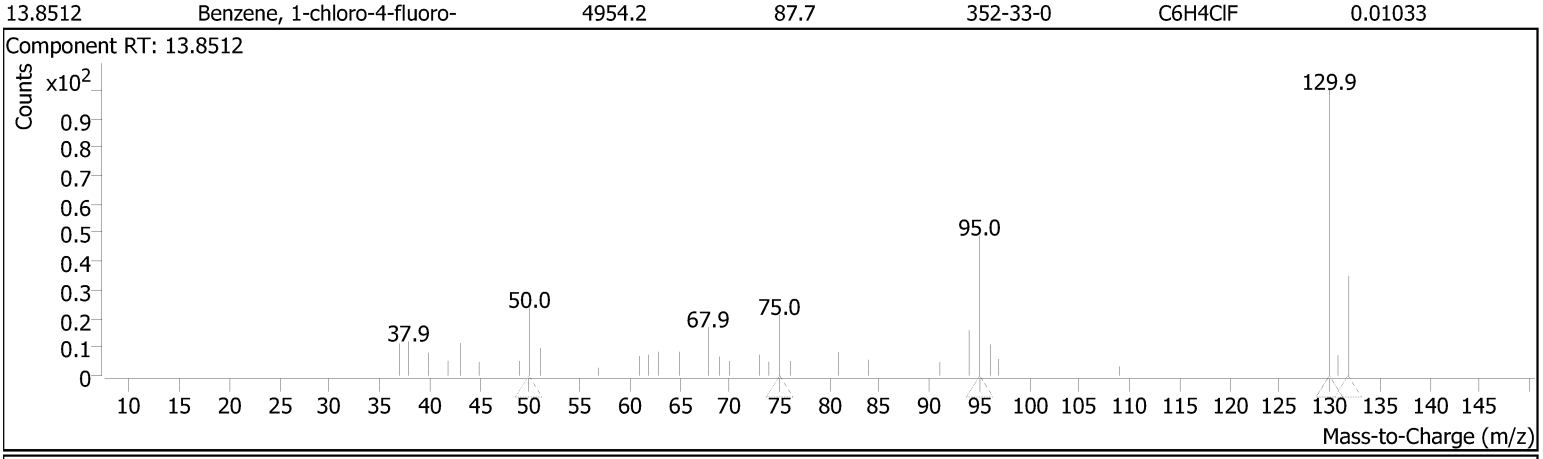



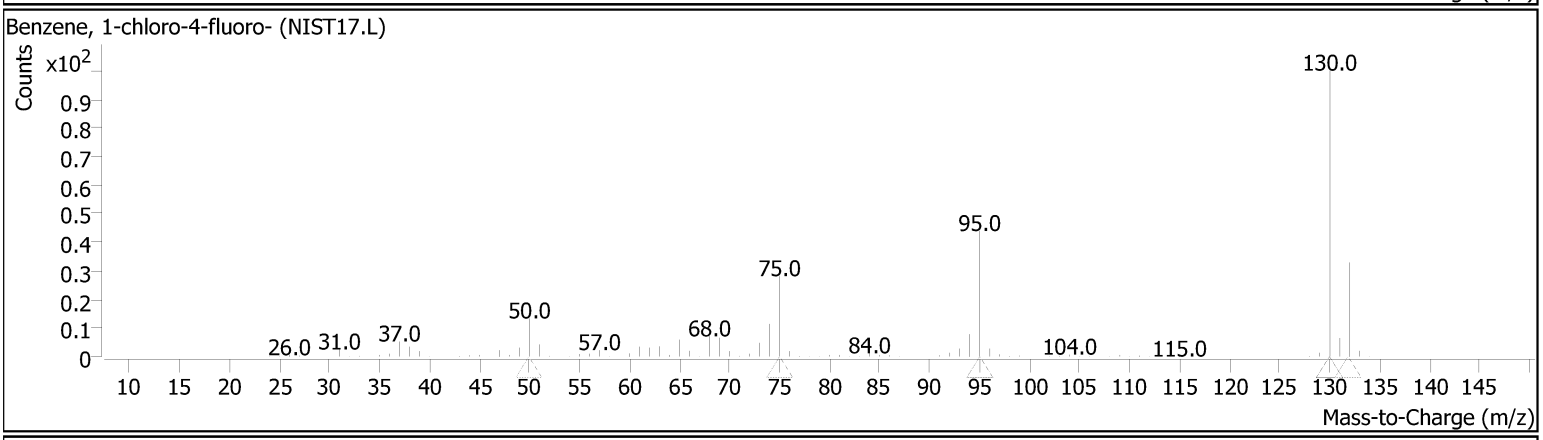



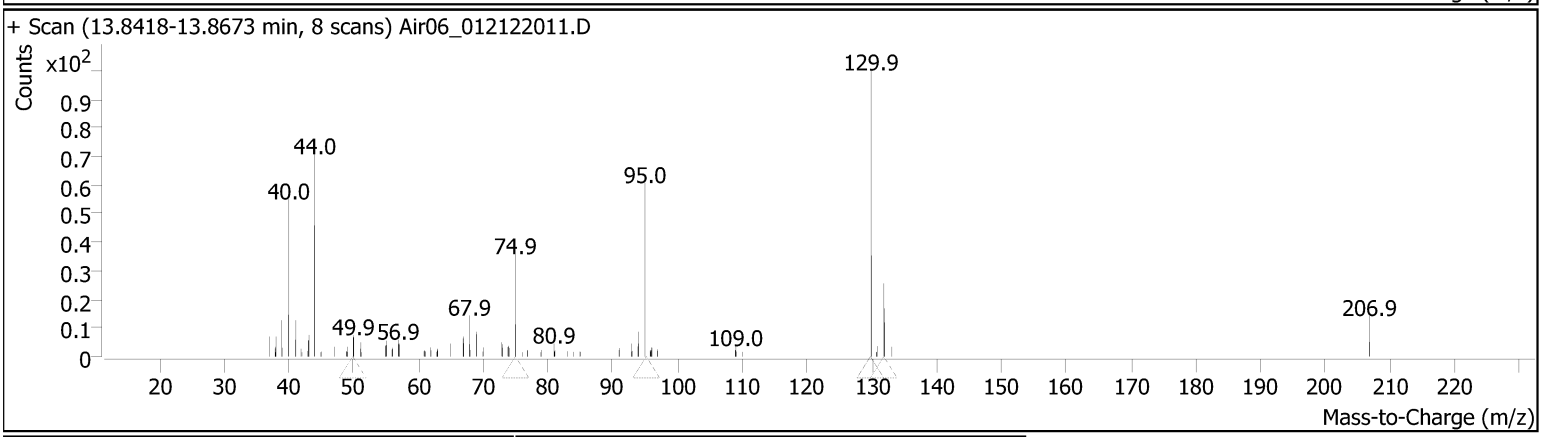



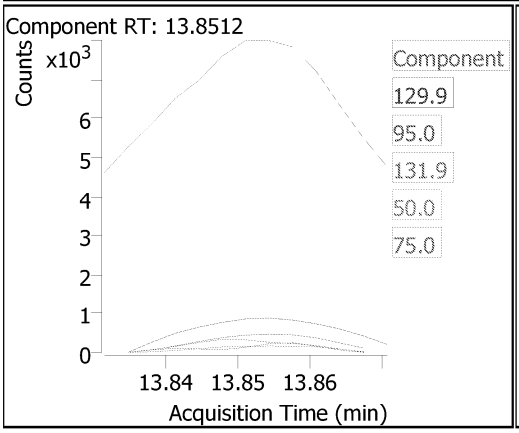



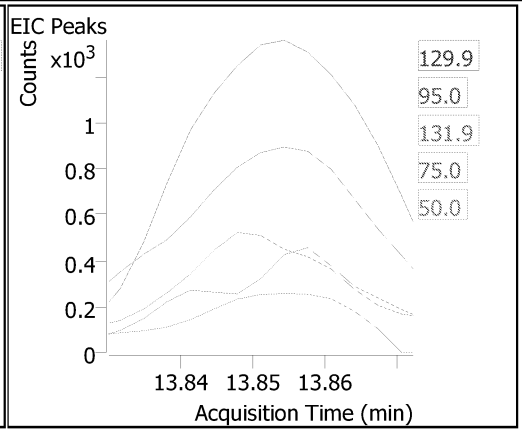
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.8512 | Benzene, 1-chloro-4-fluoro- | 4954.2 | 87.7 | 352-33-0 | C6H4ClF | 0.01033 |

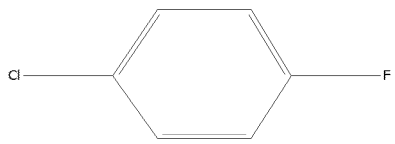


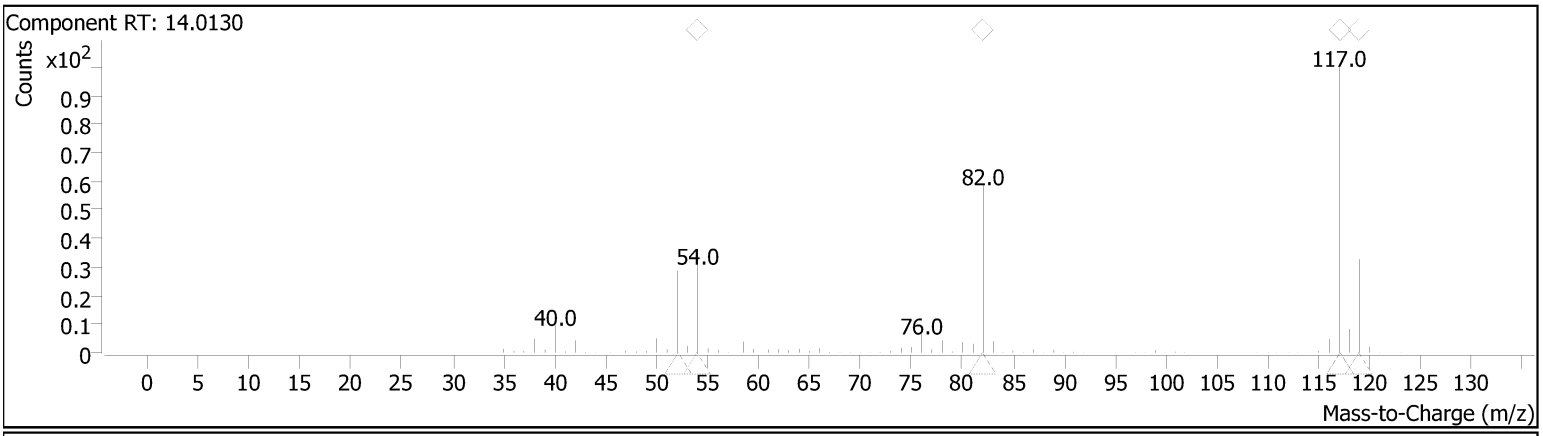



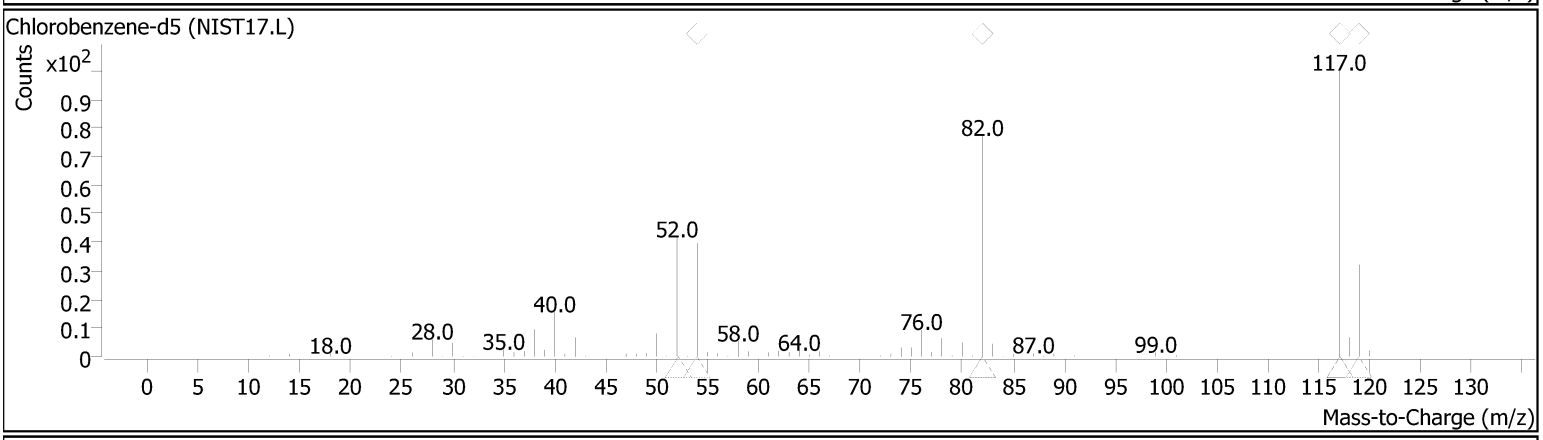



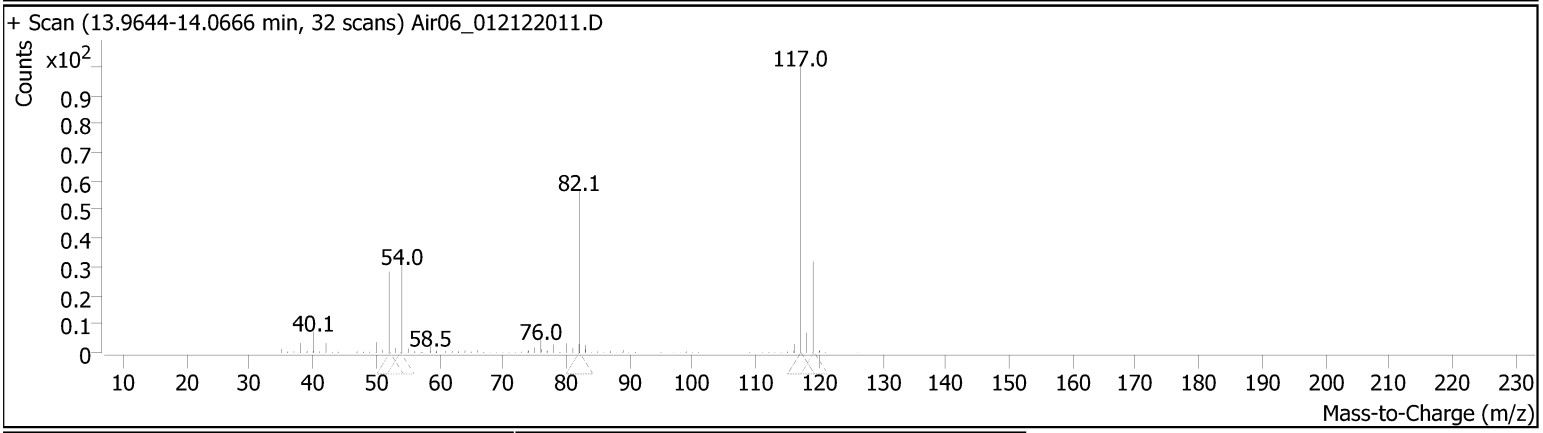



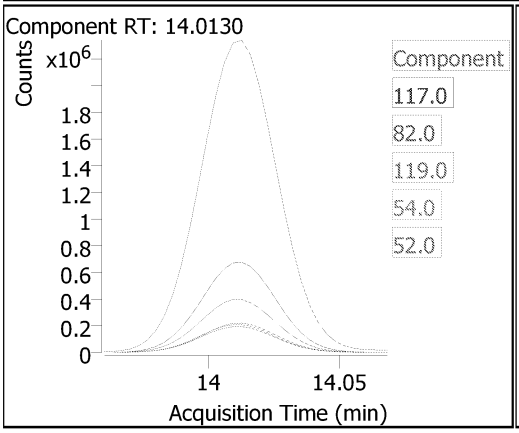



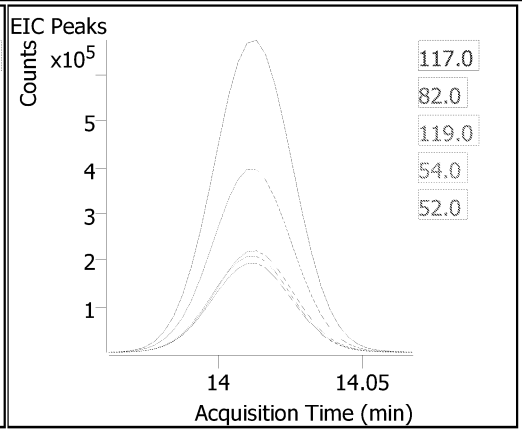
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0130 | Chlorobenzene-d5 | 4795698.9 | 95.5 | 3114-55-4 | C6D5Cl | 10 |

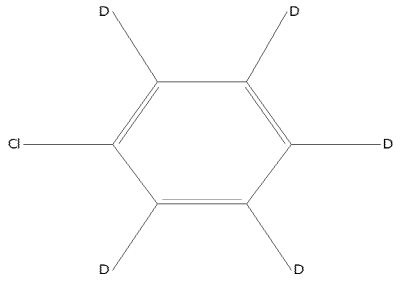


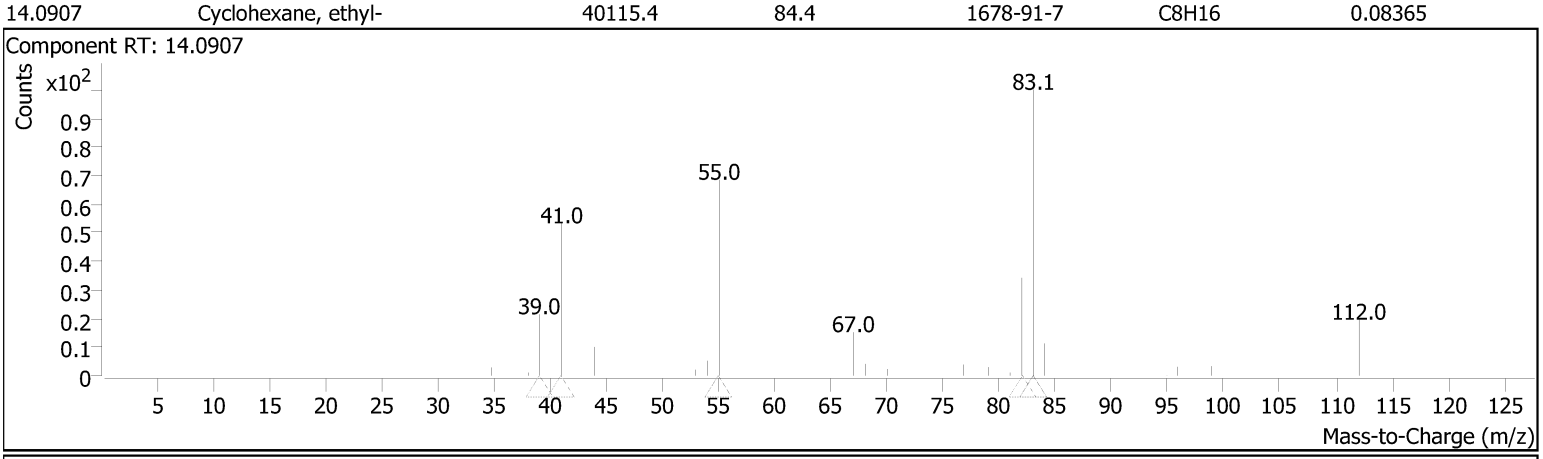



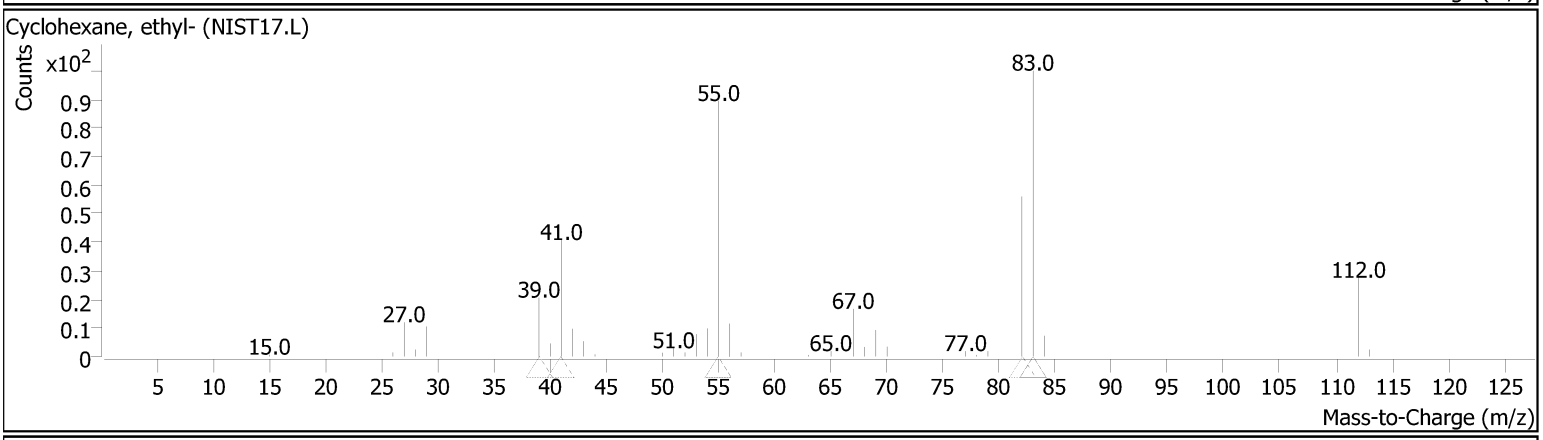



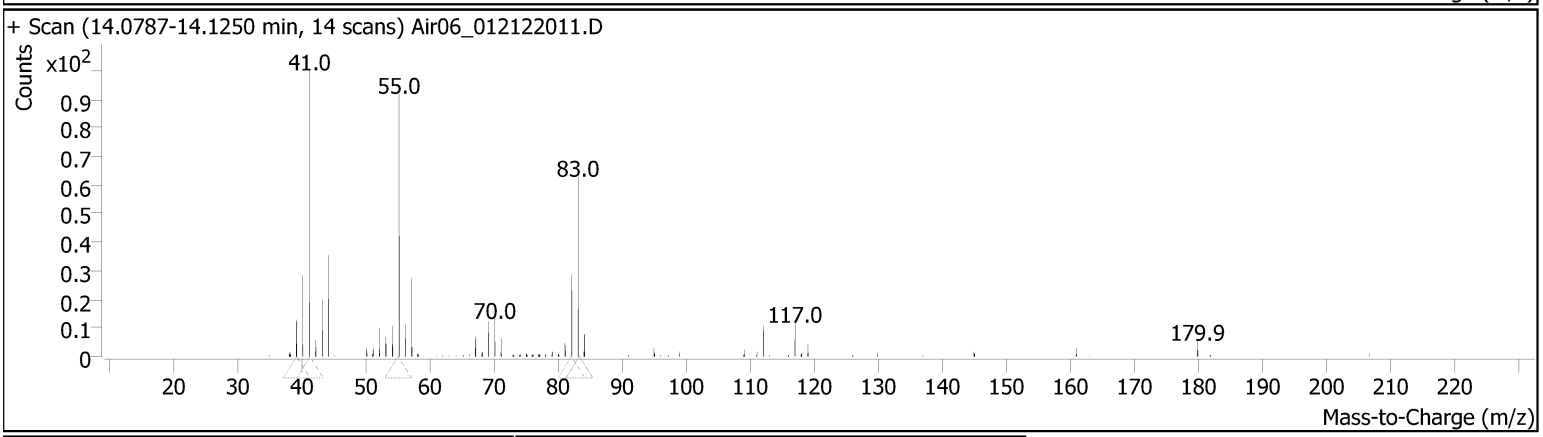



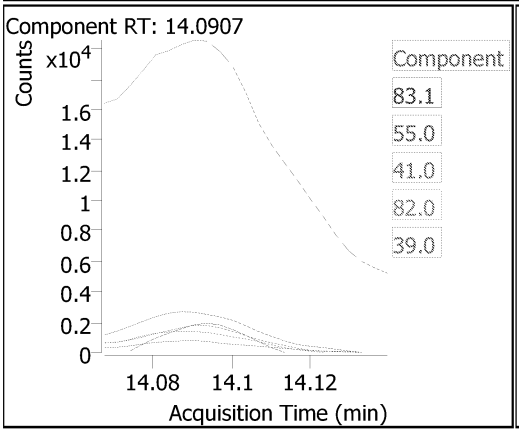



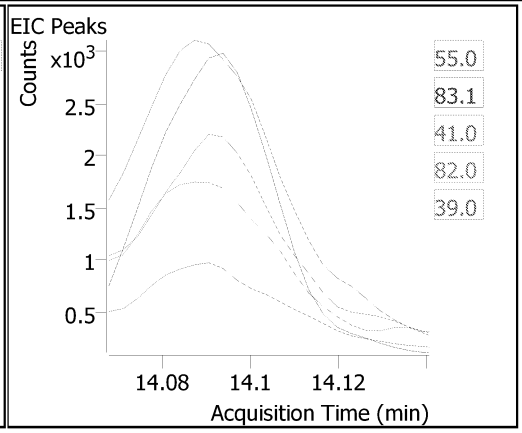
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0907 | Cyclohexane, ethyl- | 40115.4 | 84.4 | 1678-91-7 | C8H16 | 0.08365 |

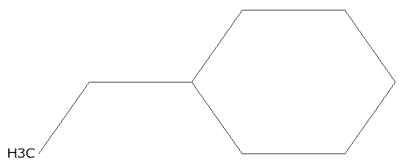


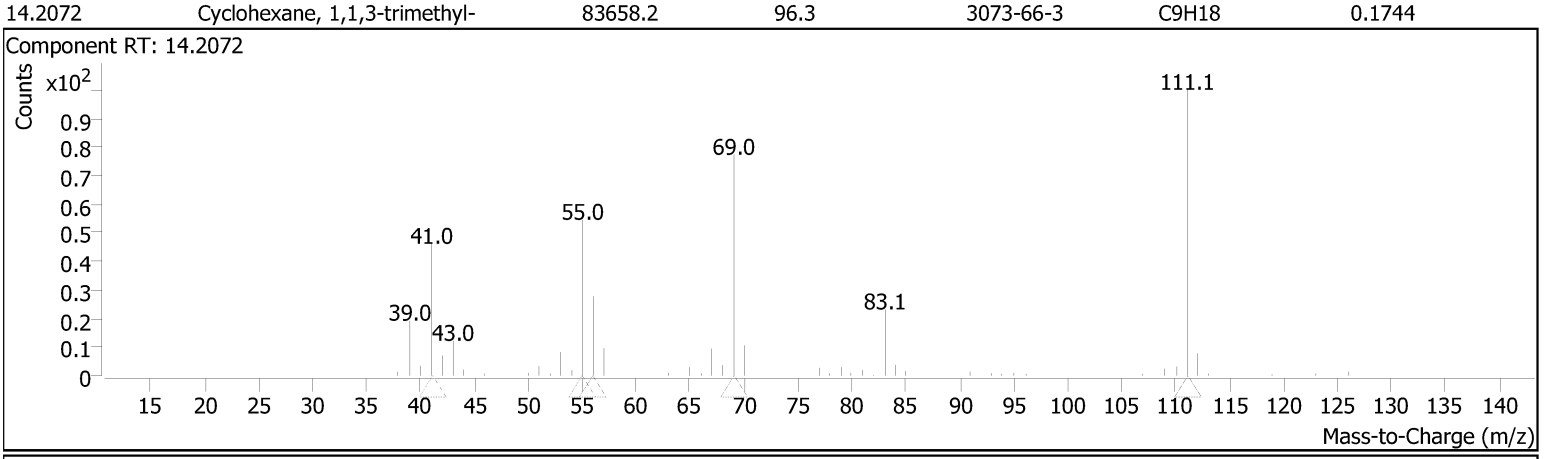



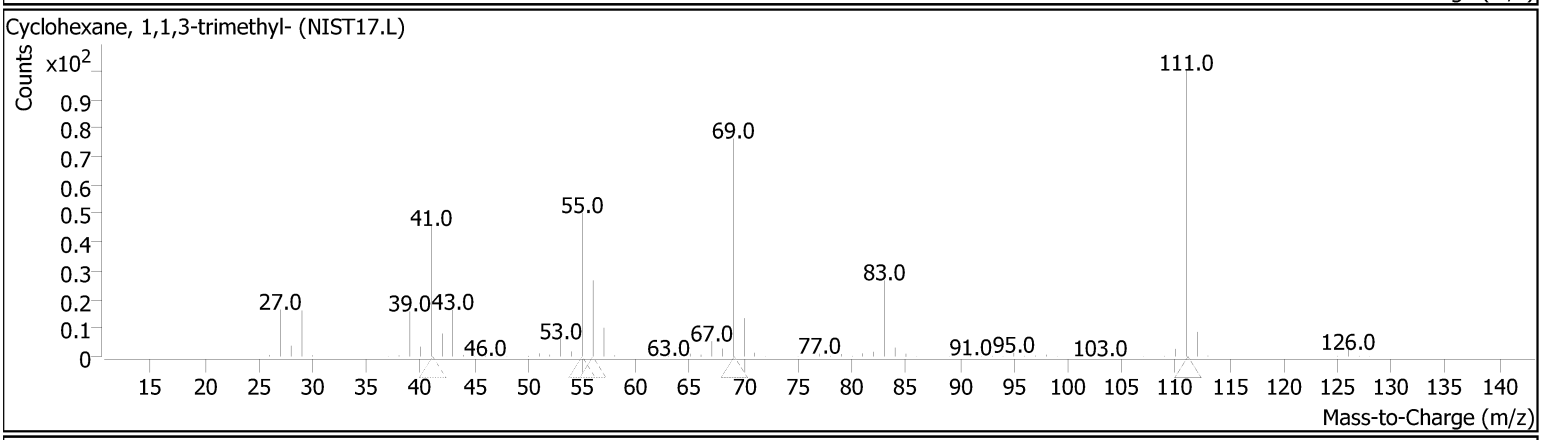



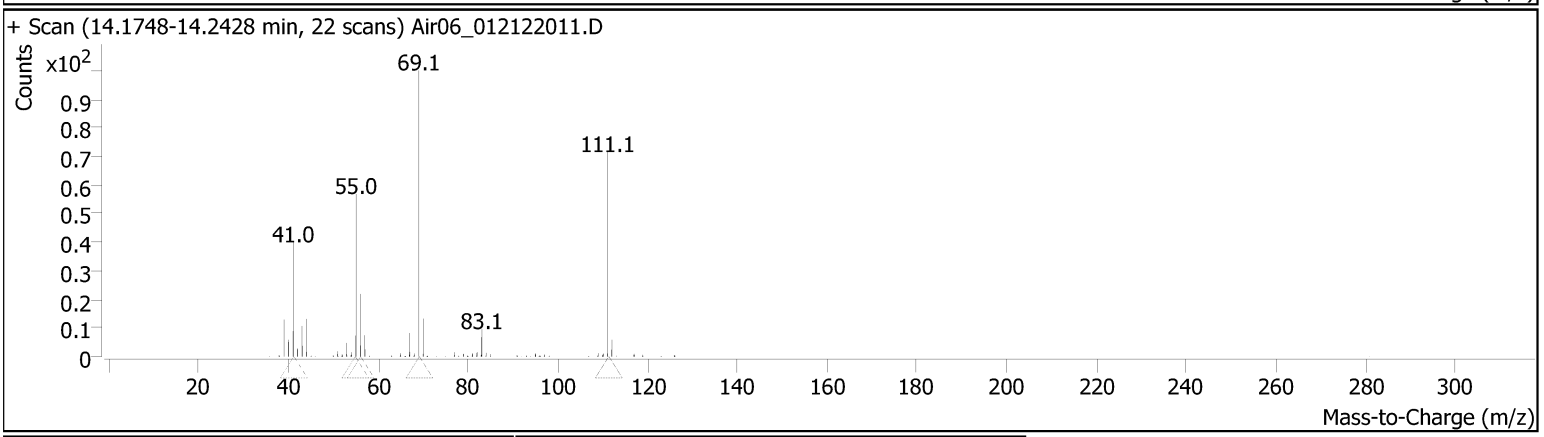



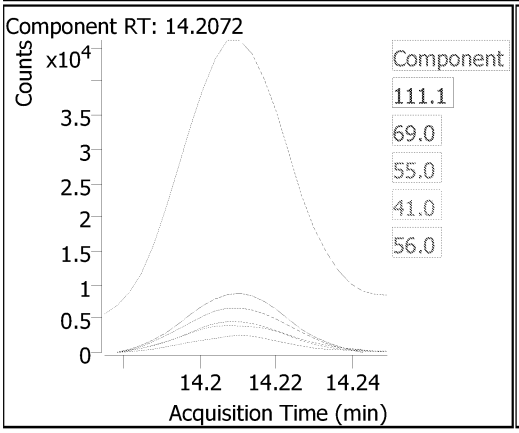



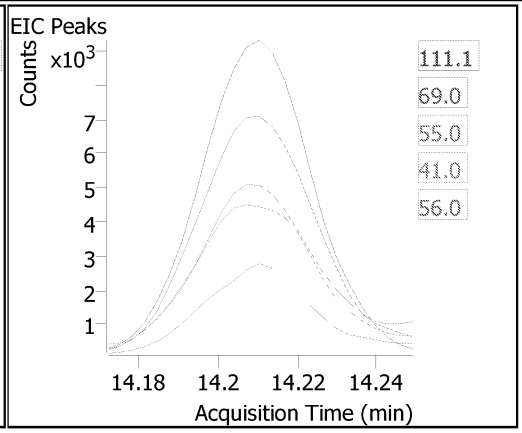
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.2072 | Cyclohexane, 1,1,3-trimethyl- | 83658.2 | 96.3 | 3073-66-3 | C9H18 | 0.1744 |

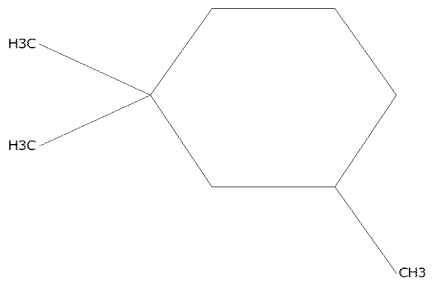


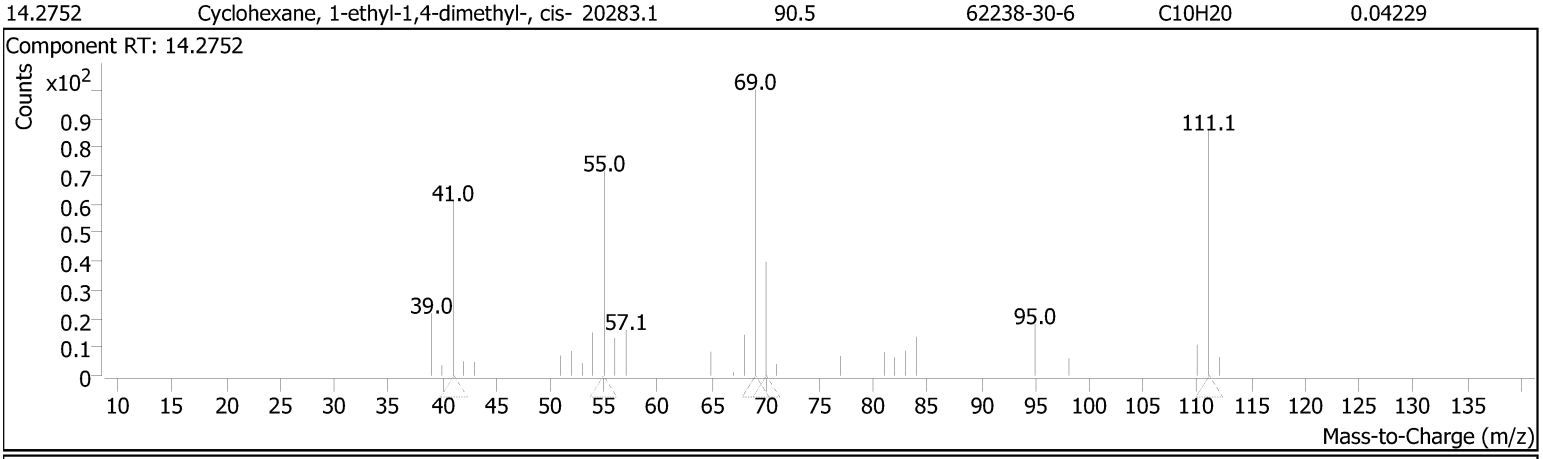



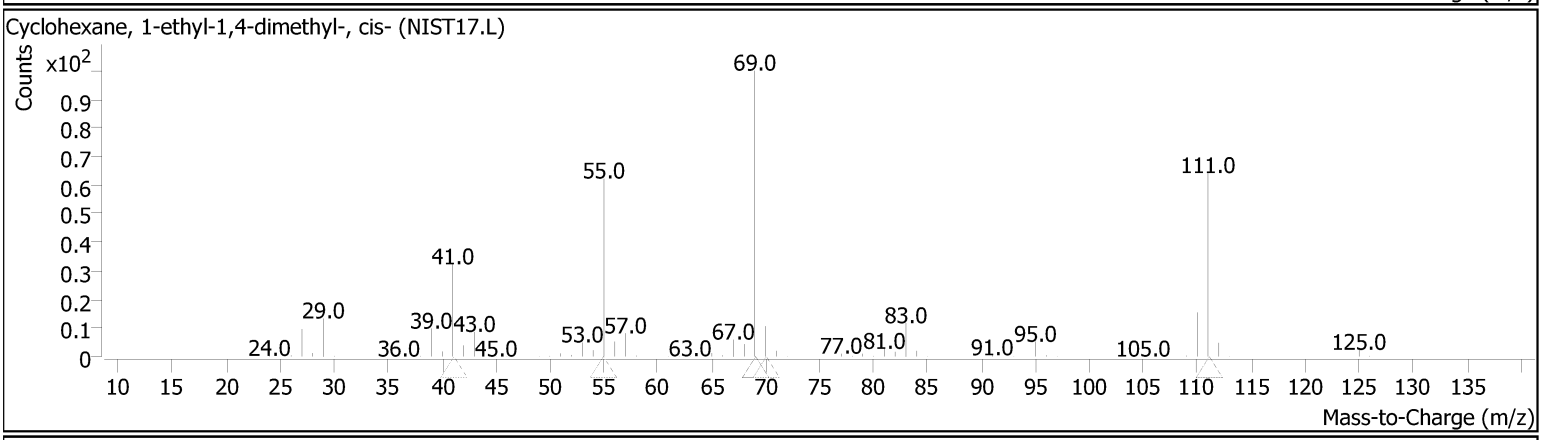



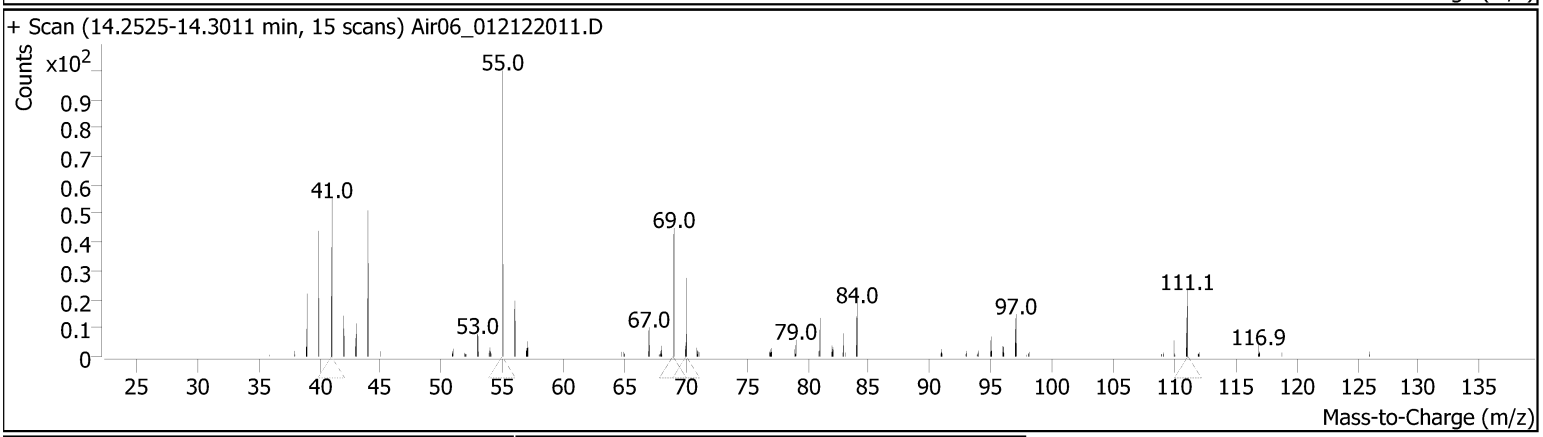



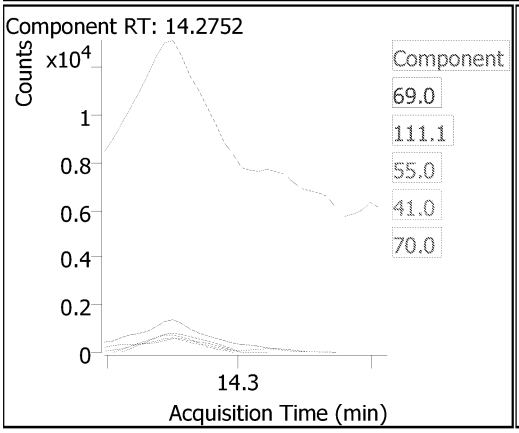



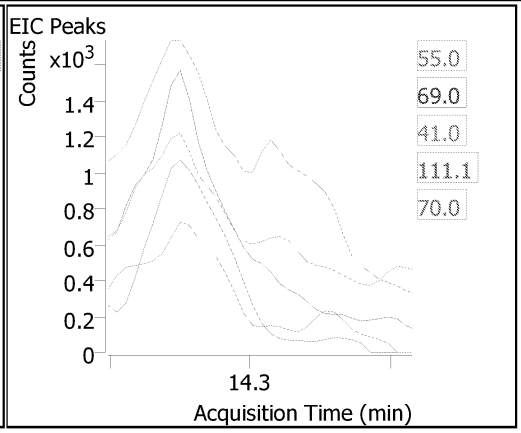
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.2752 | Cyclohexane, 1-ethyl-1,4-dimethyl-, cis- | 20283.1 | 90.5 | 62238-30-6 | C10H20 | 0.04229 |

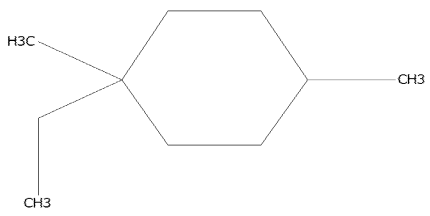


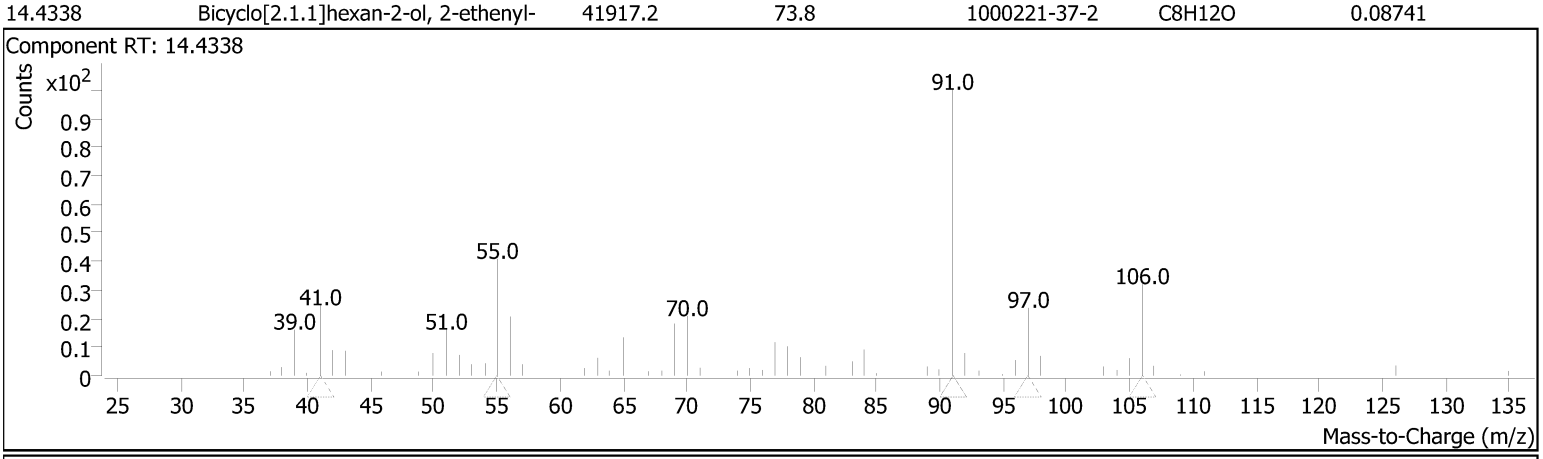



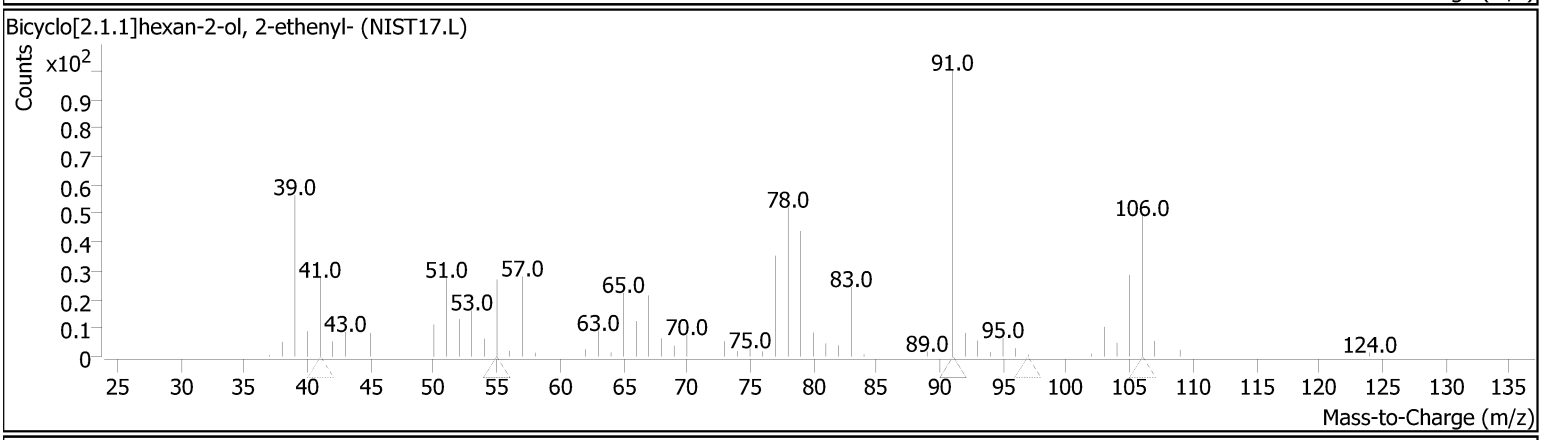



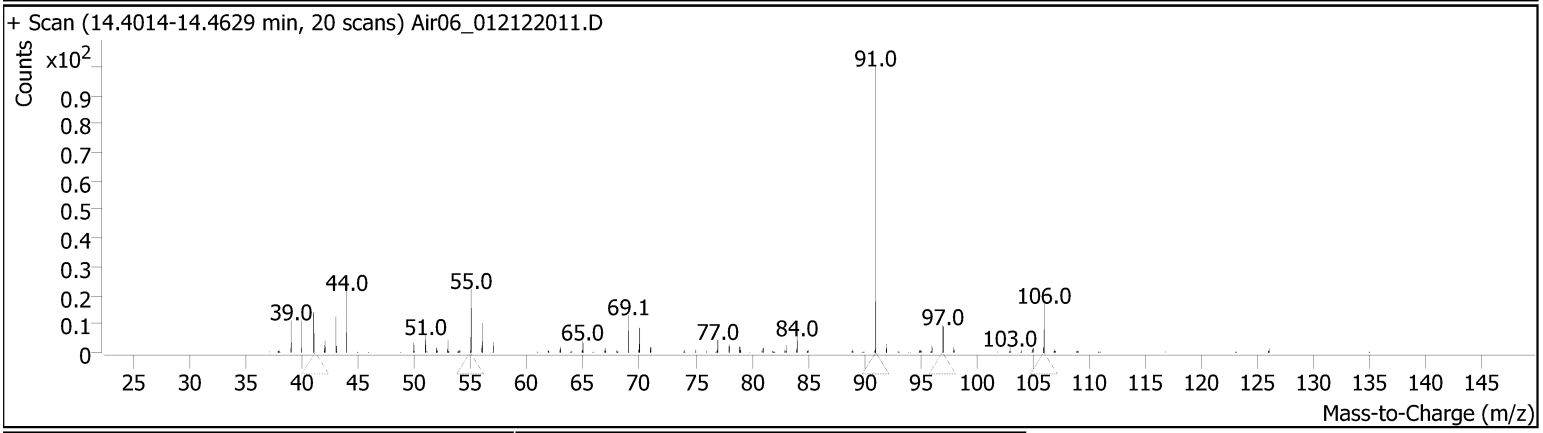



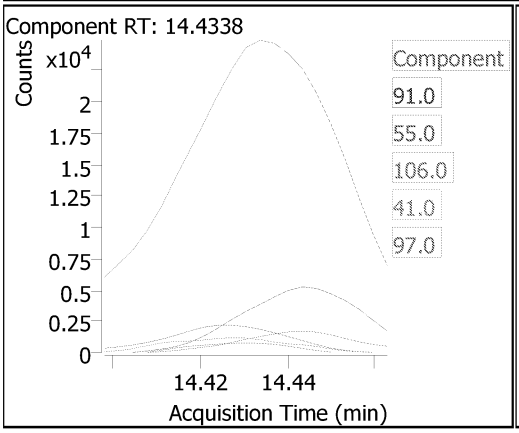



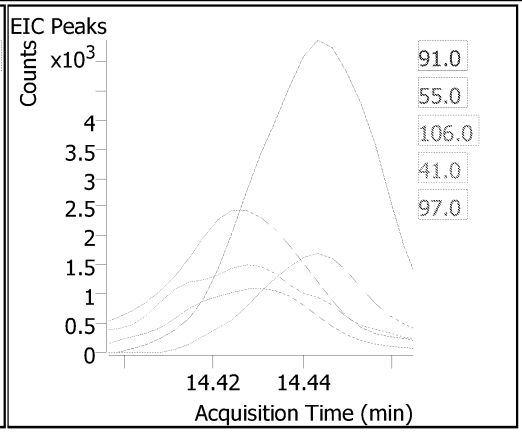
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.4338 | Bicyclo[2.1.1]hexan-2-ol, 2-ethenyl- | 41917.2 | 73.8 | 1000221-37-2 | C8H12O | 0.08741 |

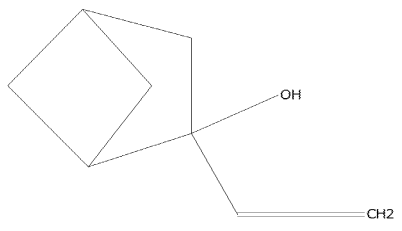


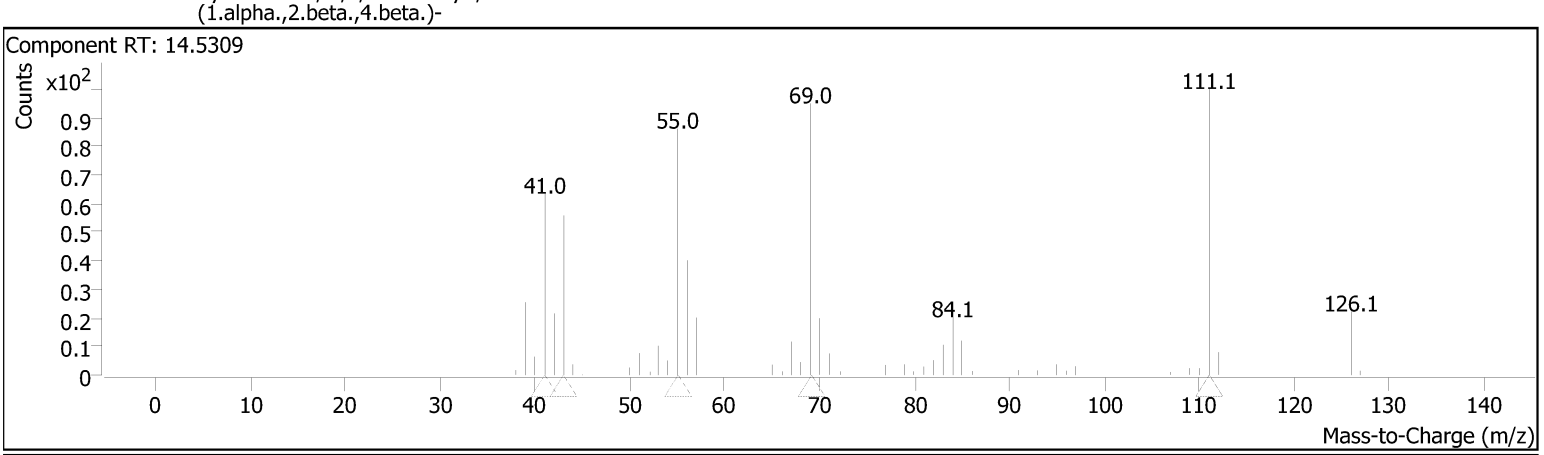



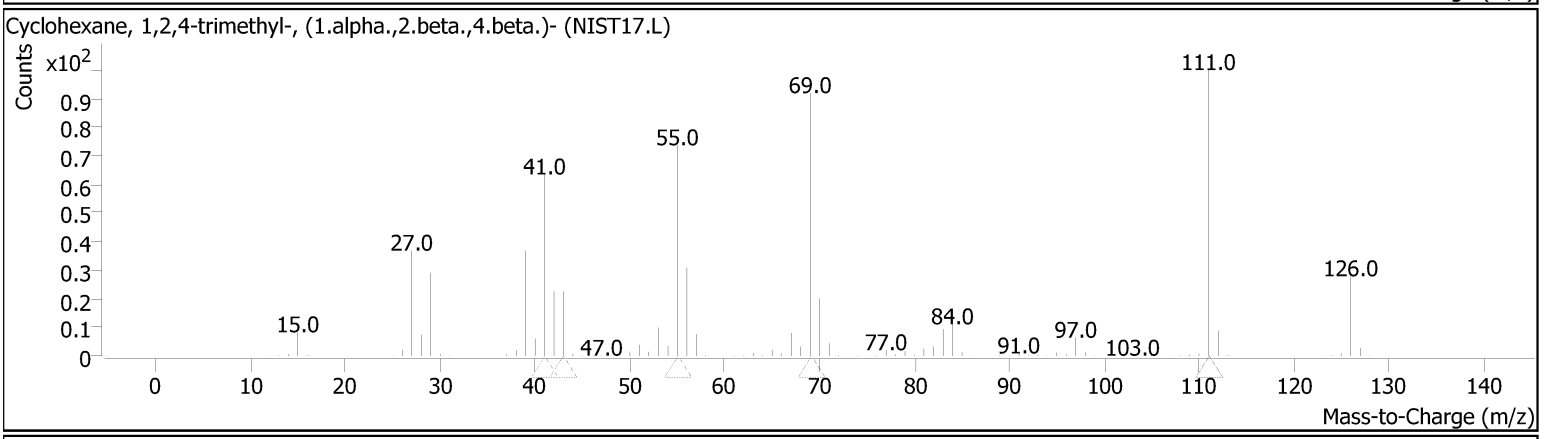



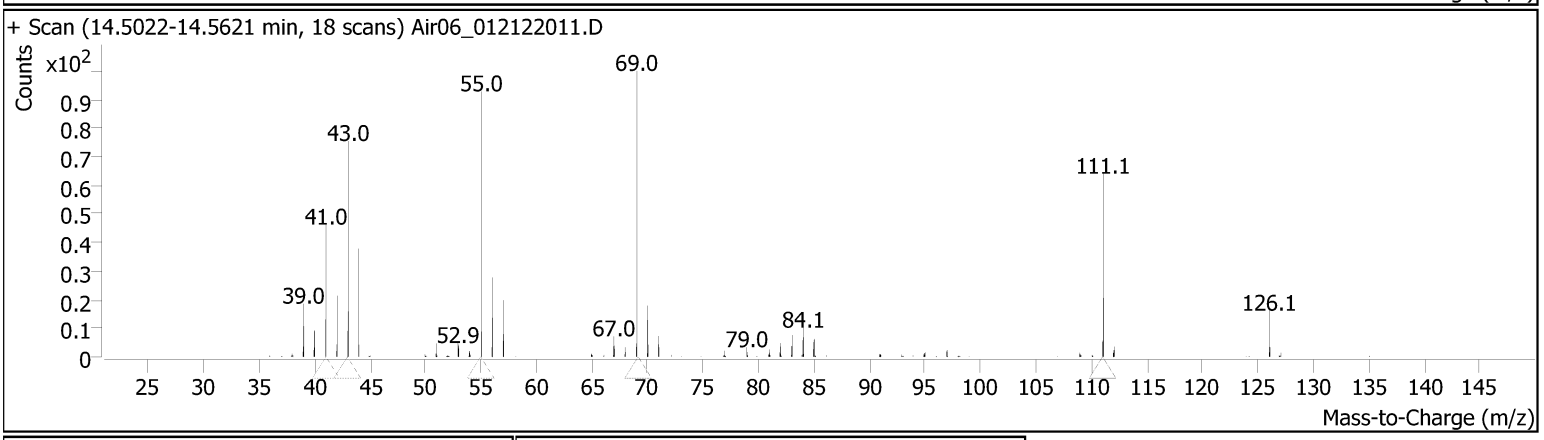



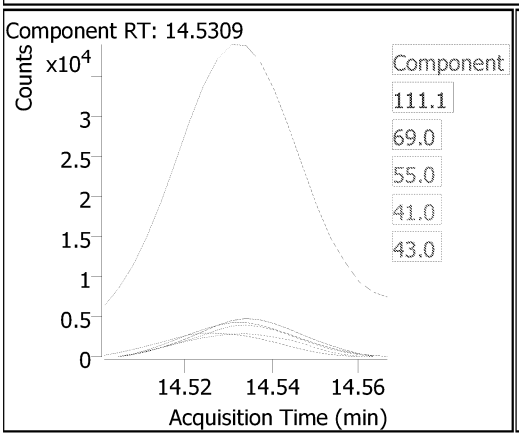



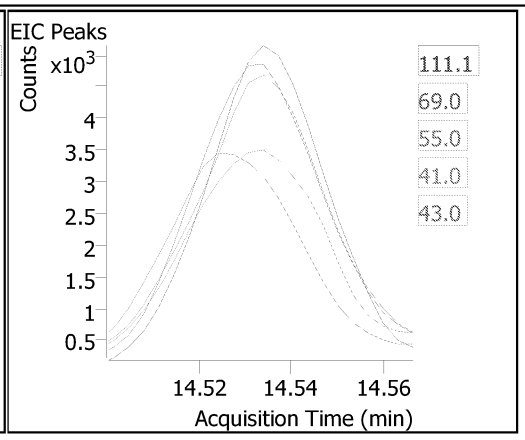
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.5309 | Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.beta.)- | 63860.7 | 95.6 | 7667-60-9 | C9H18 | 0.1332 |

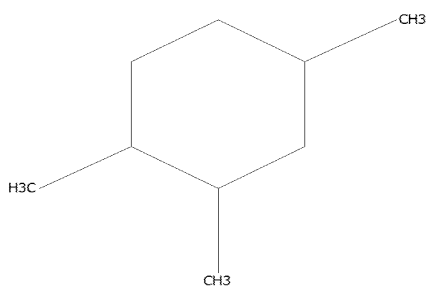


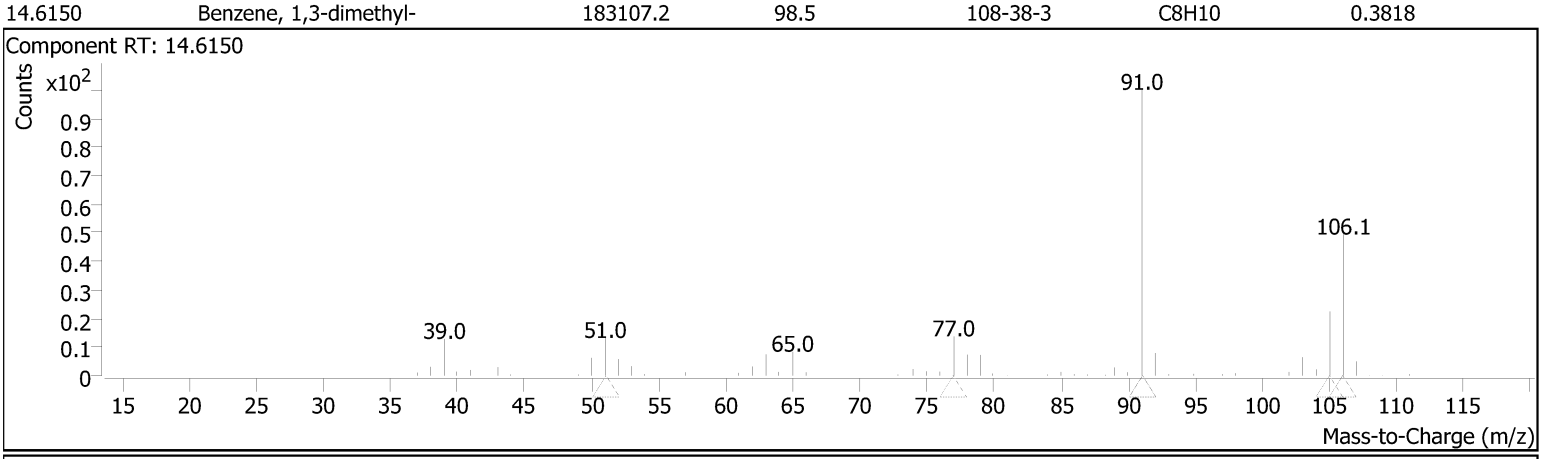



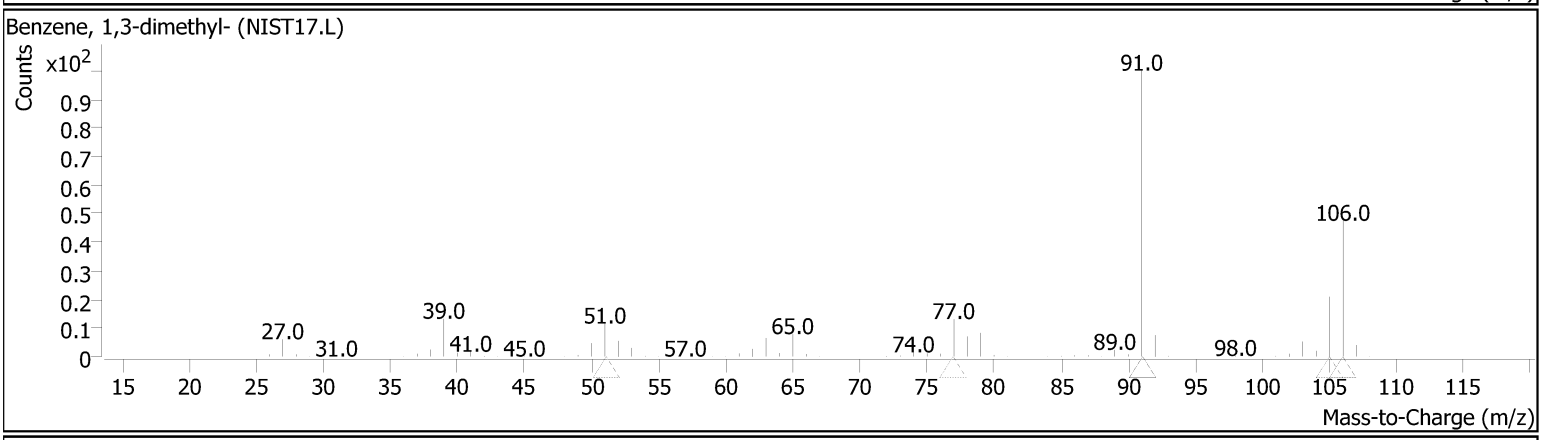



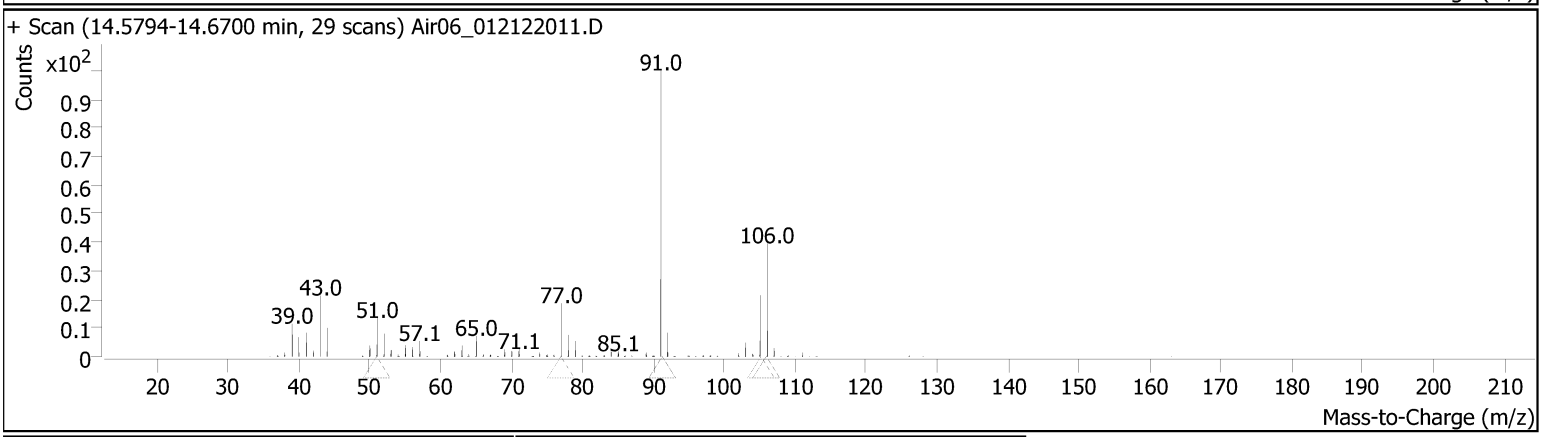



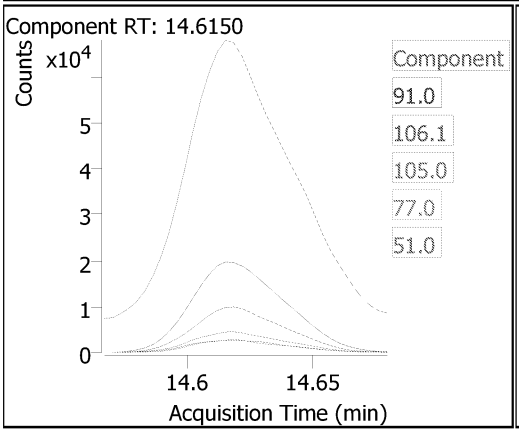



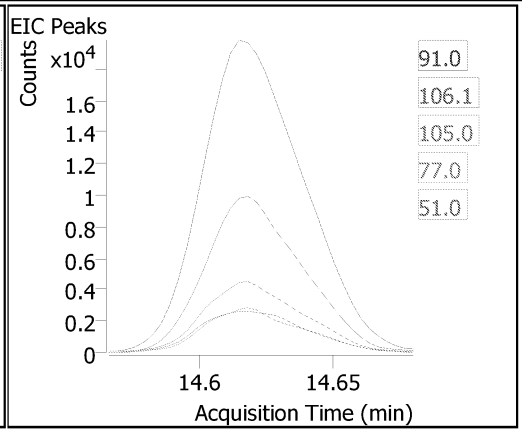
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.6150 | Benzene, 1,3-dimethyl- | 183107.2 | 98.5 | 108-38-3 | C8H10 | 0.3818 |

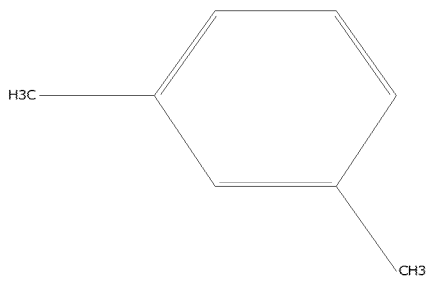


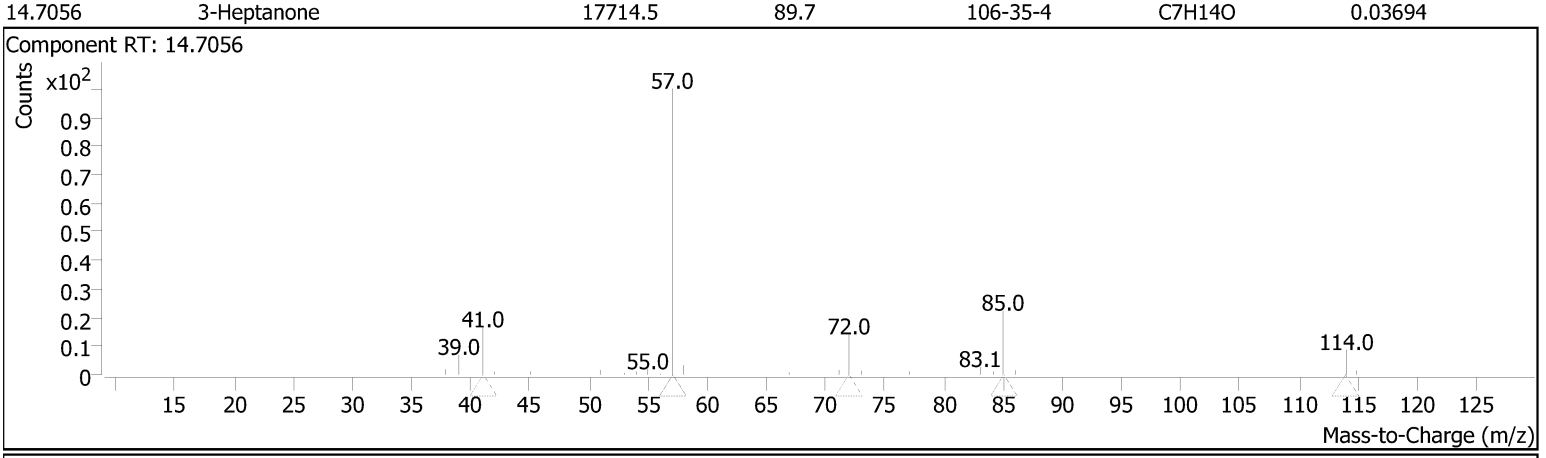



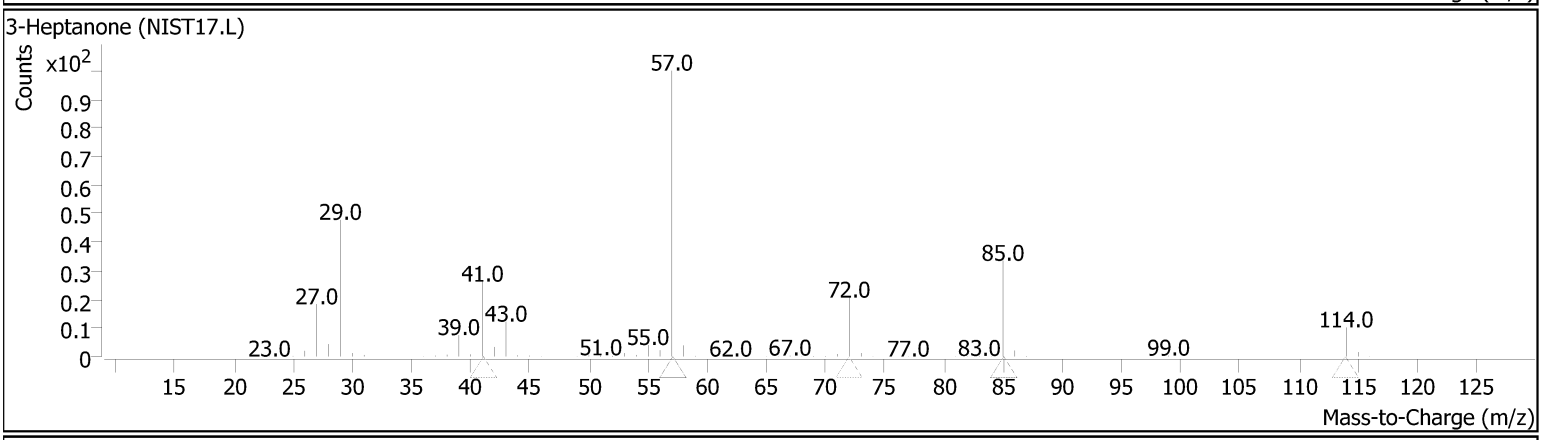



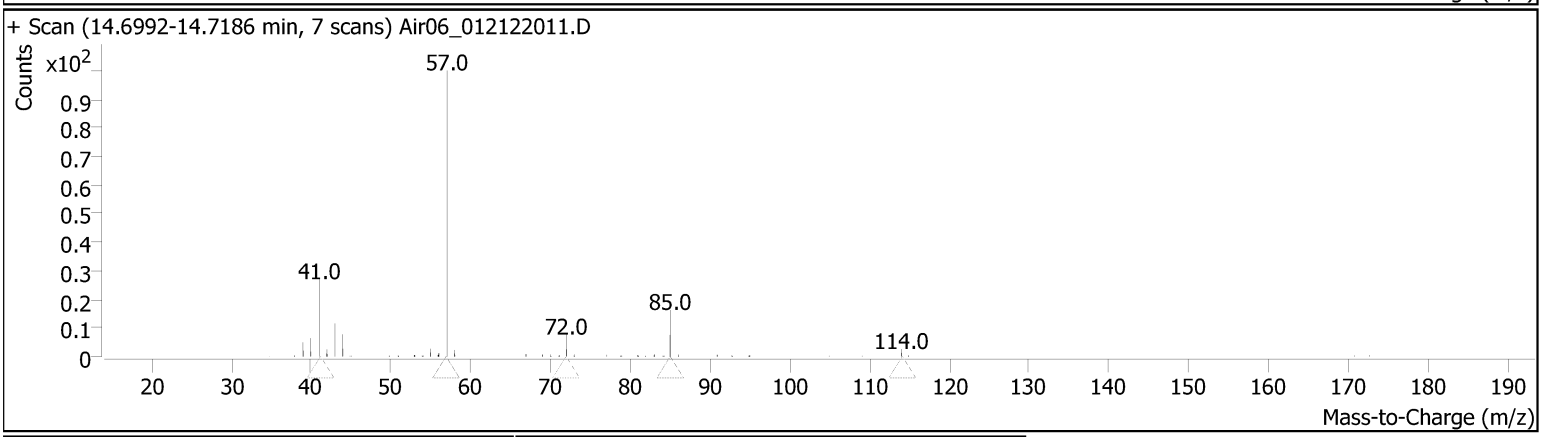



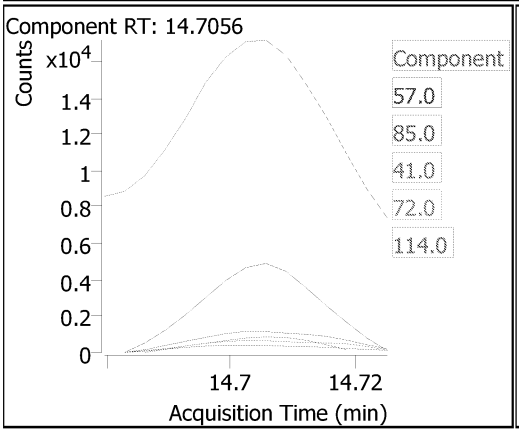



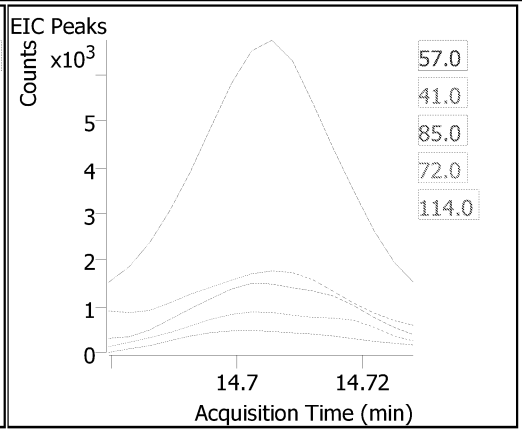
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.7056 | 3-Heptanone | 17714.5 | 89.7 | 106-35-4 | C7H14O | 0.03694 |

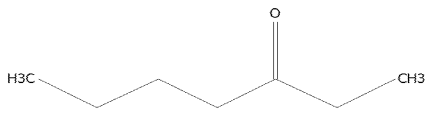


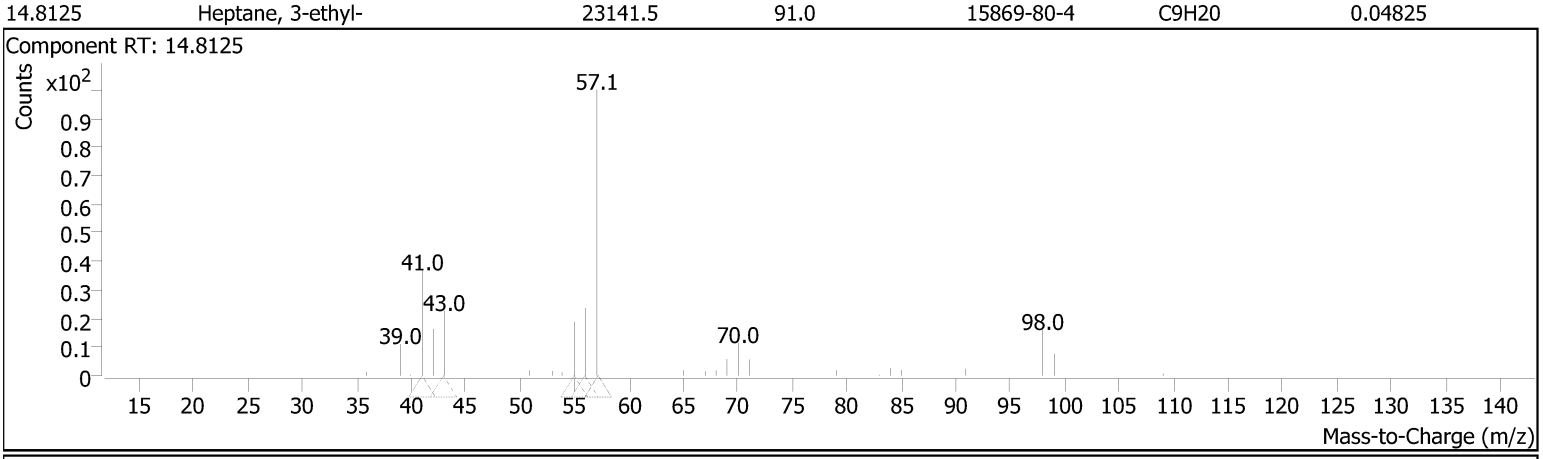



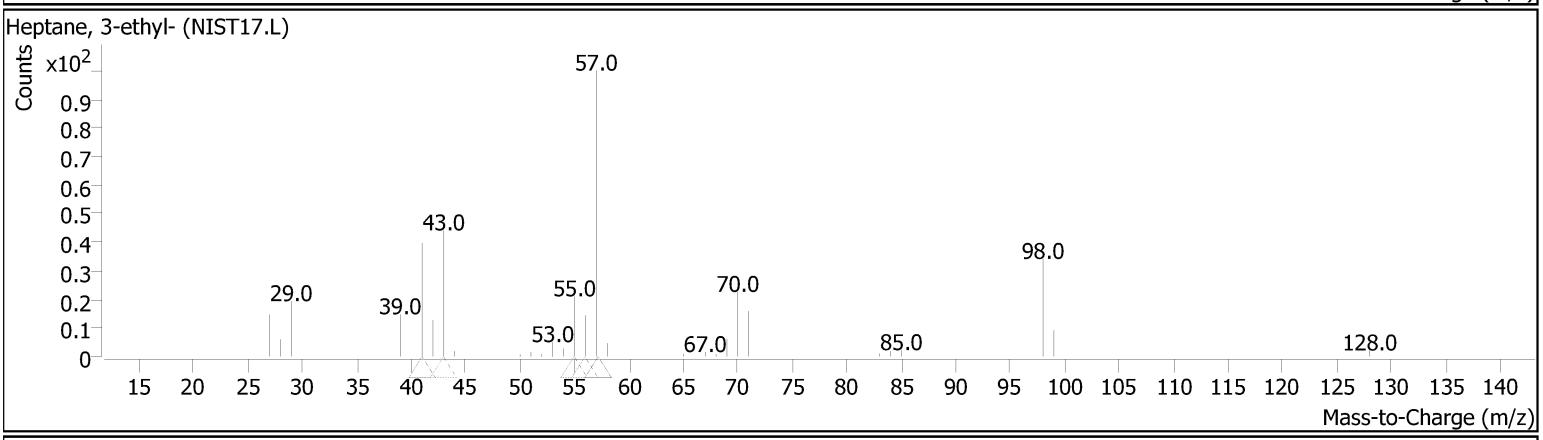



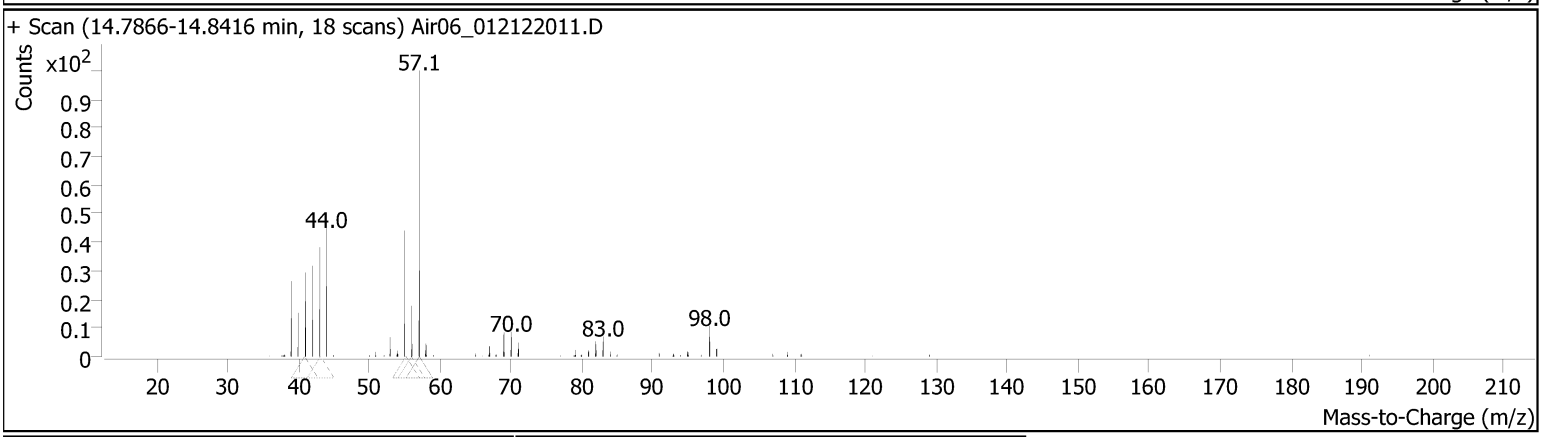



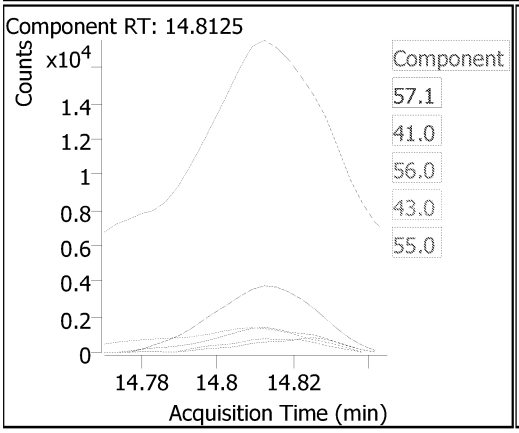



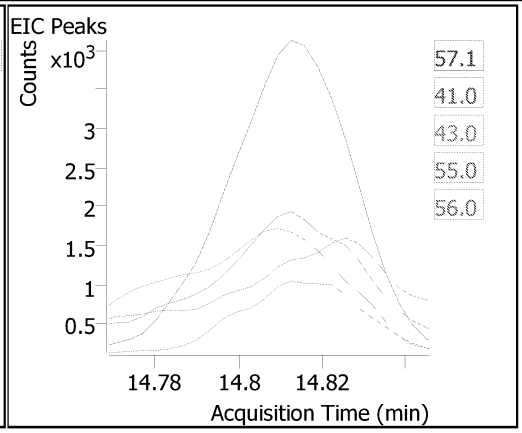
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.8125 | Heptane, 3-ethyl- | 23141.5 | 91.0 | 15869-80-4 | C9H20 | 0.04825 |

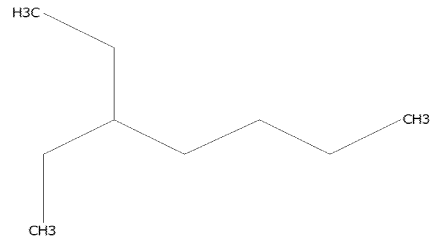


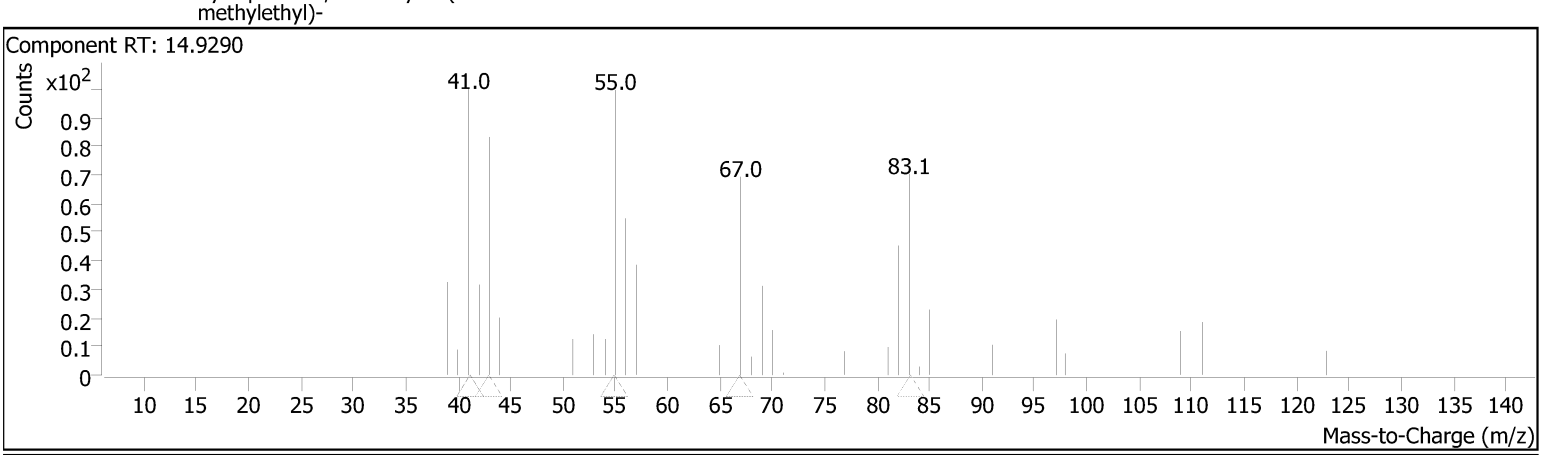



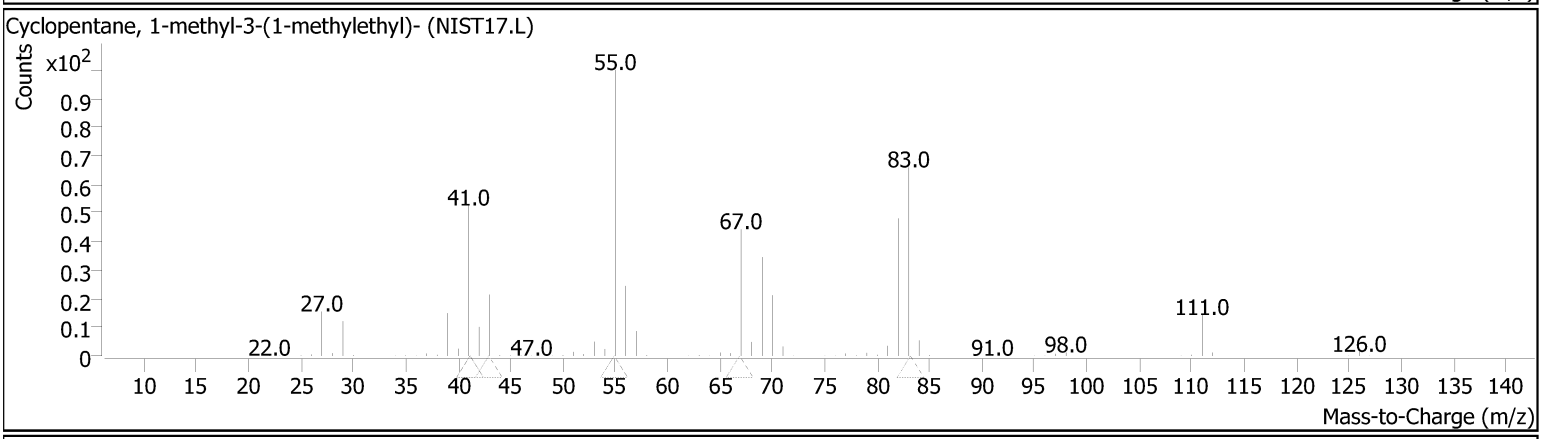



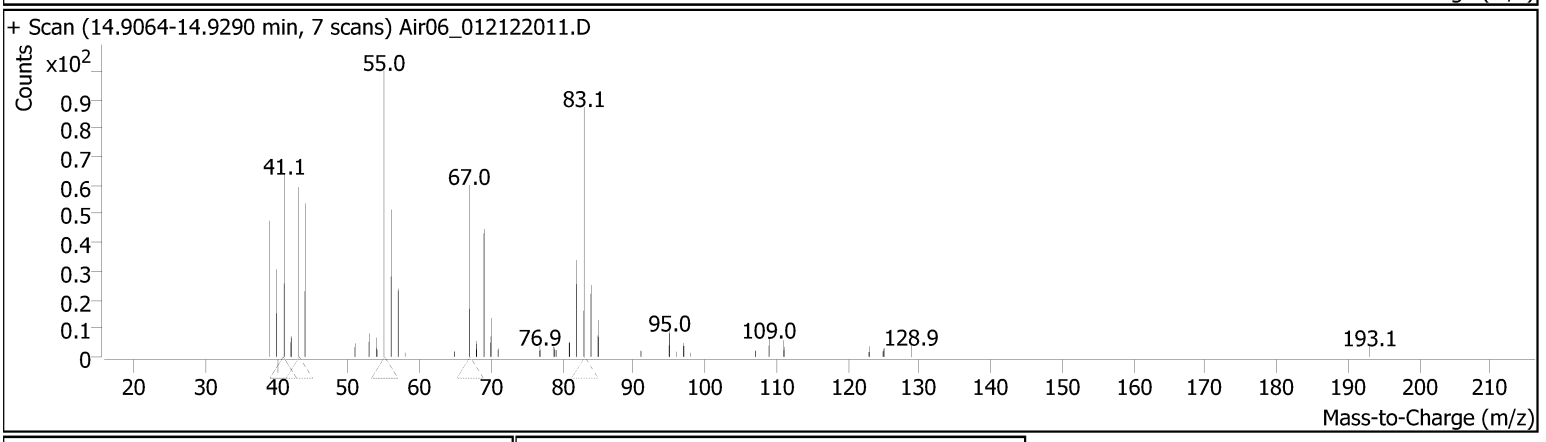



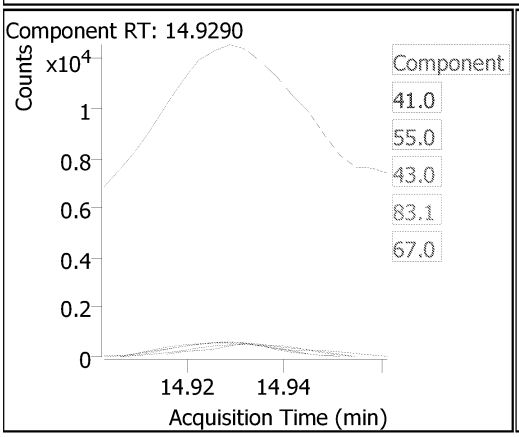



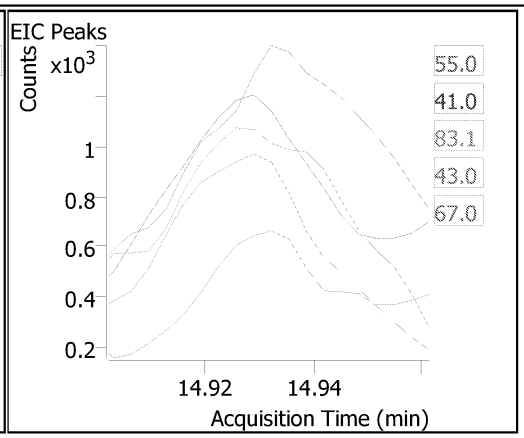
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.9290 | Cyclopentane, 1-methyl-3-(1-methylethyl)- | 10917.3 | 82.4 | 53771-88-3 | C9H18 | 0.02276 |

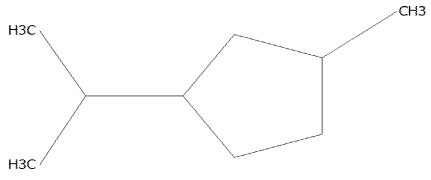


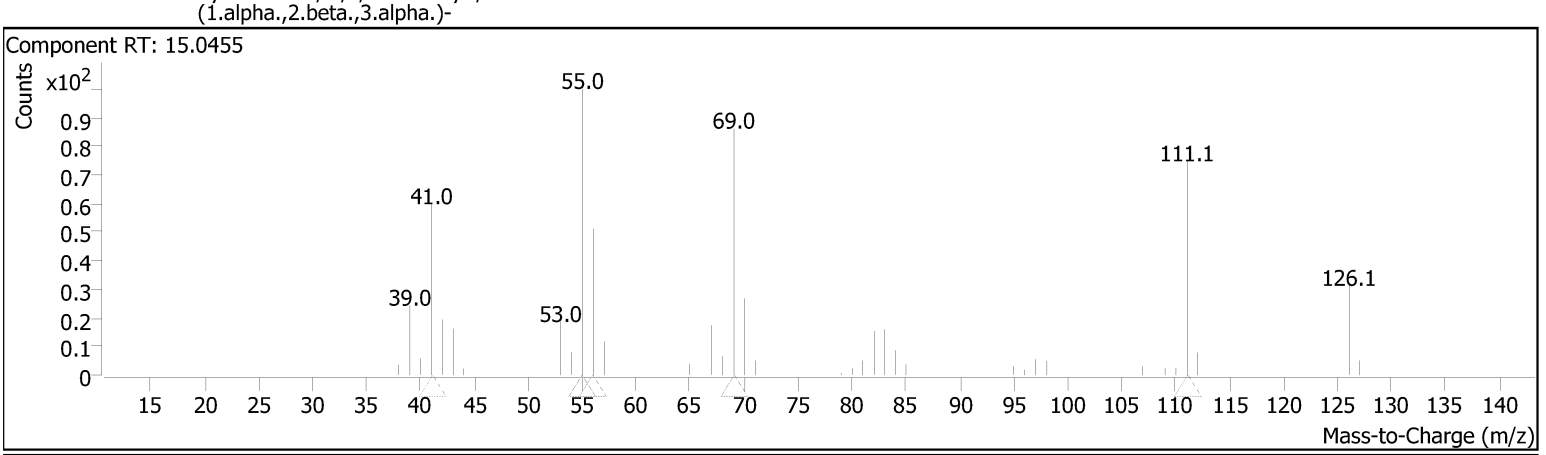



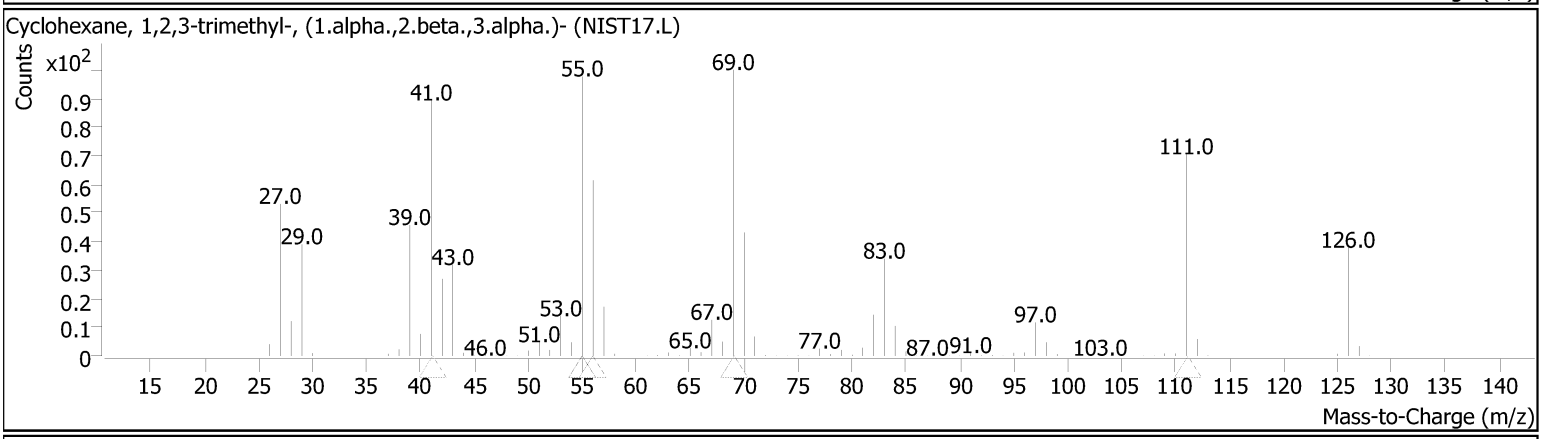



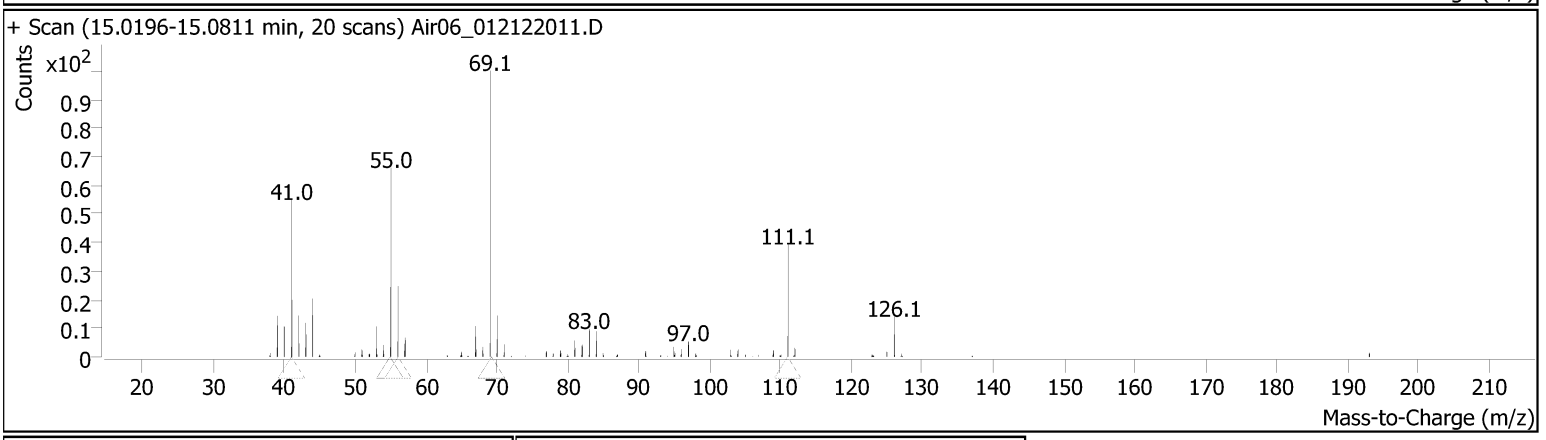



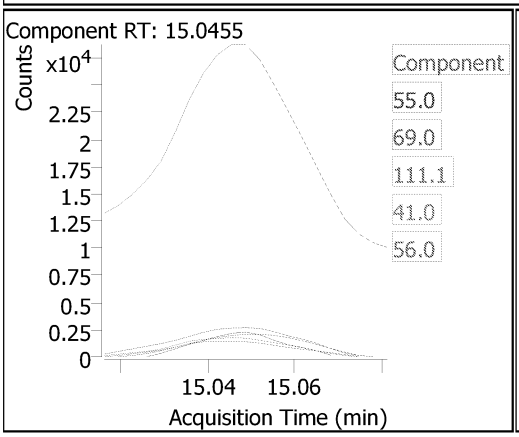



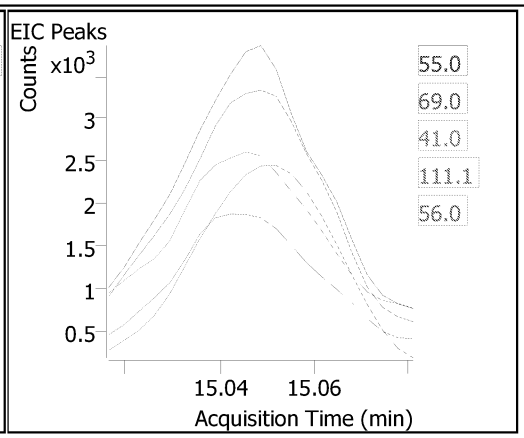
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.0455 | Cyclohexane, 1,2,3-trimethyl-, (1.alpha.,2.beta.,3.alpha.)- | 48831.2 | 94.7 | 1678-81-5 | C9H18 | 0.1018 |

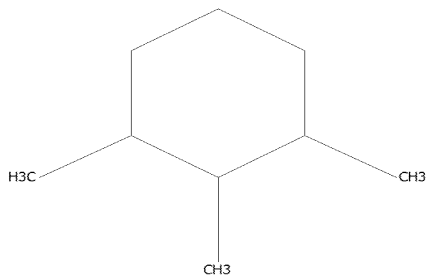


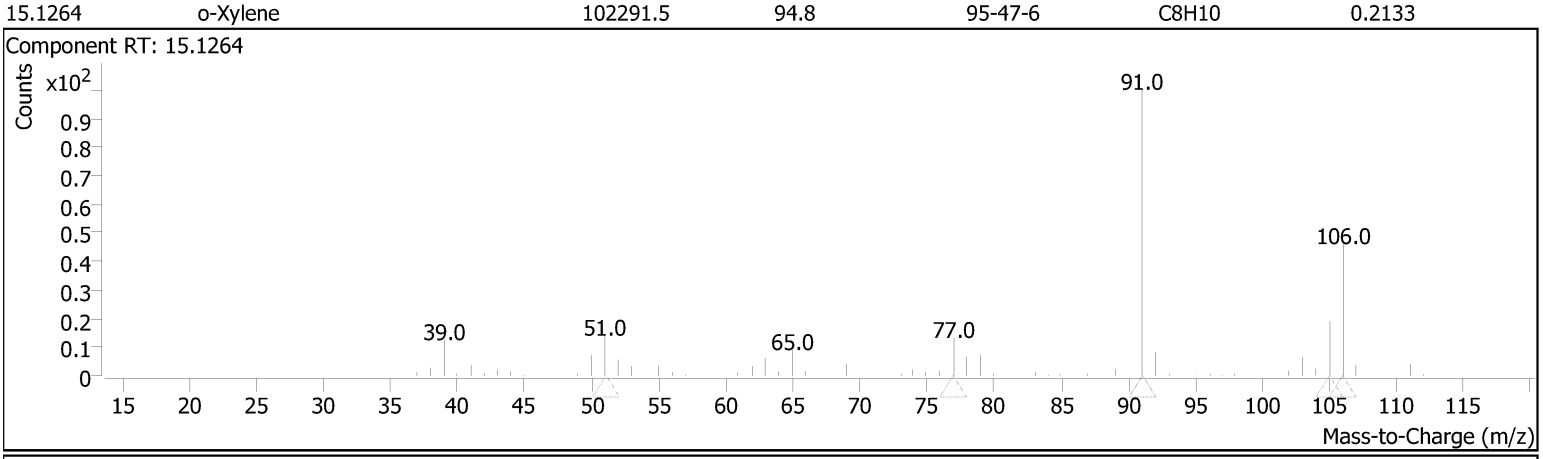



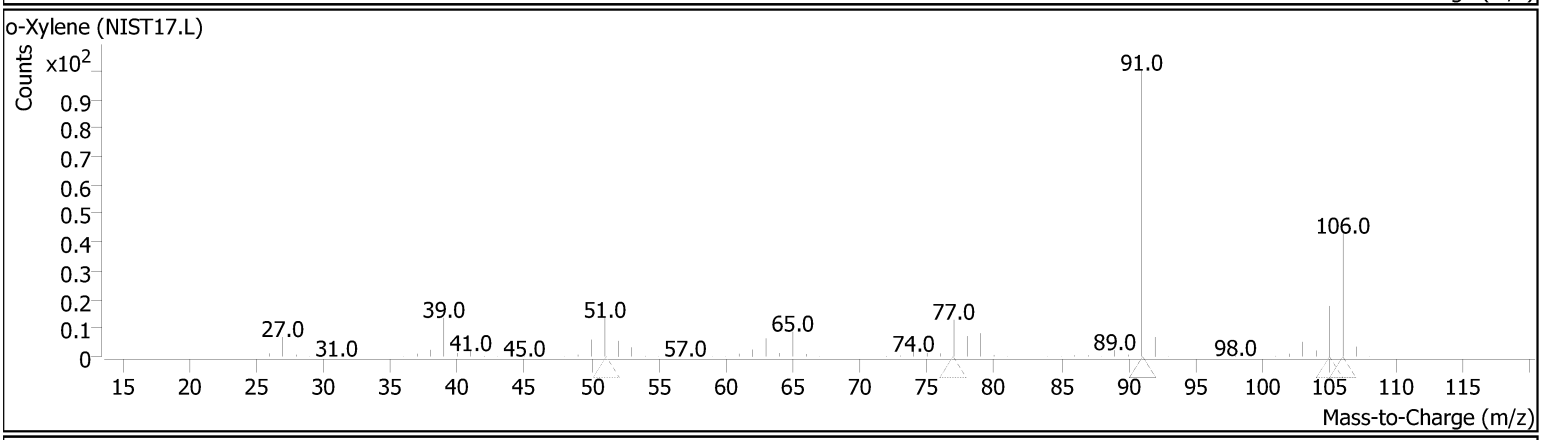



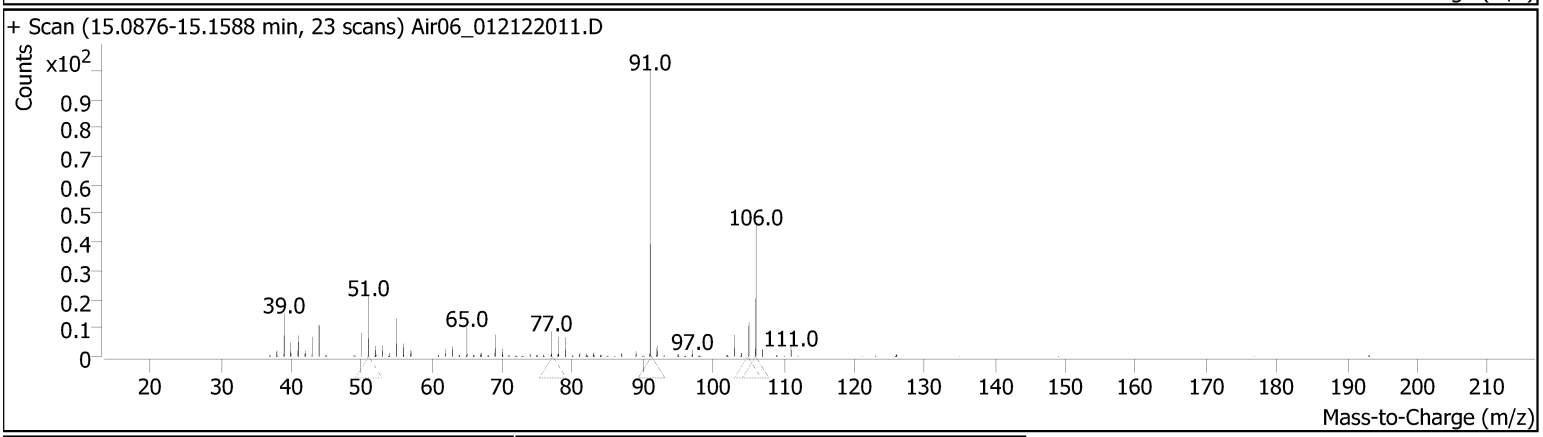



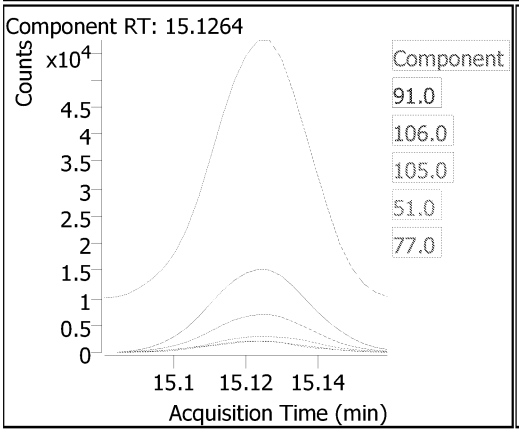



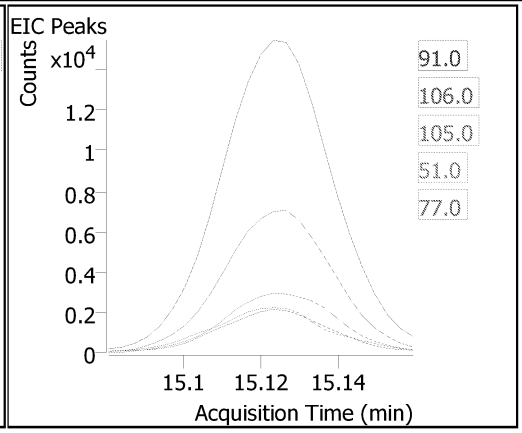
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.1264 | o-Xylene | 102291.5 | 94.8 | 95-47-6 | C8H10 | 0.2133 |

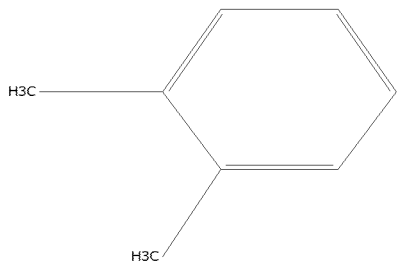


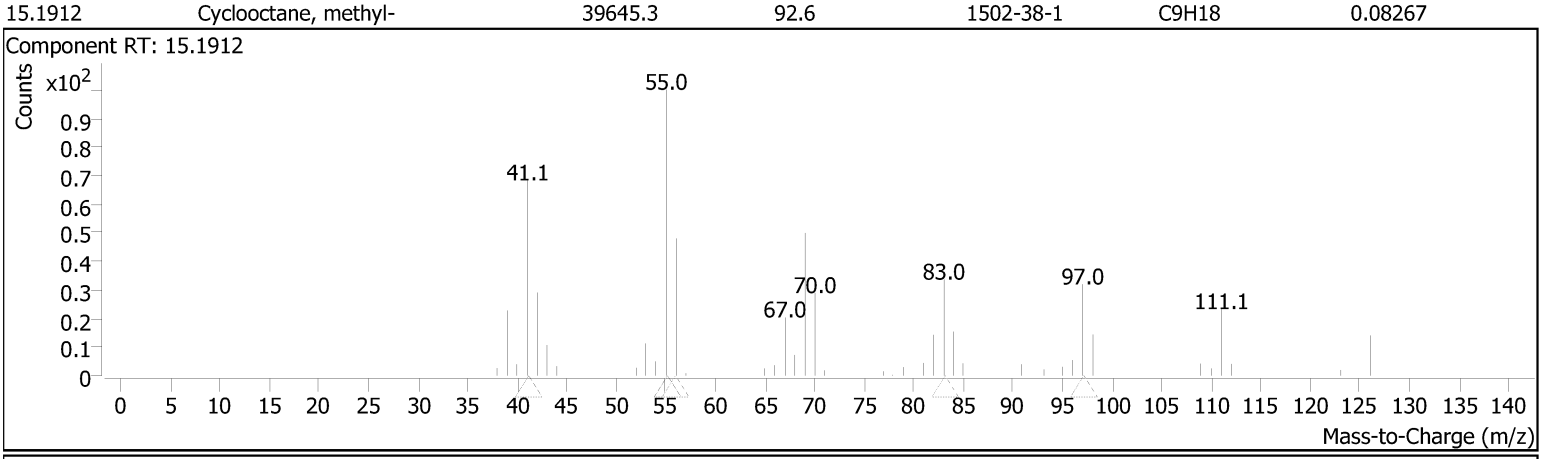



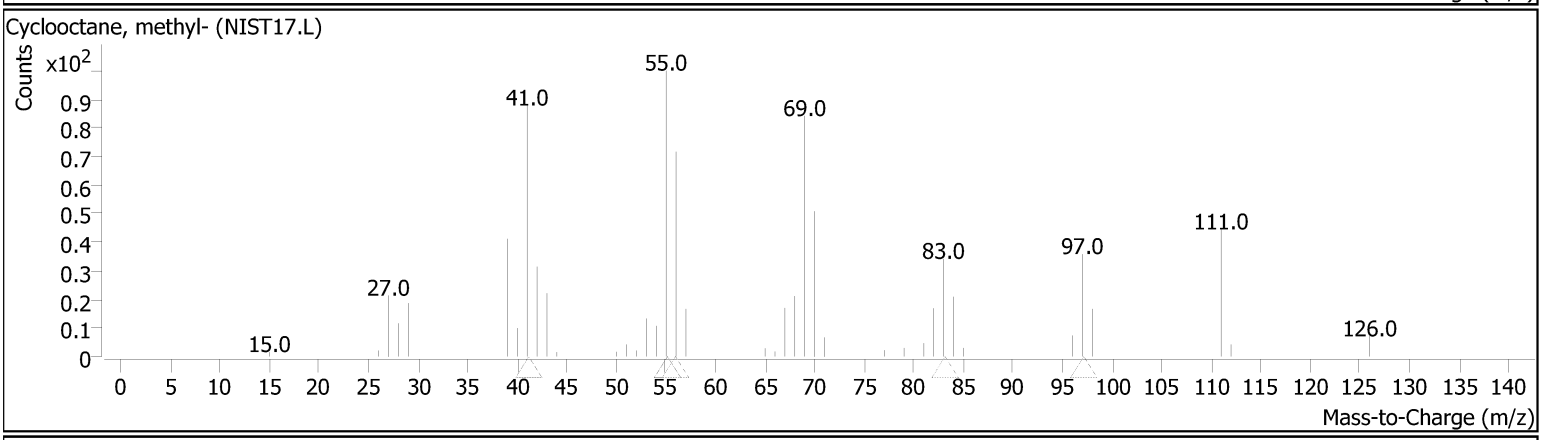



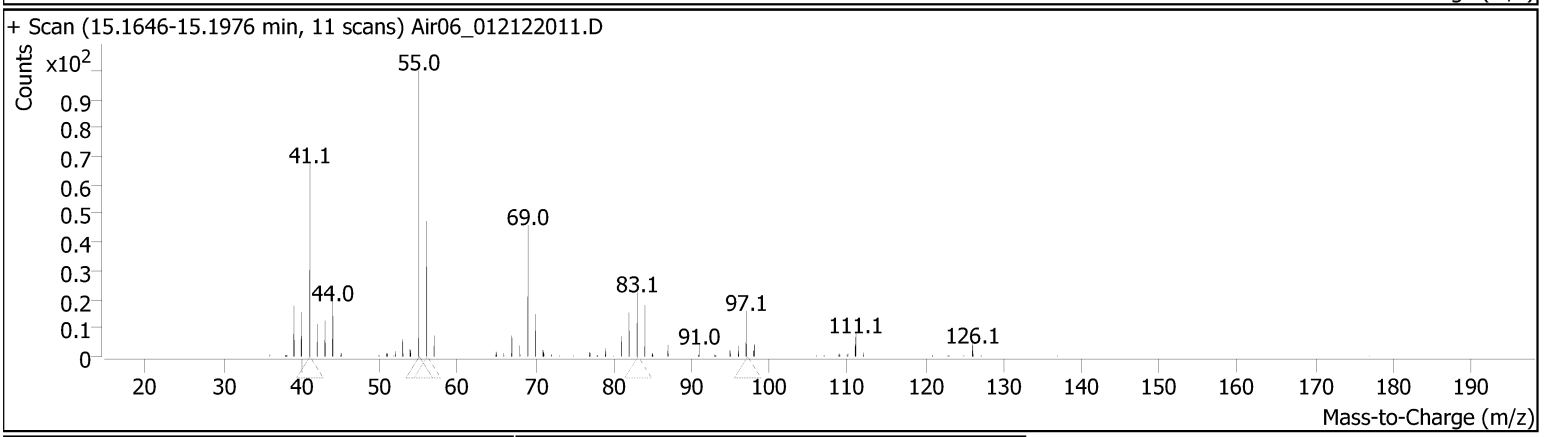



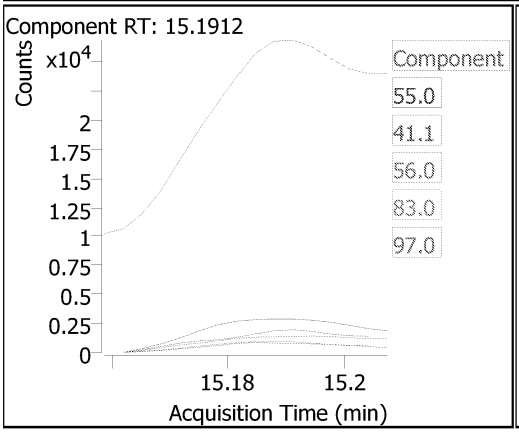



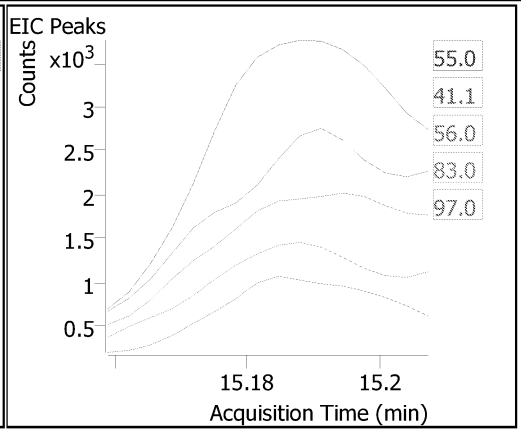
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.1912 | Cyclooctane, methyl- | 39645.3 | 92.6 | 1502-38-1 | C9H18 | 0.08267 |

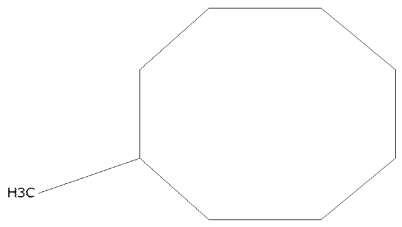


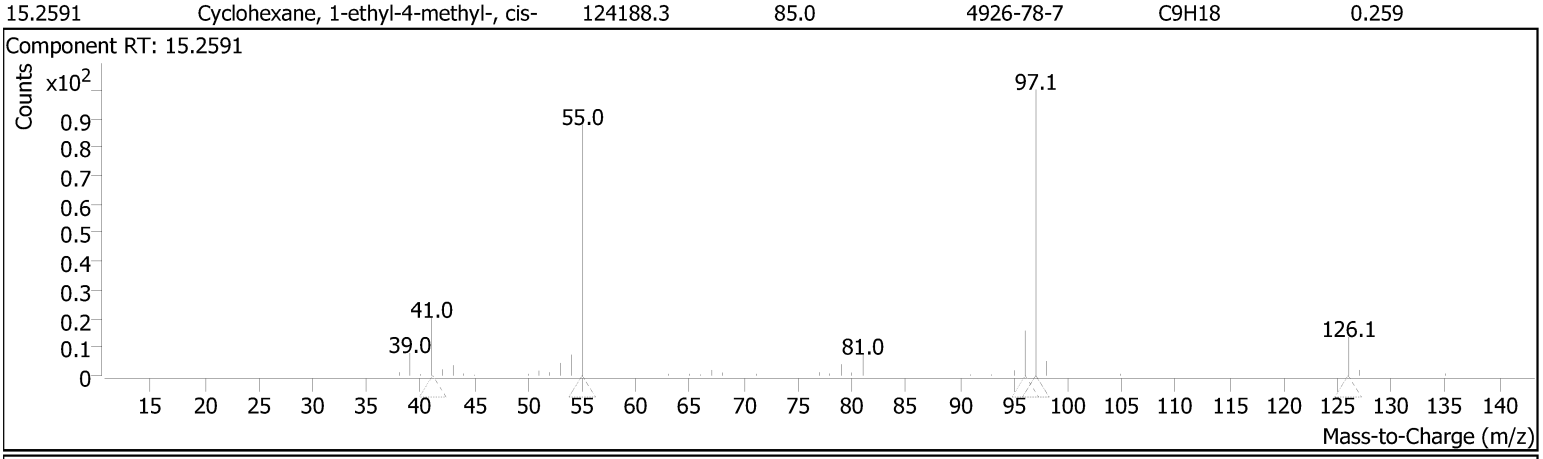



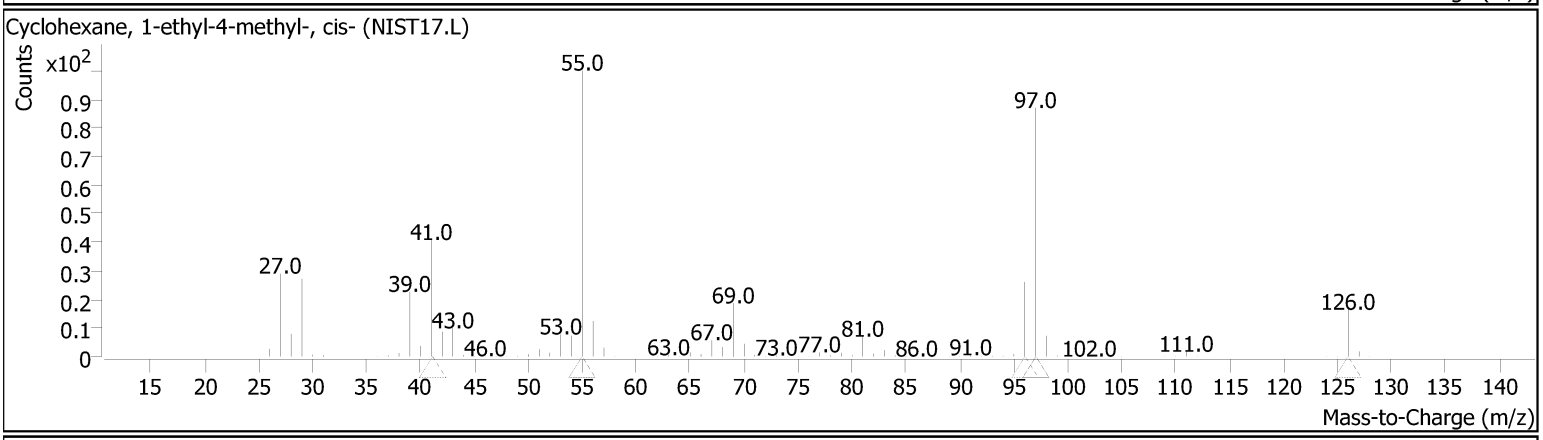



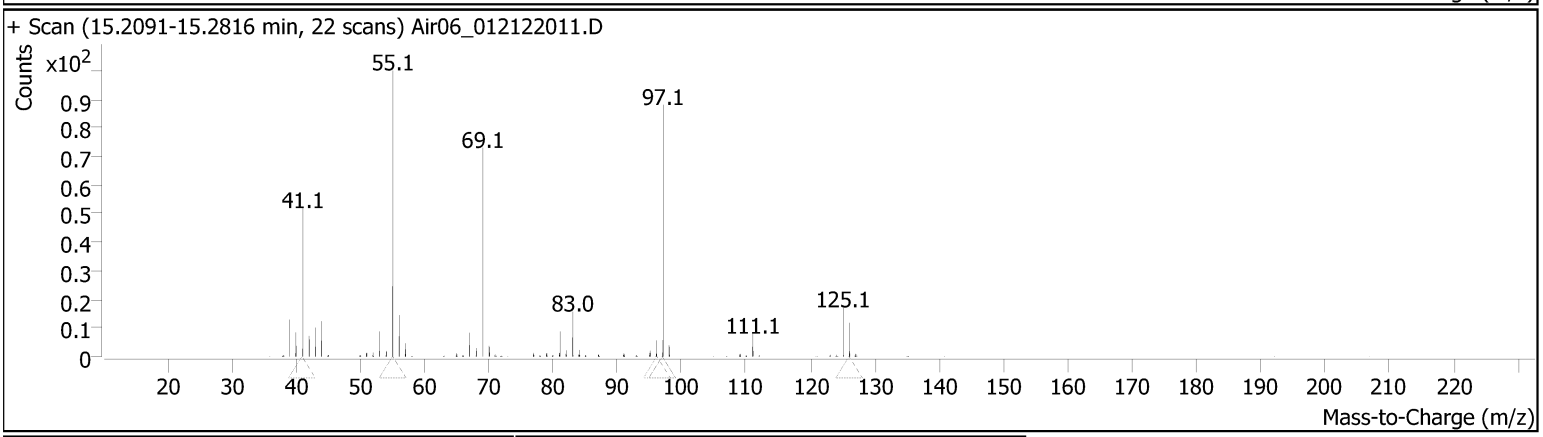



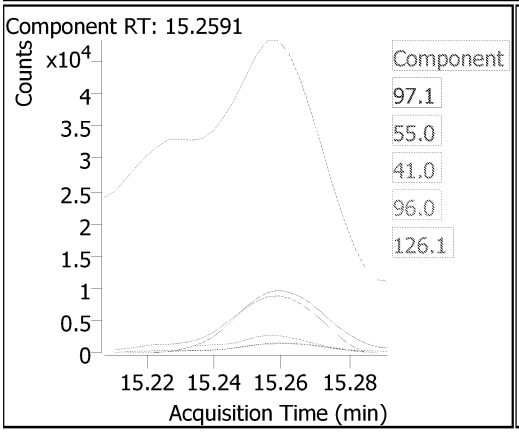



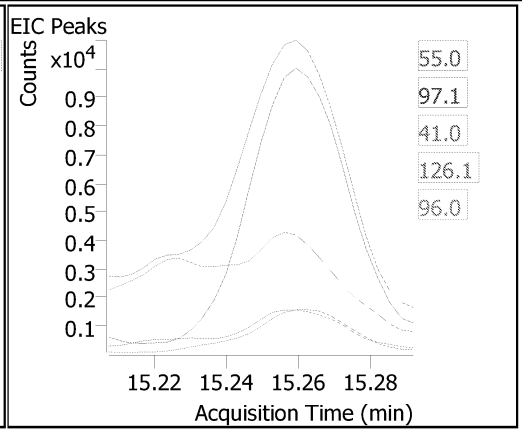
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.2591 | Cyclohexane, 1-ethyl-4-methyl-, cis- | 124188.3 | 85.0 | 4926-78-7 | C9H18 | 0.259 |

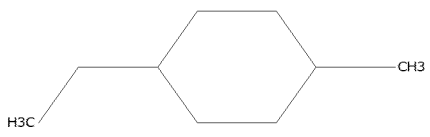


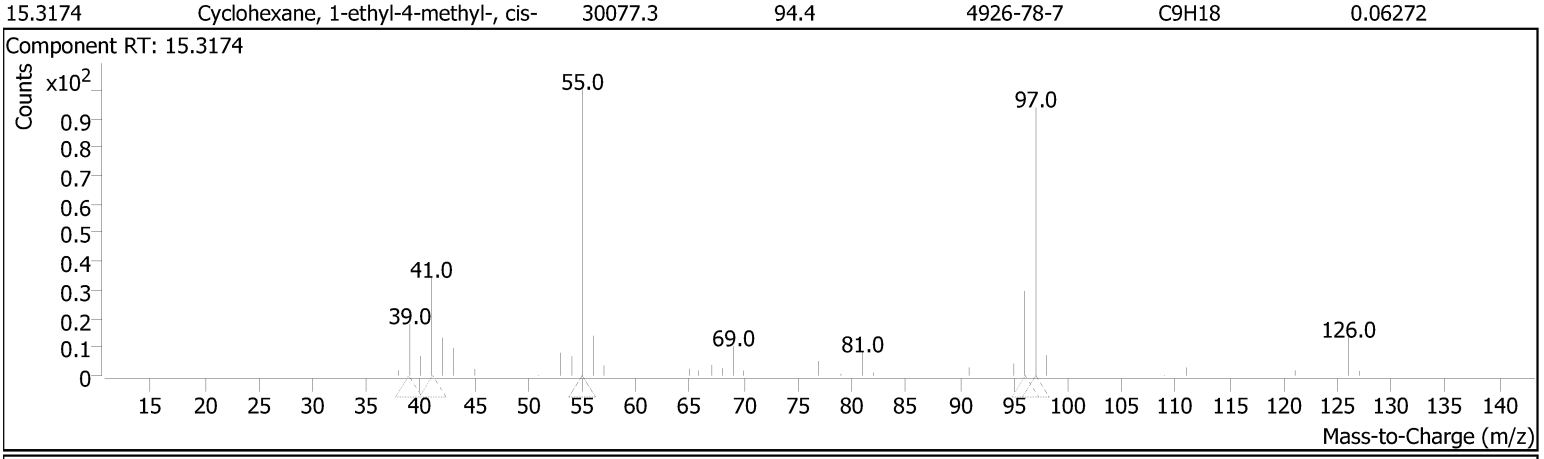



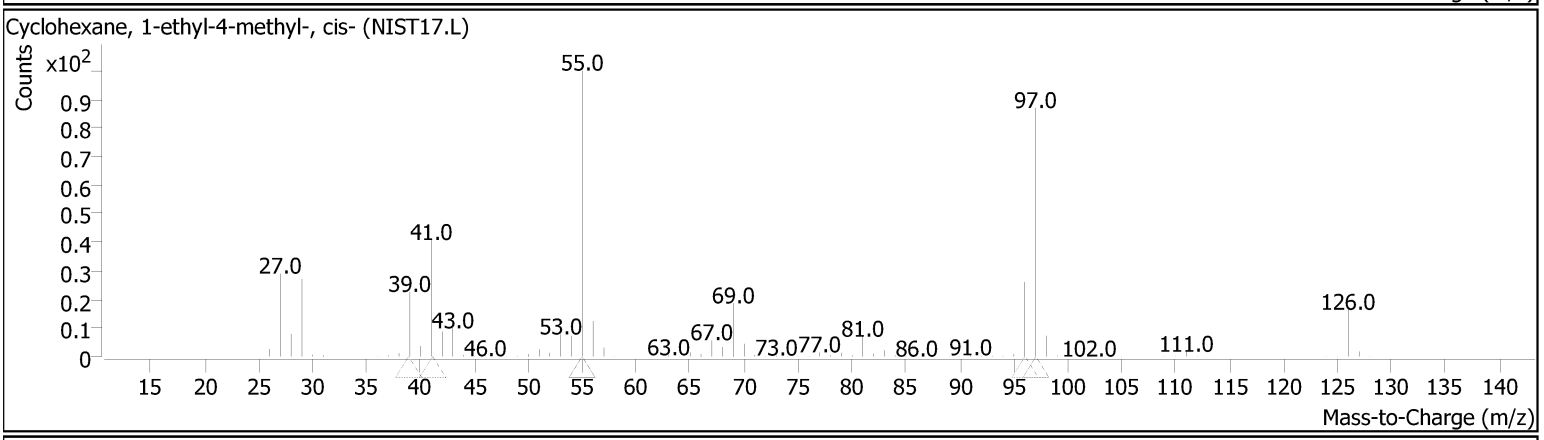



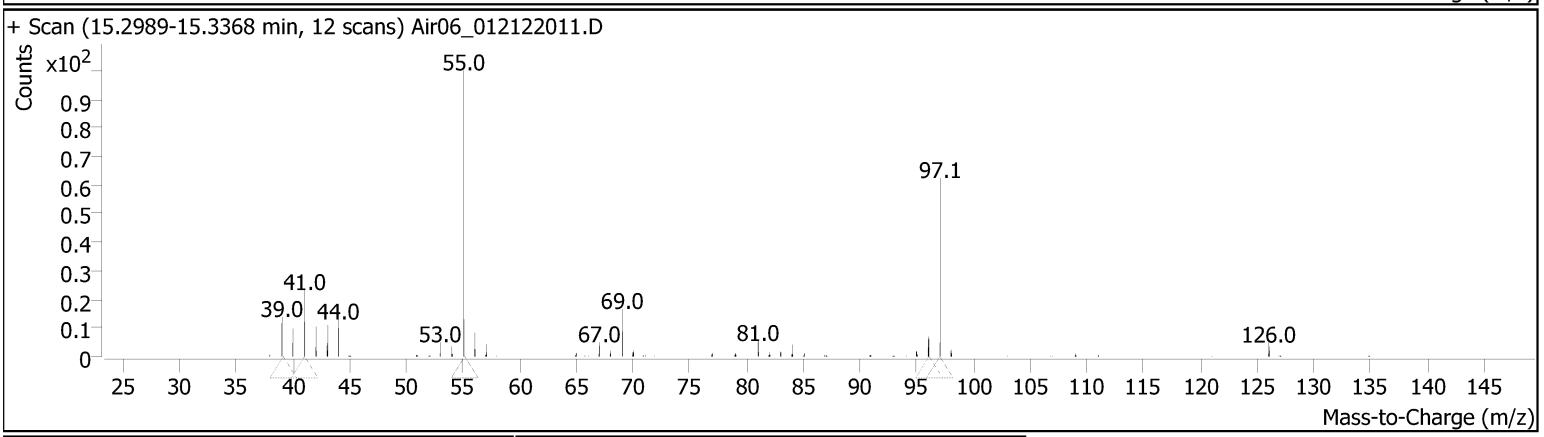



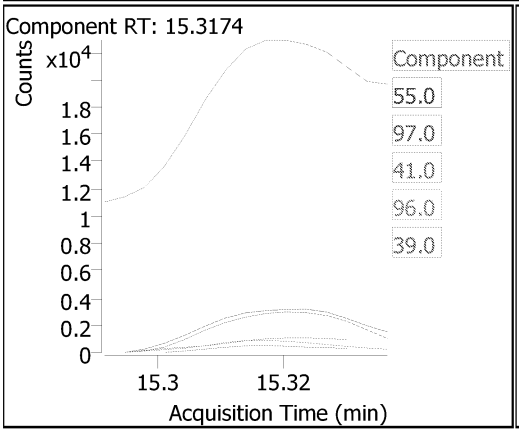



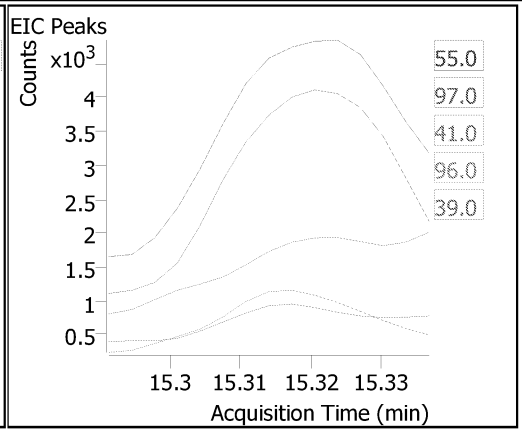
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3174 | Cyclohexane, 1-ethyl-4-methyl-, cis- | 30077.3 | 94.4 | 4926-78-7 | C9H18 | 0.06272 |

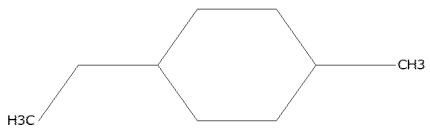


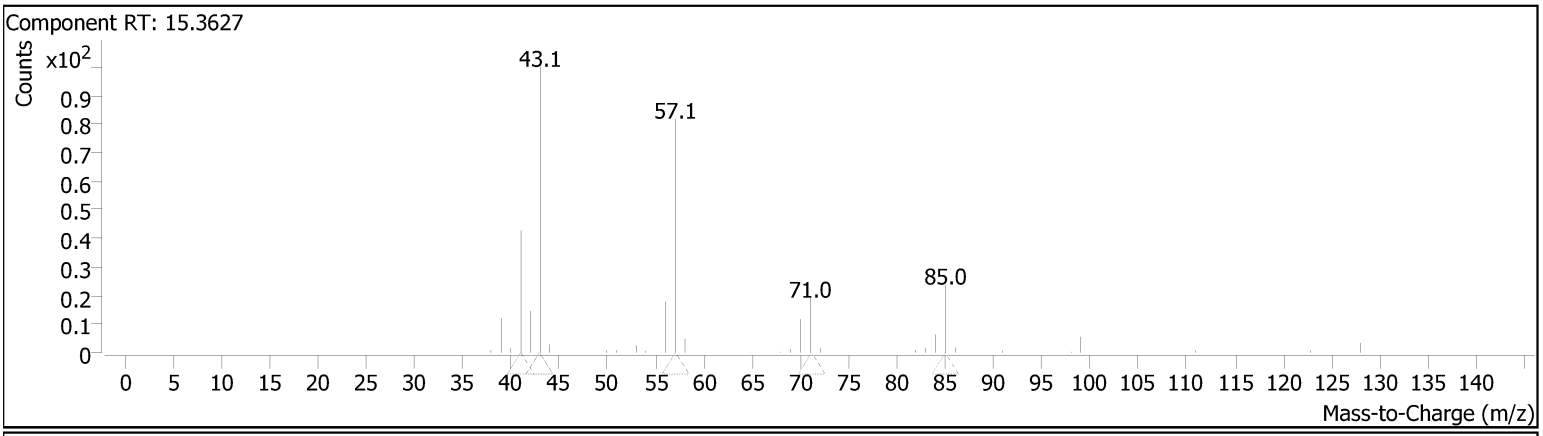



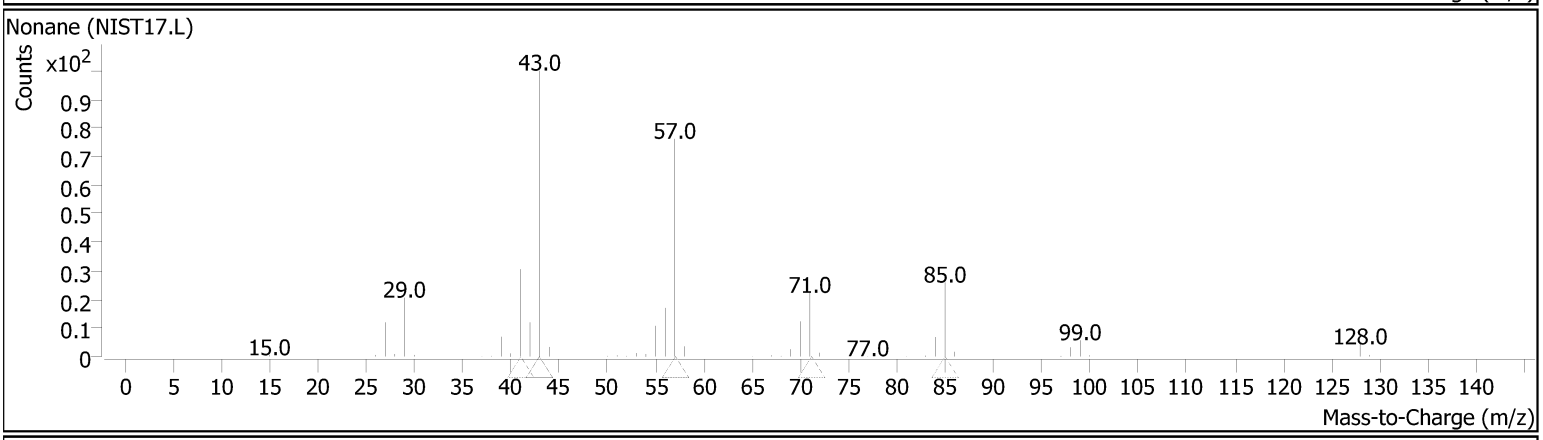



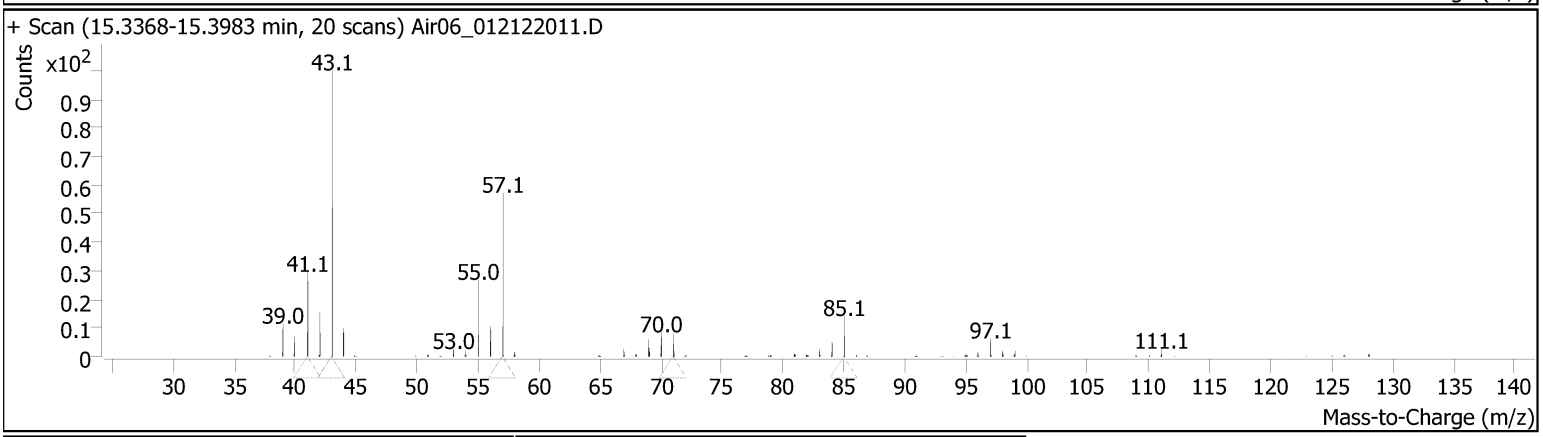



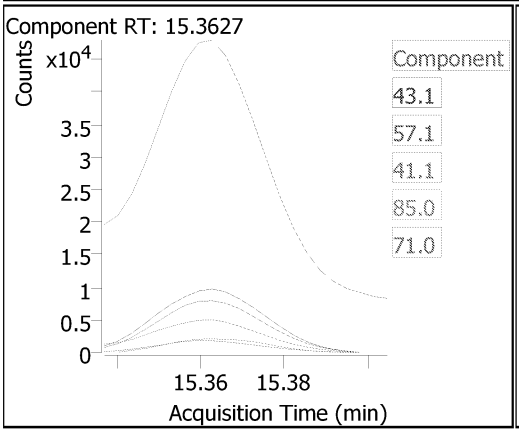



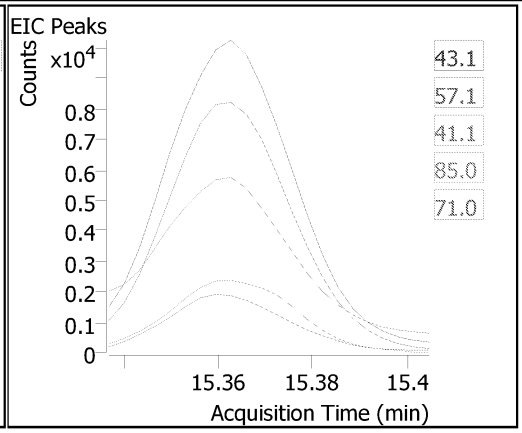
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3627 | Nonane | 78358.6 | 93.0 | 111-84-2 | C9H20 | 0.1634 |

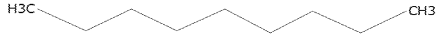


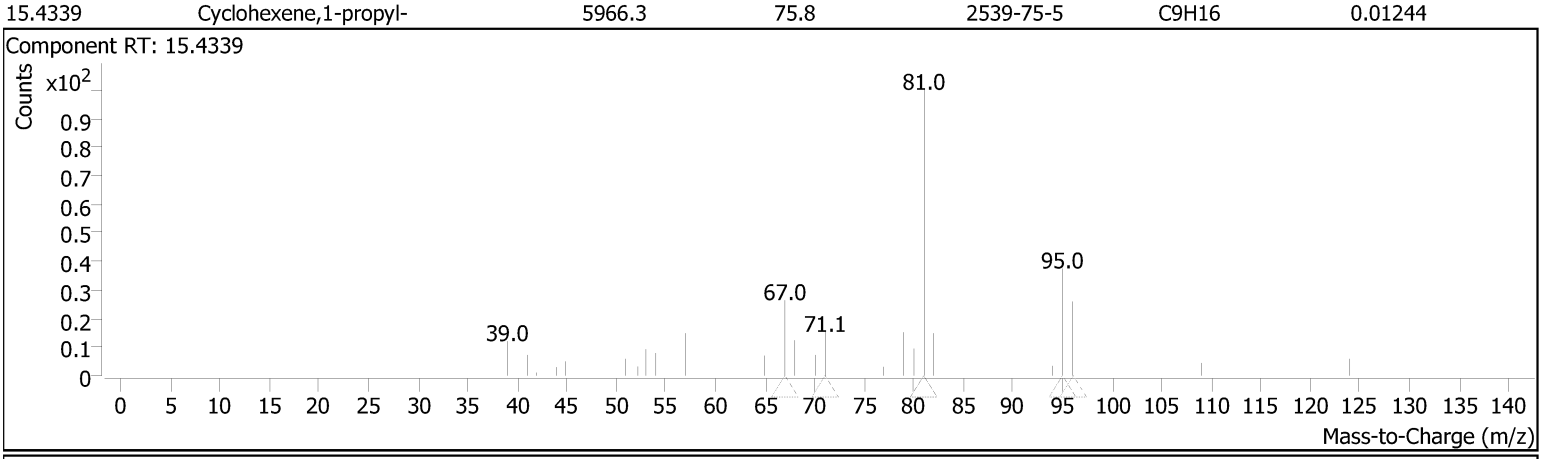



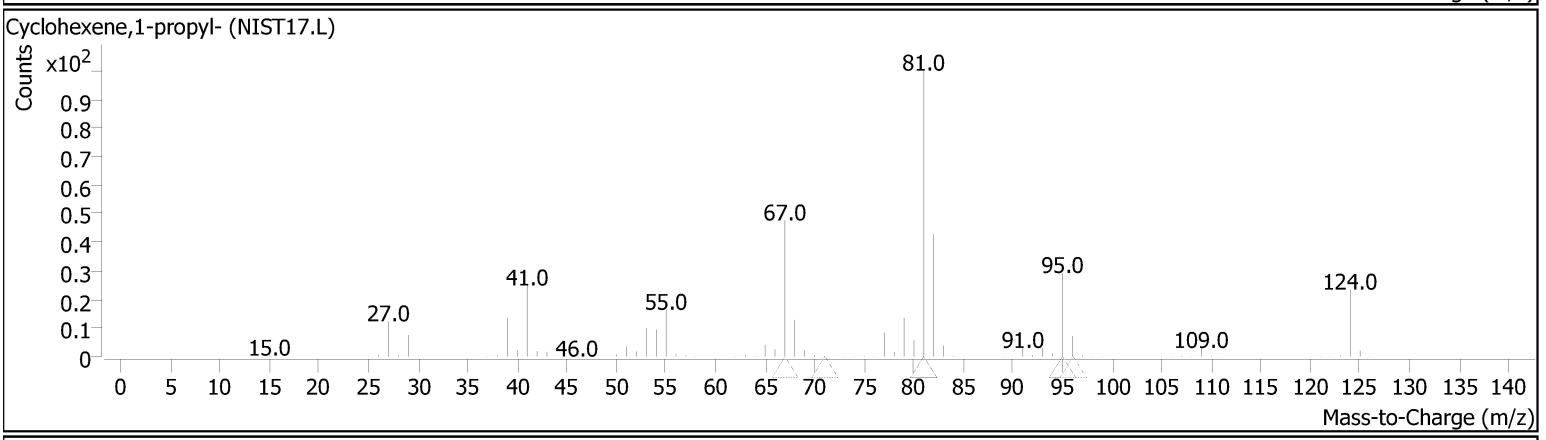



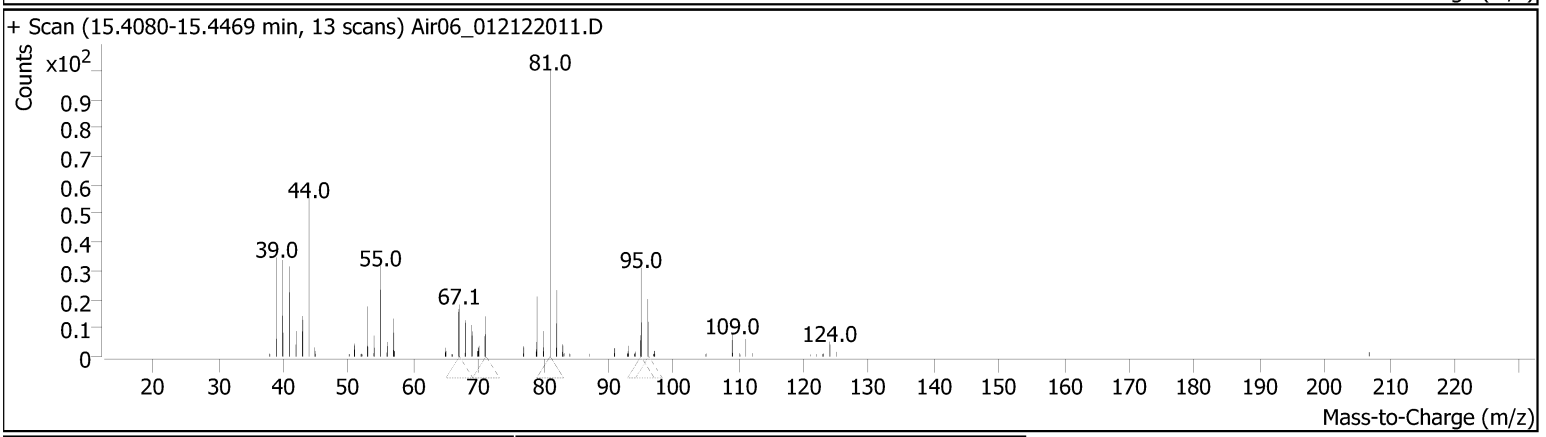



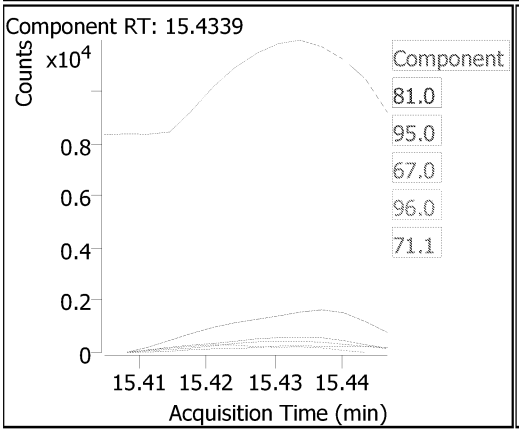



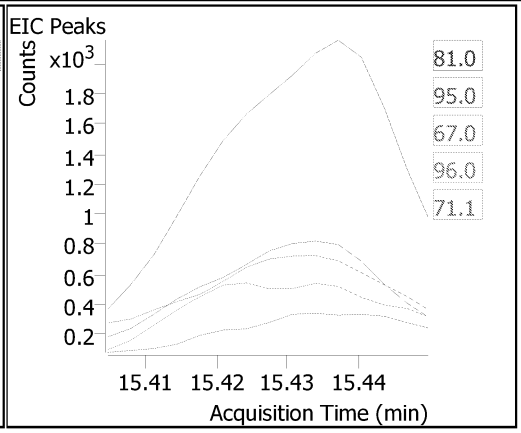
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.4339 | Cyclohexene,1-propyl- | 5966.3 | 75.8 | 2539-75-5 | C9H16 | 0.01244 |

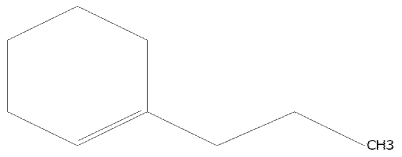


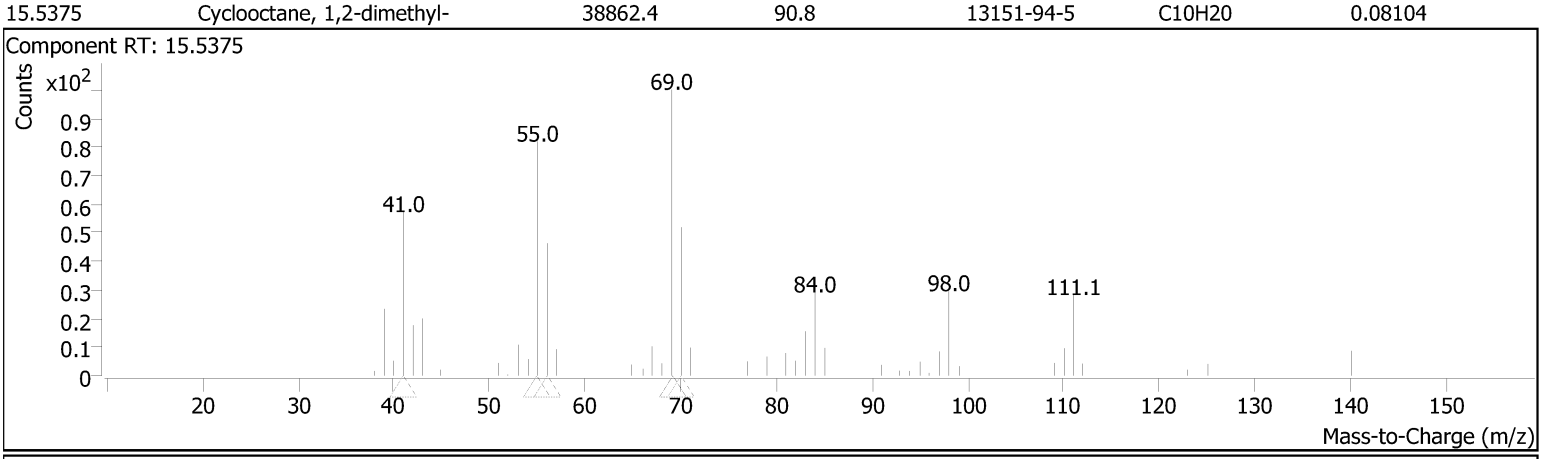



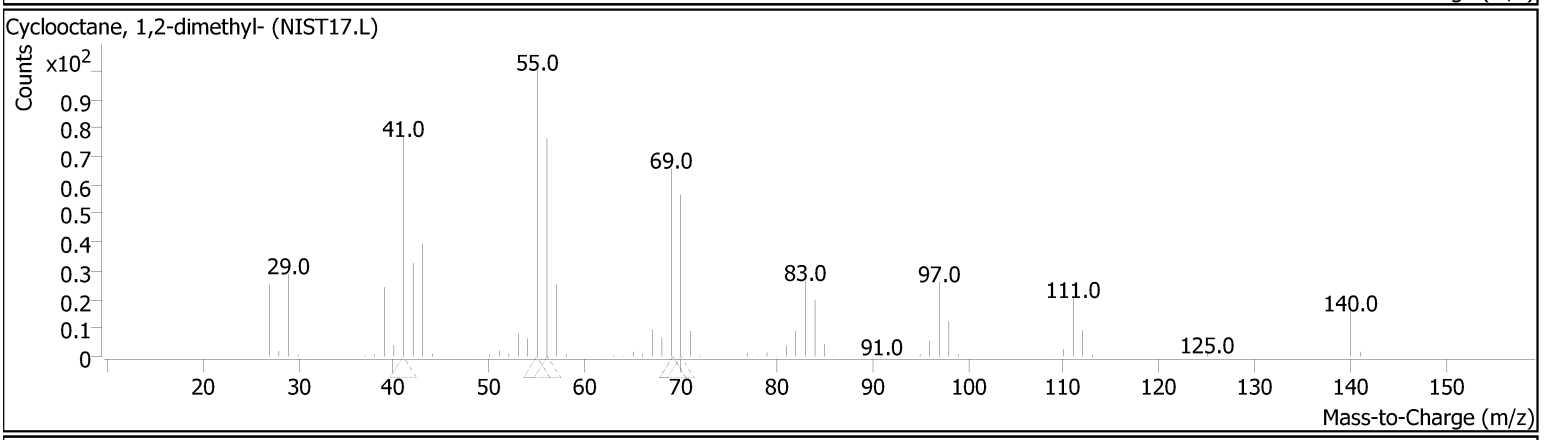



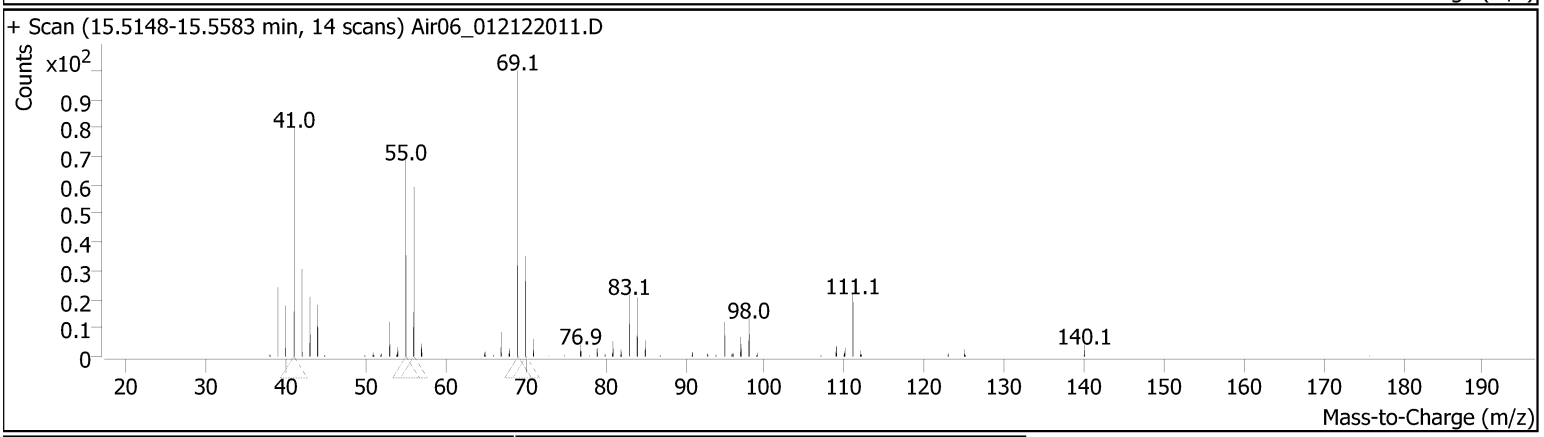



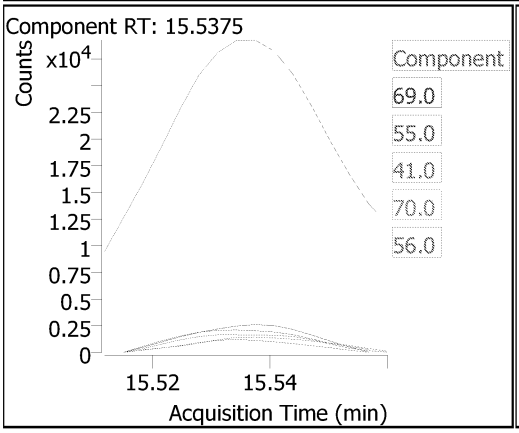



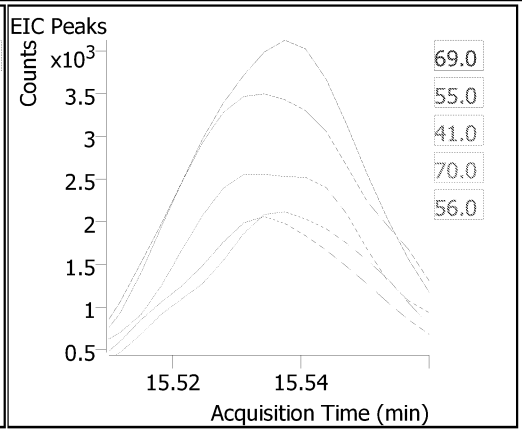
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.5375 | Cyclooctane, 1,2-dimethyl- | 38862.4 | 90.8 | 13151-94-5 | C10H20 | 0.08104 |

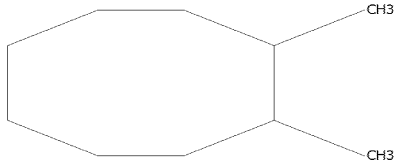


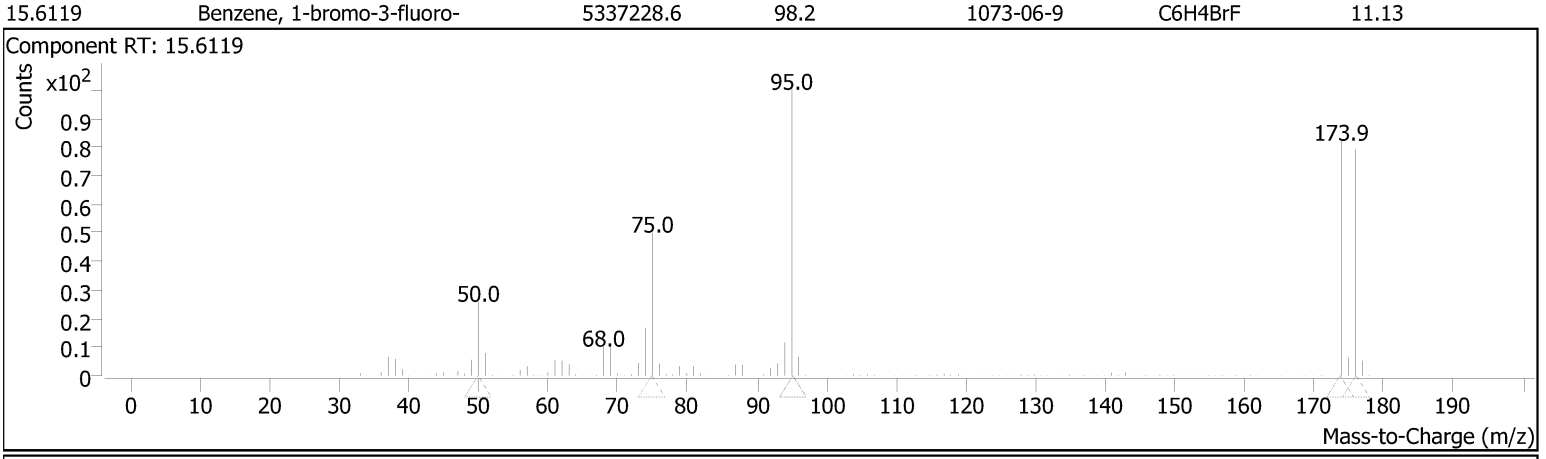



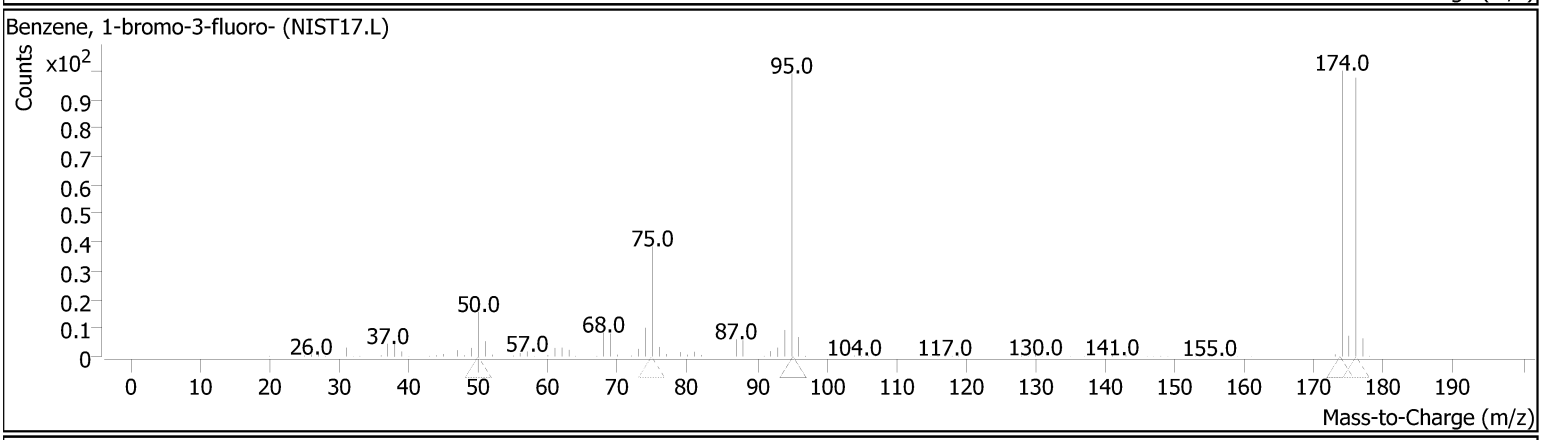



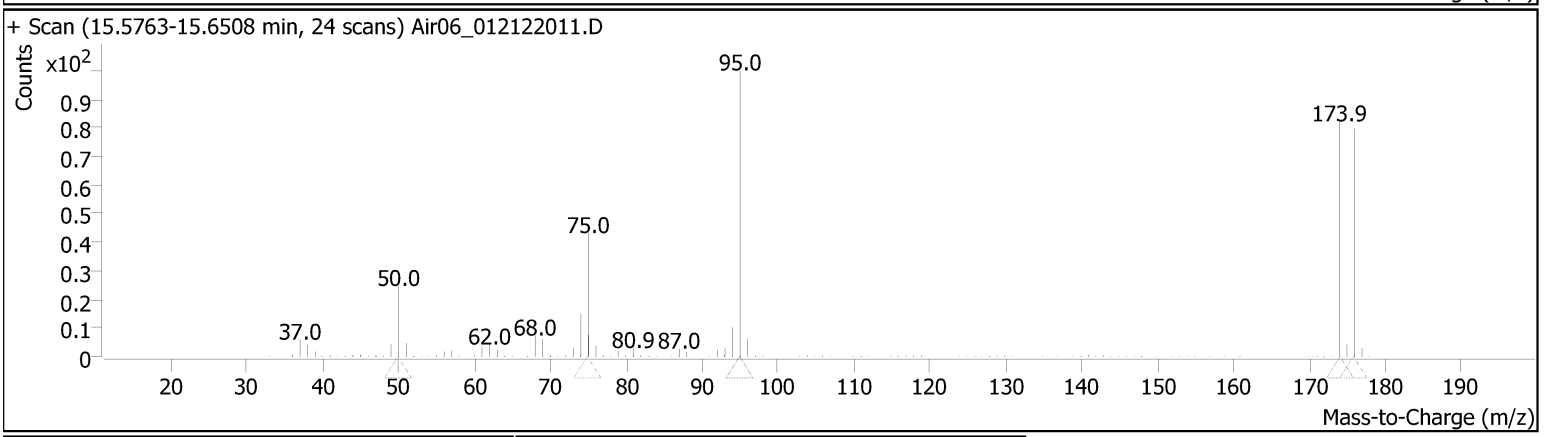



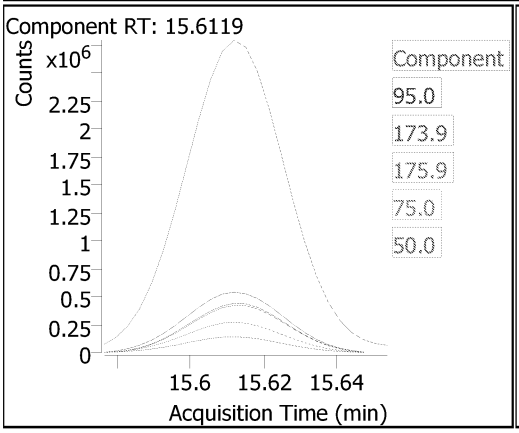



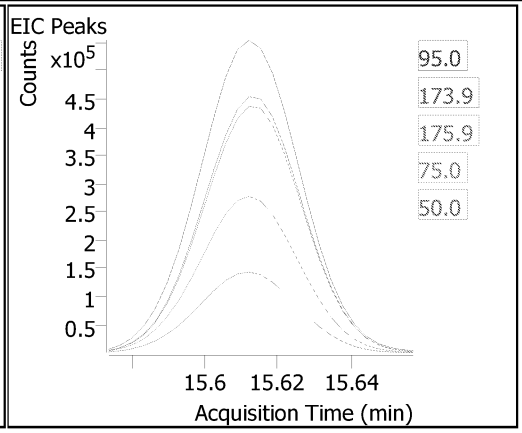
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6119 | Benzene, 1-bromo-3-fluoro- | 5337228.6 | 98.2 | 1073-06-9 | C6H4BrF | 11.13 |

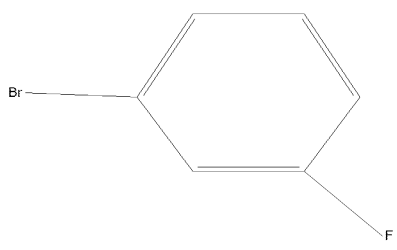


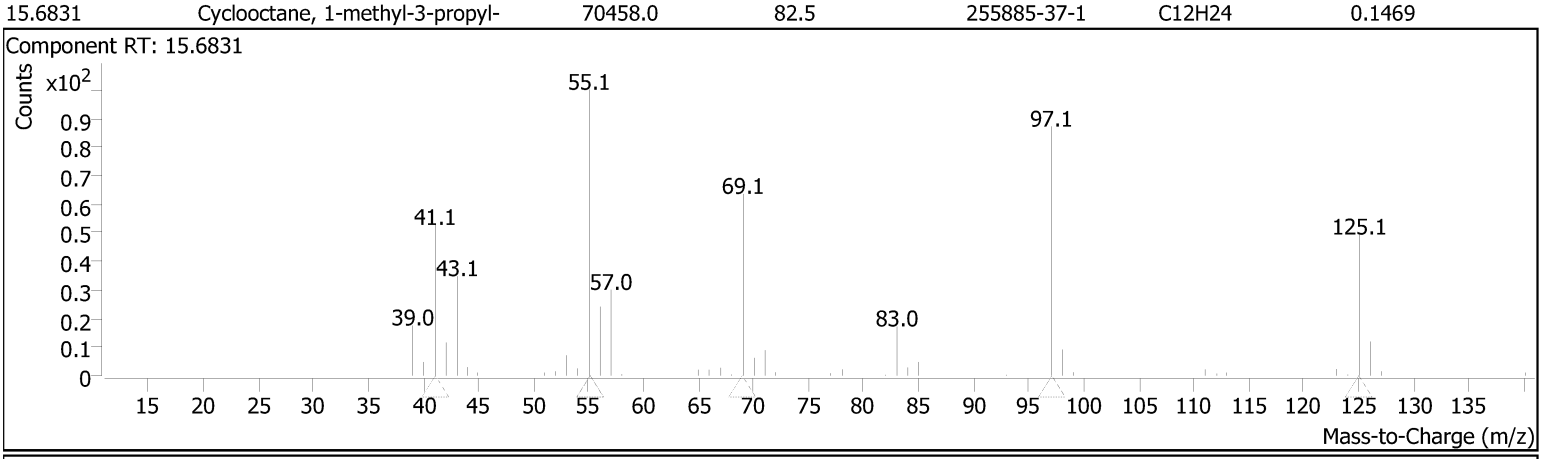



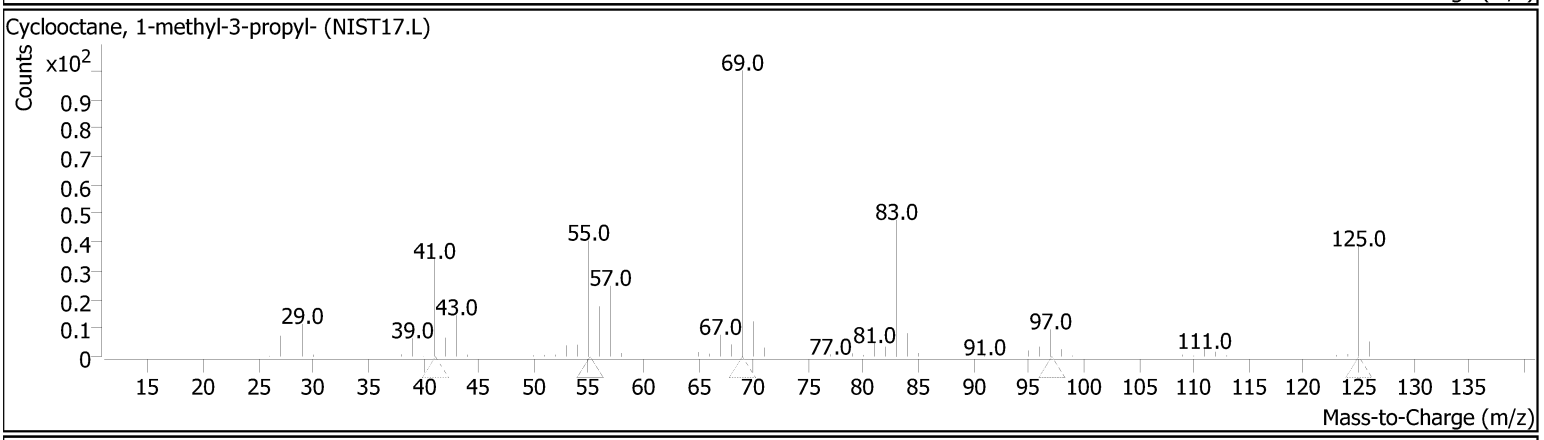



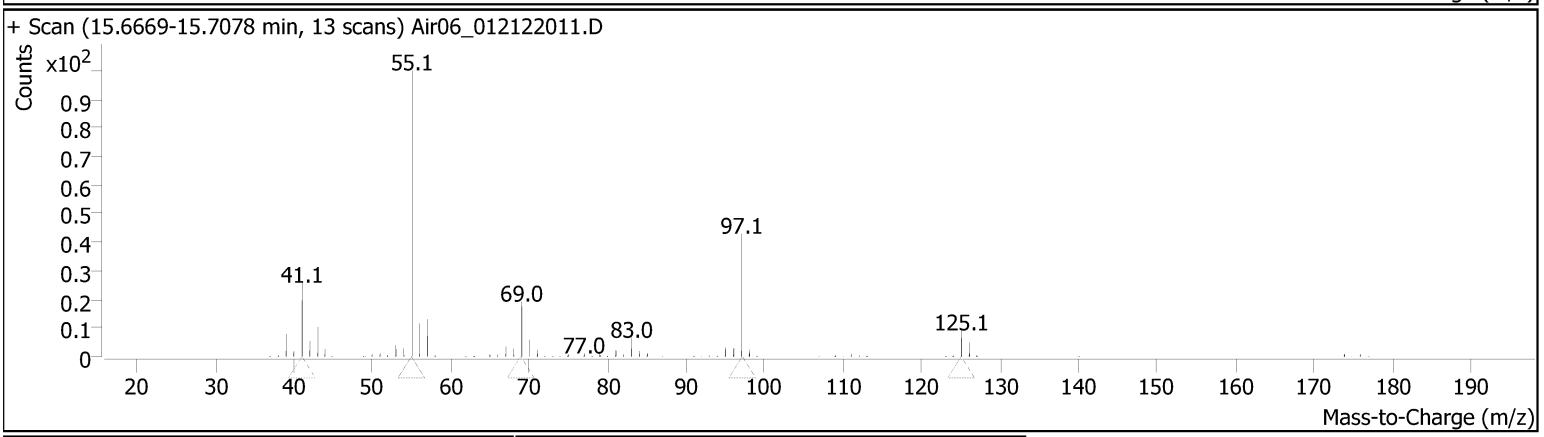



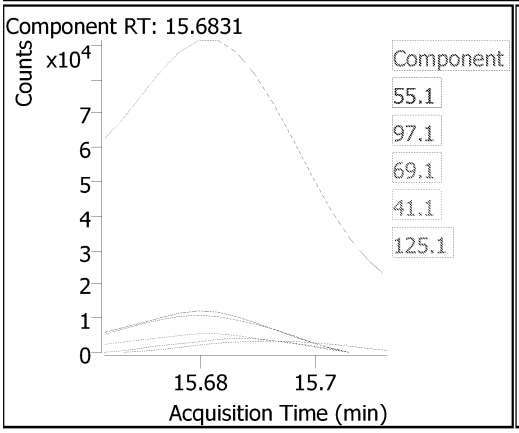



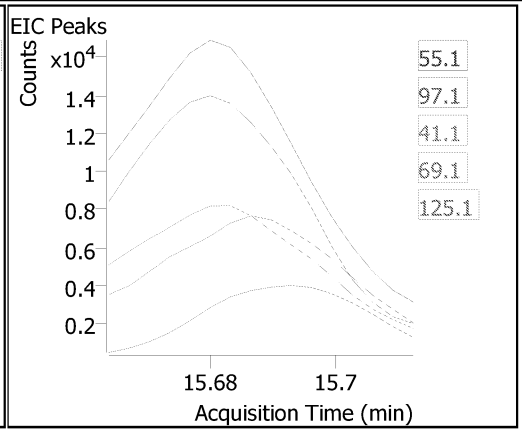
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6831 | Cyclooctane, 1-methyl-3-propyl- | 70458.0 | 82.5 | 255885-37-1 | C12H24 | 0.1469 |

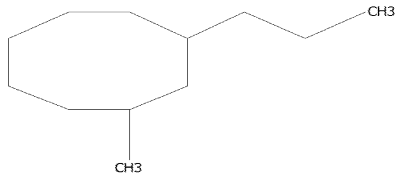


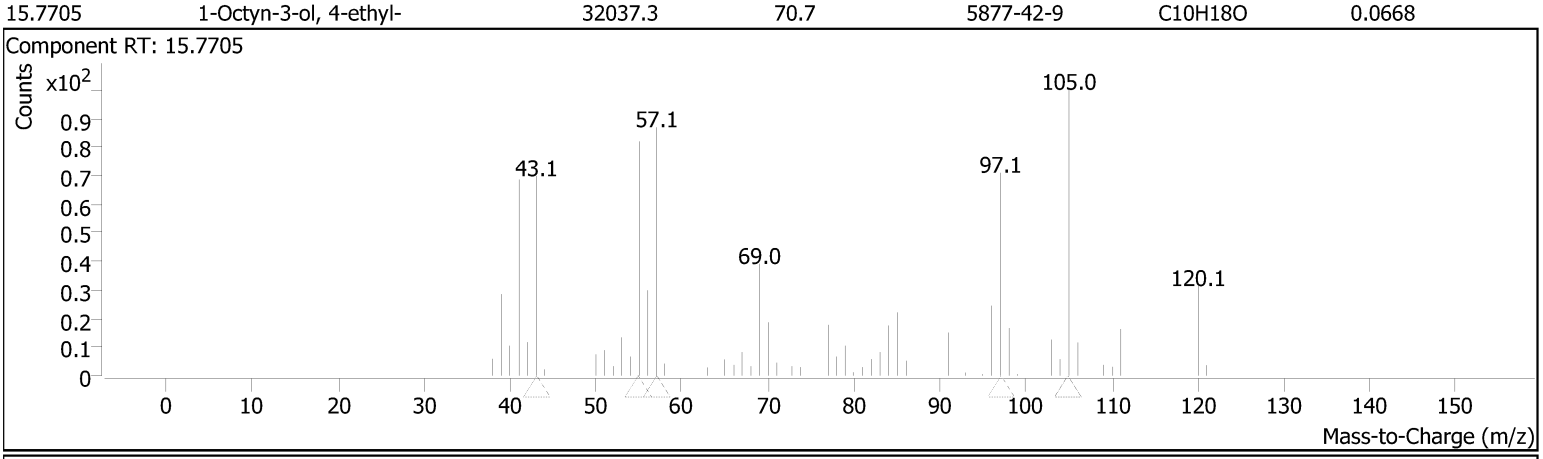



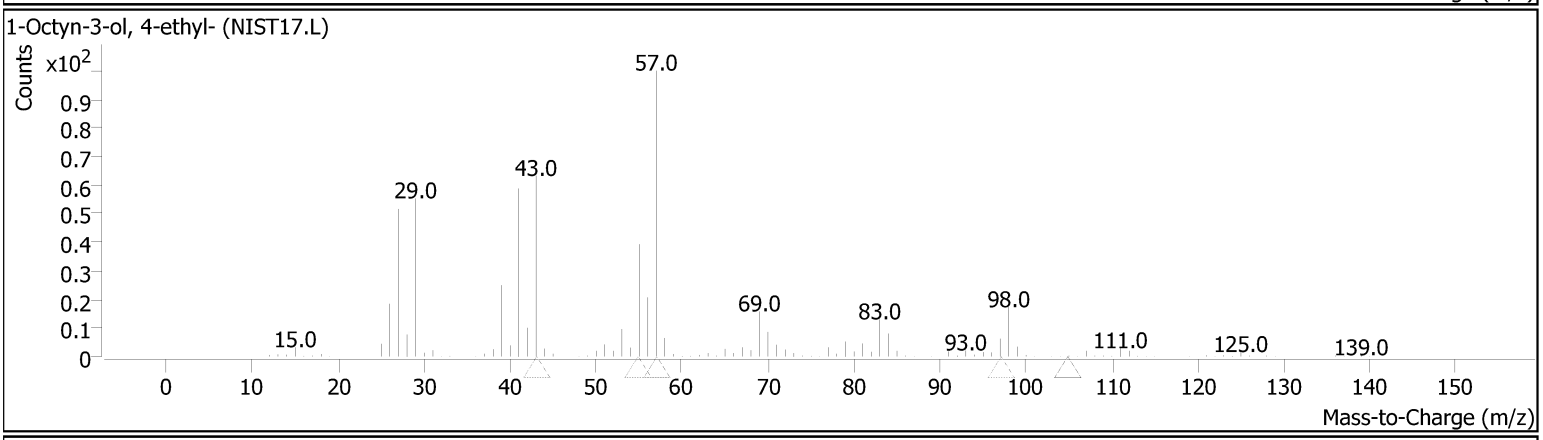



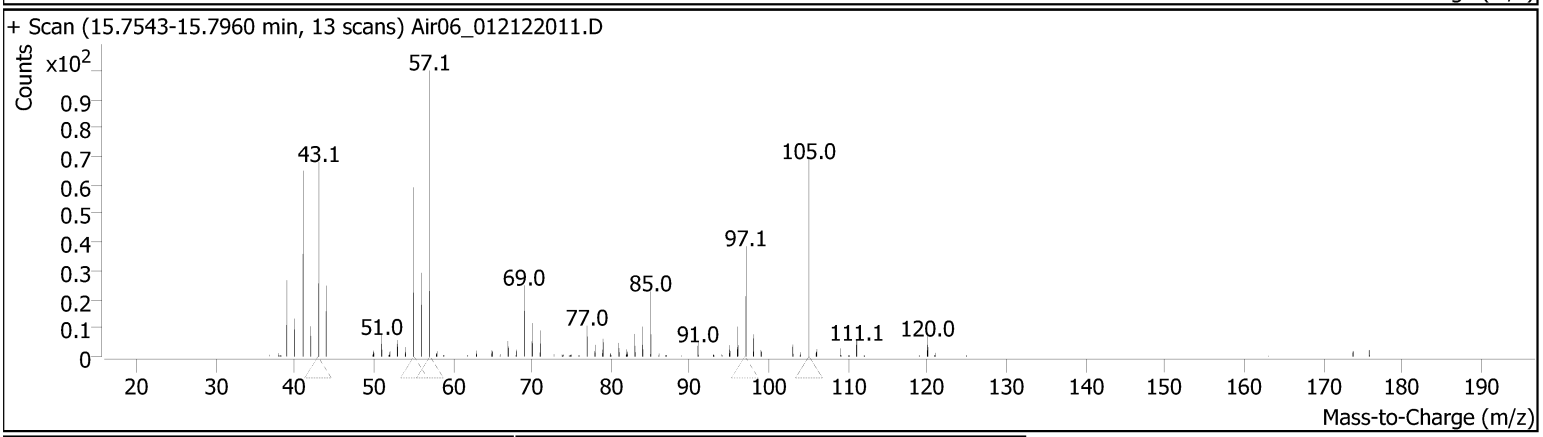



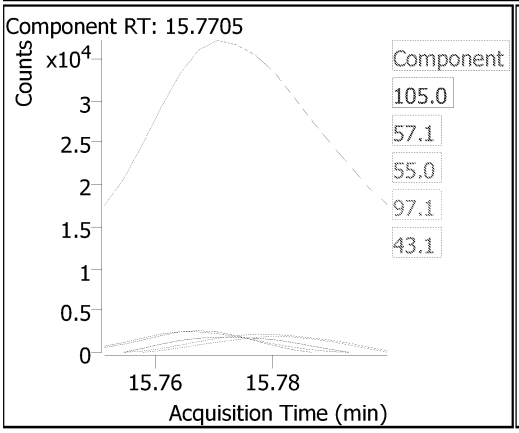



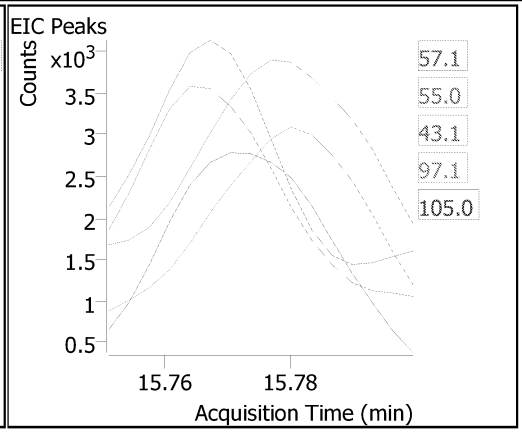
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.7705 | 1-Octyn-3-ol, 4-ethyl- | 32037.3 | 70.7 | 5877-42-9 | C10H18O | 0.0668 |

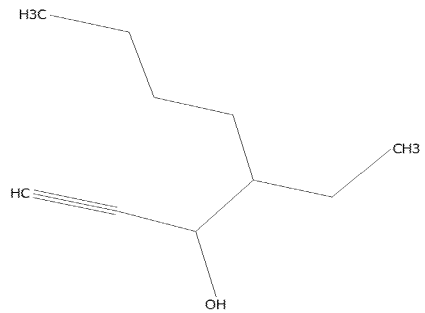


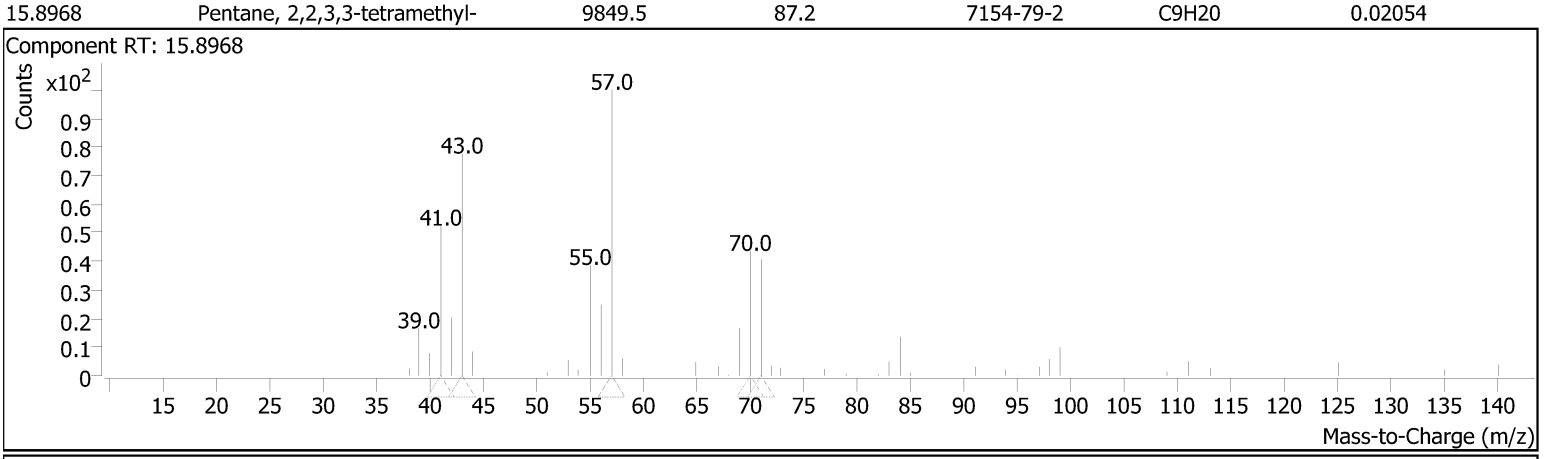



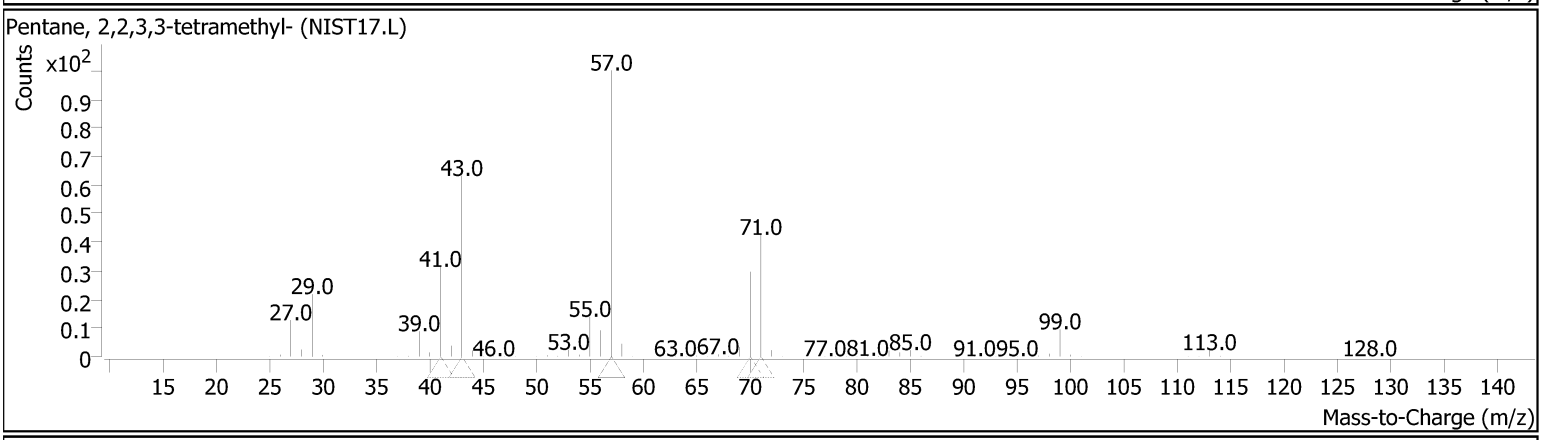



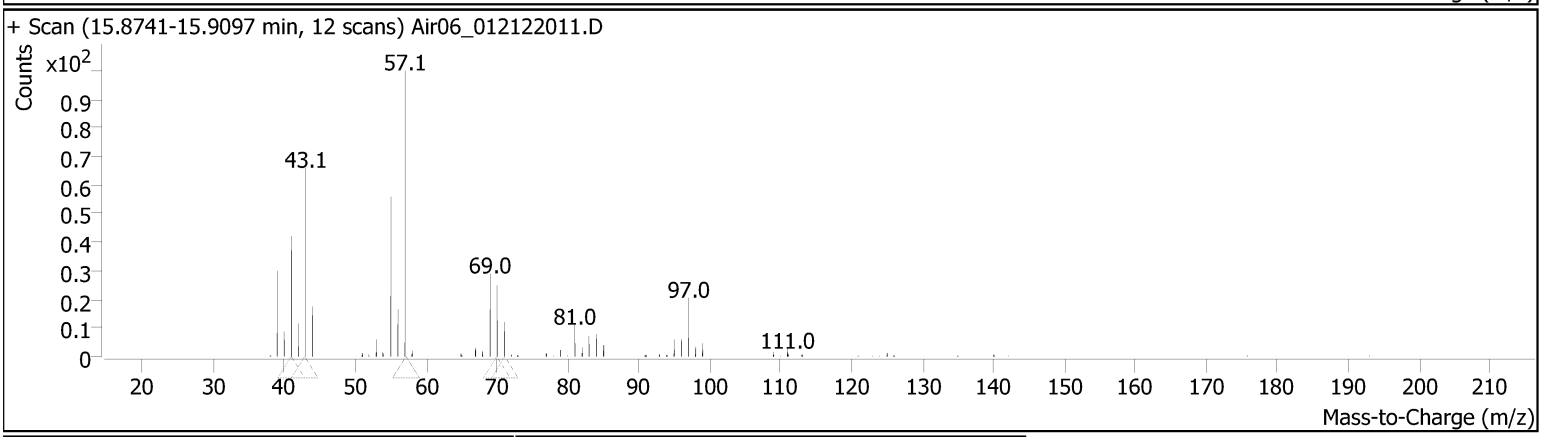



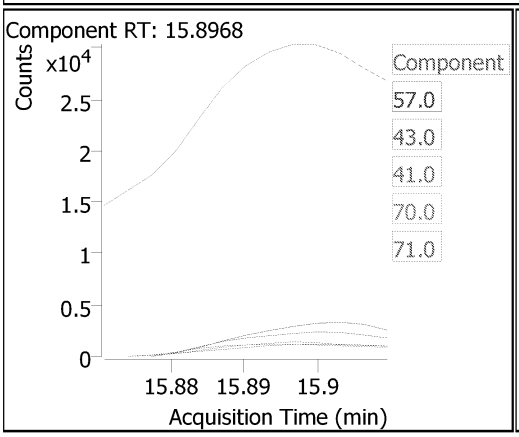



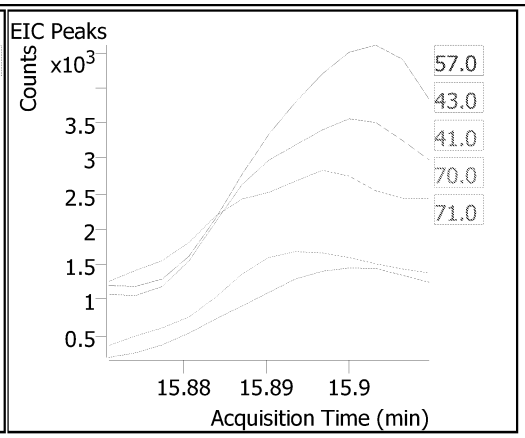
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.8968 | Pentane, 2,2,3,3-tetramethyl- | 9849.5 | 87.2 | 7154-79-2 | C9H20 | 0.02054 |

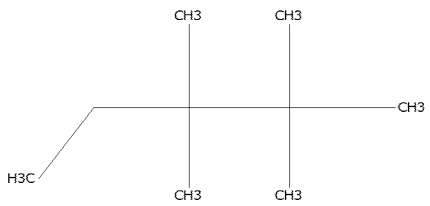


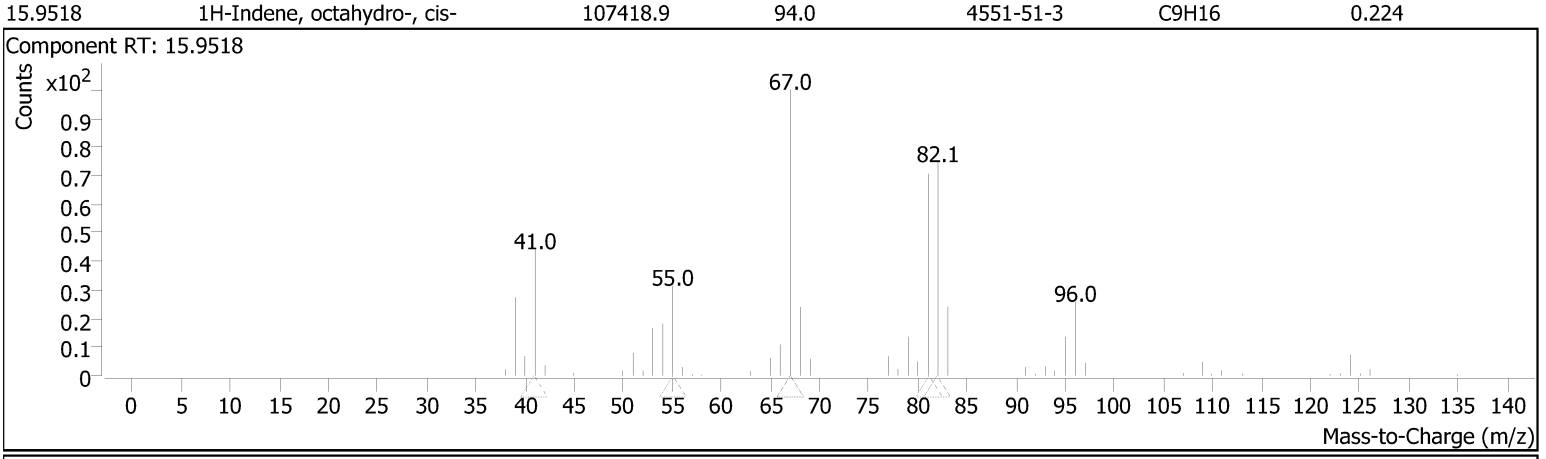



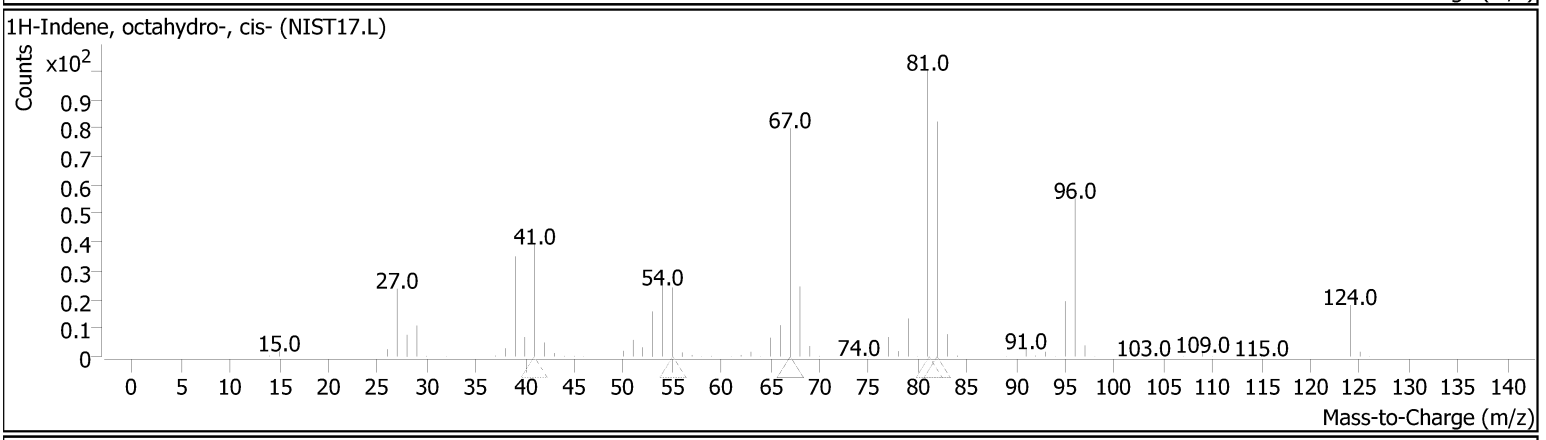



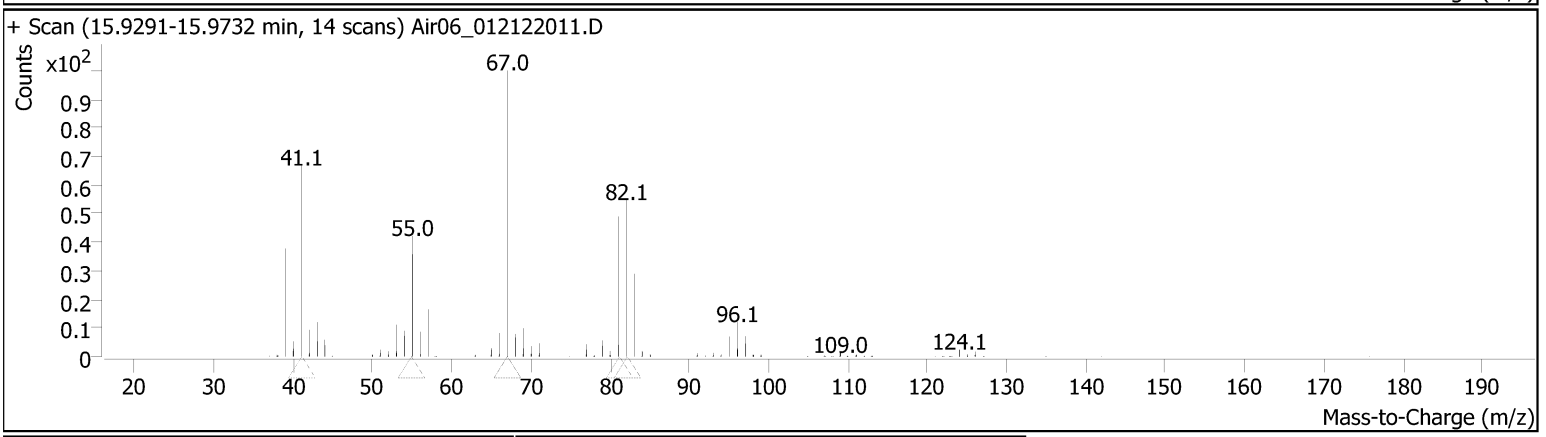



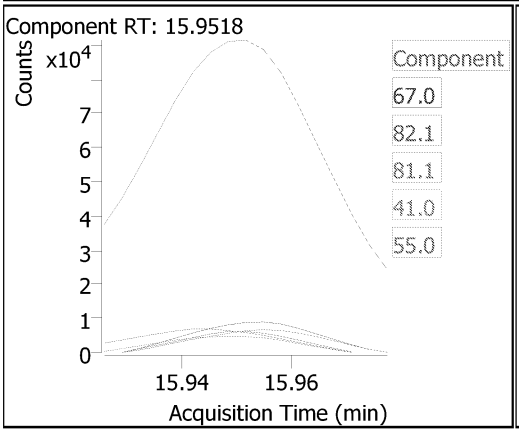



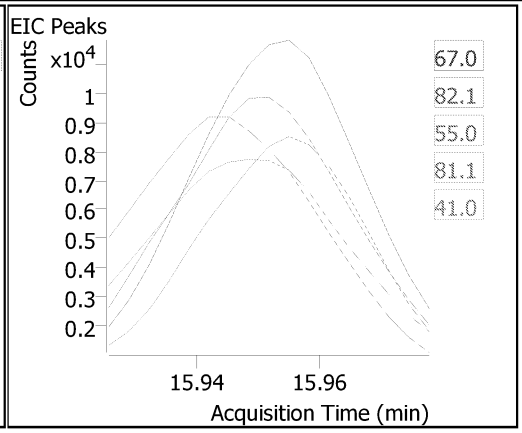
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.9518 | 1H-Indene, octahydro-, cis- | 107418.9 | 94.0 | 4551-51-3 | C9H16 | 0.224 |



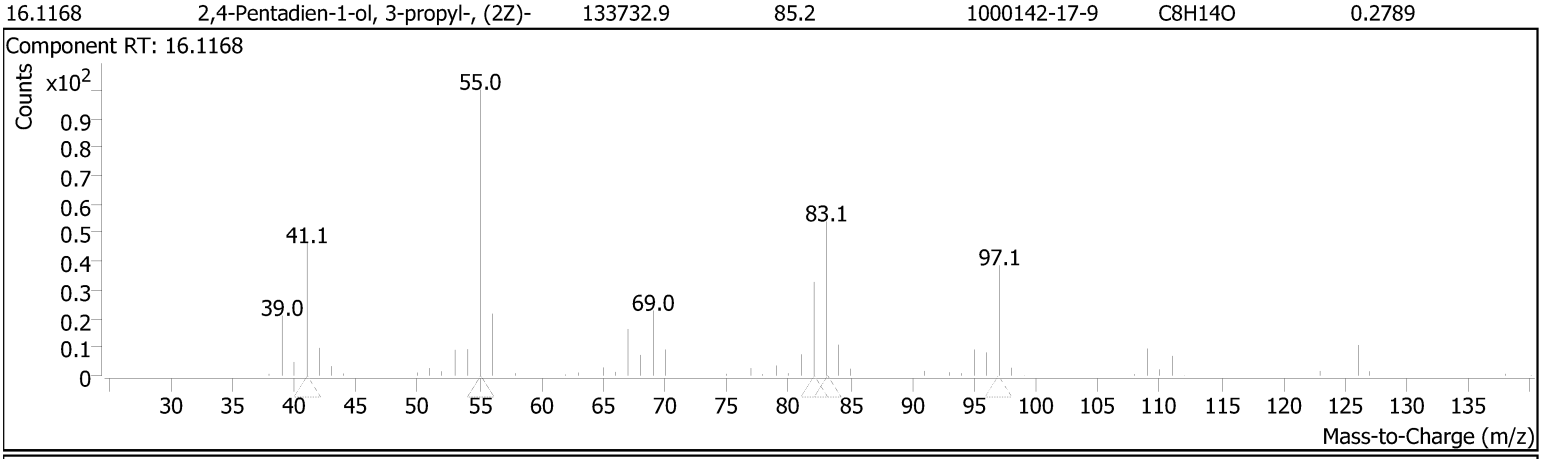



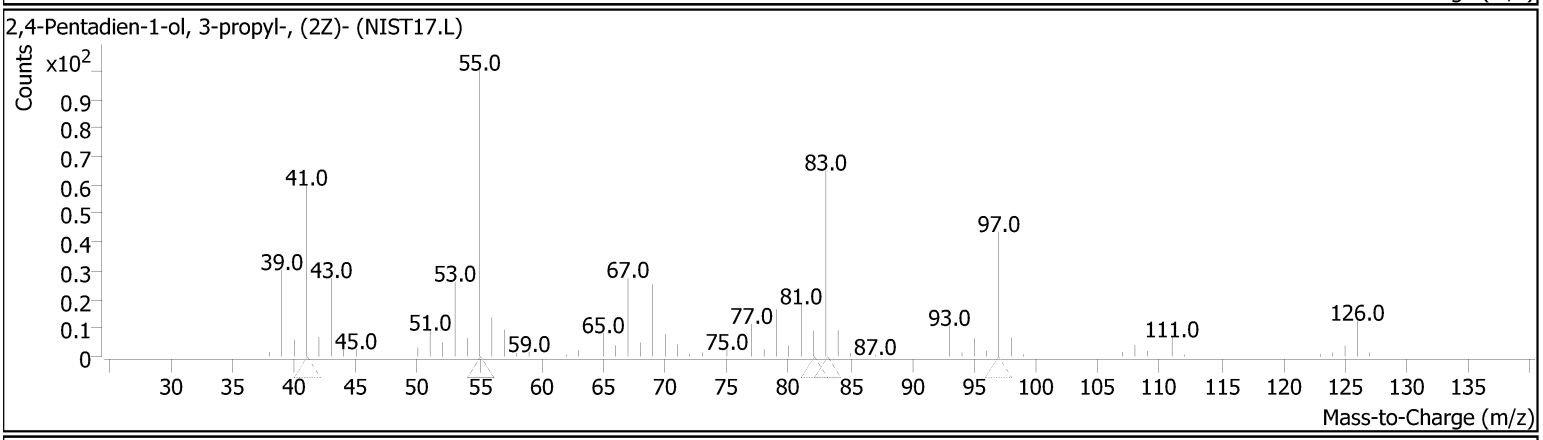



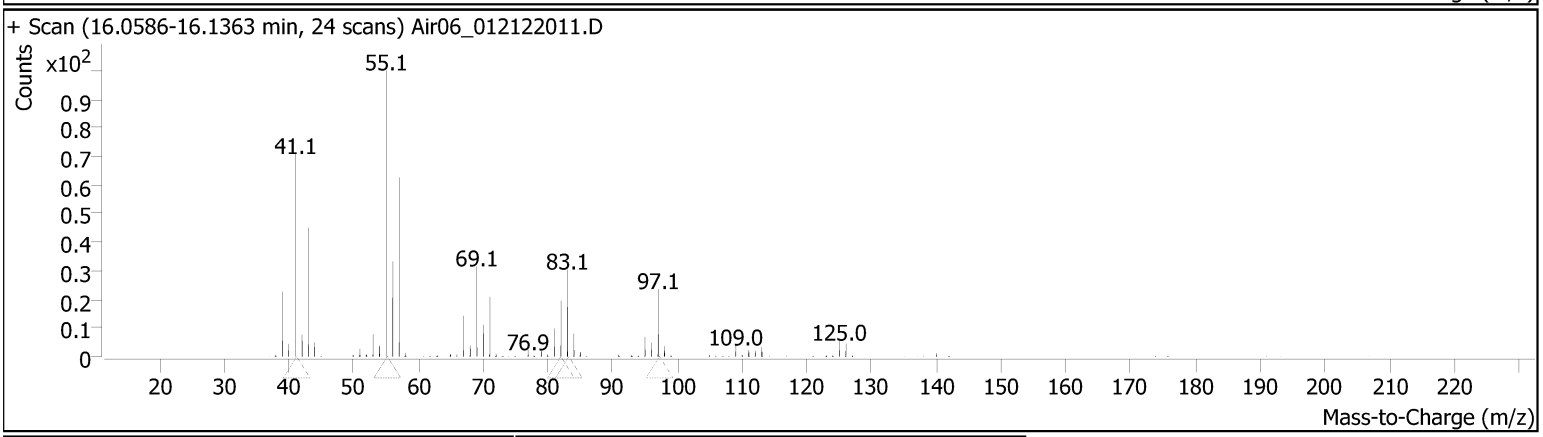
# Library Search Results - NonTarget Hits with Details

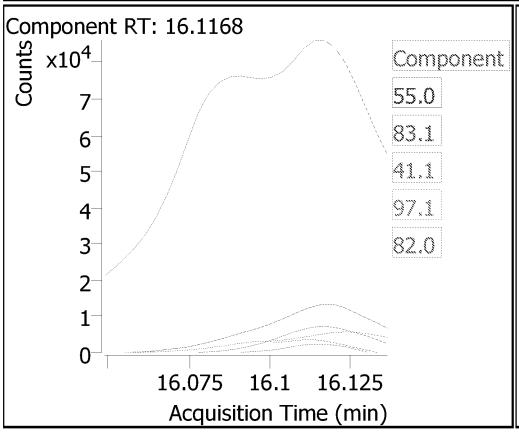
Agilent Technologies

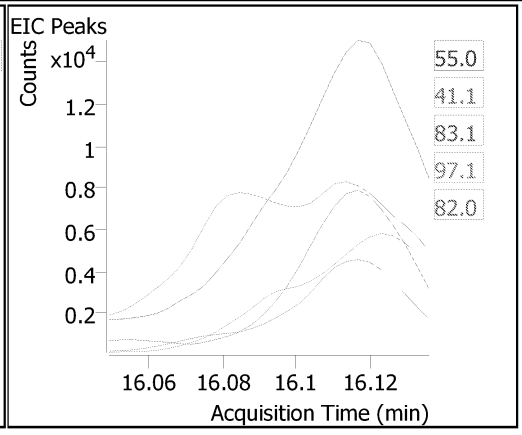
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1168 | 2,4-Pentadien-1-ol, 3-propyl-, (2Z)- | 133732.9 | 85.2 | 1000142-17-9 | C8H14O | 0.2789 |

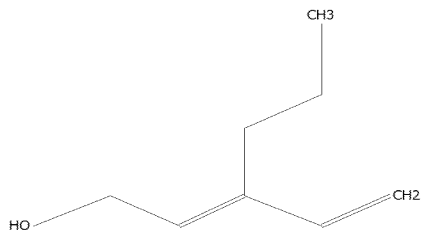


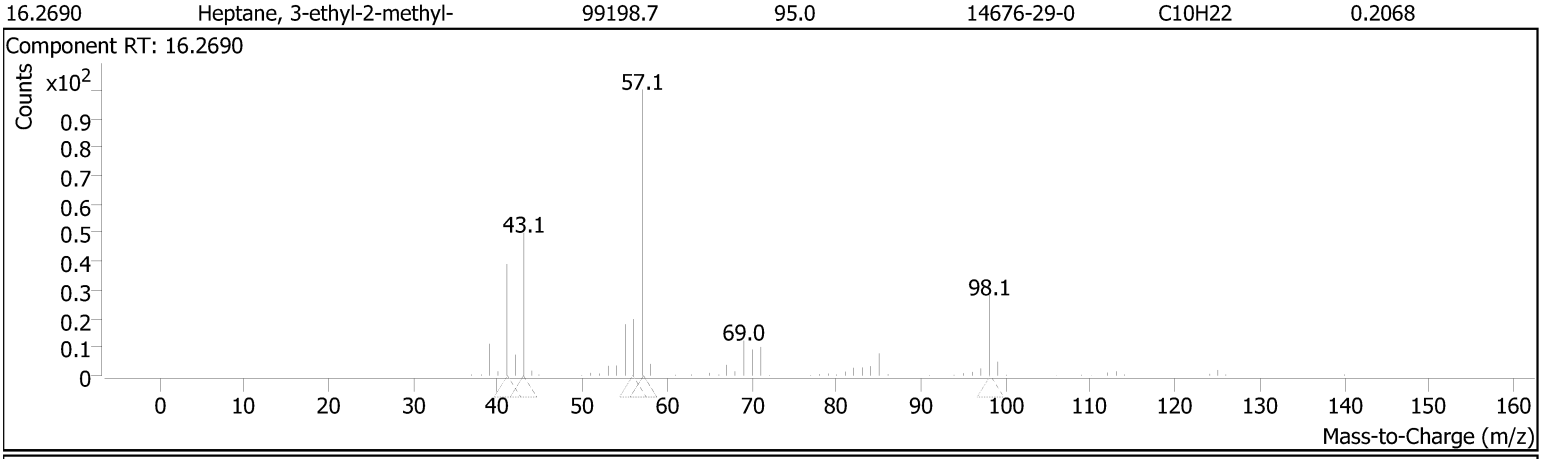



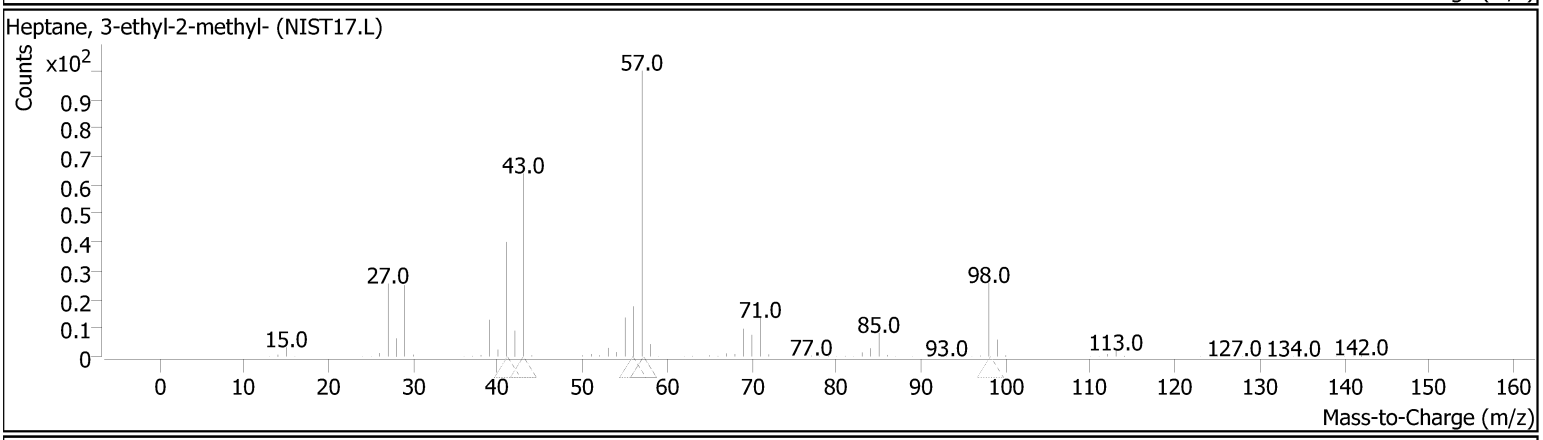



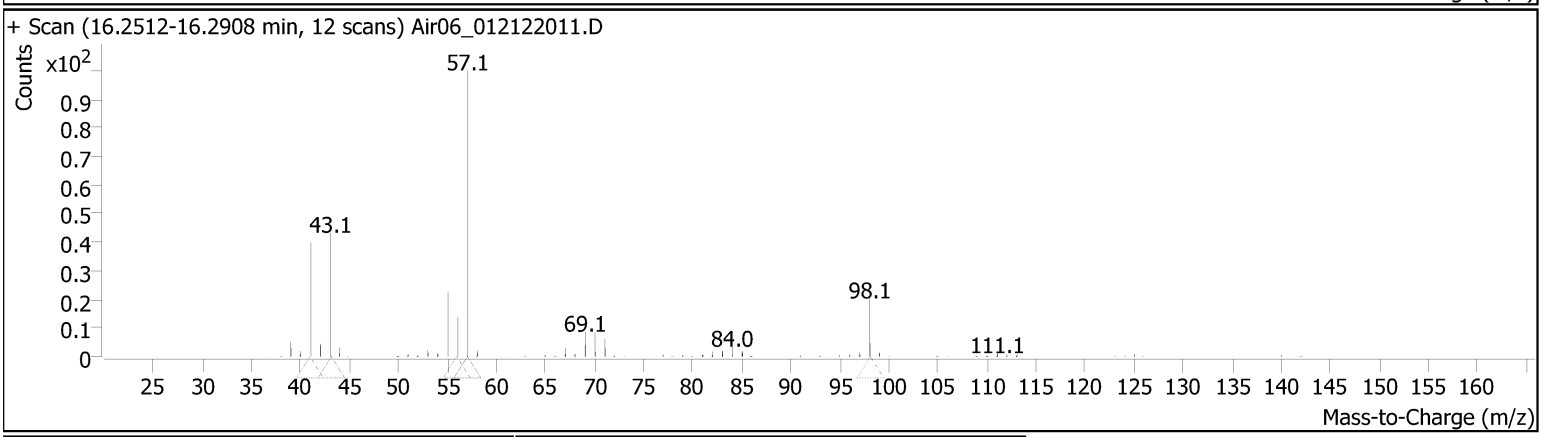



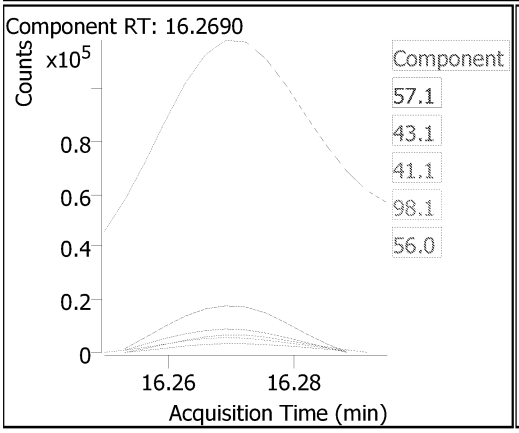



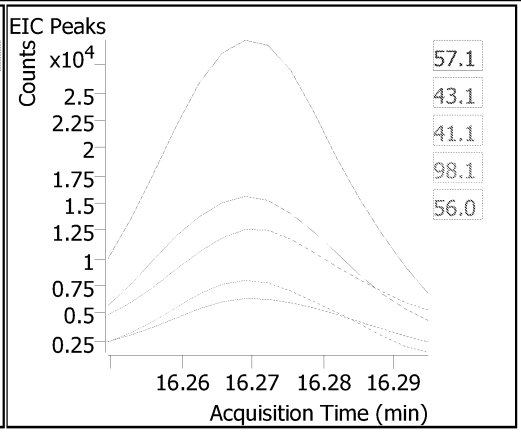
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.2690 | Heptane, 3-ethyl-2-methyl- | 99198.7 | 95.0 | 14676-29-0 | C10H22 | 0.2068 |

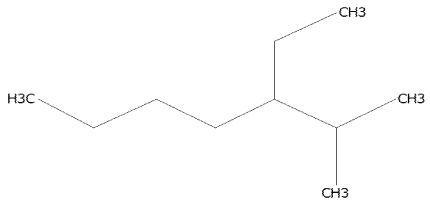


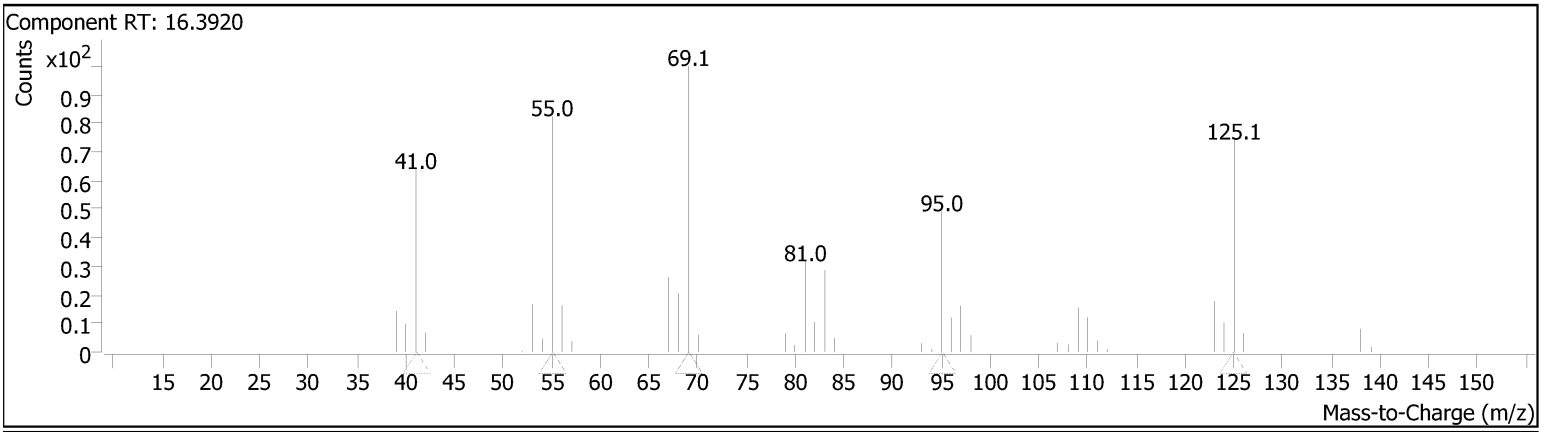



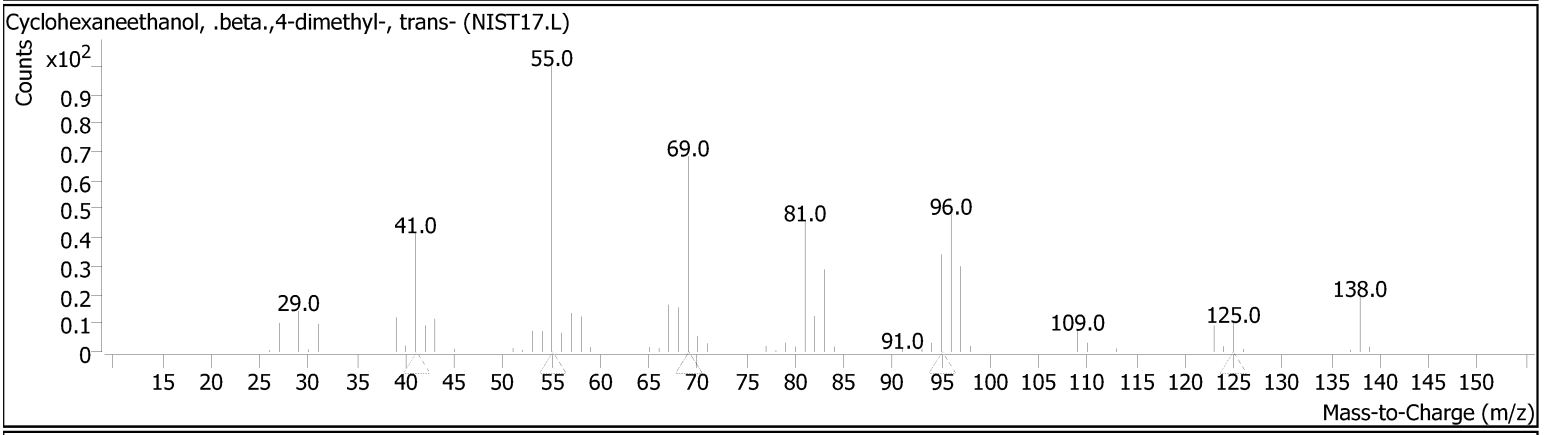



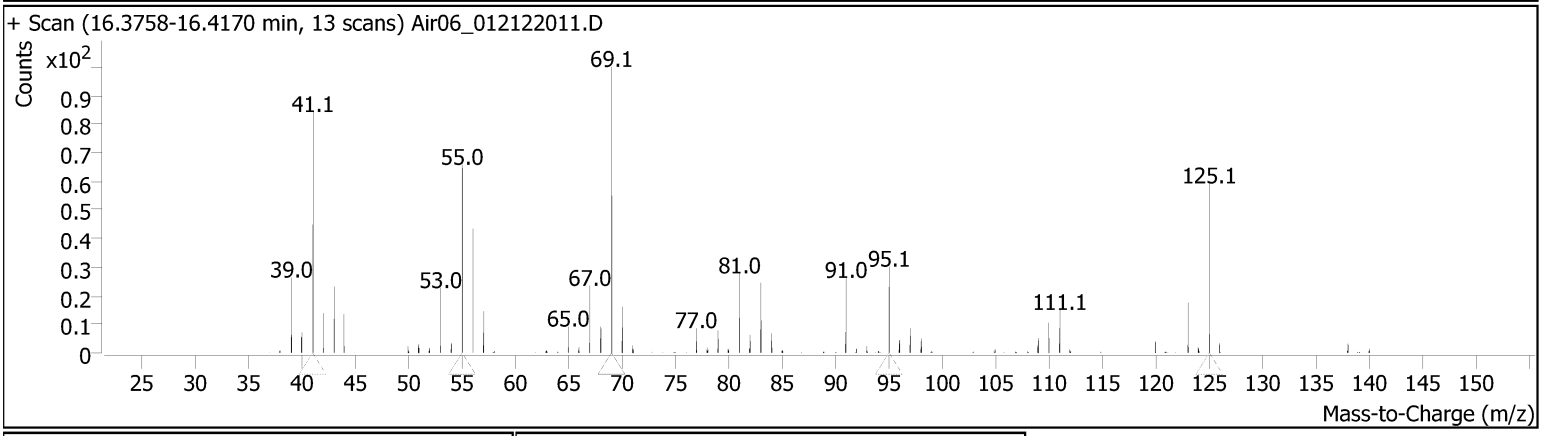



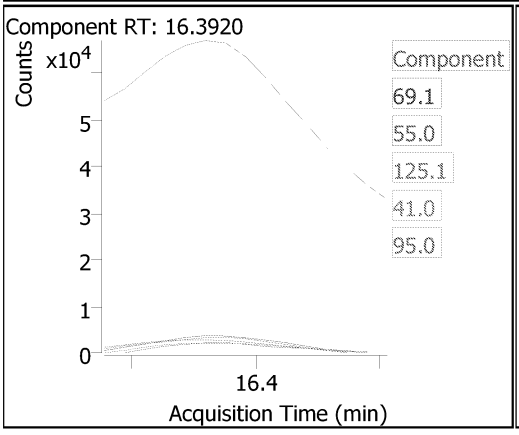



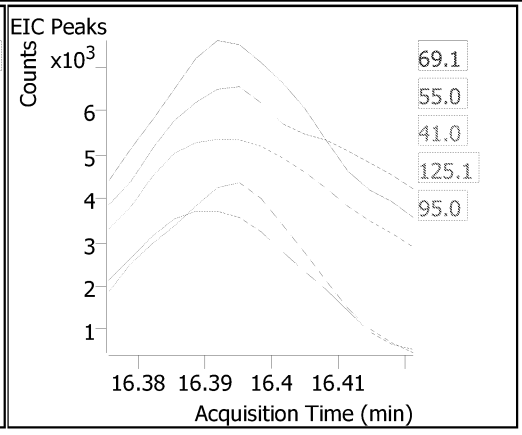
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.3920 | Cyclohexaneethanol, .beta.,4-dimethyl-, trans- | 31029.0 | 82.8 | 5113-94-0 | C10H20O | 0.0647 |

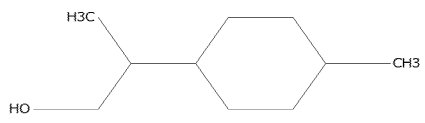


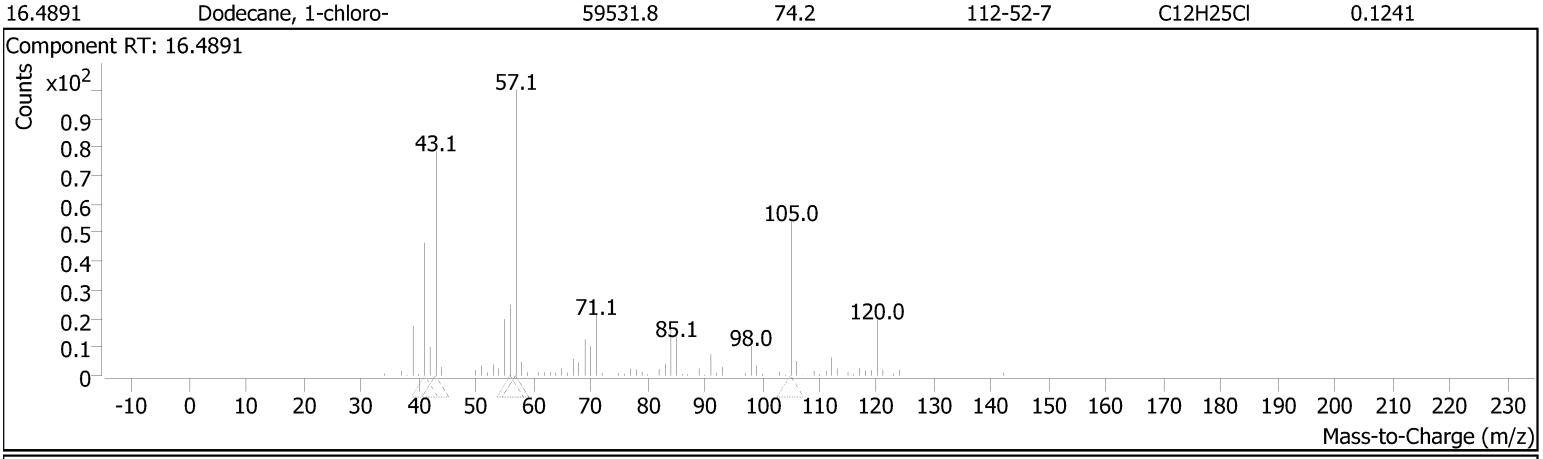



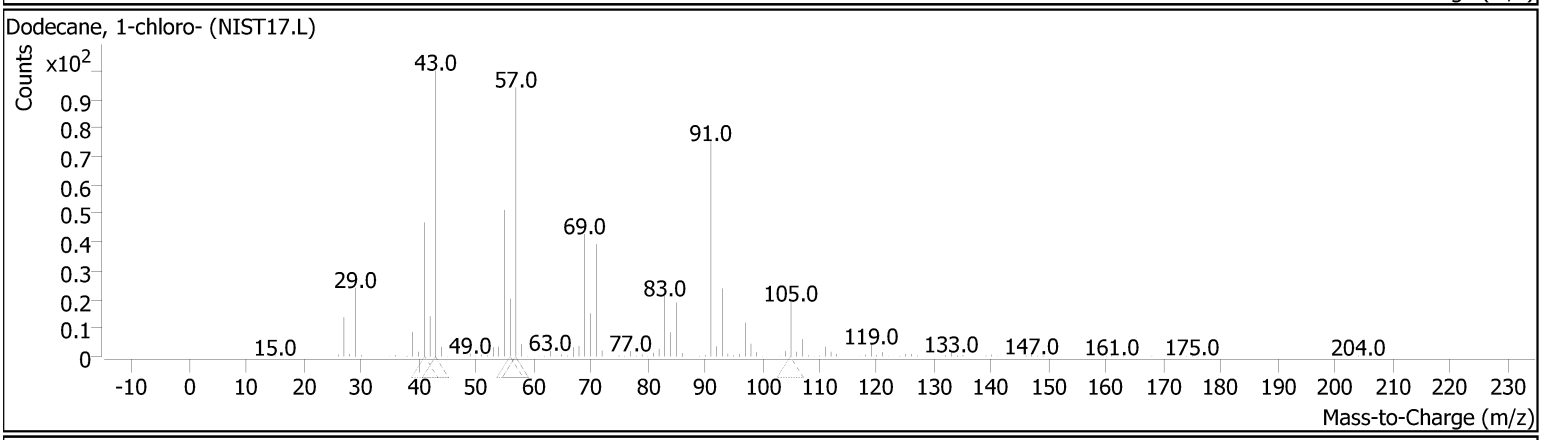



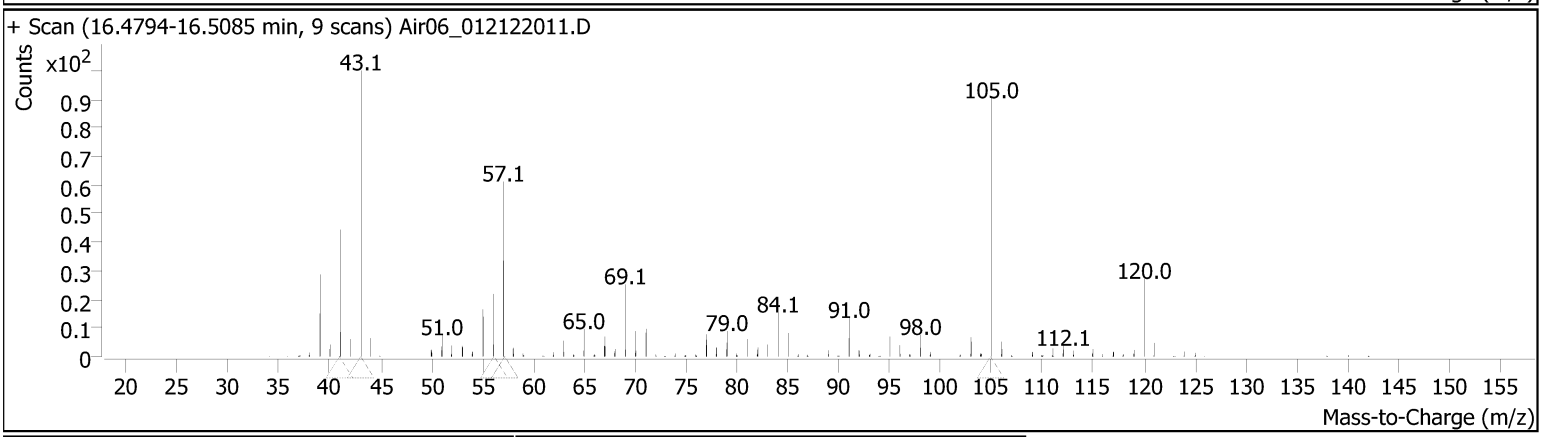



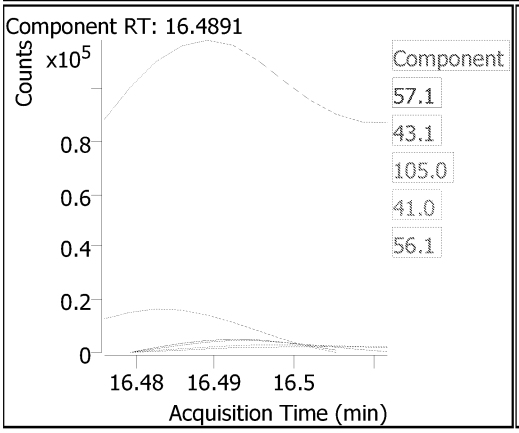



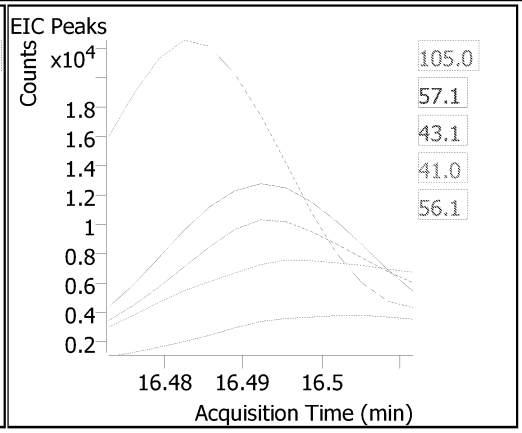
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.4891 | Dodecane, 1-chloro- | 59531.8 | 74.2 | 112-52-7 | C12H25Cl | 0.1241 |

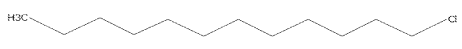


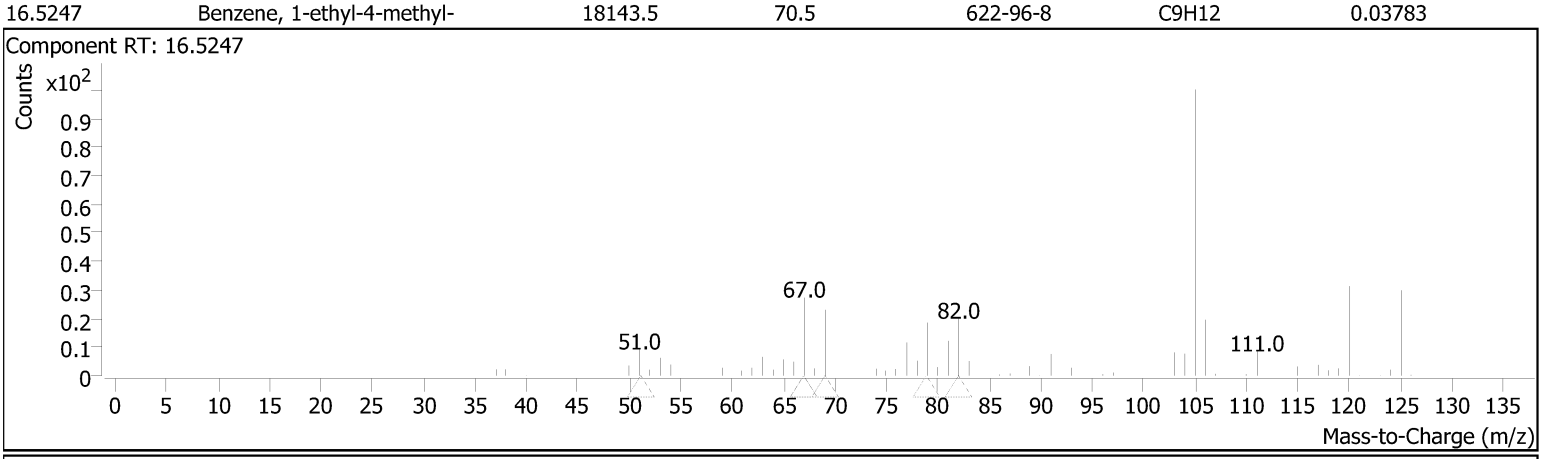



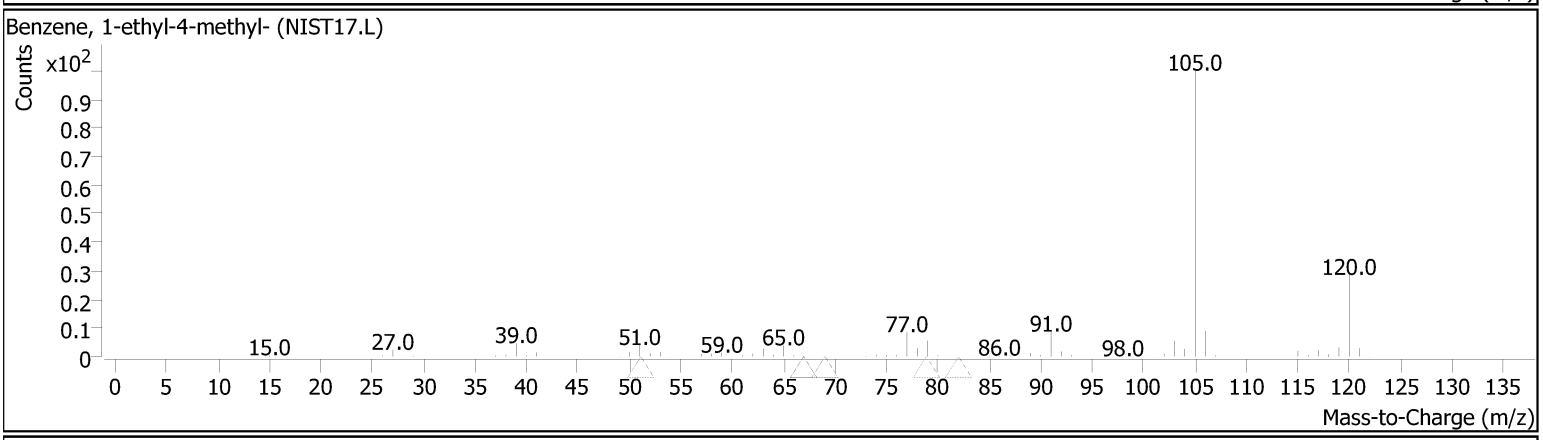



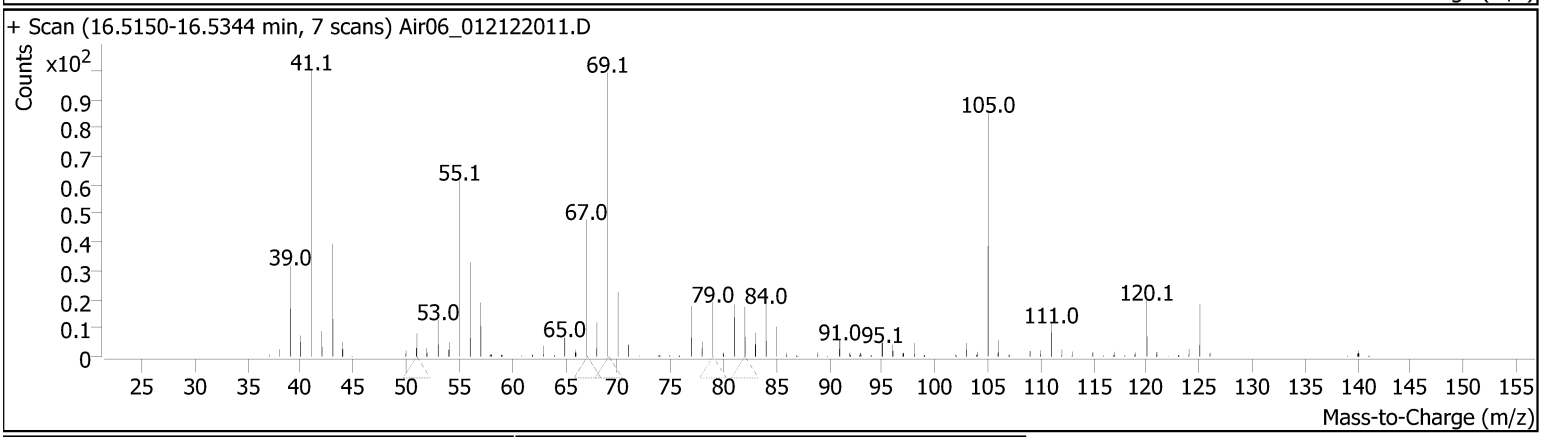



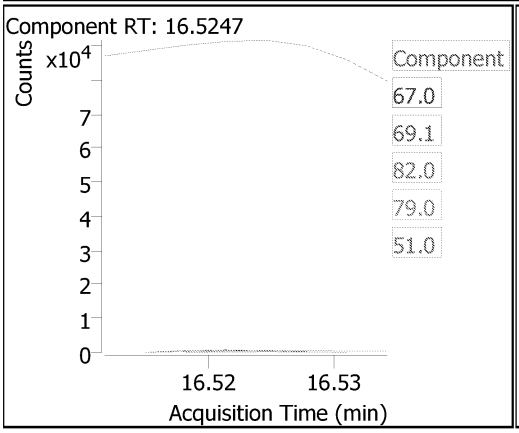



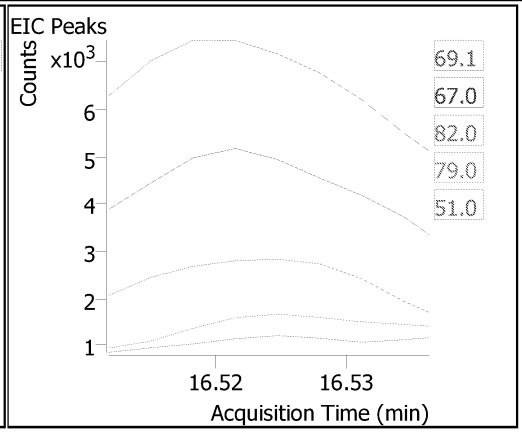
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.5247 | Benzene, 1-ethyl-4-methyl- | 18143.5 | 70.5 | 622-96-8 | C9H12 | 0.03783 |

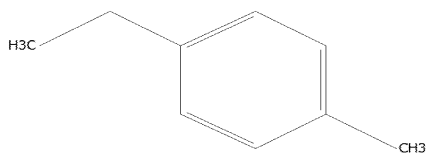


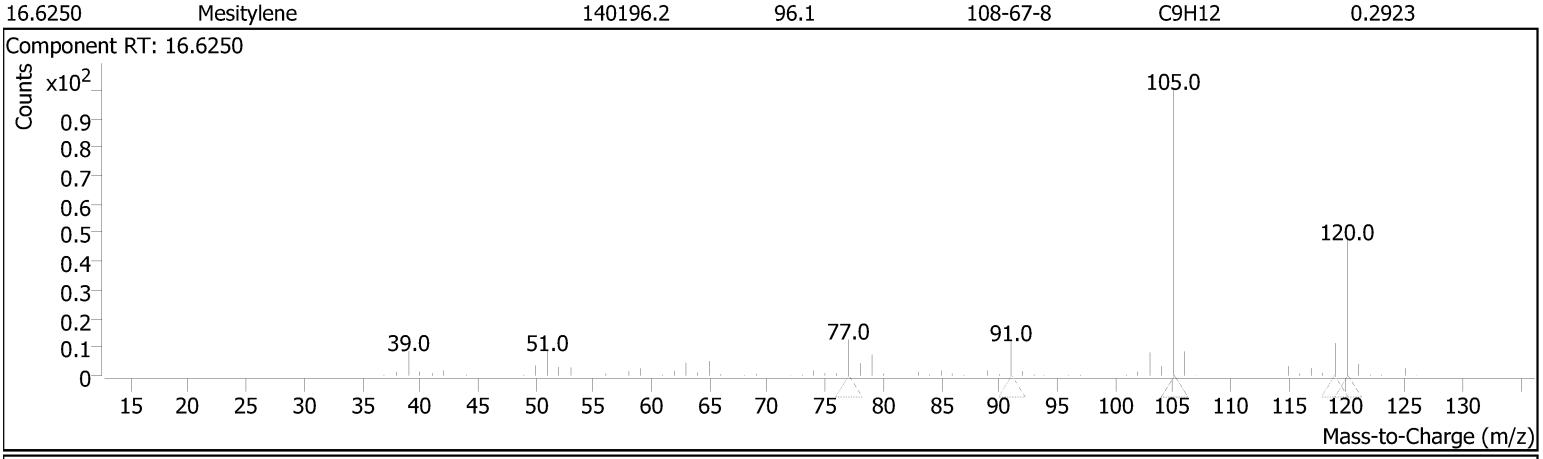



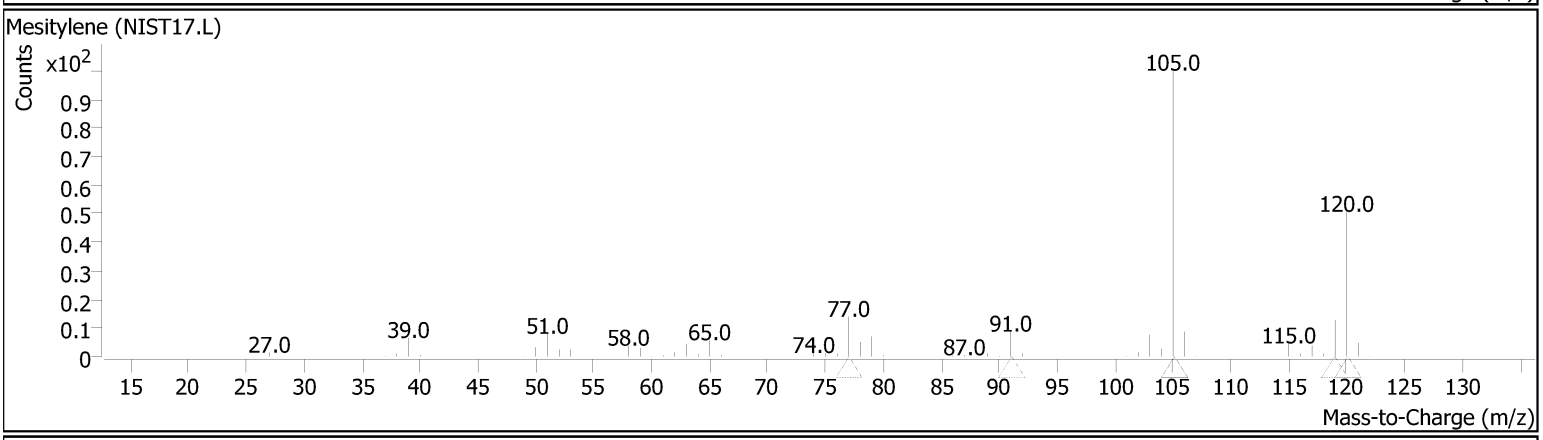



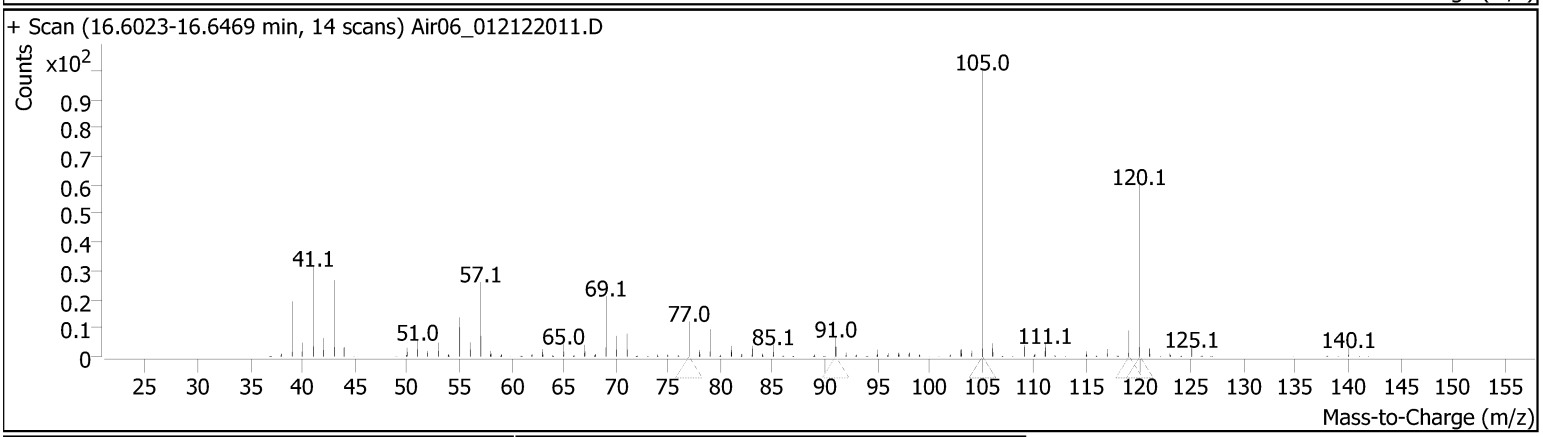



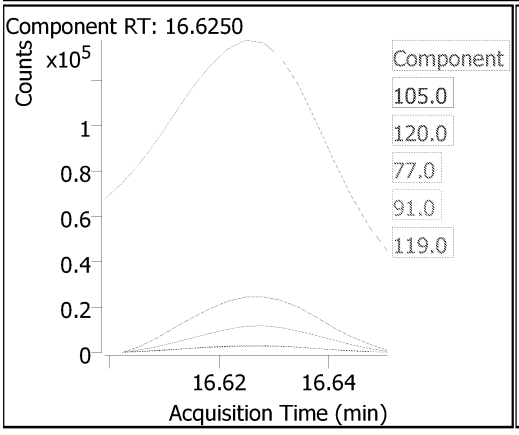



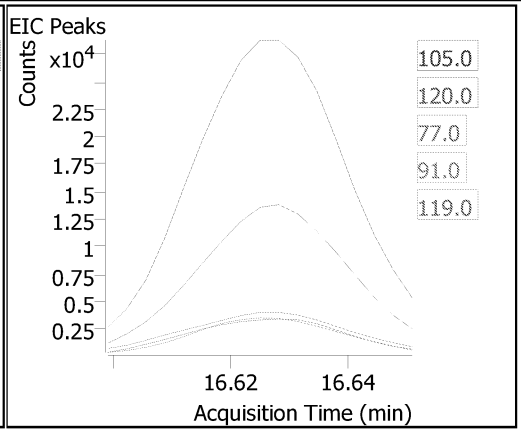
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.6250 | Mesitylene | 140196.2 | 96.1 | 108-67-8 | C9H12 | 0.2923 |

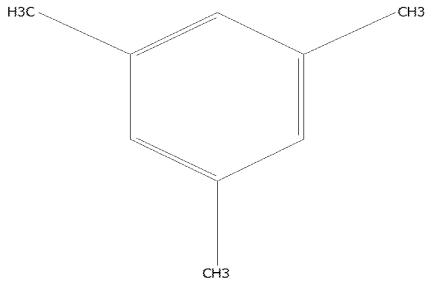


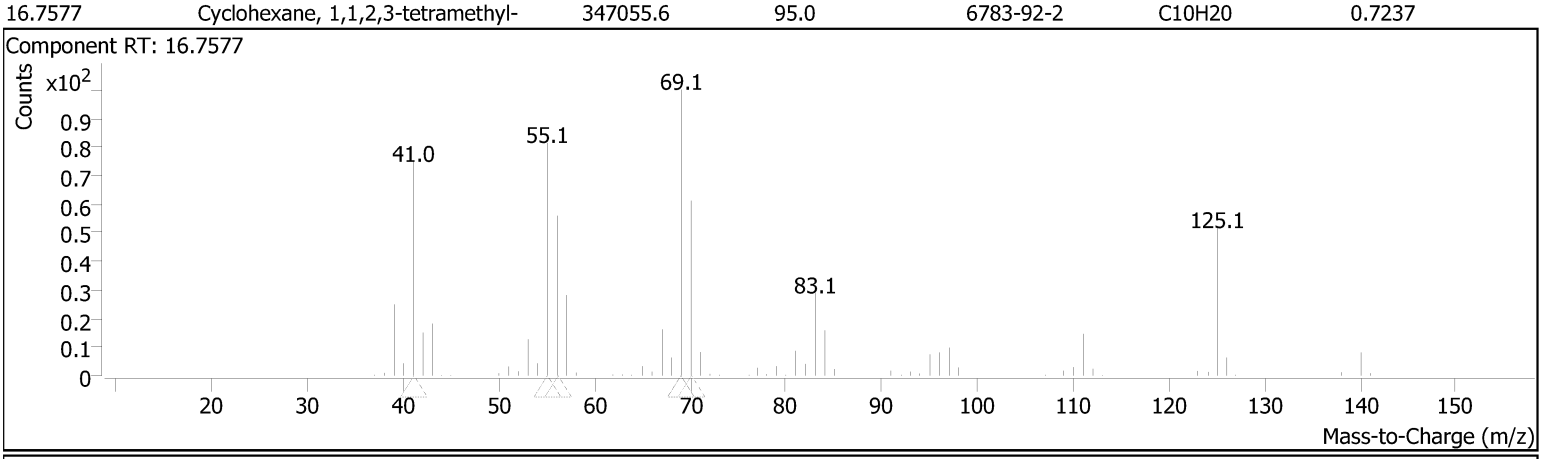



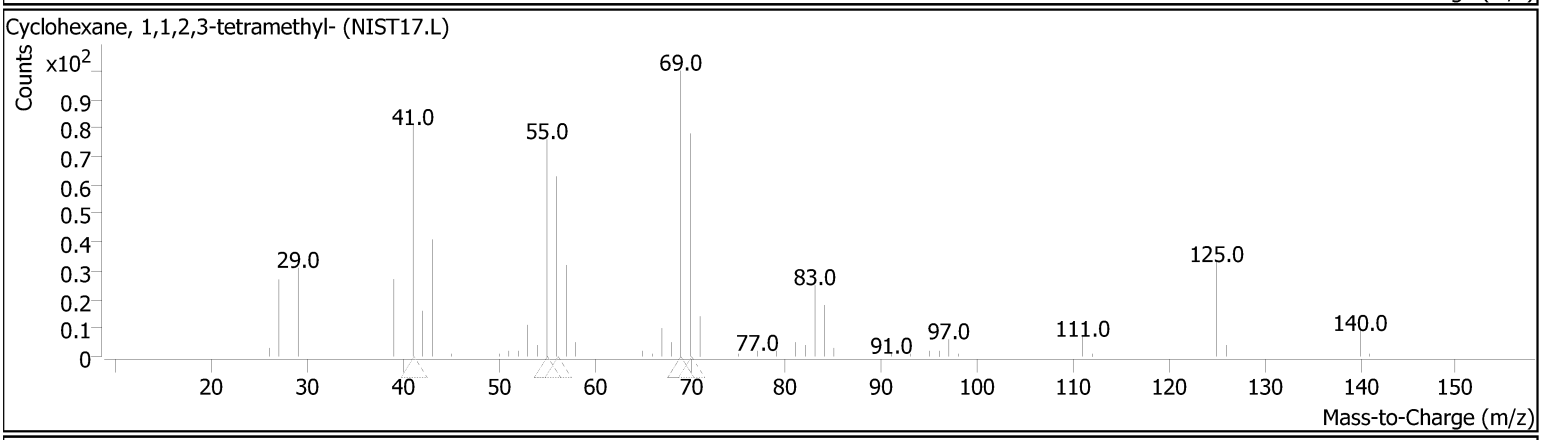



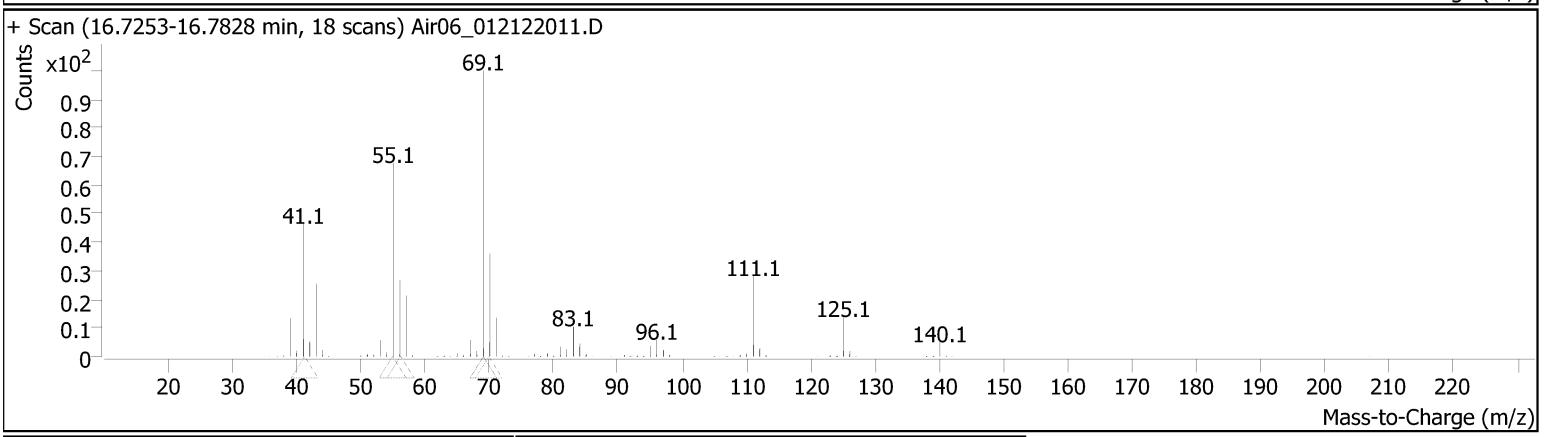



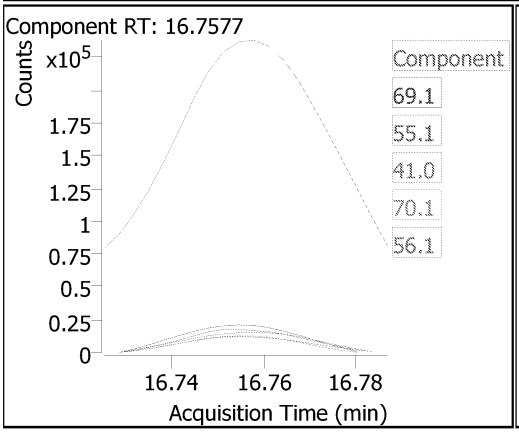



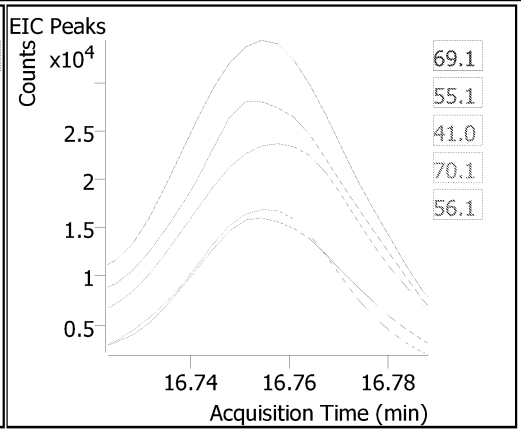
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.7577 | Cyclohexane, 1,1,2,3-tetramethyl- | 347055.6 | 95.0 | 6783-92-2 | C10H20 | 0.7237 |

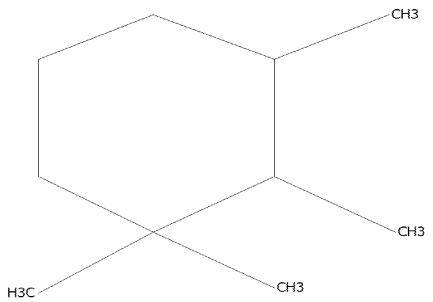


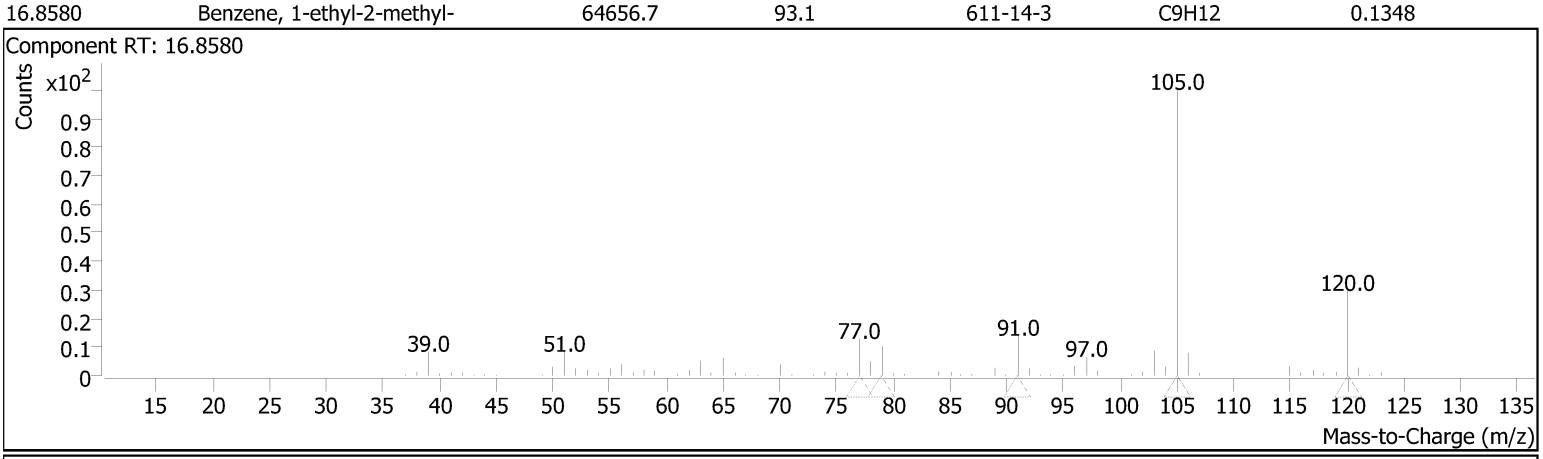



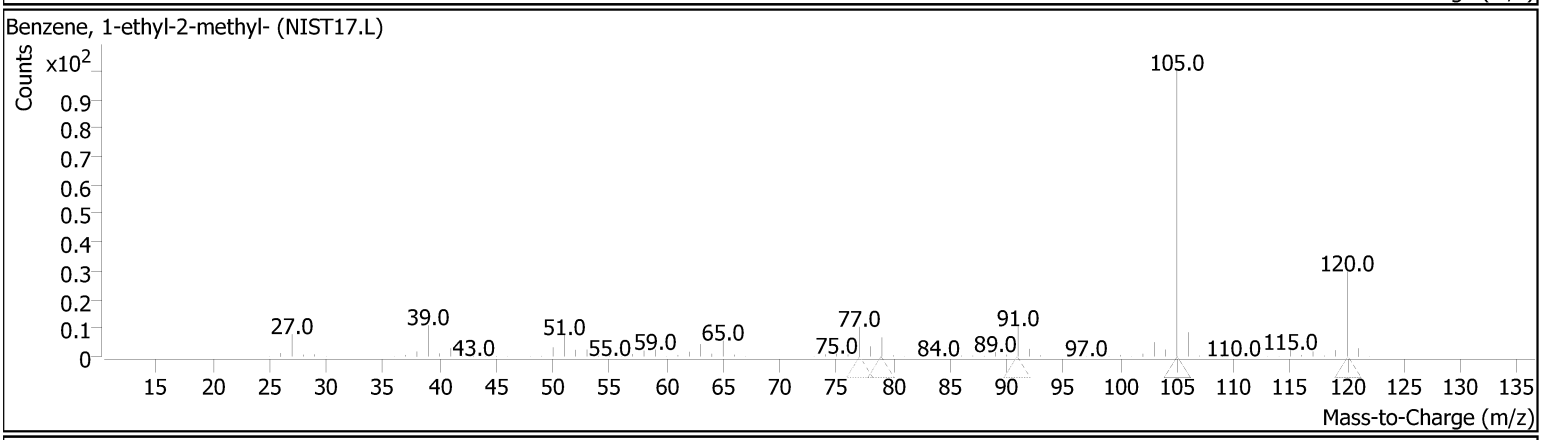



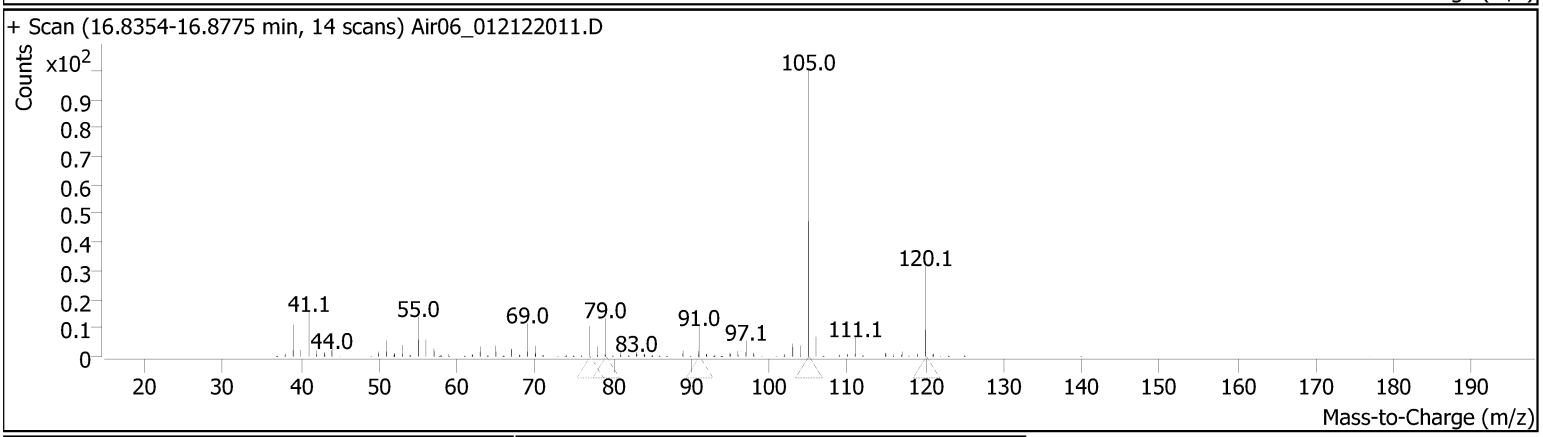



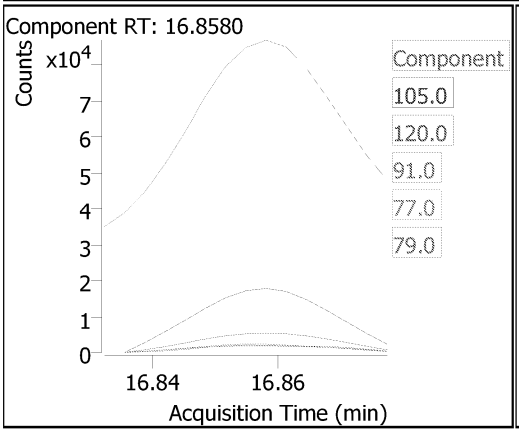



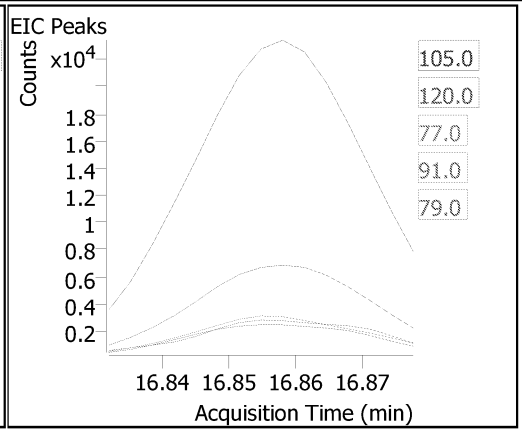
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.8580 | Benzene, 1-ethyl-2-methyl- | 64656.7 | 93.1 | 611-14-3 | C9H12 | 0.1348 |

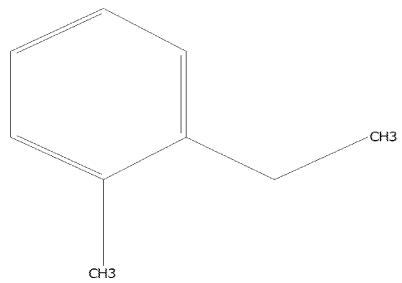


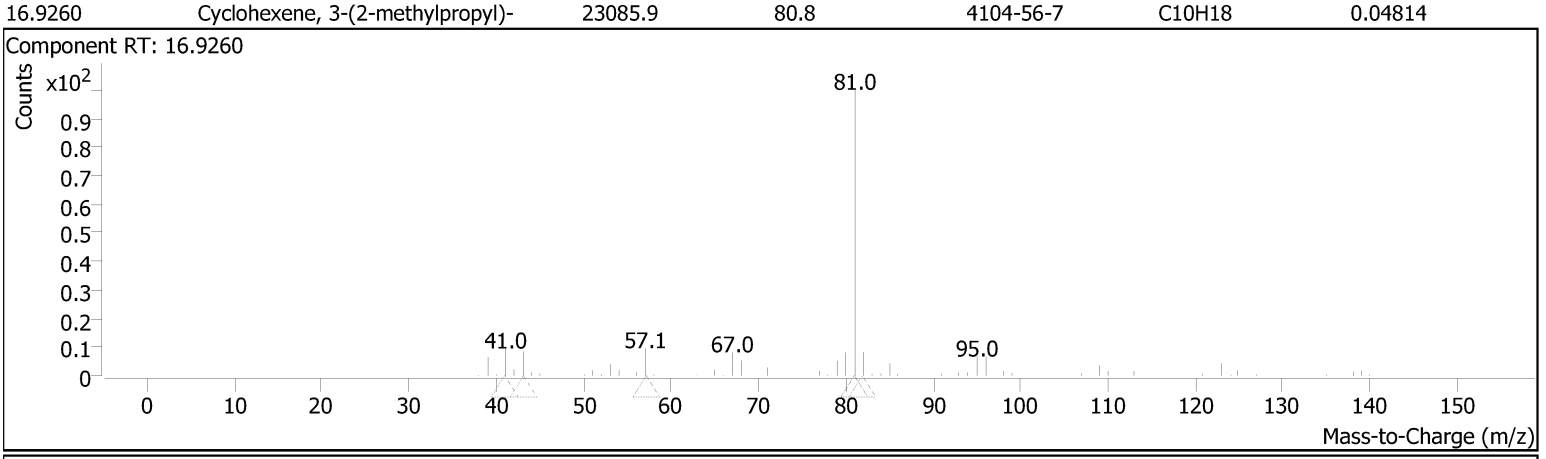



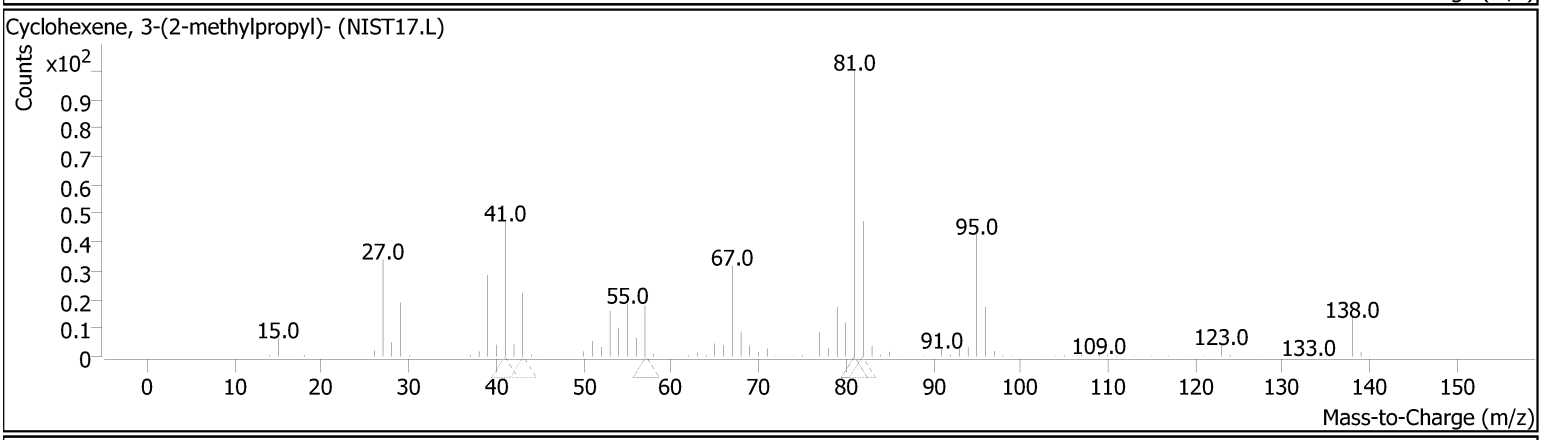



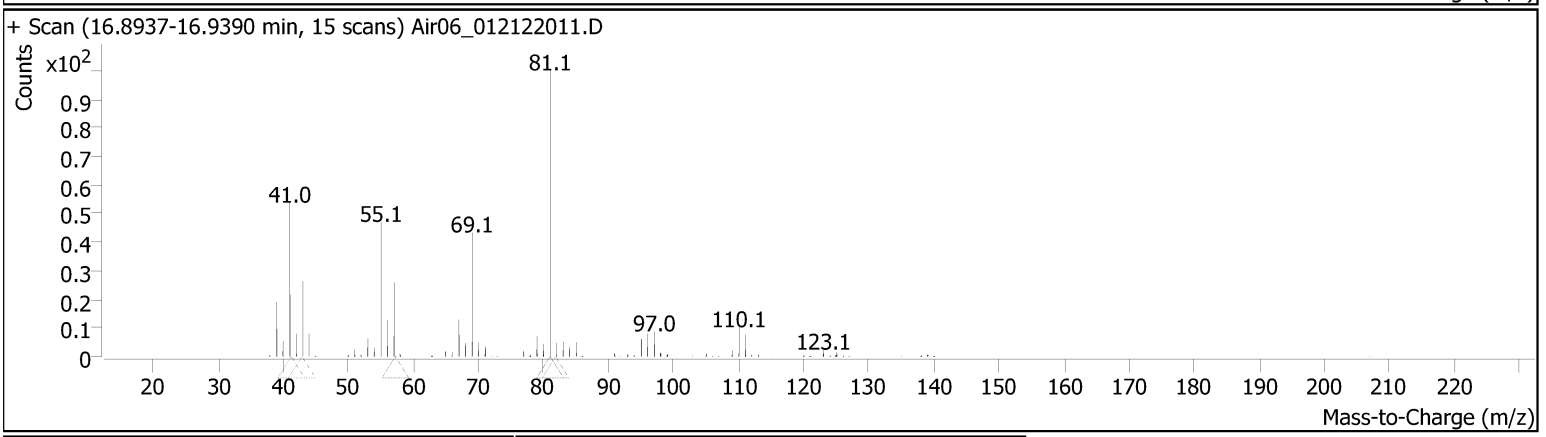



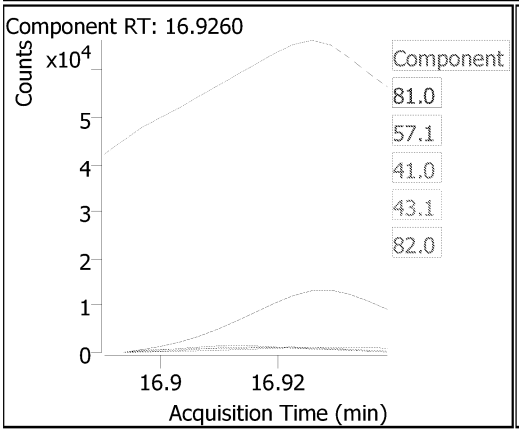



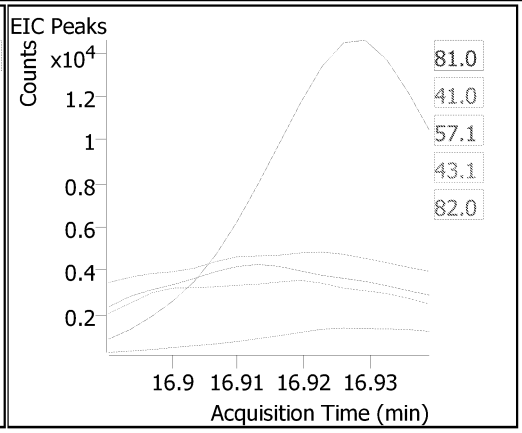
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.9260 | Cyclohexene, 3-(2-methylpropyl)- | 23085.9 | 80.8 | 4104-56-7 | C10H18 | 0.04814 |

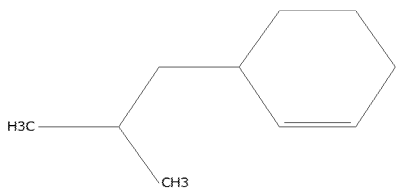


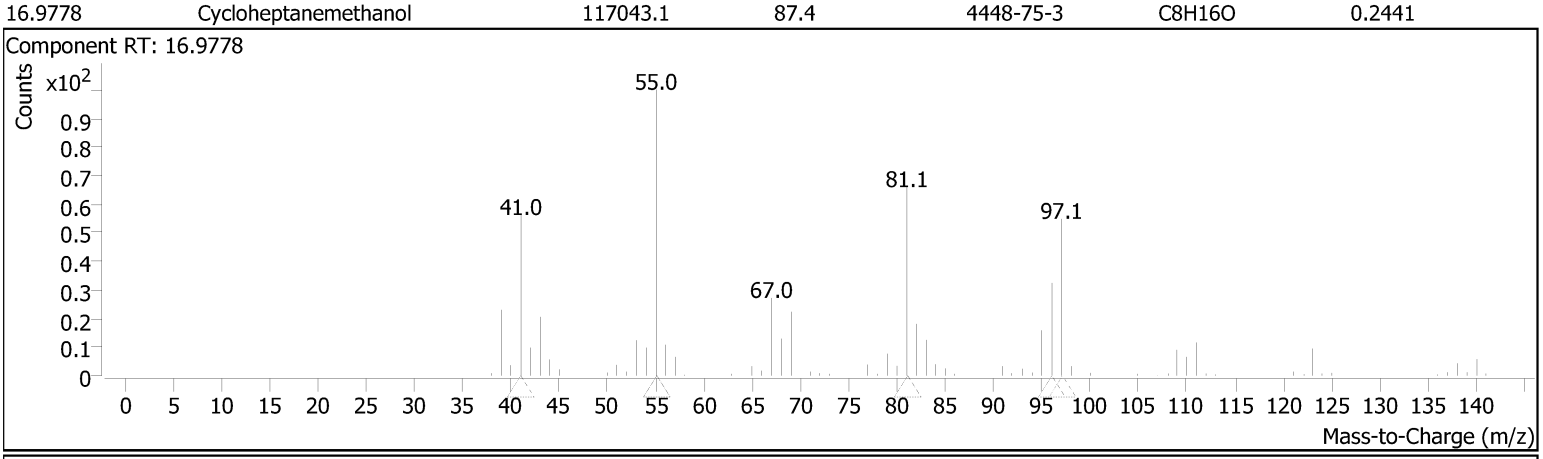



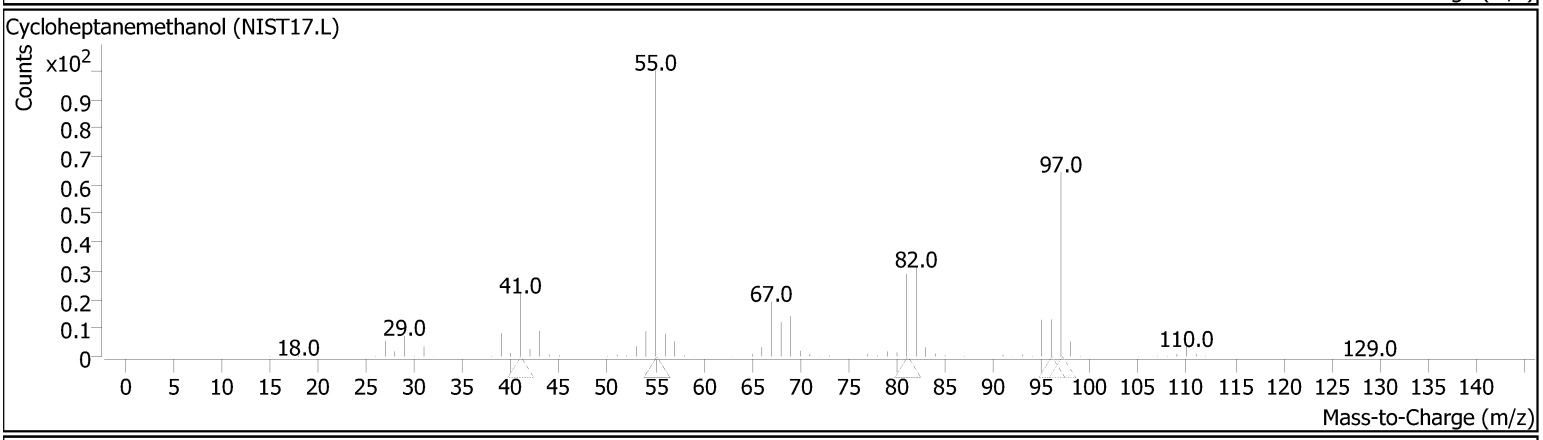



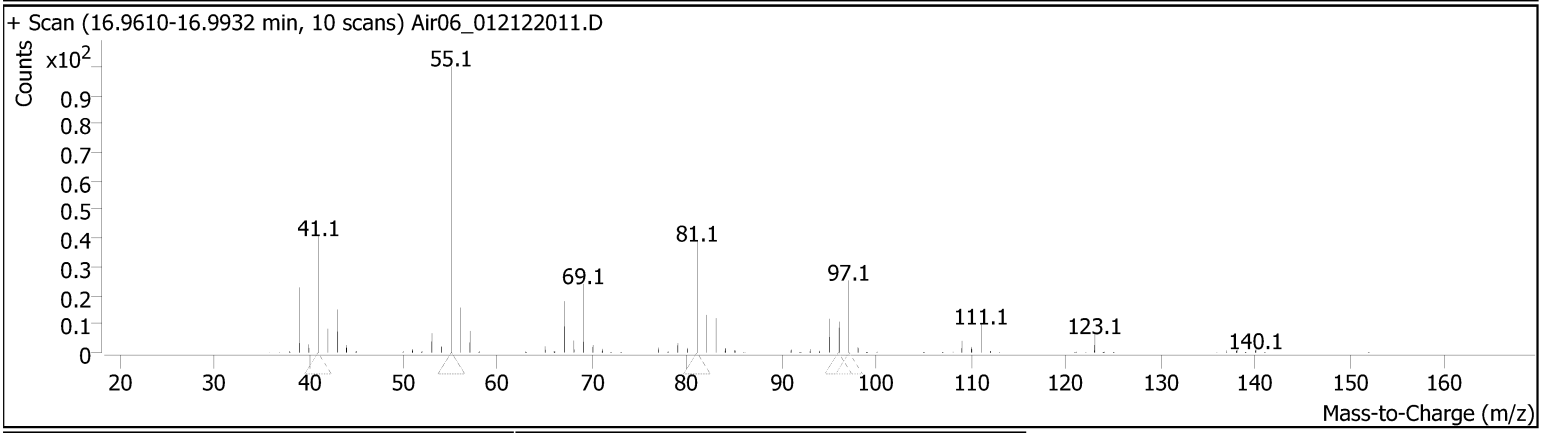



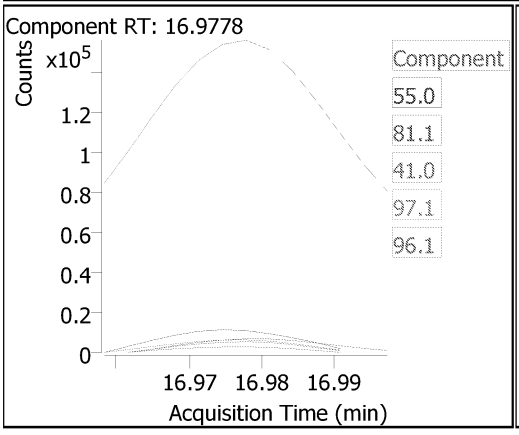



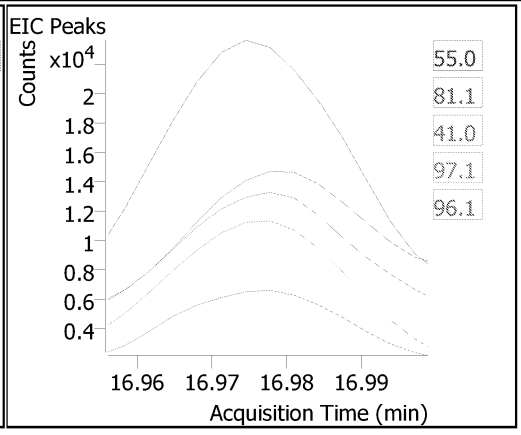
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.9778 | Cycloheptanemethanol | 117043.1 | 87.4 | 4448-75-3 | C8H16O | 0.2441 |

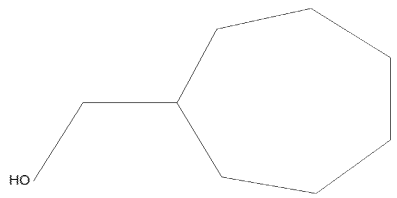


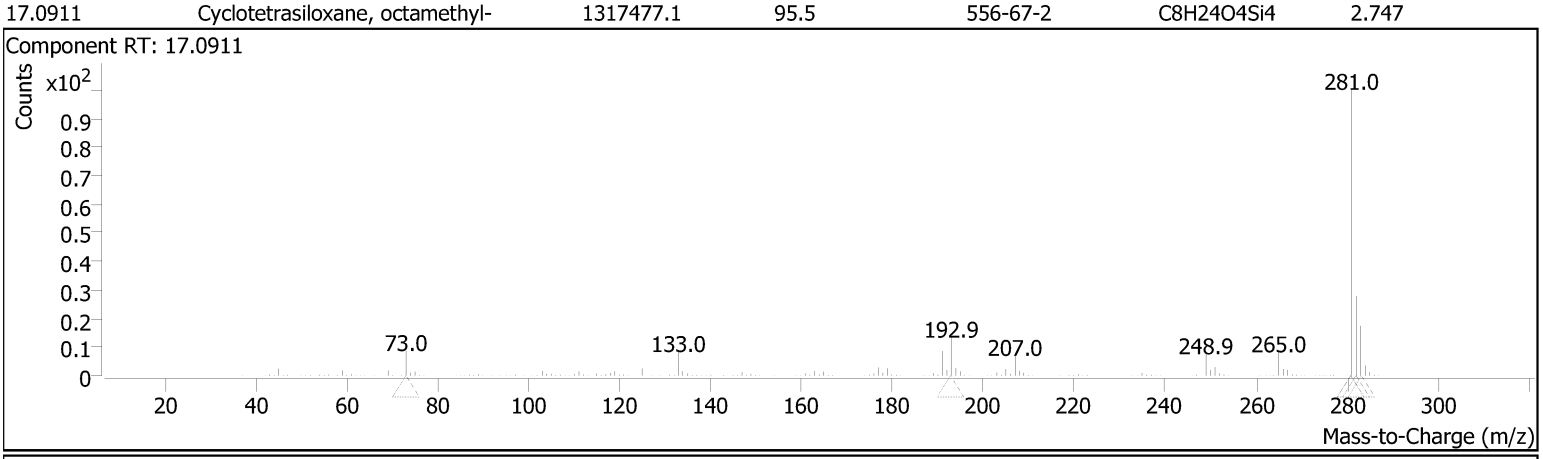



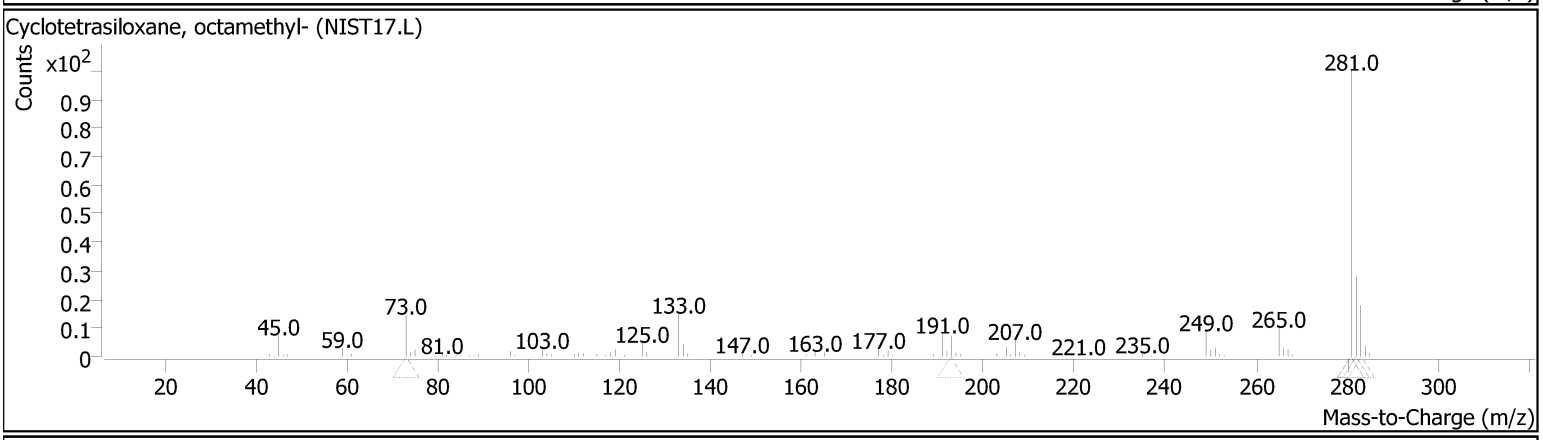



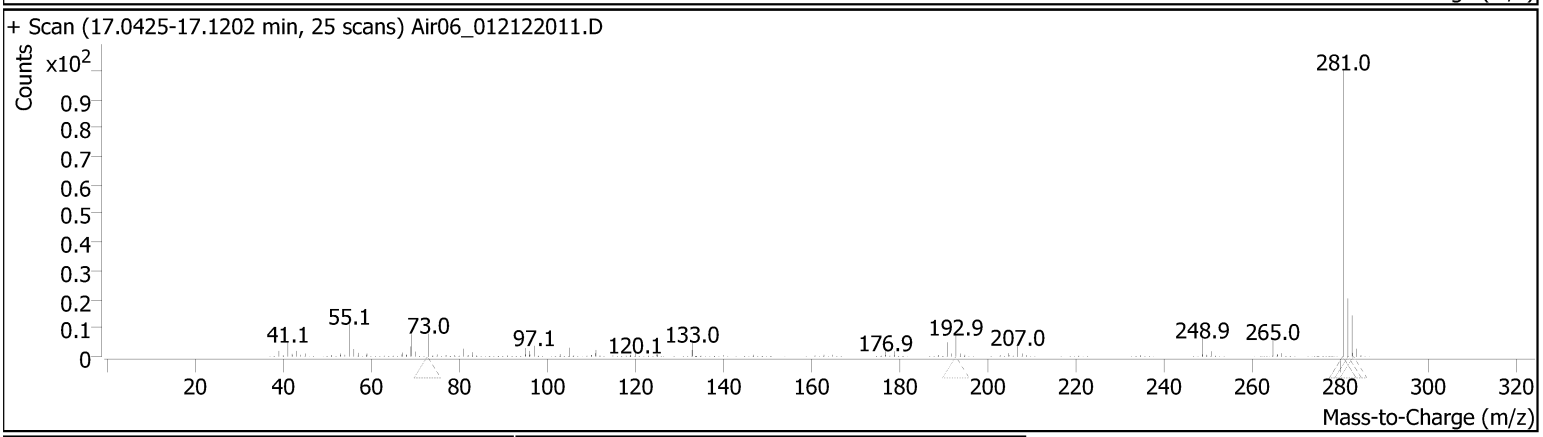



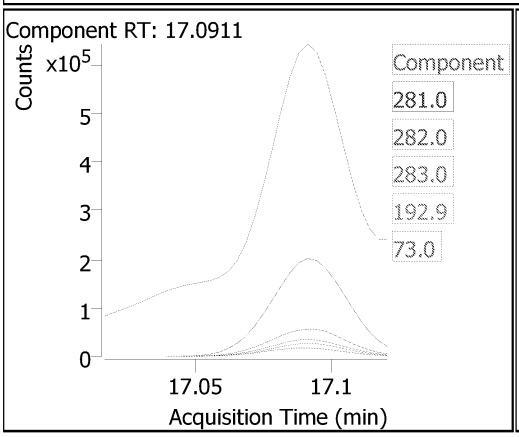



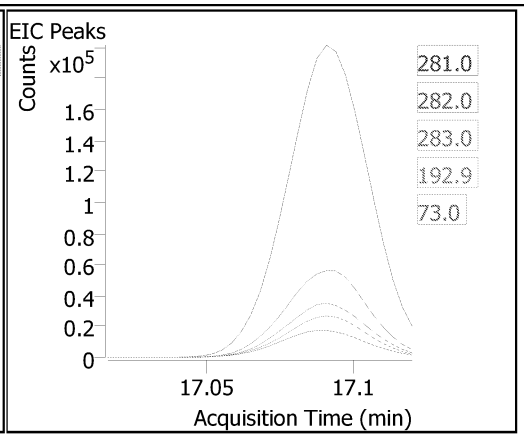
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.0911 | Cyclotetrasiloxane, octamethyl- | 1317477.1 | 95.5 | 556-67-2 | C8H24O4Si4 | 2.747 |

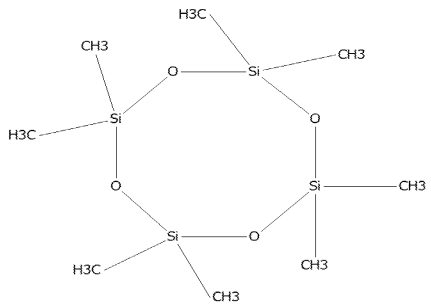


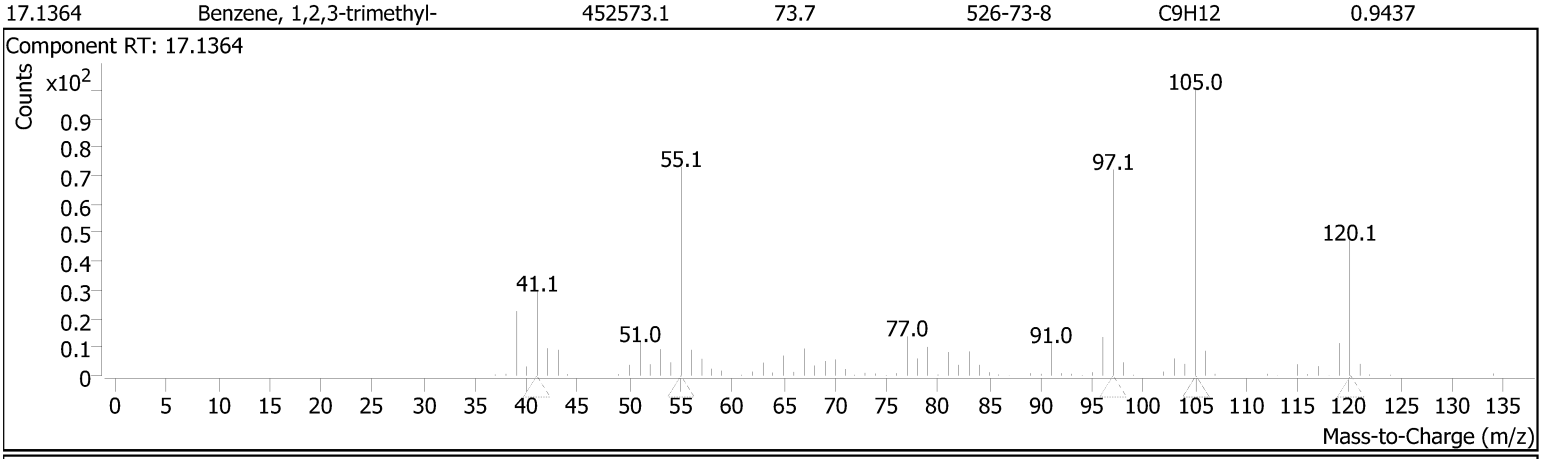



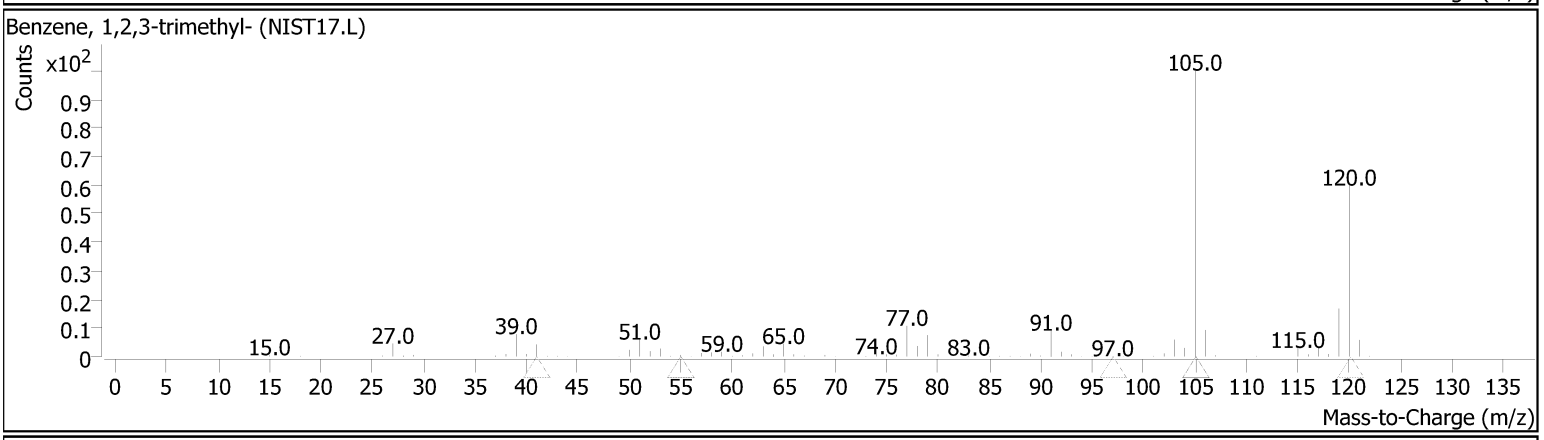



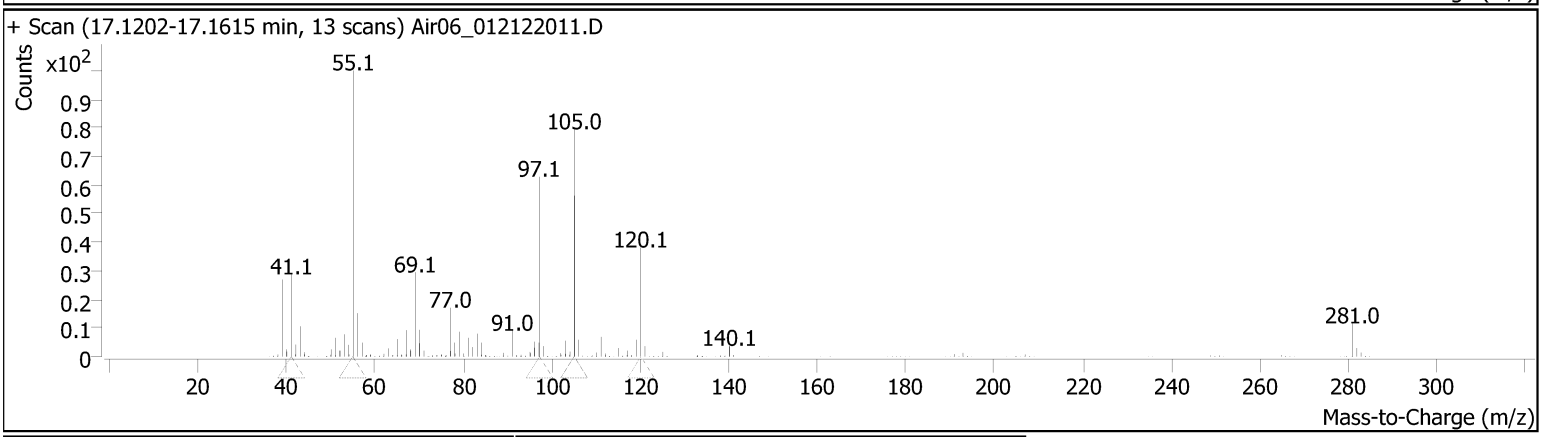



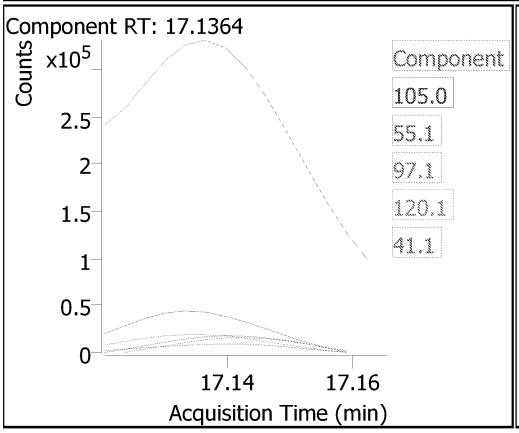



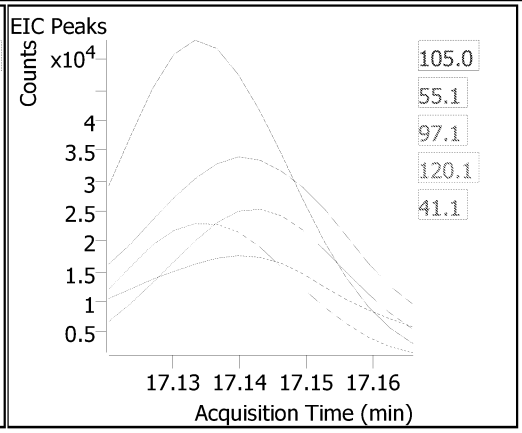
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.1364 | Benzene, 1,2,3-trimethyl- | 452573.1 | 73.7 | 526-73-8 | C9H12 | 0.9437 |

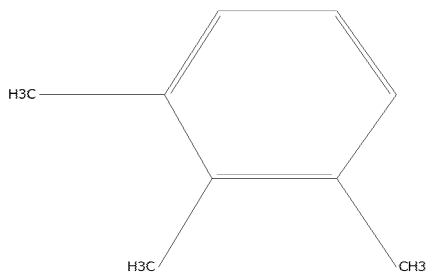


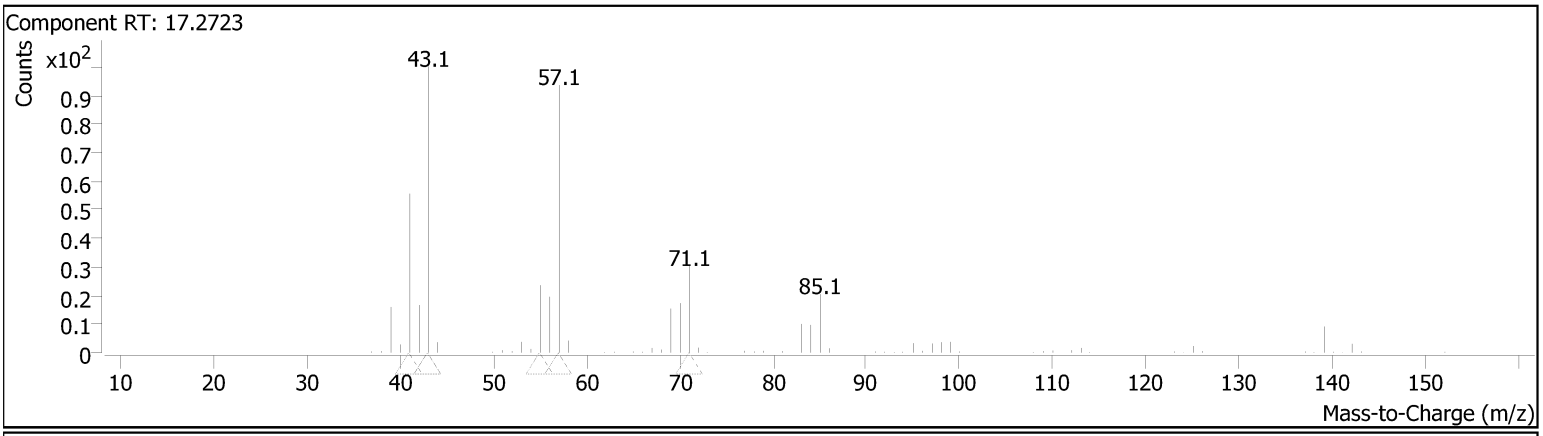



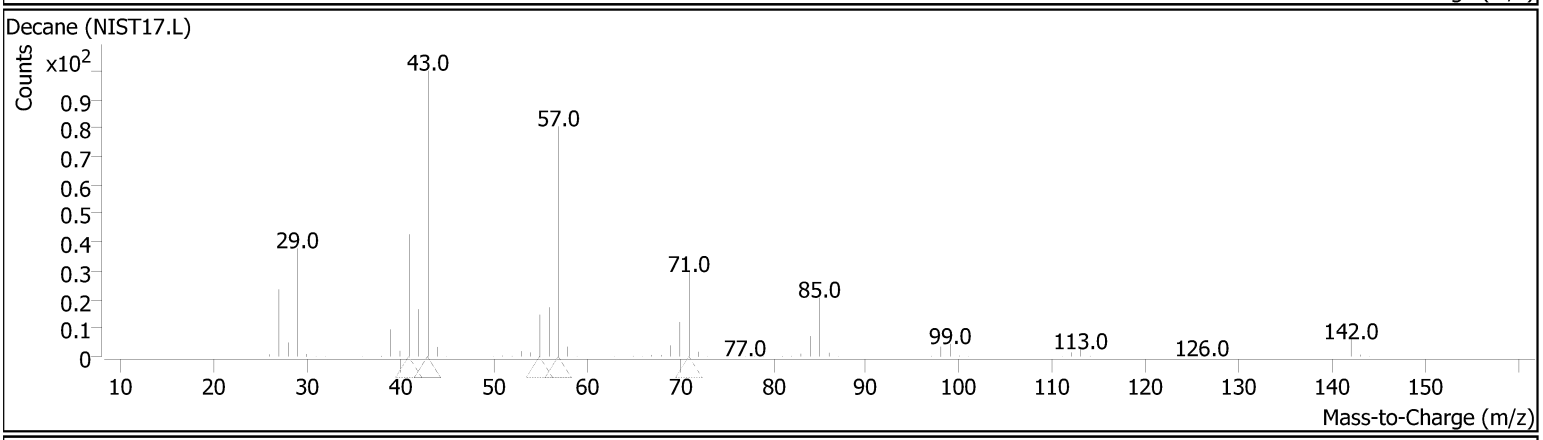



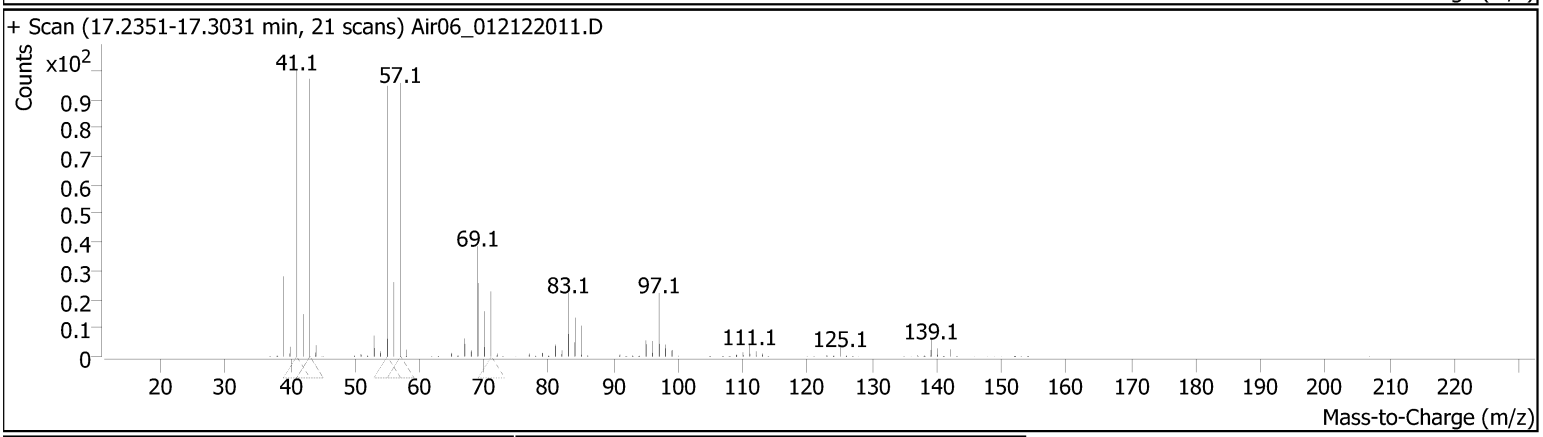



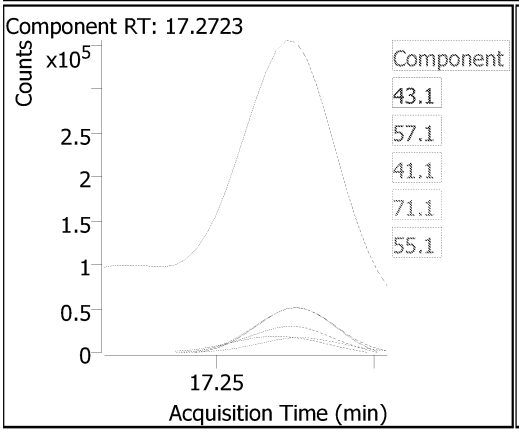



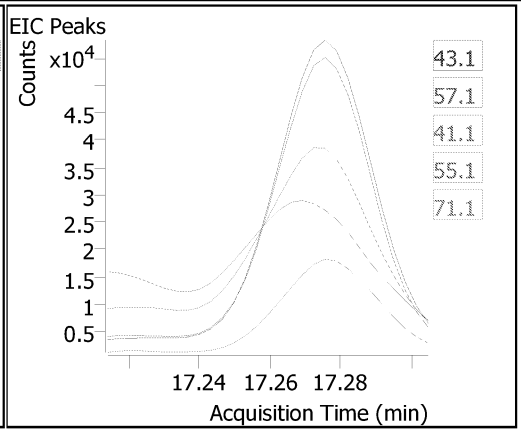
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.2723 | Decane | 613429.2 | 90.4 | 124-18-5 | C10H22 | 1.279 |



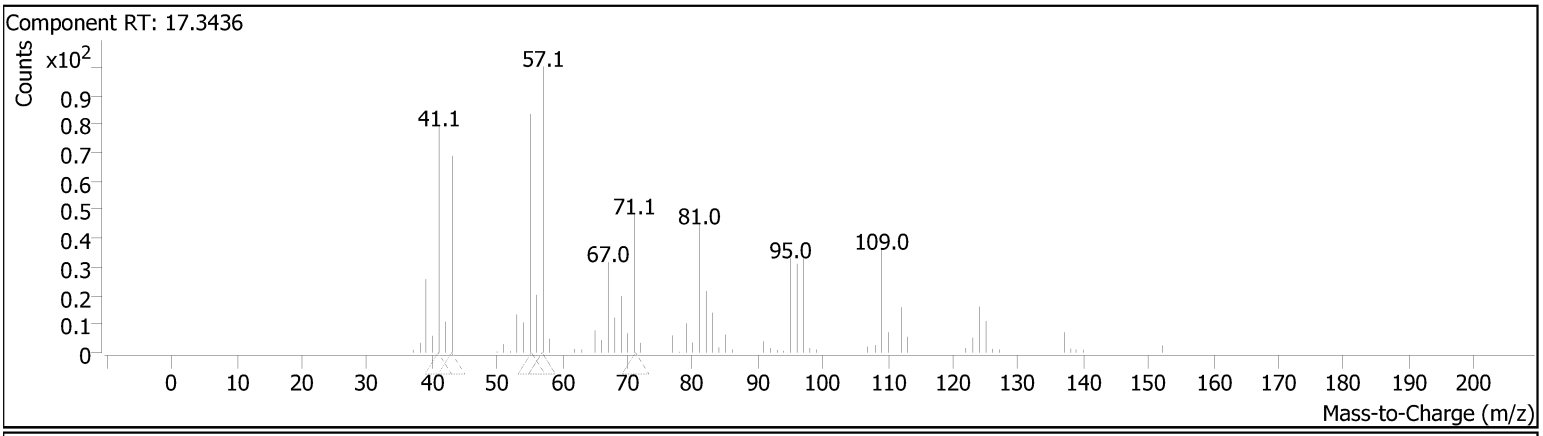



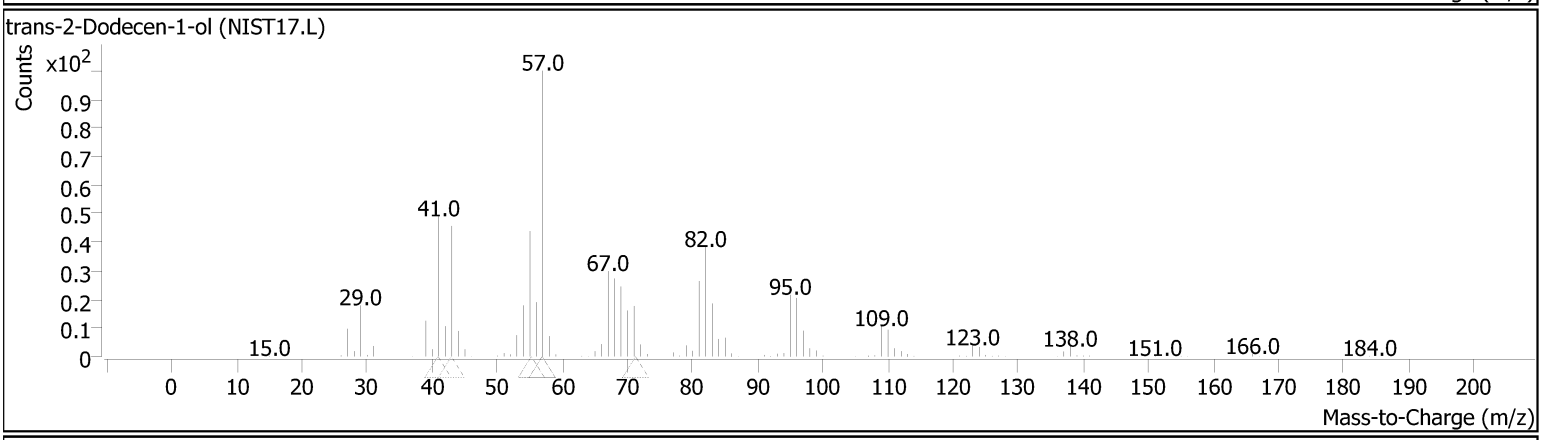



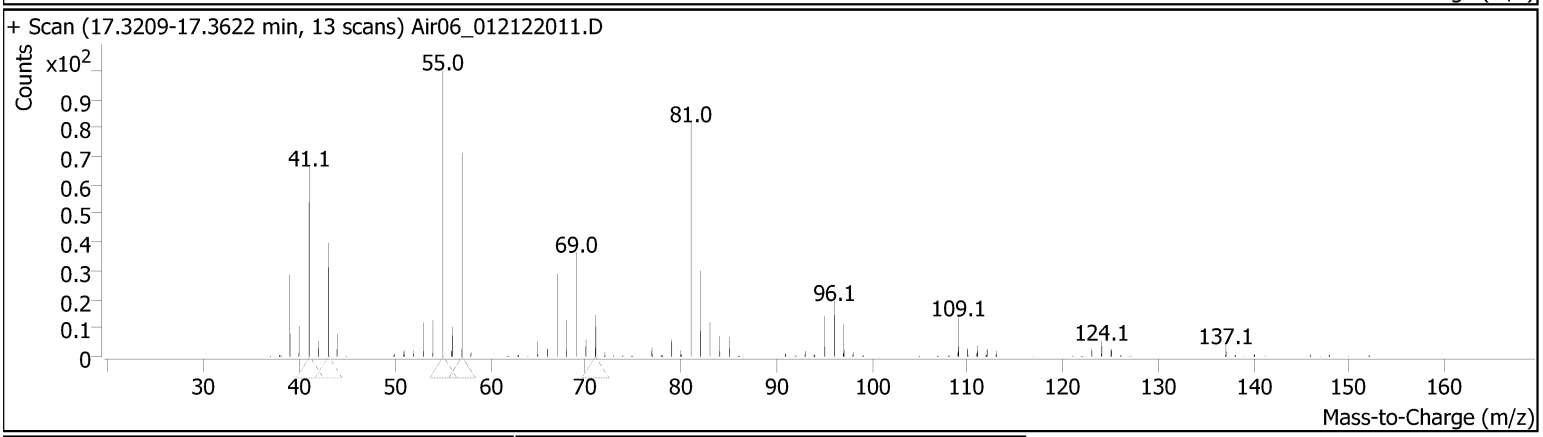



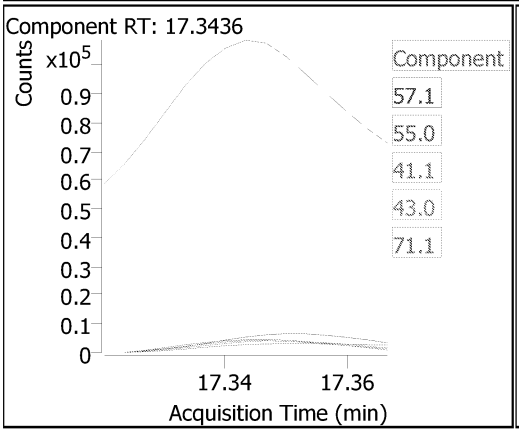


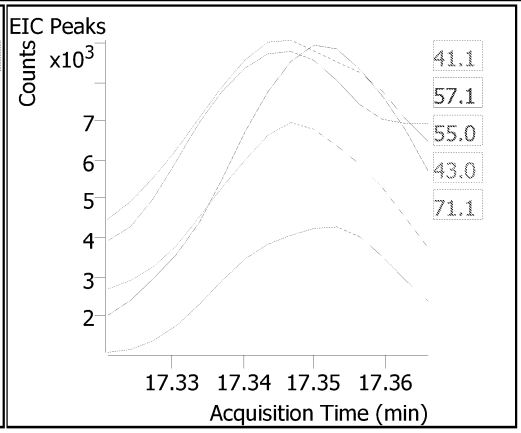

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.3436 | trans-2-Dodecen-1-ol | 65072.7 | 88.1 | 69064-37-5 | C12H24O | 0.1357 |

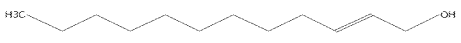


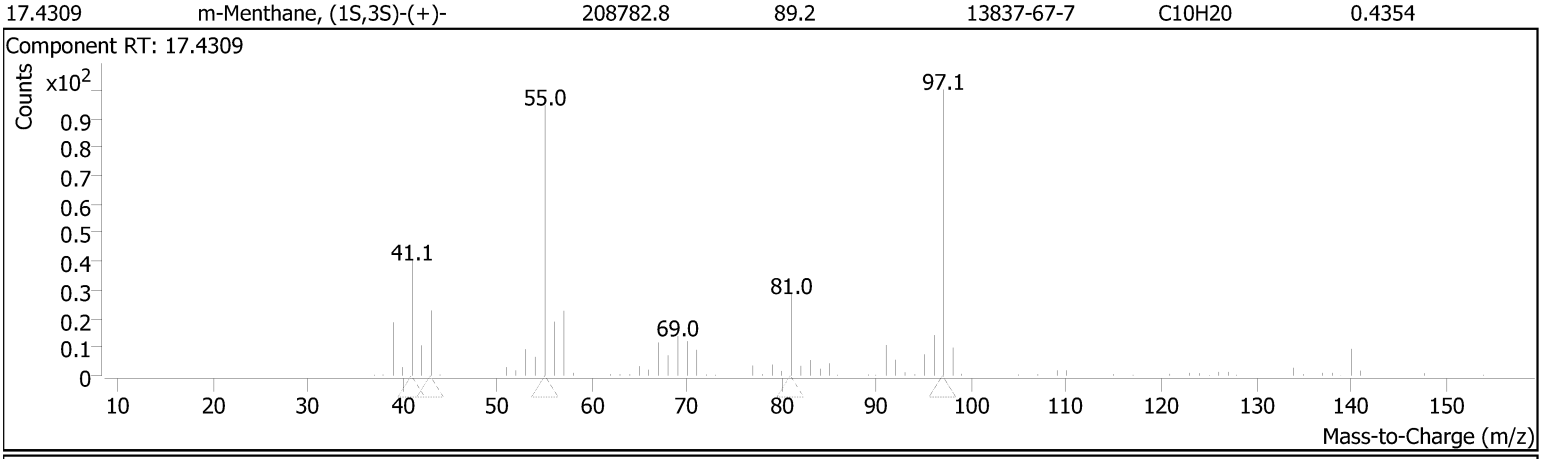



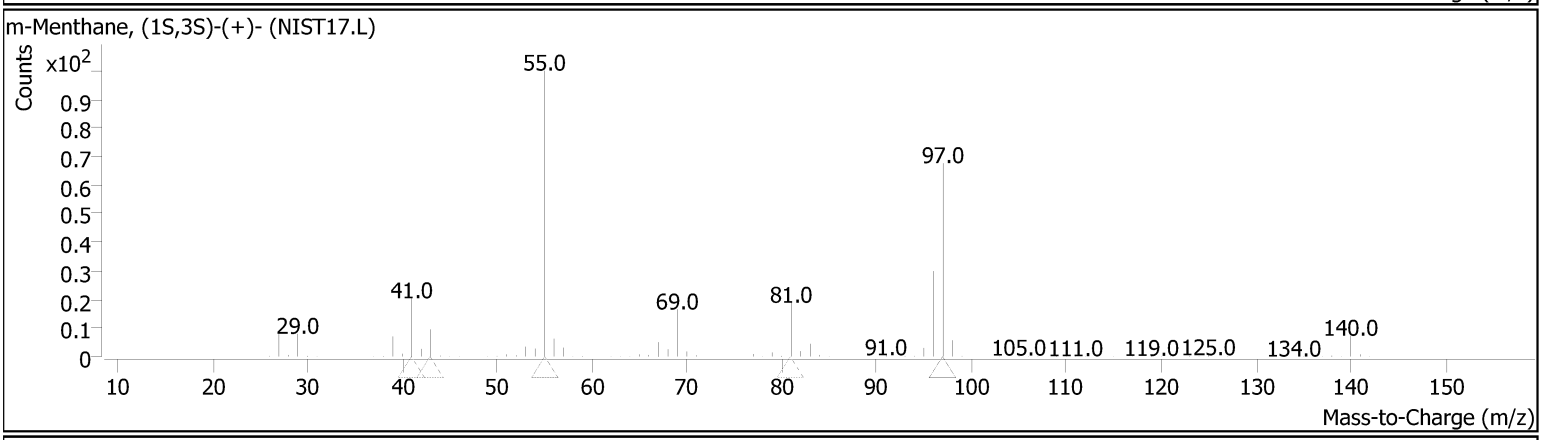



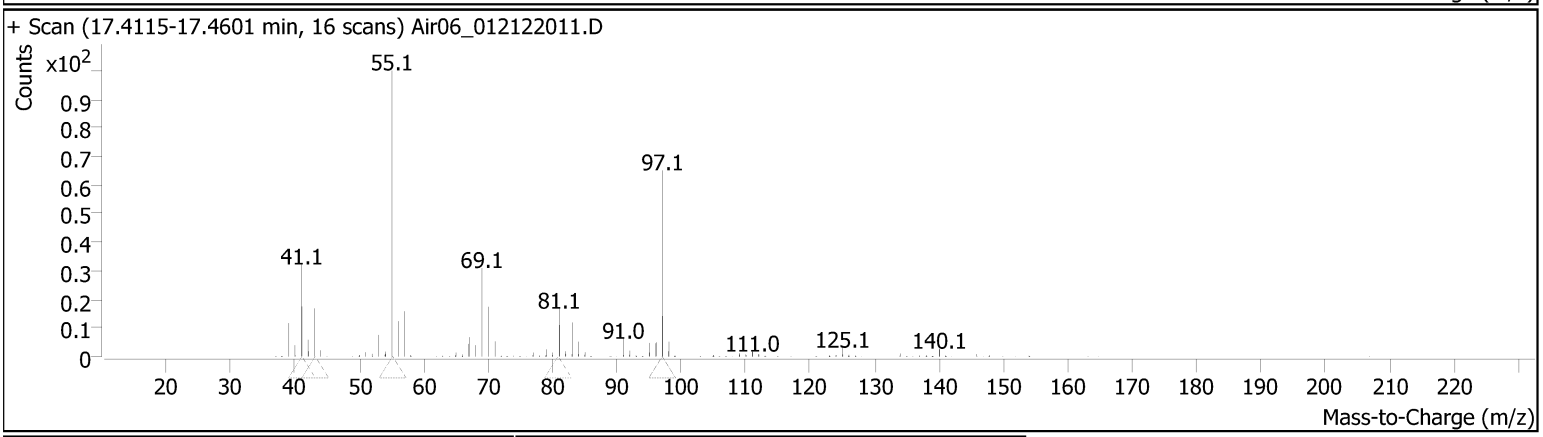



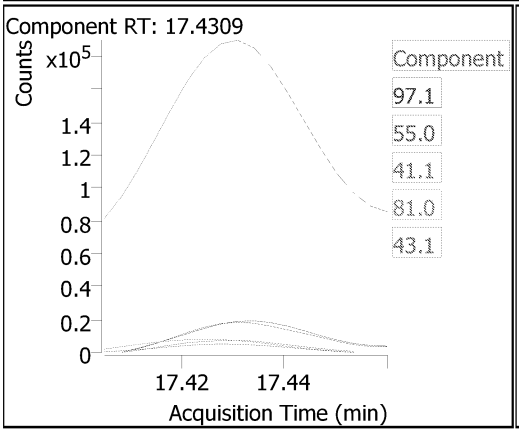



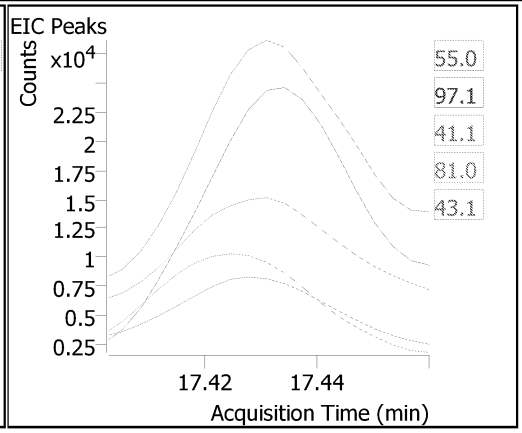
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4309 | m-Menthane, (1S,3S)-(+)- | 208782.8 | 89.2 | 13837-67-7 | C10H20 | 0.4354 |

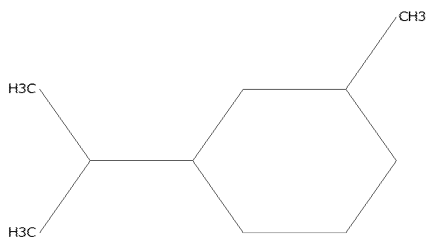


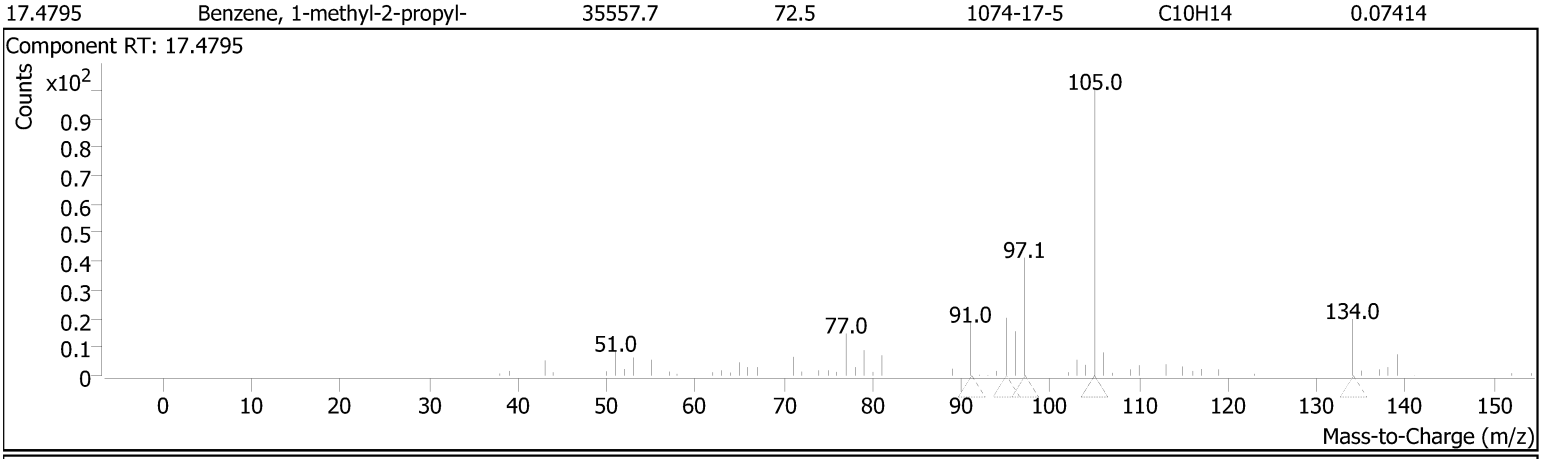



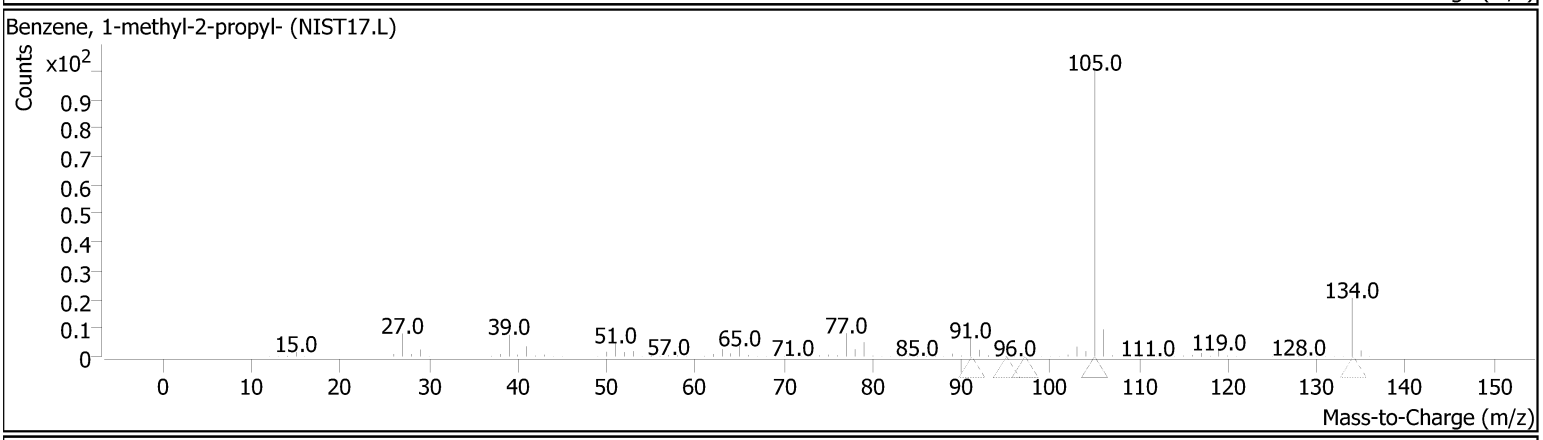



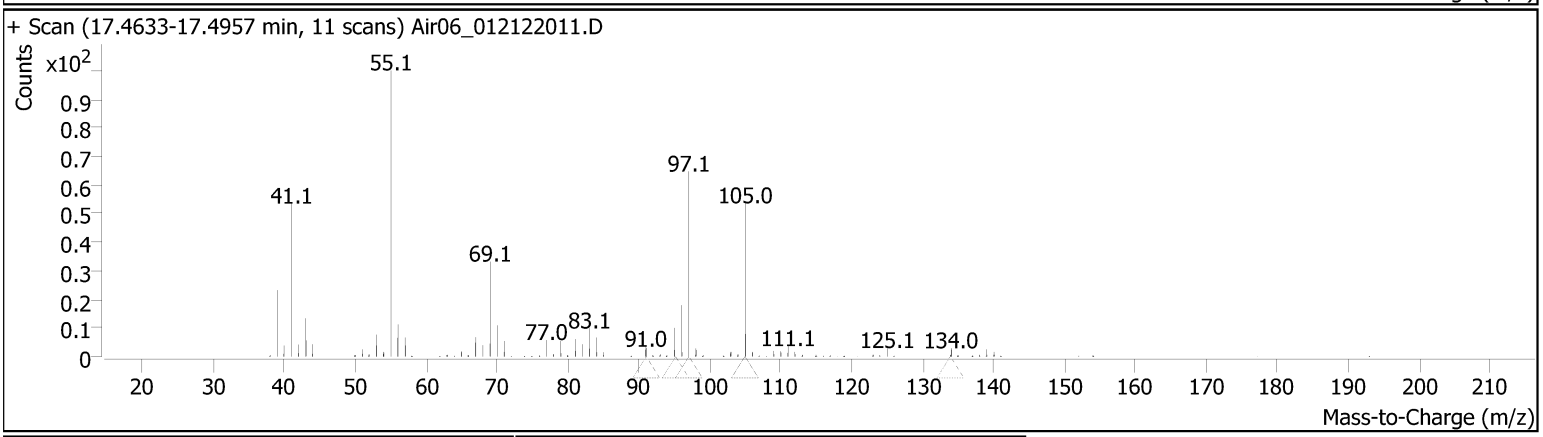



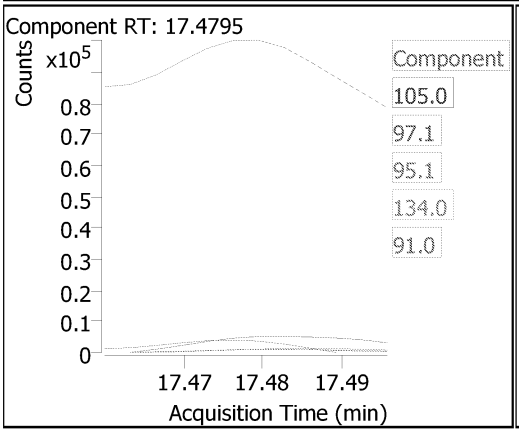



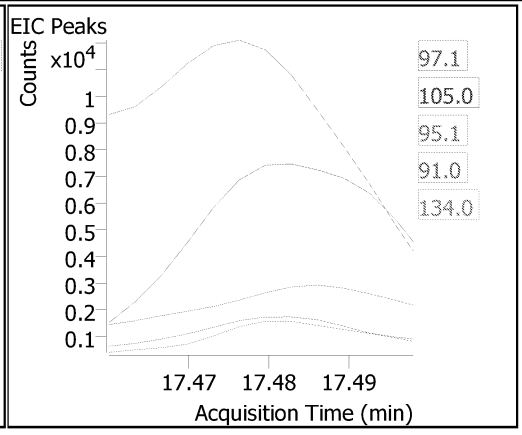
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4795 | Benzene, 1-methyl-2-propyl- | 35557.7 | 72.5 | 1074-17-5 | C10H14 | 0.07414 |

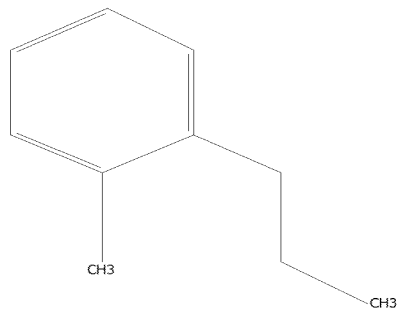


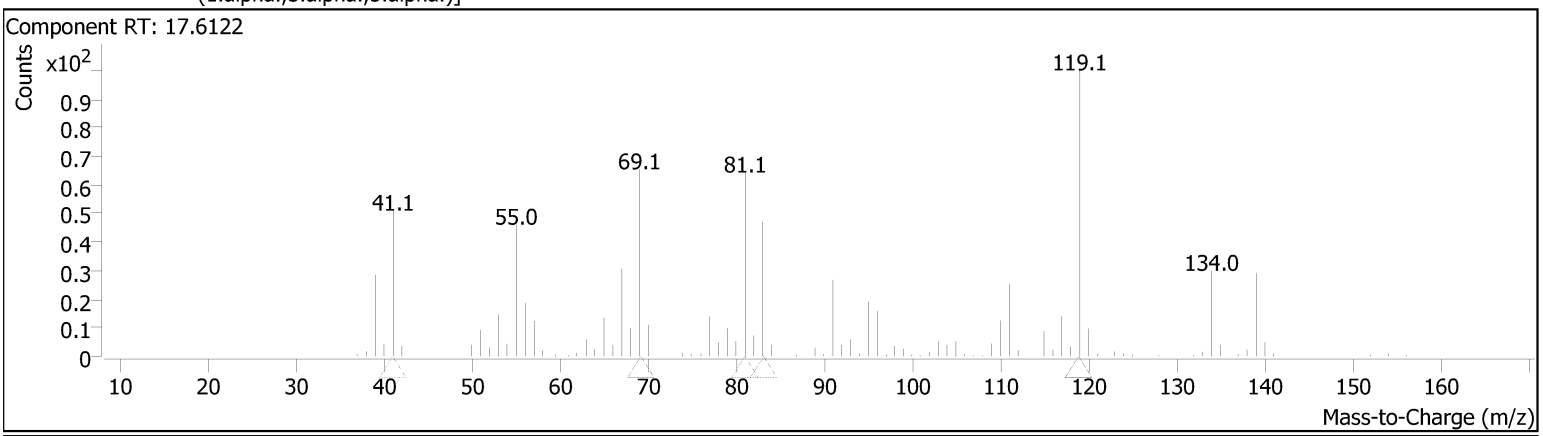



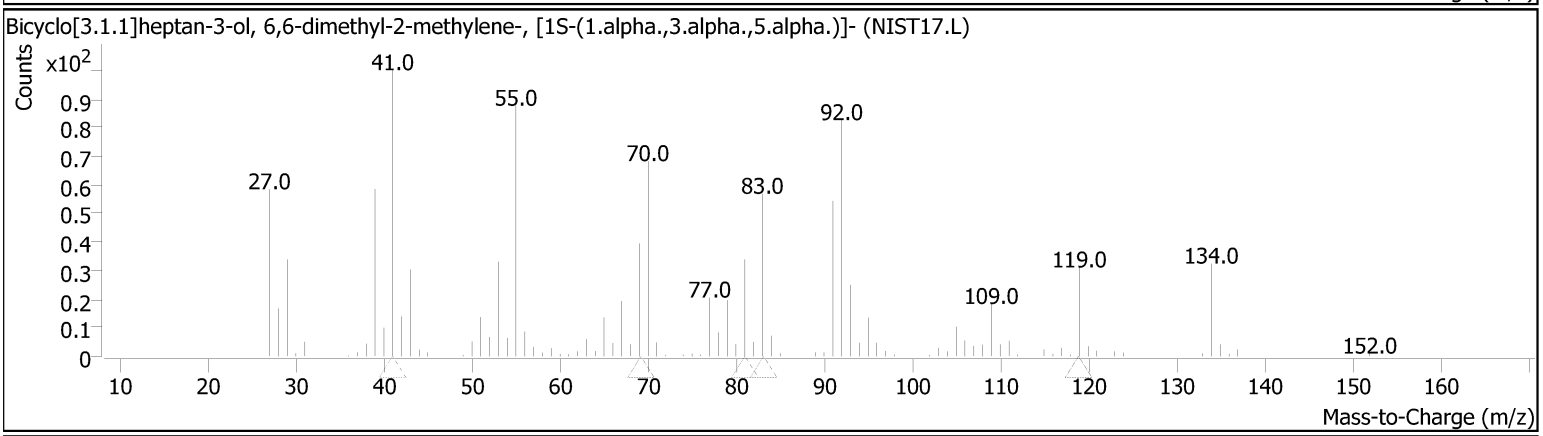



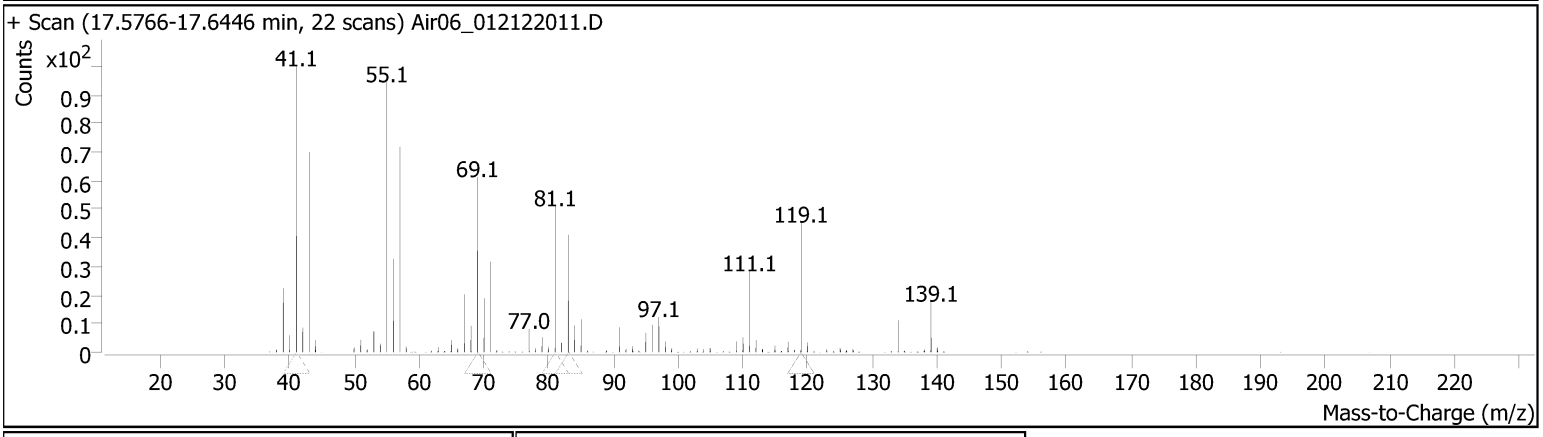



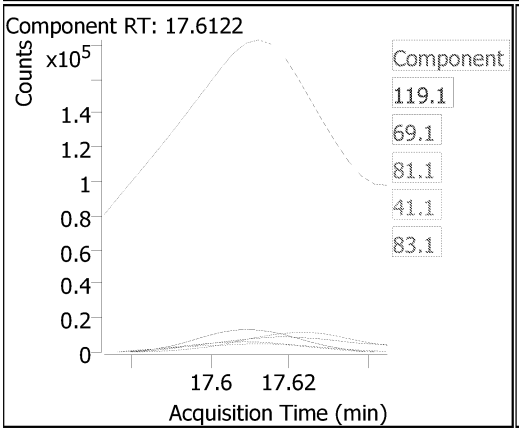



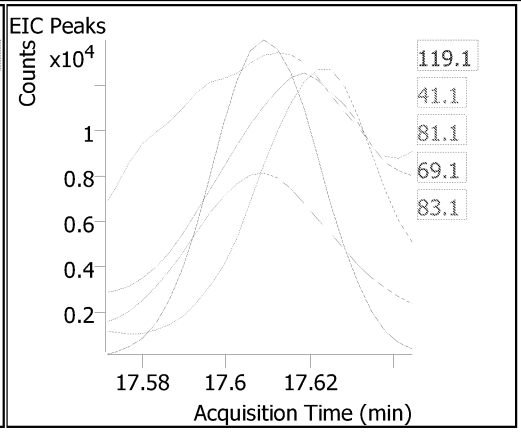
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6122 | Bicyclo[3.1.1]heptan-3-ol, 6,6-dimethyl-2-methylene-, [1S-(1.alpha.,3.alpha.,5.alpha.)]- | 261339.7 | 75.3 | 547-61-5 | C10H16O | 0.5449 |

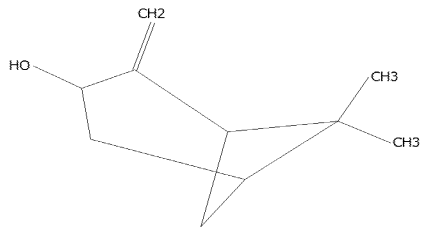


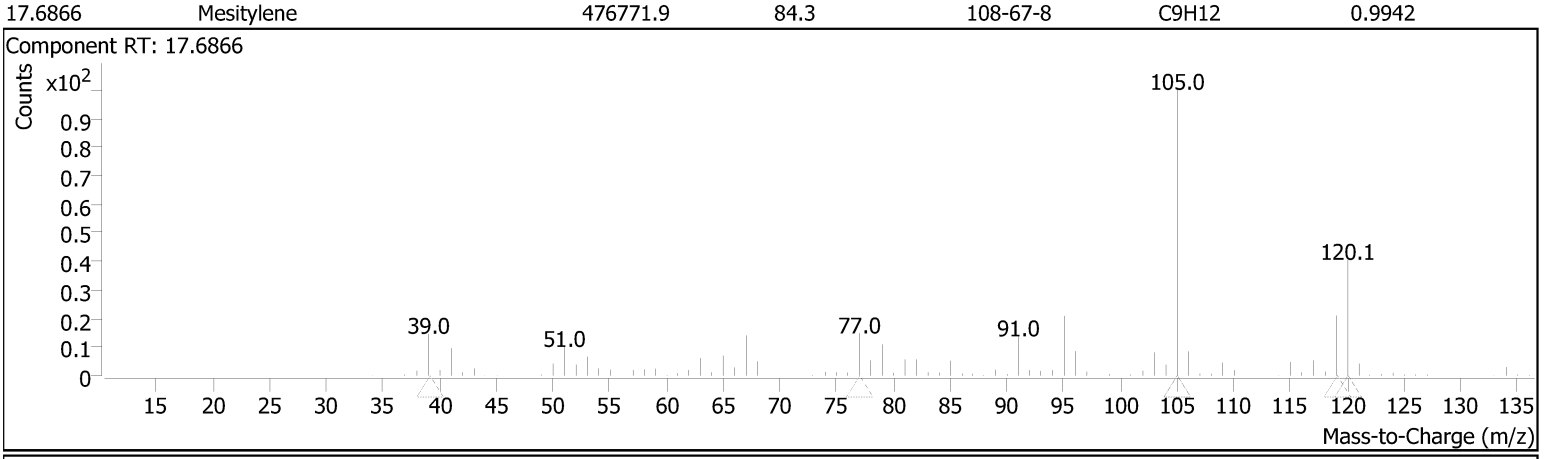



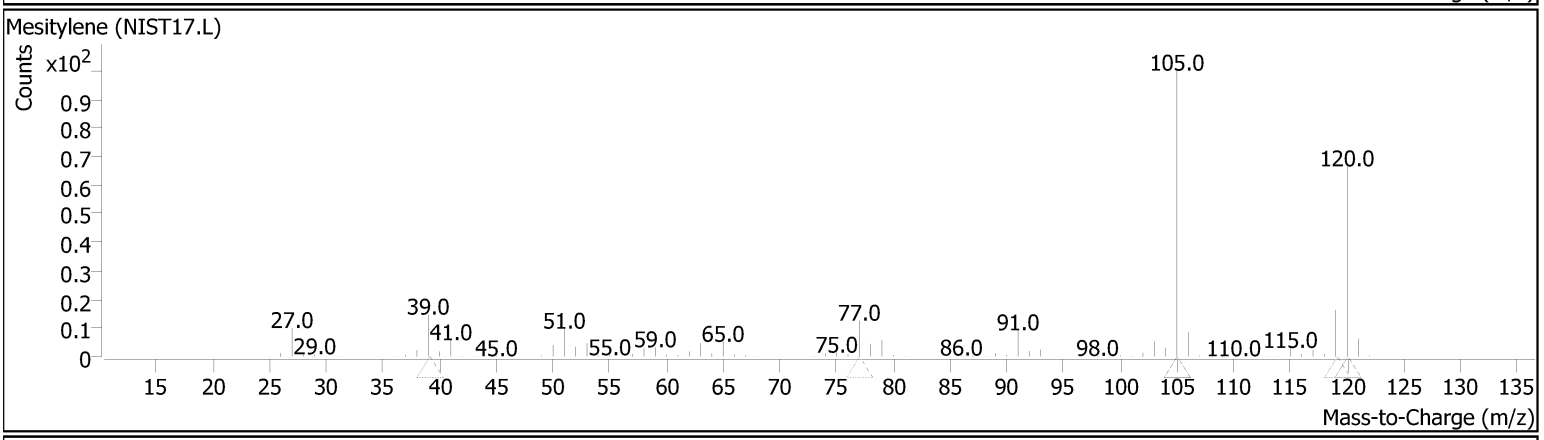



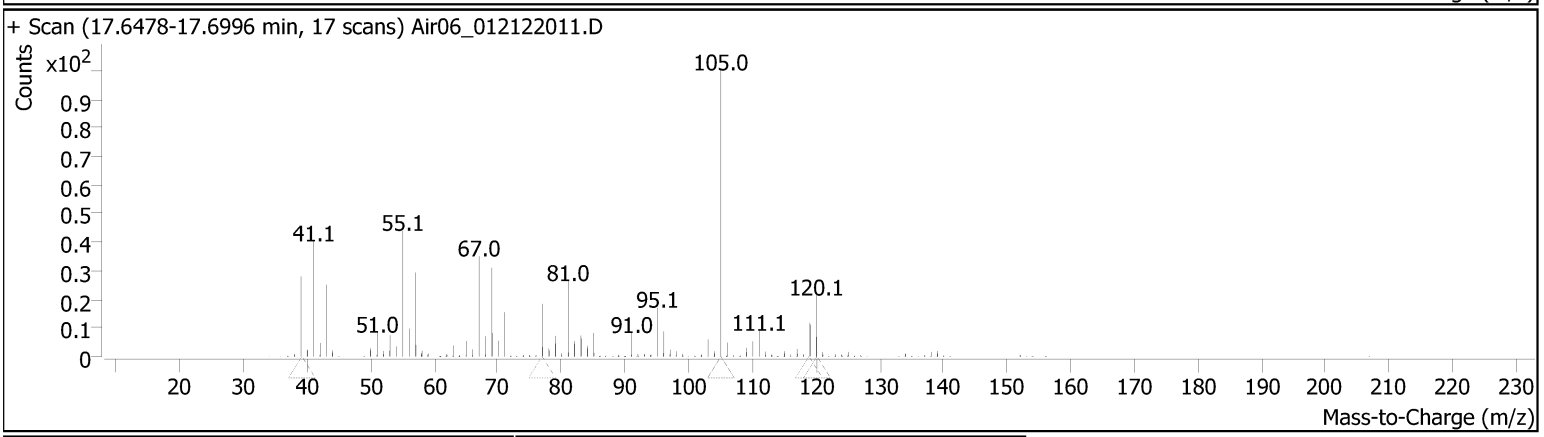



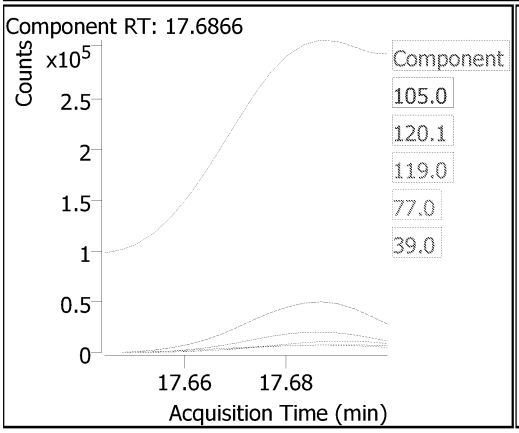



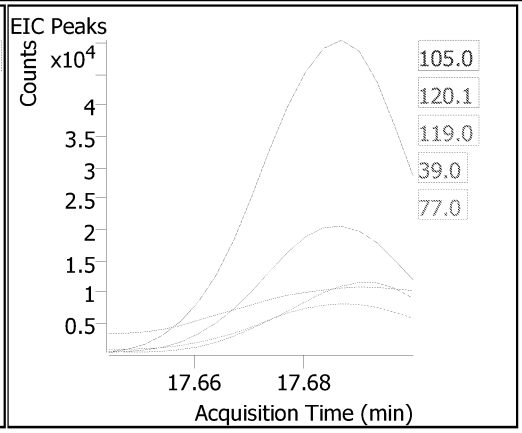
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6866 | Mesitylene | 476771.9 | 84.3 | 108-67-8 | C9H12 | 0.9942 |

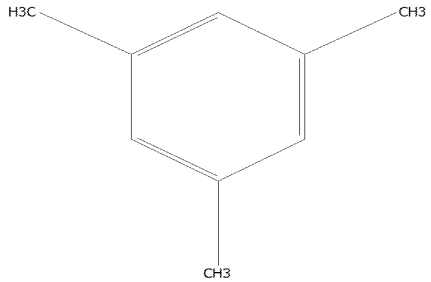


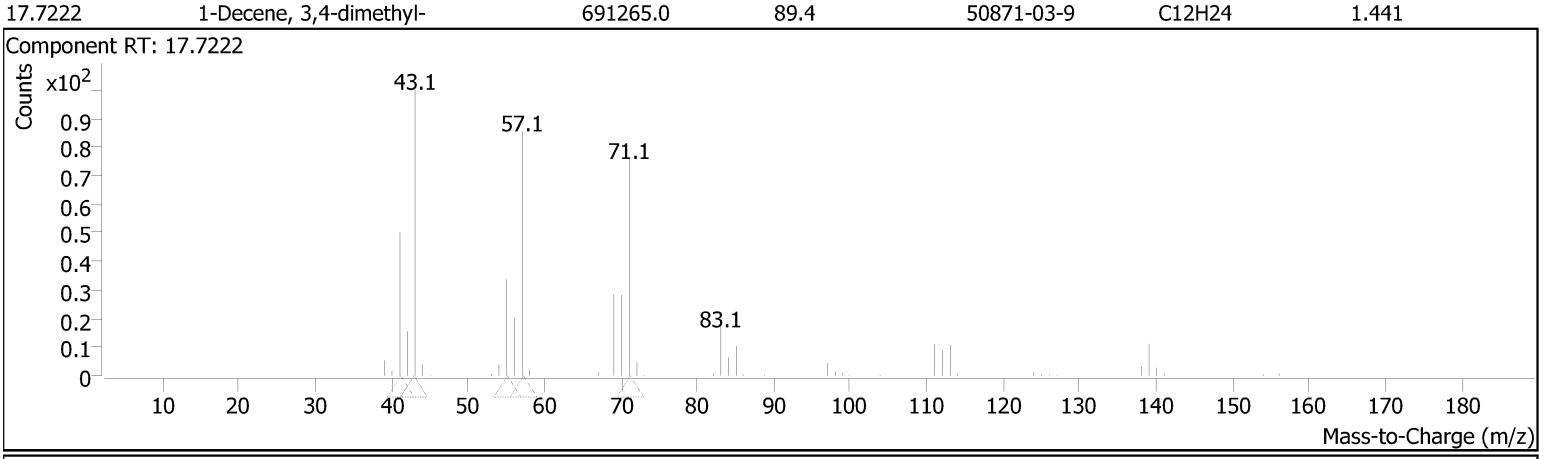



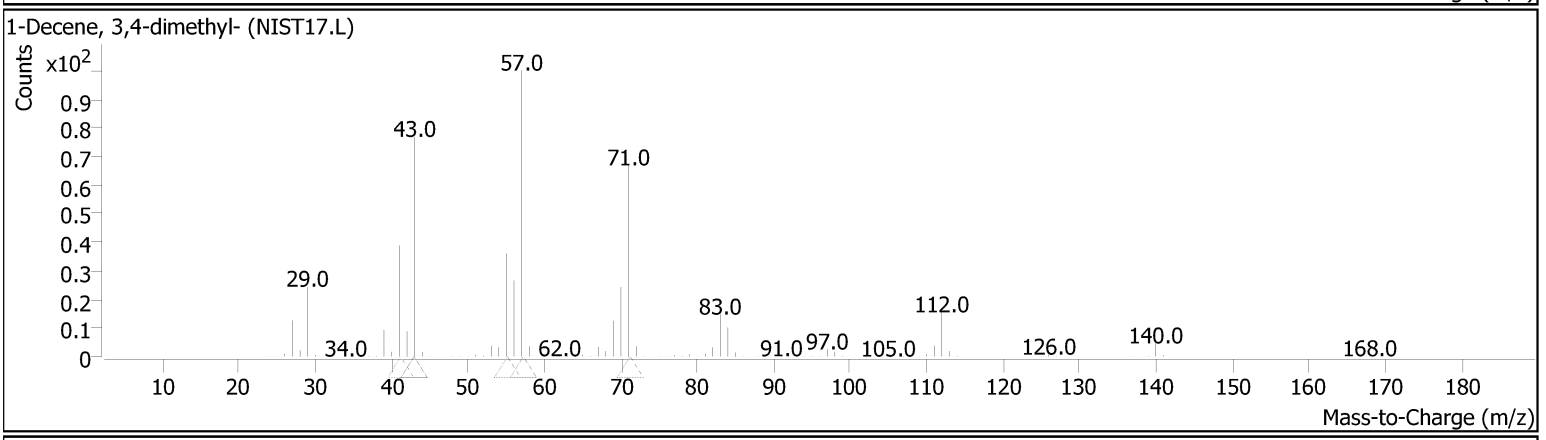



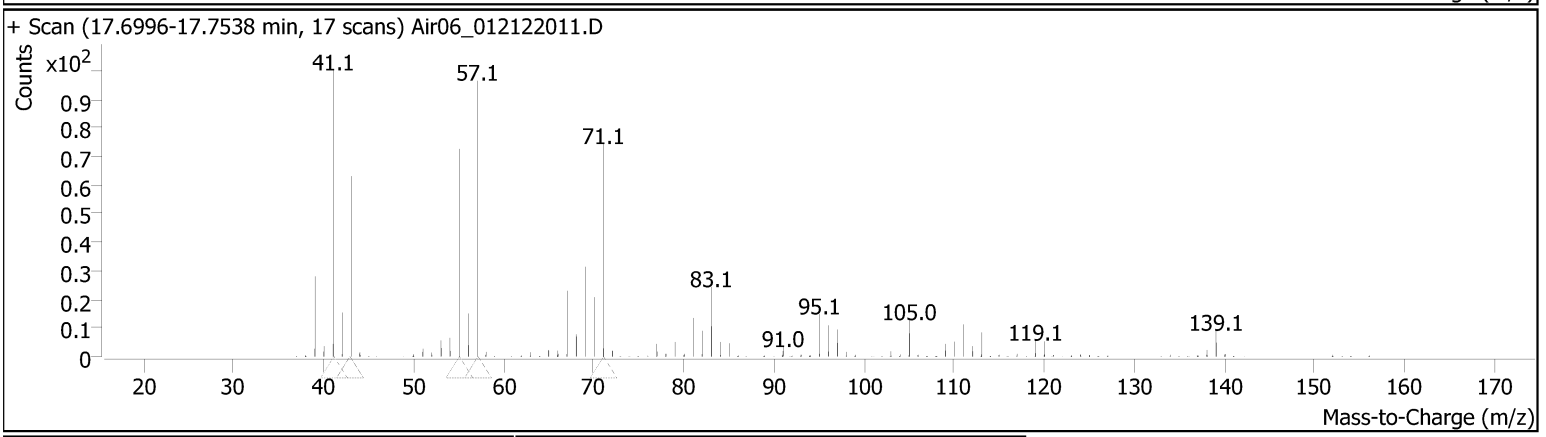



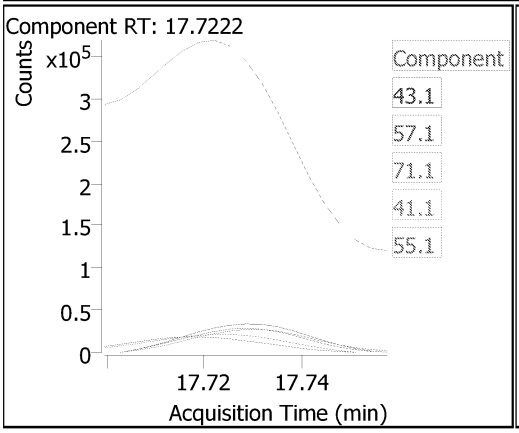



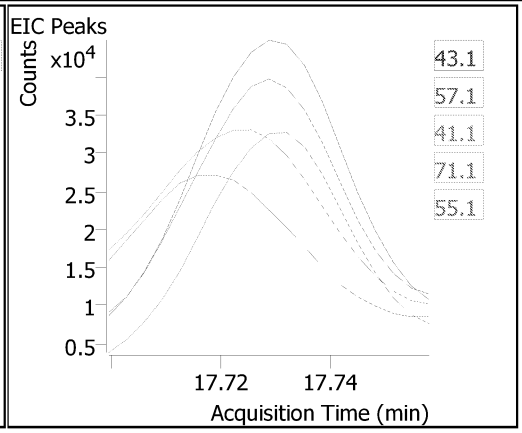
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.7222 | 1-Decene, 3,4-dimethyl- | 691265.0 | 89.4 | 50871-03-9 | C12H24 | 1.441 |

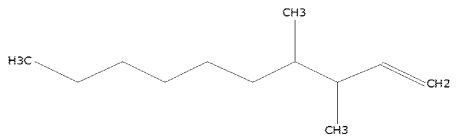


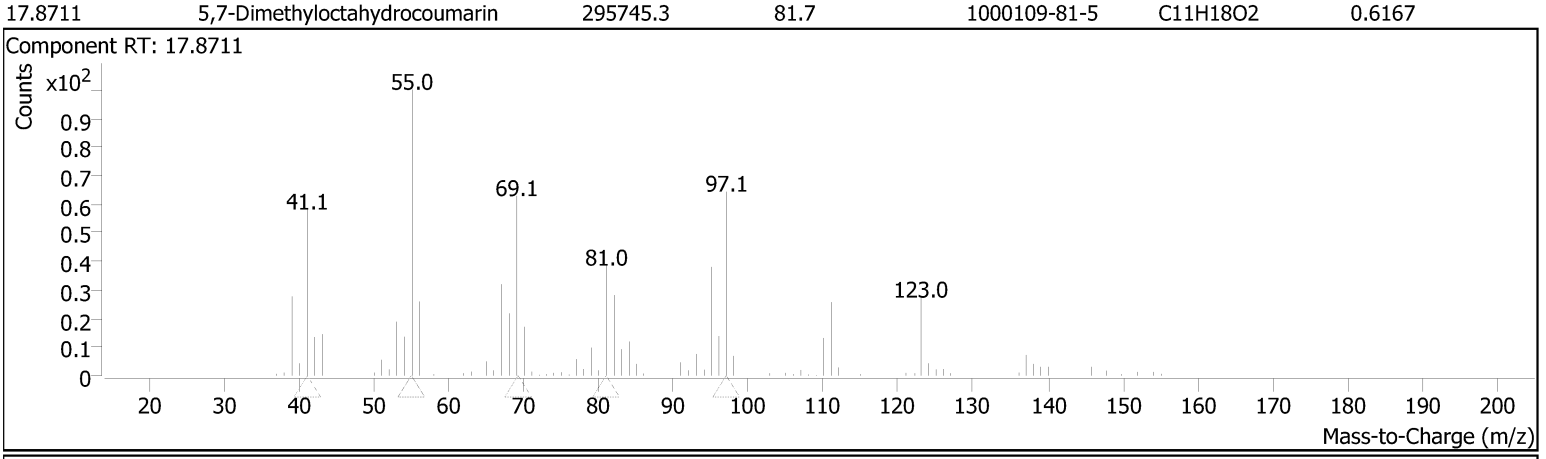



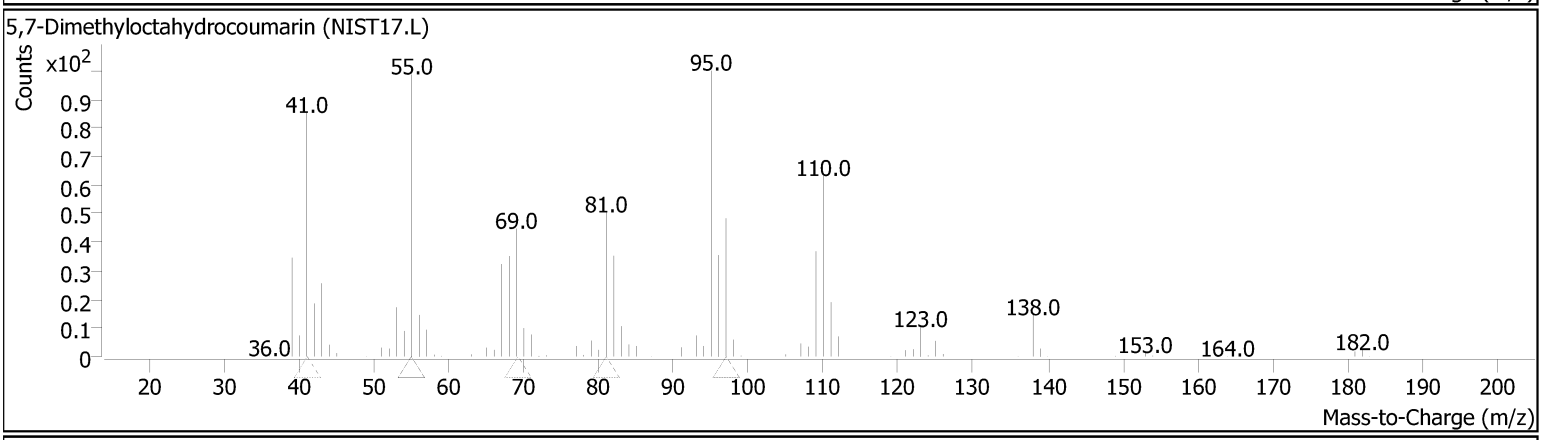



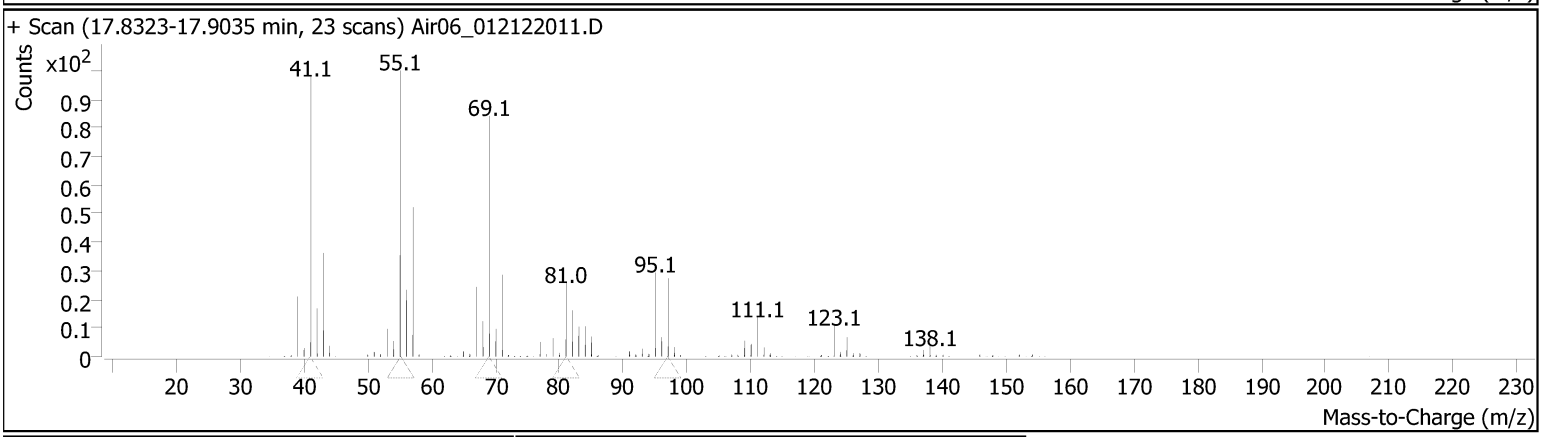



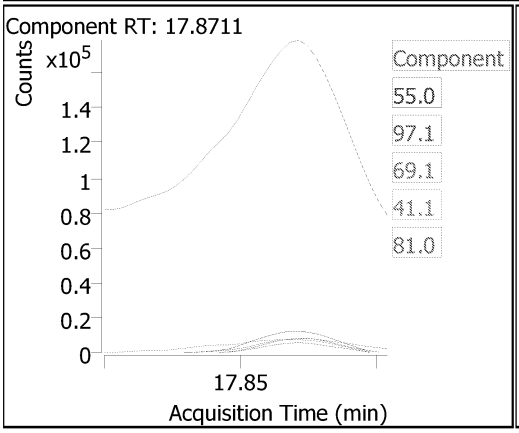



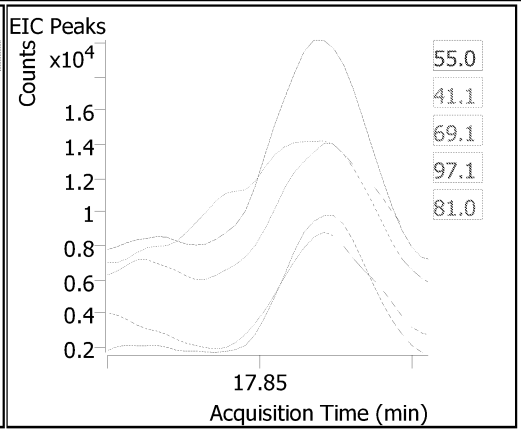
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.8711 | 5,7-Dimethyloctahydrocoumarin | 295745.3 | 81.7 | 1000109-81-5 | C11H18O2 | 0.6167 |

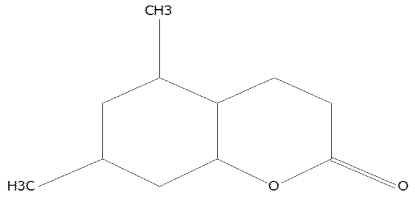


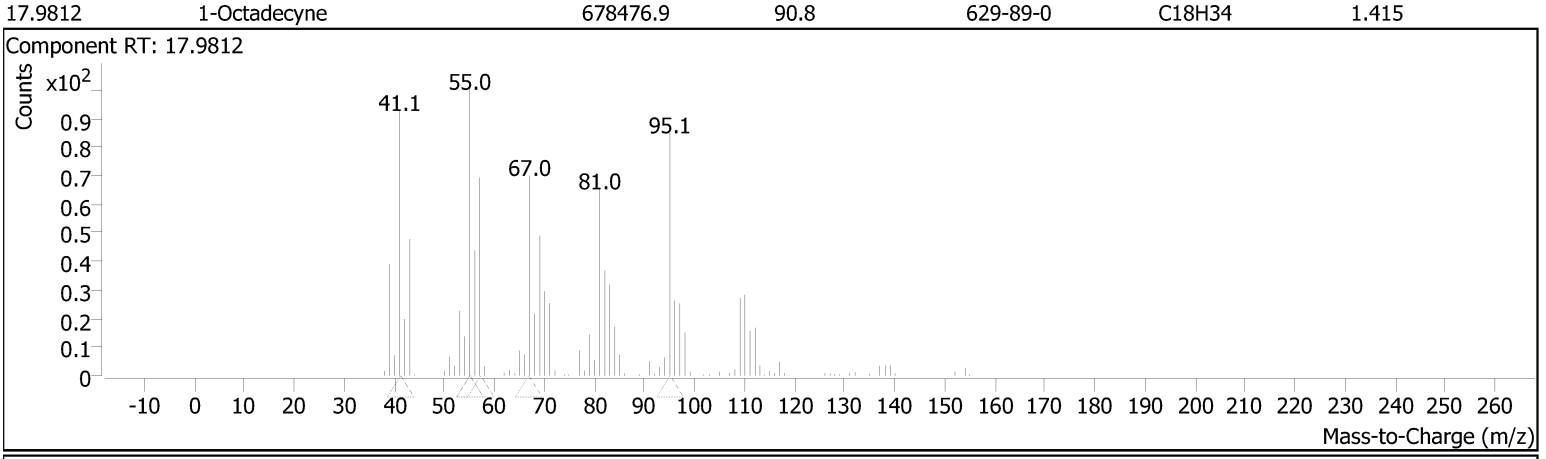



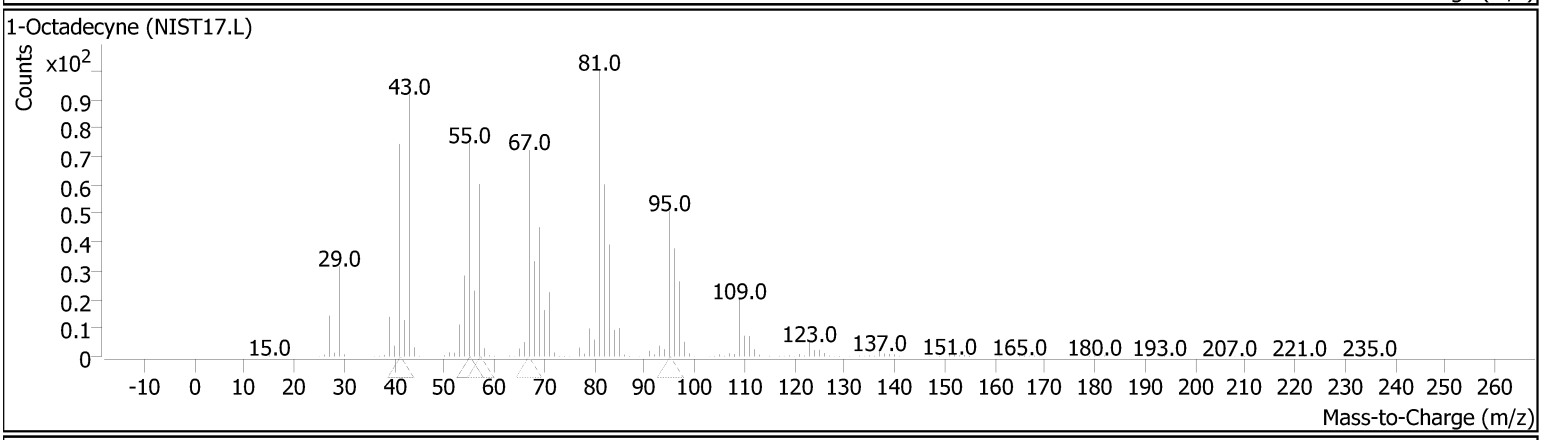



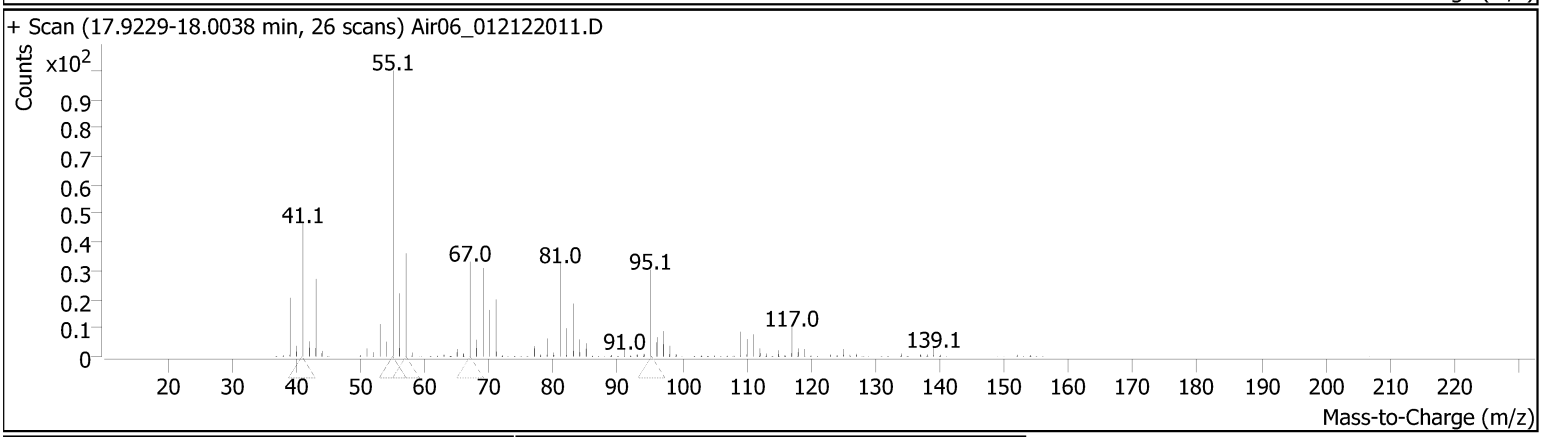



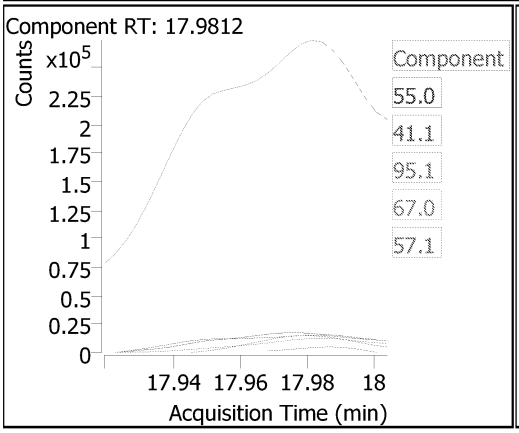



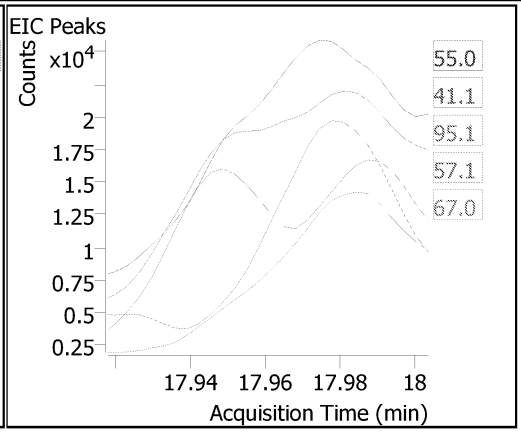
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.9812 | 1-Octadecyne | 678476.9 | 90.8 | 629-89-0 | C18H34 | 1.415 |



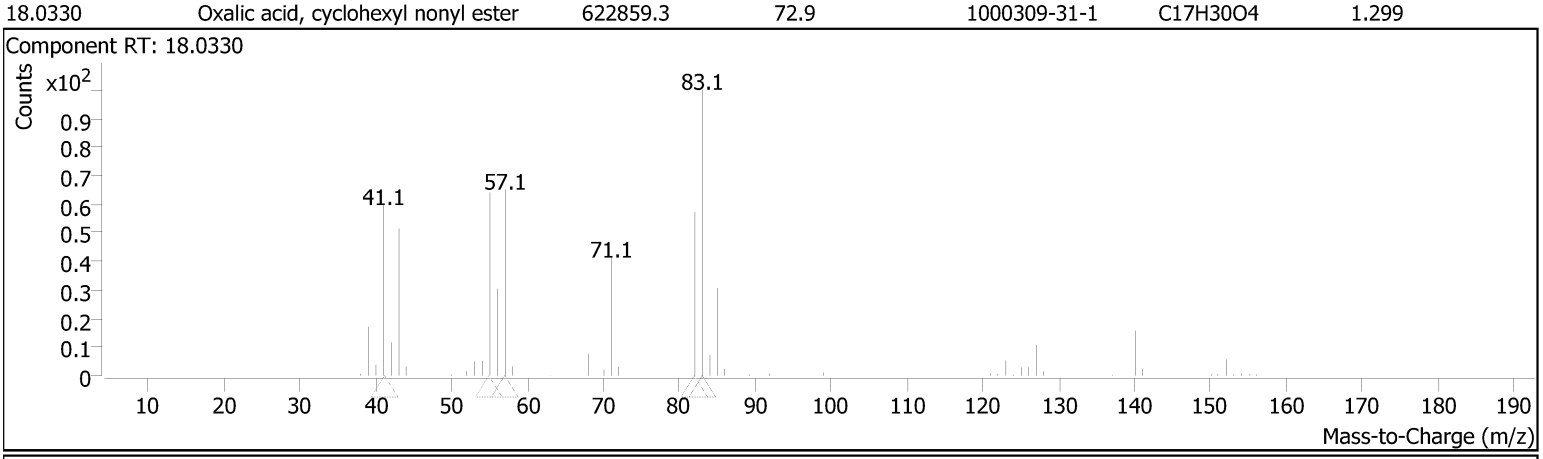



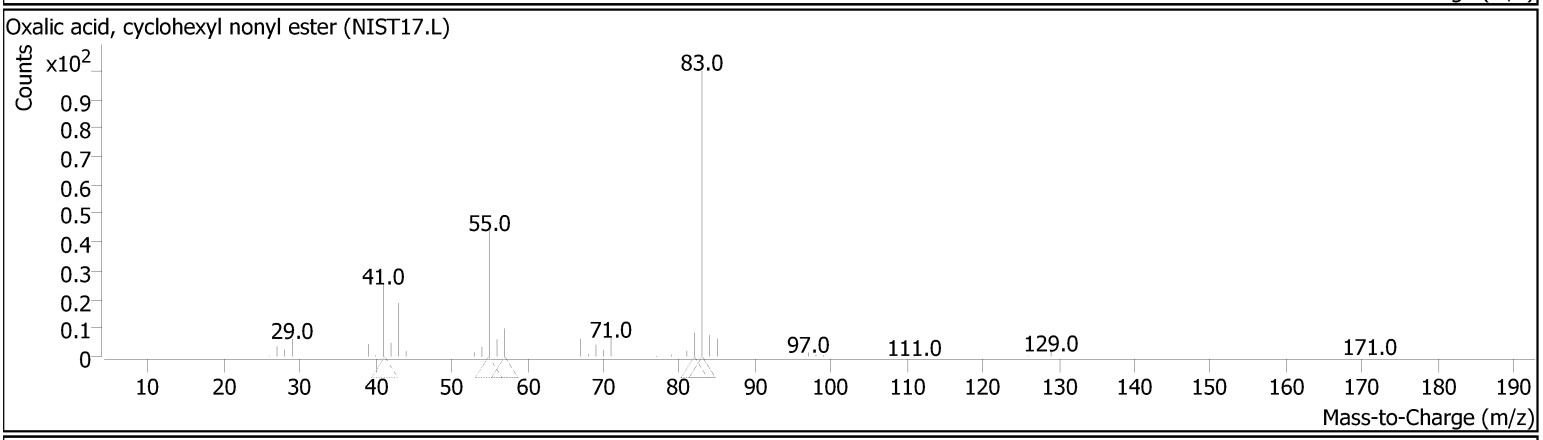



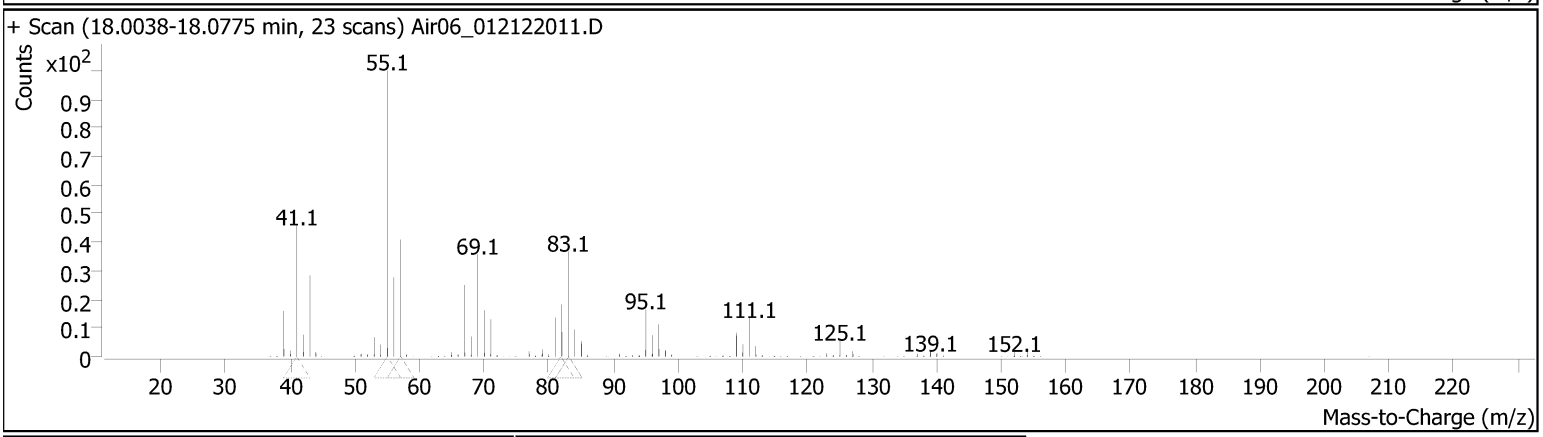



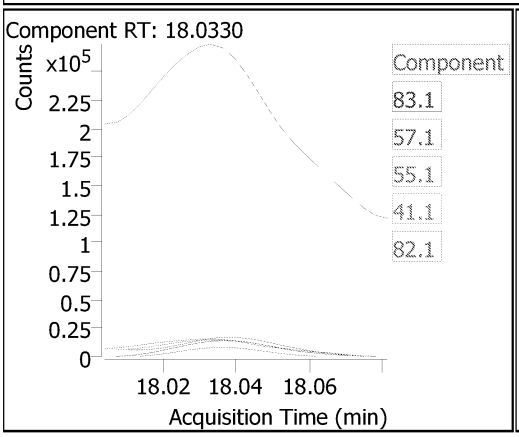


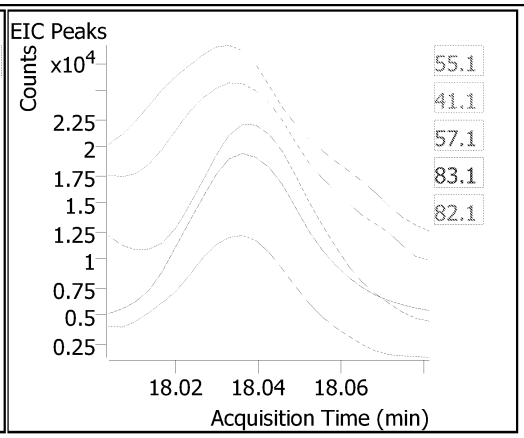

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.0330 | Oxalic acid, cyclohexyl nonyl ester | 622859.3 | 72.9 | 1000309-31-1 | C17H30O4 | 1.299 |

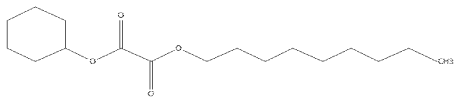


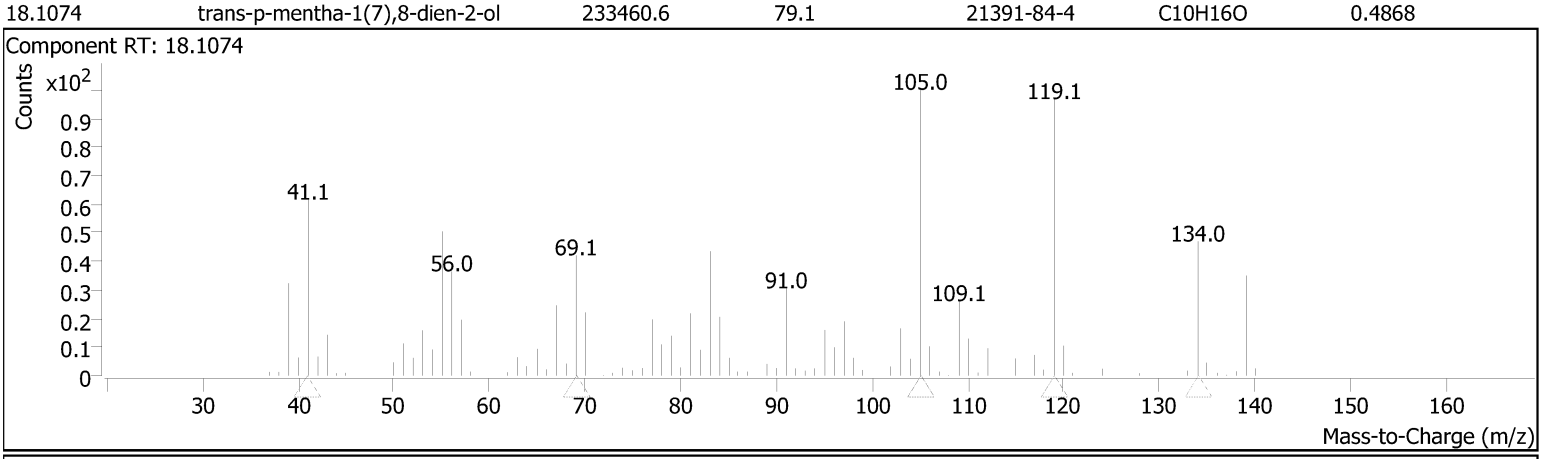



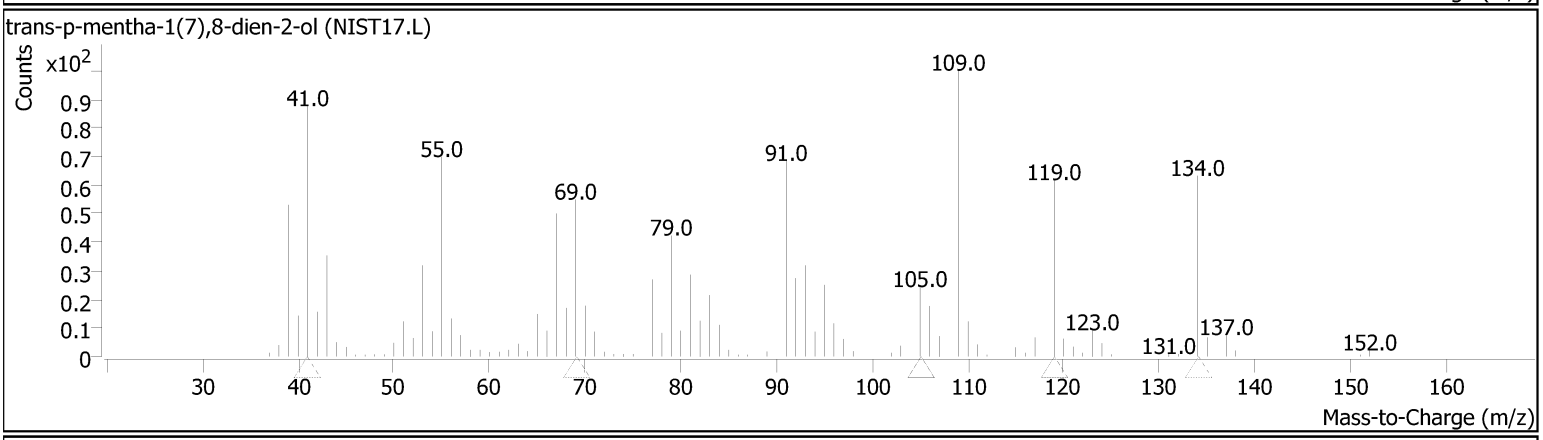



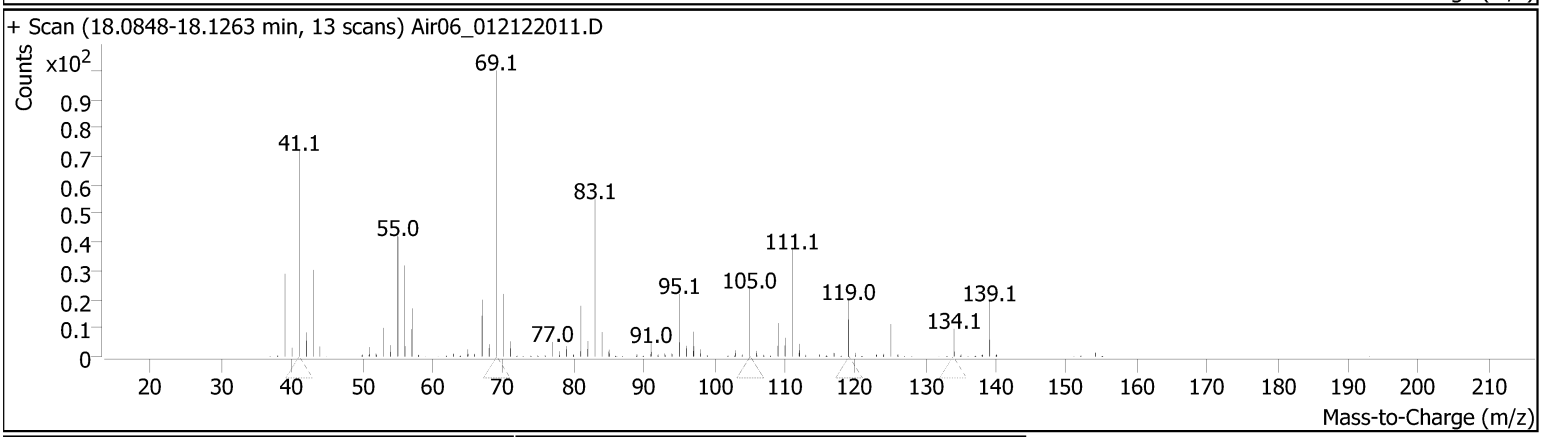



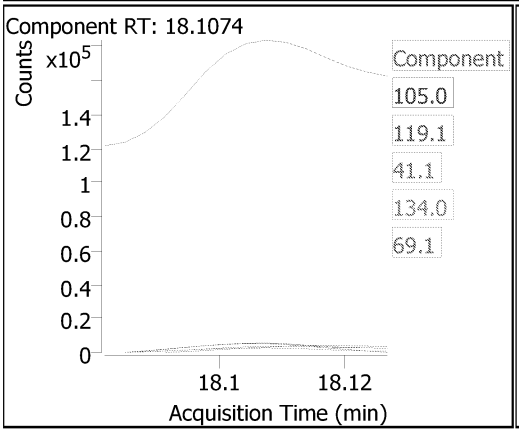



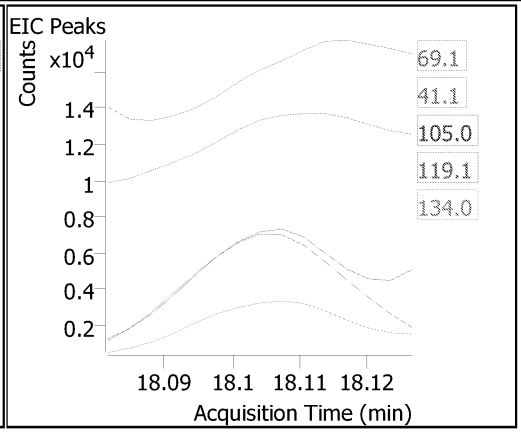
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1074 | trans-p-mentha-1(7),8-dien-2-ol | 233460.6 | 79.1 | 21391-84-4 | C10H16O | 0.4868 |

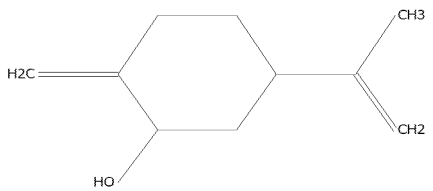


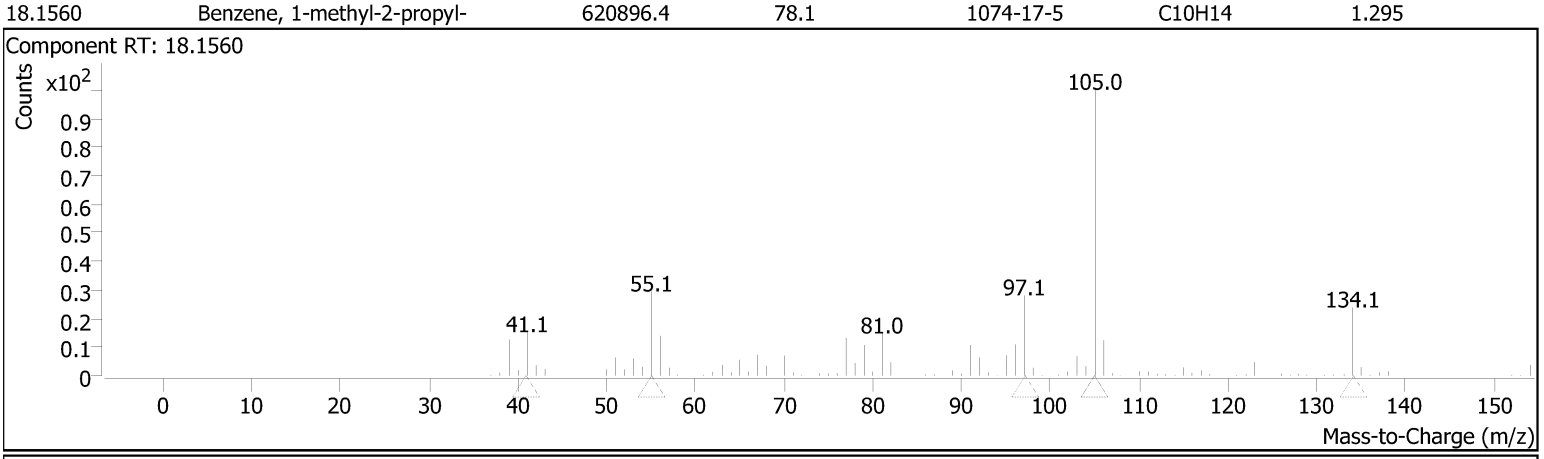



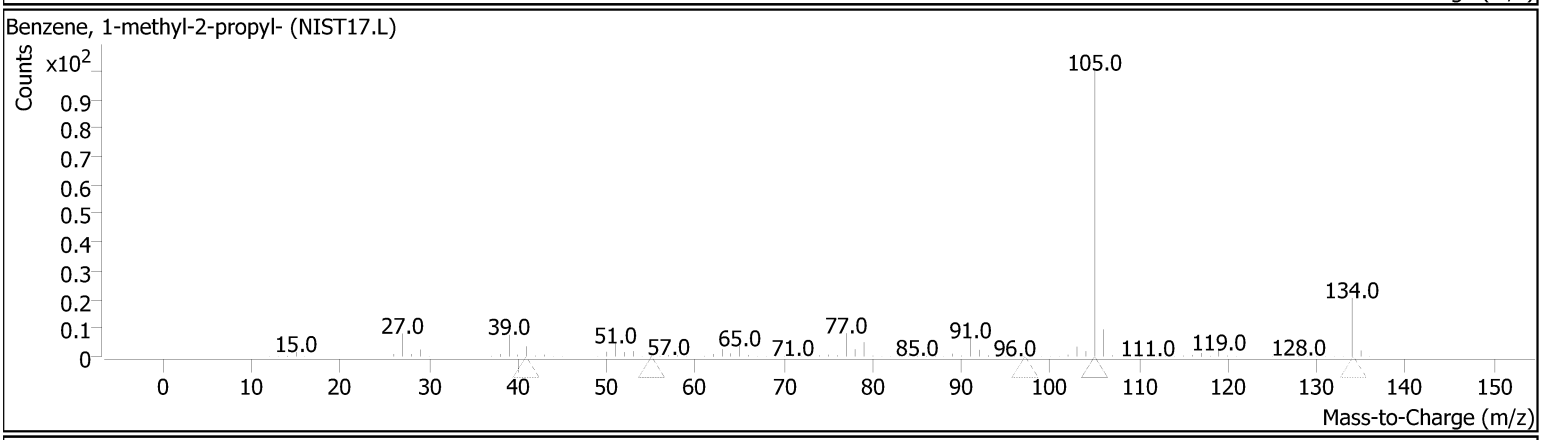



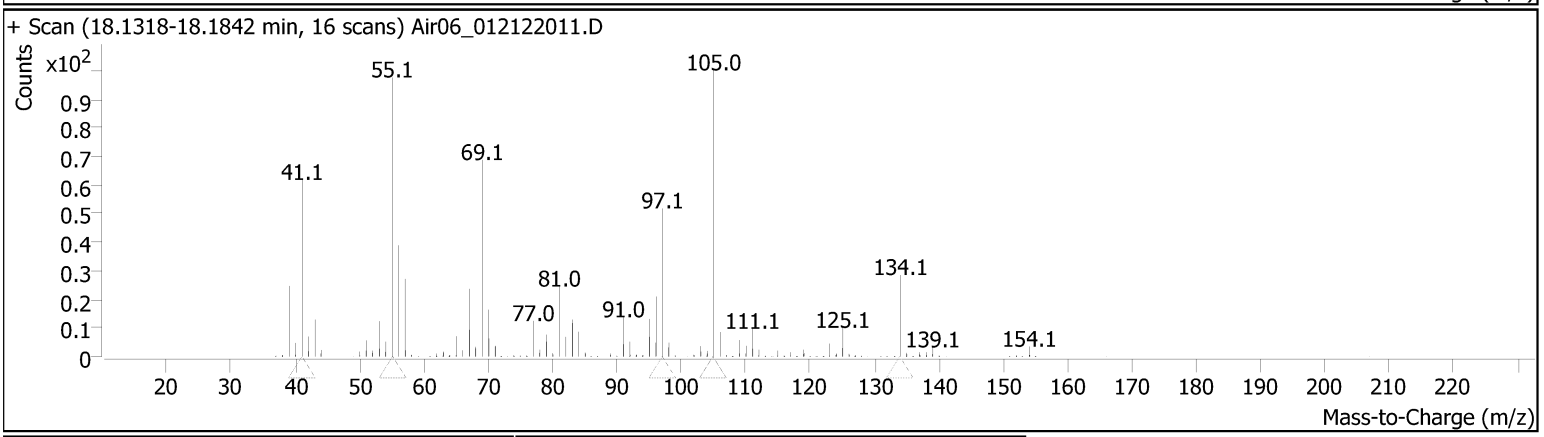



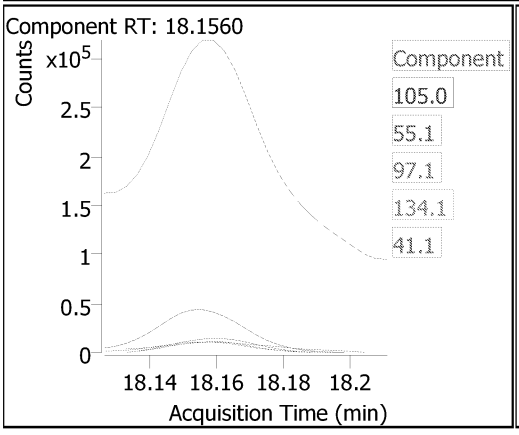



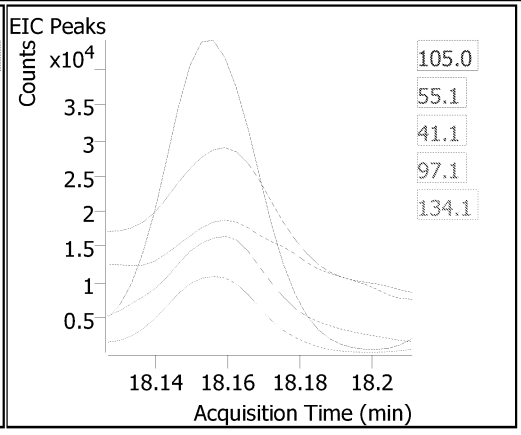
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1560 | Benzene, 1-methyl-2-propyl- | 620896.4 | 78.1 | 1074-17-5 | C10H14 | 1.295 |

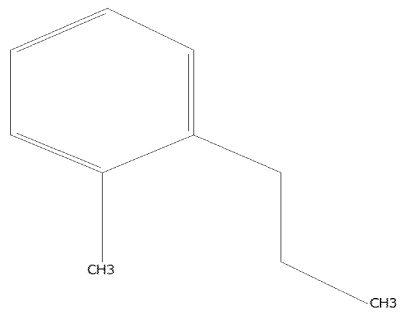


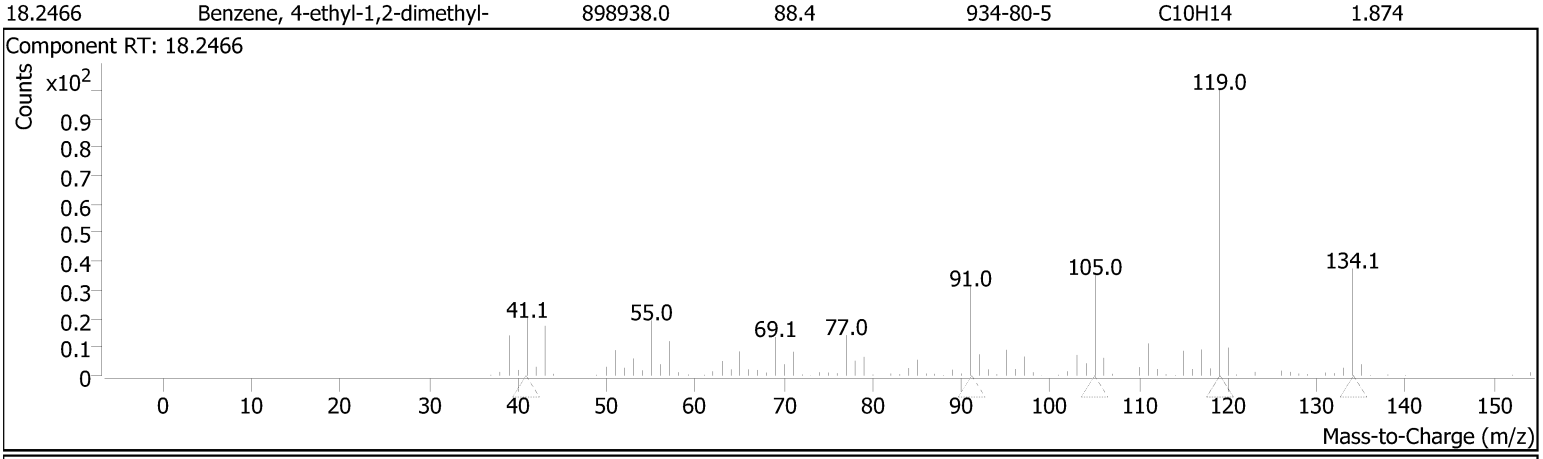



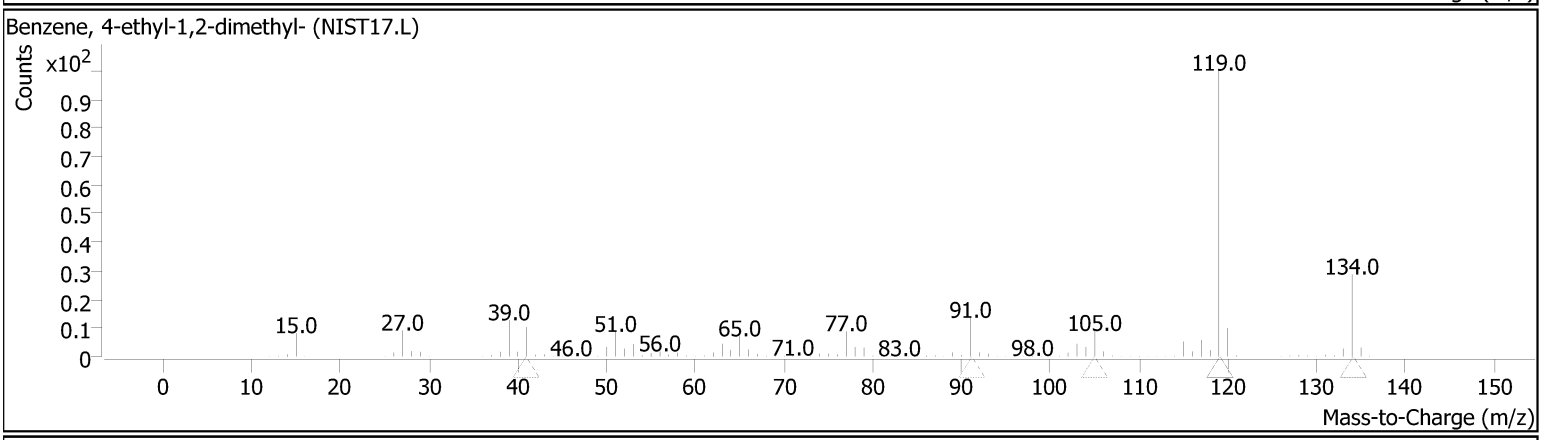



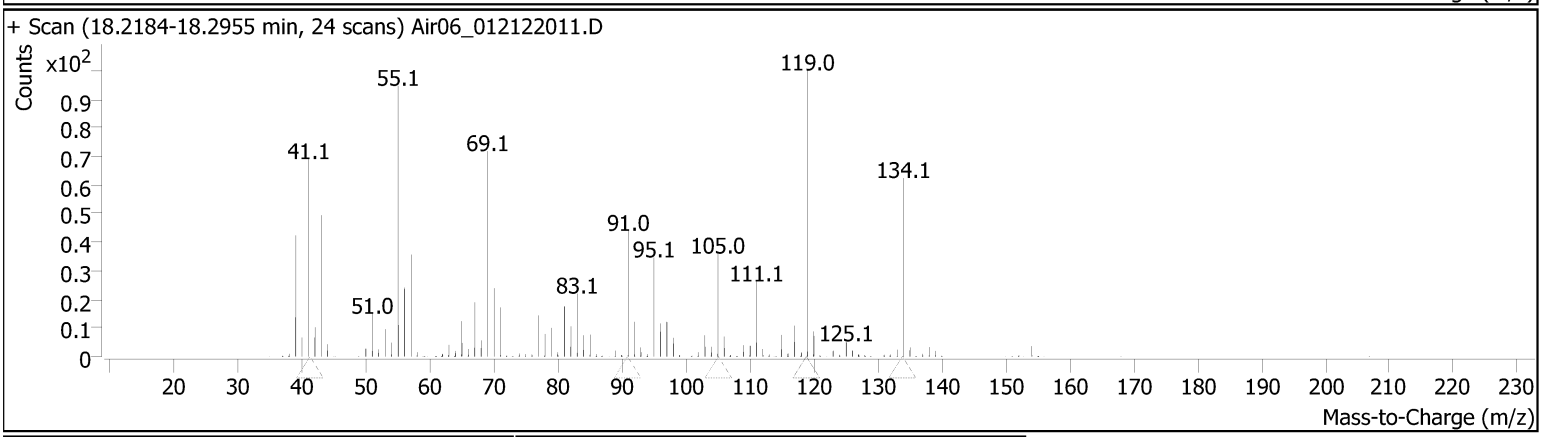



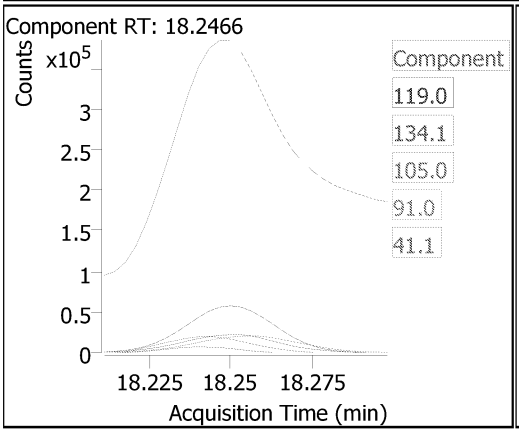



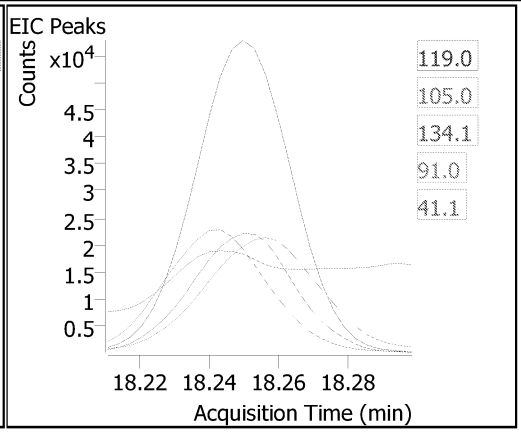
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.2466 | Benzene, 4-ethyl-1,2-dimethyl- | 898938.0 | 88.4 | 934-80-5 | C10H14 | 1.874 |

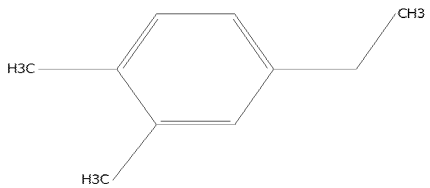


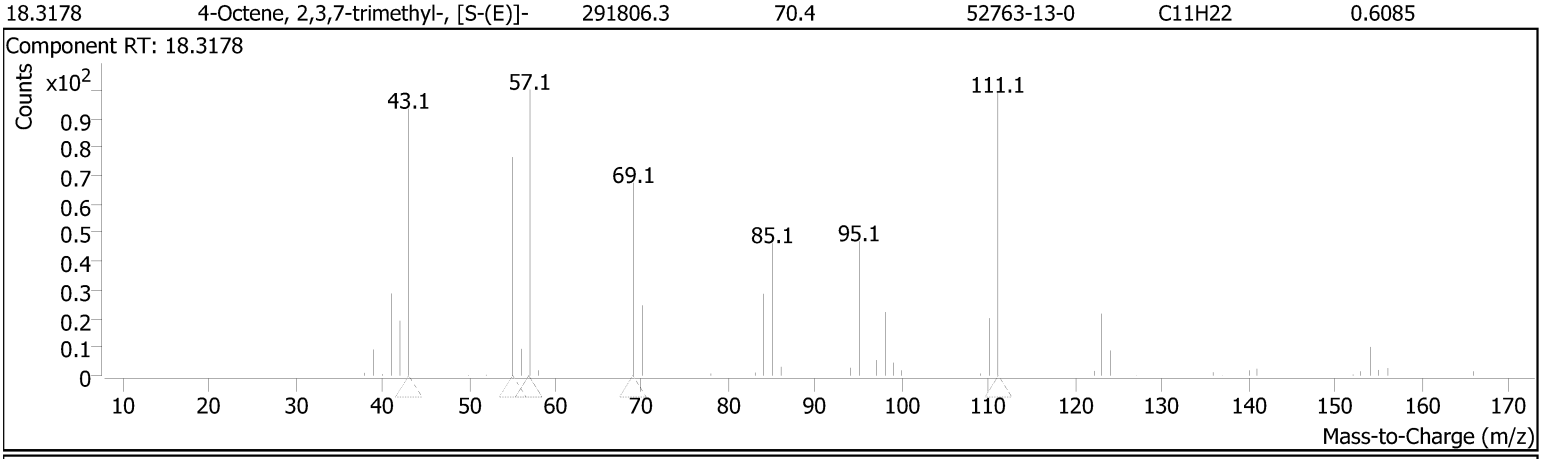



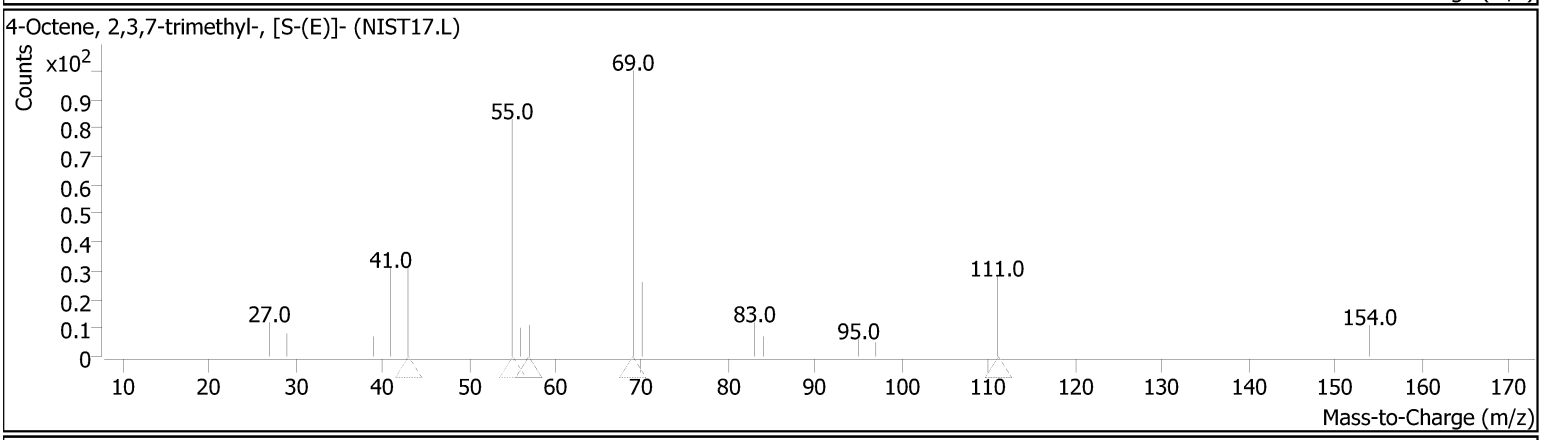



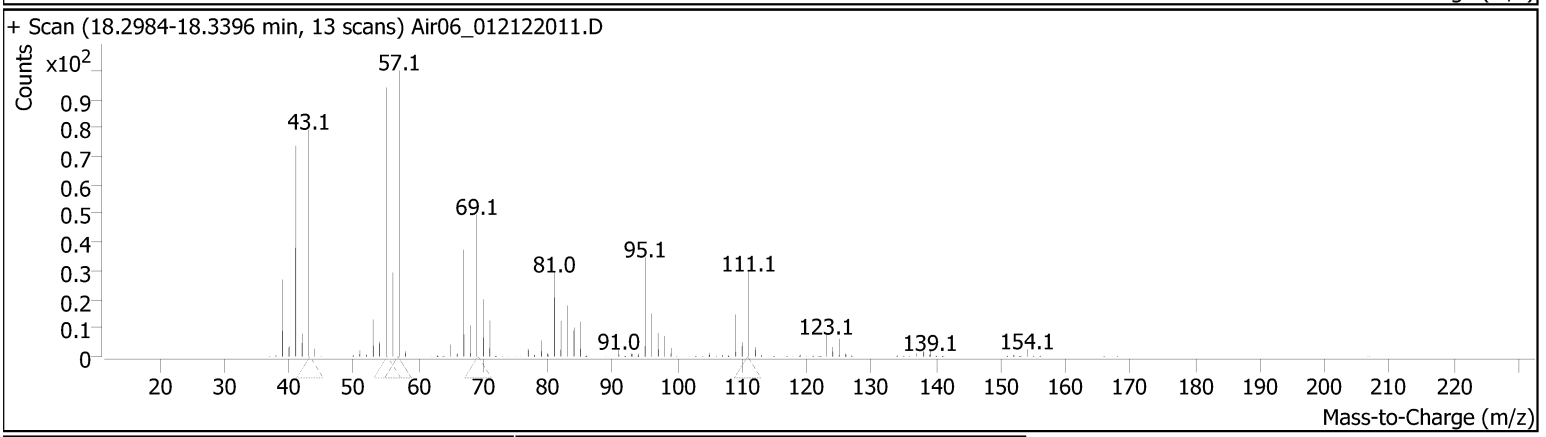



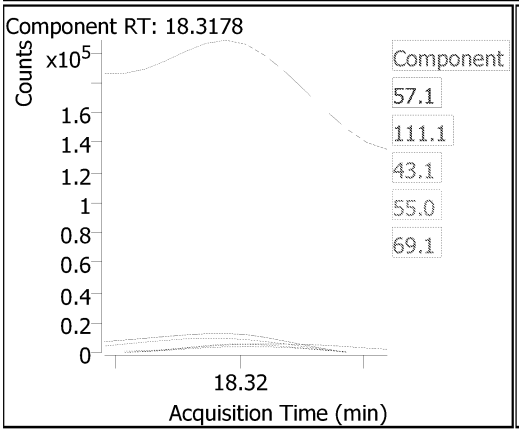



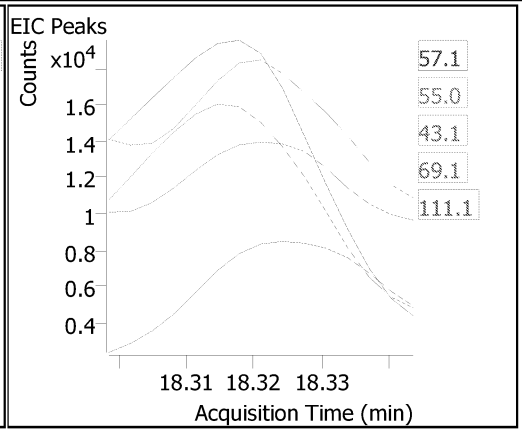
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3178 | 4-Octene, 2,3,7-trimethyl-, [S-(E)]- | 291806.3 | 70.4 | 52763-13-0 | C11H22 | 0.6085 |

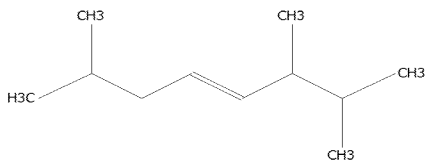


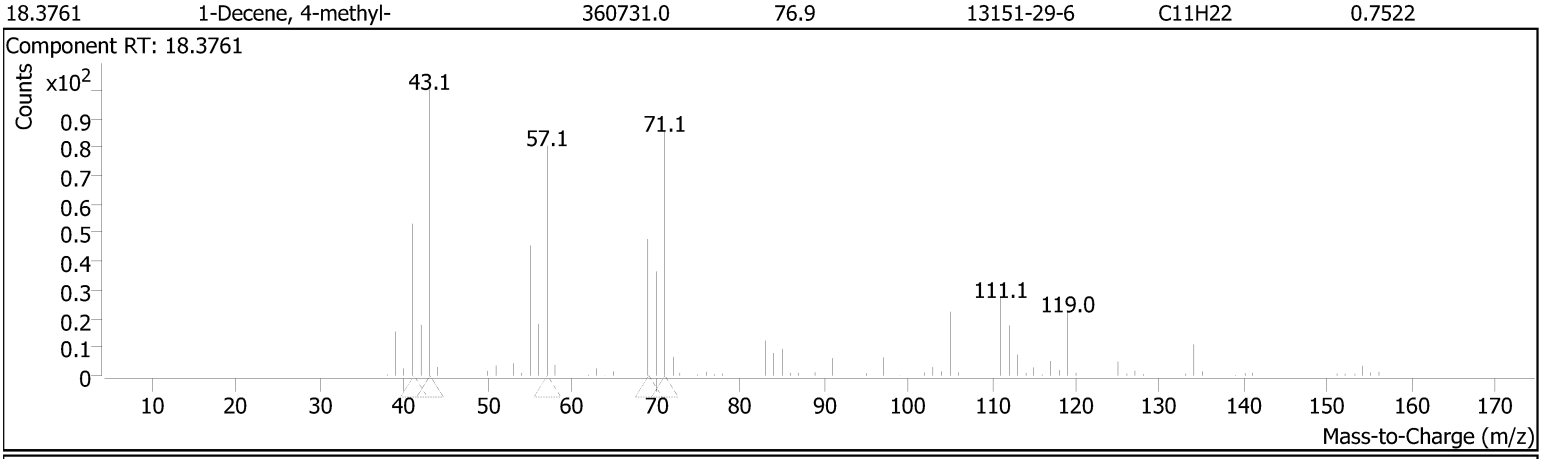



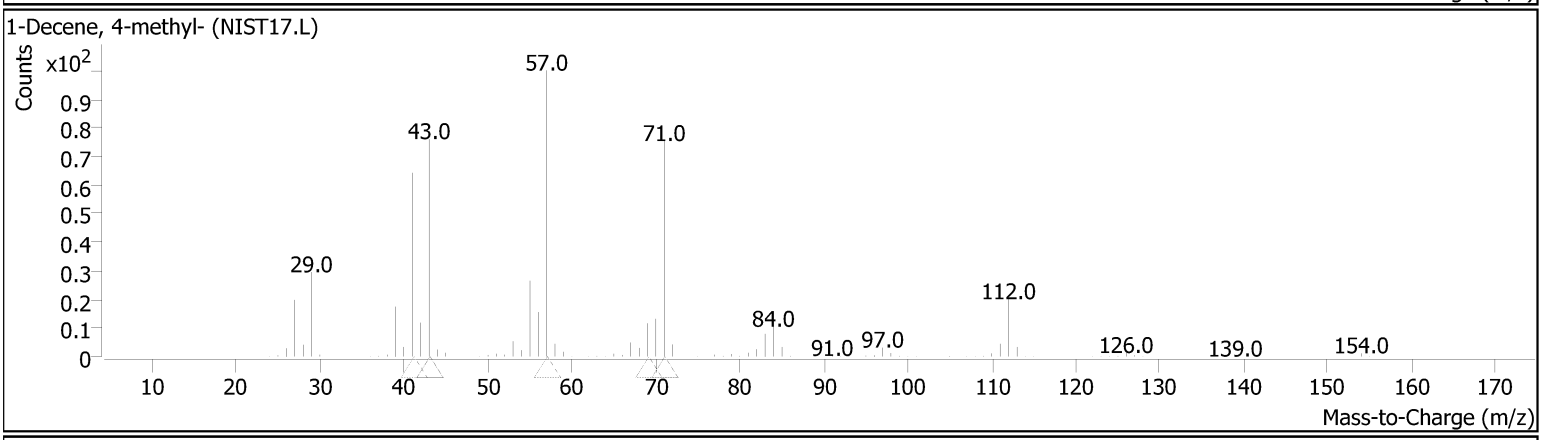



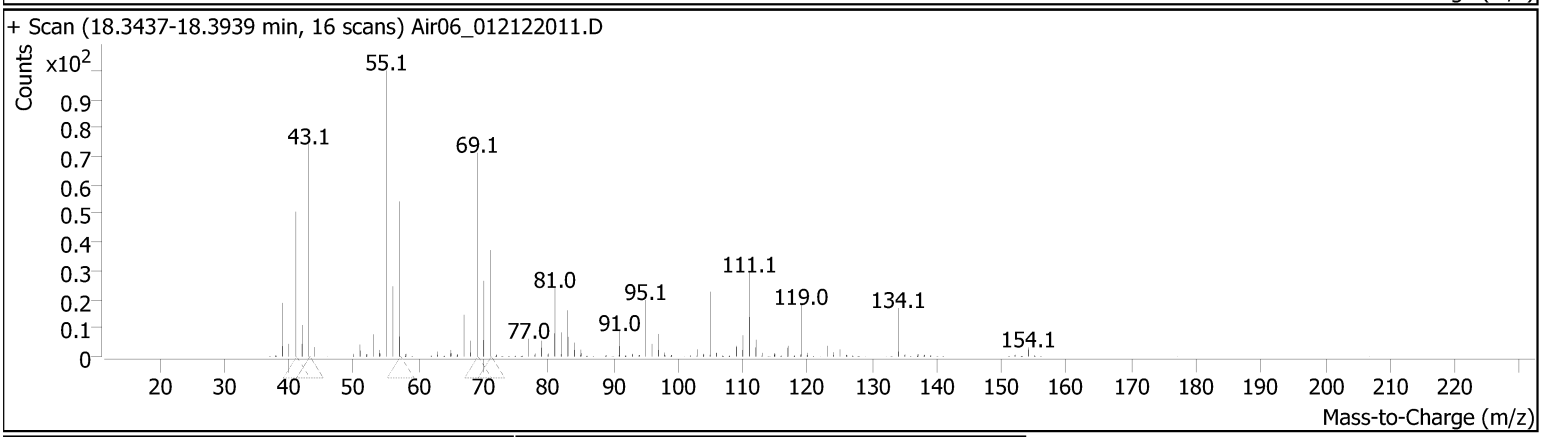



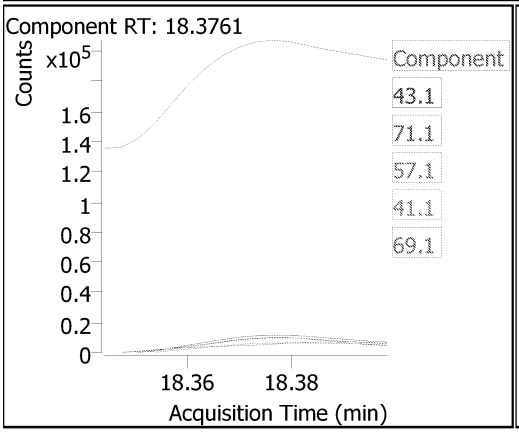



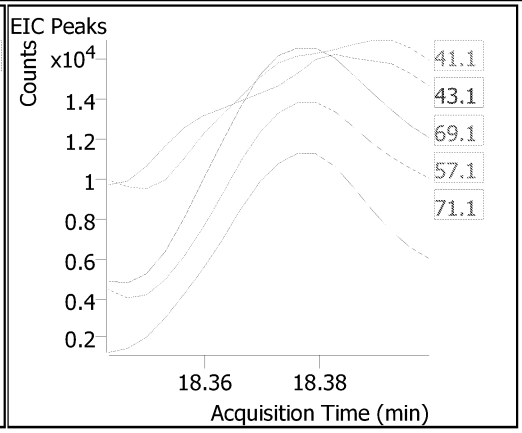
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3761 | 1-Decene, 4-methyl- | 360731.0 | 76.9 | 13151-29-6 | C11H22 | 0.7522 |

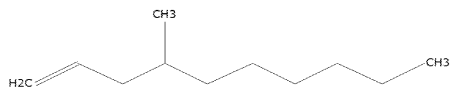


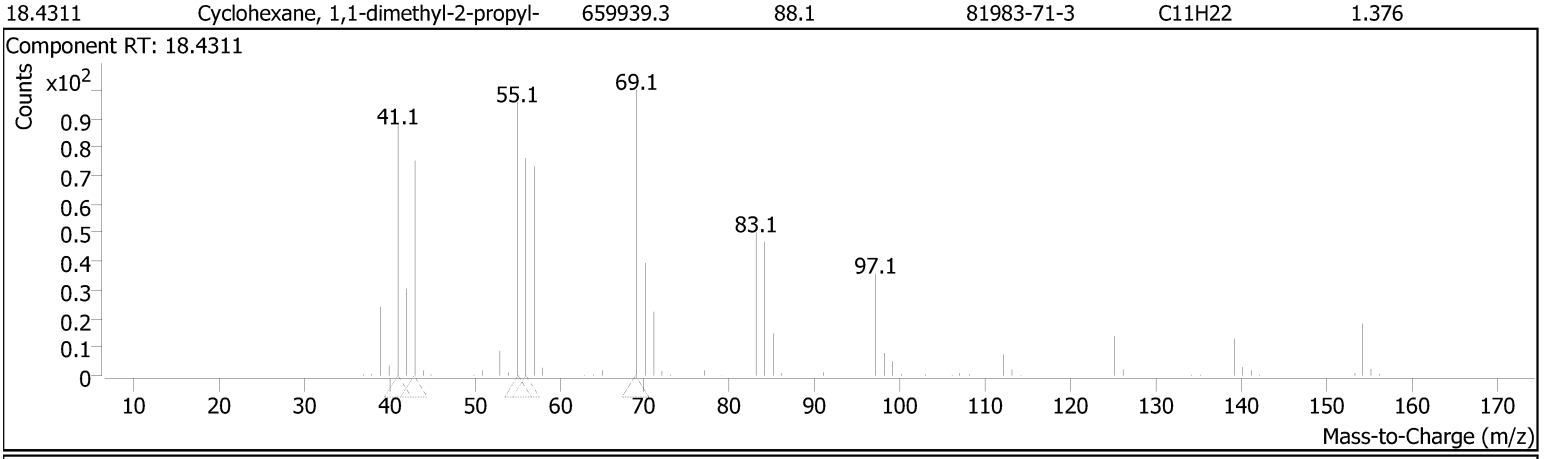



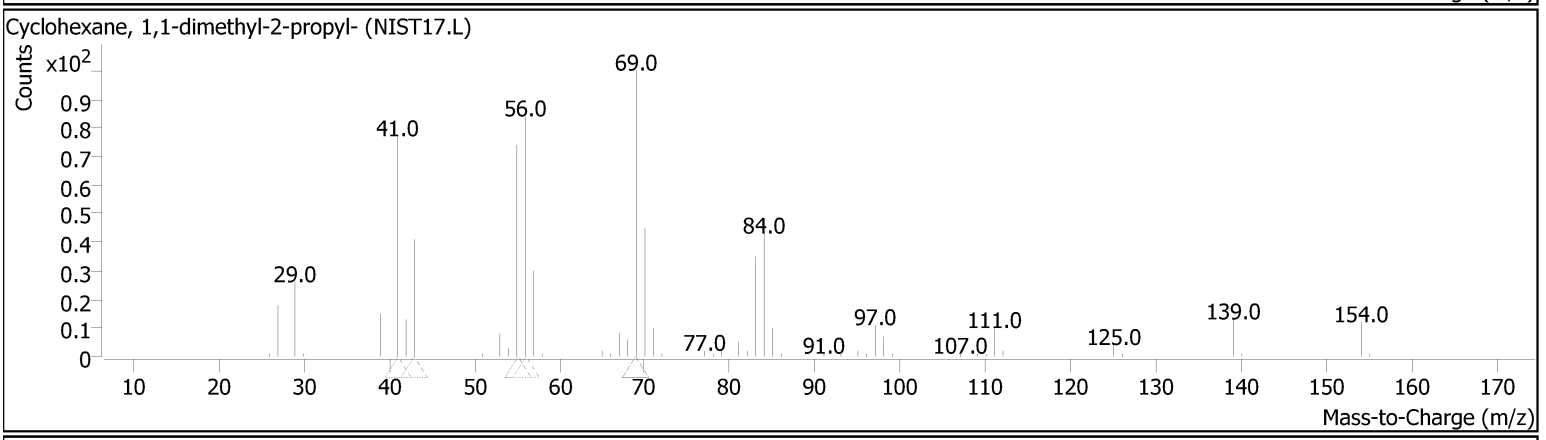



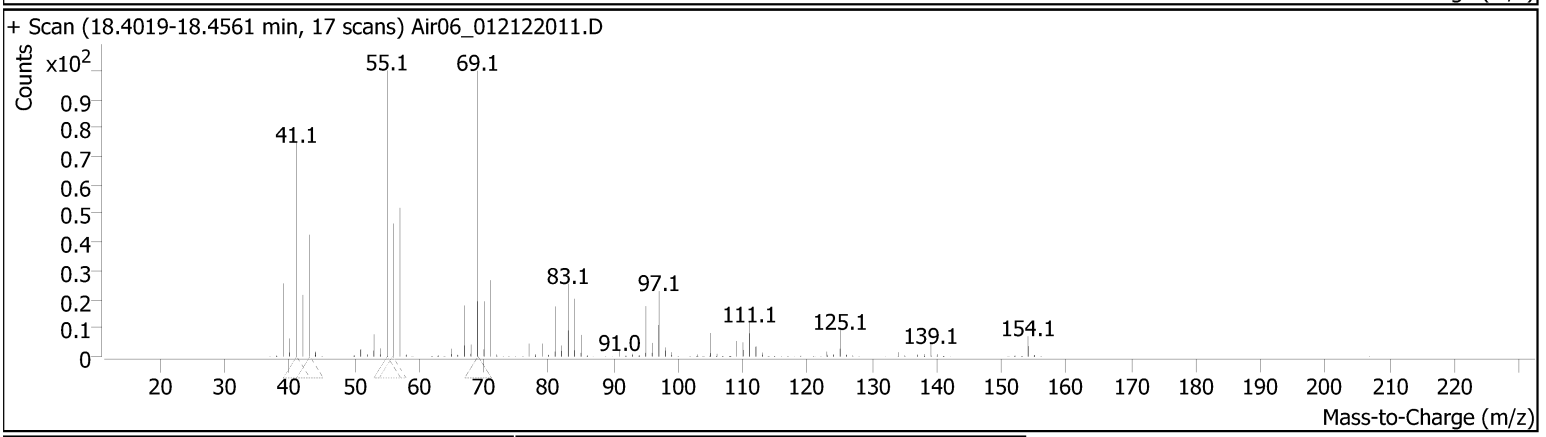



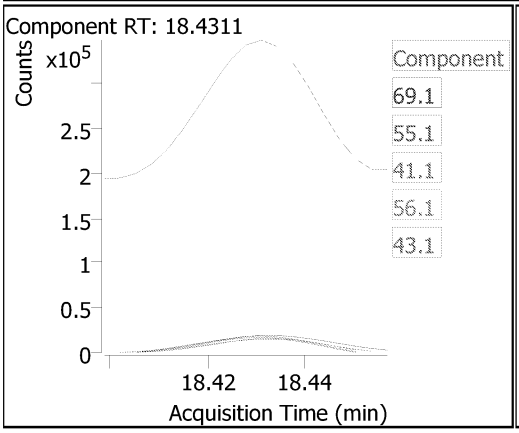



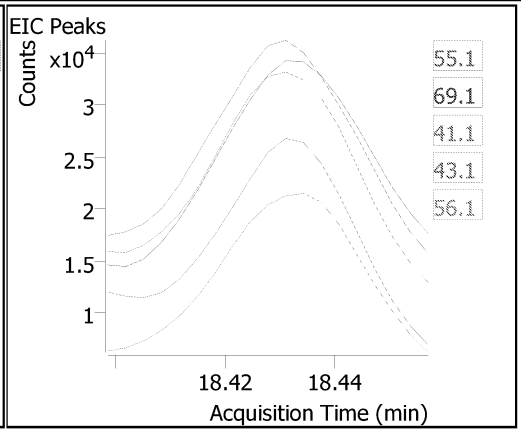
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4311 | Cyclohexane, 1,1-dimethyl-2-propyl- | 659939.3 | 88.1 | 81983-71-3 | C11H22 | 1.376 |

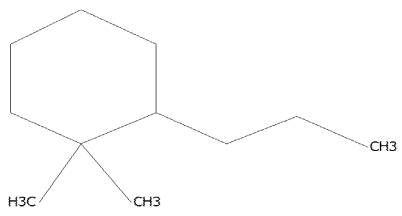


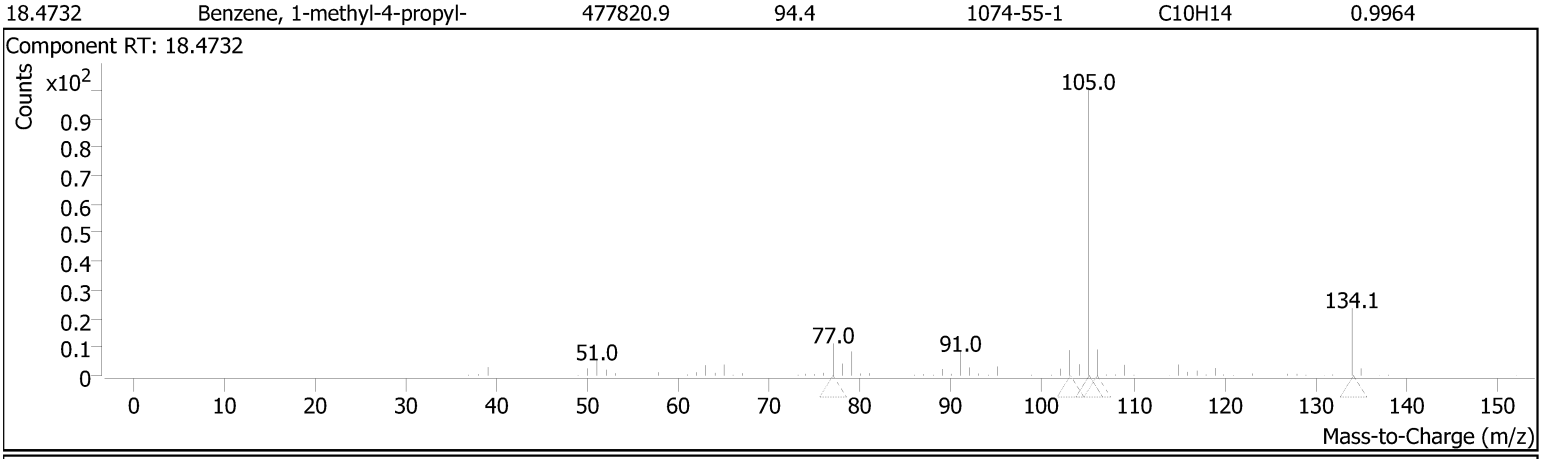



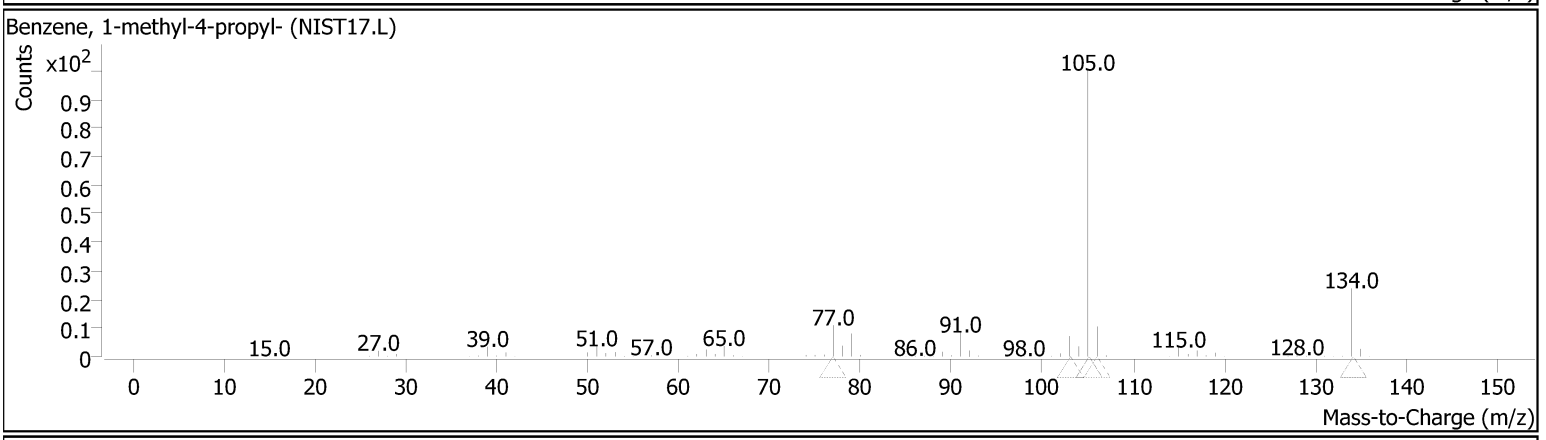



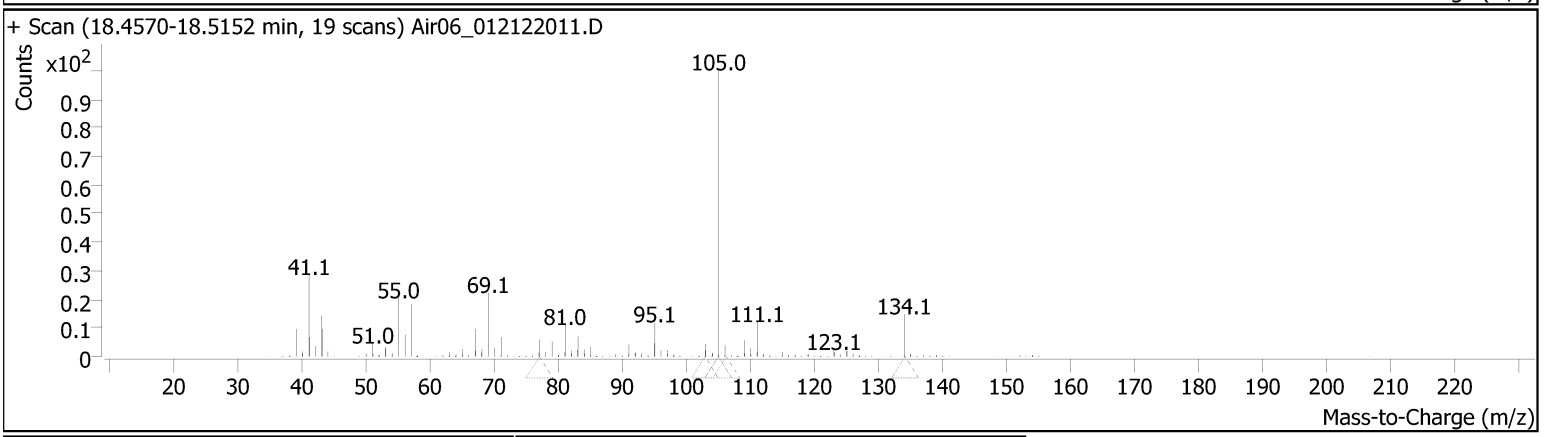



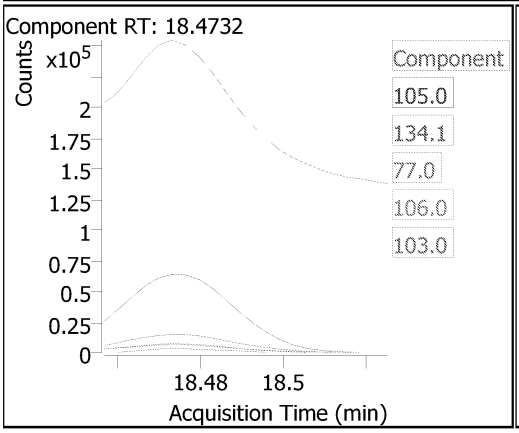



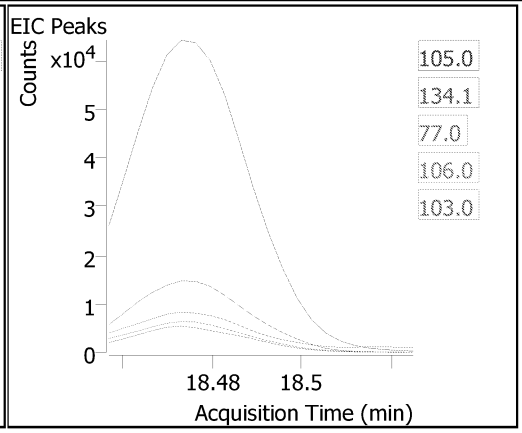
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4732 | Benzene, 1-methyl-4-propyl- | 477820.9 | 94.4 | 1074-55-1 | C10H14 | 0.9964 |

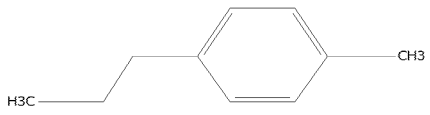


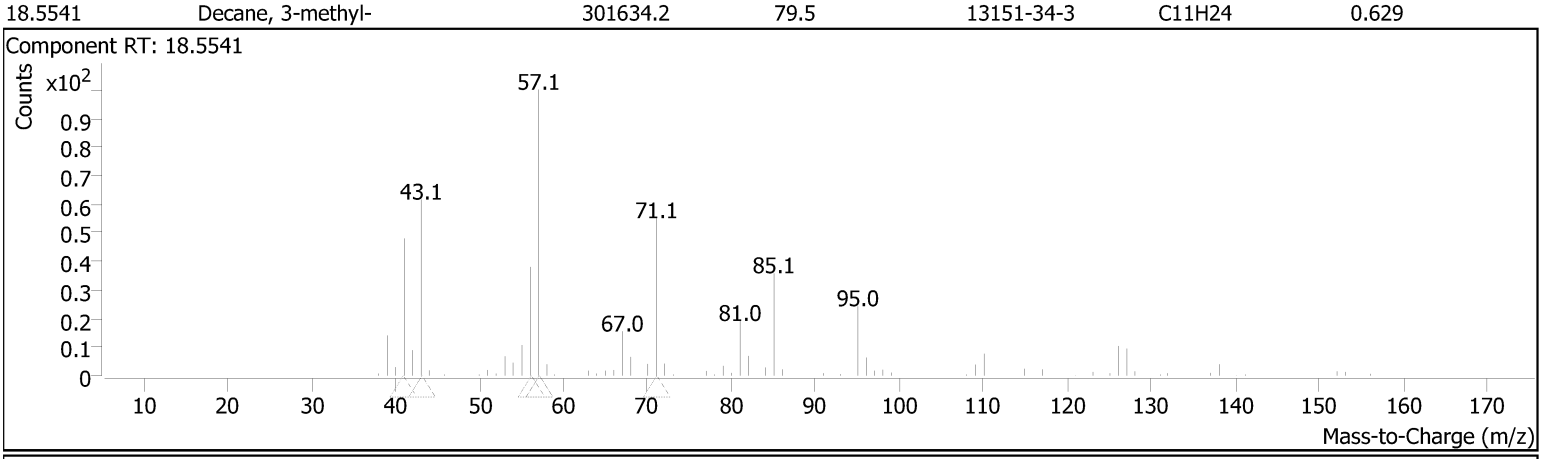



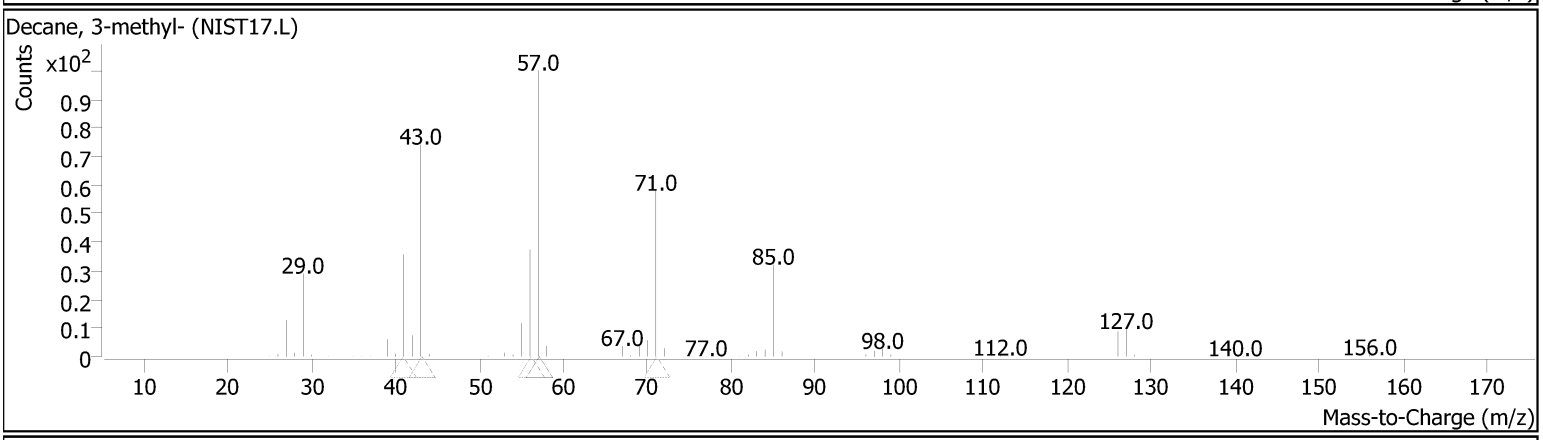



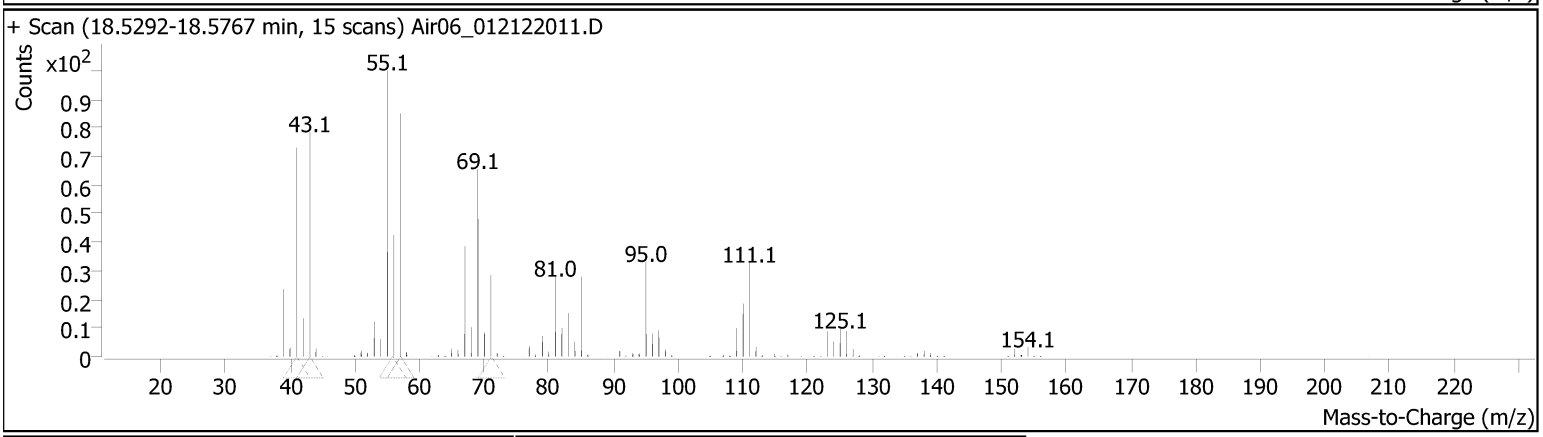



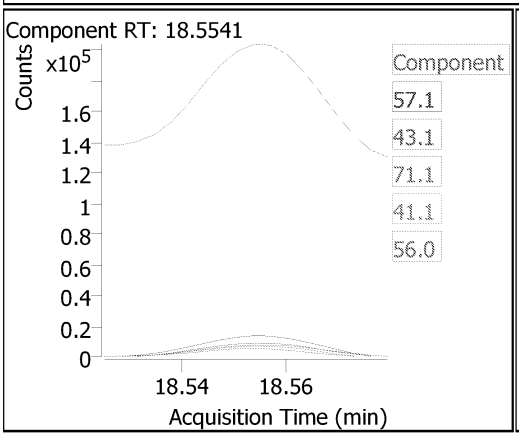



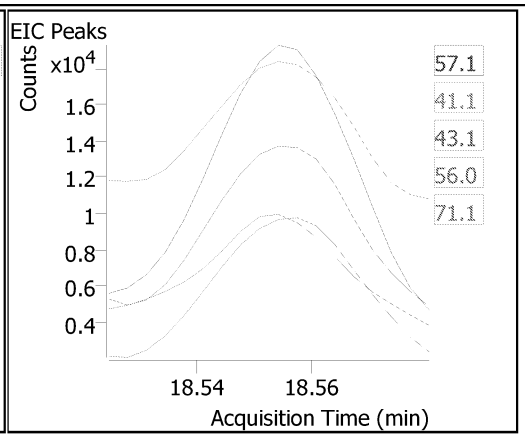
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.5541 | Decane, 3-methyl- | 301634.2 | 79.5 | 13151-34-3 | C11H24 | 0.629 |

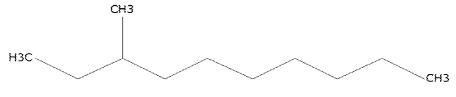


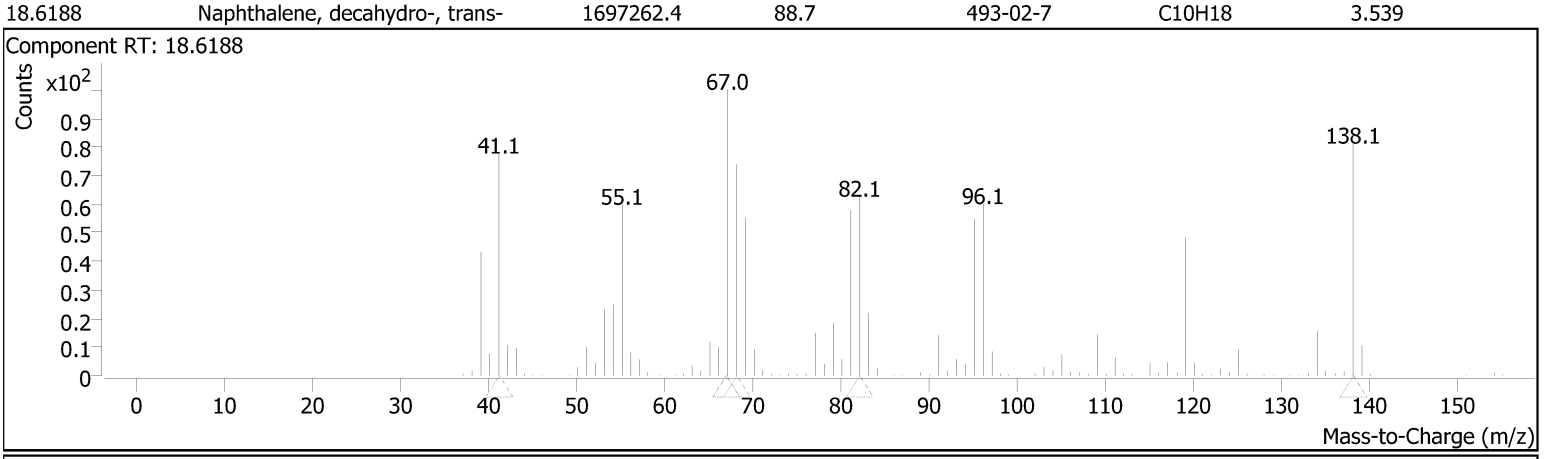



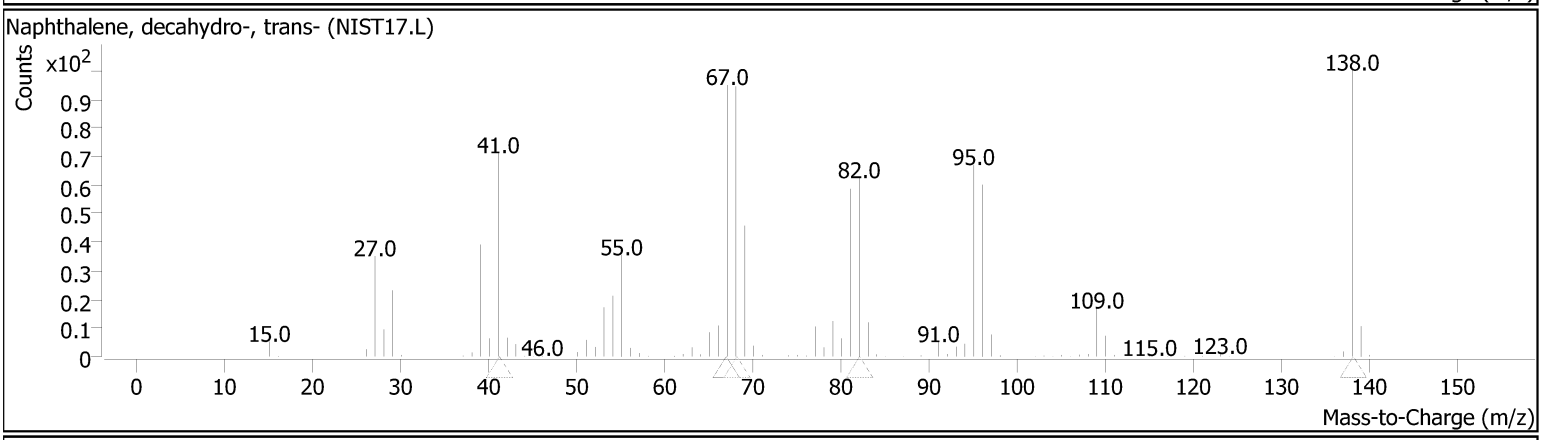



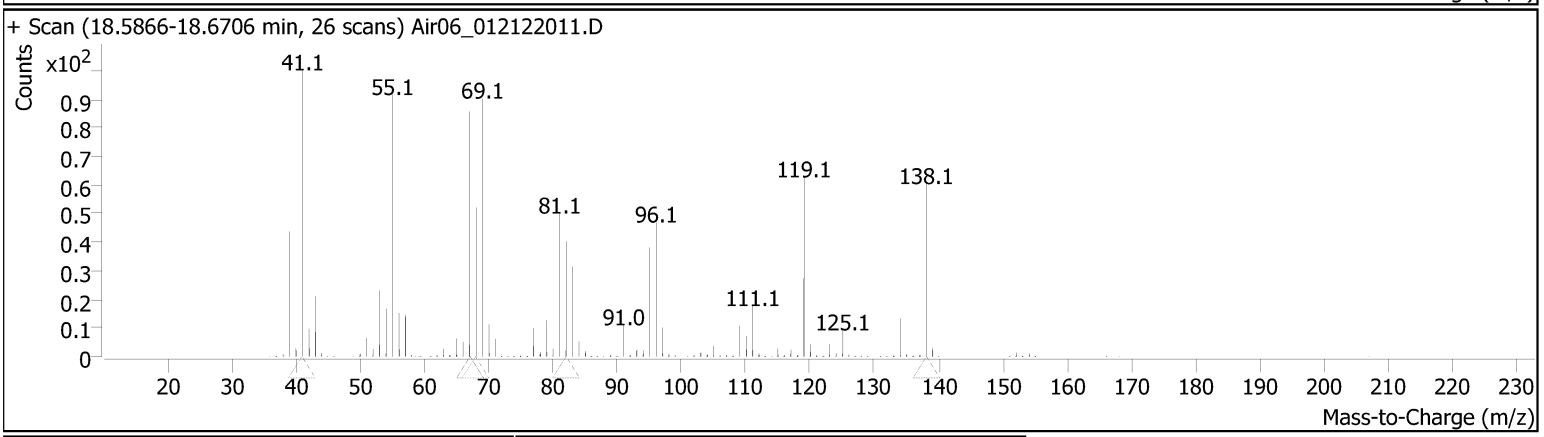
# Library Search Results - NonTarget Hits with Details

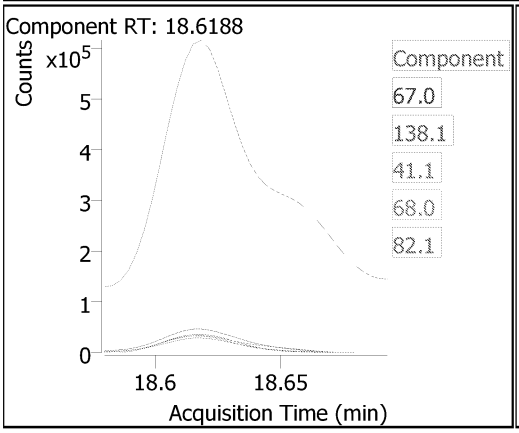
Agilent Technologies

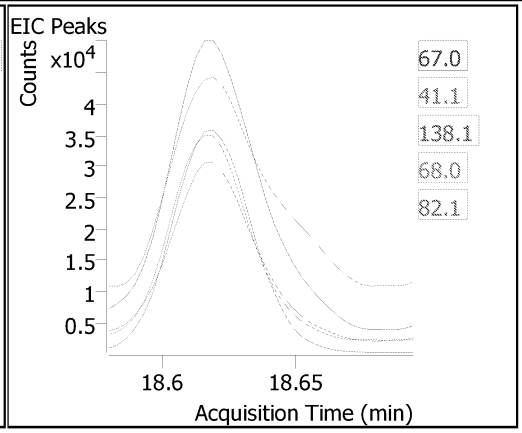
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.6188 | Naphthalene, decahydro-, trans- | 1697262.4 | 88.7 | 493-02-7 | C10H18 | 3.539 |

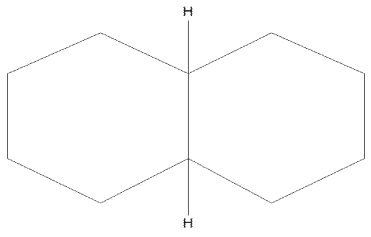


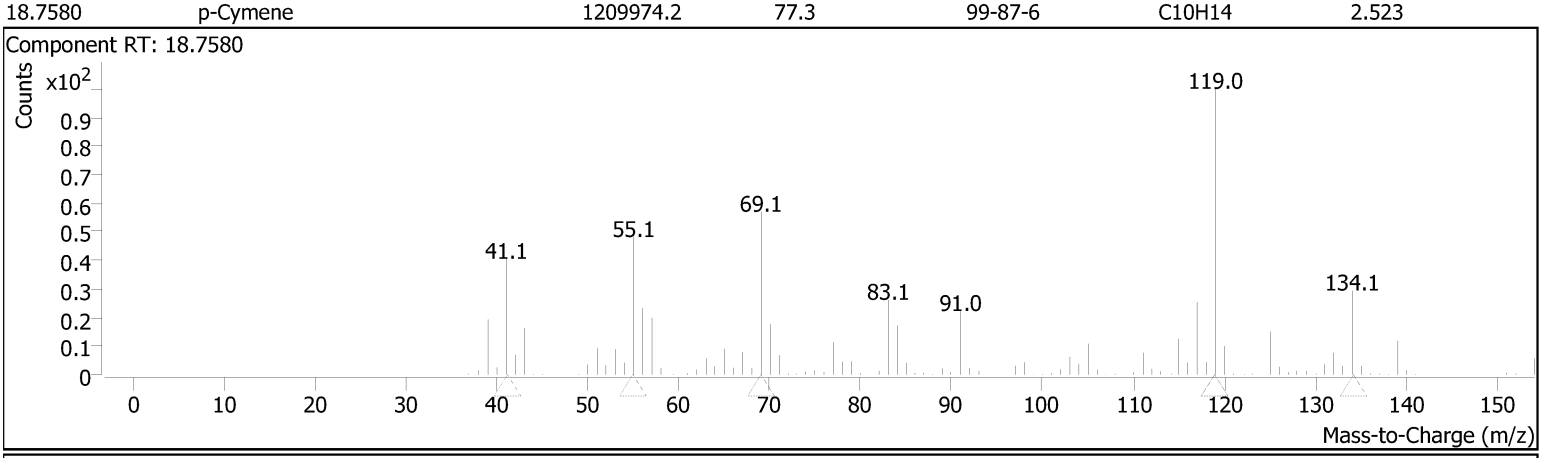



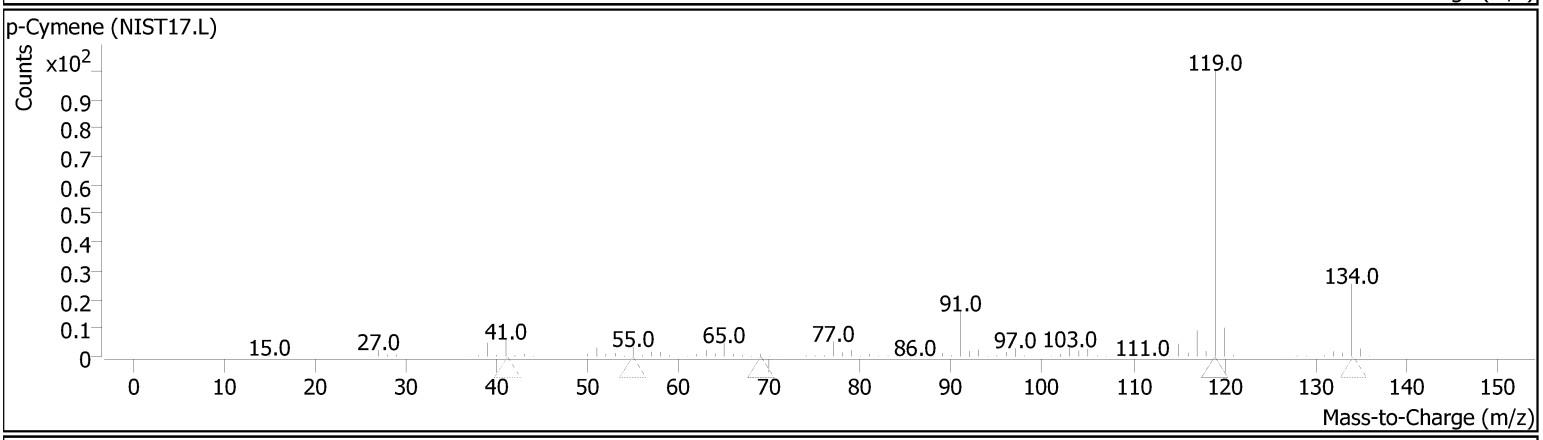



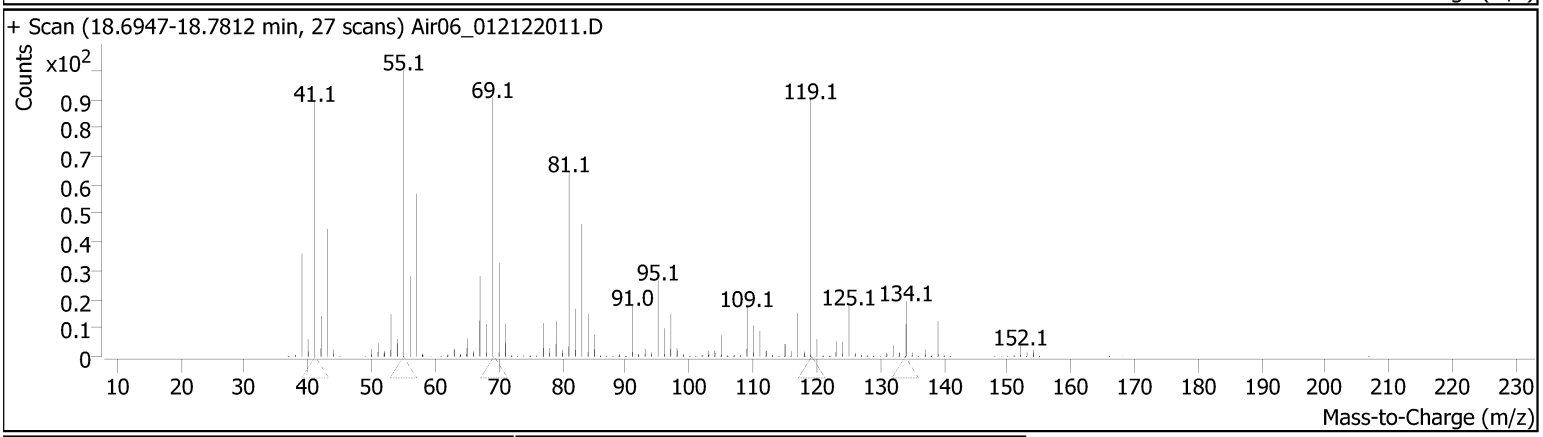



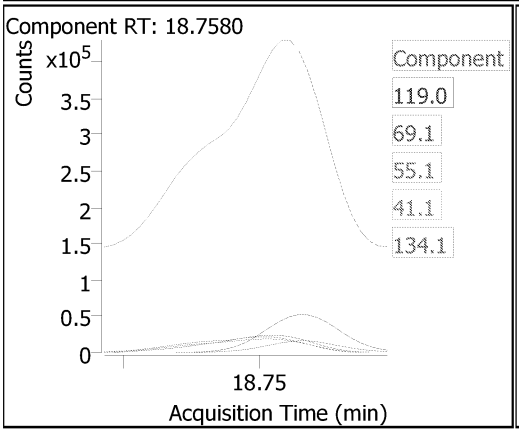



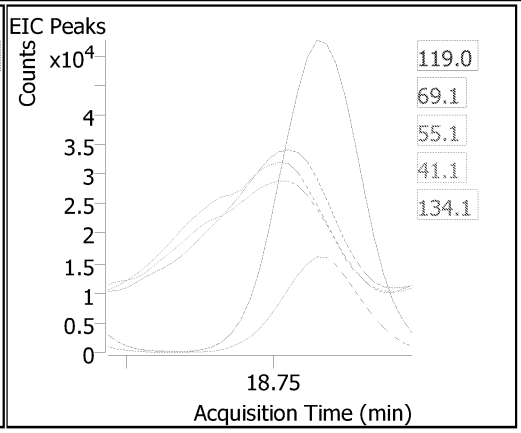
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.7580 | p-Cymene | 1209974.2 | 77.3 | 99-87-6 | C10H14 | 2.523 |

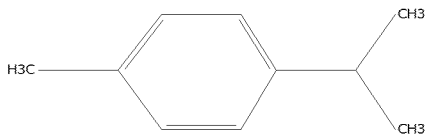


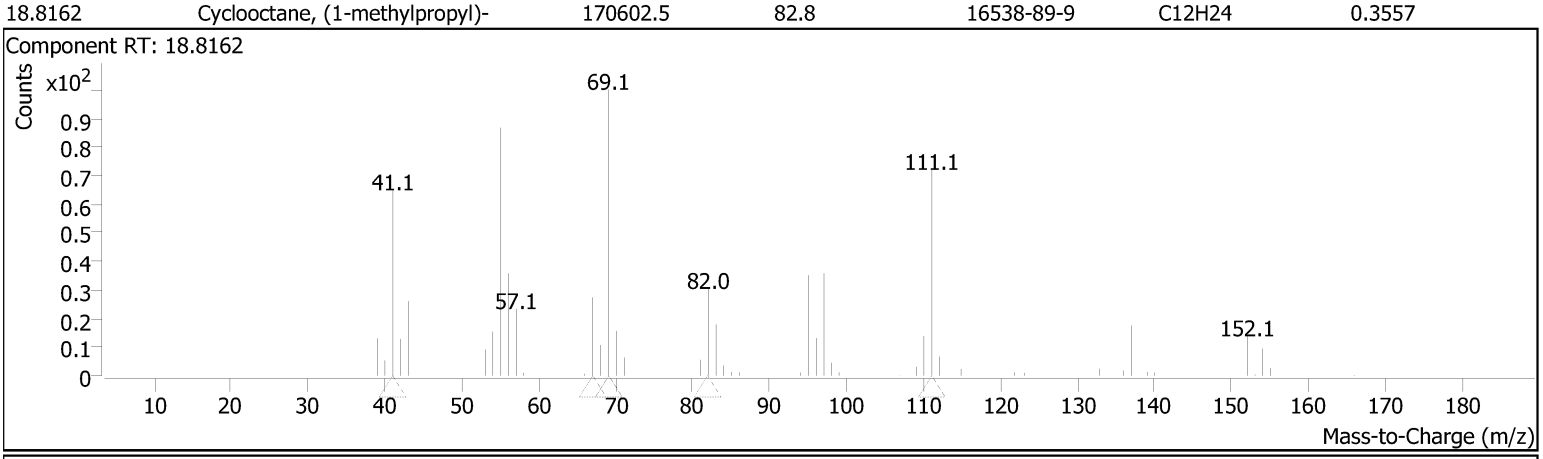



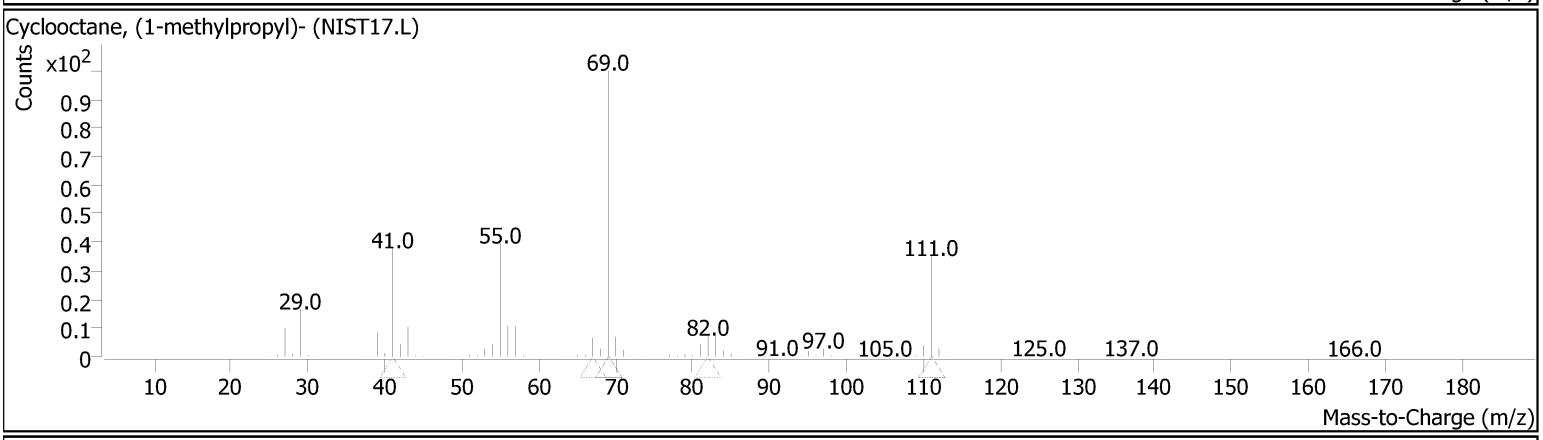



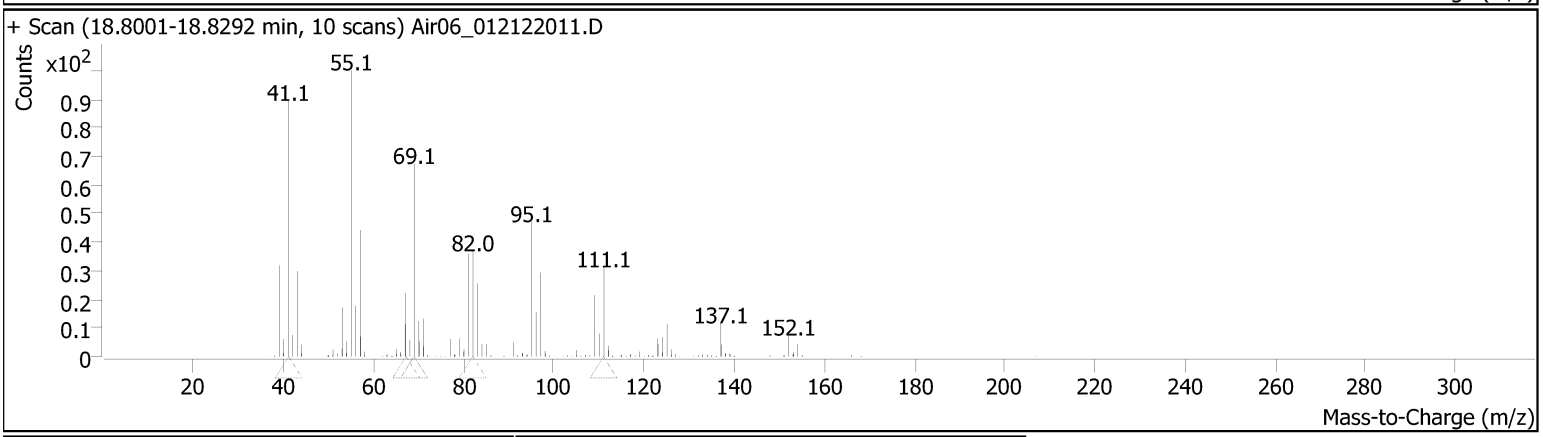
# Library Search Results - NonTarget Hits with Details

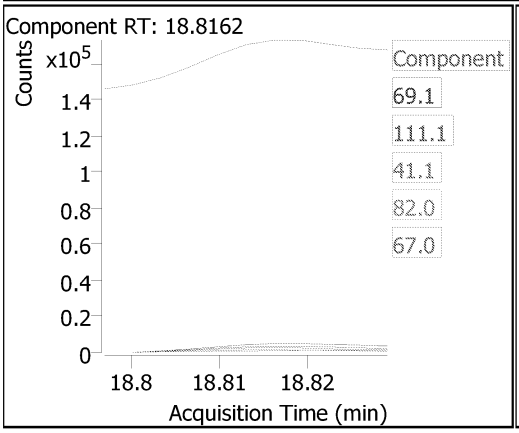
Agilent Technologies

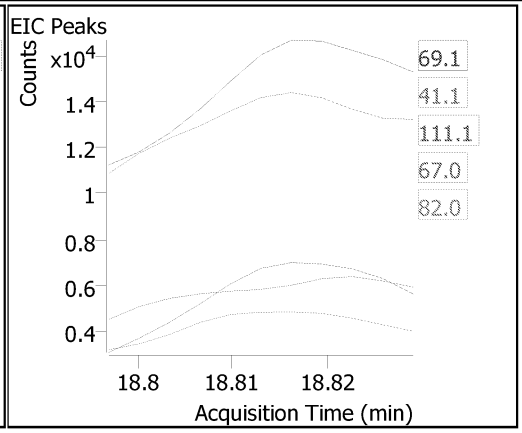
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.8162 | Cyclooctane, (1-methylpropyl)- | 170602.5 | 82.8 | 16538-89-9 | C12H24 | 0.3557 |

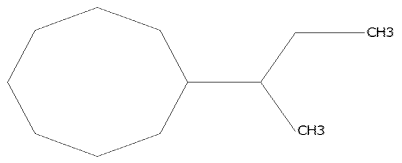


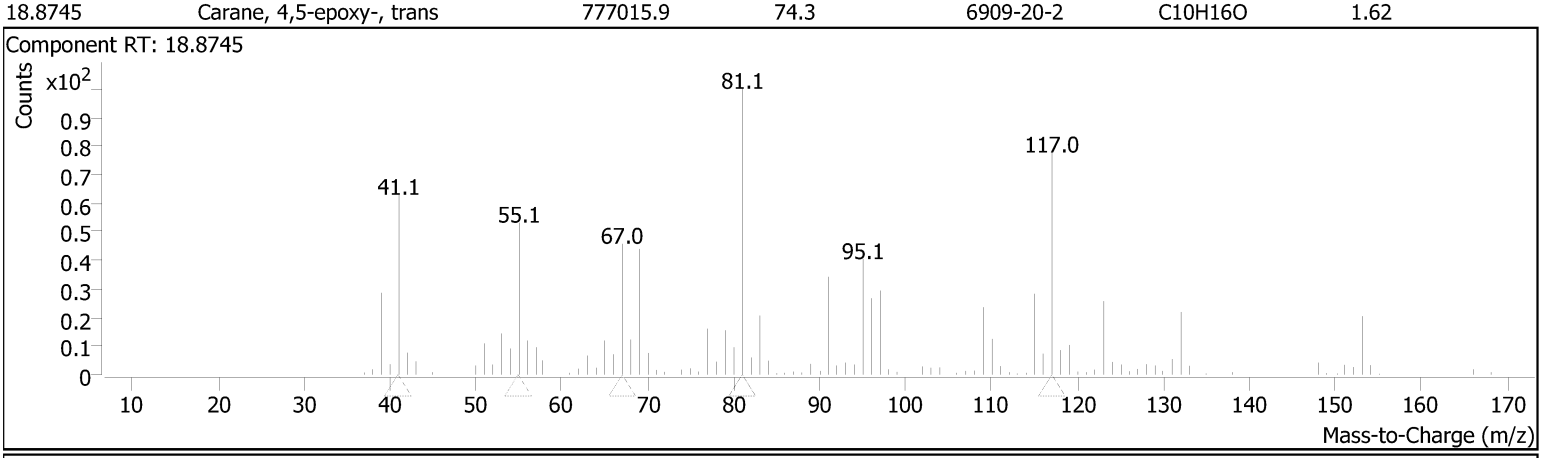



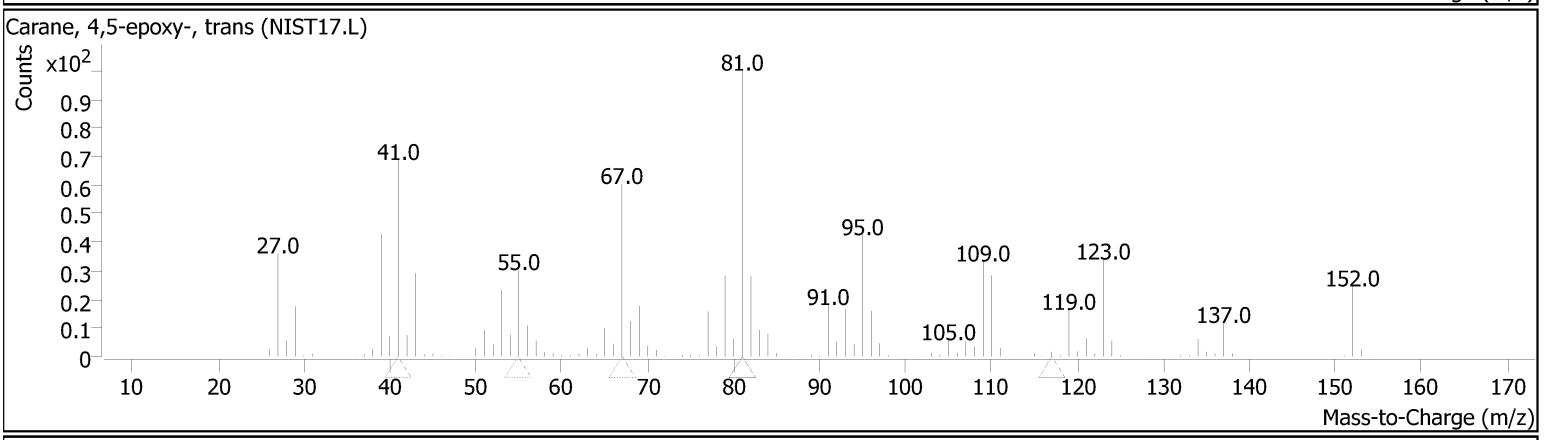



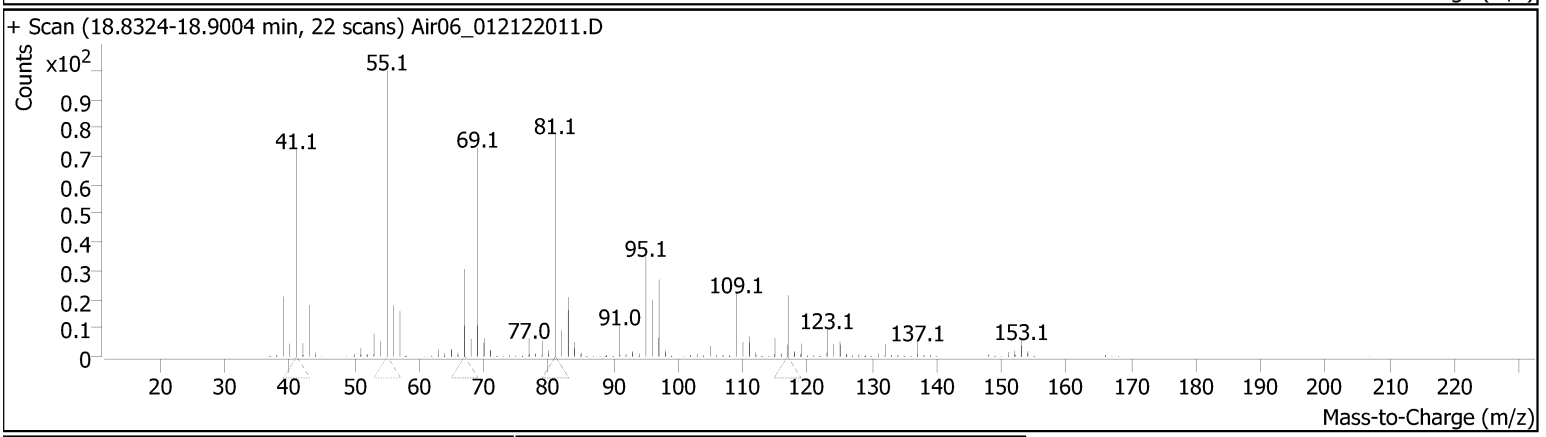



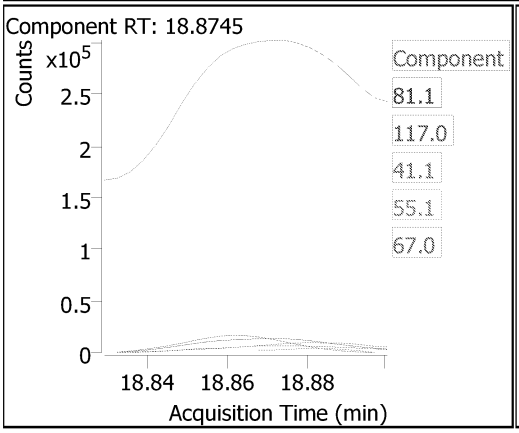



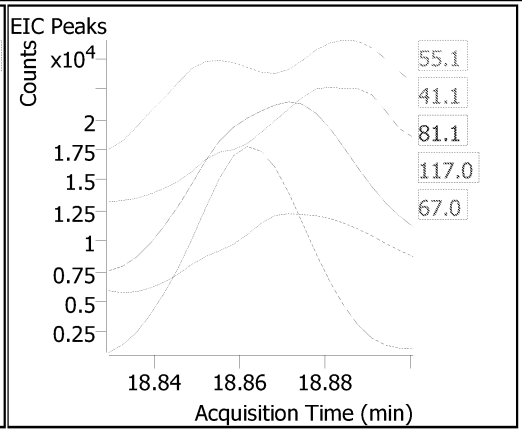
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.8745 | Carane, 4,5-epoxy-, trans | 777015.9 | 74.3 | 6909-20-2 | C10H16O | 1.62 |

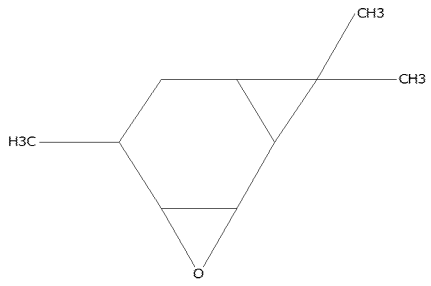


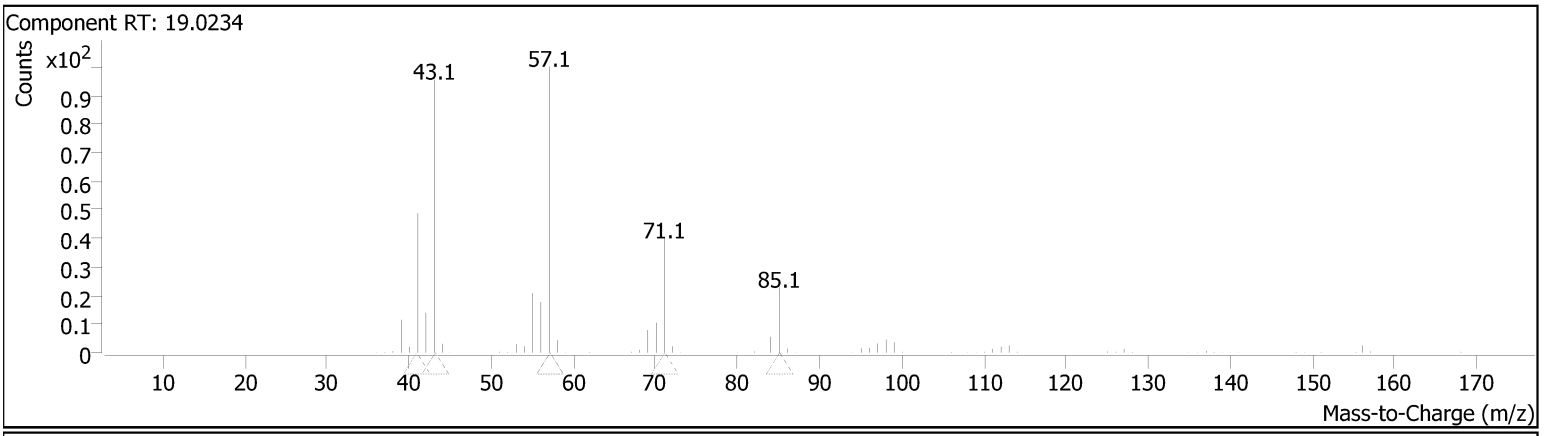



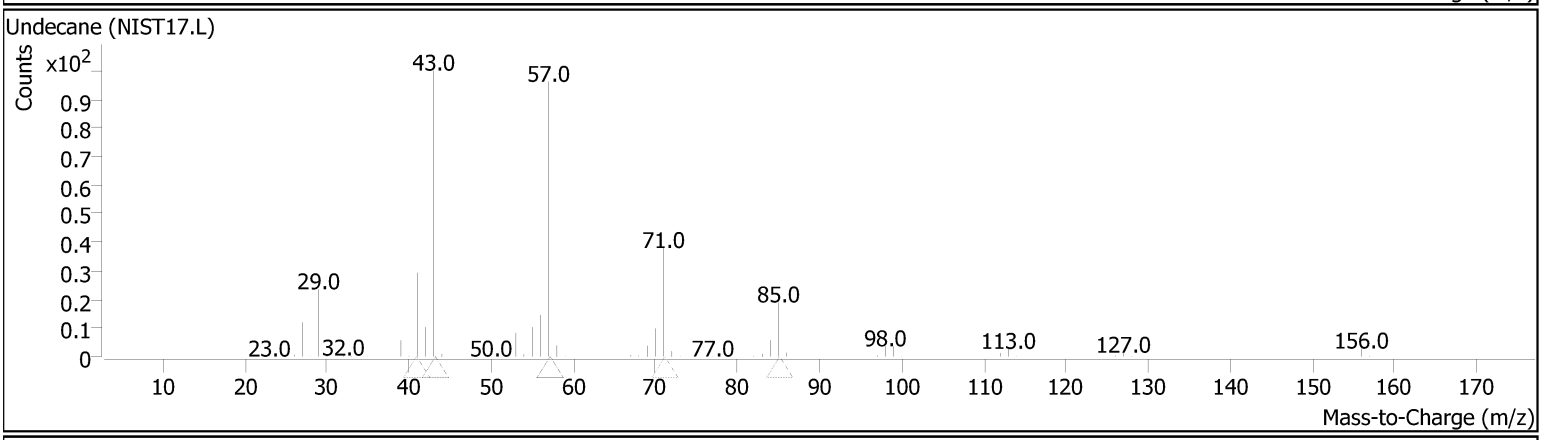



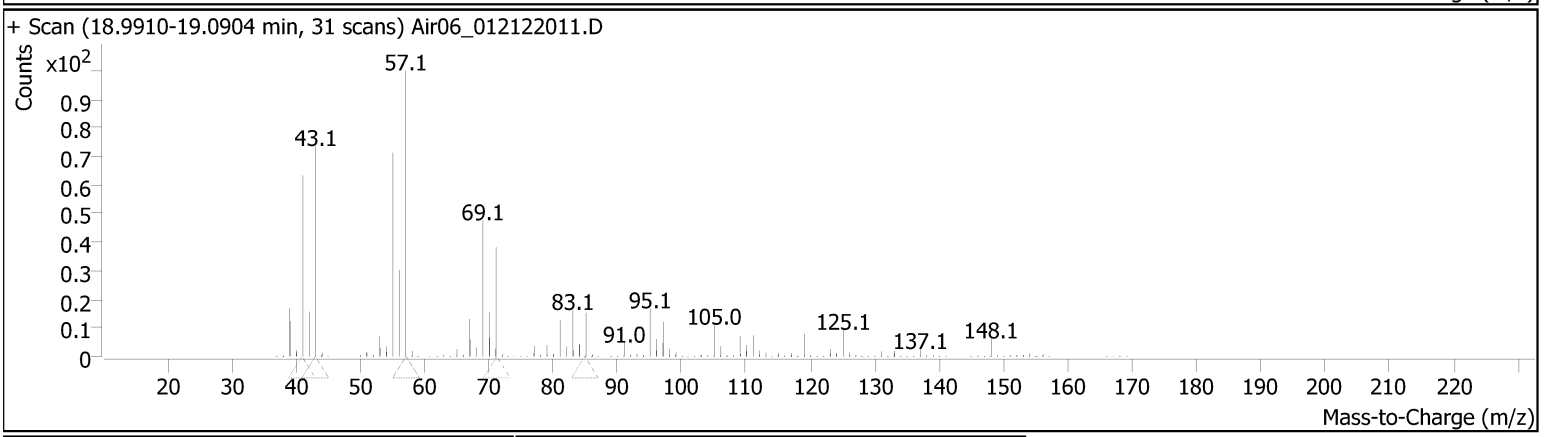
# Library Search Results - NonTarget Hits with Details

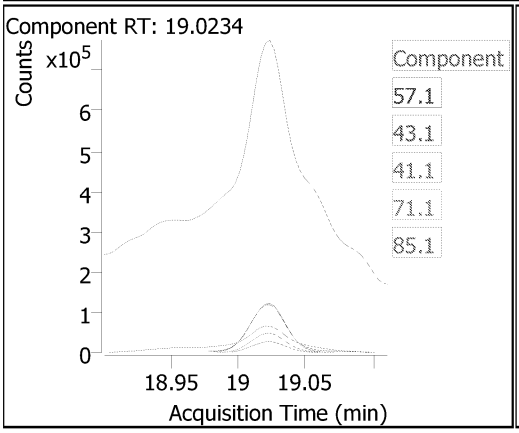
Agilent Technologies

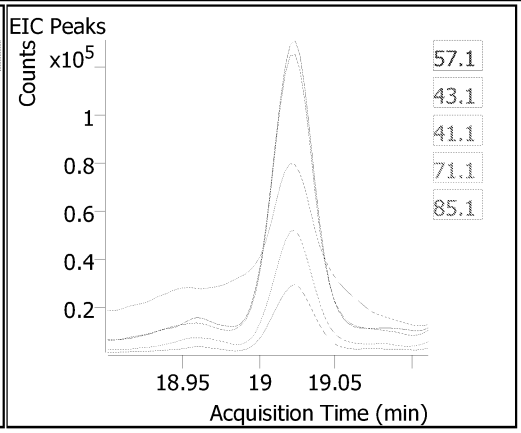
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.0234 | Undecane | 3821581.8 | 95.2 | 1120-21-4 | C11H24 | 7.969 |



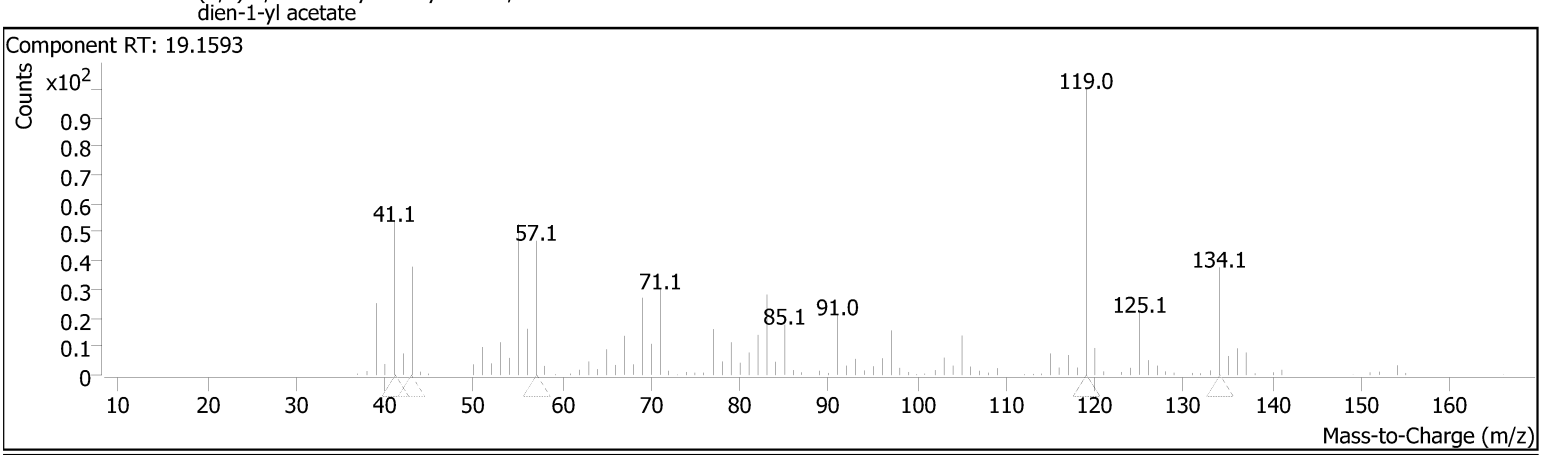



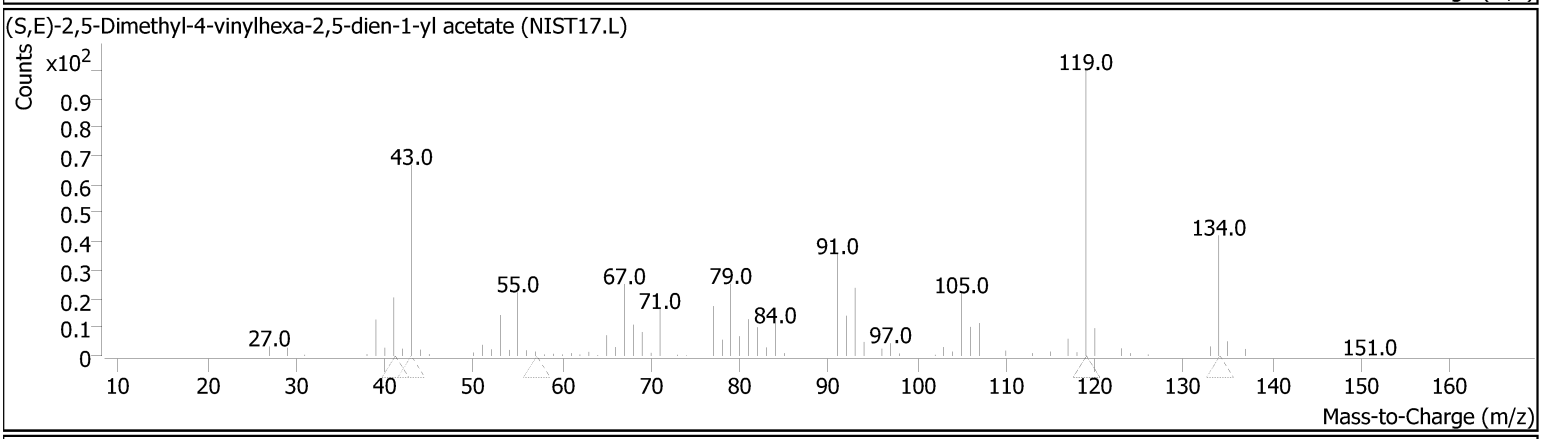



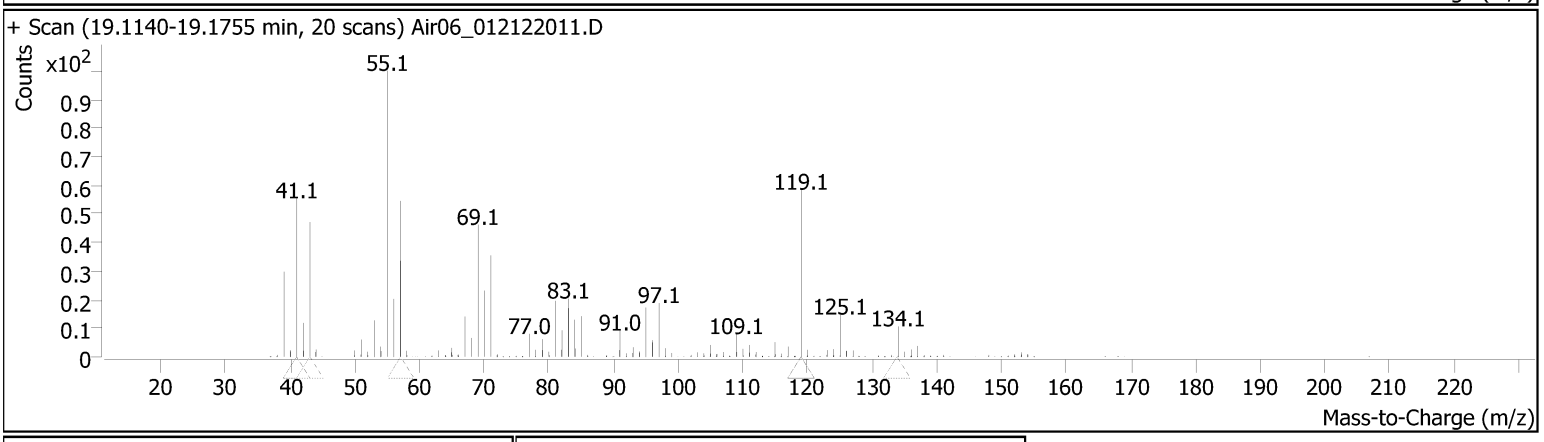



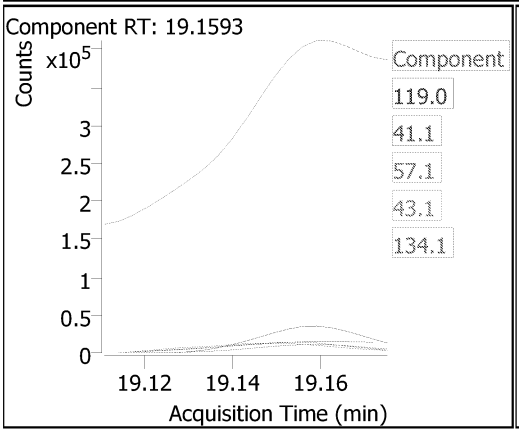


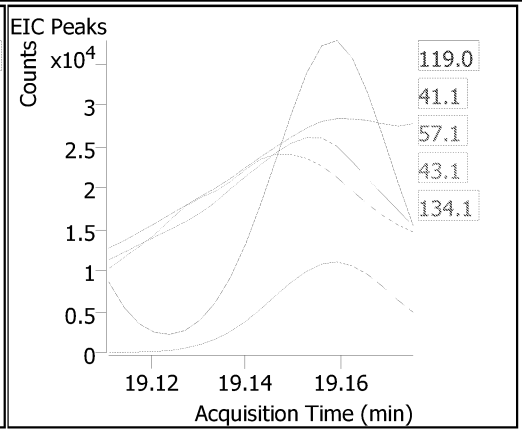

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.1593 | (S,E)-2,5-Dimethyl-4-vinylhexa-2,5-dien-1-yl acetate | 885471.6 | 79.3 | 20384-05-8 | C12H18O2 | 1.846 |

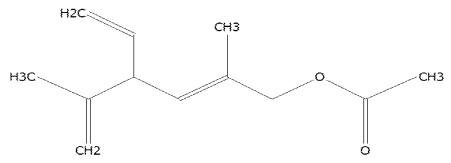


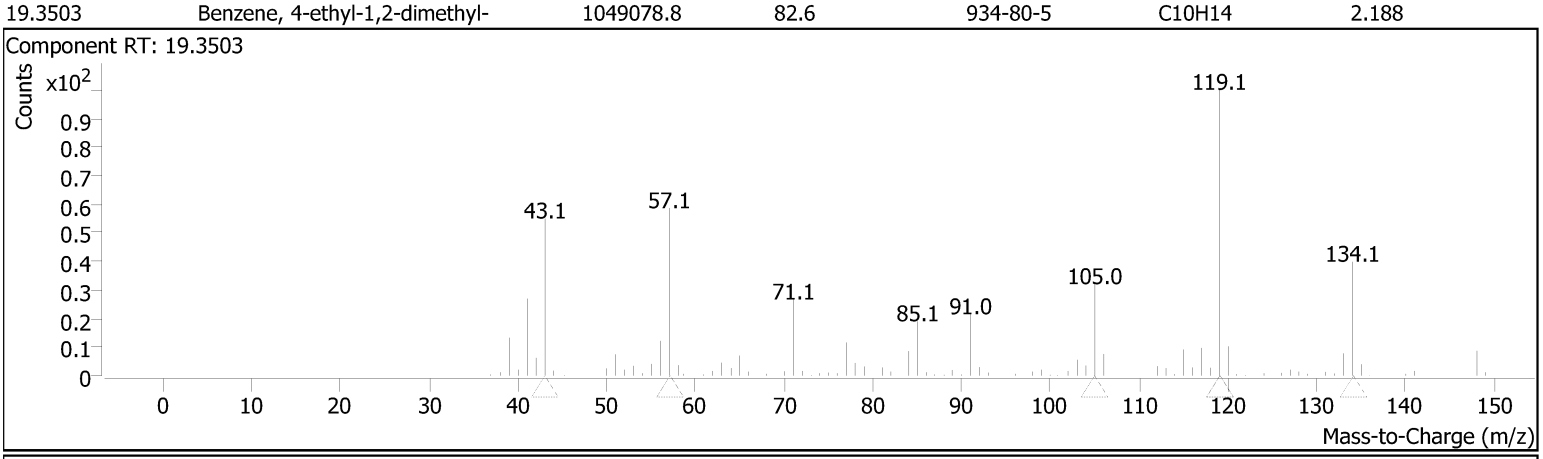



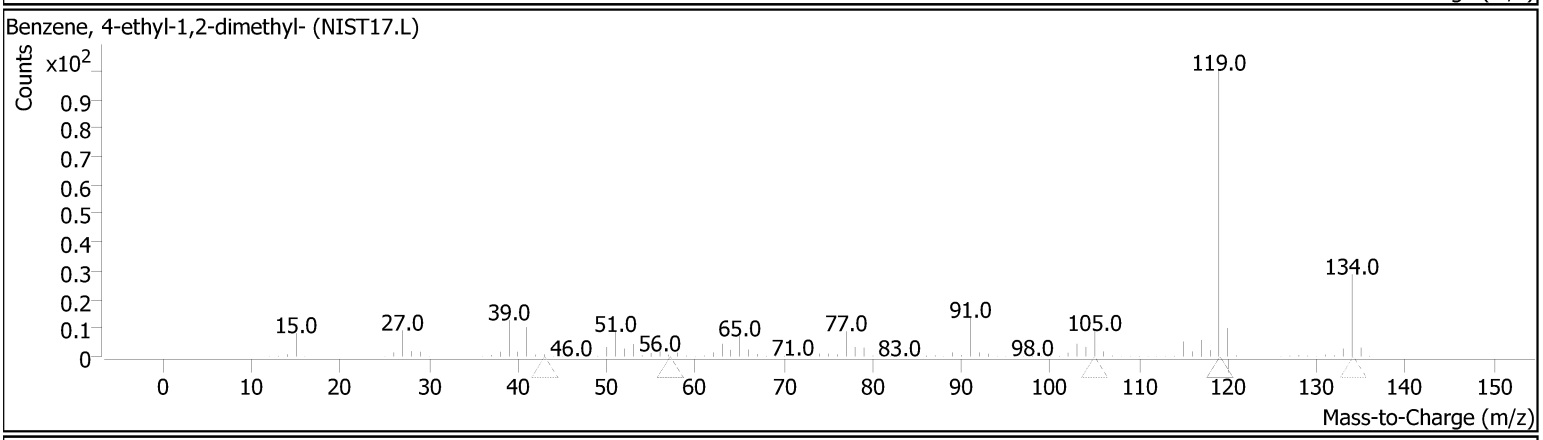



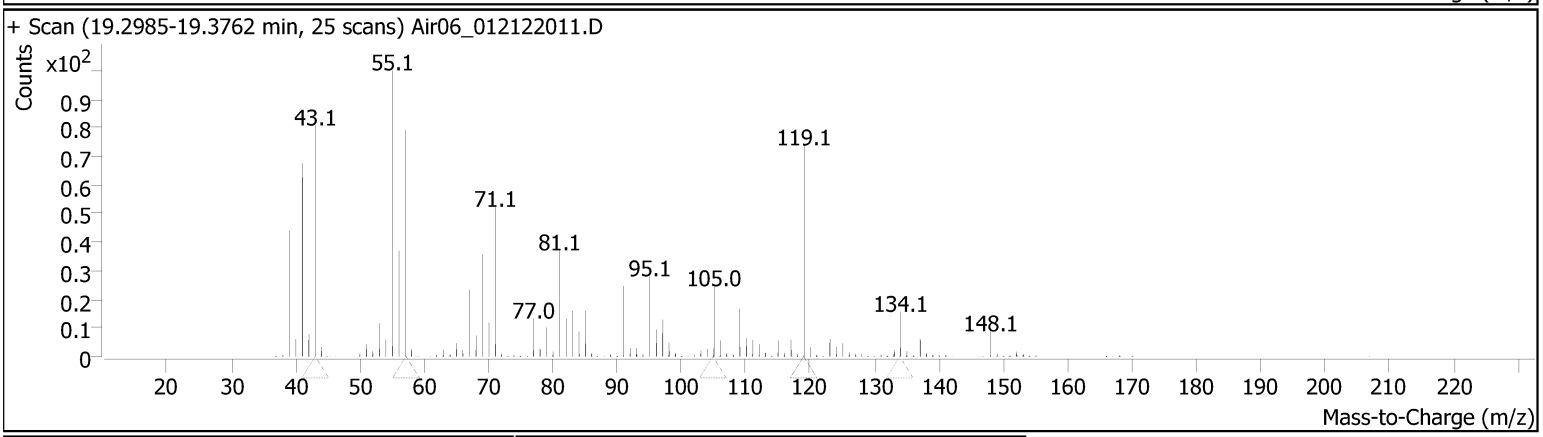



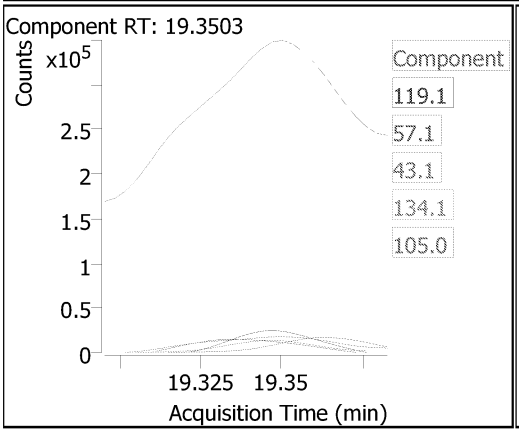



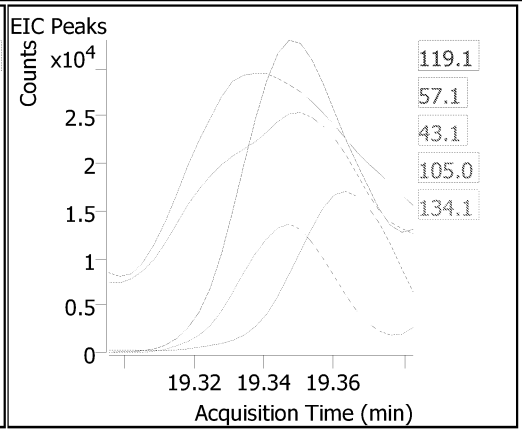
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.3503 | Benzene, 4-ethyl-1,2-dimethyl- | 1049078.8 | 82.6 | 934-80-5 | C10H14 | 2.188 |

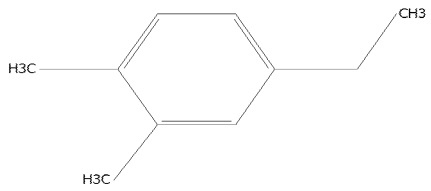


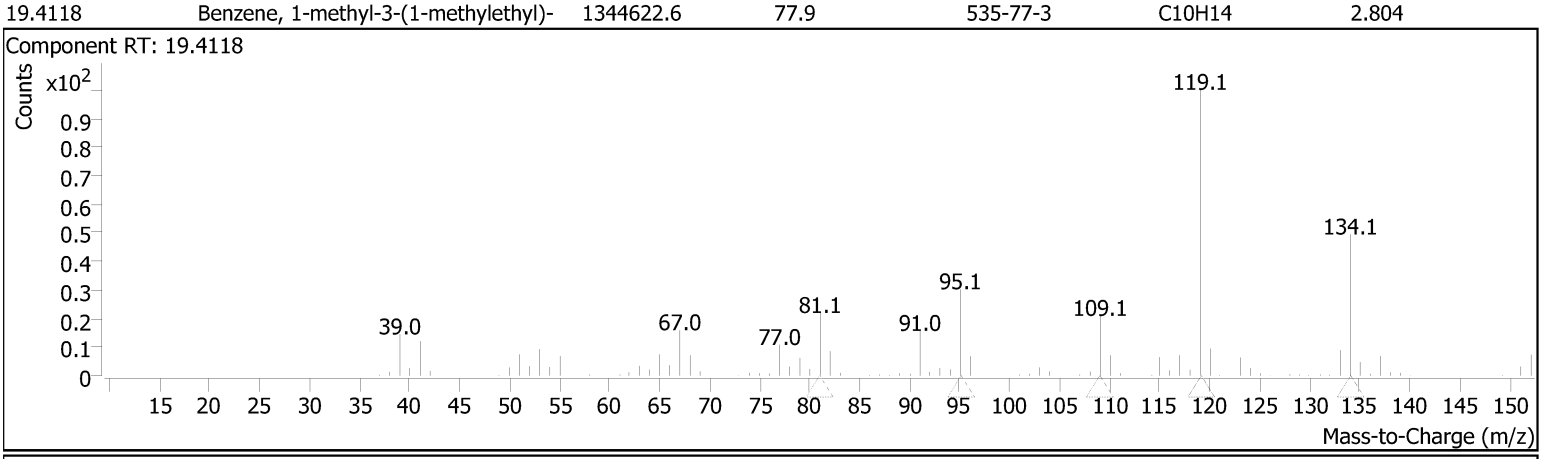



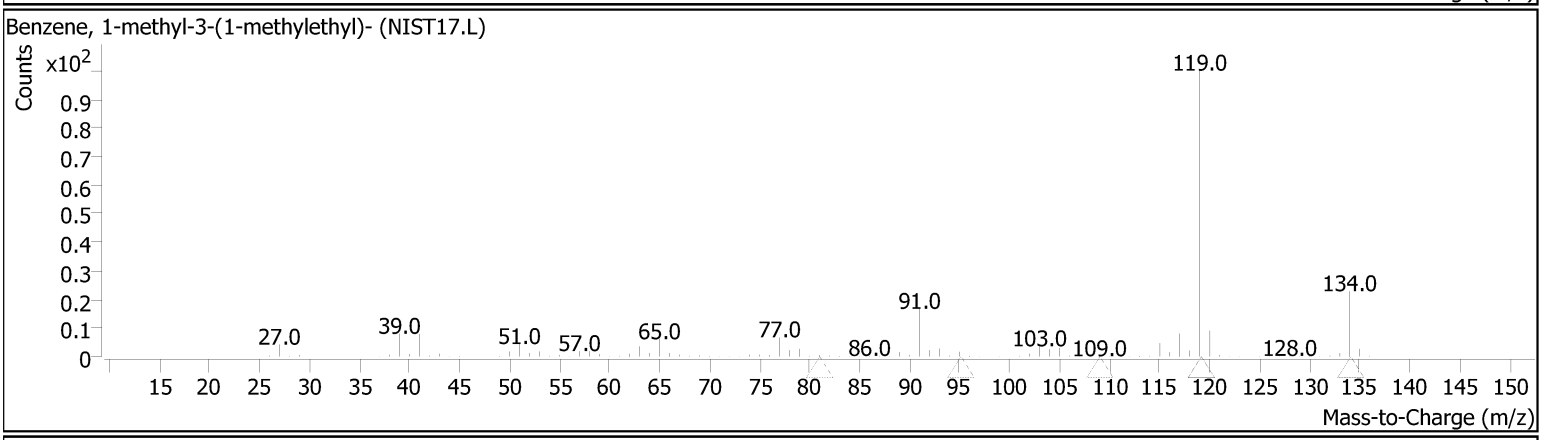



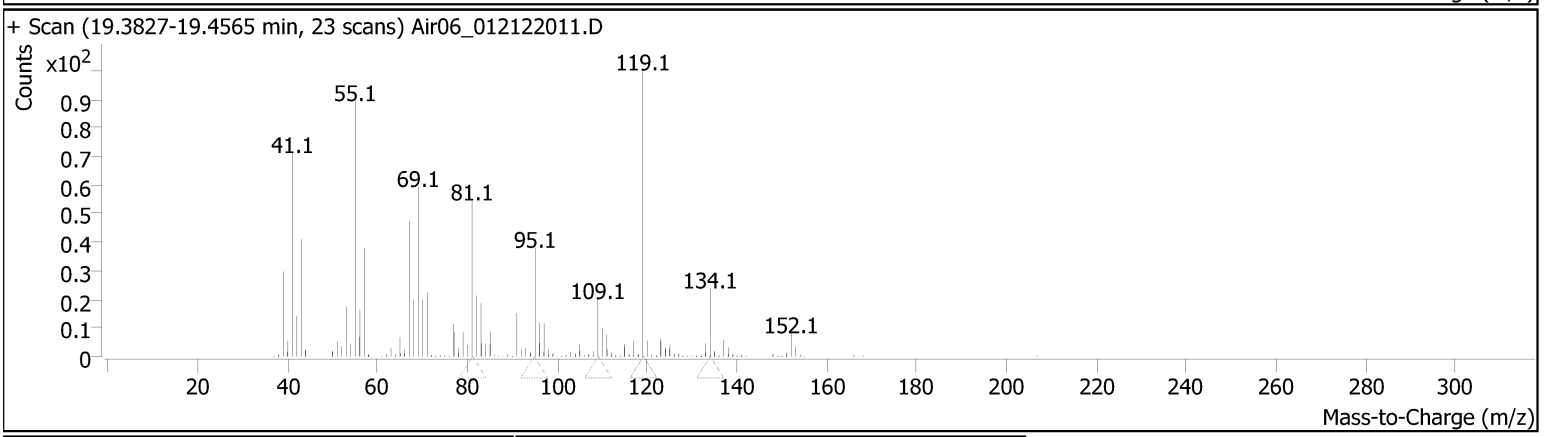



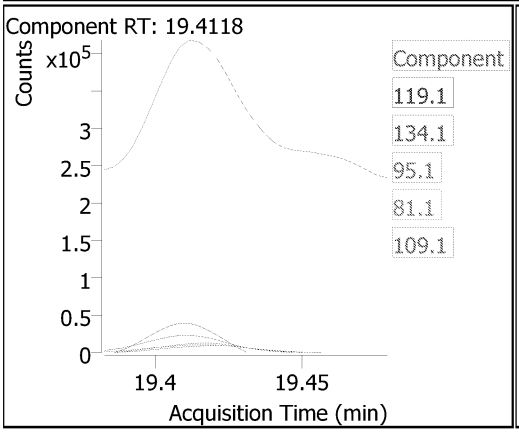



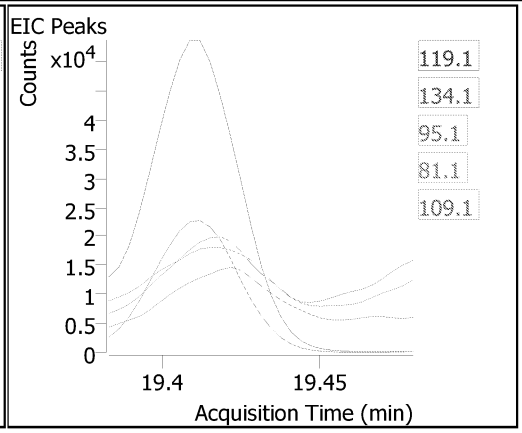
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.4118 | Benzene, 1-methyl-3-(1-methylethyl)- | 1344622.6 | 77.9 | 535-77-3 | C10H14 | 2.804 |

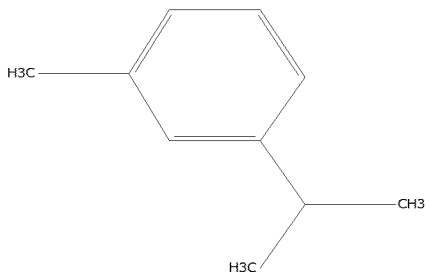


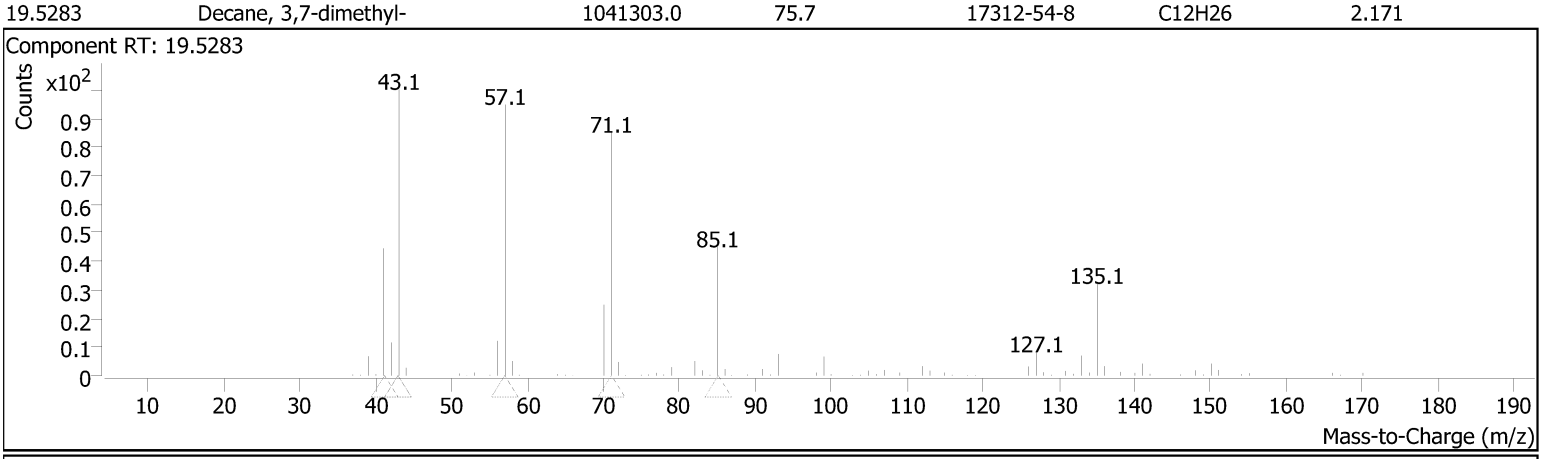



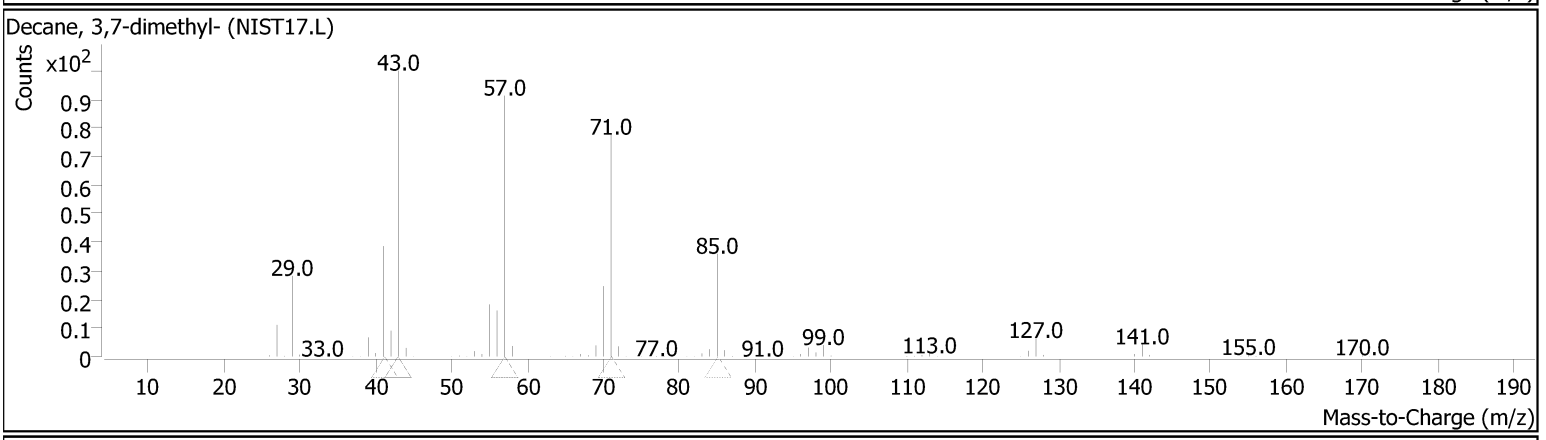



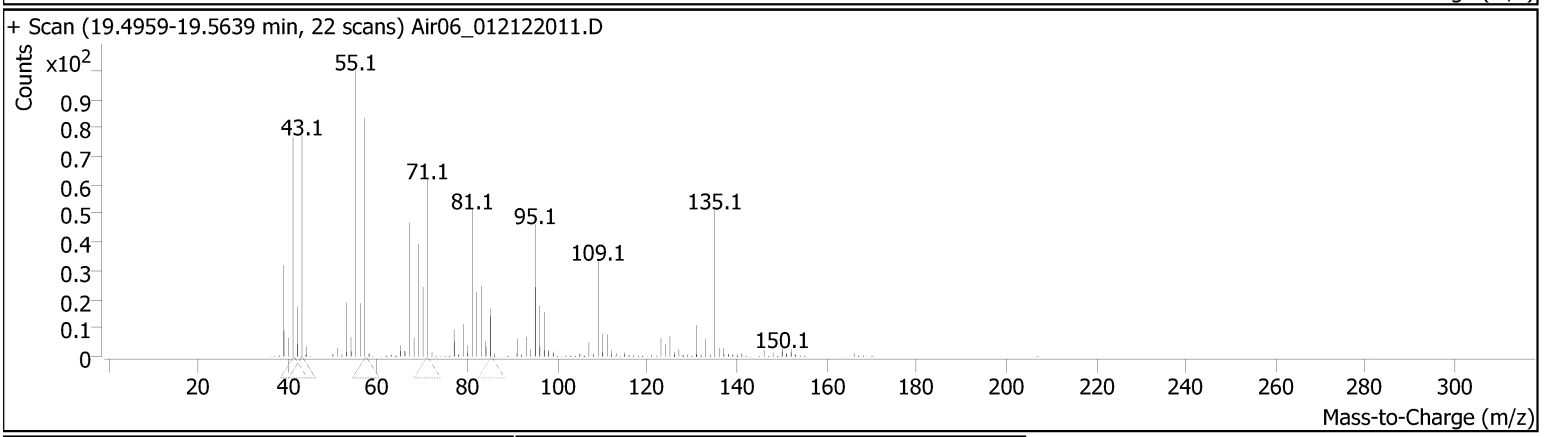



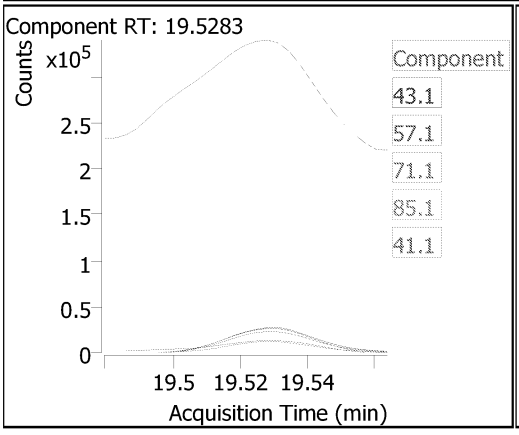



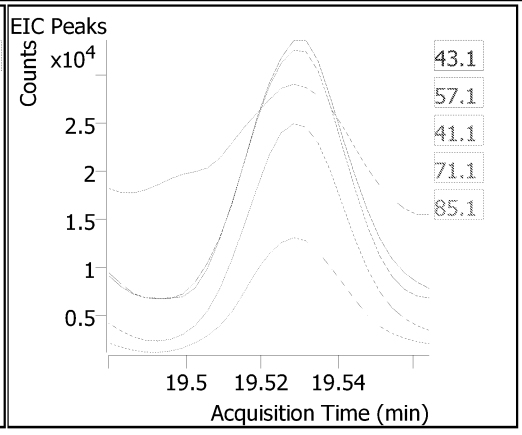
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5283 | Decane, 3,7-dimethyl- | 1041303.0 | 75.7 | 17312-54-8 | C12H26 | 2.171 |

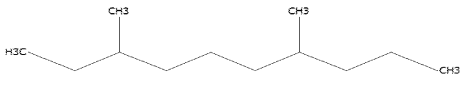


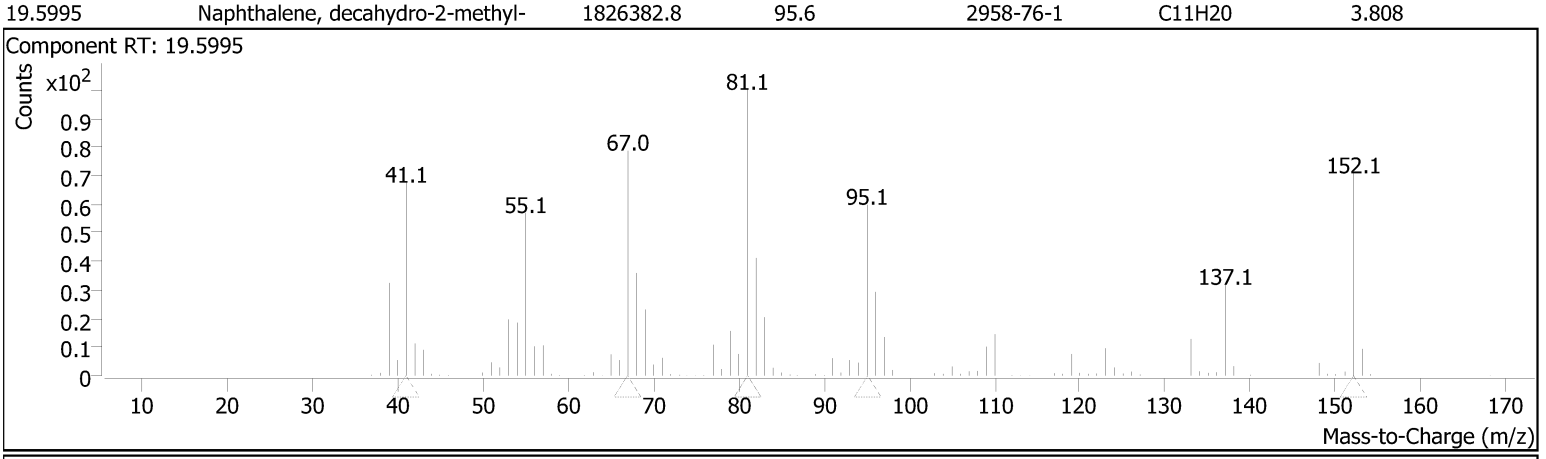



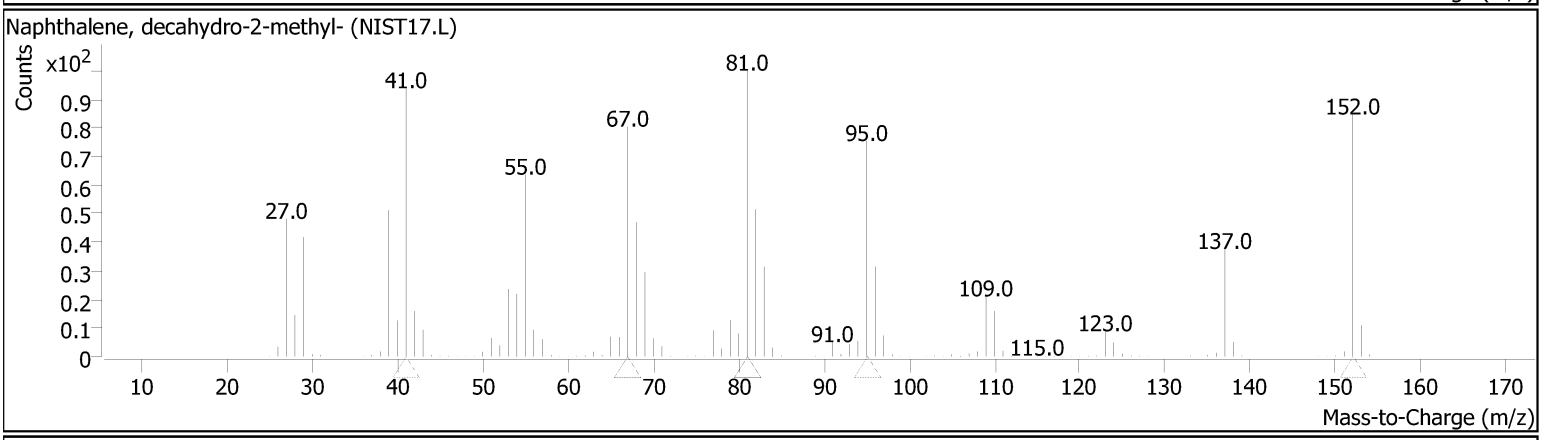



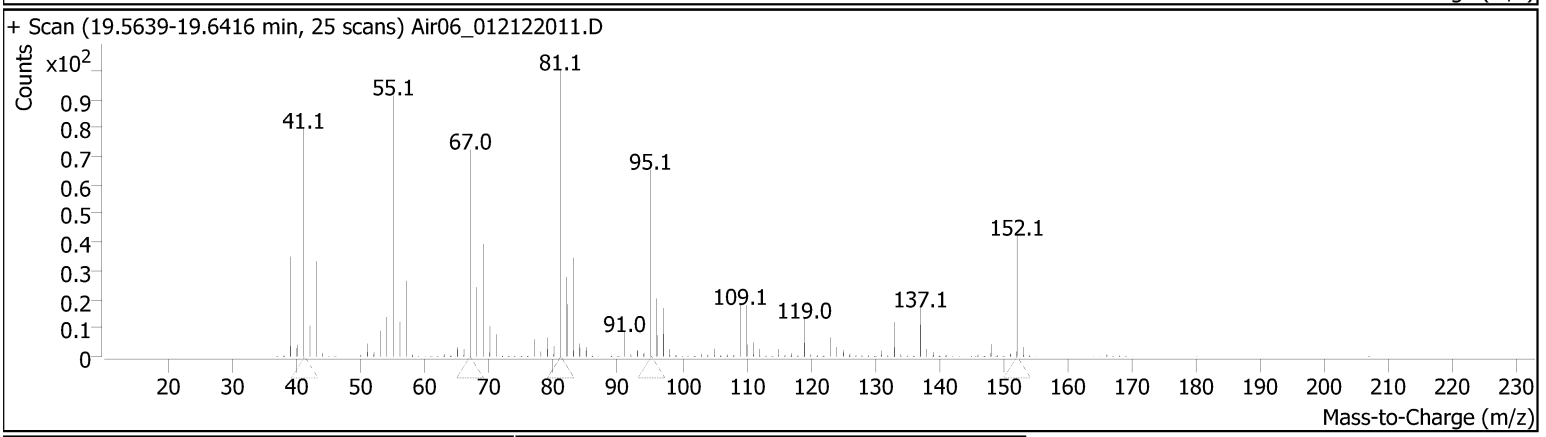
# Library Search Results - NonTarget Hits with Details

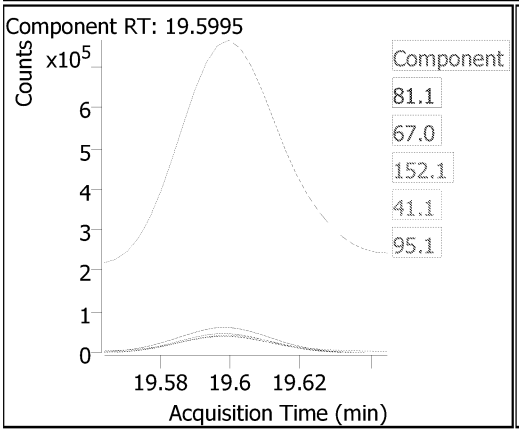
Agilent Technologies

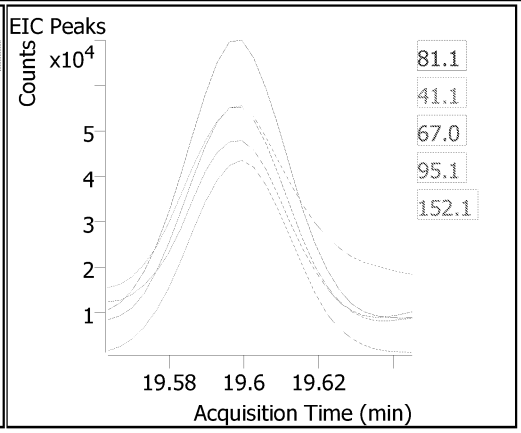
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5995 | Naphthalene, decahydro-2-methyl- | 1826382.8 | 95.6 | 2958-76-1 | C11H20 | 3.808 |

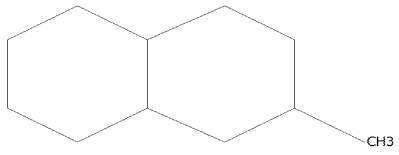


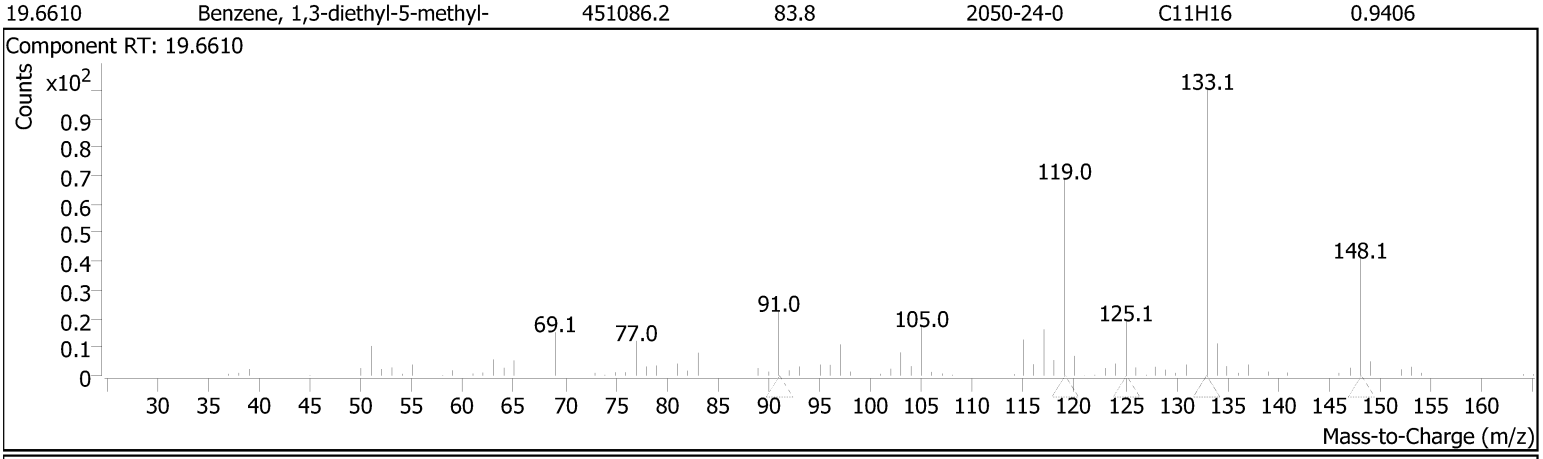



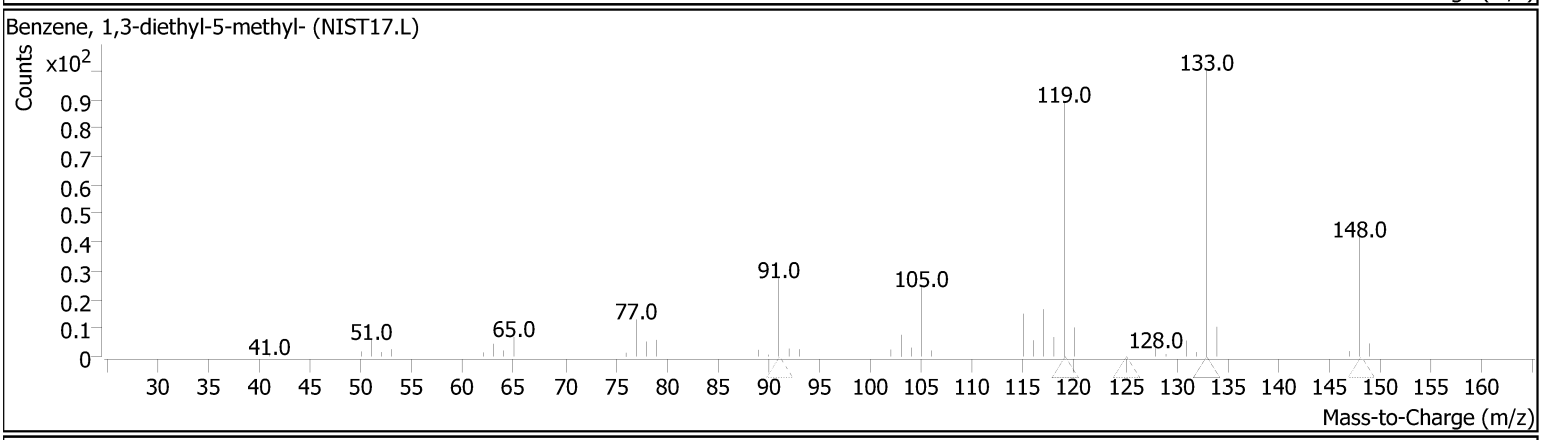



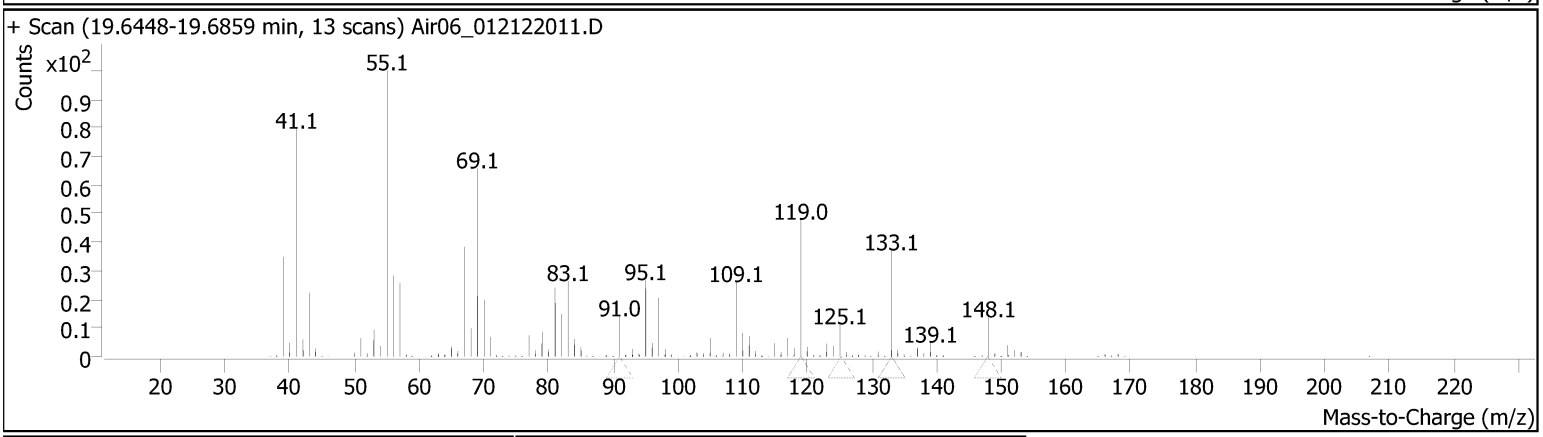



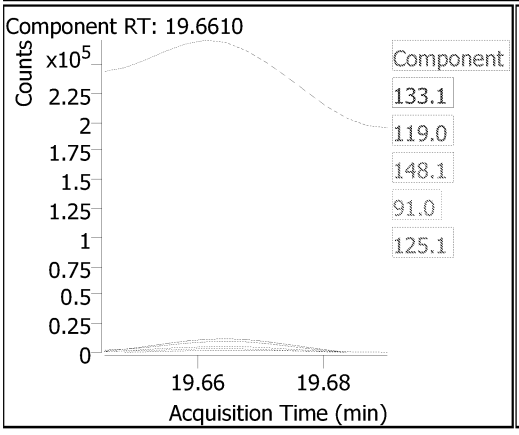



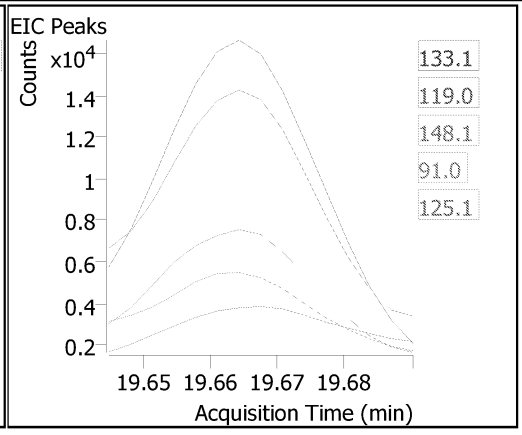
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.6610 | Benzene, 1,3-diethyl-5-methyl- | 451086.2 | 83.8 | 2050-24-0 | C11H16 | 0.9406 |

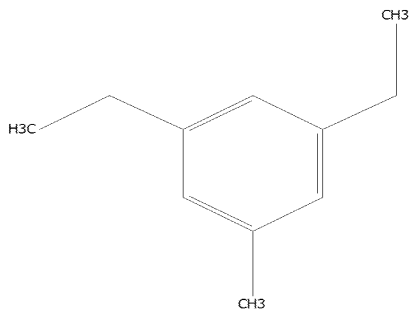


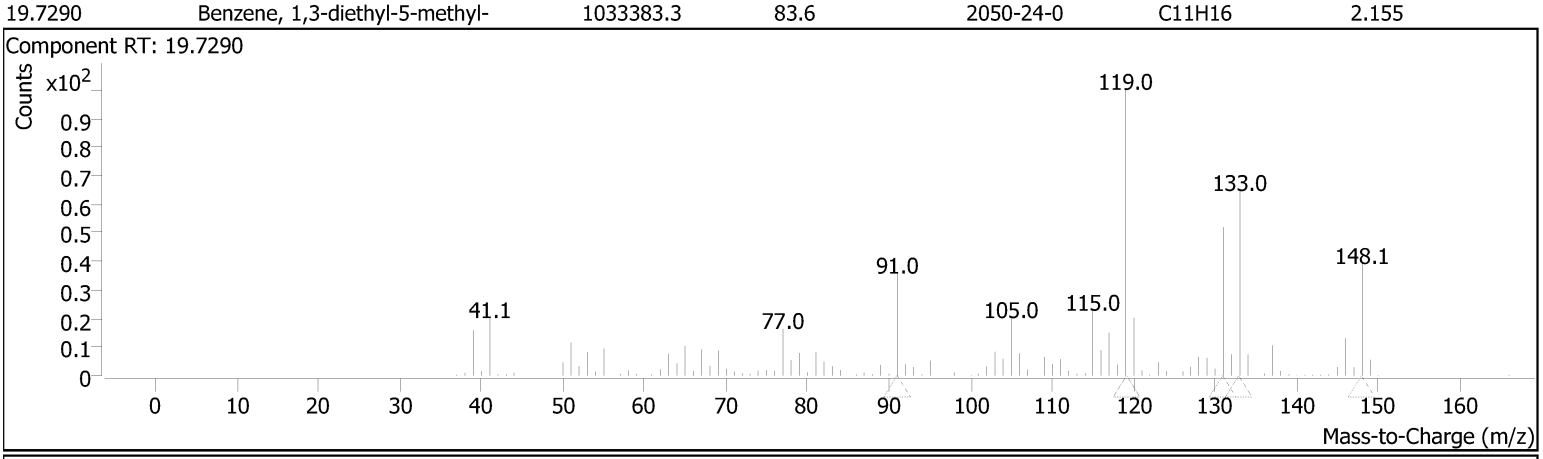



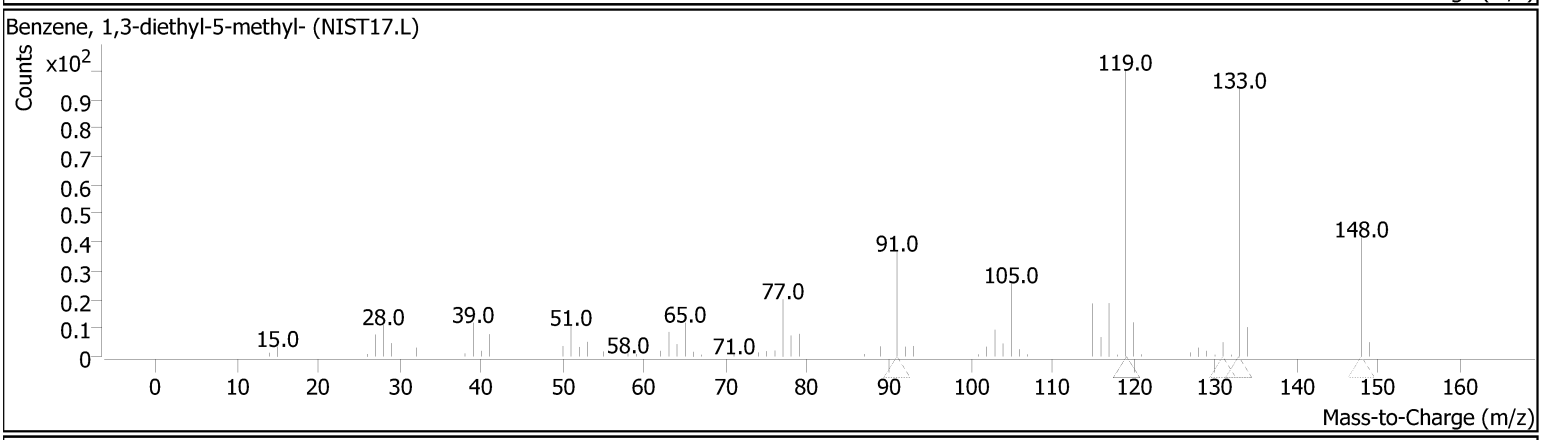



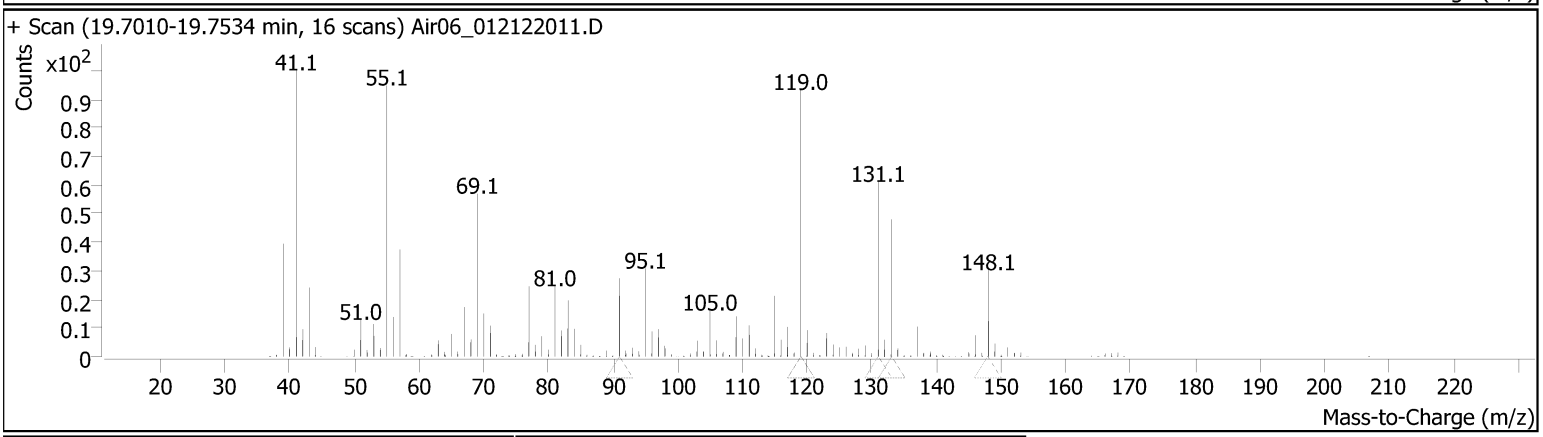



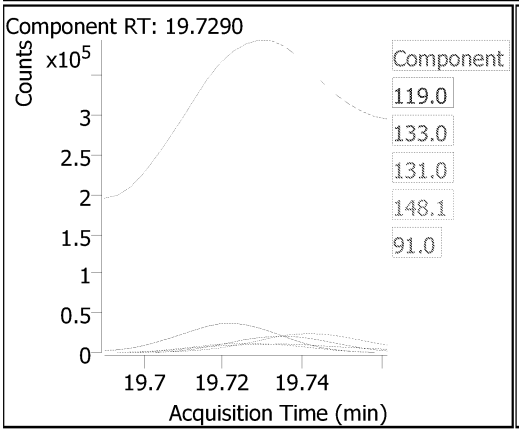



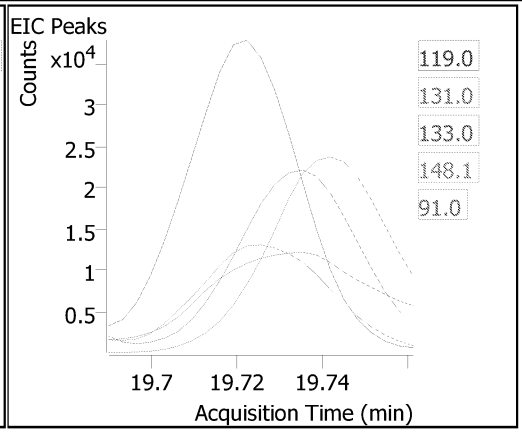
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.7290 | Benzene, 1,3-diethyl-5-methyl- | 1033383.3 | 83.6 | 2050-24-0 | C11H16 | 2.155 |

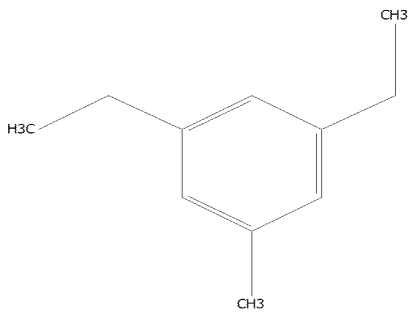


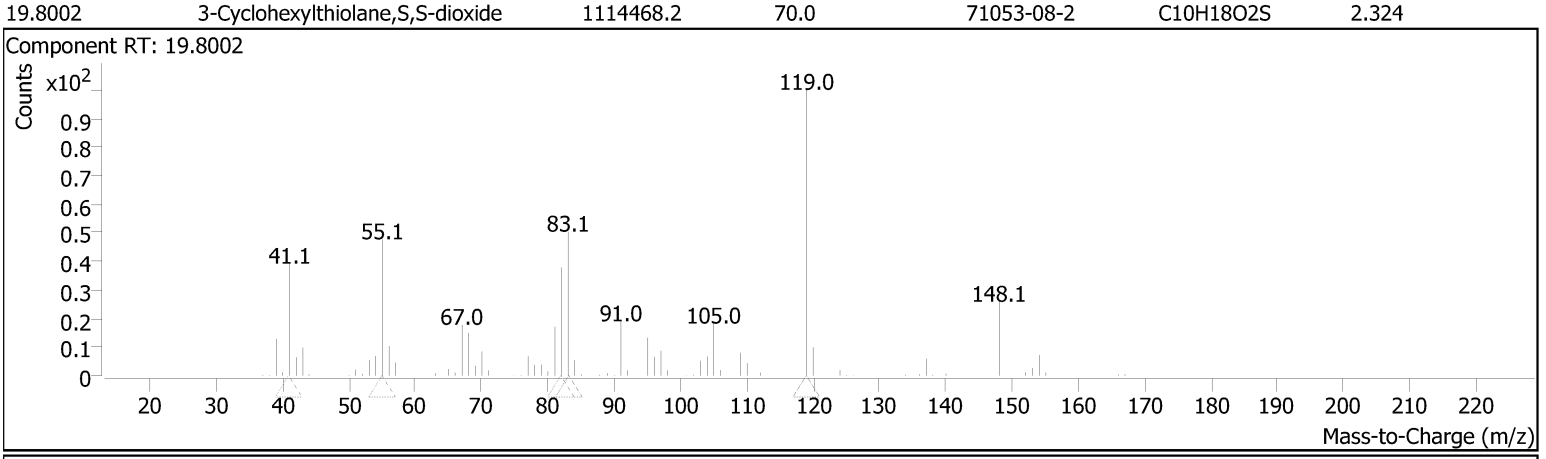



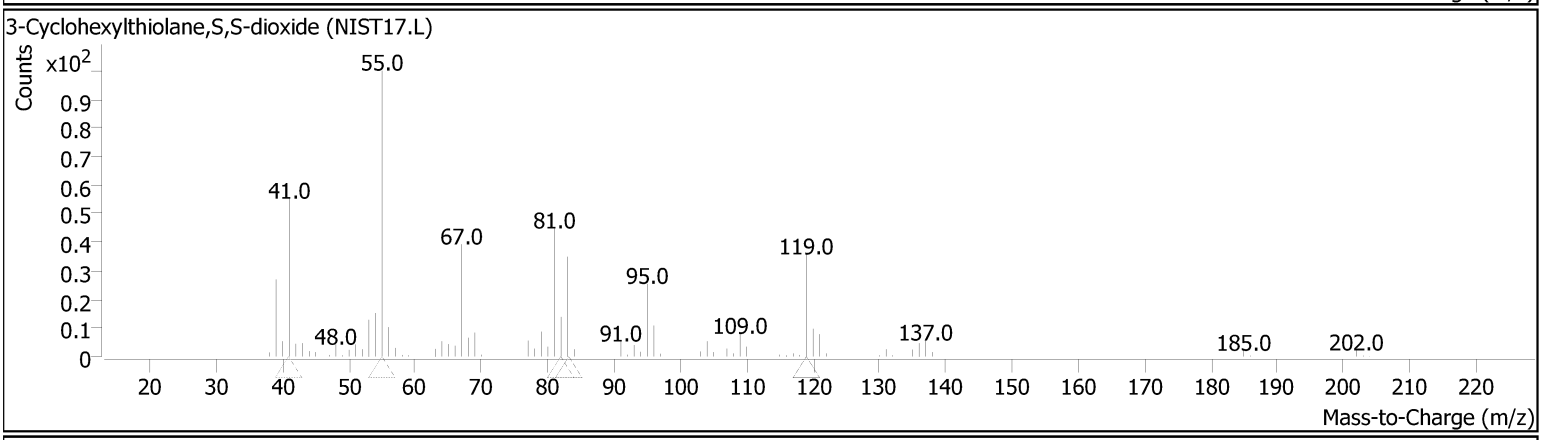



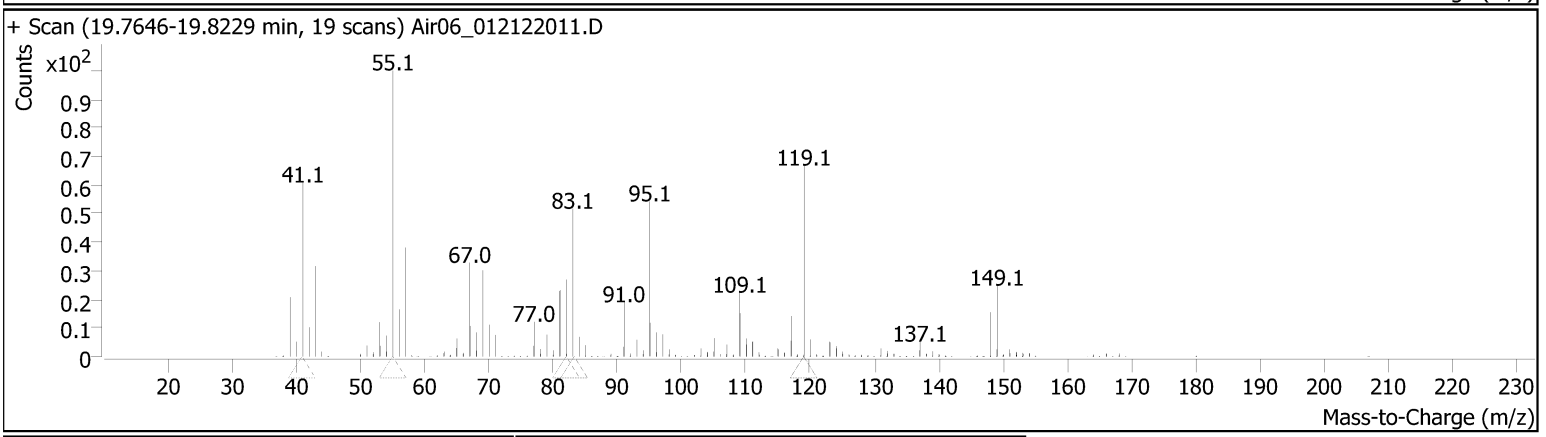
# Library Search Results - NonTarget Hits with Details

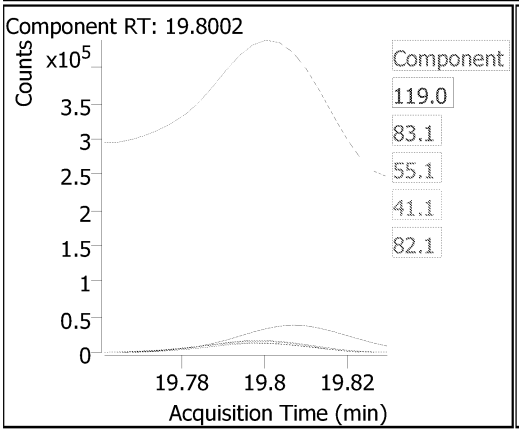
Agilent Technologies

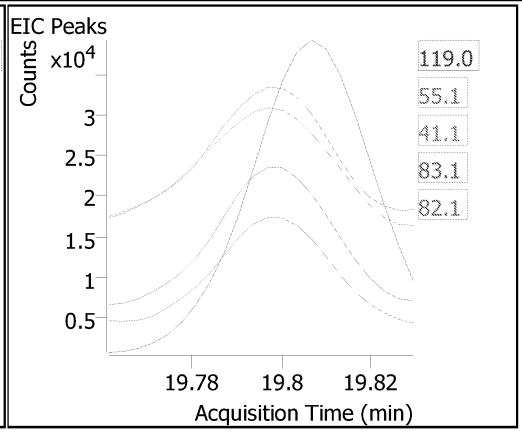
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.8002 | 3-Cyclohexylthiolane,S,S-dioxide | 1114468.2 | 70.0 | 71053-08-2 | C10H18O2S | 2.324 |

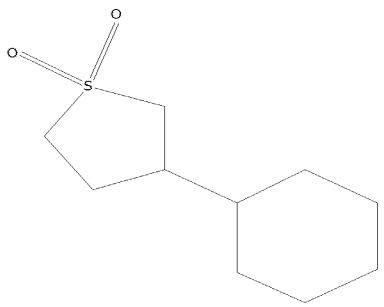


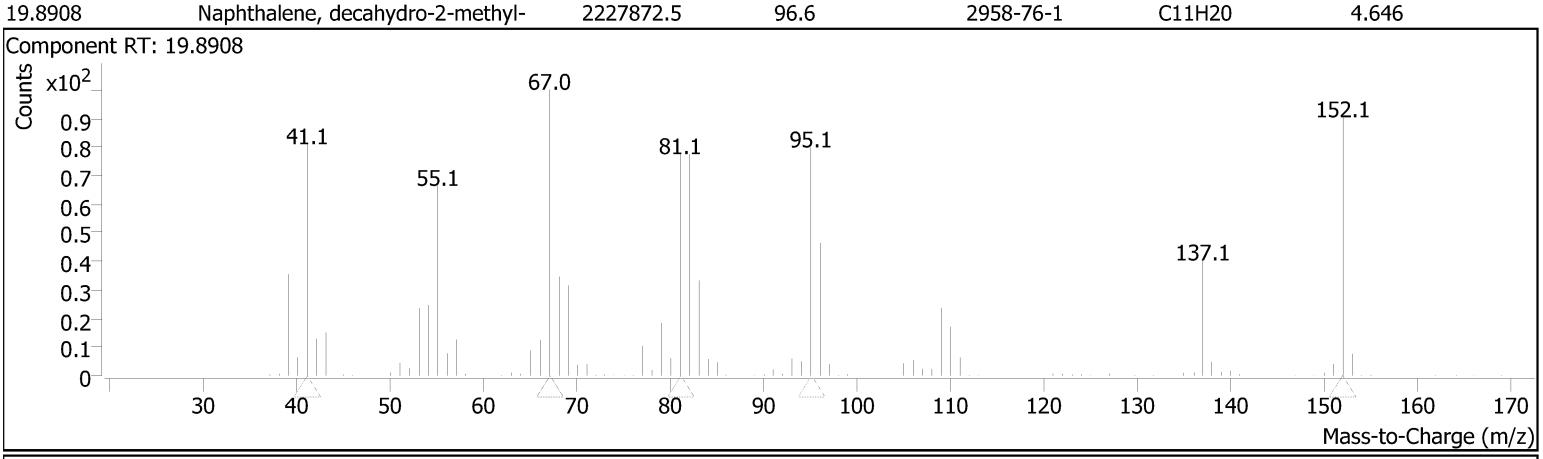



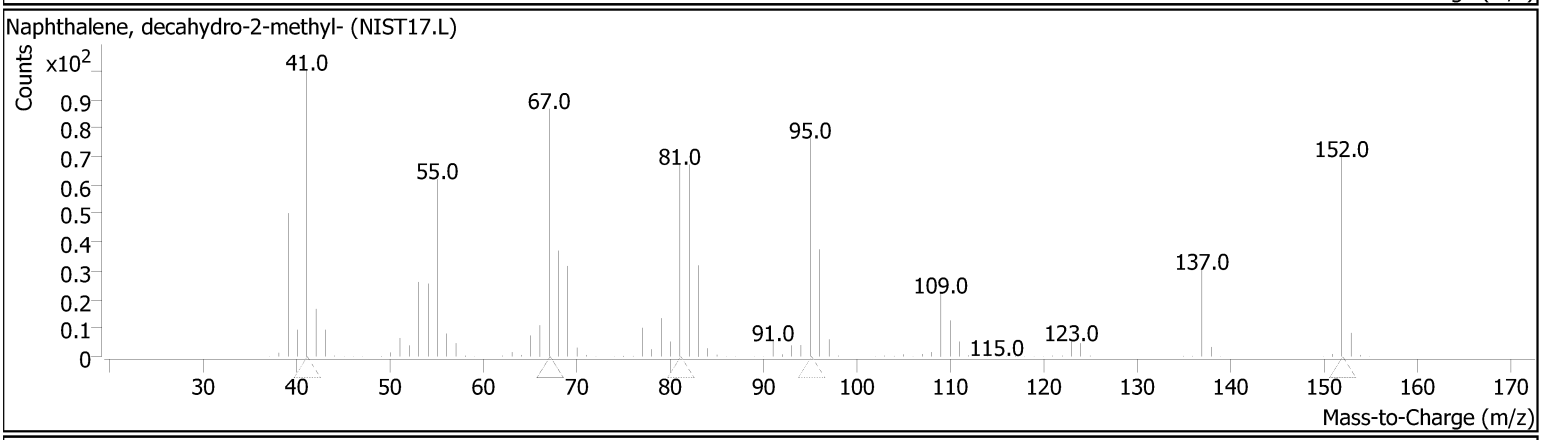



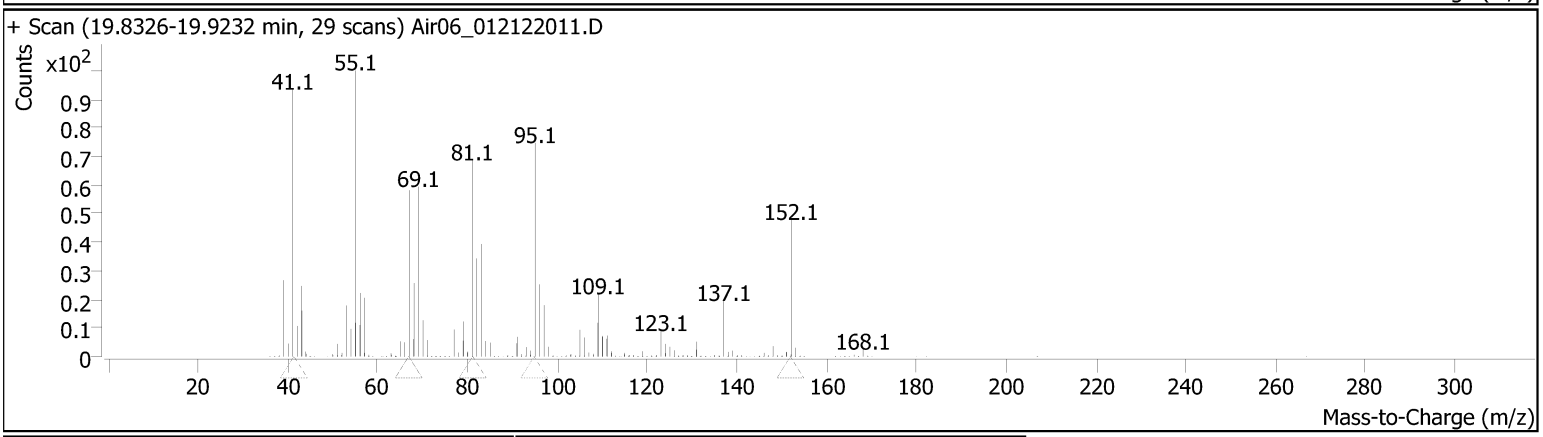



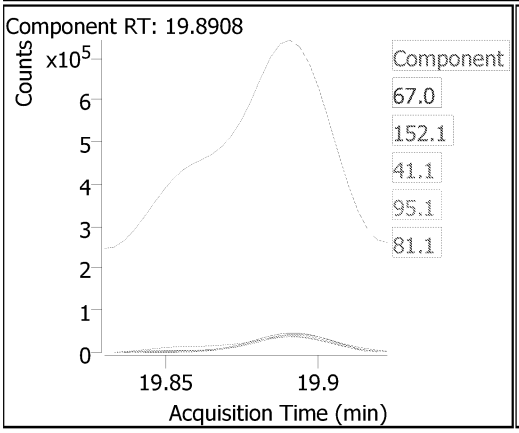



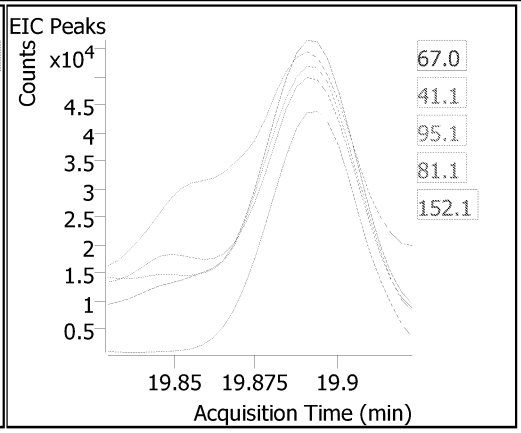
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.8908 | Naphthalene, decahydro-2-methyl- | 2227872.5 | 96.6 | 2958-76-1 | C11H20 | 4.646 |

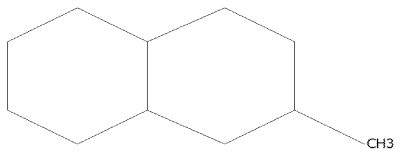


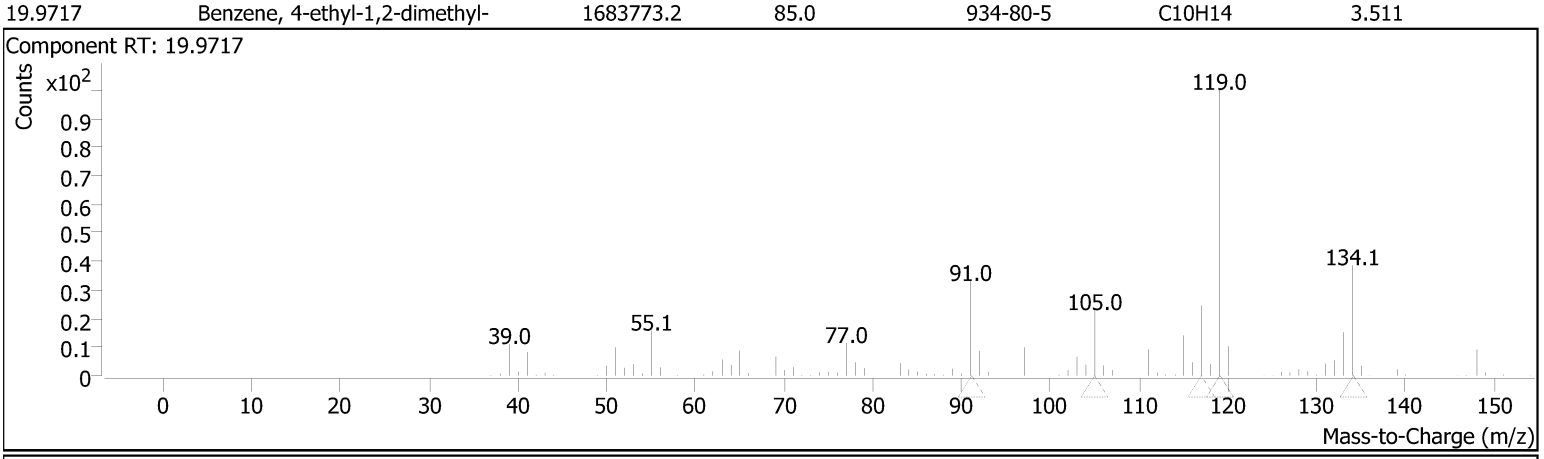



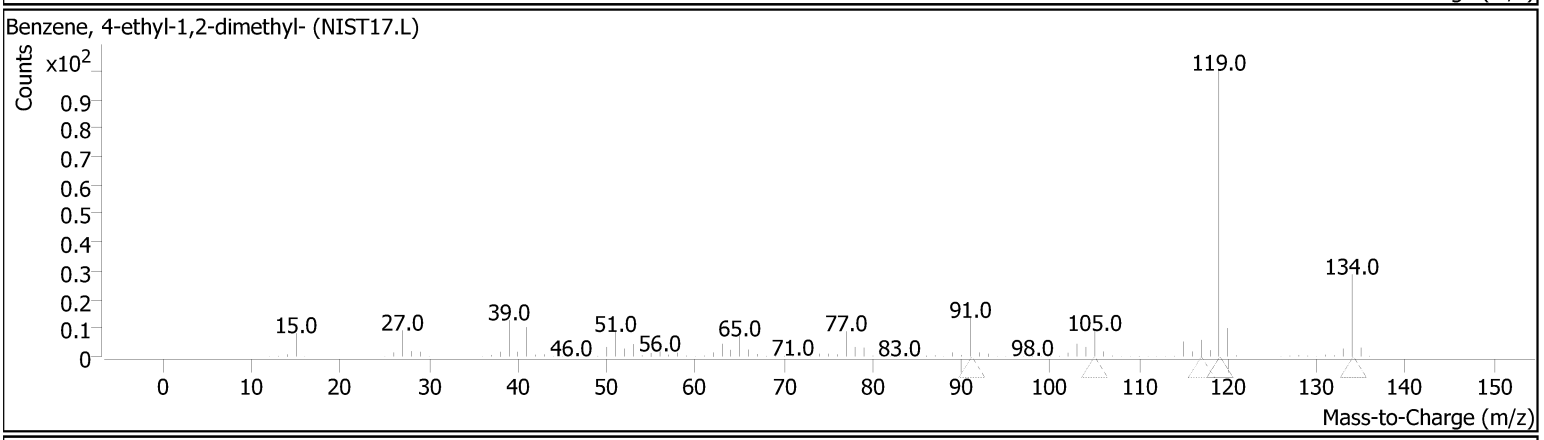



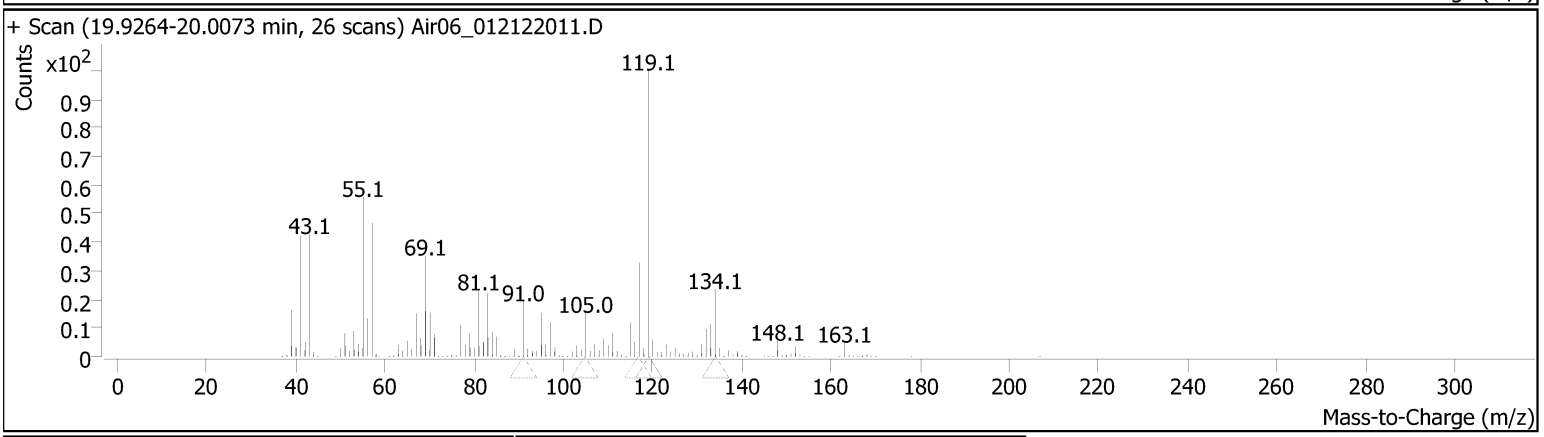



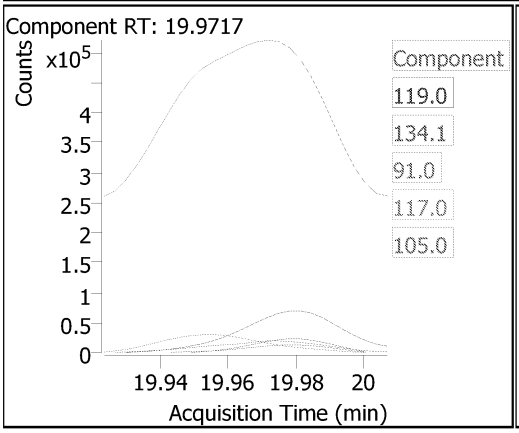



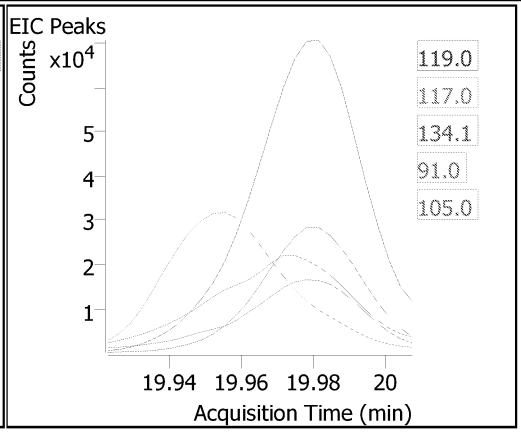
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.9717 | Benzene, 4-ethyl-1,2-dimethyl- | 1683773.2 | 85.0 | 934-80-5 | C10H14 | 3.511 |

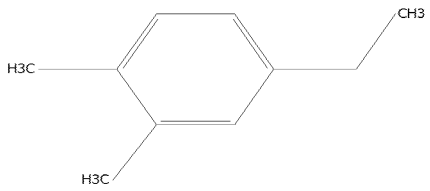


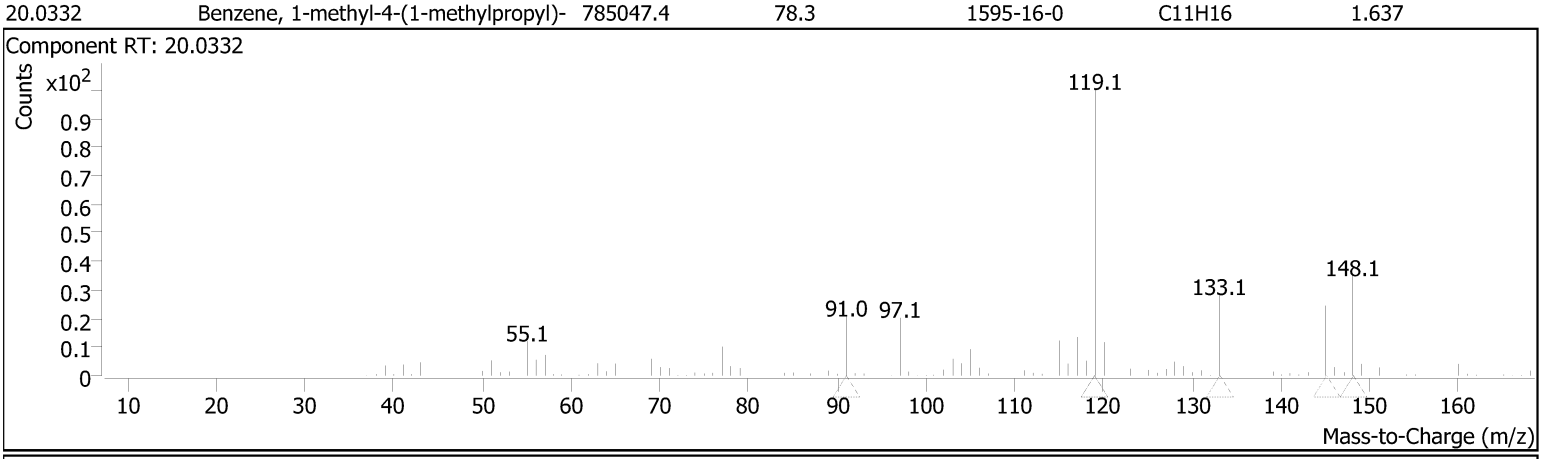



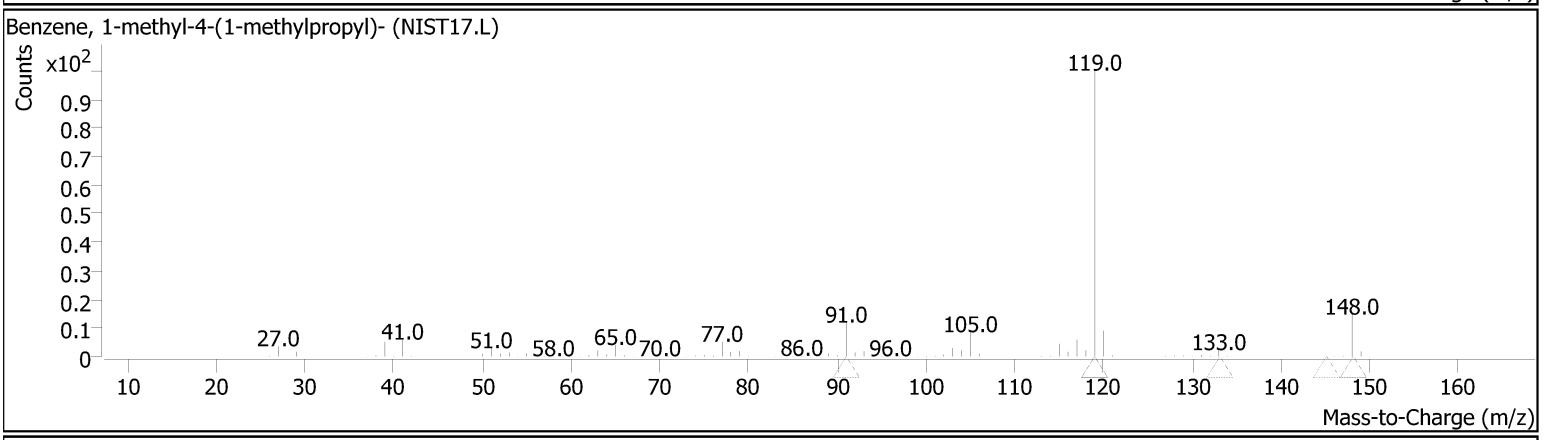



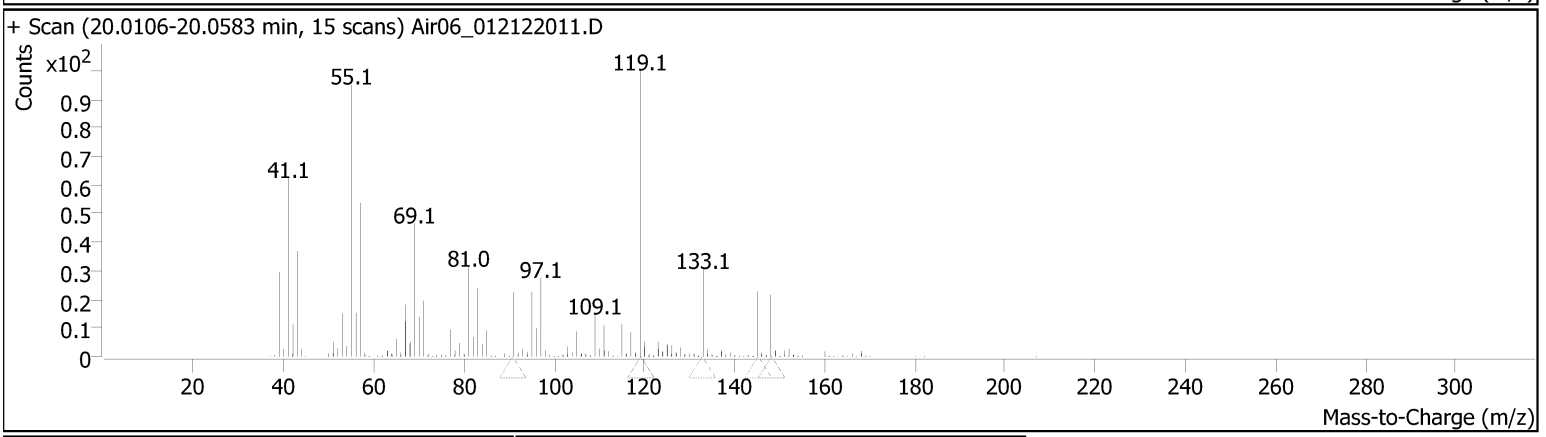



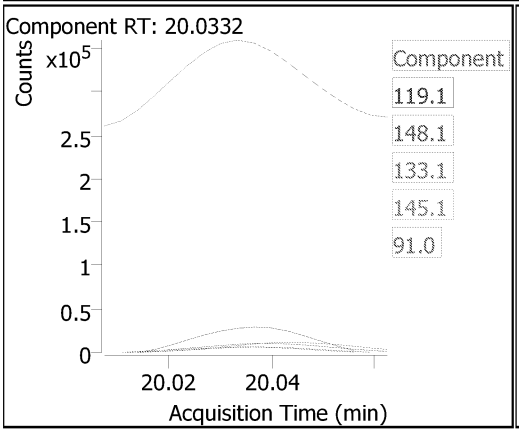



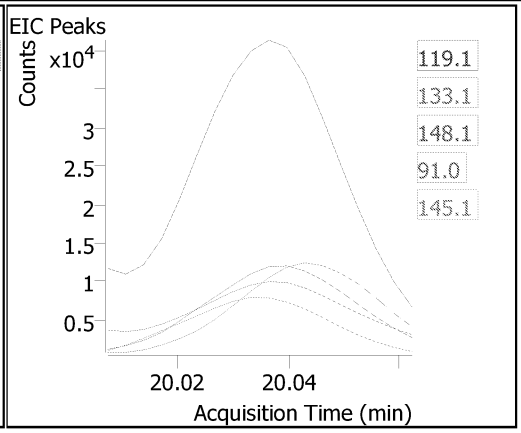
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0332 | Benzene, 1-methyl-4-(1-methylpropyl)- | 785047.4 | 78.3 | 1595-16-0 | C11H16 | 1.637 |

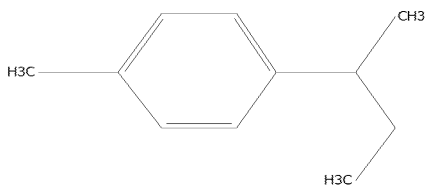


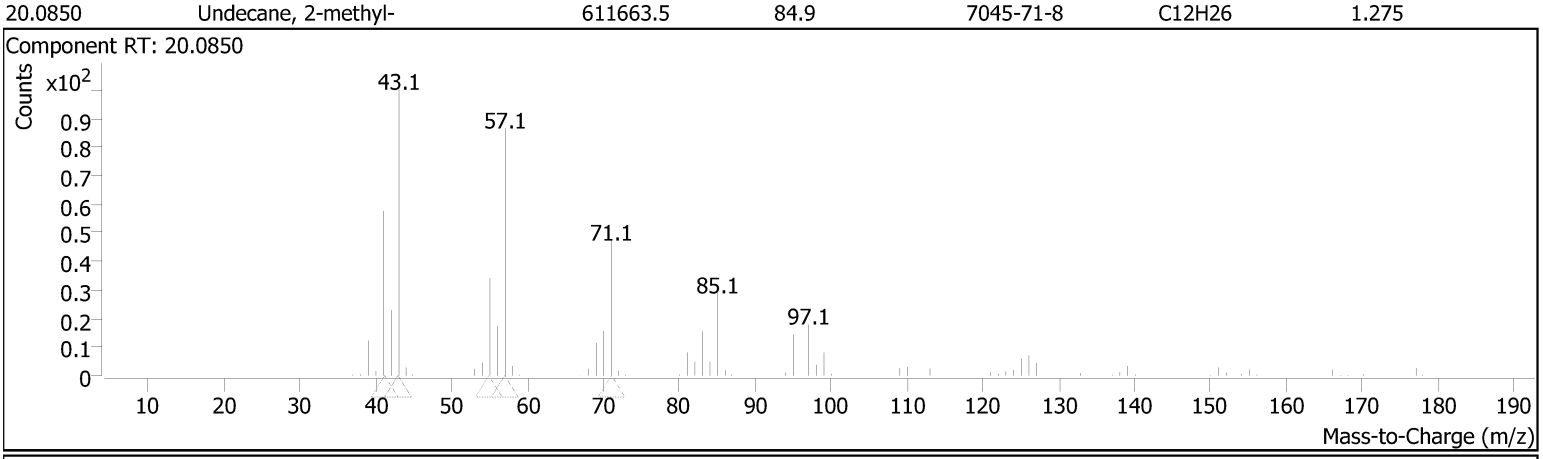



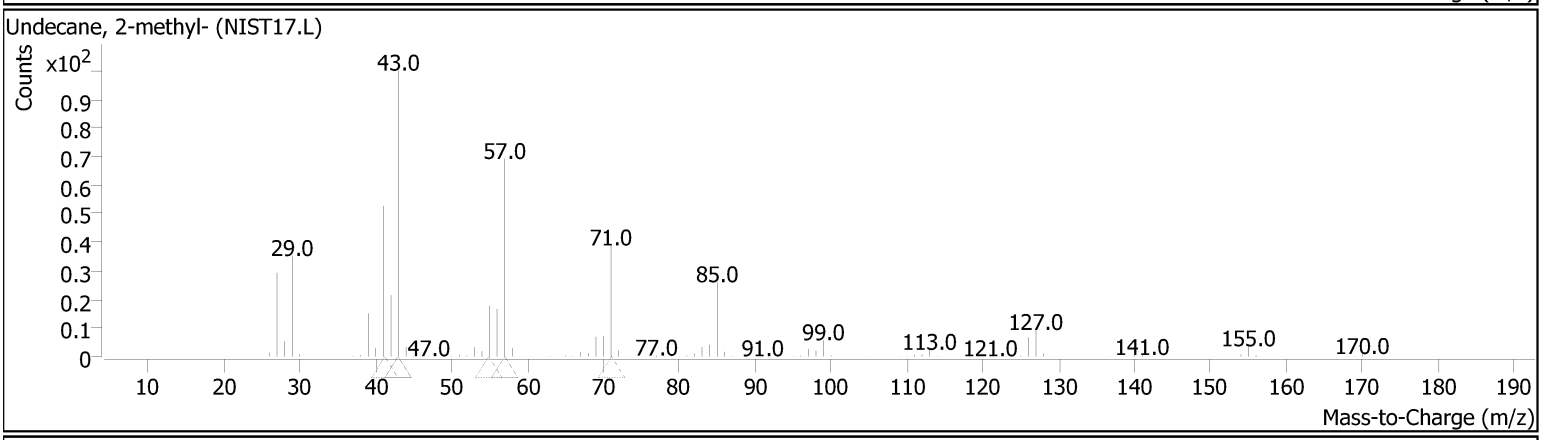



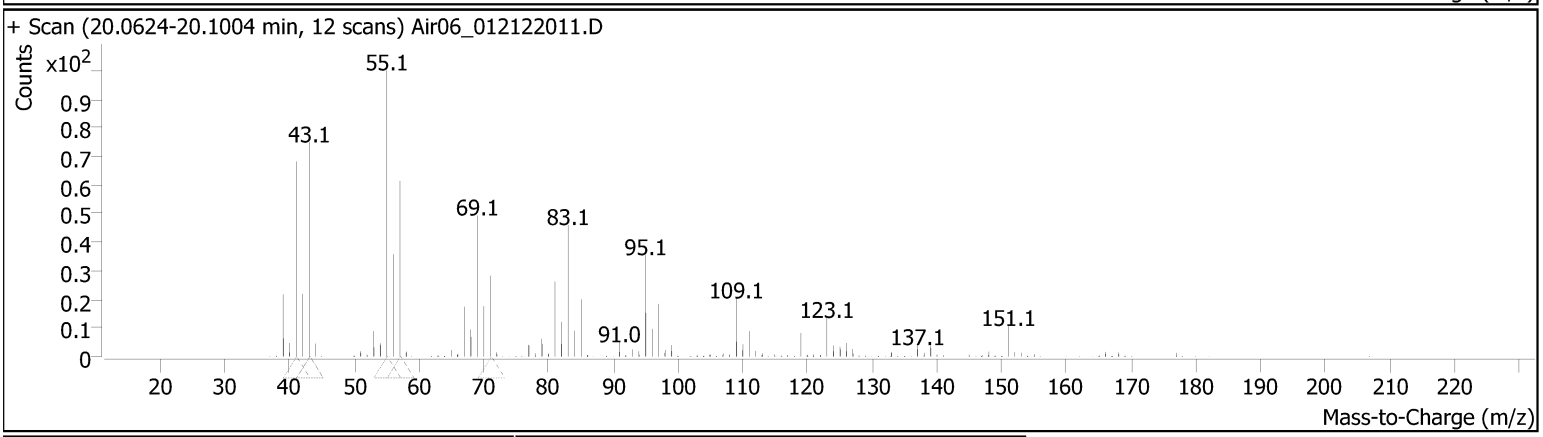
# Library Search Results - NonTarget Hits with Details

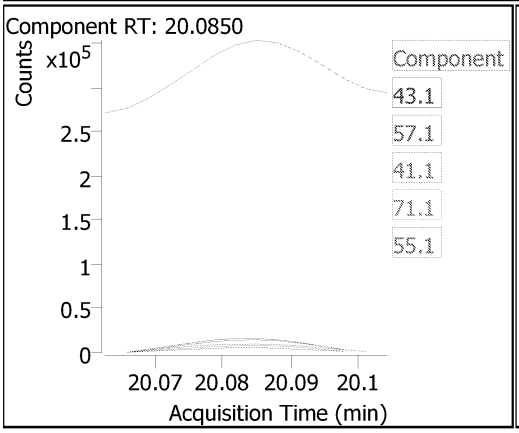
Agilent Technologies

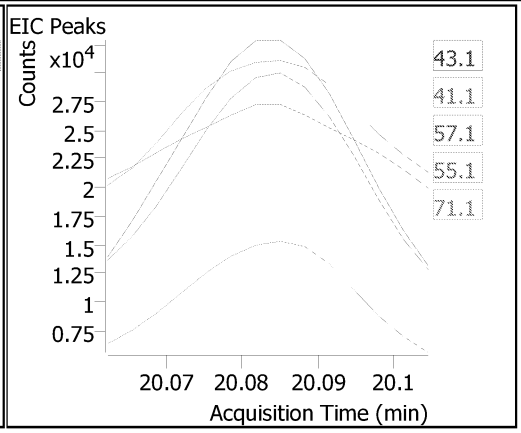
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0850 | Undecane, 2-methyl- | 611663.5 | 84.9 | 7045-71-8 | C12H26 | 1.275 |



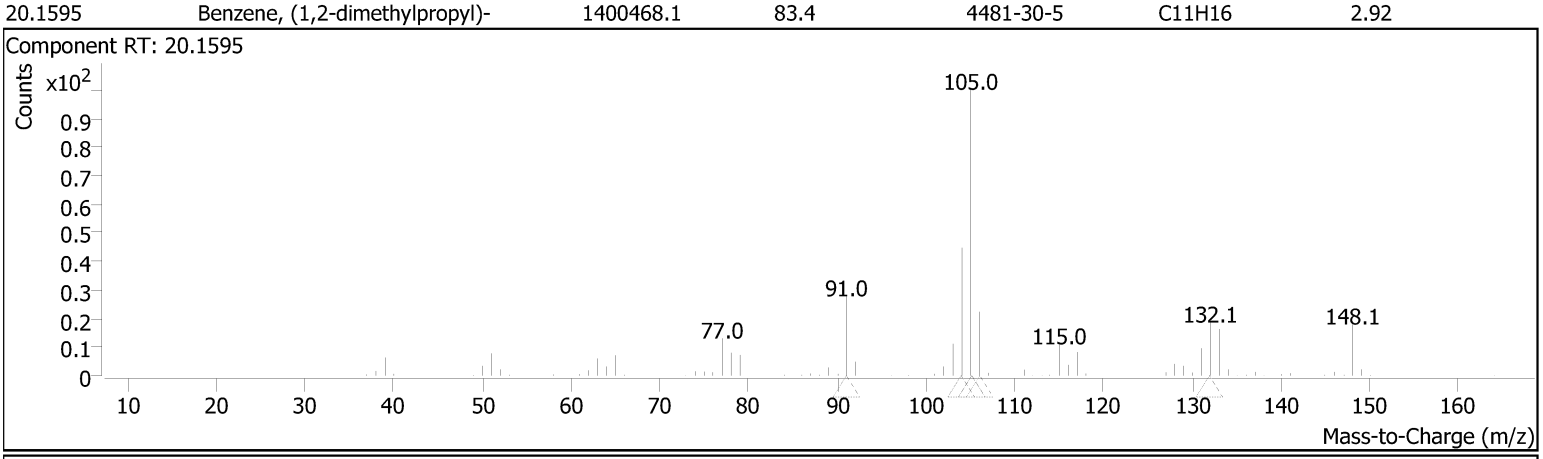



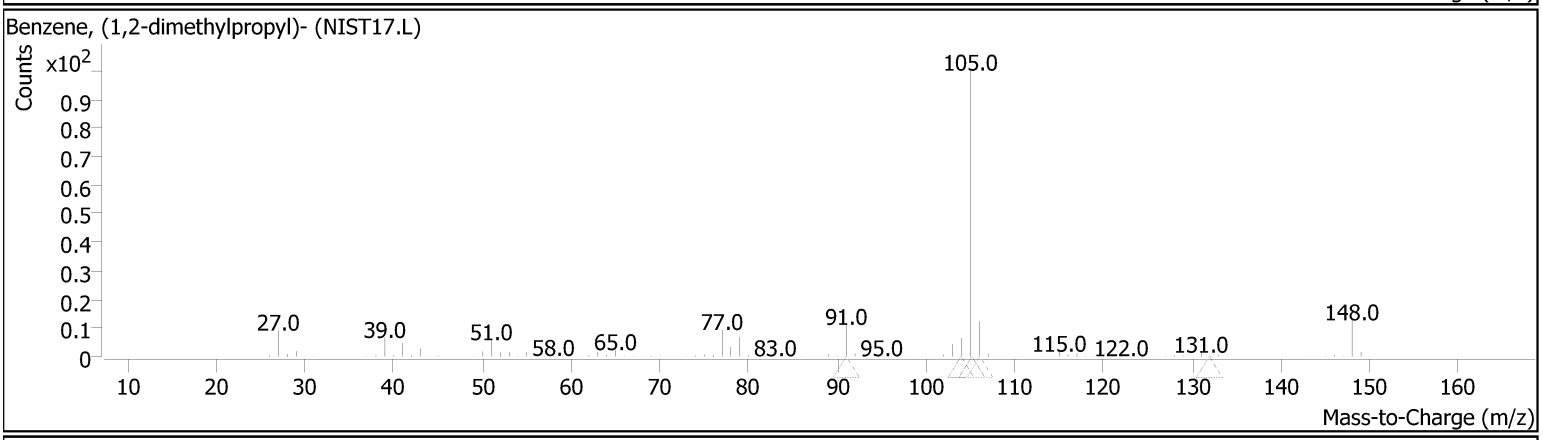



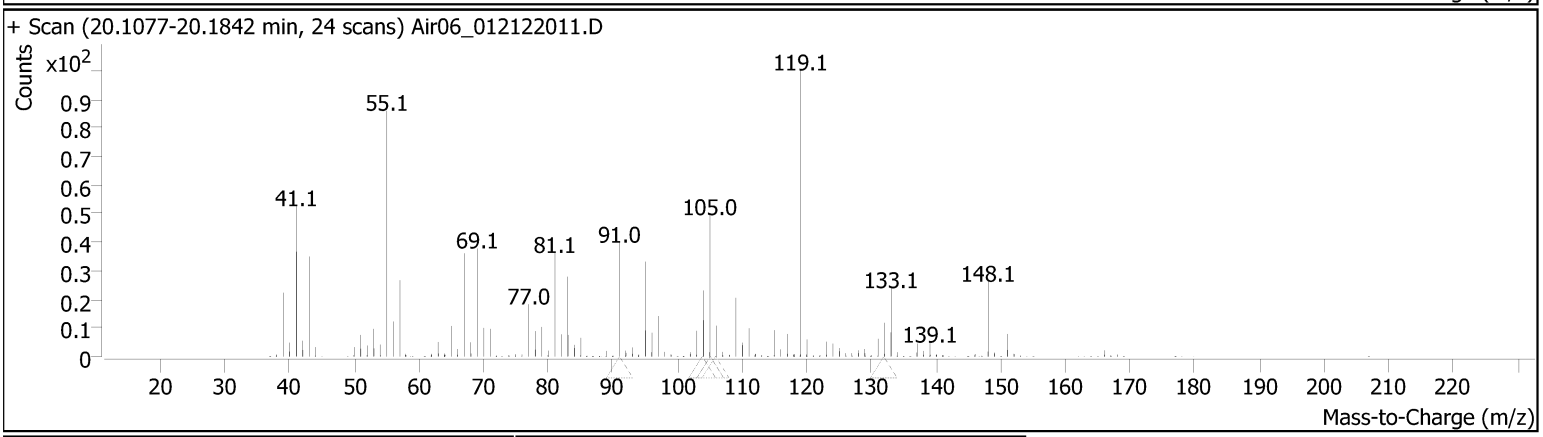



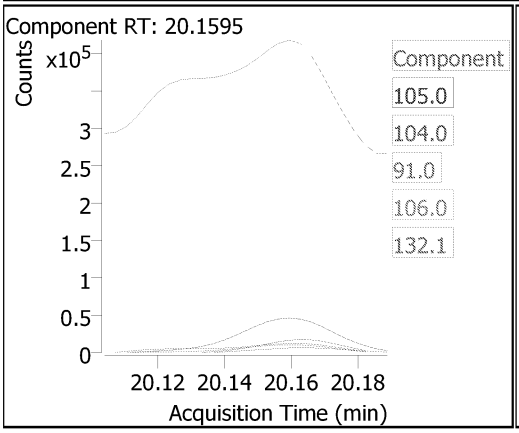


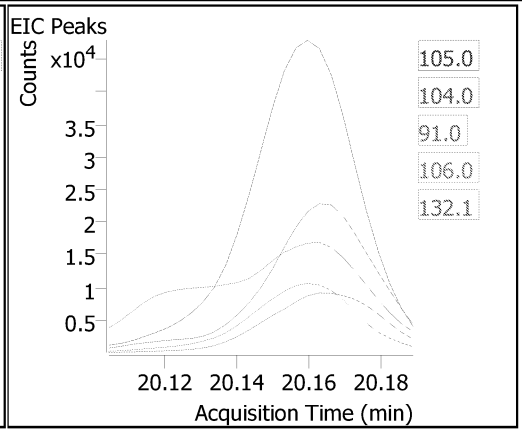

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.1595 | Benzene, (1,2-dimethylpropyl)- | 1400468.1 | 83.4 | 4481-30-5 | C11H16 | 2.92 |

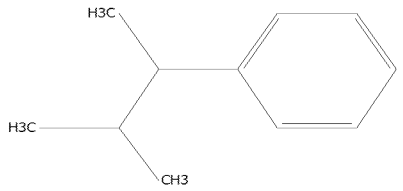


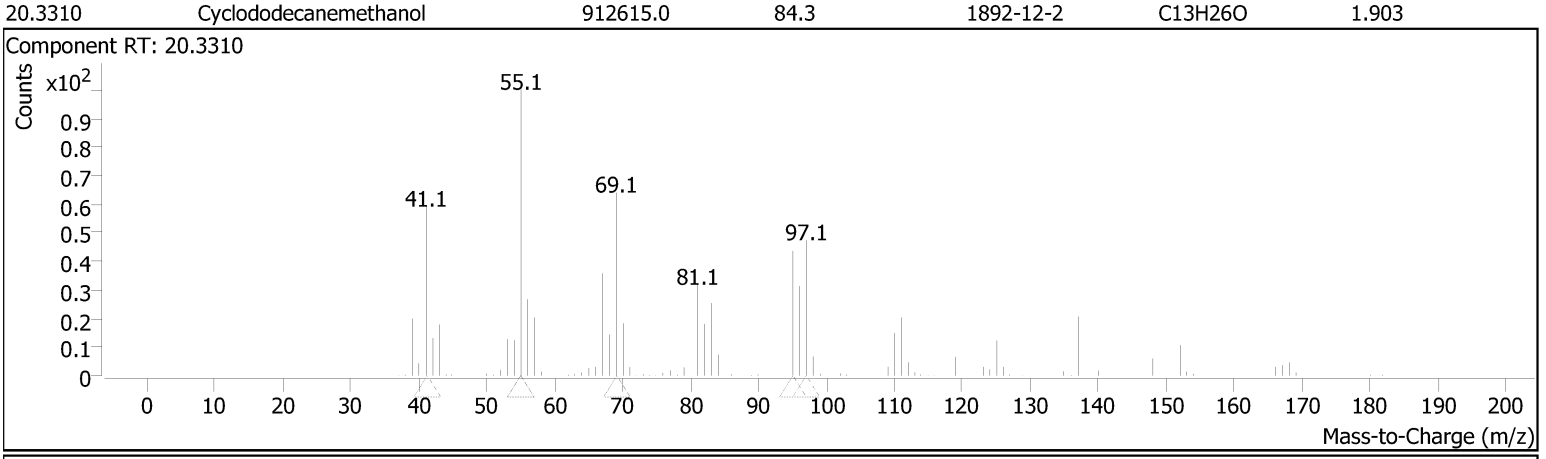



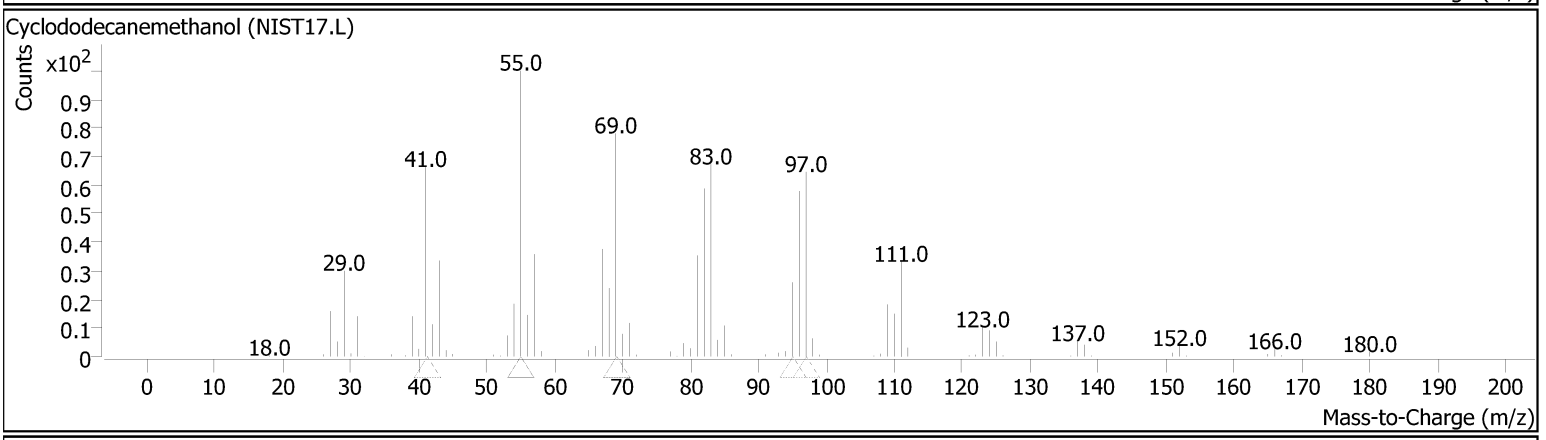



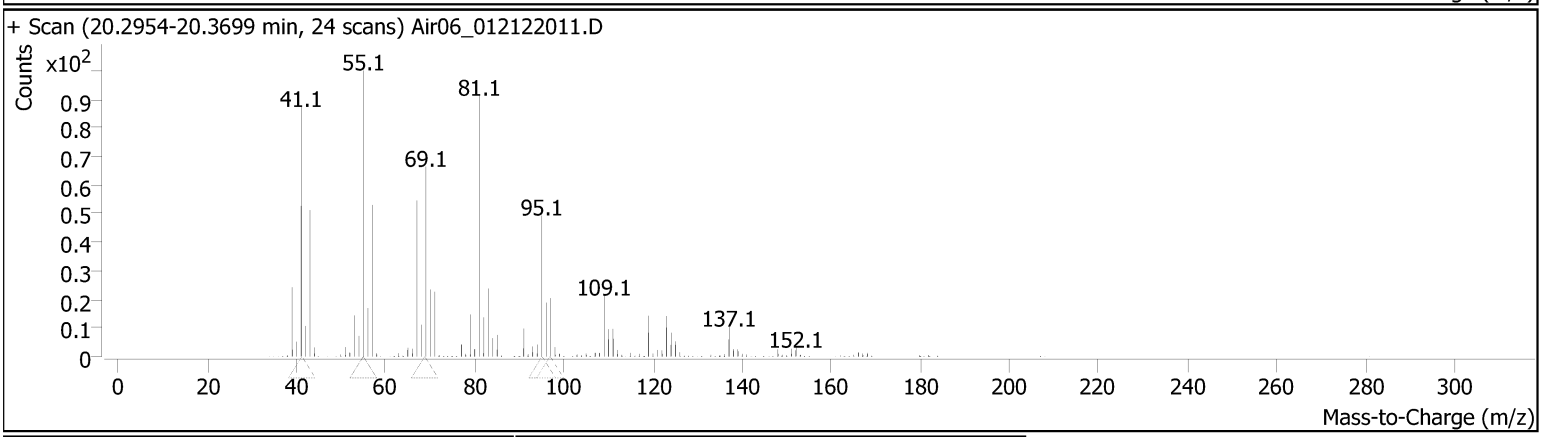



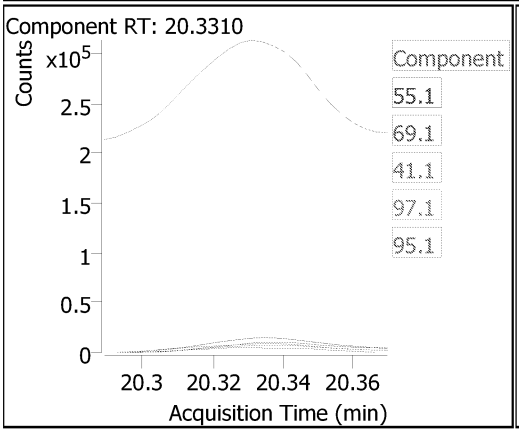



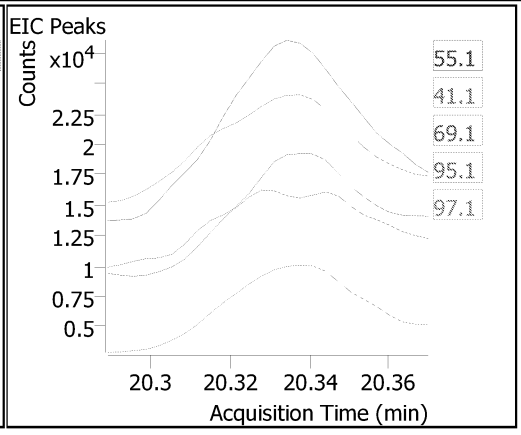
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3310 | Cyclododecanemethanol | 912615.0 | 84.3 | 1892-12-2 | C13H26O | 1.903 |

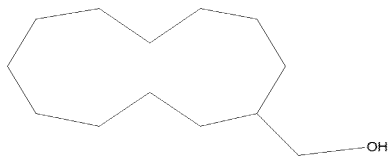


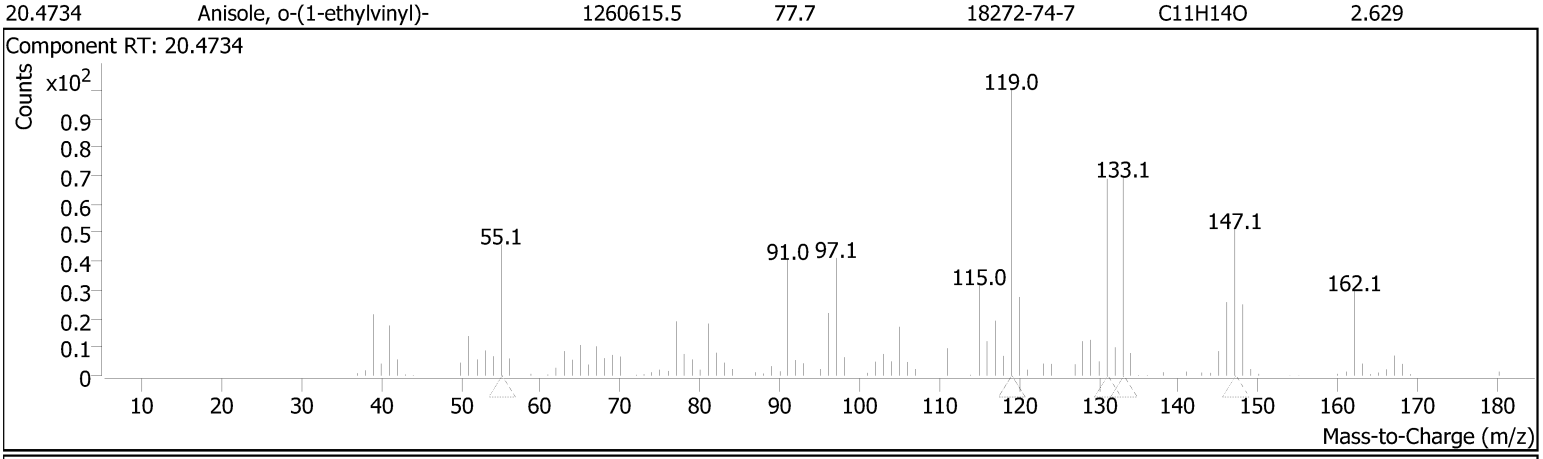



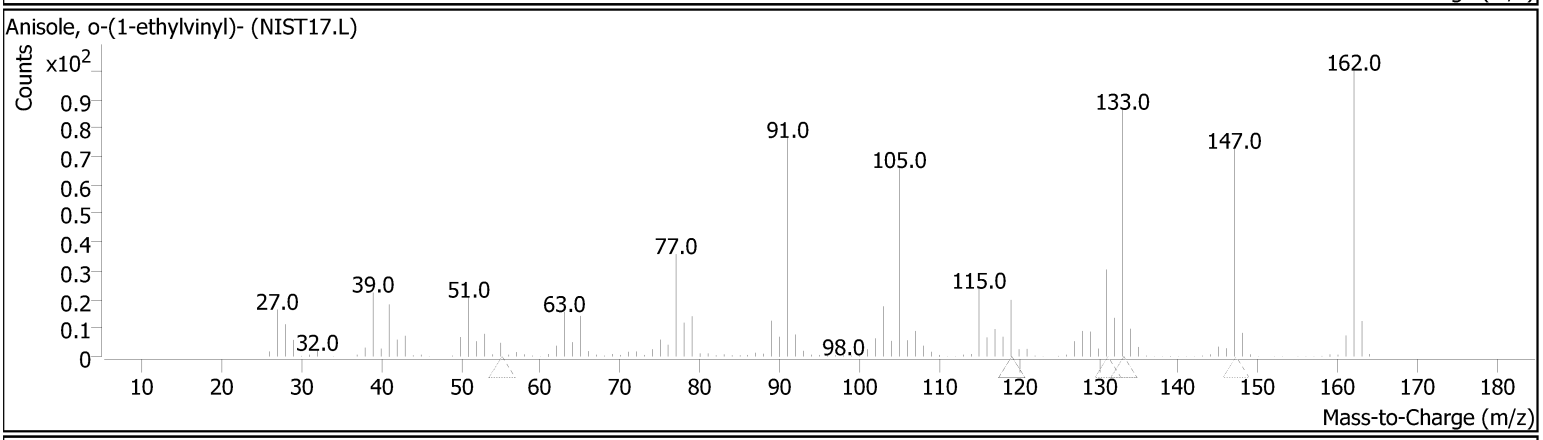



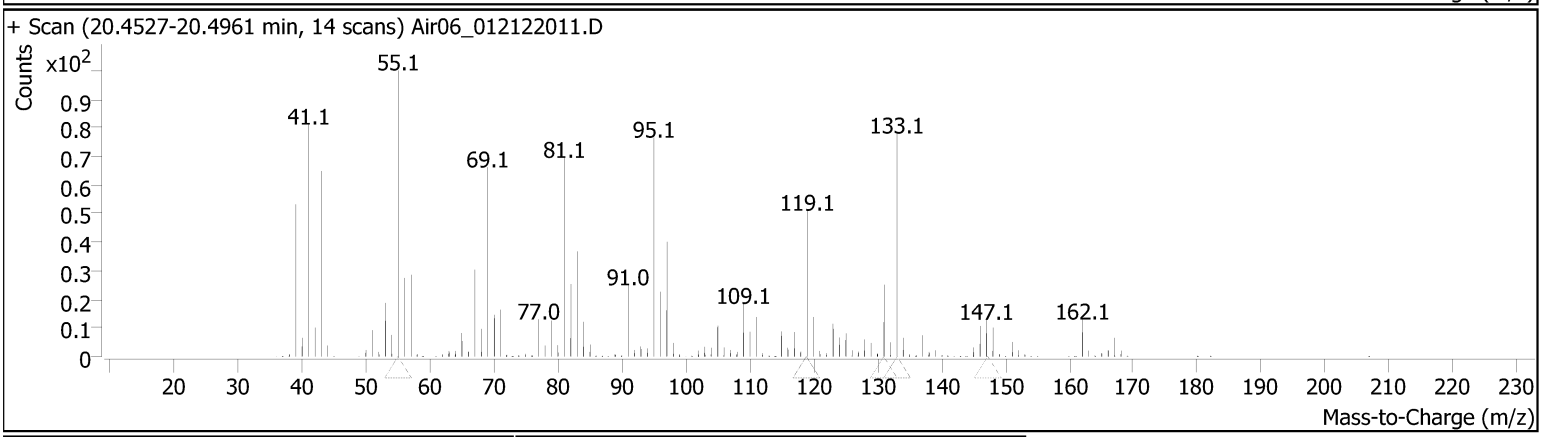



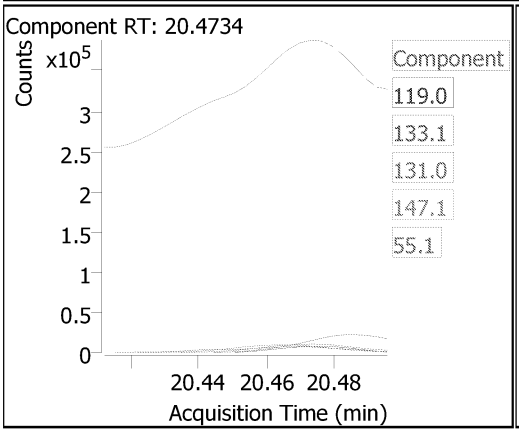



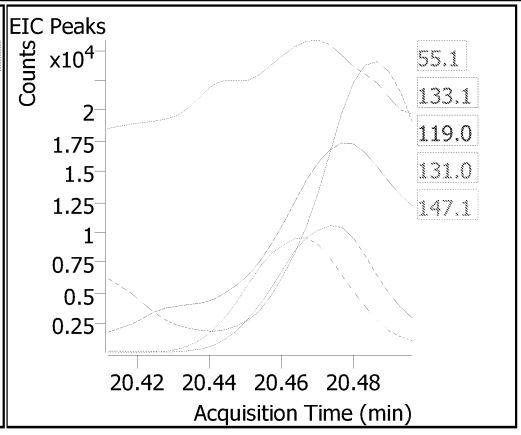
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.4734 | Anisole, o-(1-ethylvinyl)- | 1260615.5 | 77.7 | 18272-74-7 | C11H14O | 2.629 |

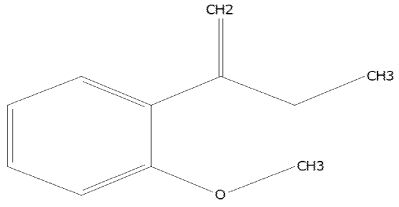


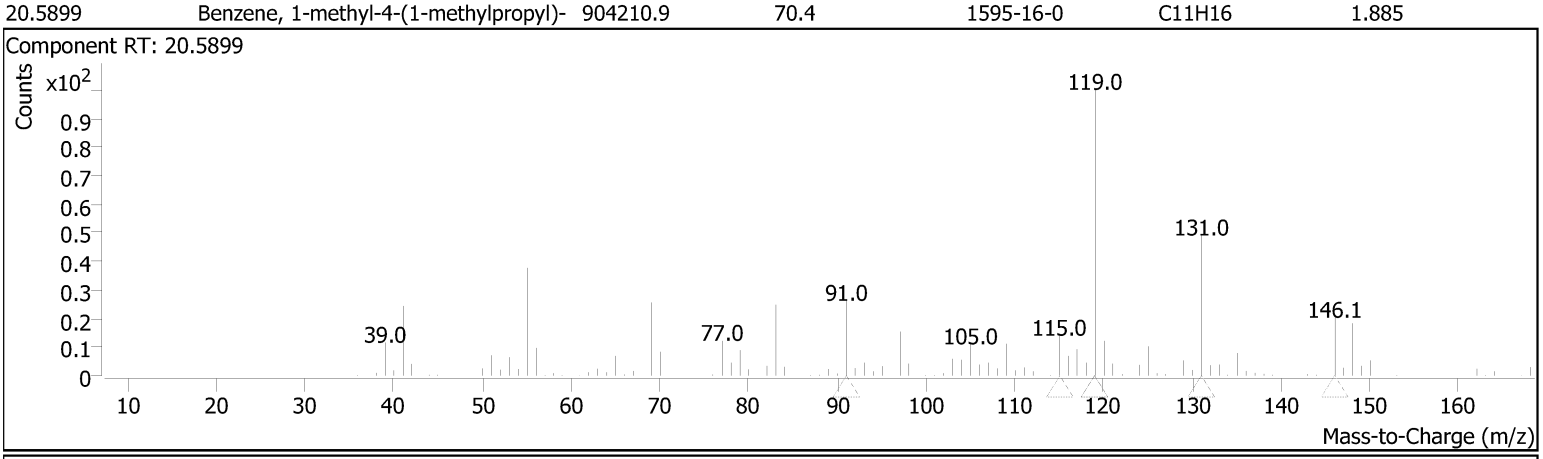



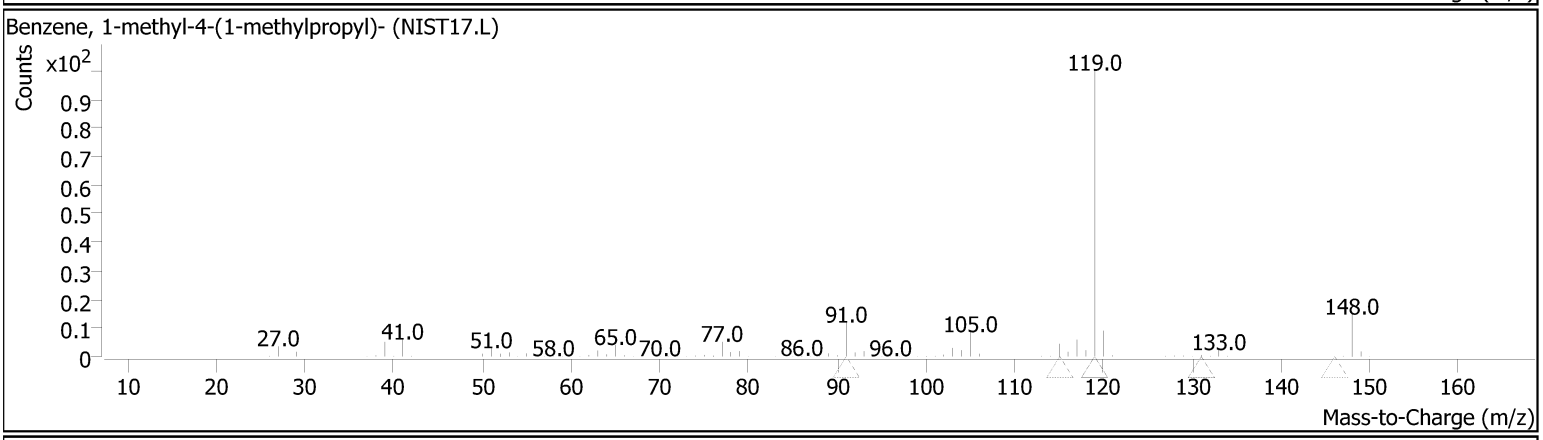



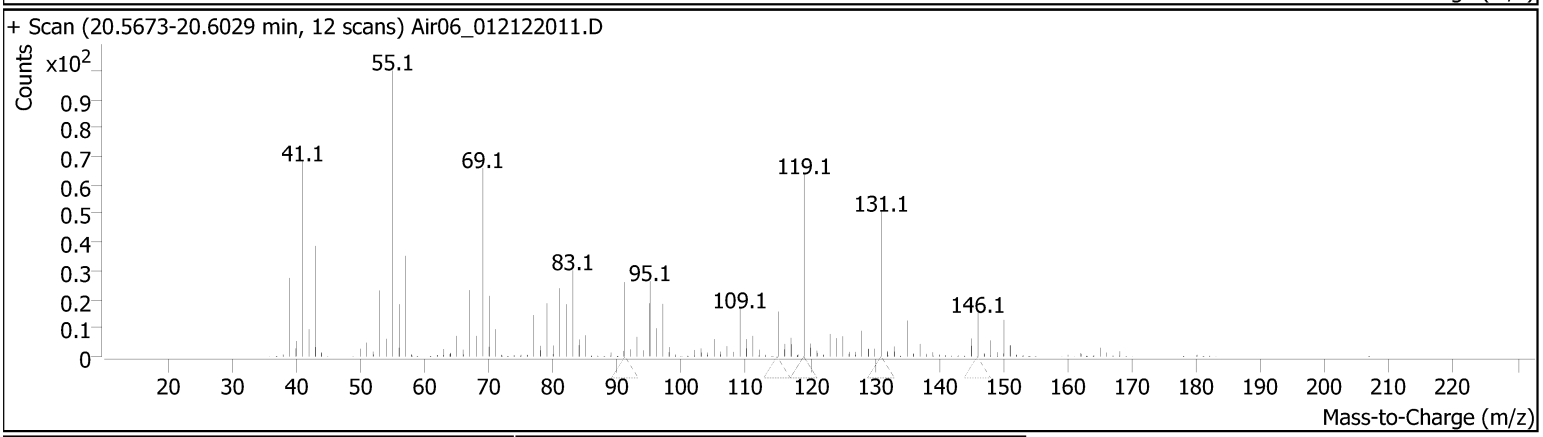



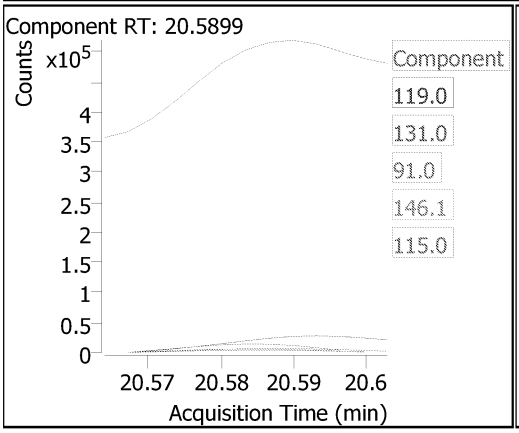



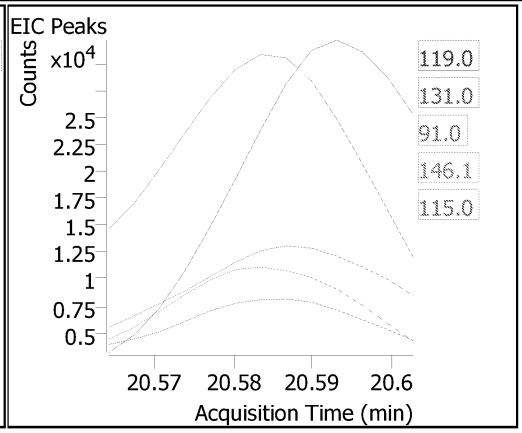
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.5899 | Benzene, 1-methyl-4-(1-methylpropyl)- | 904210.9 | 70.4 | 1595-16-0 | C11H16 | 1.885 |

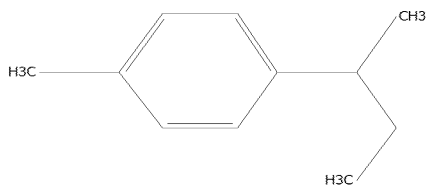


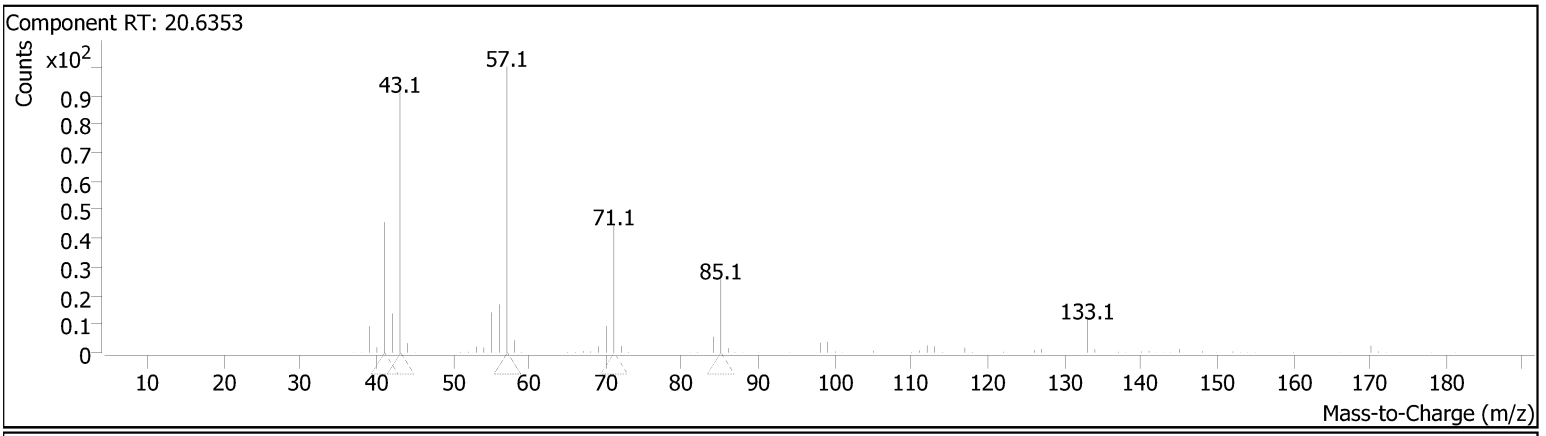



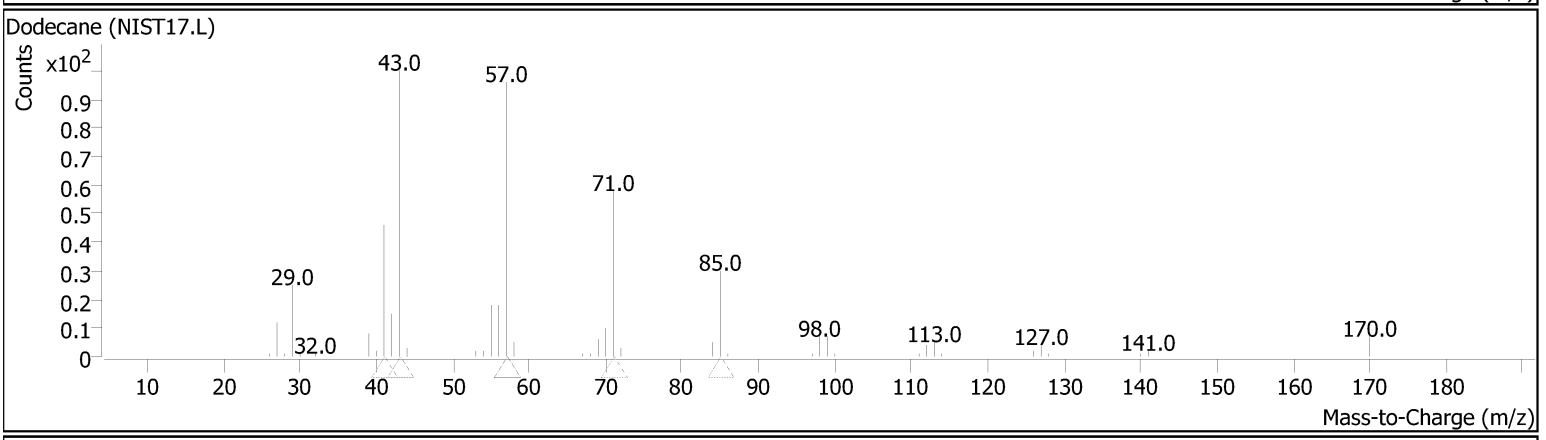



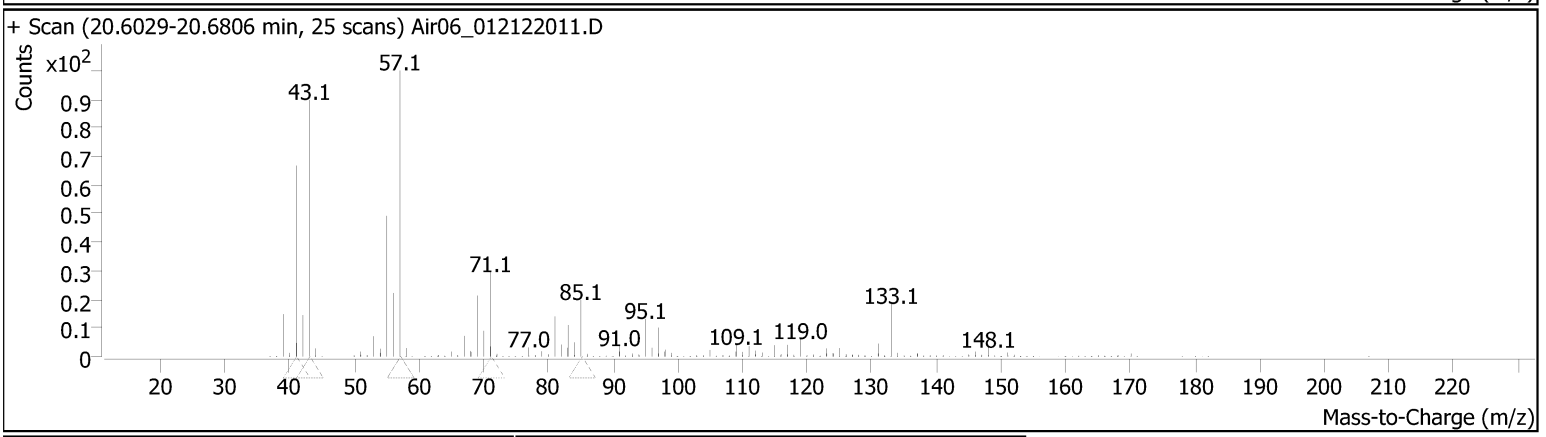
# Library Search Results - NonTarget Hits with Details

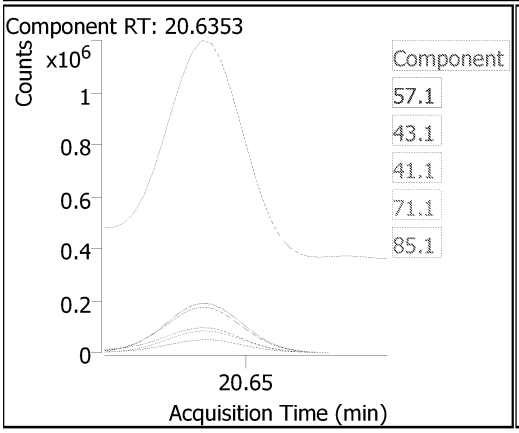
Agilent Technologies

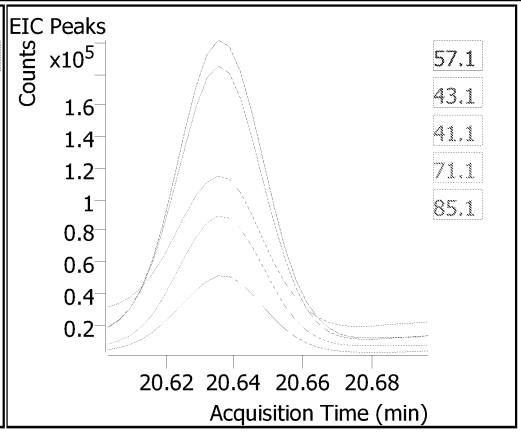
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.6353 | Dodecane | 3188721.9 | 89.4 | 112-40-3 | C12H26 | 6.649 |



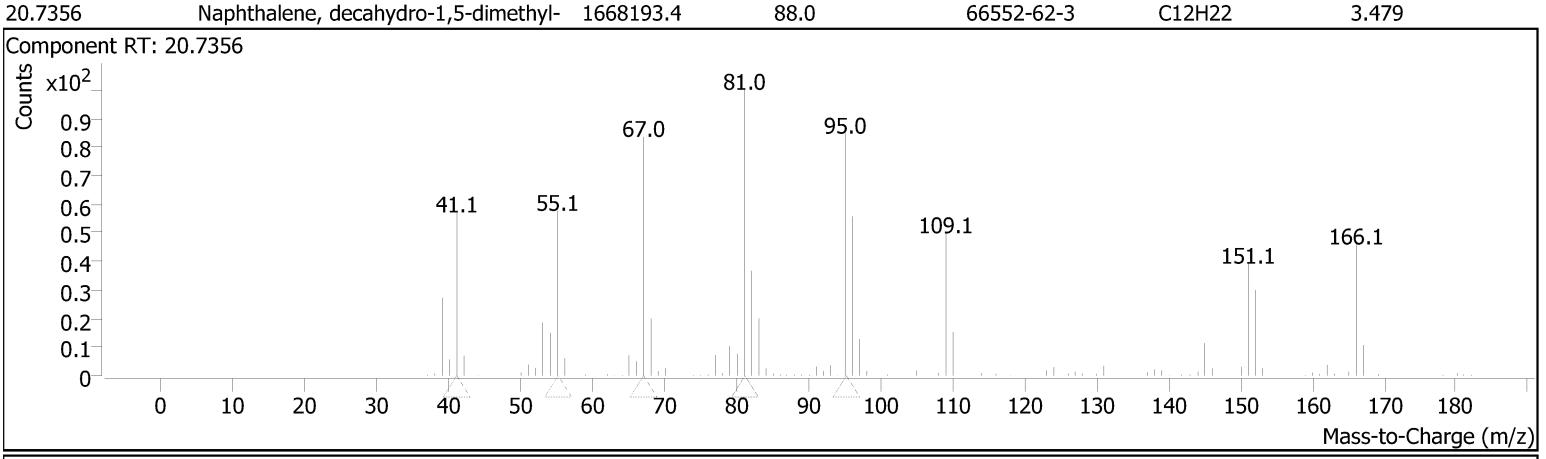



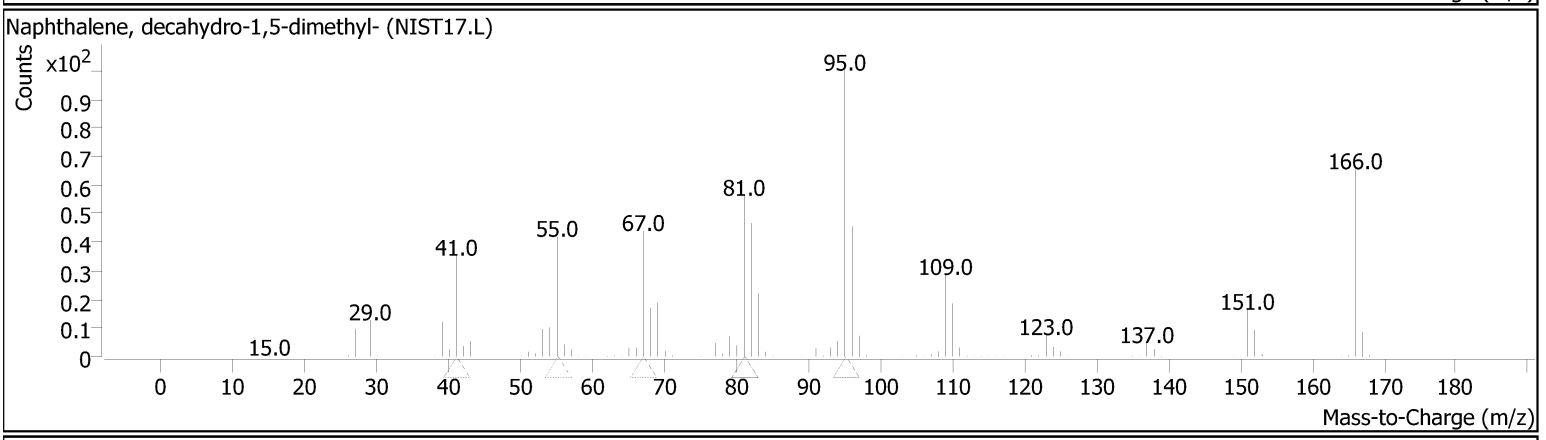



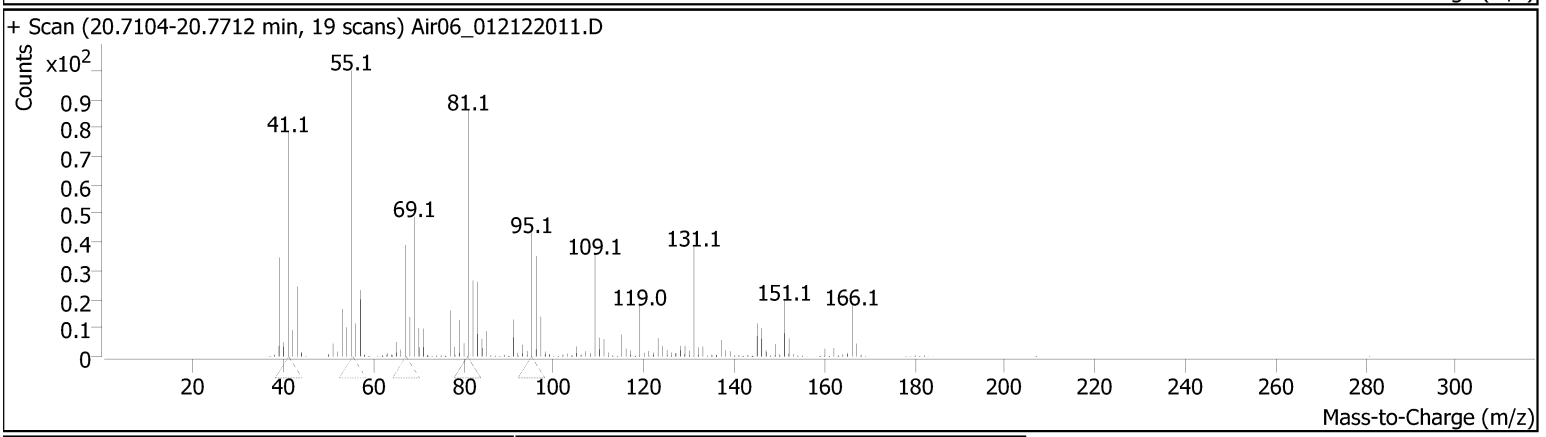



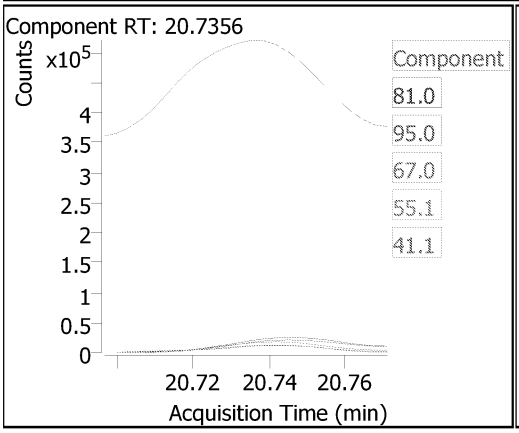


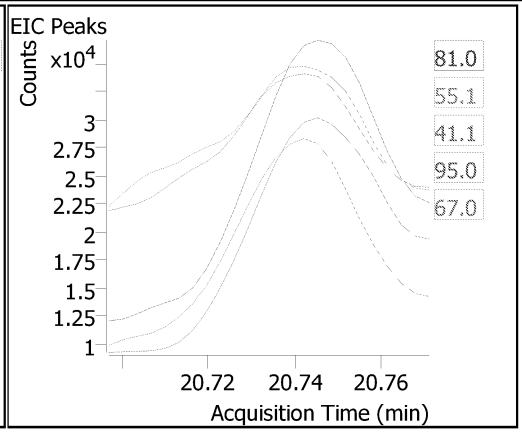

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.7356 | Naphthalene, decahydro-1,5-dimethyl- | 1668193.4 | 88.0 | 66552-62-3 | C12H22 | 3.479 |

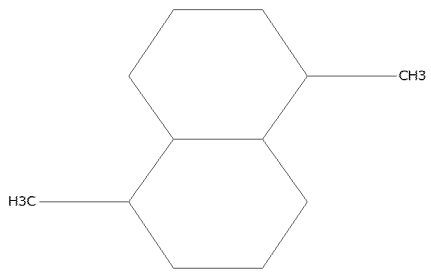


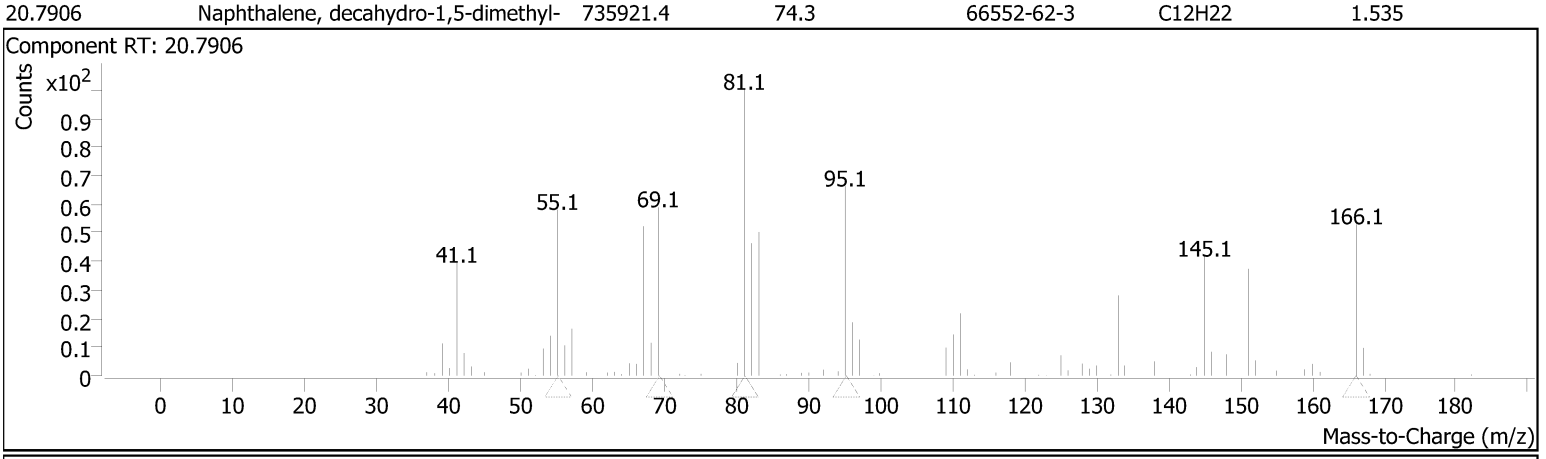



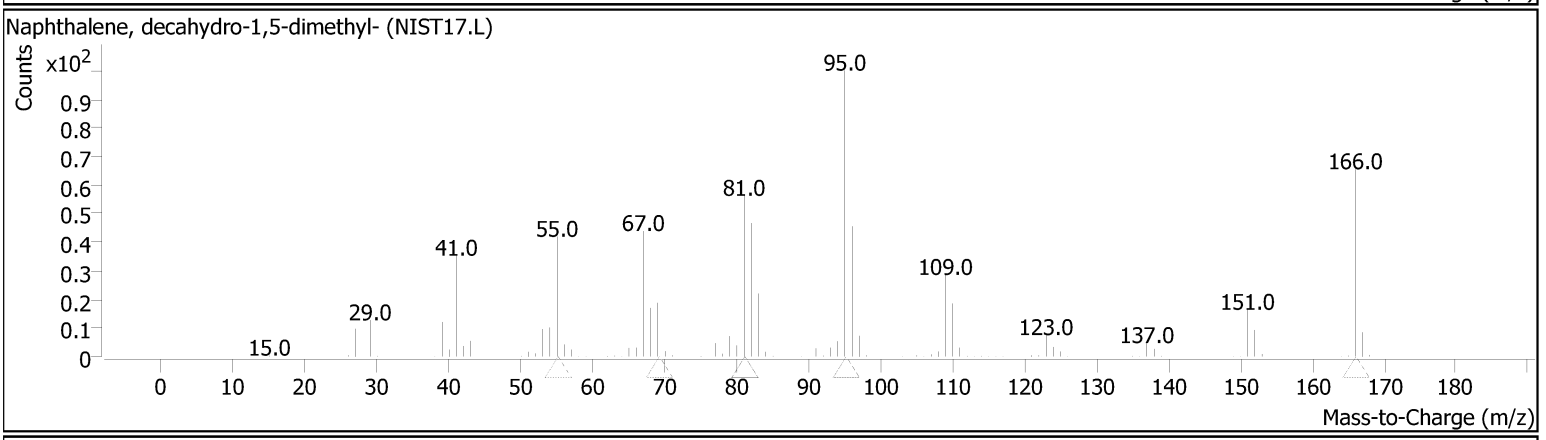



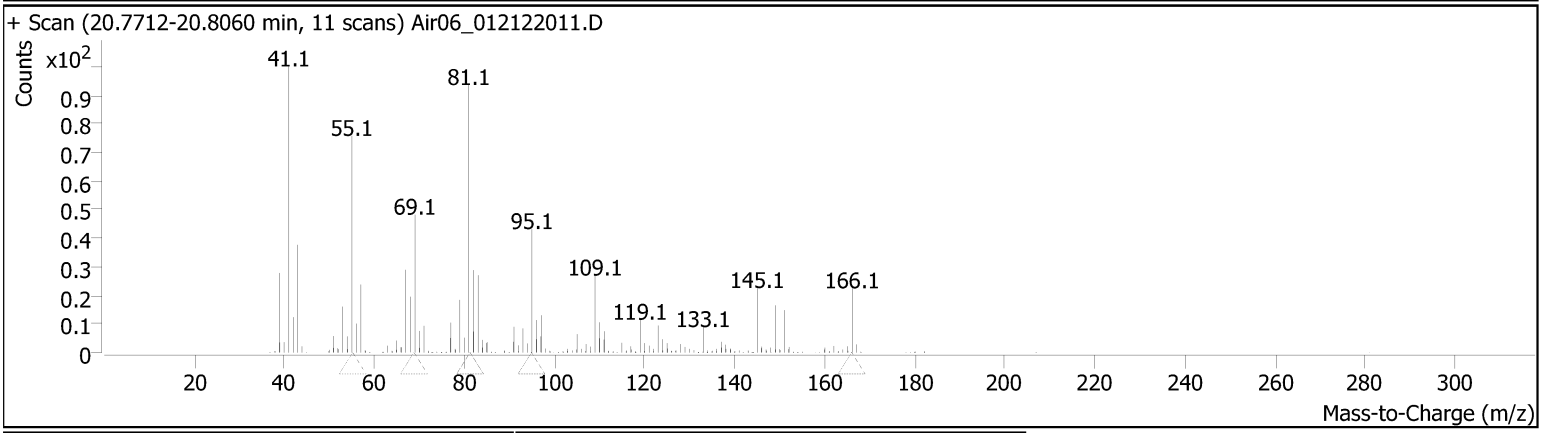
# Library Search Results - NonTarget Hits with Details

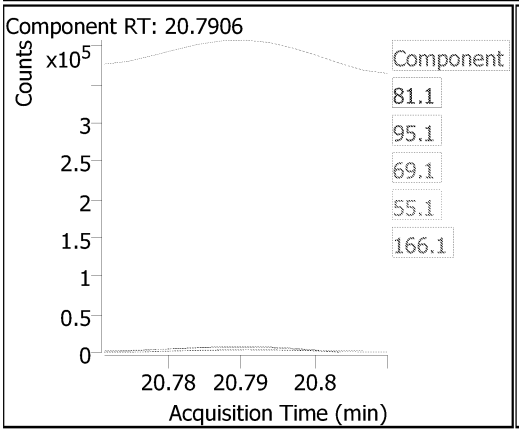
Agilent Technologies

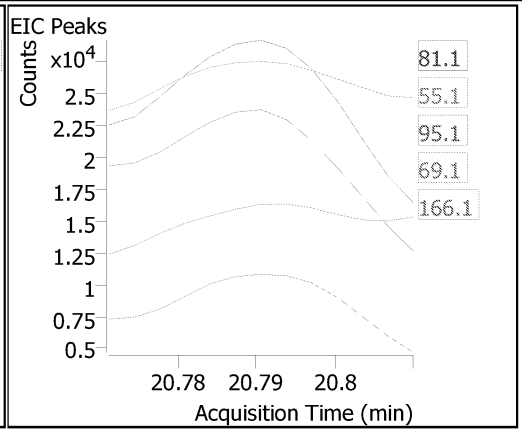
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.7906 | Naphthalene, decahydro-1,5-dimethyl- | 735921.4 | 74.3 | 66552-62-3 | C12H22 | 1.535 |

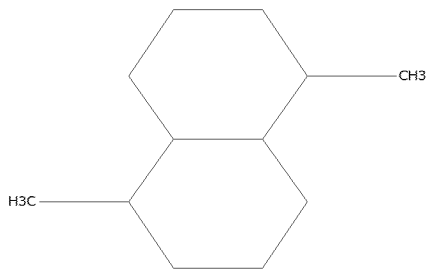


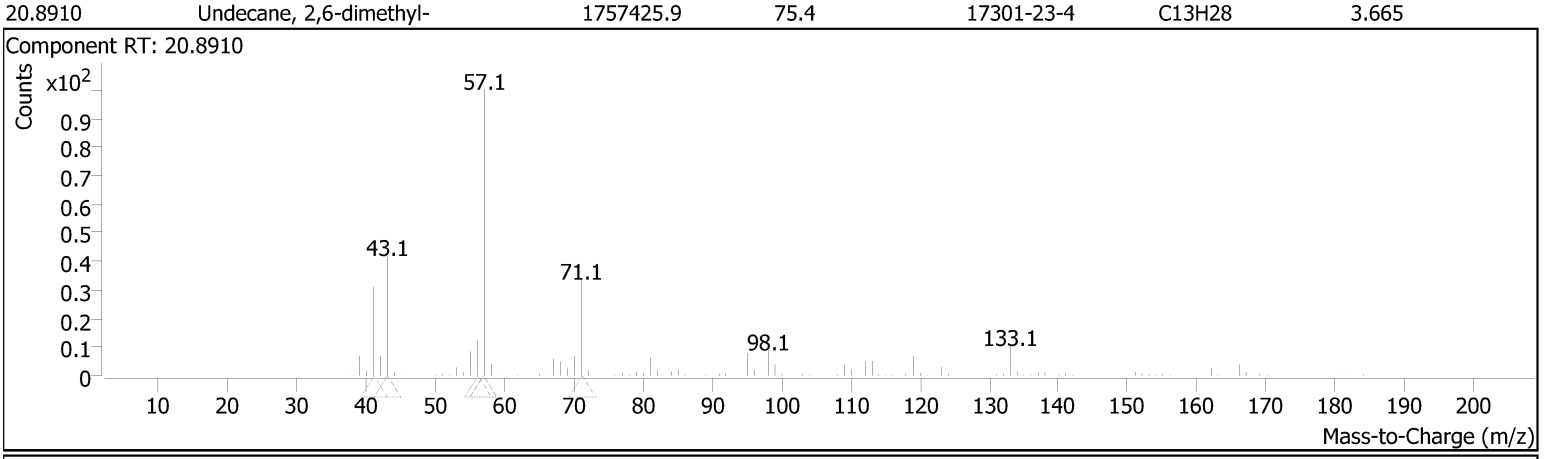



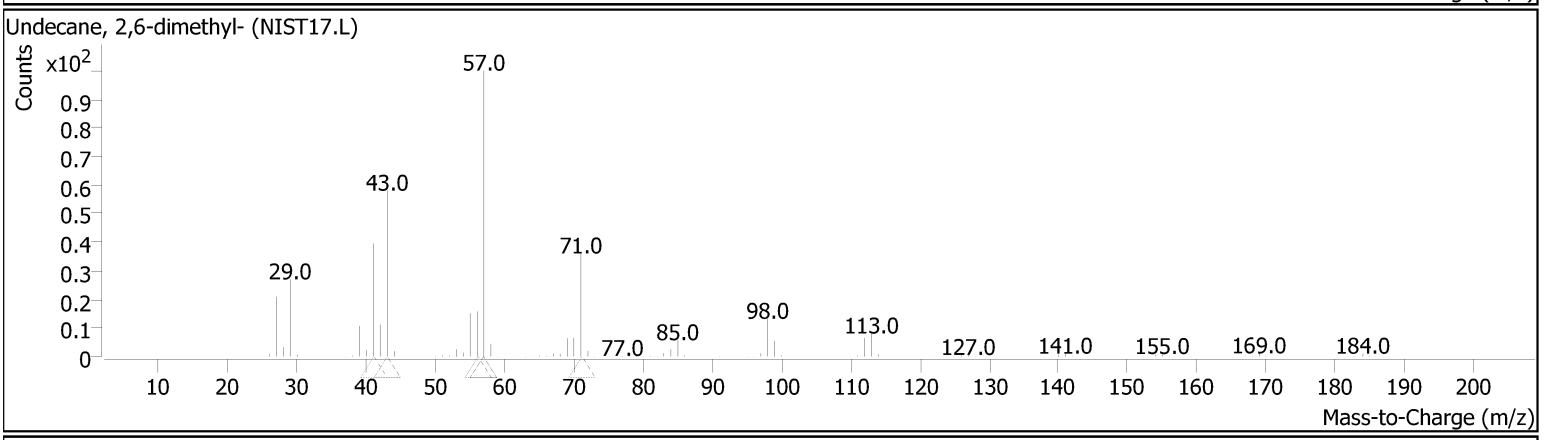



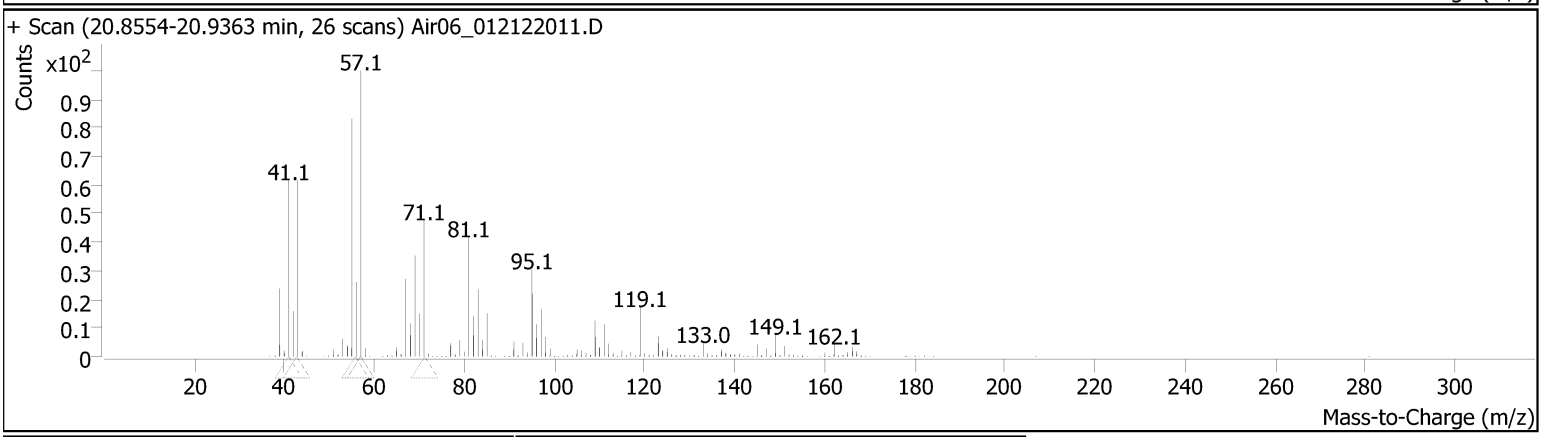



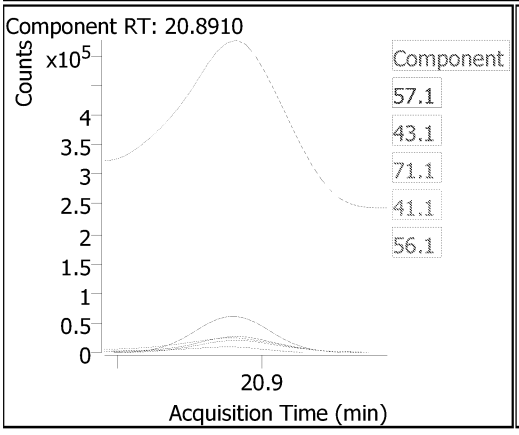



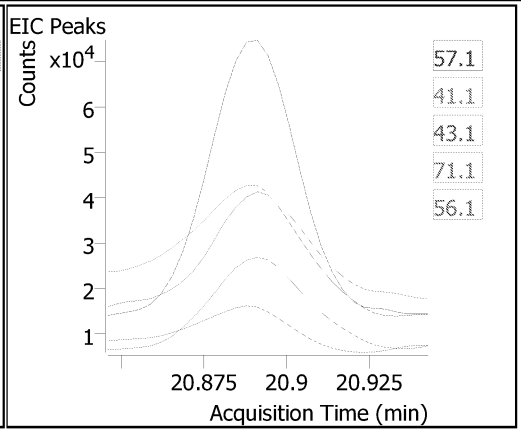
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.8910 | Undecane, 2,6-dimethyl- | 1757425.9 | 75.4 | 17301-23-4 | C13H28 | 3.665 |

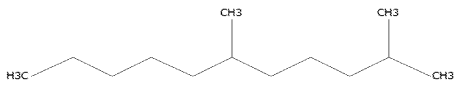


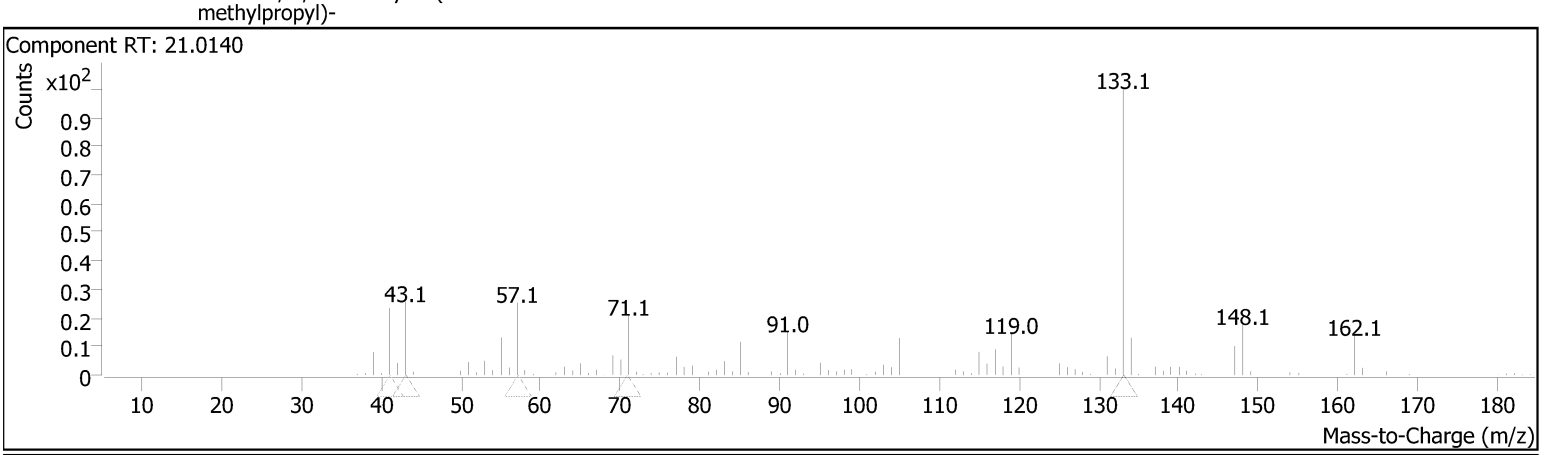



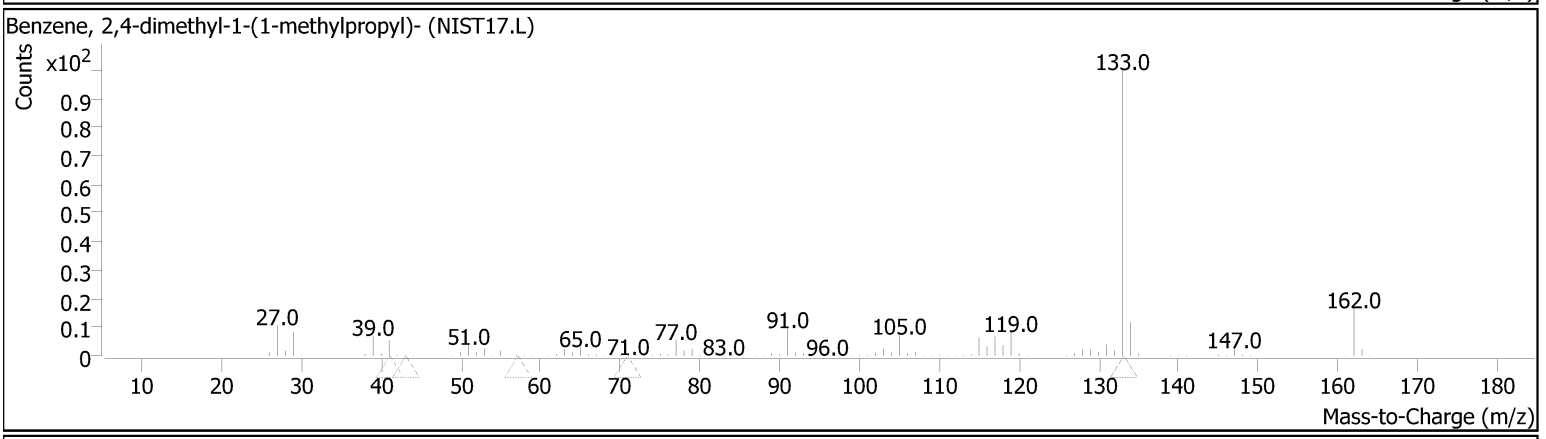



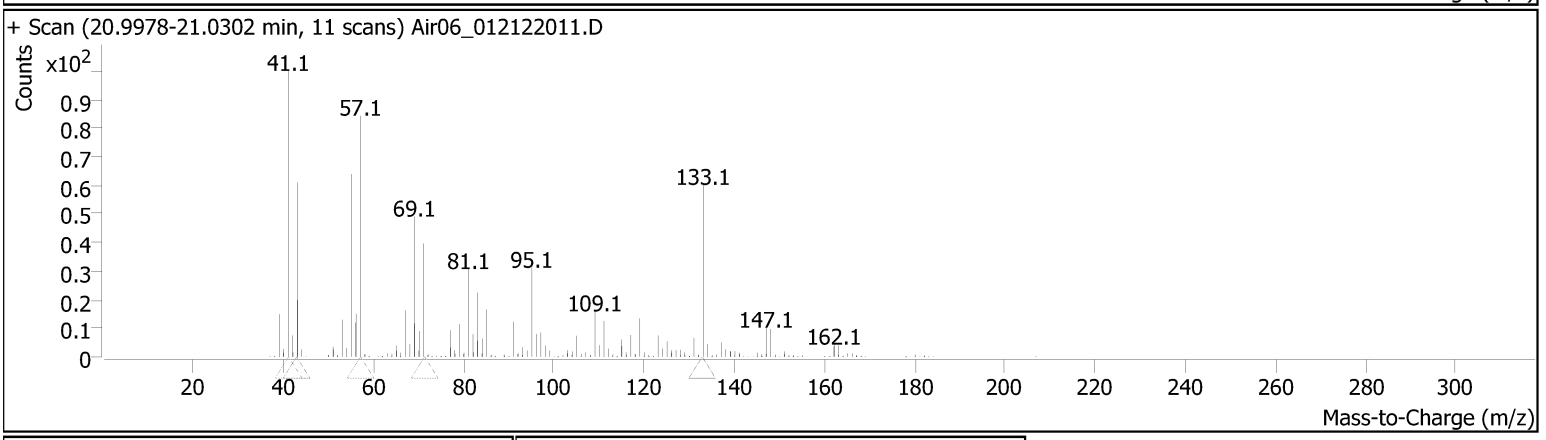



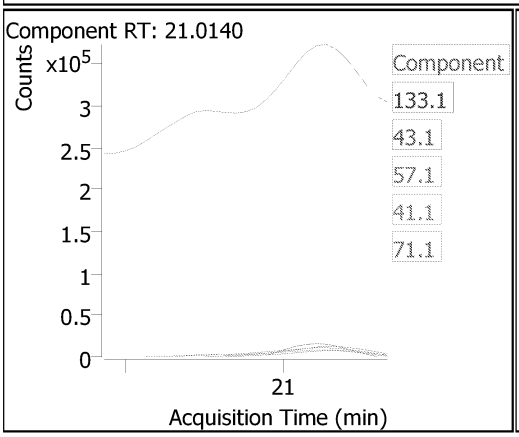



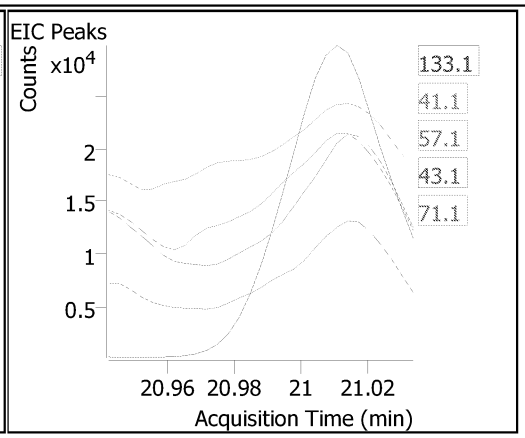
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.0140 | Benzene, 2,4-dimethyl-1-(1-methylpropyl)- | 1252910.1 | 80.6 | 1483-60-9 | C12H18 | 2.613 |

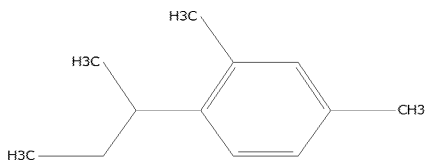


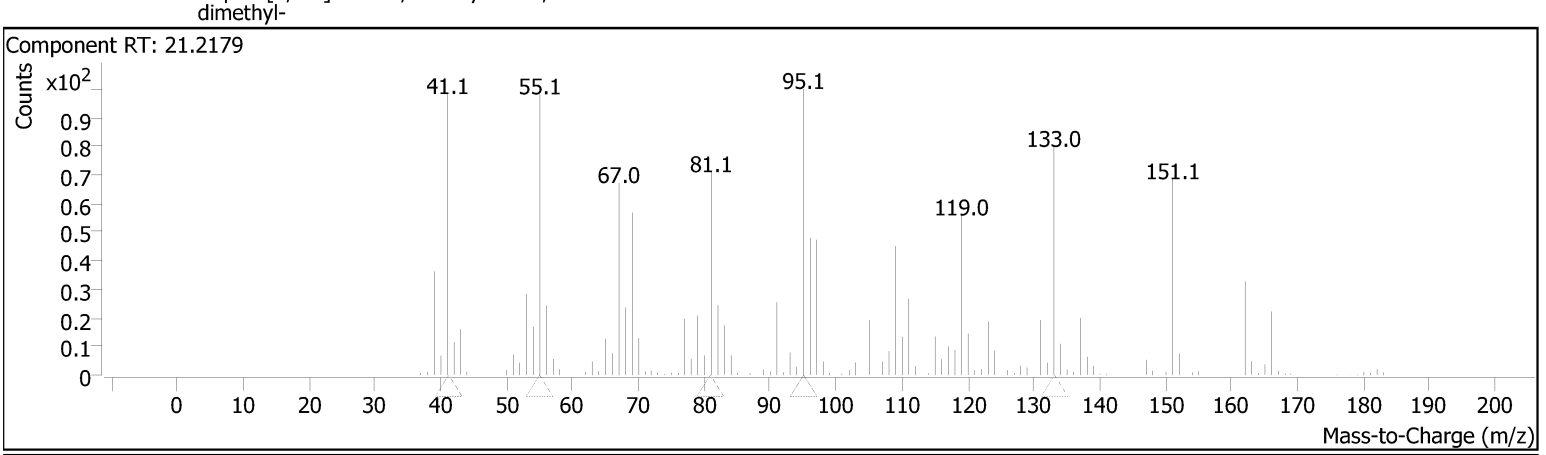



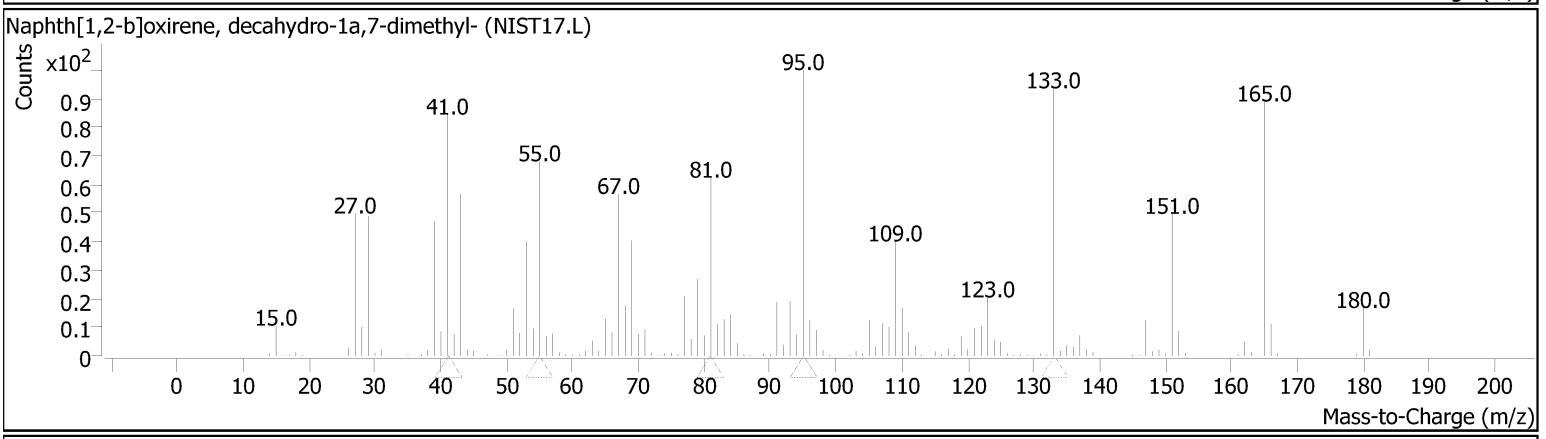



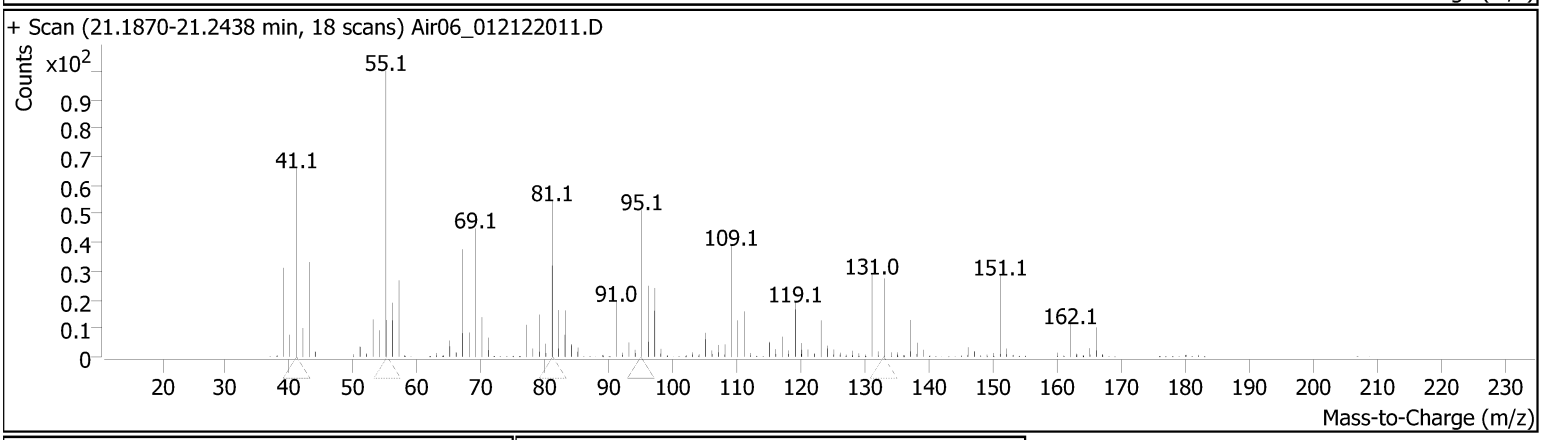



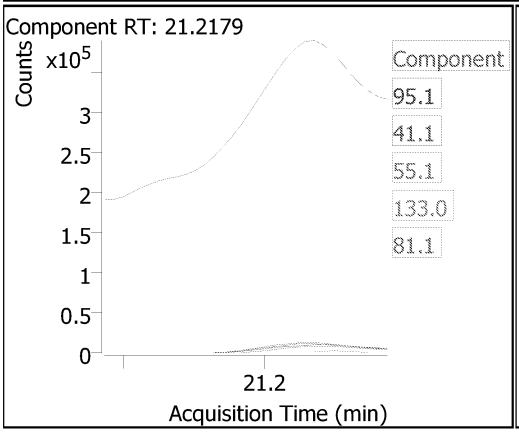



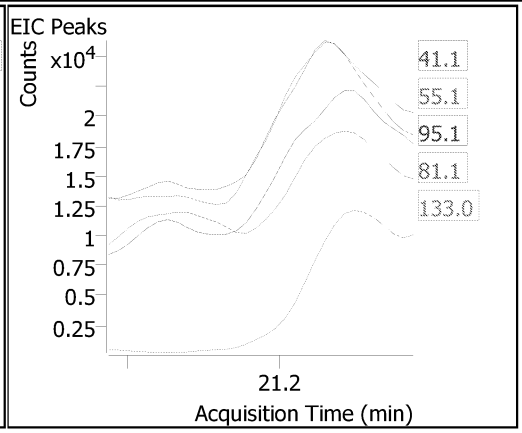
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.2179 | Naphth[1,2-b]oxirene, decahydro-1a,7-dimethyl- | 1288019.3 | 80.4 | 55976-08-4 | C12H20O | 2.686 |

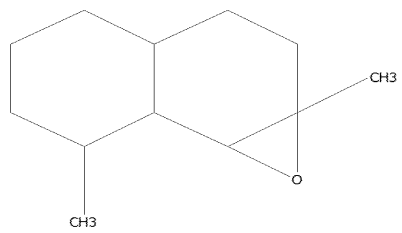


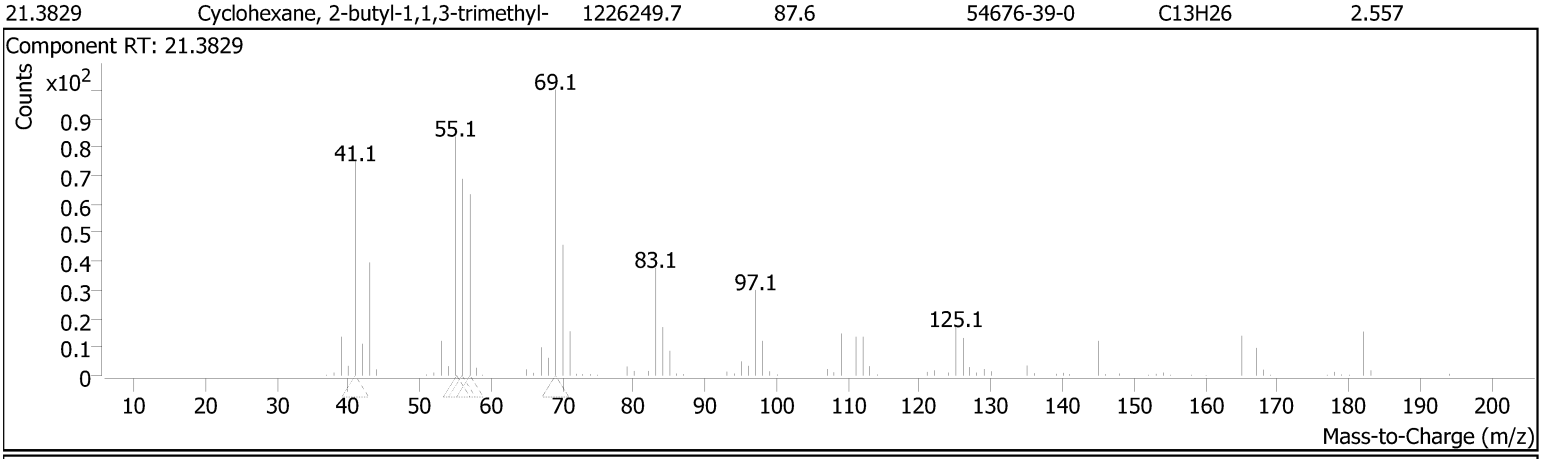



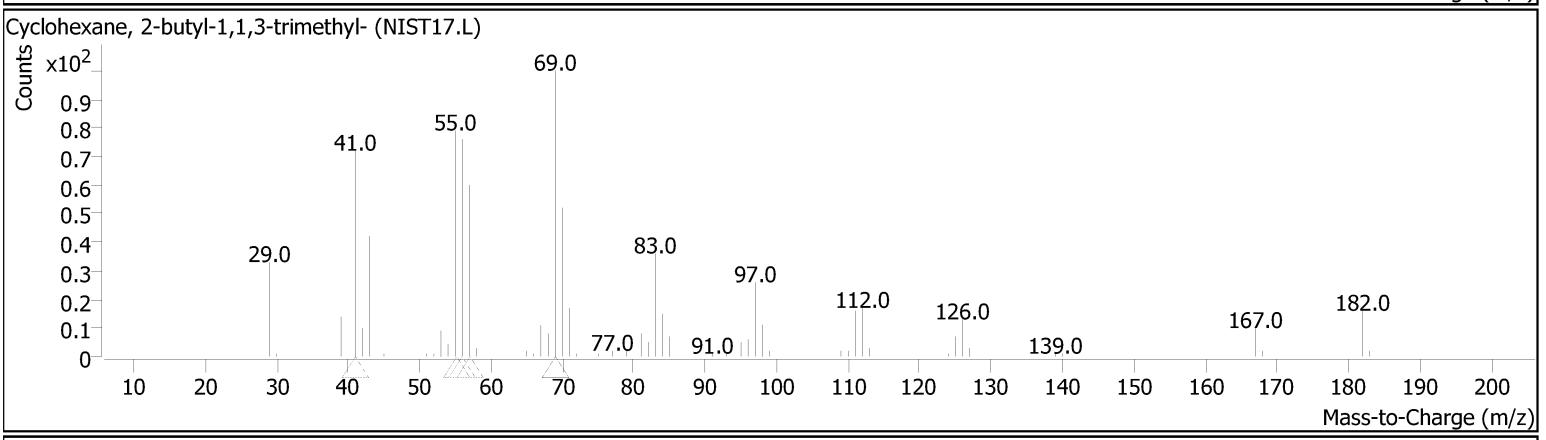



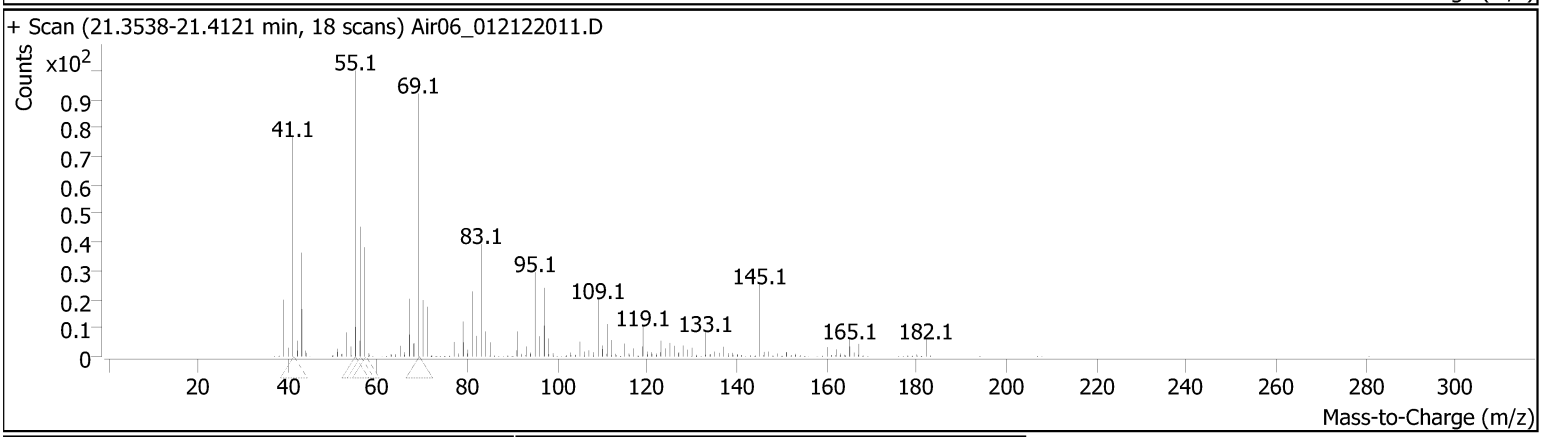



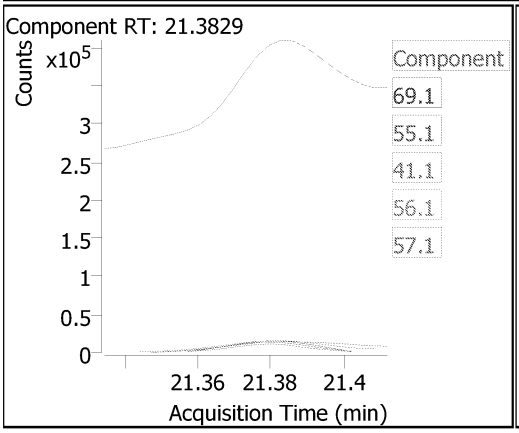



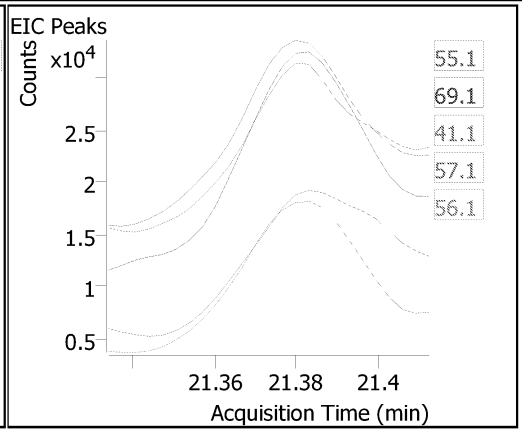
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.3829 | Cyclohexane, 2-butyl-1,1,3-trimethyl- | 1226249.7 | 87.6 | 54676-39-0 | C13H26 | 2.557 |

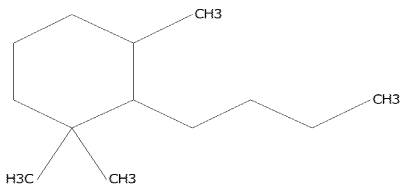


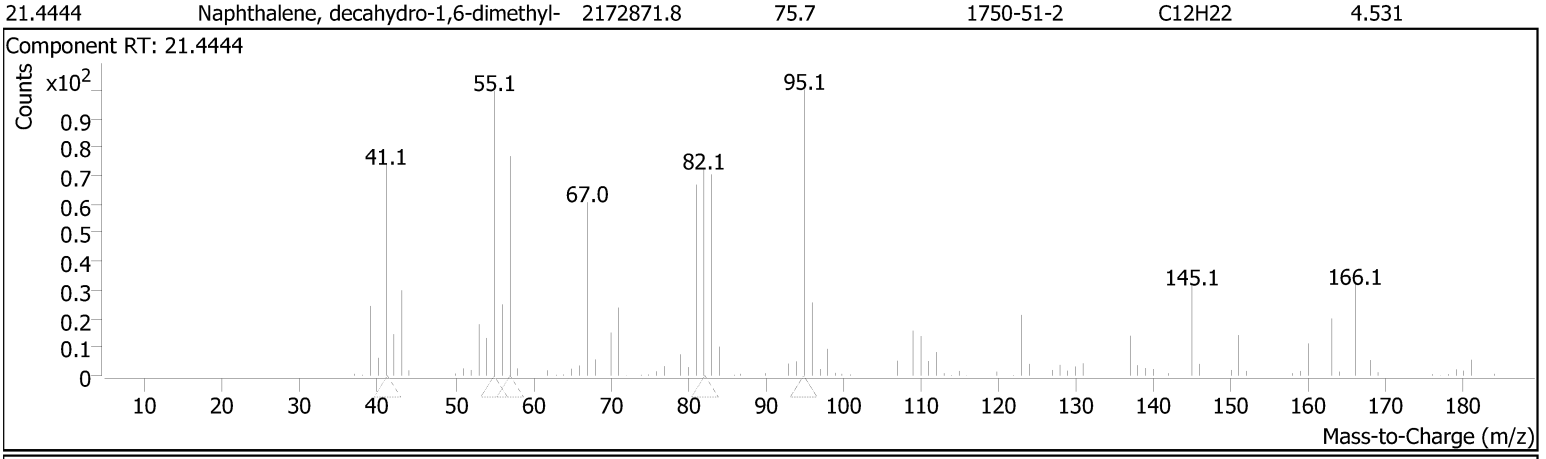



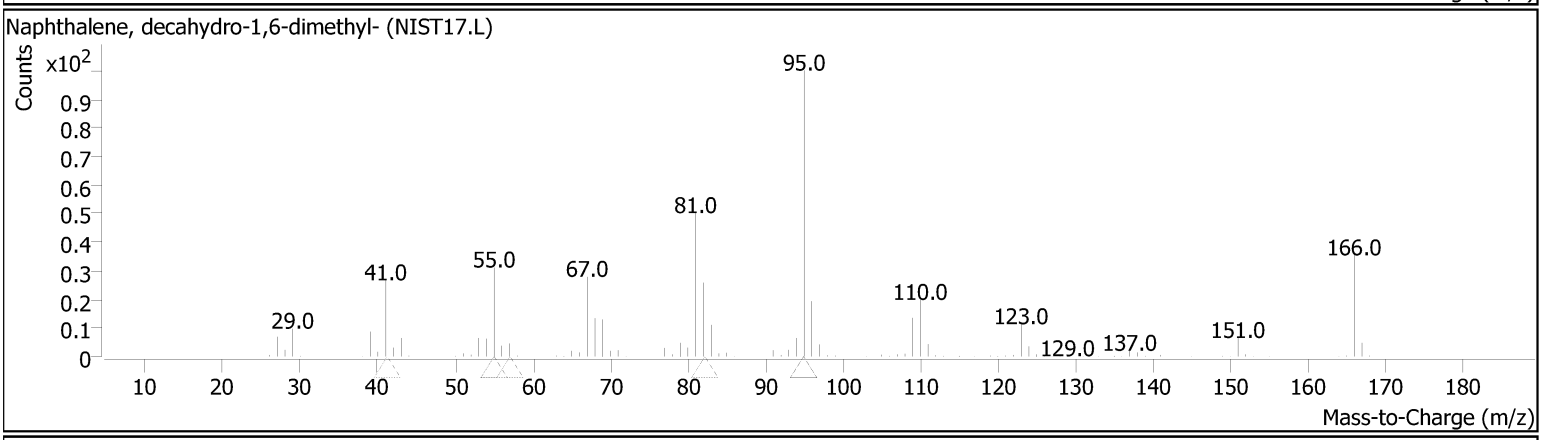



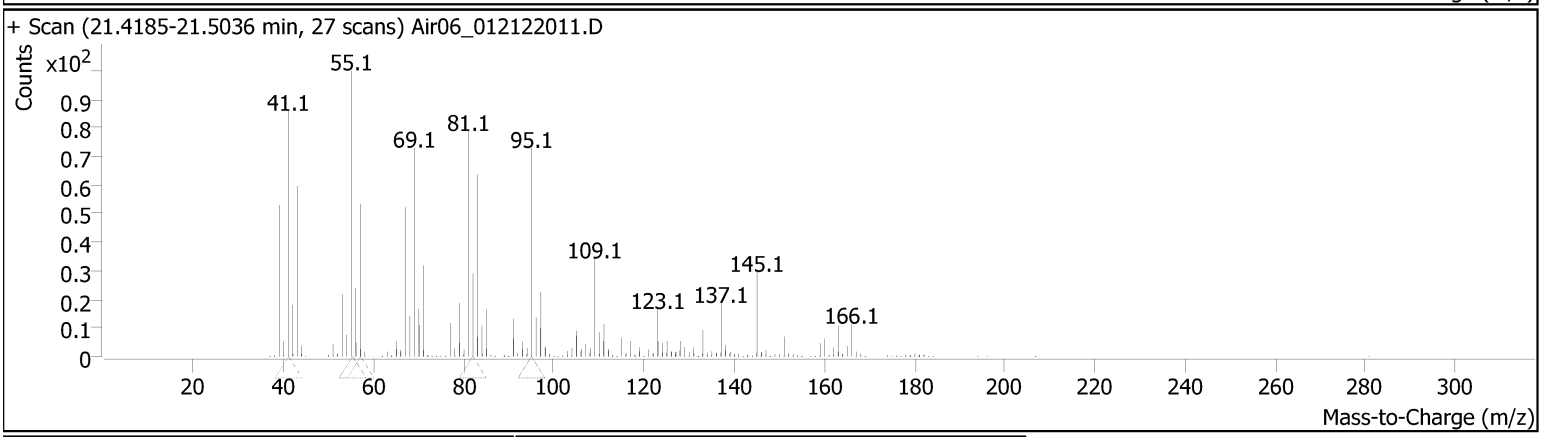



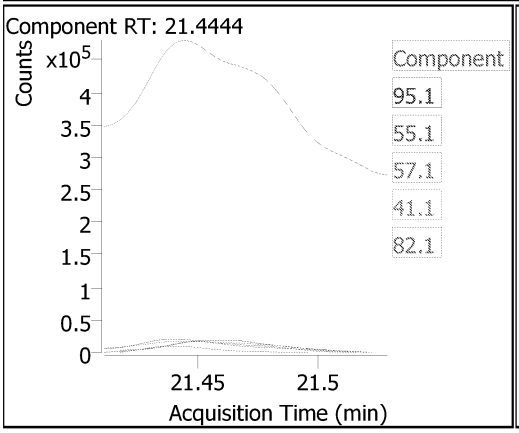



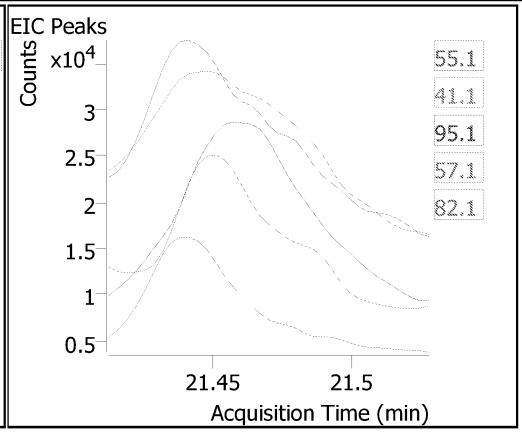
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.4444 | Naphthalene, decahydro-1,6-dimethyl- | 2172871.8 | 75.7 | 1750-51-2 | C12H22 | 4.531 |

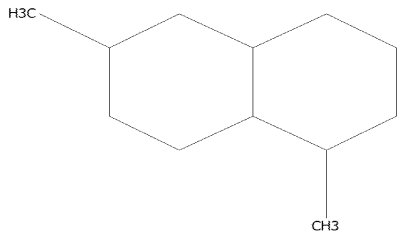


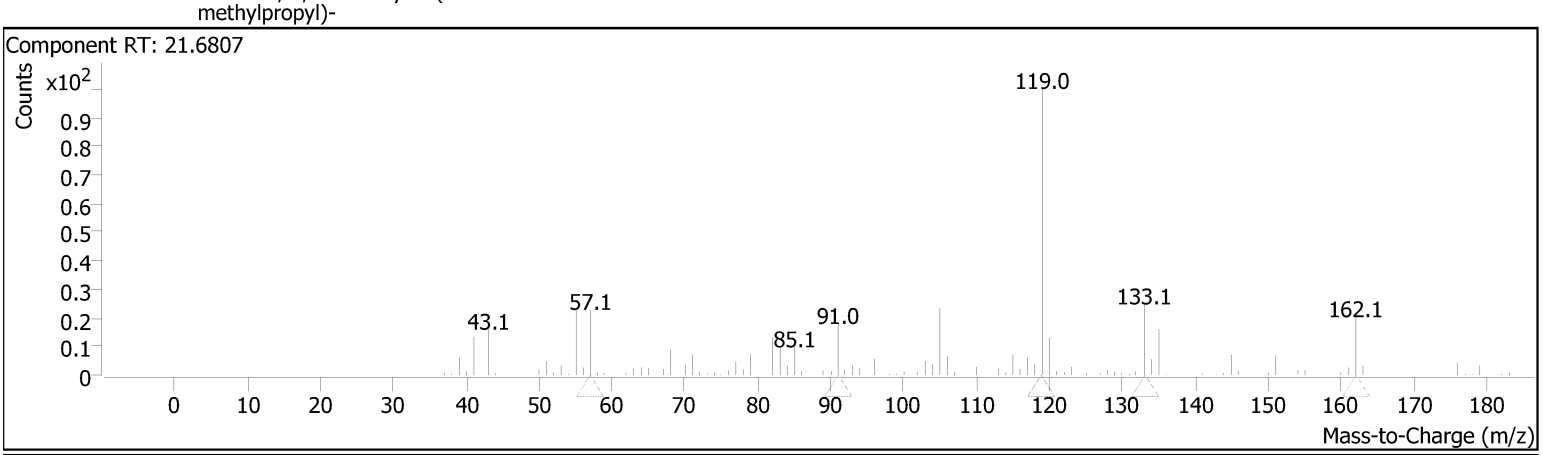



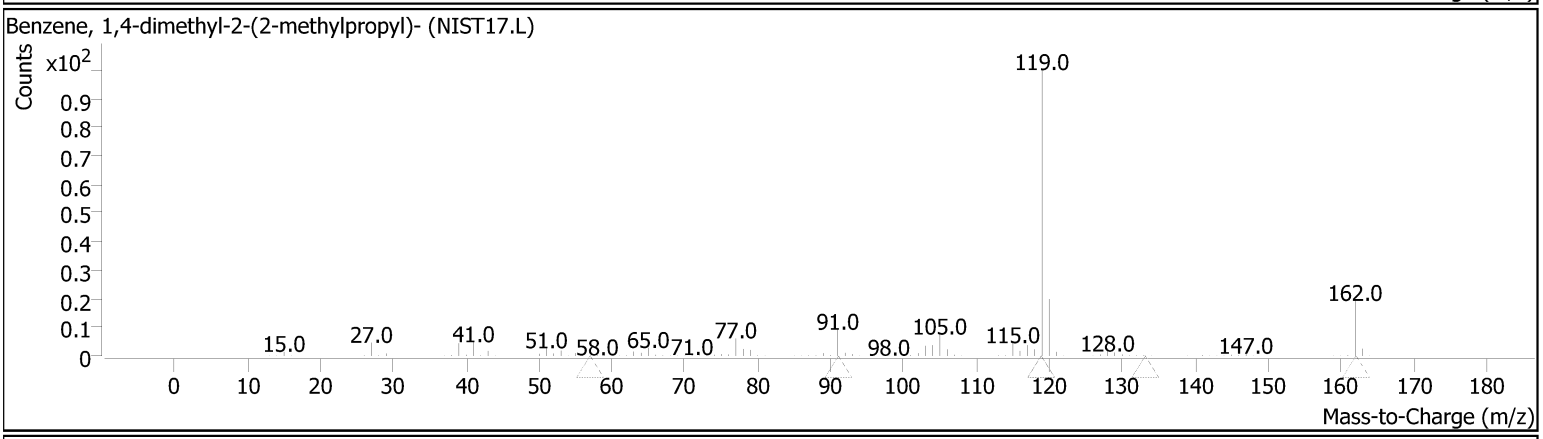



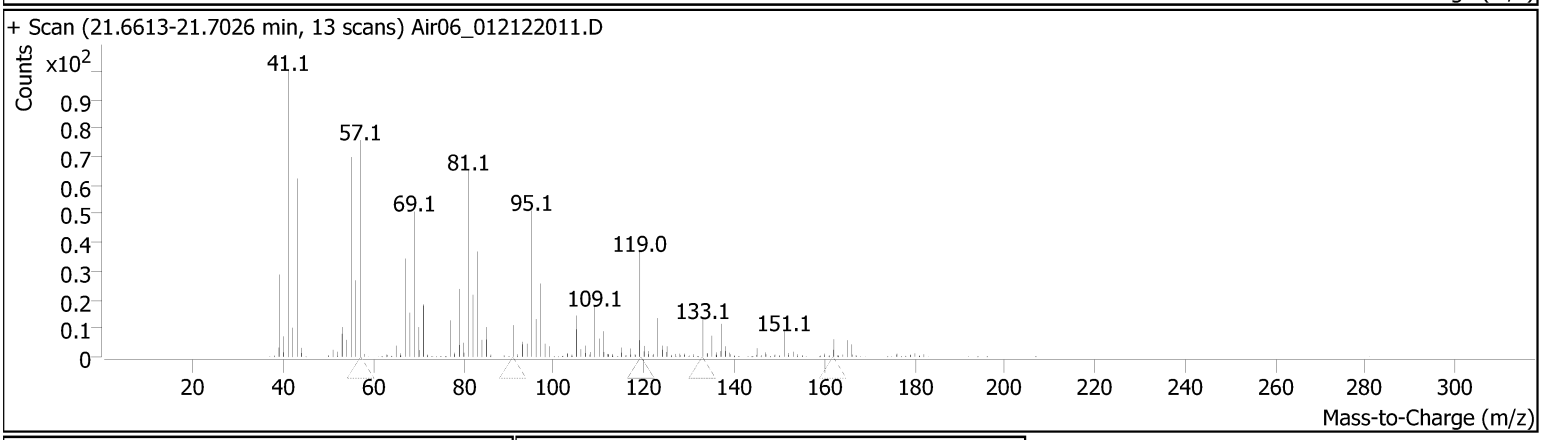



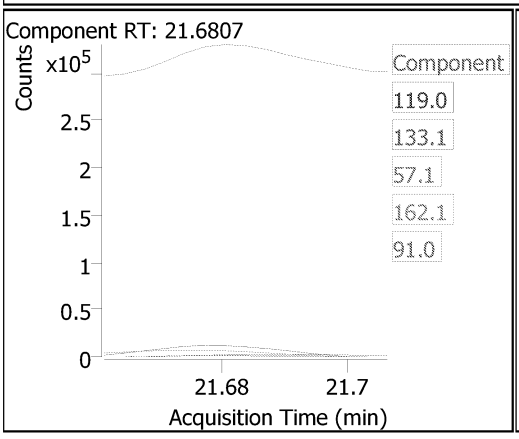



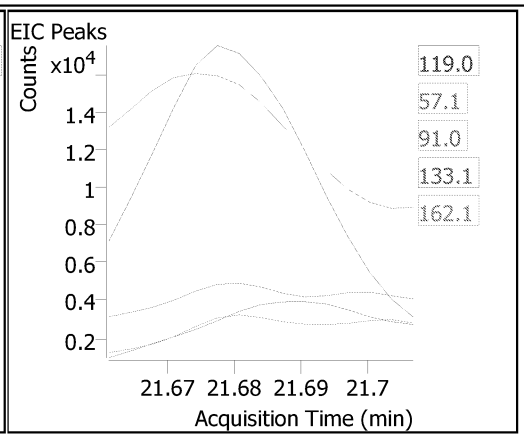
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.6807 | Benzene, 1,4-dimethyl-2-(2-methylpropyl)- | 648177.2 | 72.7 | 55669-88-0 | C12H18 | 1.352 |

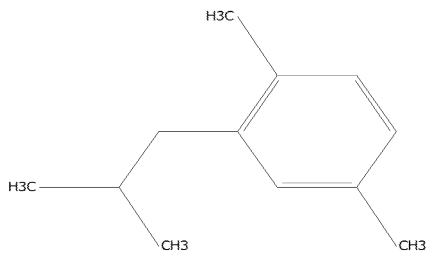


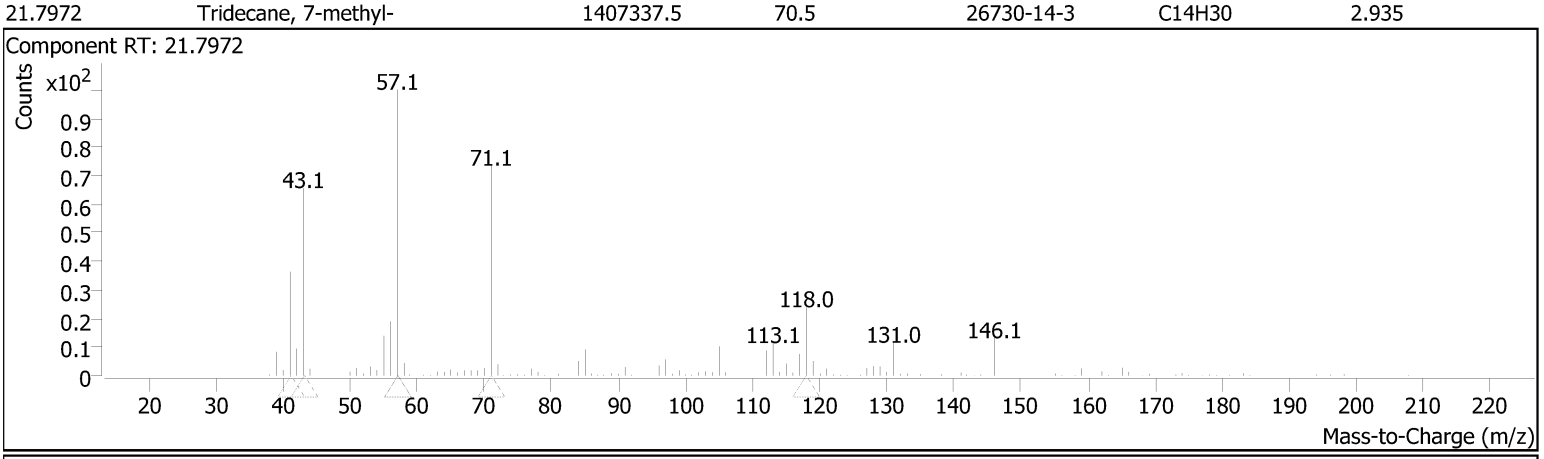



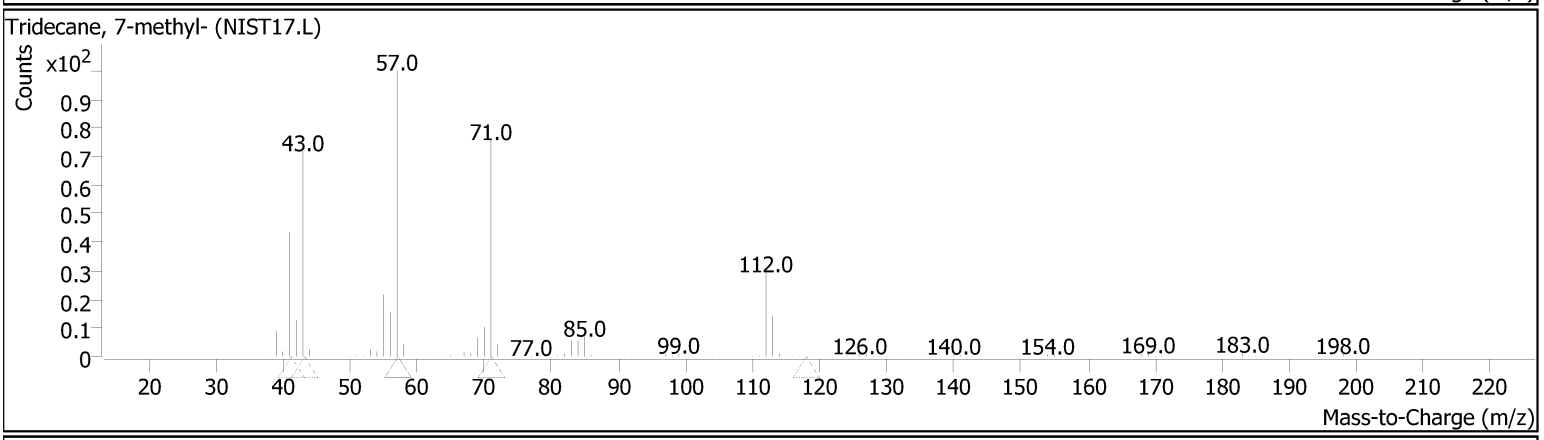



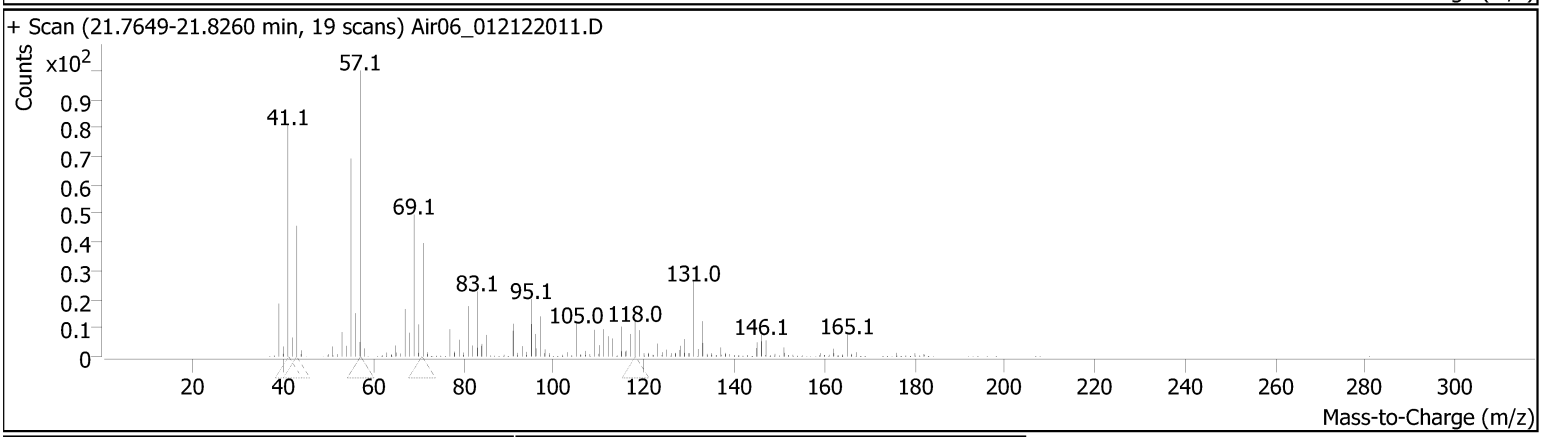



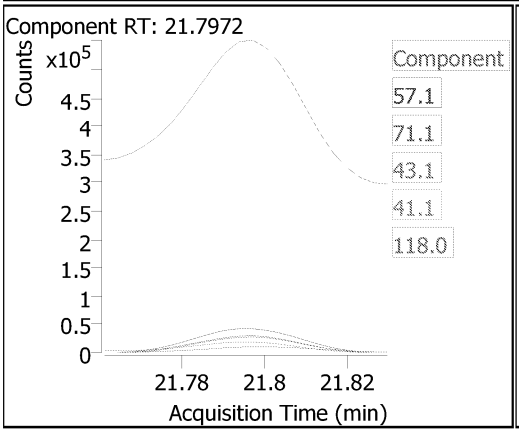



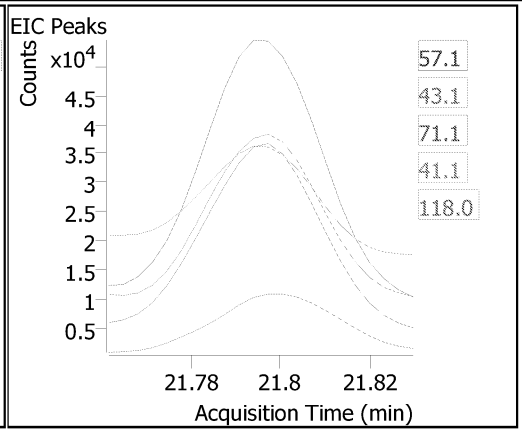
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7972 | Tridecane, 7-methyl- | 1407337.5 | 70.5 | 26730-14-3 | C14H30 | 2.935 |

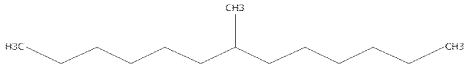


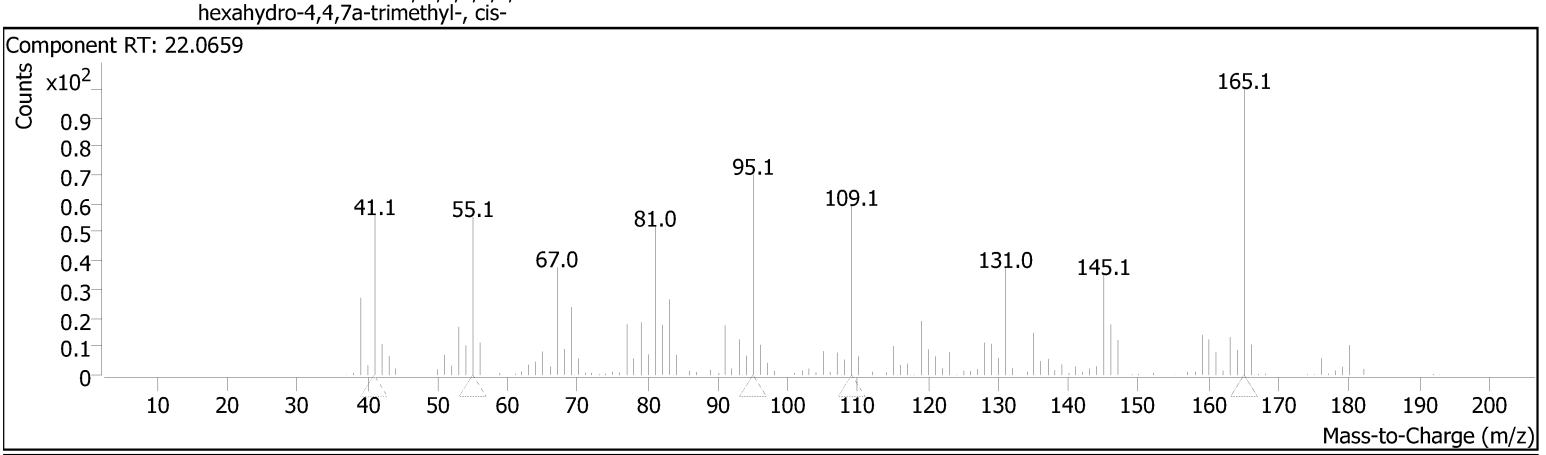



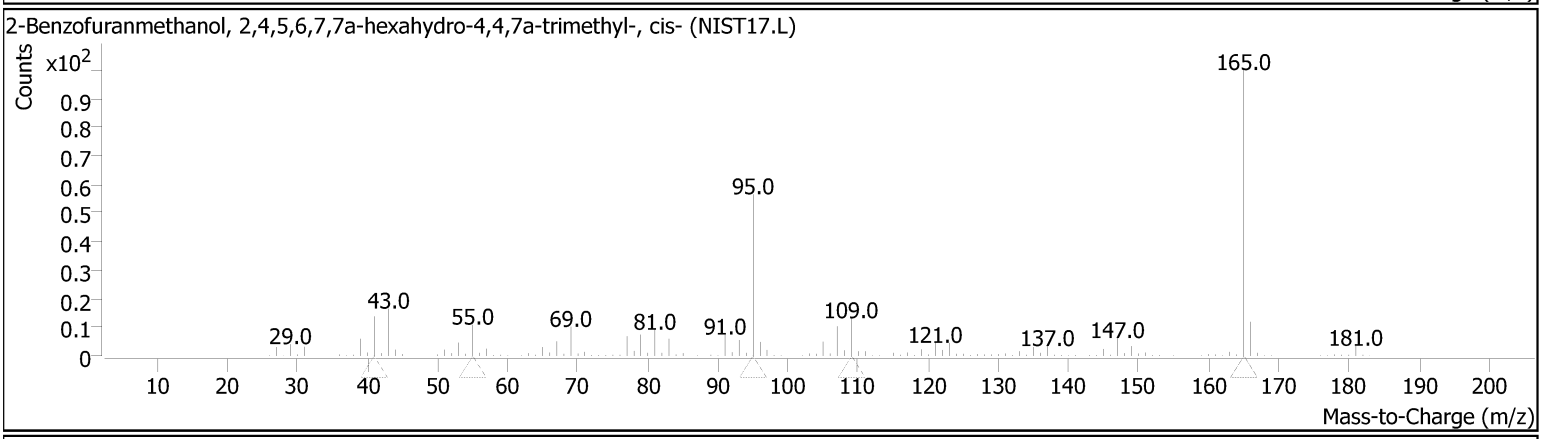



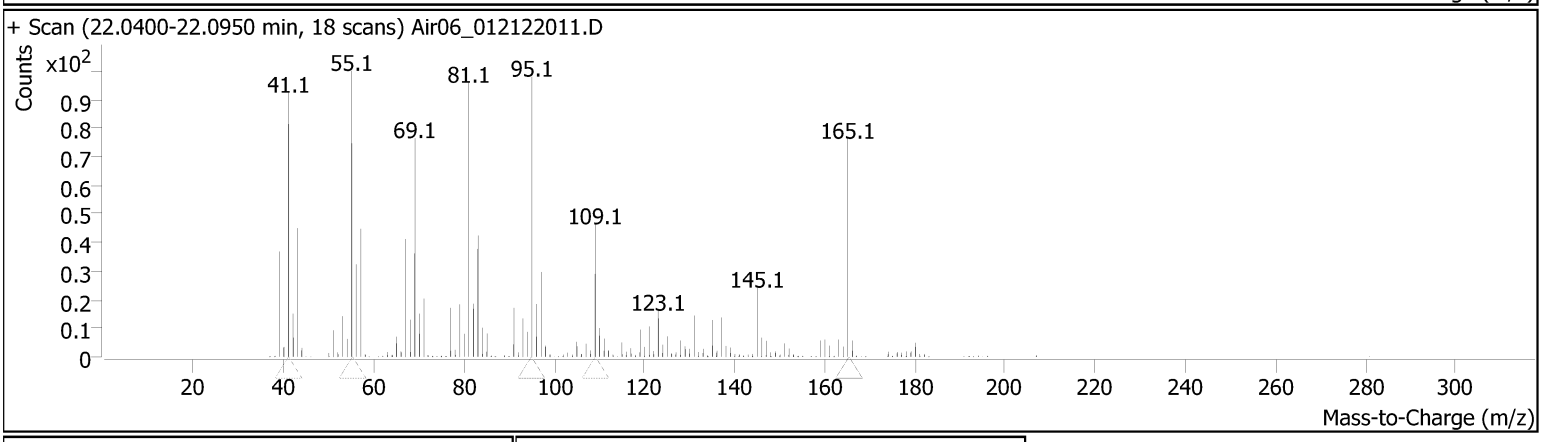



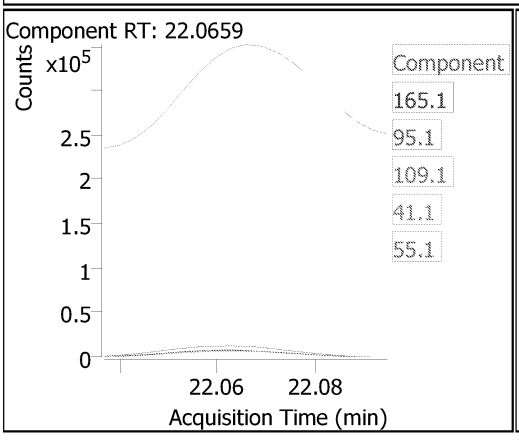



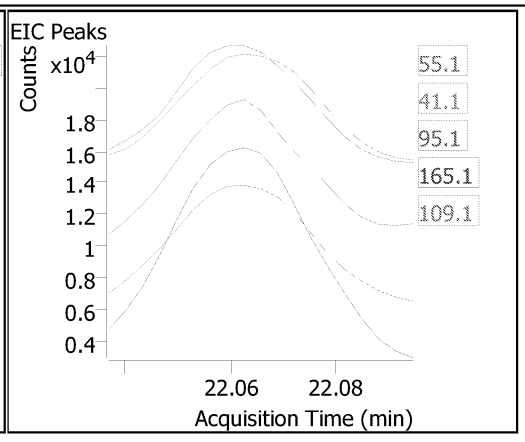
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.0659 | 2-Benzofuranmethanol, 2,4,5,6,7,7a-hexahydro-4,4,7a-trimethyl-, cis- | 777297.0 | 79.5 | 77384-15-7 | C12H20O2 | 1.621 |

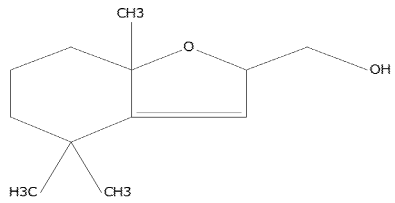


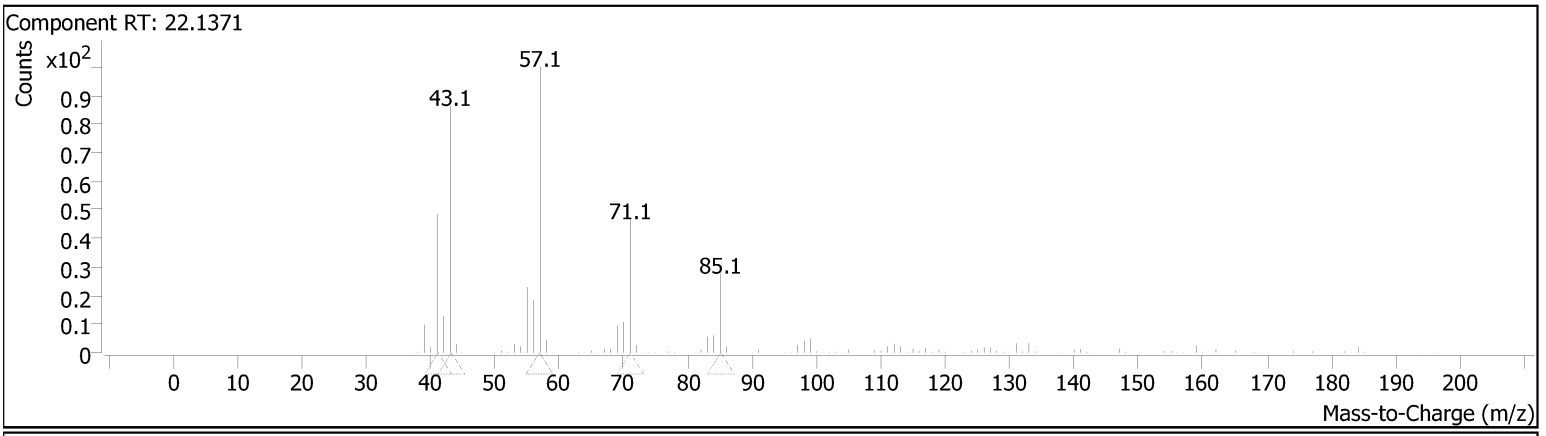



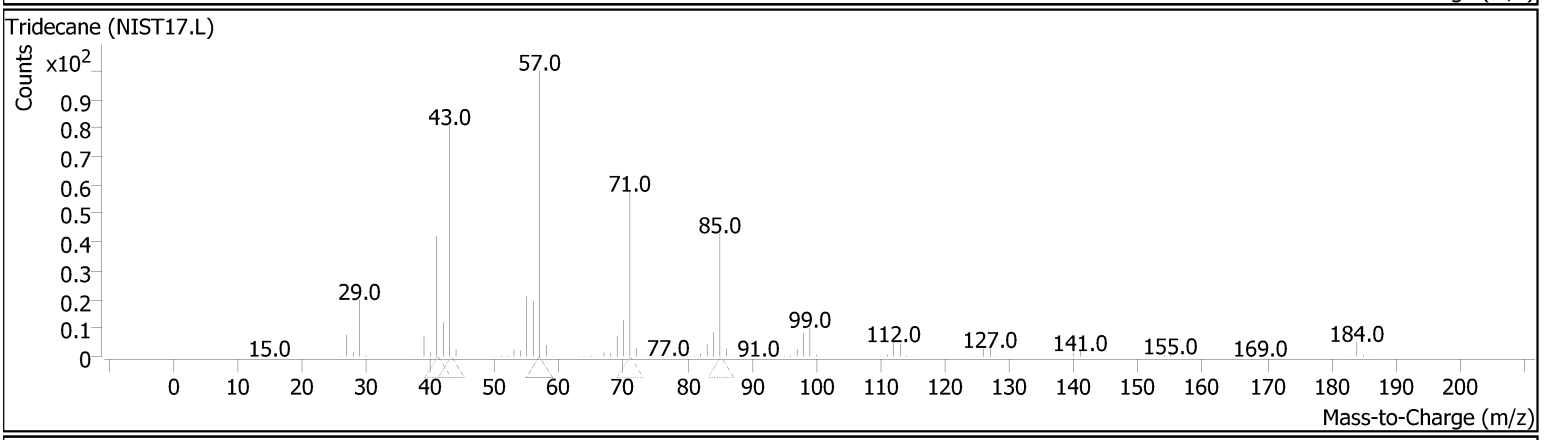



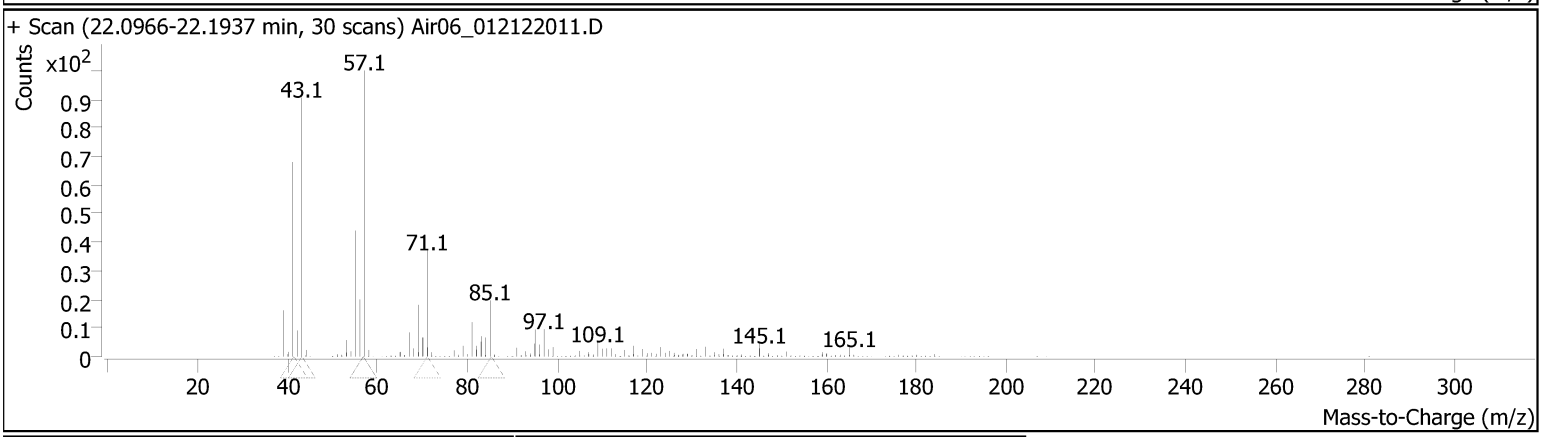



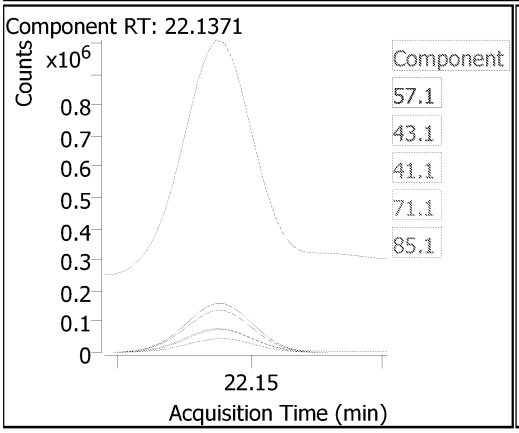



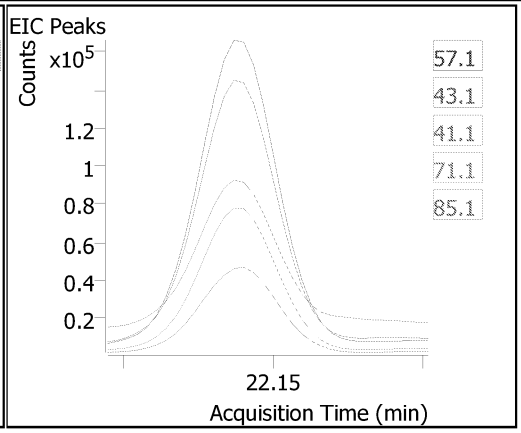
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.1371 | Tridecane | 2686463.4 | 89.8 | 629-50-5 | C13H28 | 5.602 |

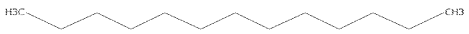


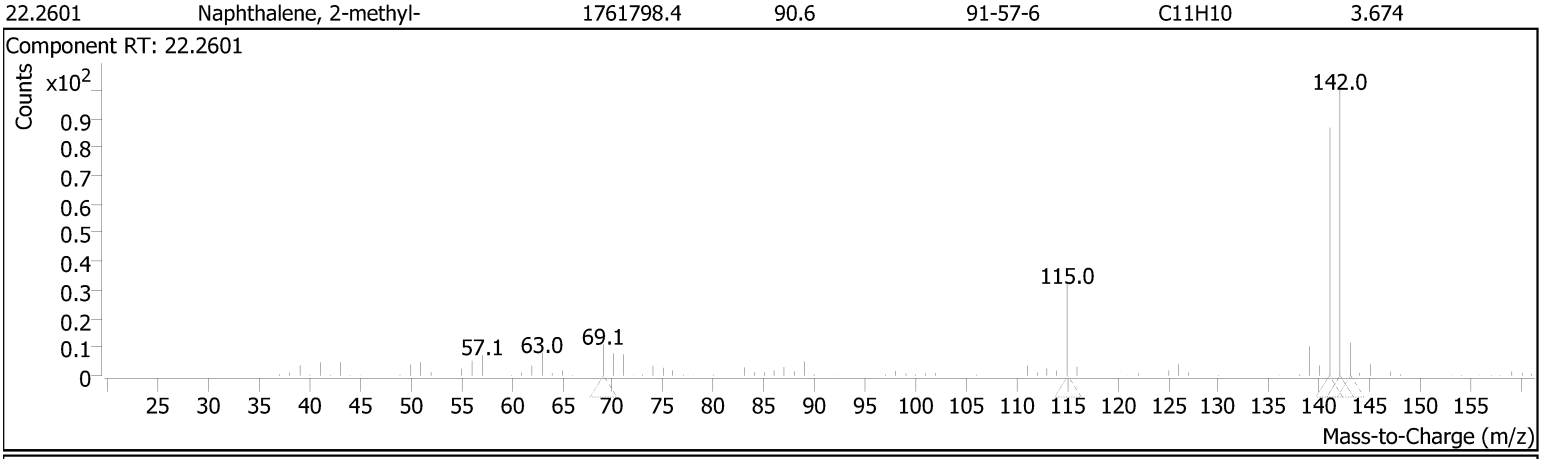



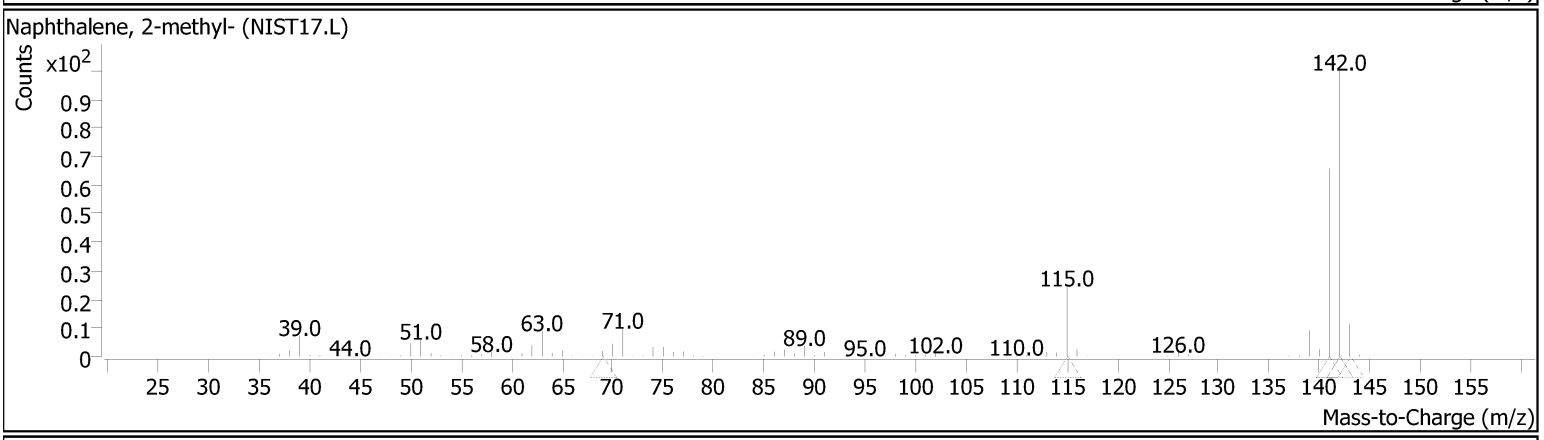



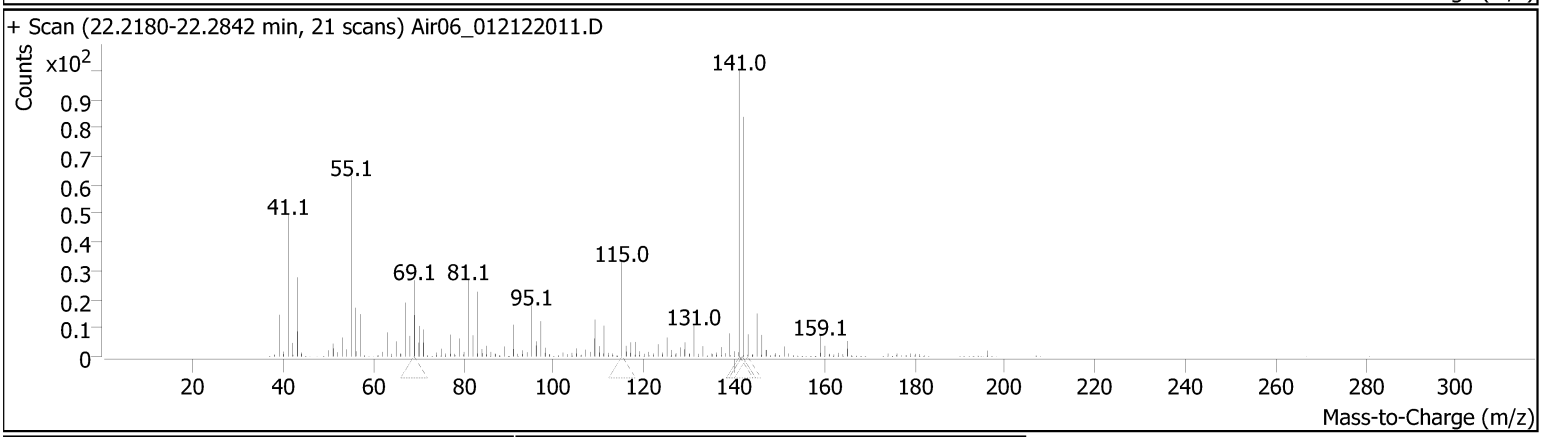



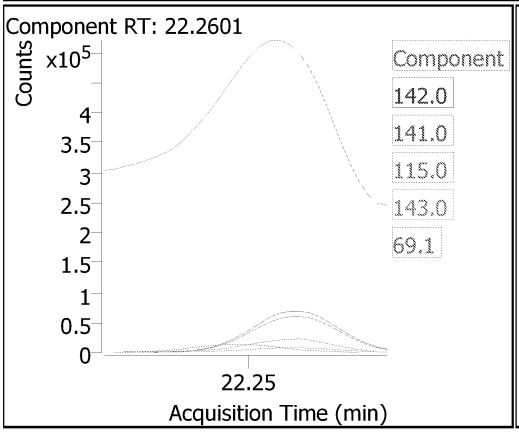



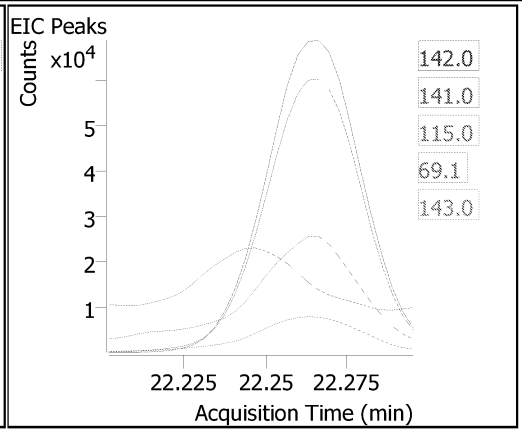
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.2601 | Naphthalene, 2-methyl- | 1761798.4 | 90.6 | 91-57-6 | C11H10 | 3.674 |

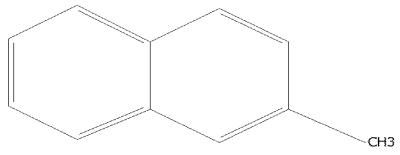


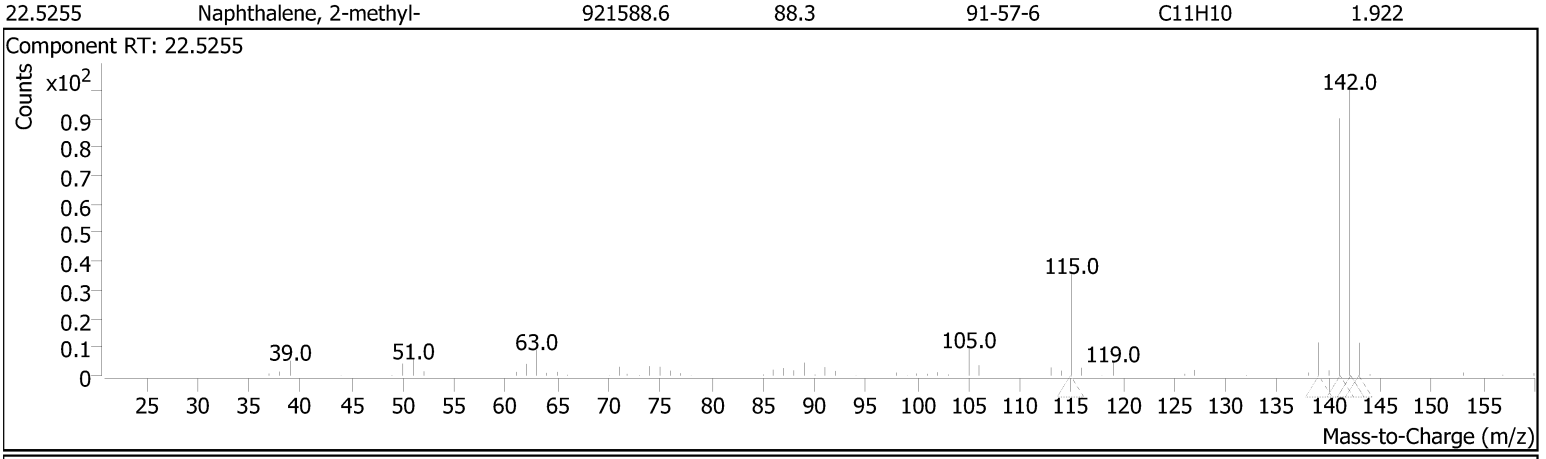



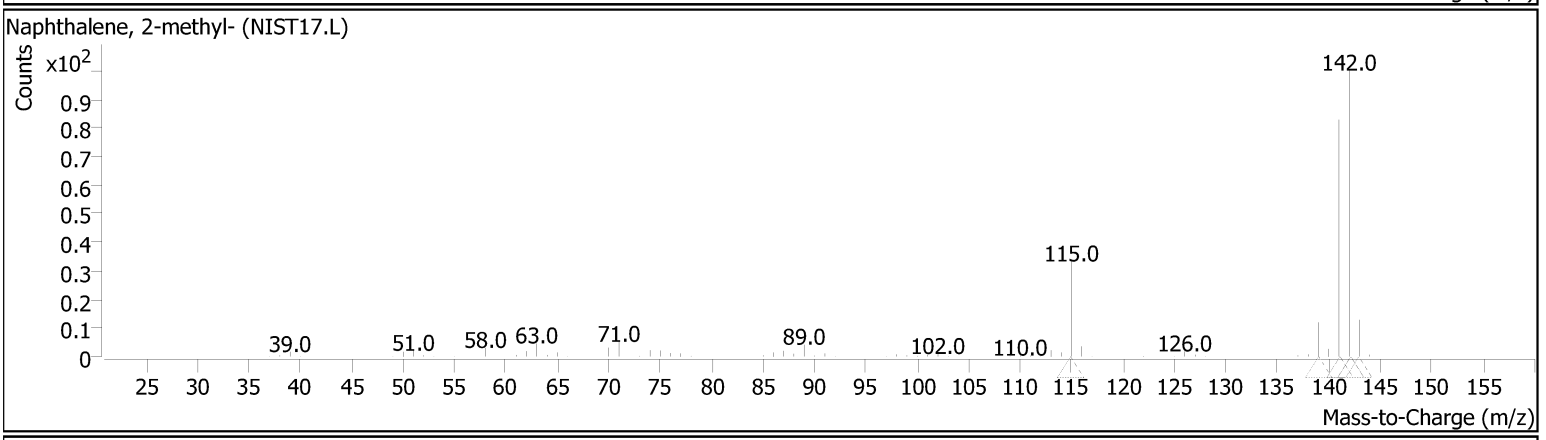



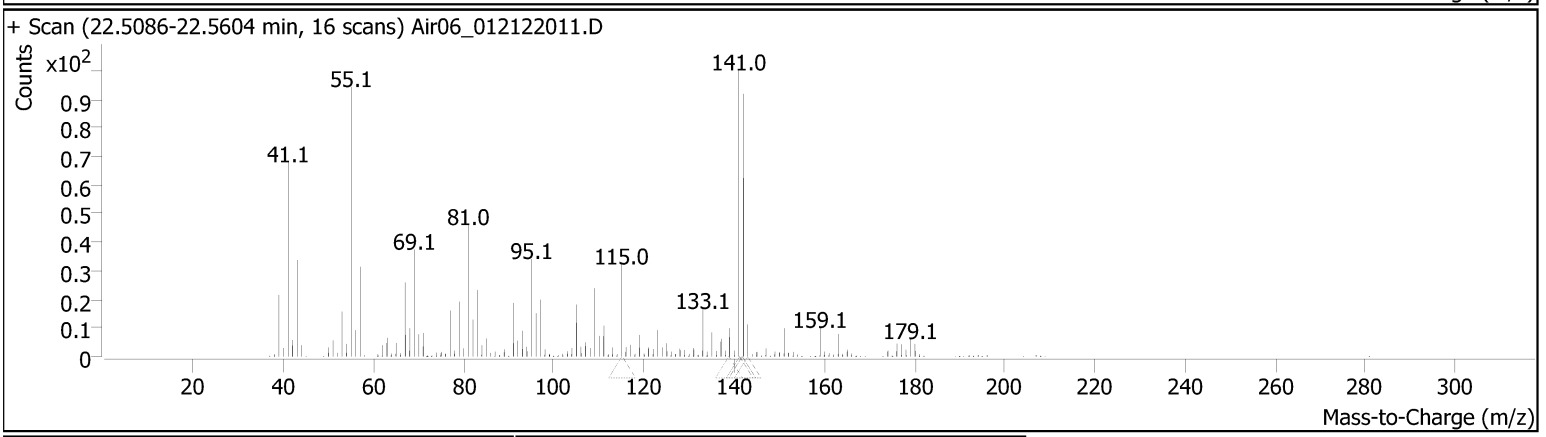



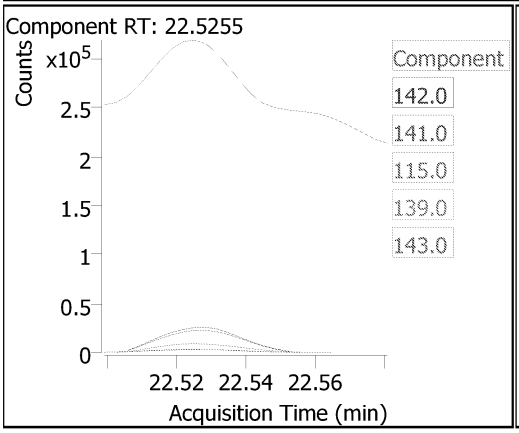



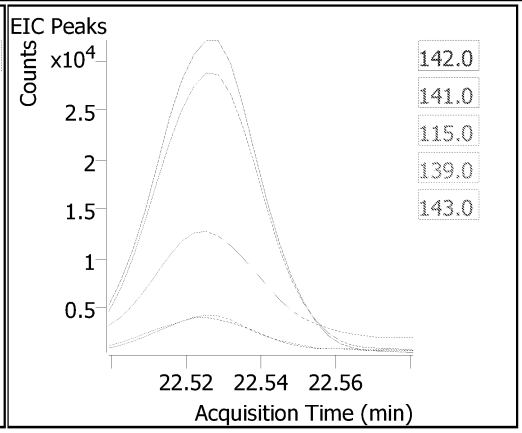
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.5255 | Naphthalene, 2-methyl- | 921588.6 | 88.3 | 91-57-6 | C11H10 | 1.922 |

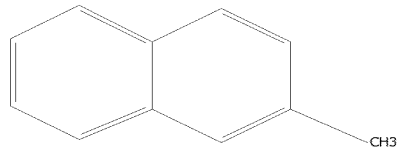


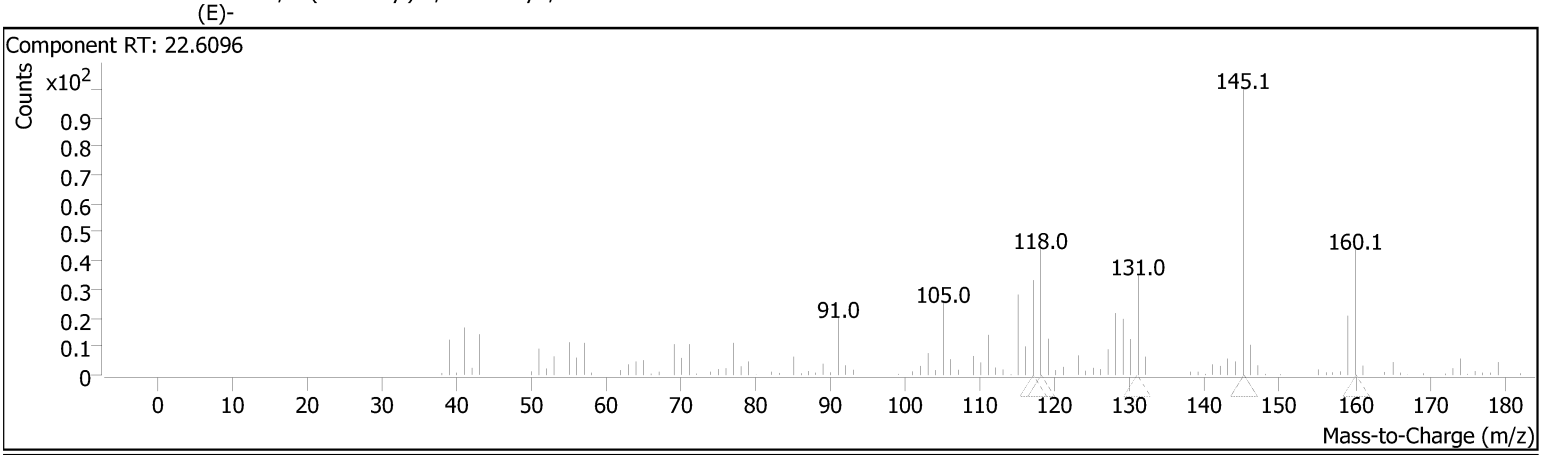



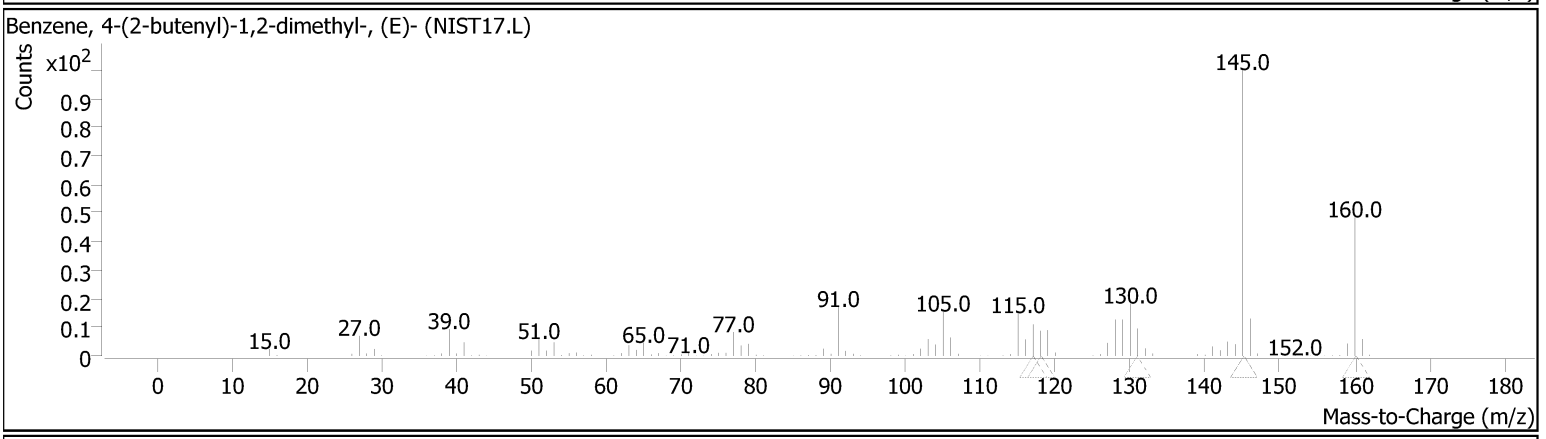



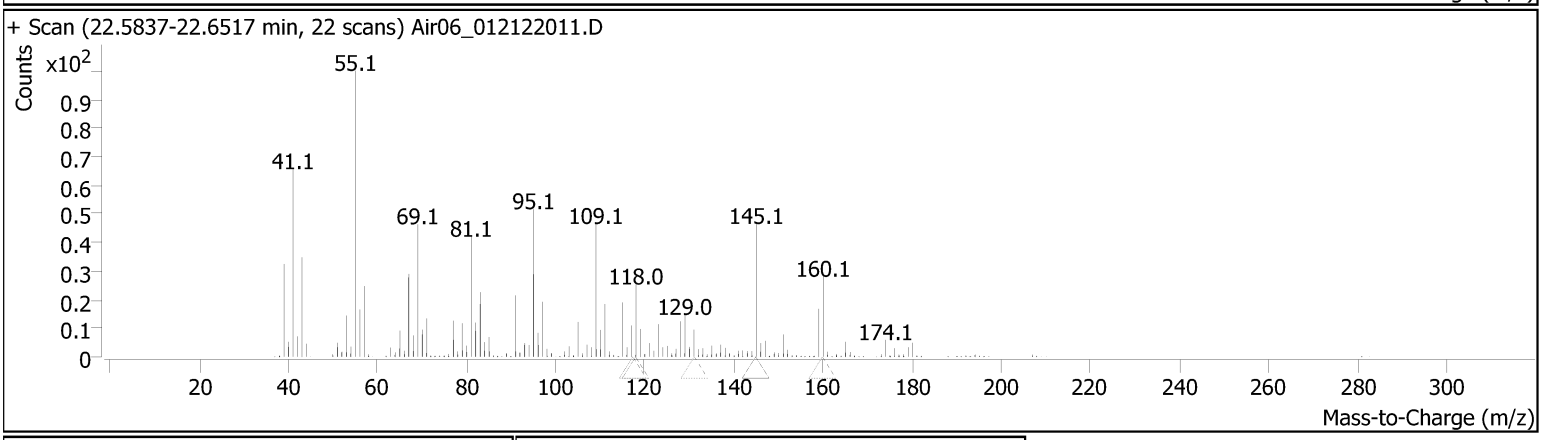



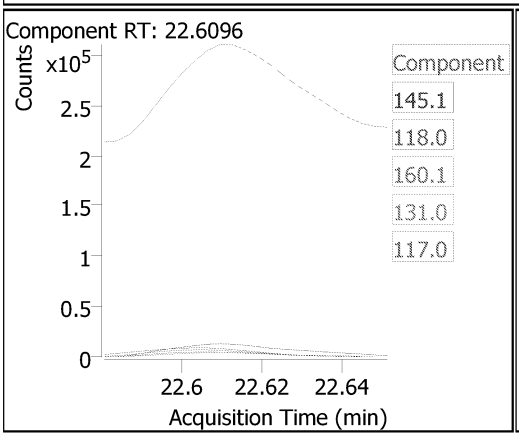



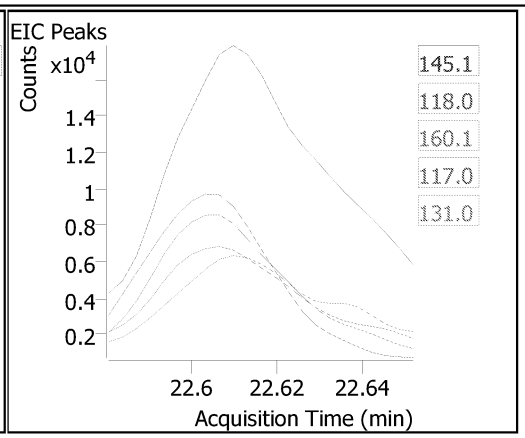
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.6096 | Benzene, 4-(2-butenyl)-1,2-dimethyl-, (E)- | 806197.1 | 85.1 | 54340-86-2 | C12H16 | 1.681 |

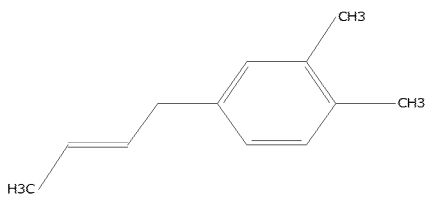


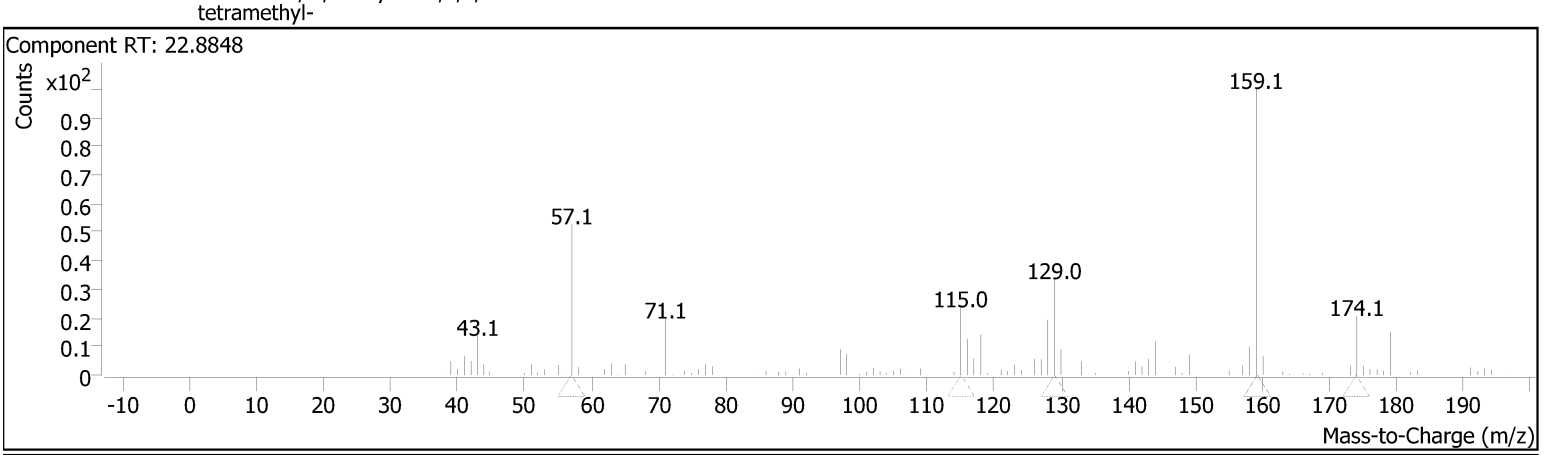



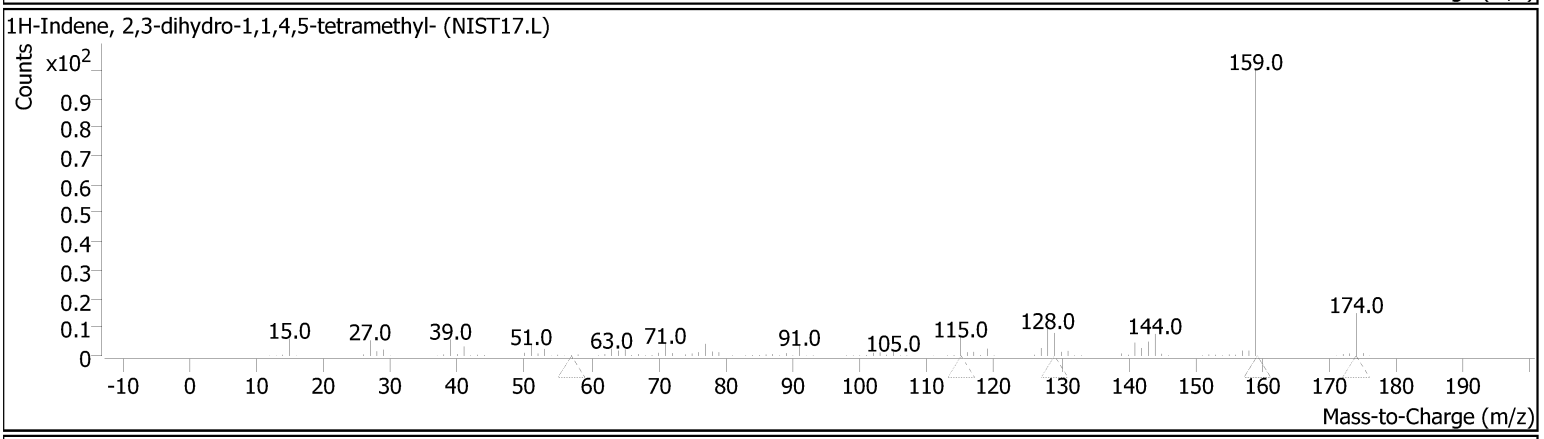



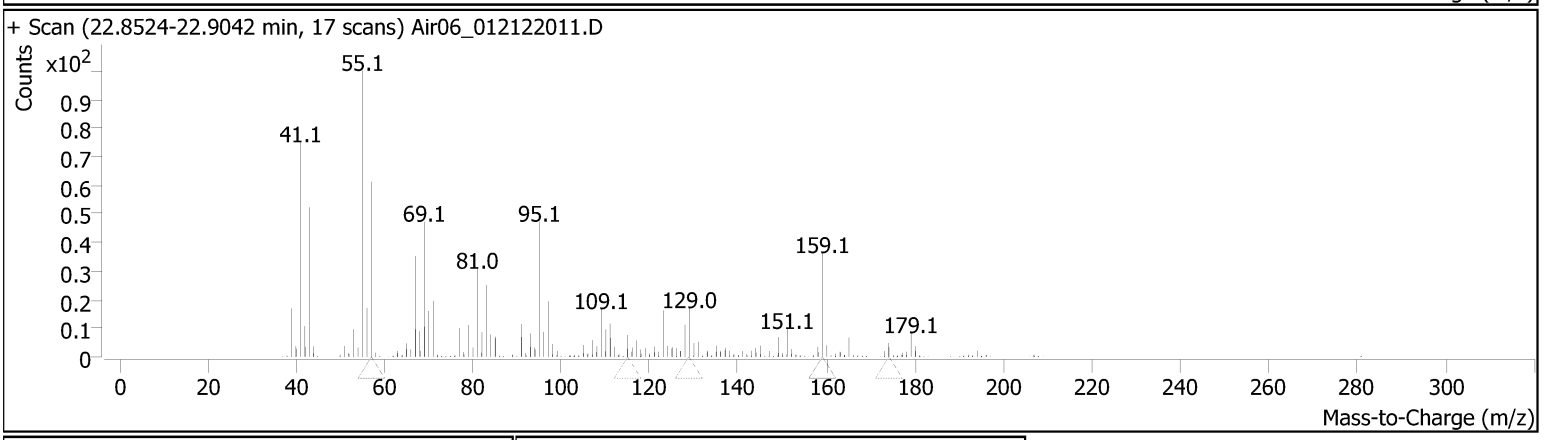



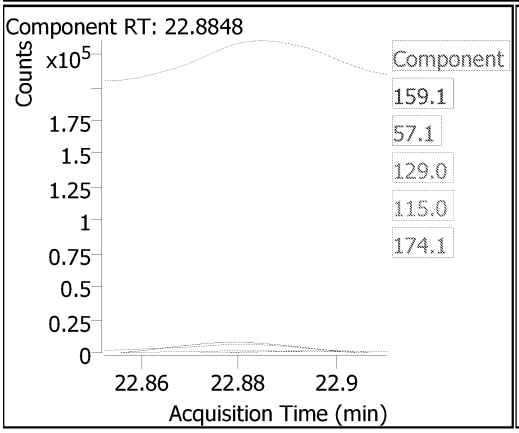



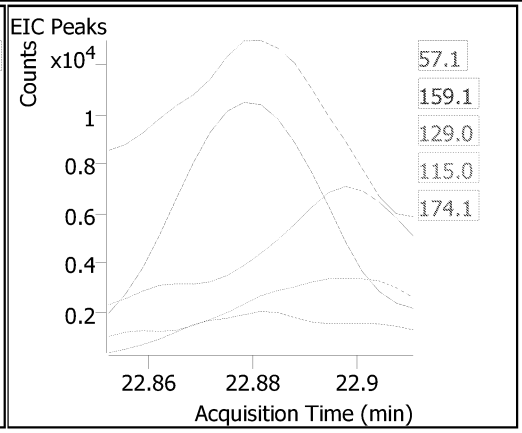
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.8848 | 1H-Indene, 2,3-dihydro-1,1,4,5-tetramethyl- | 508954.0 | 73.4 | 16204-57-2 | C13H18 | 1.061 |

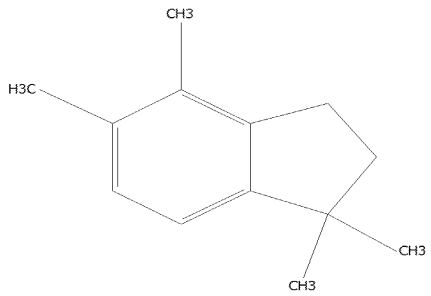


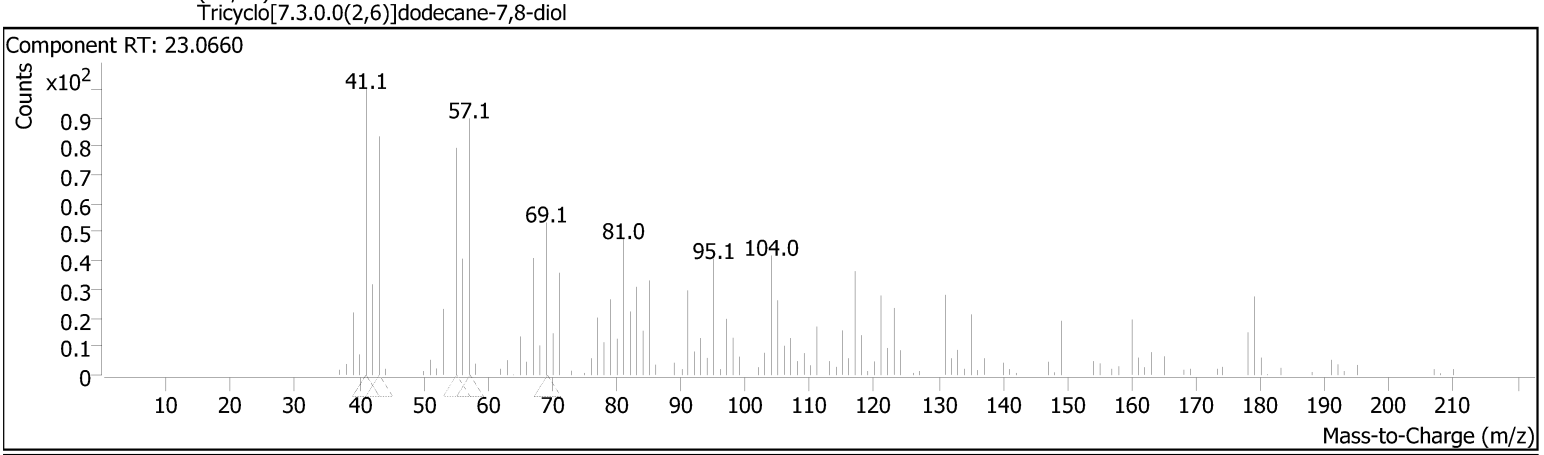



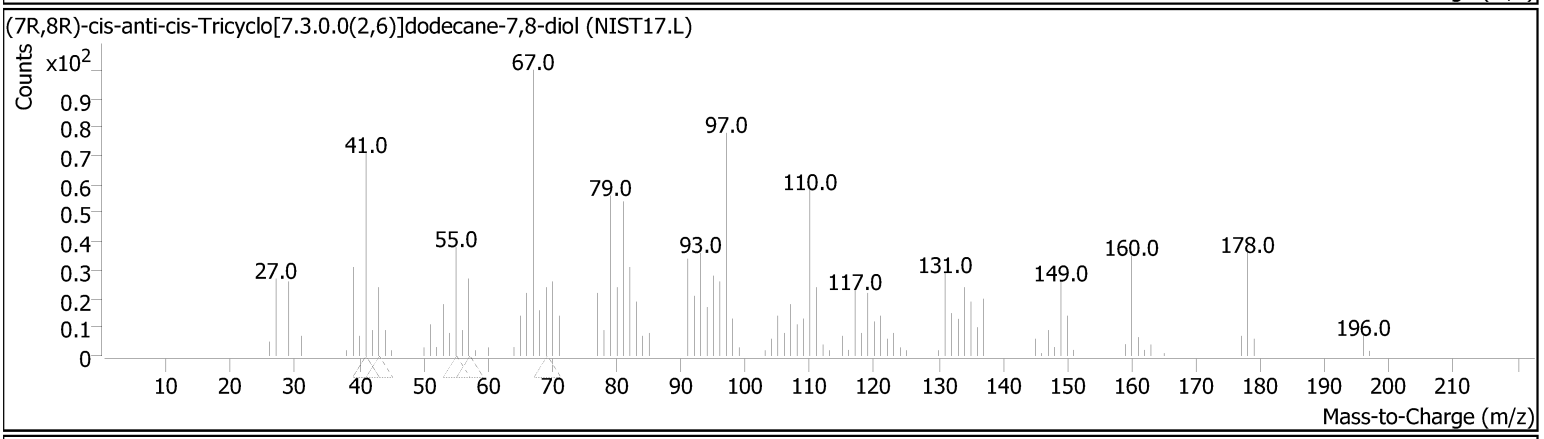



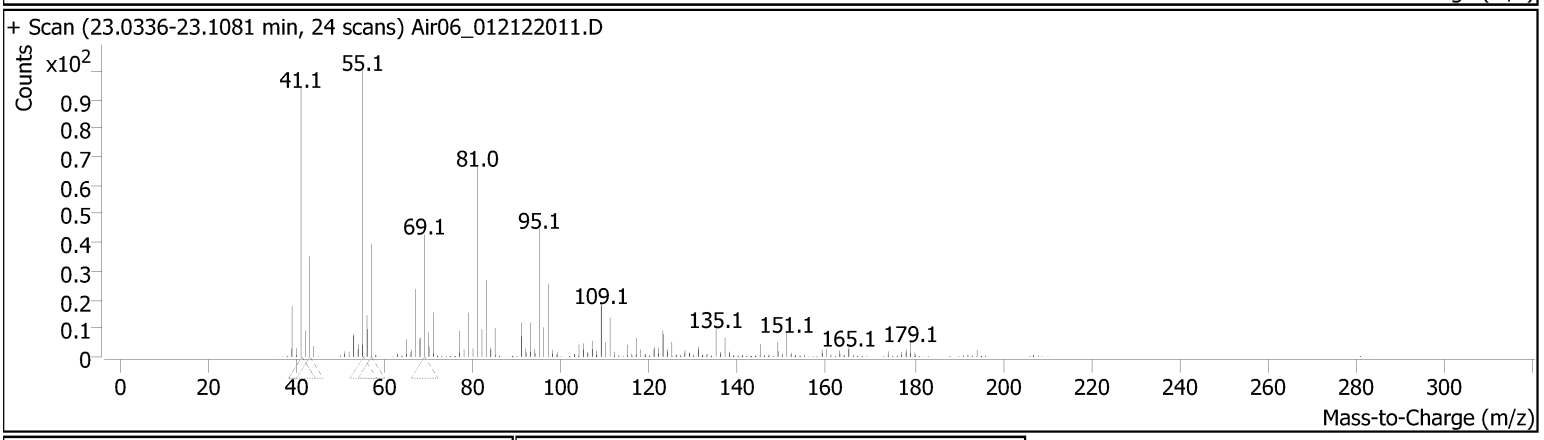



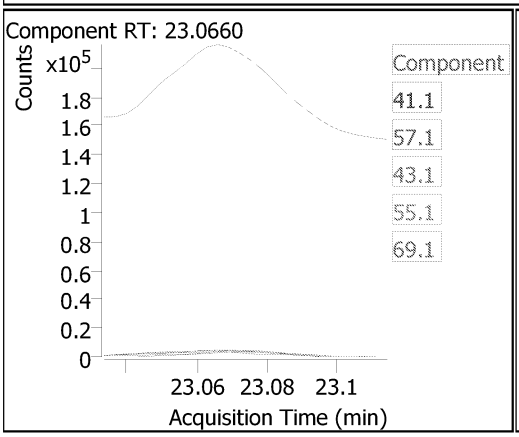



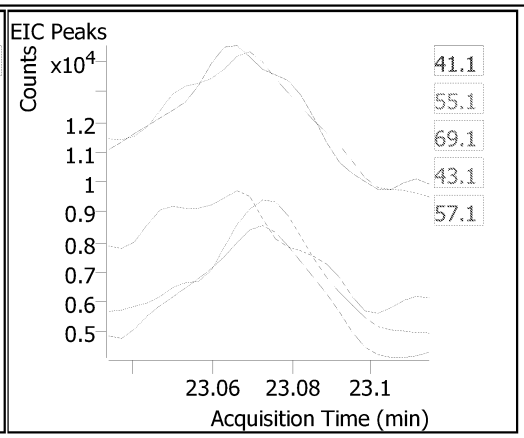
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.0660 | (7R,8R)-cis-anti-cis-Tricyclo[7.3.0.0(2,6)]dodecane-7,8-diol | 520105.0 | 73.2 | 1000099-69-5 | C12H20O2 | 1.085 |

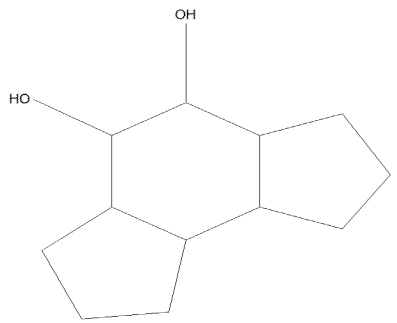


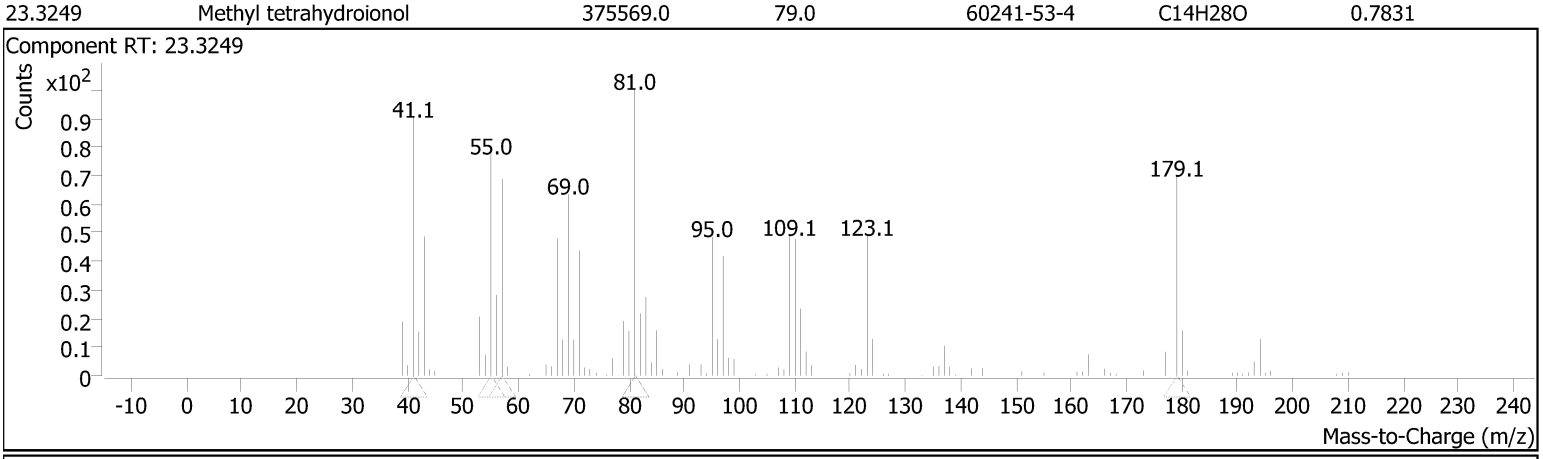



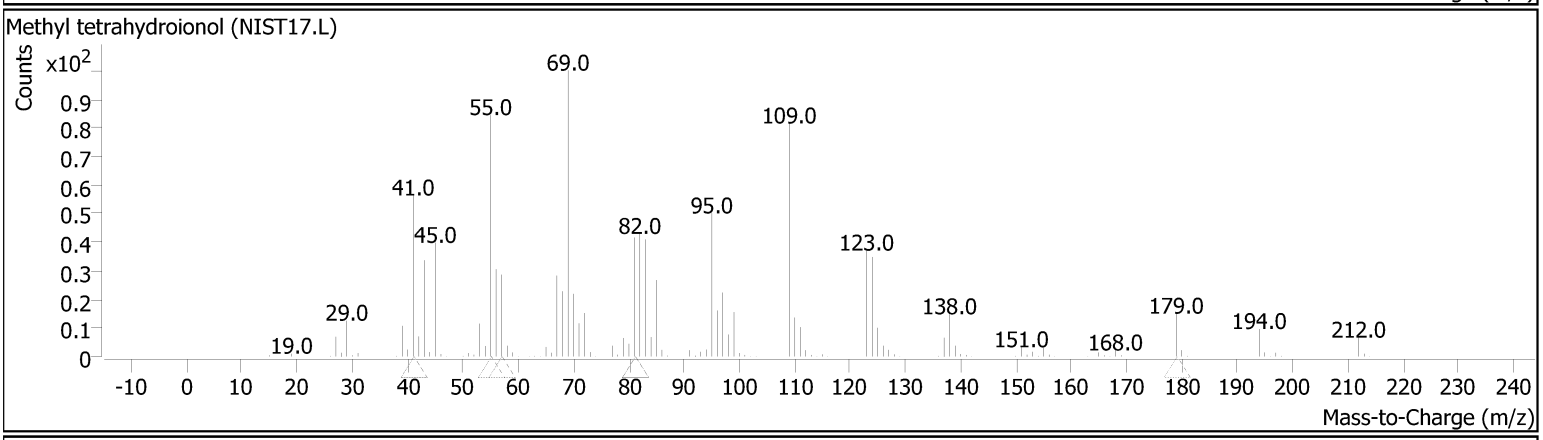



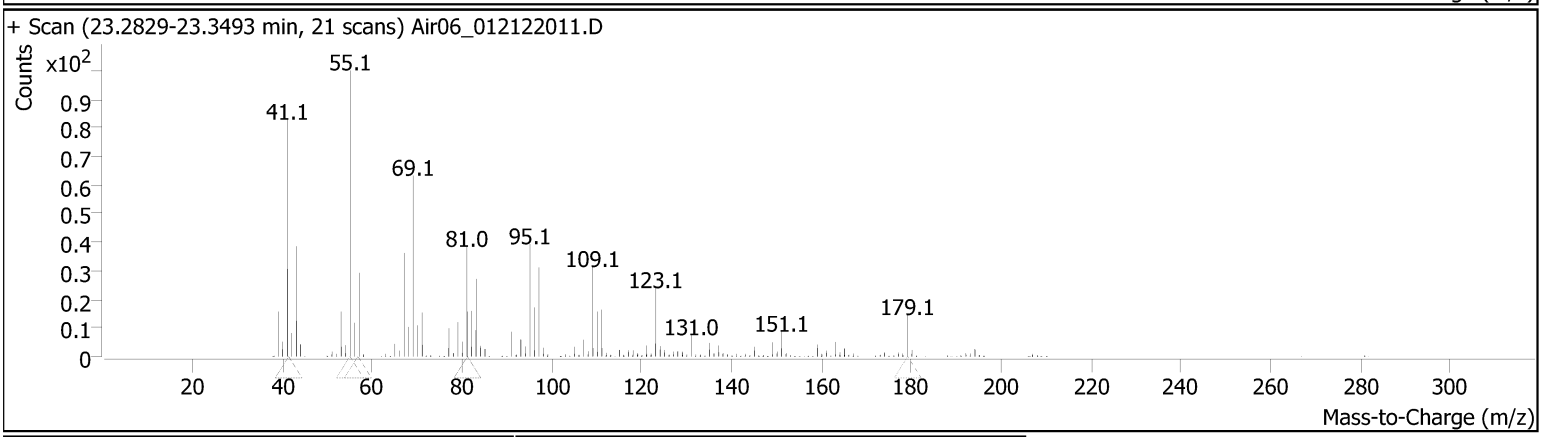



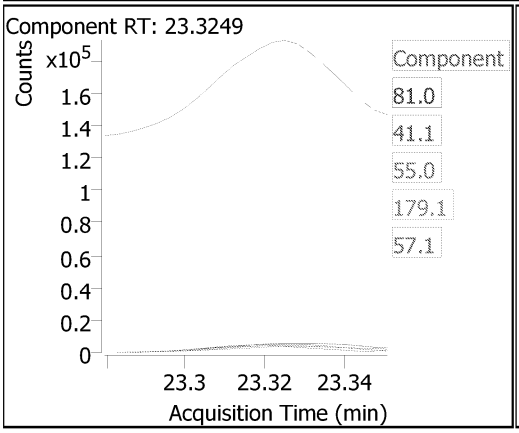



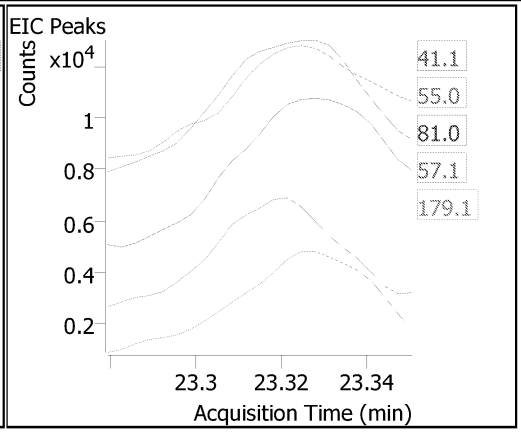
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3249 | Methyl tetrahydroionol | 375569.0 | 79.0 | 60241-53-4 | C14H28O | 0.7831 |

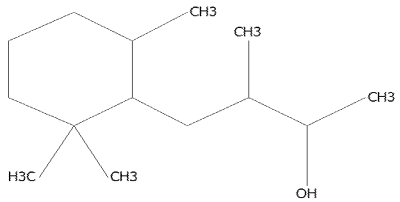


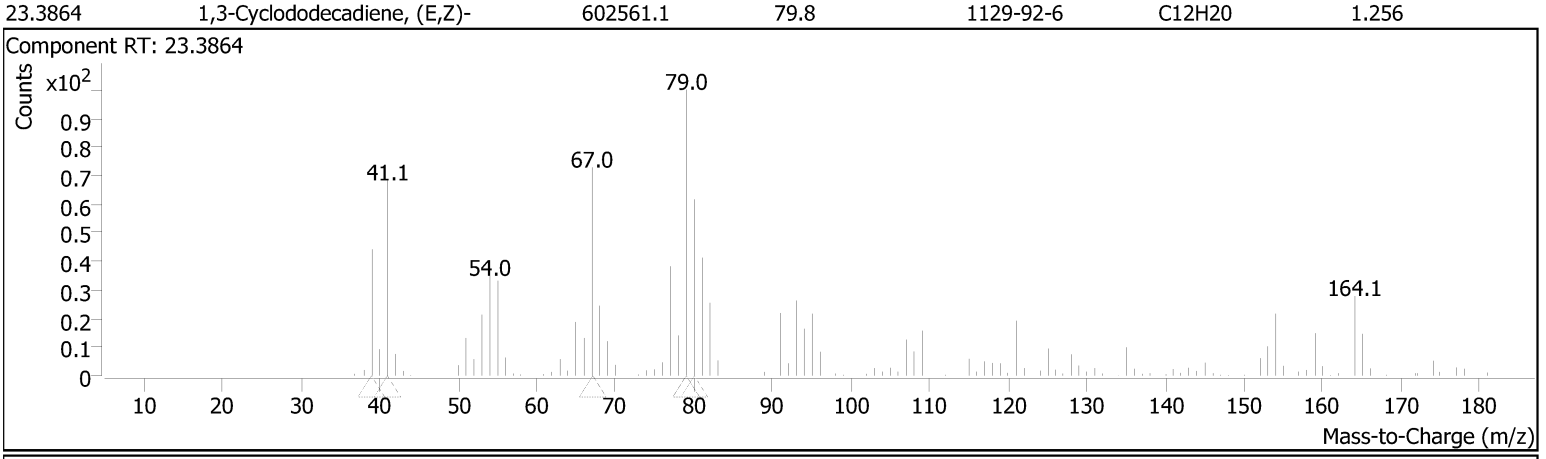



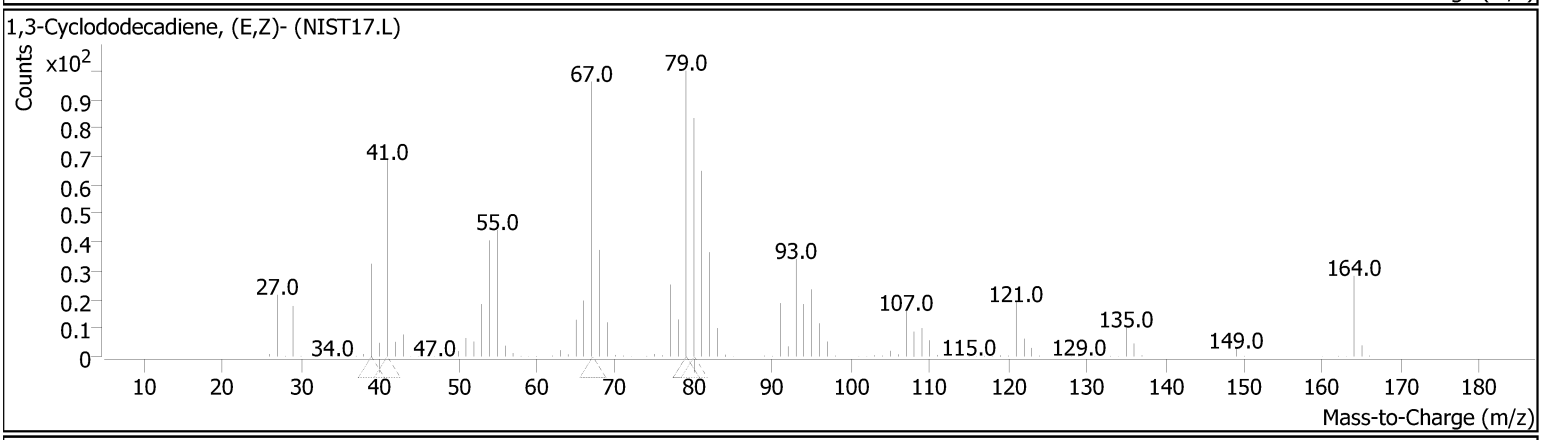



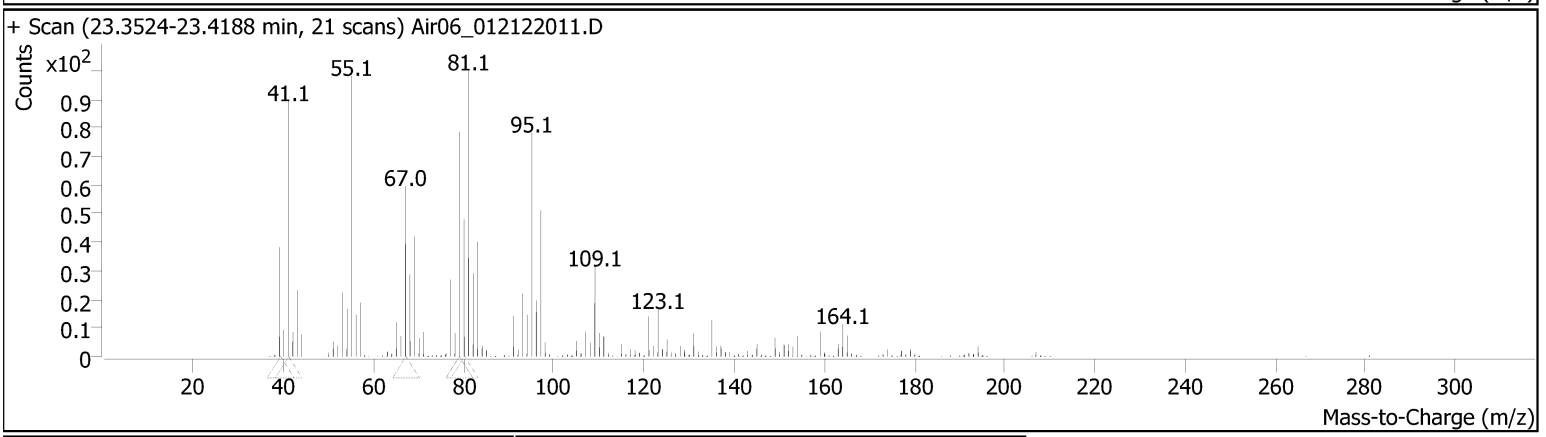
# Library Search Results - NonTarget Hits with Details

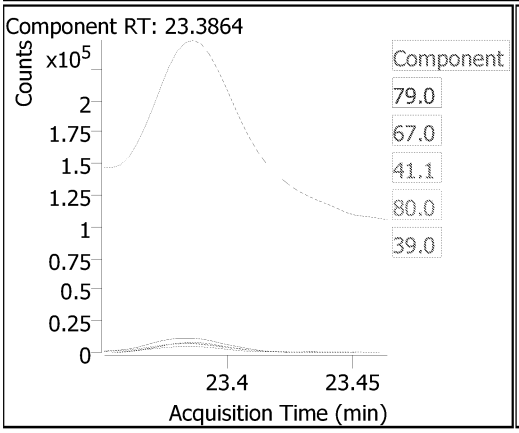
Agilent Technologies

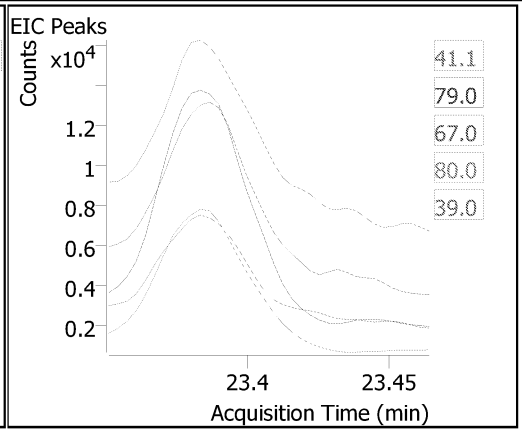
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3864 | 1,3-Cyclododecadiene, (E,Z)- | 602561.1 | 79.8 | 1129-92-6 | C12H20 | 1.256 |

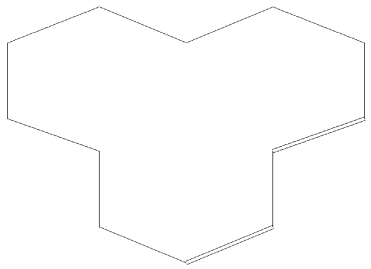


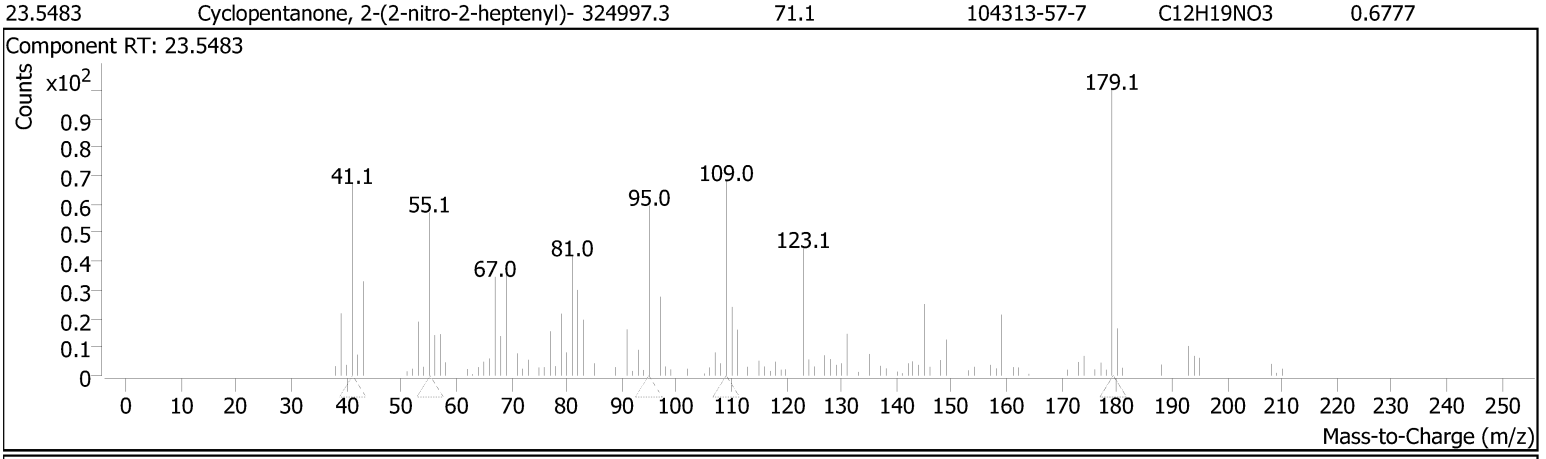



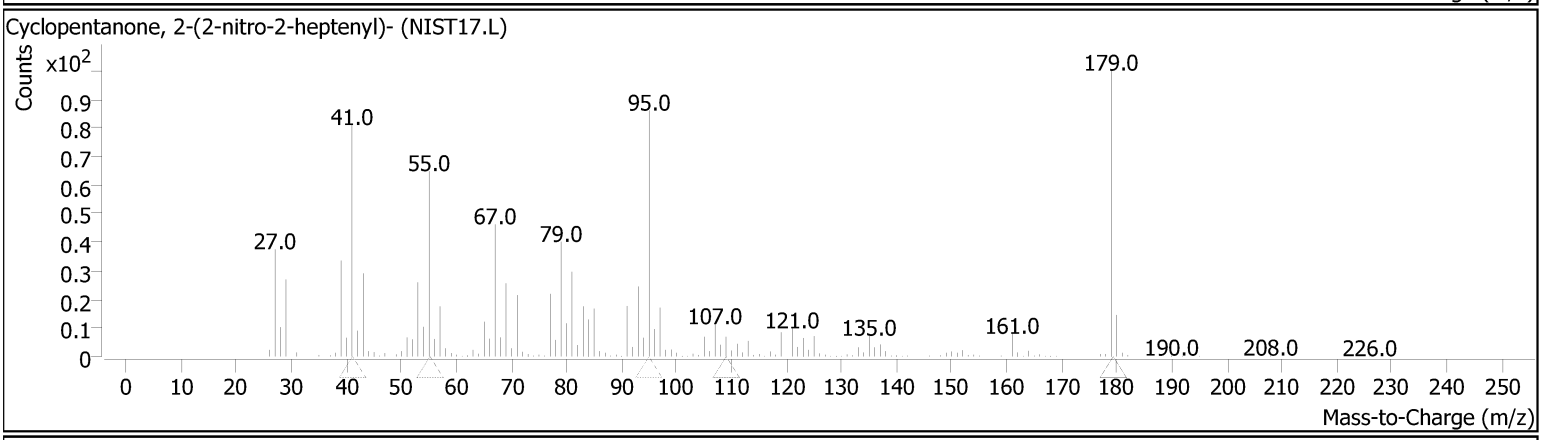



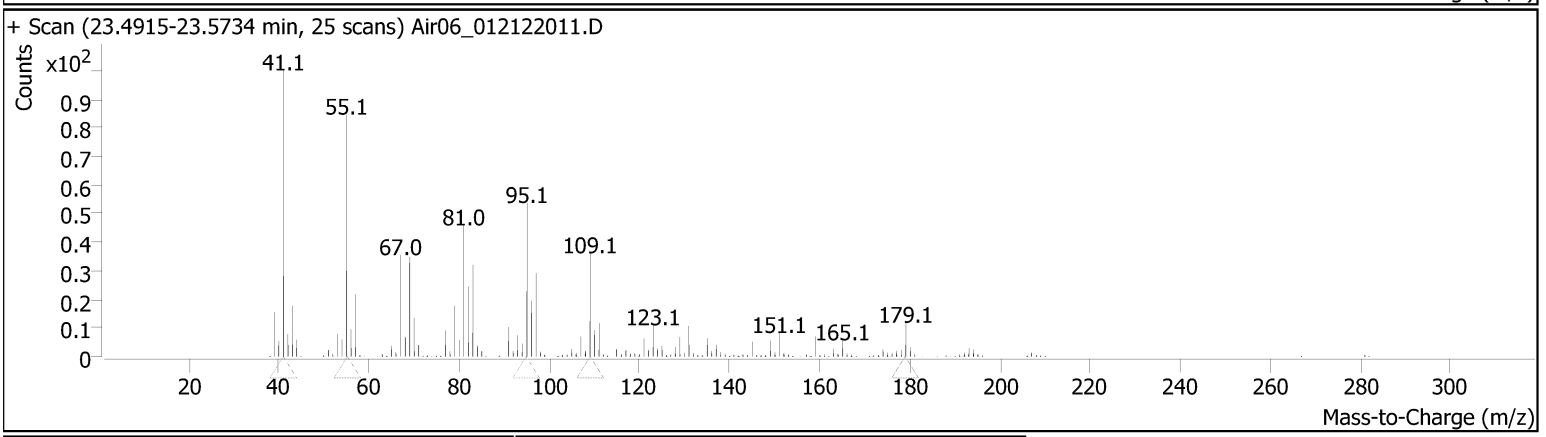



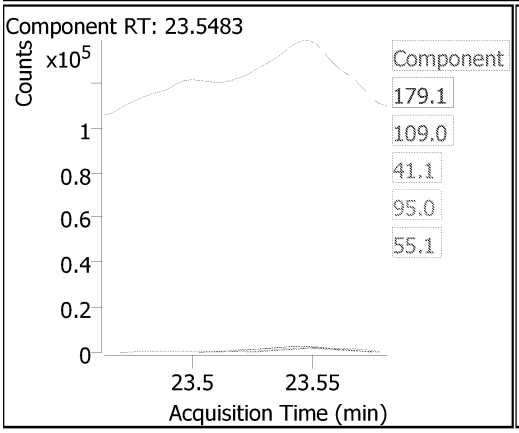



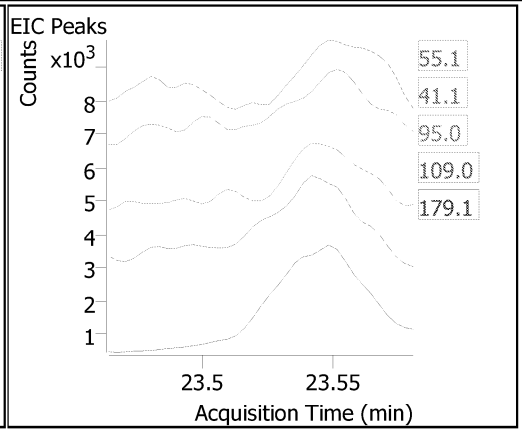
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.5483 | Cyclopentanone, 2-(2-nitro-2-heptenyl)- | 324997.3 | 71.1 | 104313-57-7 | C12H19NO3 | 0.6777 |

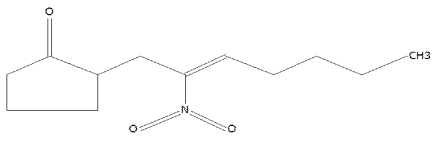


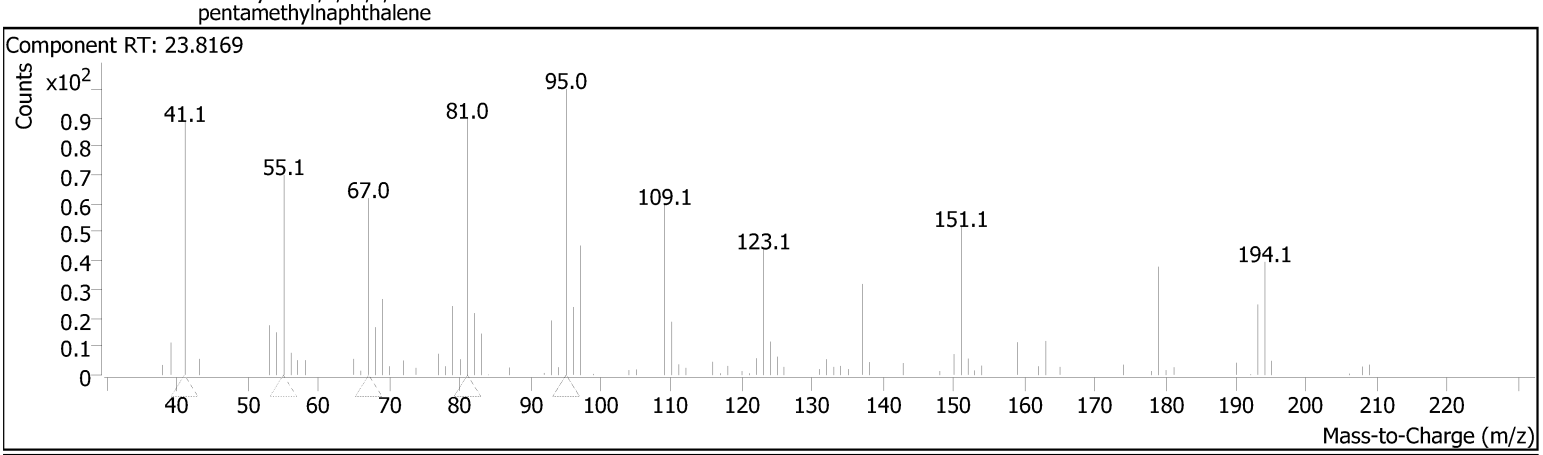



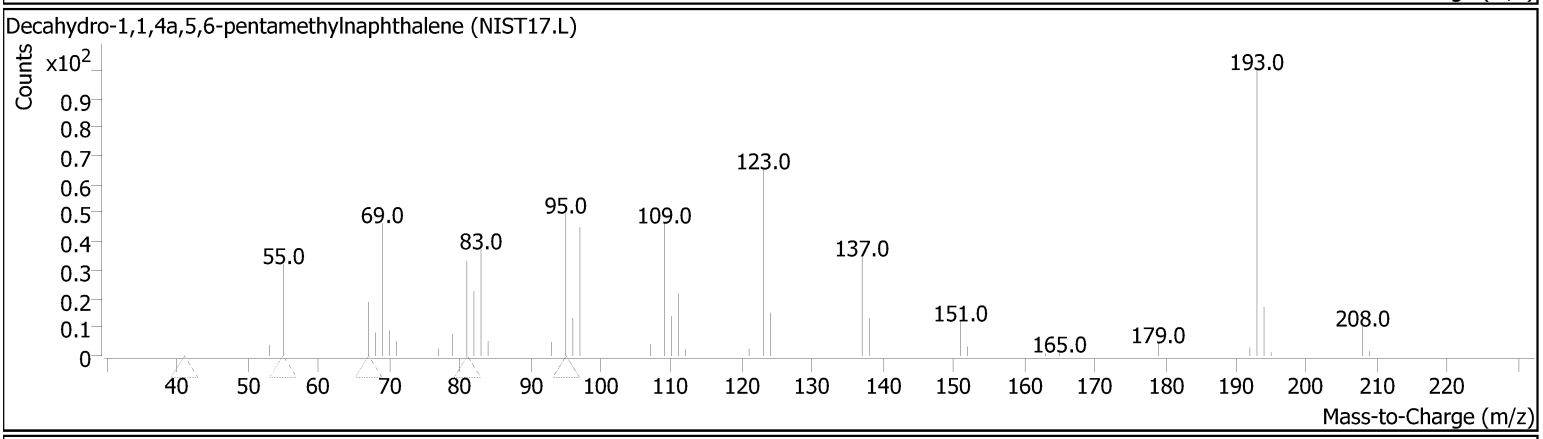



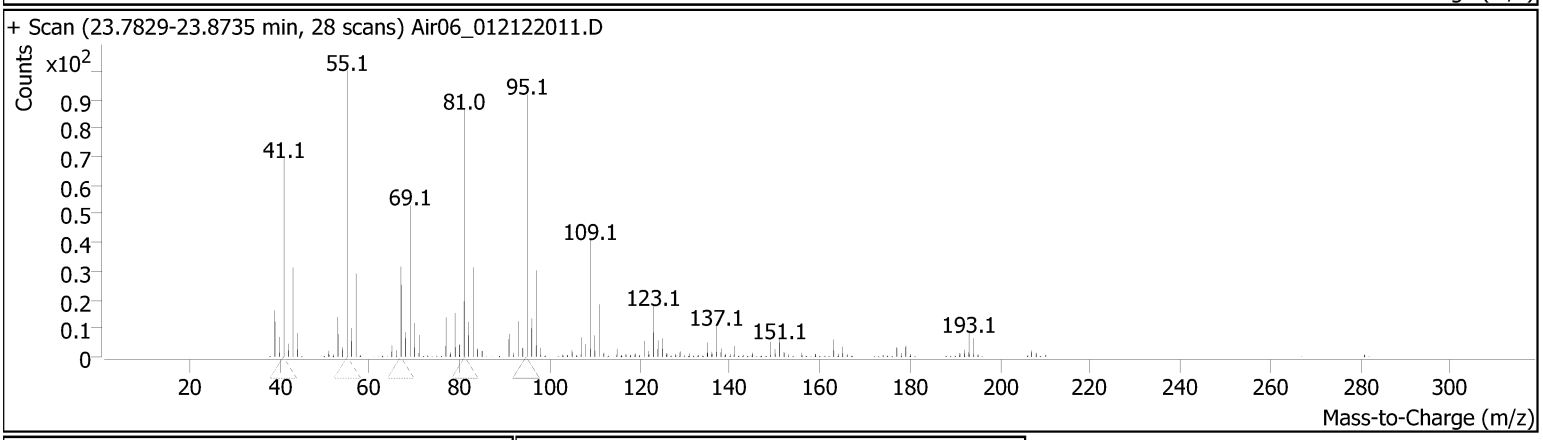



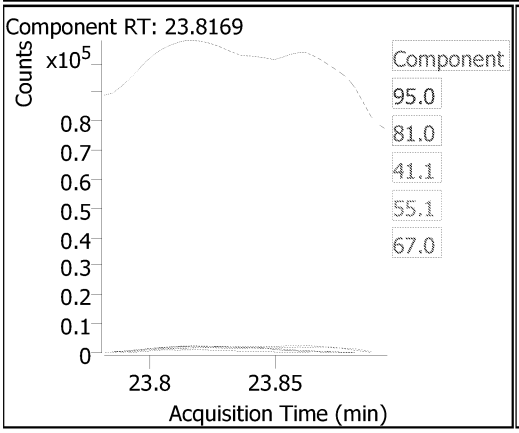



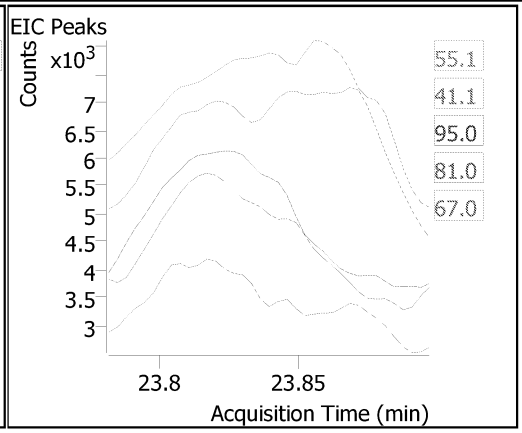
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.8169 | Decahydro-1,1,4a,5,6-pentamethylnaphthalene | 162823.4 | 72.7 | 80655-44-3 | C15H28 | 0.3395 |

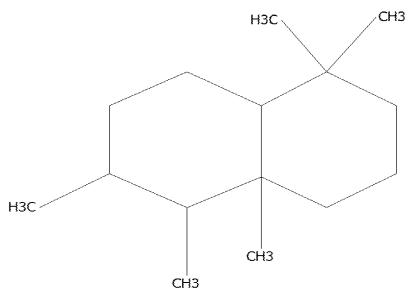


ENTHALPY SAMPLE USER REPORT FOR EPA TO-15

| | | | | | |
|---|---|---|---|---|---|
| Inst | : AIR-MS-06 | Lab ID | : 456991-004 C10557 | Client ID | : SVMP-17D |
| Seqnum | : 372032312009 | Matrix | : Air | Acct | : ELEMENT (JG) |
| File | : air06_012222009 | Batch | : 282327 | Time | : 22-JAN-2022 17:42 |
| Cal | : 372007975001 | Caldate | : 05-JAN-2022 | | |
| IDF | : 8.0 | Raw Units | : nL/L | Units | : nL/L |
| PDF | : 1.0 | | | | |

| Analyte | Raw | Result | RTS | RL | Blank | Flags |
|---|---|---|---|---|---|---|
| Freon 12 | 25.20 | 200 | | 1.6 | | u |
| Freon 114 | 0.0005128 | ND | | 1.6 | | |
| Chloromethane | 8.931 | 71 | -0.150 | 1.6 | | x |
| Vinyl Chloride | 0 | ND | | 1.6 | | |
| Bromomethane | 0 | ND | | 1.6 | | |
| Chloroethane | 0 | ND | | 1.6 | | |
| Trichlorofluoromethane | 0.02705 | ND | | 1.6 | | |
| 1,1-Dichloroethene | 0 | ND | | 1.6 | | |
| Freon 113 | 0.006854 | ND | | 1.6 | | |
| Acetone | 0.4818 | ND | | 8.0 | 0.83 | |
| Carbon Disulfide | 0.03902 | ND | | 1.6 | | |
| Isopropanol (IPA) | 0.7035 | ND | | 8.0 | | |
| Methylene Chloride | 0.1216 | ND | | 1.6 | 0.99 | |
| trans-1,2-Dichloroethene | 0.07526 | ND | | 1.6 | | |
| MTBE | 0.01626 | ND | | 1.6 | | |
| n-Hexane | 0.03173 | ND | | 1.6 | | |
| 1,1-Dichloroethane | 0.0004378 | ND | | 1.6 | | |
| Vinyl Acetate | 0.01398 | ND | | 8.0 | | |
| cis-1,2-Dichloroethene | 0.0003010 | ND | | 1.6 | | |
| 2-Butanone | 0.05298 | ND | | 8.0 | | |
| Chloroform | 0.01334 | ND | | 1.6 | | |
| 1,1,1-Trichloroethane | 0.001620 | ND | | 1.6 | | |
| Carbon Tetrachloride | 0.008305 | ND | | 1.6 | | |
| Benzene | 0.006962 | ND | | 1.6 | | |
| 1,2-Dichloroethane | 0 | ND | | 1.6 | | |
| Trichloroethene | 0.01630 | ND | | 1.6 | | |
| 1,2-Dichloropropane | 0.04832 | ND | | 1.6 | | |
| Bromodichloromethane | 0.001673 | ND | | 1.6 | | |
| cis-1,3-Dichloropropene | 0.01500 | ND | | 1.6 | | |
| 4-Methyl-2-Pentanone | 0.005394 | ND | | 1.6 | | |
| Toluene | 0.01527 | ND | | 1.6 | | |
| trans-1,3-Dichloropropene | 0.002647 | ND | | 1.6 | | |
| 1,1,2-Trichloroethane | 0.0009112 | ND | | 1.6 | | |
| Tetrachloroethene | 0.008952 | ND | | 1.6 | | |
| 2-Hexanone | 0.005493 | ND | | 4.0 | | |
| Dibromochloromethane | 0.001535 | ND | | 1.6 | | |
| 1,2-Dibromoethane | 0.0004059 | ND | | 1.6 | | |
| Chlorobenzene | 0.003443 | ND | | 1.6 | | |
| Ethylbenzene | 0.01388 | ND | | 1.6 | | |
| m,p-Xylenes | 0.07664 | ND | | 3.2 | | |
| o-Xylene | 0.04467 | ND | | 1.6 | | |
| Styrene | 0.007458 | ND | | 1.6 | | |
| Bromoform | 0.0003446 | ND | | 1.6 | | |
| 1,1,2,2-Tetrachloroethane | 0.005979 | ND | | 1.6 | | |
| 1,1,1,2-Tetrachloroethane | 0.0005610 | ND | | 1.6 | | |
| 4-Ethyltoluene | 0.01962 | ND | | 1.6 | | |
| 1,3,5-Trimethylbenzene | 0.06569 | ND | | 1.6 | | |
| 1,2,4-Trimethylbenzene | 0.1268 | ND | | 1.6 | | |

| Analyte | Raw | Result | RTS | RL | Blank | Flags |
|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.002077 | ND | | 1.6 | | |
| 1,4-Dichlorobenzene | 0.004561 | ND | | 1.6 | | |
| Benzyl chloride | 0.005875 | ND | | 1.6 | | |
| 1,2-Dichlorobenzene | 0.003437 | ND | | 1.6 | | |
| 1,2,4-Trichlorobenzene | 0.006789 | ND | | 1.6 | | |
| Hexachlorobutadiene | 0.0003822 | ND | | 1.6 | | |

**TICs not entered.**

| Surrogate | Raw | Spiked | Result | %Rec | Limits | Flags |
|---|---|---|---|---|---|---|
| Bromofluorobenzene | 10.36 | 80.00 | 82.86 | 104 | 60-140 | |

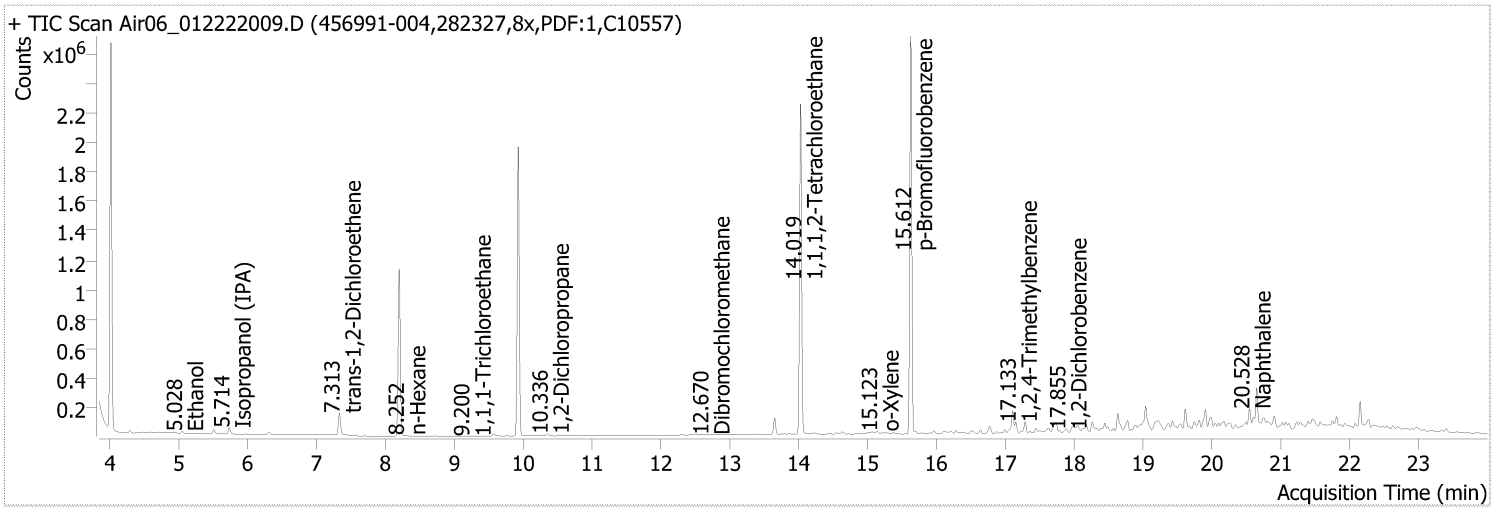
| ISTD (ICAL air06_010522009) | ICAL Area | SAMPLE Area | %Drift | ICAL RT | SAMPLE RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 380738 | -7.41 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1564232 | 0.81 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 772579 | -8.82 | 14.01 | 14.01 | 0.00 |

Analyst: ZNZ Date: 01/22/22 Reviewer: SLL Date: 01/24/22

u=use x=false positive

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012222009.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/22/2022 5:42:33 PM |
| Sample Name | 456991-004,282327,8x,PDF:1,C10557 | Instrument | Air-MS-06 |
| Vial | 10 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 2x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 22 1248 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



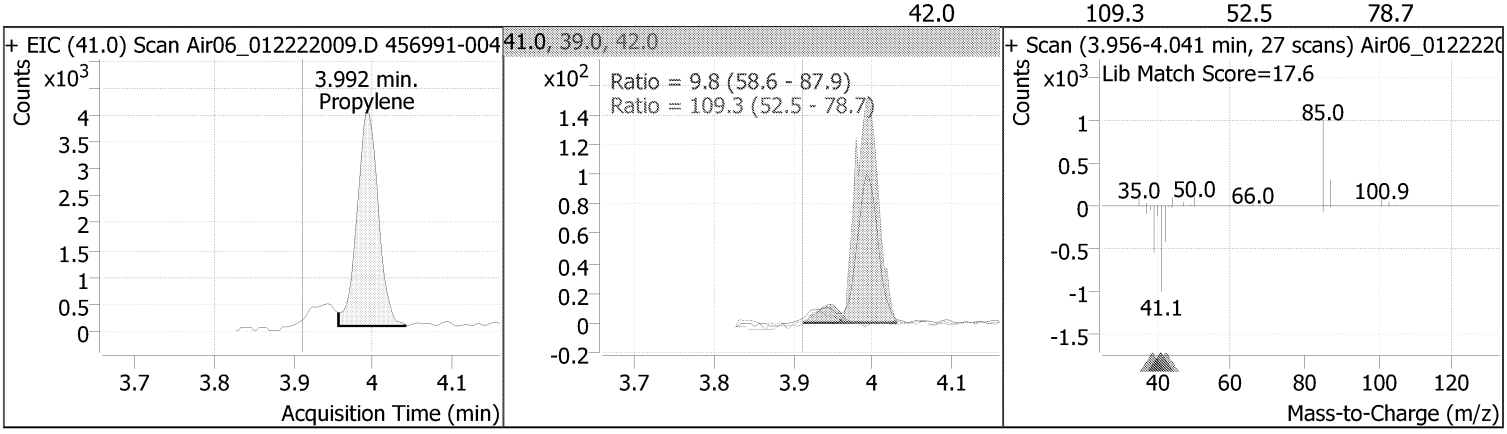

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 380738 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1564232 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 772579 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1052221 | 10.3570 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 103.57% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.992 | 41.0 | 7476 | 0.1993 | nL/L | # | 34 |
| T Freon 12 | 3.995 | 85.0 | 2500628 | 25.2018 | nL/L | | 98 |
| T Chloromethane | 3.992 | 50.0 | 416390 | 8.9308 | nL/L | # | 56 |
| T Freon 114 | 4.261 | 135.0 | 36 | 0.0005 | nL/L | | 1 |
| T Vinyl Chloride | 0.000 | | 0 | N.D. | | | |
| T 1,3-Butadiene | 4.510 | 54.0 | 38 | 0.0010 | nL/L | # | 1 |
| T Butane | 4.559 | 43.0 | 2877 | 0.0371 | nL/L | # | 93 |
| T Bromomethane | 0.000 | | 0 | N.D. | | | |
| T Chloroethane | 0.000 | | 0 | N.D. | | | |
| T Ethanol | 5.028 | 45.0 | 17298 | 0.7534 | nL/L | # | 94 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 5.348 | 56.0 | 270 | 0.0133 | nL/L | # | 20 |
| T Acetone | 5.487 | 58.0 | 11529 | 0.4818 | nL/L | # | 98 |
| T Trichloromonofluoromethane | 5.636 | 101.0 | 3163 | 0.0270 | nL/L | | 92 |
| T Isopropanol (IPA) | 5.714 | 45.0 | 60289 | 0.7035 | nL/L | | 95 |
| T n-Pentane | 5.963 | 43.0 | 884 | 0.0092 | nL/L | # | 74 |
| T 1,1-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Tert-butyl alcohol (TBA) | 6.300 | 59.0 | 1917 | 0.0193 | nL/L | # | 65 |
| T Methylene Chloride | 6.290 | 84.0 | 5124 | 0.1216 | nL/L | | 95 |
| T 3-Chloropropene | 6.581 | 76.0 | 4751 | 0.2446 | nL/L | # | 60 |
| T Freon 113 | 6.546 | 101.0 | 644 | 0.0069 | nL/L | # | 90 |
| T Carbon Disulfide | 6.581 | 76.0 | 4751 | 0.0390 | nL/L | | 76 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.313 | 61.0 | 5488 | 0.0753 | nL/L | # | 30 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 39 | 0.0004 | nL/L | # | 18 |
| T MTBE | 7.316 | 73.0 | 1929 | 0.0163 | nL/L | # | 79 |
| T Vinyl Acetate | 7.416 | 43.0 | 2101 | 0.0140 | nL/L | # | 87 |
| T 2-Butanone | 7.685 | 43.0 | 6132 | 0.0530 | nL/L | | 96 |
| T cis-1,2-Dichloroethene | 8.031 | 61.0 | 22 | 0.0003 | nL/L | | 33 |
| T Ethyl Acetate | 8.258 | 61.0 | 138 | 0.0076 | nL/L | # | 1 |
| T n-Hexane | 8.252 | 57.0 | 2648 | 0.0317 | nL/L | | 98 |
| T Chloroform | 8.303 | 83.0 | 1256 | 0.0133 | nL/L | # | 71 |
| T Tetrahydrofuran | 8.698 | 72.0 | 683 | 0.0329 | nL/L | # | 69 |
| T 1,2-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 147 | 0.0016 | nL/L | | 27 |
| T Benzene | 9.611 | 78.0 | 944 | 0.0070 | nL/L | # | 79 |
| T Carbon Tetrachloride | 9.744 | 117.0 | 807 | 0.0083 | nL/L | # | 74 |
| T Cyclohexane | 9.867 | 84.0 | 144 | 0.0025 | nL/L | # | 12 |
| T 1,2-Dichloropropane | 10.336 | 63.0 | 3096 | 0.0483 | nL/L | # | 39 |
| T Methane, bromodichloro- | 10.472 | 83.0 | 175 | 0.0017 | nL/L | # | 43 |
| T 1,4-Dioxane | 10.333 | 88.0 | 2357 | 0.0705 | nL/L | # | 18 |
| T Trichloroethene | 10.563 | 132.0 | 1063 | 0.0163 | nL/L | | 92 |
| T 2,2,4-Trimethylpentane | 10.621 | 57.0 | 332 | 0.0011 | nL/L | | 69 |
| T Methyl methacrylate | 10.686 | 69.0 | 77 | 0.0014 | nL/L | | 1 |
| T n-Heptane | 10.841 | 71.0 | 364 | 0.0072 | nL/L | # | 38 |
| T cis-1,3-Dichloropropene | 11.556 | 110.0 | 305 | 0.0150 | nL/L | # | 1 |
| T 4-Methyl-2-Pentanone | 11.411 | 58.0 | 303 | 0.0054 | nL/L | # | 82 |
| T trans-1,3-Dichloropropene | 11.741 | 110.0 | 55 | 0.0026 | nL/L | | 1 |
| T 1,1,2-Trichloroethane | 11.987 | 97.0 | 56 | 0.0009 | nL/L | # | 40 |
| T Toluene | 12.281 | 91.0 | 2831 | 0.0153 | nL/L | # | 89 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 26981798 | 2.1681 | nL/L | | 100 |
| T 2-Hexanone | 12.547 | 58.0 | 397 | 0.0055 | nL/L | # | 73 |
| T Dibromochloromethane | 12.670 | 129.0 | 170 | 0.0015 | nL/L | # | 23 |
| T 1,2-Dibromoethane | 12.906 | 108.9 | 38 | 0.0004 | nL/L | # | 1 |
| T Tetrachloroethene | 13.375 | 166.0 | 858 | 0.0090 | nL/L | # | 82 |
| T 1,1,1,2-Tetrachloroethane | 14.019 | 131.0 | 37 | 0.0006 | nL/L | # | 1 |
| T Benzene, chloro- | 14.207 | 112.0 | 456 | 0.0034 | nL/L | | 31 |
| T Ethylbenzene | 14.437 | 91.0 | 2918 | 0.0139 | nL/L | # | 89 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 22605784 | 2.4869 | nL/L | | 100 |
| T m,p-Xylenes | 14.618 | 91.0 | 12955 | 0.0766 | nL/L | | 94 |
| T Bromoform | 14.696 | 173.0 | 40 | 0.0003 | nL/L | # | 1 |
| T Styrene | 15.007 | 104.0 | 999 | 0.0075 | nL/L | # | 90 |
| T 1,1,2,2-Tetrachloroethane | 15.168 | 83.0 | 764 | 0.0060 | nL/L | # | 1 |
| T o-Xylene | 15.123 | 91.0 | 7763 | 0.0447 | nL/L | # | 90 |
| T n-Nonane | 15.359 | 85.0 | 1296 | 0.0323 | nL/L | # | 85 |
| T Isopropylbenzene | 15.770 | 105.0 | 1369 | 0.0057 | nL/L | # | 68 |
| T 2-Chlorotoluene | 16.314 | 126.0 | 98 | 0.0016 | nL/L | | 1 |
| T n-Propylbenzene | 16.363 | 120.0 | 1182 | 0.0178 | nL/L | # | 83 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 4625 | 0.0196 | nL/L | | 63 |
| T 1,3,5-Trimethylbenzene | 16.625 | 105.0 | 13407 | 0.0657 | nL/L | | 99 |
| T 1,2,4-Trimethylbenzene | 17.133 | 105.0 | 25703 | 0.1268 | nL/L | | 97 |
| T Benzyl chloride | 17.428 | 91.0 | 1047 | 0.0059 | nL/L | # | 61 |
| T 1,3-Dichlorobenzene | 17.327 | 146.0 | 289 | 0.0021 | nL/L | # | 1 |
| T 1,4-Dichlorobenzene | 17.411 | 146.0 | 641 | 0.0046 | nL/L | # | 37 |
| T 1,2-Dichlorobenzene | 17.855 | 146.0 | 466 | 0.0034 | nL/L | # | 1 |
| T 1,2,4-Trichlorobenzene | 20.366 | 179.9 | 759 | 0.0068 | nL/L | | 77 |
| T Naphthalene | 20.528 | 128.0 | 49436 | 0.2137 | nL/L | # | 92 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.111 | 225.0 | 46 | 0.0004 | nL/L | # | 1 |

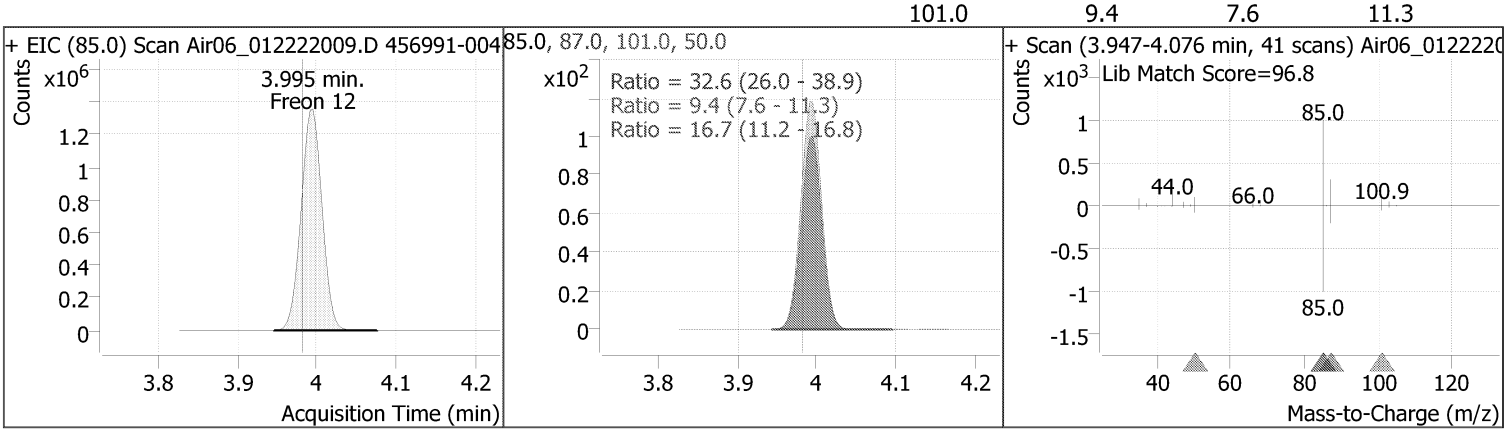
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

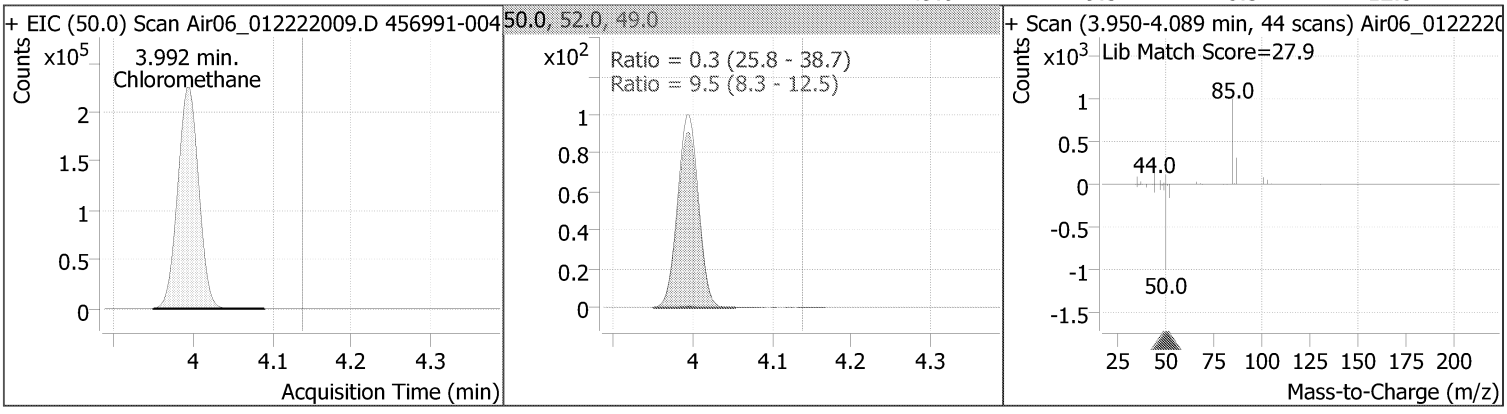
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.1993 | 3.99 | 0.08 | 7476 | 39.0 | 9.8 | 58.6 | 87.9 |
| | | | | | 42.0 | 109.3 | 52.5 | 78.7 |



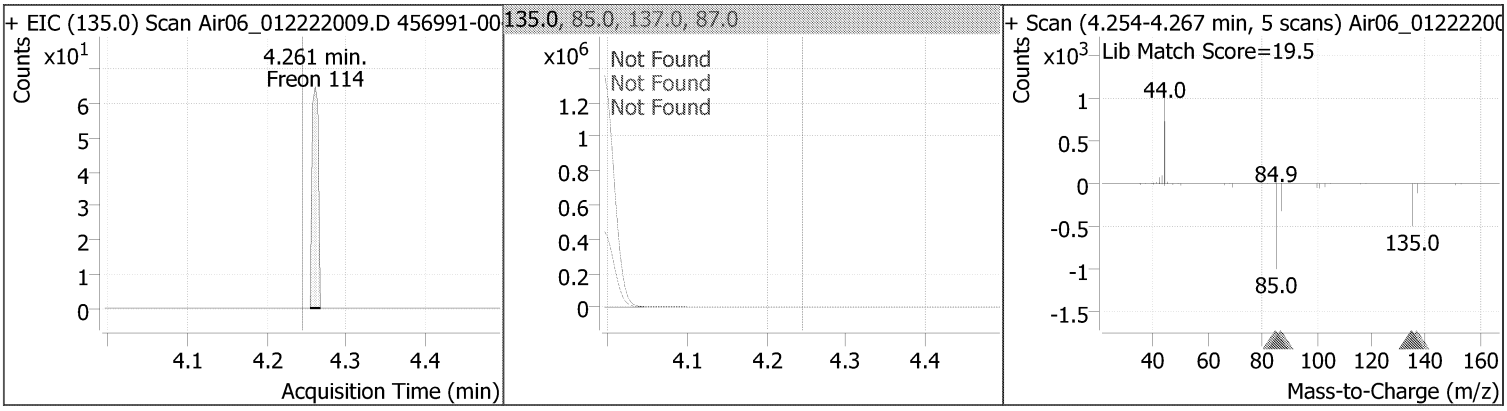

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 25.2018 | 4.00 | 0.02 | 2500628 | 87.0 | 32.6 | 26.0 | 38.9 |
| | | | | | 50.0 | 16.7 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.4 | 7.6 | 11.3 |



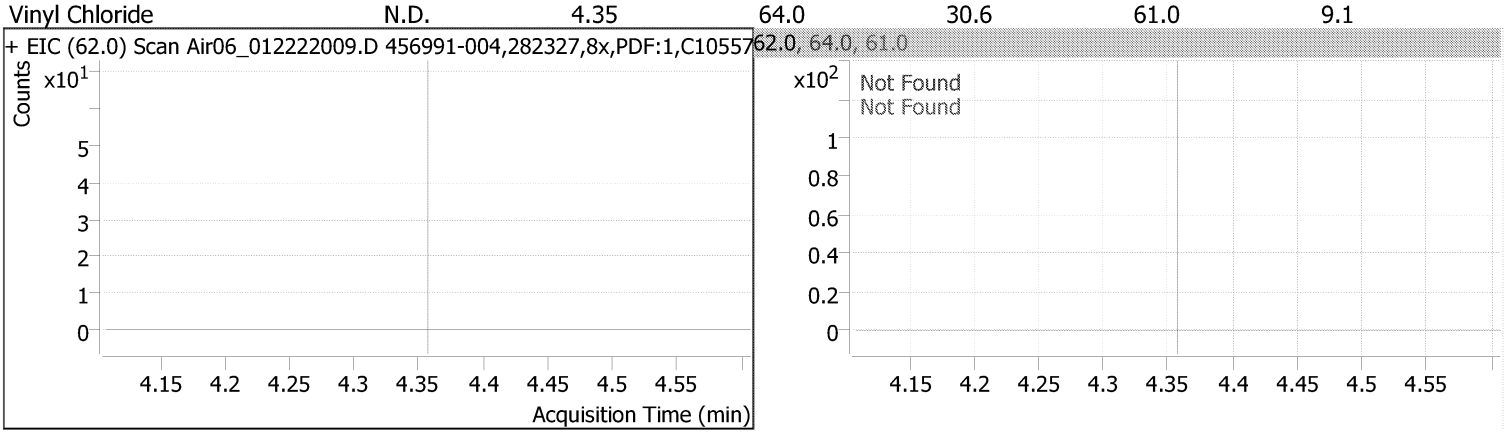

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 8.9308 | 3.99 | -0.14 | 416390 | 52.0 | 0.3 | 25.8 | 38.7 |
| | | | | | 49.0 | 9.5 | 8.3 | 12.5 |



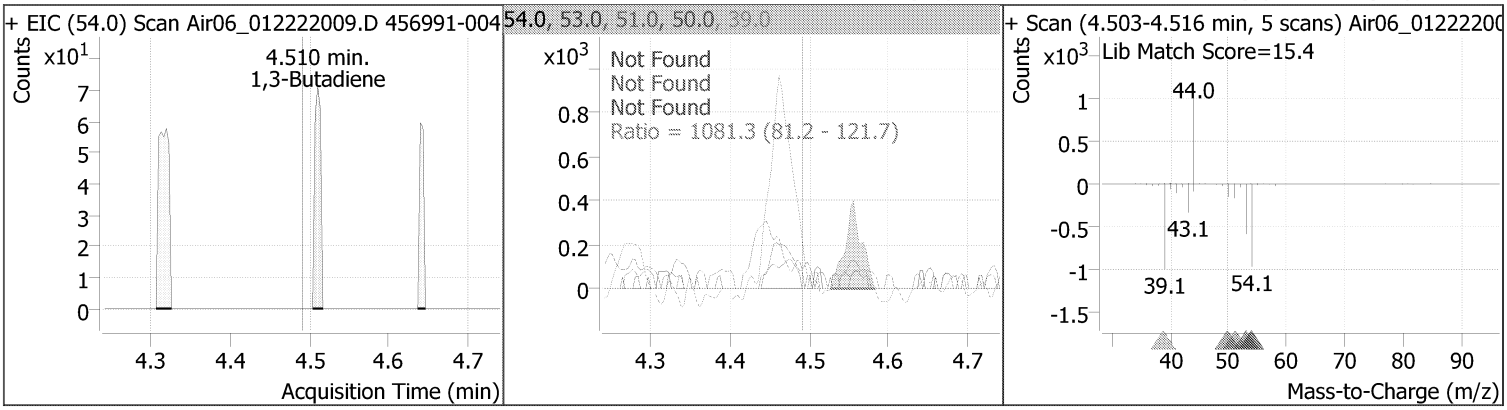
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.0005 | 4.26 | 0.02 | 36 | 85.0 | | 124.2 | 186.2 |
| | | | | | 87.0 | | 39.8 | 59.7 |
| | | | | | 137.0 | | 25.9 | 38.9 |




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl Chloride | N.D. | 4.35 | 64.0 | 30.6 | 61.0 | 9.1 |

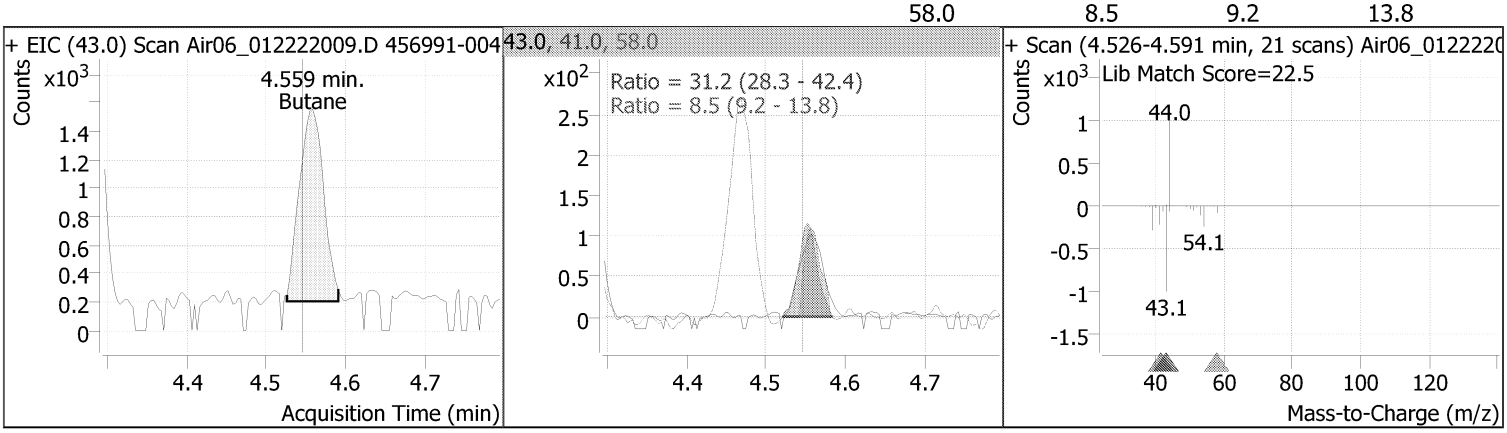



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0010 | 4.51 | 0.02 | 38 | 39.0 | 1081.3 | 81.2 | 121.7 |
| | | | | | 53.0 | | 59.5 | 89.3 |
| | | | | | 50.0 | | 27.7 | 41.6 |
| | | | | | 51.0 | | 25.0 | 37.6 |

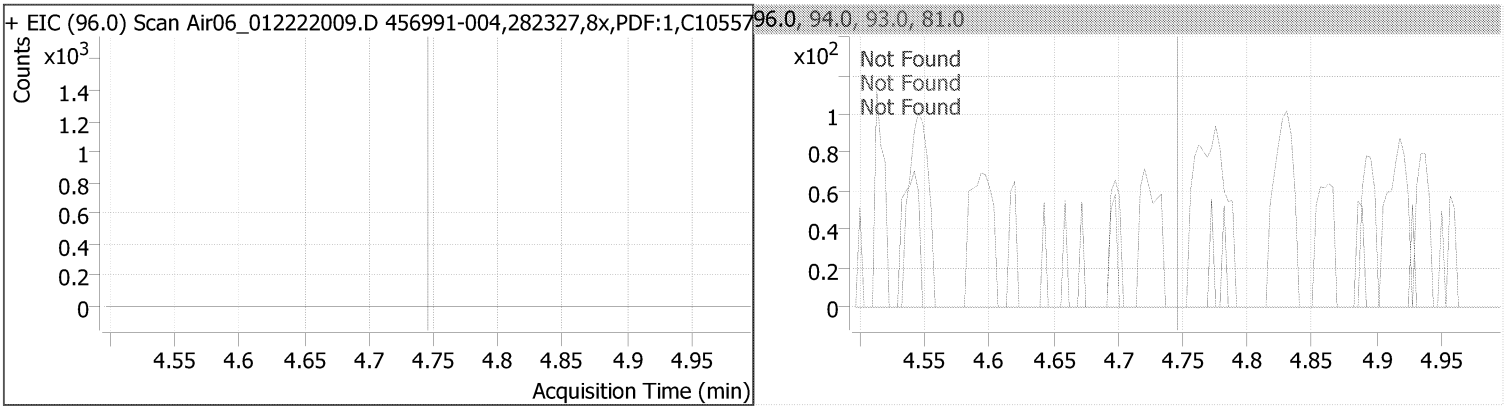


# Quantitation Results Report (Not Reviewed)

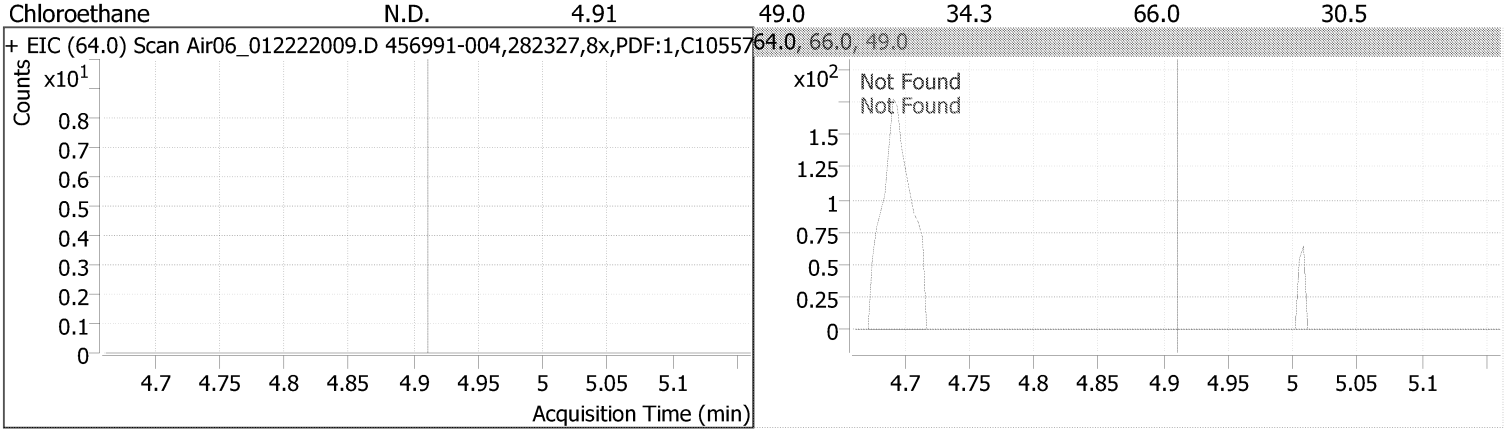
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0371 | 4.56 | 0.02 | 2877 | 41.0 | 31.2 | 28.3 | 42.4 |
| | | | | | 58.0 | 8.5 | 9.2 | 13.8 |



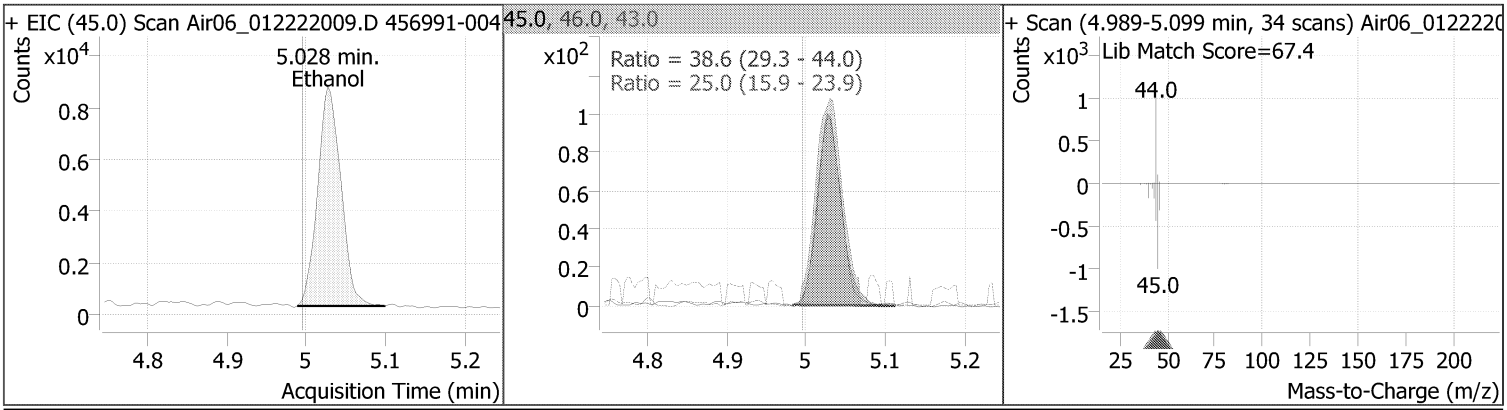

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | N.D. | 4.74 | 94.0 | 107.1 | 93.0 | 22.6 | 81.0 | 17.5 |



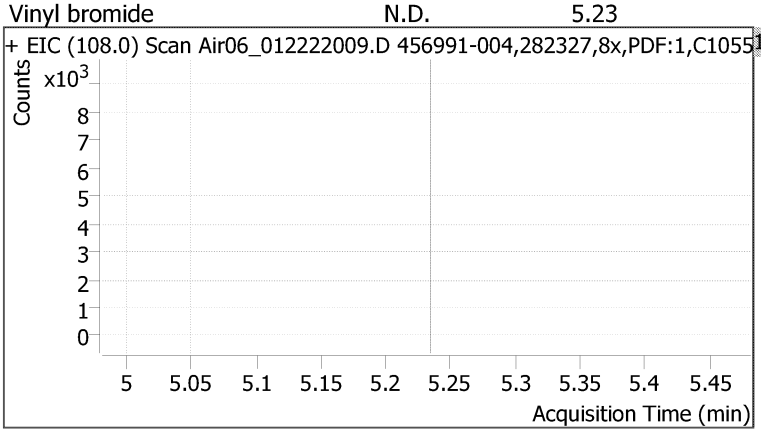

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Chloroethane | N.D. | 4.91 | 49.0 | 34.3 | 66.0 | 30.5 |

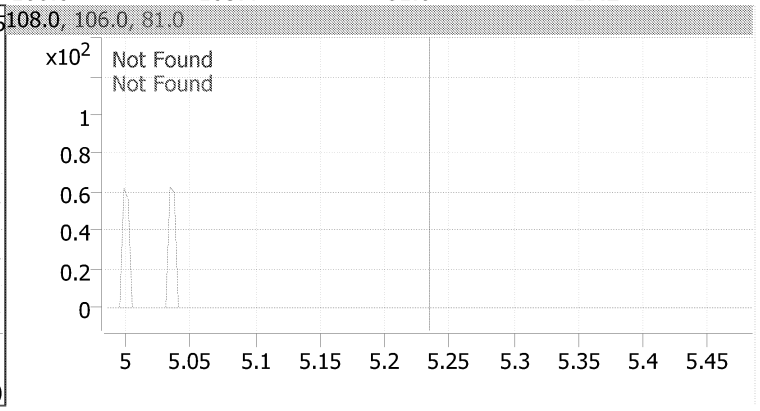



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.7534 | 5.03 | 0.04 | 17298 | 46.0 | 38.6 | 29.3 | 44.0 |
| | | | | | 43.0 | 25.0 | 15.9 | 23.9 |

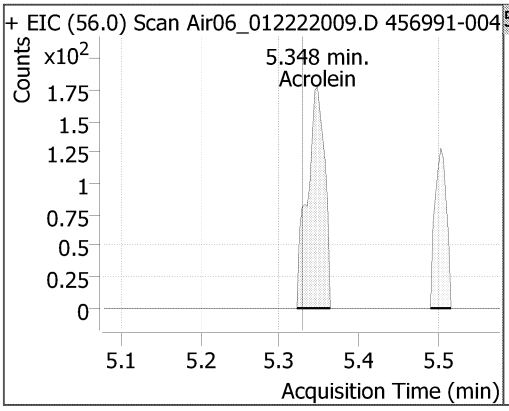


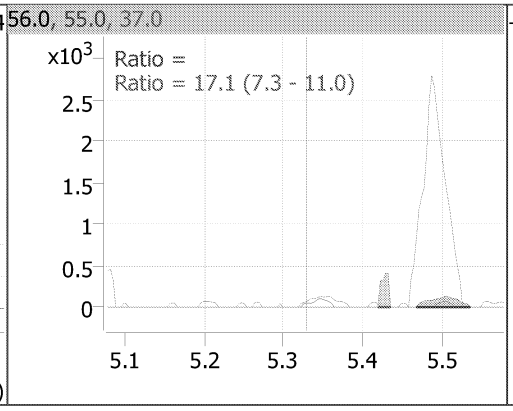
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.23 | 106.0 | 105.4 | 81.0 | 17.2 |

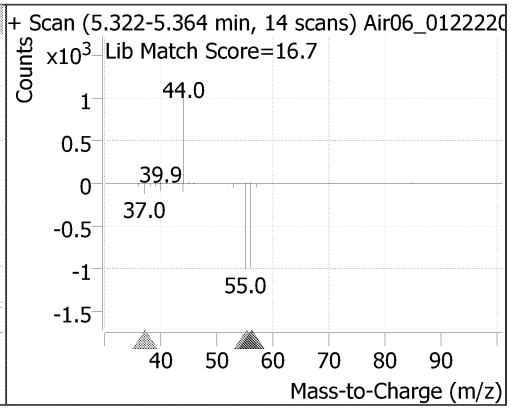


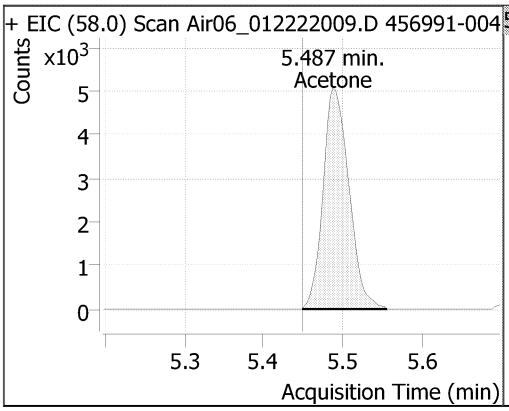

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0133 | 5.35 | 0.02 | 270 | 55.0 | | 59.2 | 88.8 |
| | | | | | 37.0 | 17.1 | 7.3 | 11.0 |

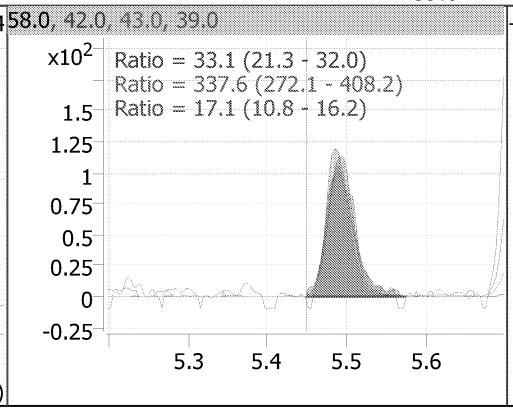


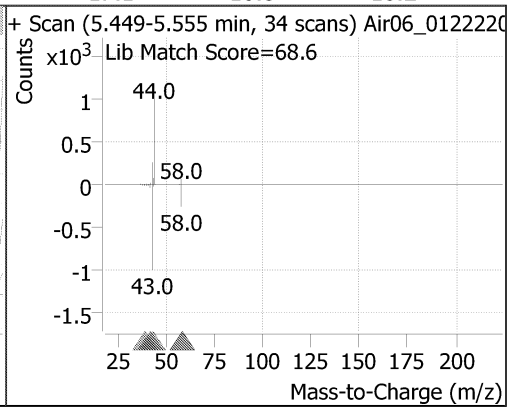



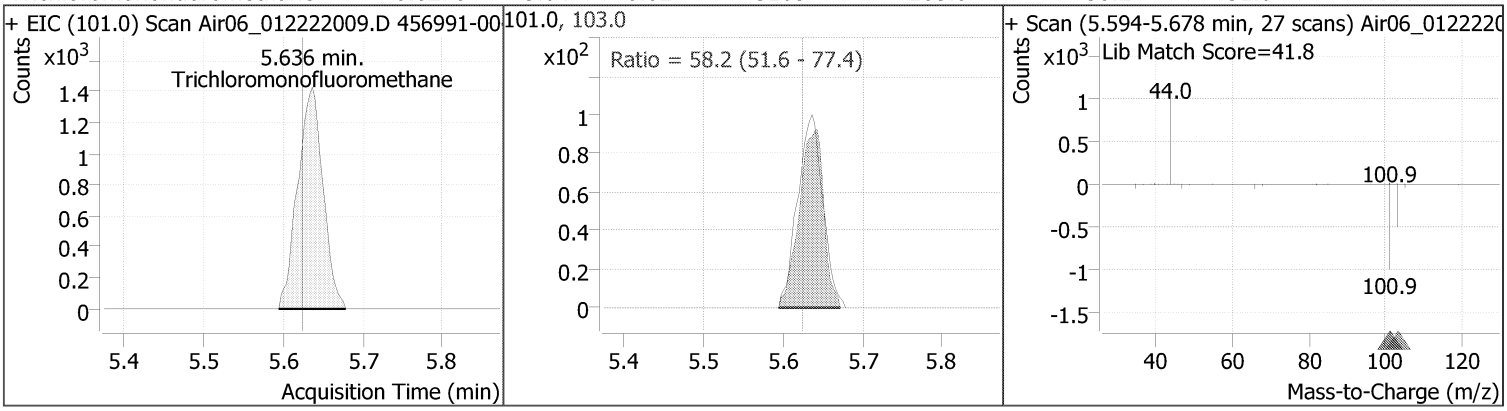

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.4818 | 5.49 | 0.04 | 11529 | 43.0 | 337.6 | 272.1 | 408.2 |
| | | | | | 42.0 | 33.1 | 21.3 | 32.0 |
| | | | | | 39.0 | 17.1 | 10.8 | 16.2 |



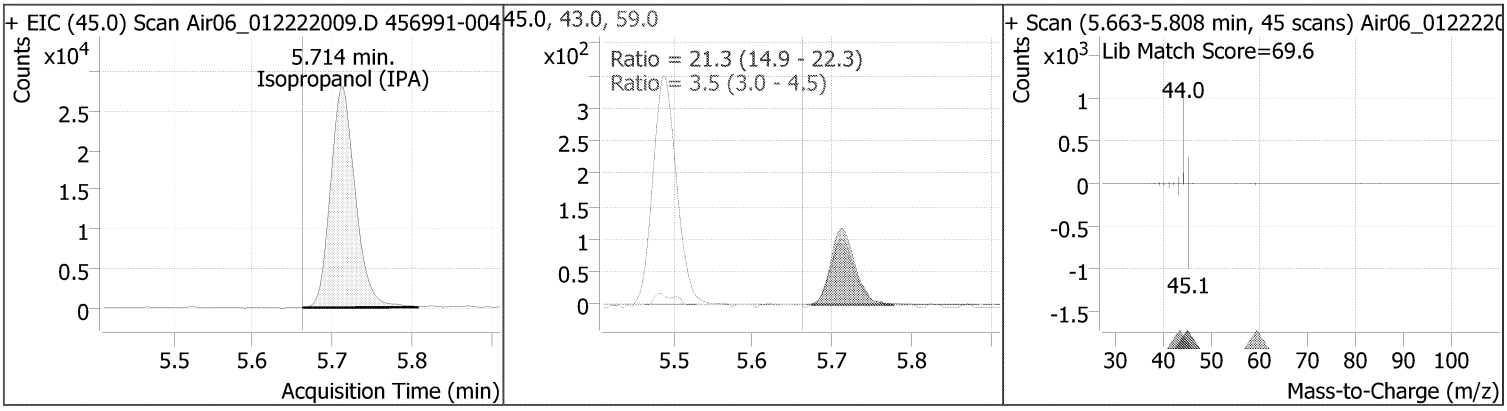



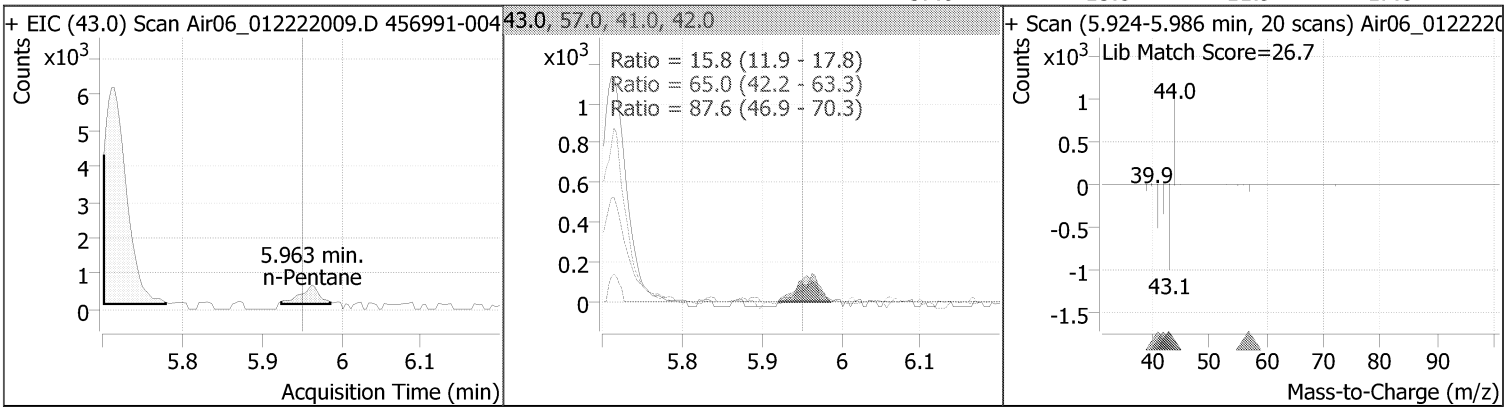
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 0.0270 | 5.64 | 0.02 | 3163 | 103.0 | 58.2 | 51.6 | 77.4 |



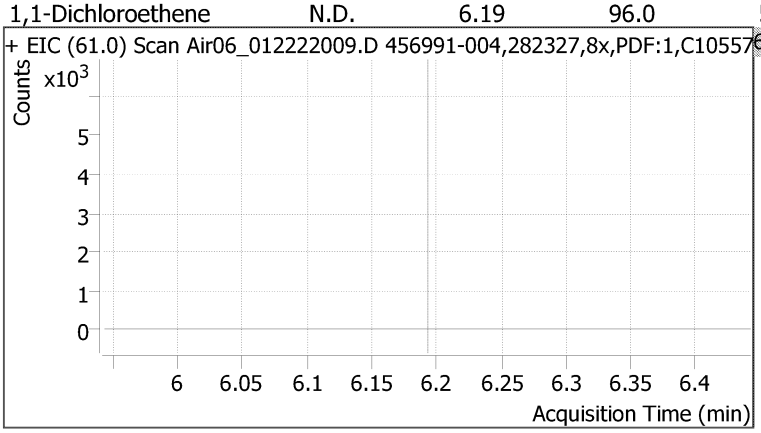

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.7035 | 5.71 | 0.06 | 60289 | 43.0 | 21.3 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.5 | 3.0 | 4.5 |

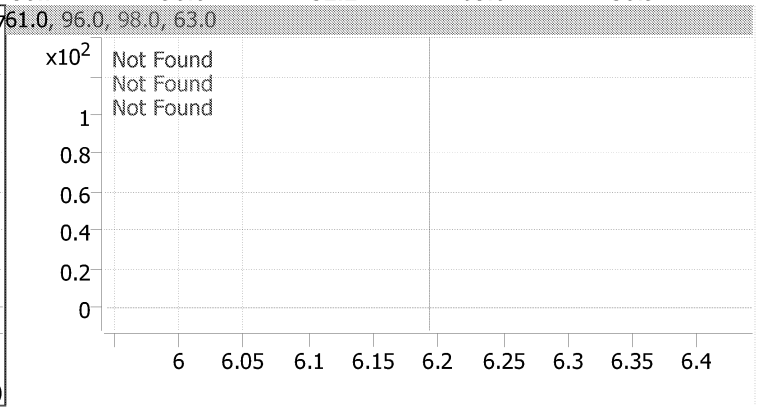



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.0092 | 5.96 | 0.02 | 884 | 42.0 | 87.6 | 46.9 | 70.3 |
| | | | | | 41.0 | 65.0 | 42.2 | 63.3 |
| | | | | | 57.0 | 15.8 | 11.9 | 17.8 |

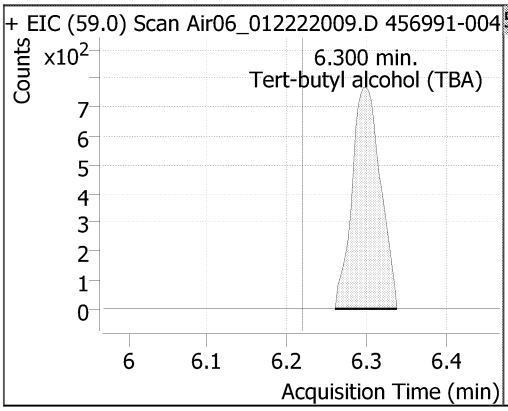


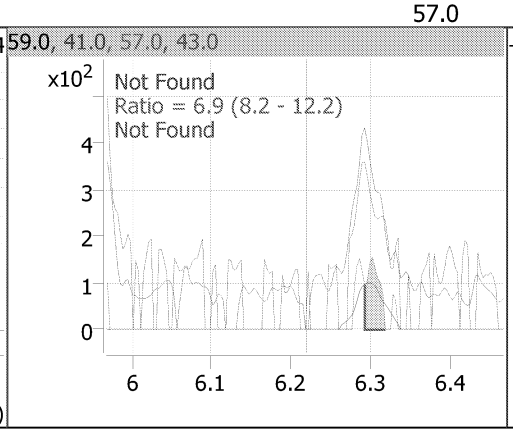
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | N.D. | 6.19 | 96.0 | 50.7 | 98.0 | 32.2 | 63.0 | 30.9 |

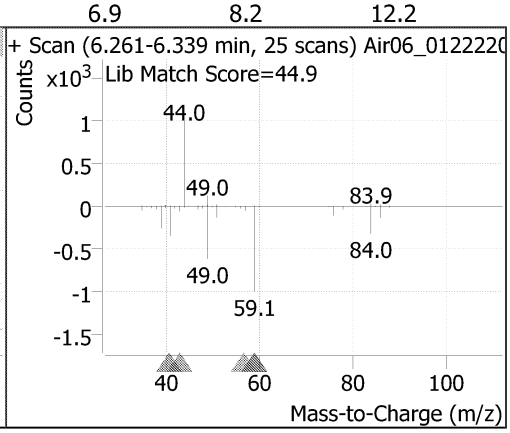


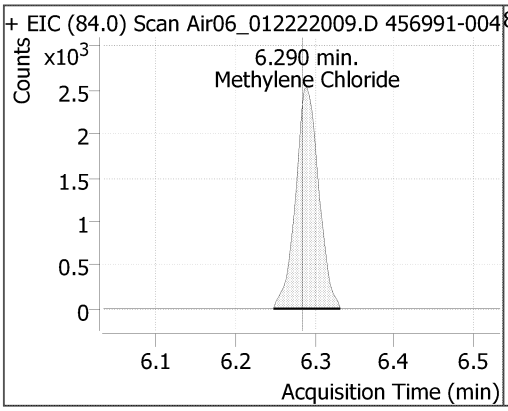

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.0193 | 6.30 | 0.08 | 1917 | 41.0 | | 18.4 | 27.6 |
| | | | | | 43.0 | | 11.5 | 17.3 |
| | | | | | 57.0 | 6.9 | 8.2 | 12.2 |

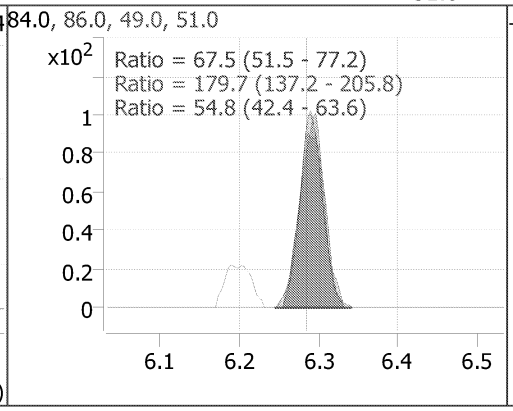


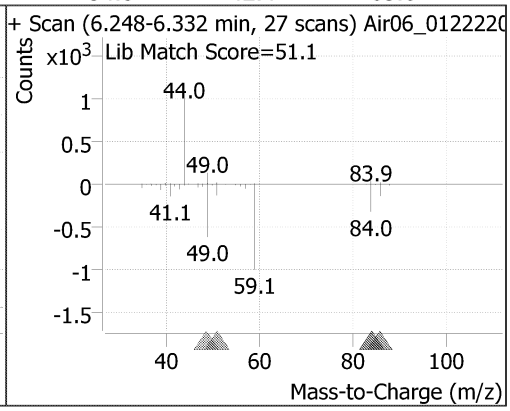



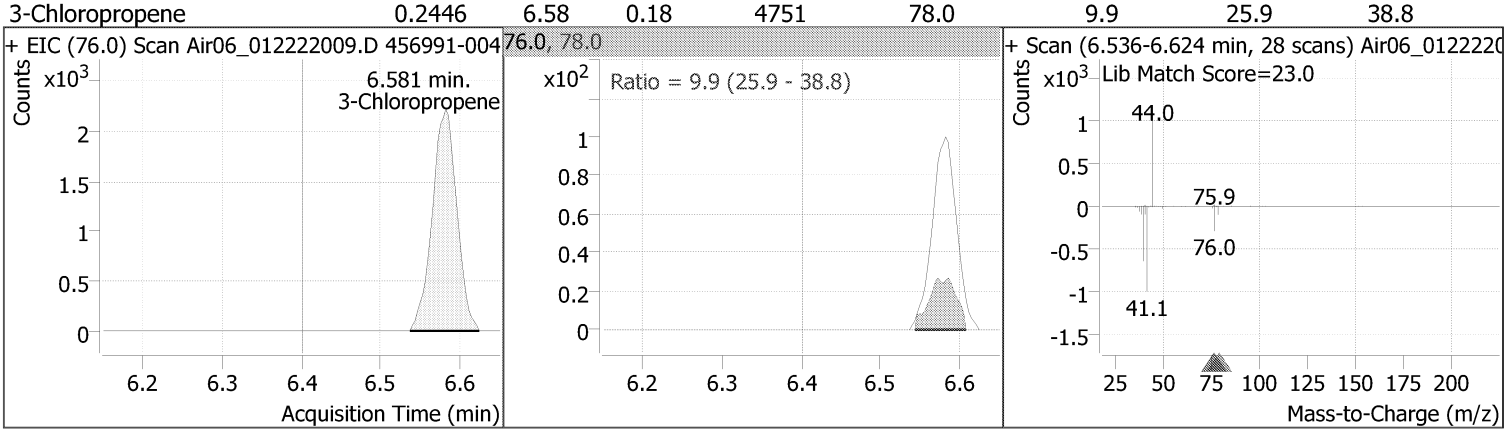

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1216 | 6.29 | 0.01 | 5124 | 49.0 | 179.7 | 137.2 | 205.8 |
| | | | | | 86.0 | 67.5 | 51.5 | 77.2 |
| | | | | | 51.0 | 54.8 | 42.4 | 63.6 |



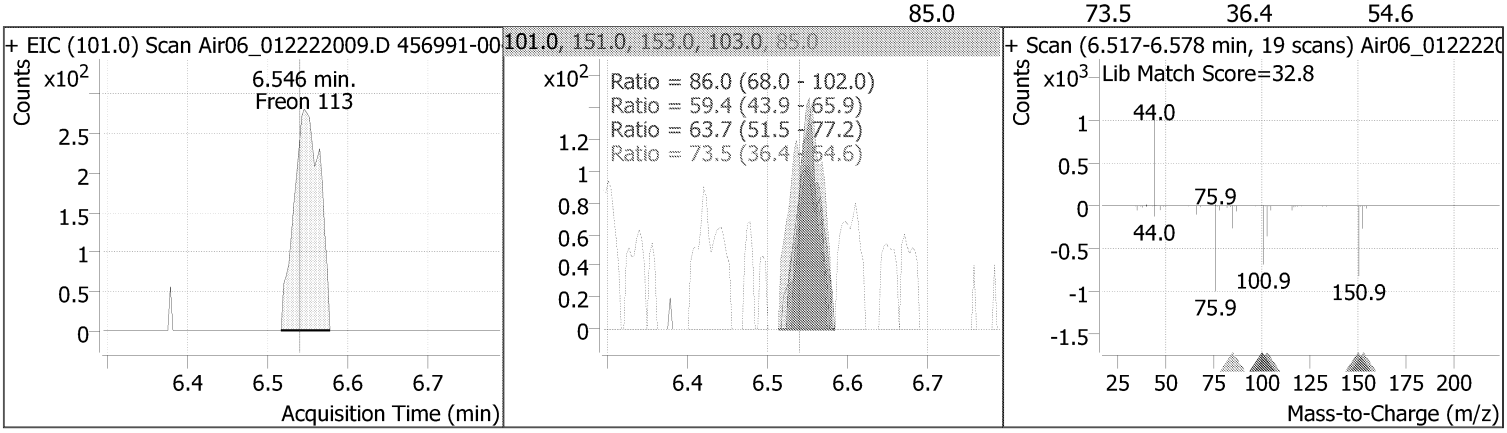



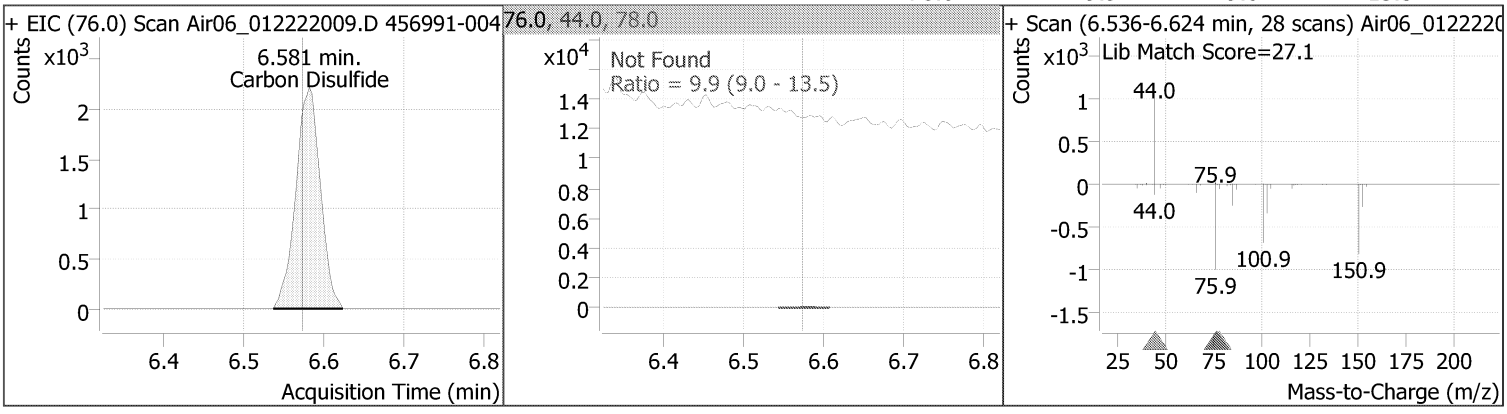
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 0.2446 | 6.58 | 0.18 | 4751 | 78.0 | 9.9 | 25.9 | 38.8 |



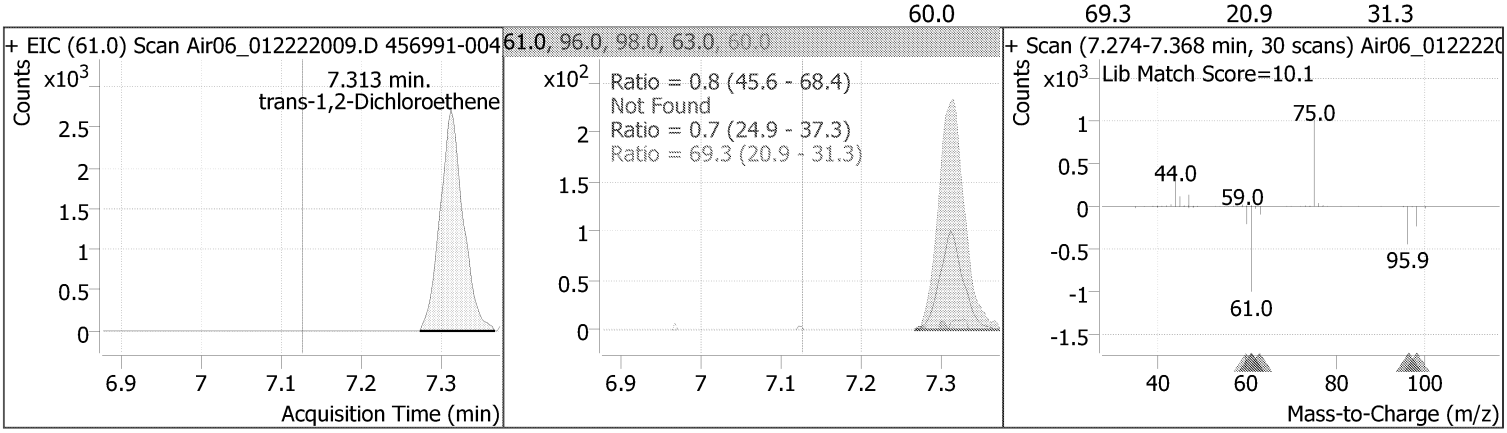

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.0069 | 6.55 | 0.01 | 644 | 151.0 | 86.0 | 68.0 | 102.0 |
| | | | | | 103.0 | 63.7 | 51.5 | 77.2 |
| | | | | | 153.0 | 59.4 | 43.9 | 65.9 |
| | | | | | 85.0 | 73.5 | 36.4 | 54.6 |



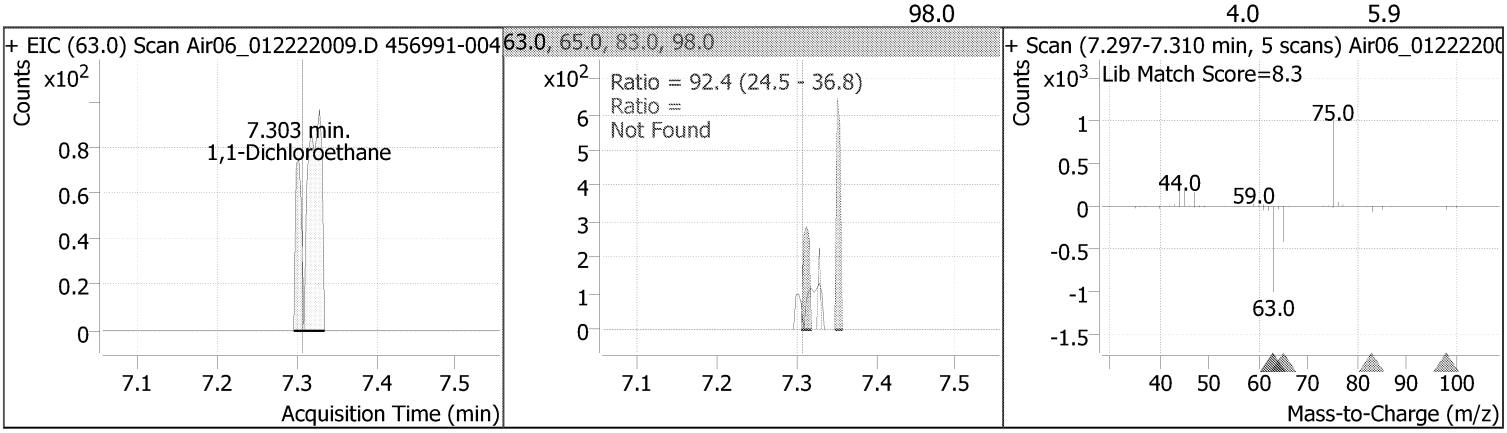

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.0390 | 6.58 | 0.01 | 4751 | 44.0 | | 13.1 | 19.7 |
| | | | | | 78.0 | 9.9 | 9.0 | 13.5 |



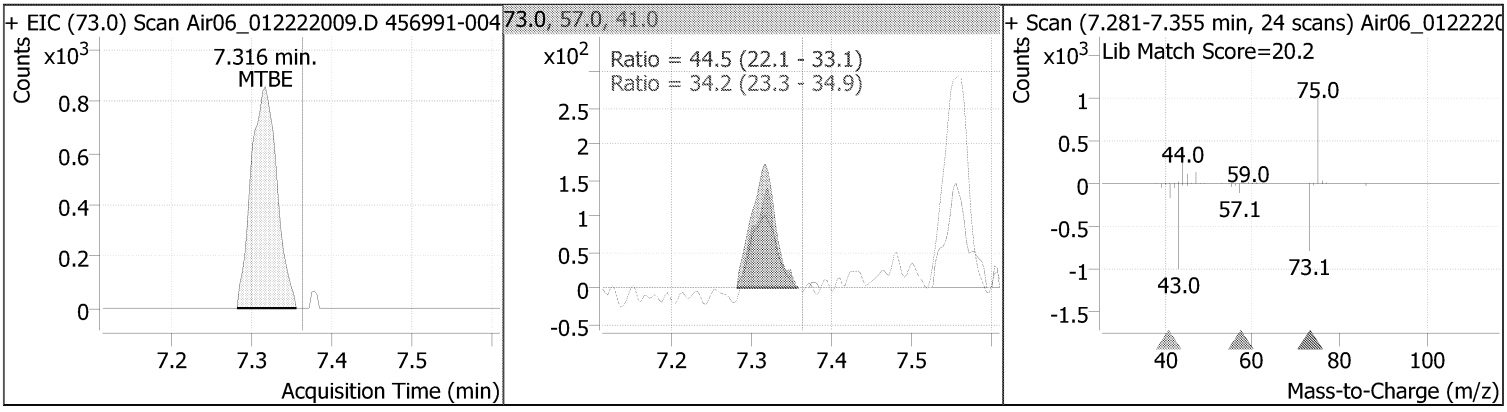
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.0753 | 7.31 | 0.19 | 5488 | 96.0 | 0.8 | 45.6 | 68.4 |
| | | | | | 98.0 | | 29.2 | 43.8 |
| | | | | | 63.0 | 0.7 | 24.9 | 37.3 |
| | | | | | 60.0 | 69.3 | 20.9 | 31.3 |



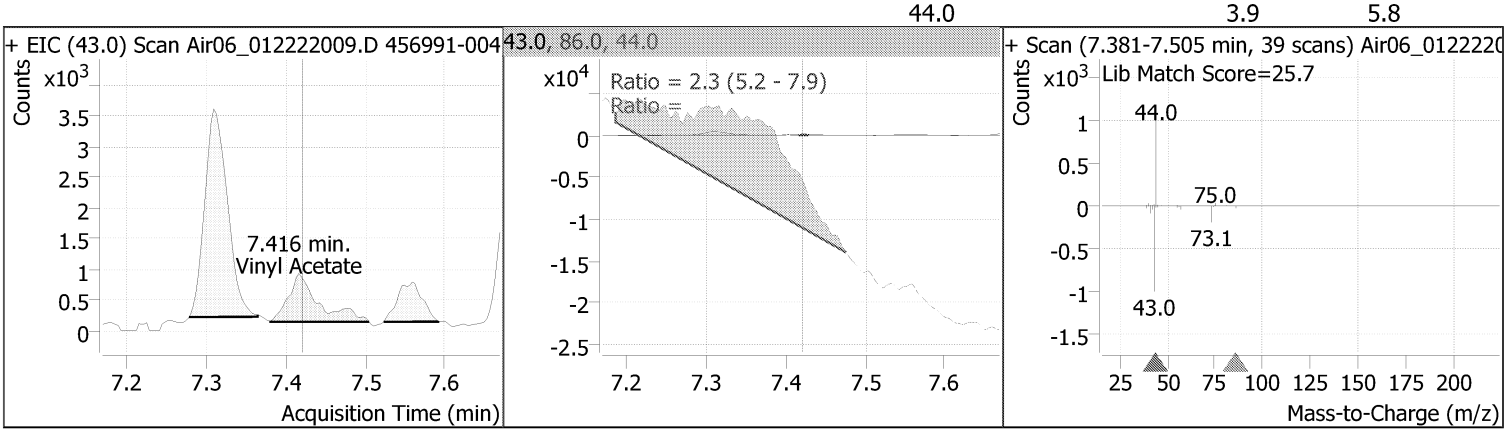

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.0004 | 7.30 | 0.00 | 39 | 65.0 | 92.4 | 24.5 | 36.8 |
| | | | | | 83.0 | | 9.7 | 14.6 |
| | | | | | 98.0 | | 4.0 | 5.9 |



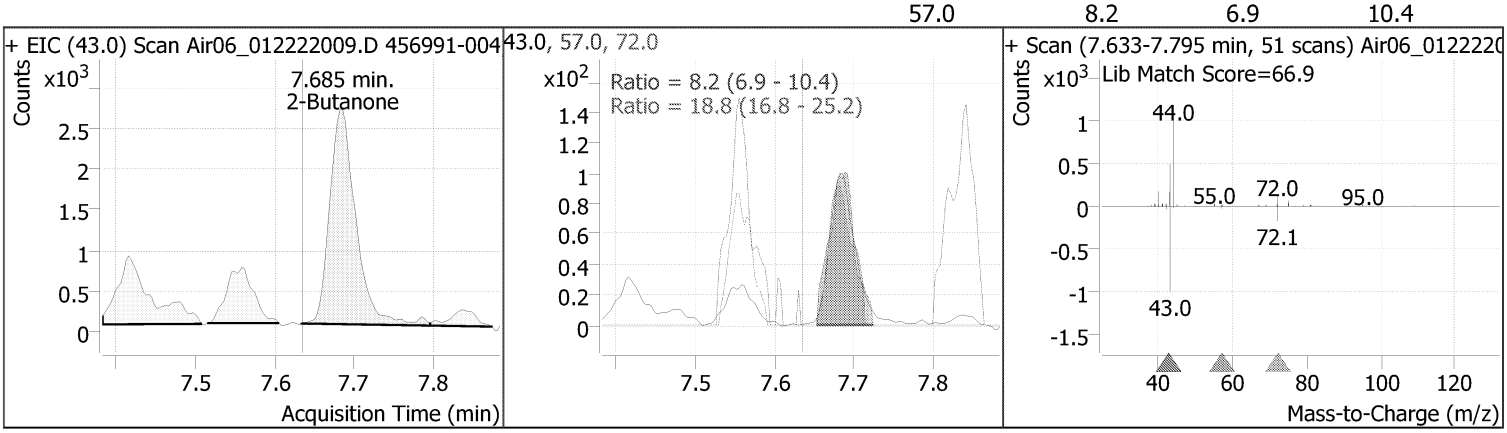

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.0163 | 7.32 | -0.04 | 1929 | 41.0 | 34.2 | 23.3 | 34.9 |
| | | | | | 57.0 | 44.5 | 22.1 | 33.1 |



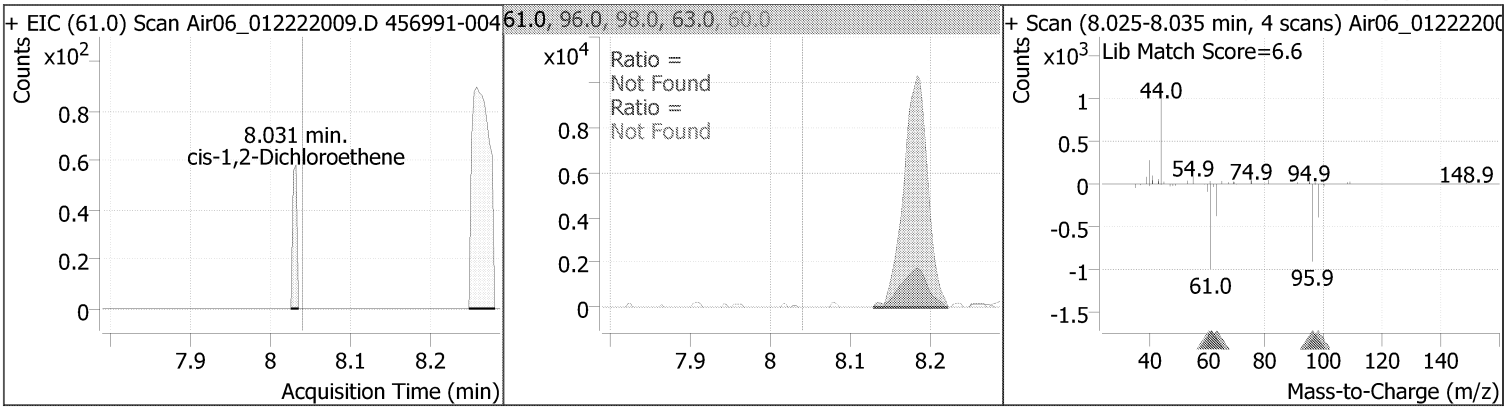
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.0140 | 7.42 | 0.00 | 2101 | 86.0 | 2.3 | 5.2 | 7.9 |
| | | | | | 44.0 | | 3.9 | 5.8 |



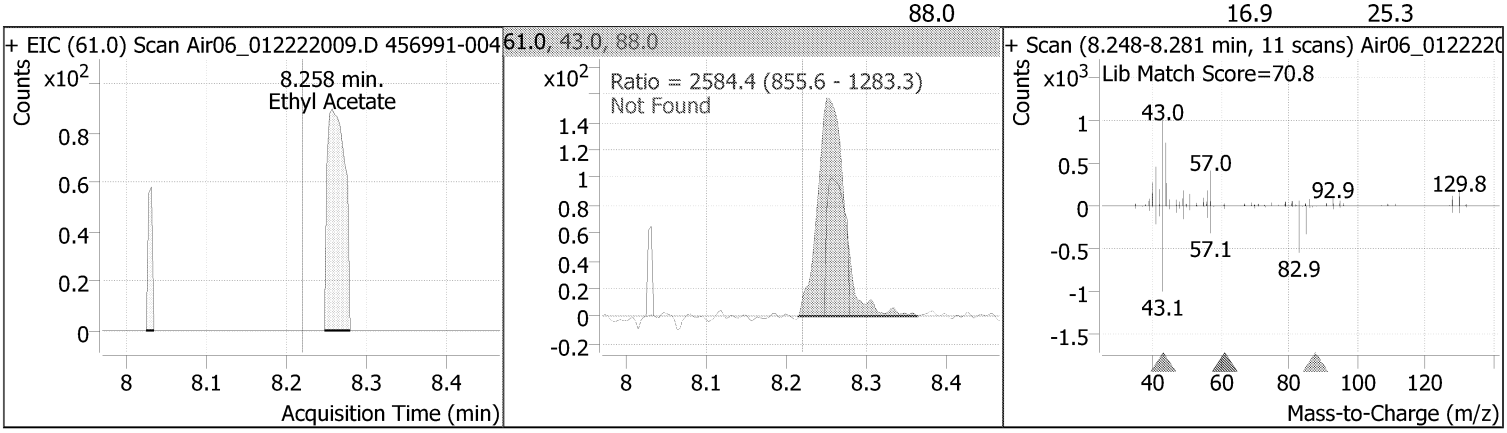

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0530 | 7.69 | 0.06 | 6132 | 72.0 | 18.8 | 16.8 | 25.2 |
| | | | | | 57.0 | 8.2 | 6.9 | 10.4 |



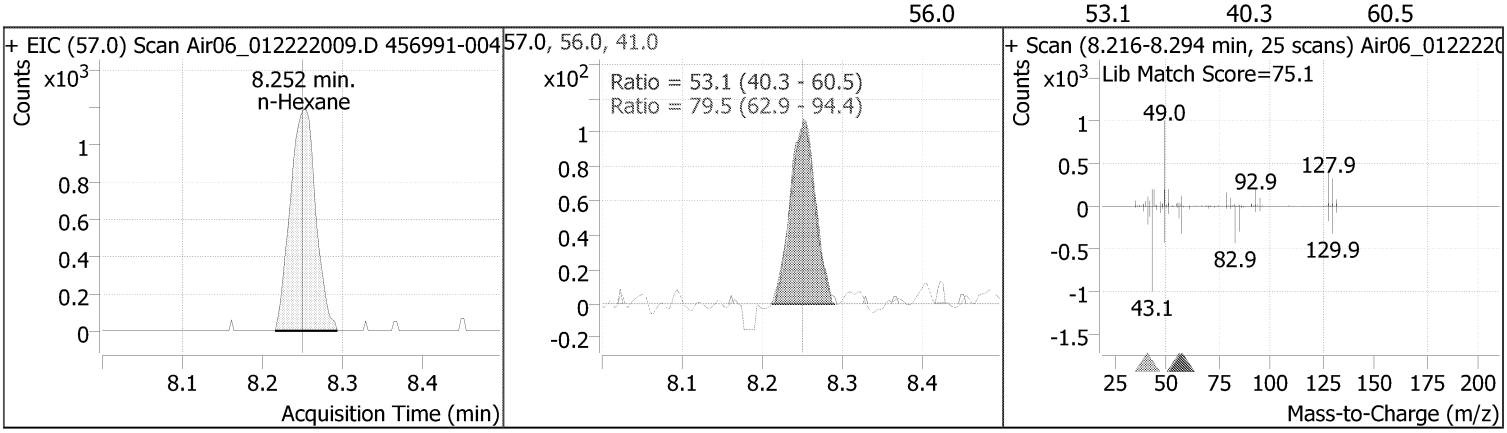

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.0003 | 8.03 | 0.00 | 22 | 96.0 | | 50.5 | 75.8 |
| | | | | | 98.0 | | 32.0 | 48.0 |
| | | | | | 63.0 | | 25.0 | 37.4 |
| | | | | | 60.0 | | 16.7 | 25.0 |



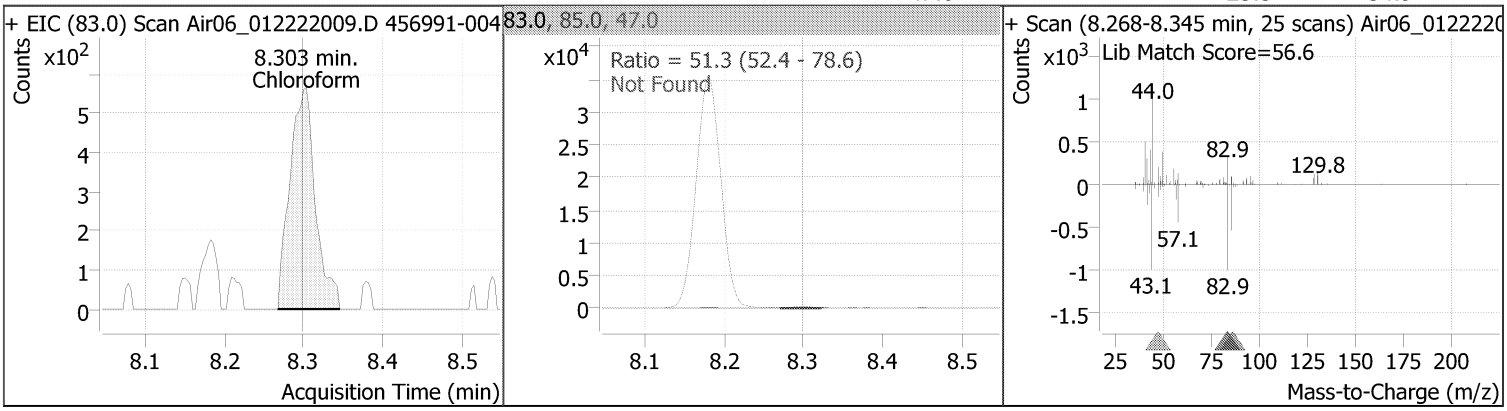
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.0076 | 8.26 | 0.04 | 138 | 43.0 | 2584.4 | 855.6 | 1283.3 |
| | | | | | 88.0 | | 16.9 | 25.3 |



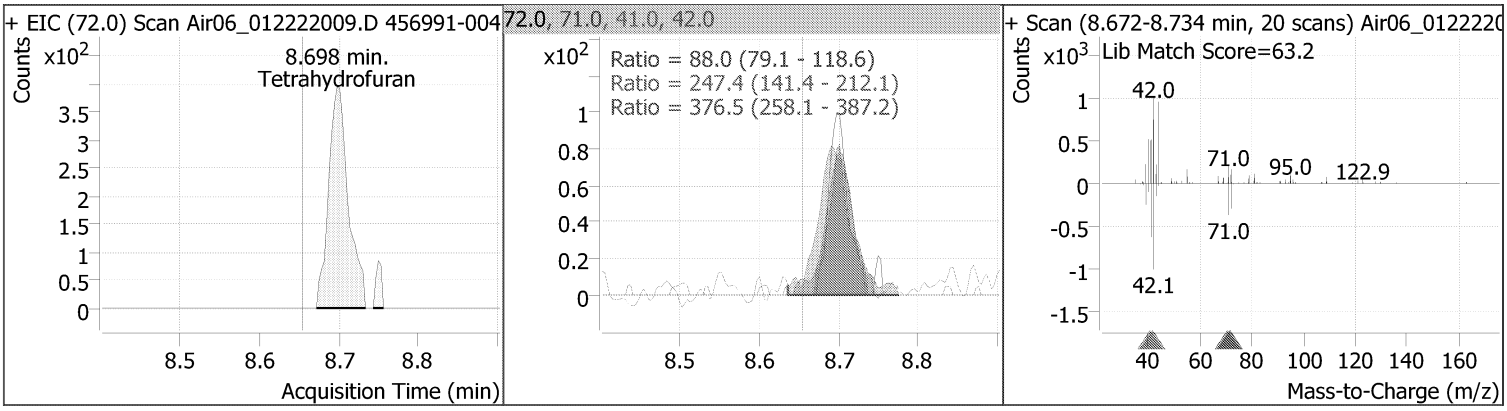

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0317 | 8.25 | 0.01 | 2648 | 41.0 | 79.5 | 62.9 | 94.4 |
| | | | | | 56.0 | 53.1 | 40.3 | 60.5 |



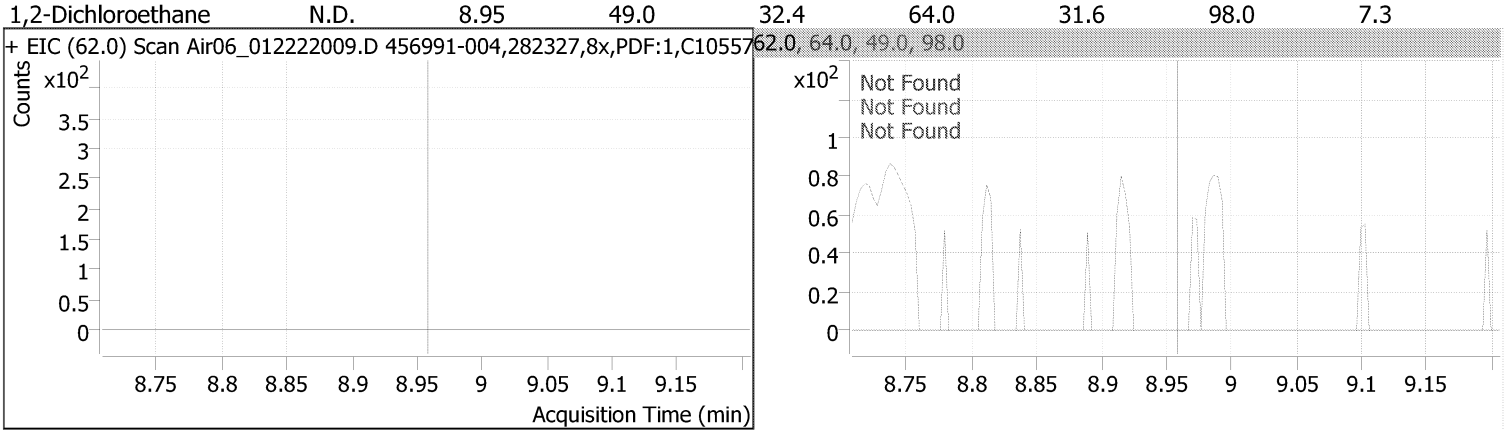

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0133 | 8.30 | 0.01 | 1256 | 85.0 | 51.3 | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



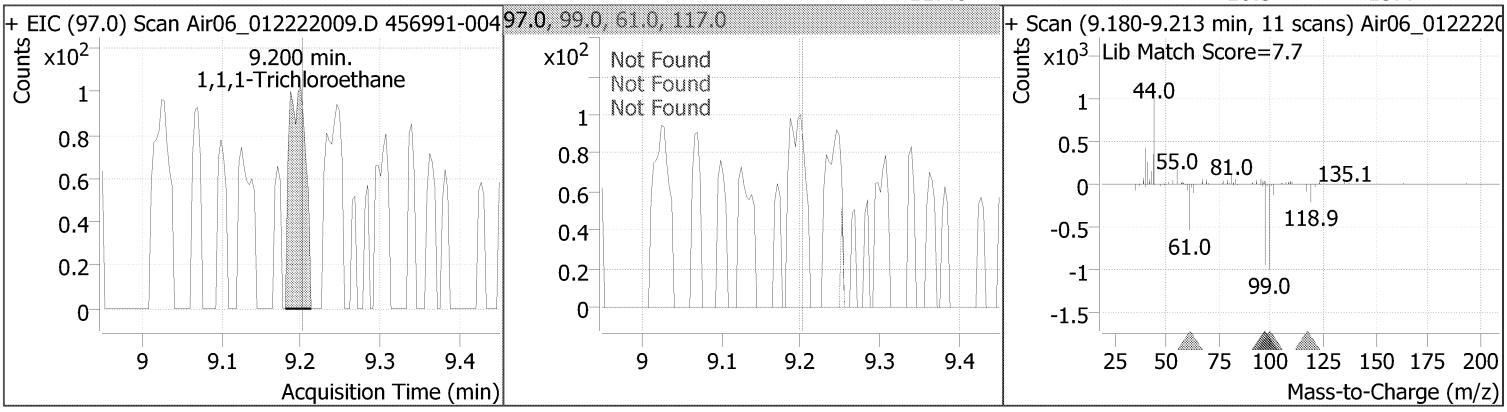
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.0329 | 8.70 | 0.05 | 683 | 42.0 | 376.5 | 258.1 | 387.2 |
| | | | | | 41.0 | 247.4 | 141.4 | 212.1 |
| | | | | | 71.0 | 88.0 | 79.1 | 118.6 |



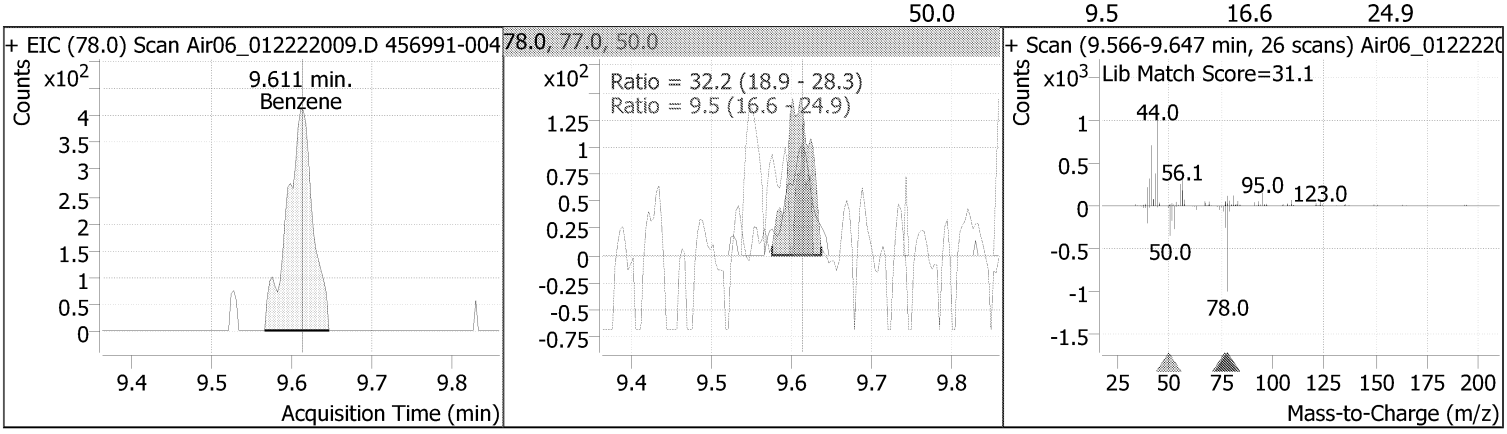

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | N.D. | 8.95 | 49.0 | 32.4 | 64.0 | 31.6 | 98.0 | 7.3 |



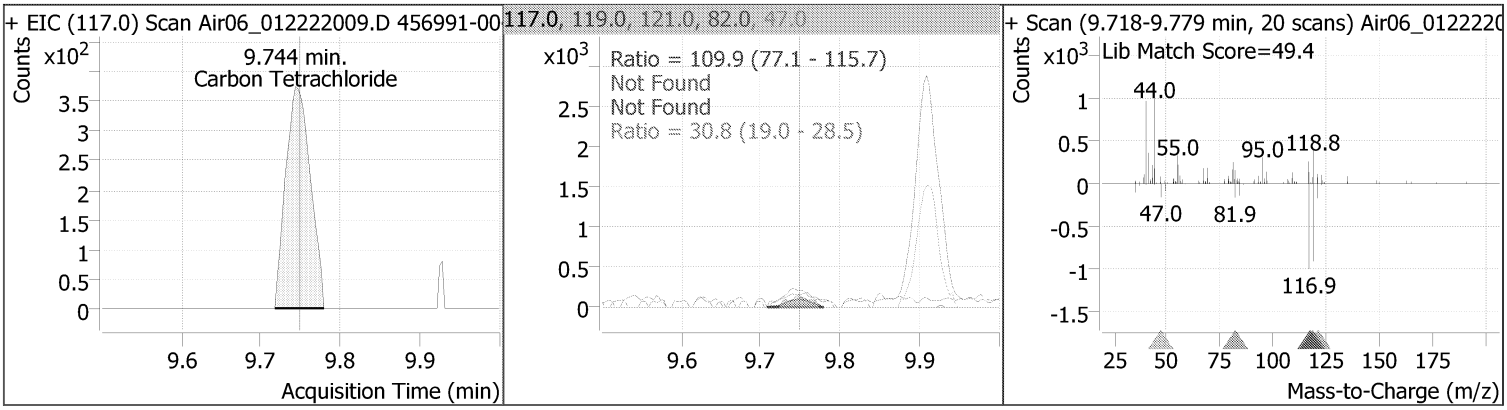

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.0016 | 9.20 | 0.00 | 147 | 99.0 | | 51.4 | 77.0 |
| | | | | | 61.0 | | 38.6 | 57.9 |
| | | | | | 117.0 | | 10.3 | 15.4 |



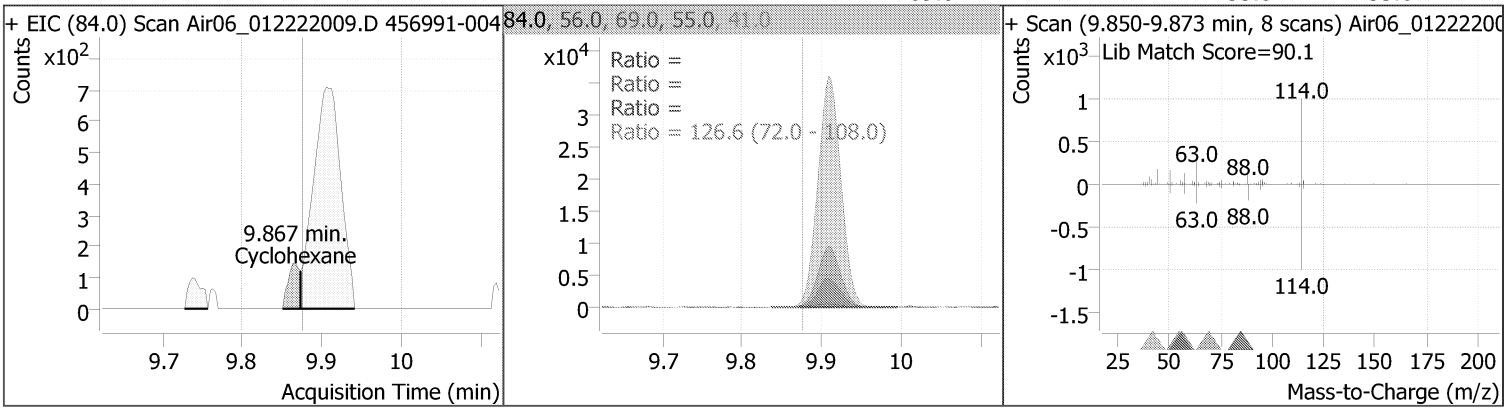
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0070 | 9.61 | 0.00 | 944 | 77.0 | 32.2 | 18.9 | 28.3 |
| | | | | | 50.0 | 9.5 | 16.6 | 24.9 |



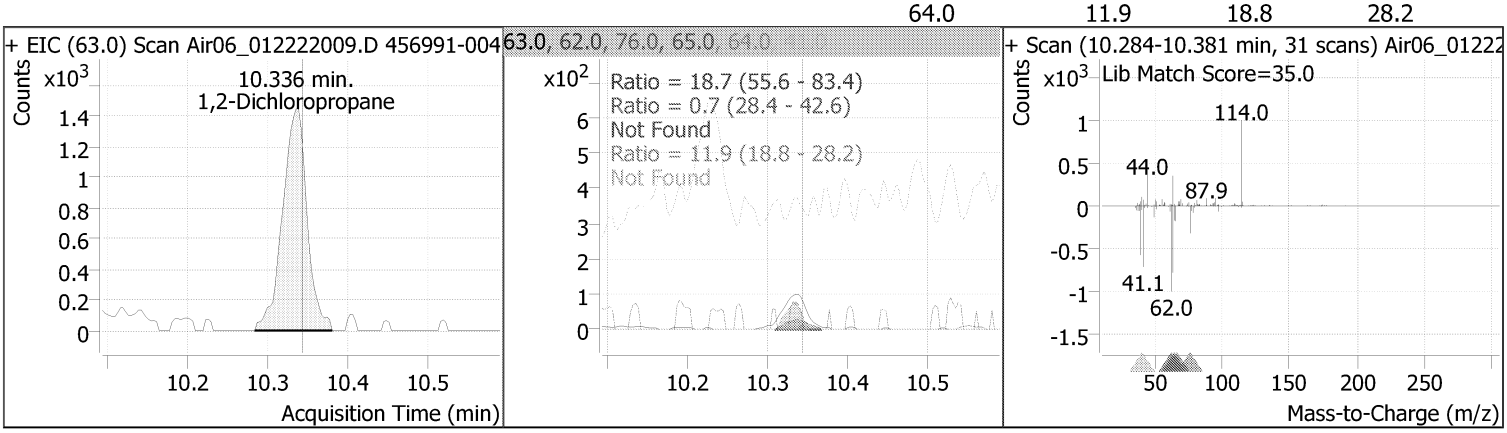

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.0083 | 9.74 | 0.00 | 807 | 119.0 | 109.9 | 77.1 | 115.7 |
| | | | | | 121.0 | | 24.8 | 37.3 |
| | | | | | 82.0 | | 19.3 | 28.9 |
| | | | | | 47.0 | 30.8 | 19.0 | 28.5 |



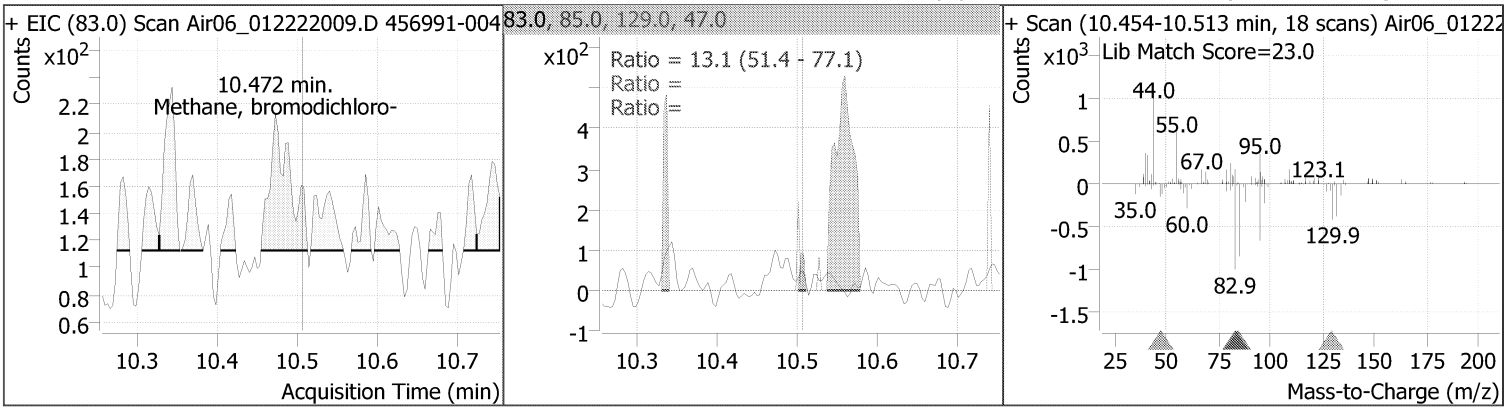

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0025 | 9.87 | 0.00 | 144 | 56.0 | | 131.3 | 197.0 |
| | | | | | 41.0 | 126.6 | 72.0 | 108.0 |
| | | | | | 55.0 | | 48.2 | 72.3 |
| | | | | | 69.0 | | 35.8 | 53.6 |



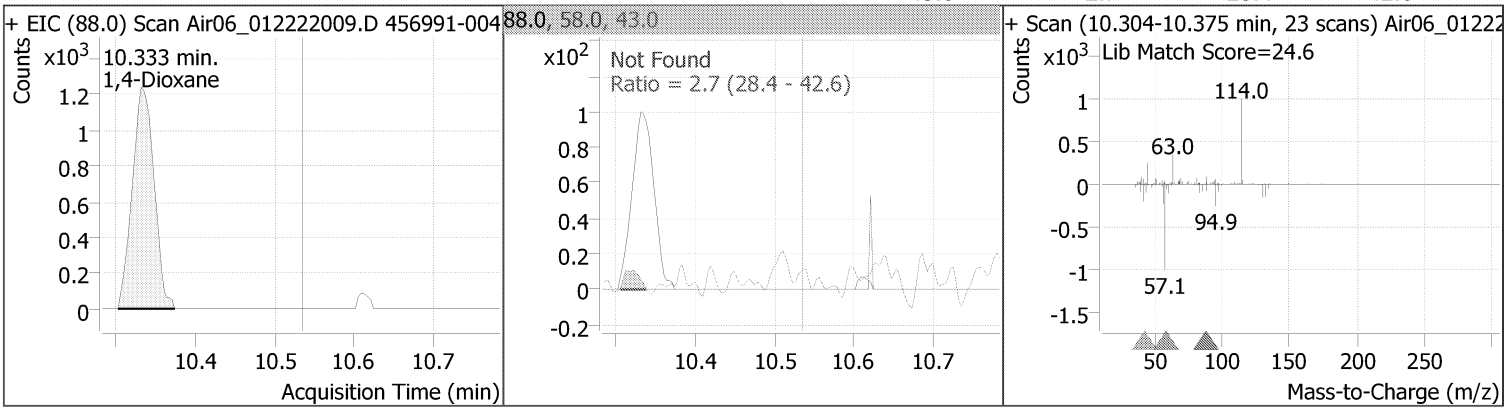
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0483 | 10.34 | -0.01 | 3096 | 62.0 | 18.7 | 55.6 | 83.4 |
| | | | | | 41.0 | | 46.5 | 69.7 |
| | | | | | 76.0 | 0.7 | 28.4 | 42.6 |
| | | | | | 65.0 | | 23.7 | 35.6 |
| | | | | | 64.0 | 11.9 | 18.8 | 28.2 |



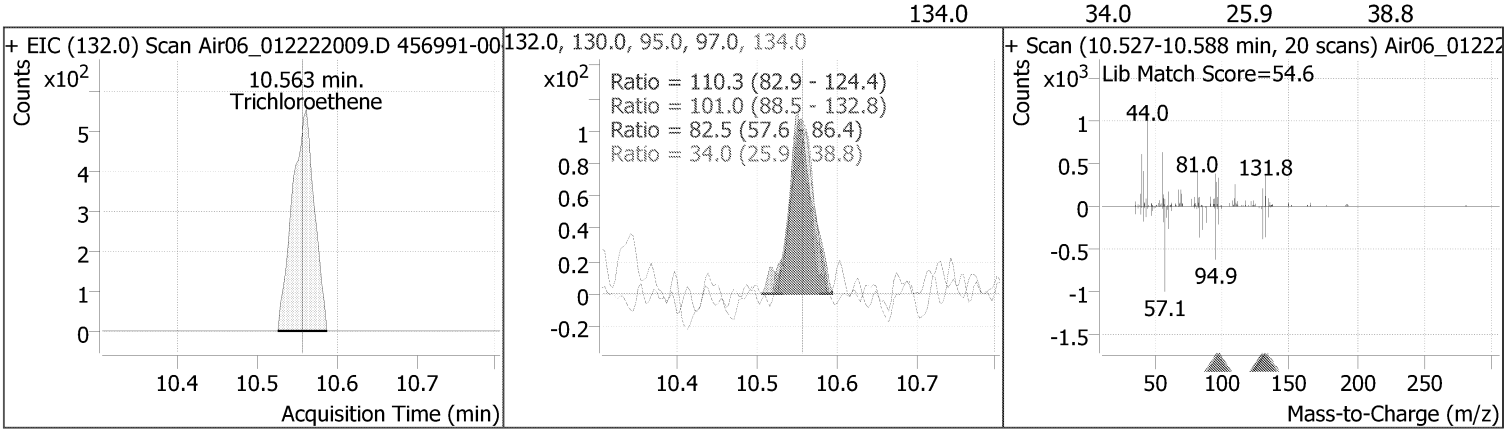

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0017 | 10.47 | -0.03 | 175 | 85.0 | 13.1 | 51.4 | 77.1 |
| | | | | | 47.0 | | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



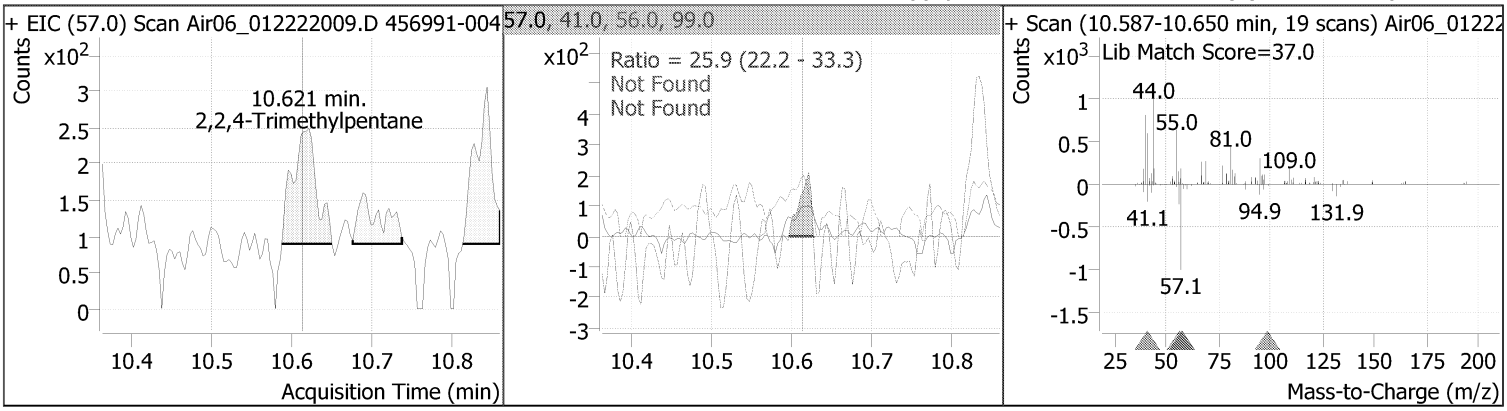

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0705 | 10.33 | -0.20 | 2357 | 58.0 | | 67.8 | 101.6 |
| | | | | | 43.0 | 2.7 | 28.4 | 42.6 |



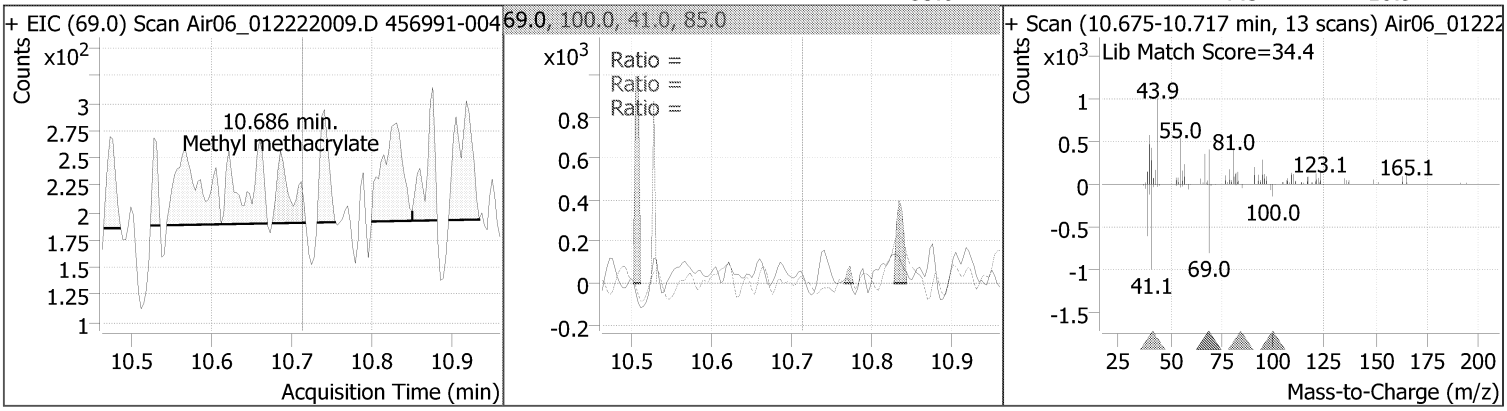
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0163 | 10.56 | 0.01 | 1063 | 95.0 | 101.0 | 88.5 | 132.8 |
| | | | | | 130.0 | 110.3 | 82.9 | 124.4 |
| | | | | | 97.0 | 82.5 | 57.6 | 86.4 |
| | | | | | 134.0 | 34.0 | 25.9 | 38.8 |



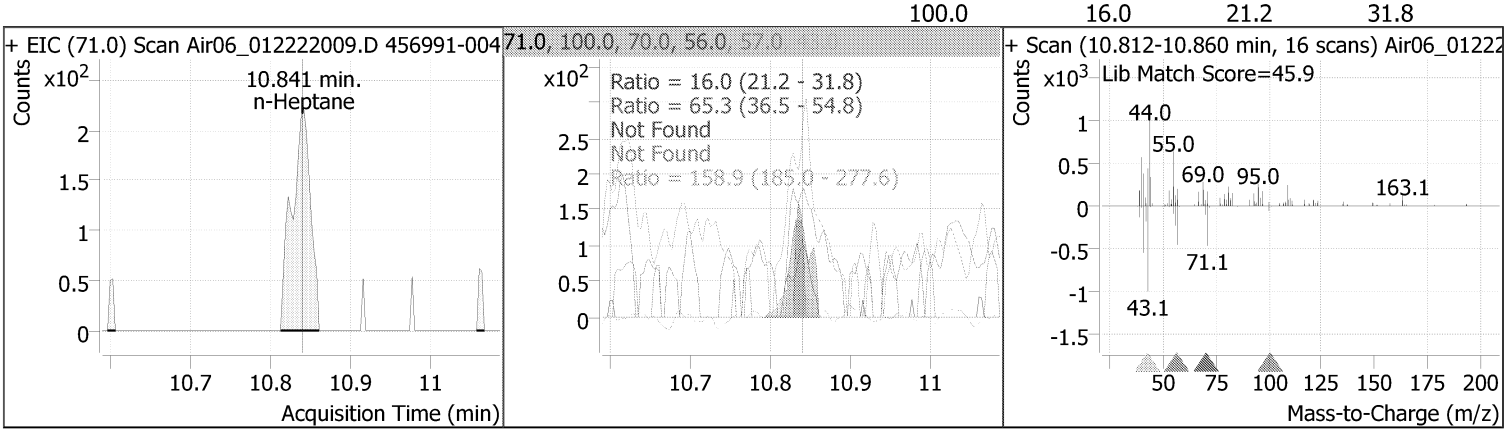

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0011 | 10.62 | 0.01 | 332 | 56.0 | | 25.1 | 37.7 |
| | | | | | 41.0 | 25.9 | 22.2 | 33.3 |
| | | | | | 99.0 | | 3.3 | 4.9 |



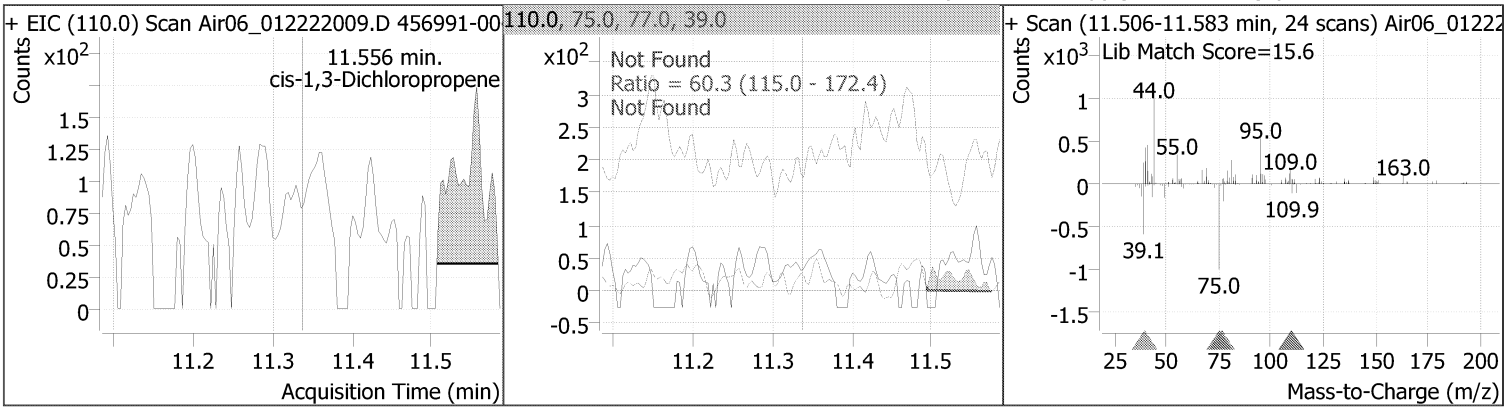

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0014 | 10.69 | -0.03 | 77 | 41.0 | | 129.5 | 194.3 |
| | | | | | 100.0 | | 28.8 | 43.2 |
| | | | | | 85.0 | | 7.3 | 10.9 |



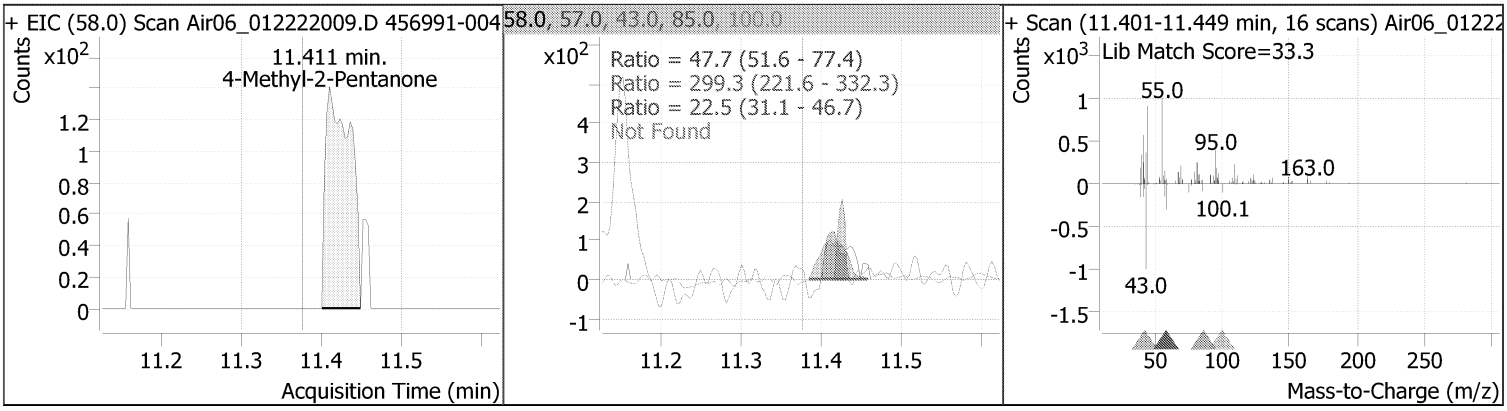
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.0072 | 10.84 | 0.00 | 364 | 43.0 | 158.9 | 185.0 | 277.6 |
| | | | | | 57.0 | | 92.9 | 139.3 |
| | | | | | 56.0 | | 56.5 | 84.8 |
| | | | | | 70.0 | 65.3 | 36.5 | 54.8 |
| | | | | | 100.0 | 16.0 | 21.2 | 31.8 |



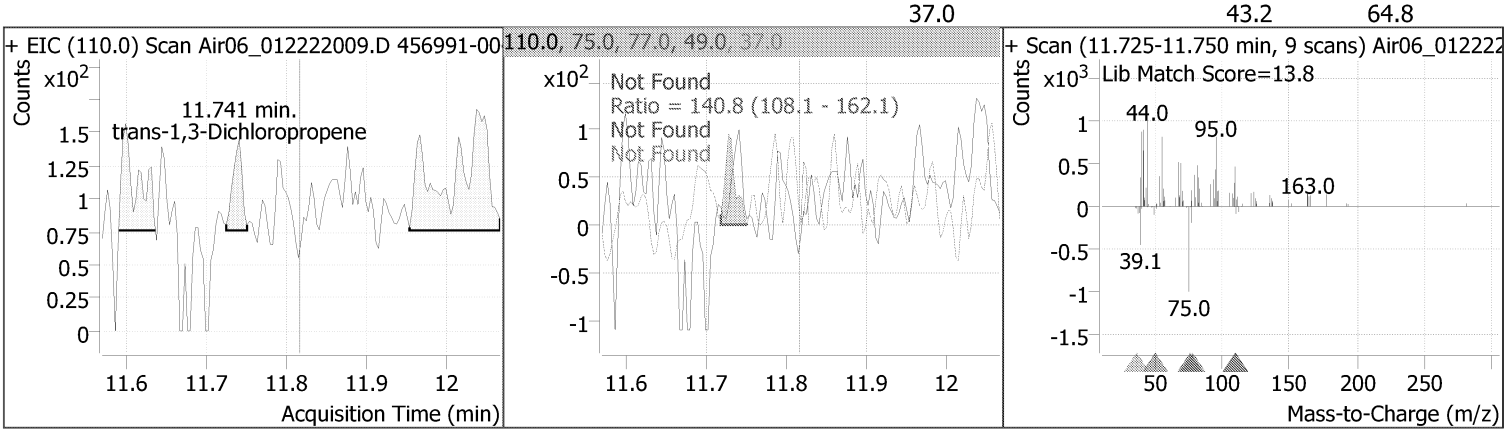

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 0.0150 | 11.56 | 0.22 | 305 | 75.0 | | 361.9 | 542.9 |
| | | | | | 39.0 | | 296.4 | 444.6 |
| | | | | | 77.0 | 60.3 | 115.0 | 172.4 |



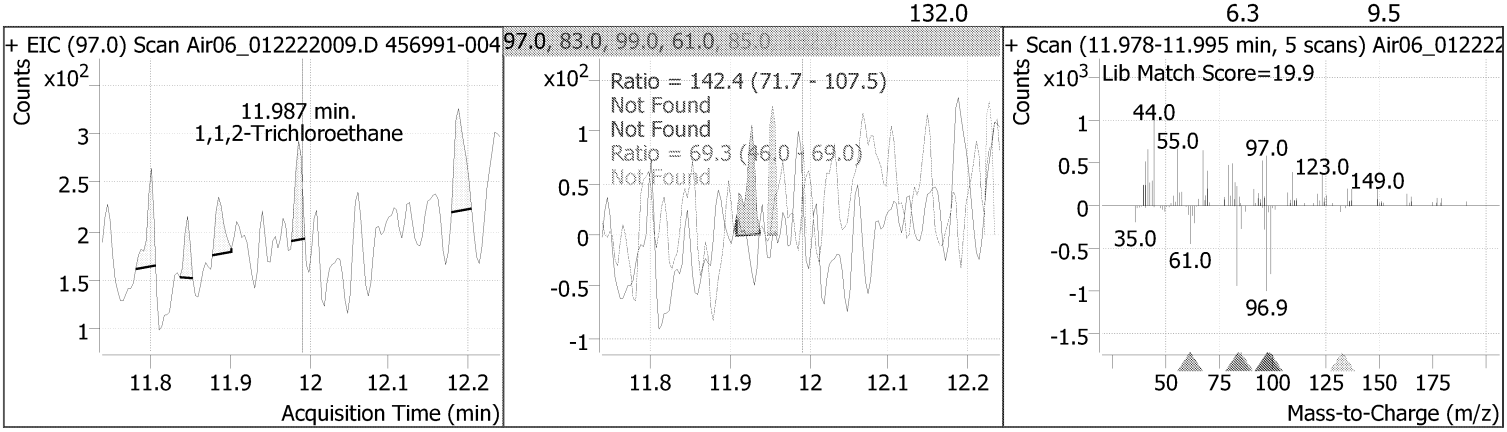

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0054 | 11.41 | 0.04 | 303 | 43.0 | 299.3 | 221.6 | 332.3 |
| | | | | | 57.0 | 47.7 | 51.6 | 77.4 |
| | | | | | 85.0 | 22.5 | 31.1 | 46.7 |
| | | | | | 100.0 | | 21.7 | 32.6 |



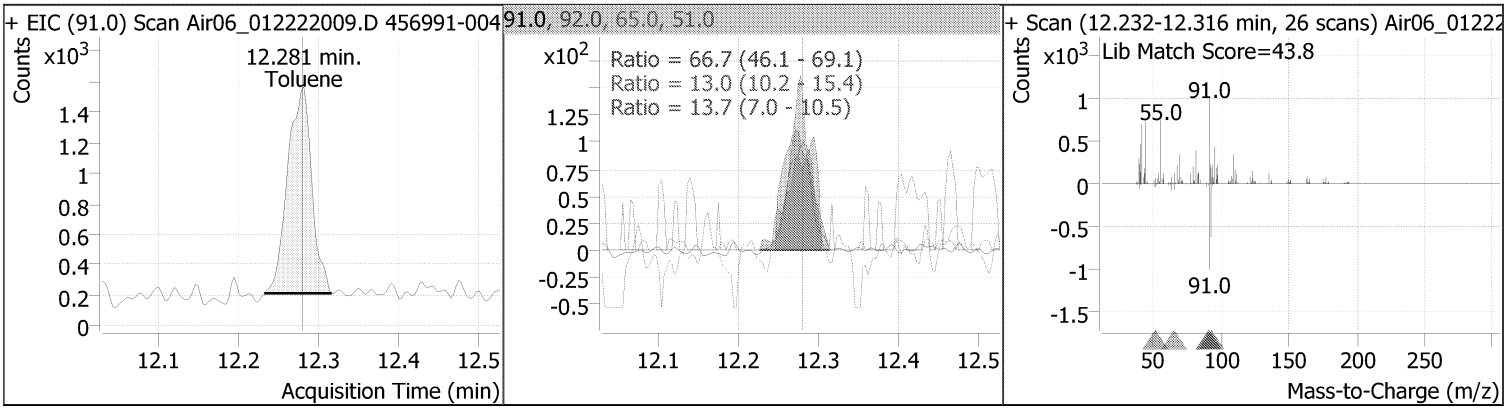
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.0026 | 11.74 | -0.08 | 55 | 75.0 | | 340.2 | 510.3 |
| | | | | | 77.0 | 140.8 | 108.1 | 162.1 |
| | | | | | 49.0 | | 88.0 | 132.1 |
| | | | | | 37.0 | | 43.2 | 64.8 |



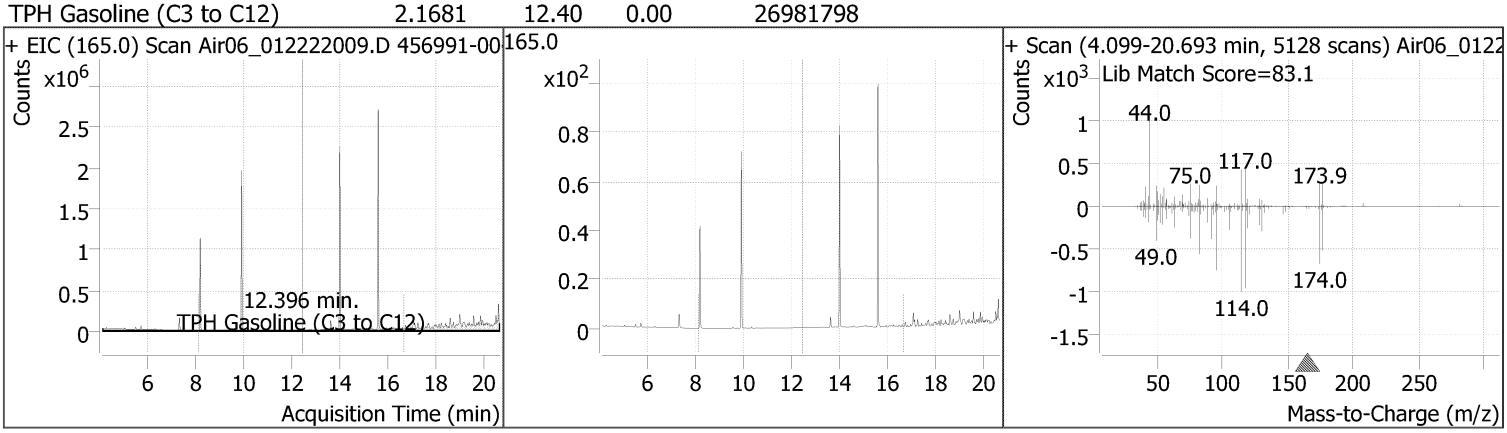

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.0009 | 11.99 | 0.00 | 56 | 83.0 | 142.4 | 71.7 | 107.5 |
| | | | | | 61.0 | | 56.8 | 85.2 |
| | | | | | 99.0 | | 50.1 | 75.2 |
| | | | | | 85.0 | 69.3 | 46.0 | 69.0 |
| | | | | | 132.0 | | 6.3 | 9.5 |



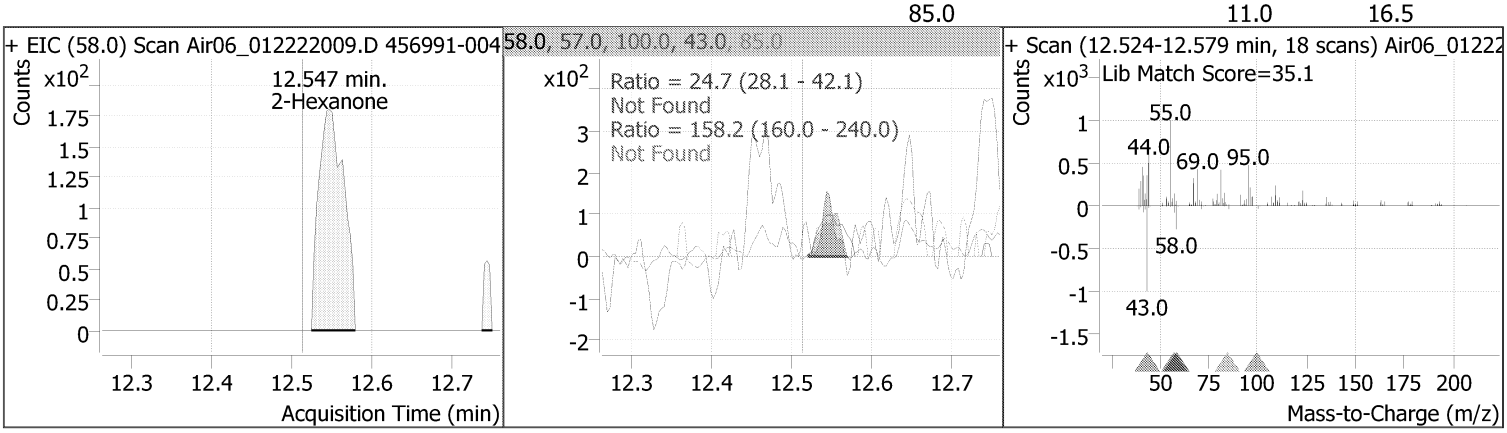

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0153 | 12.28 | 0.00 | 2831 | 92.0 | 66.7 | 46.1 | 69.1 |
| | | | | | 65.0 | 13.0 | 10.2 | 15.4 |
| | | | | | 51.0 | 13.7 | 7.0 | 10.5 |



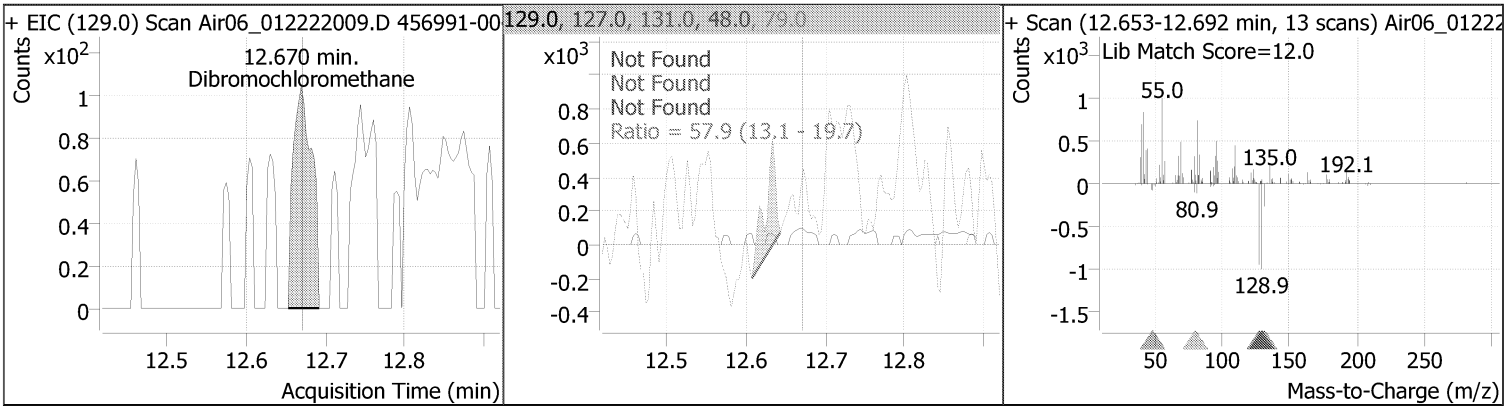
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 2.1681 | 12.40 | 0.00 | 26981798 | | | | |



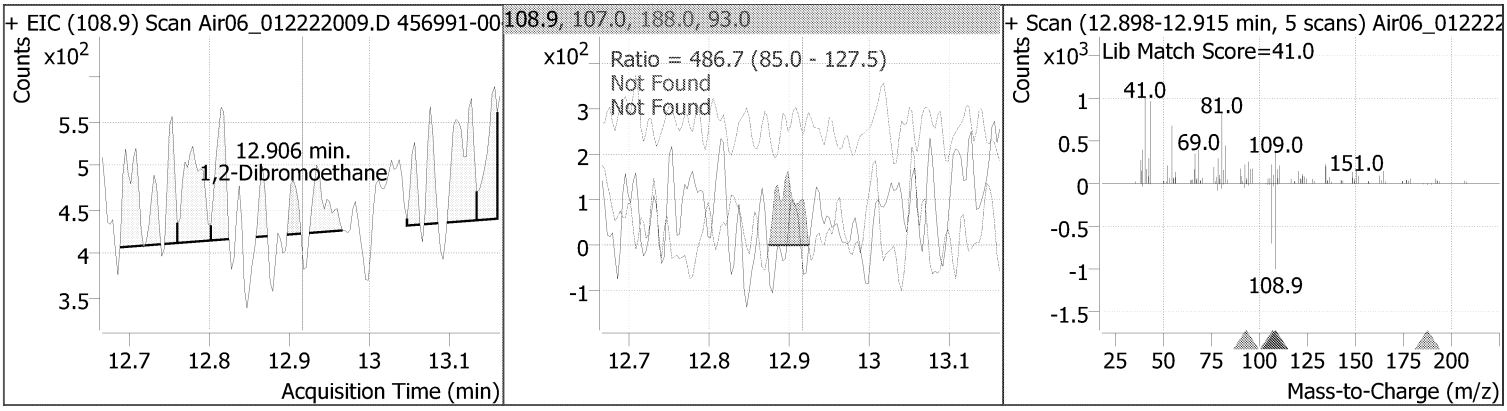

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.0055 | 12.55 | 0.04 | 397 | 43.0 | 158.2 | 160.0 | 240.0 |
| | | | | | 57.0 | 24.7 | 28.1 | 42.1 |
| | | | | | 100.0 | | 11.9 | 17.9 |
| | | | | | 85.0 | | 11.0 | 16.5 |



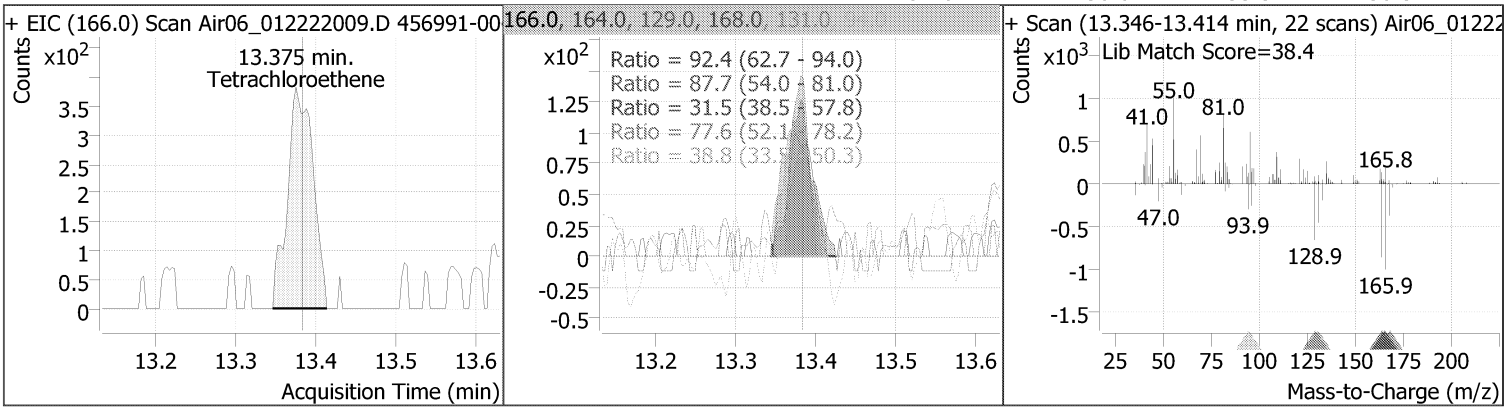

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.0015 | 12.67 | 0.00 | 170 | 127.0 | | 62.0 | 93.0 |
| | | | | | 131.0 | | 19.3 | 29.0 |
| | | | | | 48.0 | | 14.0 | 21.0 |
| | | | | | 79.0 | 57.9 | 13.1 | 19.7 |



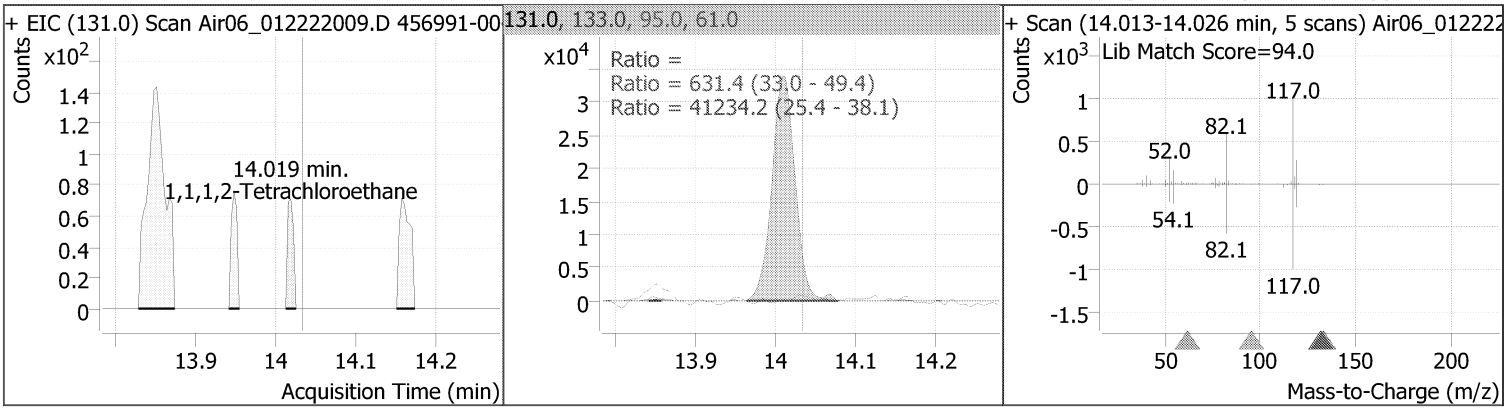
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.0004 | 12.91 | -0.01 | 38 | 107.0 | 486.7 | 85.0 | 127.5 |
| | | | | | 93.0 | | 5.4 | 8.1 |
| | | | | | 188.0 | | 3.5 | 5.2 |



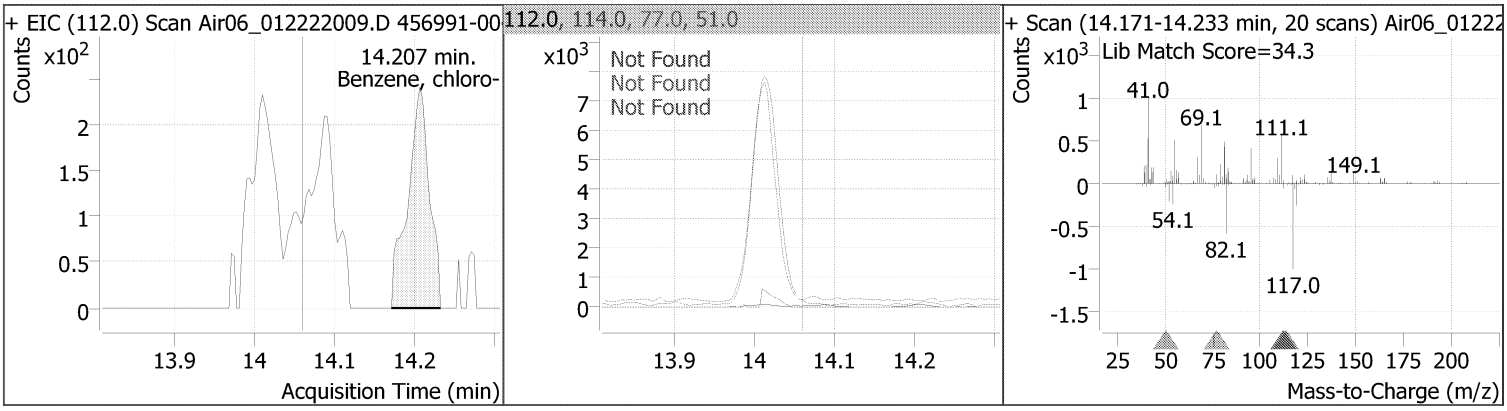

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0090 | 13.38 | -0.01 | 858 | 164.0 | 92.4 | 62.7 | 94.0 |
| | | | | | 129.0 | 87.7 | 54.0 | 81.0 |
| | | | | | 131.0 | 77.6 | 52.1 | 78.2 |
| | | | | | 168.0 | 31.5 | 38.5 | 57.8 |
| | | | | | 94.0 | 38.8 | 33.5 | 50.3 |



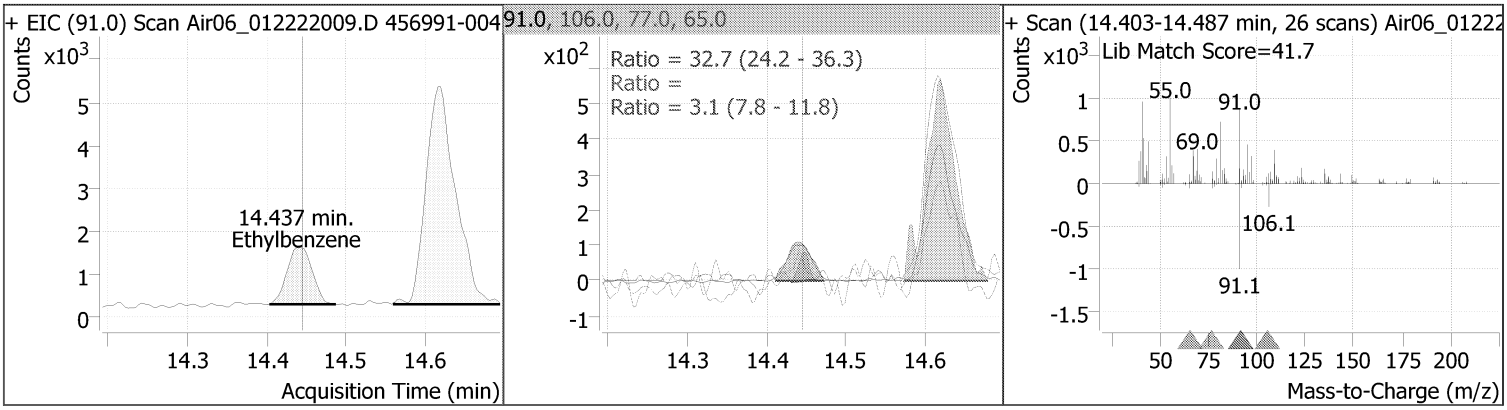

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0006 | 14.02 | -0.02 | 37 | 133.0 | | 76.9 | 115.3 |
| | | | | | 95.0 | 631.4 | 33.0 | 49.4 |
| | | | | | 61.0 | 41234.2 | 25.4 | 38.1 |



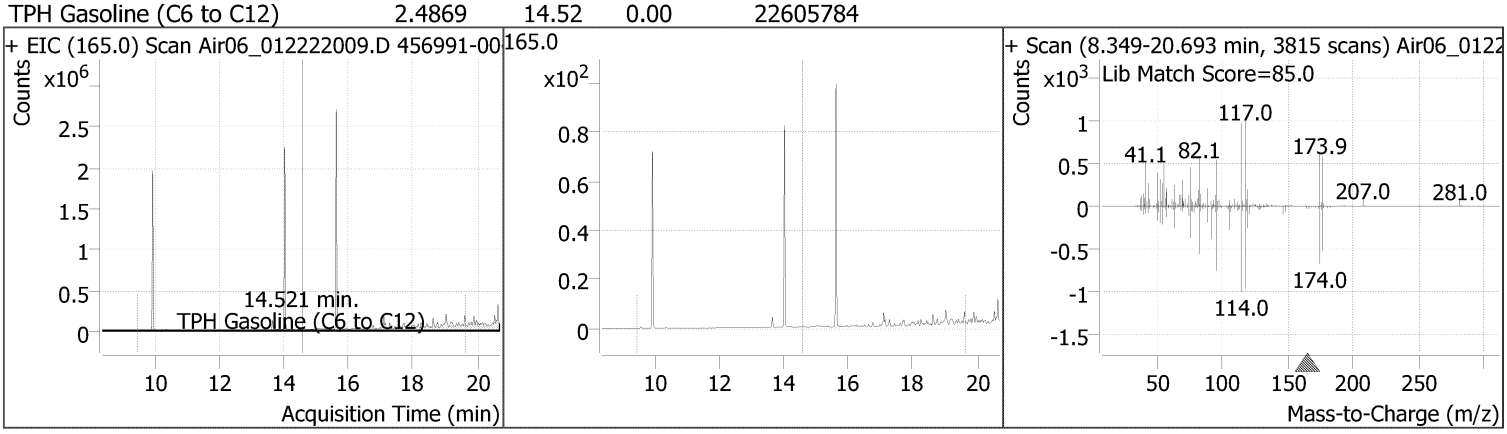
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0034 | 14.21 | 0.15 | 456 | 77.0 | | 50.5 | 75.7 |
| | | | | | 114.0 | | 25.8 | 38.7 |
| | | | | | 51.0 | | 23.4 | 35.1 |



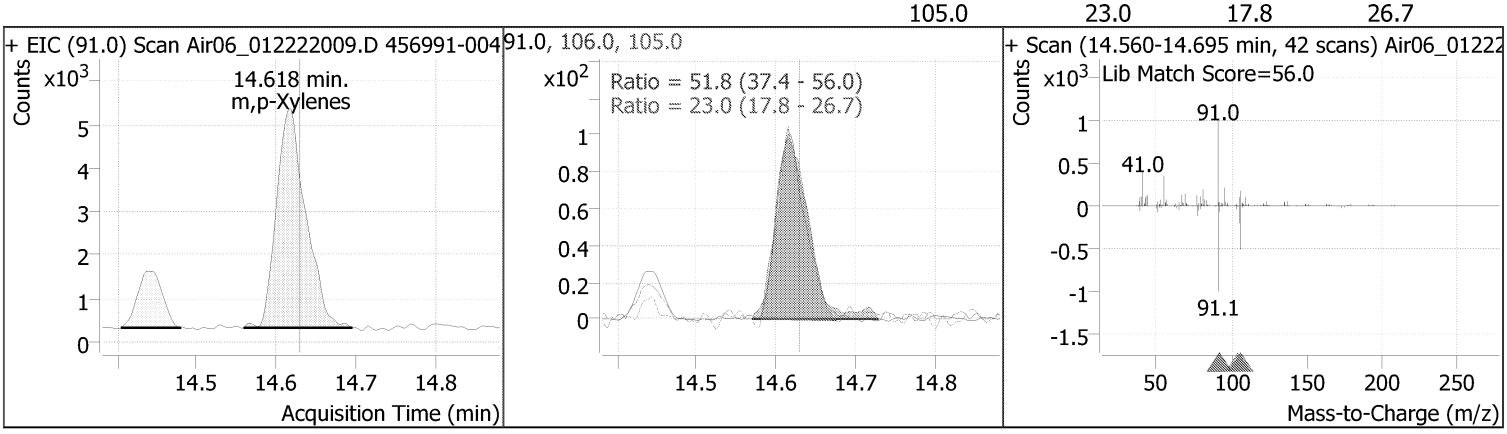

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0139 | 14.44 | -0.01 | 2918 | 106.0 | 32.7 | 24.2 | 36.3 |
| | | | | | 65.0 | 3.1 | 7.8 | 11.8 |
| | | | | | 77.0 | | 7.1 | 10.6 |



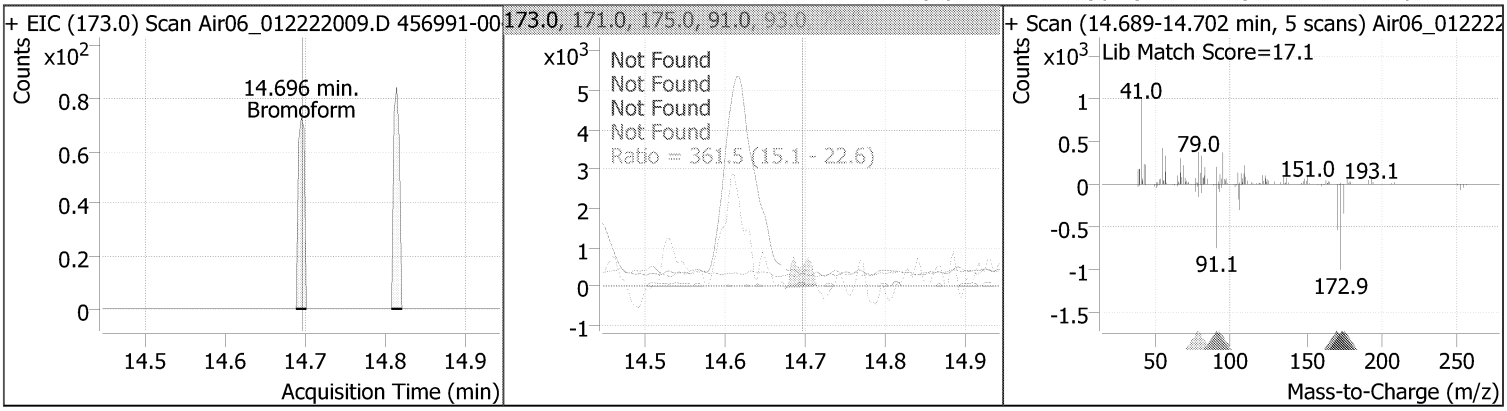

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 2.4869 | 14.52 | 0.00 | 22605784 | | | | |



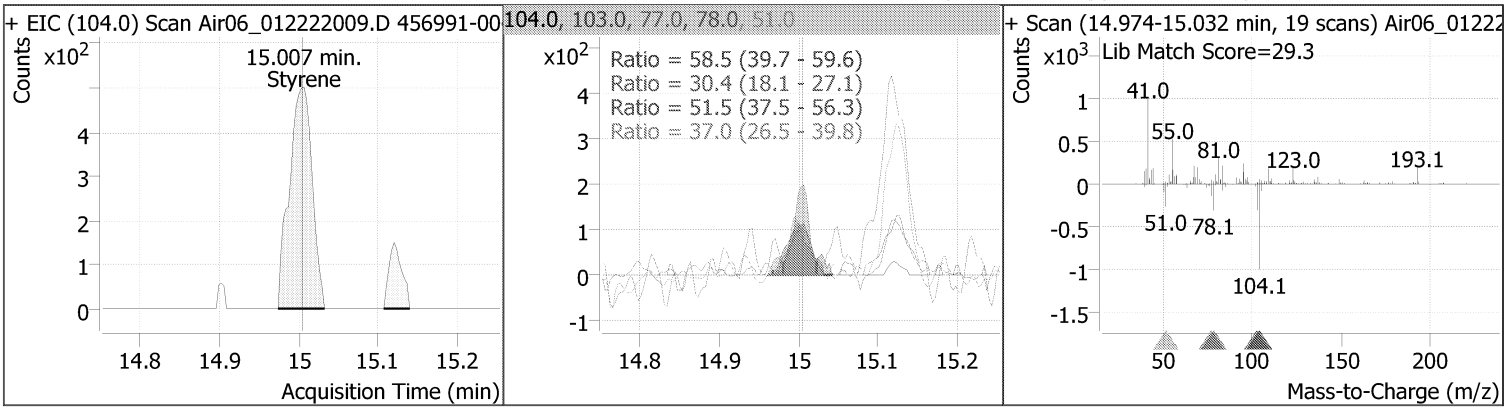
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.0766 | 14.62 | -0.02 | 12955 | 106.0 | 51.8 | 37.4 | 56.0 |
| | | | | | 105.0 | 23.0 | 17.8 | 26.7 |



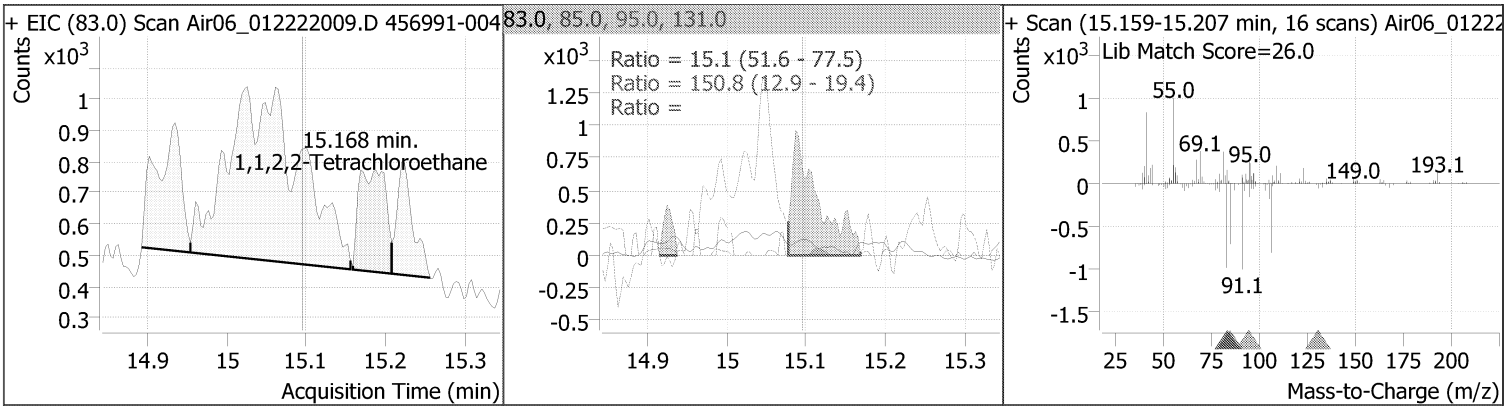

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.0003 | 14.70 | 0.00 | 40 | 171.0 | | 41.0 | 61.5 |
| | | | | | 175.0 | | 39.2 | 58.9 |
| | | | | | 93.0 | | 15.4 | 23.1 |
| | | | | | 91.0 | | 15.2 | 22.8 |
| | | | | | 79.0 | 361.5 | 15.1 | 22.6 |



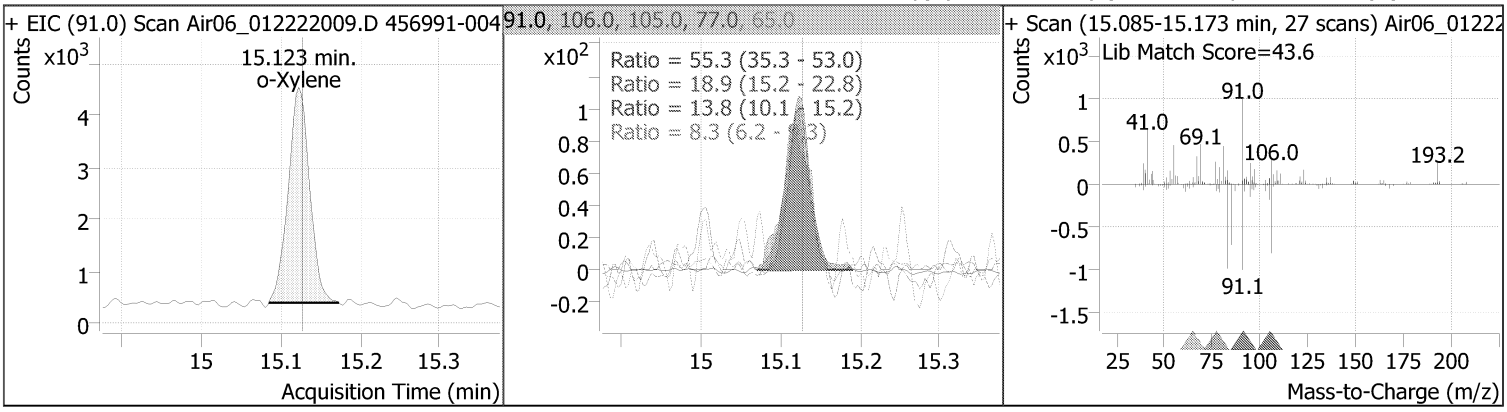

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.0075 | 15.01 | 0.00 | 999 | 103.0 | 58.5 | 39.7 | 59.6 |
| | | | | | 78.0 | 51.5 | 37.5 | 56.3 |
| | | | | | 51.0 | 37.0 | 26.5 | 39.8 |
| | | | | | 77.0 | 30.4 | 18.1 | 27.1 |



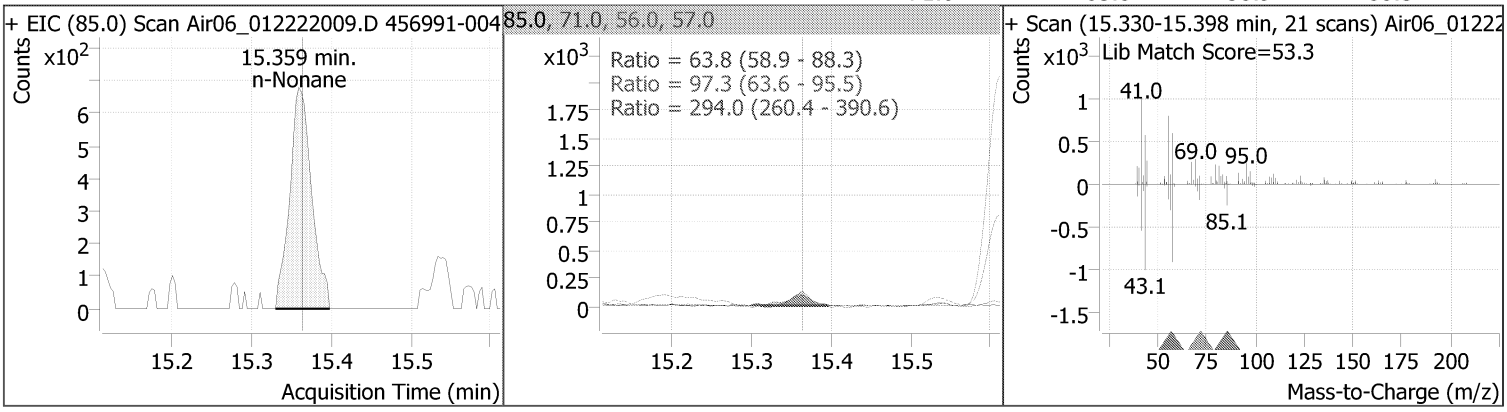
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.0060 | 15.17 | 0.07 | 764 | 85.0 | 15.1 | 51.6 | 77.5 |
| | | | | | 95.0 | 150.8 | 12.9 | 19.4 |
| | | | | | 131.0 | | 7.8 | 11.7 |



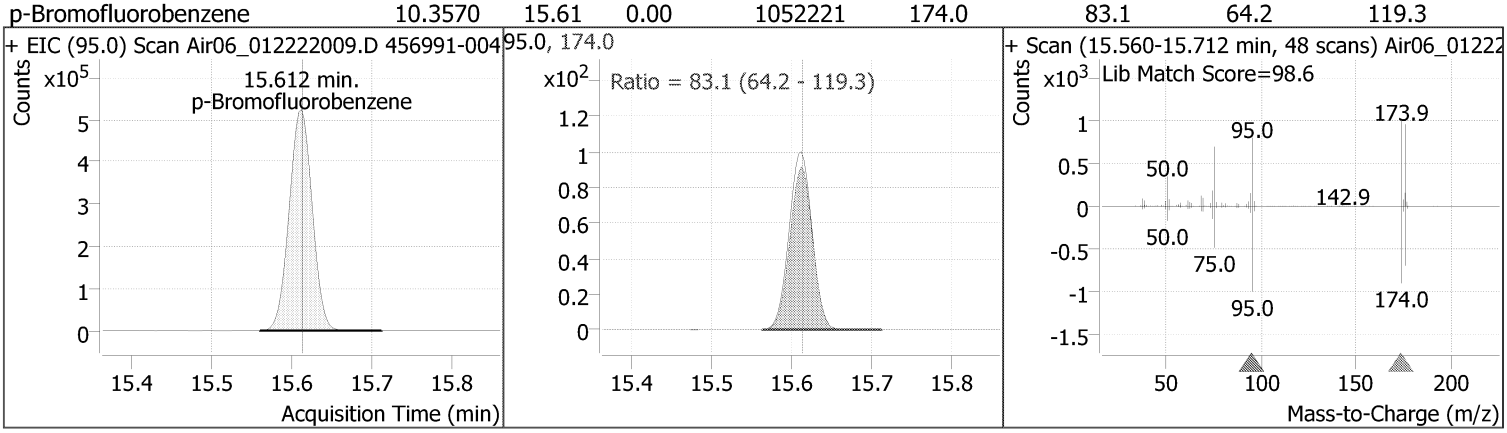

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.0447 | 15.12 | -0.01 | 7763 | 106.0 | 55.3 | 35.3 | 53.0 |
| | | | | | 105.0 | 18.9 | 15.2 | 22.8 |
| | | | | | 77.0 | 13.8 | 10.1 | 15.2 |
| | | | | | 65.0 | 8.3 | 6.2 | 9.3 |



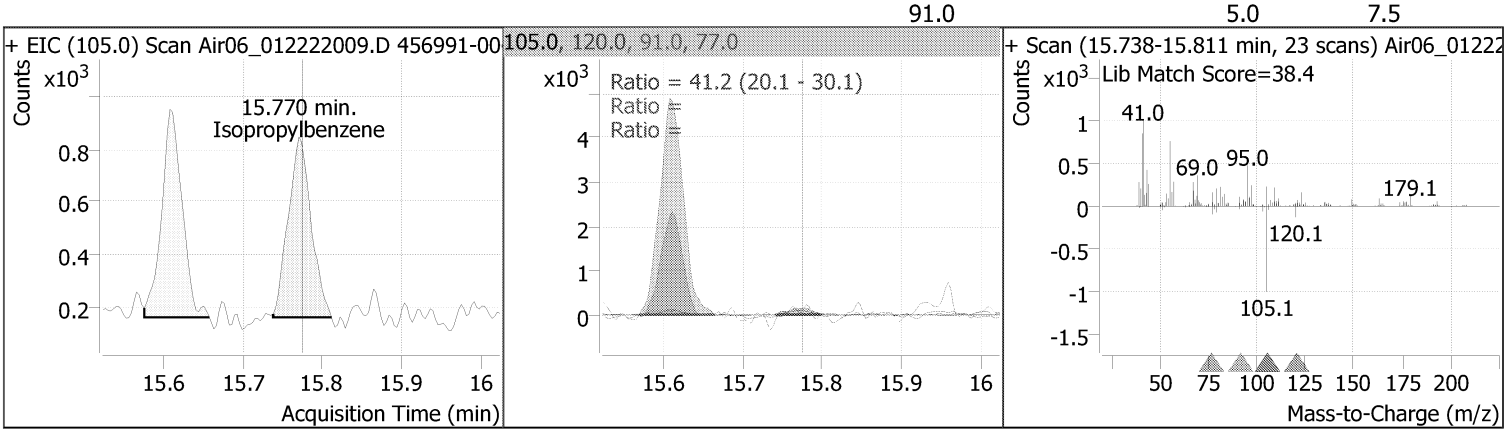

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.0323 | 15.36 | -0.01 | 1296 | 57.0 | 294.0 | 260.4 | 390.6 |
| | | | | | 56.0 | 97.3 | 63.6 | 95.5 |
| | | | | | 71.0 | 63.8 | 58.9 | 88.3 |



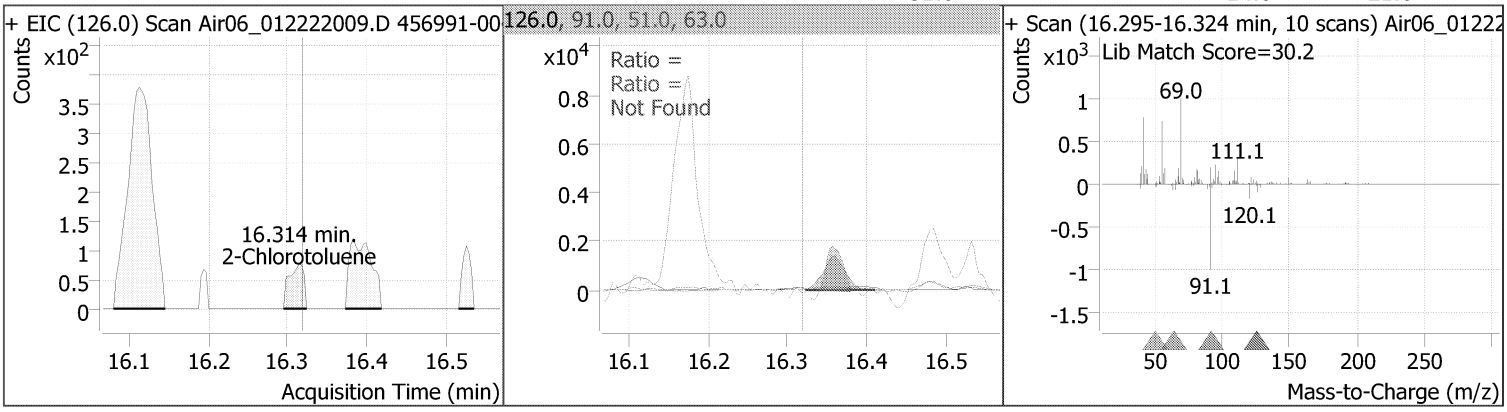
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.3570 | 15.61 | 0.00 | 1052221 | 174.0 | 83.1 | 64.2 | 119.3 |



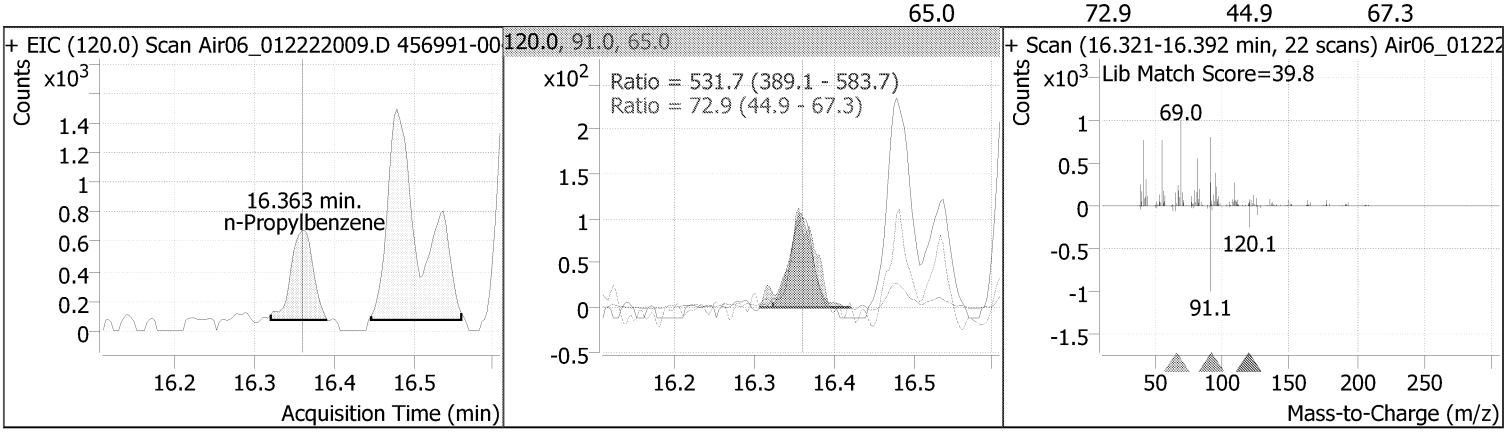

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0057 | 15.77 | -0.01 | 1369 | 120.0 | 41.2 | 20.1 | 30.1 |
| | | | | | 77.0 | | 13.1 | 19.6 |
| | | | | | 91.0 | | 5.0 | 7.5 |



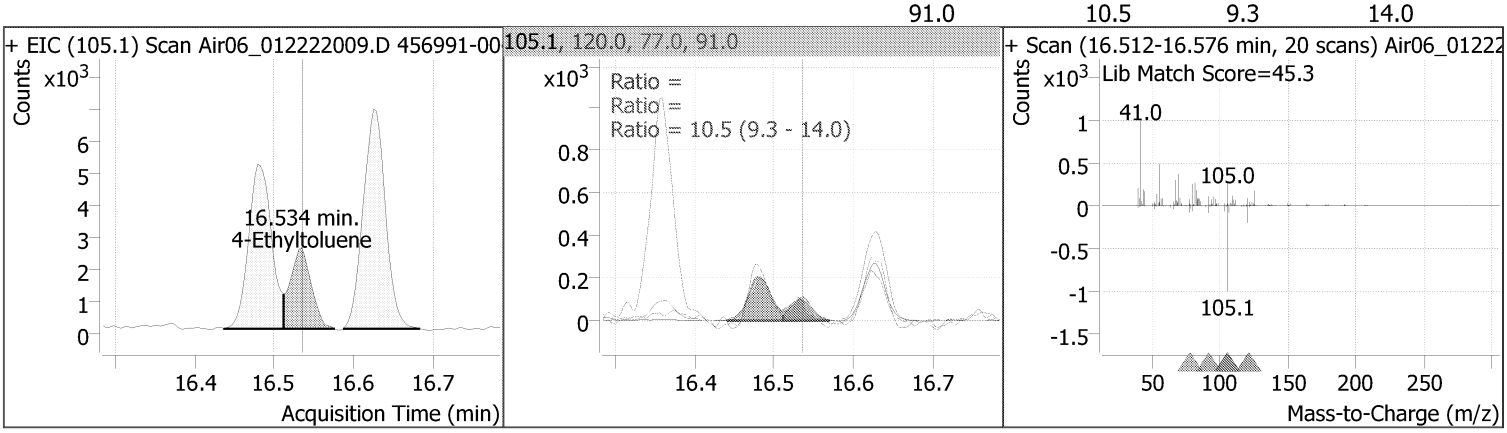

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.0016 | 16.31 | -0.01 | 98 | 91.0 | | 232.8 | 349.2 |
| | | | | | 63.0 | | 40.8 | 61.2 |
| | | | | | 51.0 | | 14.0 | 21.0 |



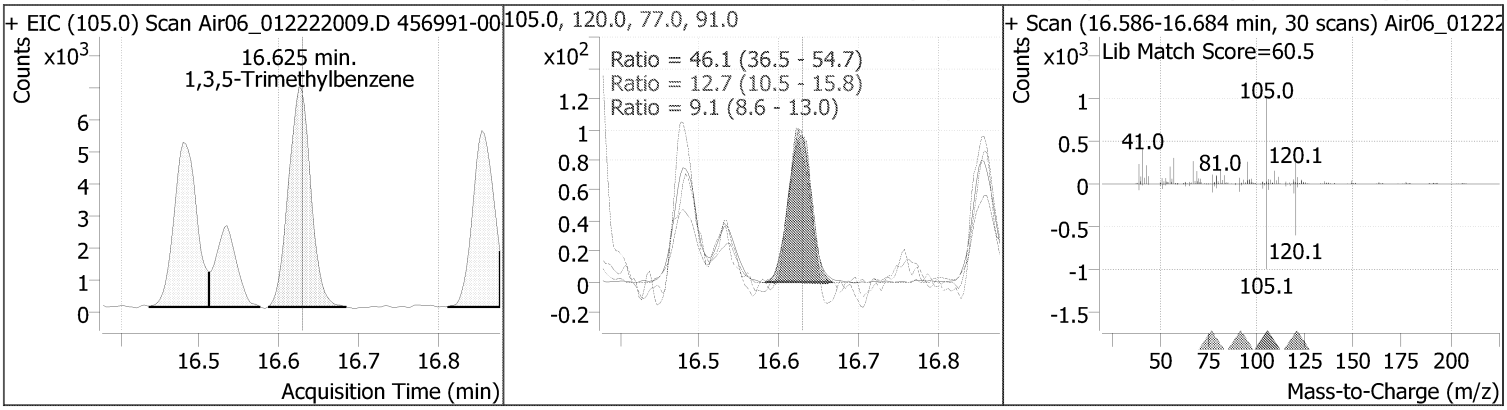
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0178 | 16.36 | 0.00 | 1182 | 91.0 | 531.7 | 389.1 | 583.7 |
| | | | | | 65.0 | 72.9 | 44.9 | 67.3 |



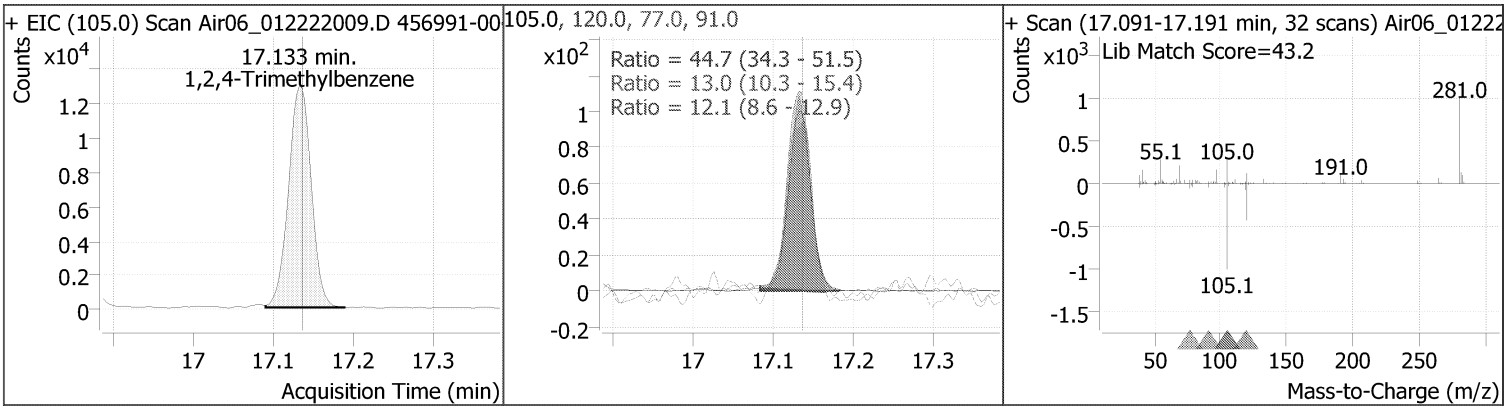

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0196 | 16.53 | 0.00 | 4625 | 120.0 | | 22.7 | 34.1 |
| | | | | | 77.0 | | 9.6 | 14.4 |
| | | | | | 91.0 | 10.5 | 9.3 | 14.0 |



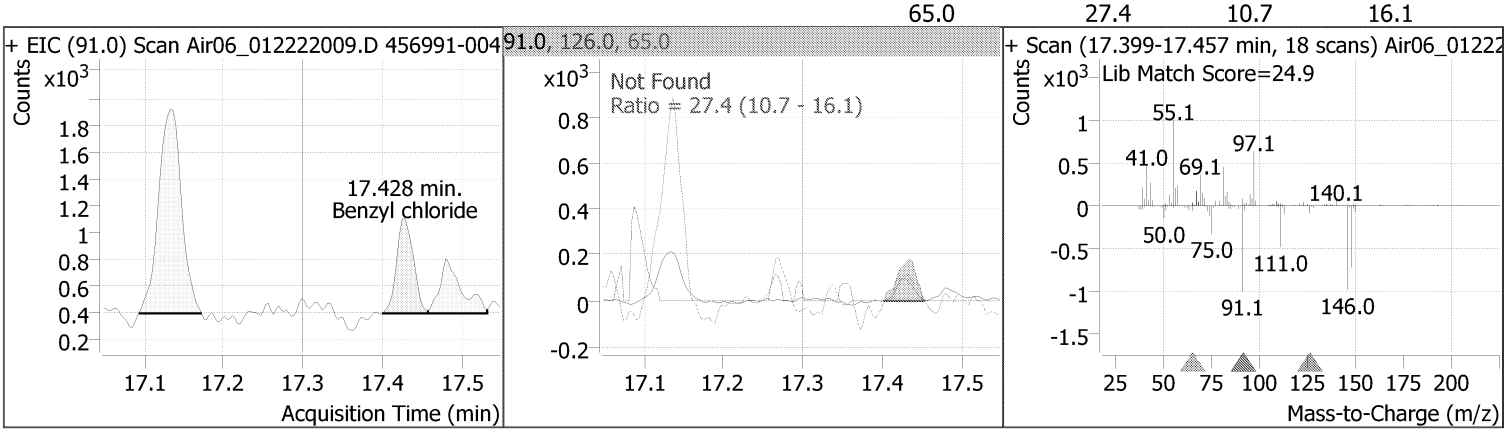

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.0657 | 16.62 | -0.01 | 13407 | 120.0 | 46.1 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.7 | 10.5 | 15.8 |
| | | | | | 91.0 | 9.1 | 8.6 | 13.0 |



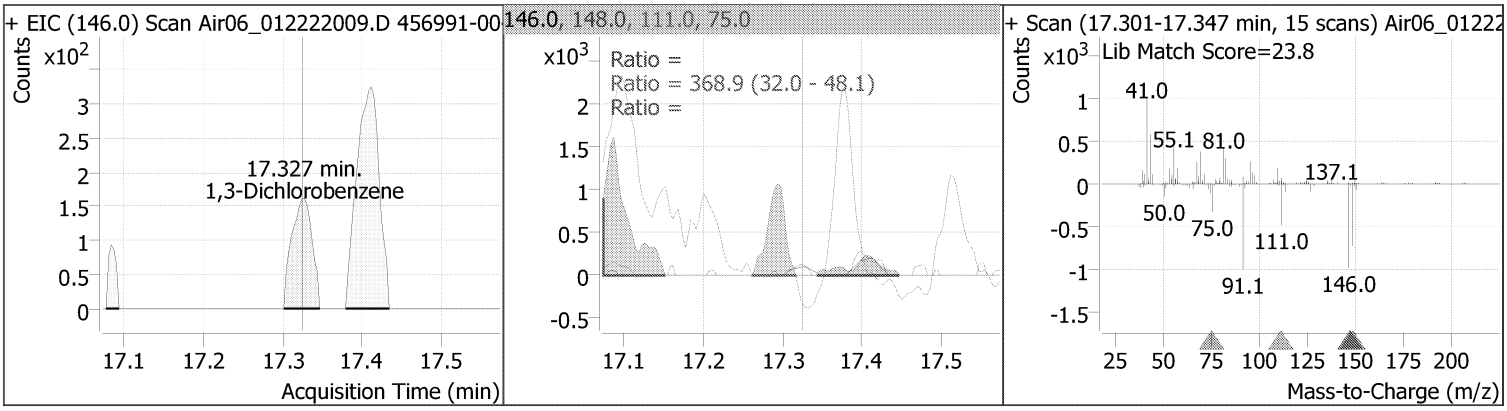
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.1268 | 17.13 | -0.01 | 25703 | 120.0 | 44.7 | 34.3 | 51.5 |
| | | | | | 77.0 | 13.0 | 10.3 | 15.4 |
| | | | | | 91.0 | 12.1 | 8.6 | 12.9 |



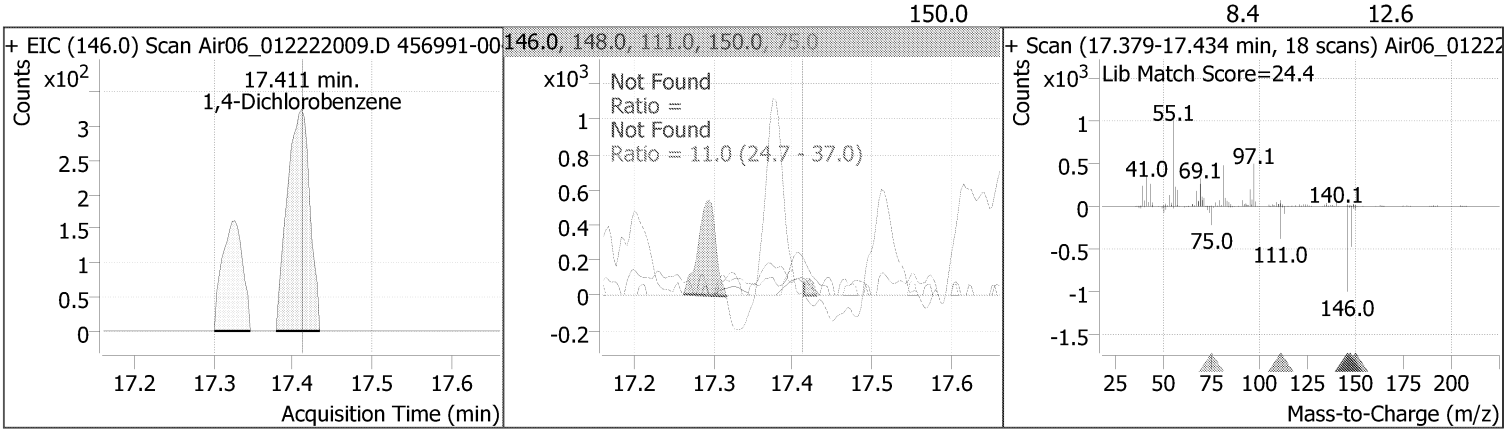

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0059 | 17.43 | 0.13 | 1047 | 126.0 | | 15.5 | 23.2 |
| | | | | | 65.0 | 27.4 | 10.7 | 16.1 |



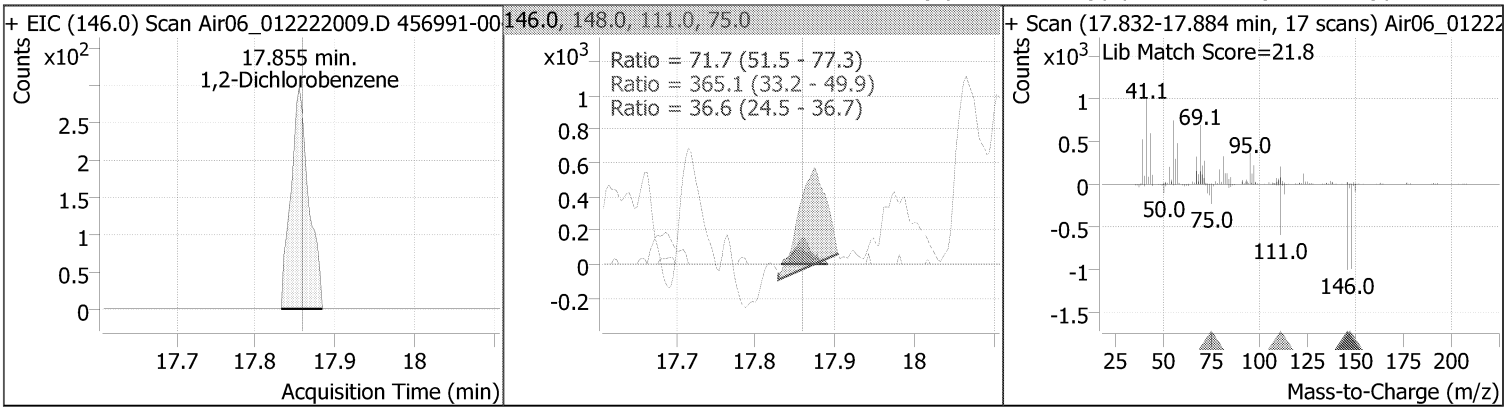

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.0021 | 17.33 | 0.00 | 289 | 148.0 | | 51.7 | 77.5 |
| | | | | | 111.0 | 368.9 | 32.0 | 48.1 |
| | | | | | 75.0 | | 25.3 | 37.9 |



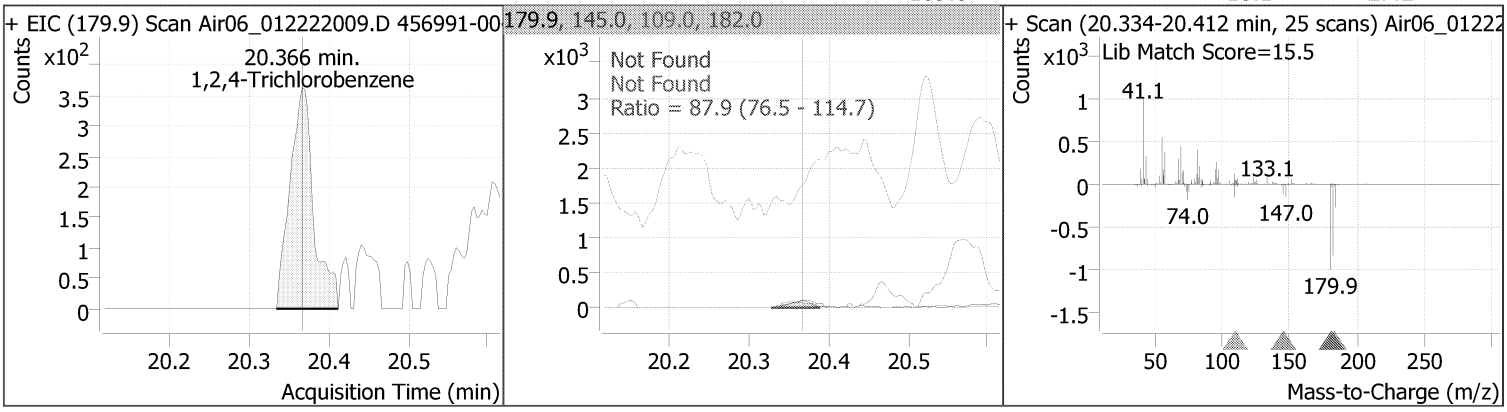
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.0046 | 17.41 | 0.00 | 641 | 148.0 | | 51.6 | 77.3 |
| | | | | | 111.0 | | 31.0 | 46.4 |
| | | | | | 75.0 | 11.0 | 24.7 | 37.0 |
| | | | | | 150.0 | | 8.4 | 12.6 |



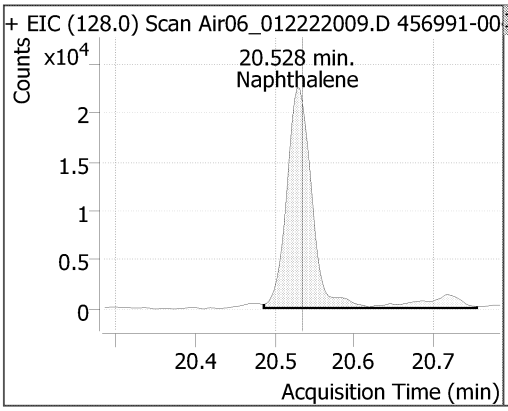

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.0034 | 17.85 | -0.01 | 466 | 148.0 | 71.7 | 51.5 | 77.3 |
| | | | | | 111.0 | 365.1 | 33.2 | 49.9 |
| | | | | | 75.0 | 36.6 | 24.5 | 36.7 |

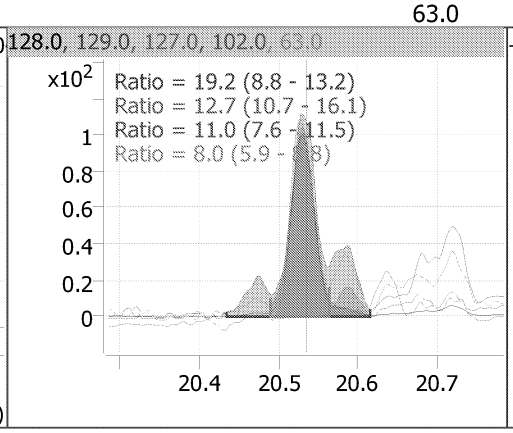


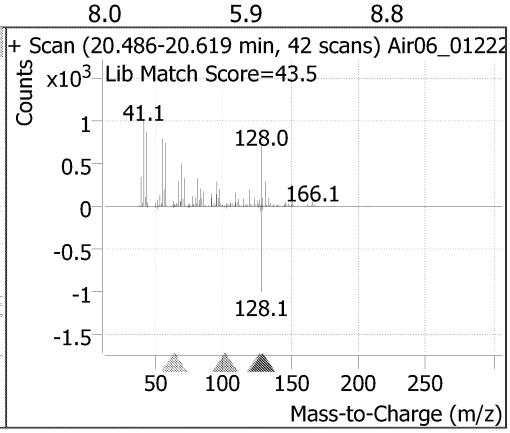

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0068 | 20.37 | 0.00 | 759 | 182.0 | 87.9 | 76.5 | 114.7 |
| | | | | | 145.0 | | 22.2 | 33.3 |
| | | | | | 109.0 | | 18.1 | 27.2 |



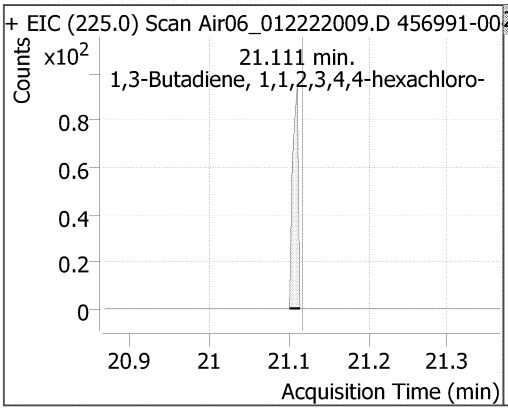
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.2137 | 20.53 | -0.01 | 49436 | 127.0 | 12.7 | 10.7 | 16.1 |
| | | | | | 129.0 | 19.2 | 8.8 | 13.2 |
| | | | | | 102.0 | 11.0 | 7.6 | 11.5 |
| | | | | | 63.0 | 8.0 | 5.9 | 8.8 |

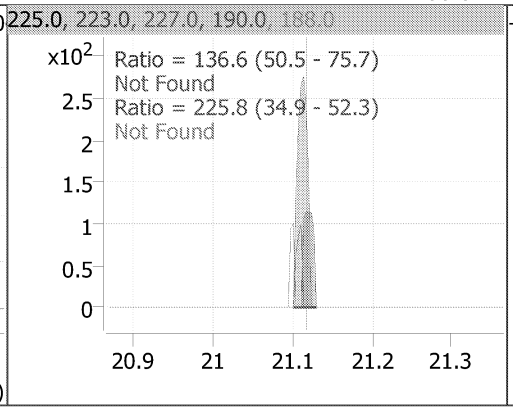


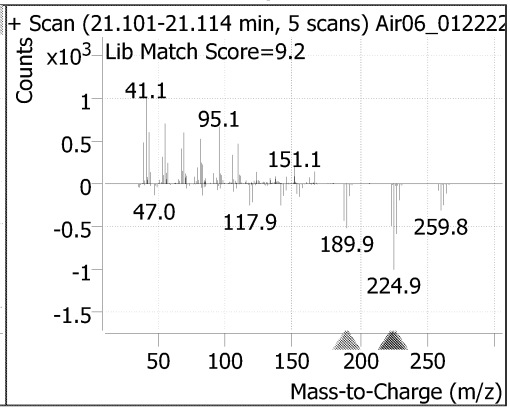




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0004 | 21.11 | -0.01 | 46 | 227.0 | | 51.2 | 76.7 |
| | | | | | 223.0 | 136.6 | 50.5 | 75.7 |
| | | | | | 190.0 | 225.8 | 34.9 | 52.3 |
| | | | | | 188.0 | | 27.5 | 41.2 |



ENTHALPY SAMPLE USER REPORT FOR EPA TO-15

| | | | | | |
|---|---|---|---|---|---|
| Inst | : AIR-MS-06 | Lab ID | : 456991-005 C10759 | Client ID | : SVMP-18S |
| Seqnum | : 372032312010 | Matrix | : Air | Acct | : ELEMENT (JG) |
| File | : air06_012222010 | Batch | : 282327 | Time | : 22-JAN-2022 18:33 |
| Cal | : 372007975001 | Caldate | : 05-JAN-2022 | | |
| IDF | : 2.0 | Raw Units | : nL/L | Units | : nL/L |
| PDF | : 1.0 | | | | |

| Analyte | Raw | Result | RTS | RL | Blank | Flags |
|---|---|---|---|---|---|---|
| Freon 12 | 0.2303 | 0.46 | | 0.40 | | u |
| Freon 114 | 0.006759 | ND | | 0.40 | | u |
| Chloromethane | 0.03647 | ND | | 0.40 | | calc u |
| Vinyl Chloride | 0.08463 | ND | | 0.40 | | u |
| Bromomethane | 0 | ND | | 0.40 | | u |
| Chloroethane | 0.3496 | 0.70 | | 0.40 | | u |
| Trichlorofluoromethane | 0.09500 | ND | | 0.40 | | u |
| 1,1-Dichloroethene | 0 | ND | | 0.40 | | u |
| Freon 113 | 0.02710 | ND | | 0.40 | | u |
| Acetone | 2.335 | 4.7 | | 2.0 | 0.21 | u |
| Carbon Disulfide | 0.4070 | 0.81 | | 0.40 | | u |
| Isopropanol (IPA) | 1.095 | 2.2 | | 2.0 | | u |
| Methylene Chloride | 0.1299 | ND | | 0.40 | 0.25 | u |
| trans-1,2-Dichloroethene | 0.02905 | ND | | 0.40 | | u |
| MTBE | 0.04536 | ND | | 0.40 | | u |
| n-Hexane | 0.05008 | ND | | 0.40 | | u |
| 1,1-Dichloroethane | 0.002335 | ND | | 0.40 | | u |
| Vinyl Acetate | 0.2060 | ND | | 2.0 | | u |
| cis-1,2-Dichloroethene | 0.008562 | ND | | 0.40 | | u |
| 2-Butanone | 0.4508 | ND | | 2.0 | | u |
| Chloroform | 0.03953 | ND | | 0.40 | | calc u |
| 1,1,1-Trichloroethane | 0 | ND | | 0.40 | | u |
| Carbon Tetrachloride | 0.02837 | ND | | 0.40 | | calc u |
| Benzene | 0.04413 | ND | | 0.40 | | u |
| 1,2-Dichloroethane | 0.05190 | ND | | 0.40 | | u |
| Trichloroethene | 0.02596 | ND | | 0.40 | | u |
| 1,2-Dichloropropane | 0.04668 | ND | | 0.40 | | u |
| Bromodichloromethane | 0.005019 | ND | | 0.40 | | u |
| cis-1,3-Dichloropropene | 0 | ND | | 0.40 | | u |
| 4-Methyl-2-Pentanone | 0.02032 | ND | | 0.40 | | calc u |
| Toluene | 0.4294 | 0.86 | | 0.40 | | u |
| trans-1,3-Dichloropropene | 0.005997 | ND | | 0.40 | | u |
| 1,1,2-Trichloroethane | 0.0003752 | ND | | 0.40 | | u |
| Tetrachloroethene | 0.04316 | ND | | 0.40 | | u |
| 2-Hexanone | 0.03154 | ND | | 1.0 | | calc u |
| Dibromochloromethane | 0 | ND | | 0.40 | | u |
| 1,2-Dibromoethane | 0.001777 | ND | | 0.40 | | u |
| Chlorobenzene | 0.01027 | ND | | 0.40 | | u |
| Ethylbenzene | 0.2577 | 0.52 | | 0.40 | | u |
| m,p-Xylenes | 0.8506 | 1.7 | | 0.80 | | u |
| o-Xylene | 0.3555 | 0.71 | | 0.40 | | u |
| Styrene | 0.7625 | 1.5 | | 0.40 | | u |
| Bromoform | 0.0005103 | ND | | 0.40 | | u |
| 1,1,2,2-Tetrachloroethane | 0.01407 | ND | | 0.40 | | u |
| 1,1,1,2-Tetrachloroethane | 0.003298 | ND | | 0.40 | | u |
| 4-Ethyltoluene | 0.04913 | ND | | 0.40 | | u |
| 1,3,5-Trimethylbenzene | 0.2048 | 0.41 | | 0.40 | | u |
| 1,2,4-Trimethylbenzene | 0.4005 | 0.80 | | 0.40 | | u |

| Analyte | Raw | Result | RTS | RL | Blank | Flags |
|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.6570 | 1.3 | 0.090 | 0.40 | | u x |
| 1,4-Dichlorobenzene | 0.6497 | 1.3 | | 0.40 | | u |
| Benzyl chloride | 0.01967 | ND | | 0.40 | | u |
| 1,2-Dichlorobenzene | 0.04940 | ND | | 0.40 | | u |
| 1,2,4-Trichlorobenzene | 0.01708 | ND | | 0.40 | | u |
| Hexachlorobutadiene | 0.0005753 | ND | | 0.40 | | u |

| Tentatively Identified Compound | CAS # | Raw | Units | Result | Units |
|---|---|---|---|---|---|
| 1(2H)-Naphthalenone, octahydro-4a-methyl, trans- | 937-99-5 | 9.9 | nL/L | 20 | nL/L |
| 1-Octanol, 2-butyl- | 3913-02-8 | 9.1 | nL/L | 18 | nL/L |
| 2-Propenal, 3-(2,6,6-trimethyl-1-cyclohexen-1-yl)- | 4951-40-0 | 8.9 | nL/L | 18 | nL/L |
| 9-Undecenol, 2,10-dimethyl- | 1000131-86-0 | 7.5 | nL/L | 15 | nL/L |
| Cyclohexane, 2-butyl-1,1,3-trimethyl- | 54676-39-0 | 13 | nL/L | 26 | nL/L |
| Dodecane | 112-40-3 | 13 | nL/L | 26 | nL/L |
| Naphthalene, decahydro-2-methyl | 2958-76-1 | 7.7 | nL/L | 15 | nL/L |
| Naphthalene,decahydro-2,6-dimethyl- | 1618-22-0 | 12 | nL/L | 25 | nL/L |
| Undecane | 1120-21-4 | 8.2 | nL/L | 16 | nL/L |
| Undecane, 2,6-dimethyl- | 17301-23-4 | 11 | nL/L | 21 | nL/L |

| Surrogate | Raw | Spiked | Result | %Rec | Limits | Flags |
|---|---|---|---|---|---|---|
| Bromofluorobenzene | 10.44 | 20.00 | 20.88 | 104 | 60-140 | u |

| ISTD (ICAL air06_010522009) | ICAL Area | SAMPLE Area | %Drift | ICAL RT | SAMPLE RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 377507 | -8.19 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1550976 | -0.04 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 772722 | -8.80 | 14.01 | 14.01 | 0.00 |

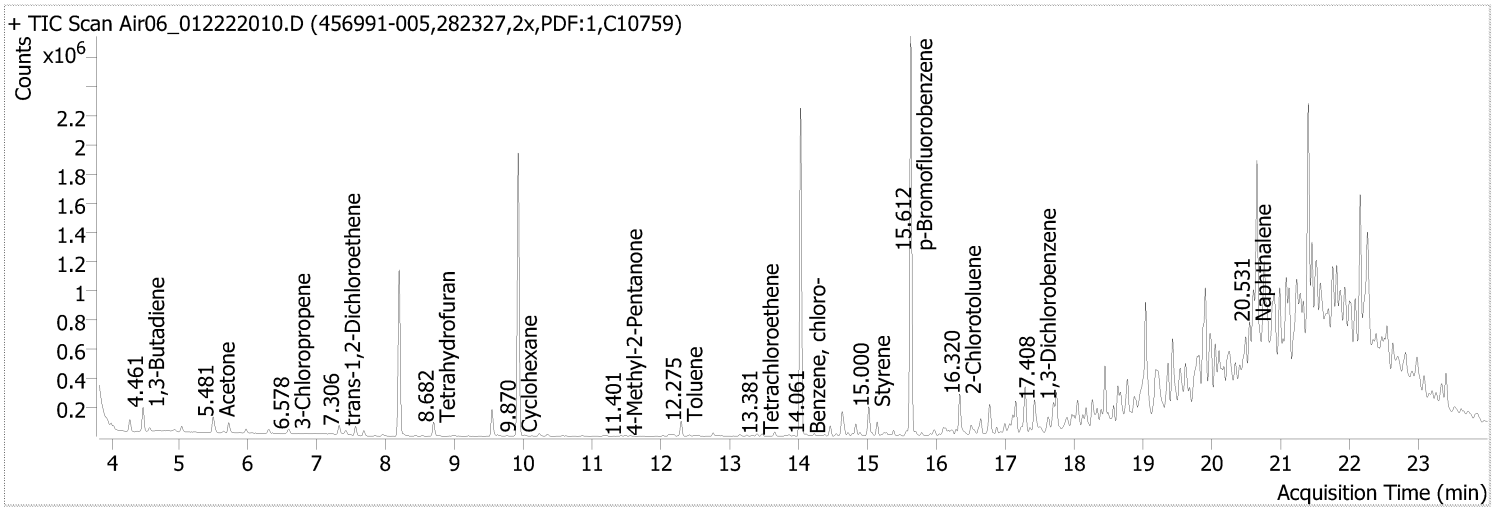
**(not in upper half)**

Analyst: DJL Date: 01/26/22 Reviewer: LW Date: 01/27/22

calc=check quantitation u=use x=false positive

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012222010.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/22/2022 6:33:59 PM |
| Sample Name | 456991-005,282327,2x,PDF:1,C10759 | Instrument | Air-MS-06 |
| Vial | 11 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 2x400mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 22 1248 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



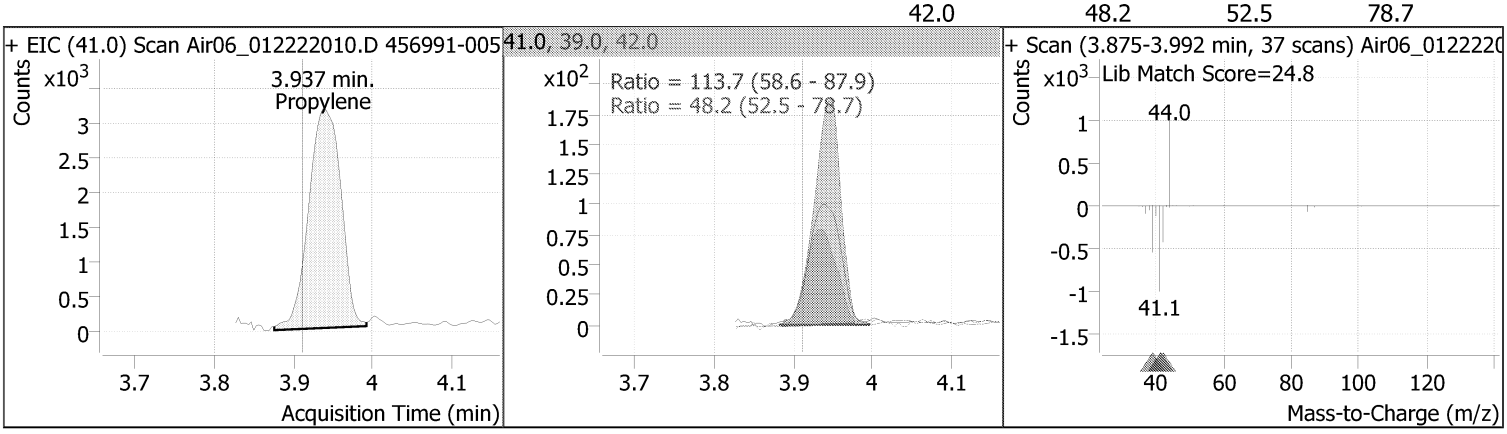

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 377507 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.912 | 114.0 | 1550976 | 10.0000 | nL/L | | 0.003 |
| M Chlorobenzene-d5 | 14.009 | 82.0 | 772722 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1060879 | 10.4403 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 104.40% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.937 | 41.0 | 9040 | 0.2431 | nL/L | # | 64 |
| T Freon 12 | 3.998 | 85.0 | 22662 | 0.2303 | nL/L | # | 98 |
| T Chloromethane | 4.150 | 50.0 | 1686 | 0.0365 | nL/L | | 96 |
| T Freon 114 | 4.251 | 135.0 | 469 | 0.0068 | nL/L | # | 94 |
| T Vinyl Chloride | 4.371 | 62.0 | 3913 | 0.0846 | nL/L | # | 91 |
| T 1,3-Butadiene | 4.461 | 54.0 | 2950 | 0.0745 | nL/L | # | 1 |
| T Butane | 4.558 | 43.0 | 24337 | 0.3166 | nL/L | | 99 |
| T Bromomethane | 0.000 | | 0 | N.D. | | | |
| T Chloroethane | 4.914 | 64.0 | 7970 | 0.3496 | nL/L | | 97 |
| T Ethanol | 5.024 | 45.0 | 45073 | 1.9799 | nL/L | # | 97 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 5.345 | 56.0 | 1395 | 0.0695 | nL/L | | 92 |
| T Acetone | 5.481 | 58.0 | 55410 | 2.3354 | nL/L | # | 68 |
| T Trichloromonofluoromethane | 5.633 | 101.0 | 11016 | 0.0950 | nL/L | | 99 |
| T Isopropanol (IPA) | 5.704 | 45.0 | 93011 | 1.0947 | nL/L | | 96 |
| T n-Pentane | 5.957 | 43.0 | 20071 | 0.2113 | nL/L | | 99 |
| T 1,1-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Tert-butyl alcohol (TBA) | 6.283 | 59.0 | 18225 | 0.1854 | nL/L | # | 81 |
| T Methylene Chloride | 6.290 | 84.0 | 5424 | 0.1299 | nL/L | | 98 |
| T 3-Chloropropene | 6.578 | 76.0 | 49131 | 2.5515 | nL/L | # | 59 |
| T Freon 113 | 6.549 | 101.0 | 2525 | 0.0271 | nL/L | | 95 |
| T Carbon Disulfide | 6.578 | 76.0 | 49131 | 0.4070 | nL/L | # | 92 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.306 | 61.0 | 2100 | 0.0291 | nL/L | # | 32 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 207 | 0.0023 | nL/L | | 55 |
| T MTBE | 7.403 | 73.0 | 5336 | 0.0454 | nL/L | # | 24 |
| T Vinyl Acetate | 7.410 | 43.0 | 30681 | 0.2060 | nL/L | | 92 |
| T 2-Butanone | 7.669 | 43.0 | 51733 | 0.4508 | nL/L | | 96 |
| T cis-1,2-Dichloroethene | 8.245 | 61.0 | 626 | 0.0086 | nL/L | # | 1 |
| T Ethyl Acetate | 8.245 | 61.0 | 626 | 0.0347 | nL/L | # | 16 |
| T n-Hexane | 8.248 | 57.0 | 4144 | 0.0501 | nL/L | # | 27 |
| T Chloroform | 8.297 | 83.0 | 3689 | 0.0395 | nL/L | | 81 |
| T Tetrahydrofuran | 8.682 | 72.0 | 21524 | 1.0458 | nL/L | | 95 |
| T 1,2-Dichloroethane | 8.957 | 62.0 | 3546 | 0.0519 | nL/L | # | 96 |
| T 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Benzene | 9.611 | 78.0 | 5936 | 0.0441 | nL/L | | 95 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 2732 | 0.0284 | nL/L | # | 97 |
| T Cyclohexane | 9.870 | 84.0 | 1828 | 0.0325 | nL/L | | 21 |
| T 1,2-Dichloropropane | 10.336 | 63.0 | 2965 | 0.0467 | nL/L | # | 40 |
| T Methane, bromodichloro- | 10.527 | 83.0 | 520 | 0.0050 | nL/L | # | 47 |
| T 1,4-Dioxane | 10.598 | 88.0 | 131 | 0.0039 | nL/L | | 72 |
| T Trichloroethene | 10.553 | 132.0 | 1678 | 0.0260 | nL/L | | 95 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 962 | 0.0033 | nL/L | # | 1 |
| T Methyl methacrylate | 10.721 | 69.0 | 480 | 0.0089 | nL/L | # | 46 |
| T n-Heptane | 10.841 | 71.0 | 665 | 0.0133 | nL/L | # | 82 |
| T cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 4-Methyl-2-Pentanone | 11.401 | 58.0 | 1132 | 0.0203 | nL/L | # | 61 |
| T trans-1,3-Dichloropropene | 12.048 | 110.0 | 124 | 0.0060 | nL/L | # | 1 |
| T 1,1,2-Trichloroethane | 11.983 | 97.0 | 23 | 0.0004 | nL/L | # | 1 |
| T Toluene | 12.275 | 91.0 | 78931 | 0.4294 | nL/L | | 98 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 85083962 | 6.8355 | nL/L | | 100 |
| T 2-Hexanone | 12.527 | 58.0 | 2257 | 0.0315 | nL/L | | 95 |
| T Dibromochloromethane | 0.000 | | 0 | N.D. | | | |
| T 1,2-Dibromoethane | 12.909 | 108.9 | 165 | 0.0018 | nL/L | | 97 |
| T Tetrachloroethene | 13.381 | 166.0 | 4102 | 0.0432 | nL/L | # | 90 |
| T 1,1,1,2-Tetrachloroethane | 13.848 | 131.0 | 220 | 0.0033 | nL/L | # | 1 |
| T Benzene, chloro- | 14.061 | 112.0 | 1359 | 0.0103 | nL/L | | 44 |
| T Ethylbenzene | 14.443 | 91.0 | 54185 | 0.2577 | nL/L | | 99 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 78073792 | 8.5874 | nL/L | | 100 |
| T m,p-Xylenes | 14.615 | 91.0 | 143822 | 0.8506 | nL/L | | 99 |
| T Bromoform | 14.702 | 173.0 | 59 | 0.0005 | nL/L | | 38 |
| T Styrene | 15.000 | 104.0 | 102162 | 0.7625 | nL/L | | 98 |
| T 1,1,2,2-Tetrachloroethane | 15.048 | 83.0 | 1797 | 0.0141 | nL/L | # | 64 |
| T o-Xylene | 15.123 | 91.0 | 61792 | 0.3555 | nL/L | | 99 |
| T n-Nonane | 15.359 | 85.0 | 4192 | 0.1044 | nL/L | | 91 |
| T Isopropylbenzene | 15.770 | 105.0 | 7665 | 0.0322 | nL/L | # | 97 |
| T 2-Chlorotoluene | 16.320 | 126.0 | 191 | 0.0031 | nL/L | # | 1 |
| T n-Propylbenzene | 16.359 | 120.0 | 6654 | 0.0999 | nL/L | | 85 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 11586 | 0.0491 | nL/L | # | 89 |
| T 1,3,5-Trimethylbenzene | 16.625 | 105.0 | 41800 | 0.2048 | nL/L | | 99 |
| T 1,2,4-Trimethylbenzene | 17.133 | 105.0 | 81197 | 0.4005 | nL/L | | 97 |
| T Benzyl chloride | 17.288 | 91.0 | 3506 | 0.0197 | nL/L | # | 45 |
| T 1,3-Dichlorobenzene | 17.408 | 146.0 | 91370 | 0.6570 | nL/L | | 95 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 91370 | 0.6497 | nL/L | | 95 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 6700 | 0.0494 | nL/L | # | 79 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1909 | 0.0171 | nL/L | | 73 |
| T Naphthalene | 20.531 | 128.0 | 127746 | 0.5522 | nL/L | | 98 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.124 | 225.0 | 69 | 0.0006 | nL/L | | 61 |

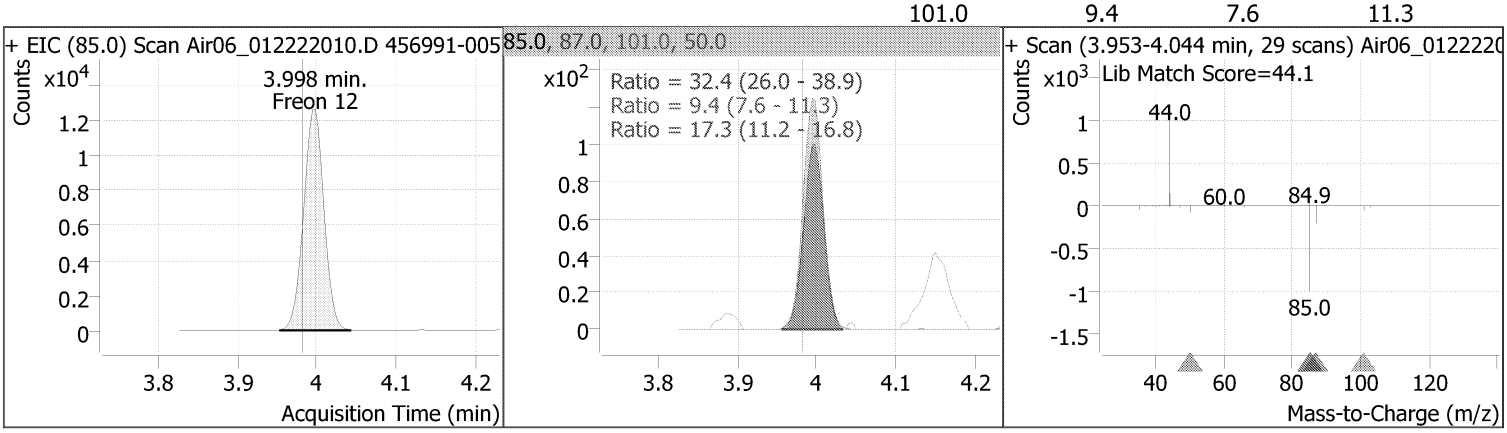
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

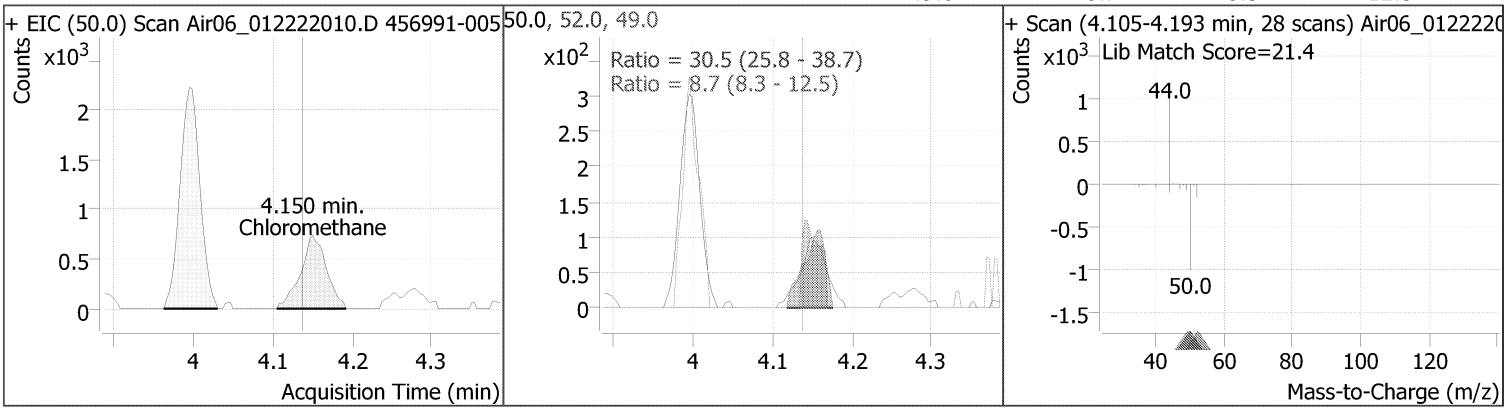
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.2431 | 3.94 | 0.03 | 9040 | 39.0 | 113.7 | 58.6 | 87.9 |
| | | | | | 42.0 | 48.2 | 52.5 | 78.7 |



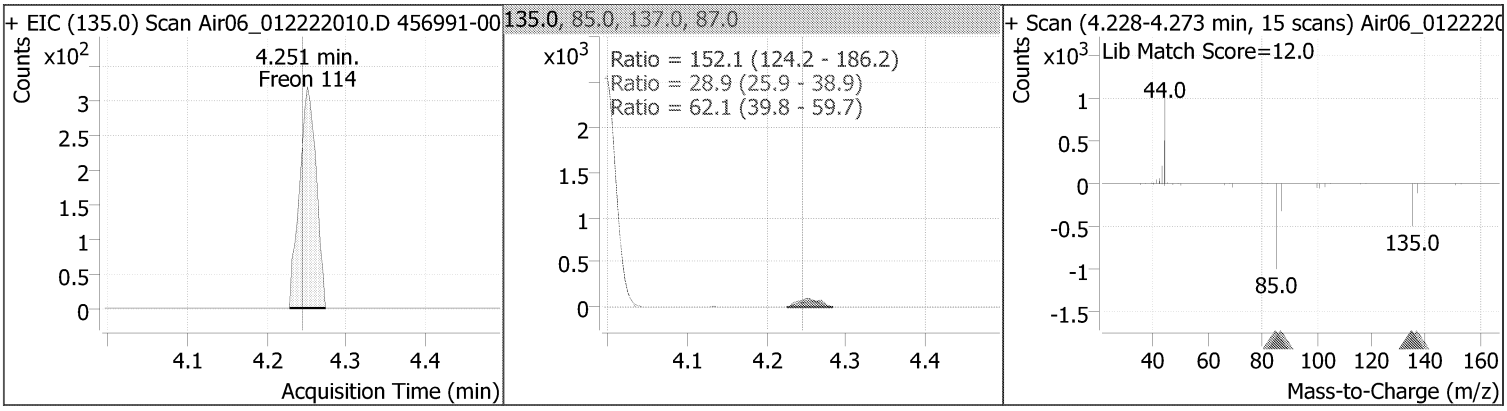

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.2303 | 4.00 | 0.02 | 22662 | 87.0 | 32.4 | 26.0 | 38.9 |
| | | | | | 50.0 | 17.3 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.4 | 7.6 | 11.3 |



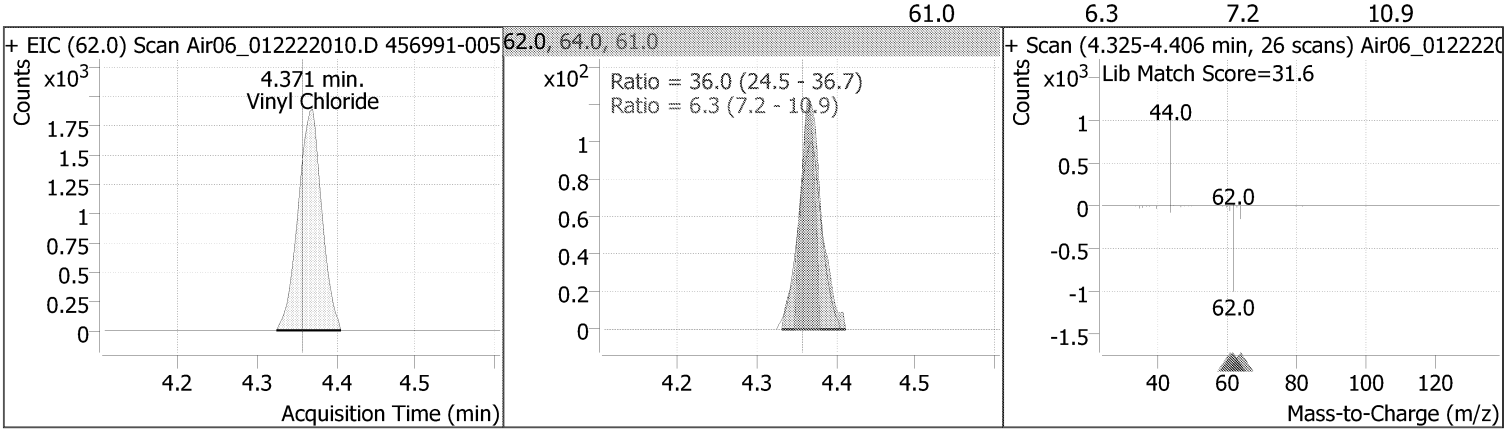

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0365 | 4.15 | 0.02 | 1686 | 52.0 | 30.5 | 25.8 | 38.7 |
| | | | | | 49.0 | 8.7 | 8.3 | 12.5 |



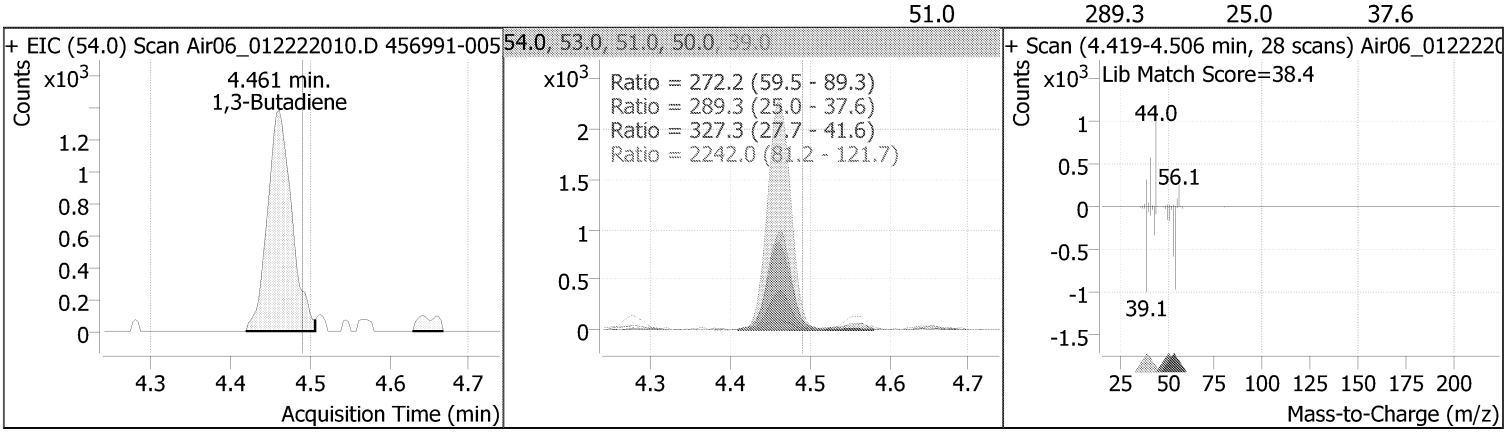
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.0068 | 4.25 | 0.01 | 469 | 85.0 | 152.1 | 124.2 | 186.2 |
| | | | | | 87.0 | 62.1 | 39.8 | 59.7 |
| | | | | | 137.0 | 28.9 | 25.9 | 38.9 |



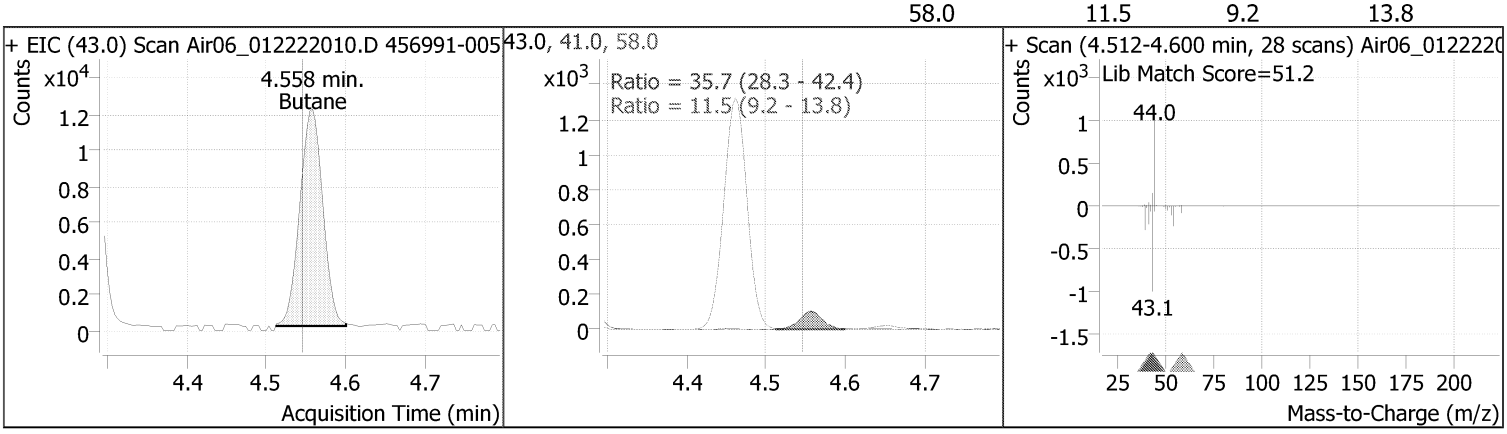

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.0846 | 4.37 | 0.02 | 3913 | 64.0 | 36.0 | 24.5 | 36.7 |
| | | | | | 61.0 | 6.3 | 7.2 | 10.9 |



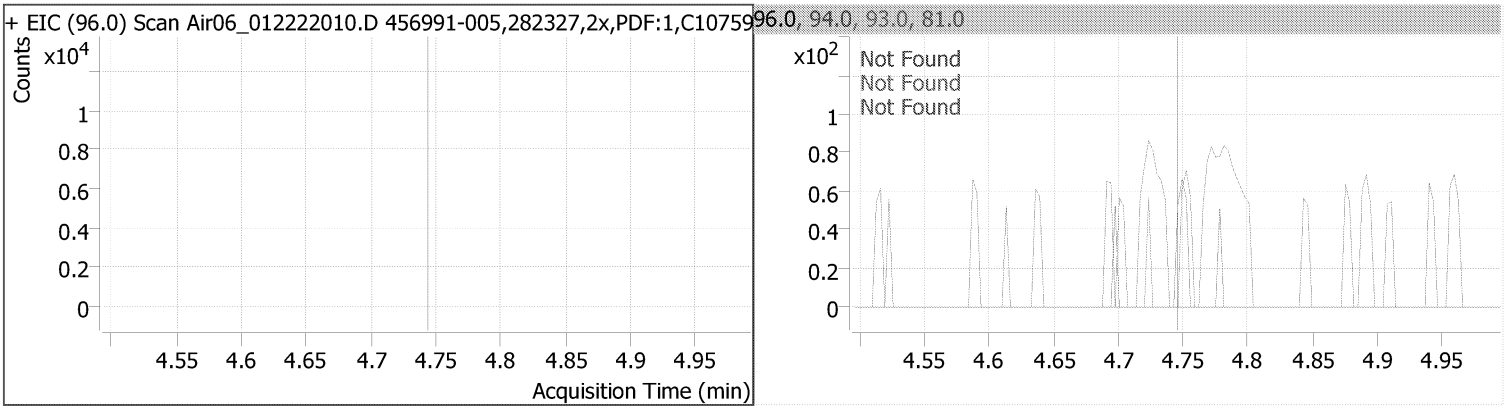

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0745 | 4.46 | -0.03 | 2950 | 39.0 | 2242.0 | 81.2 | 121.7 |
| | | | | | 53.0 | 272.2 | 59.5 | 89.3 |
| | | | | | 50.0 | 327.3 | 27.7 | 41.6 |
| | | | | | 51.0 | 289.3 | 25.0 | 37.6 |



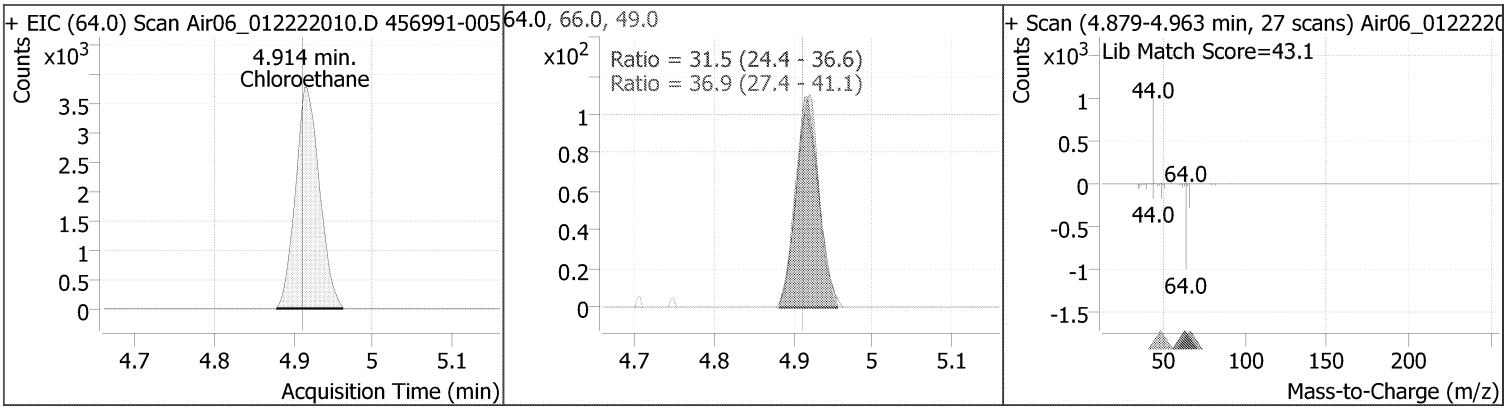
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.3166 | 4.56 | 0.02 | 24337 | 41.0 | 35.7 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.5 | 9.2 | 13.8 |



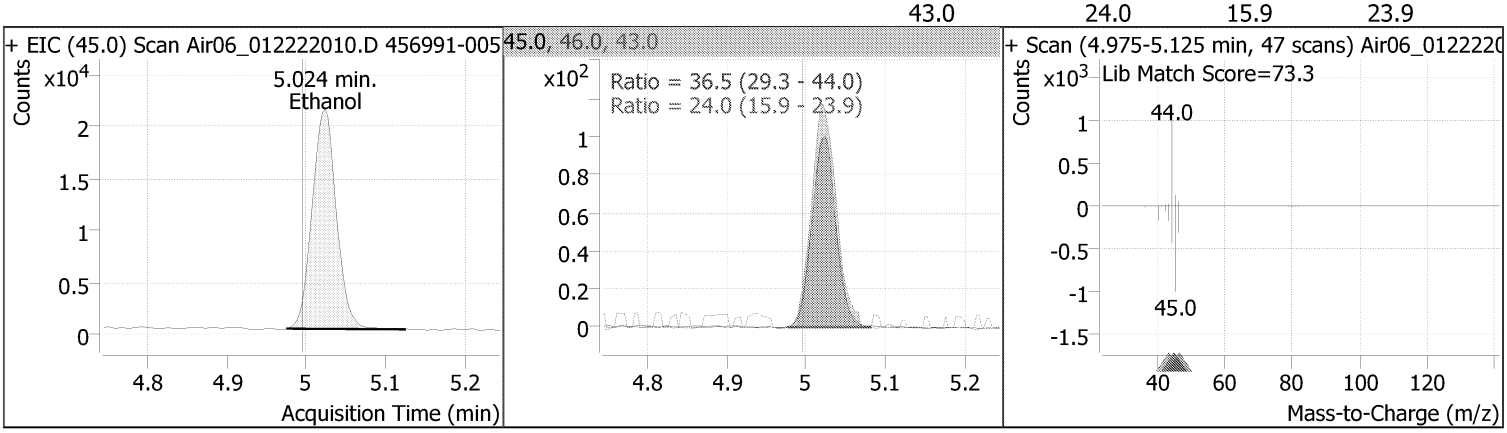

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | N.D. | 4.74 | 94.0 | 107.1 | 93.0 | 22.6 | 81.0 | 17.5 |



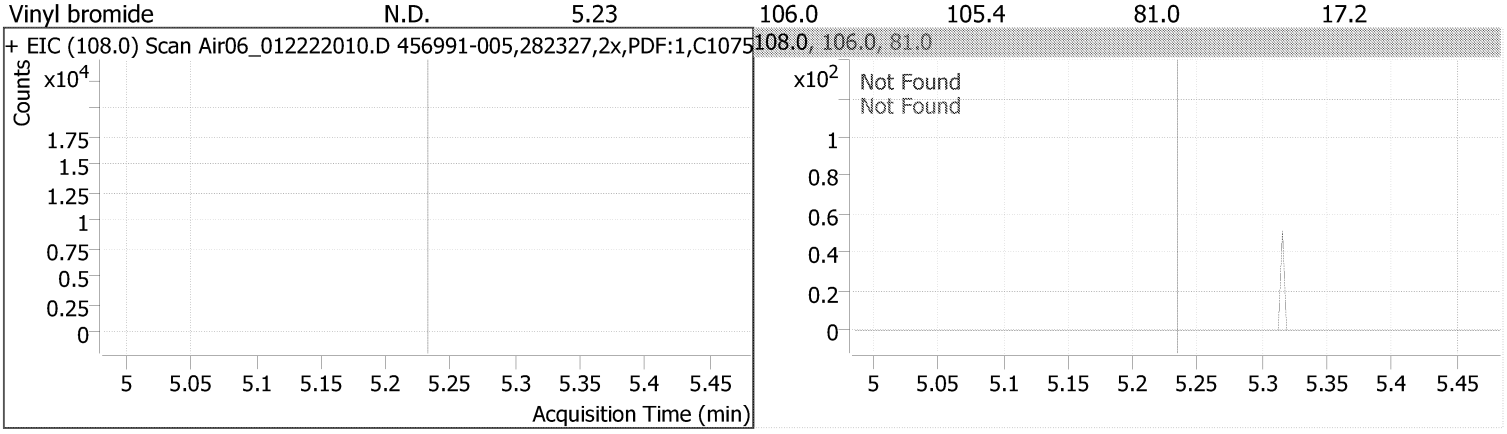

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.3496 | 4.91 | 0.01 | 7970 | 49.0 | 36.9 | 27.4 | 41.1 |
| | | | | | 66.0 | 31.5 | 24.4 | 36.6 |



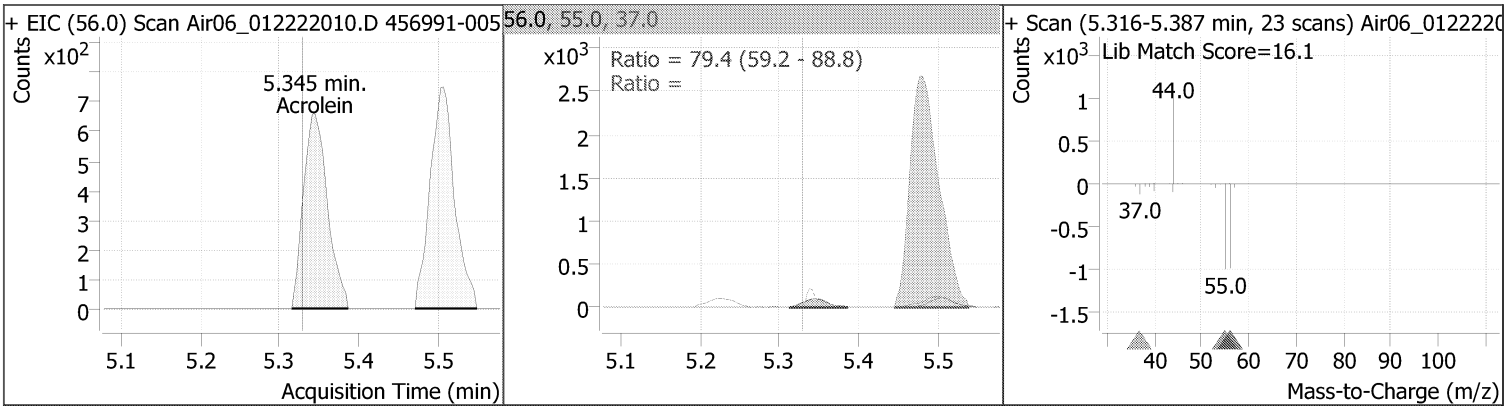
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 1.9799 | 5.02 | 0.03 | 45073 | 46.0 | 36.5 | 29.3 | 44.0 |
| | | | | | 43.0 | 24.0 | 15.9 | 23.9 |



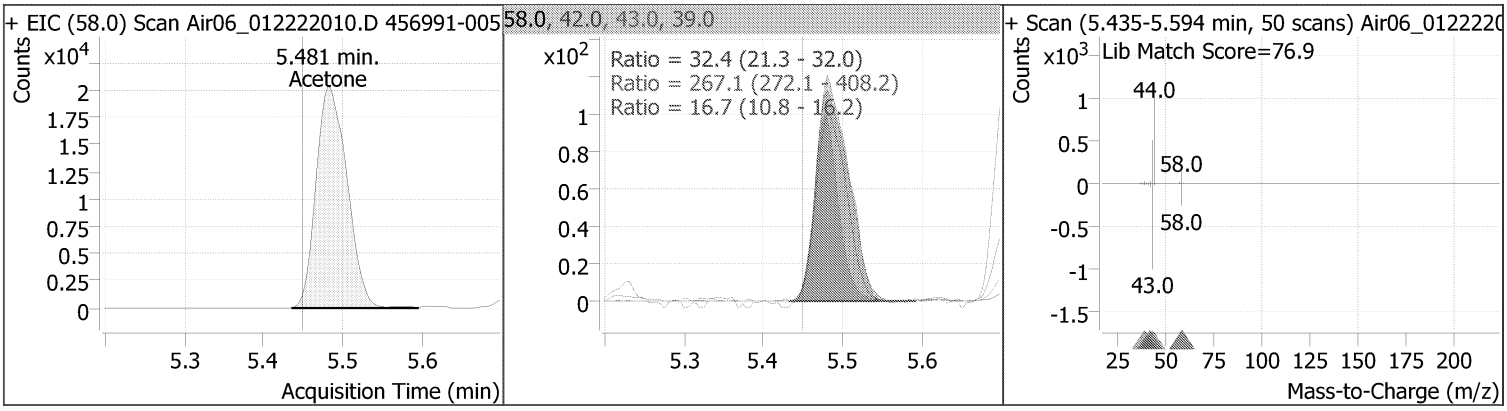

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.23 | 106.0 | 105.4 | 81.0 | 17.2 |



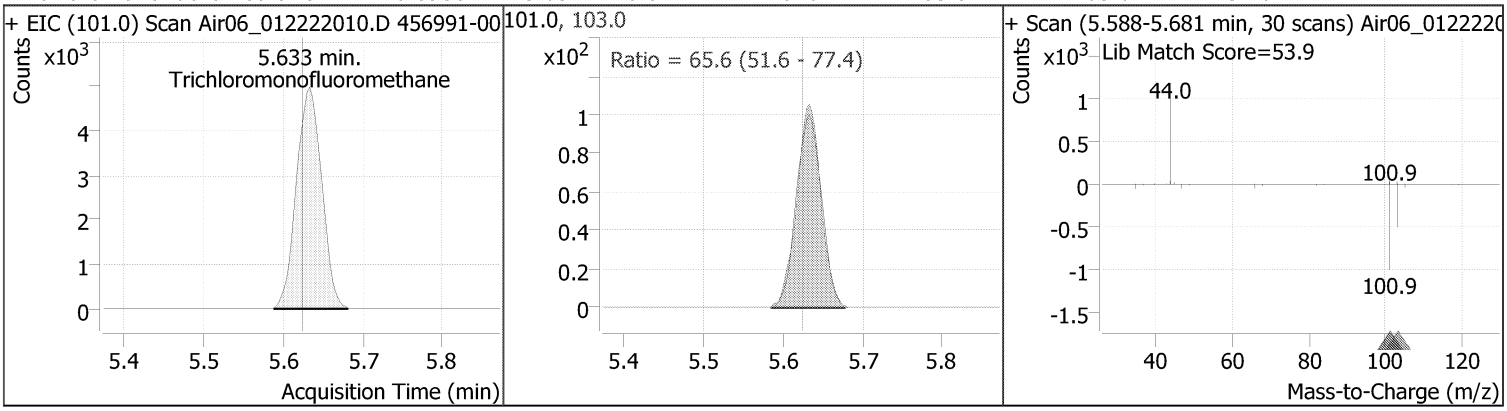

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0695 | 5.34 | 0.02 | 1395 | 55.0 | 79.4 | 59.2 | 88.8 |
| | | | | | 37.0 | | 7.3 | 11.0 |



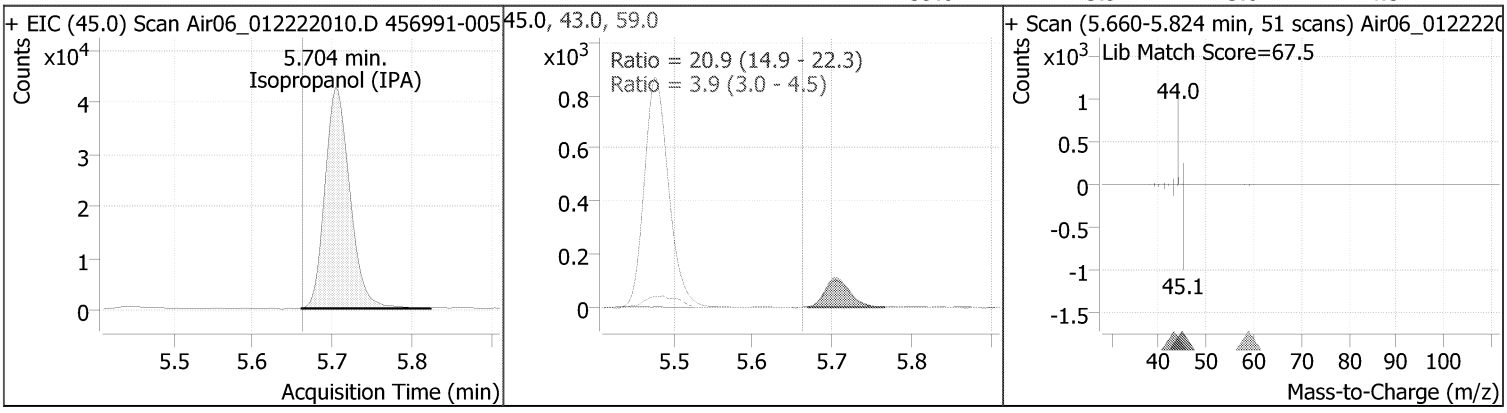
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 2.3354 | 5.48 | 0.04 | 55410 | 43.0 | 267.1 | 272.1 | 408.2 |
| | | | | | 42.0 | 32.4 | 21.3 | 32.0 |
| | | | | | 39.0 | 16.7 | 10.8 | 16.2 |



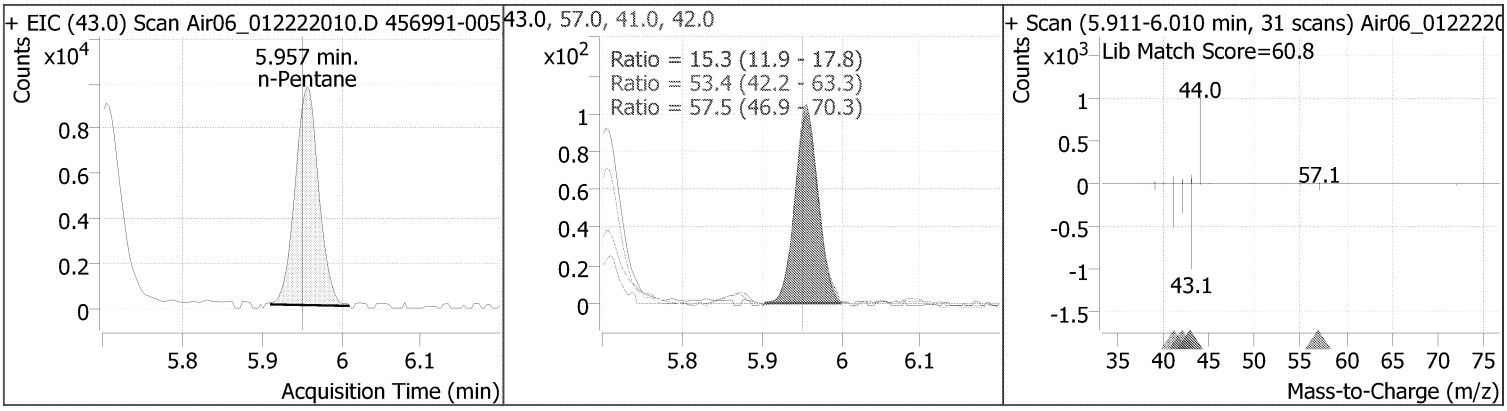

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 0.0950 | 5.63 | 0.01 | 11016 | 103.0 | 65.6 | 51.6 | 77.4 |



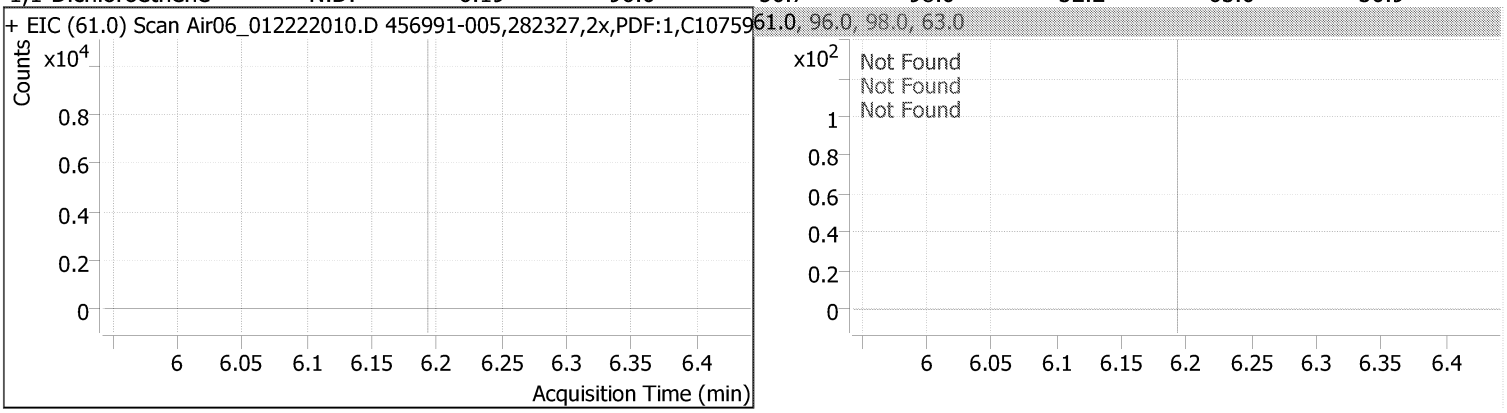

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 1.0947 | 5.70 | 0.05 | 93011 | 43.0 | 20.9 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.9 | 3.0 | 4.5 |



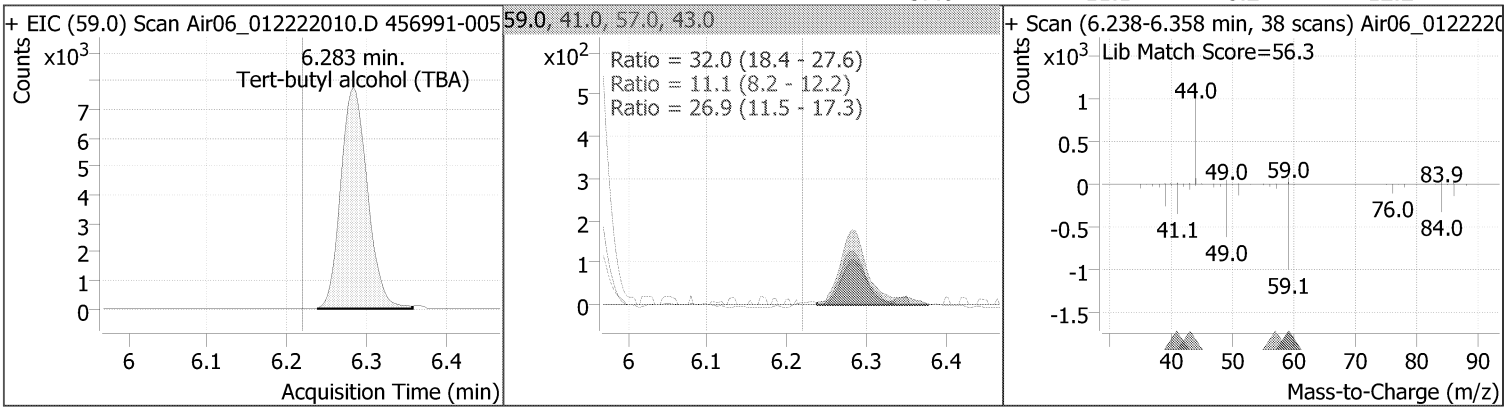
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.2113 | 5.96 | 0.01 | 20071 | 42.0 | 57.5 | 46.9 | 70.3 |
| | | | | | 41.0 | 53.4 | 42.2 | 63.3 |
| | | | | | 57.0 | 15.3 | 11.9 | 17.8 |



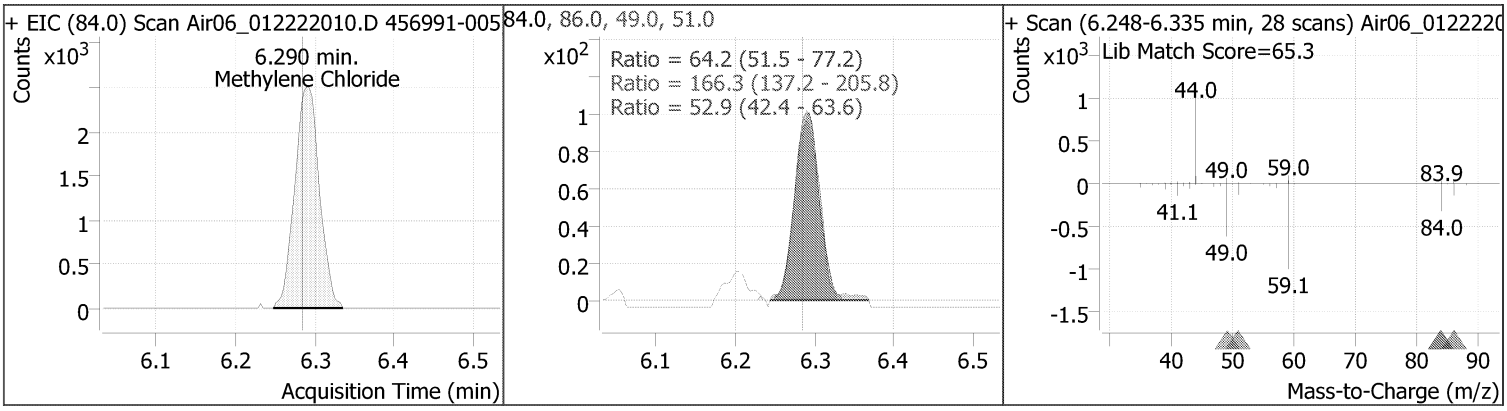

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | N.D. | 6.19 | 96.0 | 50.7 | 98.0 | 32.2 | 63.0 | 30.9 |



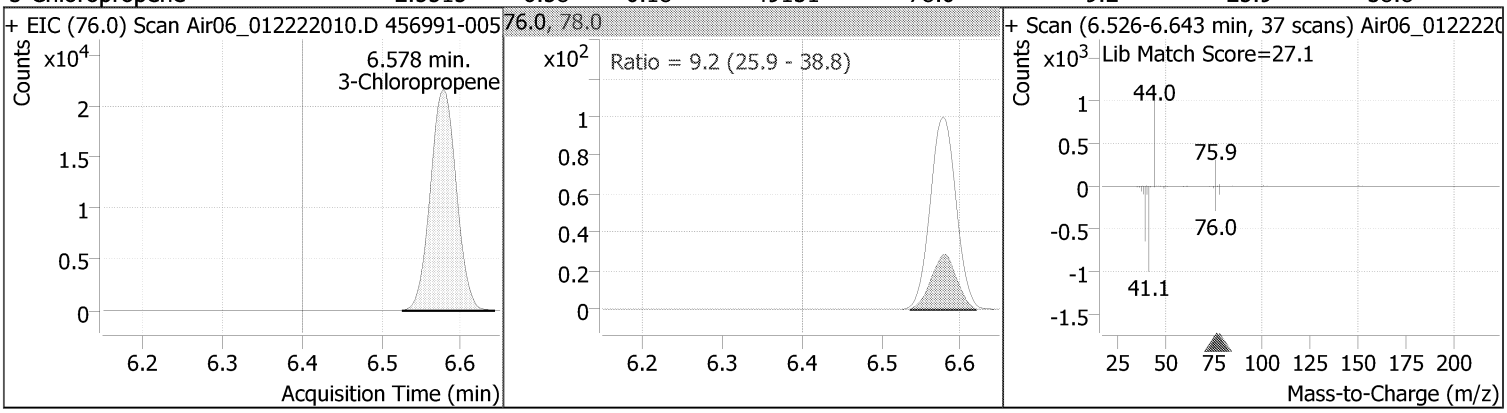

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.1854 | 6.28 | 0.07 | 18225 | 41.0 | 32.0 | 18.4 | 27.6 |
| | | | | | 43.0 | 26.9 | 11.5 | 17.3 |
| | | | | | 57.0 | 11.1 | 8.2 | 12.2 |



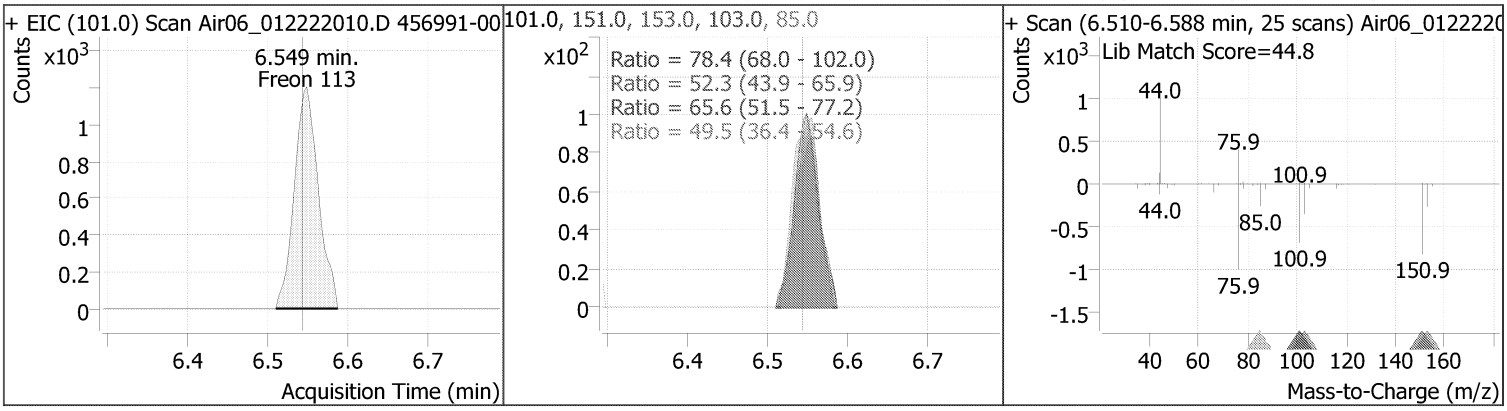
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1299 | 6.29 | 0.01 | 5424 | 49.0 | 166.3 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.2 | 51.5 | 77.2 |
| | | | | | 51.0 | 52.9 | 42.4 | 63.6 |



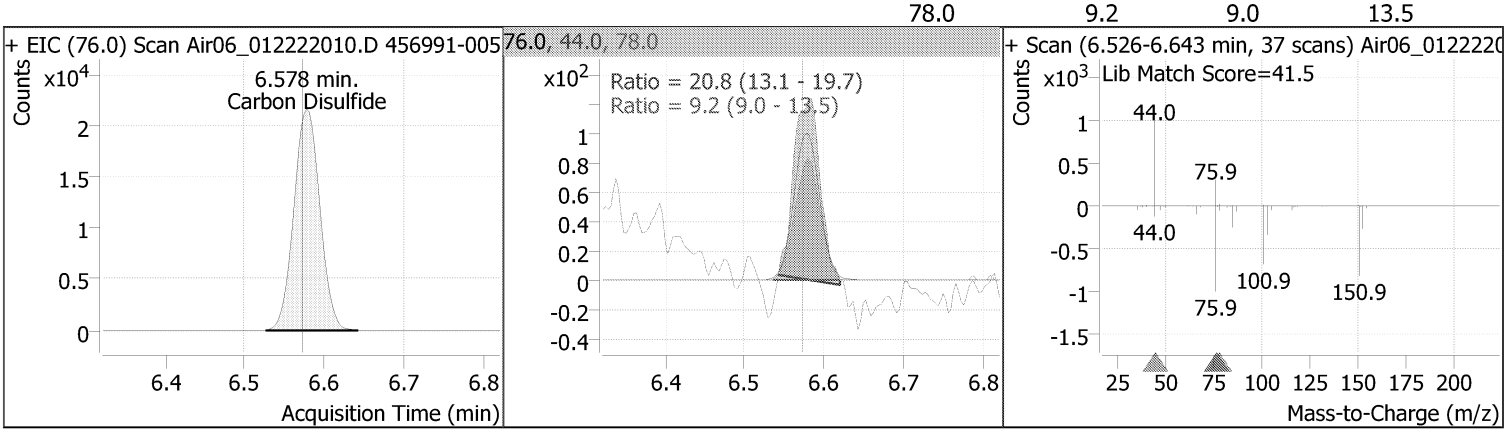

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 2.5515 | 6.58 | 0.18 | 49131 | 78.0 | 9.2 | 25.9 | 38.8 |



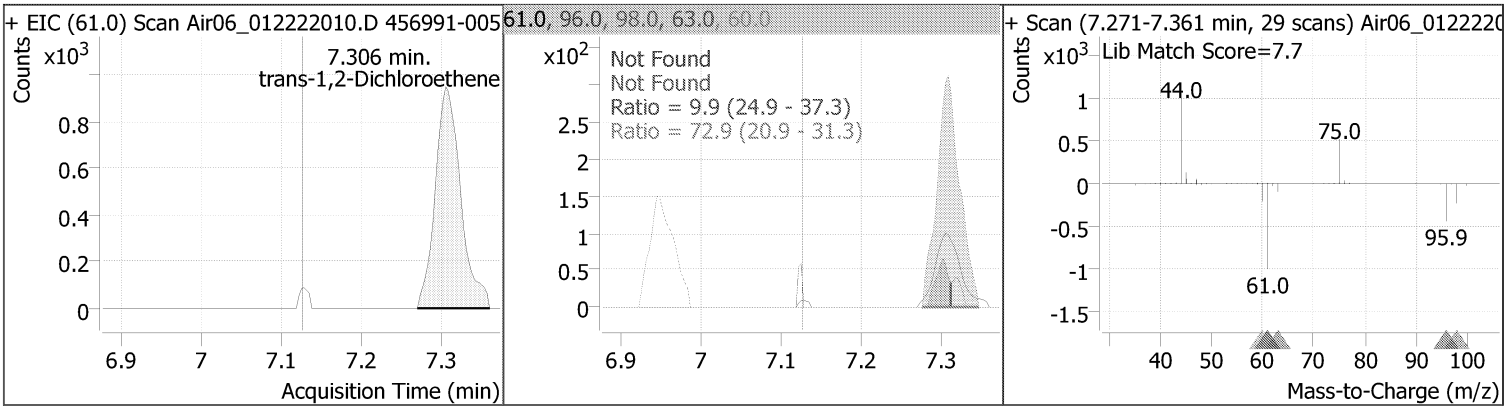

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.0271 | 6.55 | 0.01 | 2525 | 151.0 | 78.4 | 68.0 | 102.0 |
| | | | | | 103.0 | 65.6 | 51.5 | 77.2 |
| | | | | | 153.0 | 52.3 | 43.9 | 65.9 |
| | | | | | 85.0 | 49.5 | 36.4 | 54.6 |



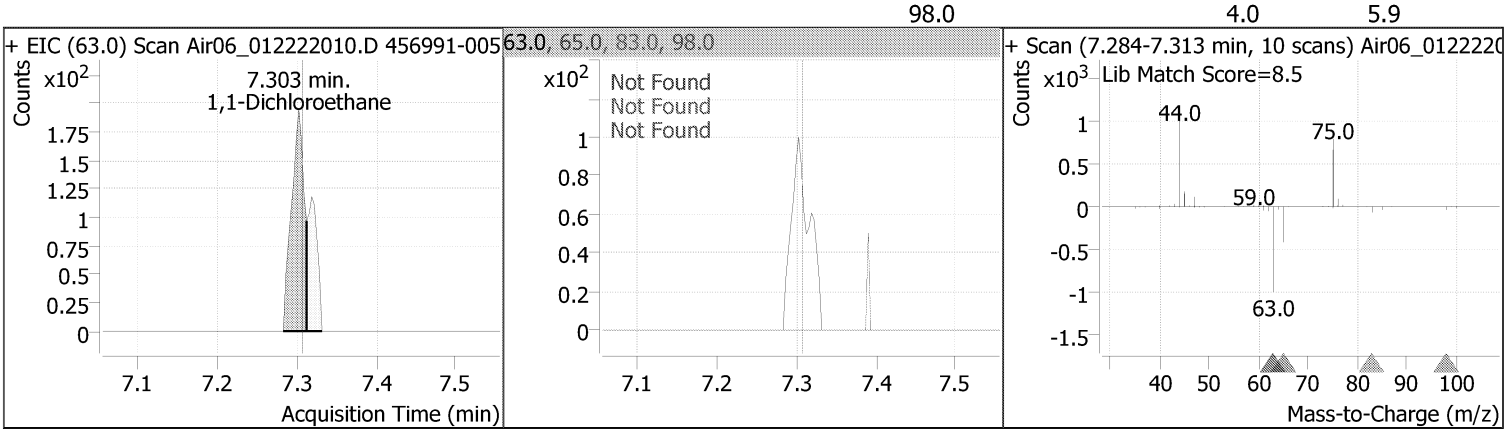
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.4070 | 6.58 | 0.01 | 49131 | 44.0 | 20.8 | 13.1 | 19.7 |
| | | | | | 78.0 | 9.2 | 9.0 | 13.5 |



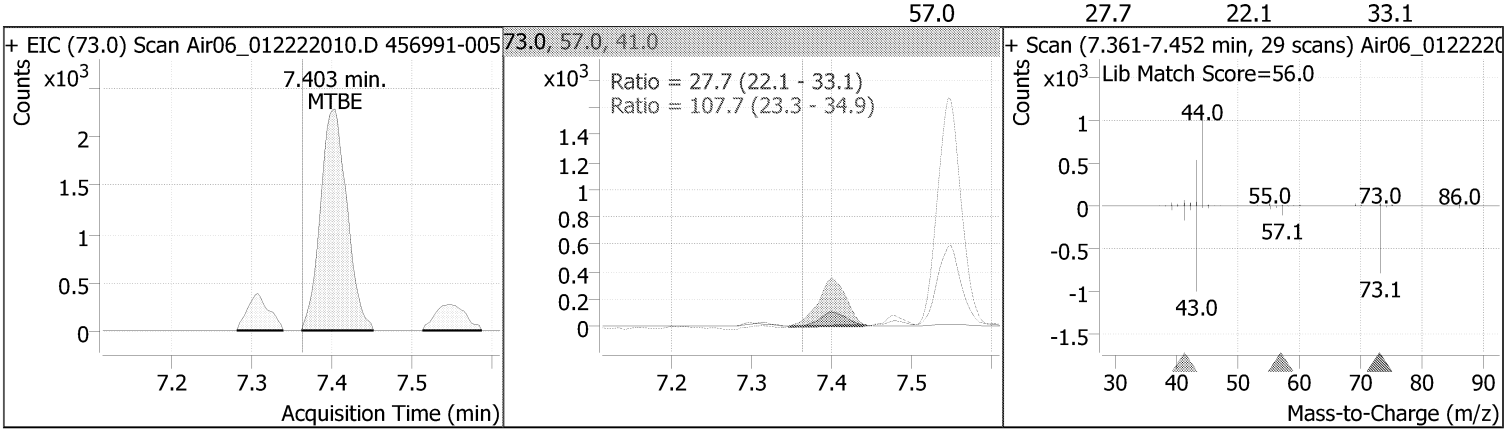

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.0291 | 7.31 | 0.18 | 2100 | 96.0 | | 45.6 | 68.4 |
| | | | | | 98.0 | | 29.2 | 43.8 |
| | | | | | 63.0 | 9.9 | 24.9 | 37.3 |
| | | | | | 60.0 | 72.9 | 20.9 | 31.3 |



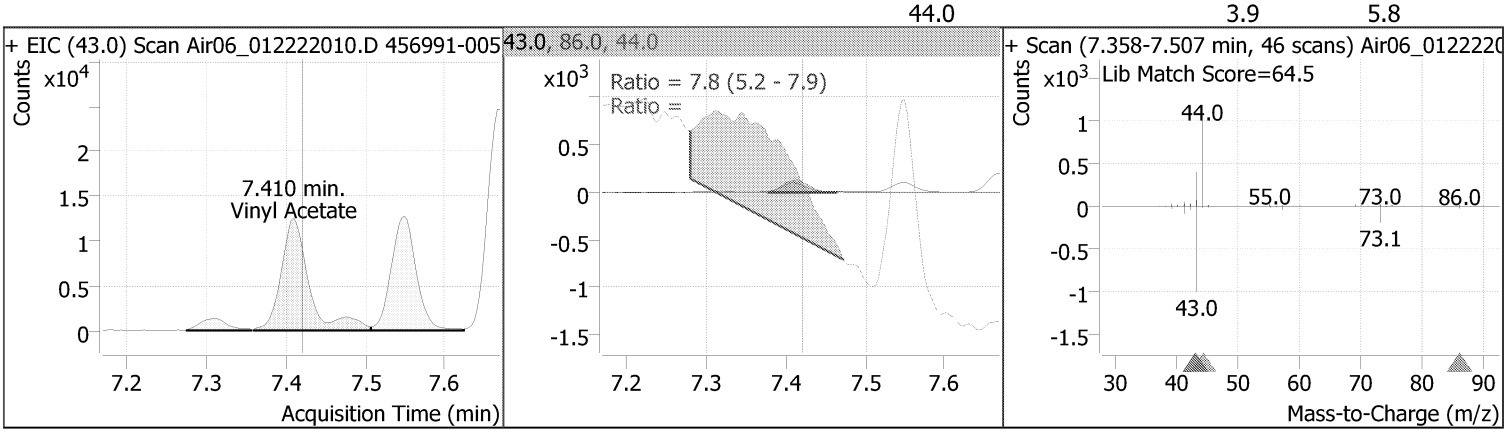

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.0023 | 7.30 | 0.00 | 207 | 65.0 | | 24.5 | 36.8 |
| | | | | | 83.0 | | 9.7 | 14.6 |
| | | | | | 98.0 | | 4.0 | 5.9 |



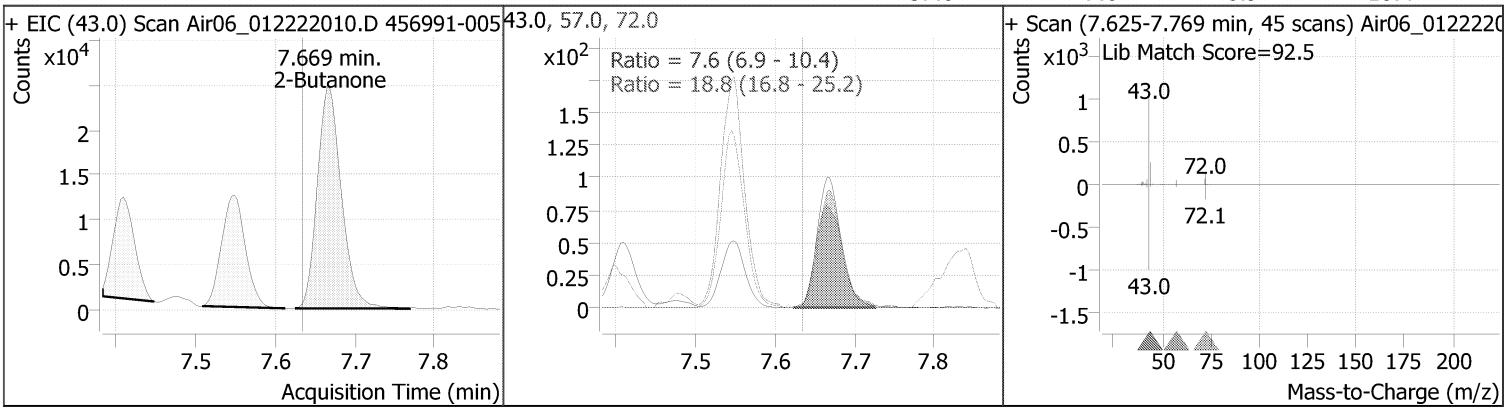
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.0454 | 7.40 | 0.05 | 5336 | 41.0 | 107.7 | 23.3 | 34.9 |
| | | | | | 57.0 | 27.7 | 22.1 | 33.1 |



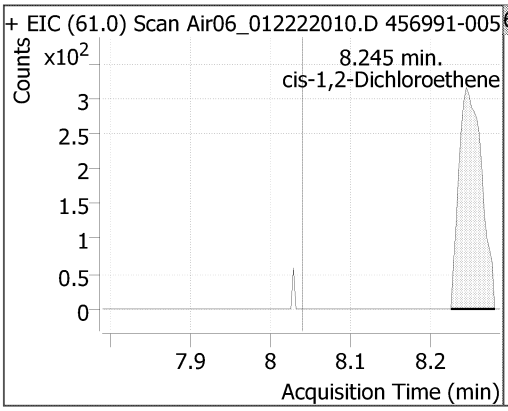

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.2060 | 7.41 | -0.01 | 30681 | 86.0 | 7.8 | 5.2 | 7.9 |
| | | | | | 44.0 | | 3.9 | 5.8 |

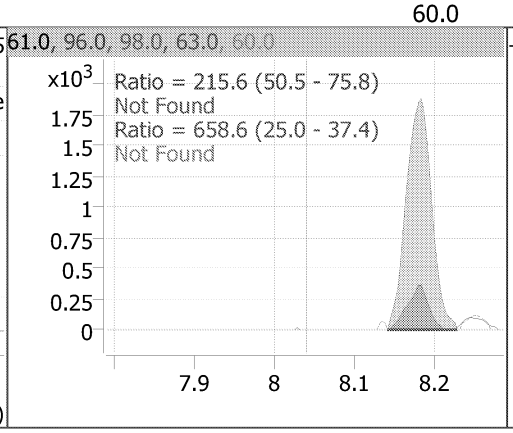


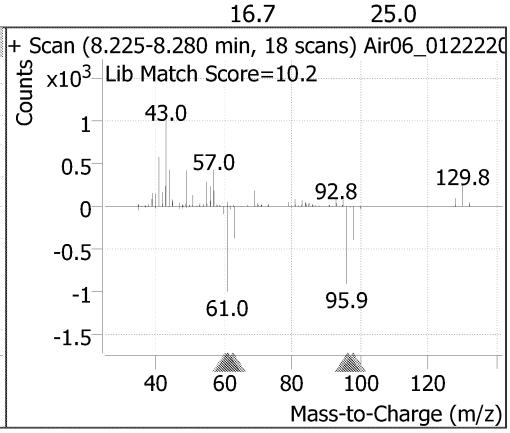

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.4508 | 7.67 | 0.04 | 51733 | 72.0 | 18.8 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.6 | 6.9 | 10.4 |



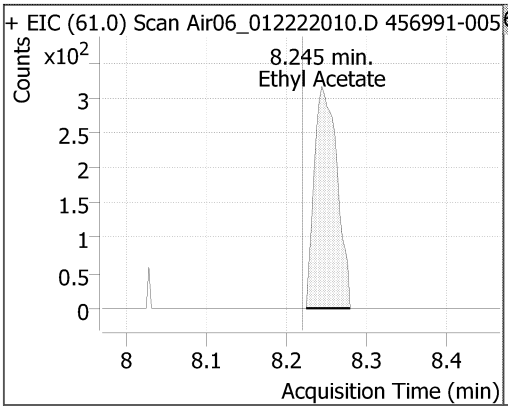
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.0086 | 8.24 | 0.21 | 626 | 96.0 | 215.6 | 50.5 | 75.8 |
| | | | | | 98.0 | | 32.0 | 48.0 |
| | | | | | 63.0 | 658.6 | 25.0 | 37.4 |
| | | | | | 60.0 | | 16.7 | 25.0 |

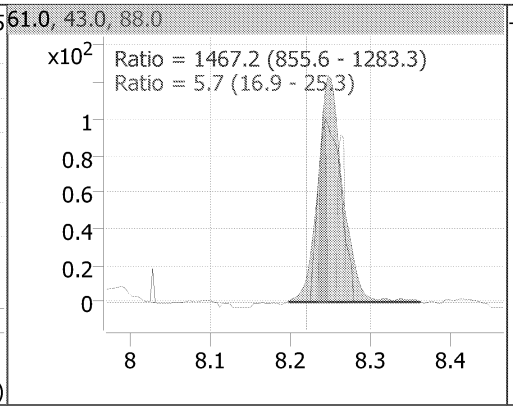


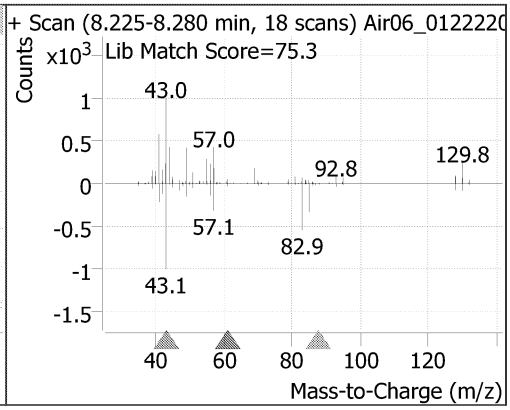



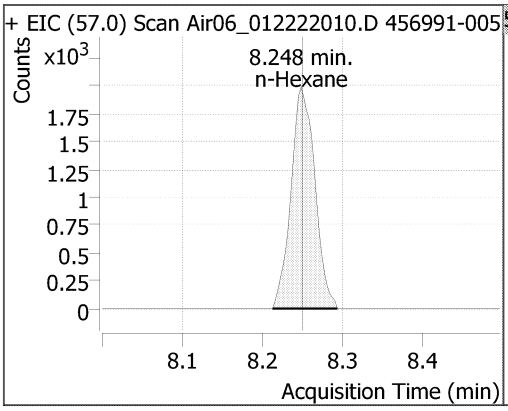

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.0347 | 8.24 | 0.03 | 626 | 43.0 | 1467.2 | 855.6 | 1283.3 |
| | | | | | 88.0 | 5.7 | 16.9 | 25.3 |

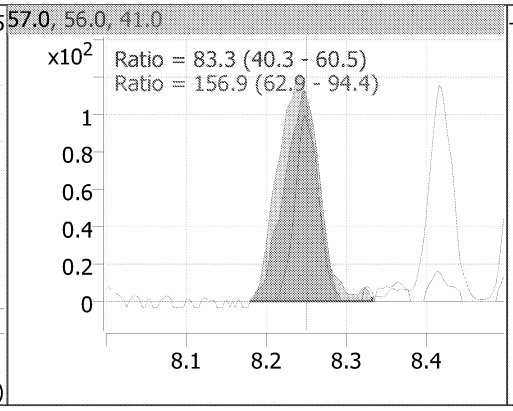


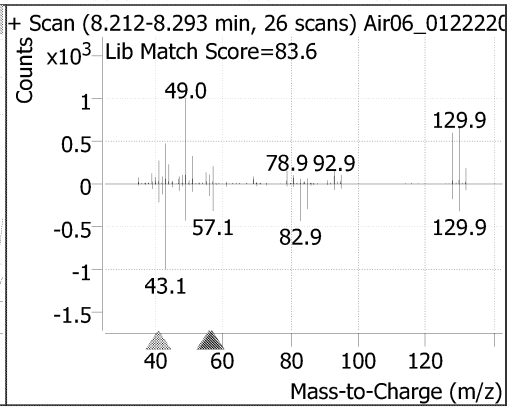



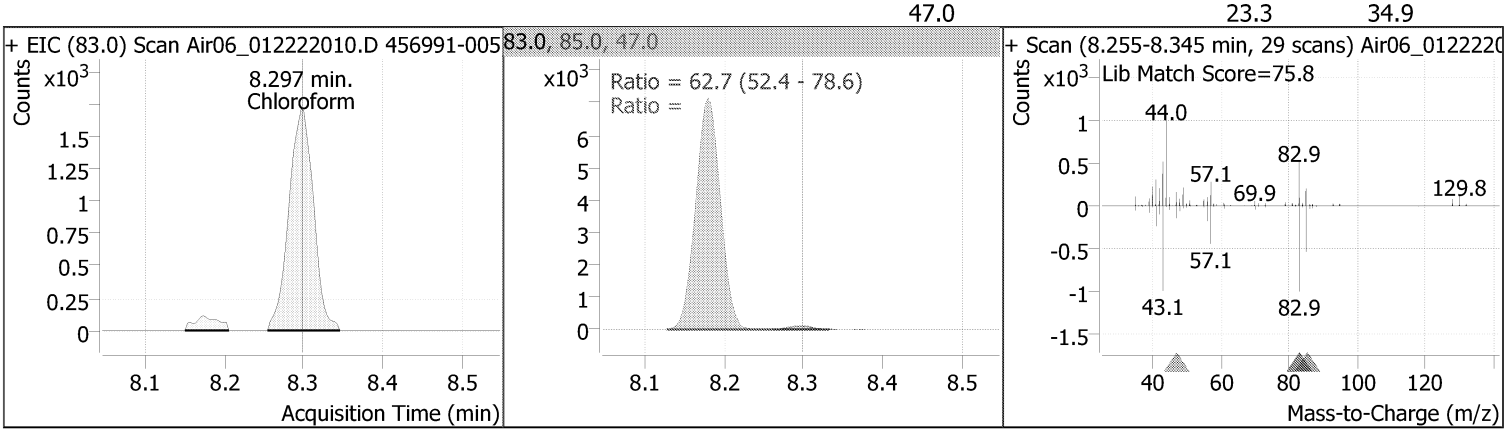

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0501 | 8.25 | 0.00 | 4144 | 41.0 | 156.9 | 62.9 | 94.4 |
| | | | | | 56.0 | 83.3 | 40.3 | 60.5 |



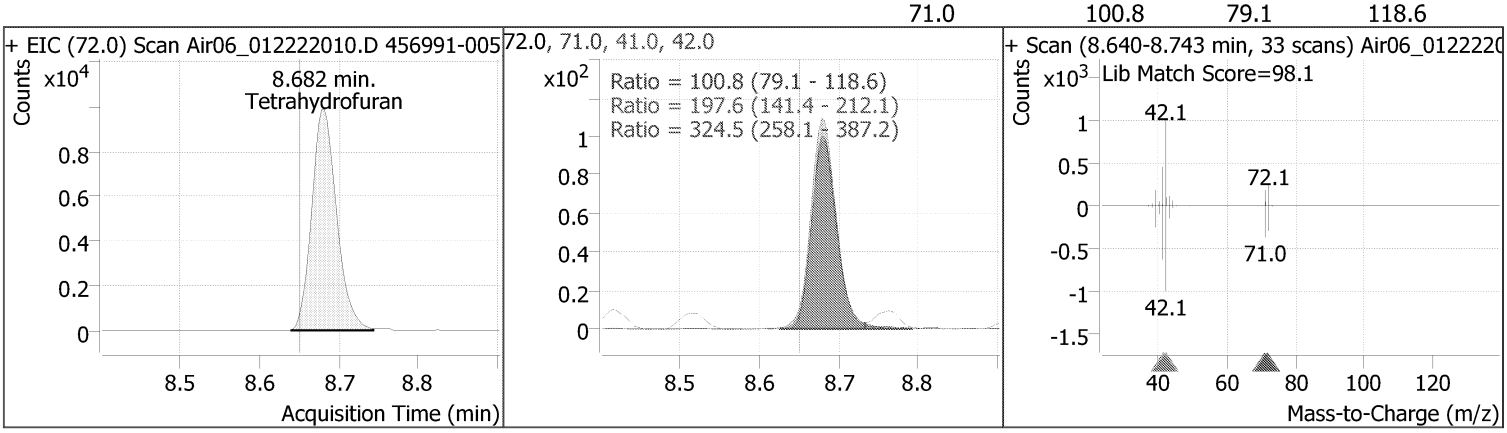



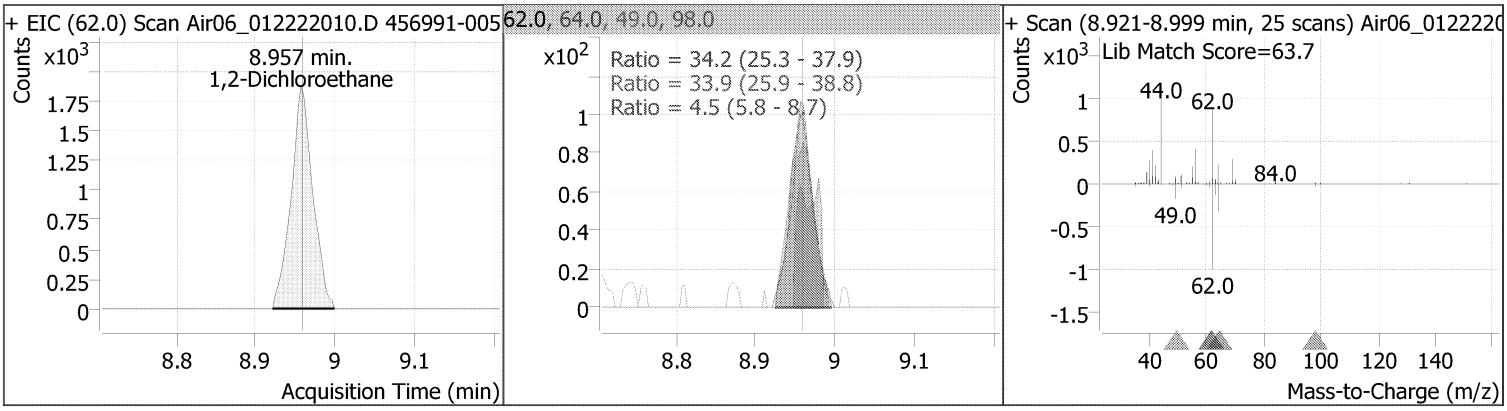
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0395 | 8.30 | 0.00 | 3689 | 85.0 | 62.7 | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



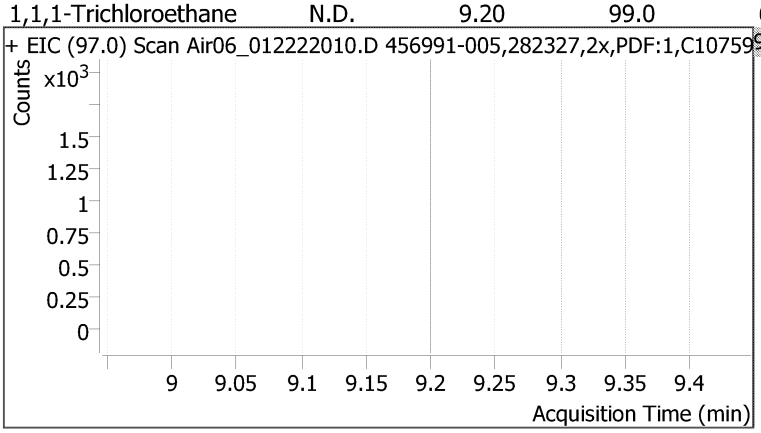

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 1.0458 | 8.68 | 0.03 | 21524 | 42.0 | 324.5 | 258.1 | 387.2 |
| | | | | | 41.0 | 197.6 | 141.4 | 212.1 |
| | | | | | 71.0 | 100.8 | 79.1 | 118.6 |

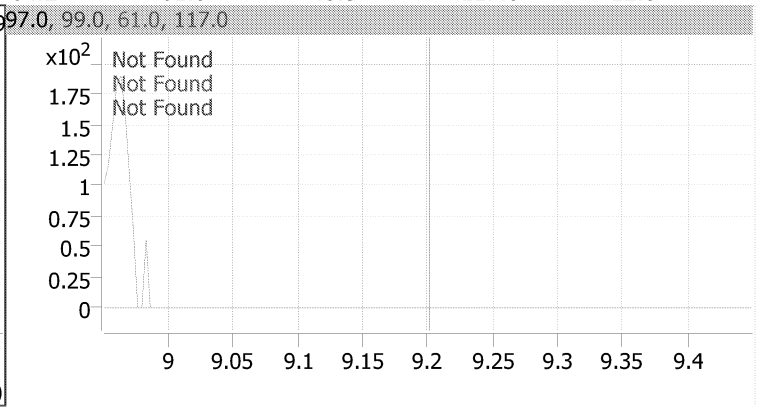



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0519 | 8.96 | 0.00 | 3546 | 49.0 | 33.9 | 25.9 | 38.8 |
| | | | | | 64.0 | 34.2 | 25.3 | 37.9 |
| | | | | | 98.0 | 4.5 | 5.8 | 8.7 |

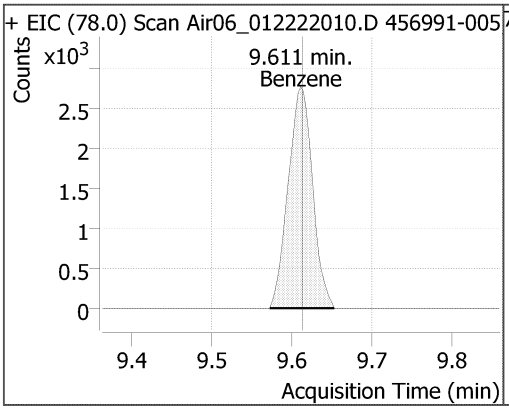


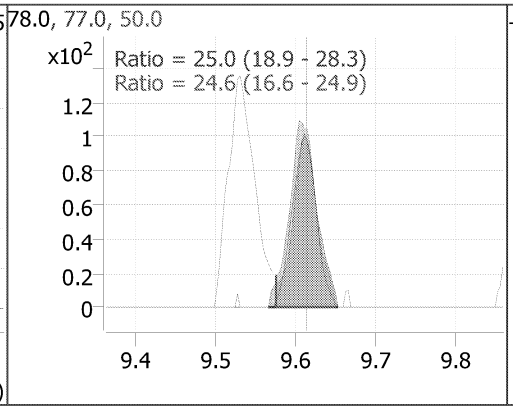
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | N.D. | 9.20 | 99.0 | 64.2 | 61.0 | 48.3 | 117.0 | 12.8 |

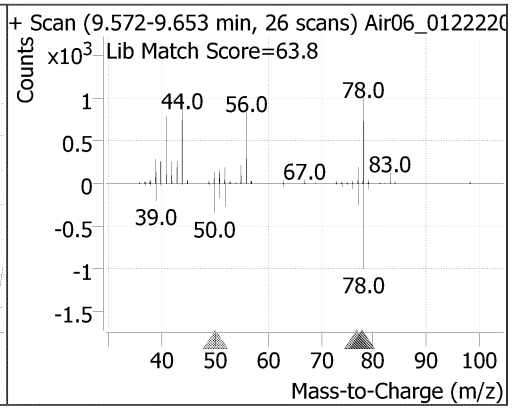


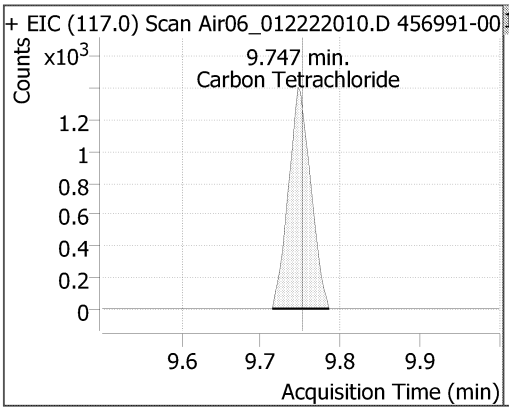

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0441 | 9.61 | 0.00 | 5936 | 77.0 | 25.0 | 18.9 | 28.3 |
| | | | | | 50.0 | 24.6 | 16.6 | 24.9 |

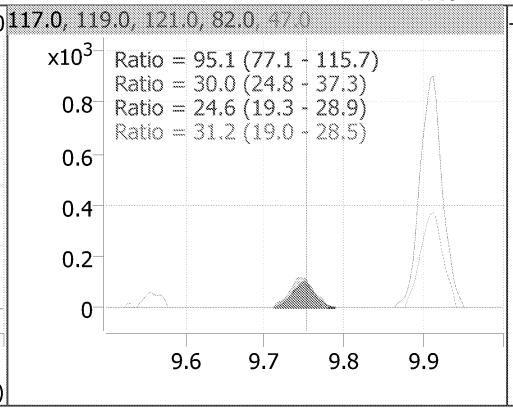


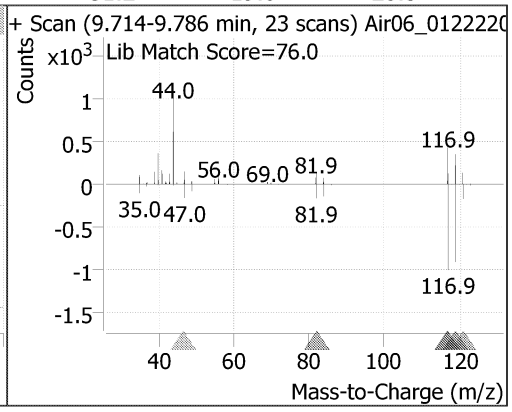



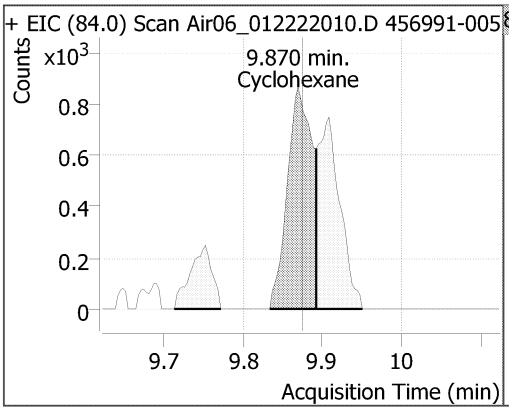

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.0284 | 9.75 | 0.00 | 2732 | 119.0 | 95.1 | 77.1 | 115.7 |
| | | | | | 121.0 | 30.0 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.6 | 19.3 | 28.9 |
| | | | | | 47.0 | 31.2 | 19.0 | 28.5 |

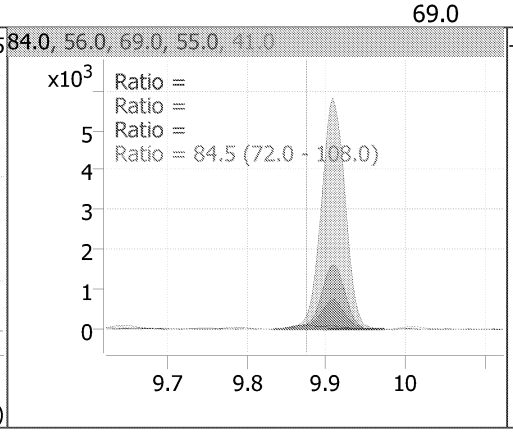


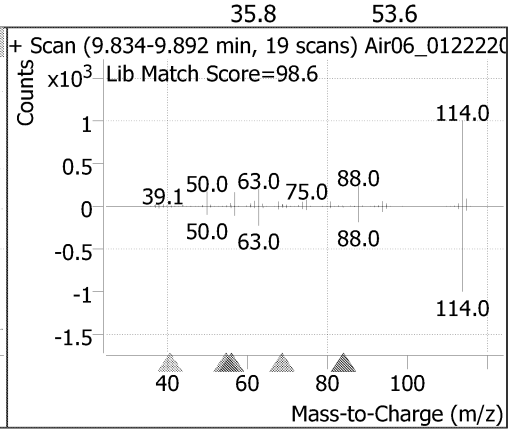



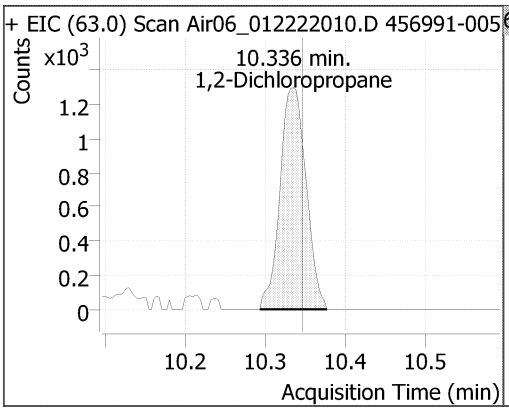
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0325 | 9.87 | 0.00 | 1828 | 56.0 | | 131.3 | 197.0 |
| | | | | | 41.0 | 84.5 | 72.0 | 108.0 |
| | | | | | 55.0 | | 48.2 | 72.3 |
| | | | | | 69.0 | | 35.8 | 53.6 |

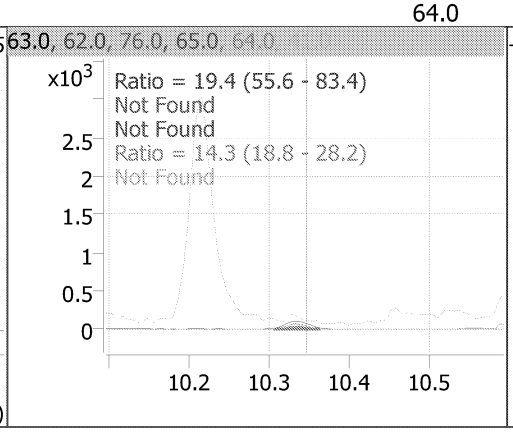


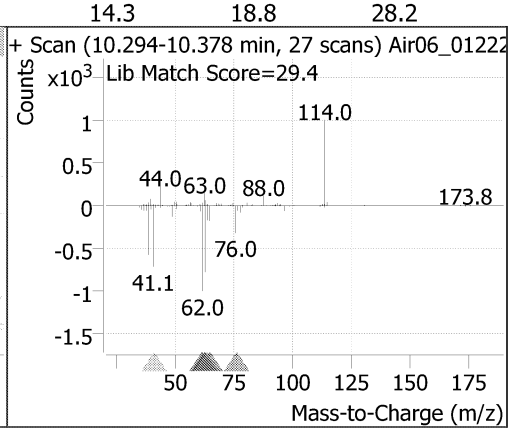



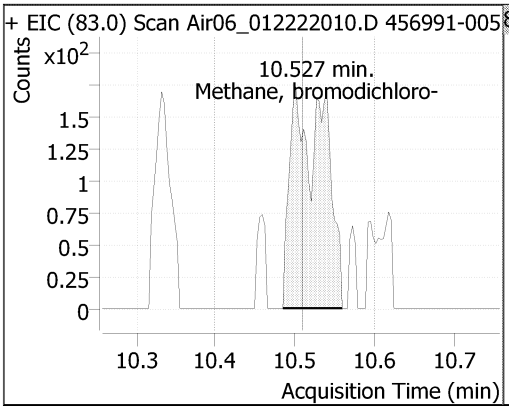

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0467 | 10.34 | -0.01 | 2965 | 62.0 | 19.4 | 55.6 | 83.4 |
| | | | | | 41.0 | | 46.5 | 69.7 |
| | | | | | 76.0 | | 28.4 | 42.6 |
| | | | | | 65.0 | | 23.7 | 35.6 |
| | | | | | 64.0 | 14.3 | 18.8 | 28.2 |

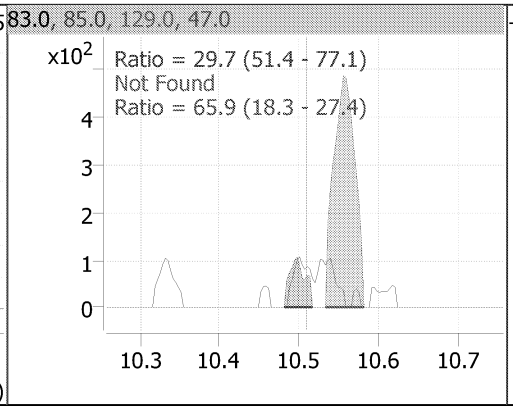


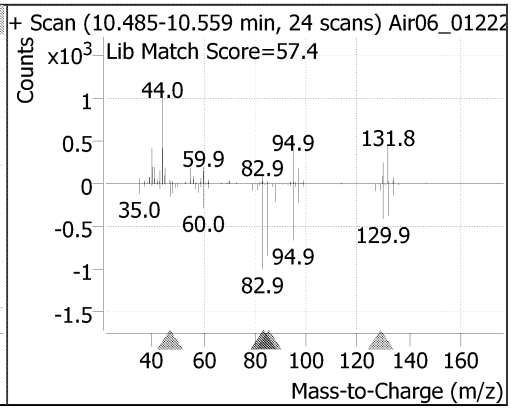



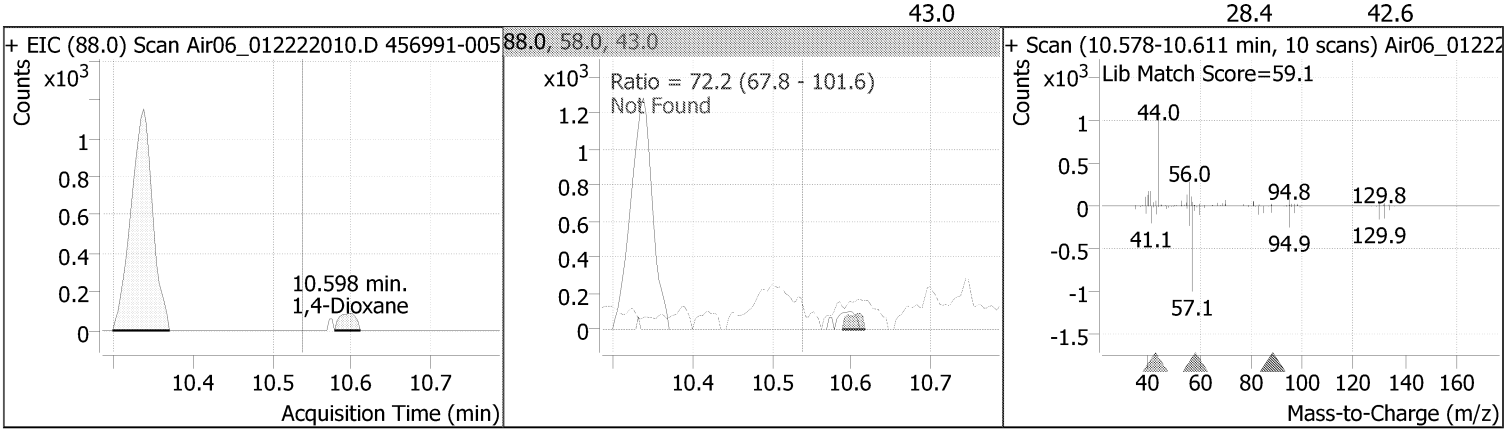

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0050 | 10.53 | 0.02 | 520 | 85.0 | 29.7 | 51.4 | 77.1 |
| | | | | | 47.0 | 65.9 | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



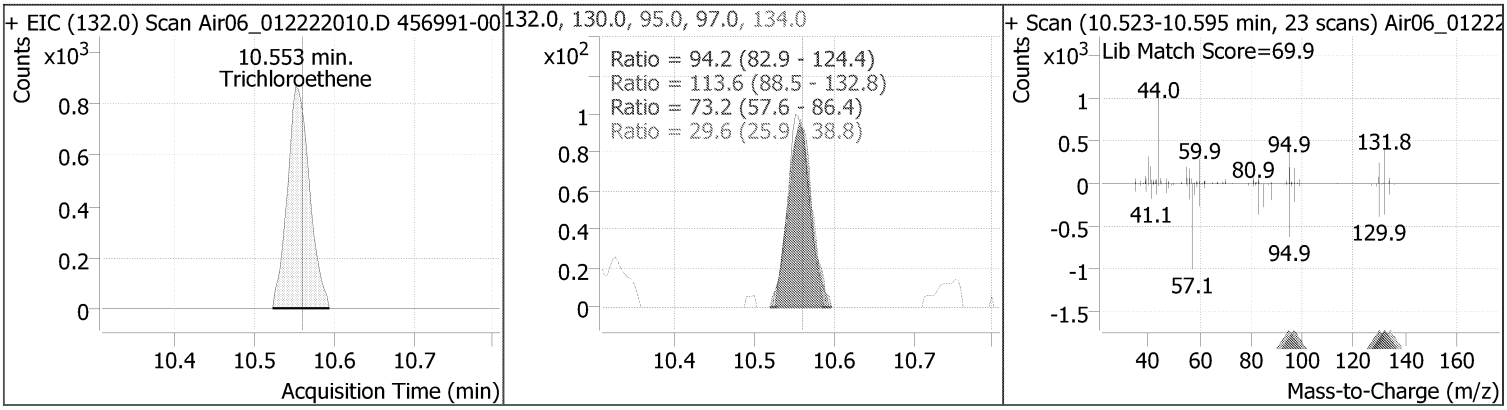



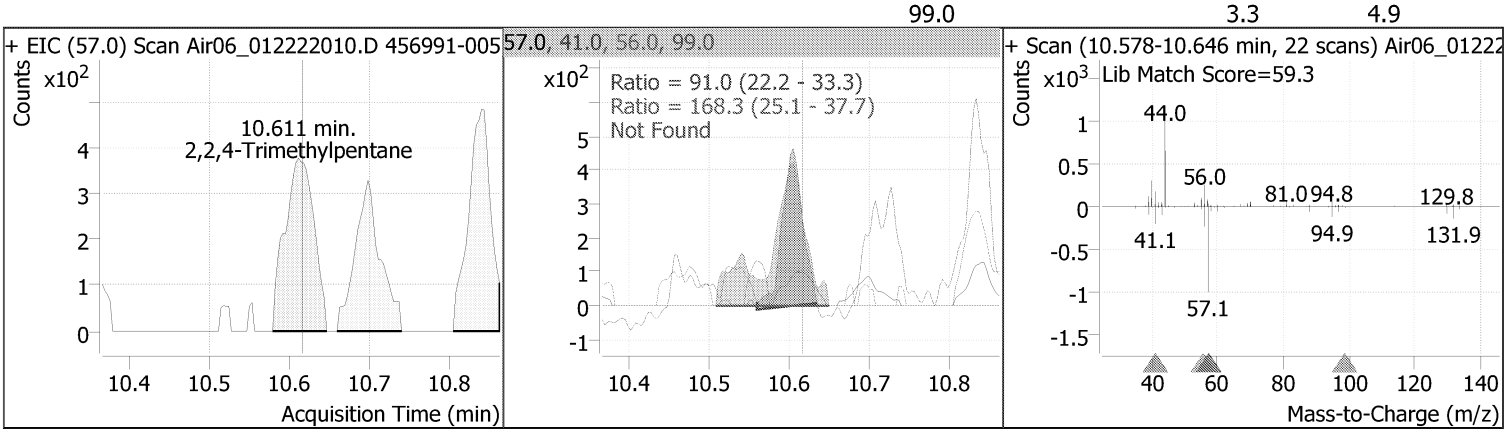
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0039 | 10.60 | 0.06 | 131 | 58.0 | 72.2 | 67.8 | 101.6 |
| | | | | | 43.0 | | 28.4 | 42.6 |



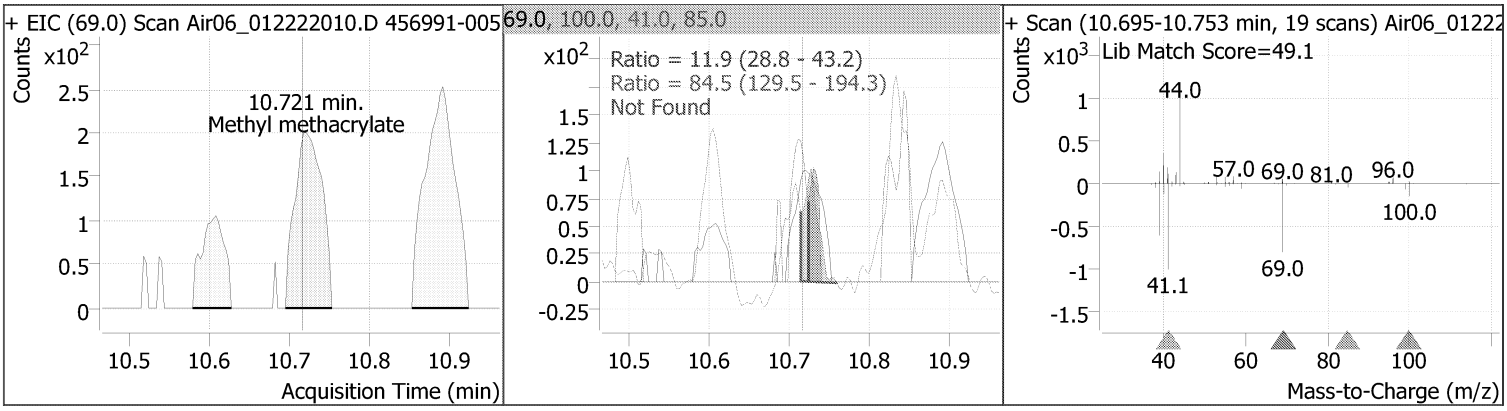

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0260 | 10.55 | 0.00 | 1678 | 95.0 | 113.6 | 88.5 | 132.8 |
| | | | | | 130.0 | 94.2 | 82.9 | 124.4 |
| | | | | | 97.0 | 73.2 | 57.6 | 86.4 |
| | | | | | 134.0 | 29.6 | 25.9 | 38.8 |



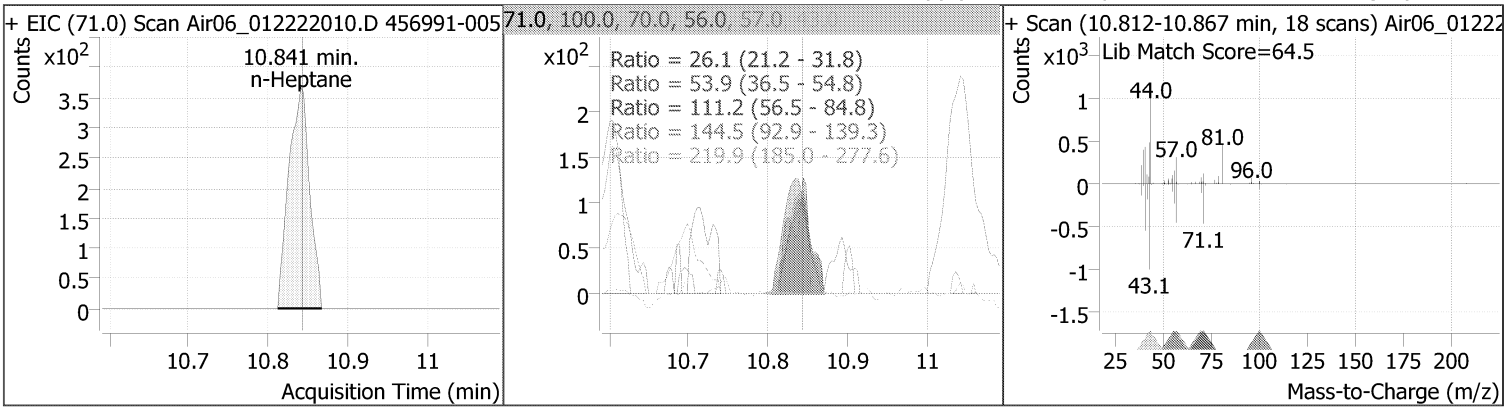

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0033 | 10.61 | 0.00 | 962 | 56.0 | 168.3 | 25.1 | 37.7 |
| | | | | | 41.0 | 91.0 | 22.2 | 33.3 |
| | | | | | 99.0 | | 3.3 | 4.9 |



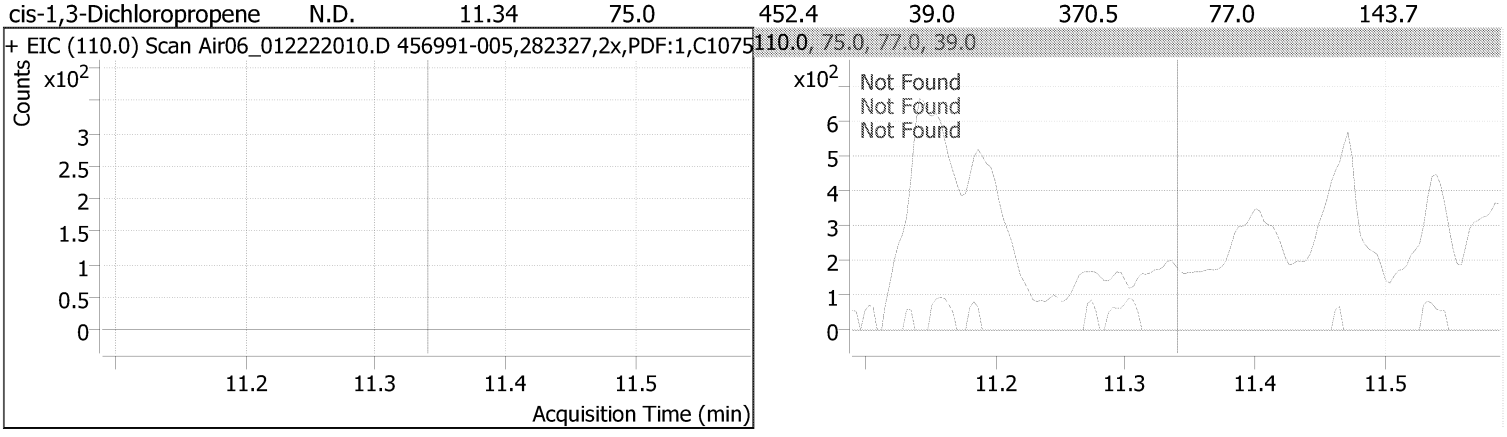
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0089 | 10.72 | 0.01 | 480 | 41.0 | 84.5 | 129.5 | 194.3 |
| | | | | | 100.0 | 11.9 | 28.8 | 43.2 |
| | | | | | 85.0 | | 7.3 | 10.9 |



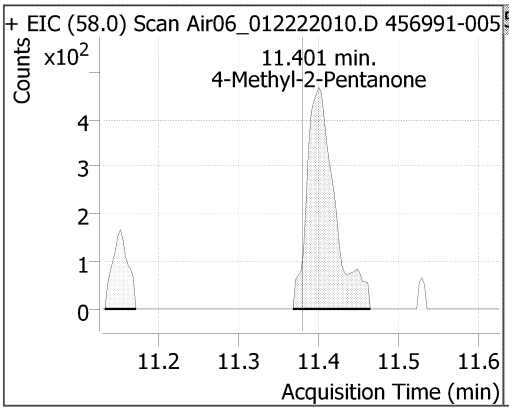

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.0133 | 10.84 | 0.00 | 665 | 43.0 | 219.9 | 185.0 | 277.6 |
| | | | | | 57.0 | 144.5 | 92.9 | 139.3 |
| | | | | | 56.0 | 111.2 | 56.5 | 84.8 |
| | | | | | 70.0 | 53.9 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.1 | 21.2 | 31.8 |

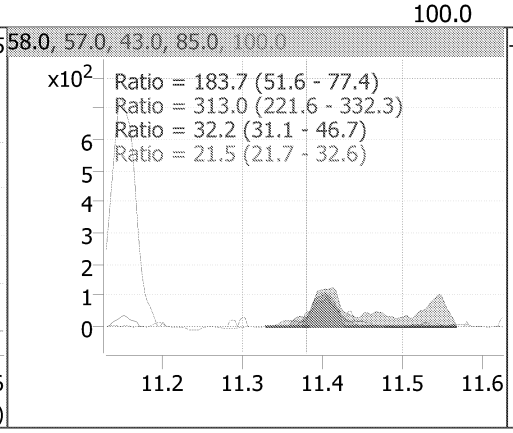


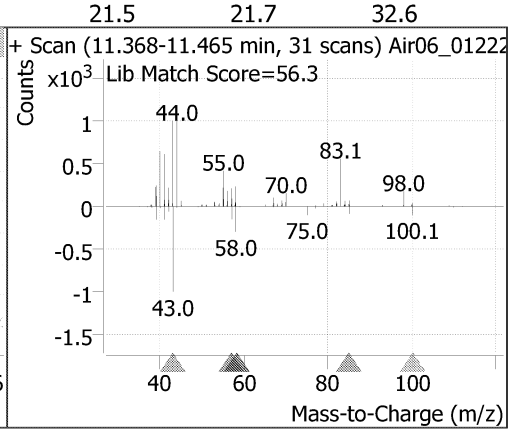

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | N.D. | 11.34 | 75.0 | 452.4 | 39.0 | 370.5 | 77.0 | 143.7 |



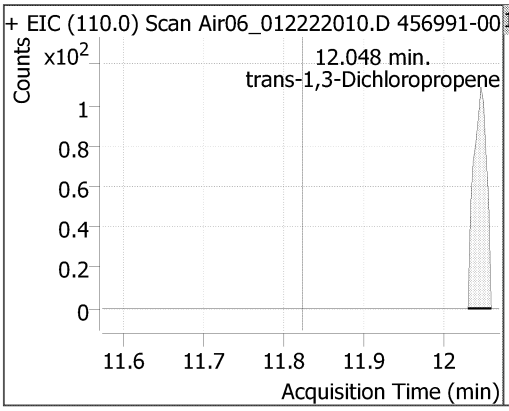
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0203 | 11.40 | 0.03 | 1132 | 43.0 | 313.0 | 221.6 | 332.3 |
| | | | | | 57.0 | 183.7 | 51.6 | 77.4 |
| | | | | | 85.0 | 32.2 | 31.1 | 46.7 |
| | | | | | 100.0 | 21.5 | 21.7 | 32.6 |

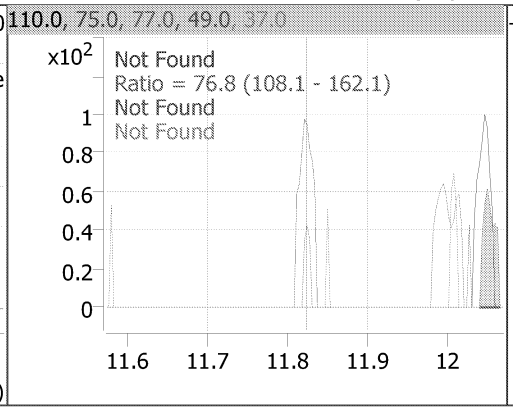


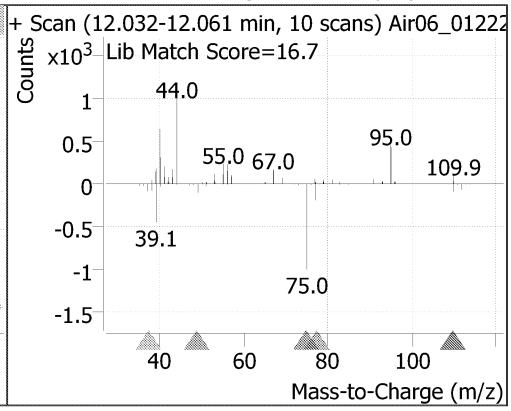



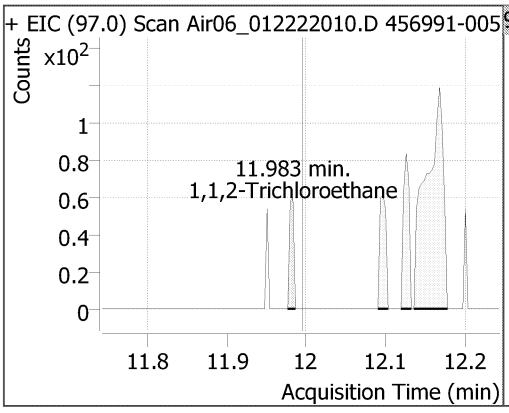

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.0060 | 12.05 | 0.23 | 124 | 75.0 | | 340.2 | 510.3 |
| | | | | | 77.0 | 76.8 | 108.1 | 162.1 |
| | | | | | 49.0 | | 88.0 | 132.1 |
| | | | | | 37.0 | | 43.2 | 64.8 |

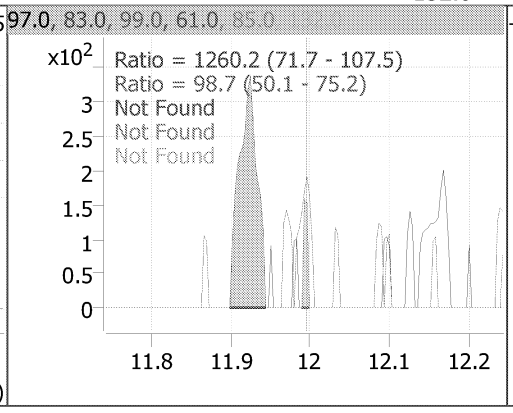


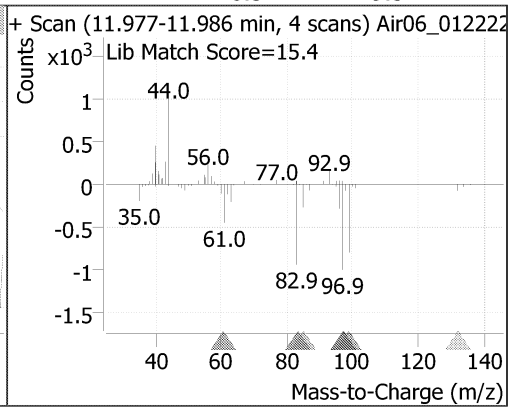



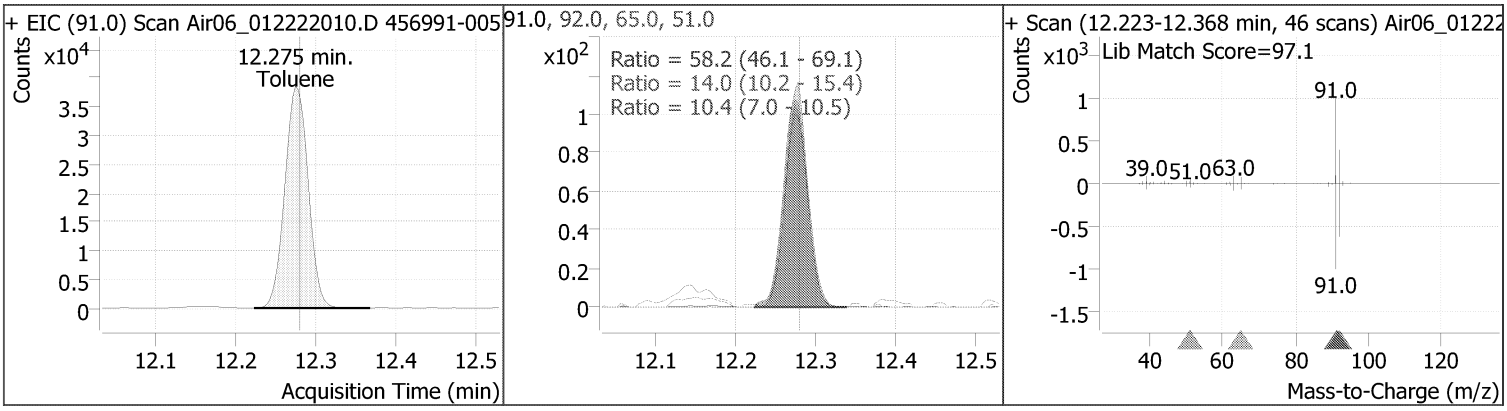

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.0004 | 11.98 | -0.01 | 23 | 83.0 | 1260.2 | 71.7 | 107.5 |
| | | | | | 61.0 | | 56.8 | 85.2 |
| | | | | | 99.0 | 98.7 | 50.1 | 75.2 |
| | | | | | 85.0 | | 46.0 | 69.0 |
| | | | | | 132.0 | | 6.3 | 9.5 |



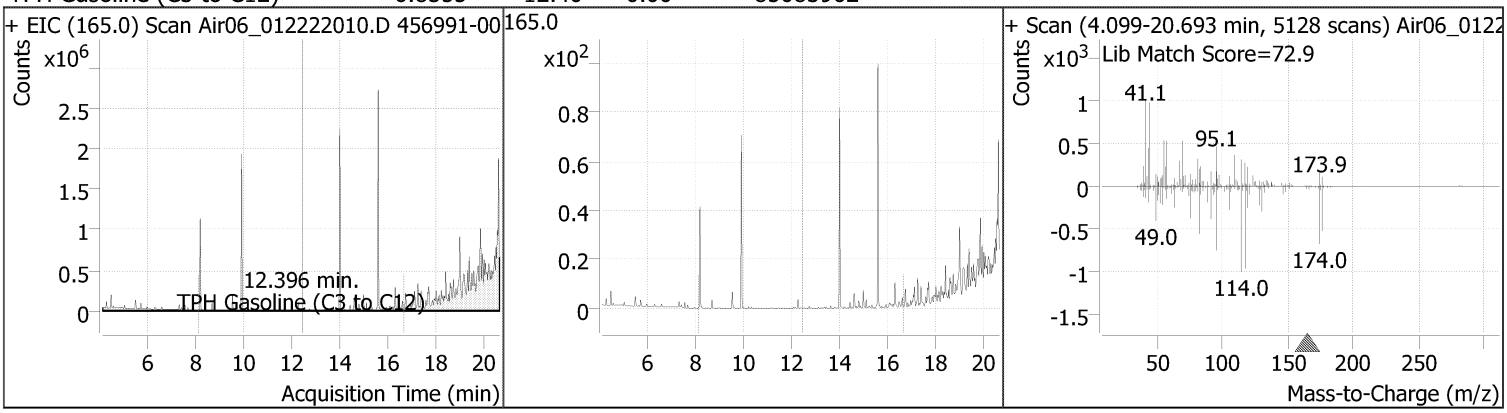



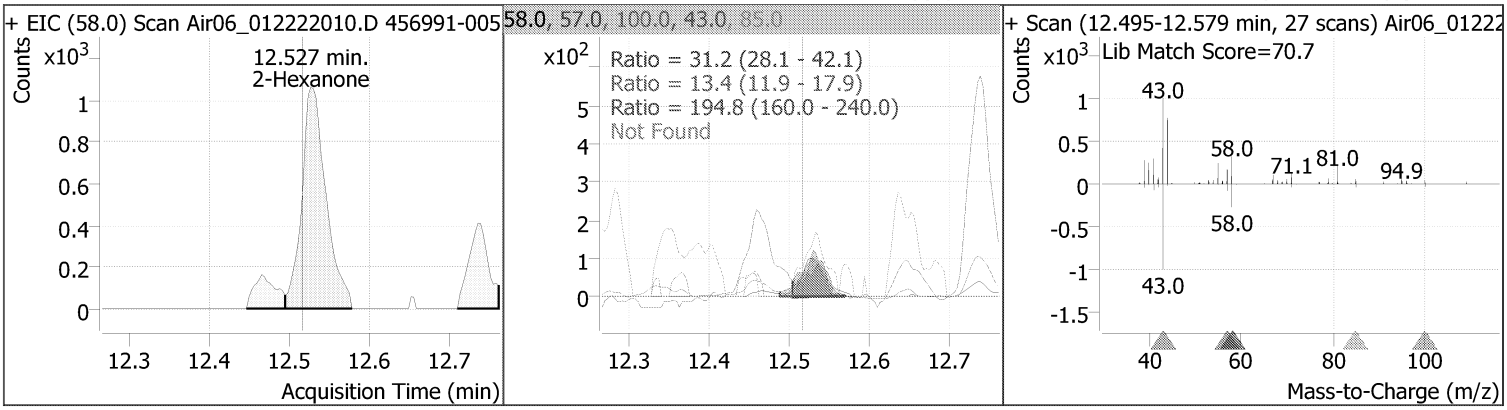
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.4294 | 12.27 | 0.00 | 78931 | 92.0 | 58.2 | 46.1 | 69.1 |
| | | | | | 65.0 | 14.0 | 10.2 | 15.4 |
| | | | | | 51.0 | 10.4 | 7.0 | 10.5 |



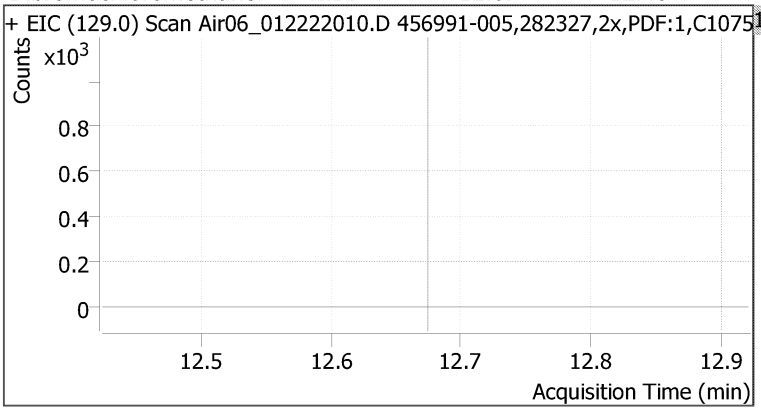

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 6.8355 | 12.40 | 0.00 | 85083962 | | | | |

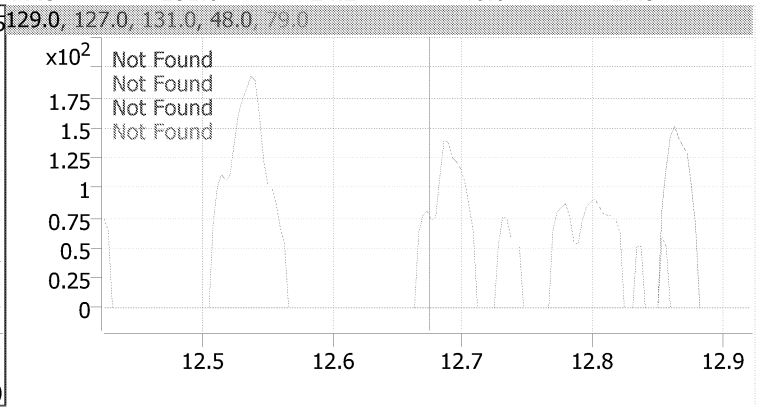



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.0315 | 12.53 | 0.02 | 2257 | 43.0 | 194.8 | 160.0 | 240.0 |
| | | | | | 57.0 | 31.2 | 28.1 | 42.1 |
| | | | | | 100.0 | 13.4 | 11.9 | 17.9 |
| | | | | | 85.0 | | 11.0 | 16.5 |

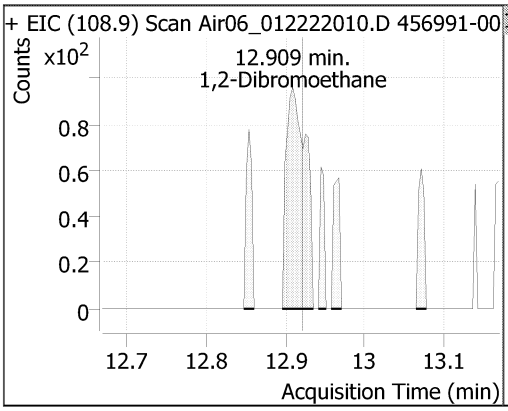


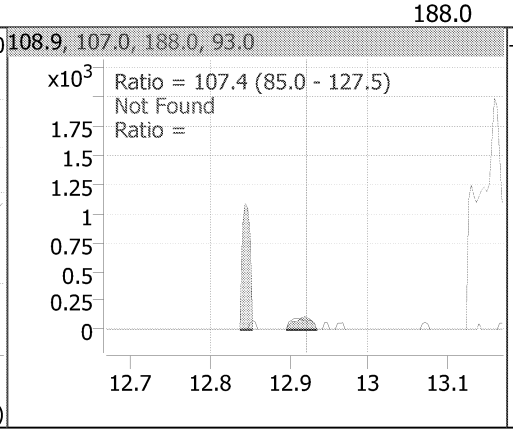
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | N.D. | 12.67 | 127.0 | 77.5 | 131.0 | 24.2 | 48.0 | 17.5 |

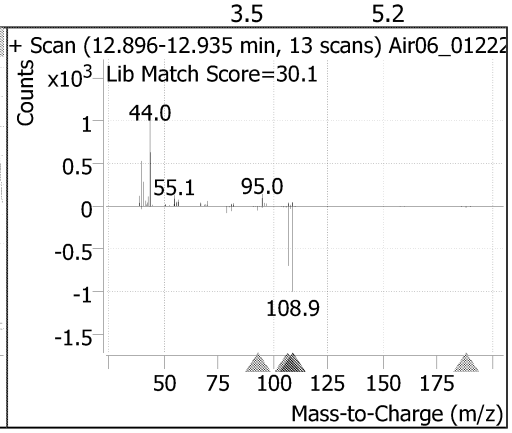


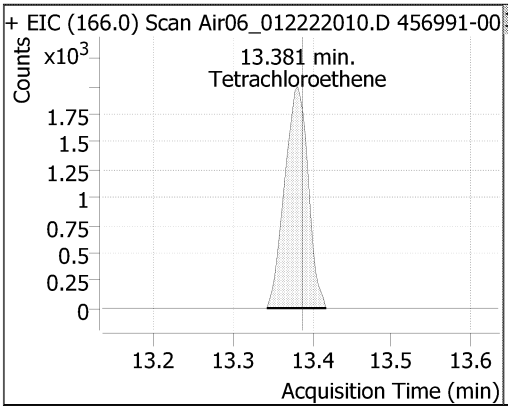

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.0018 | 12.91 | -0.01 | 165 | 107.0 | 107.4 | 85.0 | 127.5 |
| | | | | | 93.0 | | 5.4 | 8.1 |
| | | | | | 188.0 | | 3.5 | 5.2 |

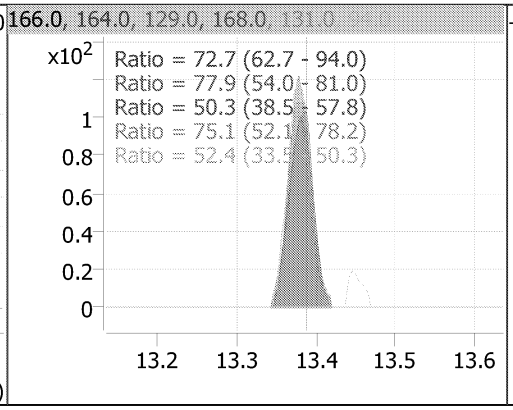


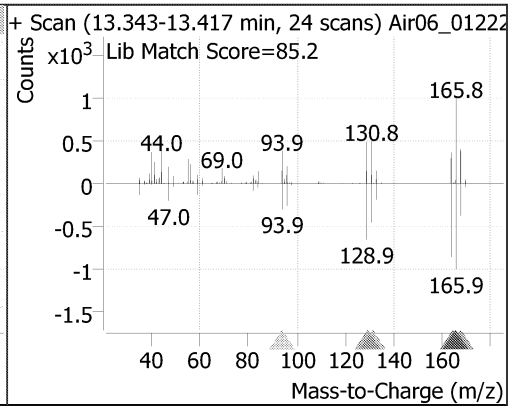



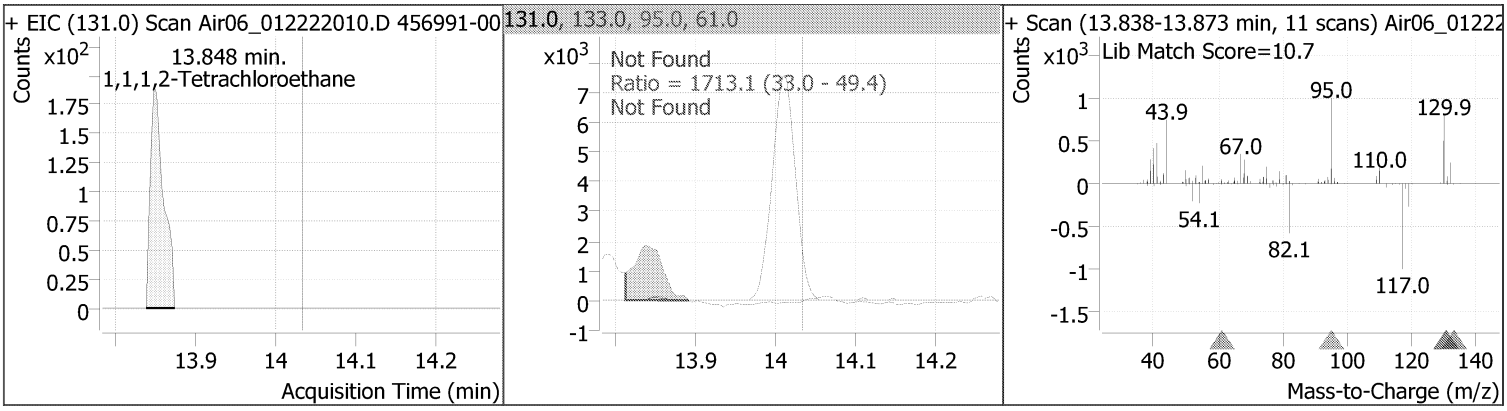

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0432 | 13.38 | 0.00 | 4102 | 164.0 | 72.7 | 62.7 | 94.0 |
| | | | | | 129.0 | 77.9 | 54.0 | 81.0 |
| | | | | | 131.0 | 75.1 | 52.1 | 78.2 |
| | | | | | 168.0 | 50.3 | 38.5 | 57.8 |
| | | | | | 94.0 | 52.4 | 33.5 | 50.3 |



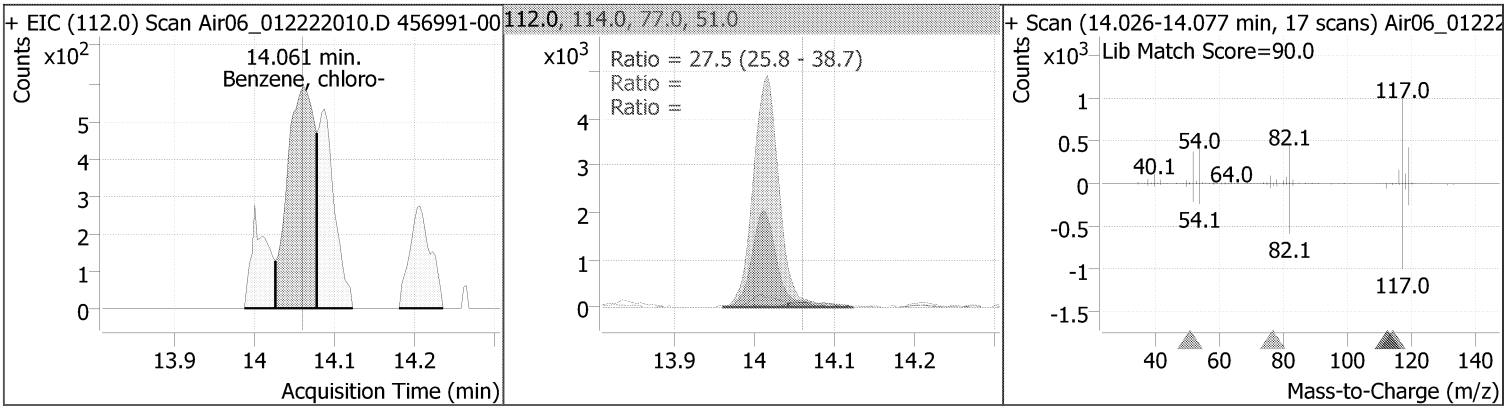



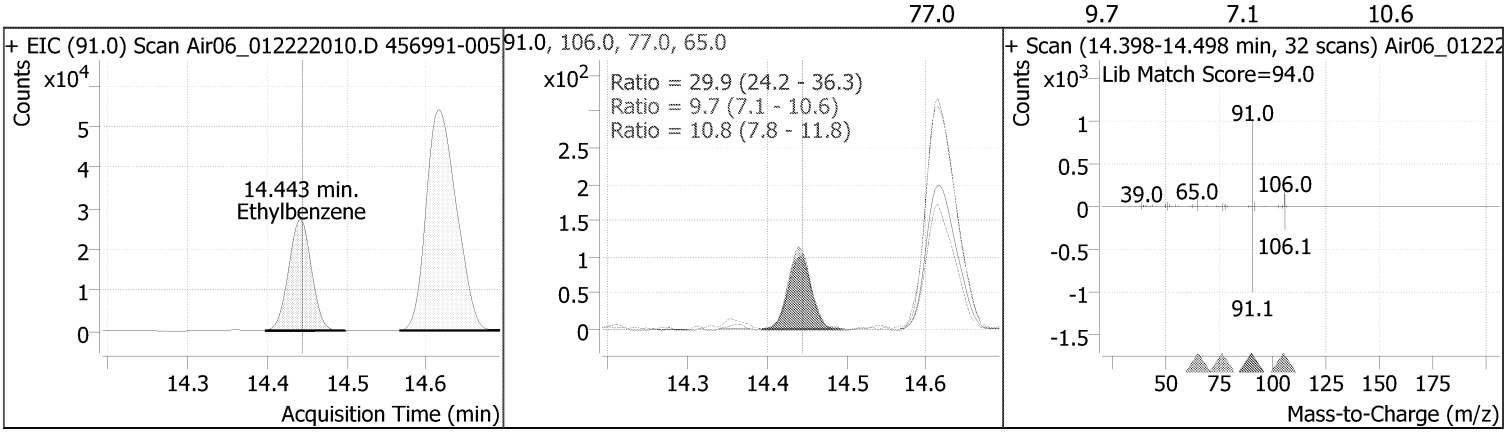
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0033 | 13.85 | -0.19 | 220 | 133.0 | | 76.9 | 115.3 |
| | | | | | 95.0 | 1713.1 | 33.0 | 49.4 |
| | | | | | 61.0 | | 25.4 | 38.1 |



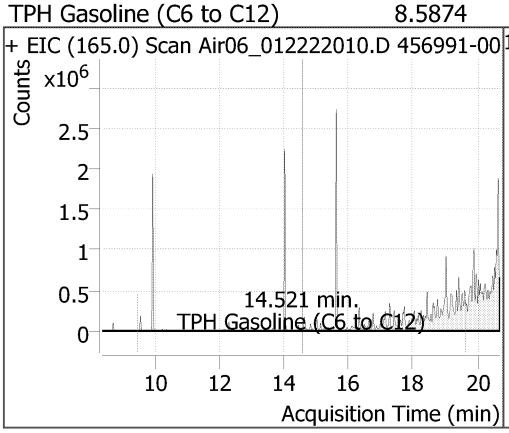

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0103 | 14.06 | 0.00 | 1359 | 77.0 | | 50.5 | 75.7 |
| | | | | | 114.0 | 27.5 | 25.8 | 38.7 |
| | | | | | 51.0 | | 23.4 | 35.1 |

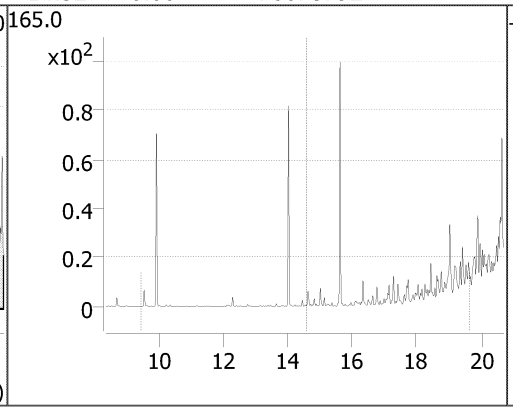


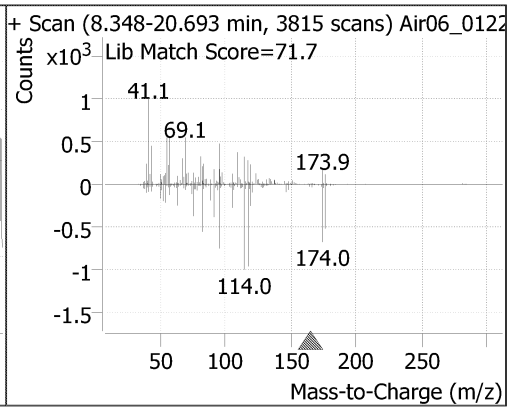

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.2577 | 14.44 | 0.00 | 54185 | 106.0 | 29.9 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.8 | 7.8 | 11.8 |
| | | | | | 77.0 | 9.7 | 7.1 | 10.6 |



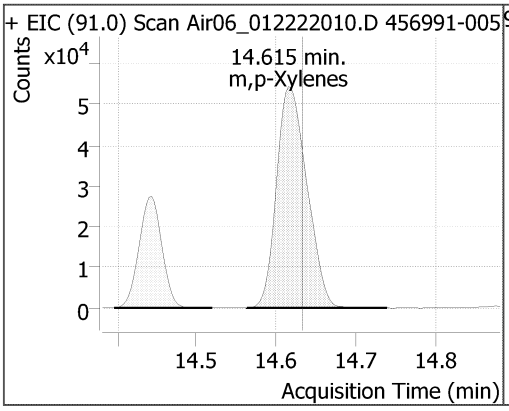
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 8.5874 | 14.52 | 0.00 | 78073792 | | | | |

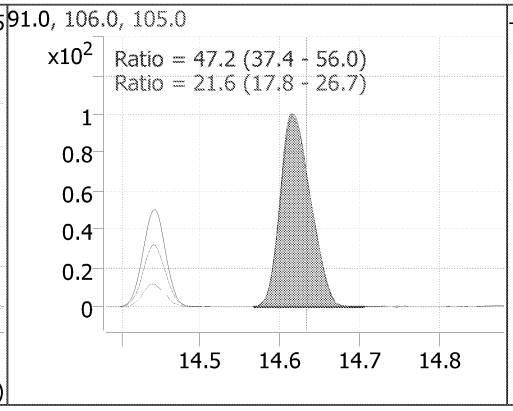


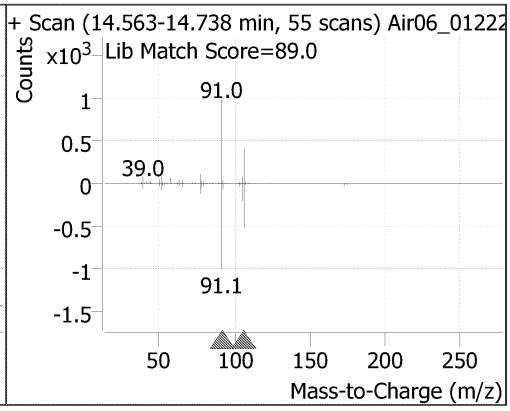



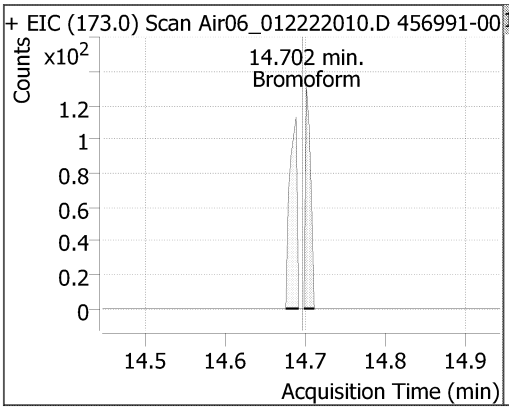

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.8506 | 14.61 | -0.02 | 143822 | 106.0 | 47.2 | 37.4 | 56.0 |
| | | | | | 105.0 | 21.6 | 17.8 | 26.7 |

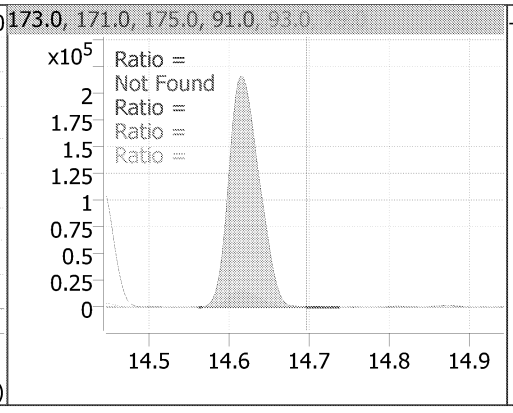


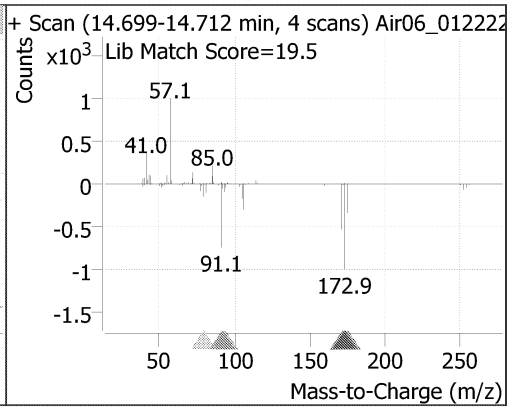



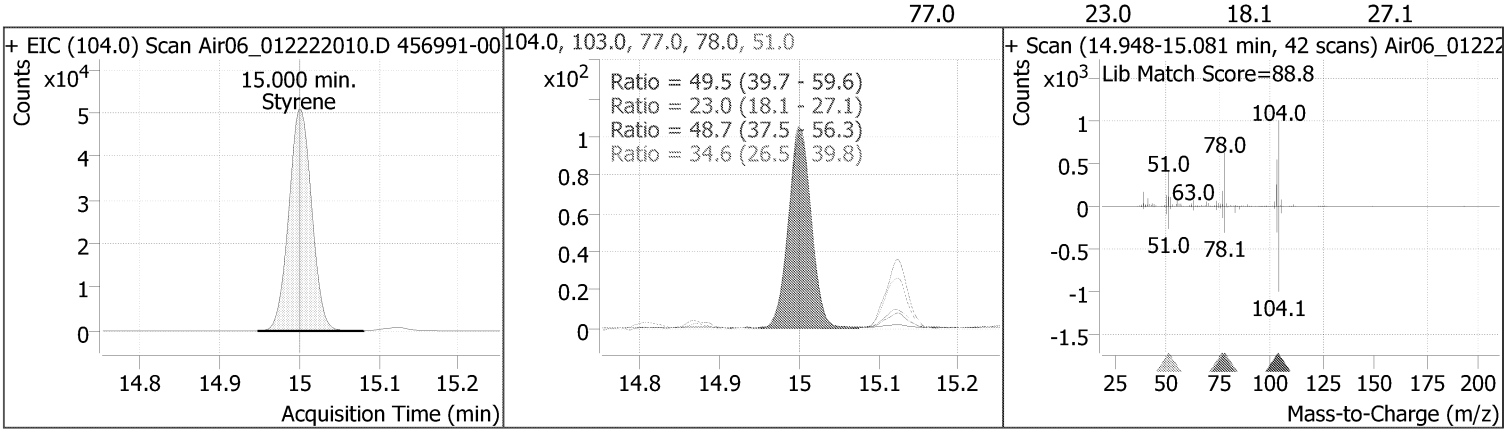

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.0005 | 14.70 | 0.00 | 59 | 171.0 | | 41.0 | 61.5 |
| | | | | | 175.0 | | 39.2 | 58.9 |
| | | | | | 93.0 | | 15.4 | 23.1 |
| | | | | | 91.0 | | 15.2 | 22.8 |
| | | | | | 79.0 | | 15.1 | 22.6 |



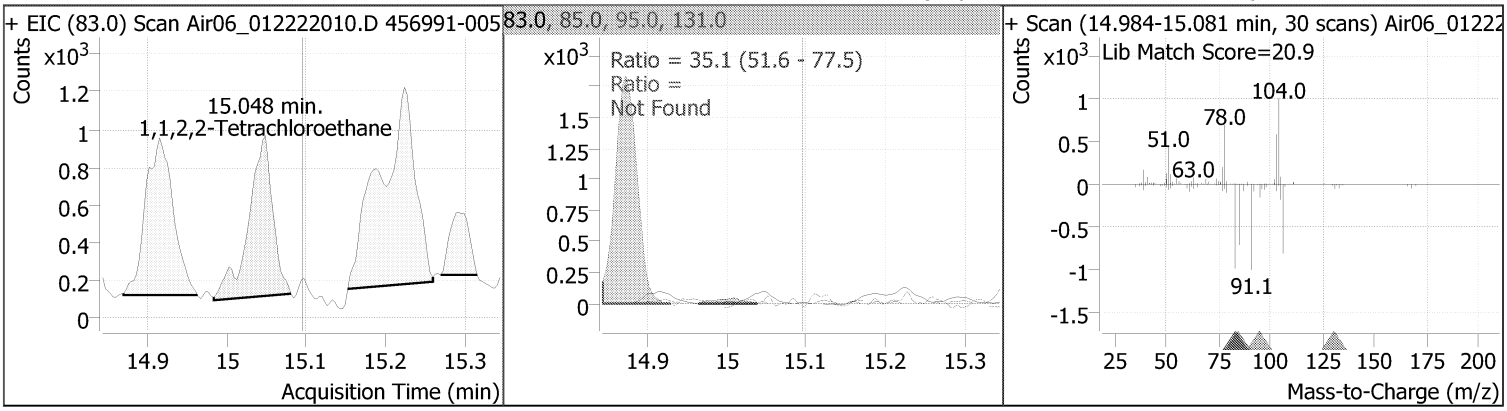



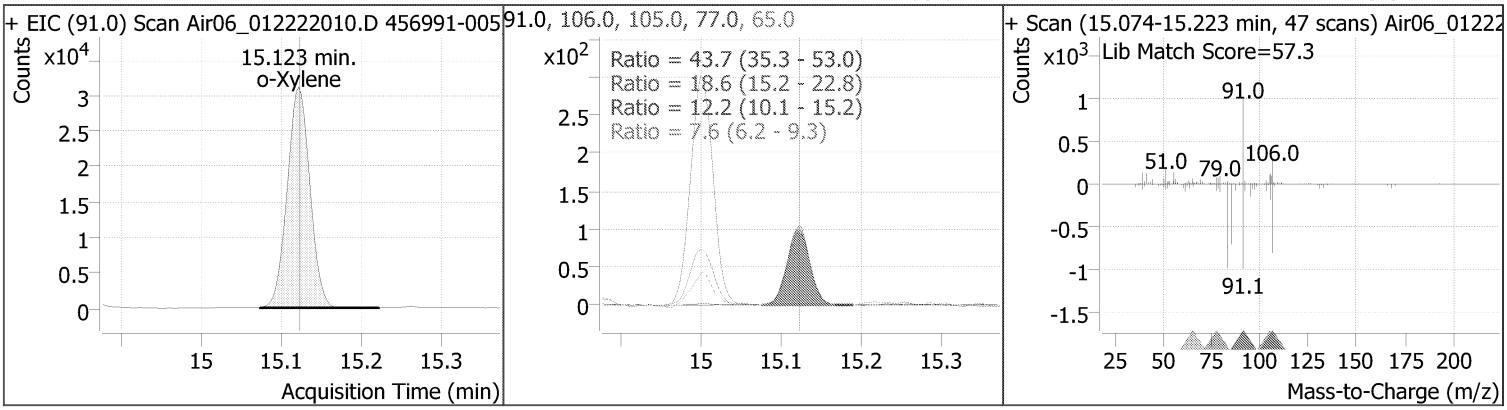
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.7625 | 15.00 | -0.01 | 102162 | 103.0 | 49.5 | 39.7 | 59.6 |
| | | | | | 78.0 | 48.7 | 37.5 | 56.3 |
| | | | | | 51.0 | 34.6 | 26.5 | 39.8 |
| | | | | | 77.0 | 23.0 | 18.1 | 27.1 |



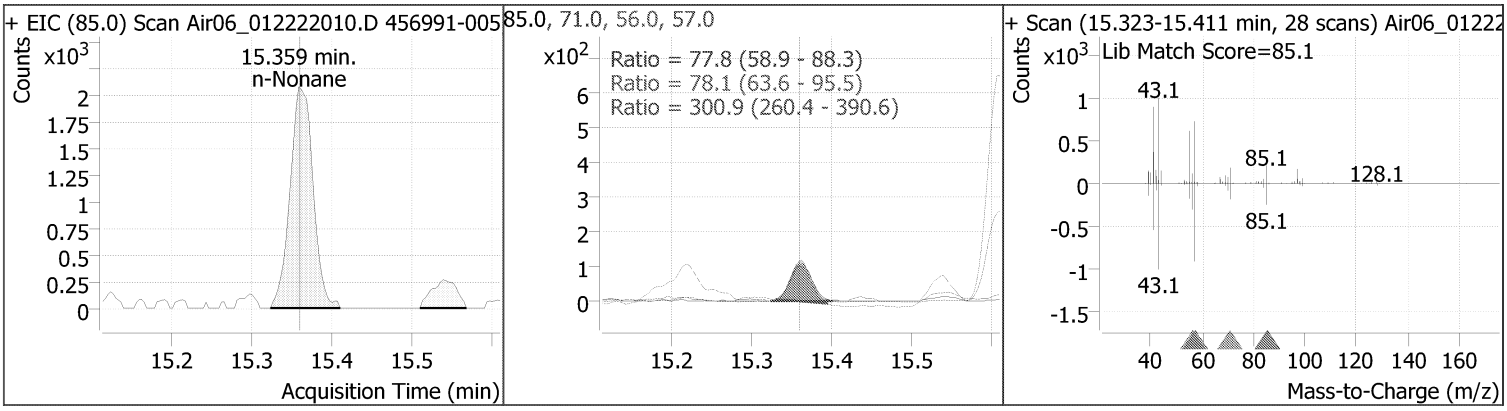

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.0141 | 15.05 | -0.05 | 1797 | 85.0 | 35.1 | 51.6 | 77.5 |
| | | | | | 95.0 | | 12.9 | 19.4 |
| | | | | | 131.0 | | 7.8 | 11.7 |



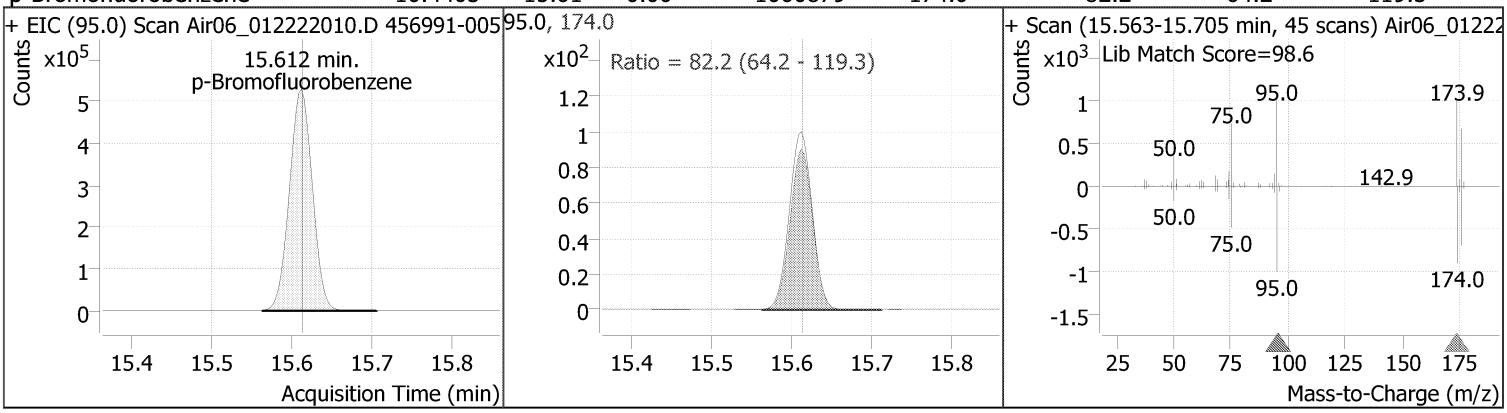

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.3555 | 15.12 | -0.01 | 61792 | 106.0 | 43.7 | 35.3 | 53.0 |
| | | | | | 105.0 | 18.6 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.2 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.6 | 6.2 | 9.3 |



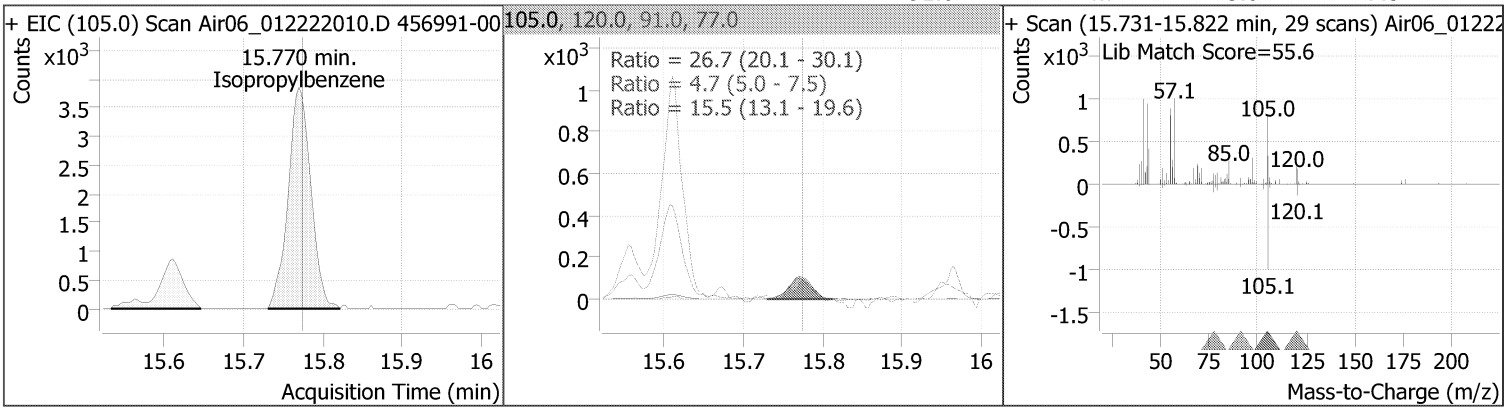
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.1044 | 15.36 | -0.01 | 4192 | 57.0 | 300.9 | 260.4 | 390.6 |
| | | | | | 56.0 | 78.1 | 63.6 | 95.5 |
| | | | | | 71.0 | 77.8 | 58.9 | 88.3 |



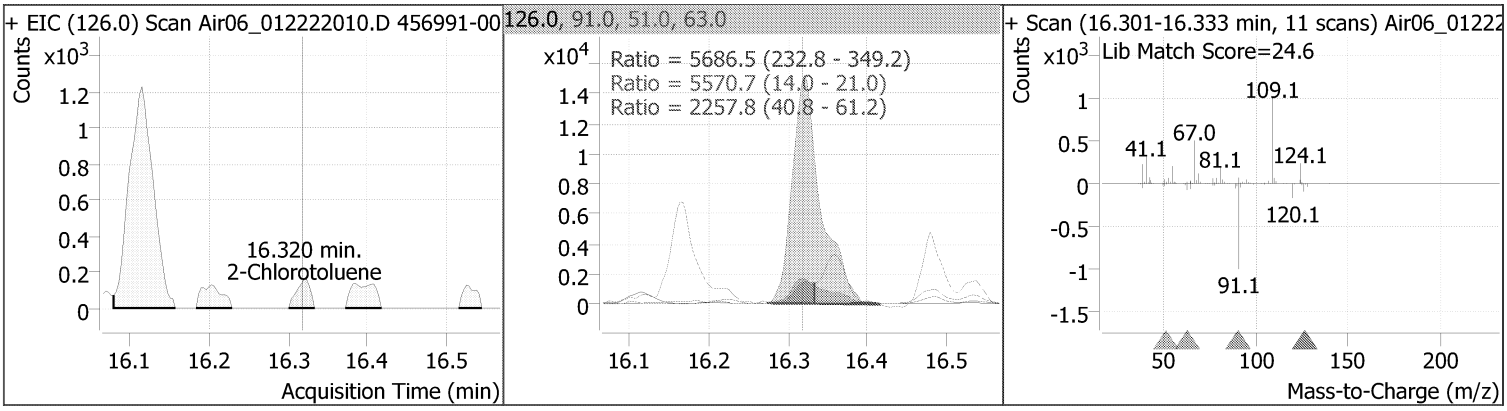

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.4403 | 15.61 | 0.00 | 1060879 | 174.0 | 82.2 | 64.2 | 119.3 |



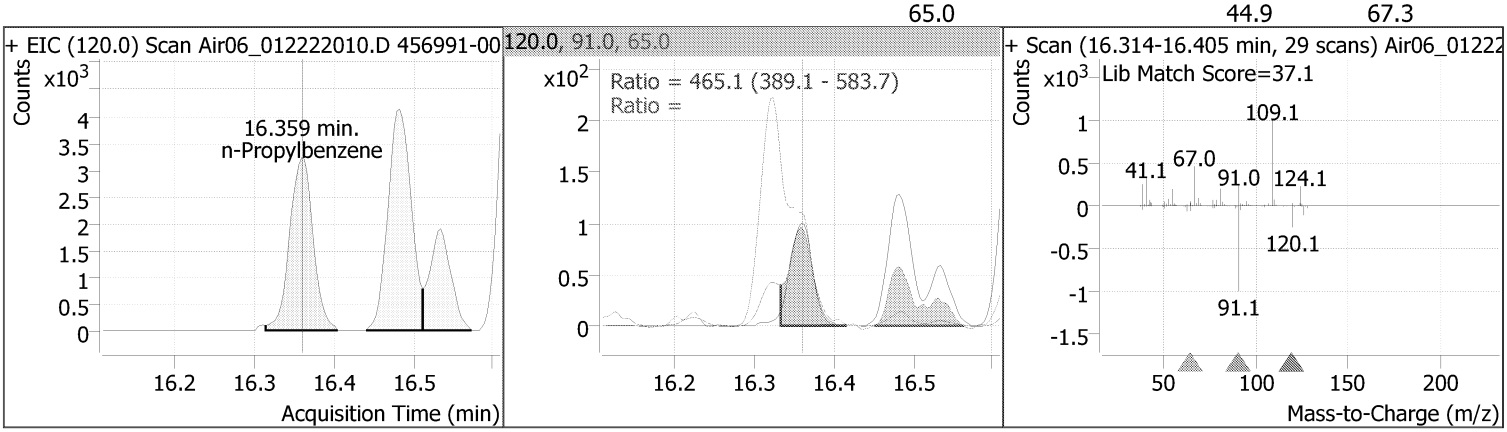

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0322 | 15.77 | -0.01 | 7665 | 120.0 | 26.7 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.5 | 13.1 | 19.6 |
| | | | | | 91.0 | 4.7 | 5.0 | 7.5 |



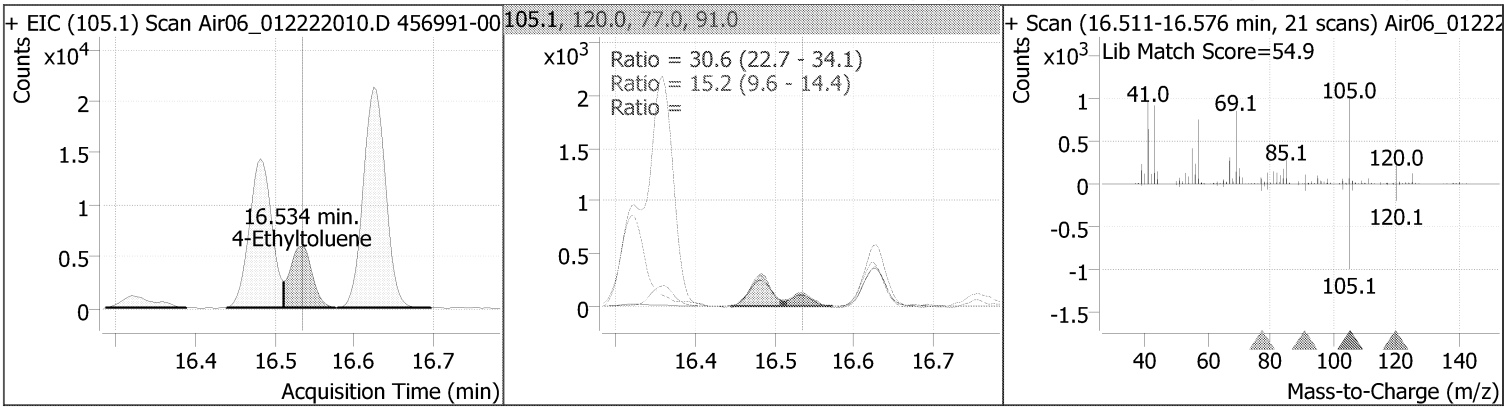
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.0031 | 16.32 | 0.00 | 191 | 91.0 | 5686.5 | 232.8 | 349.2 |
| | | | | | 63.0 | 2257.8 | 40.8 | 61.2 |
| | | | | | 51.0 | 5570.7 | 14.0 | 21.0 |



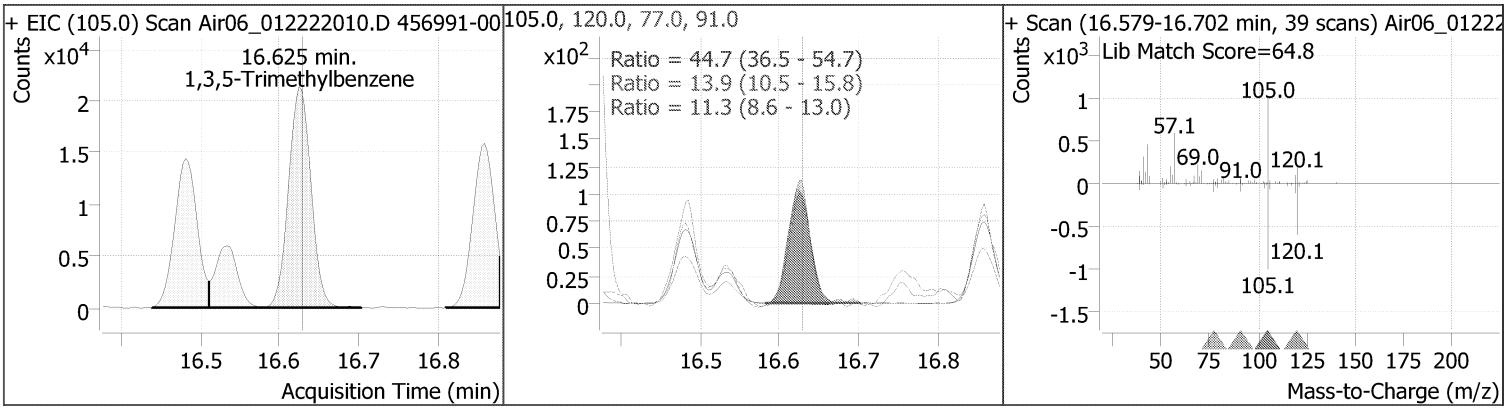

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0999 | 16.36 | 0.00 | 6654 | 91.0 | 465.1 | 389.1 | 583.7 |
| | | | | | 65.0 | | 44.9 | 67.3 |



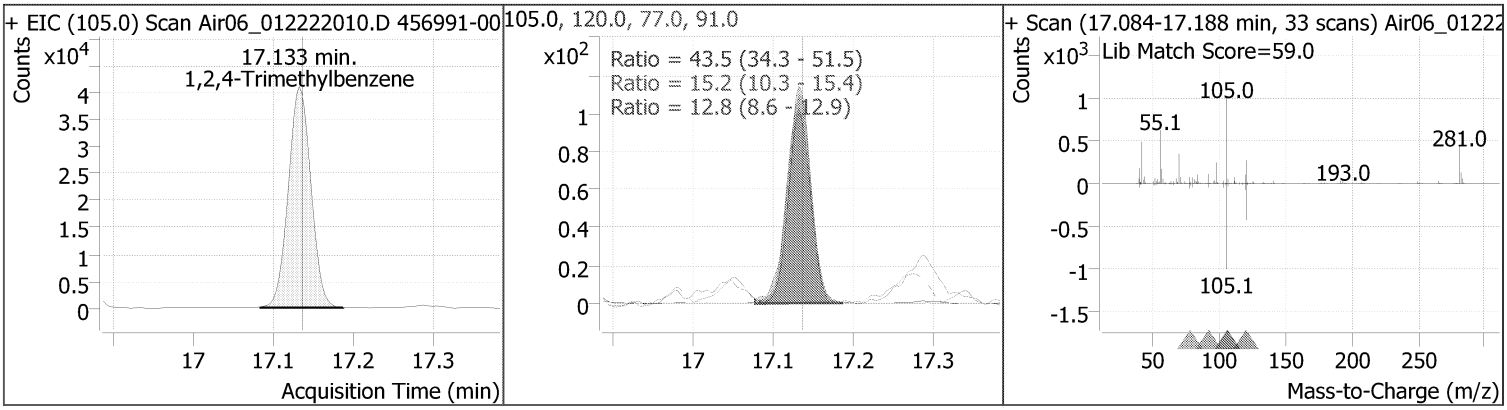

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0491 | 16.53 | 0.00 | 11586 | 120.0 | 30.6 | 22.7 | 34.1 |
| | | | | | 77.0 | 15.2 | 9.6 | 14.4 |
| | | | | | 91.0 | | 9.3 | 14.0 |



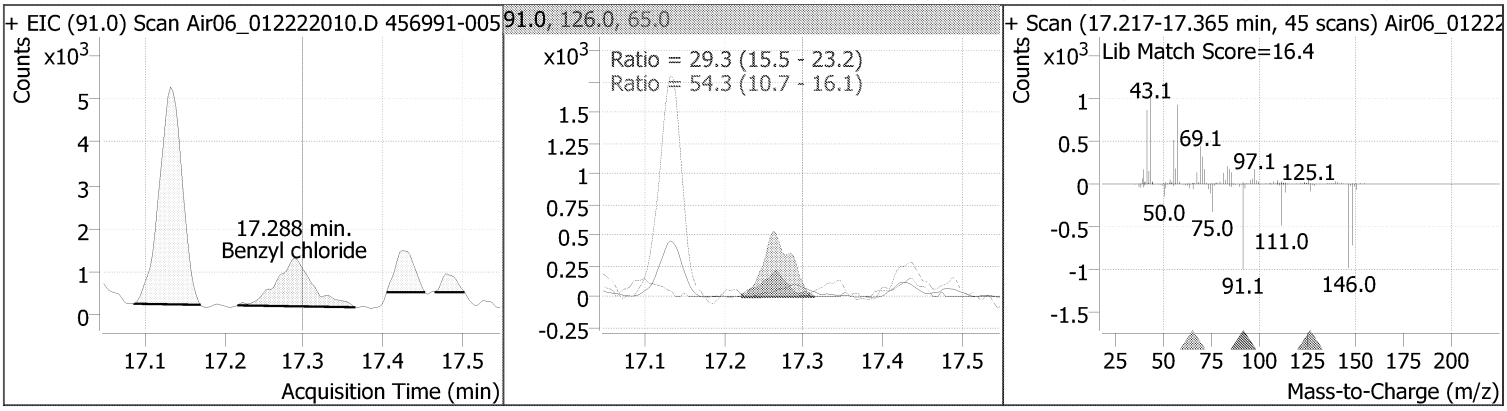
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.2048 | 16.62 | -0.01 | 41800 | 120.0 | 44.7 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.9 | 10.5 | 15.8 |
| | | | | | 91.0 | 11.3 | 8.6 | 13.0 |



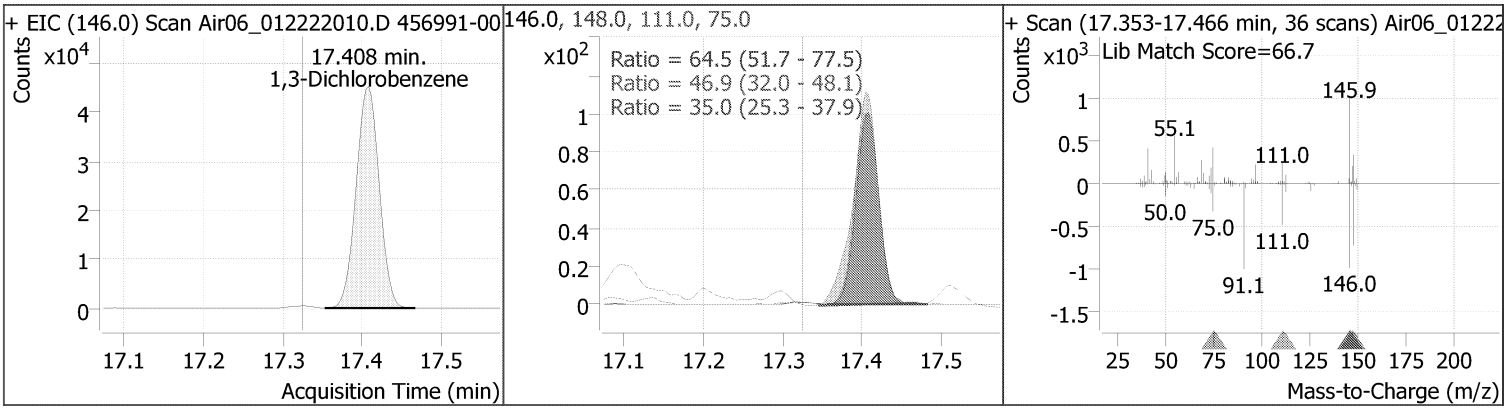

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.4005 | 17.13 | -0.01 | 81197 | 120.0 | 43.5 | 34.3 | 51.5 |
| | | | | | 77.0 | 15.2 | 10.3 | 15.4 |
| | | | | | 91.0 | 12.8 | 8.6 | 12.9 |



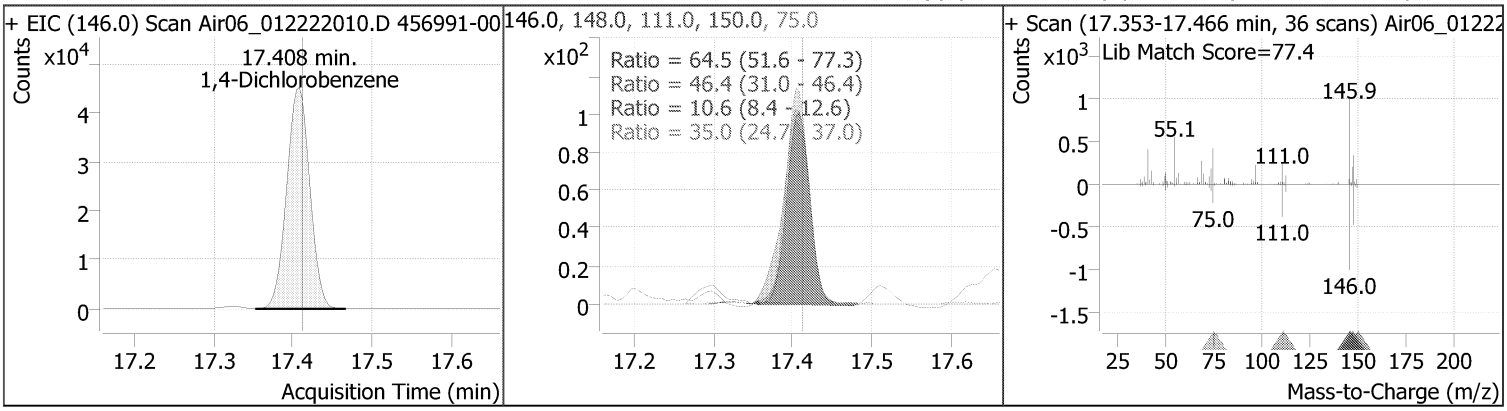

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0197 | 17.29 | -0.01 | 3506 | 126.0 | 29.3 | 15.5 | 23.2 |
| | | | | | 65.0 | 54.3 | 10.7 | 16.1 |



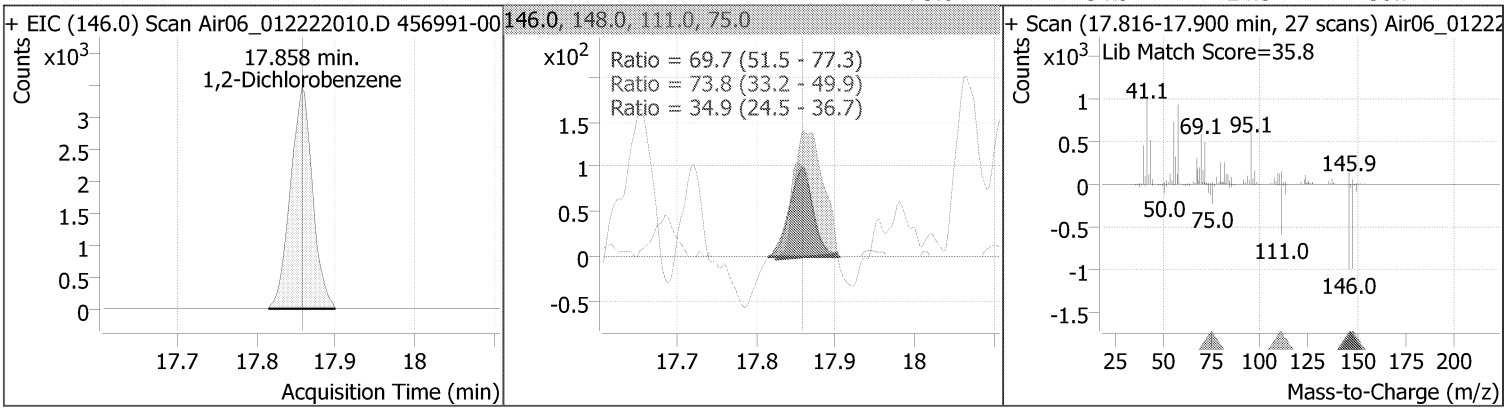
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.6570 | 17.41 | 0.08 | 91370 | 148.0 | 64.5 | 51.7 | 77.5 |
| | | | | | 111.0 | 46.9 | 32.0 | 48.1 |
| | | | | | 75.0 | 35.0 | 25.3 | 37.9 |



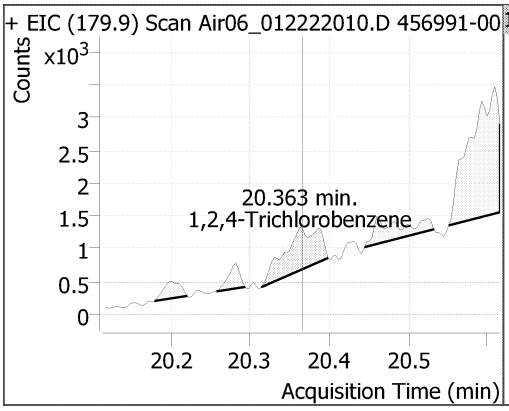

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.6497 | 17.41 | -0.01 | 91370 | 148.0 | 64.5 | 51.6 | 77.3 |
| | | | | | 111.0 | 46.4 | 31.0 | 46.4 |
| | | | | | 75.0 | 35.0 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.6 | 8.4 | 12.6 |

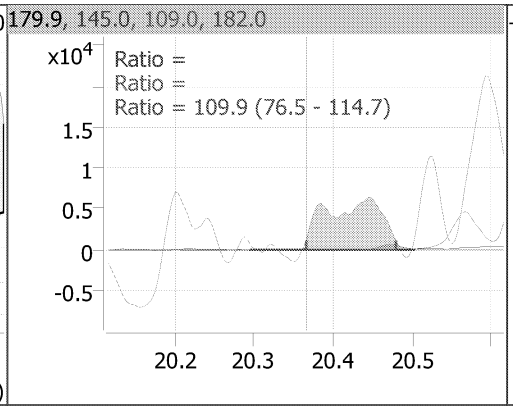


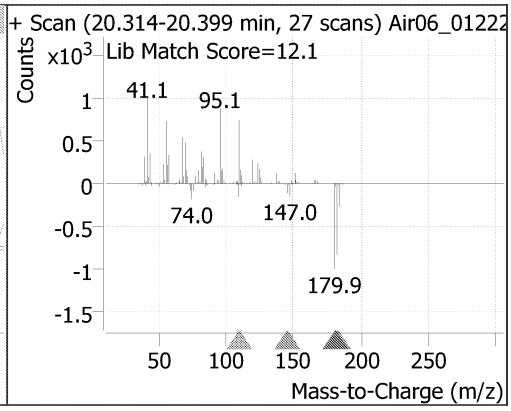

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.0494 | 17.86 | 0.00 | 6700 | 148.0 | 69.7 | 51.5 | 77.3 |
| | | | | | 111.0 | 73.8 | 33.2 | 49.9 |
| | | | | | 75.0 | 34.9 | 24.5 | 36.7 |



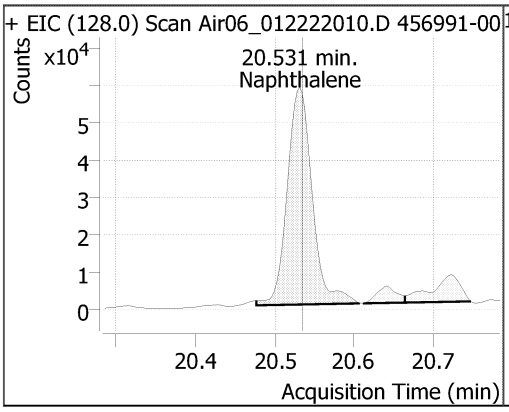
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0171 | 20.36 | -0.01 | 1909 | 182.0 | 109.9 | 76.5 | 114.7 |
| | | | | | 145.0 | | 22.2 | 33.3 |
| | | | | | 109.0 | | 18.1 | 27.2 |

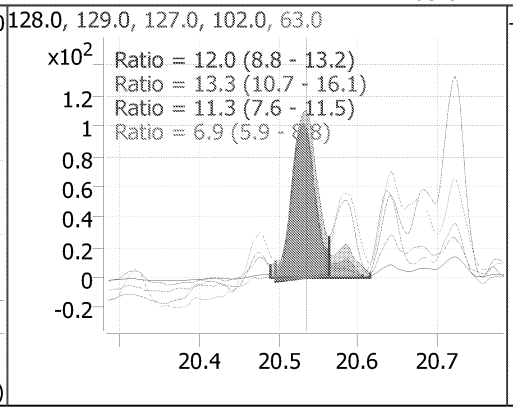


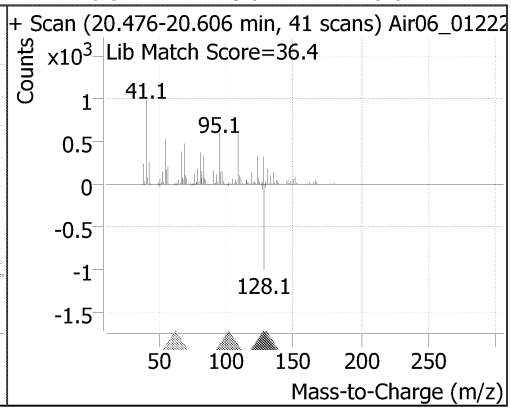



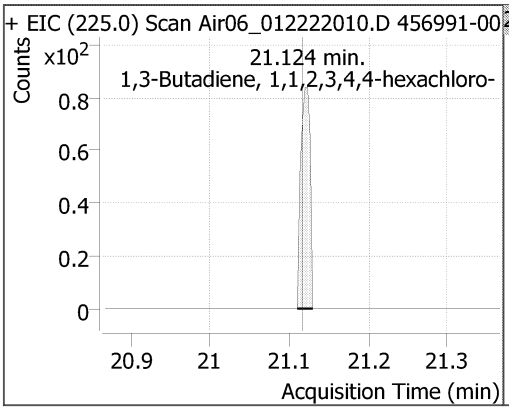

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.5522 | 20.53 | -0.01 | 127746 | 127.0 | 13.3 | 10.7 | 16.1 |
| | | | | | 129.0 | 12.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 11.3 | 7.6 | 11.5 |
| | | | | | 63.0 | 6.9 | 5.9 | 8.8 |

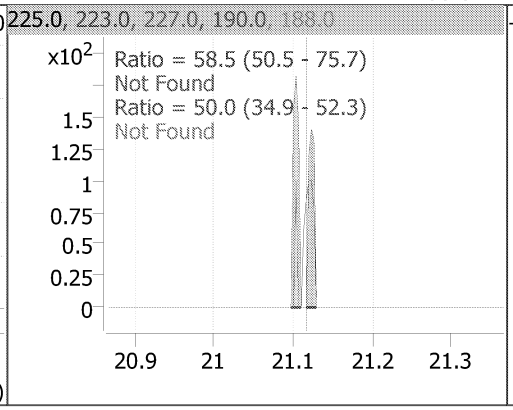


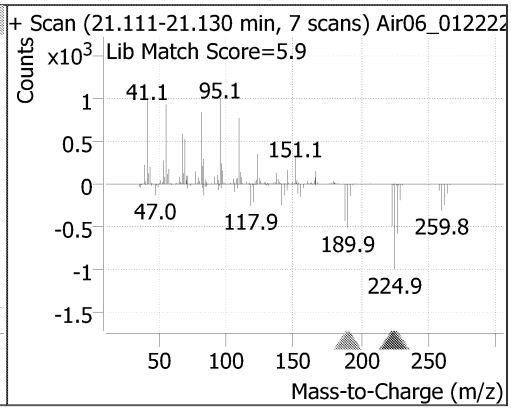




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0006 | 21.12 | 0.00 | 69 | 227.0 | | 51.2 | 76.7 |
| | | | | | 223.0 | 58.5 | 50.5 | 75.7 |
| | | | | | 190.0 | 50.0 | 34.9 | 52.3 |
| | | | | | 188.0 | | 27.5 | 41.2 |



# Library Search Results - NonTarget Hits with Details

Agilent Technologies

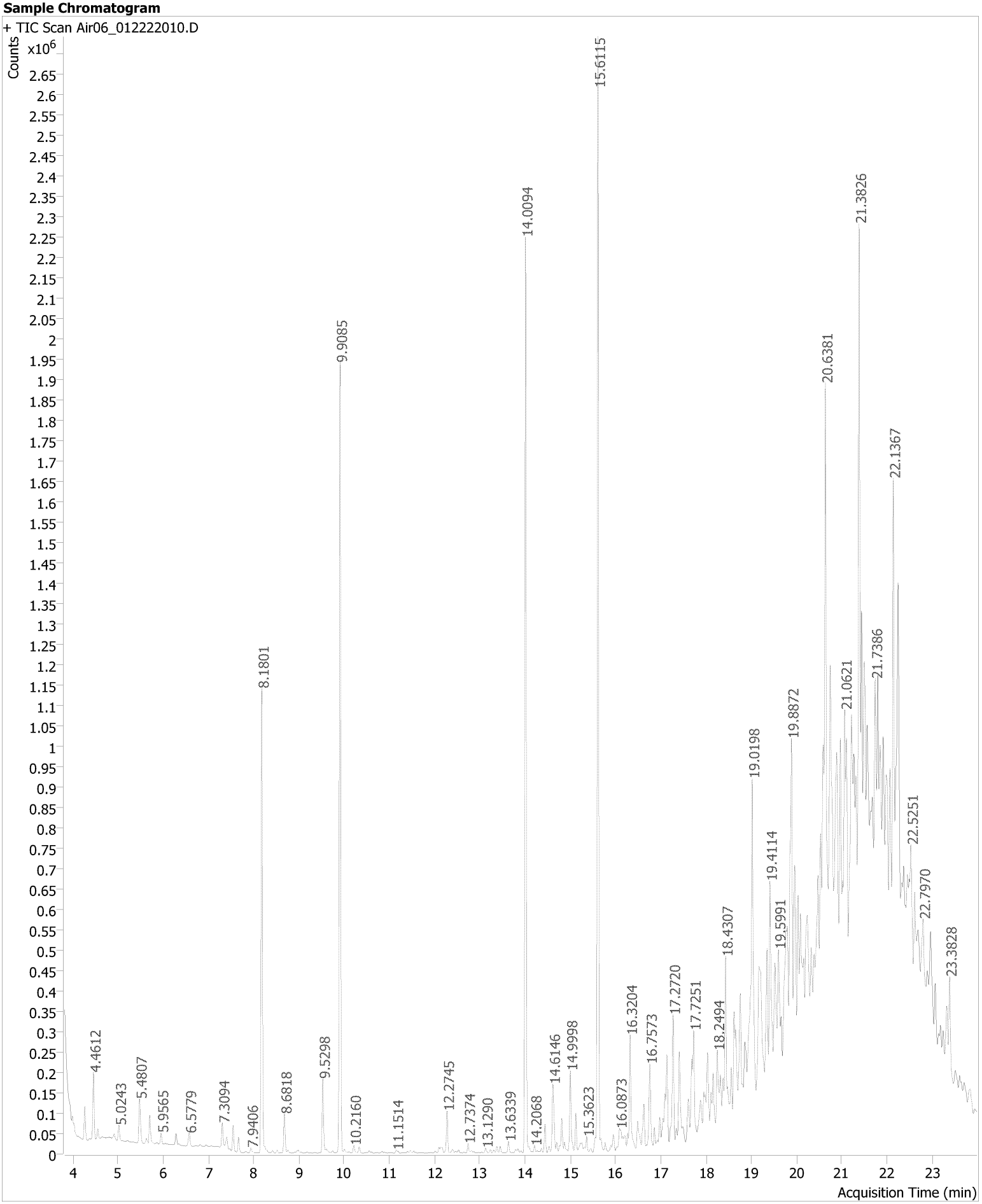
| | | | |
|---|---|---|---|
| **Batch Path** | D:\MassHunter\GCMS\1\data\2022\220122 | | |
| **Analysis File Name** | $2022 Jan 22 2126 TO15_220105.m$.uaf | | |
| **Analyst Name** | 003AIRMS06 | **Analysis Time** | 1/26/2022 1:15:22 PM |
| **File Name** | Air06_012222010.D | **Path Name** | D:\MassHunter\GCMS\1\data\2022\220122 |
| **Sample Name** | 456991-005,282327,2x,PDF:1,C10759 | **Type** | Sample |
| **Acq. Method File** | TO15_Acq_013120_1 | **Acq. Method Path** | D:\MassHunter\GCMS\1\methods\ |
| **Acq. Date-Time** | 1/22/2022 6:33:59 PM | **Acq. Operator** | DJL/LJB/ZNZ |
| **Instrument Name** | Air-MS-06 | **Dil.** | 1 |

| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9951 | Dichlorodifluoromethane | 75-71-8 | CCl2F2 | 138365.6 | 96.7 | 0.5586 |
| 4.2702 | Cyclobutanol | 2919-23-5 | C4H8O | 158229.5 | 89.0 | 0.6388 |
| 4.4612 | 1-Propene, 2-methyl- | 115-11-7 | C4H8 | 327755.7 | 99.5 | 1.323 |
| 4.5583 | Butane | 106-97-8 | C4H10 | 43966.5 | 96.6 | 0.1775 |
| 4.9143 | Ethyl Chloride | 75-00-3 | C2H5Cl | 21233.8 | 90.3 | 0.08572 |
| 5.0243 | Dimethyl ether | 115-10-6 | C2H6O | 75670.8 | 86.8 | 0.3055 |
| 5.4807 | Acetone | 67-64-1 | C3H6O | 266650.6 | 98.1 | 1.076 |
| 5.6296 | Trichloromonofluoromethane | 75-69-4 | CCl3F | 23325.4 | 96.4 | 0.09416 |
| 5.7040 | Isopropyl Alcohol | 67-63-0 | C3H8O | 155983.1 | 94.8 | 0.6297 |
| 5.9565 | Pentane | 109-66-0 | C5H12 | 57937.3 | 97.2 | 0.2339 |
| 6.5779 | Carbon disulfide | 75-15-0 | CS2 | 75923.1 | 97.2 | 0.3065 |
| 7.3094 | Silanol, trimethyl- | 1066-40-6 | C3H10OSi | 141270.9 | 98.3 | 0.5703 |
| 7.4065 | Isobutyl acetate | 110-19-0 | C6H12O2 | 69397.5 | 76.7 | 0.2802 |
| 7.5457 | Butanal | 123-72-8 | C4H8O | 123119.2 | 98.7 | 0.497 |
| 7.6655 | 2-Butanone | 78-93-3 | C4H8O | 72517.6 | 97.7 | 0.2927 |
| 7.9406 | 1-Pentene, 2-methyl- | 763-29-1 | C6H12 | 26551.4 | 95.2 | 0.1072 |
| 8.1801 | Methane, bromochloro- | 74-97-5 | CH2BrCl | 2477119.3 | 98.7 | 10 |
| 8.4164 | Cyclopropane, 1,1,2-trimethyl- | 4127-45-1 | C6H12 | 10310.4 | 90.8 | 0.04162 |
| 8.5200 | 2-Pentene, 3-methyl-, (E)- | 616-12-6 | C6H12 | 11234.0 | 86.8 | 0.04535 |
| 8.6818 | Tetrahydrofuran | 109-99-9 | C4H8O | 212053.8 | 99.2 | 0.8561 |
| 8.7595 | 2-Pentene, 3-methyl-, (Z)- | 922-62-3 | C6H12 | 14773.3 | 86.8 | 0.05964 |
| 8.9893 | Cyclopentane, methyl- | 96-37-7 | C6H12 | 20961.7 | 92.1 | 0.08462 |
| 9.5298 | 1-Butanol | 71-36-3 | C4H10O | 394975.2 | 98.9 | 0.9898 |
| 9.6107 | Benzene | 71-43-2 | C6H6 | 29909.8 | 93.3 | 0.07496 |
| 9.9085 | Benzene, 1,4-difluoro- | 540-36-3 | C6H4F2 | 3990265.5 | 99.4 | 10 |
| 10.0056 | 2-Pentanone | 107-87-9 | C5H10O | 24101.6 | 87.0 | 0.0604 |
| 10.2160 | Pentanal | 110-62-3 | C5H10O | 43381.7 | 96.3 | 0.1087 |
| 10.3357 | Benzene, 1,3-difluoro- | 372-18-9 | C6H4F2 | 33283.1 | 96.1 | 0.08341 |
| 11.1514 | 1-Pentene, 2,4,4-trimethyl- | 107-39-1 | C8H16 | 16260.1 | 89.1 | 0.04075 |
| 11.4653 | Cyclohexane, methyl- | 108-87-2 | C7H14 | 12100.5 | 89.9 | 0.03032 |
| 12.0965 | 1-Pentanol | 71-41-0 | C5H12O | 24511.7 | 94.3 | 0.05303 |
| 12.1386 | Cyclobutane, (1-methylethylidene)- | 1528-22-9 | C7H12 | 52241.2 | 86.6 | 0.113 |
| 12.2745 | Toluene | 108-88-3 | C7H8 | 214574.9 | 99.2 | 0.4643 |
| 12.3943 | Cyclopentanone | 120-92-3 | C5H8O | 22019.0 | 84.0 | 0.04764 |
| 12.7374 | Hexanal | 66-25-1 | C6H12O | 44299.2 | 97.0 | 0.09585 |
| 12.8215 | Cyclohexane, 1,3-dimethyl- | 591-21-9 | C8H16 | 18601.4 | 83.6 | 0.04025 |
| 13.1290 | Acetic acid, butyl ester | 123-86-4 | C6H12O2 | 27397.9 | 76.7 | 0.05928 |
| 13.2326 | Octane | 111-65-9 | C8H18 | 16324.9 | 93.2 | 0.03532 |
| 13.3070 | Cyclohexane, 1,2-dimethyl- (cis/trans) | 583-57-3 | C8H16 | 14951.1 | 88.0 | 0.03235 |
| 13.3782 | Tetrachloroethylene | 127-18-4 | C2Cl4 | 33961.6 | 94.0 | 0.07348 |
| 13.4494 | Cyclopentene, 1,2,3-trimethyl- | 473-91-6 | C8H14 | 32641.2 | 93.7 | 0.07062 |
| 13.6339 | Cyclotrisiloxane, hexamethyl- | 541-05-9 | C6H18O3Si3 | 61289.8 | 96.7 | 0.1326 |
| 13.7893 | 1,3-Dimethyl-1-cyclohexene | 2808-76-6 | C8H14 | 15347.5 | 87.8 | 0.03321 |
| 14.0094 | Chlorobenzene-d5 | 3114-55-4 | C6D5Cl | 4621804.7 | 95.8 | 10 |
| 14.0871 | Oxalic acid, cyclohexyl pentyl ester | 1000309-30-6 | C13H22O4 | 28728.1 | 81.6 | 0.06216 |
| 14.2068 | Cyclohexane, 1,1,3-trimethyl- | 3073-66-3 | C9H18 | 27716.8 | 88.9 | 0.05997 |
| 14.3622 | 1,2,4,4-Tetramethylcyclopentene | 65378-76-9 | C9H16 | 13391.1 | 92.3 | 0.02897 |
| 14.4399 | Ethylbenzene | 100-41-4 | C8H10 | 131467.5 | 97.9 | 0.2845 |
| 14.5305 | Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.beta.)- | 7667-60-9 | C9H18 | 26130.9 | 90.4 | 0.05654 |
| 14.6146 | Benzene, 1,3-dimethyl- | 108-38-3 | C8H10 | 460573.6 | 99.5 | 0.9965 |
| 14.6988 | 3-Heptanone | 106-35-4 | C7H14O | 41830.6 | 86.0 | 0.09051 |
| 14.7635 | 2-Heptanone | 110-43-0 | C7H14O | 24167.6 | 86.9 | 0.05229 |
| 14.8121 | Cyclohexanone | 108-94-1 | C6H10O | 177883.0 | 89.9 | 0.3849 |
| 14.8703 | Cyclohexene, 1,2-dimethyl- | 1674-10-8 | C8H14 | 47323.2 | 87.9 | 0.1024 |
| 14.9998 | Bicyclo[4.2.0]octa-1,3,5-triene | 694-87-1 | C8H8 | 461177.9 | 98.4 | 0.9978 |
| 15.1228 | o-Xylene | 95-47-6 | C8H10 | 186269.8 | 98.4 | 0.403 |
| 15.2199 | Cyclohexane, 1-ethyl-2-propyl- | 62238-33-9 | C11H22 | 59358.6 | 90.1 | 0.1284 |
| 15.2555 | Cyclohexane, 1-bromo-4-methyl- | 6294-40-2 | C7H13Br | 45360.6 | 75.7 | 0.09814 |
| 15.3170 | Cyclohexane, 1-ethyl-4-methyl-, cis- | 4926-78-7 | C9H18 | 24742.6 | 85.1 | 0.05353 |

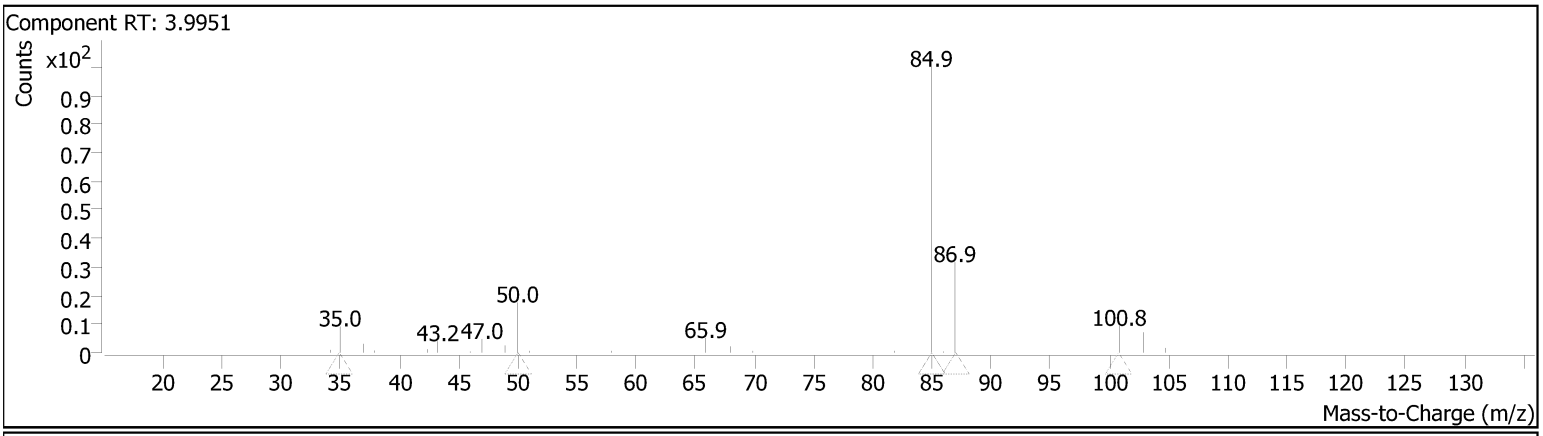
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3623 | Nonane | 111-84-2 | C9H20 | 69325.5 | 95.7 | 0.15 |
| 15.4562 | Cycloheptene, 1,2-dimethyl- | 20053-89-8 | C9H16 | 14639.7 | 88.0 | 0.03168 |
| 15.5533 | Cyclohexene, 3,3,5-trimethyl- | 503-45-7 | C9H16 | 68498.2 | 90.2 | 0.1482 |
| 15.6115 | Benzene, 1-bromo-3-fluoro- | 1073-06-9 | C6H4BrF | 5466299.9 | 98.1 | 11.83 |
| 15.6795 | 2-Hexene, 3,4,4-trimethyl- | 53941-19-8 | C9H18 | 55022.8 | 76.4 | 0.1191 |
| 15.7669 | Benzene, (1-methylethyl)- | 98-82-8 | C9H12 | 25675.3 | 75.4 | 0.05555 |
| 15.8964 | Pentane, 2,2,3,3-tetramethyl- | 7154-79-2 | C9H20 | 13570.0 | 88.4 | 0.02936 |
| 15.9514 | Cyclohexane, 1-propenyl- | 5364-83-0 | C9H16 | 80463.8 | 92.3 | 0.1741 |
| 16.0226 | 3-Heptyne, 2,2-dimethyl- | 29022-29-5 | C9H16 | 8601.8 | 78.6 | 0.01861 |
| 16.0873 | Nonane, 3-methyl- | 5911-04-6 | C10H22 | 192427.6 | 92.6 | 0.4163 |
| 16.1585 | Benzaldehyde | 100-52-7 | C7H6O | 58271.4 | 78.3 | 0.1261 |
| 16.2006 | Cyclohexane, 1,1,2,3-tetramethyl- | 6783-92-2 | C10H20 | 94697.4 | 82.1 | 0.2049 |
| 16.2686 | Heptane, 3-ethyl-2-methyl- | 14676-29-0 | C10H22 | 64350.1 | 94.1 | 0.1392 |
| 16.3204 | 2,4-Heptadiene, 2,4-dimethyl- | 74421-05-9 | C9H16 | 675603.8 | 95.4 | 1.462 |
| 16.4887 | Benzene, 1-ethyl-2-methyl- | 611-14-3 | C9H12 | 194667.4 | 79.2 | 0.4212 |
| 16.6279 | Benzene, 1,2,3-trimethyl- | 526-73-8 | C9H12 | 274962.4 | 85.1 | 0.5949 |
| 16.7573 | Cyclohexane, 1,1,2,3-tetramethyl- | 6783-92-2 | C10H20 | 506077.7 | 95.9 | 1.095 |
| 16.8577 | Benzene, 1-ethyl-2-methyl- | 611-14-3 | C9H12 | 50431.2 | 86.9 | 0.1091 |
| 16.9159 | Cyclohexene, 3-(2-methylpropyl)- | 4104-56-7 | C10H18 | 7548.7 | 74.9 | 0.01633 |
| 16.9774 | Cyclododecanemethanol | 1892-12-2 | C13H26O | 75961.4 | 85.7 | 0.1644 |
| 17.0486 | m-Menthane, (1S,3R)-(+)- | 13837-66-6 | C10H20 | 31968.4 | 78.7 | 0.06917 |
| 17.0907 | Cyclotetrasiloxane, octamethyl- | 556-67-2 | C8H24O4Si4 | 143480.6 | 93.2 | 0.3104 |
| 17.1328 | Benzene, 1,2,3-trimethyl- | 526-73-8 | C9H12 | 359937.0 | 84.1 | 0.7788 |
| 17.2720 | 1-Octanol, 2-butyl- | 3913-02-8 | C12H26O | 552229.5 | 89.4 | 1.195 |
| 17.3432 | 3-Tridecene | 60186-78-9 | C13H24 | 25689.2 | 85.2 | 0.05558 |
| 17.4079 | Benzene, 1,3-dichloro- | 541-73-1 | C6H4Cl2 | 405085.6 | 95.8 | 0.8765 |
| 17.6086 | trans-p-mentha-1(7),8-dien-2-ol | 21391-84-4 | C10H16O | 128339.6 | 75.9 | 0.2777 |
| 17.6830 | Mesitylene | 108-67-8 | C9H12 | 342700.2 | 83.5 | 0.7415 |
| 17.7251 | Nonane, 2,6-dimethyl- | 17302-28-2 | C11H24 | 481306.4 | 94.9 | 1.041 |
| 17.8772 | cis-Dihydrocarvone | 3792-53-8 | C10H16O | 175178.9 | 83.8 | 0.379 |
| 17.9517 | Decyl isobutyl carbonate | 959226-07-4 | C15H30O3 | 152411.9 | 80.5 | 0.3298 |
| 17.9776 | Cyclopropane, 2-(1,1-dimethyl-2-pentenyl)-1,1-dimethyl- | 74663-76-6 | C12H22 | 118999.5 | 71.6 | 0.2575 |
| 18.0326 | Cyclohexane, butyl- | 1678-93-9 | C10H20 | 470546.7 | 79.4 | 1.018 |
| 18.1070 | trans-p-mentha-1(7),8-dien-2-ol | 21391-84-4 | C10H16O | 158398.5 | 77.3 | 0.3427 |
| 18.1556 | Benzene, 1-methyl-2-propyl- | 1074-17-5 | C10H14 | 287484.7 | 83.2 | 0.622 |
| 18.2494 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 476803.7 | 90.4 | 1.032 |
| 18.3174 | Decane, 5-methyl- | 13151-35-4 | C11H24 | 308954.7 | 75.7 | 0.6685 |
| 18.3757 | Decane, 4-methyl- | 2847-72-5 | C11H24 | 249974.9 | 90.2 | 0.5409 |
| 18.4307 | Cyclohexane, 1,1-dimethyl-2-propyl- | 81983-71-3 | C11H22 | 906936.9 | 95.4 | 1.962 |
| 18.4728 | Benzene, 1-methyl-4-propyl- | 1074-55-1 | C10H14 | 207335.2 | 93.5 | 0.4486 |
| 18.5569 | Decane, 3-methyl- | 13151-34-3 | C11H24 | 345800.5 | 90.0 | 0.7482 |
| 18.6184 | Cyclohexane, 1-methyl-3-(1-methylethenyl)-, cis- | 24399-15-3 | C10H18 | 566807.9 | 78.7 | 1.226 |
| 18.6540 | Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | C10H14 | 640340.7 | 85.0 | 1.385 |
| 18.7576 | p-Cymene | 99-87-6 | C10H14 | 1178162.2 | 76.8 | 2.549 |
| 19.0198 | Undecane | 1120-21-4 | C11H24 | 3791840.9 | 94.4 | 8.204 |
| 19.1719 | cis-p-mentha-1(7),8-dien-2-ol | 1000374-16-8 | C10H16O | 2654208.1 | 81.7 | 5.743 |
| 19.3467 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 1379135.5 | 91.5 | 2.984 |
| 19.4114 | Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | C10H14 | 2068132.6 | 81.3 | 4.475 |
| 19.5215 | Adamantane, 1-thiocyanatomethyl- | 1000304-65-8 | C12H17NS | 1485166.5 | 72.5 | 3.213 |
| 19.5991 | Naphthalene, decahydro-2-methyl- | 2958-76-1 | C11H20 | 1434908.0 | 88.0 | 3.105 |
| 19.7966 | 1,12-Tridecadiene | 21964-48-7 | C13H24 | 2997838.6 | 79.2 | 6.486 |
| 19.8872 | Naphthalene, decahydro-2-methyl- | 2958-76-1 | C11H20 | 3567840.6 | 96.6 | 7.72 |
| 19.9584 | Nitrosodurene | 1000430-49-9 | C10H13NO | 2264702.9 | 78.3 | 4.9 |
| 20.0329 | Naphthalene, 1,2,3,4-tetrahydro-1,8-dimethyl- | 25419-33-4 | C12H16 | 1497561.8 | 81.6 | 3.24 |
| 20.0879 | Oxirane, dodecyl- | 3234-28-4 | C14H28O | 1869387.4 | 76.6 | 4.045 |
| 20.1591 | Benzene, (1,2-dimethylpropyl)- | 4481-30-5 | C11H16 | 990012.5 | 78.4 | 2.142 |
| 20.2335 | Naphthalene, decahydro-2,2-dimethyl- | 31124-85-3 | C12H22 | 2743021.0 | 75.3 | 5.935 |
| 20.3242 | p-Toluic acid, 5-tridecyl ester | 1000299-80-5 | C21H34O2 | 1411325.5 | 71.1 | 3.054 |
| 20.3889 | 2(1H)-Naphthalenone, octahydro-4a,5-dimethyl-, (4a.alpha.,5.alpha.,8a.beta.)- | 51557-64-3 | C12H20O | 1149228.0 | 70.9 | 2.487 |
| 20.4730 | 1,7,7-Trimethyl-2-vinylbicyclo[2.2.1]hept-2-ene | 130930-56-2 | C12H18 | 2601041.4 | 77.0 | 5.628 |
| 20.5313 | Oxalic acid, 4-chlorophenyl octadecyl ester | 1000309-61-9 | C26H41ClO4 | 1939869.5 | 70.1 | 4.197 |
| 20.5863 | 2H-Inden-2-one, 1,4,5,6,7,7a-hexahydro-7a-methyl-, (S)- | 54725-16-5 | C10H14O | 2308129.2 | 77.9 | 4.994 |
| 20.6381 | Dodecane | 112-40-3 | C12H26 | 5976008.8 | 74.2 | 12.93 |
| 20.7449 | Naphthalene, decahydro-2,6-dimethyl- | 1618-22-0 | C12H22 | 5687037.5 | 93.9 | 12.3 |
| 20.8873 | Undecane, 2,6-dimethyl- | 17301-23-4 | C13H28 | 4938347.5 | 82.0 | 10.68 |
| 20.9683 | 1H-Indene, 2,3-dihydro-1,1,5-trimethyl- | 40650-41-7 | C12H16 | 2999267.5 | 86.0 | 6.489 |
| 21.0168 | 1-Cyclohexanol, 2-(2-ethylbutyl)- | 7146-78-3 | C12H24O | 884892.2 | 70.1 | 1.915 |

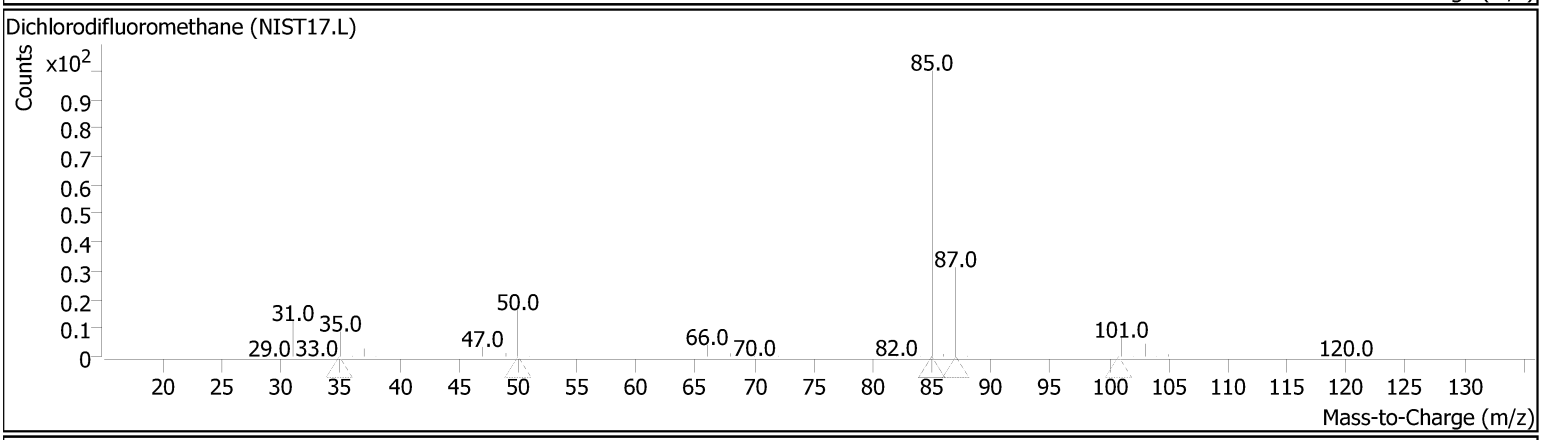
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.0621 | Benzene, (1,3-dimethyl-2-butenyl)- | 50704-01-3 | C12H16 | 2711337.9 | 73.2 | 5.866 |
| 21.1042 | Naphthalene, decahydro-1,1-dimethyl- | 35431-04-0 | C12H22 | 2480032.4 | 79.2 | 5.366 |
| 21.2142 | 1(2H)-Naphthalenone, octahydro-4a-methyl-, trans- | 937-99-5 | C11H18O | 4577365.0 | 84.5 | 9.904 |
| 21.3113 | 2-(3-Methylbuta-1,3-dienyl)cyclohexanone | 1000191-75-5 | C11H16O | 2190464.6 | 74.9 | 4.739 |
| 21.3826 | Cyclohexane, 2-butyl-1,1,3-trimethyl- | 54676-39-0 | C13H26 | 6108017.1 | 84.9 | 13.22 |
| 21.4991 | 2-Propenal, 3-(2,6,6-trimethyl-1-cyclohexen-1-yl)- | 4951-40-0 | C12H18O | 4128288.2 | 71.7 | 8.932 |
| 21.7386 | 9-Undecenol, 2,10-dimethyl- | 1000131-86-0 | C13H26O | 3464439.3 | 72.1 | 7.496 |
| 21.8486 | Cyclohexane, 1,1-dimethyl-2,4-bis(1-methylethenyl)-, cis- | 62337-98-8 | C14H24 | 2929865.0 | 73.2 | 6.339 |
| 21.9846 | 2-Propenal, 3-(2,6,6-trimethyl-1-cyclohexen-1-yl)- | 4951-40-0 | C12H18O | 3619286.8 | 71.8 | 7.831 |
| 22.0655 | 2-Benzofuranmethanol, 2,4,5,6,7,7a-hexahydro-4,4,7a-trimethyl-, cis- | 77384-15-7 | C12H20O2 | 2854761.0 | 74.7 | 6.177 |
| 22.1367 | 1-Octanol, 2-butyl- | 3913-02-8 | C12H26O | 4220339.4 | 81.0 | 9.131 |
| 22.3244 | Naphthalene, 1,2,3,4-tetrahydro-1,1,6-trimethyl- | 475-03-6 | C13H18 | 1507192.6 | 75.0 | 3.261 |
| 22.4507 | Cyclohexane, 1-(2,2-dimethylpropyl)-3,5-diethenyl-2-methyl- | 61141-98-8 | C16H28 | 1834765.3 | 76.5 | 3.97 |
| 22.5251 | Naphthalene, 2-methyl- | 91-57-6 | C11H10 | 2612416.1 | 80.7 | 5.652 |
| 22.6125 | Naphthalene, 1,2,3,4-tetrahydro-1,5-dimethyl- | 21564-91-0 | C12H16 | 1981041.9 | 73.9 | 4.286 |
| 22.7970 | 1,11-Dodecadiene | 5876-87-9 | C12H22 | 2803132.2 | 75.9 | 6.065 |
| 23.3213 | Cyclohexane, 1-(cyclohexylmethyl)-2-ethyl-, trans- | 54934-92-8 | C15H28 | 958060.8 | 74.8 | 2.073 |
| 23.3828 | 1,3-Cyclododecadiene, (E,Z)- | 1129-92-6 | C12H20 | 1127066.2 | 83.6 | 2.439 |
| 23.8360 | 1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- | 54832-83-6 | C15H28 | 253567.6 | 81.5 | 0.5486 |

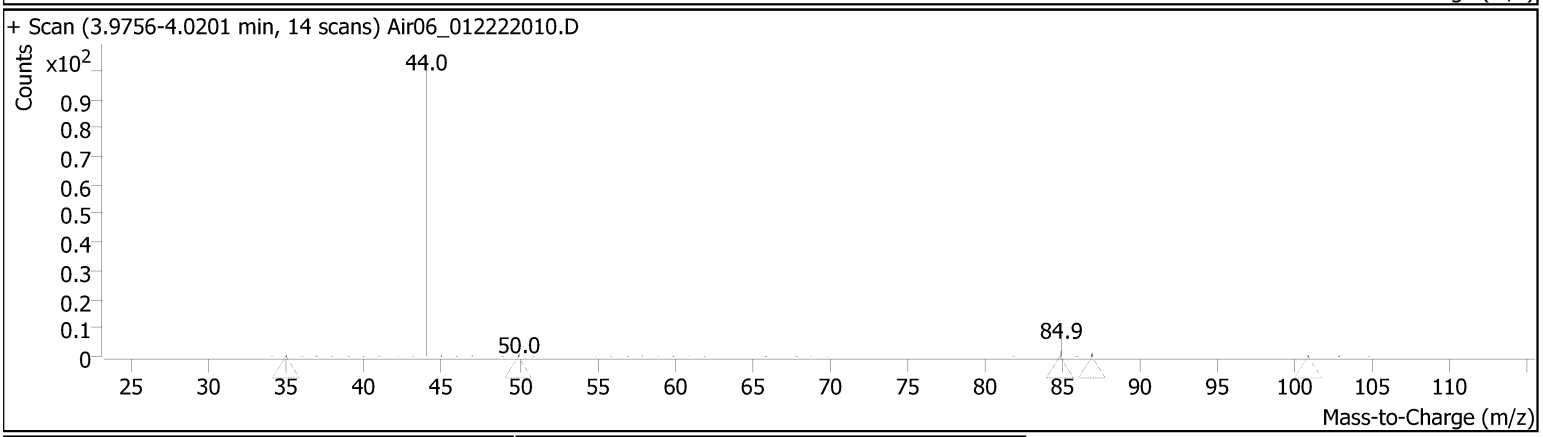
**Sample Chromatogram**

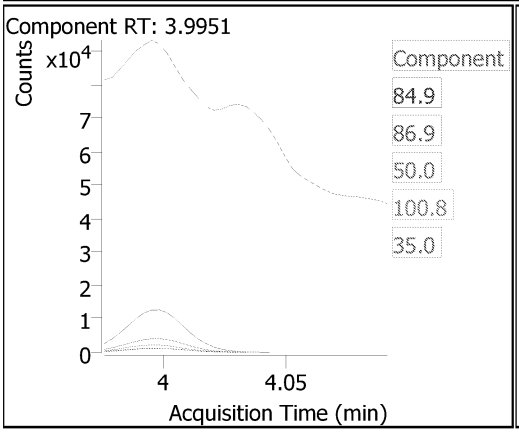


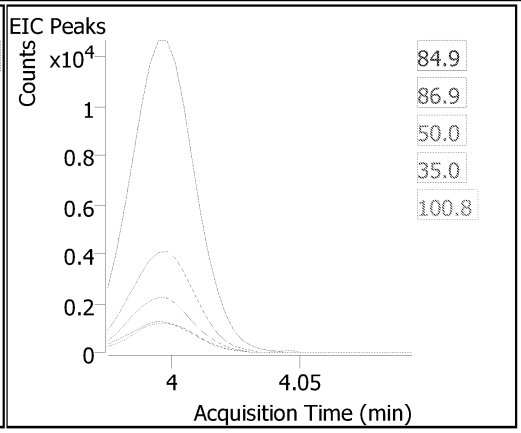
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9951 | Dichlorodifluoromethane | 138365.6 | 96.7 | 75-71-8 | CCl2F2 | 0.5586 |

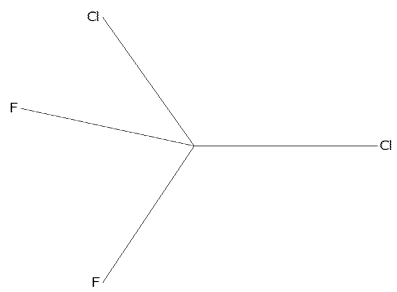


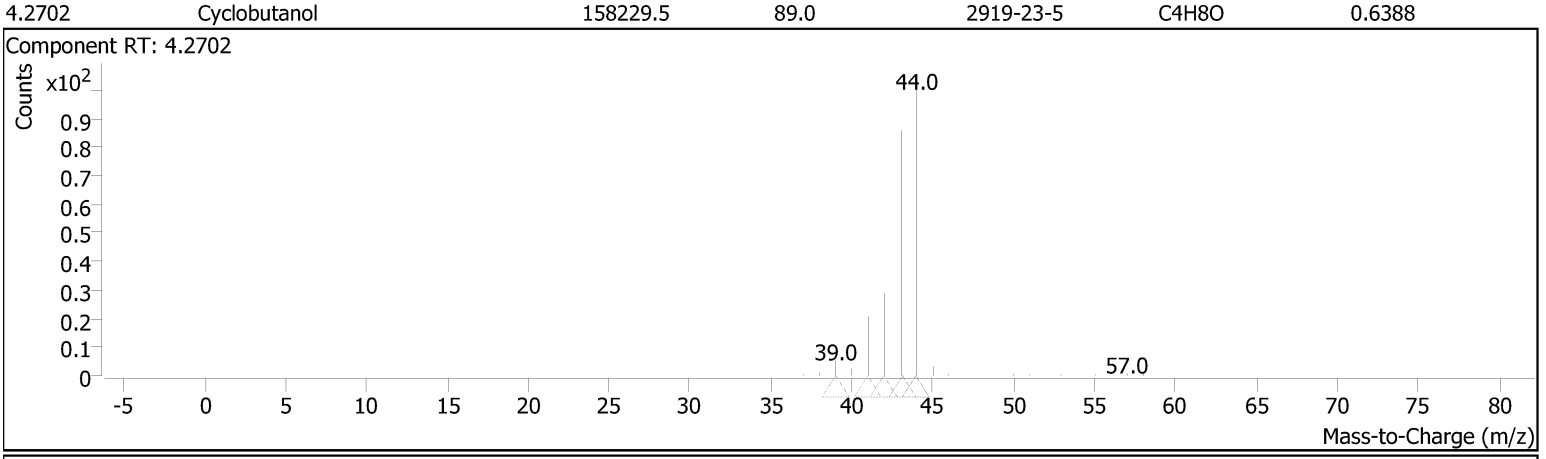



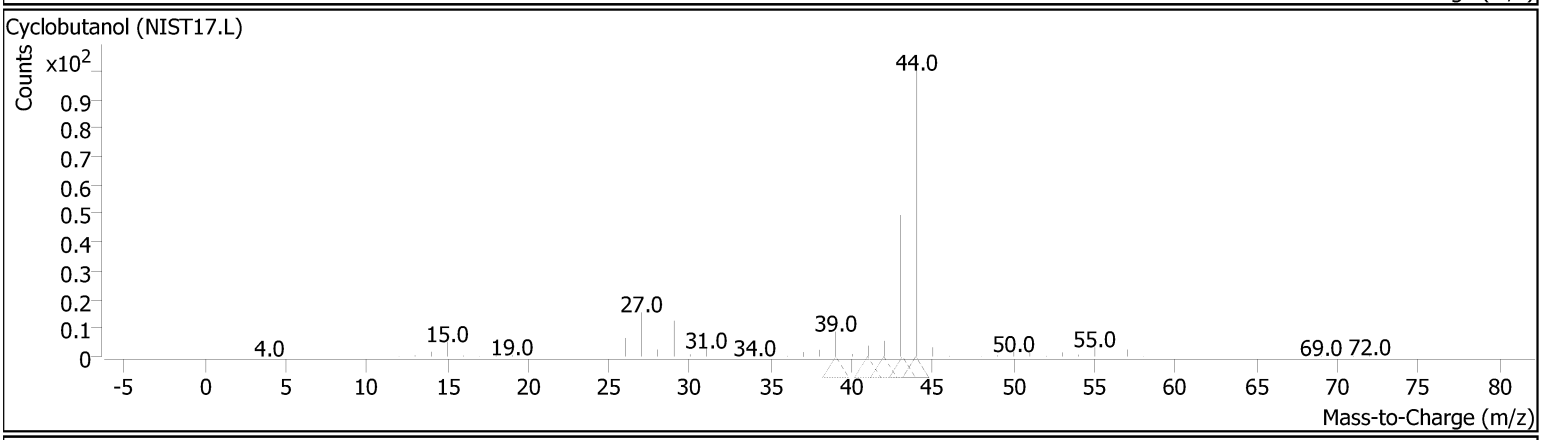



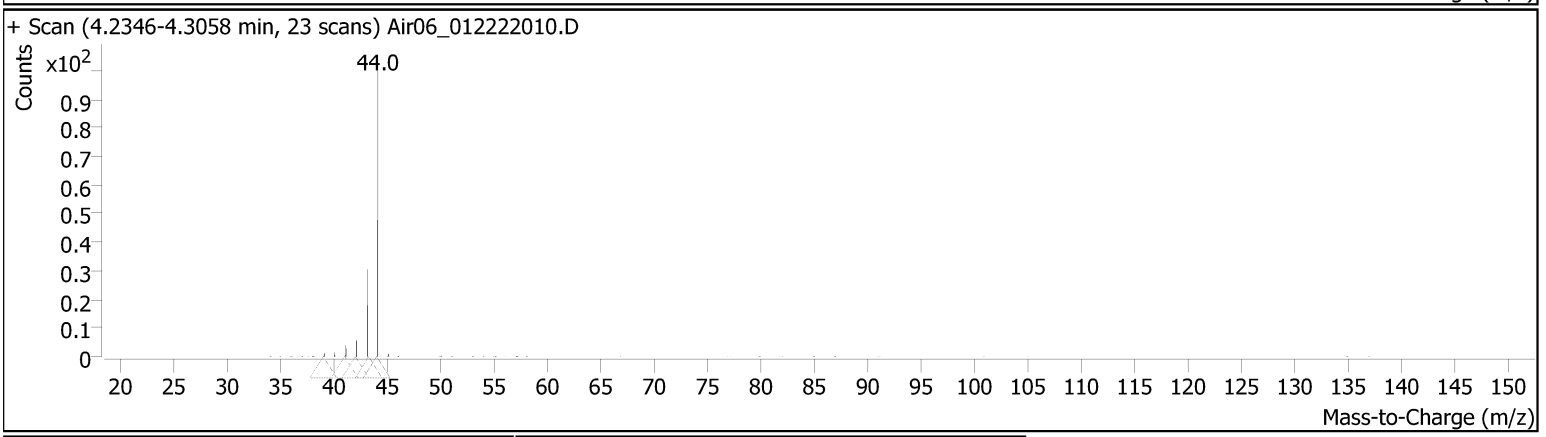



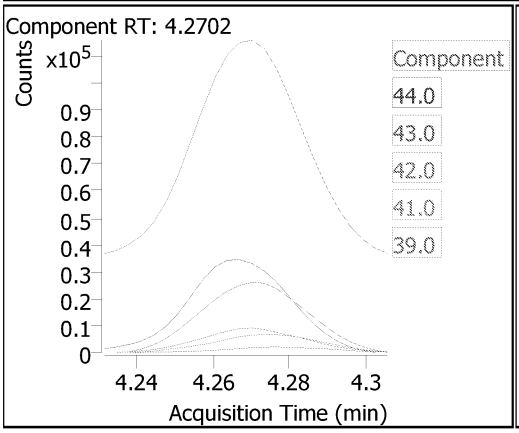



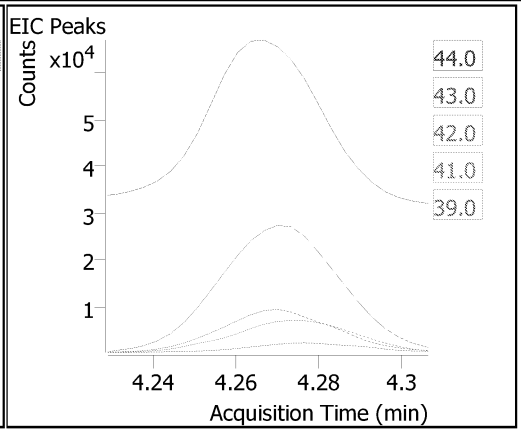
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.2702 | Cyclobutanol | 158229.5 | 89.0 | 2919-23-5 | C4H8O | 0.6388 |

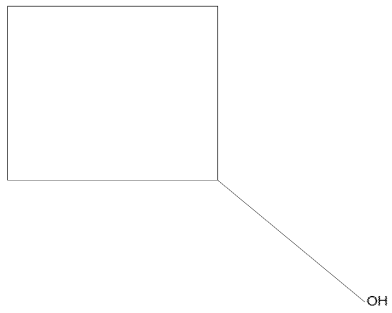


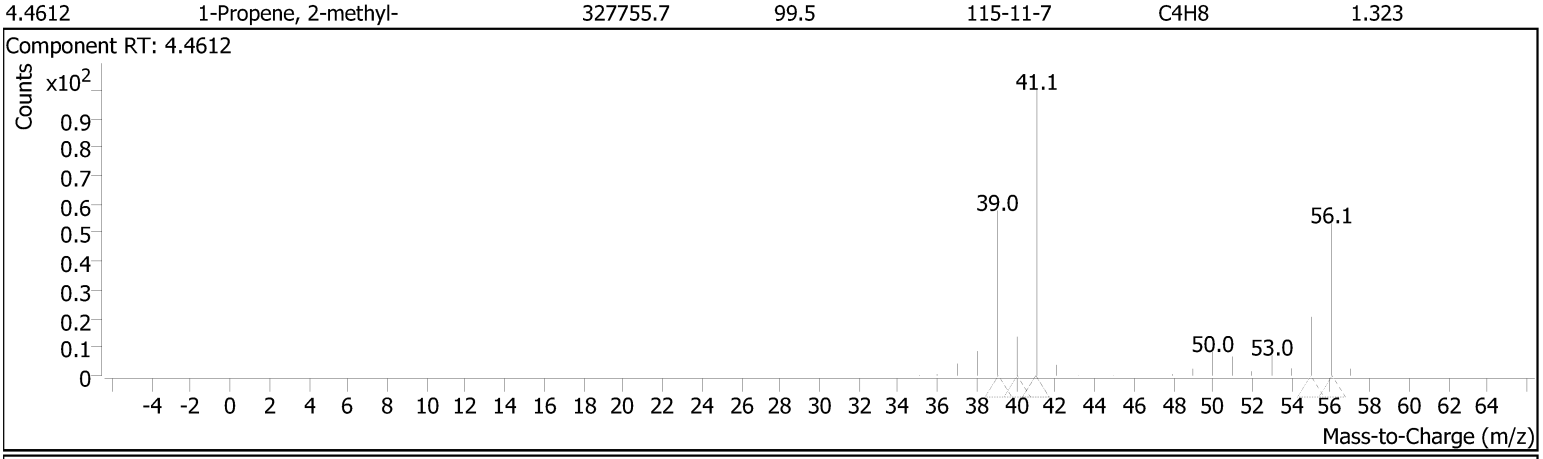



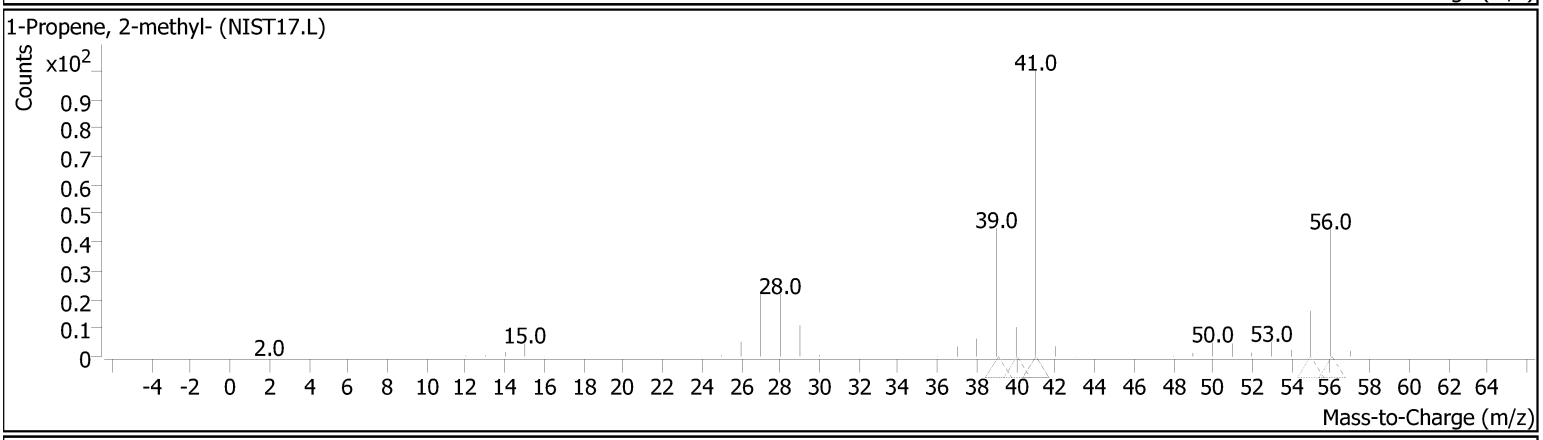



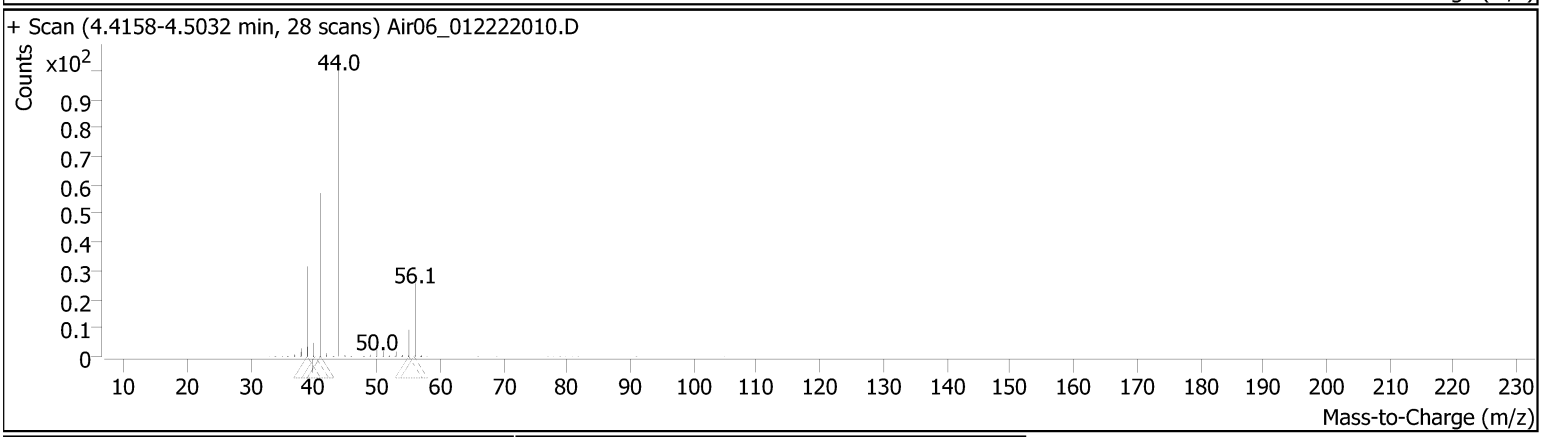



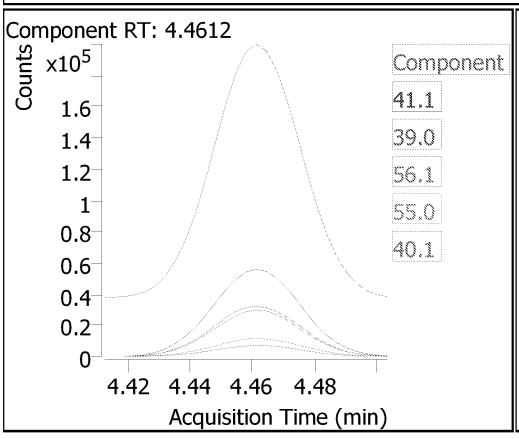



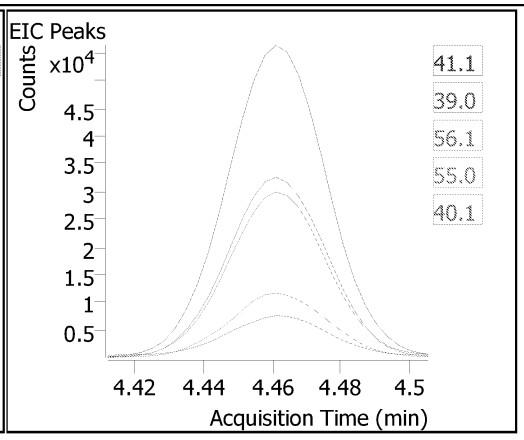
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.4612 | 1-Propene, 2-methyl- | 327755.7 | 99.5 | 115-11-7 | C4H8 | 1.323 |

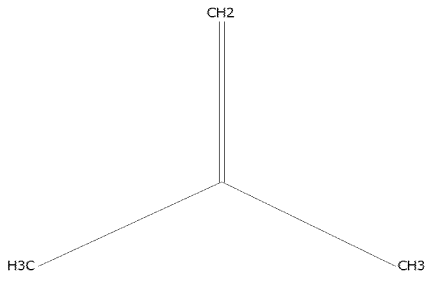


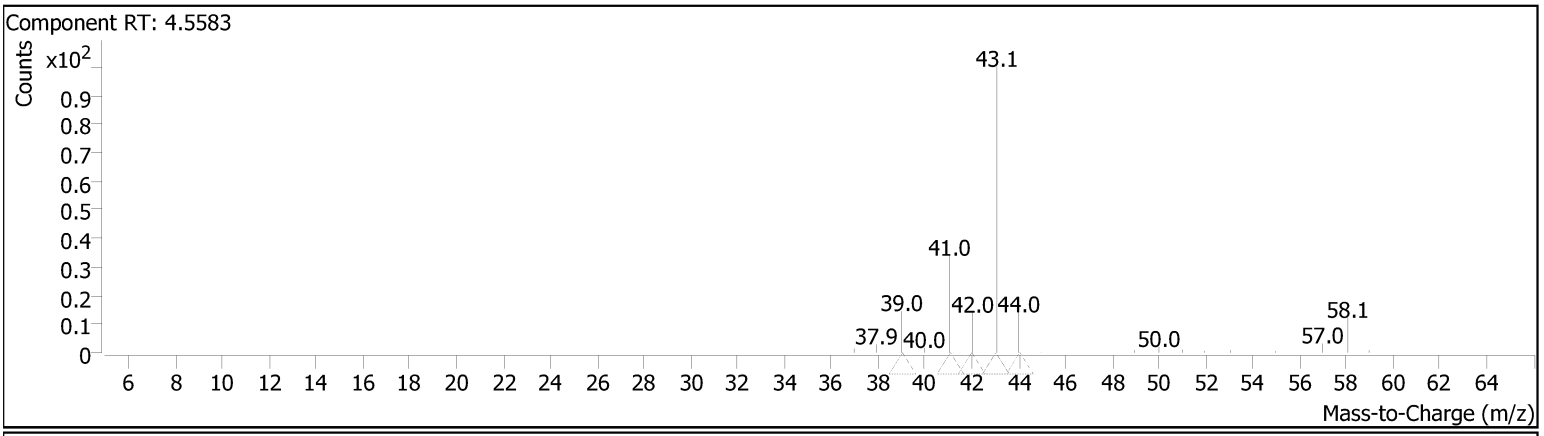



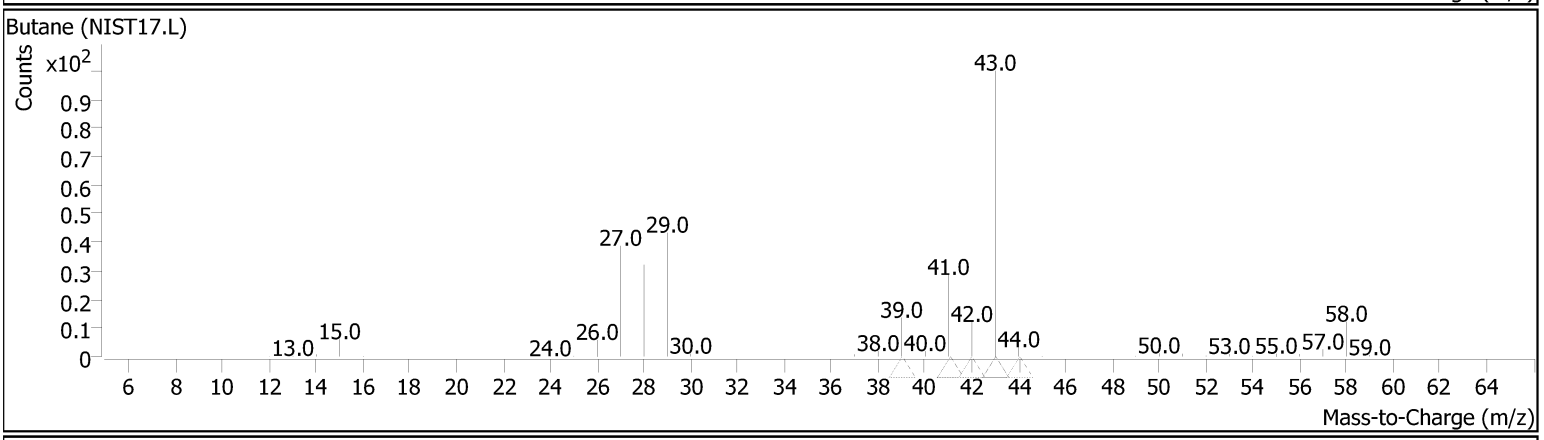



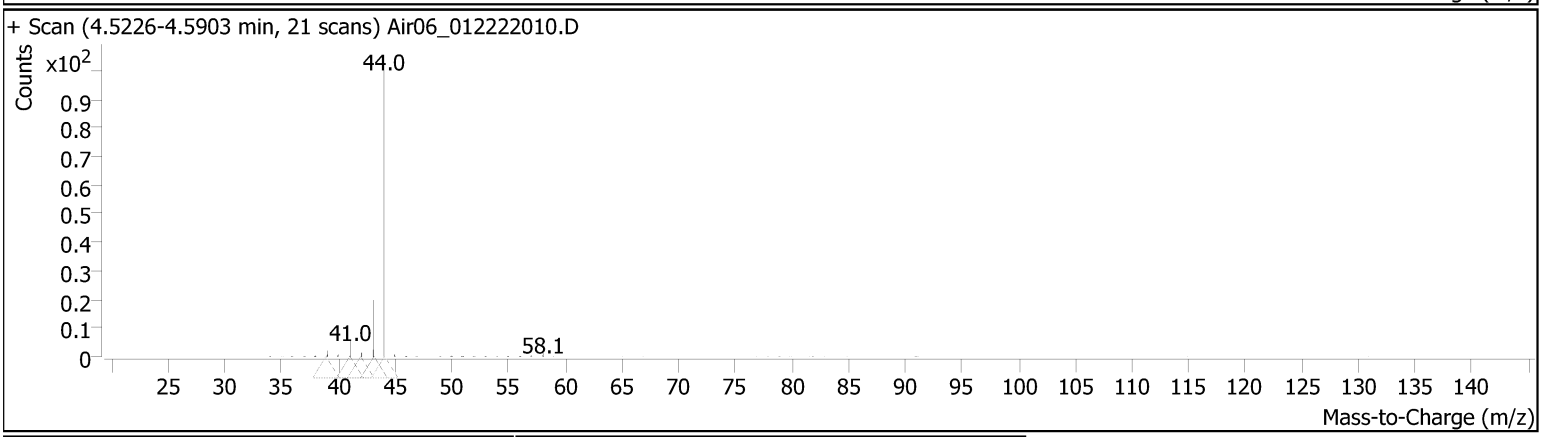



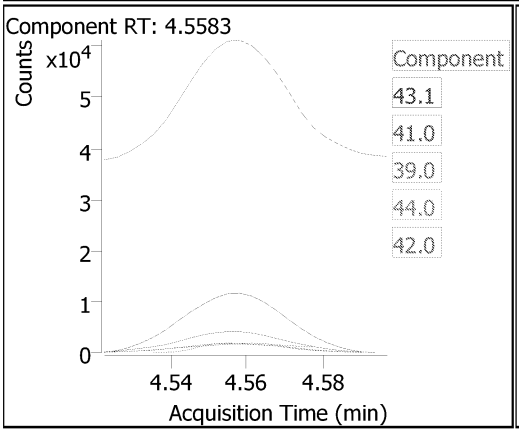



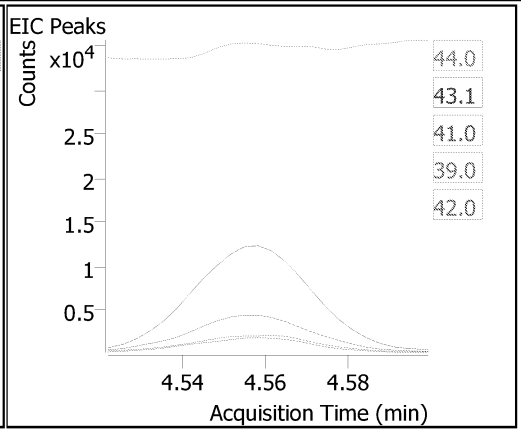
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.5583 | Butane | 43966.5 | 96.6 | 106-97-8 | C4H10 | 0.1775 |



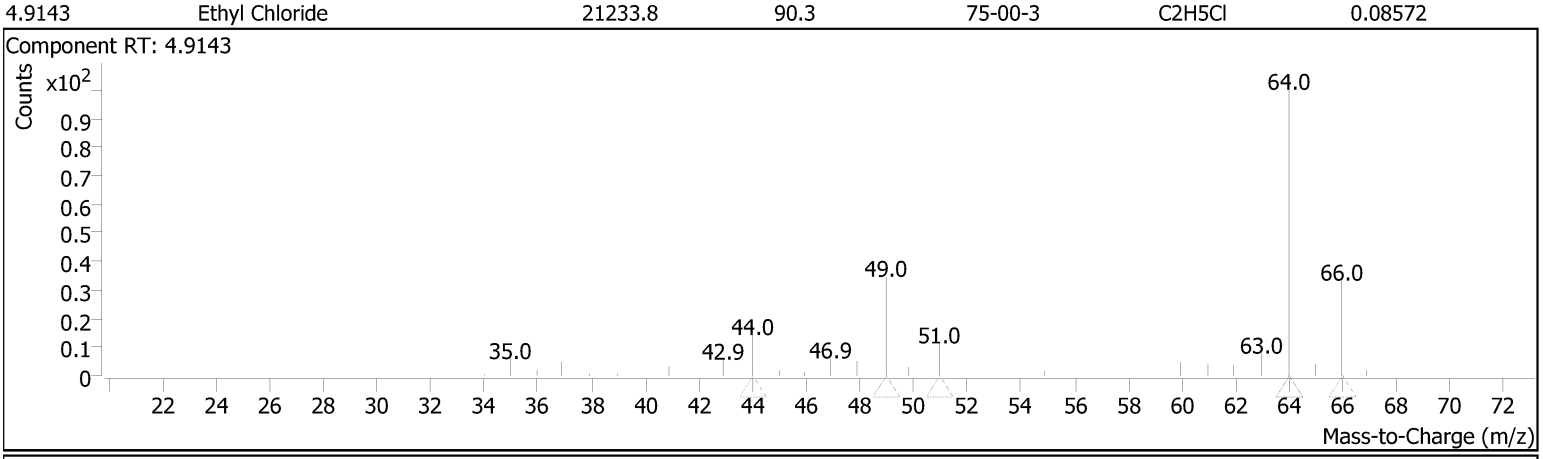



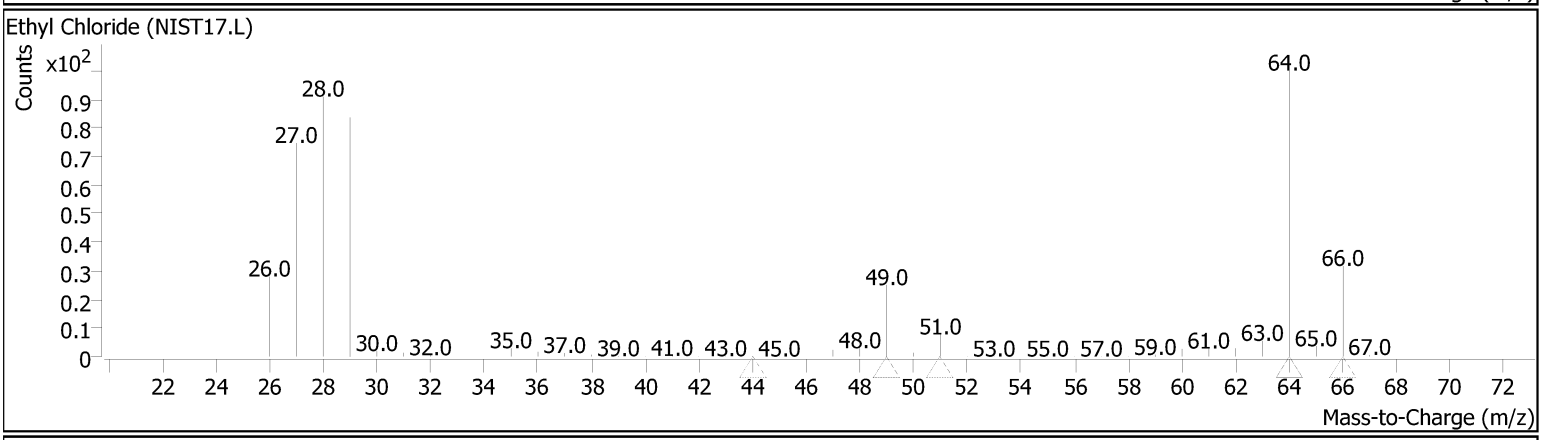



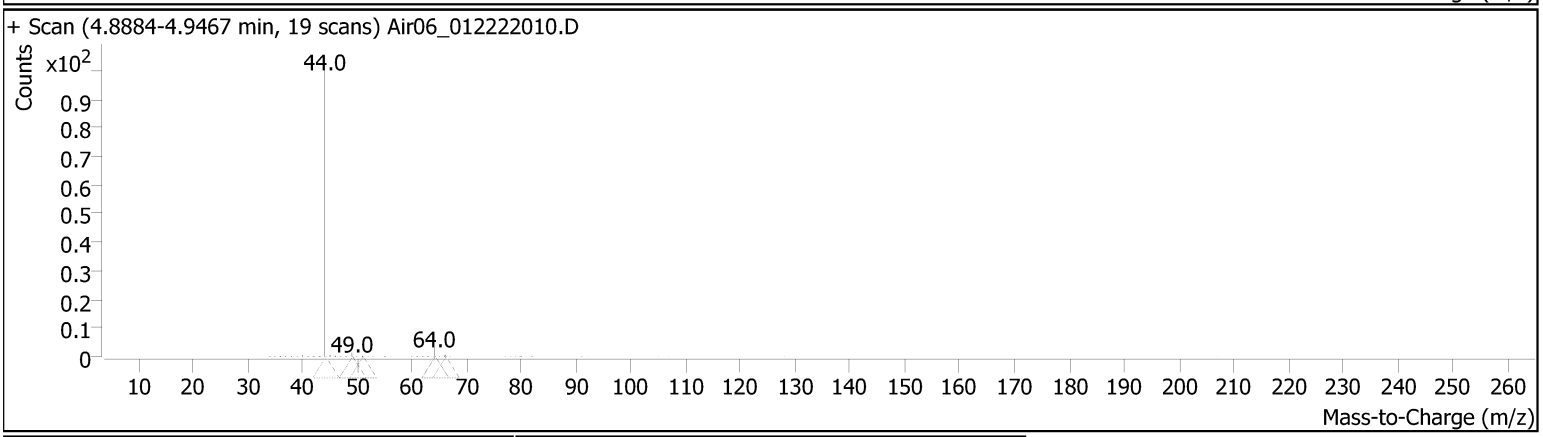



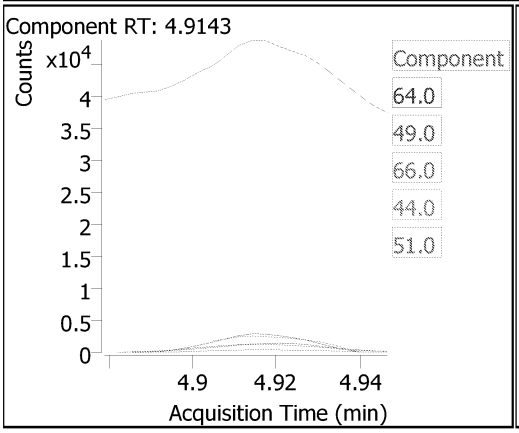


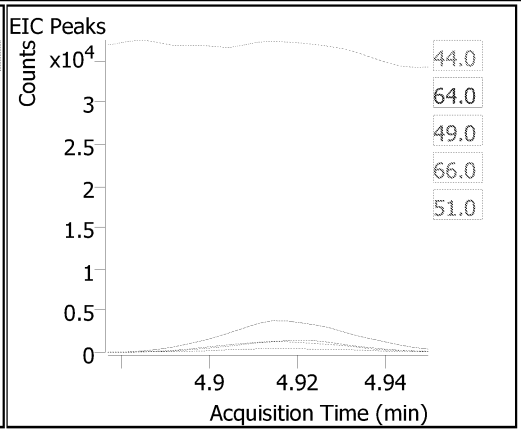

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.9143 | Ethyl Chloride | 21233.8 | 90.3 | 75-00-3 | C2H5Cl | 0.08572 |



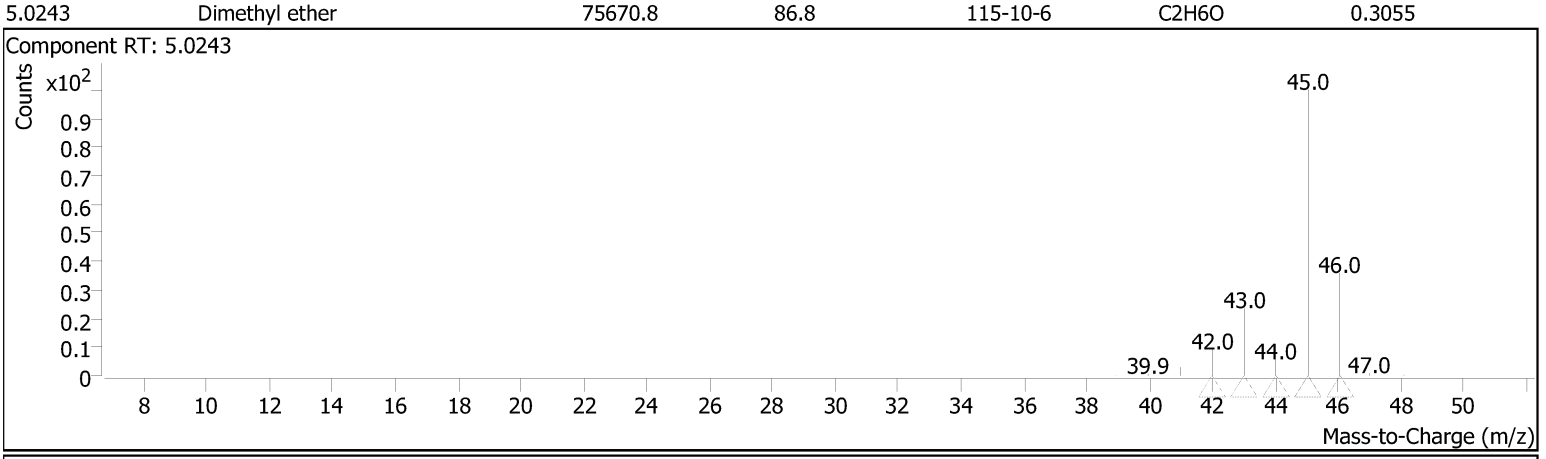



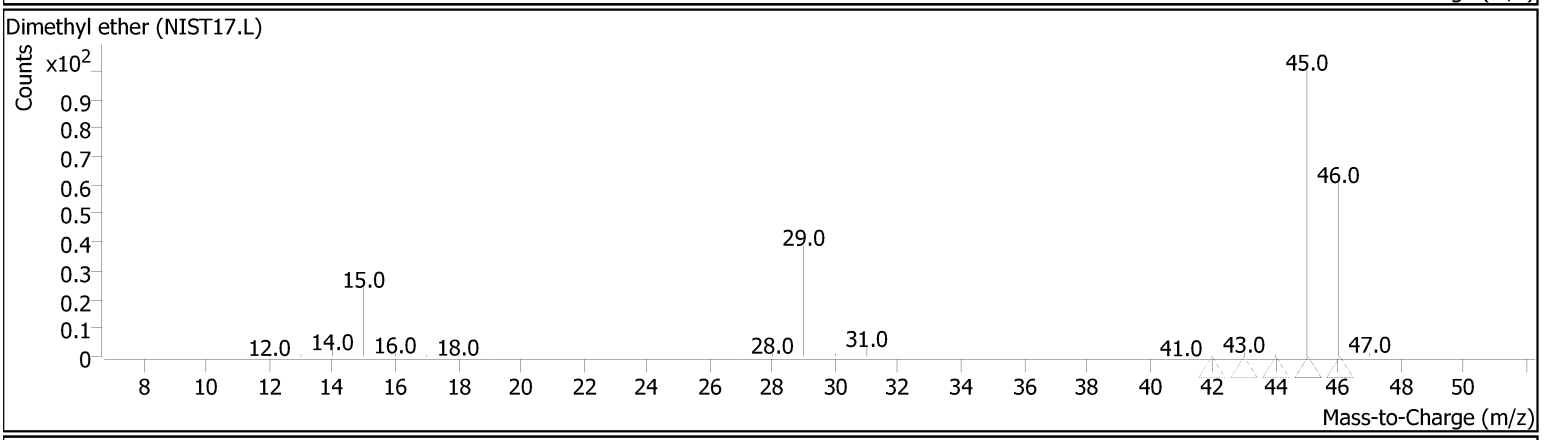



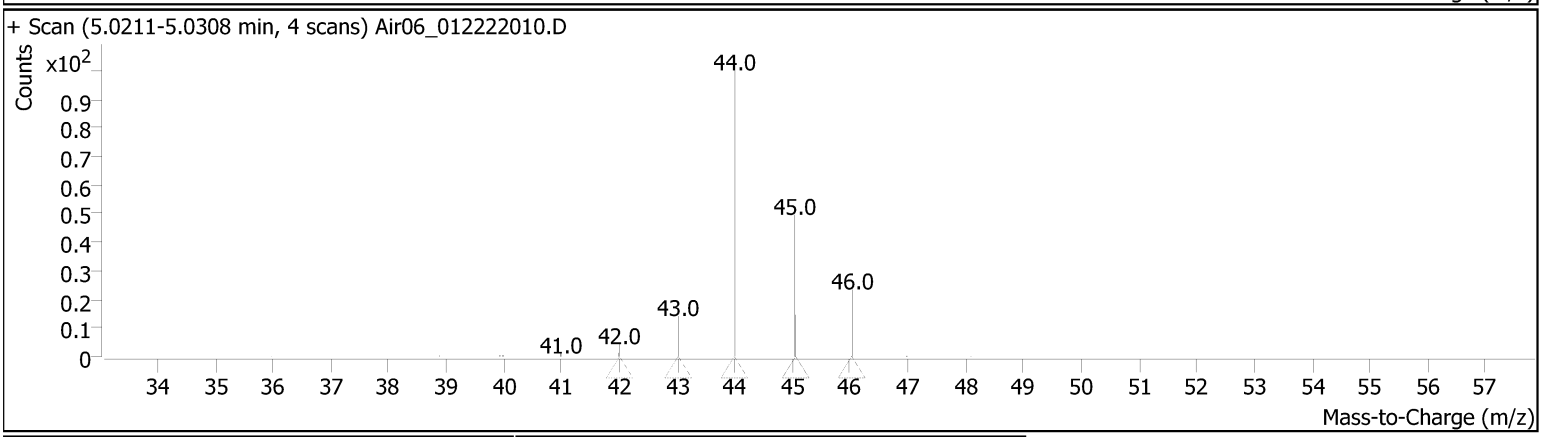



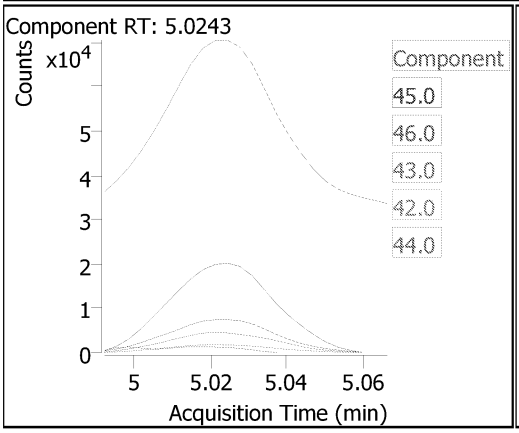


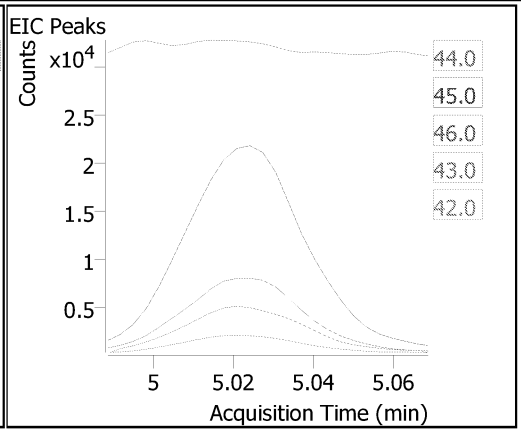

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.0243 | Dimethyl ether | 75670.8 | 86.8 | 115-10-6 | C2H6O | 0.3055 |

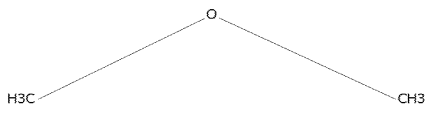


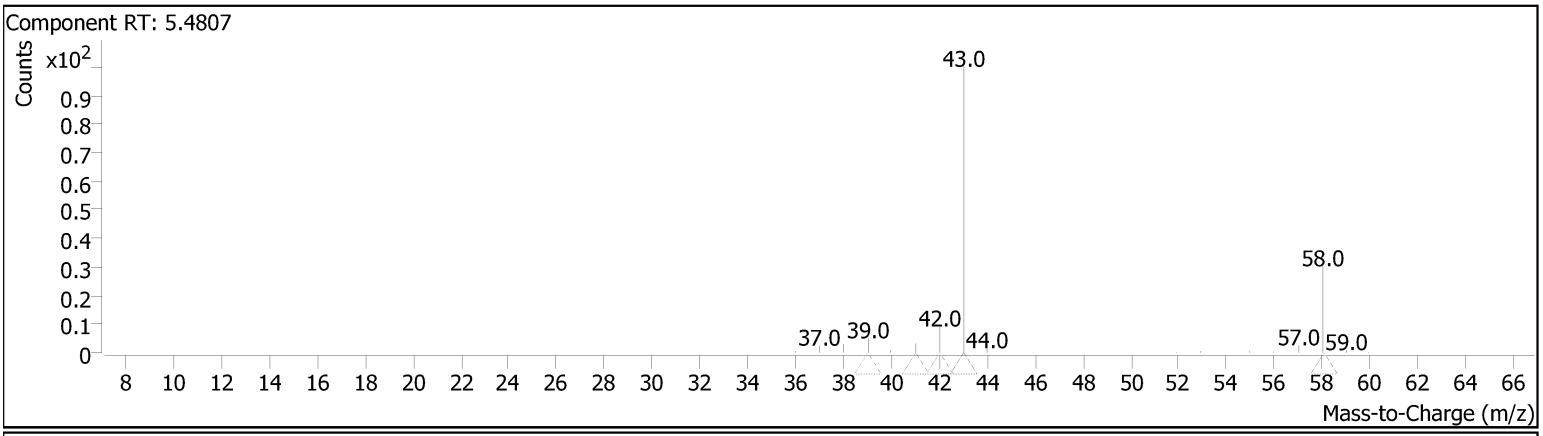



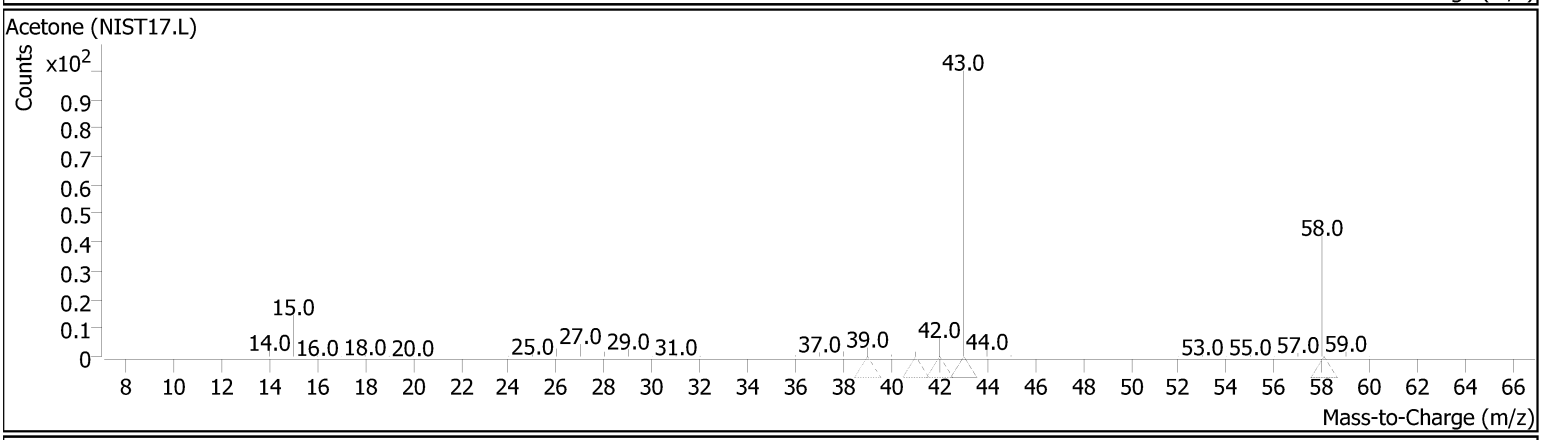



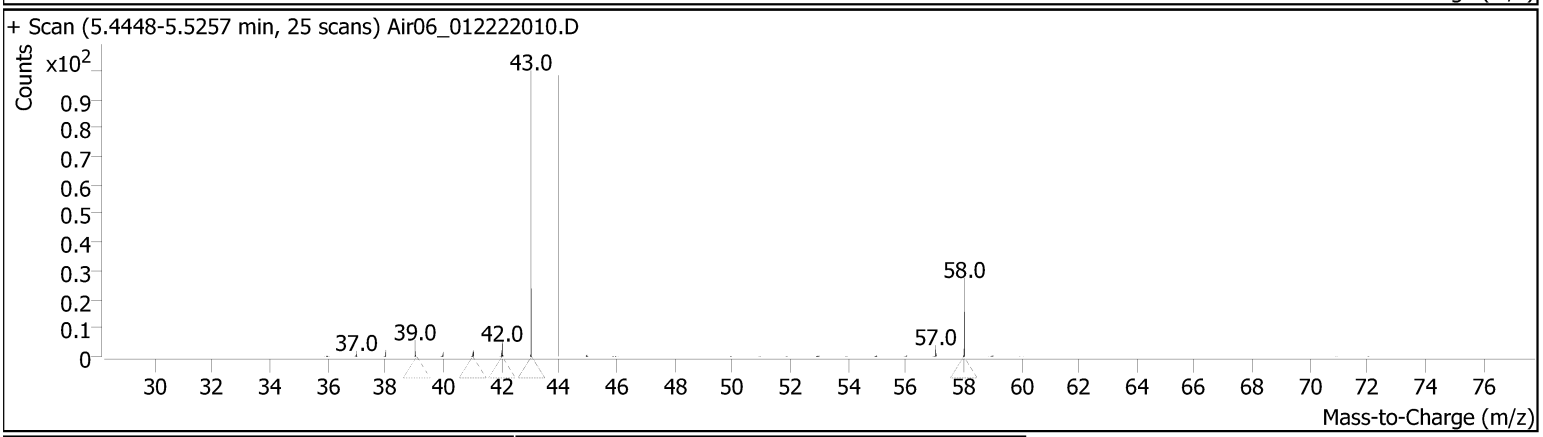



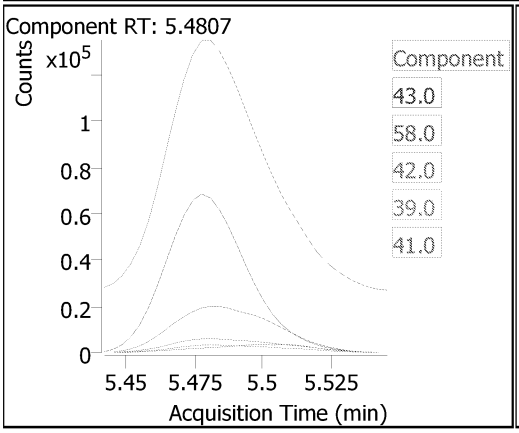



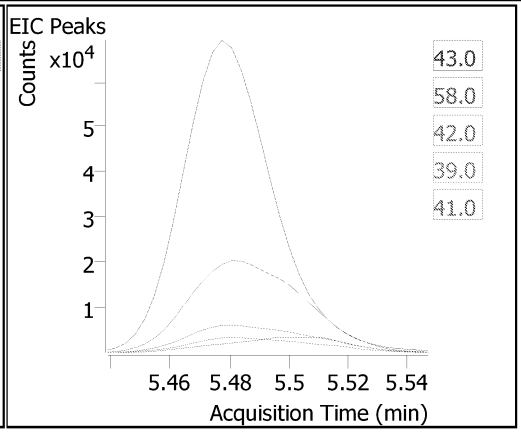
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.4807 | Acetone | 266650.6 | 98.1 | 67-64-1 | C3H6O | 1.076 |

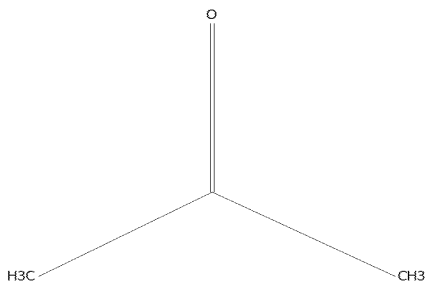


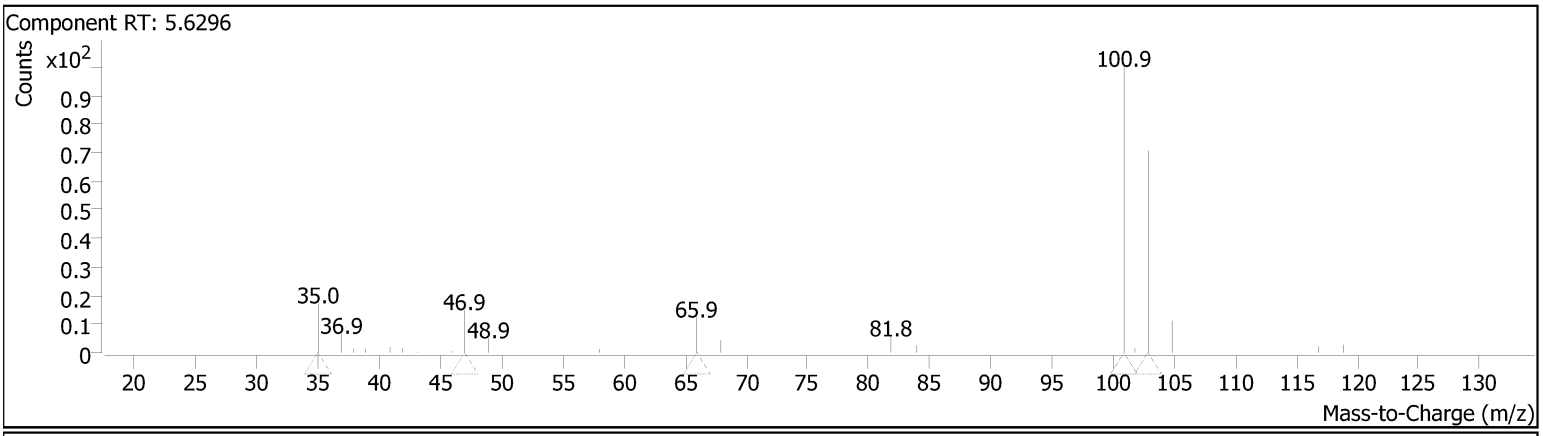



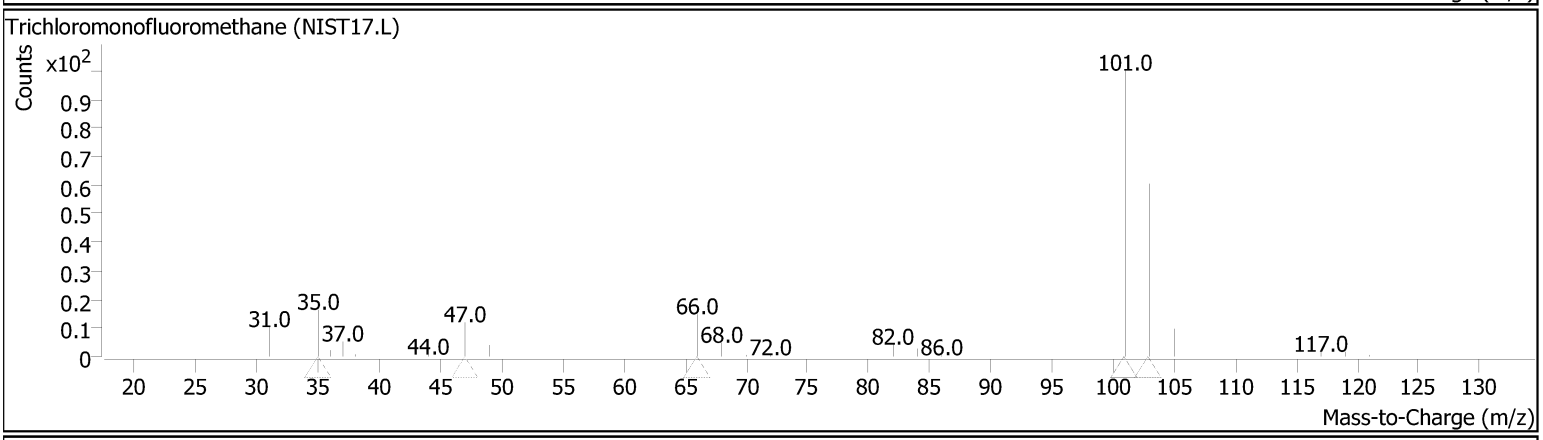



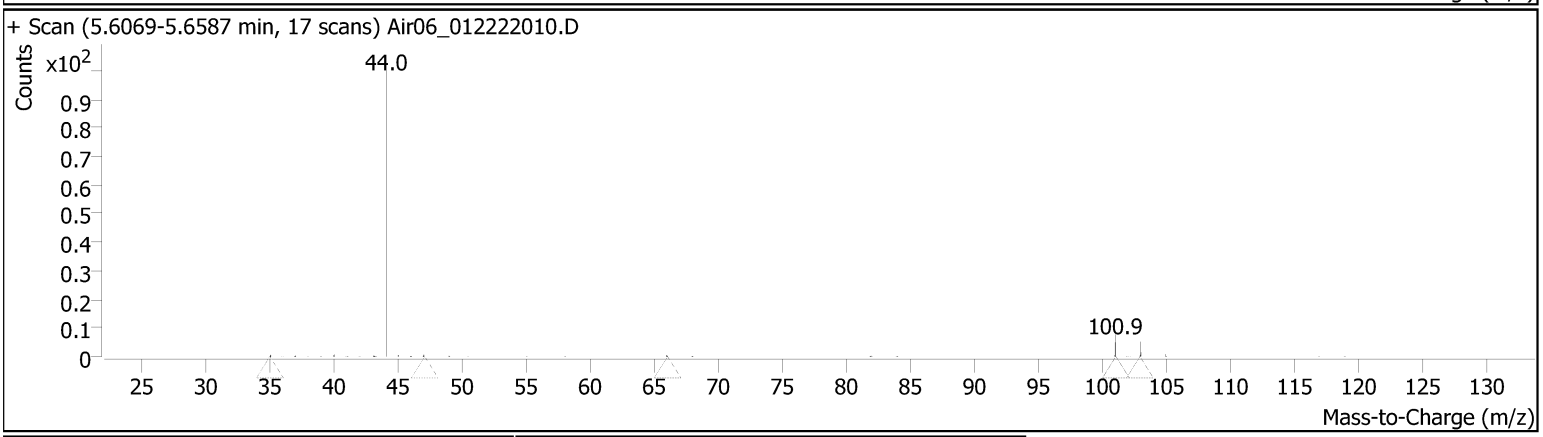



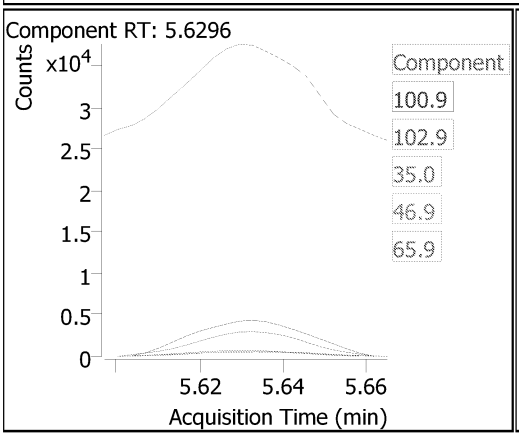



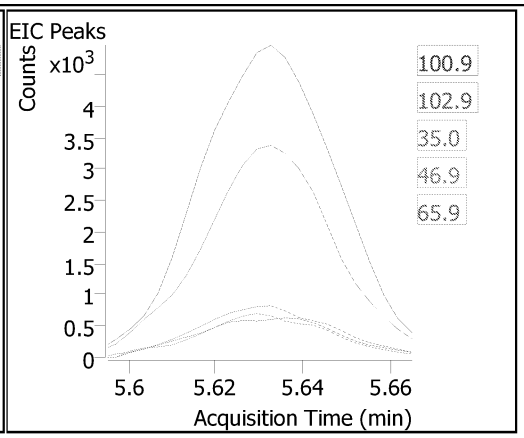
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.6296 | Trichloromonofluoromethane | 23325.4 | 96.4 | 75-69-4 | CCl3F | 0.09416 |

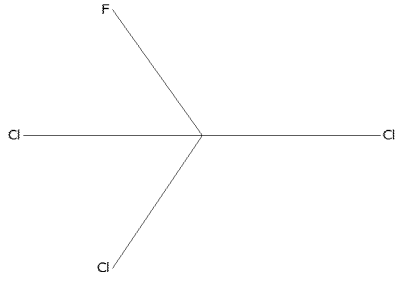


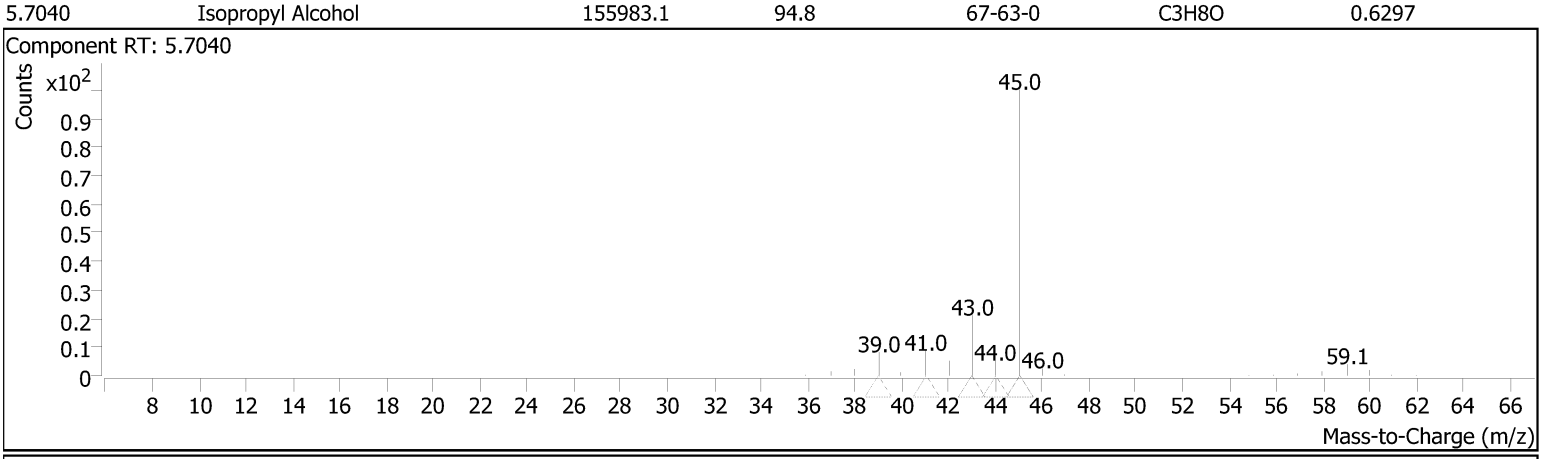



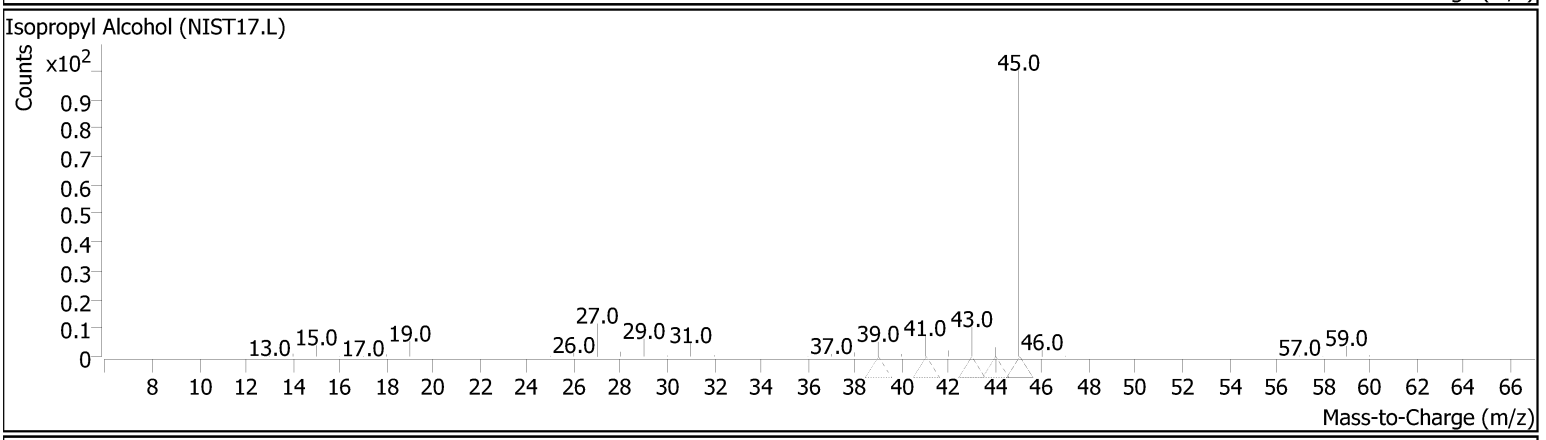



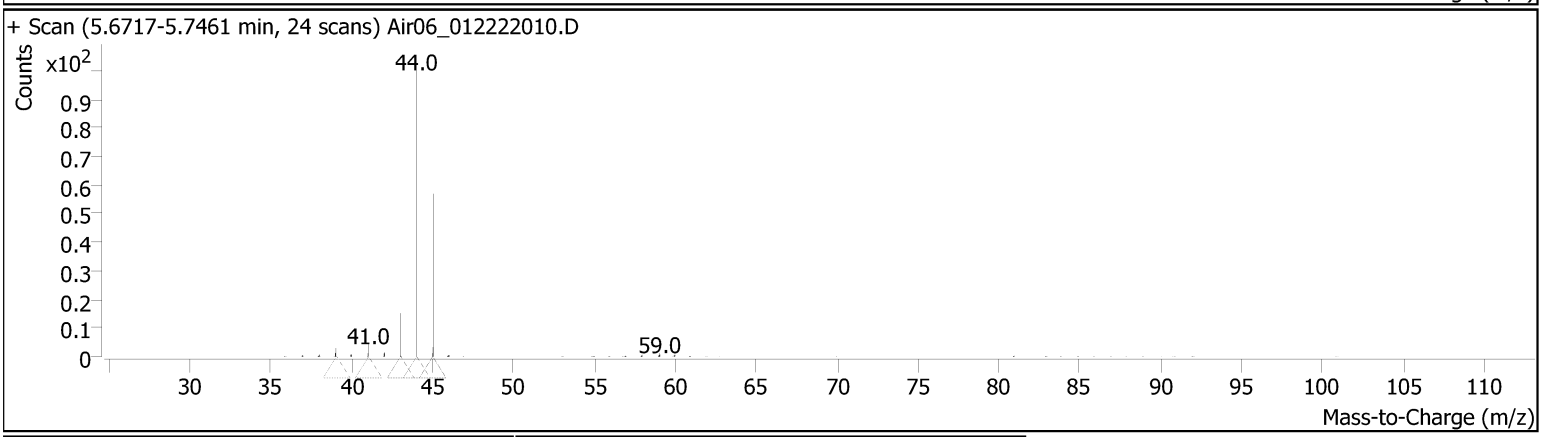



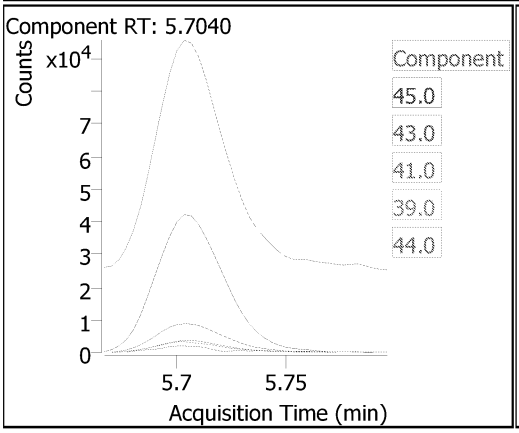



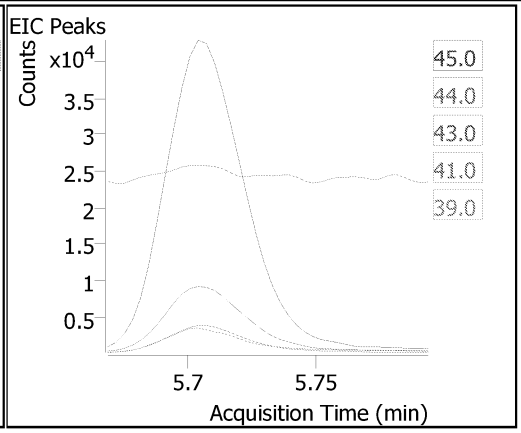
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.7040 | Isopropyl Alcohol | 155983.1 | 94.8 | 67-63-0 | C3H8O | 0.6297 |

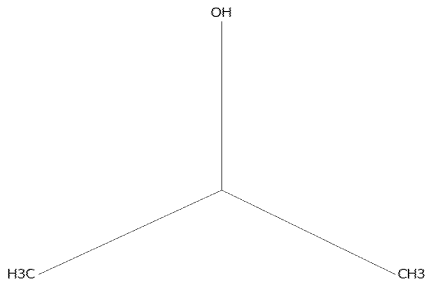


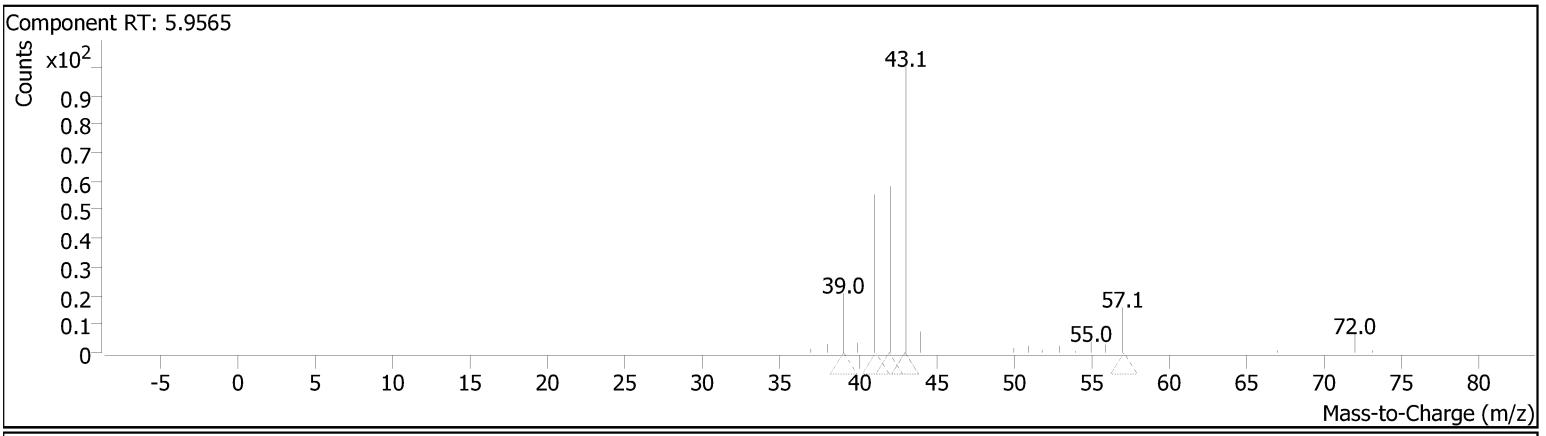



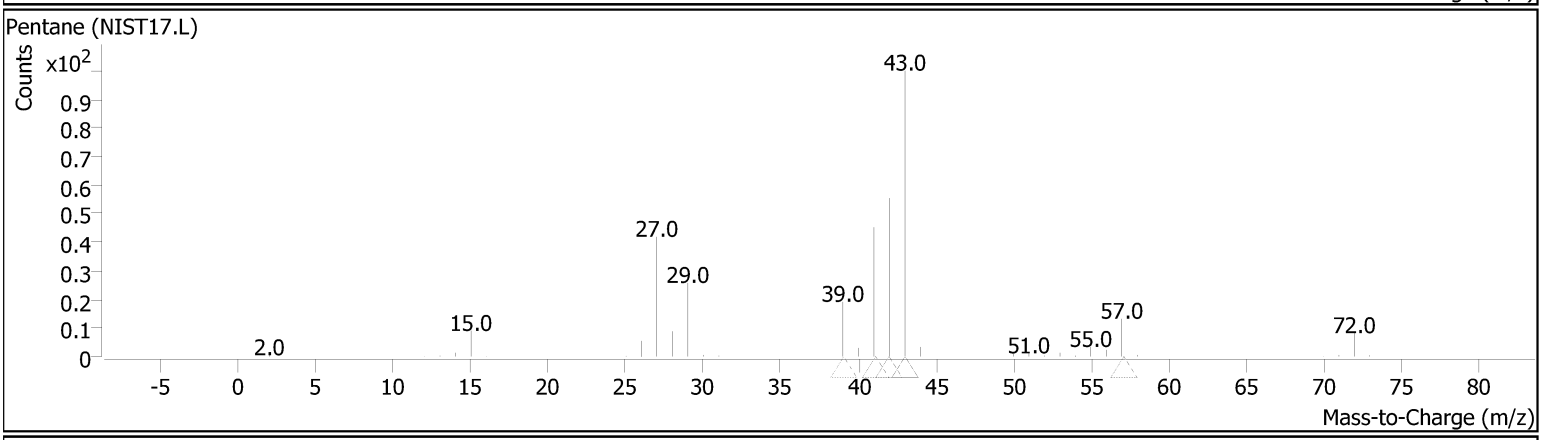



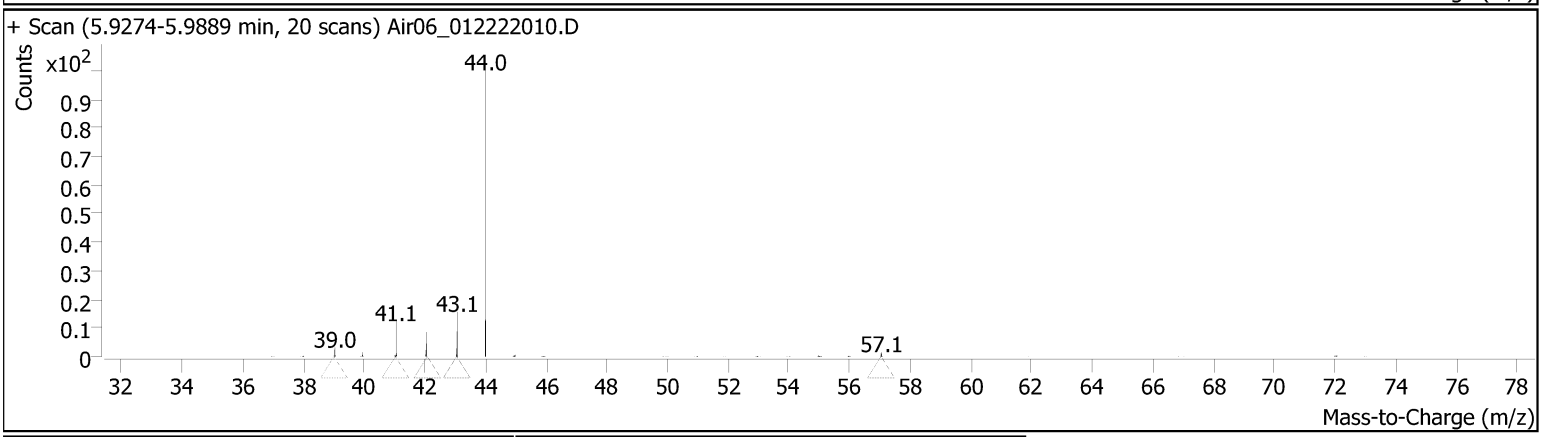



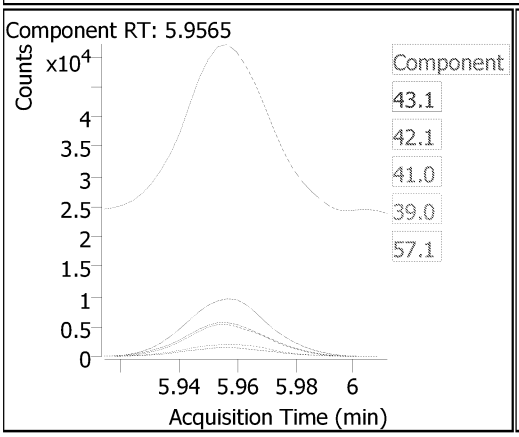



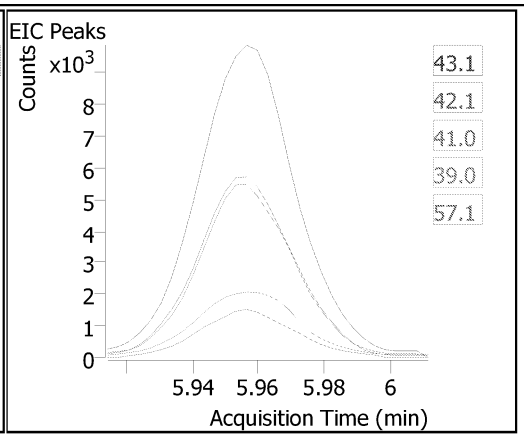
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.9565 | Pentane | 57937.3 | 97.2 | 109-66-0 | C5H12 | 0.2339 |

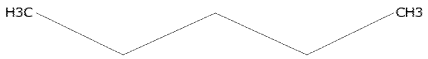


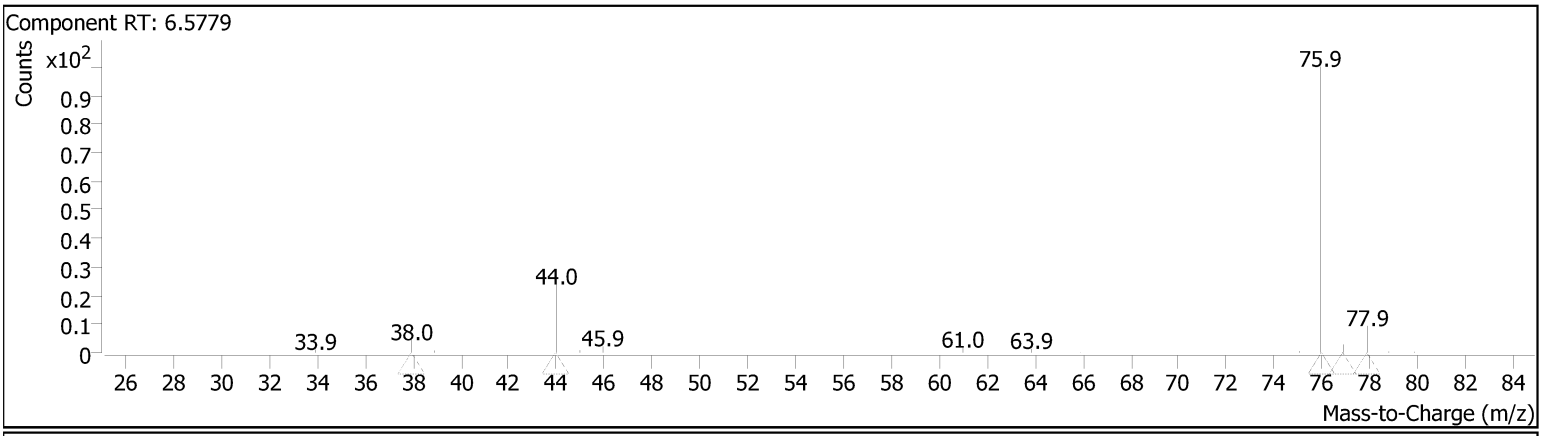



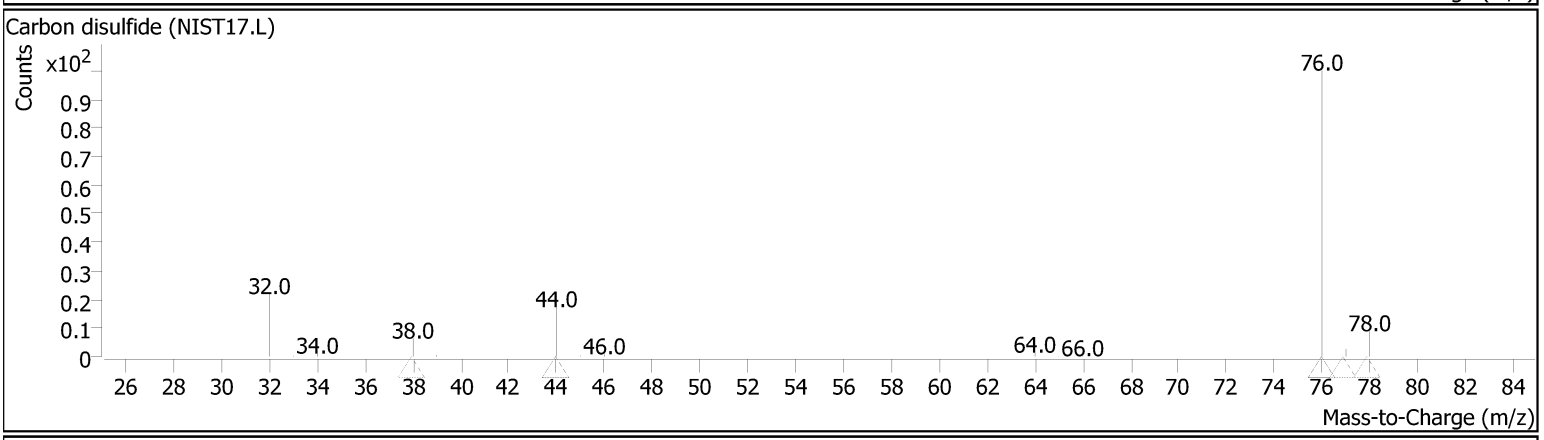



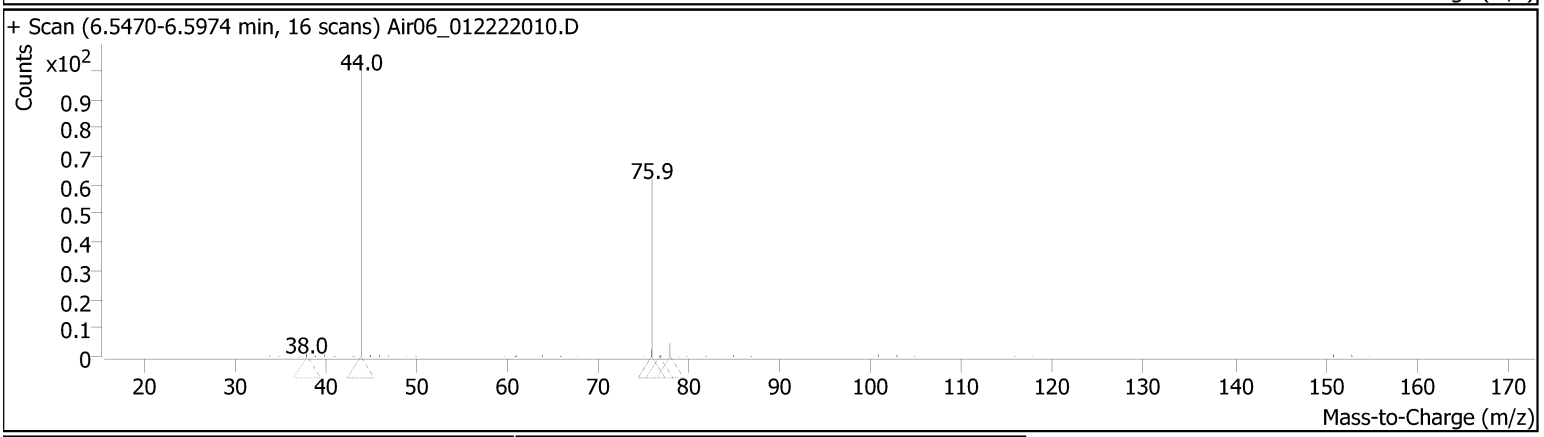



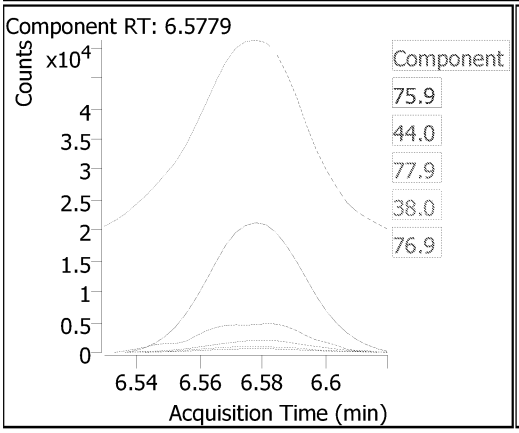



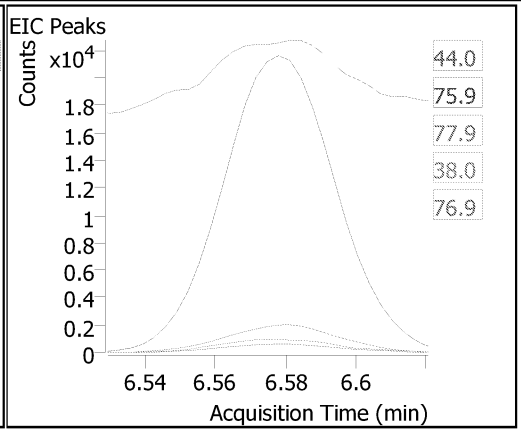
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.5779 | Carbon disulfide | 75923.1 | 97.2 | 75-15-0 | CS2 | 0.3065 |



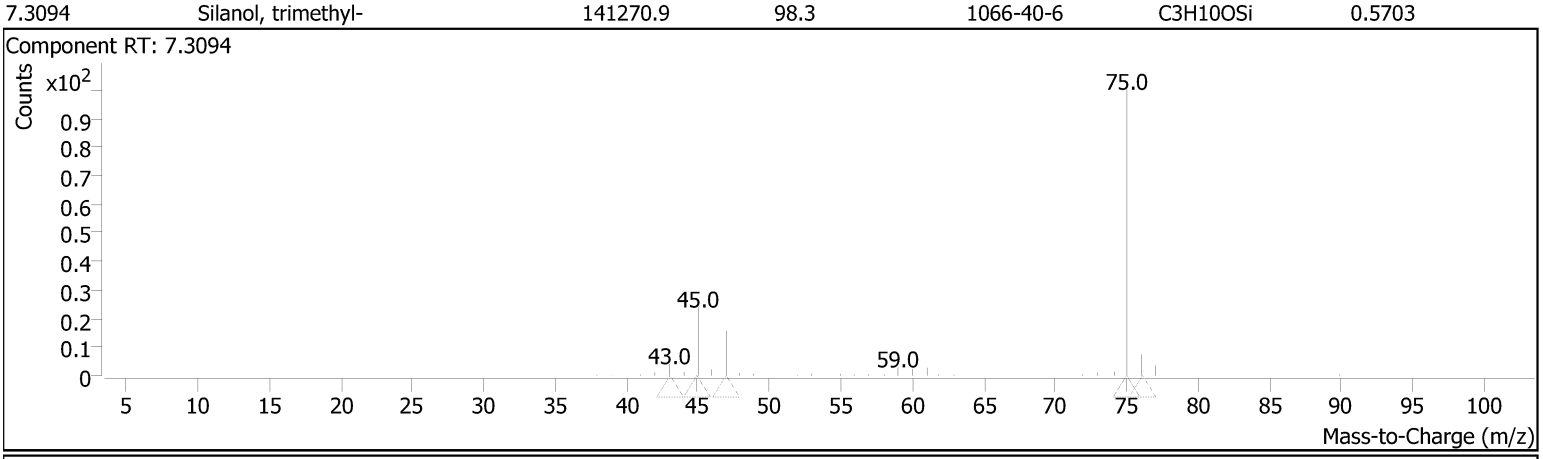



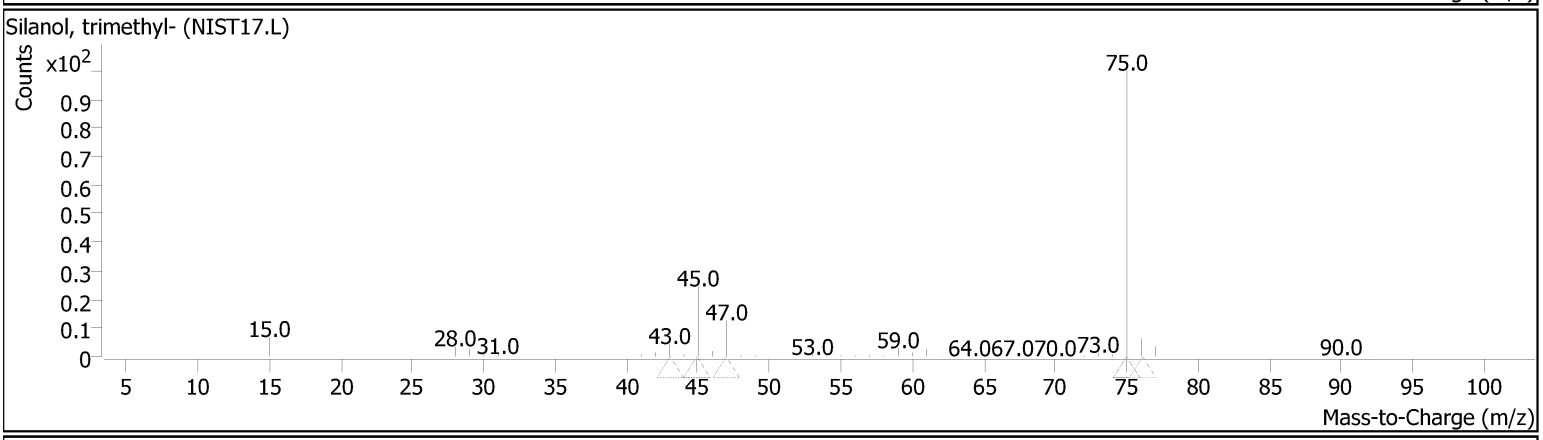



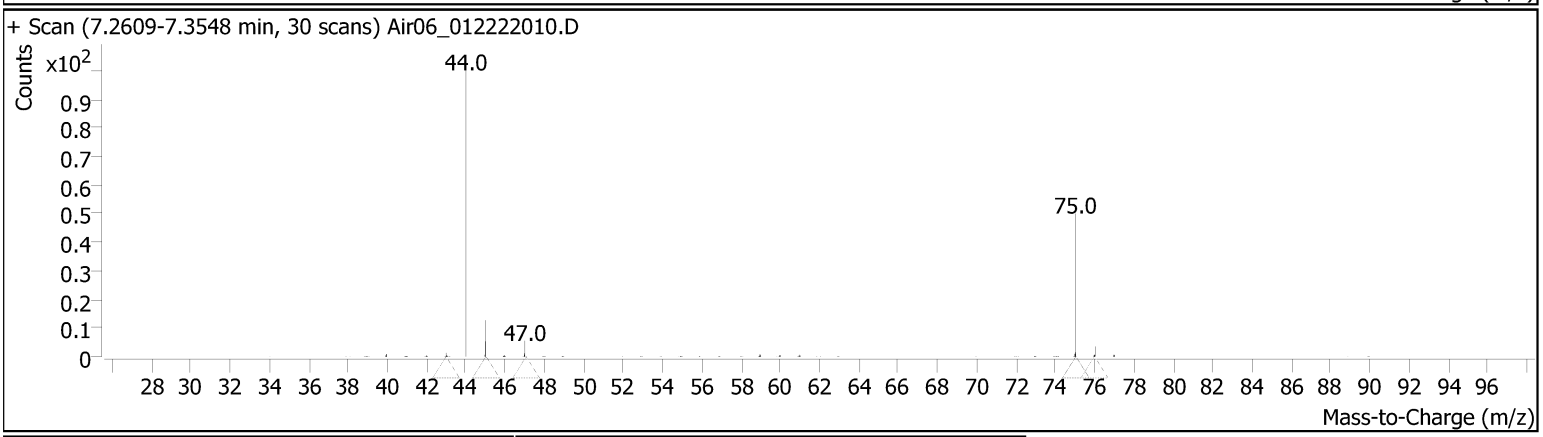



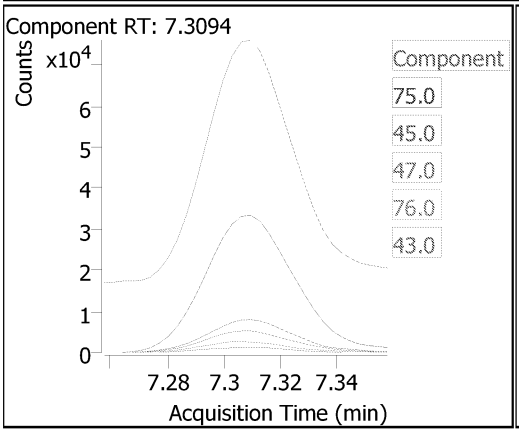



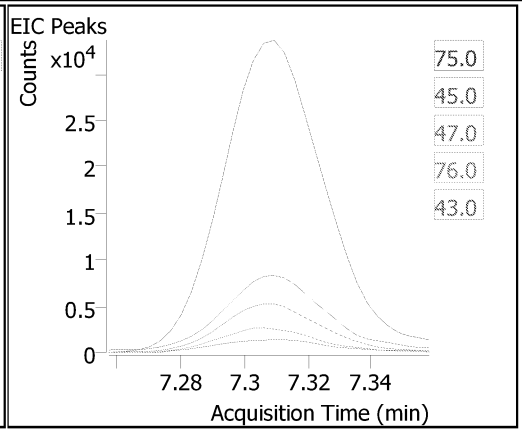
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.3094 | Silanol, trimethyl- | 141270.9 | 98.3 | 1066-40-6 | C3H10OSi | 0.5703 |

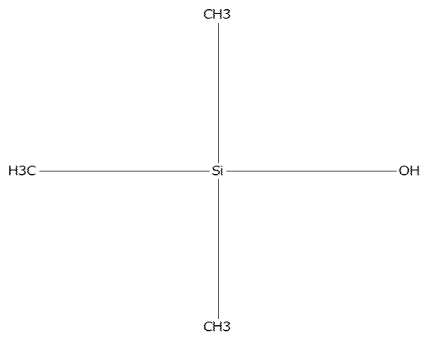


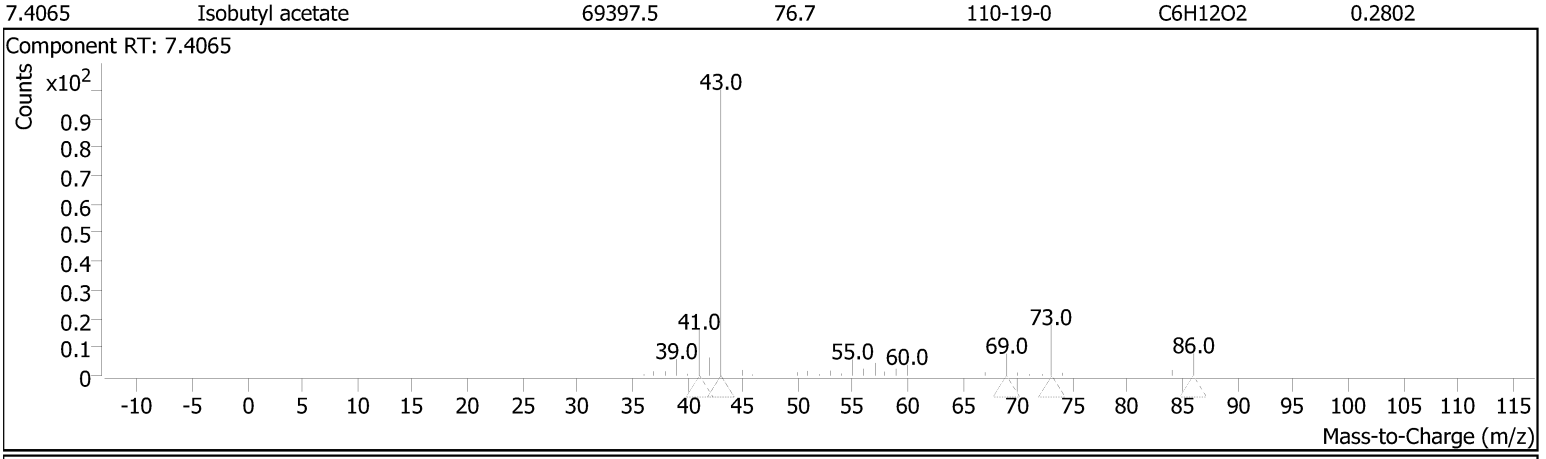



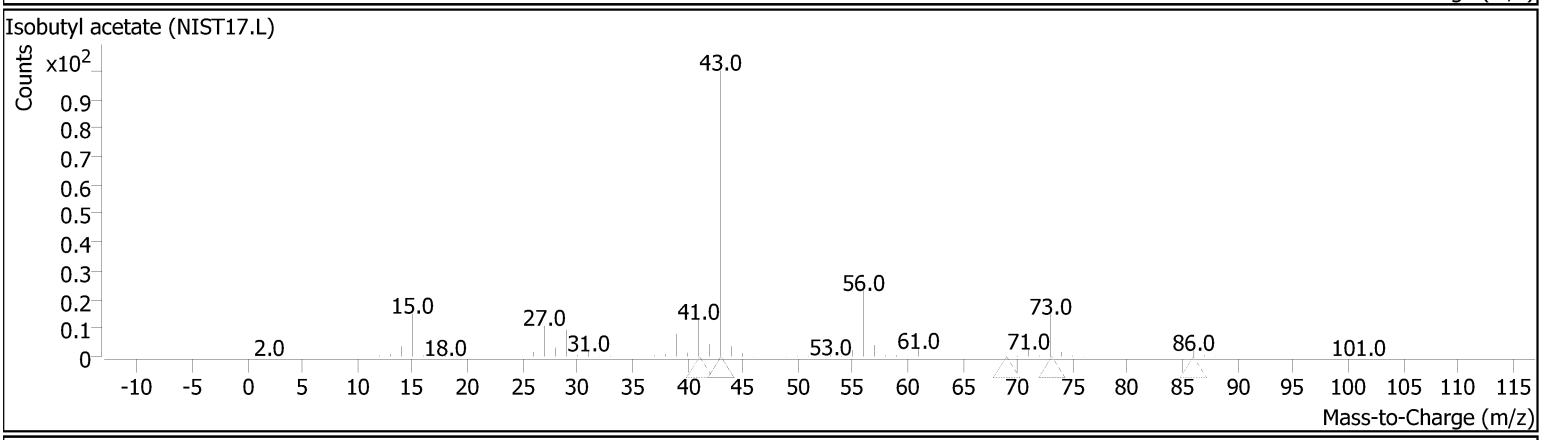



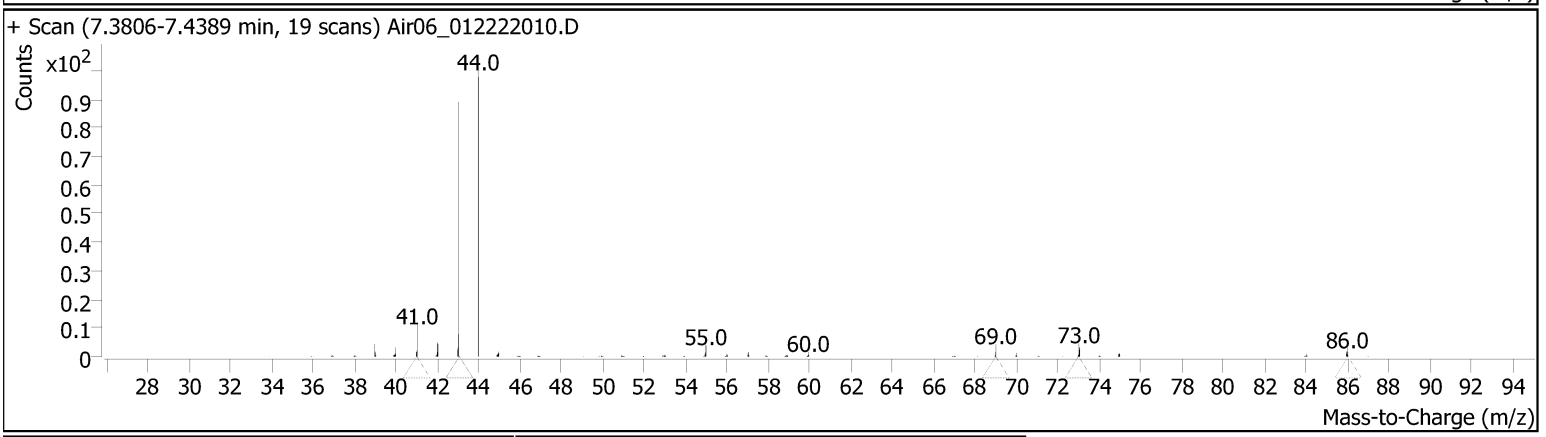



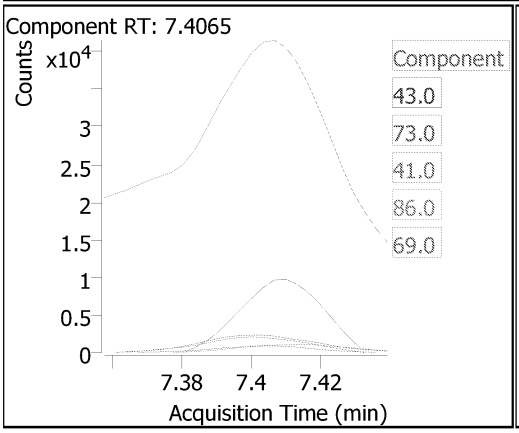



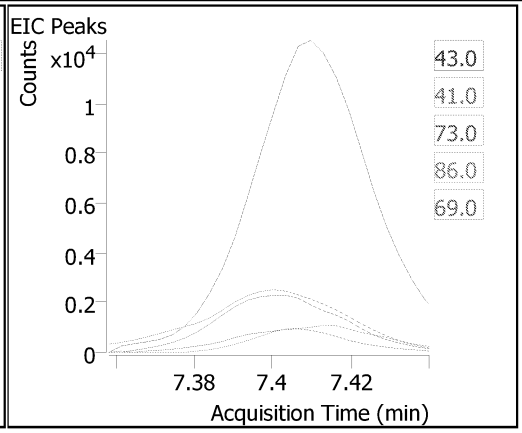
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.4065 | Isobutyl acetate | 69397.5 | 76.7 | 110-19-0 | C6H12O2 | 0.2802 |

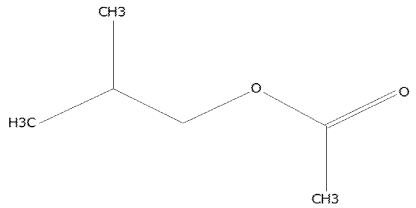


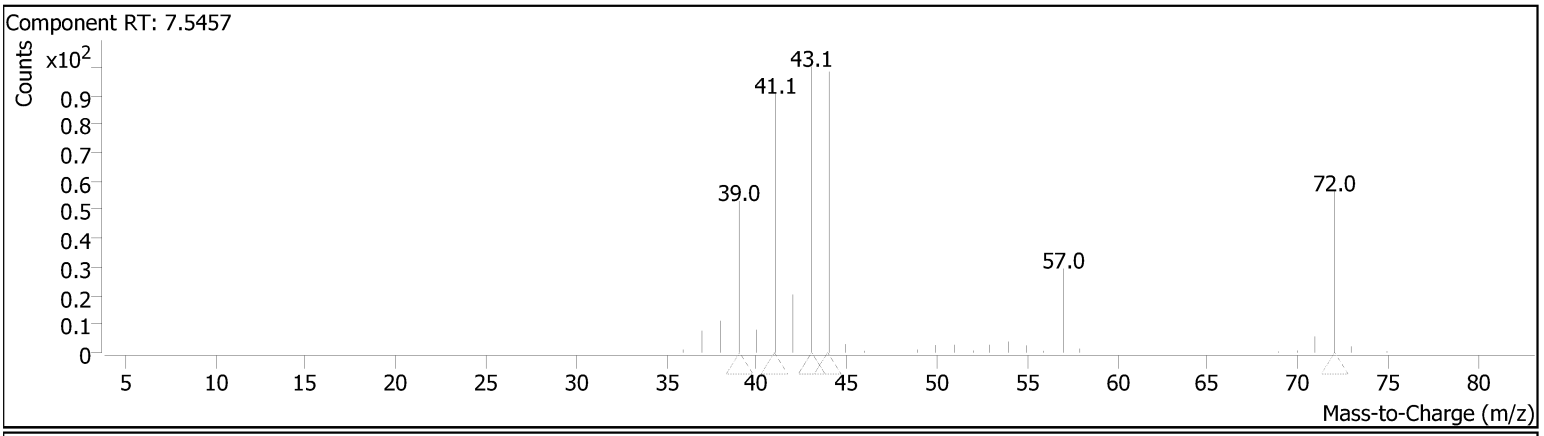



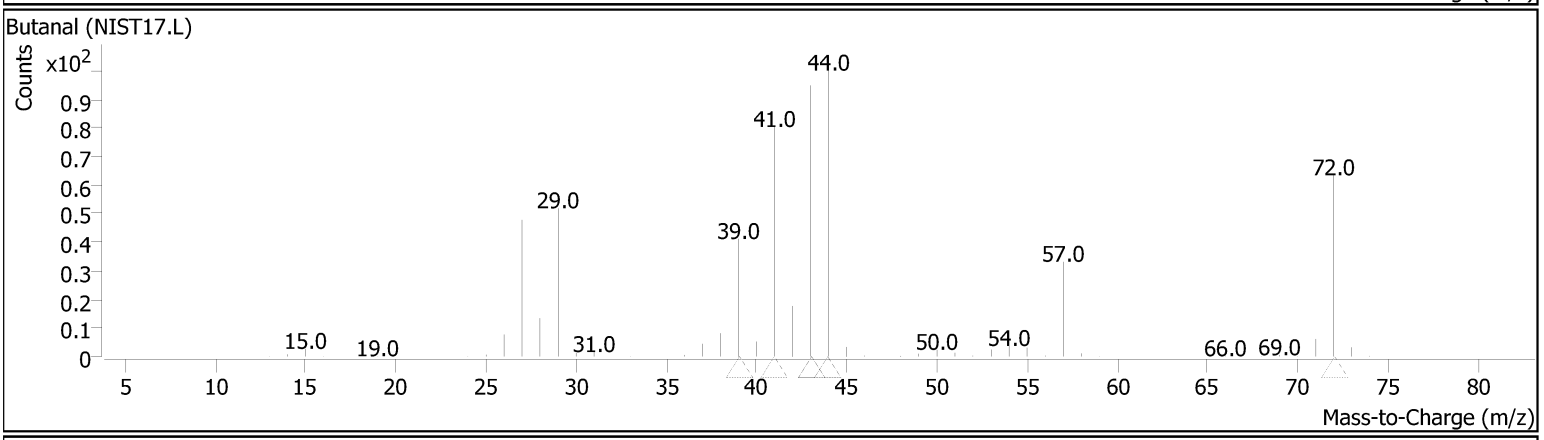



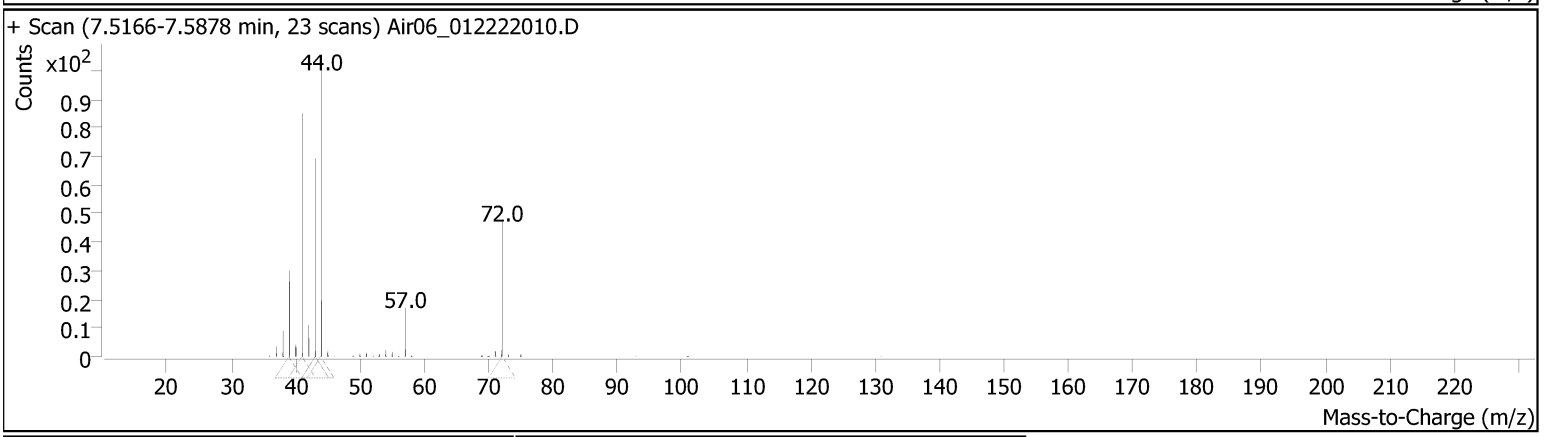



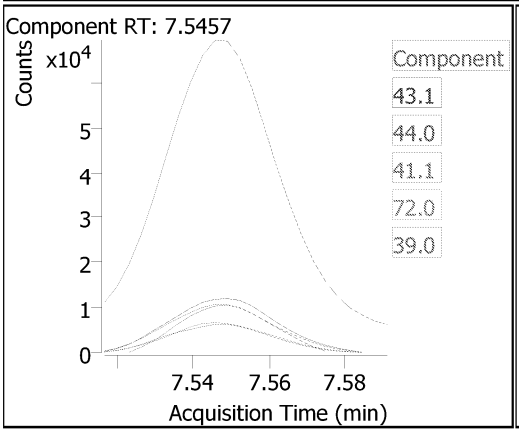



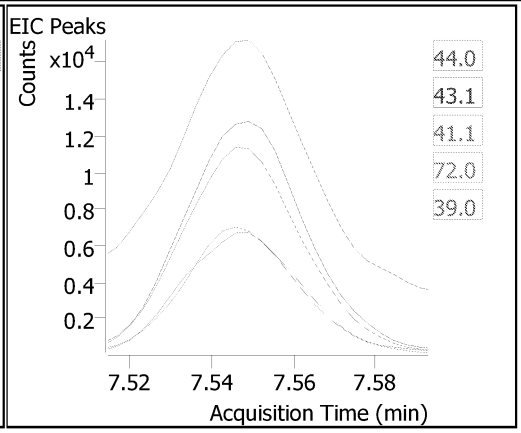
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.5457 | Butanal | 123119.2 | 98.7 | 123-72-8 | C4H8O | 0.497 |

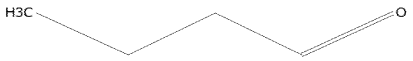


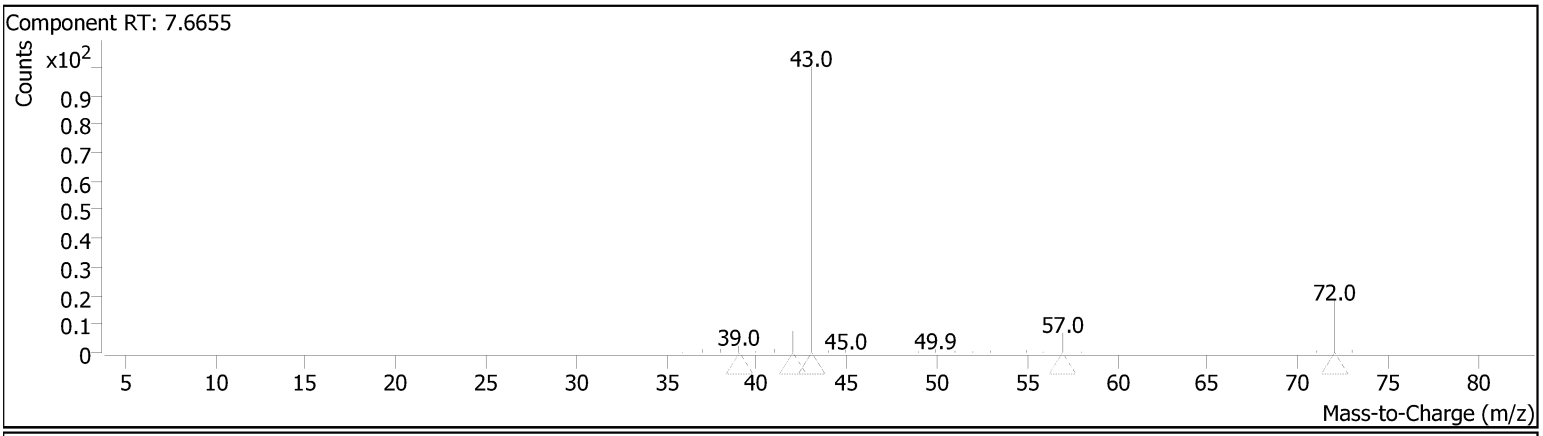



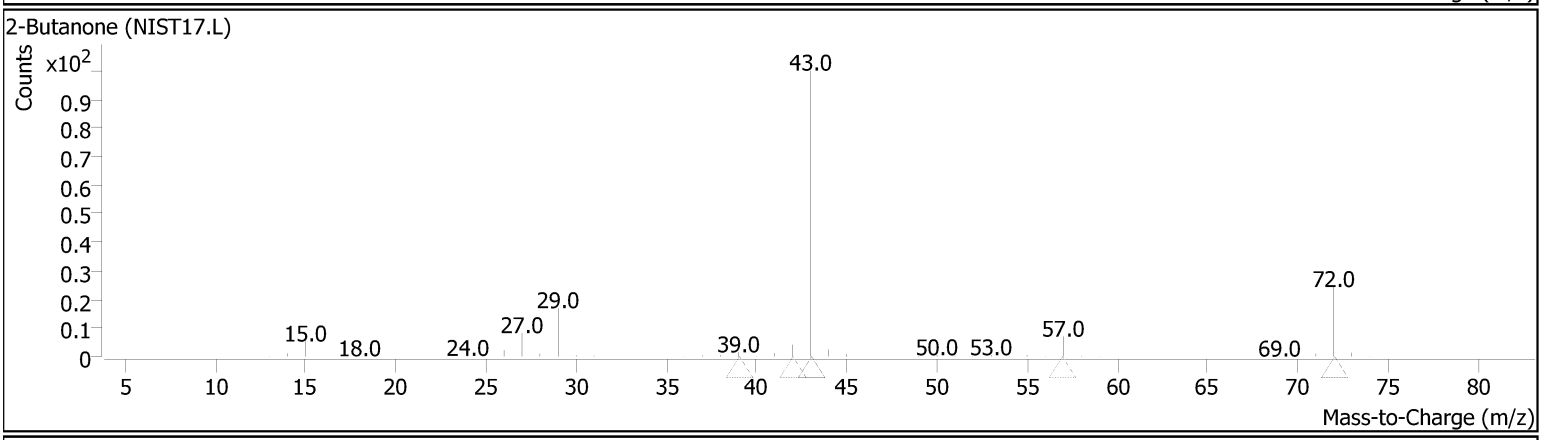



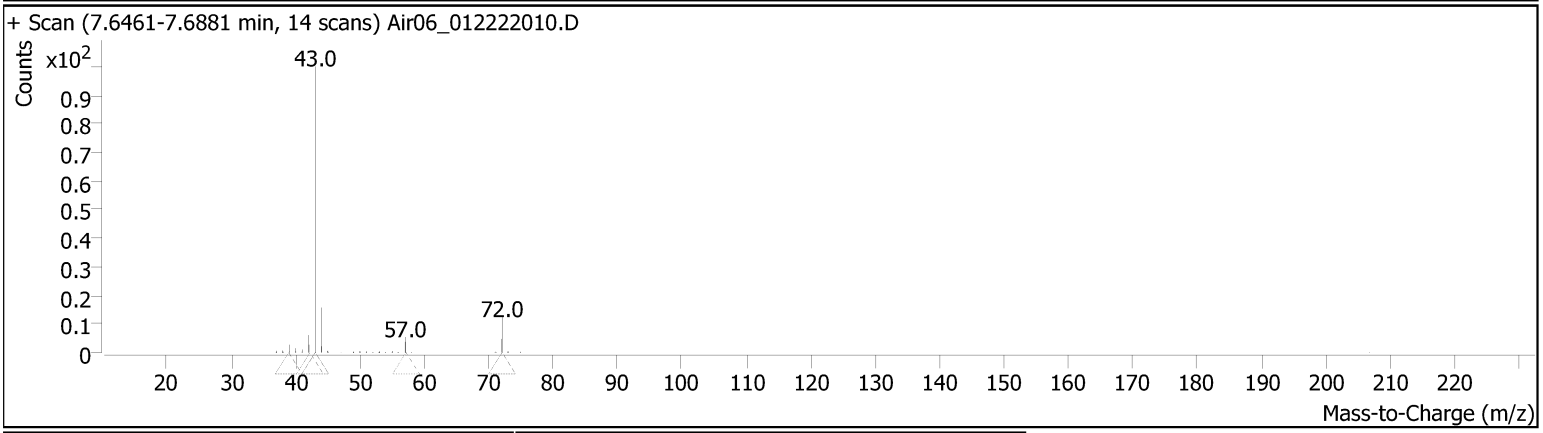



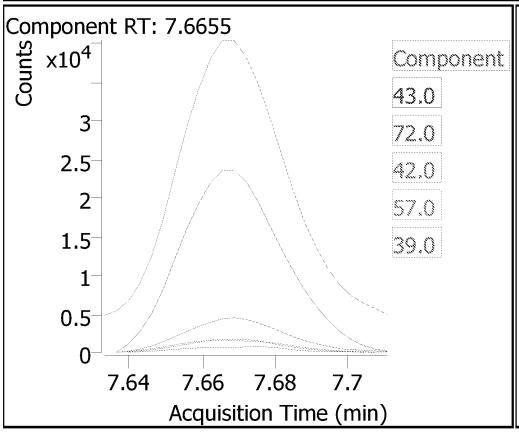



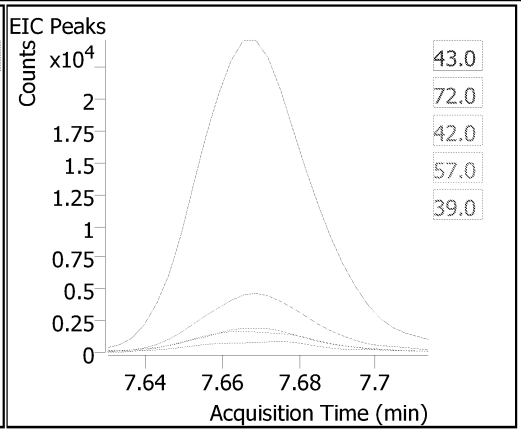
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.6655 | 2-Butanone | 72517.6 | 97.7 | 78-93-3 | C4H8O | 0.2927 |

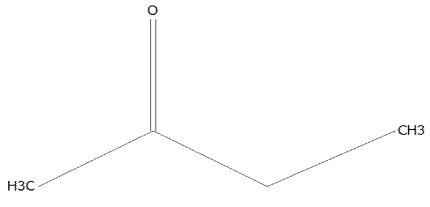


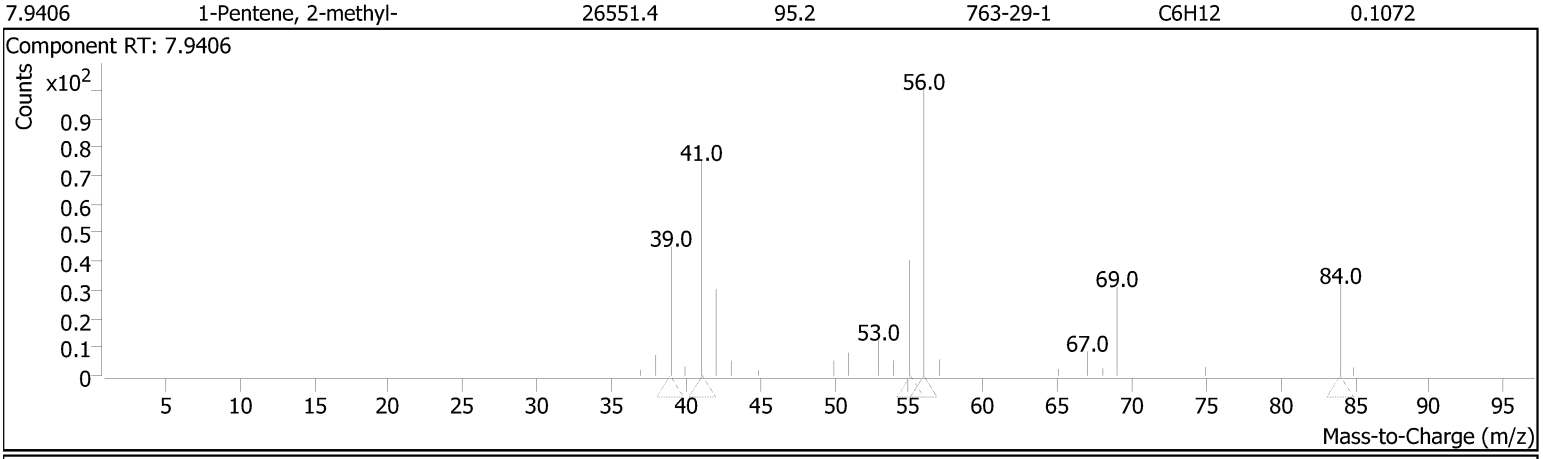



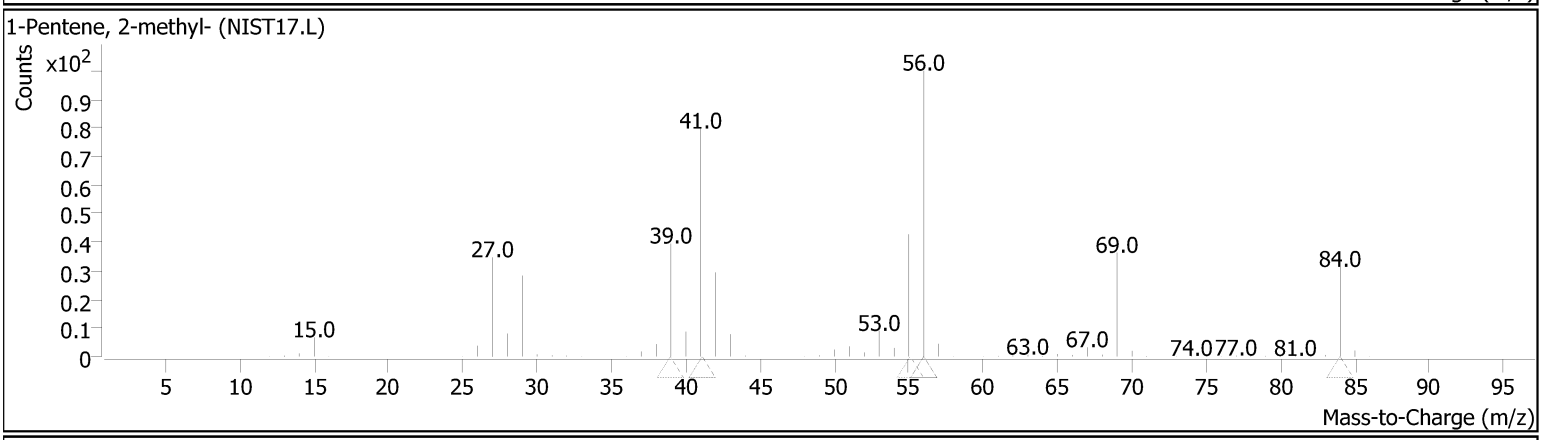



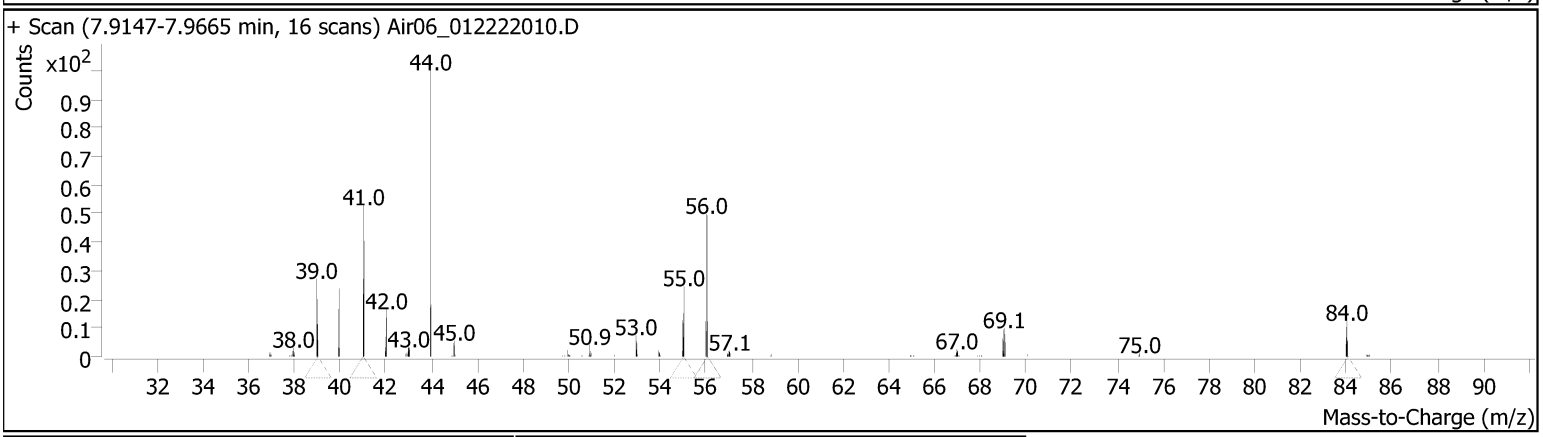



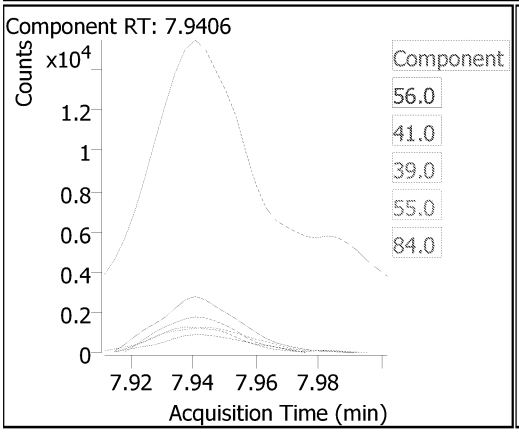



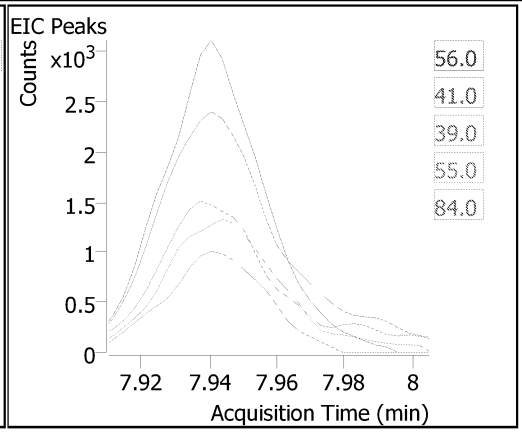
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.9406 | 1-Pentene, 2-methyl- | 26551.4 | 95.2 | 763-29-1 | C6H12 | 0.1072 |

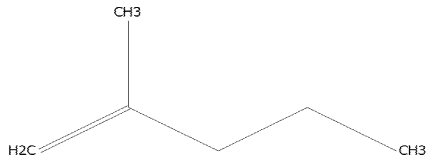


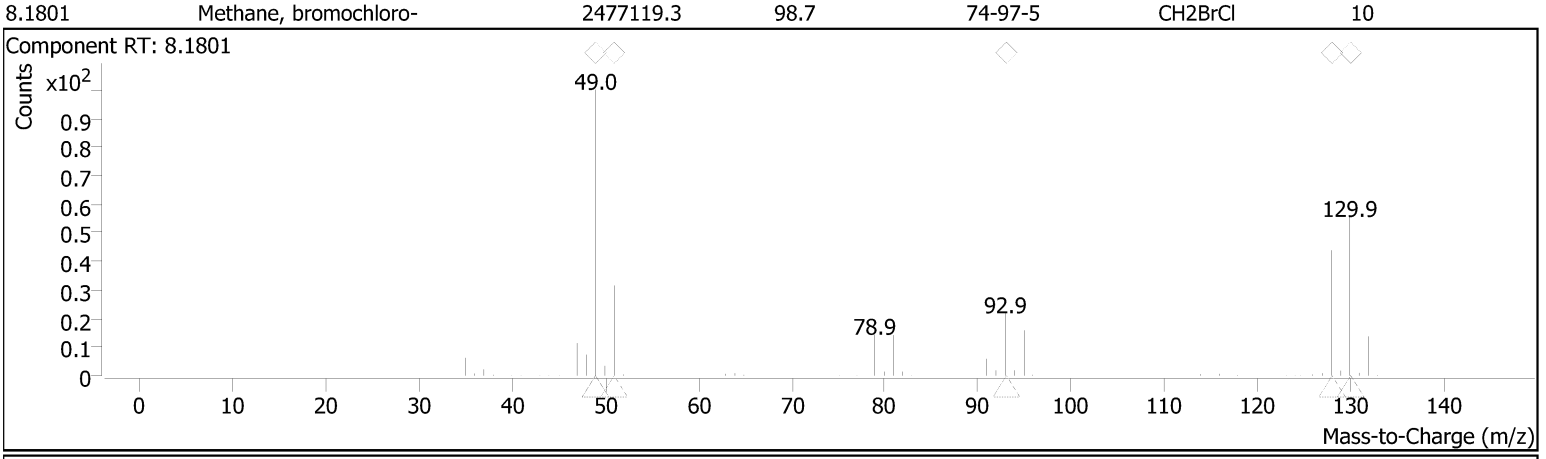



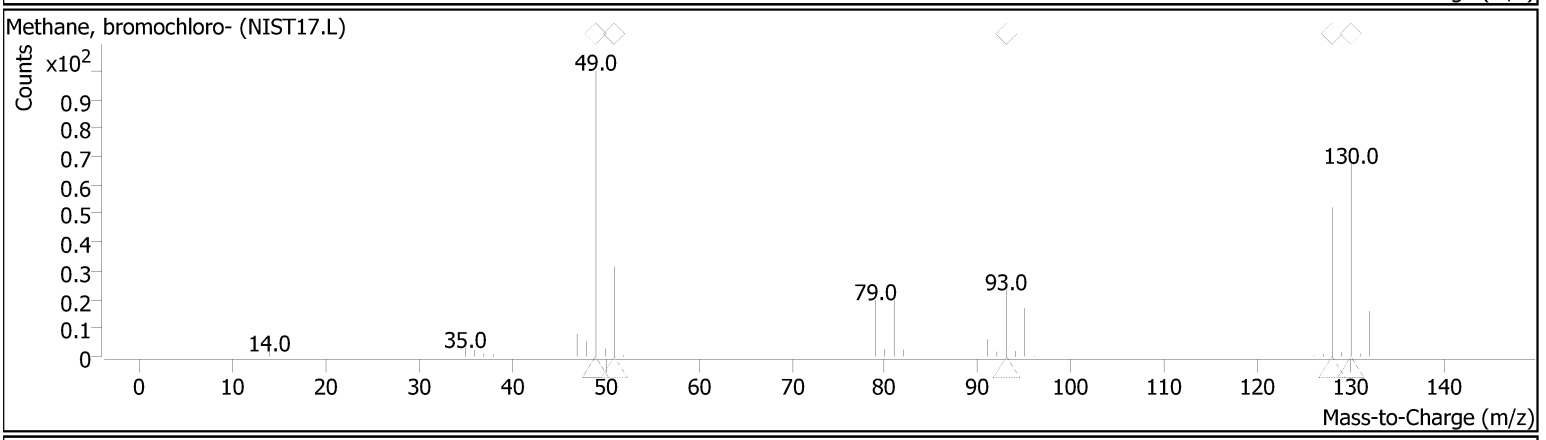



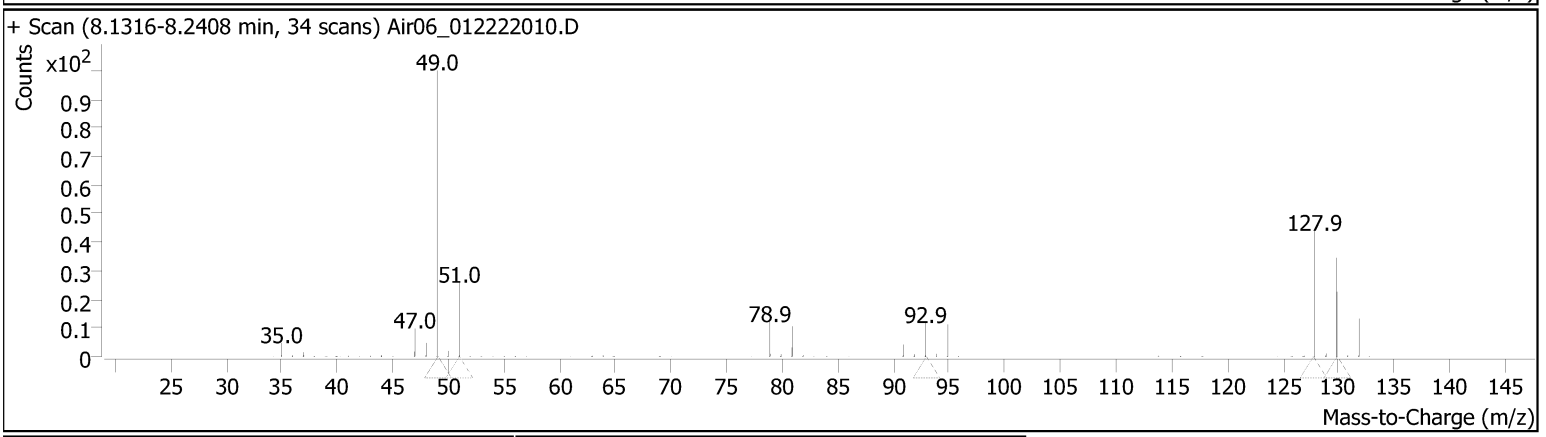



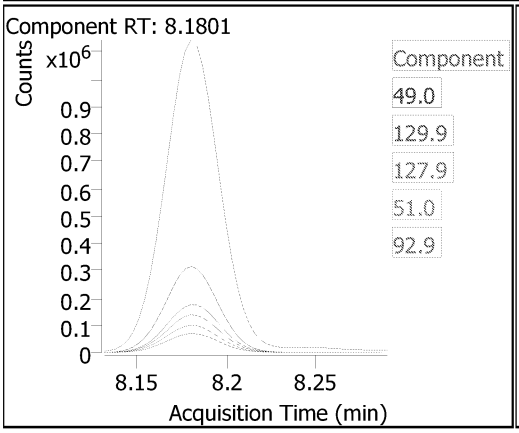



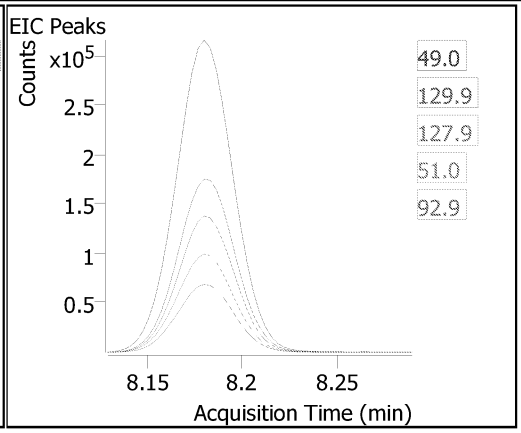
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.1801 | Methane, bromochloro- | 2477119.3 | 98.7 | 74-97-5 | CH2BrCl | 10 |

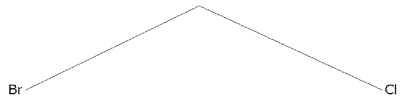


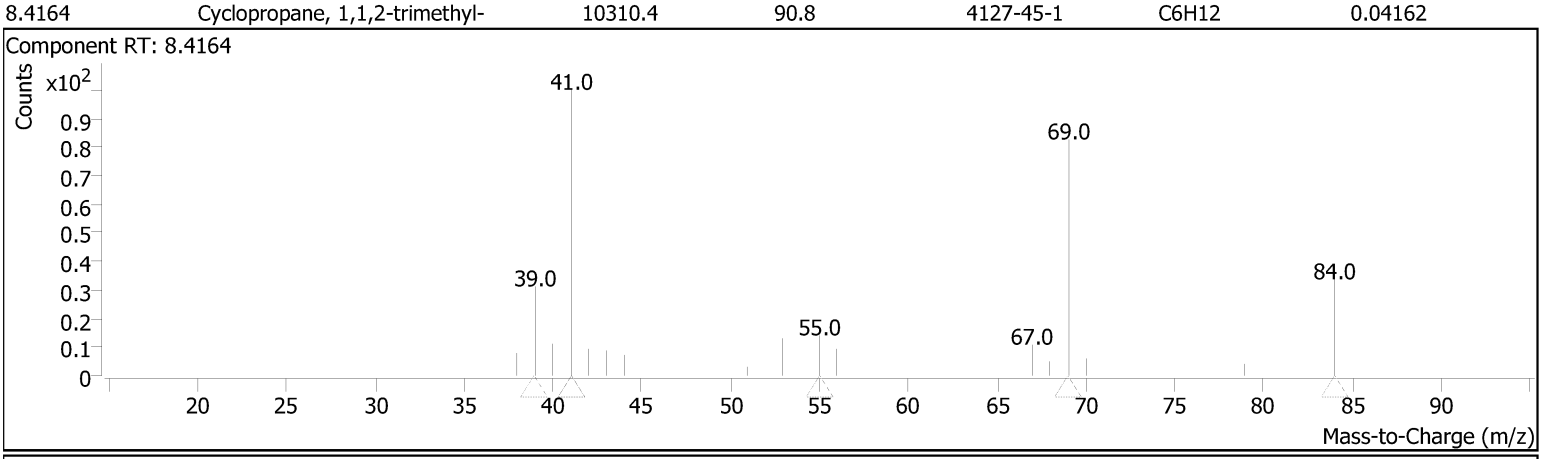



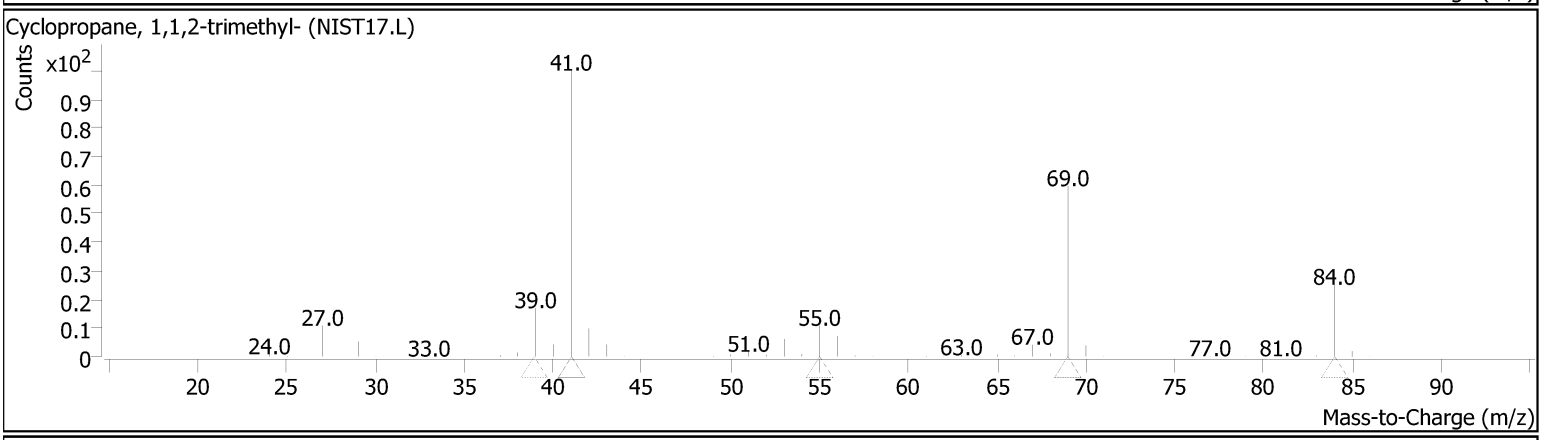



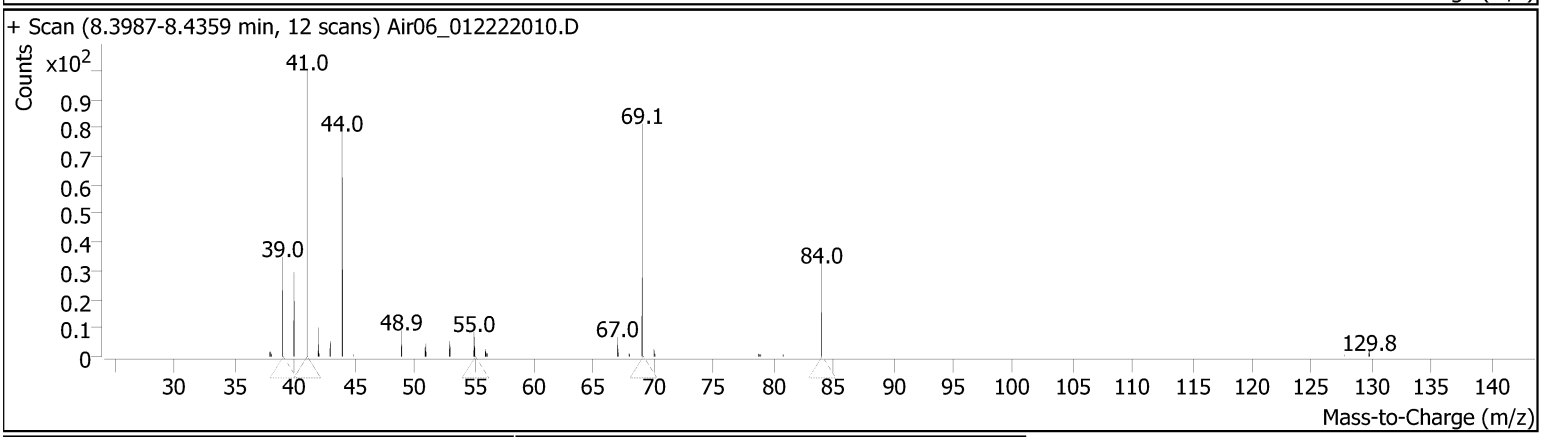



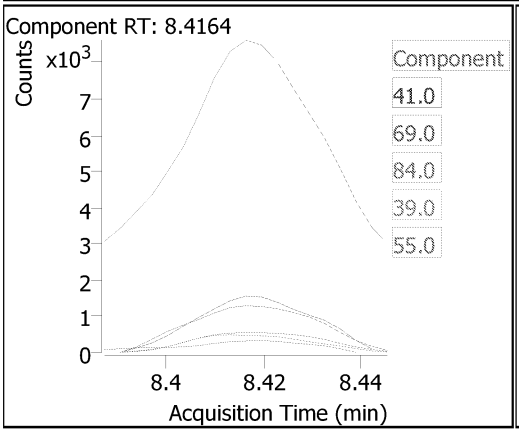



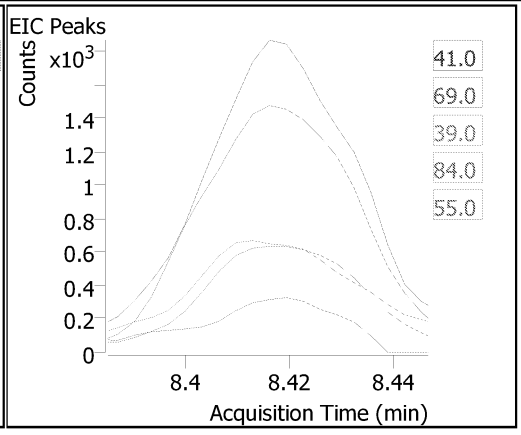
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.4164 | Cyclopropane, 1,1,2-trimethyl- | 10310.4 | 90.8 | 4127-45-1 | C6H12 | 0.04162 |

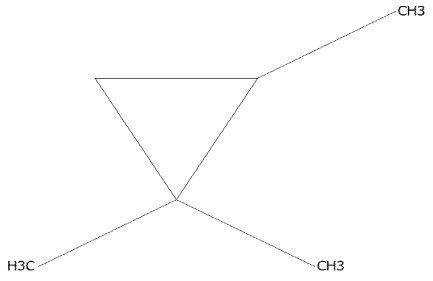


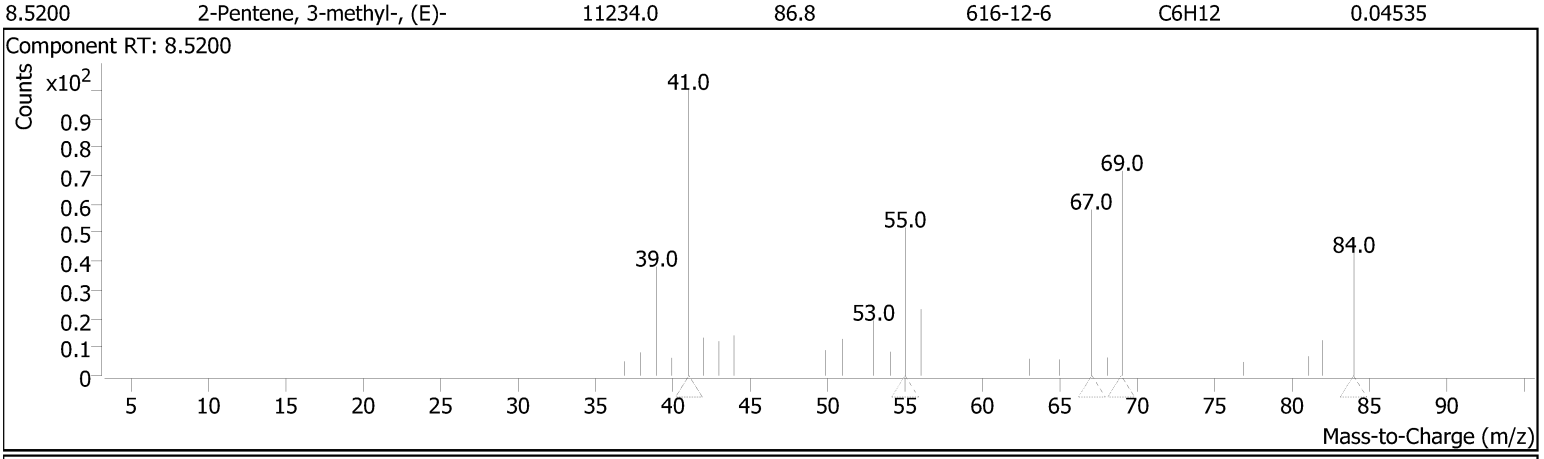



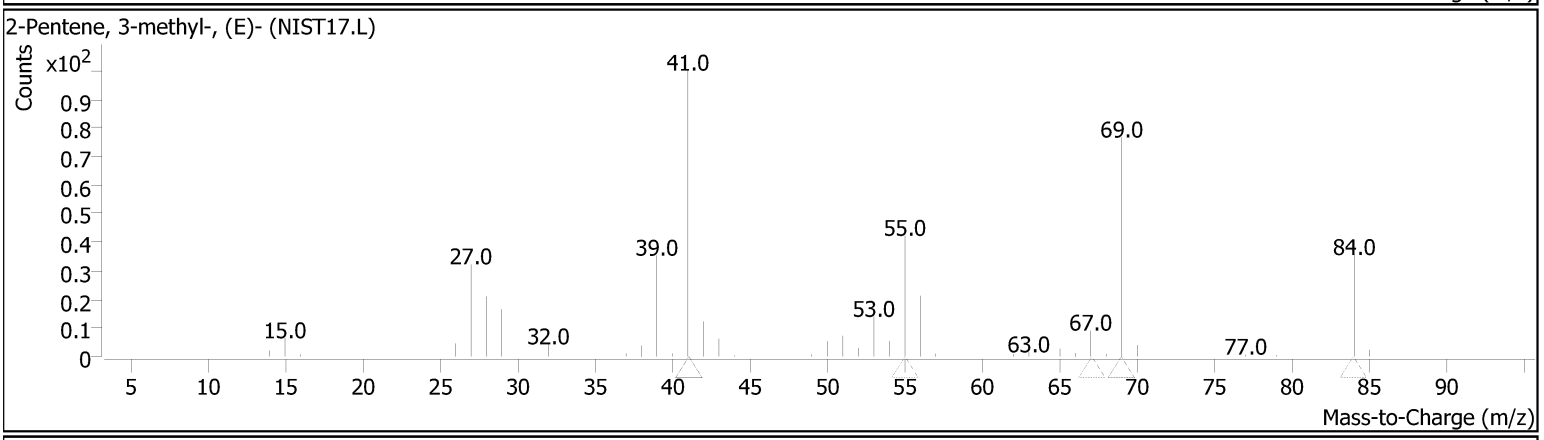



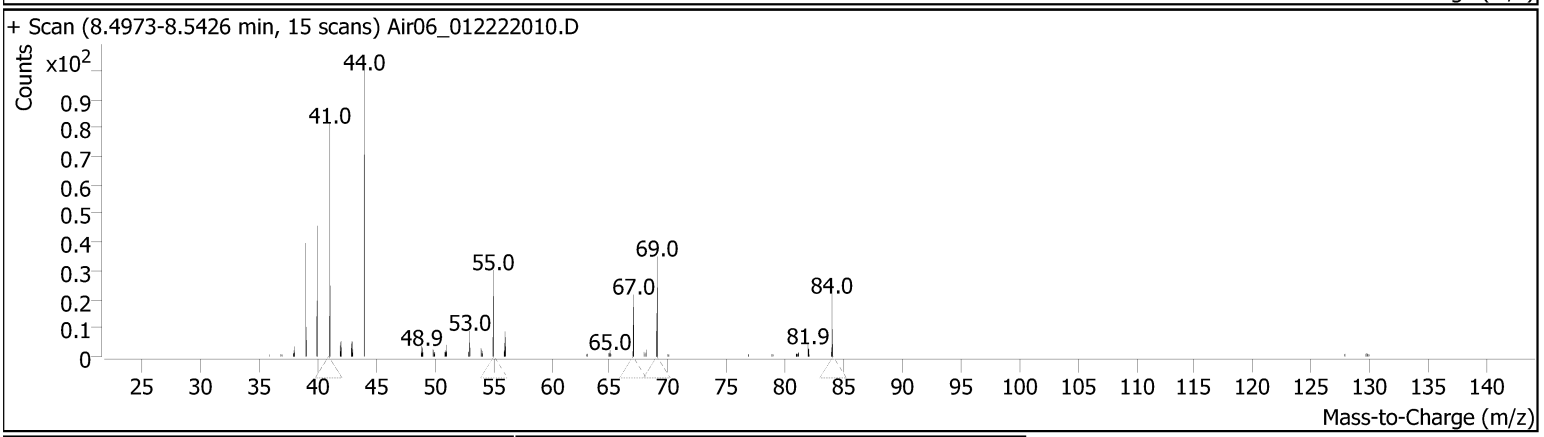



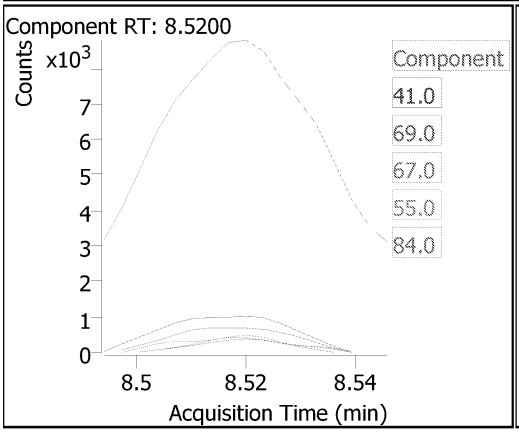



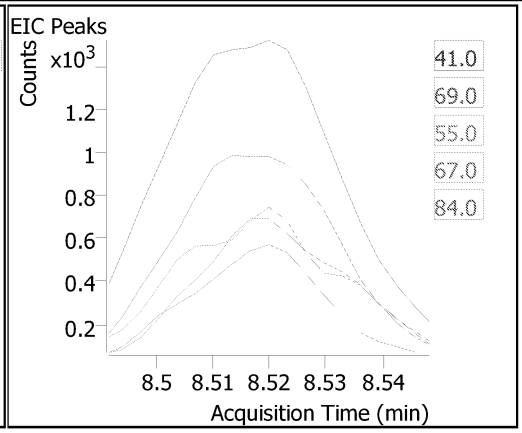
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.5200 | 2-Pentene, 3-methyl-, (E)- | 11234.0 | 86.8 | 616-12-6 | C6H12 | 0.04535 |

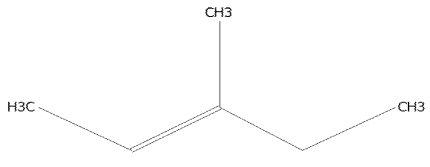


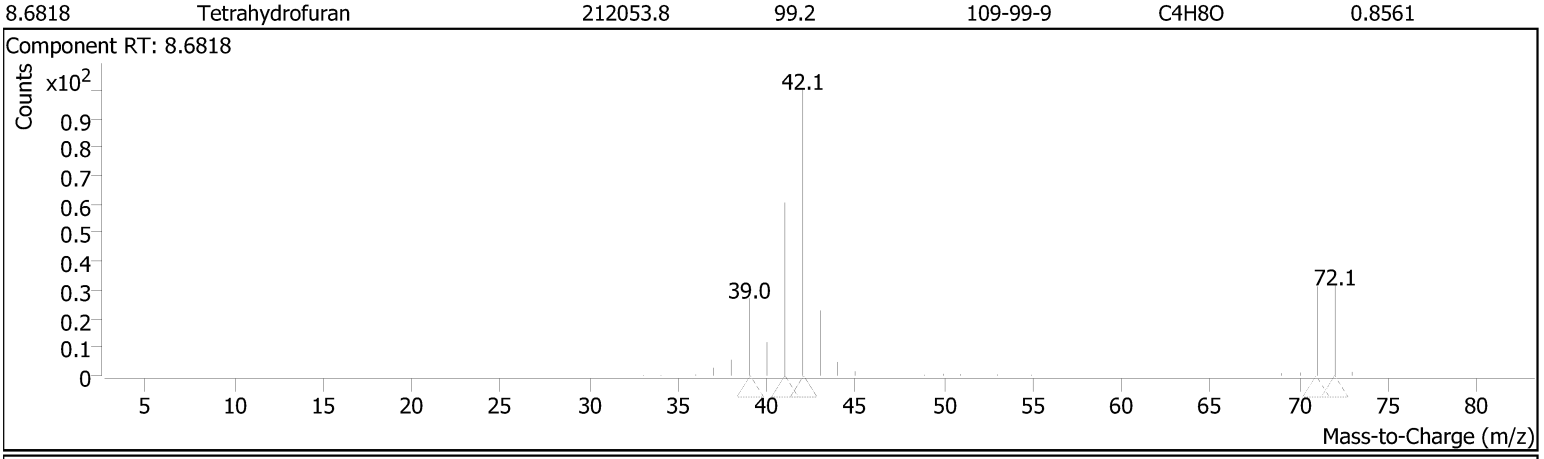



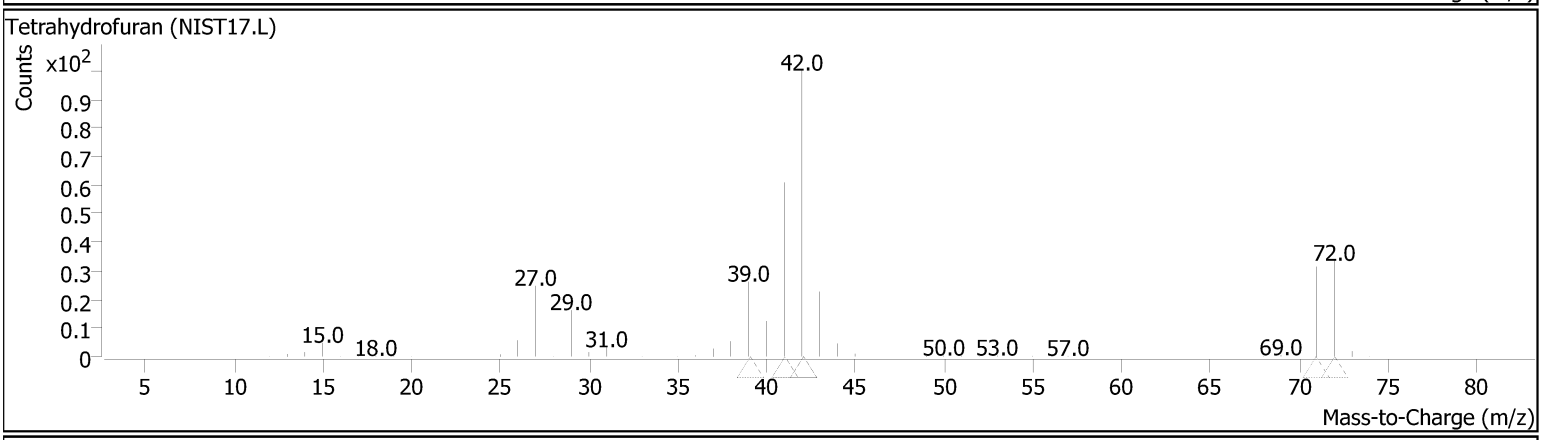



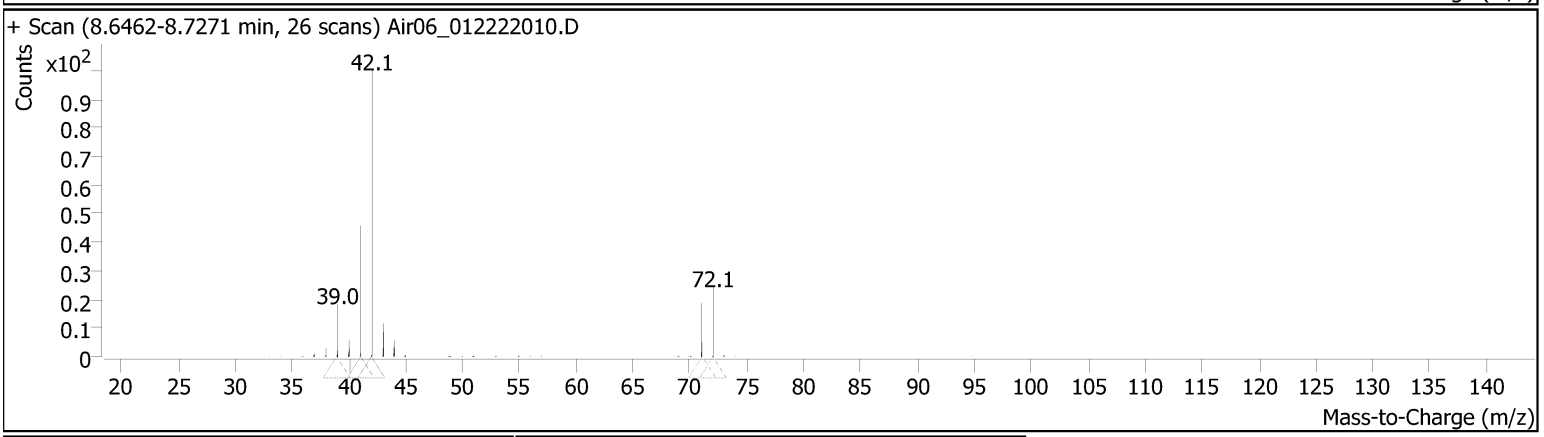



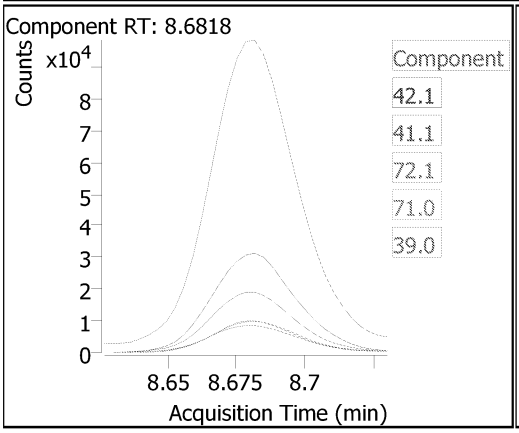



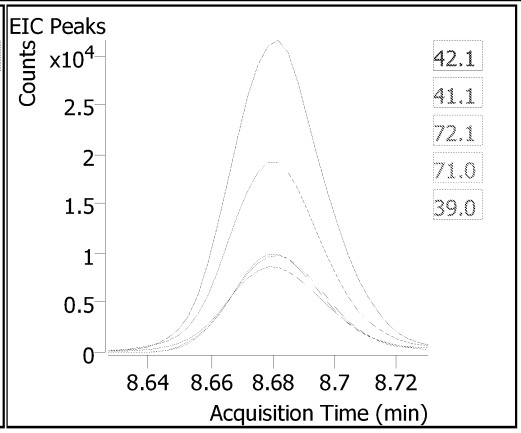
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.6818 | Tetrahydrofuran | 212053.8 | 99.2 | 109-99-9 | C4H8O | 0.8561 |

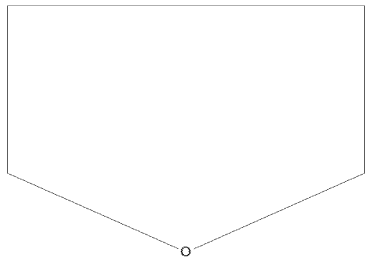


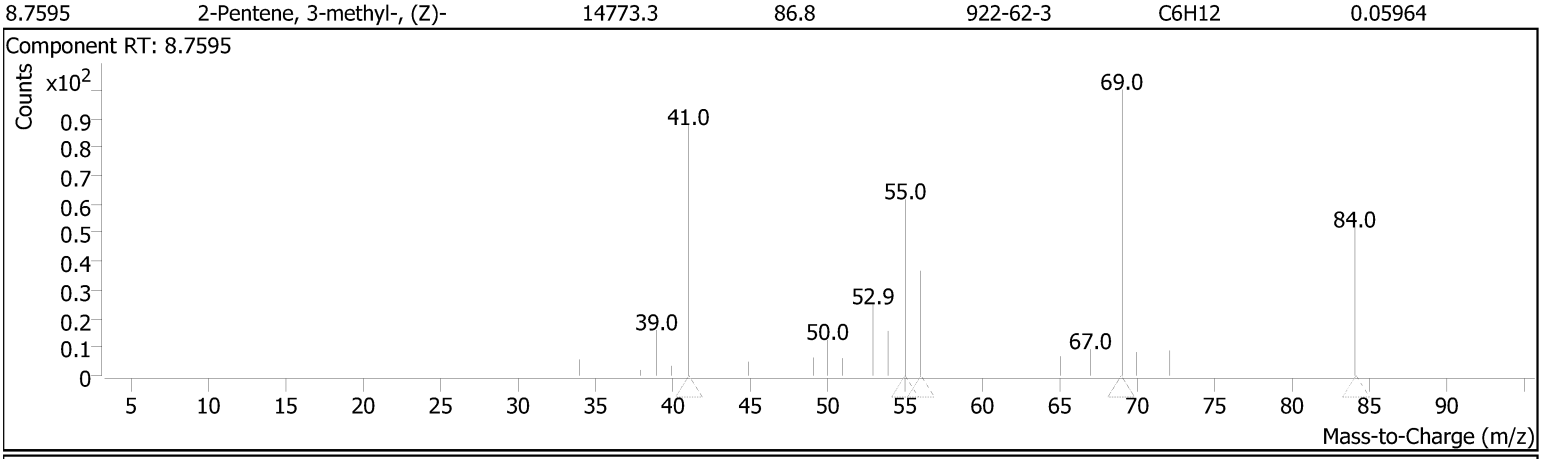



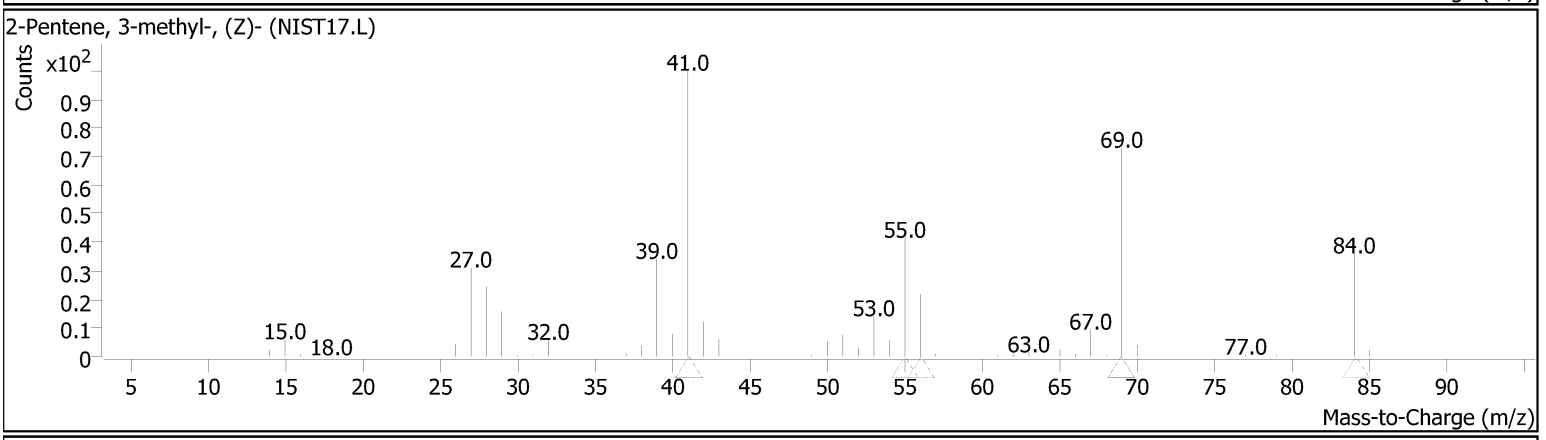



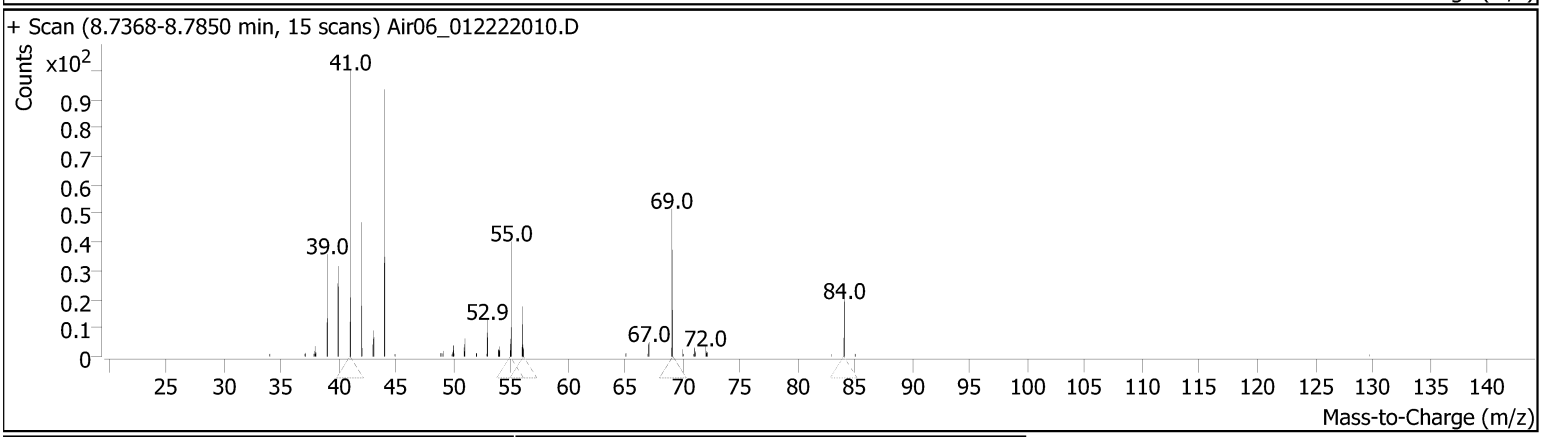



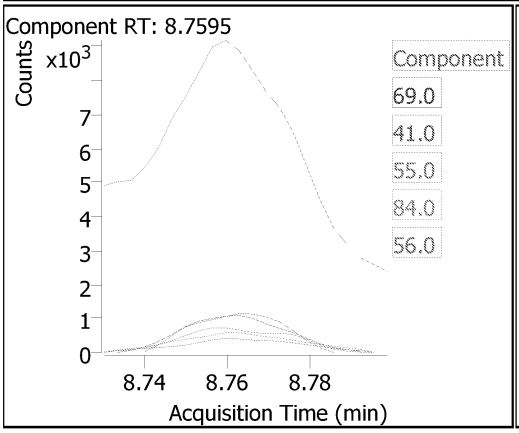



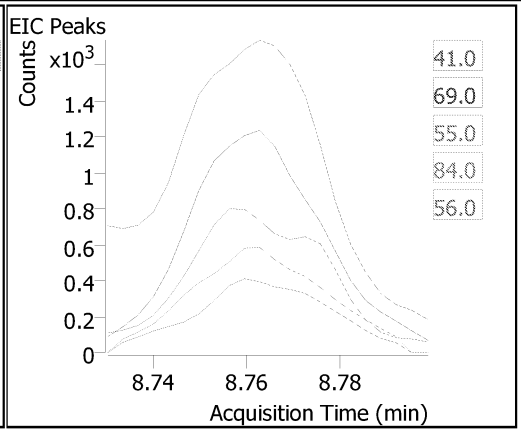
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.7595 | 2-Pentene, 3-methyl-, (Z)- | 14773.3 | 86.8 | 922-62-3 | C6H12 | 0.05964 |

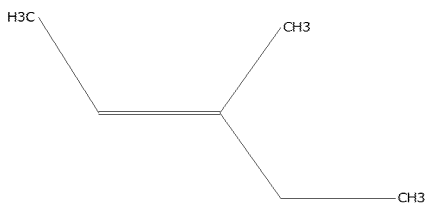


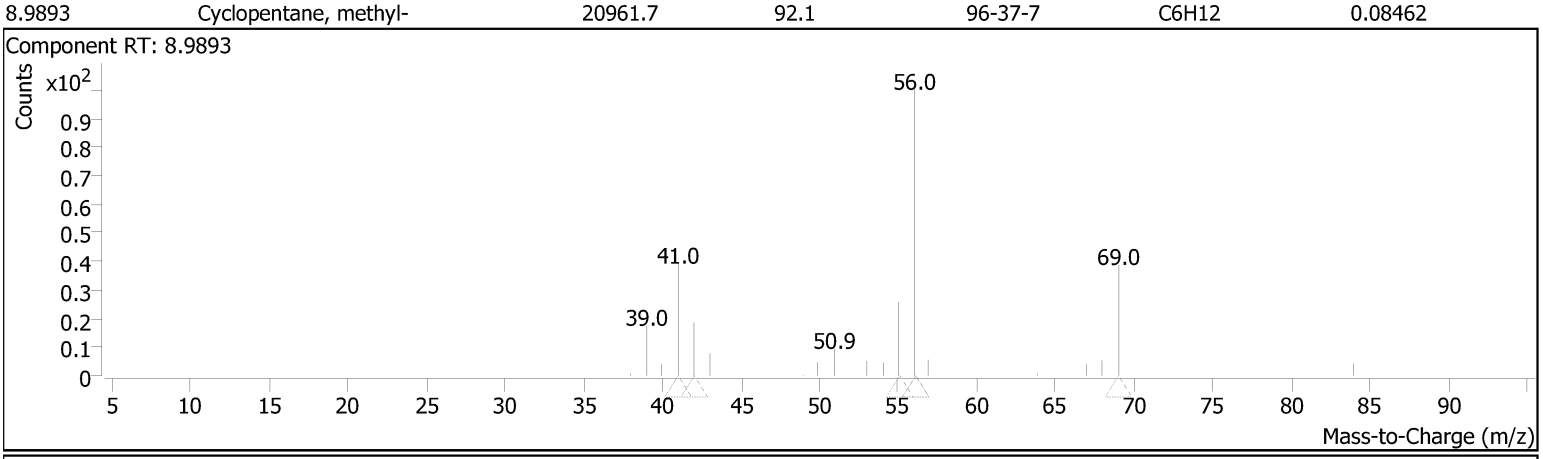



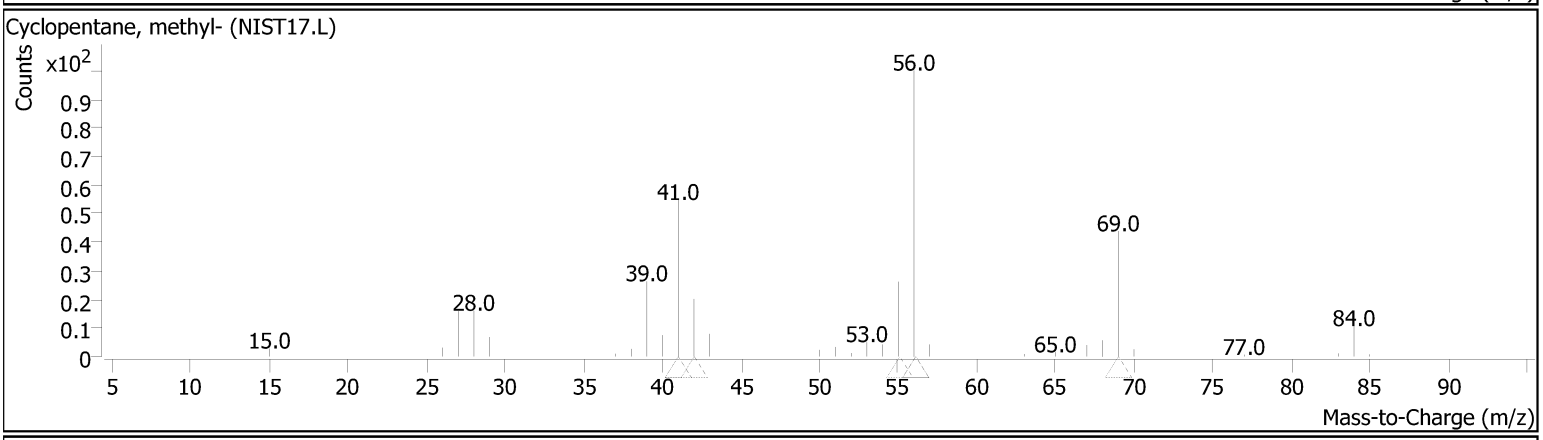



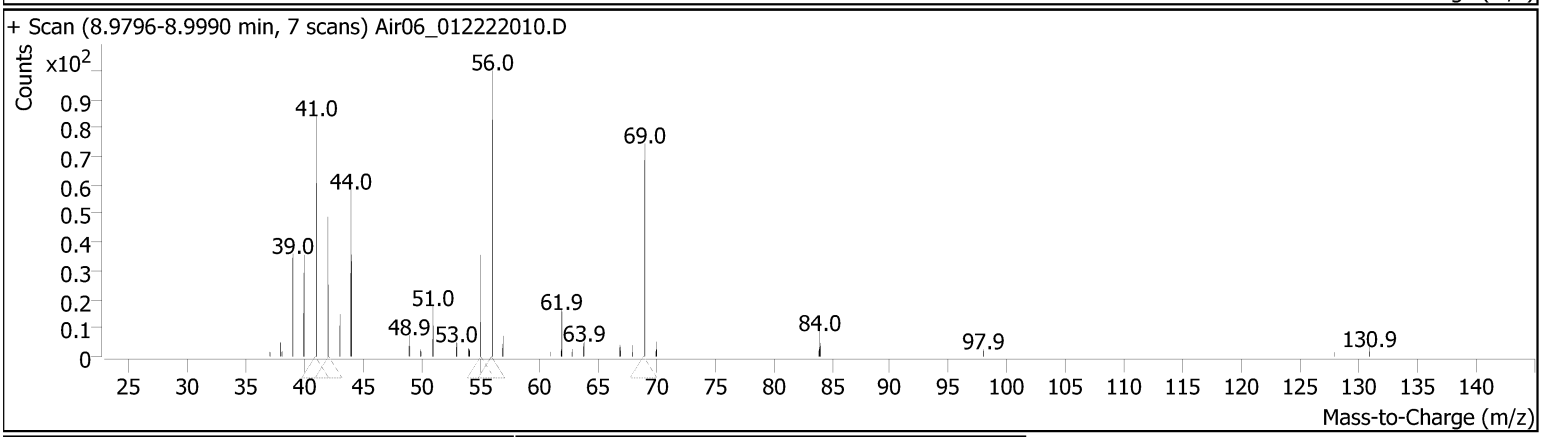



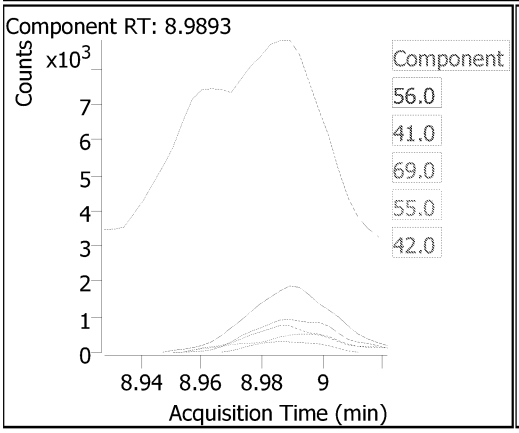



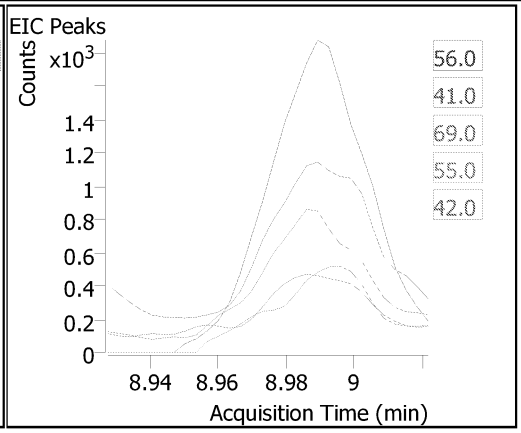
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.9893 | Cyclopentane, methyl- | 20961.7 | 92.1 | 96-37-7 | C6H12 | 0.08462 |

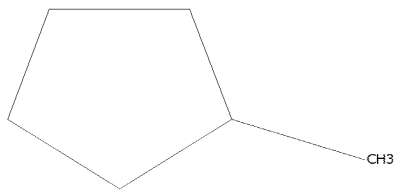


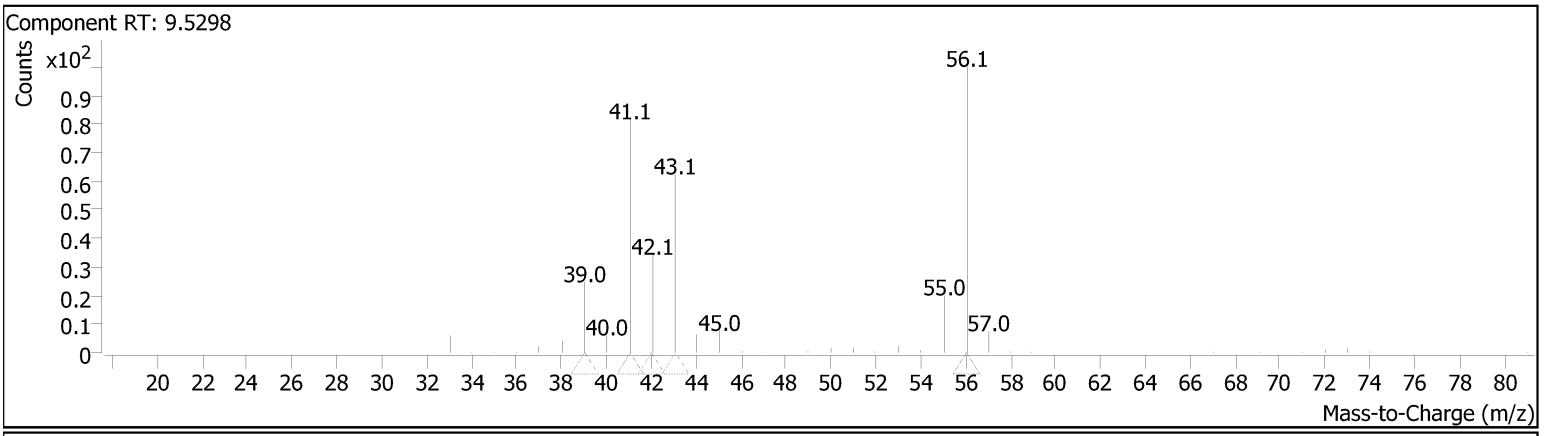



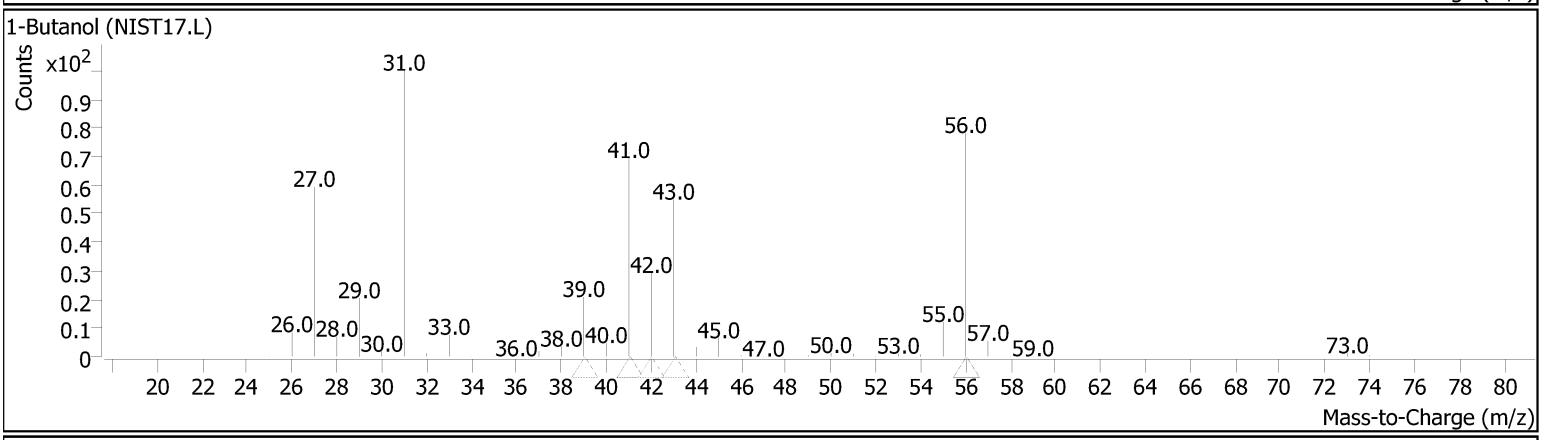



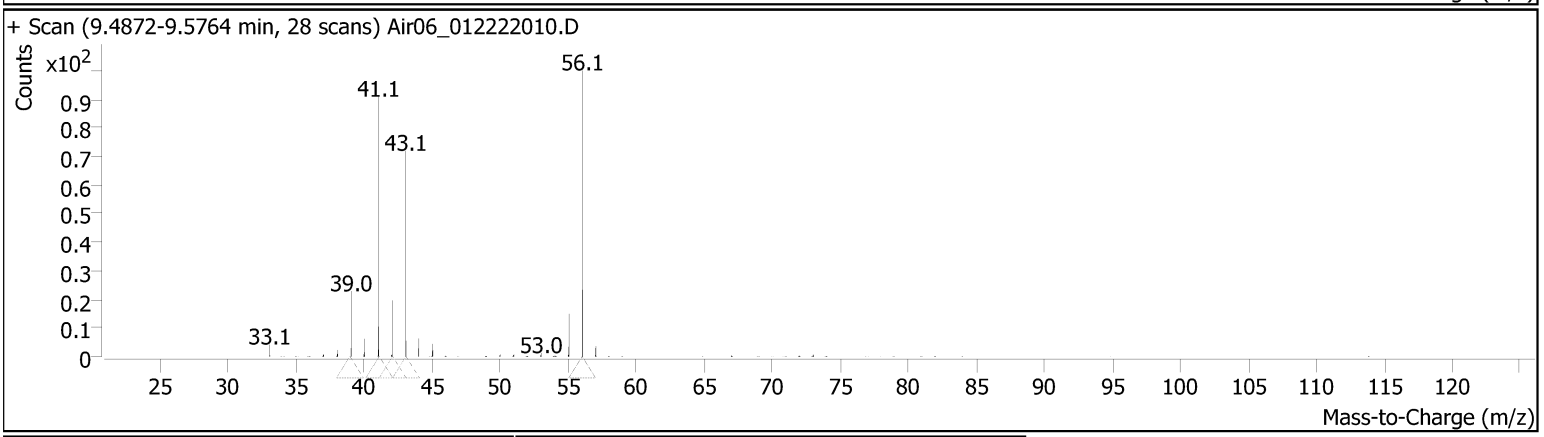



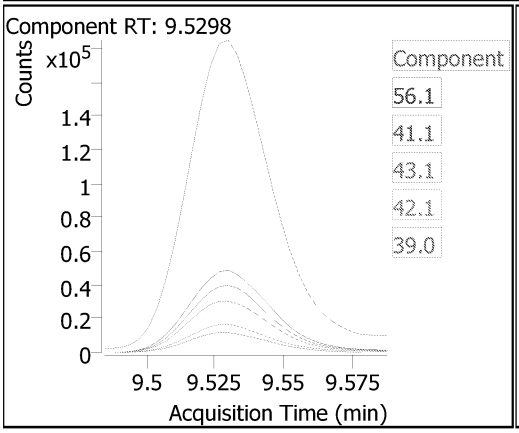



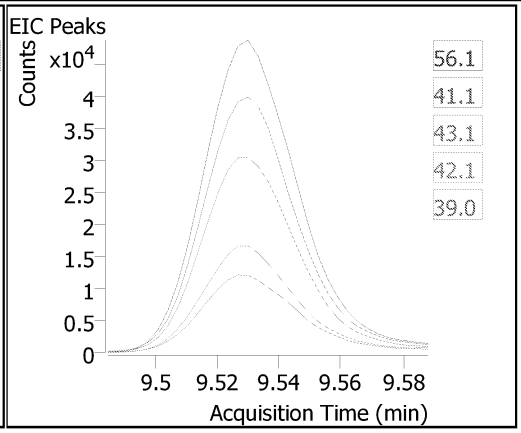
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.5298 | 1-Butanol | 394975.2 | 98.9 | 71-36-3 | C4H10O | 0.9898 |

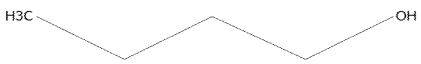


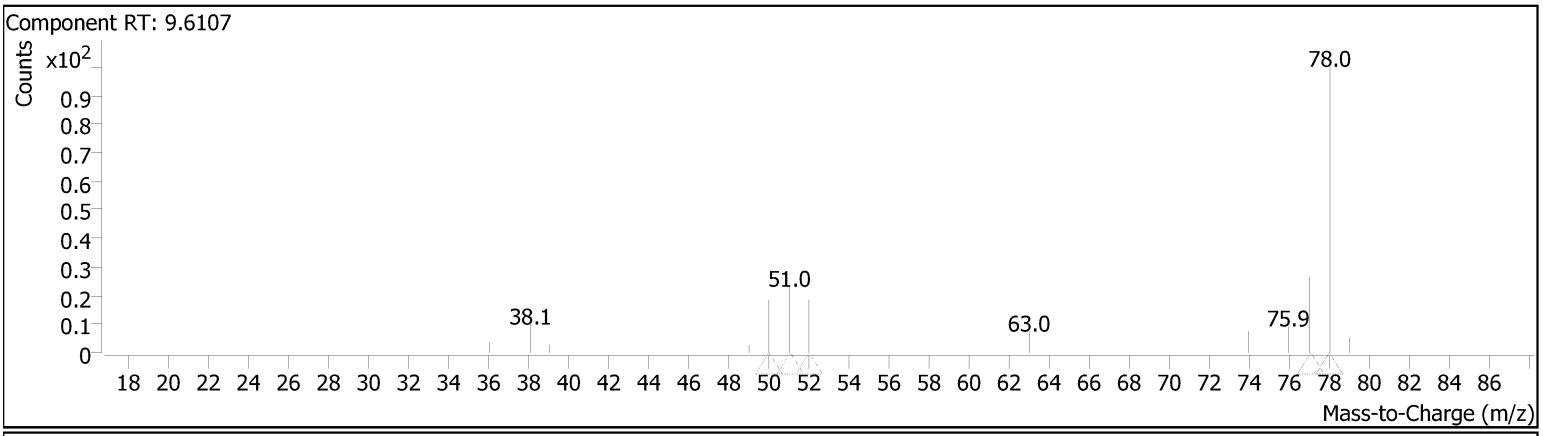



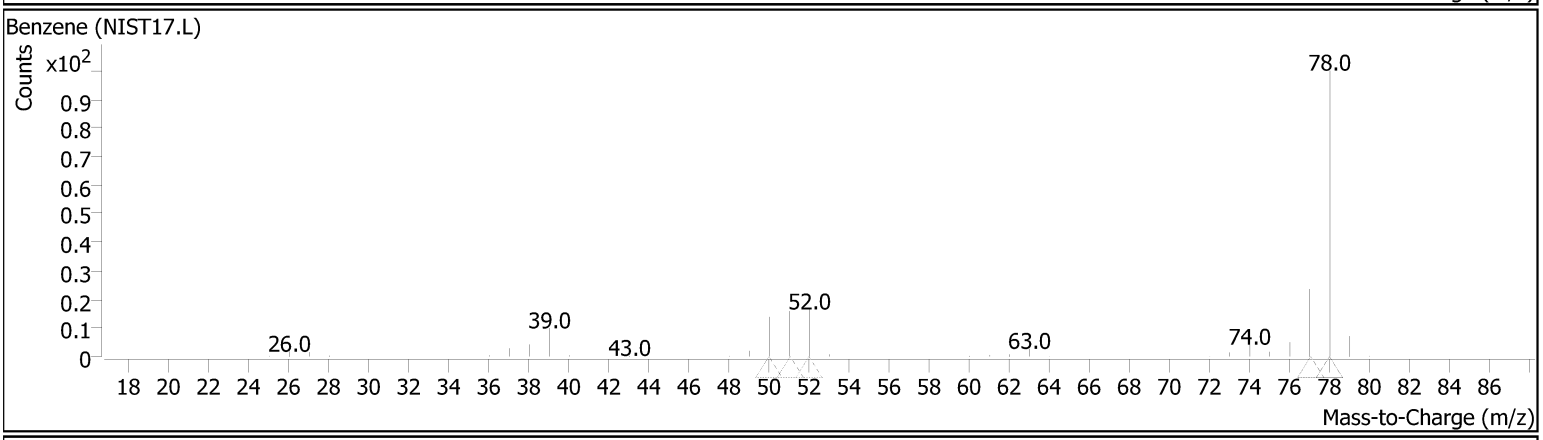



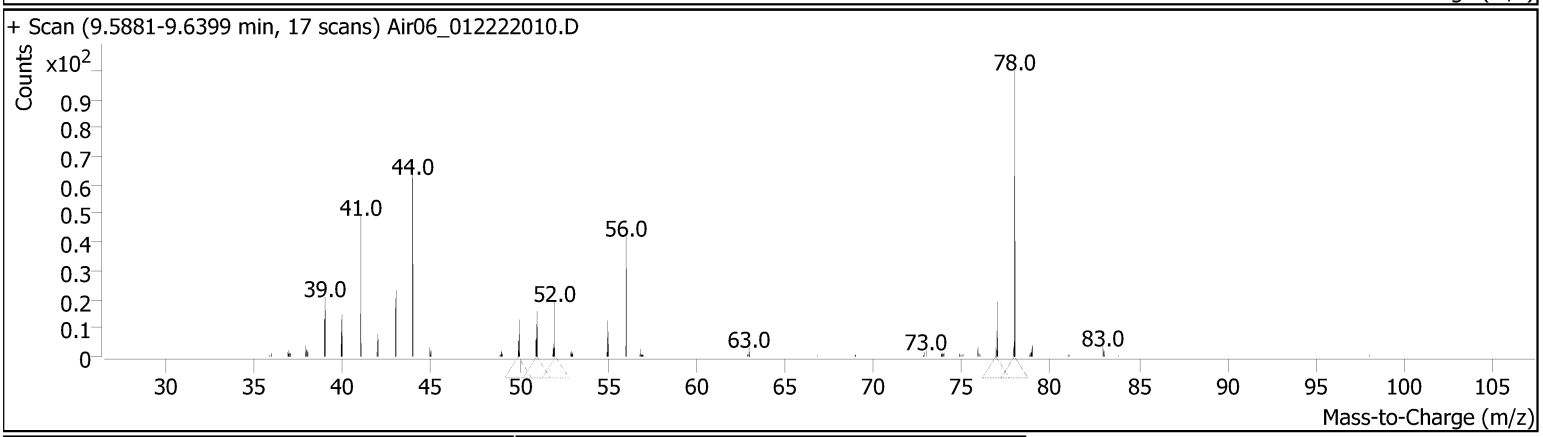



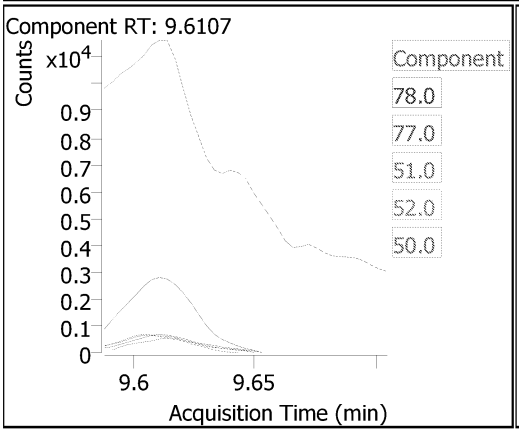



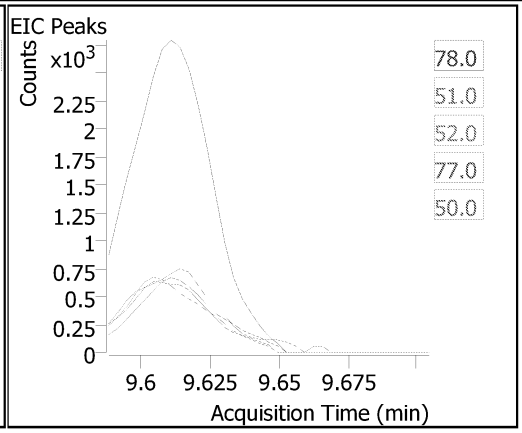
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.6107 | Benzene | 29909.8 | 93.3 | 71-43-2 | C6H6 | 0.07496 |

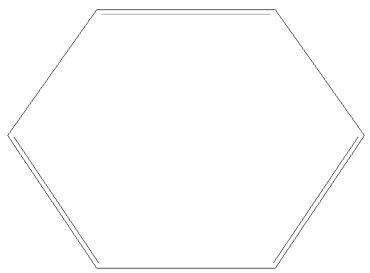


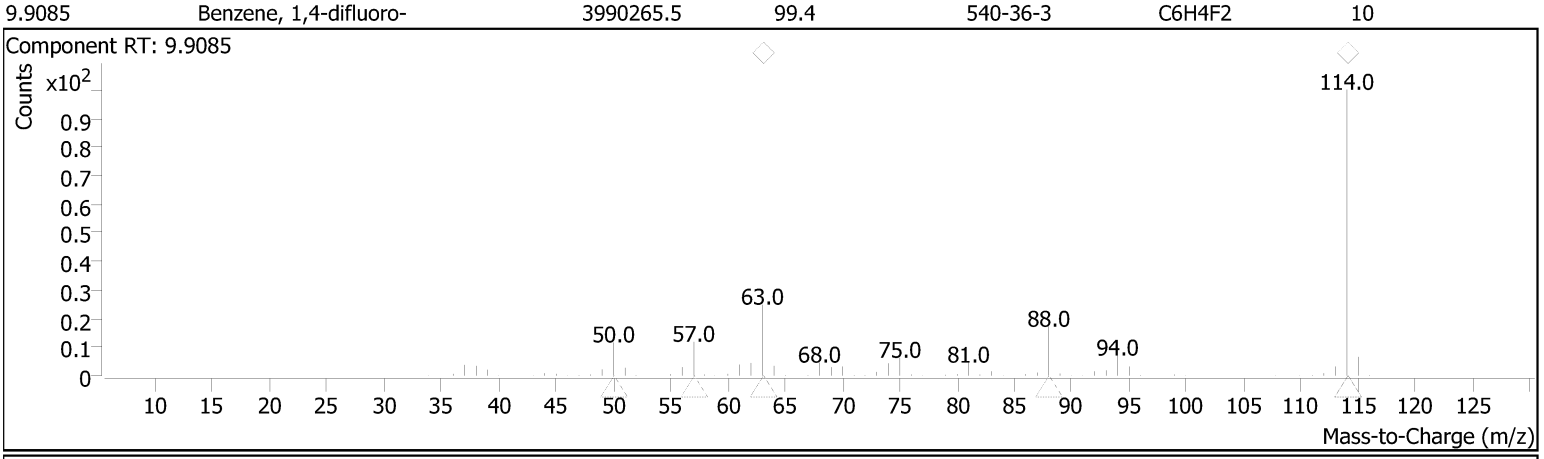



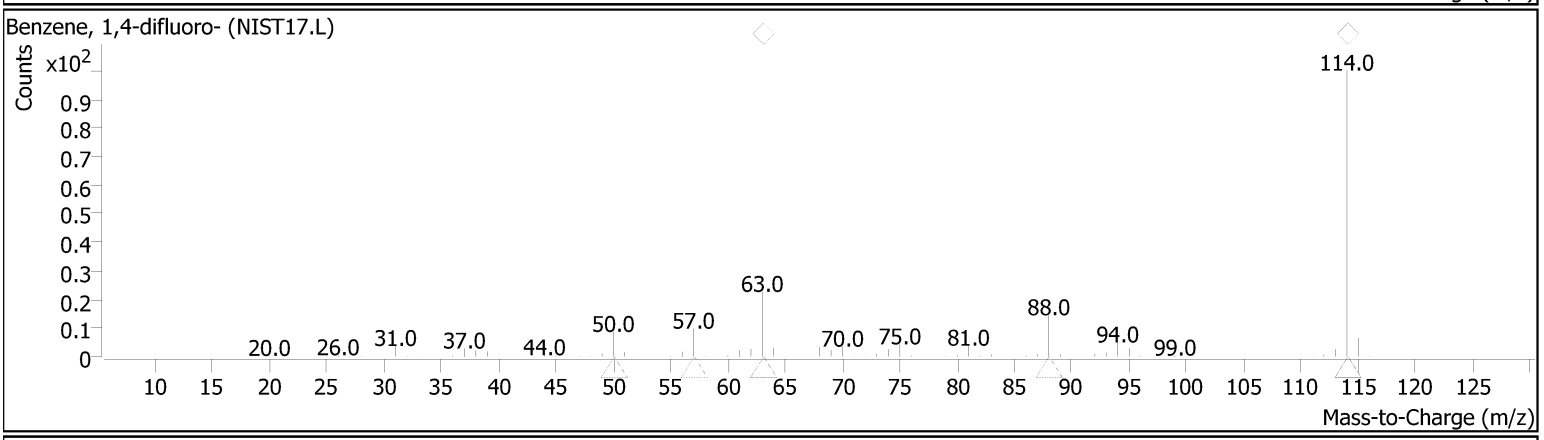



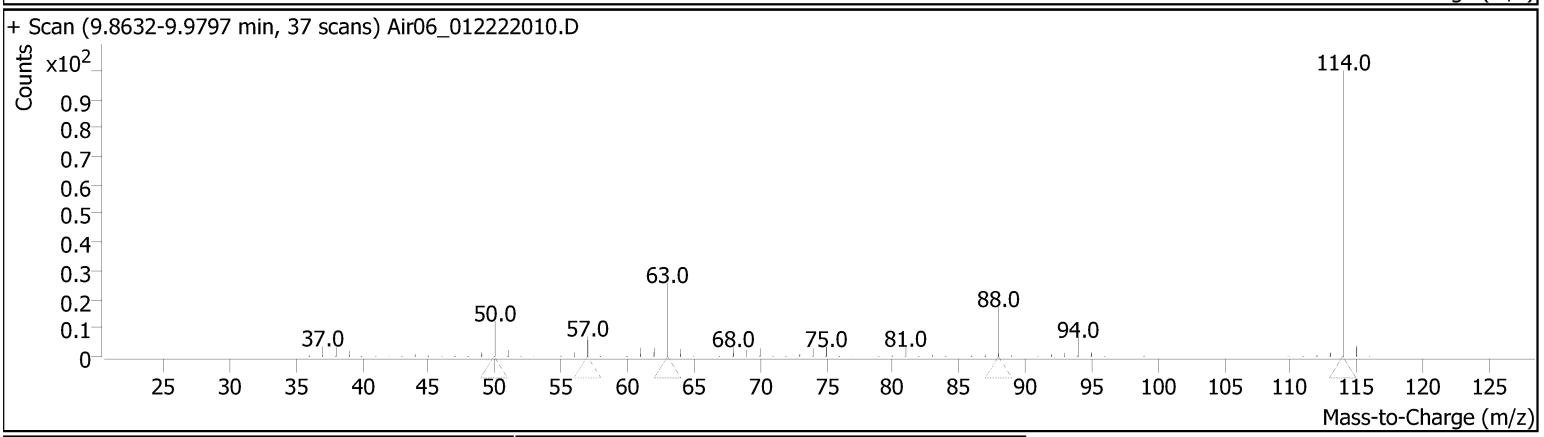



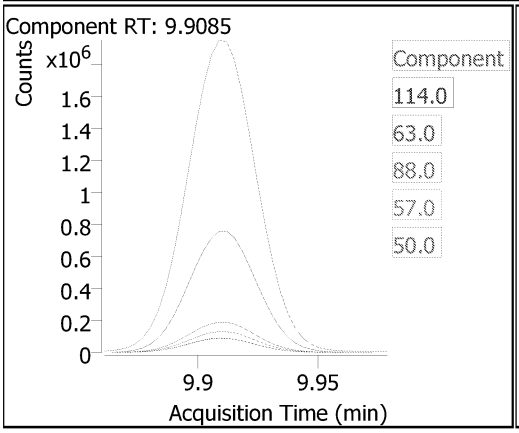



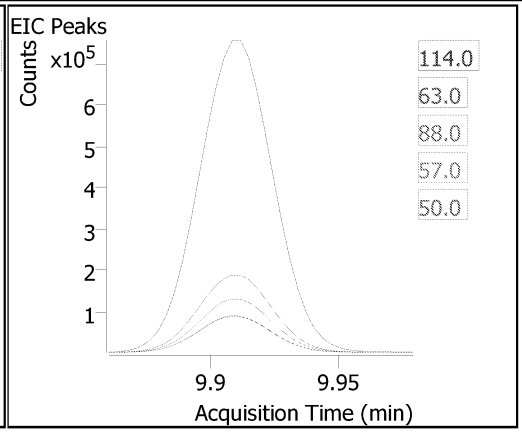
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.9085 | Benzene, 1,4-difluoro- | 3990265.5 | 99.4 | 540-36-3 | C6H4F2 | 10 |

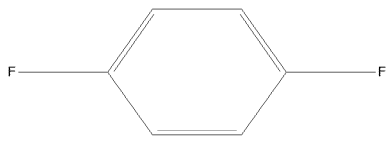


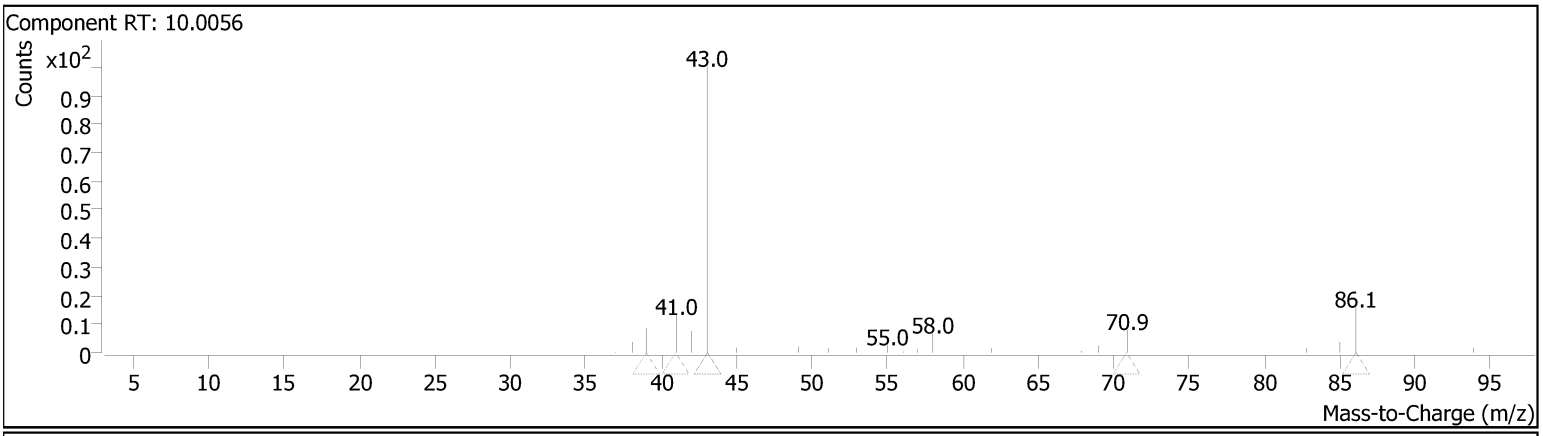



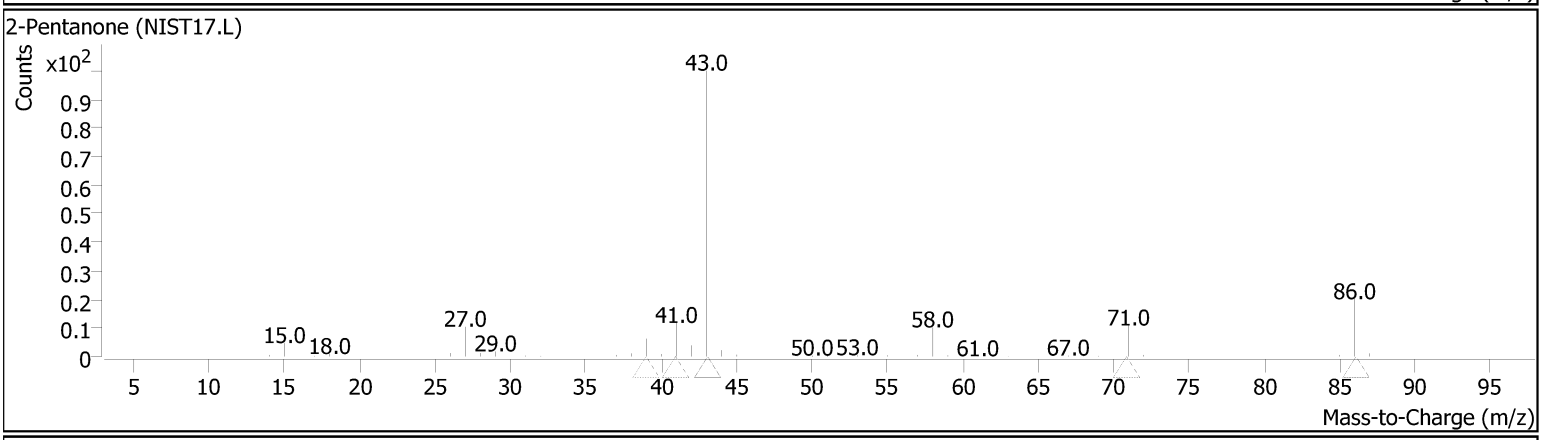



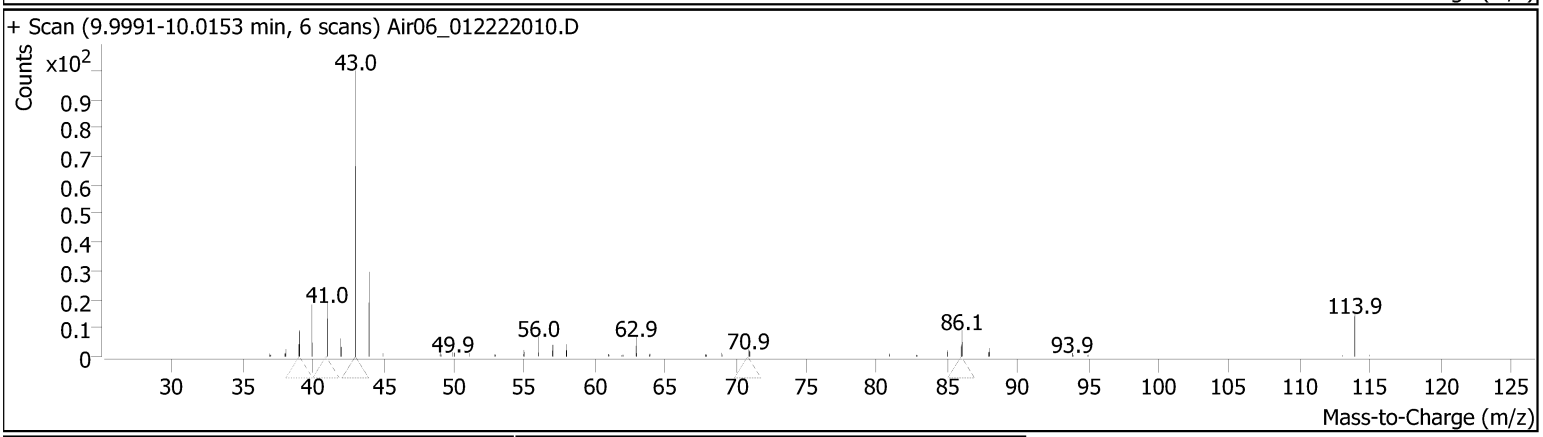



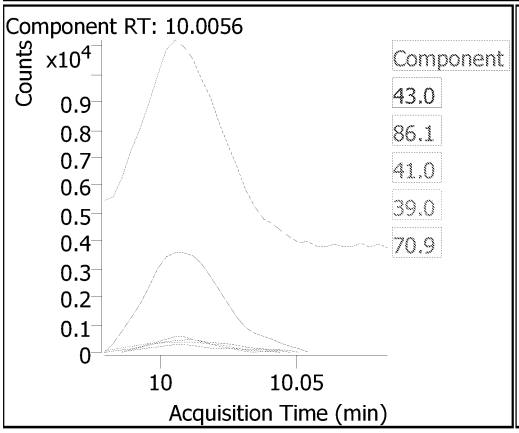



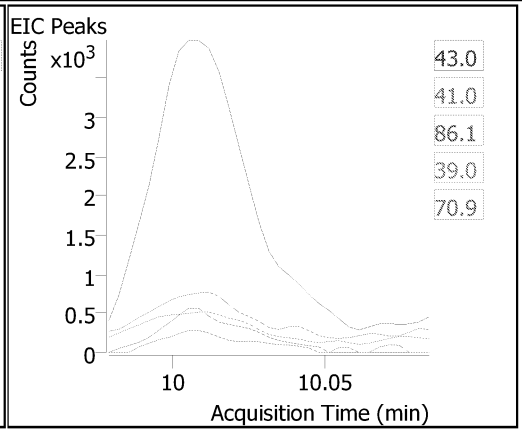
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.0056 | 2-Pentanone | 24101.6 | 87.0 | 107-87-9 | C5H10O | 0.0604 |

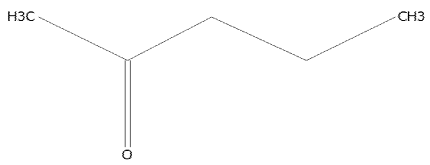


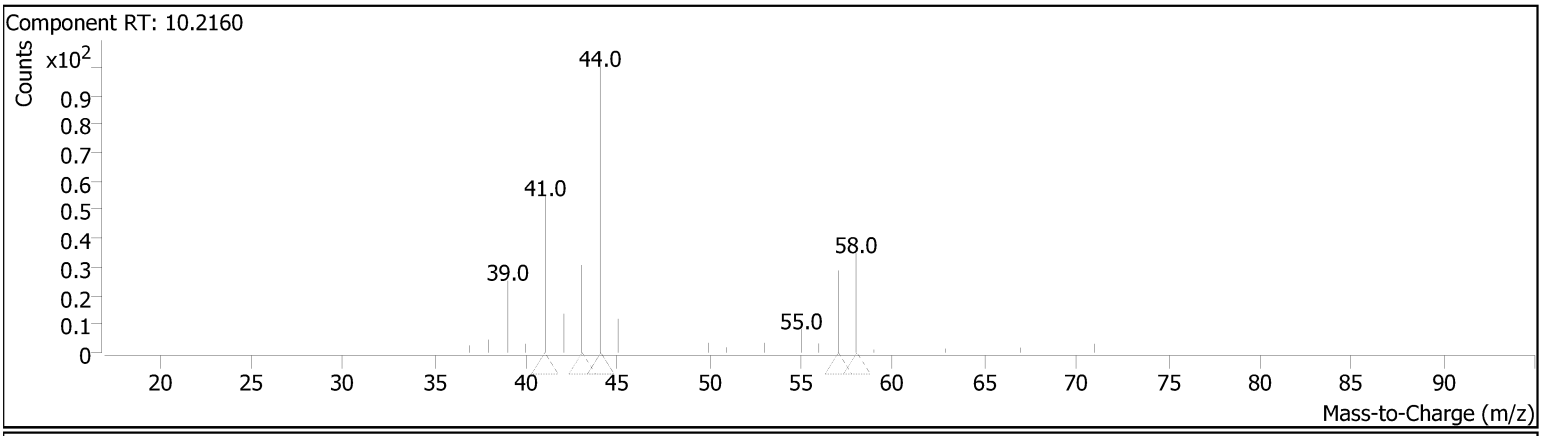



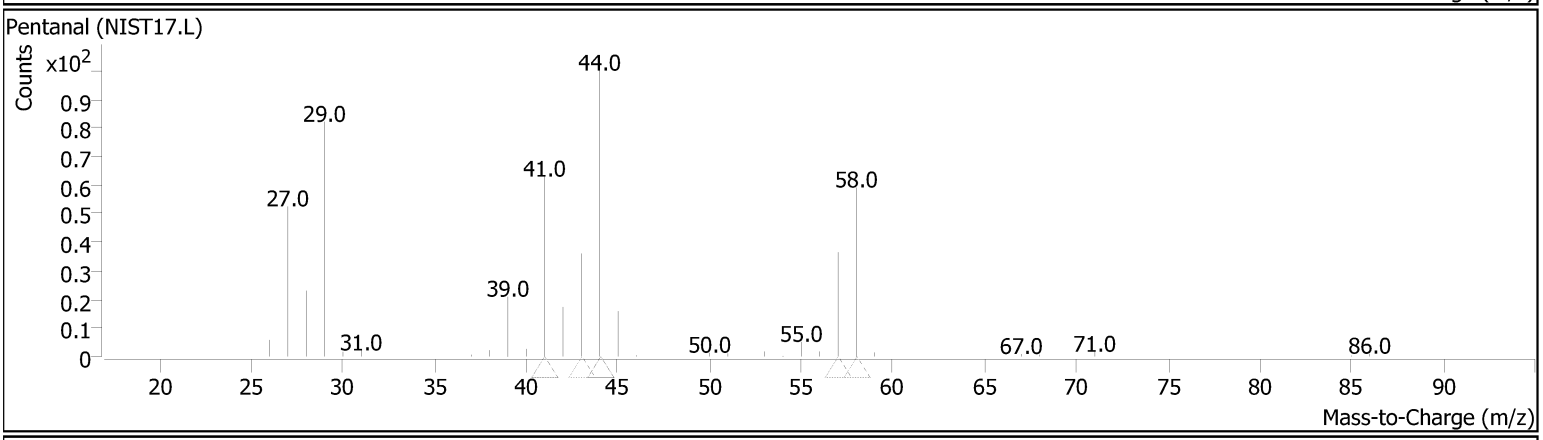



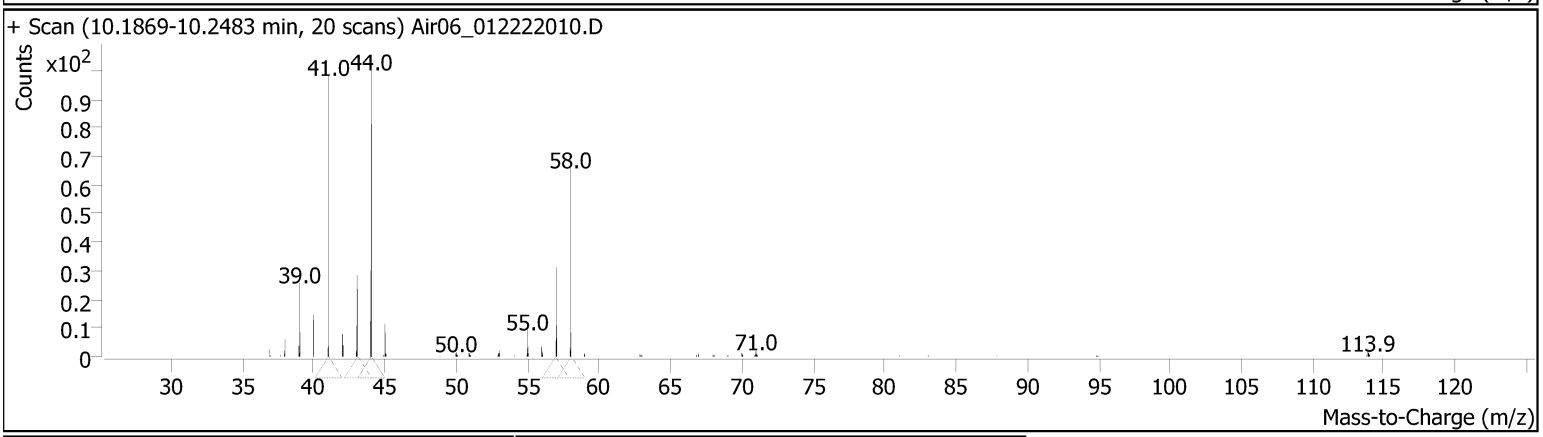



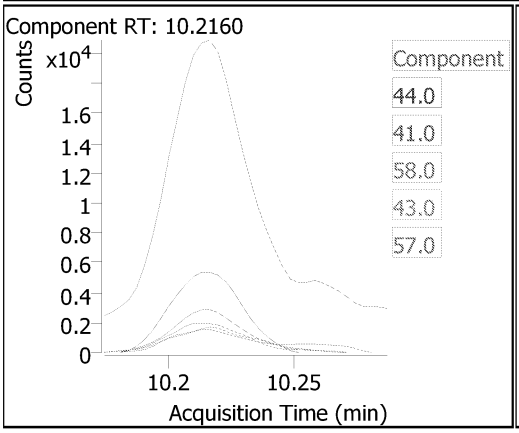



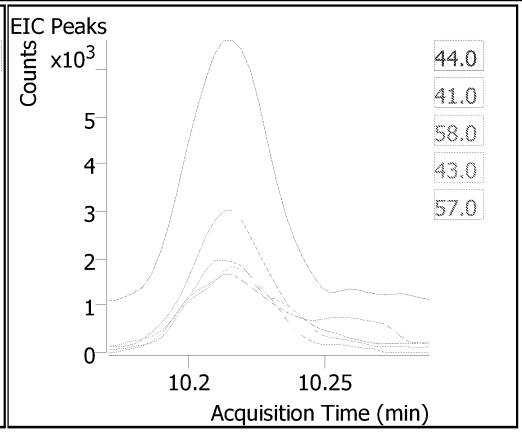
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.2160 | Pentanal | 43381.7 | 96.3 | 110-62-3 | C5H10O | 0.1087 |

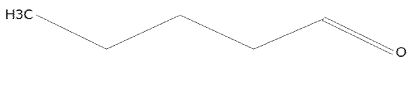


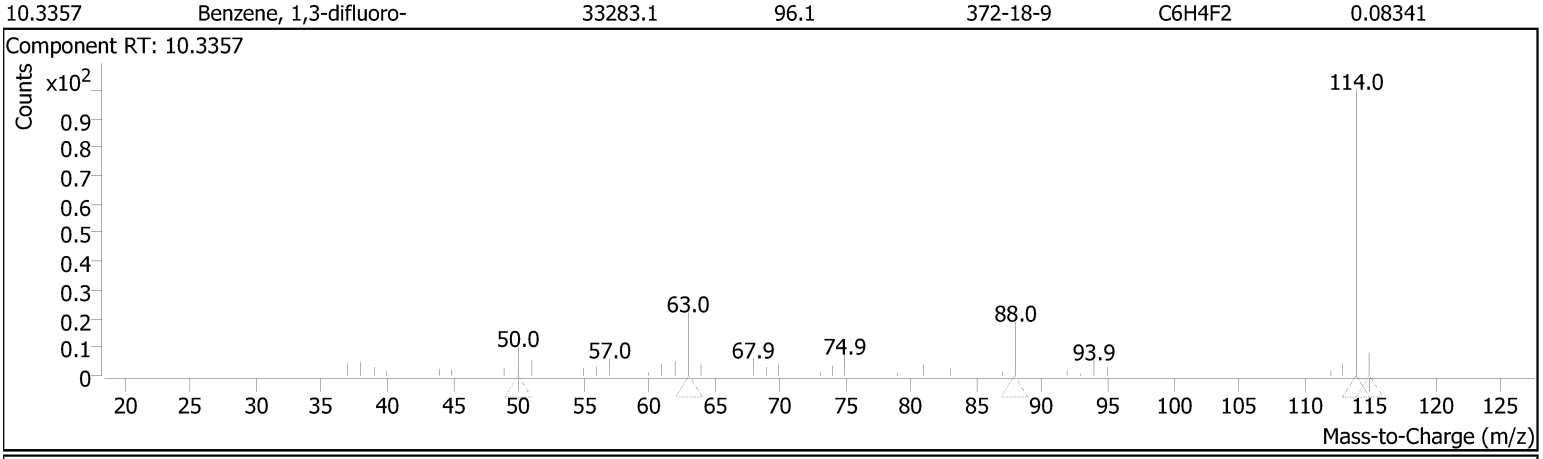



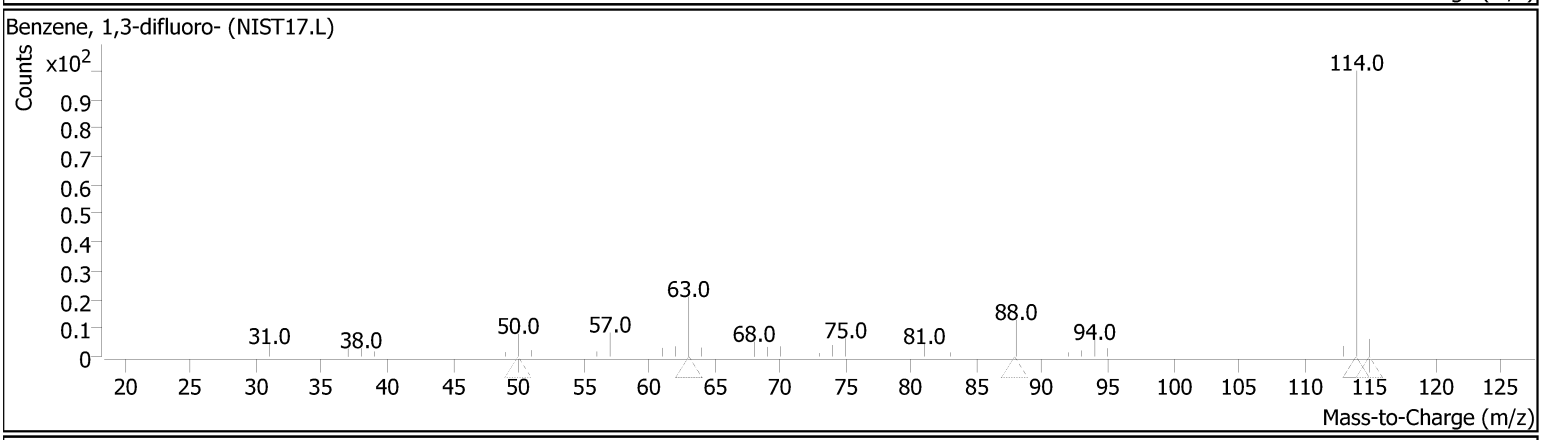



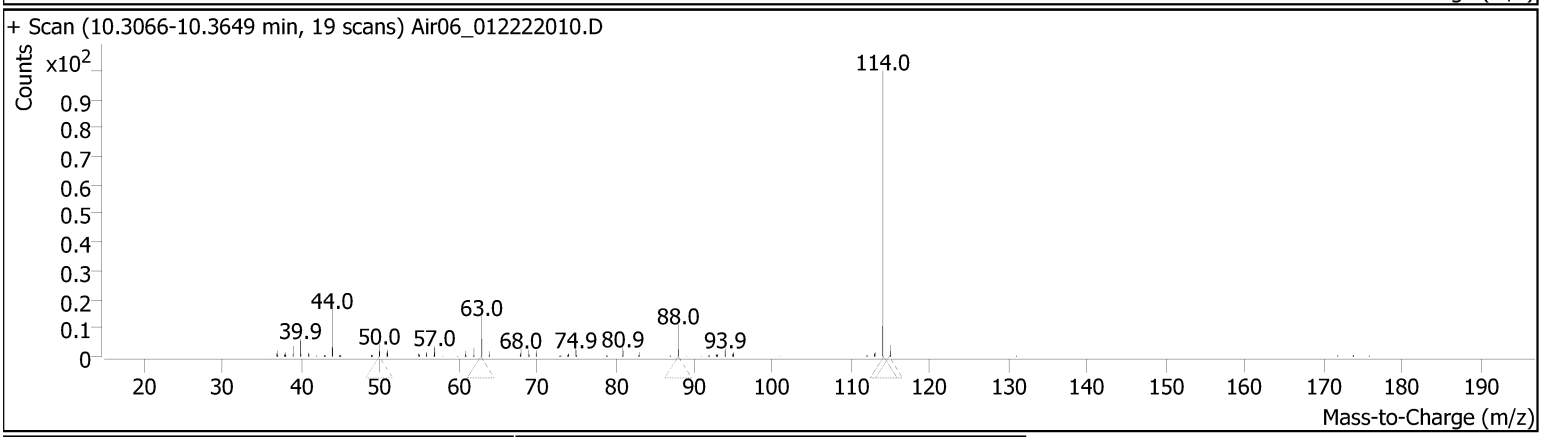



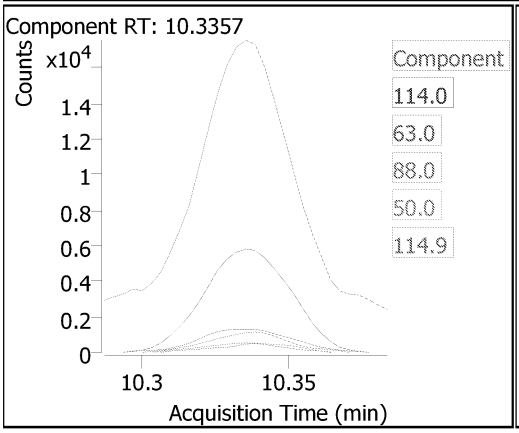



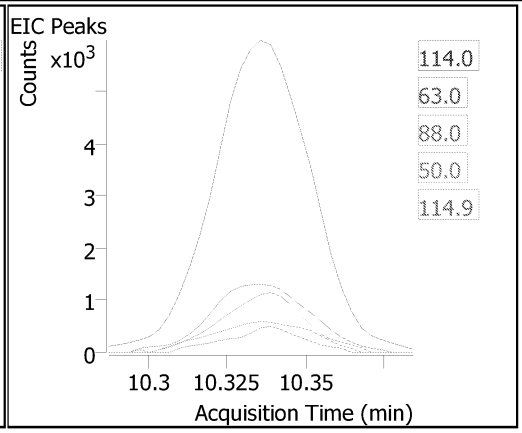
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.3357 | Benzene, 1,3-difluoro- | 33283.1 | 96.1 | 372-18-9 | C6H4F2 | 0.08341 |

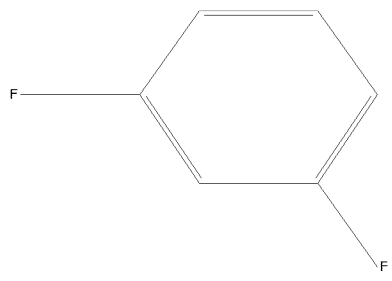


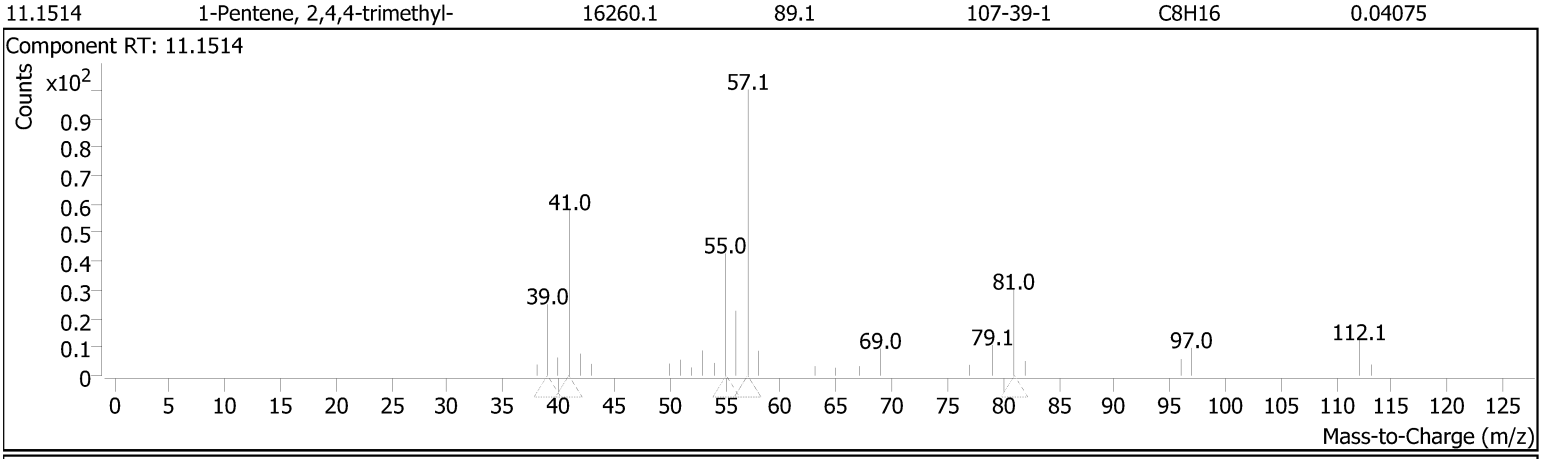



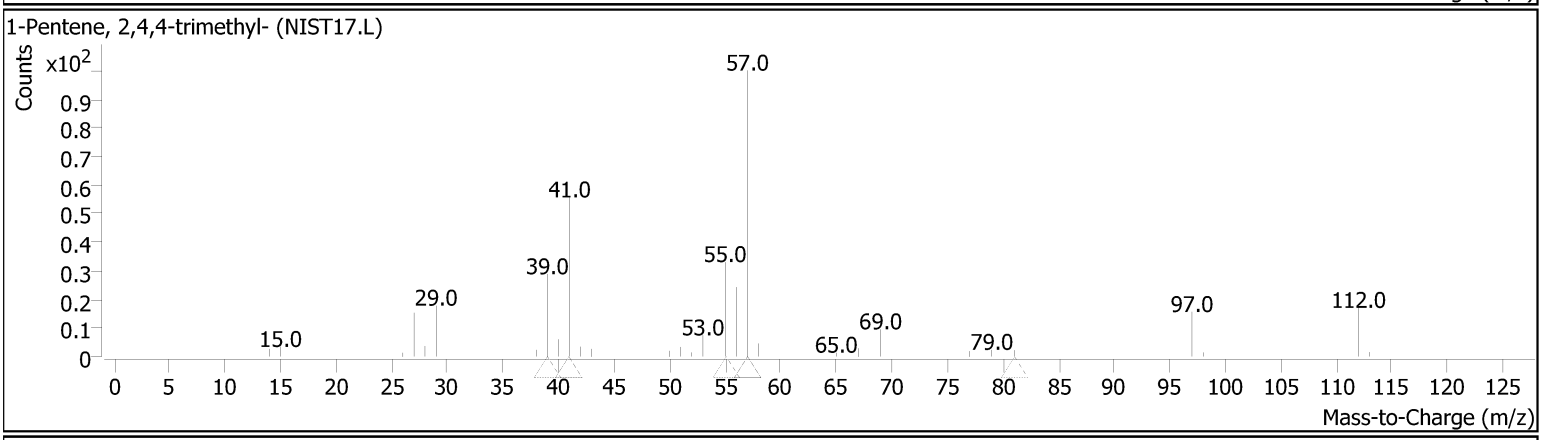



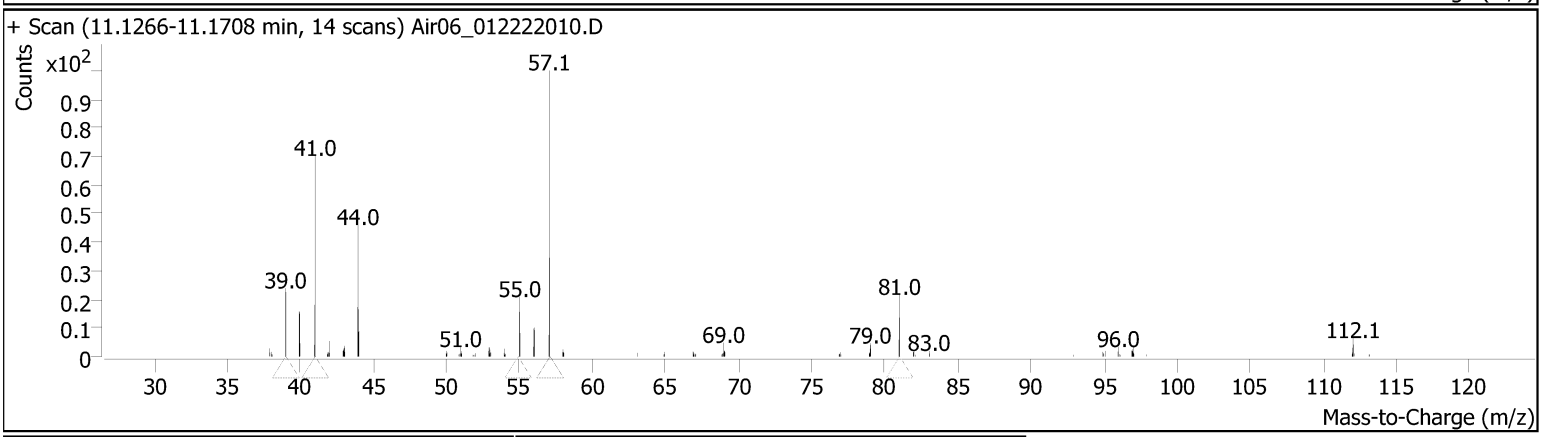



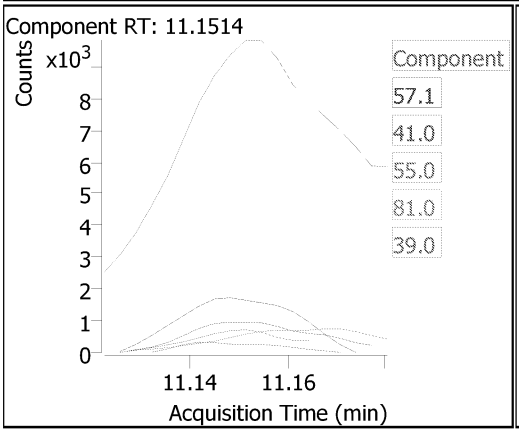



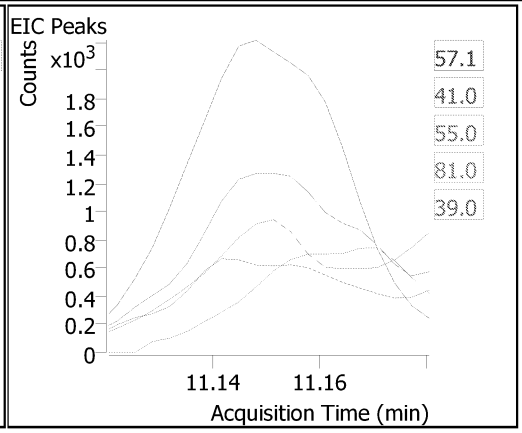
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.1514 | 1-Pentene, 2,4,4-trimethyl- | 16260.1 | 89.1 | 107-39-1 | C8H16 | 0.04075 |

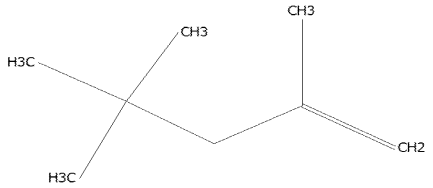


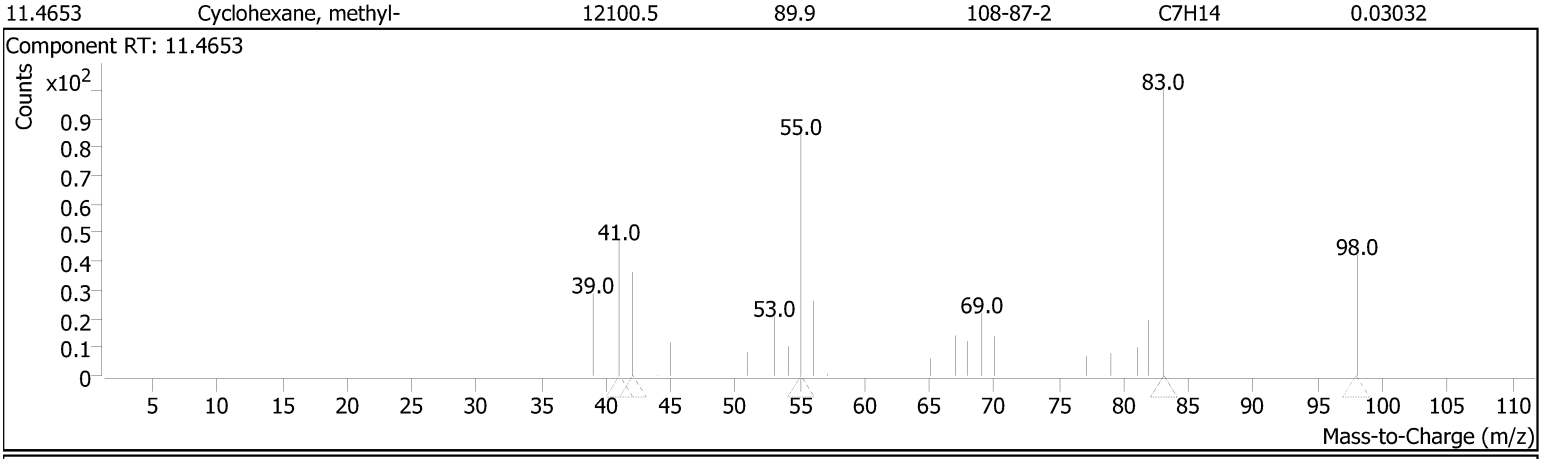



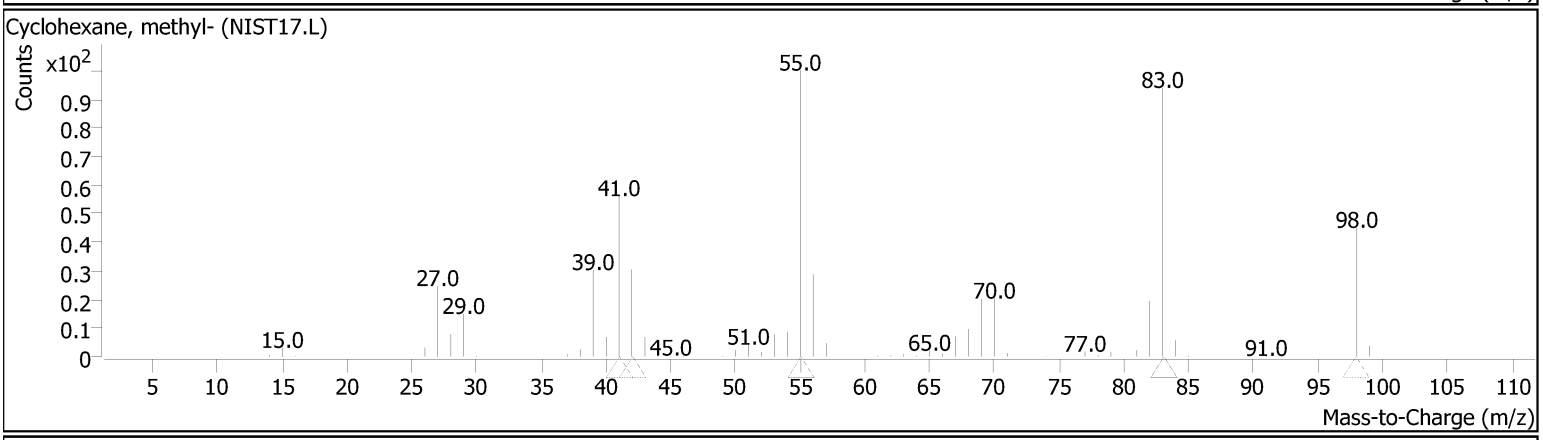



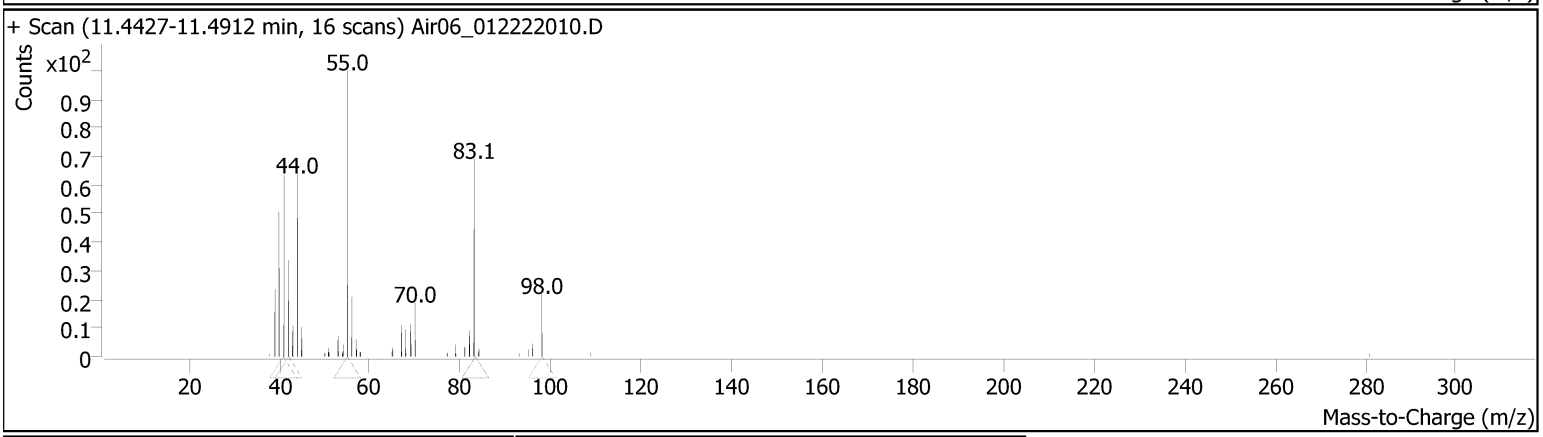



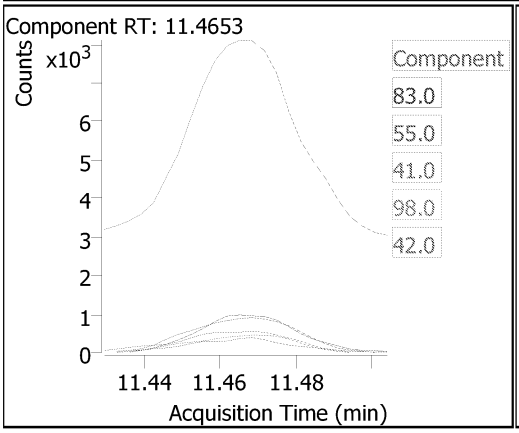



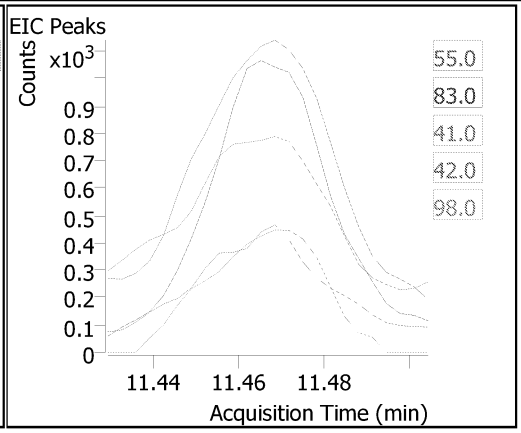
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.4653 | Cyclohexane, methyl- | 12100.5 | 89.9 | 108-87-2 | C7H14 | 0.03032 |

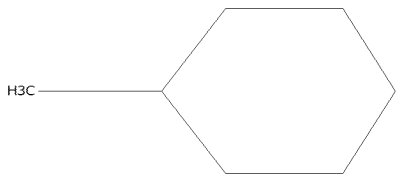


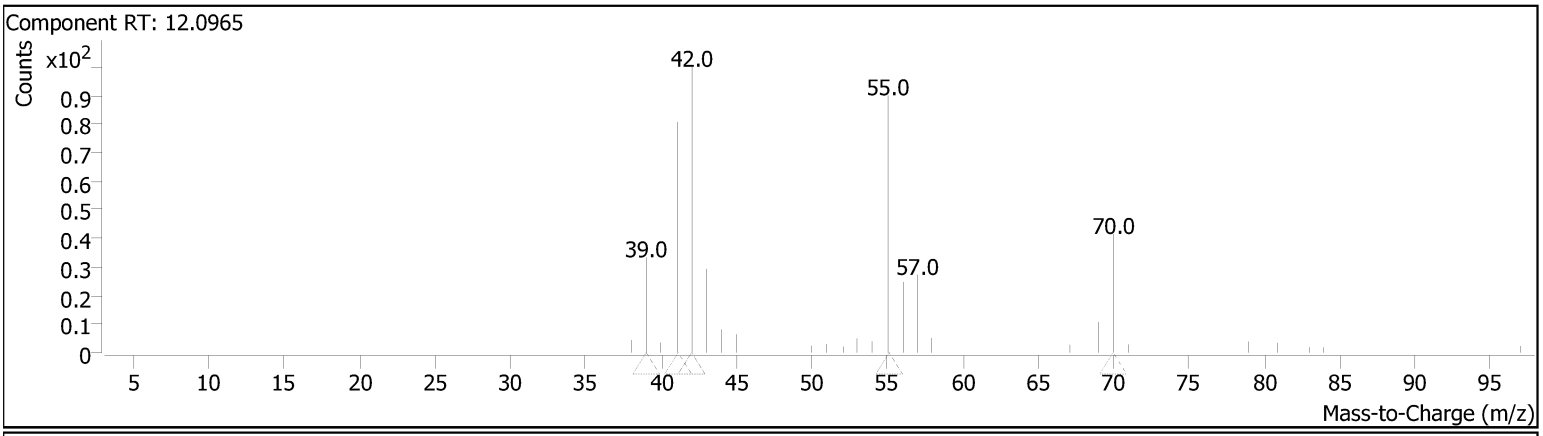



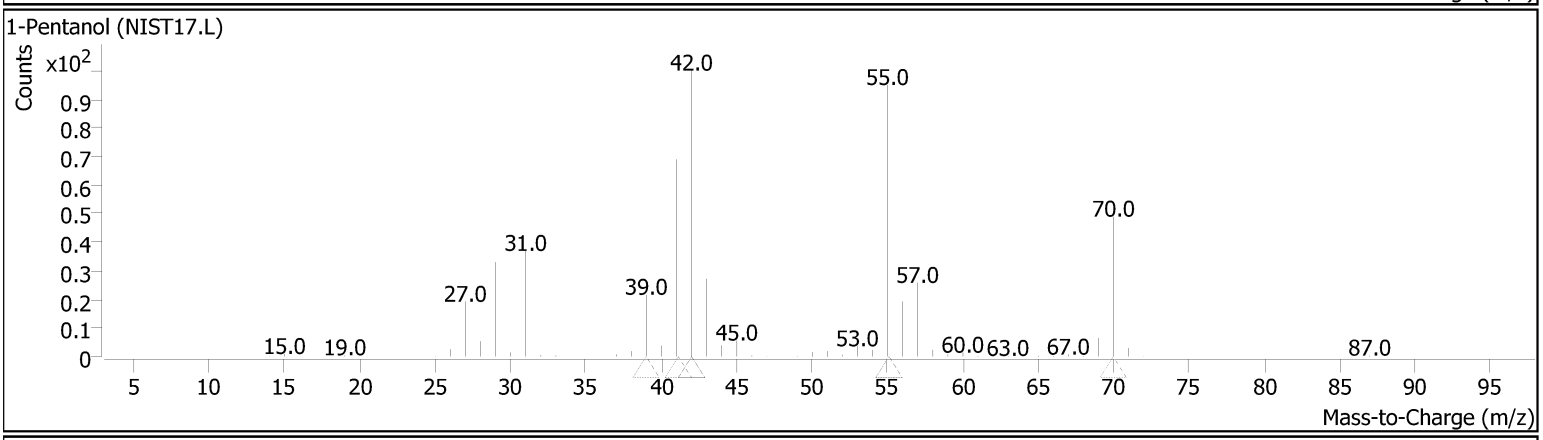



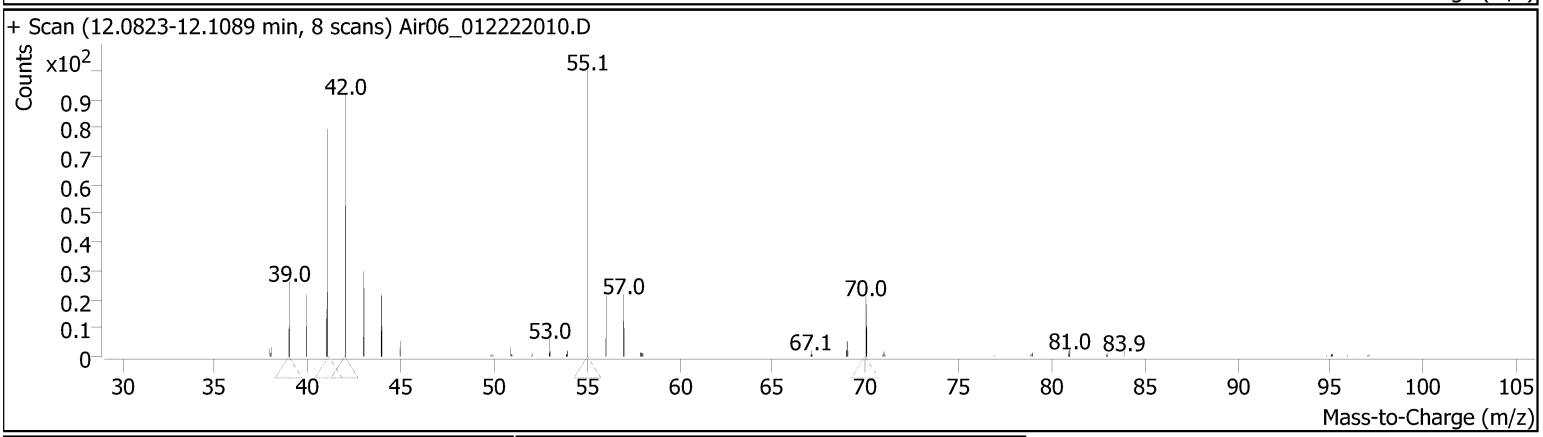



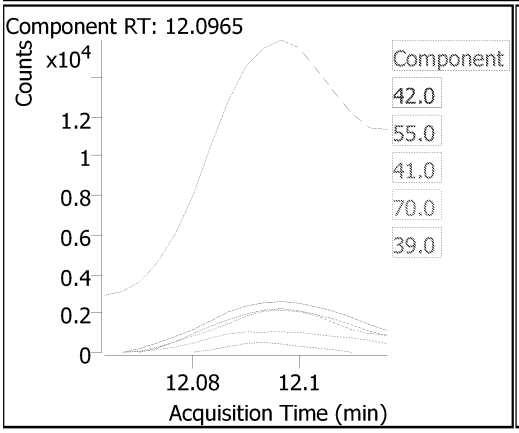



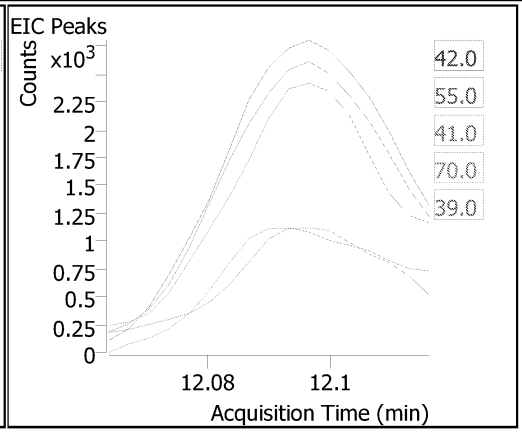
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.0965 | 1-Pentanol | 24511.7 | 94.3 | 71-41-0 | C5H12O | 0.05303 |



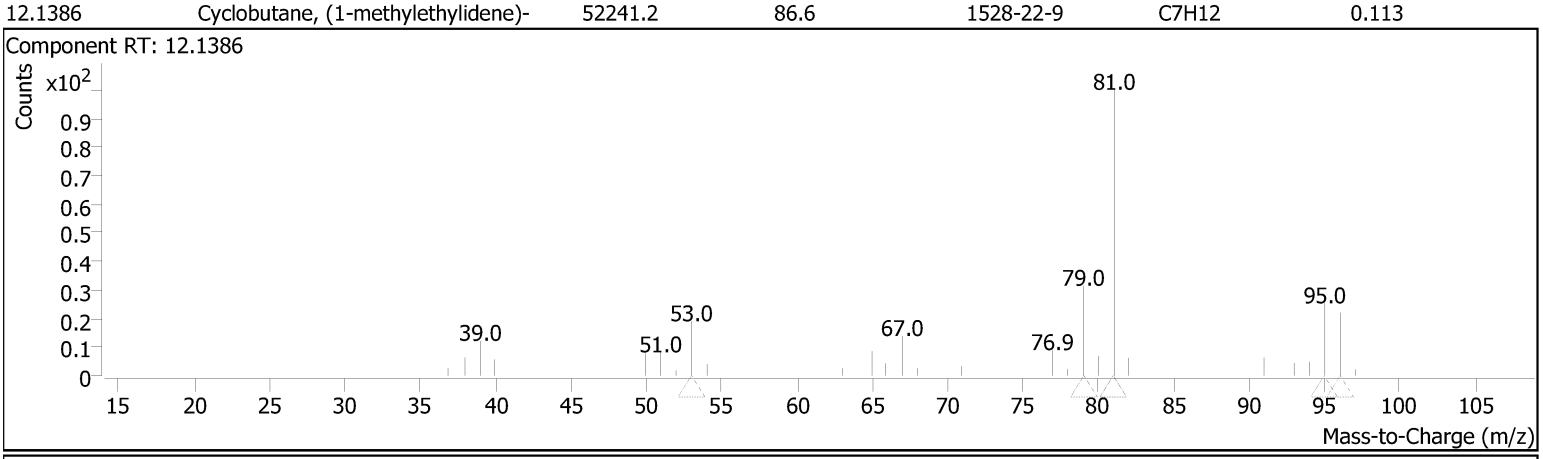



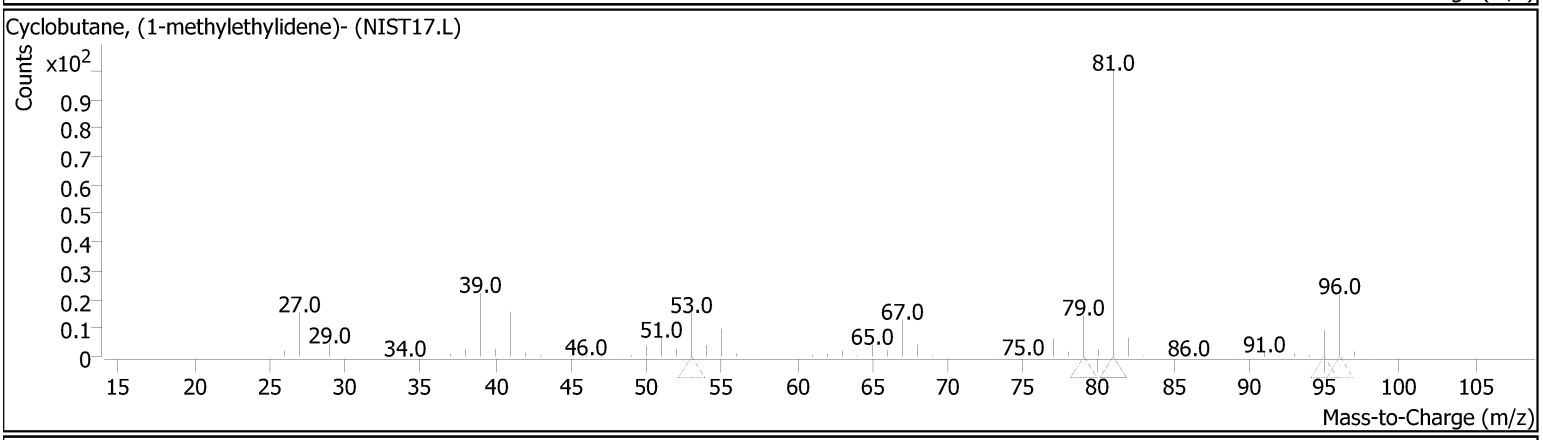



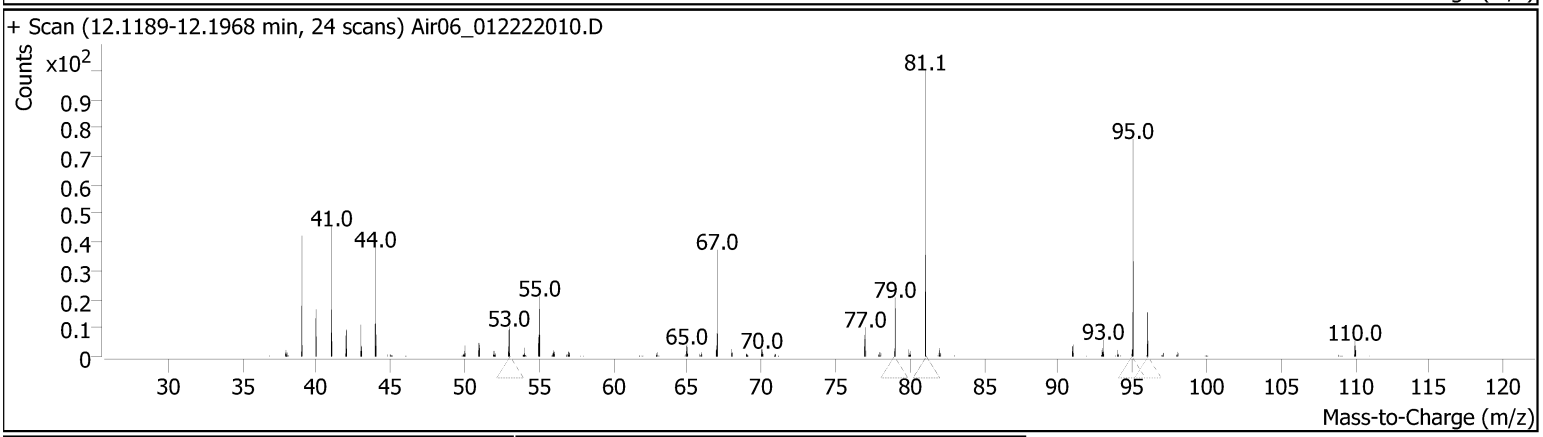



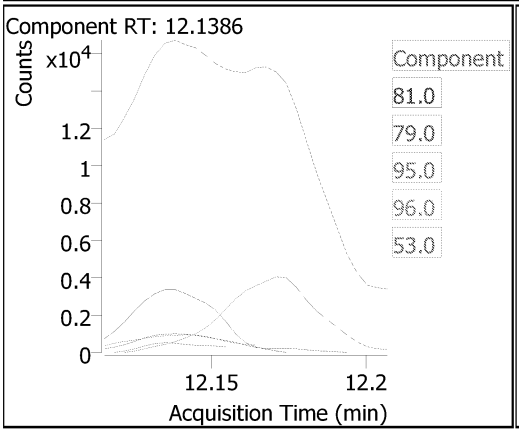


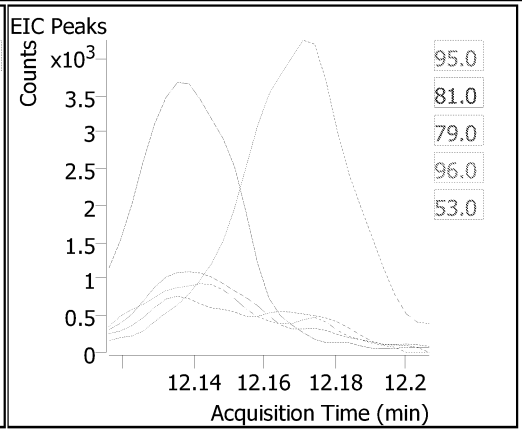

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.1386 | Cyclobutane, (1-methylethylidene)- | 52241.2 | 86.6 | 1528-22-9 | C7H12 | 0.113 |

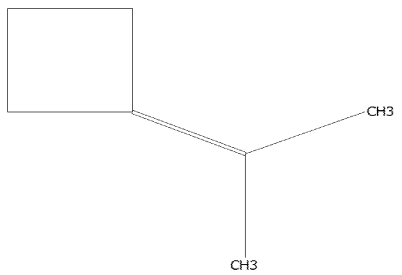


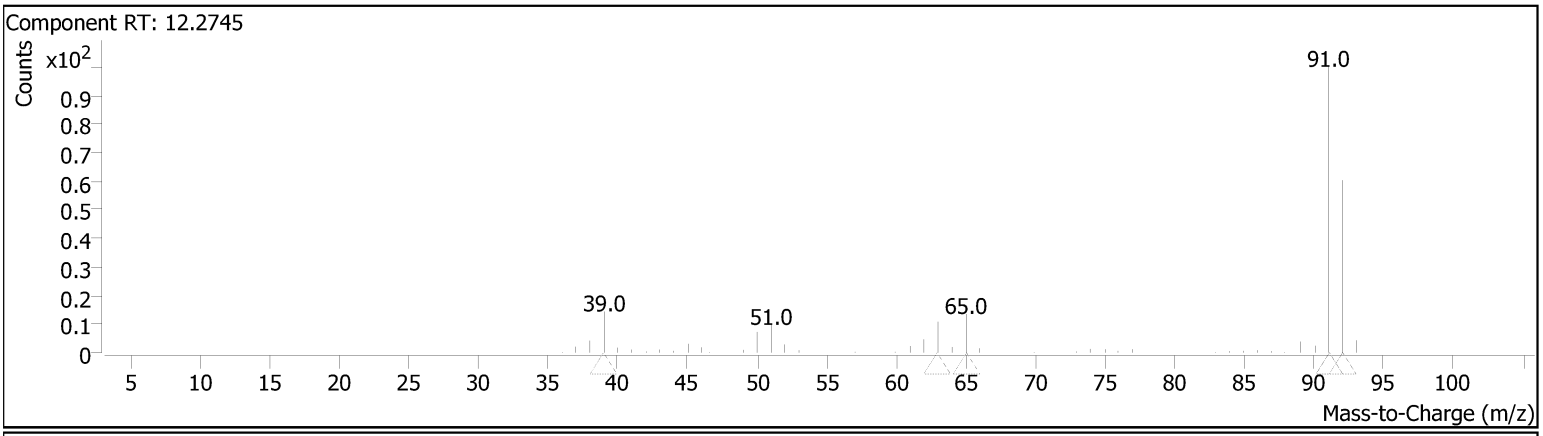



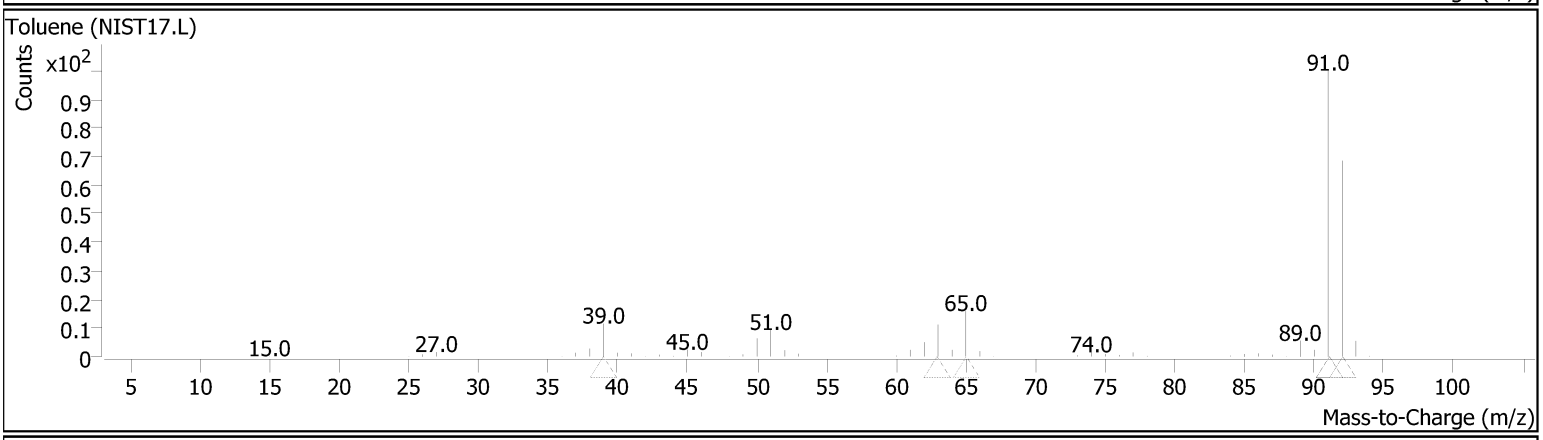



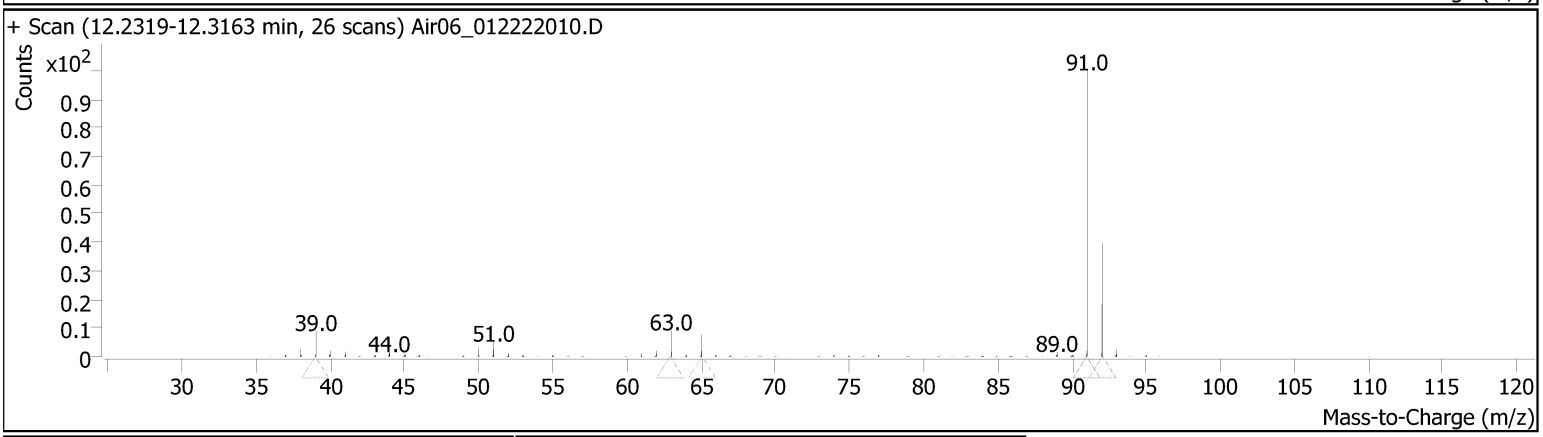



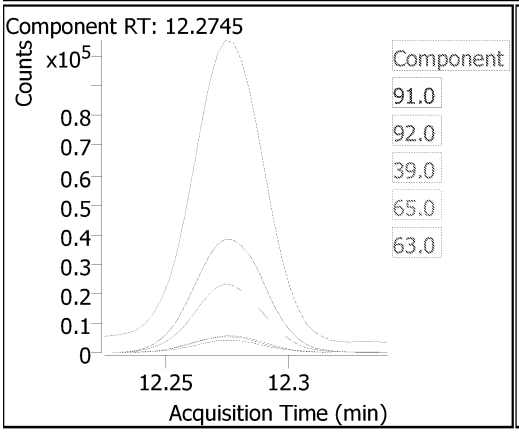



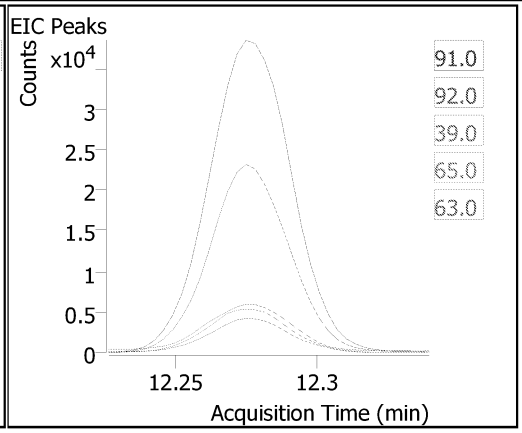
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.2745 | Toluene | 214574.9 | 99.2 | 108-88-3 | C7H8 | 0.4643 |

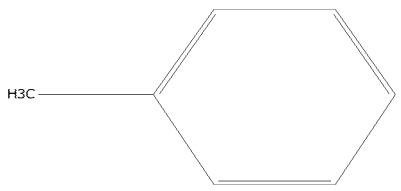


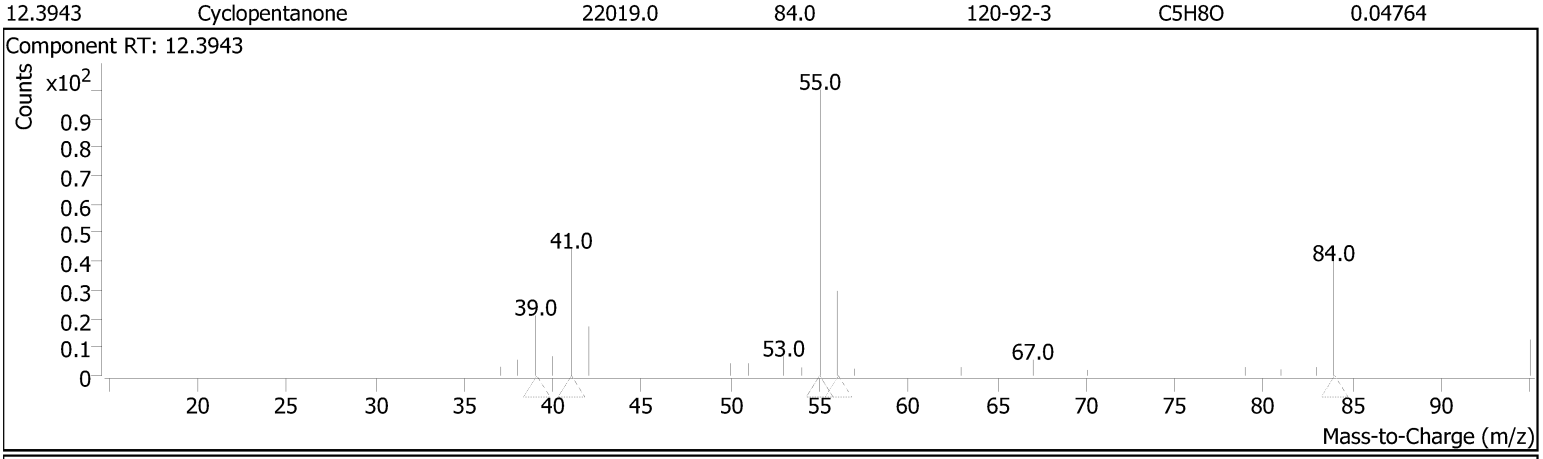



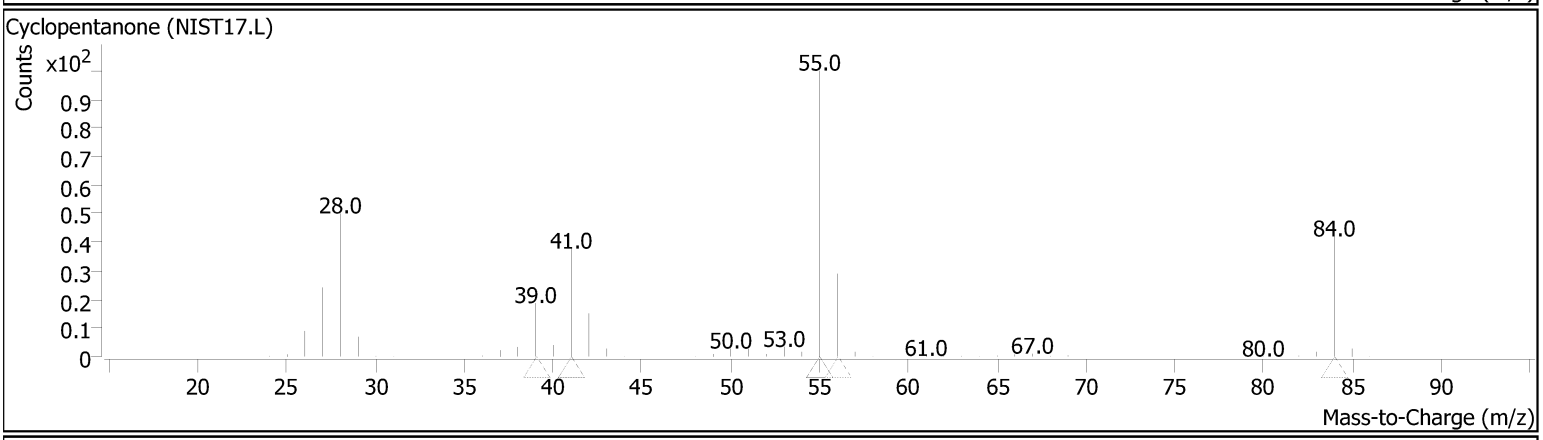



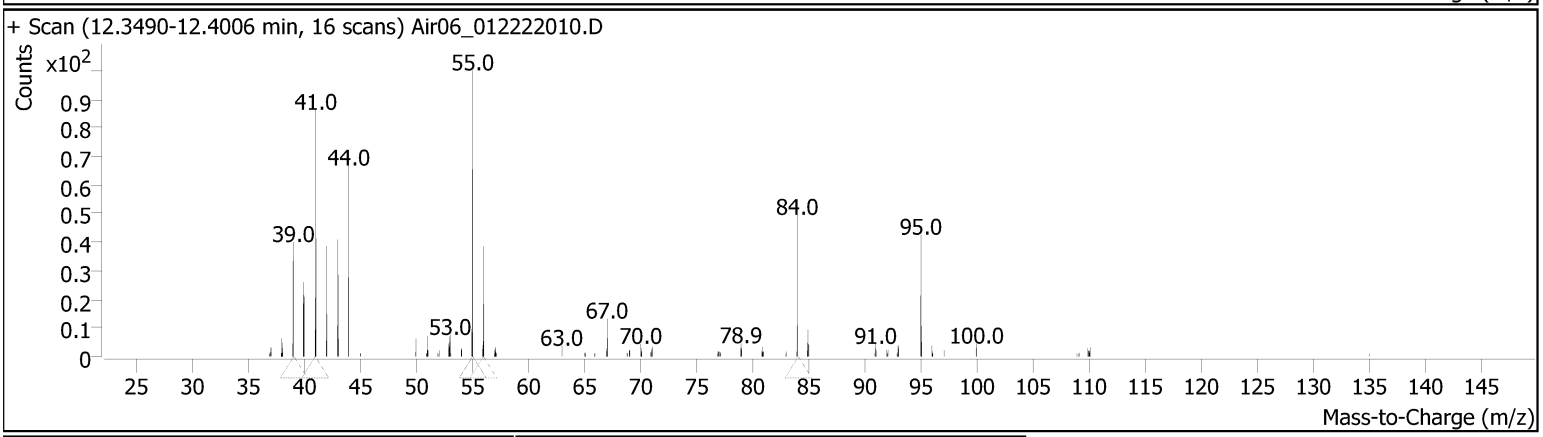



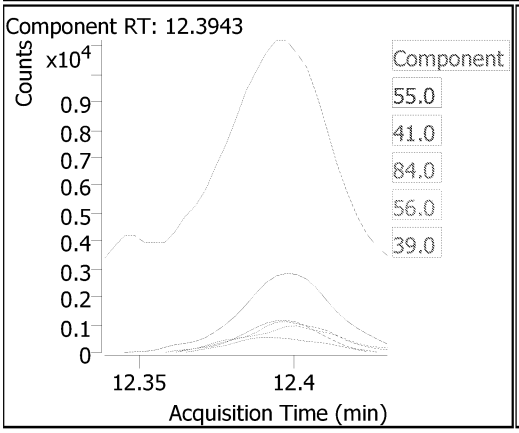



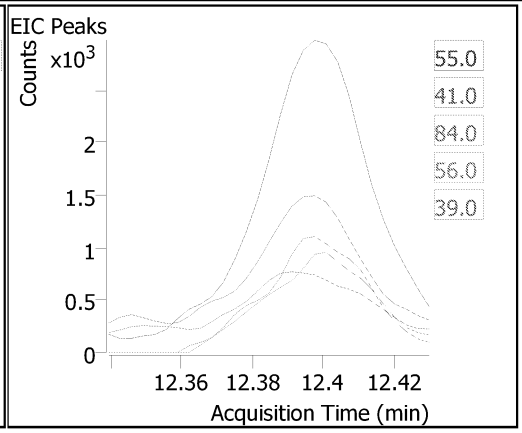
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.3943 | Cyclopentanone | 22019.0 | 84.0 | 120-92-3 | C5H8O | 0.04764 |

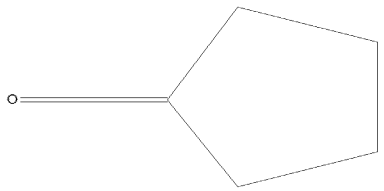


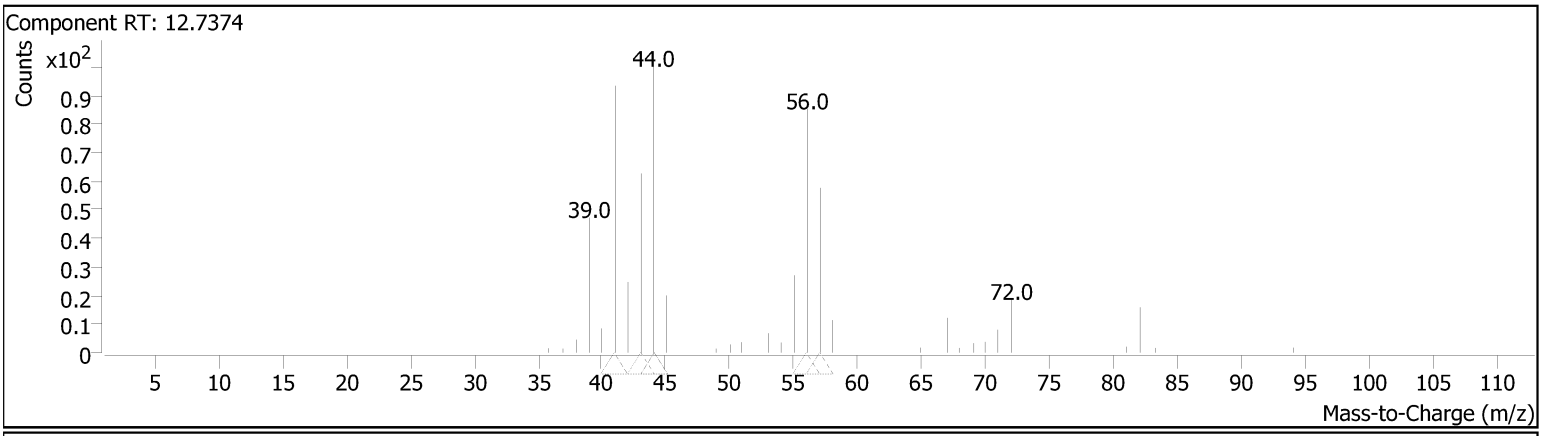



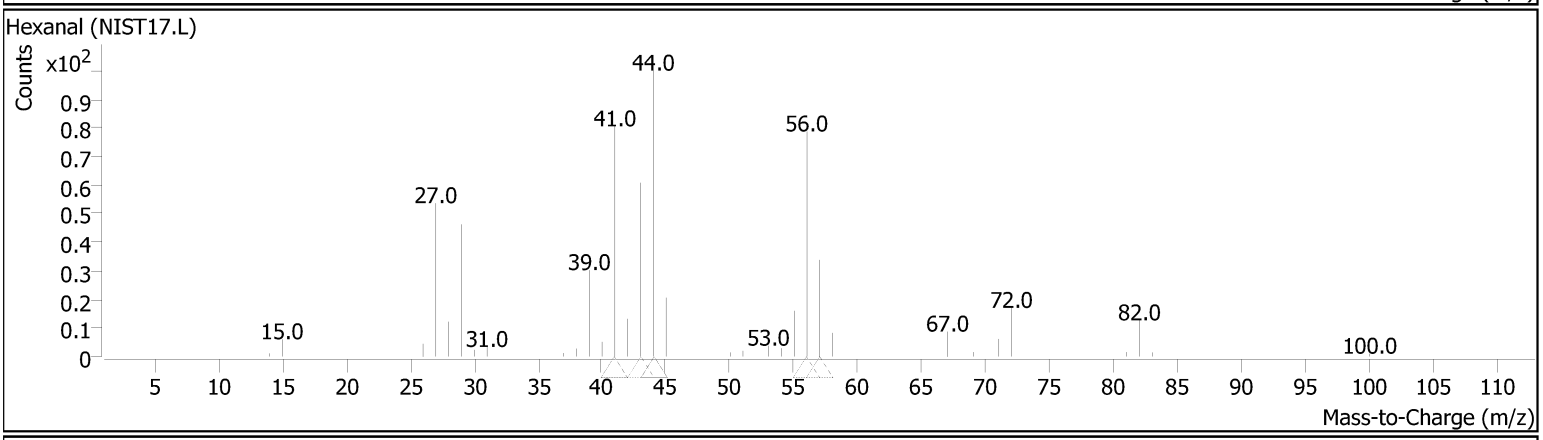



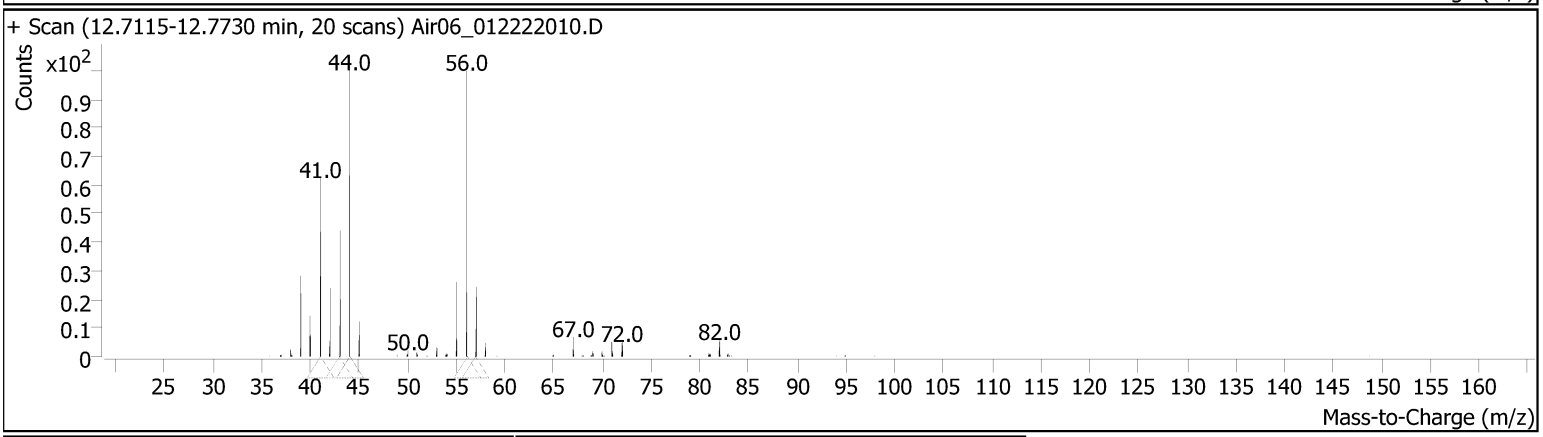



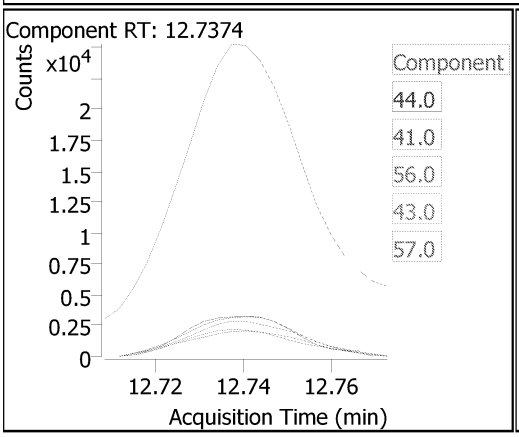



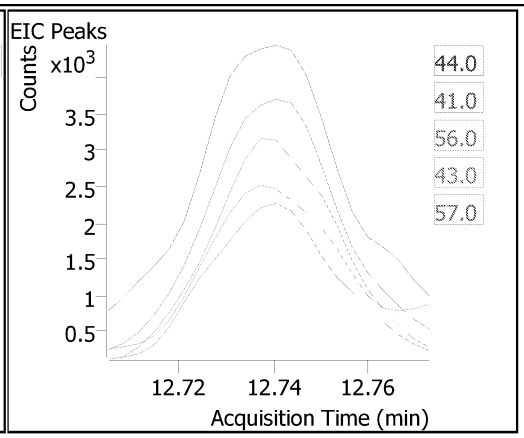
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.7374 | Hexanal | 44299.2 | 97.0 | 66-25-1 | C6H12O | 0.09585 |



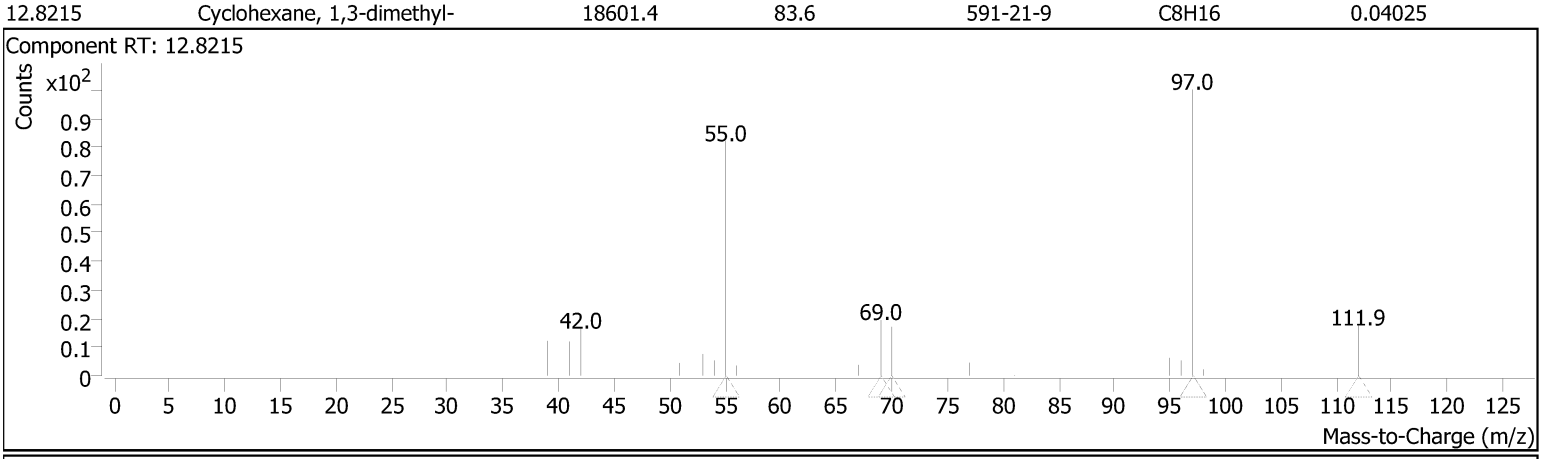



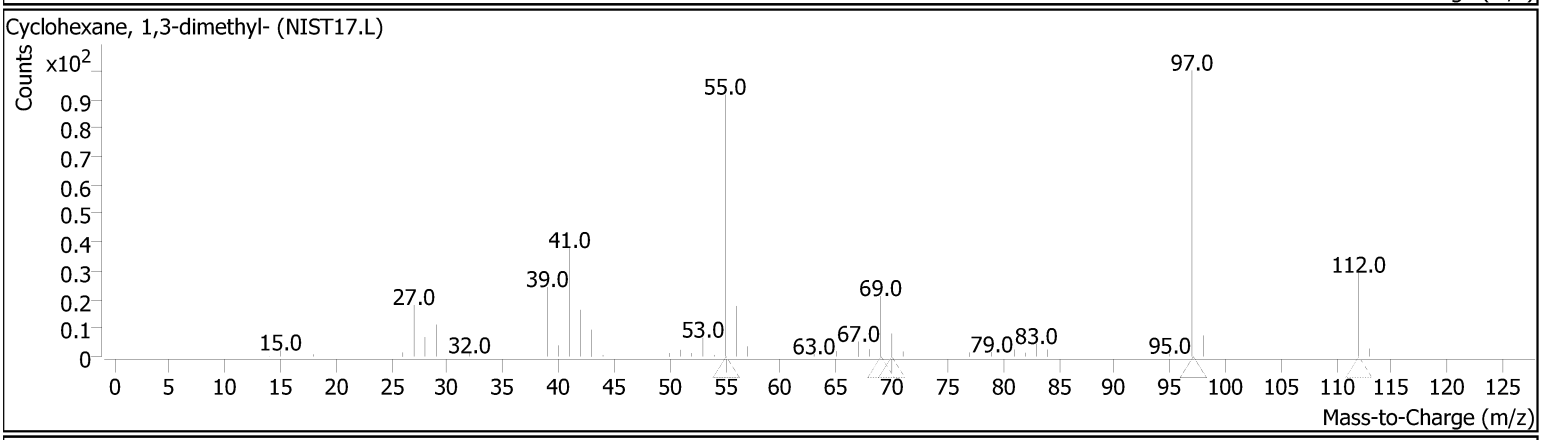



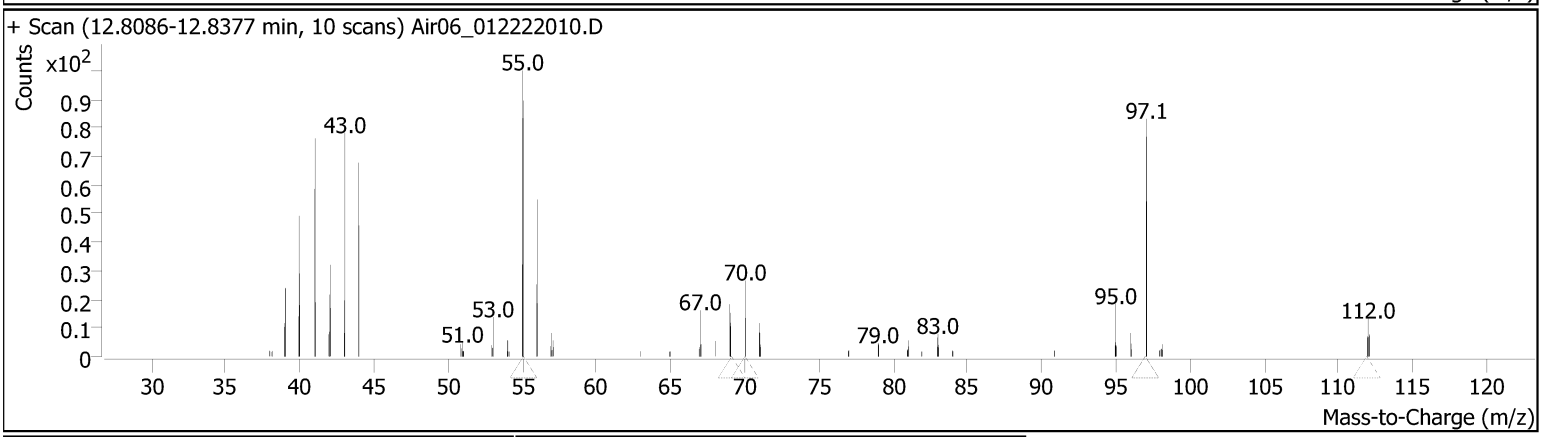



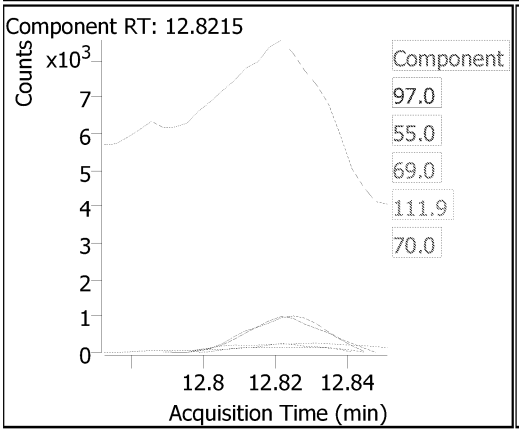


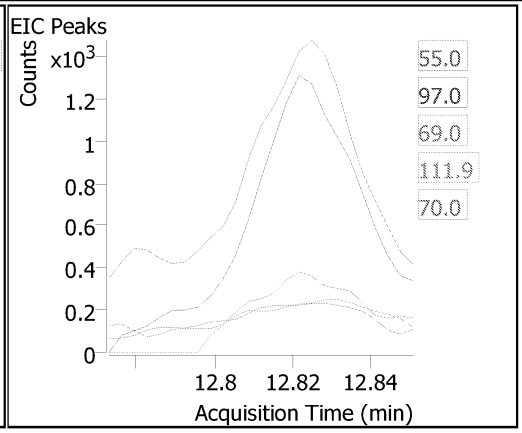

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.8215 | Cyclohexane, 1,3-dimethyl- | 18601.4 | 83.6 | 591-21-9 | C8H16 | 0.04025 |

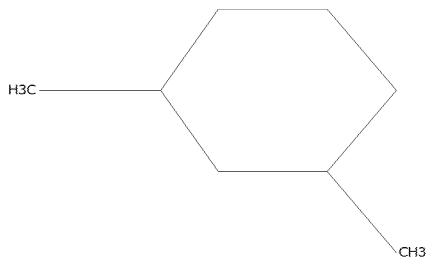


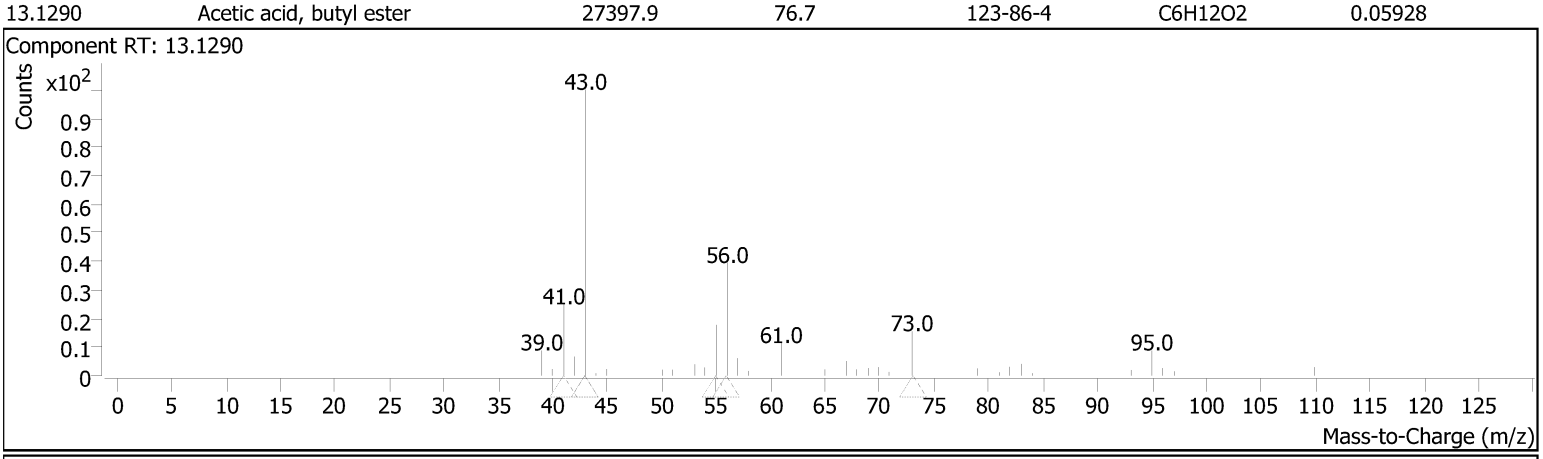



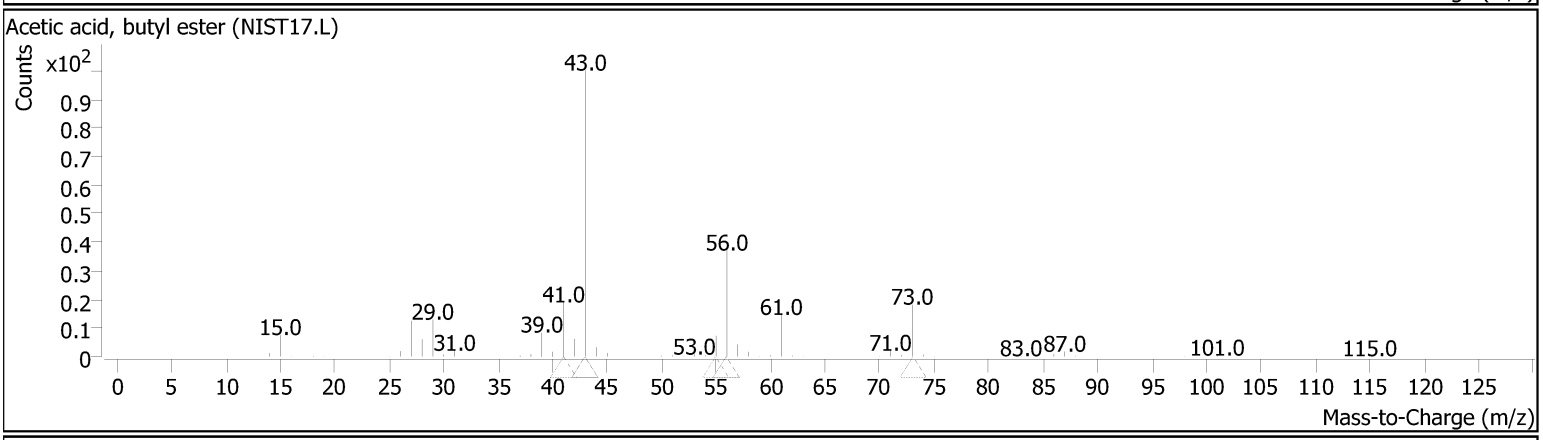



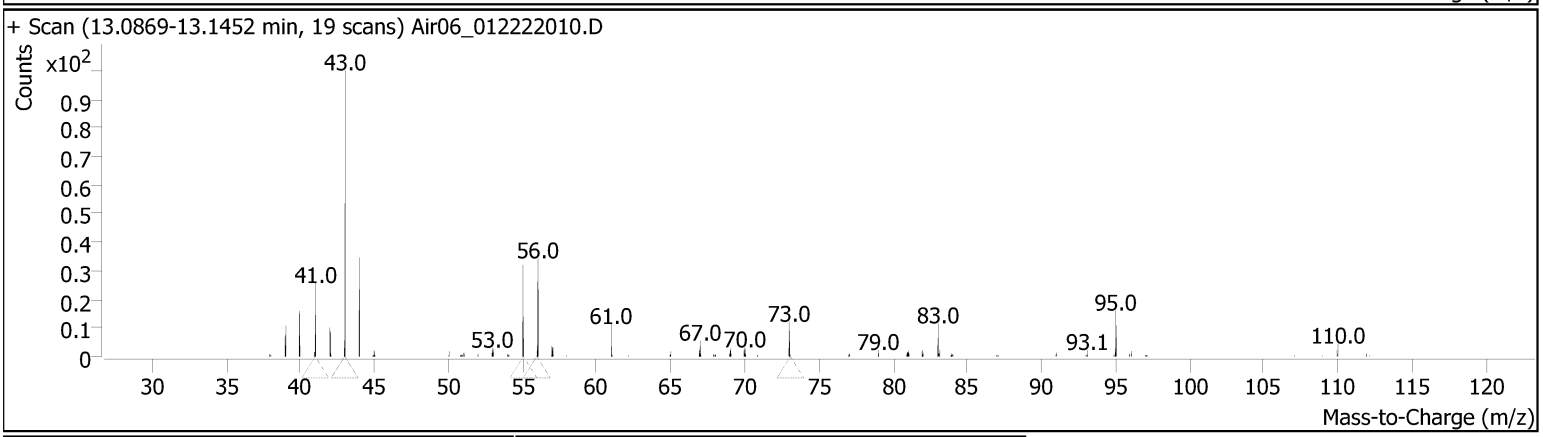



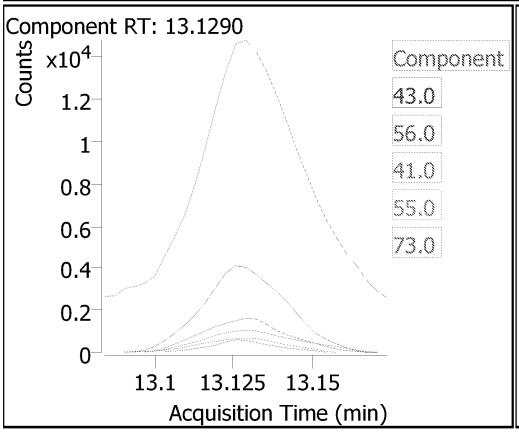



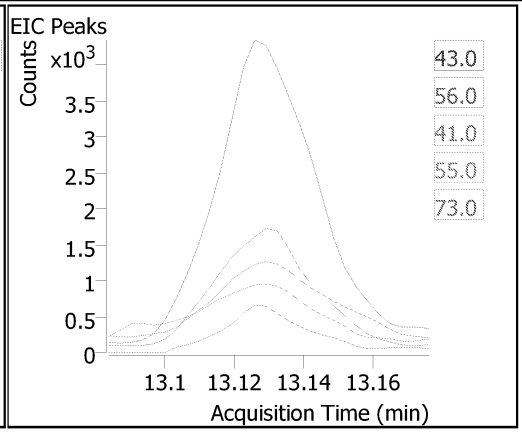
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.1290 | Acetic acid, butyl ester | 27397.9 | 76.7 | 123-86-4 | C6H12O2 | 0.05928 |

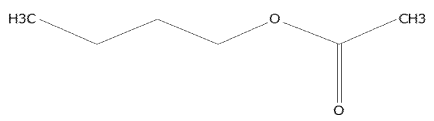


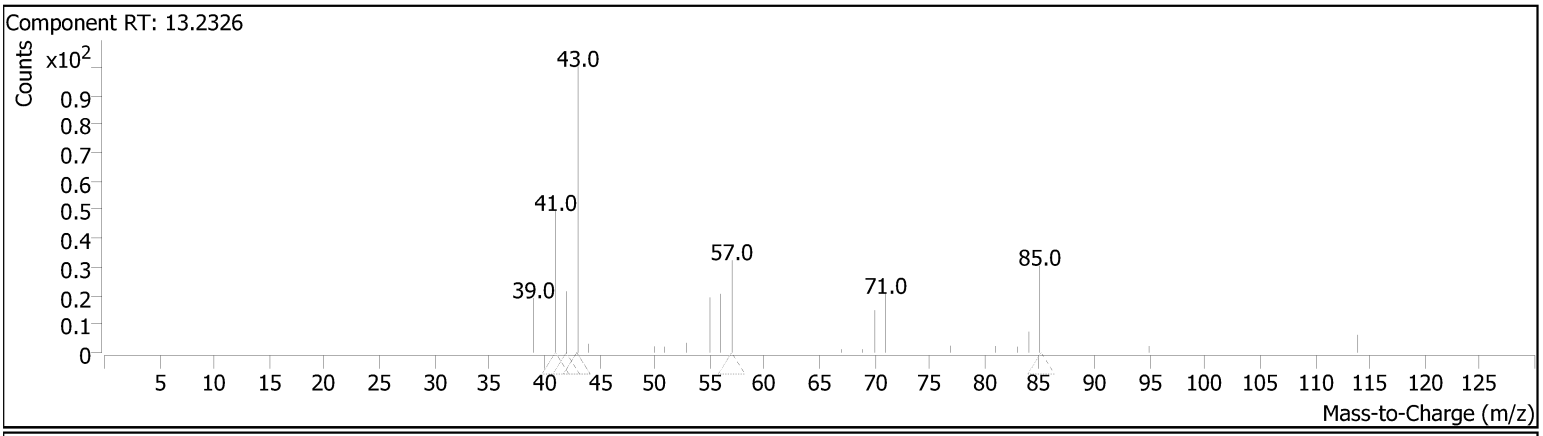



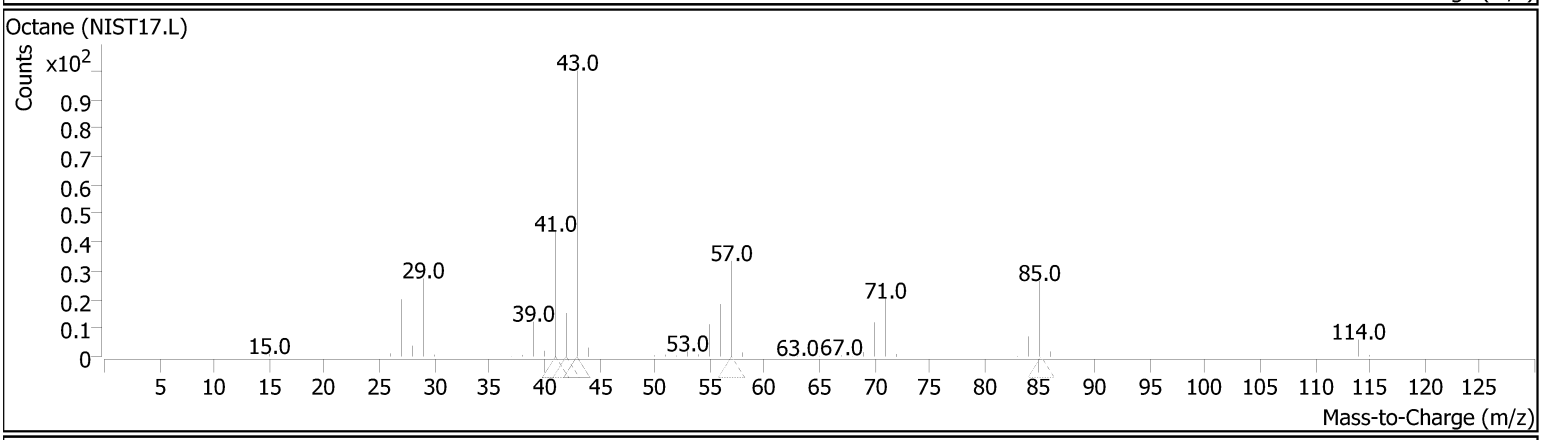



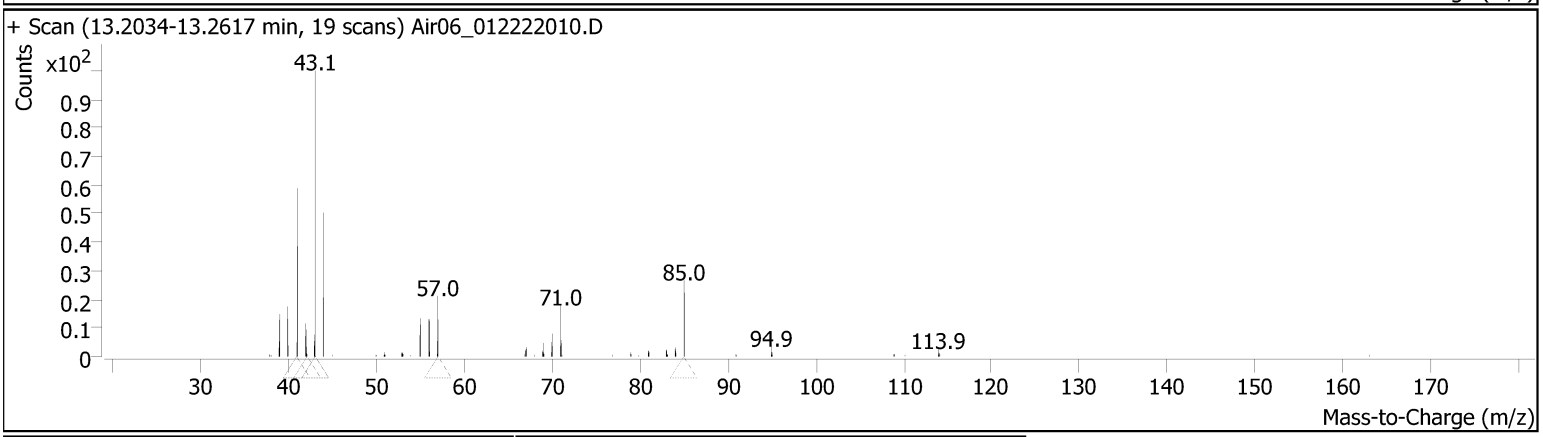



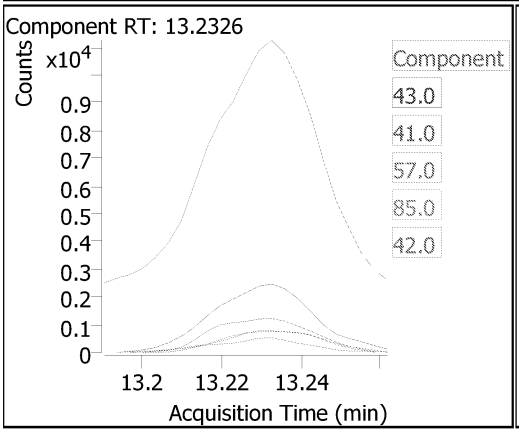



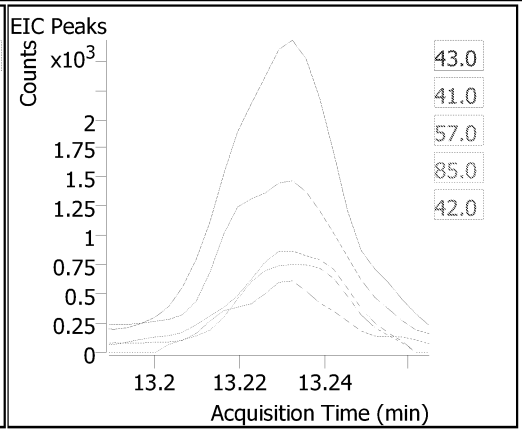
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.2326 | Octane | 16324.9 | 93.2 | 111-65-9 | C8H18 | 0.03532 |



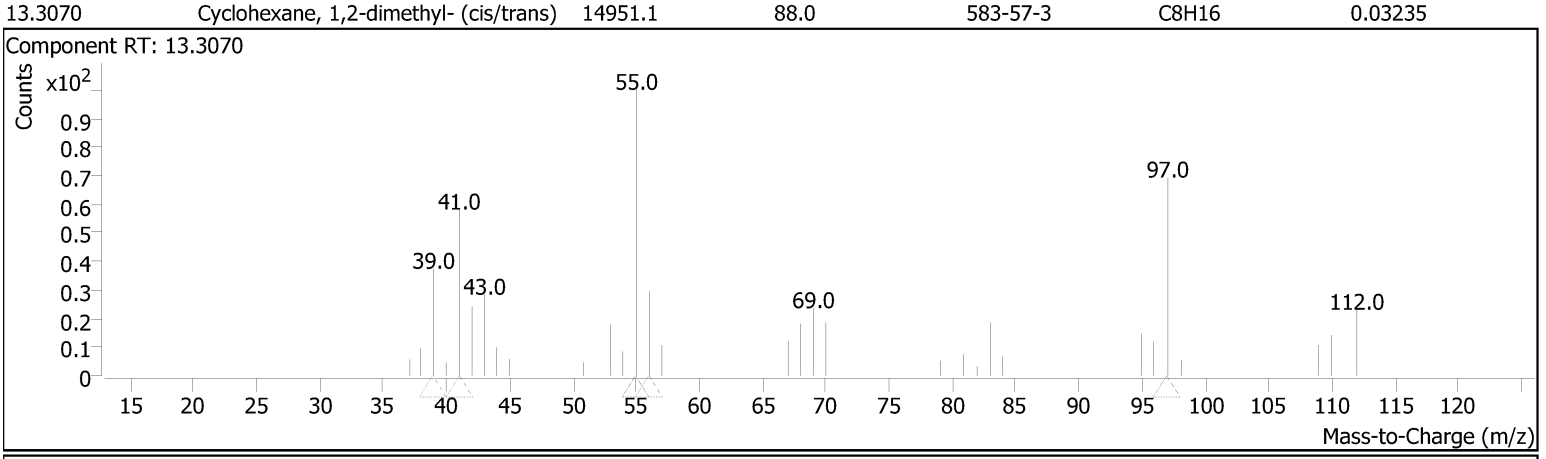



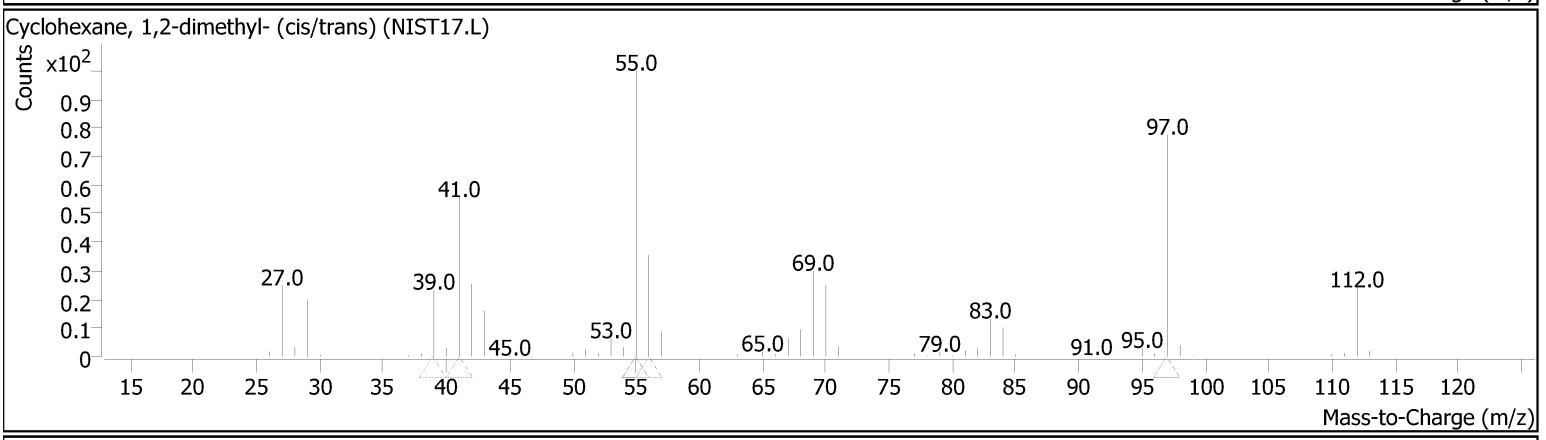



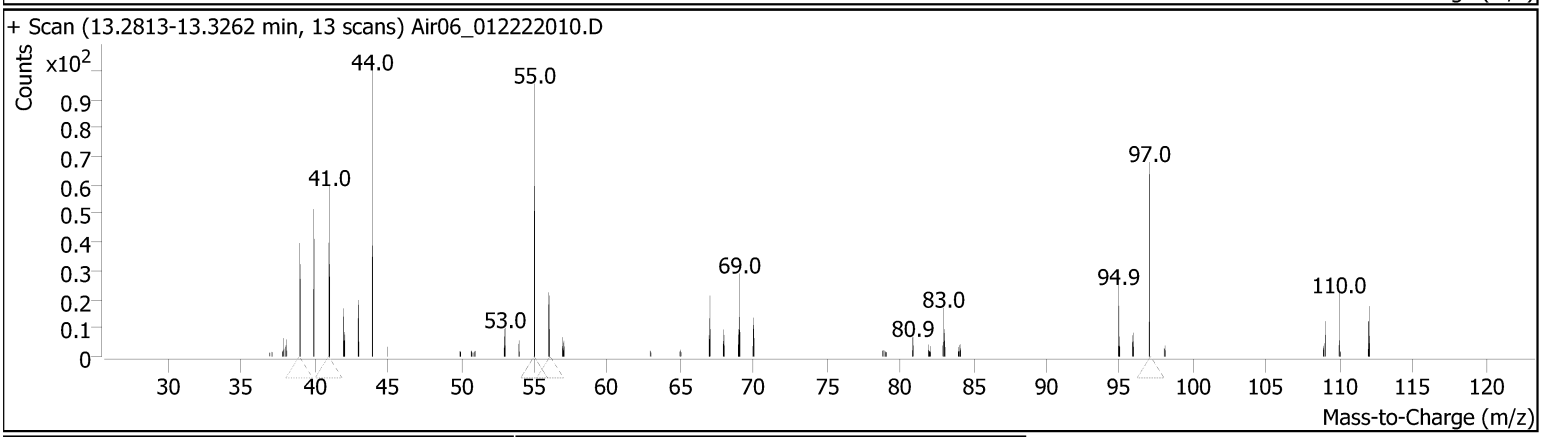



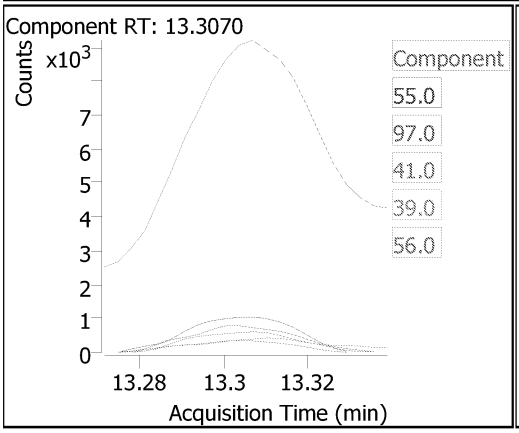


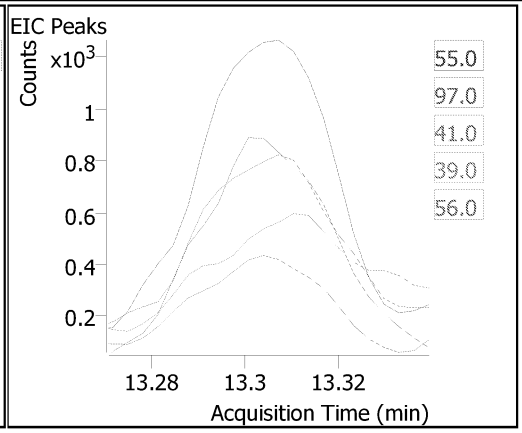

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3070 | Cyclohexane, 1,2-dimethyl- (cis/trans) | 14951.1 | 88.0 | 583-57-3 | C8H16 | 0.03235 |

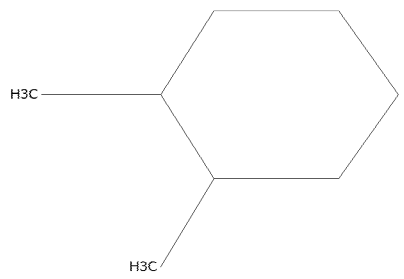


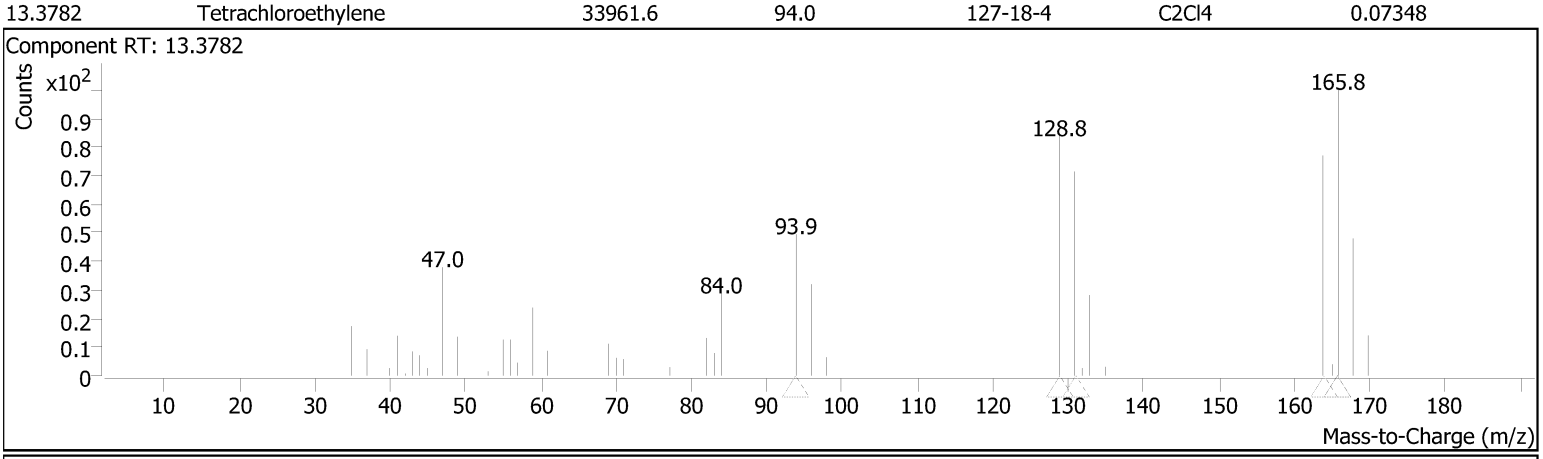



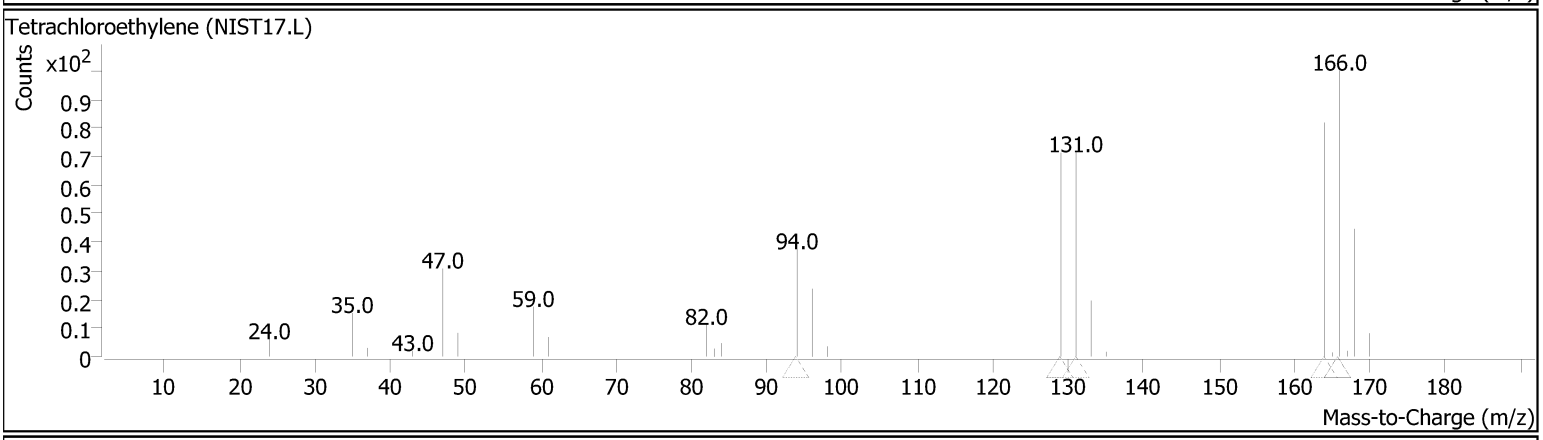



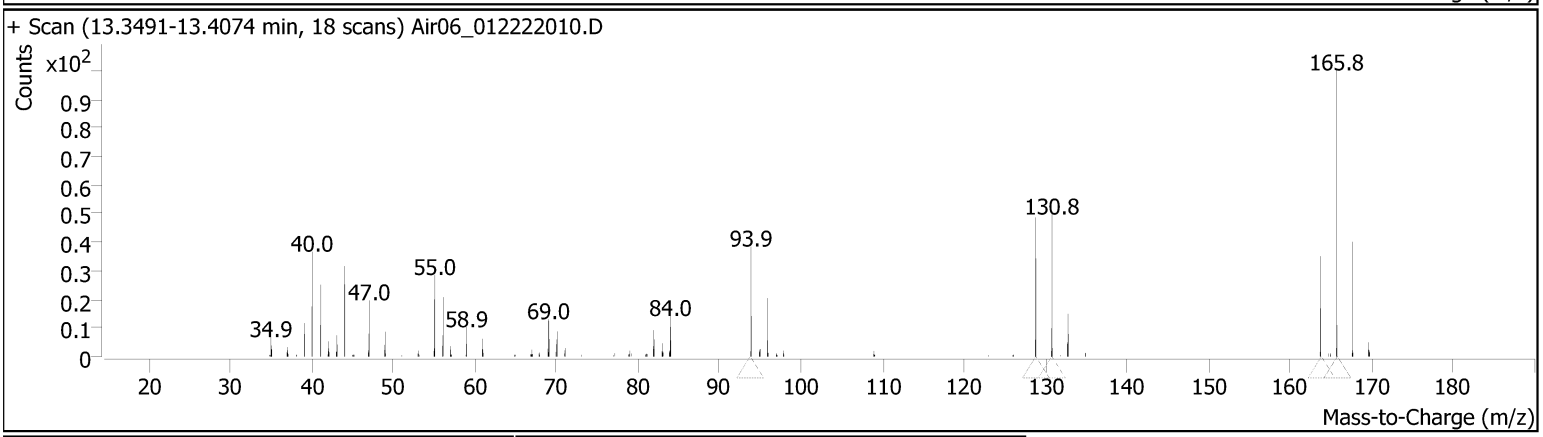



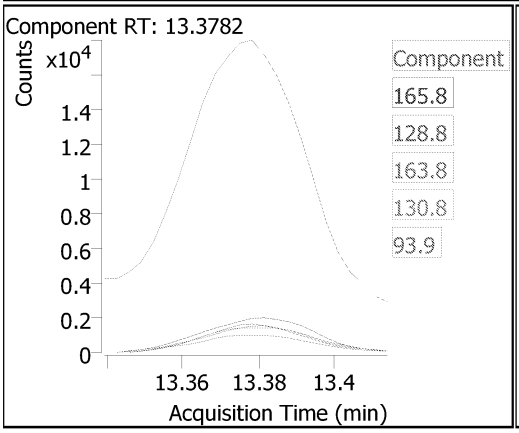



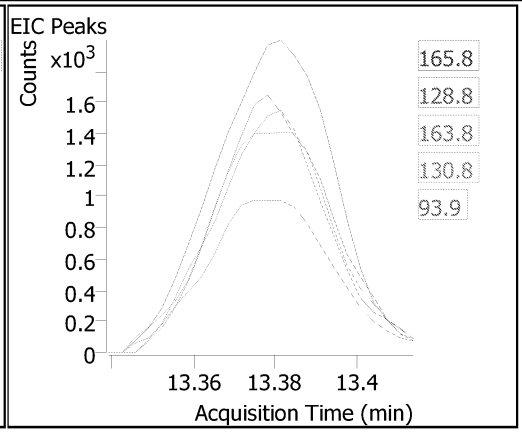
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3782 | Tetrachloroethylene | 33961.6 | 94.0 | 127-18-4 | C2Cl4 | 0.07348 |

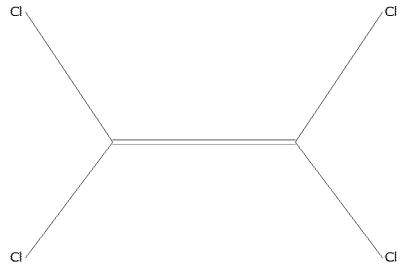


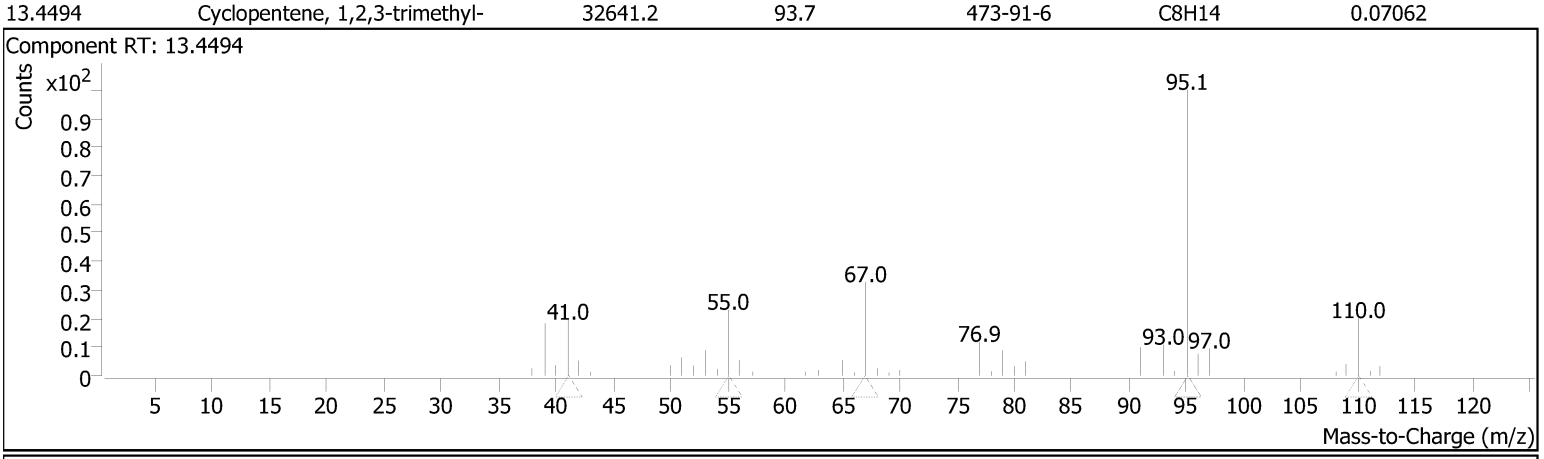



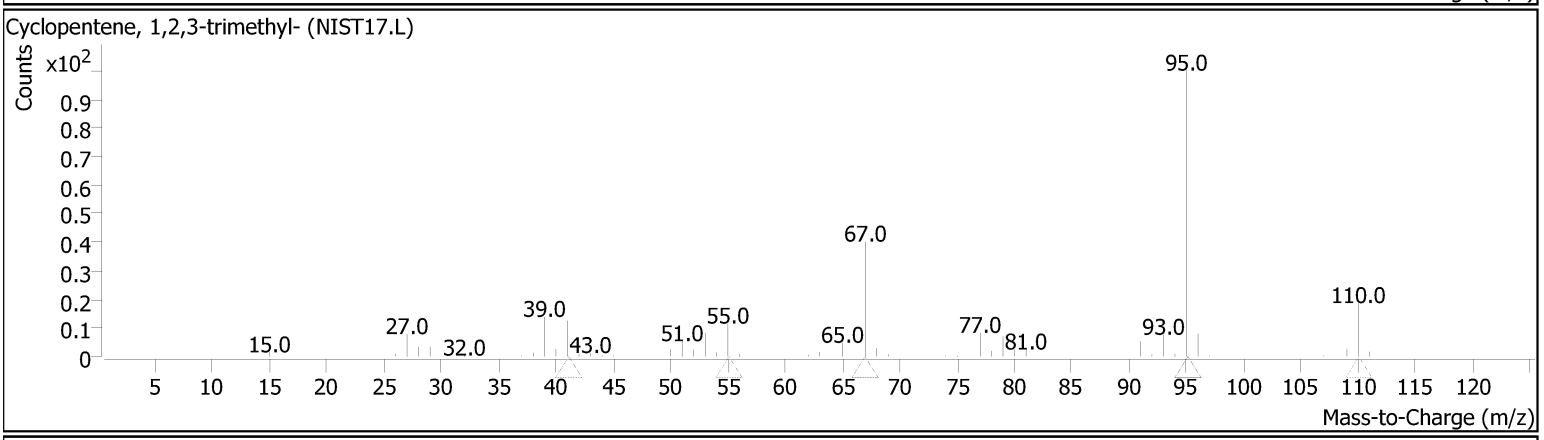



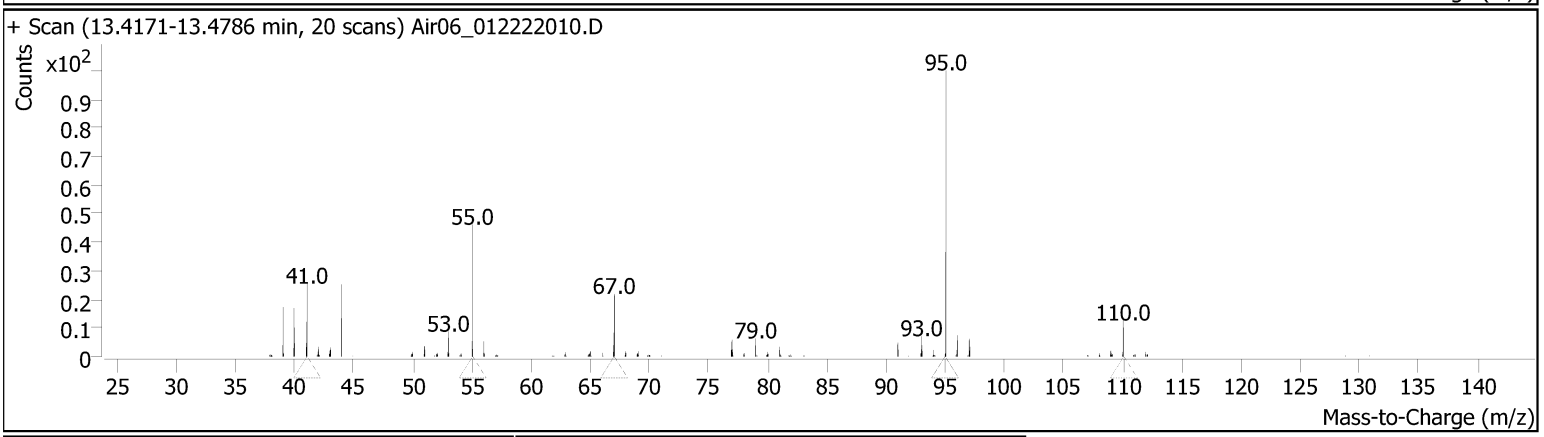



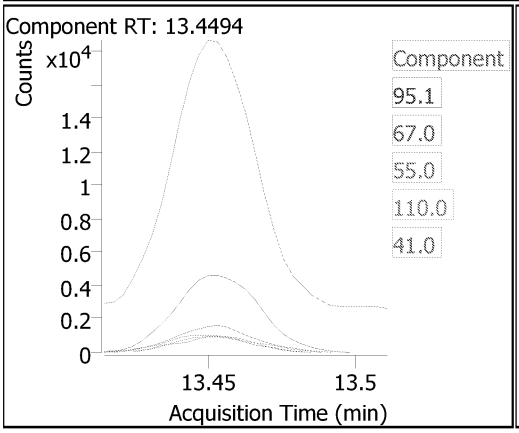



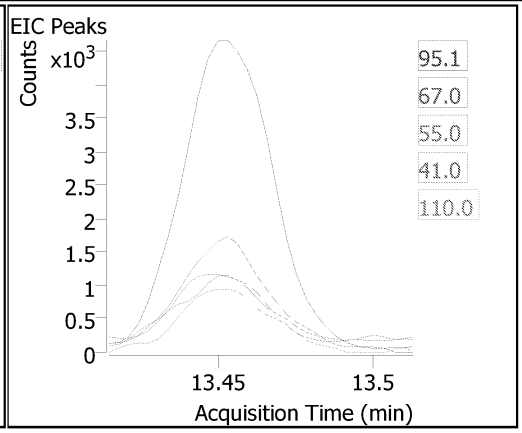
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.4494 | Cyclopentene, 1,2,3-trimethyl- | 32641.2 | 93.7 | 473-91-6 | C8H14 | 0.07062 |

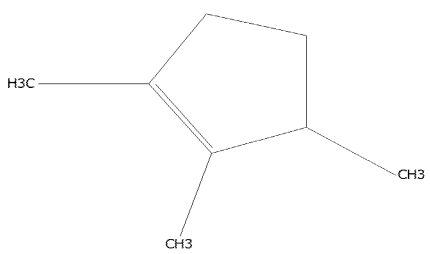


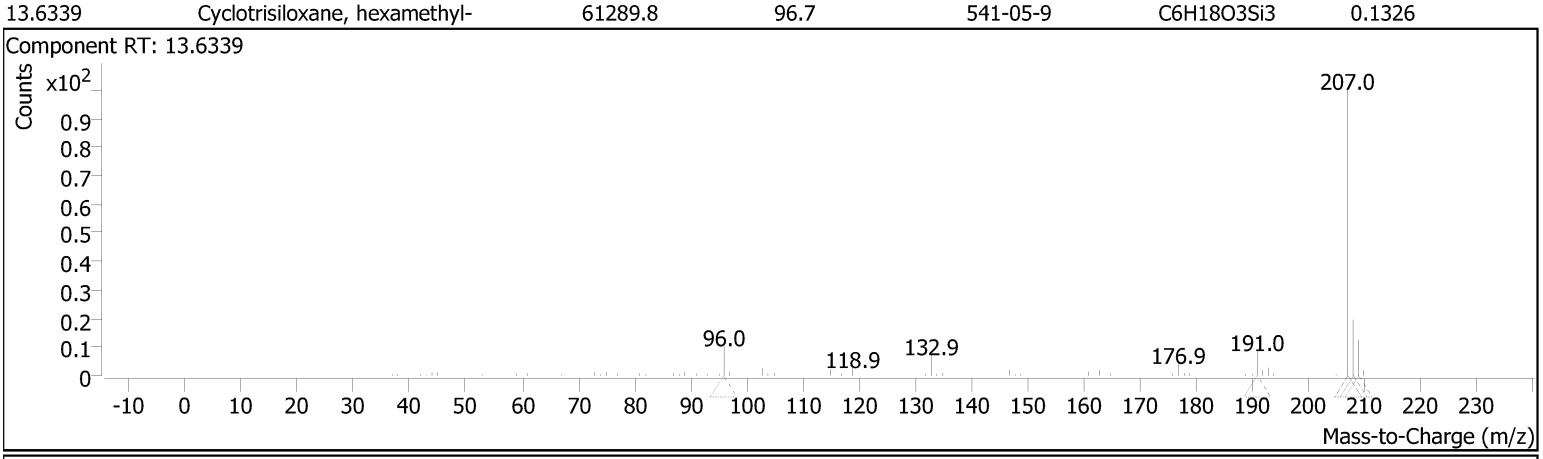



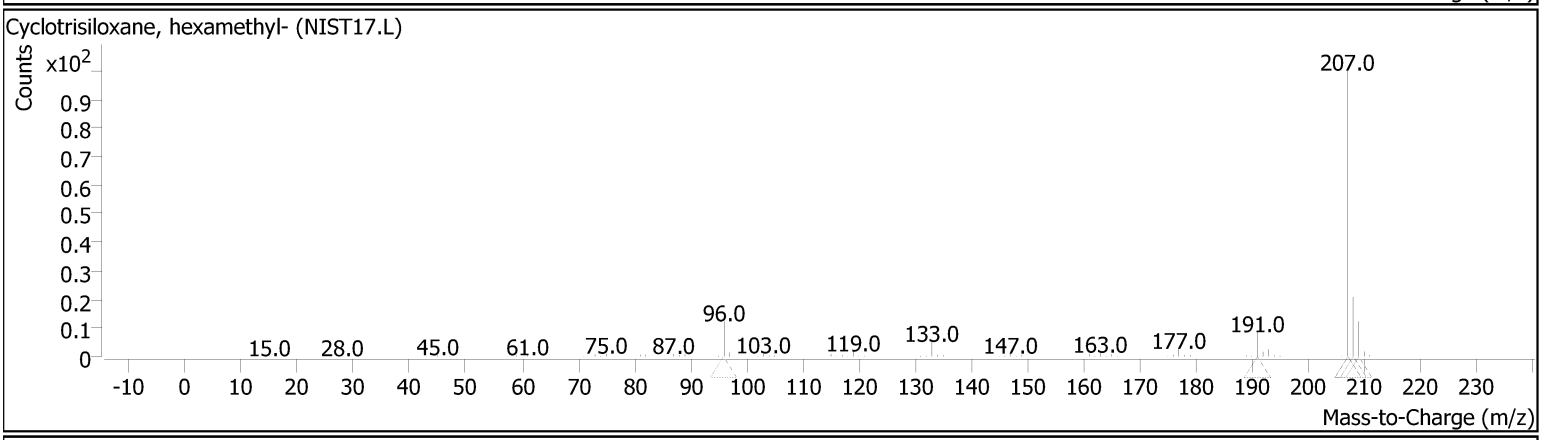



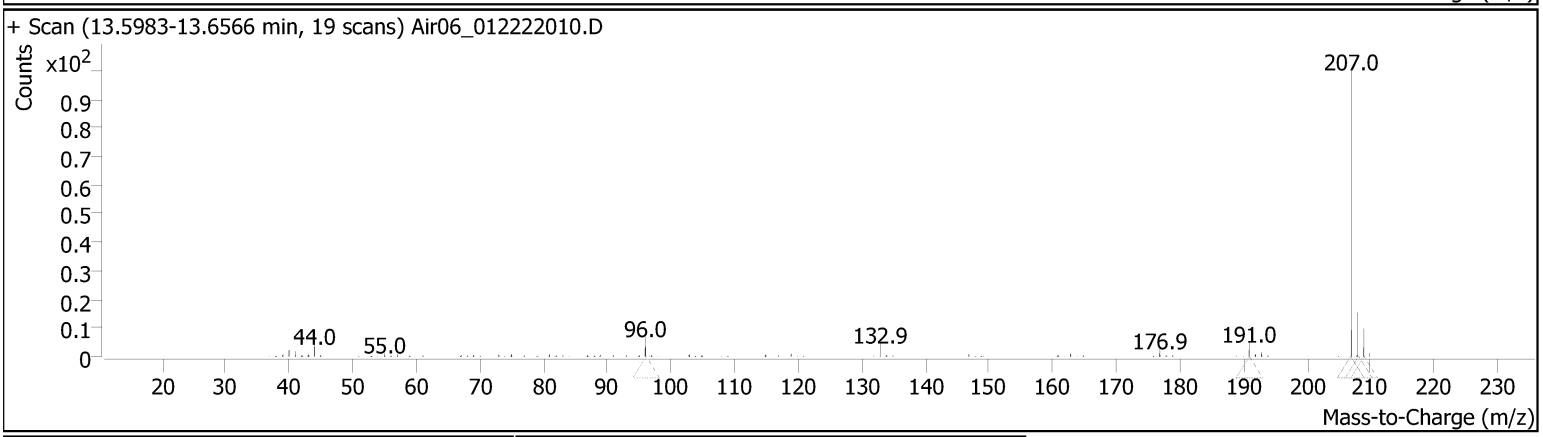



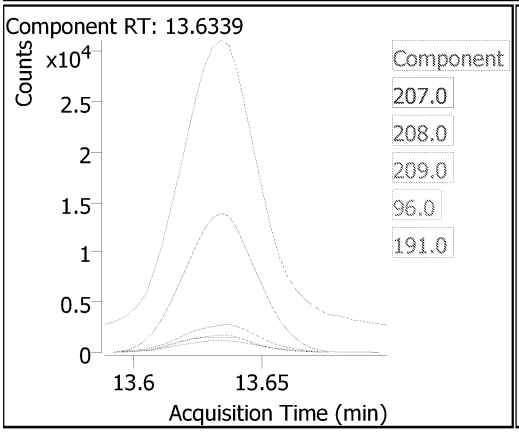



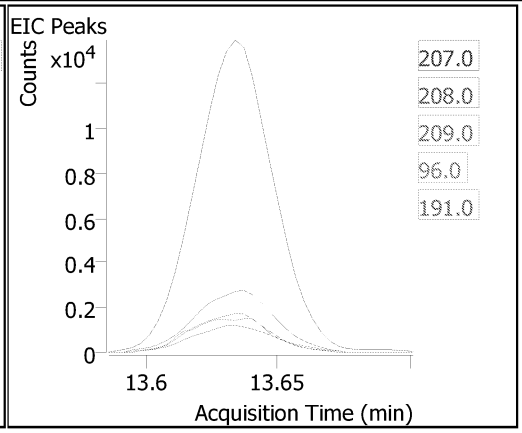
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.6339 | Cyclotrisiloxane, hexamethyl- | 61289.8 | 96.7 | 541-05-9 | C6H18O3Si3 | 0.1326 |

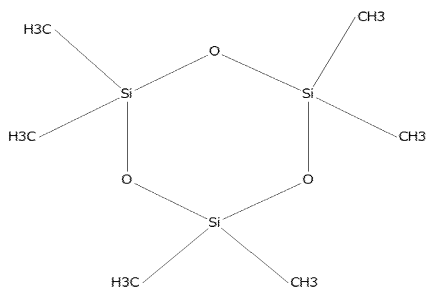


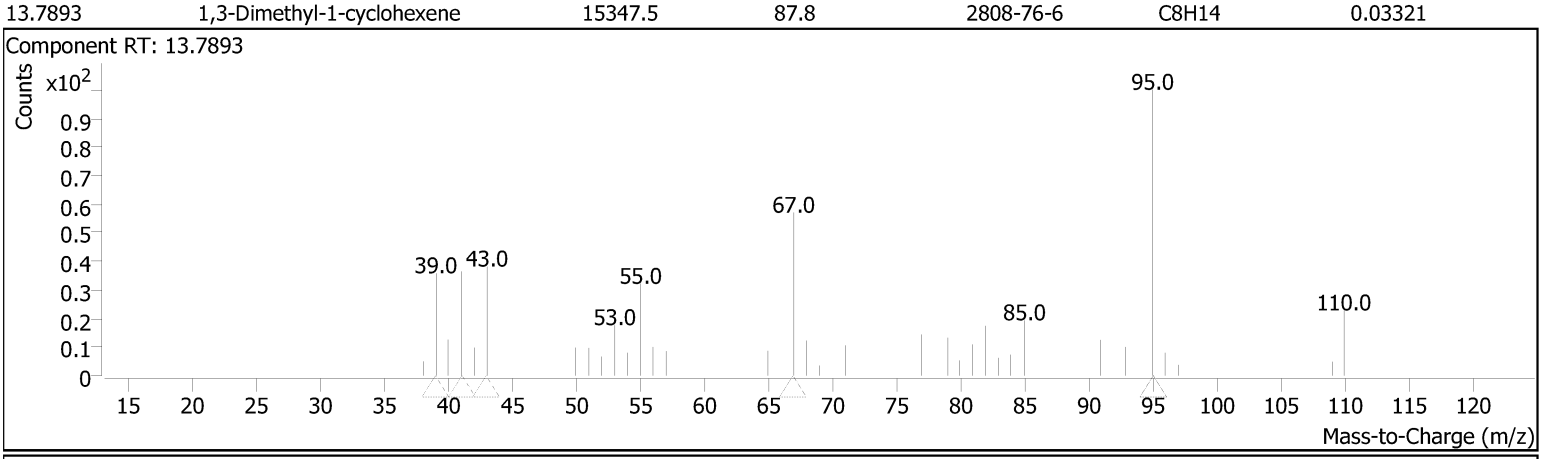



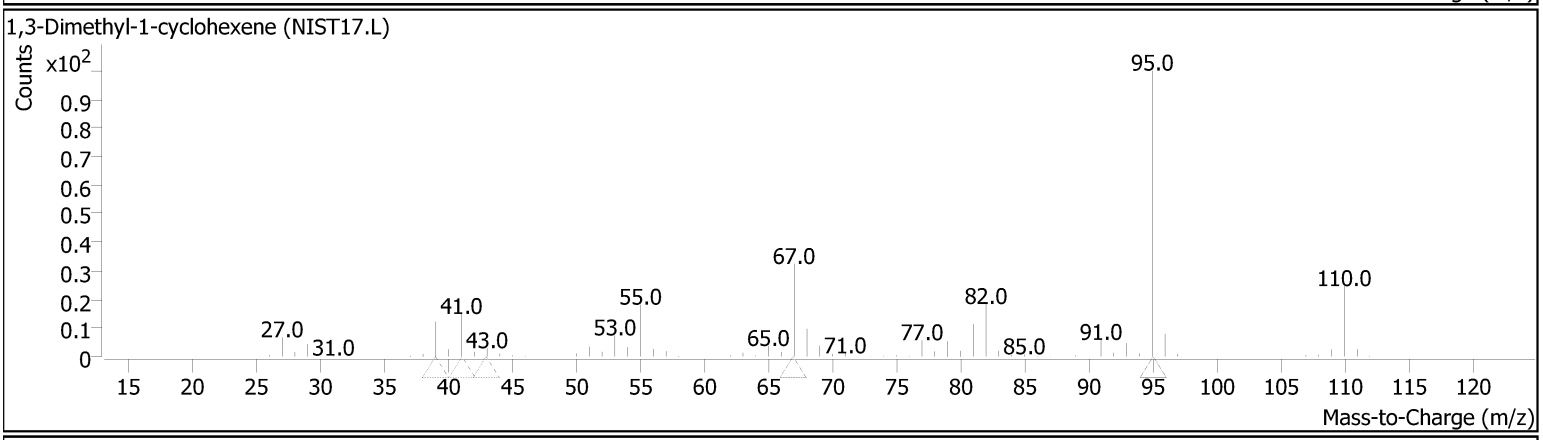



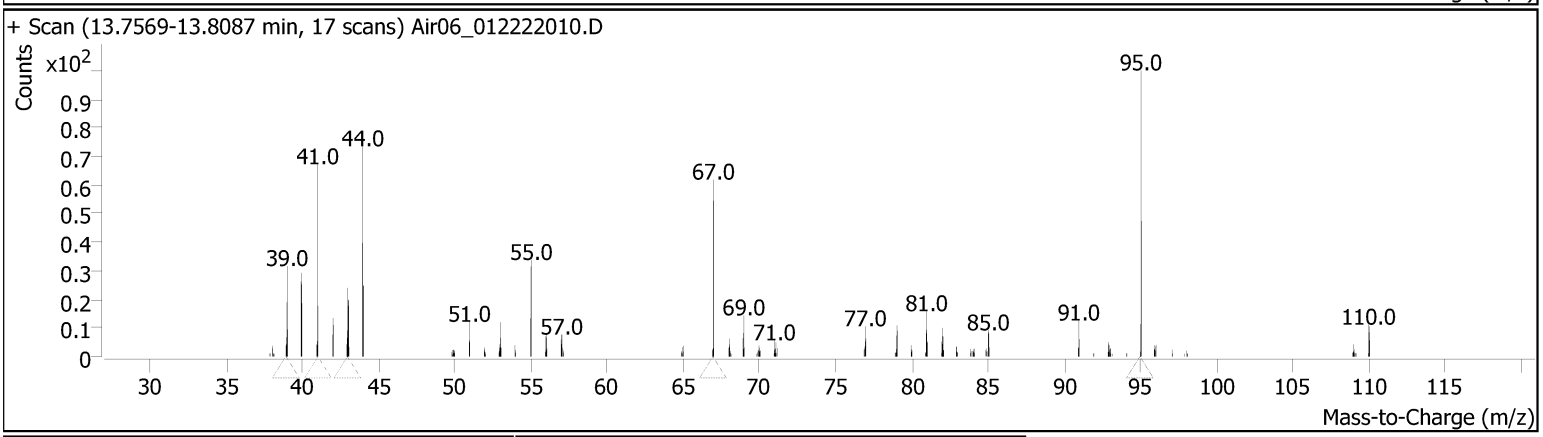



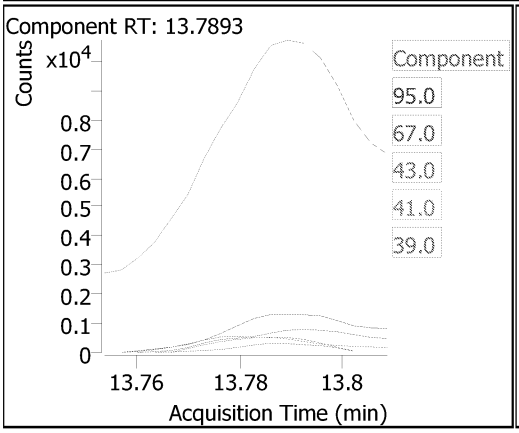



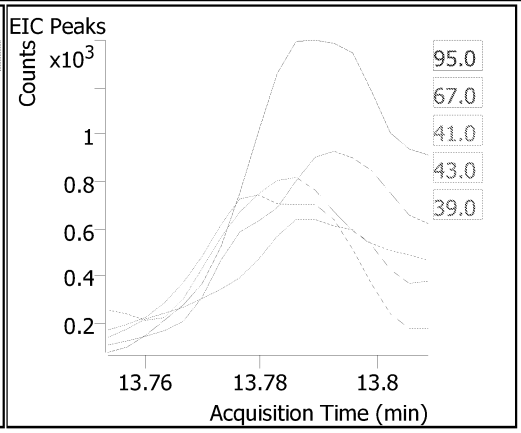
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.7893 | 1,3-Dimethyl-1-cyclohexene | 15347.5 | 87.8 | 2808-76-6 | C8H14 | 0.03321 |

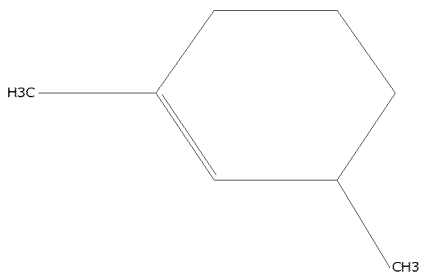


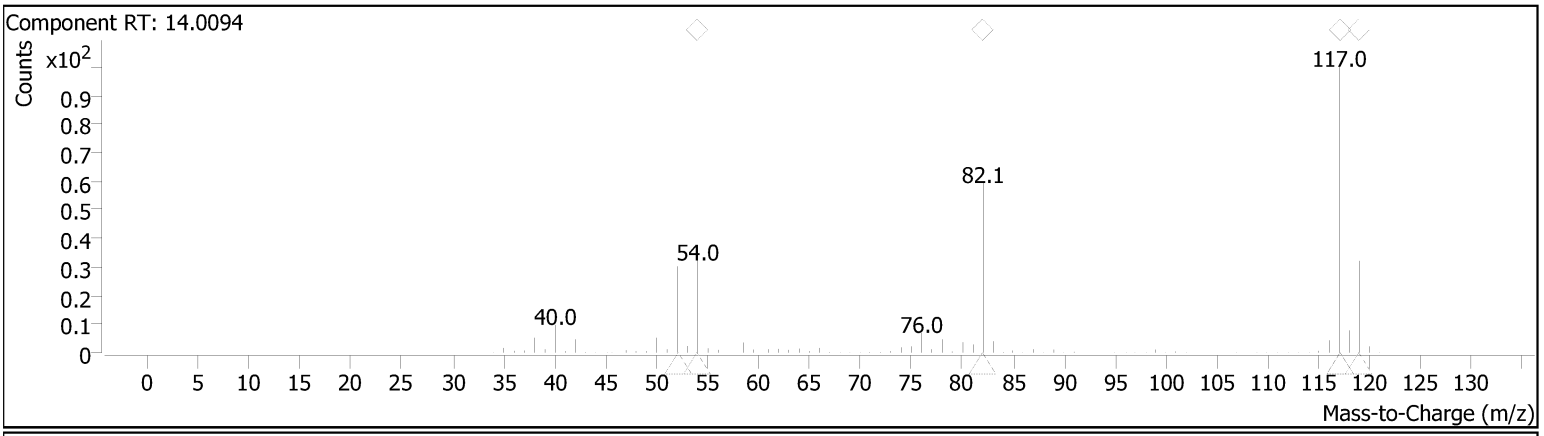



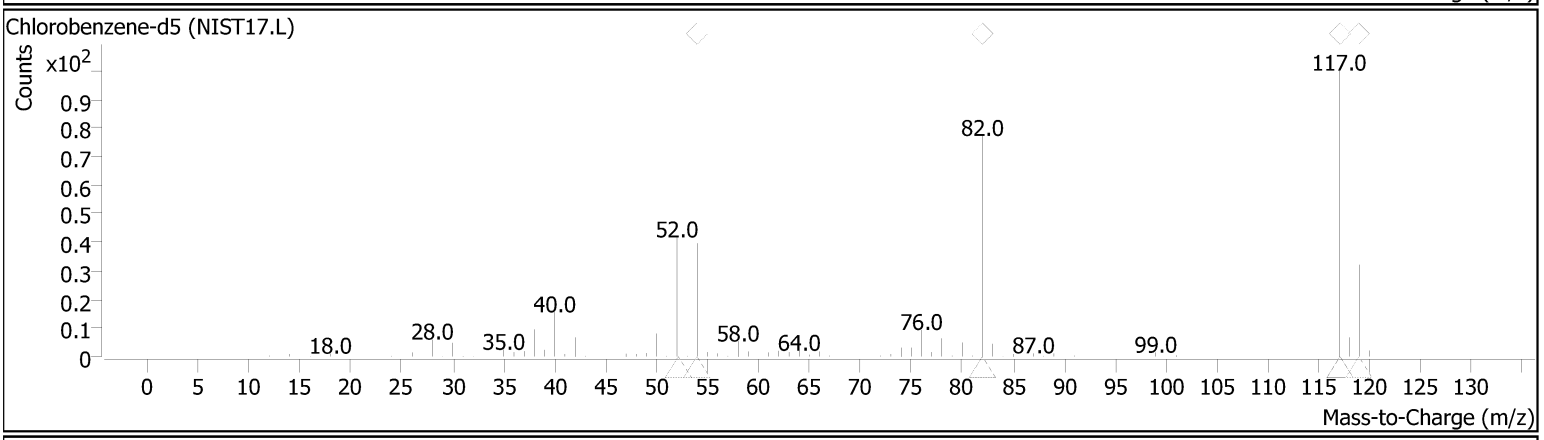



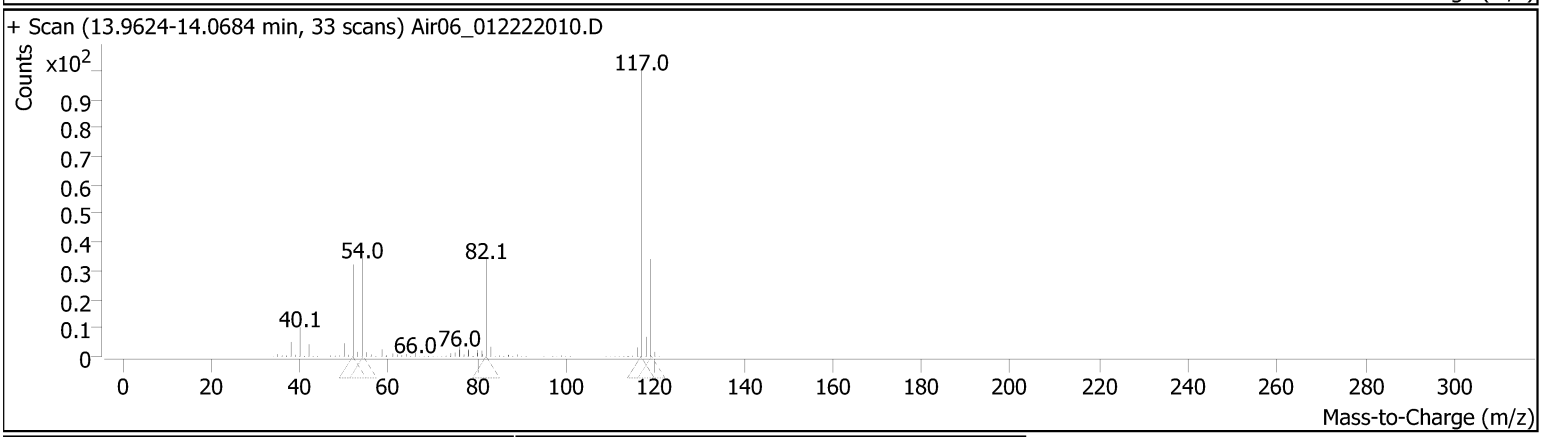



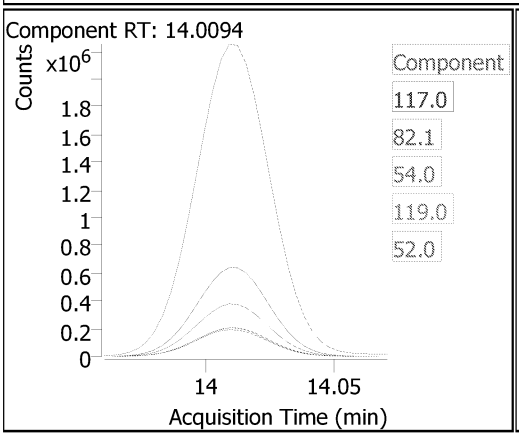



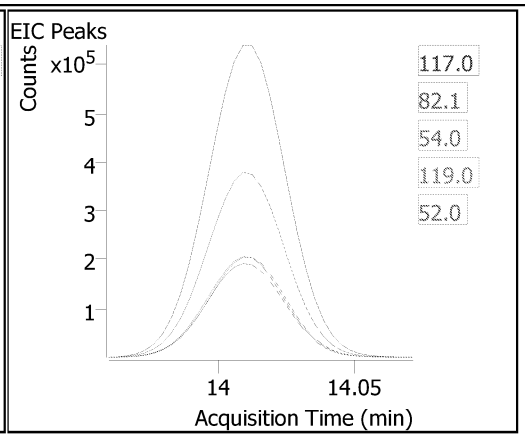
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0094 | Chlorobenzene-d5 | 4621804.7 | 95.8 | 3114-55-4 | C6D5Cl | 10 |

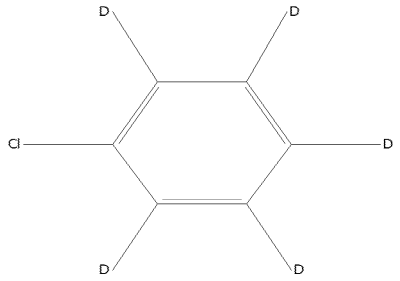


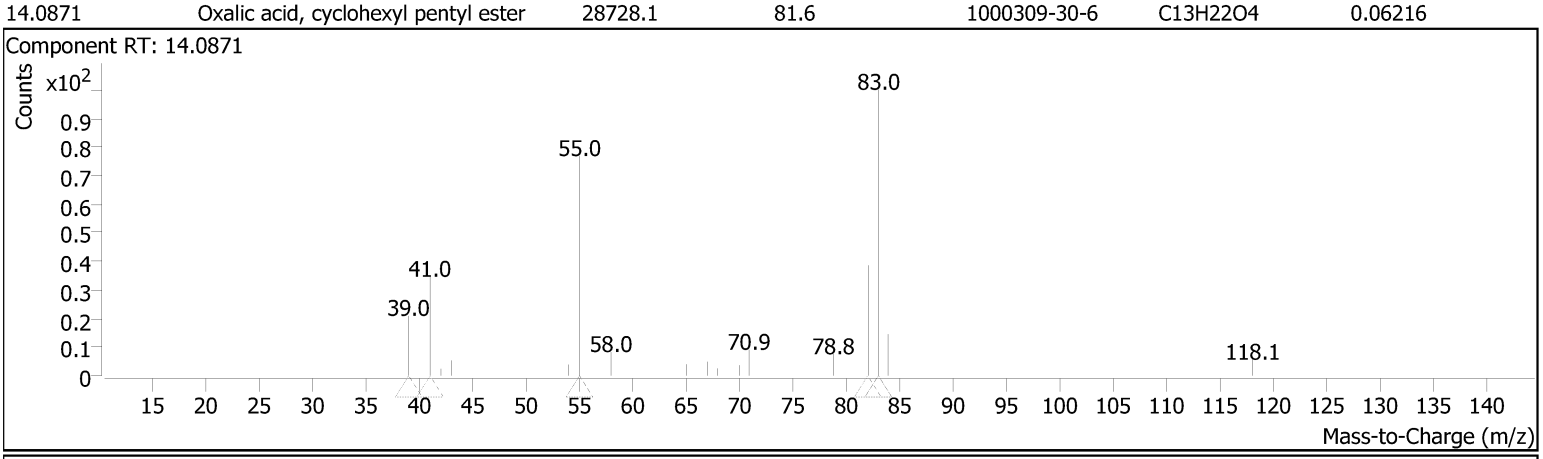



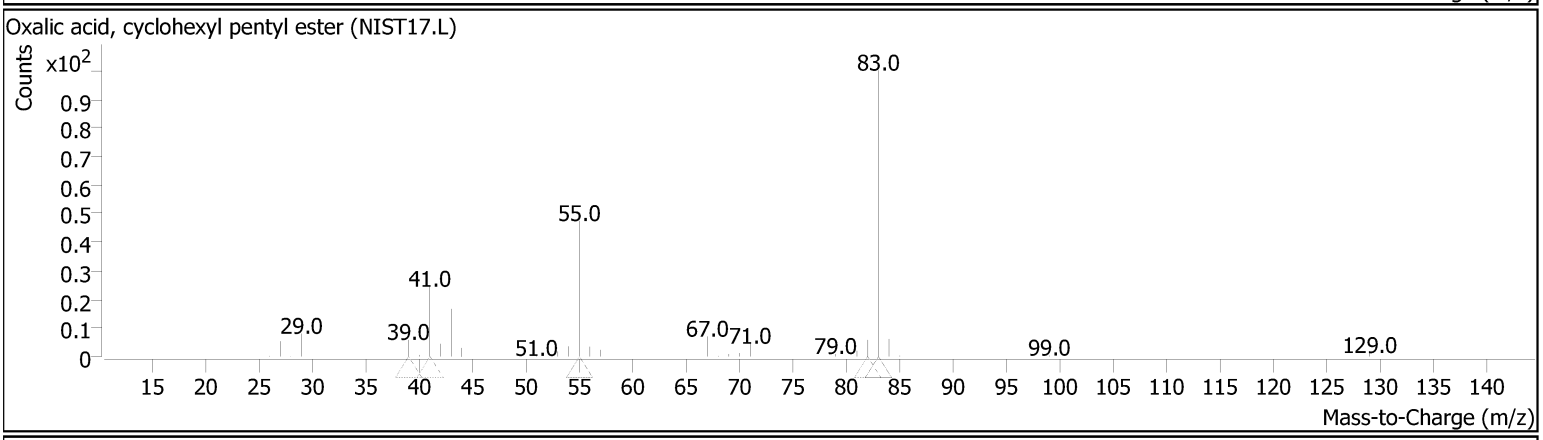



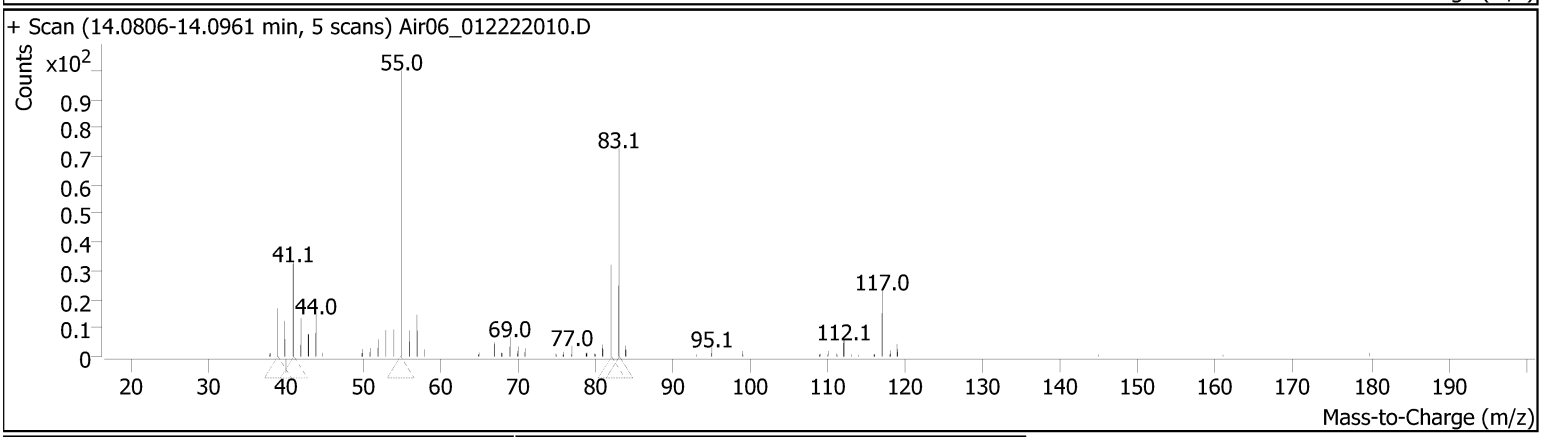



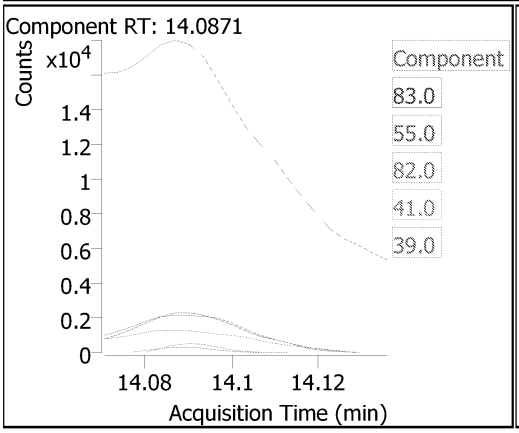



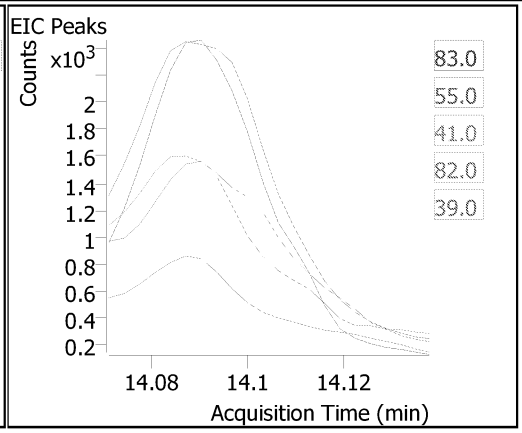
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0871 | Oxalic acid, cyclohexyl pentyl ester | 28728.1 | 81.6 | 1000309-30-6 | C13H22O4 | 0.06216 |

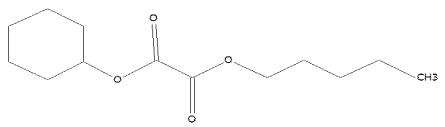


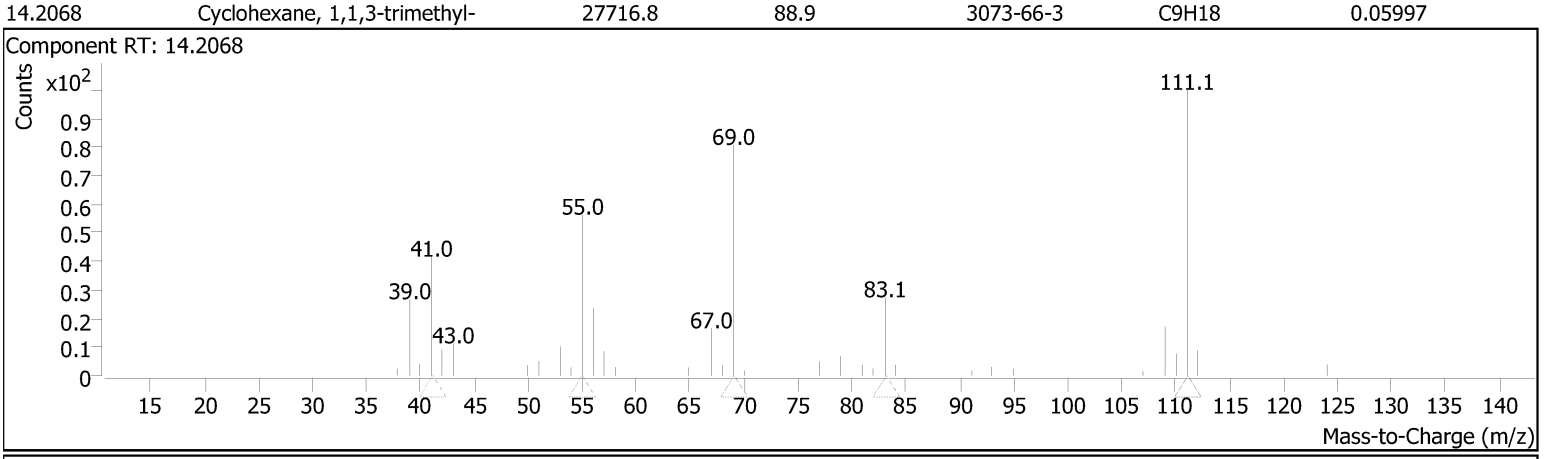



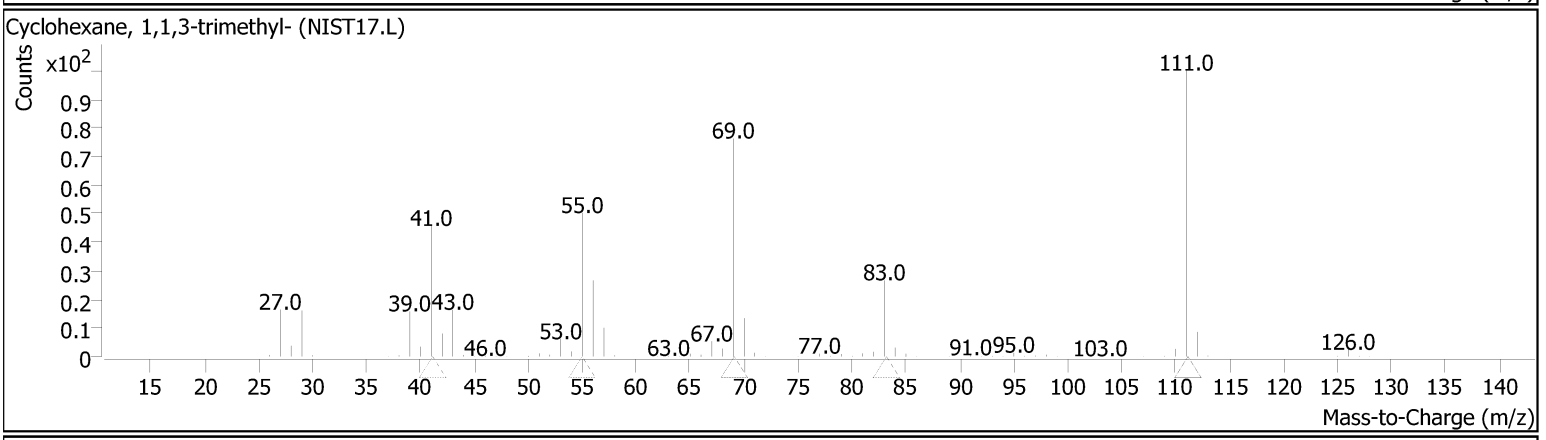



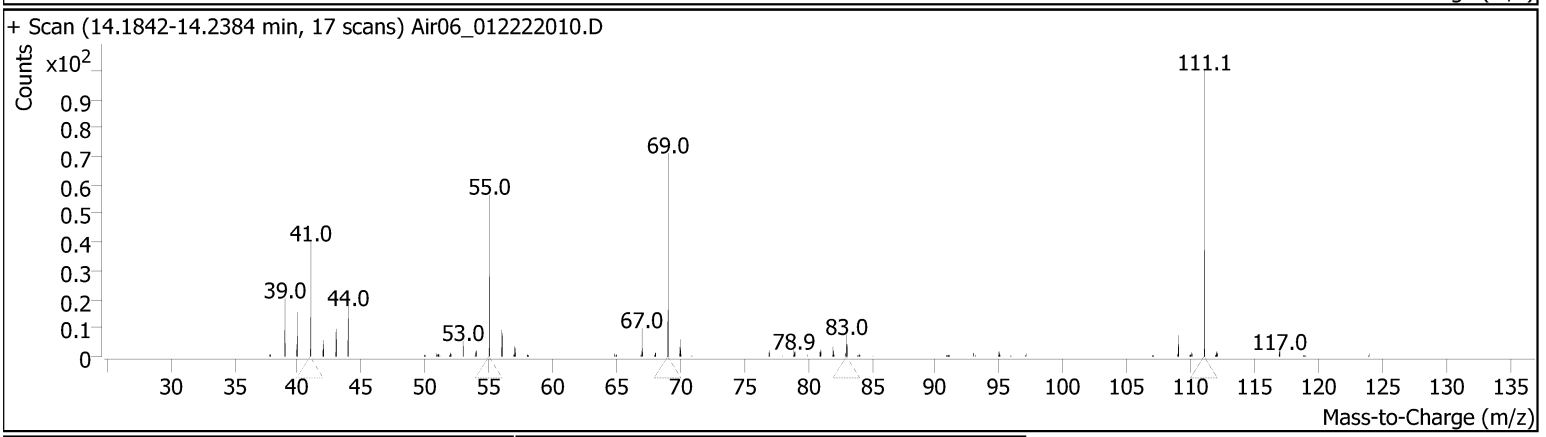



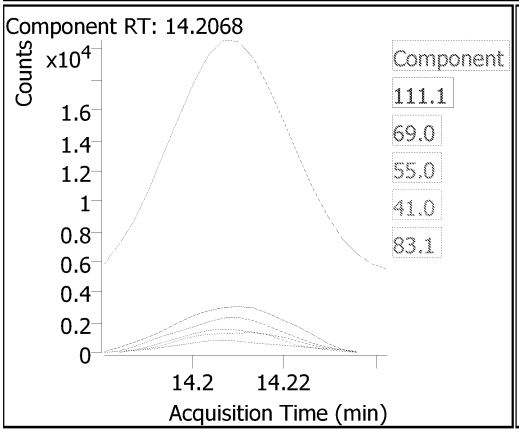



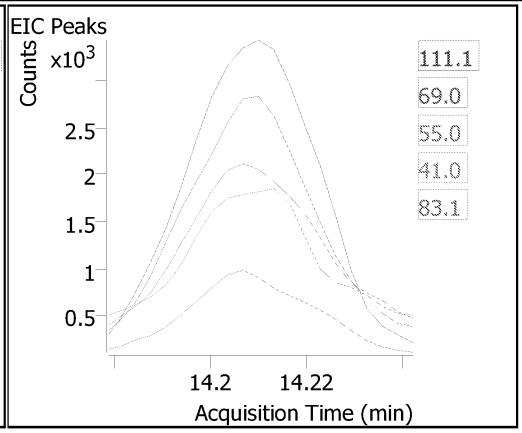
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.2068 | Cyclohexane, 1,1,3-trimethyl- | 27716.8 | 88.9 | 3073-66-3 | C9H18 | 0.05997 |

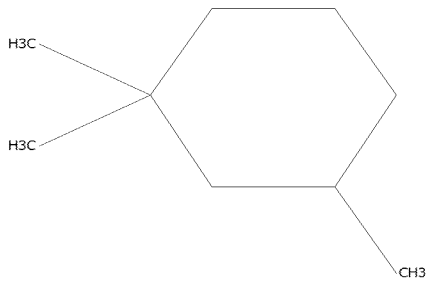


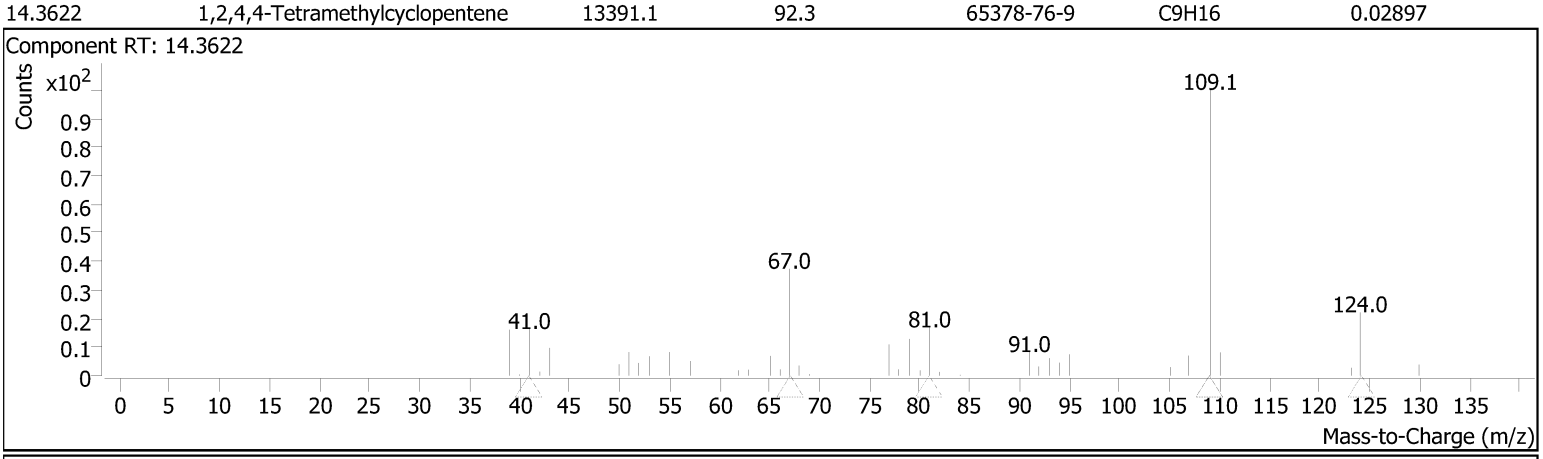



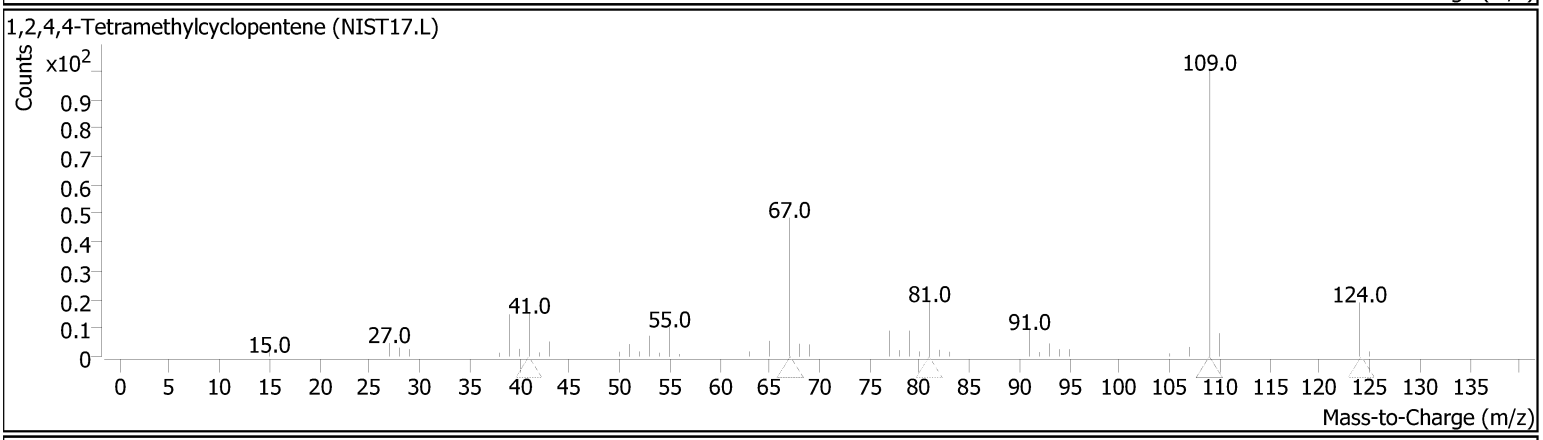



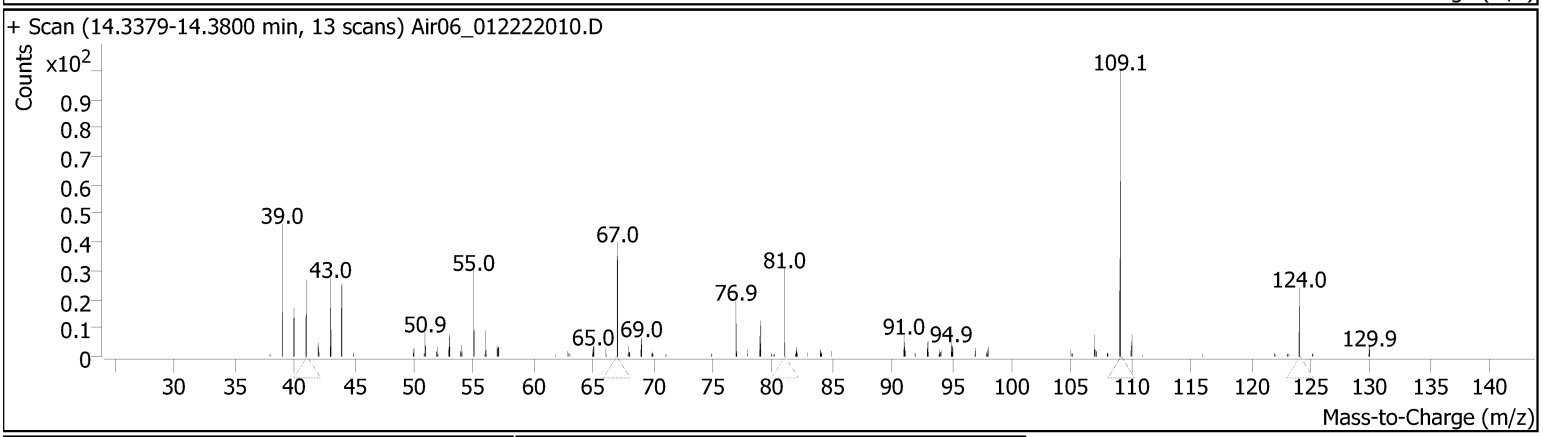



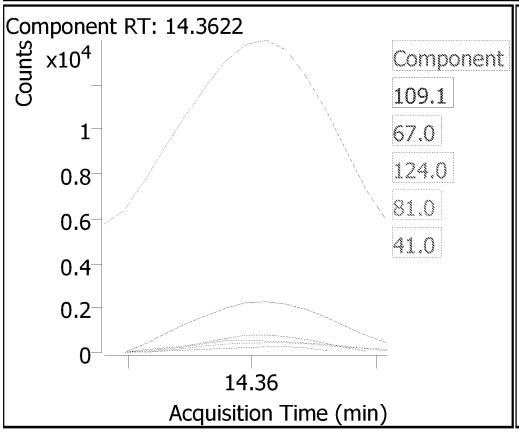



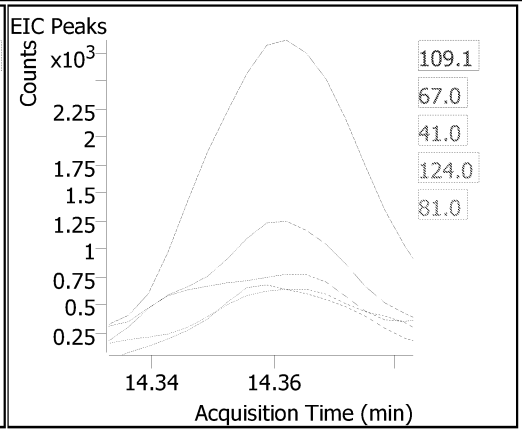
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.3622 | 1,2,4,4-Tetramethylcyclopentene | 13391.1 | 92.3 | 65378-76-9 | C9H16 | 0.02897 |

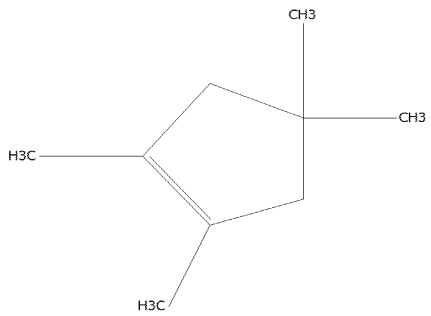


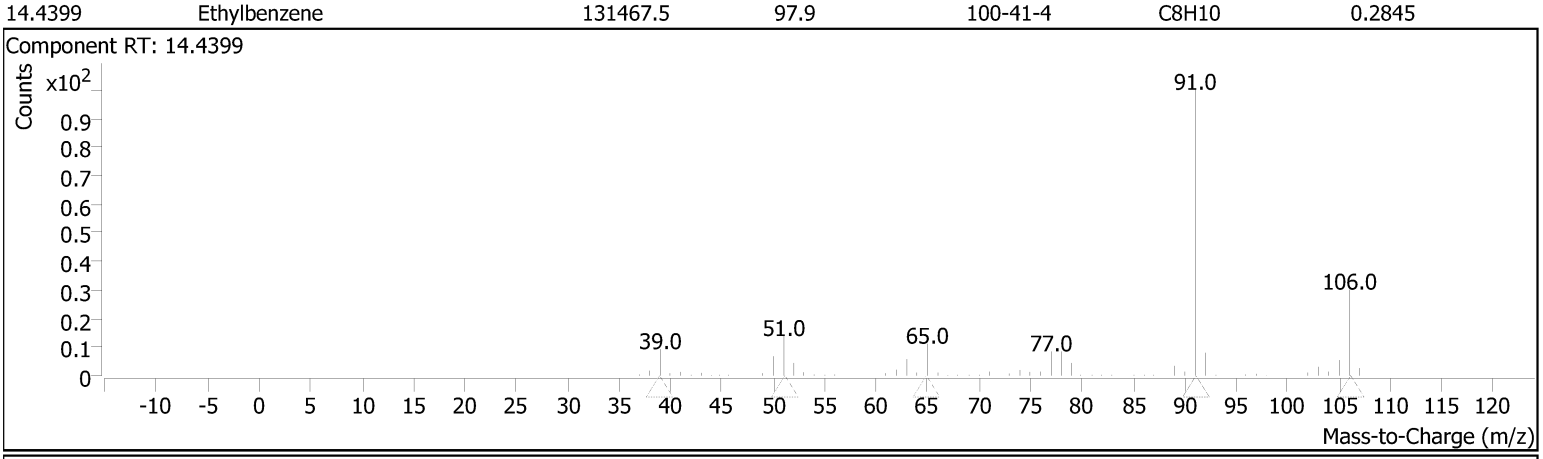



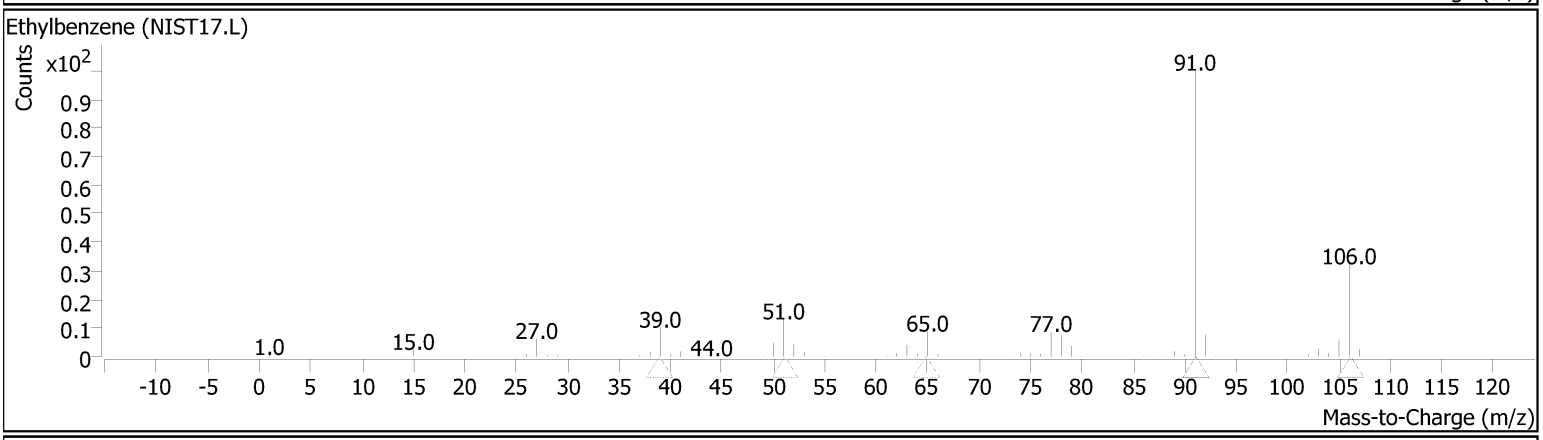



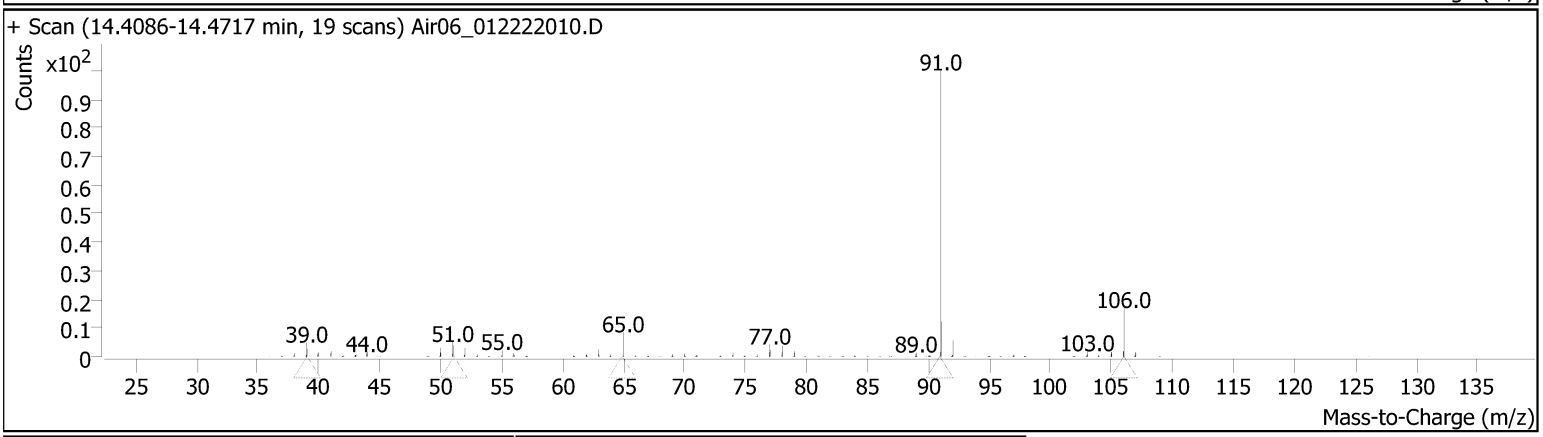



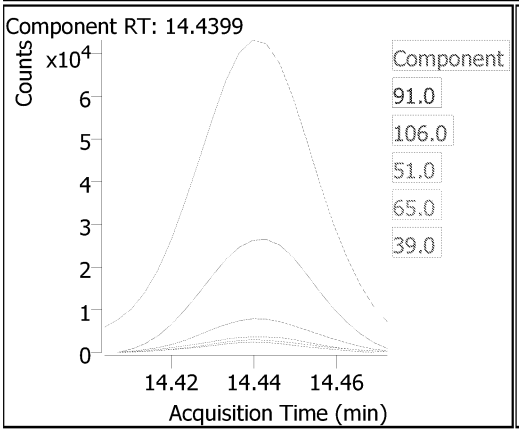



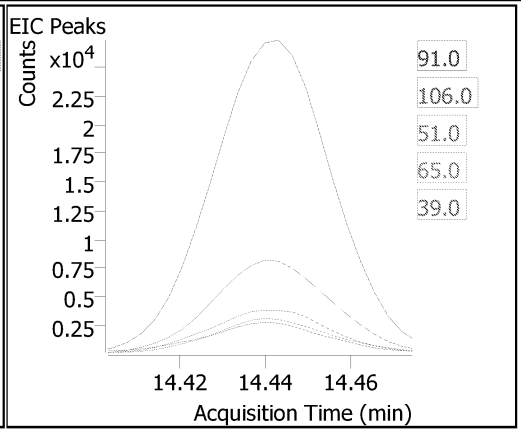
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.4399 | Ethylbenzene | 131467.5 | 97.9 | 100-41-4 | C8H10 | 0.2845 |

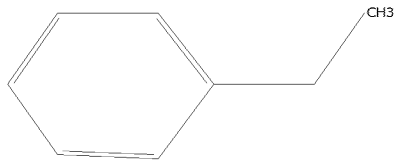


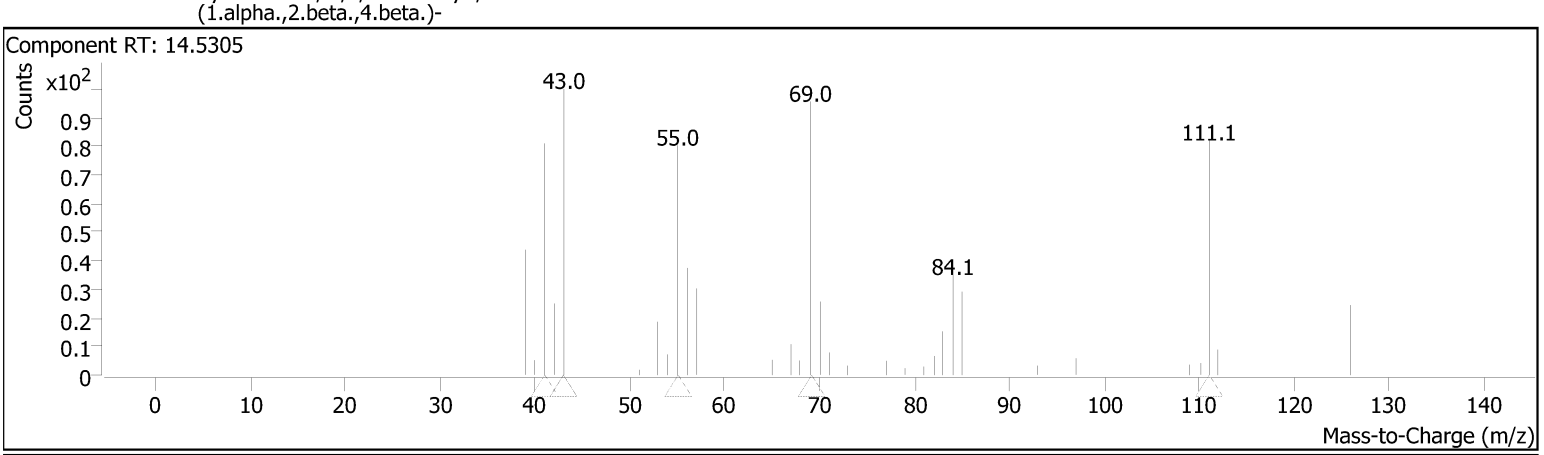



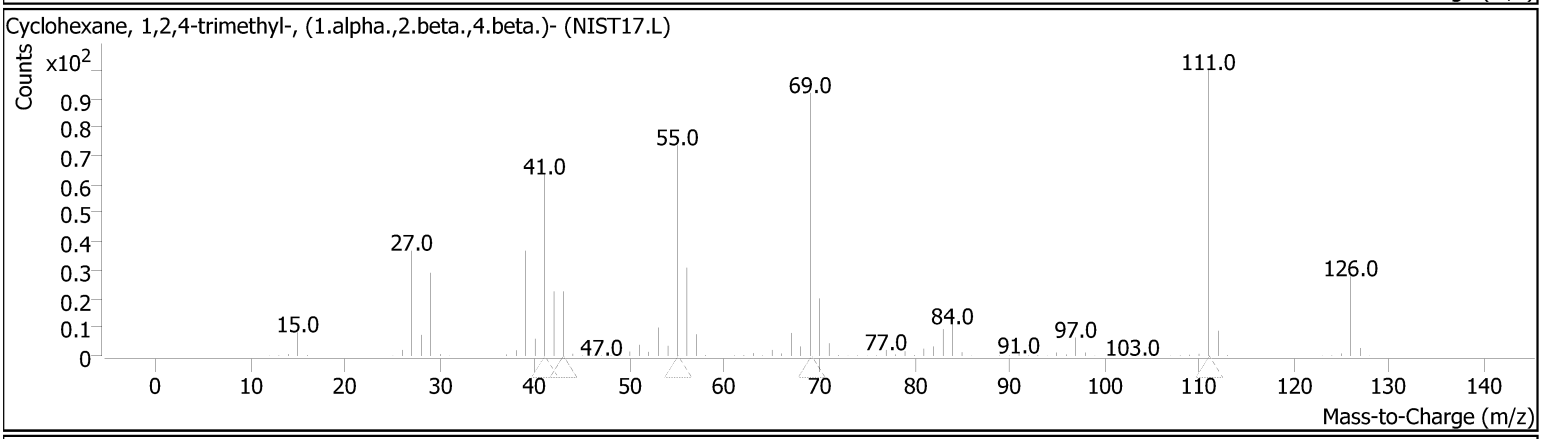



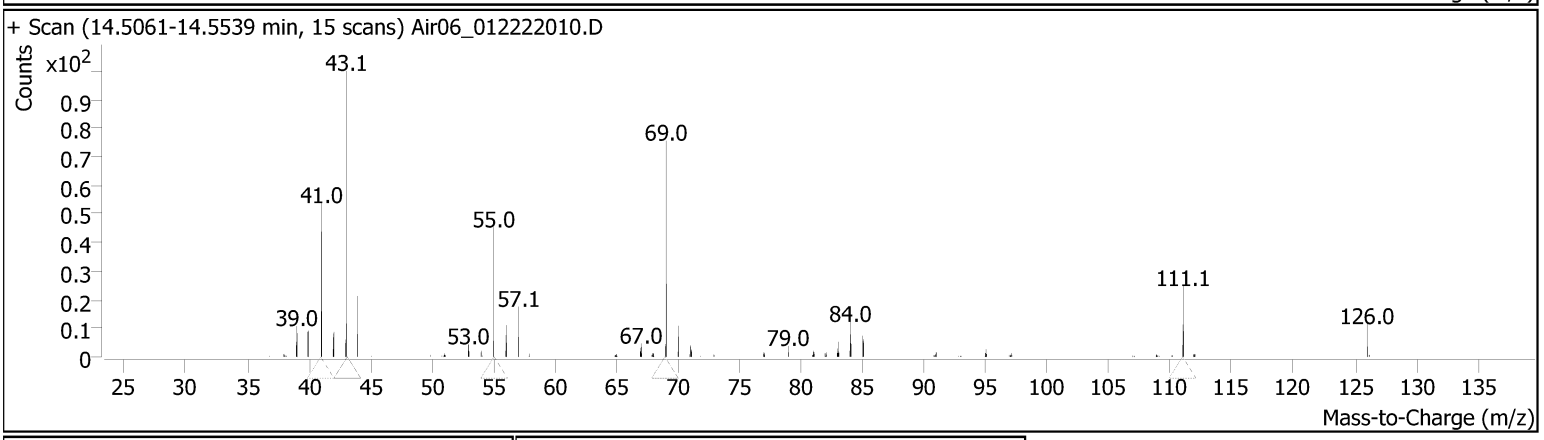



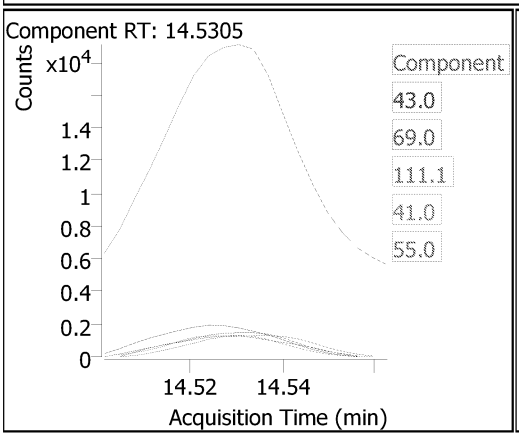



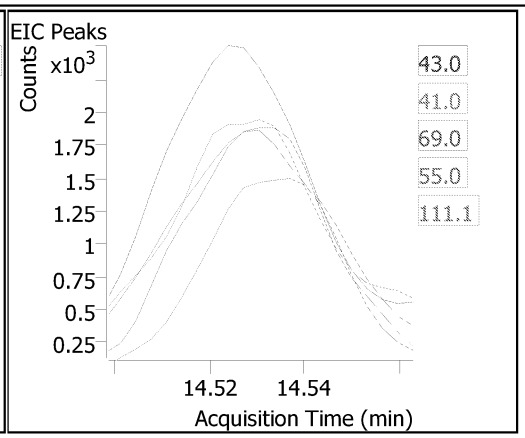
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.5305 | Cyclohexane, 1,2,4-trimethyl-, (1.alpha.,2.beta.,4.beta.)- | 26130.9 | 90.4 | 7667-60-9 | C9H18 | 0.05654 |

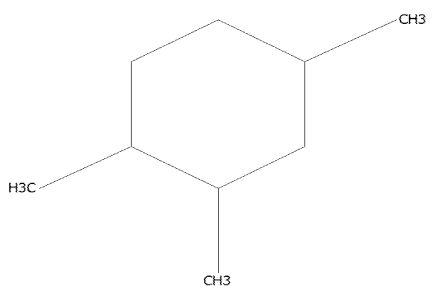


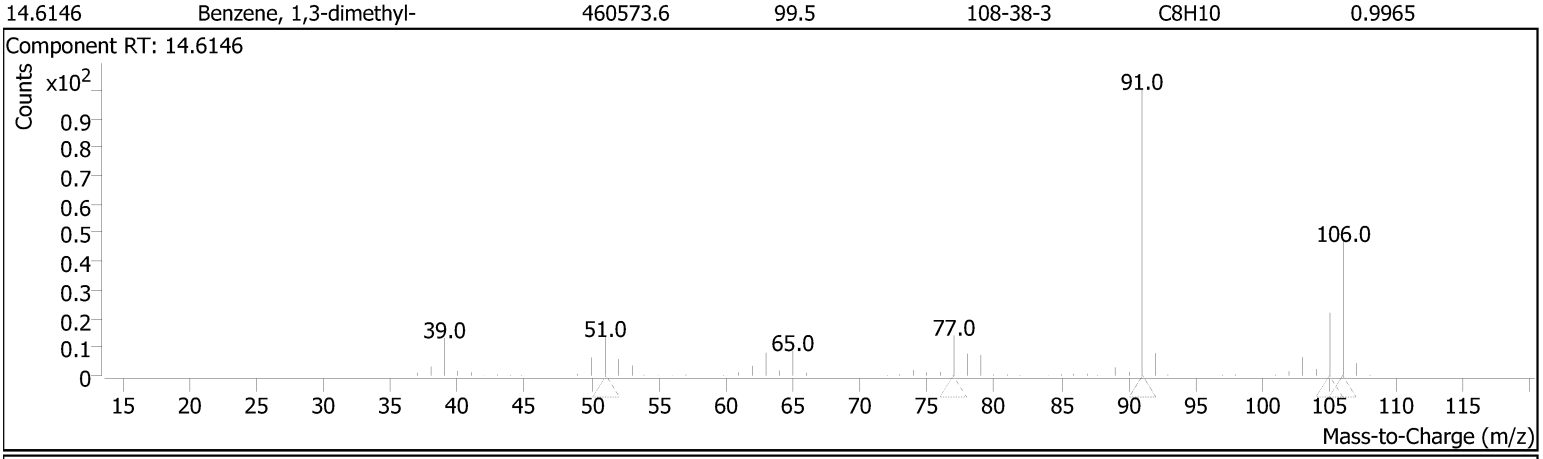



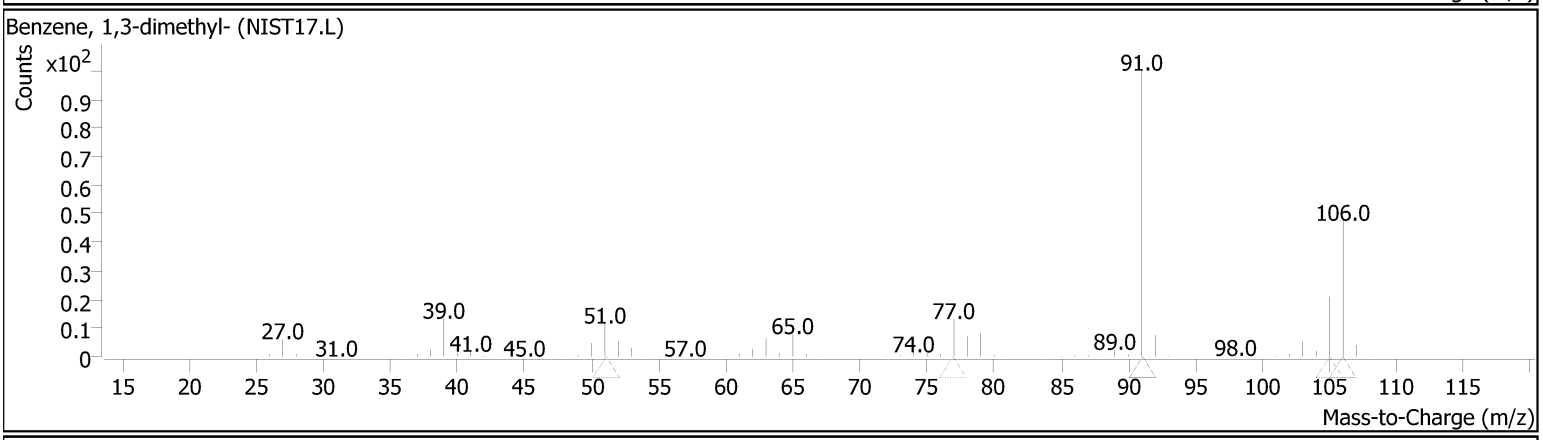



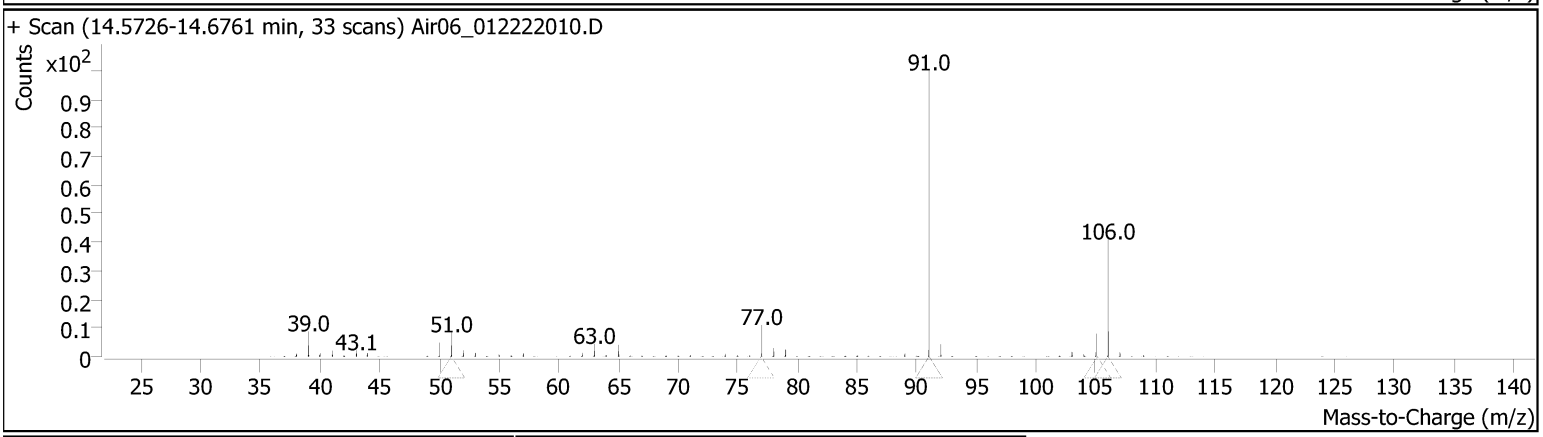



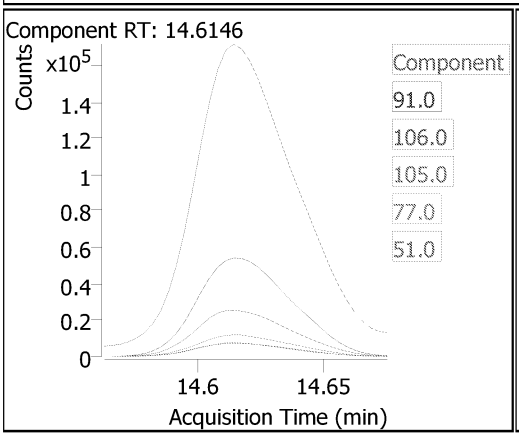



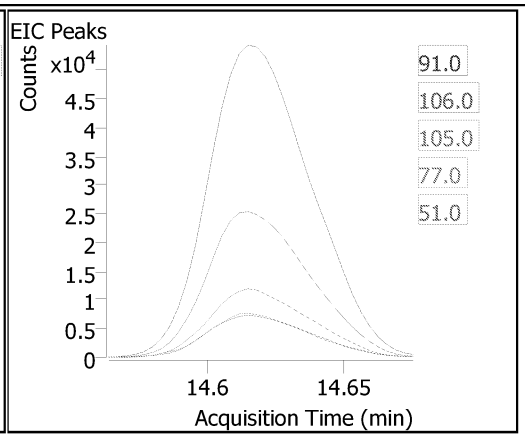
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.6146 | Benzene, 1,3-dimethyl- | 460573.6 | 99.5 | 108-38-3 | C8H10 | 0.9965 |

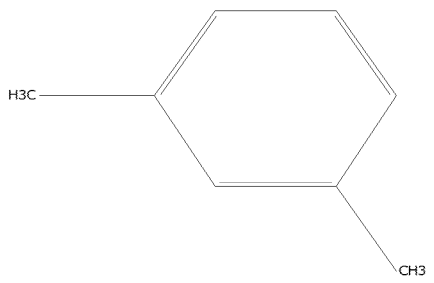


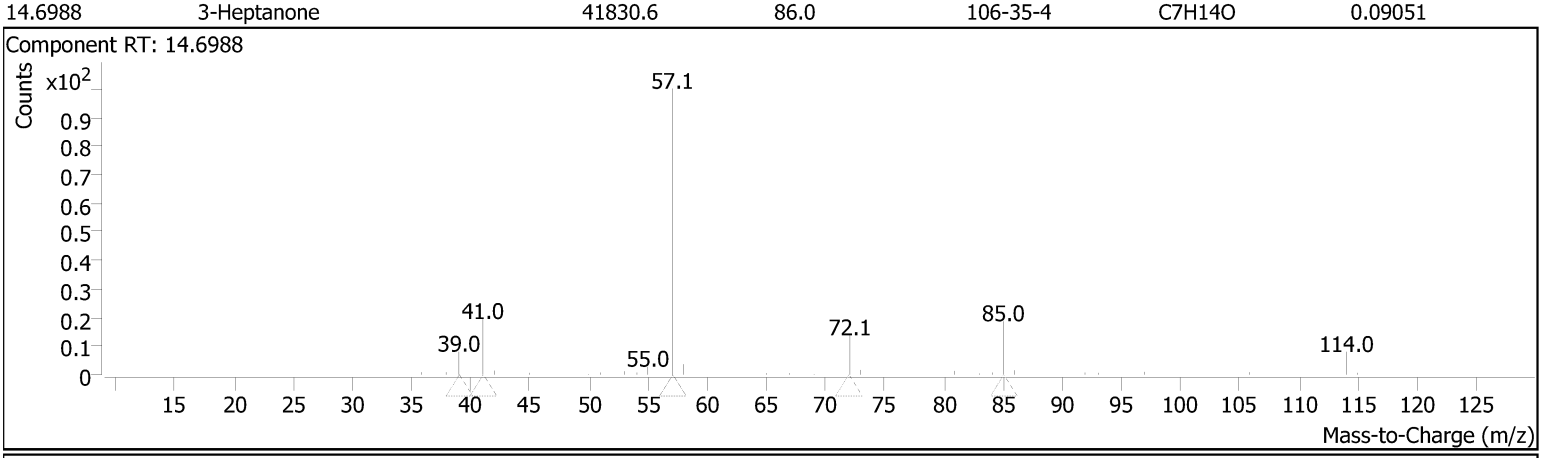



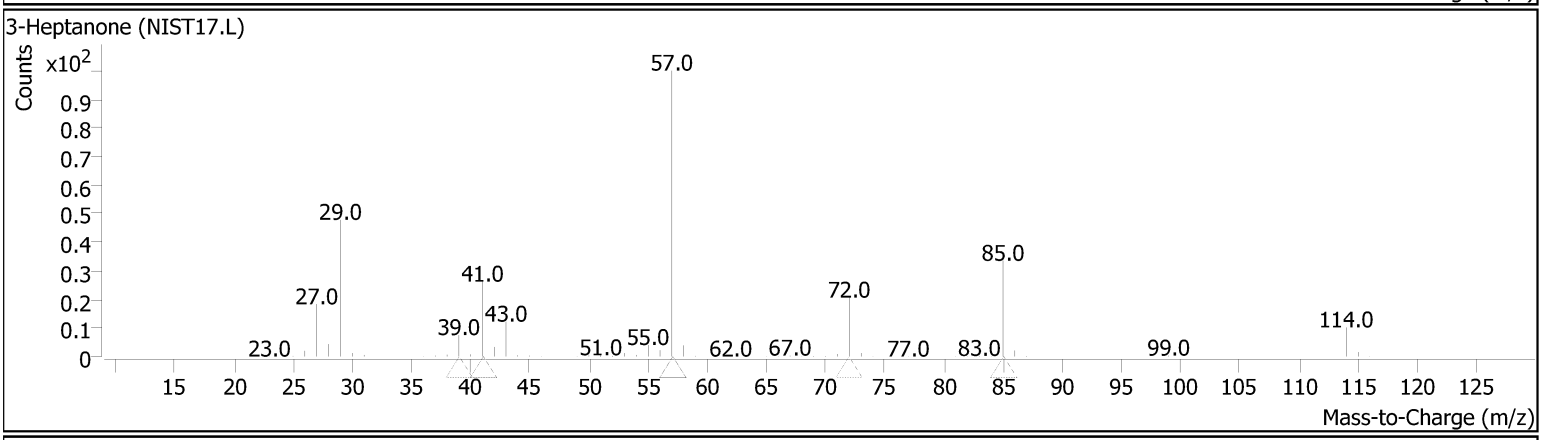



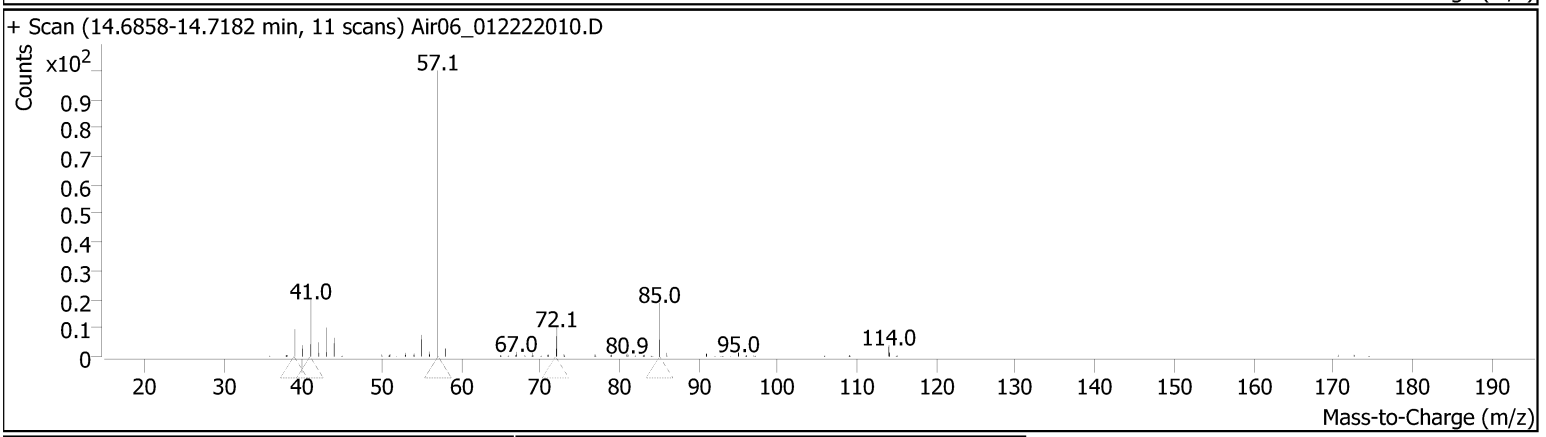



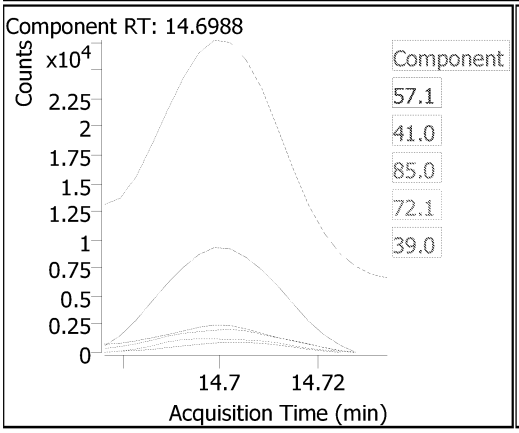



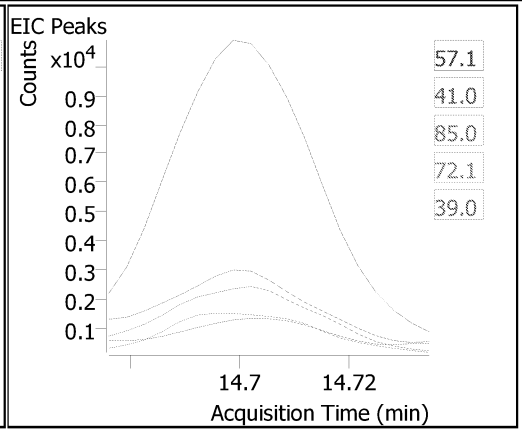
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.6988 | 3-Heptanone | 41830.6 | 86.0 | 106-35-4 | C7H14O | 0.09051 |

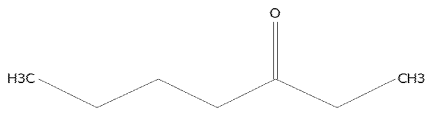


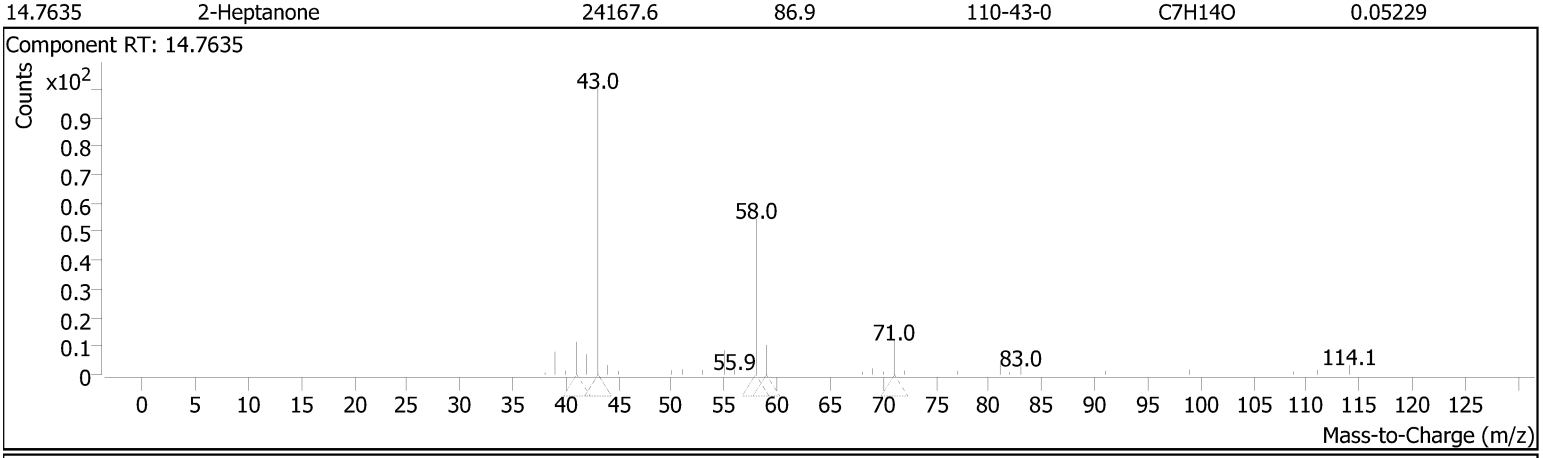



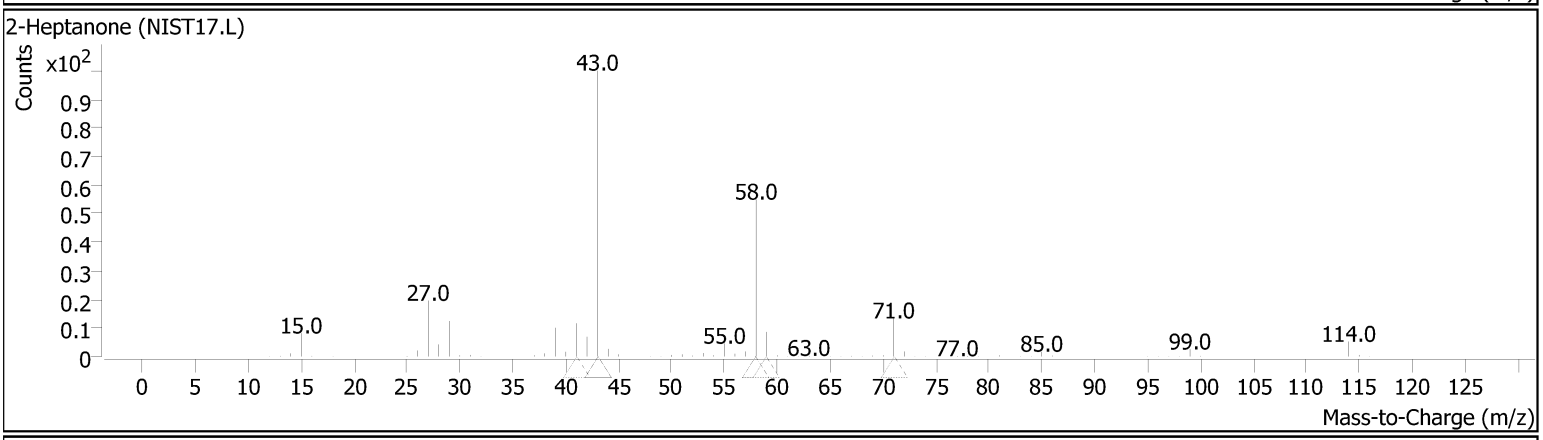



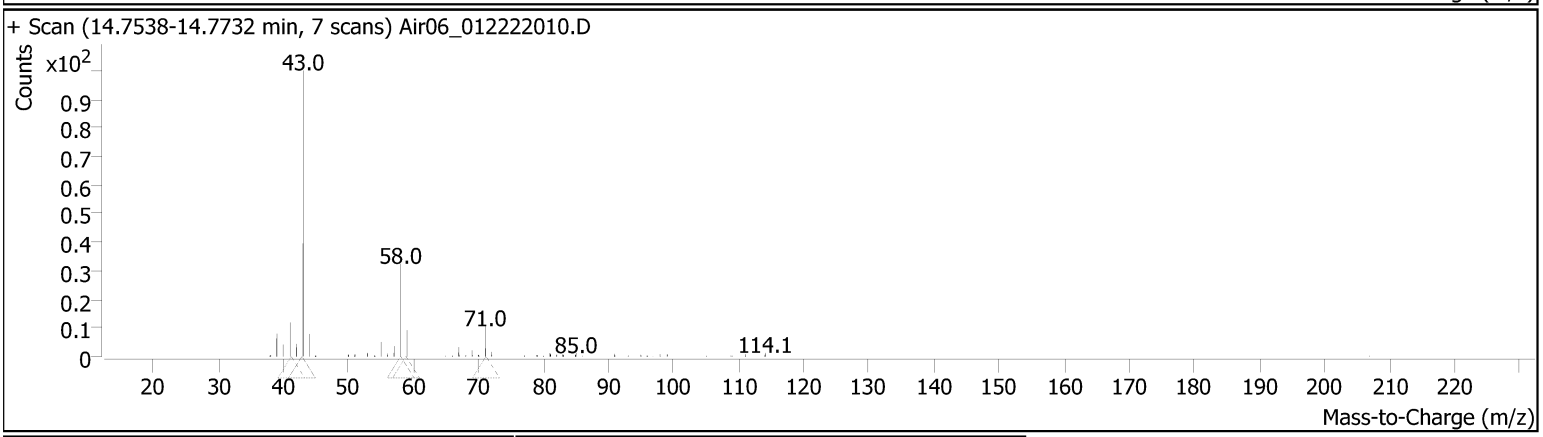



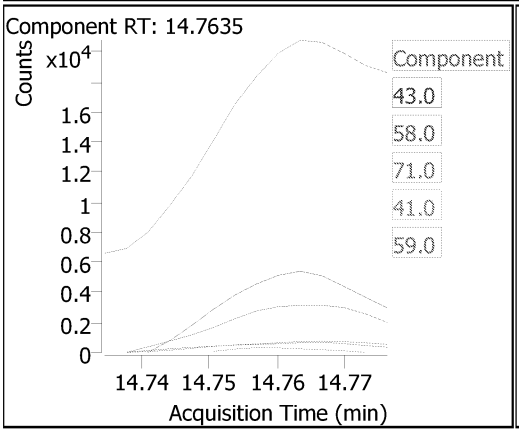



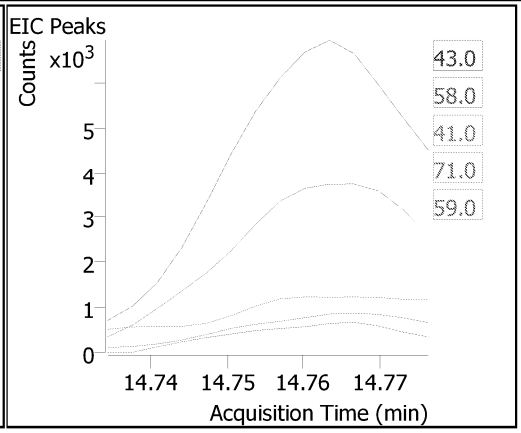
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.7635 | 2-Heptanone | 24167.6 | 86.9 | 110-43-0 | C7H14O | 0.05229 |

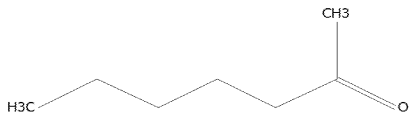


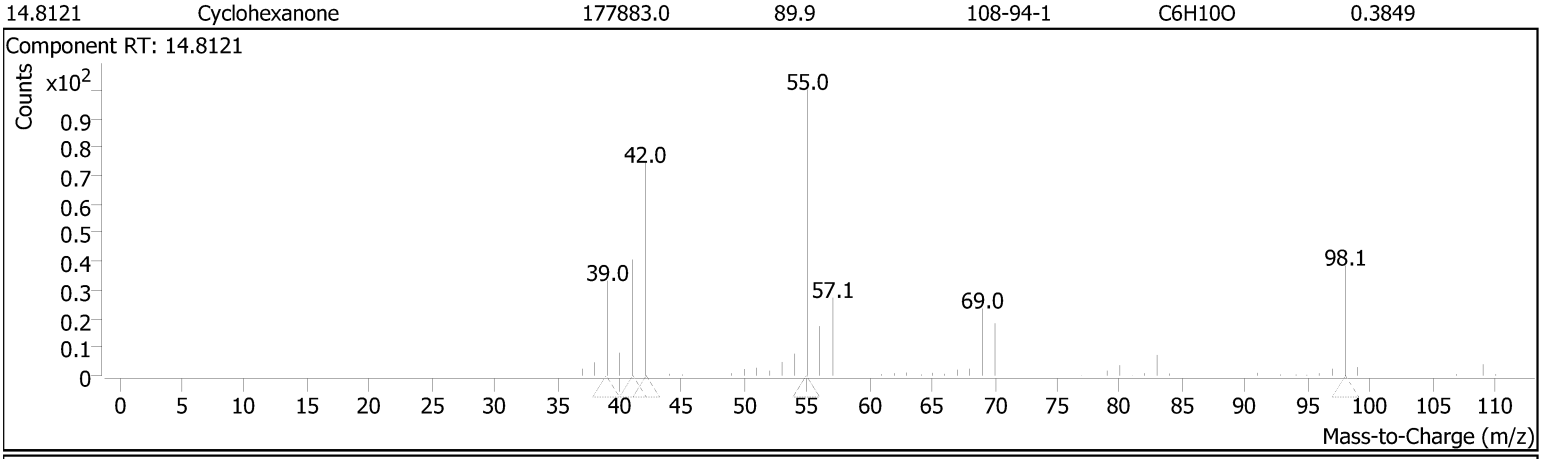



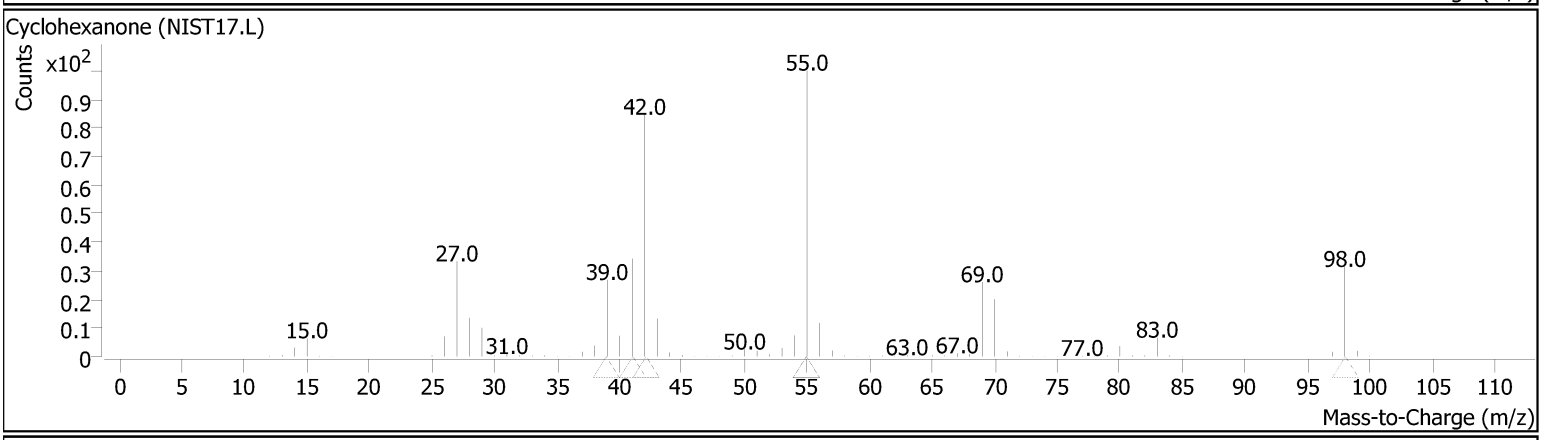



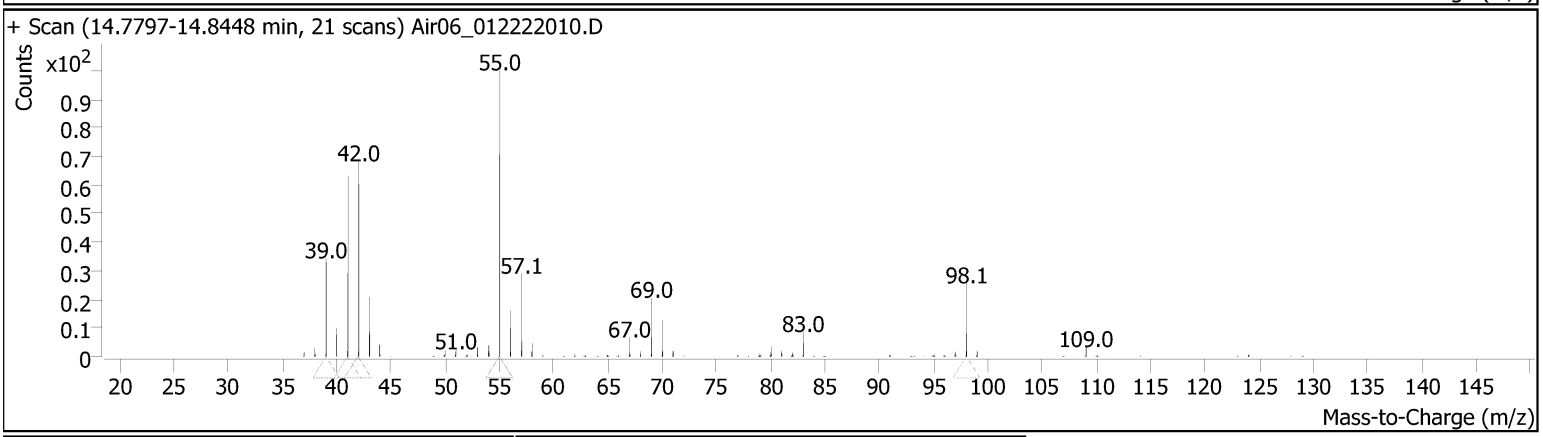



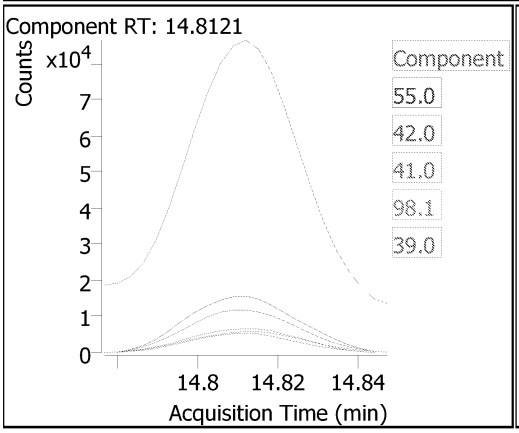



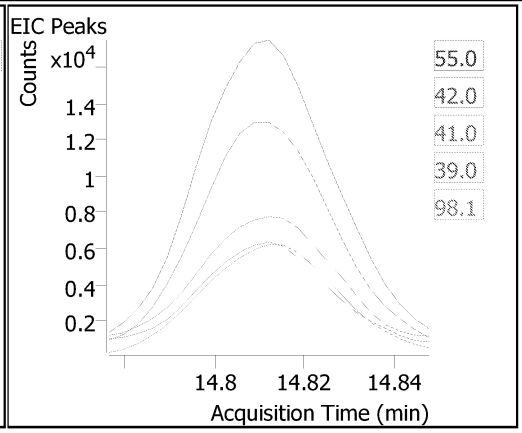
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.8121 | Cyclohexanone | 177883.0 | 89.9 | 108-94-1 | C6H10O | 0.3849 |

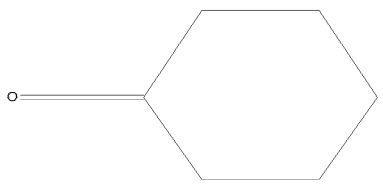


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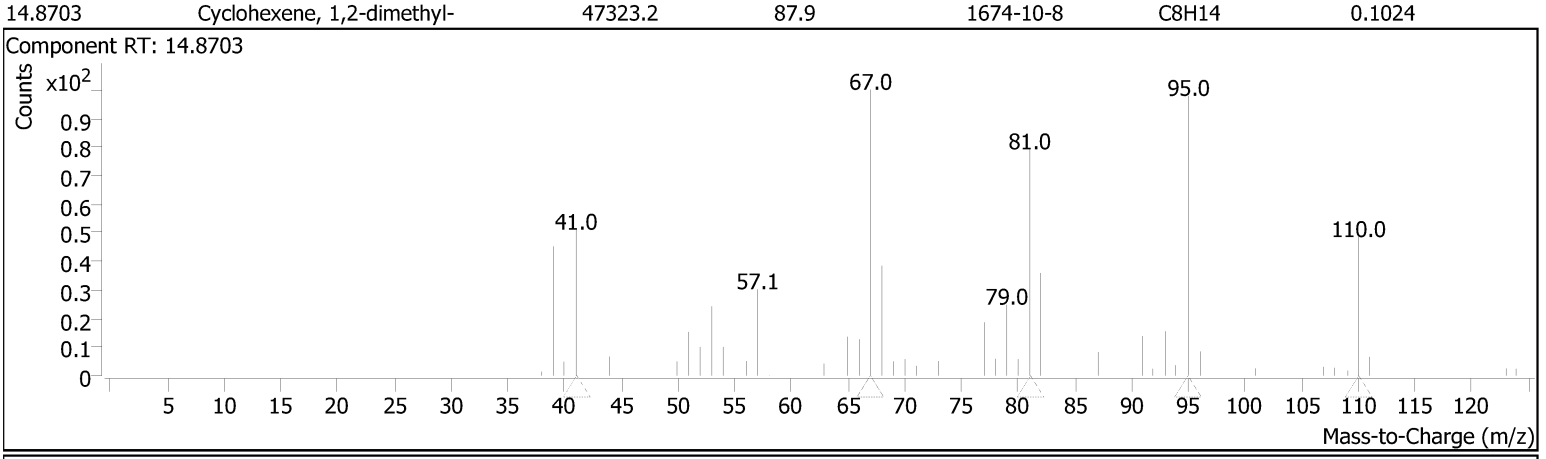
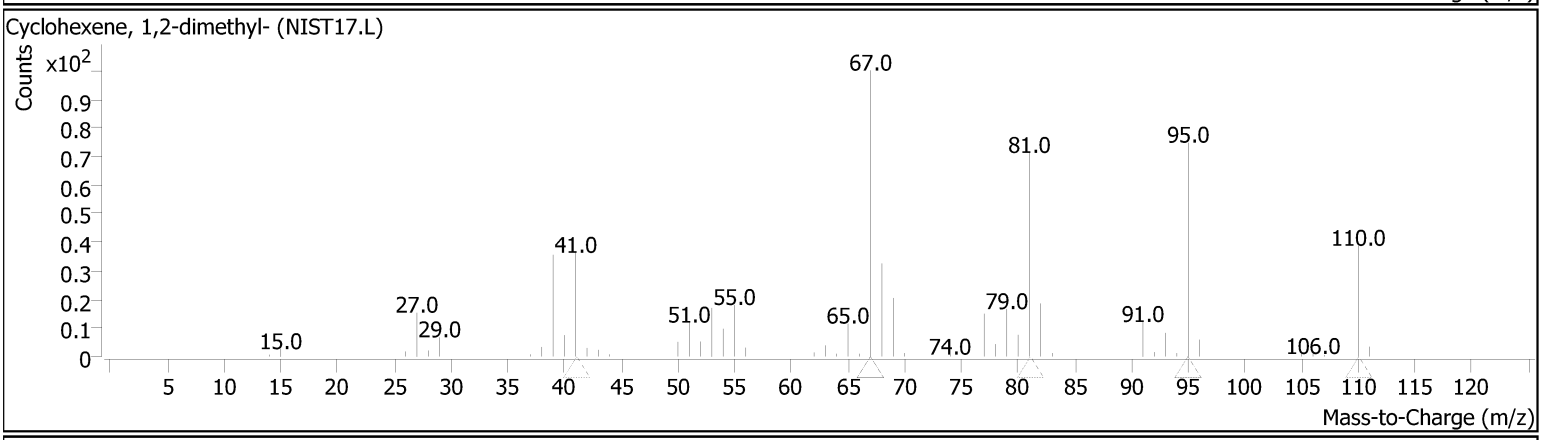
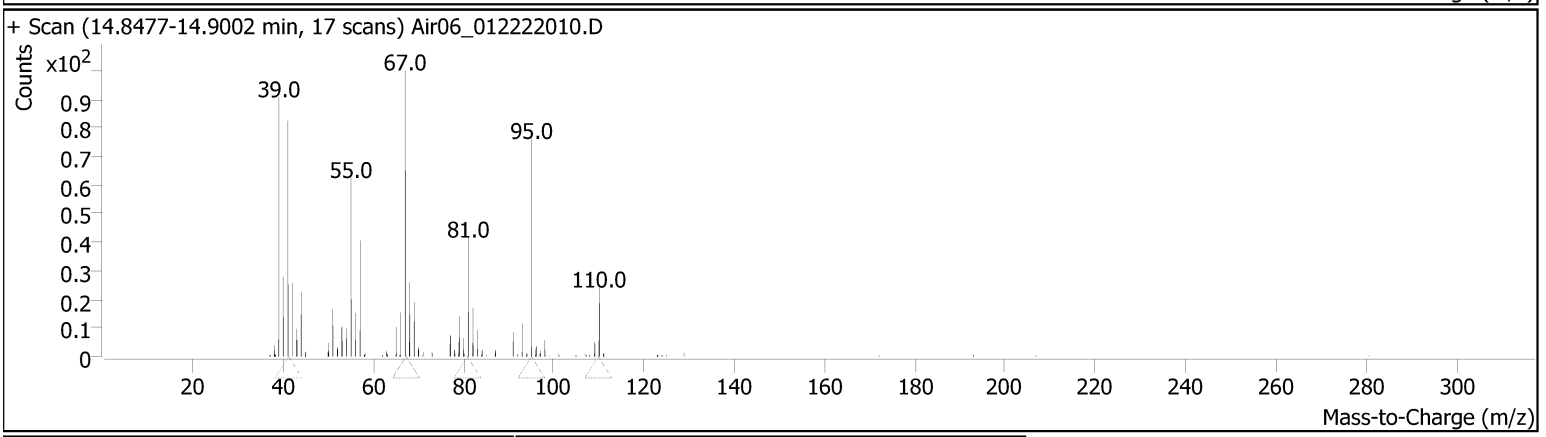
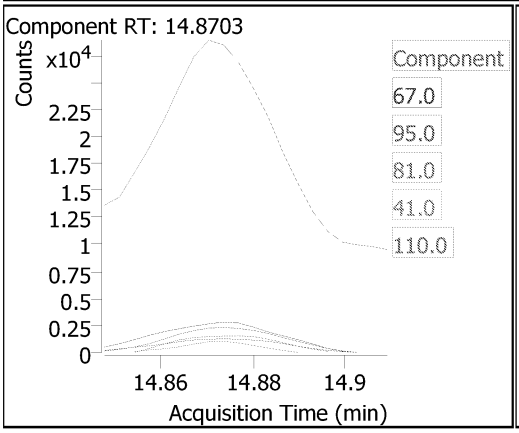
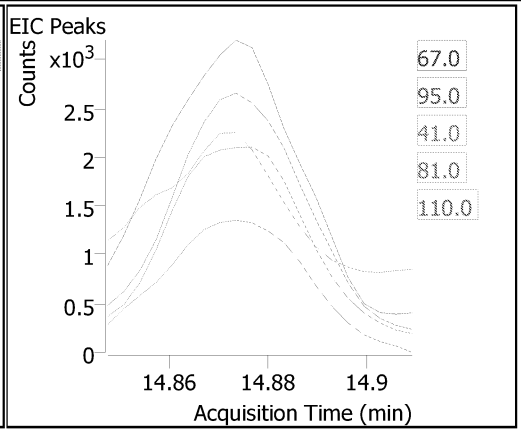
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.8703 | Cyclohexene, 1,2-dimethyl- | 47323.2 | 87.9 | 1674-10-8 | C8H14 | 0.1024 |

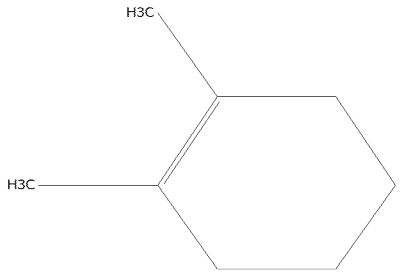


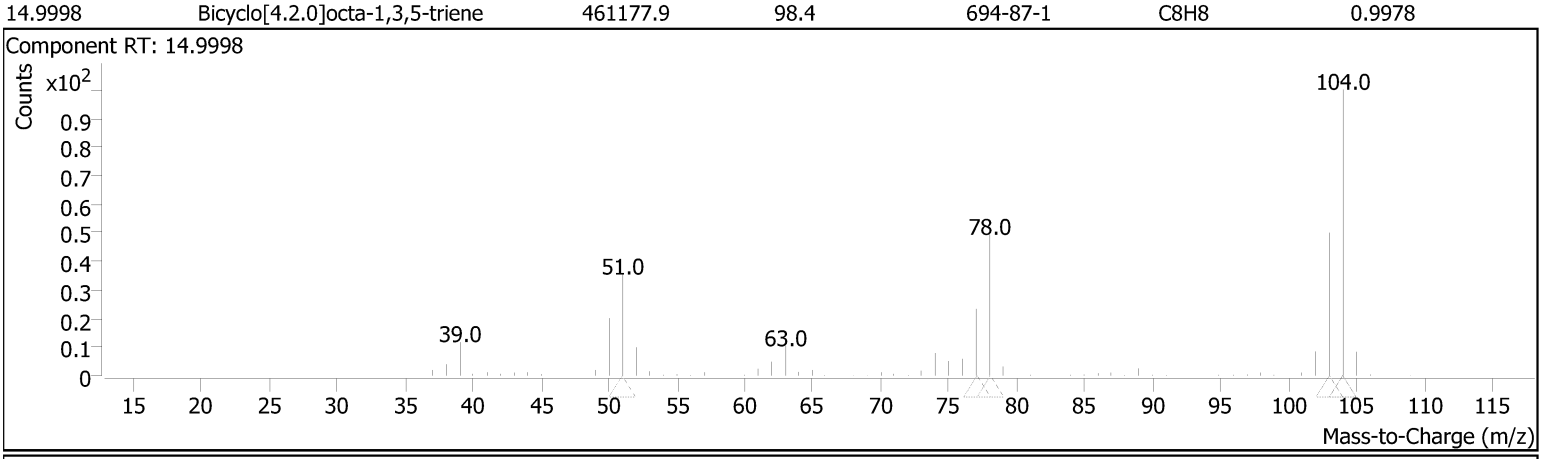



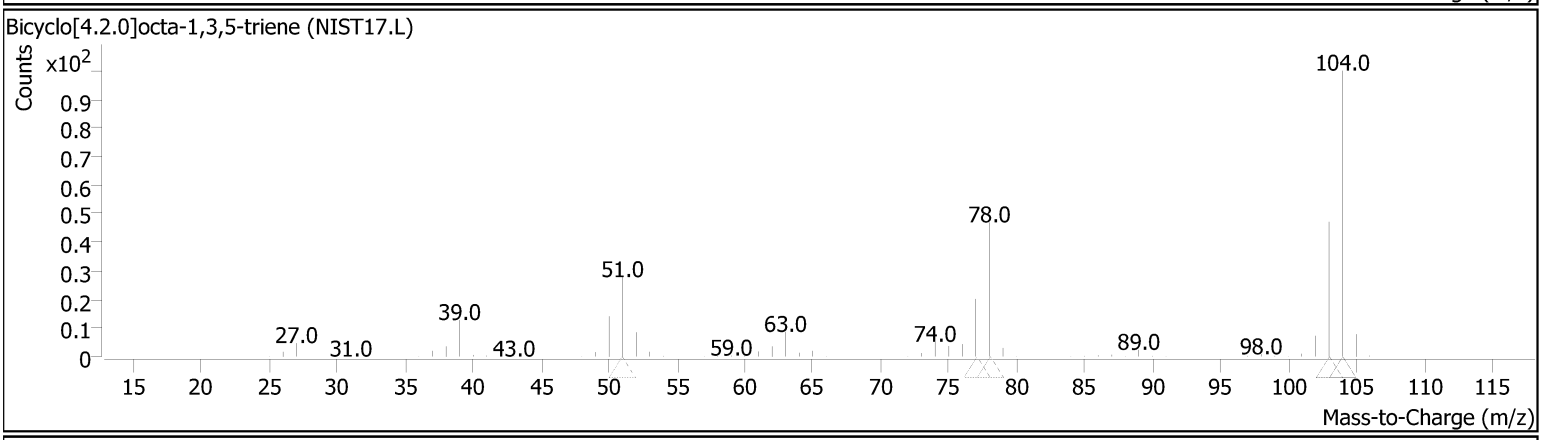



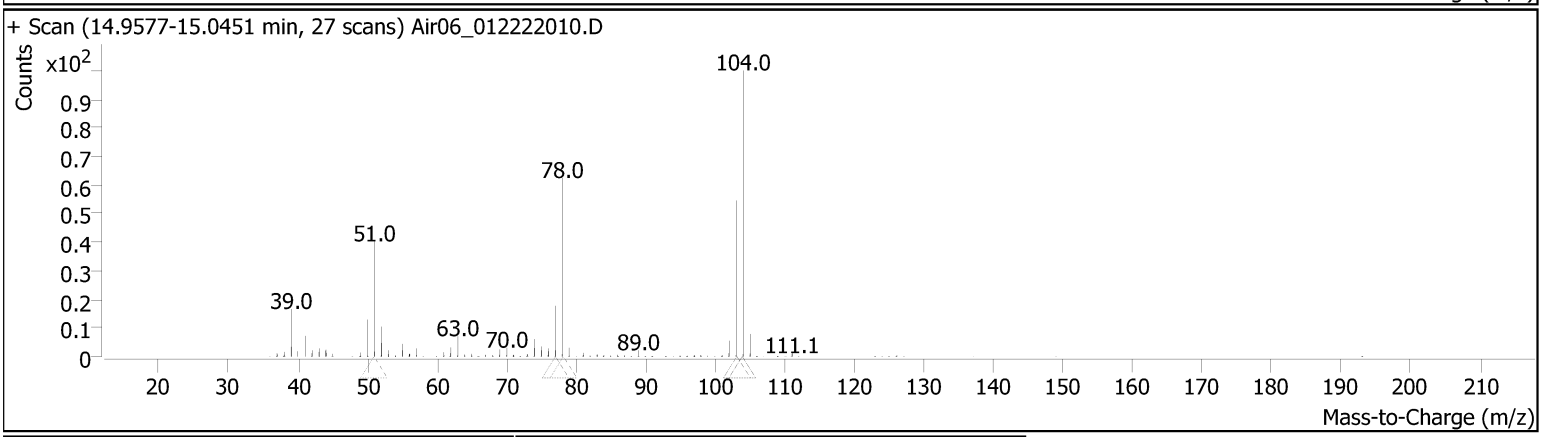



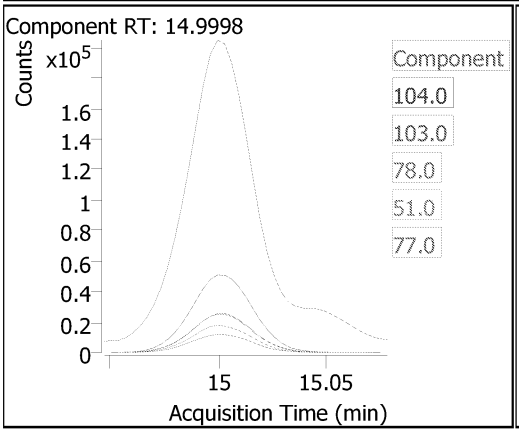



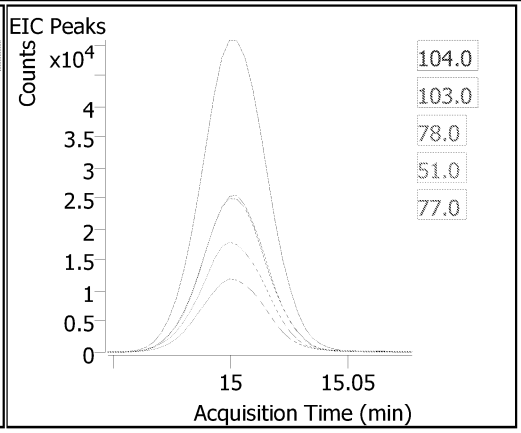
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.9998 | Bicyclo[4.2.0]octa-1,3,5-triene | 461177.9 | 98.4 | 694-87-1 | C8H8 | 0.9978 |

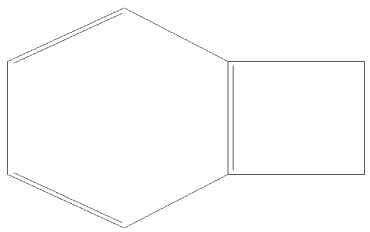


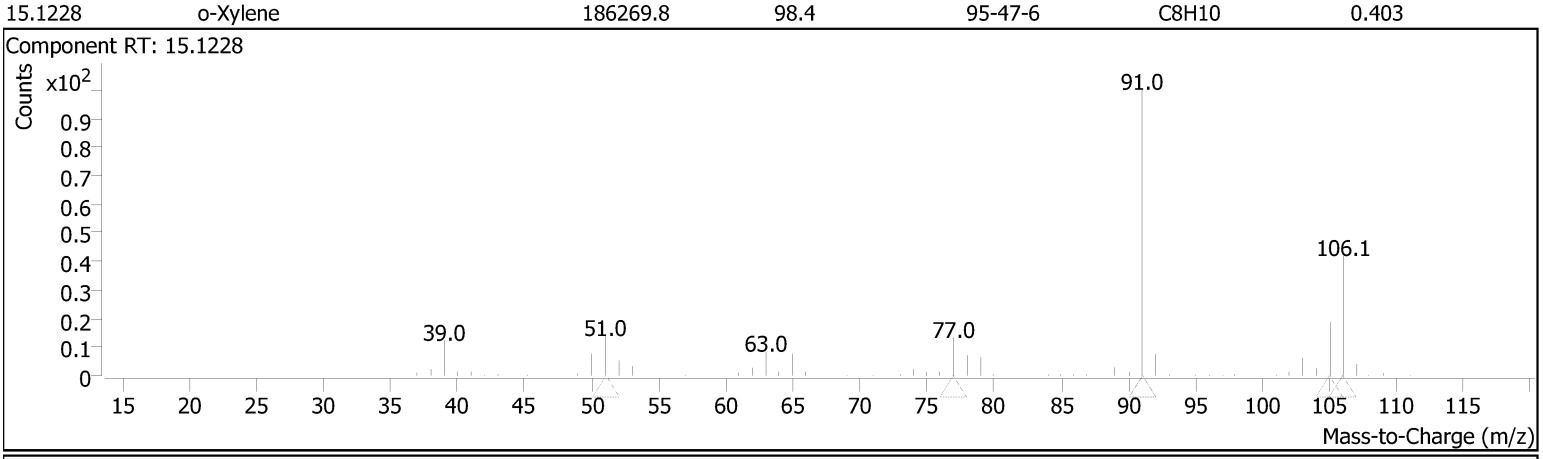



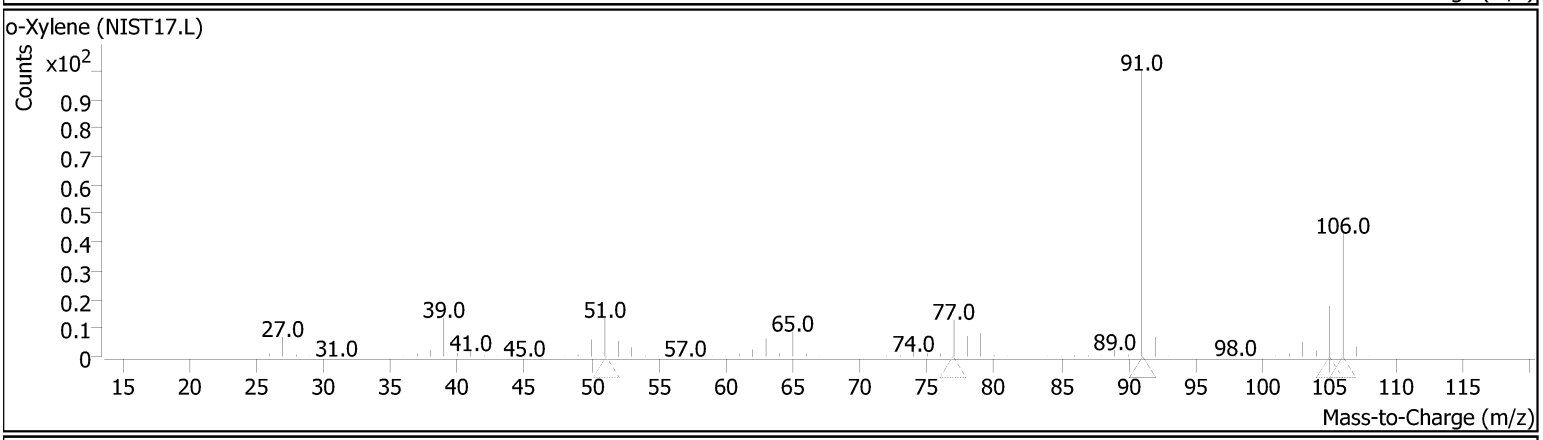



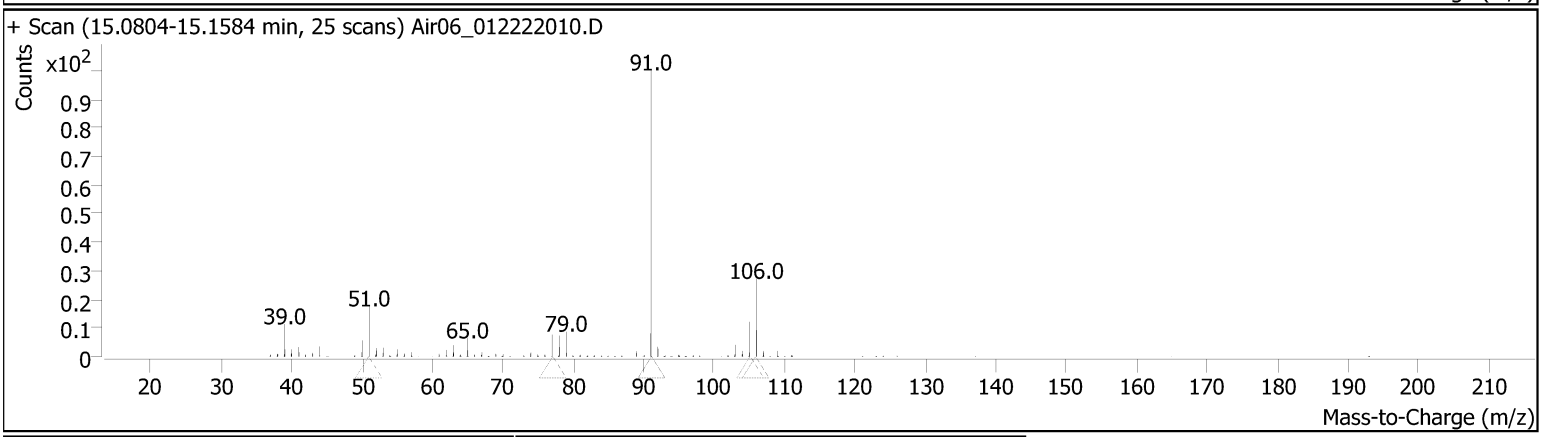



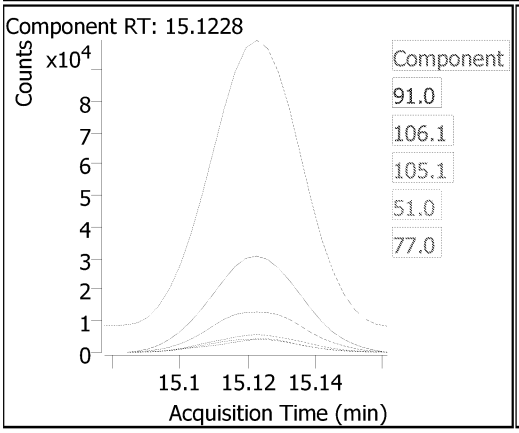



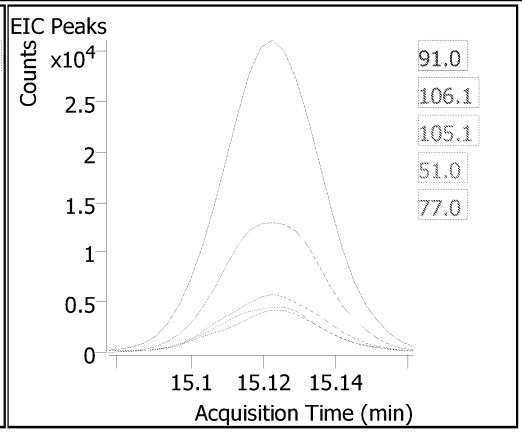
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.1228 | o-Xylene | 186269.8 | 98.4 | 95-47-6 | C8H10 | 0.403 |

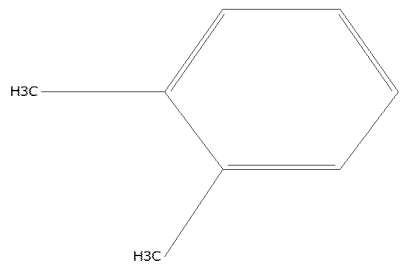


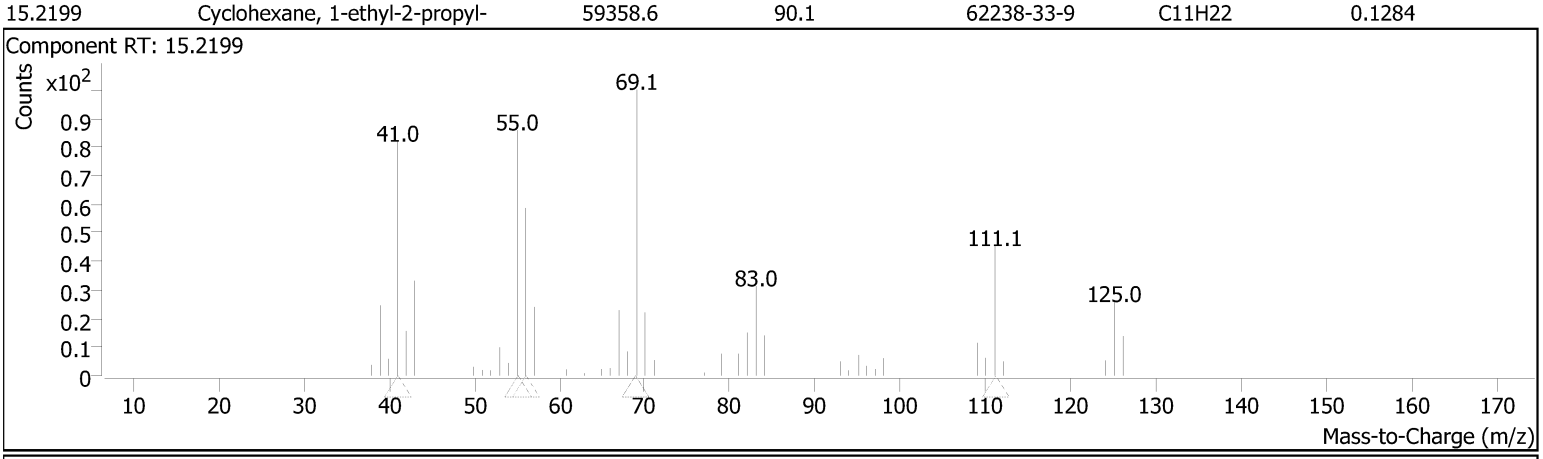



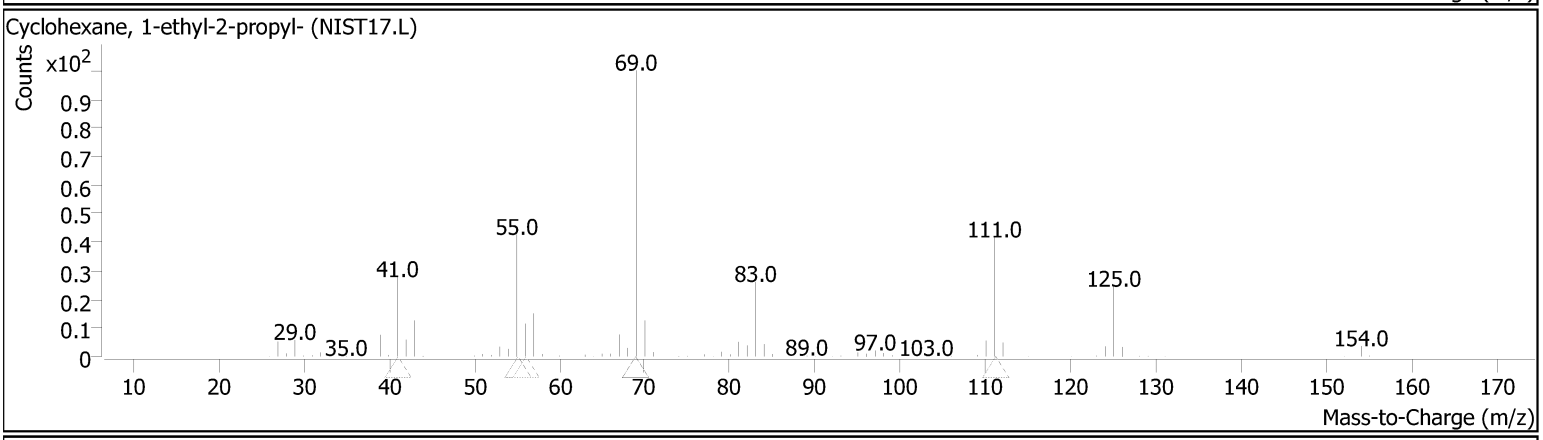



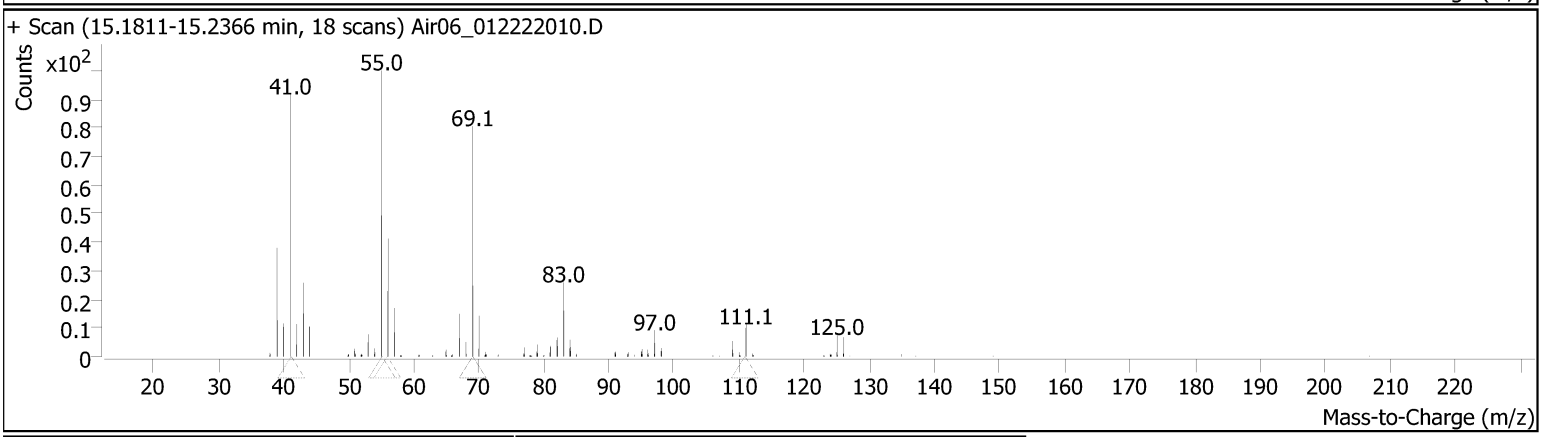



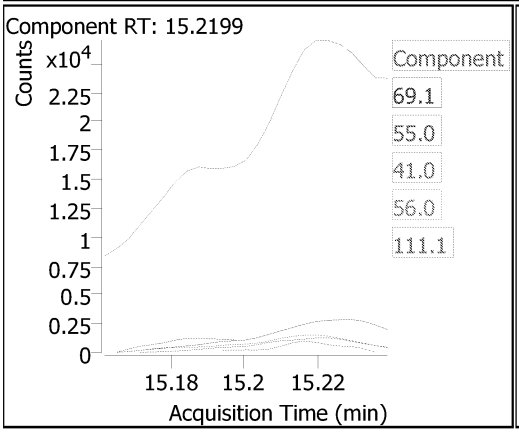



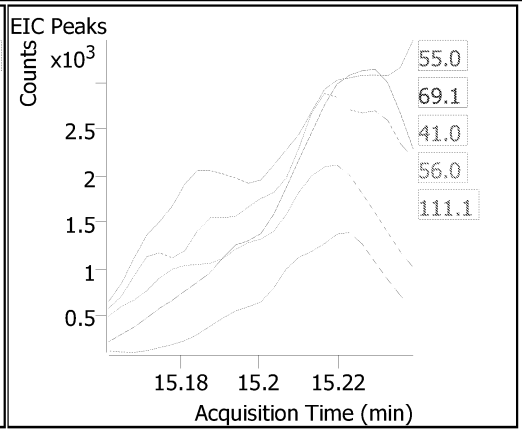
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.2199 | Cyclohexane, 1-ethyl-2-propyl- | 59358.6 | 90.1 | 62238-33-9 | C11H22 | 0.1284 |

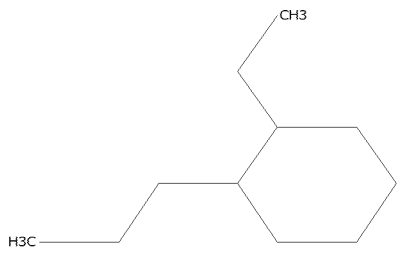


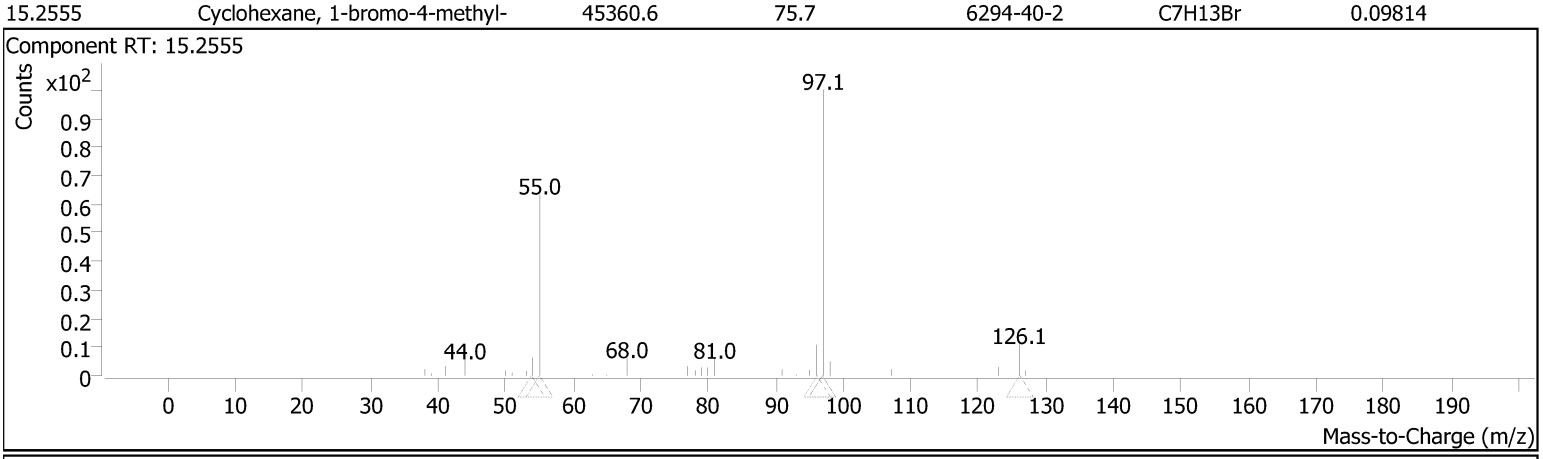



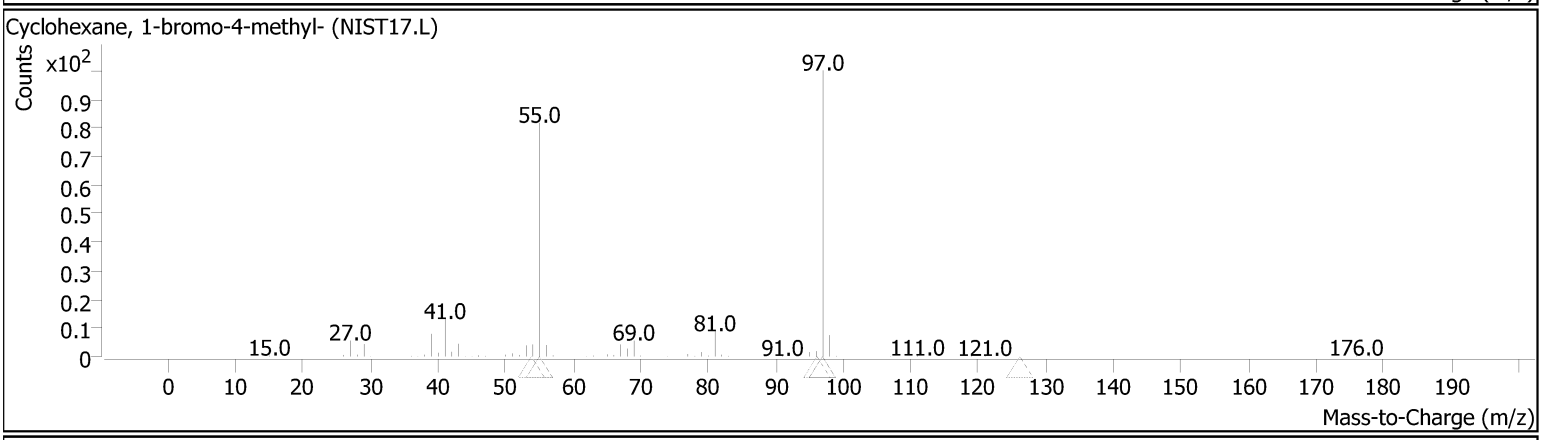



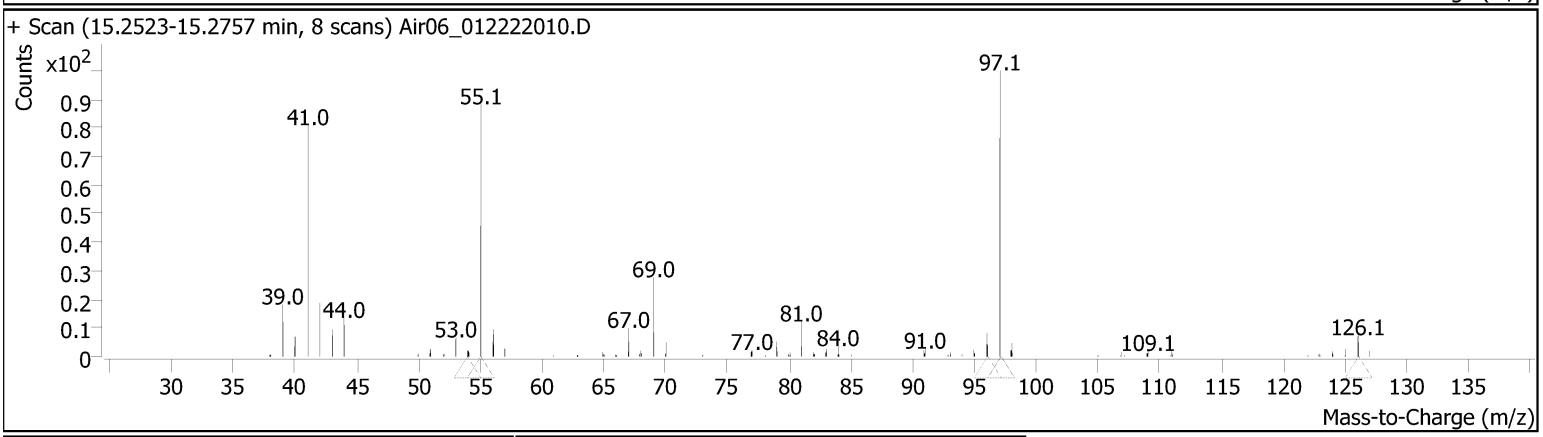



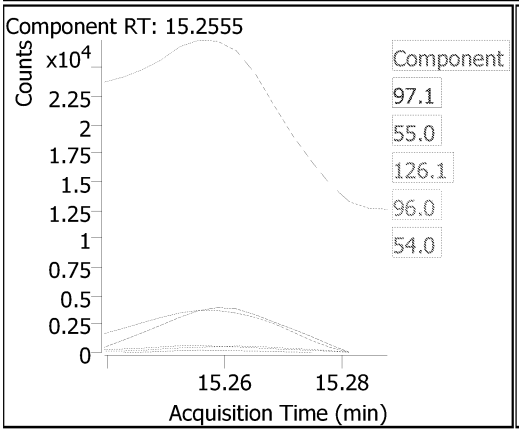



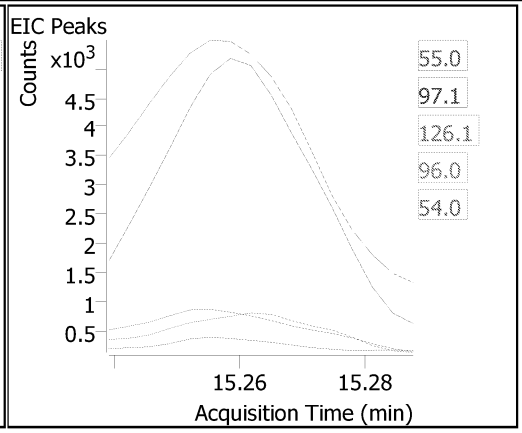
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.2555 | Cyclohexane, 1-bromo-4-methyl- | 45360.6 | 75.7 | 6294-40-2 | C7H13Br | 0.09814 |

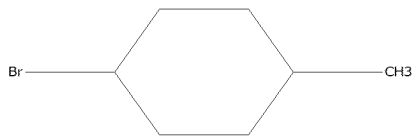


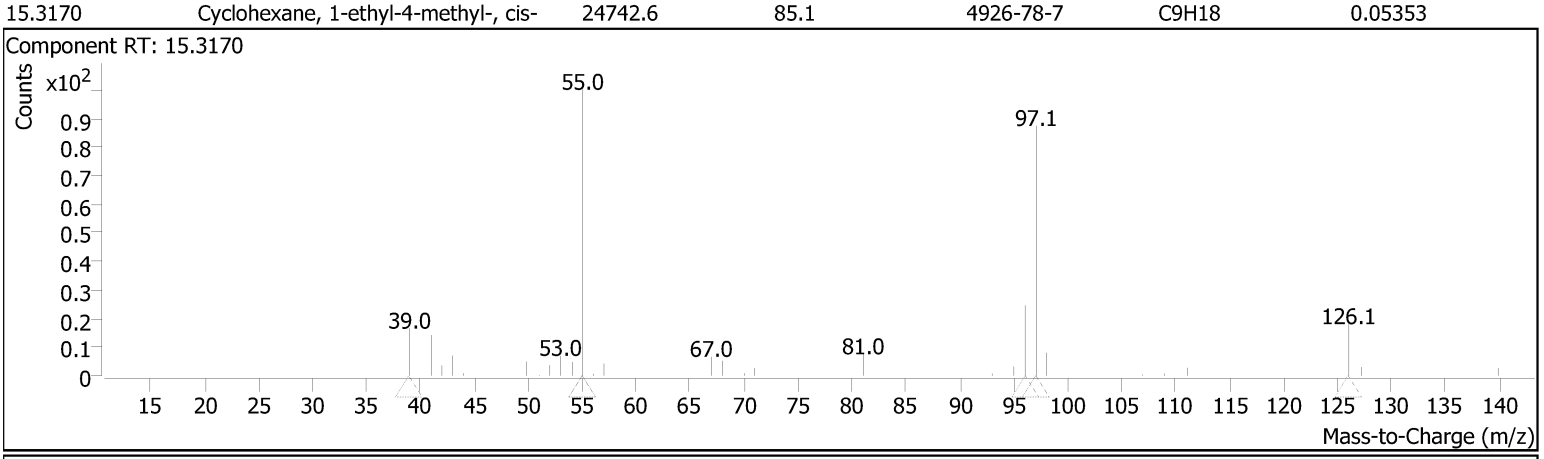



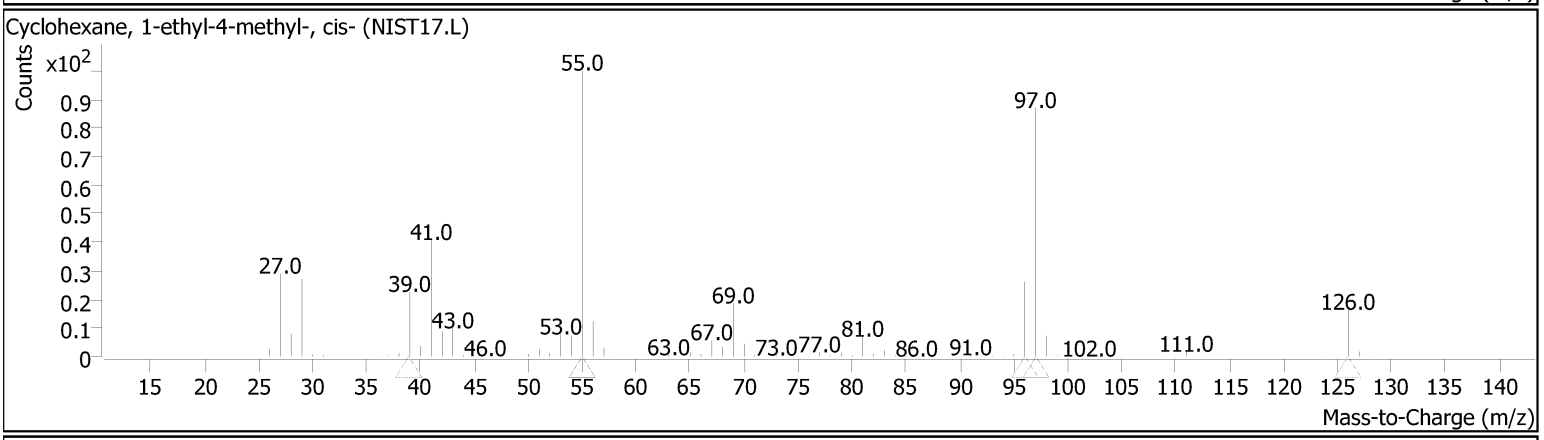



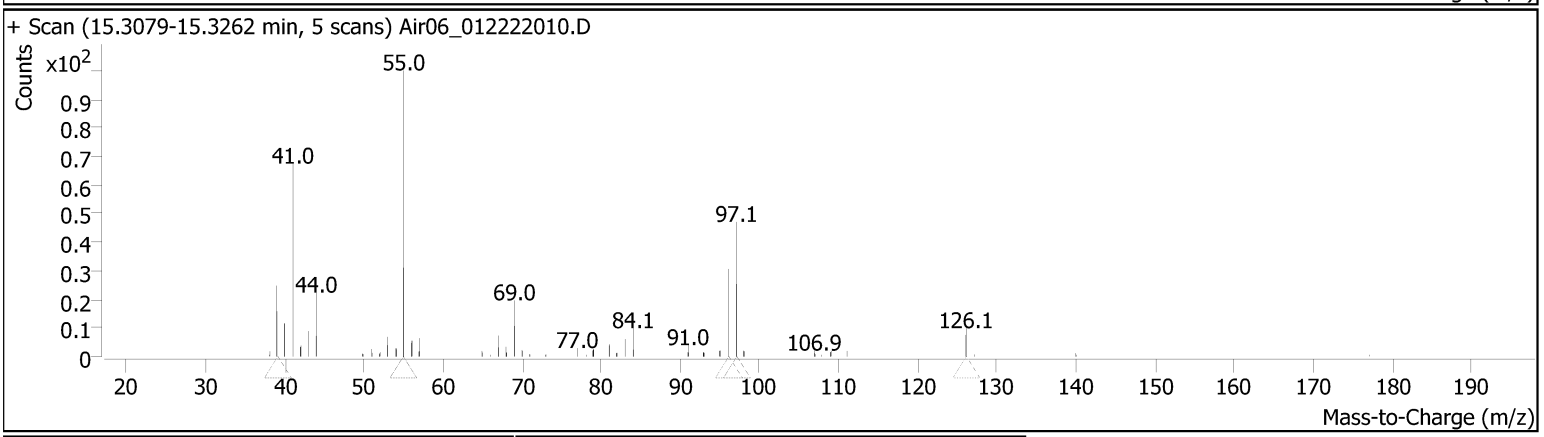



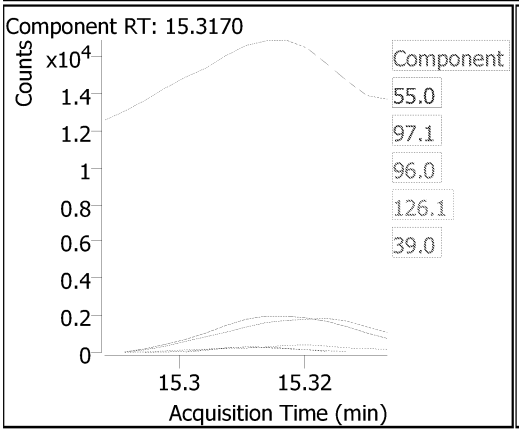



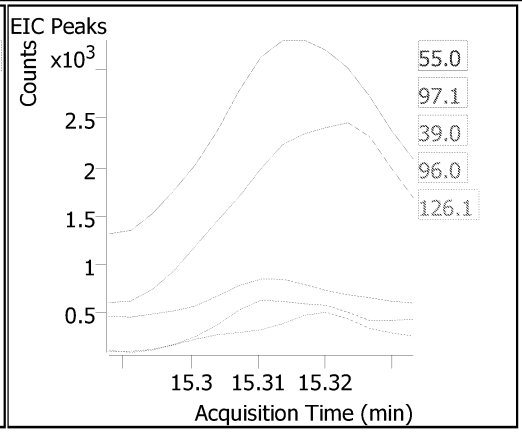
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3170 | Cyclohexane, 1-ethyl-4-methyl-, cis- | 24742.6 | 85.1 | 4926-78-7 | C9H18 | 0.05353 |

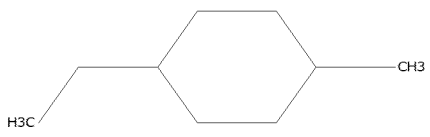


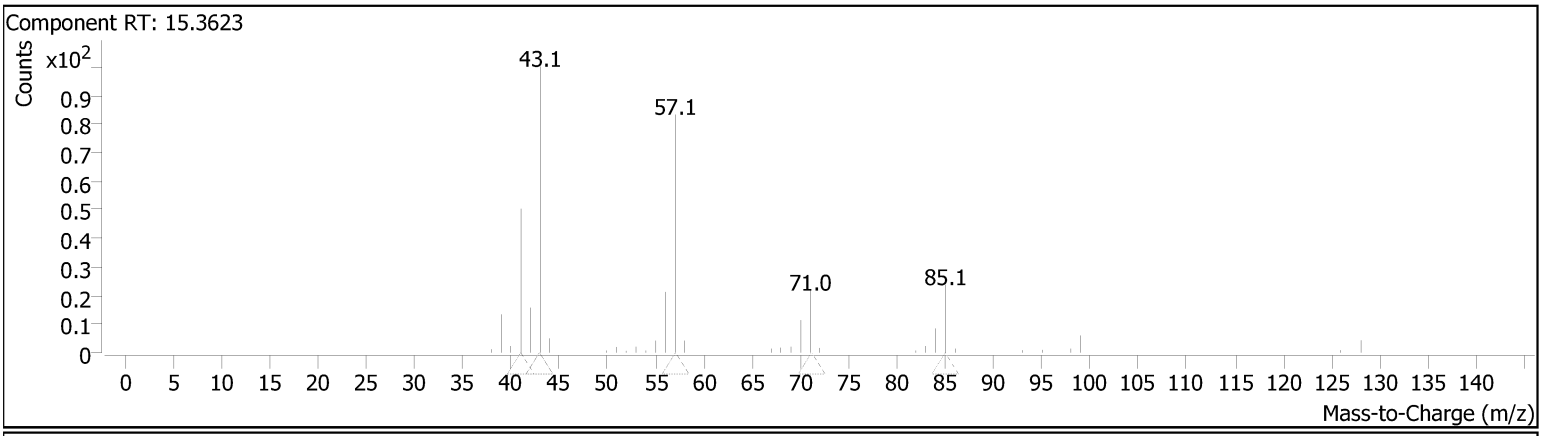



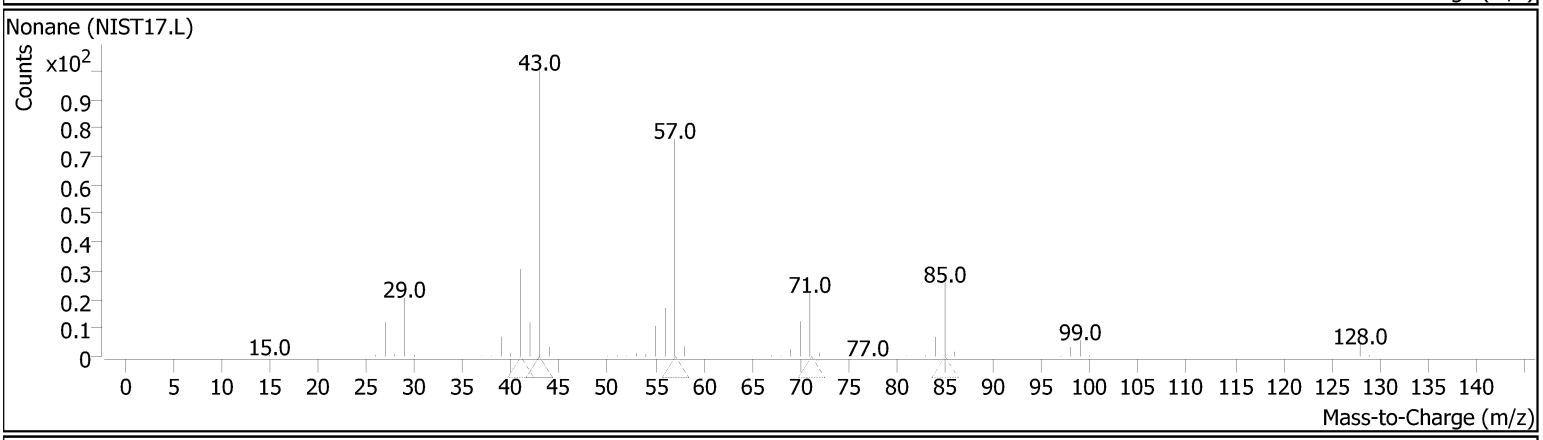



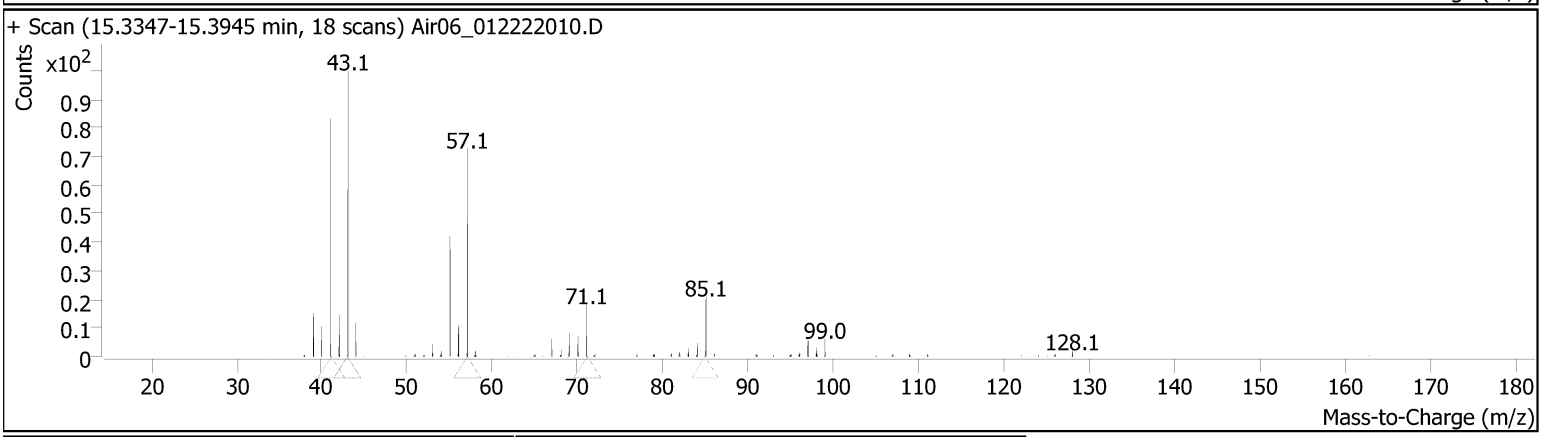



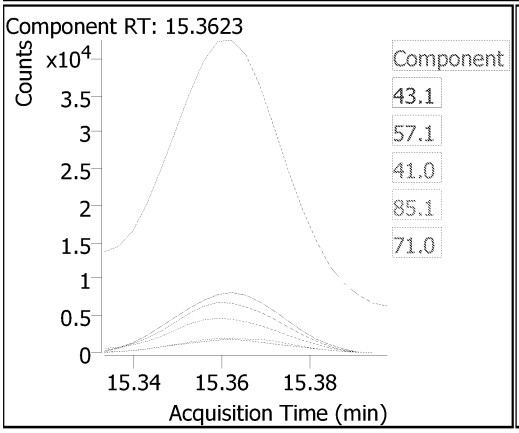



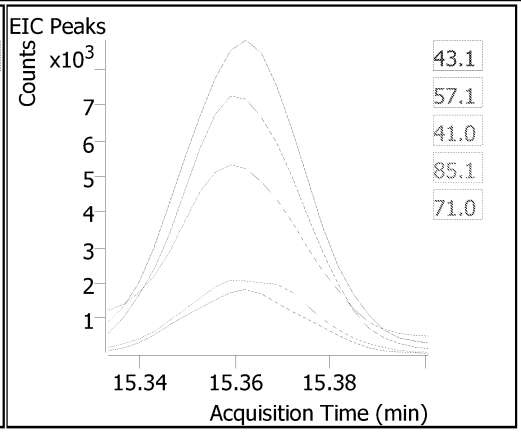
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3623 | Nonane | 69325.5 | 95.7 | 111-84-2 | C9H20 | 0.15 |

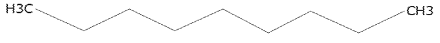


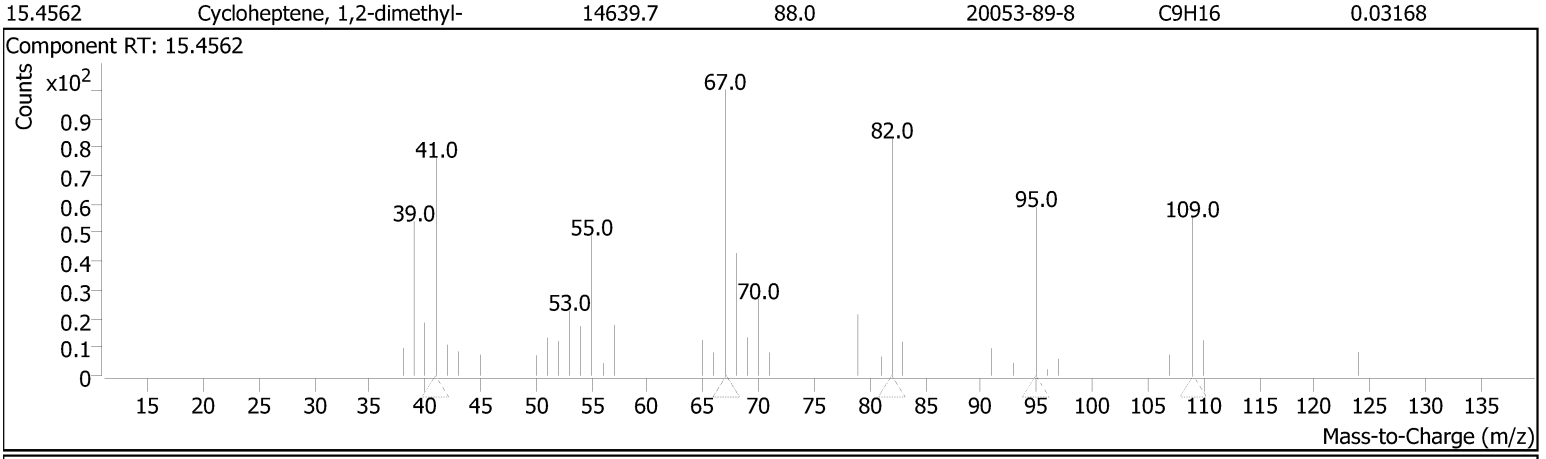



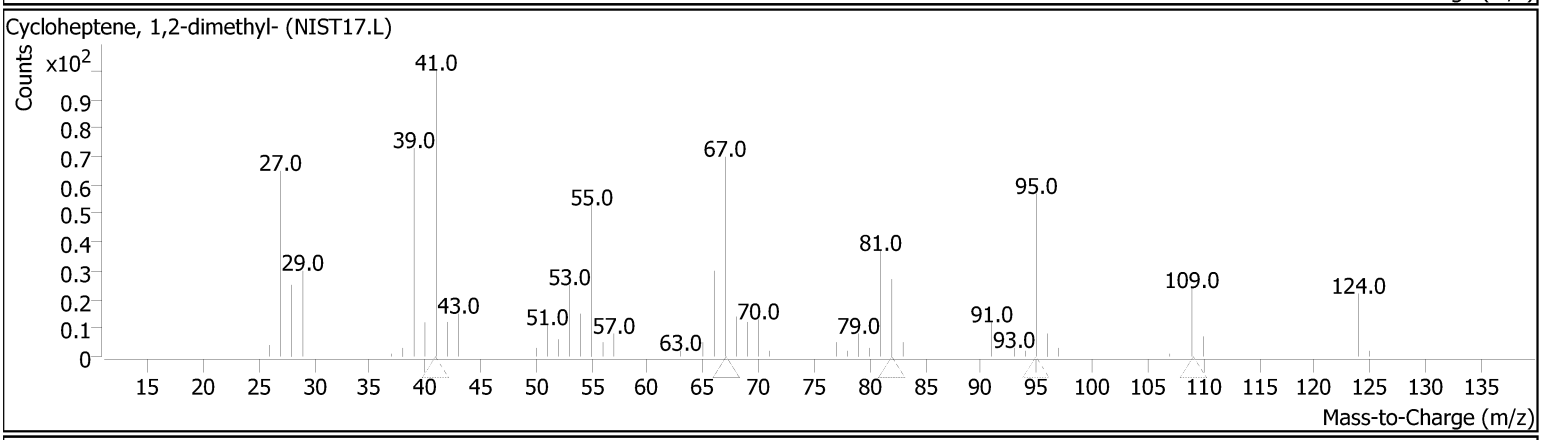



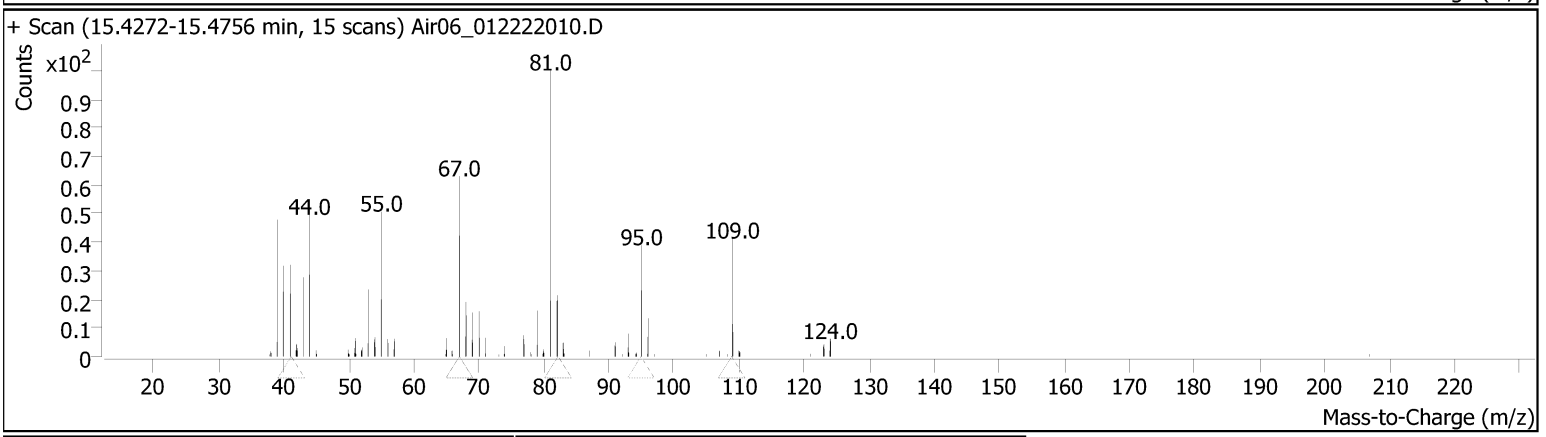



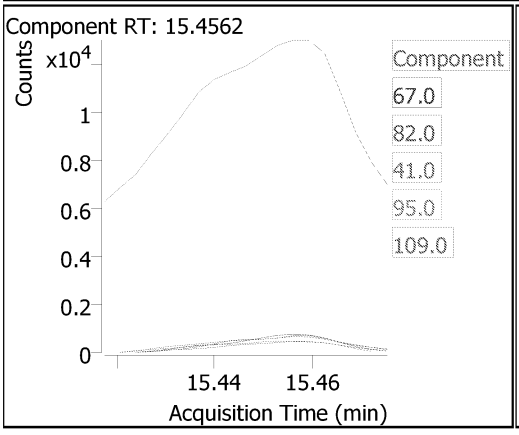



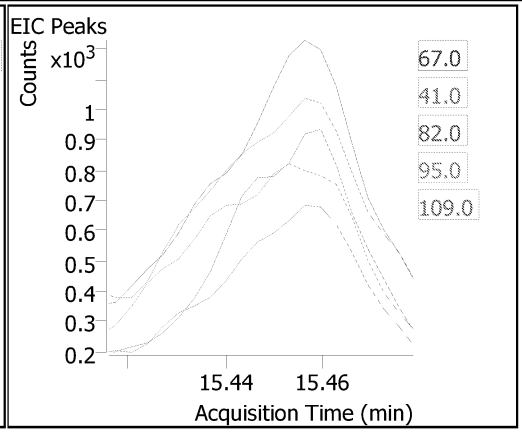
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.4562 | Cycloheptene, 1,2-dimethyl- | 14639.7 | 88.0 | 20053-89-8 | C9H16 | 0.03168 |

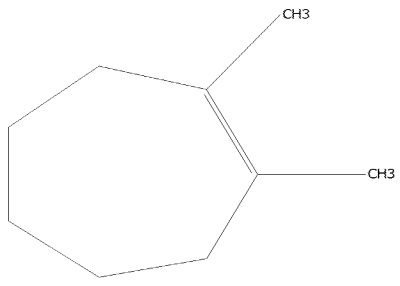


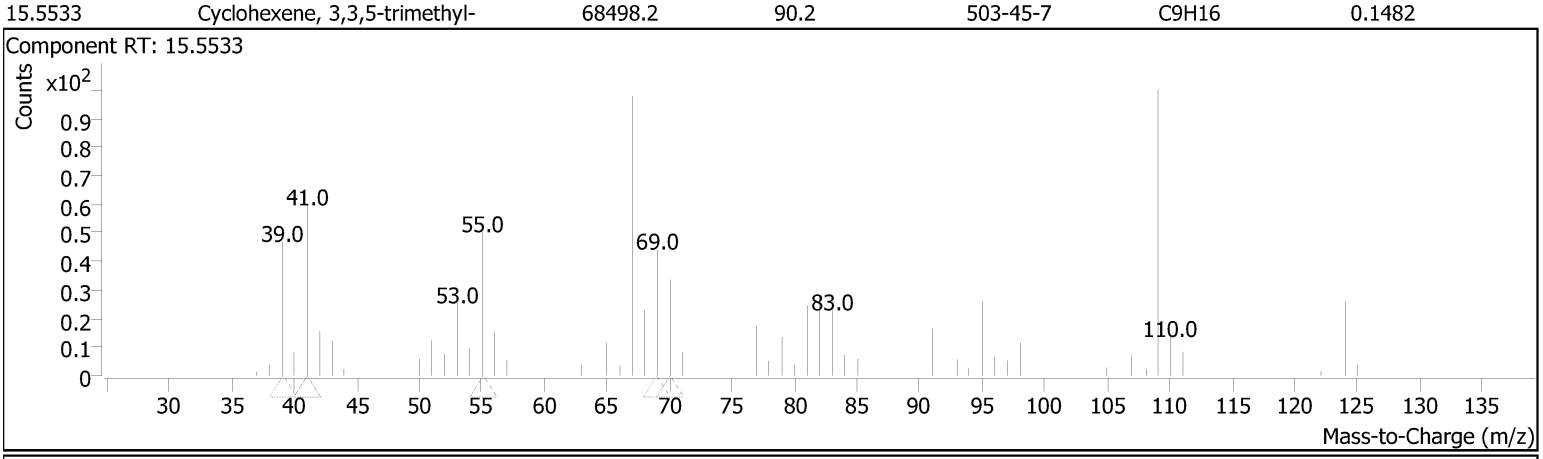



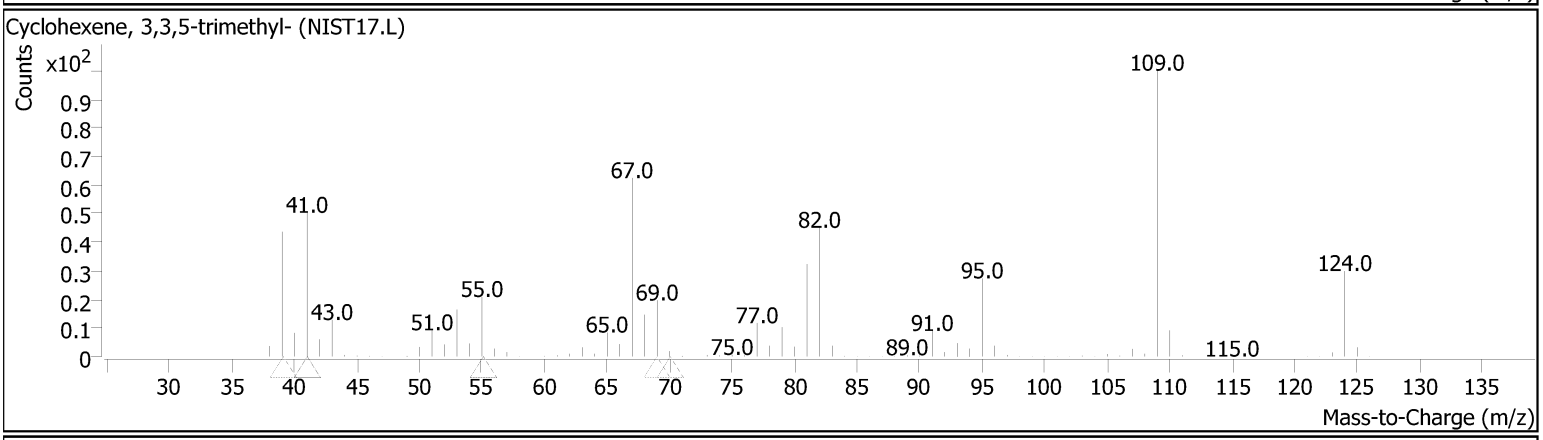



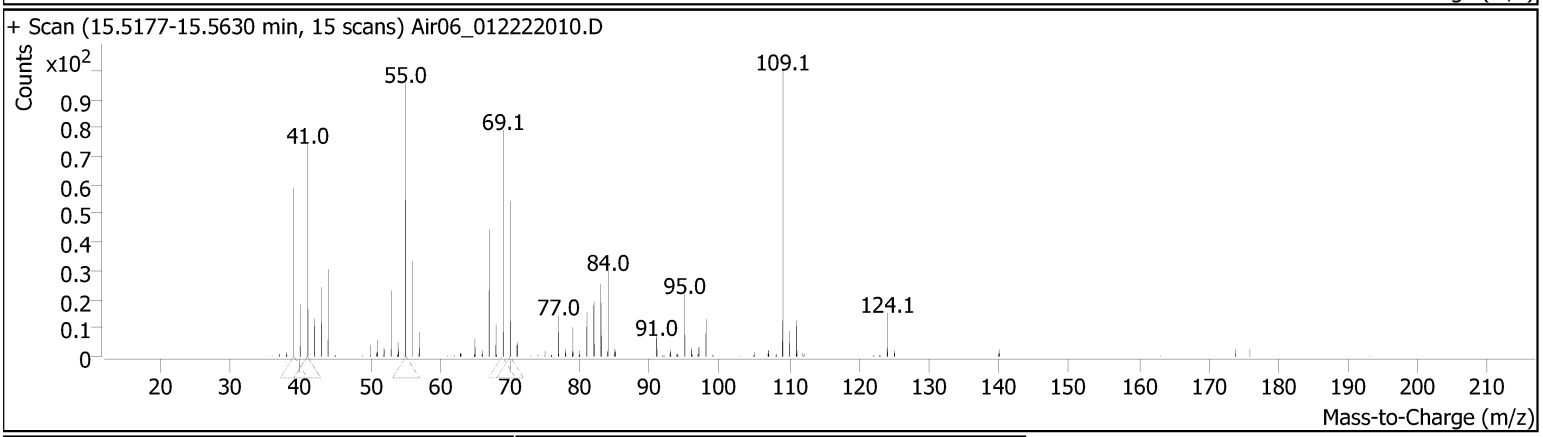



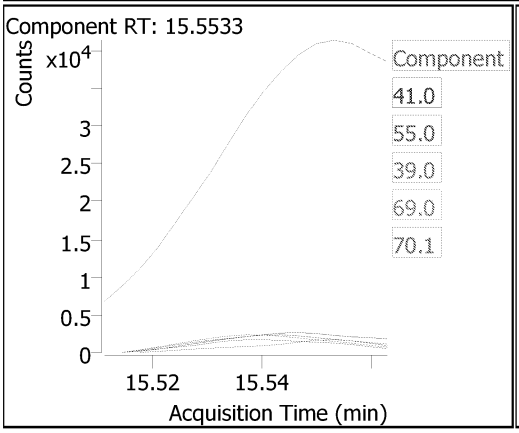



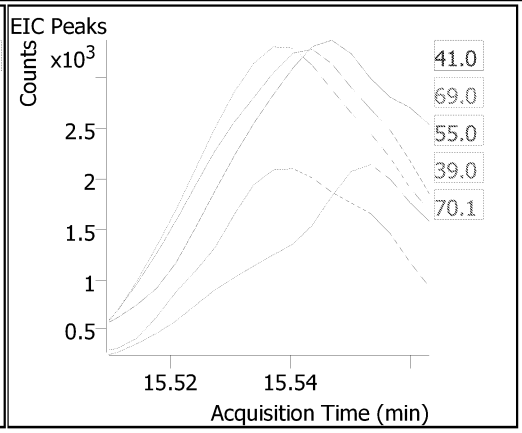
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.5533 | Cyclohexene, 3,3,5-trimethyl- | 68498.2 | 90.2 | 503-45-7 | C9H16 | 0.1482 |

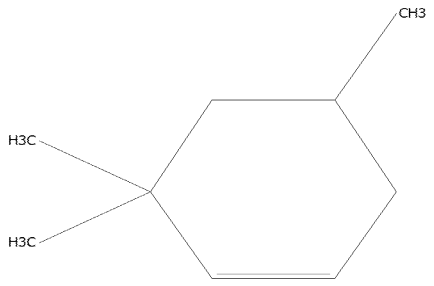


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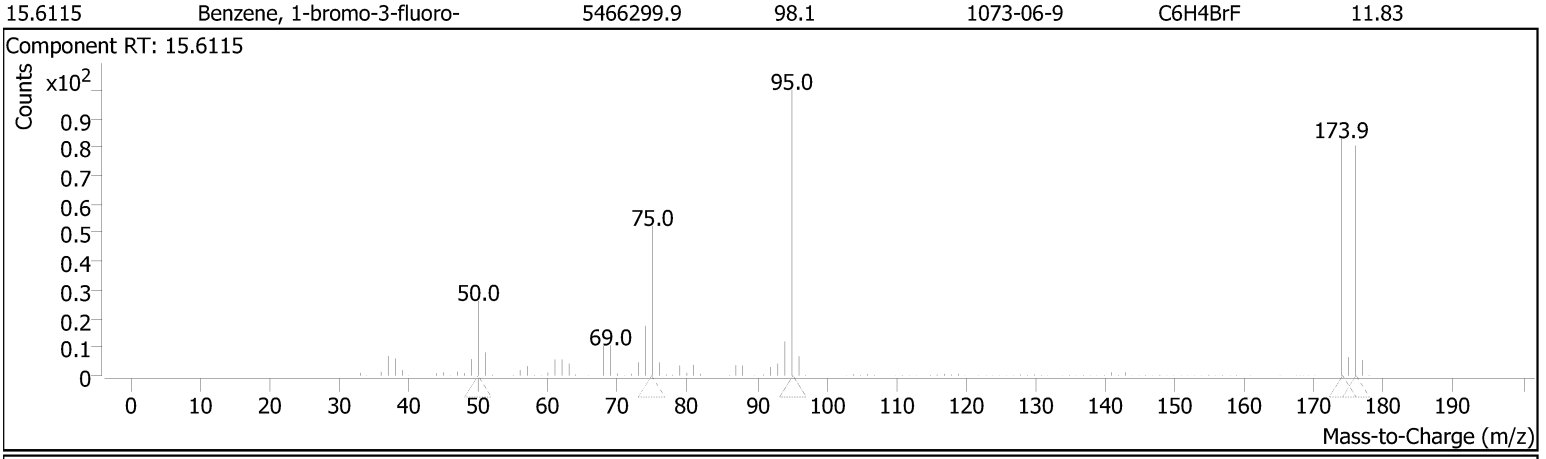
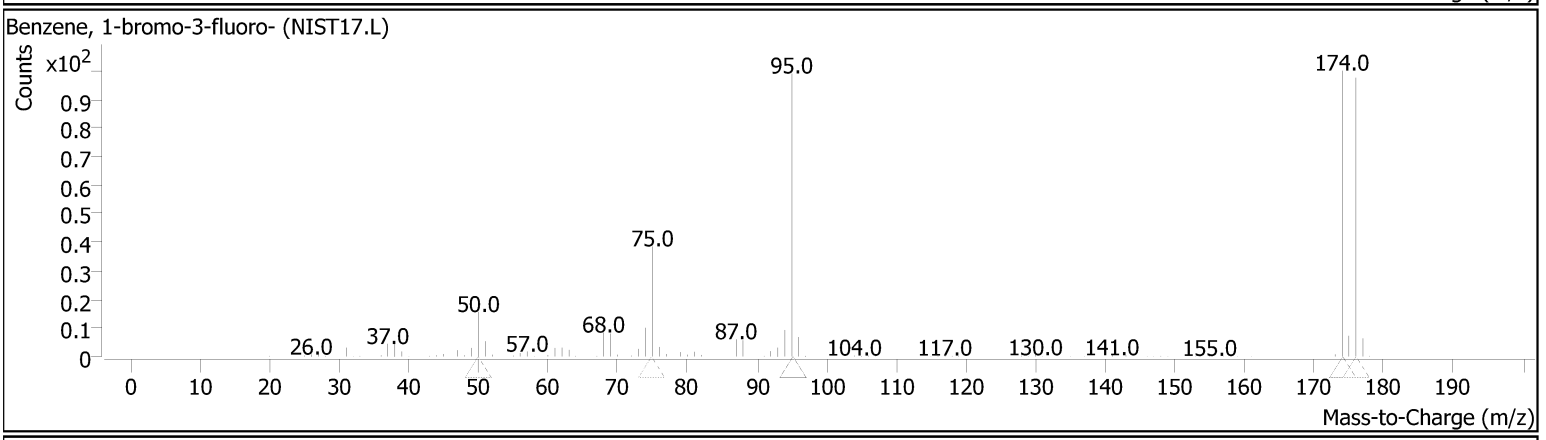
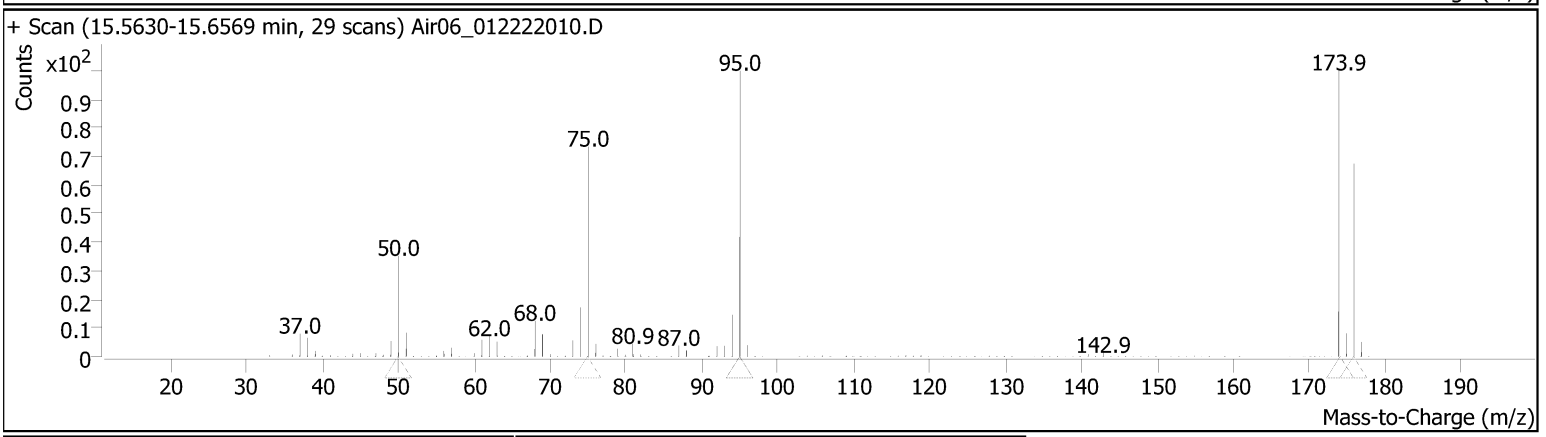
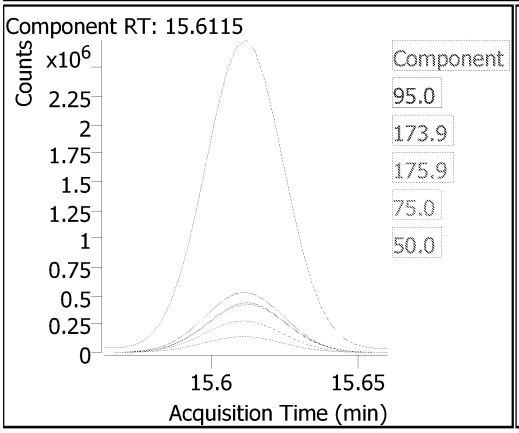
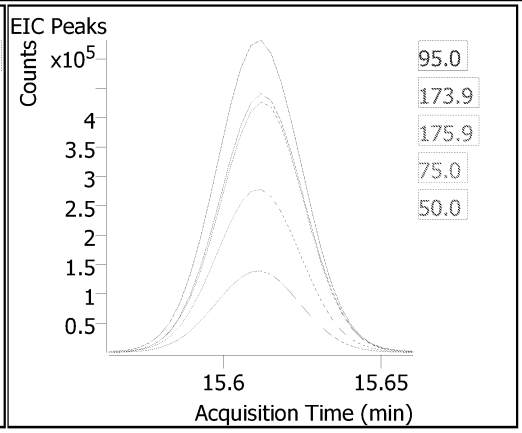
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6115 | Benzene, 1-bromo-3-fluoro- | 5466299.9 | 98.1 | 1073-06-9 | C6H4BrF | 11.83 |

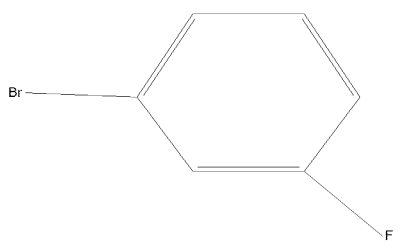


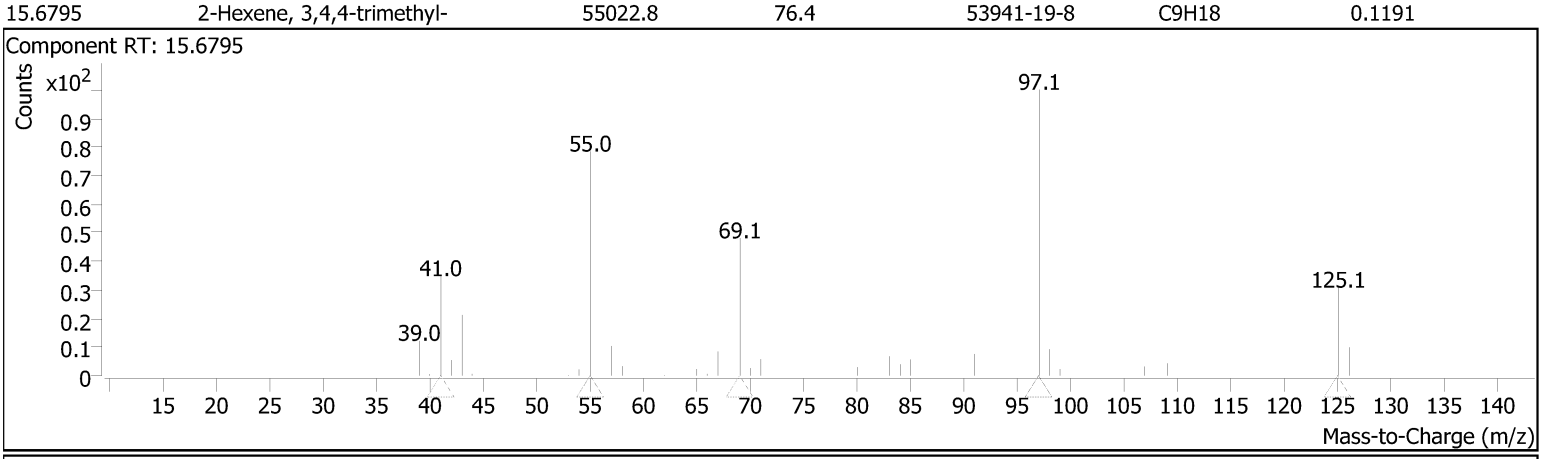



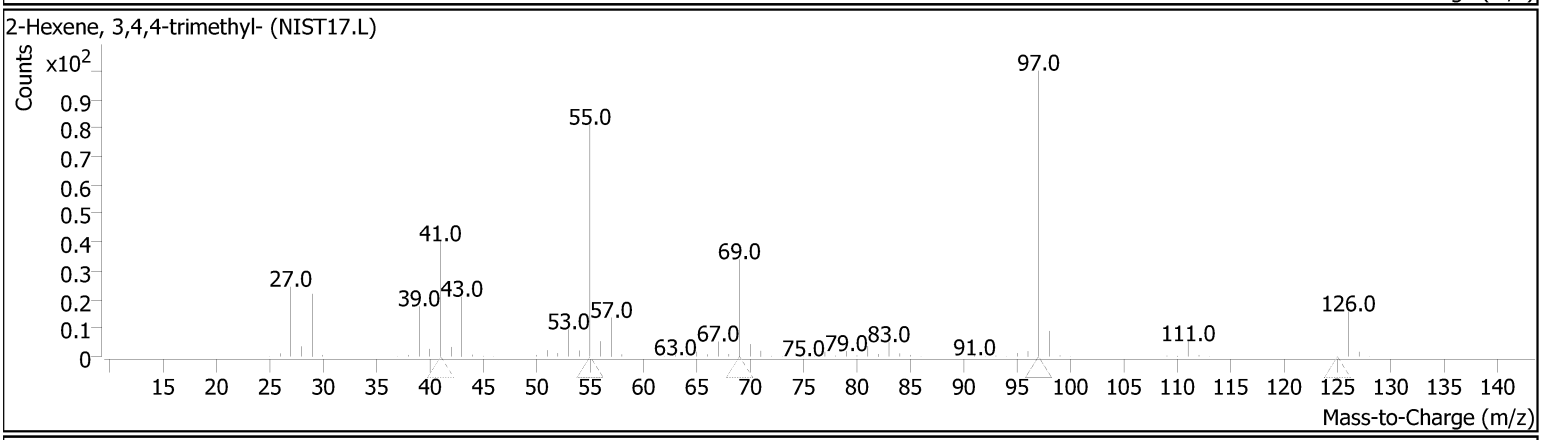



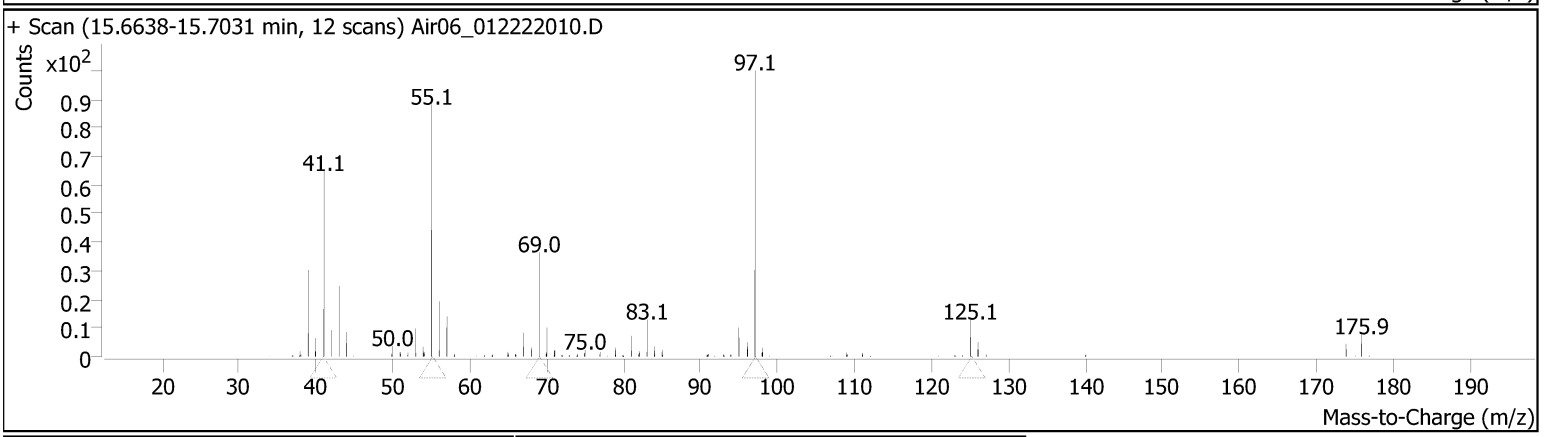



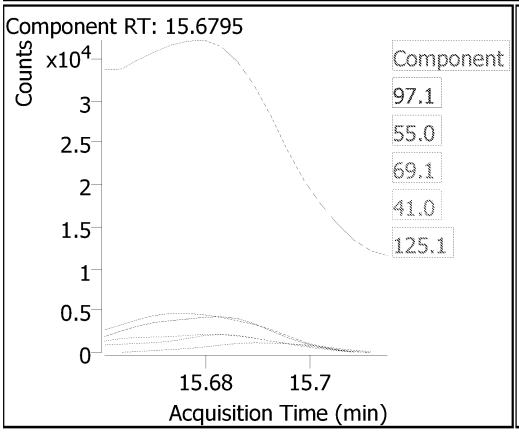



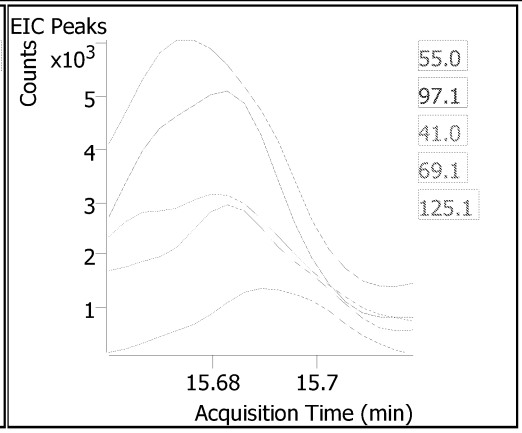
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6795 | 2-Hexene, 3,4,4-trimethyl- | 55022.8 | 76.4 | 53941-19-8 | C9H18 | 0.1191 |

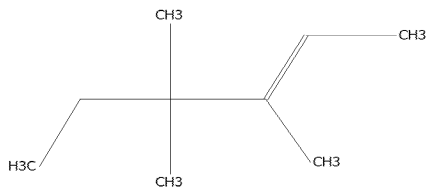


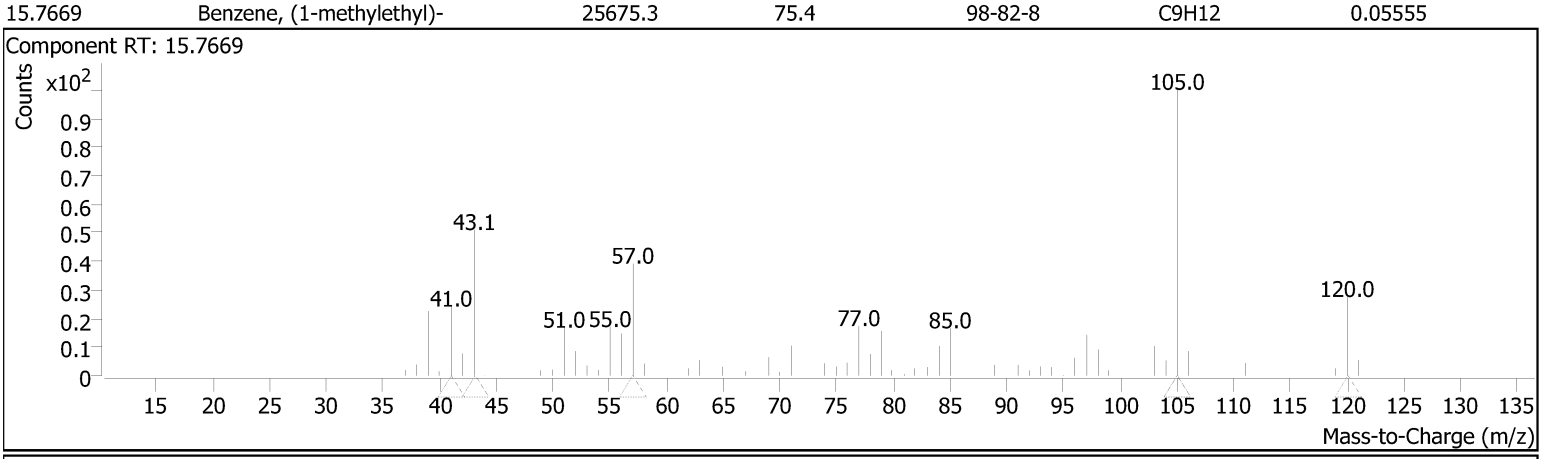



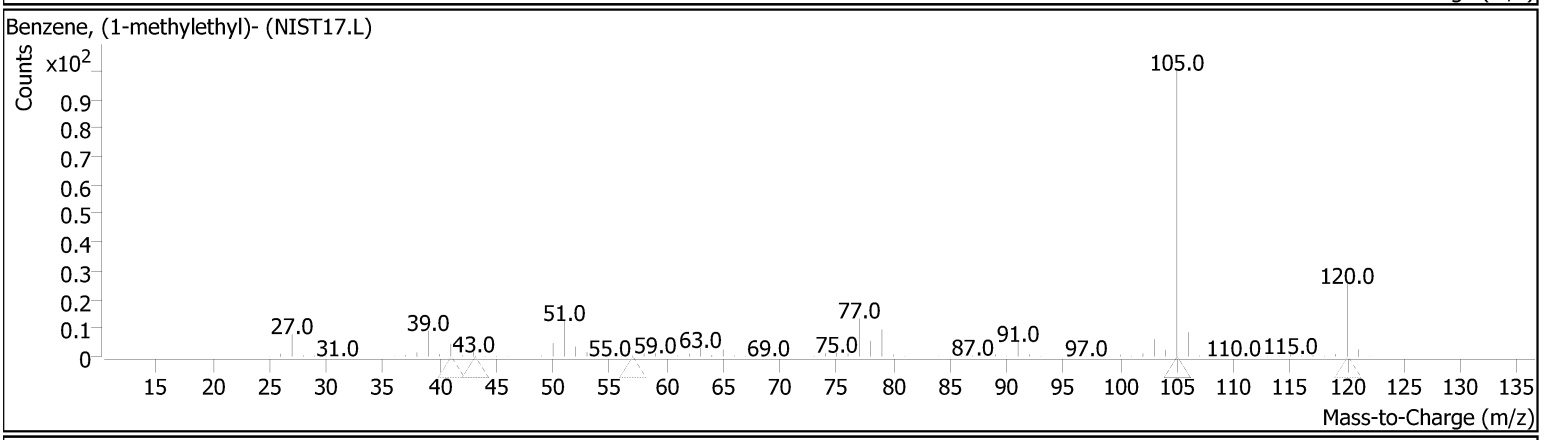



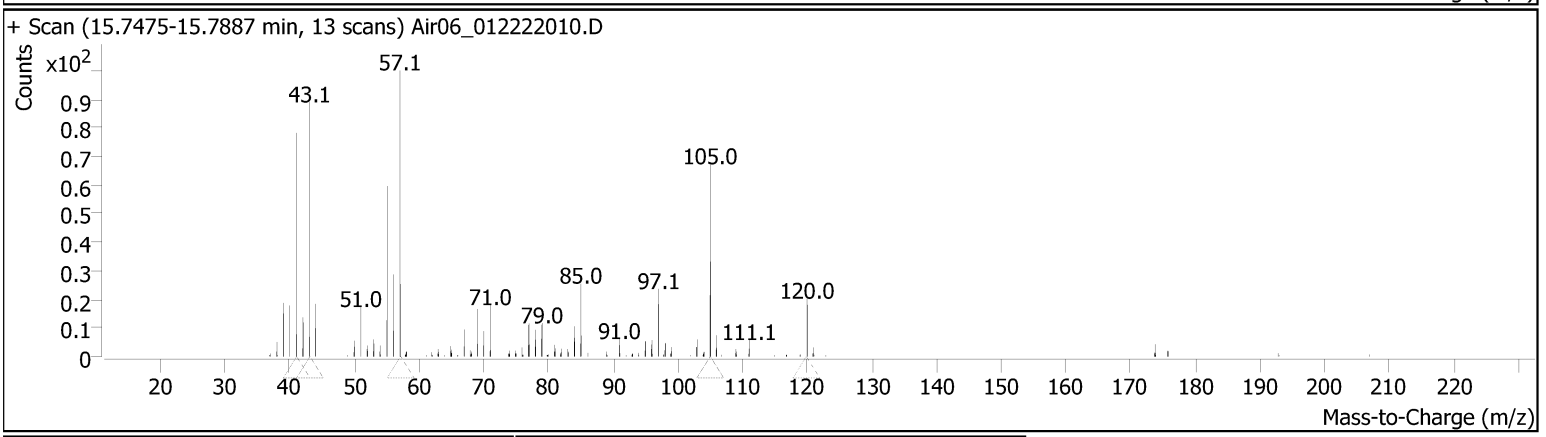



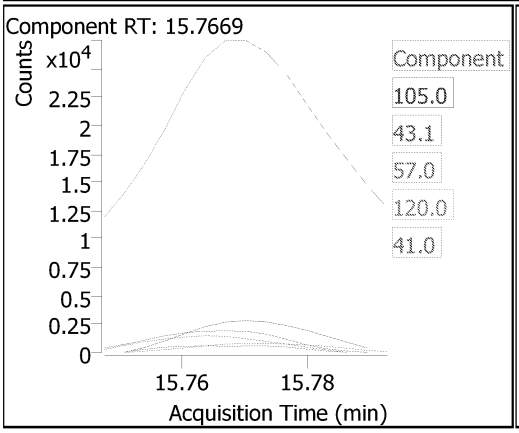



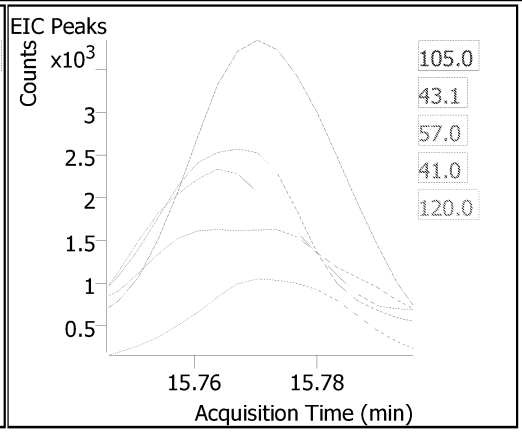
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.7669 | Benzene, (1-methylethyl)- | 25675.3 | 75.4 | 98-82-8 | C9H12 | 0.05555 |

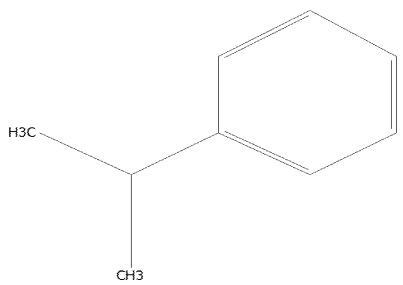


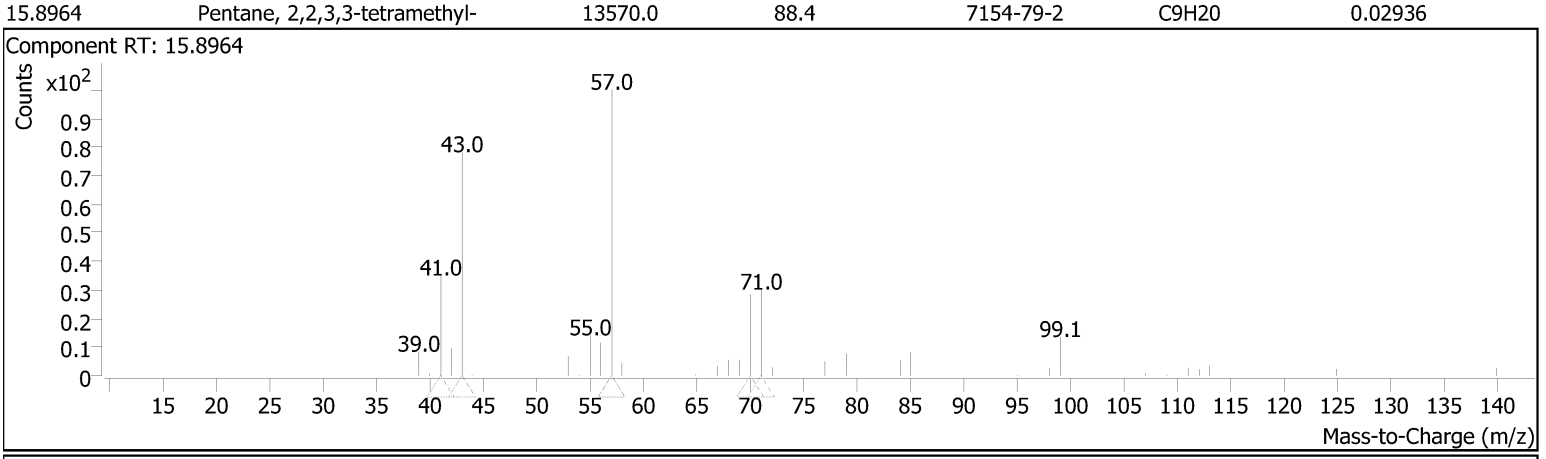



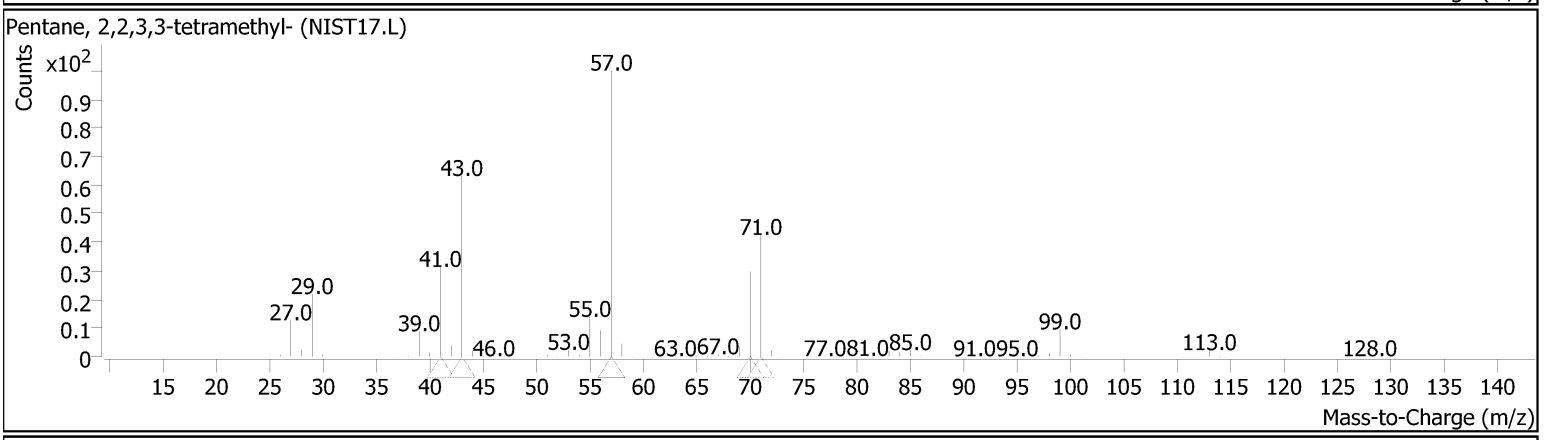



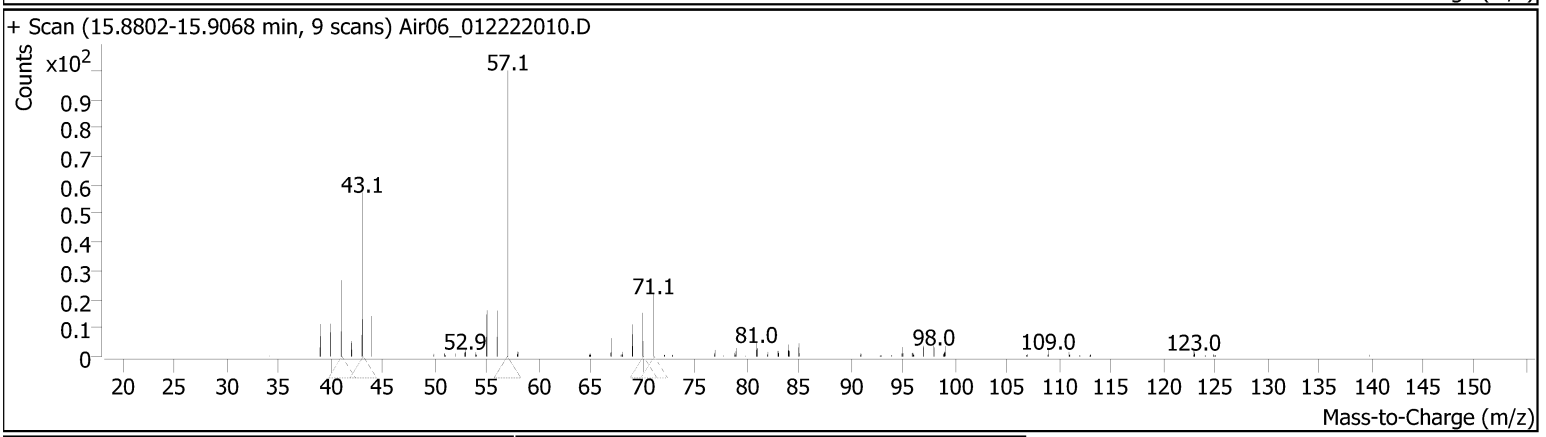



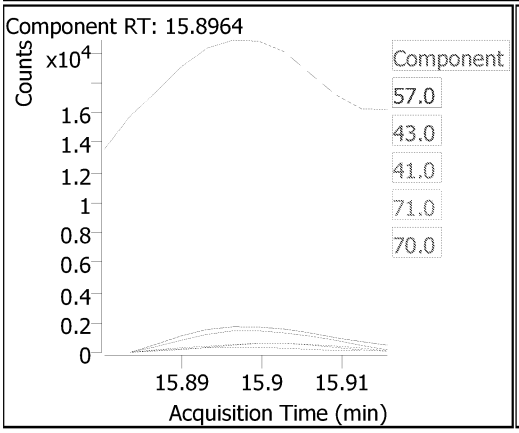



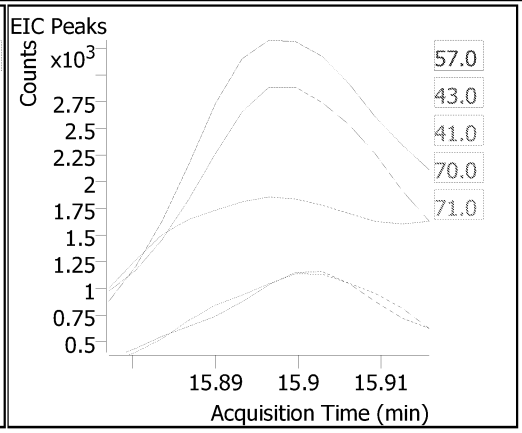
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.8964 | Pentane, 2,2,3,3-tetramethyl- | 13570.0 | 88.4 | 7154-79-2 | C9H20 | 0.02936 |

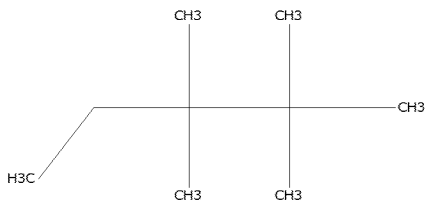


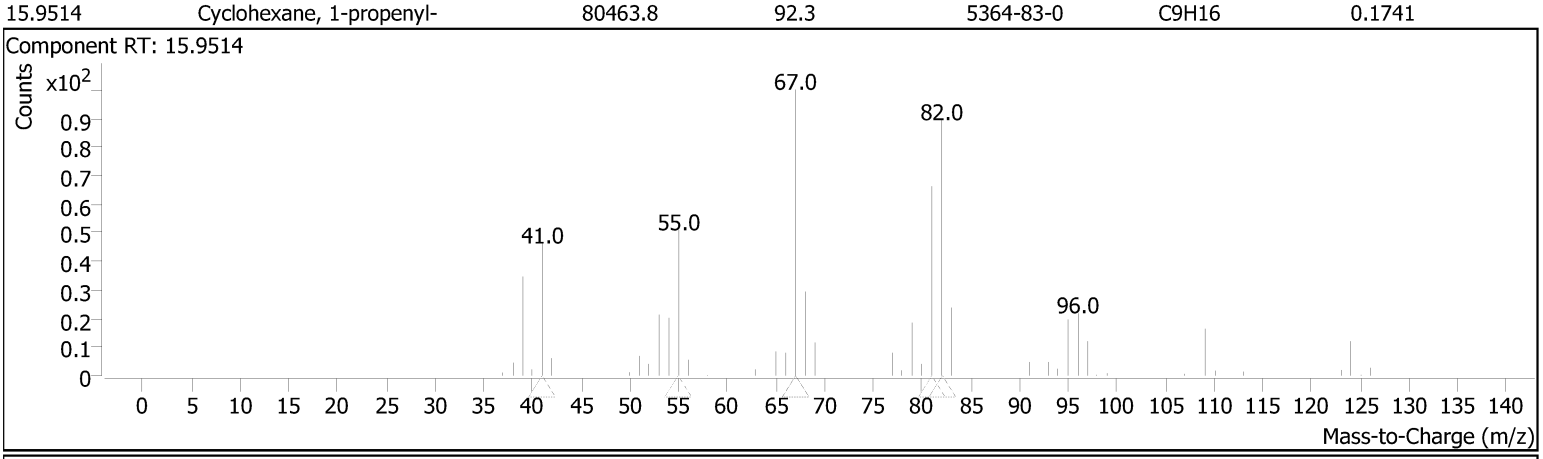



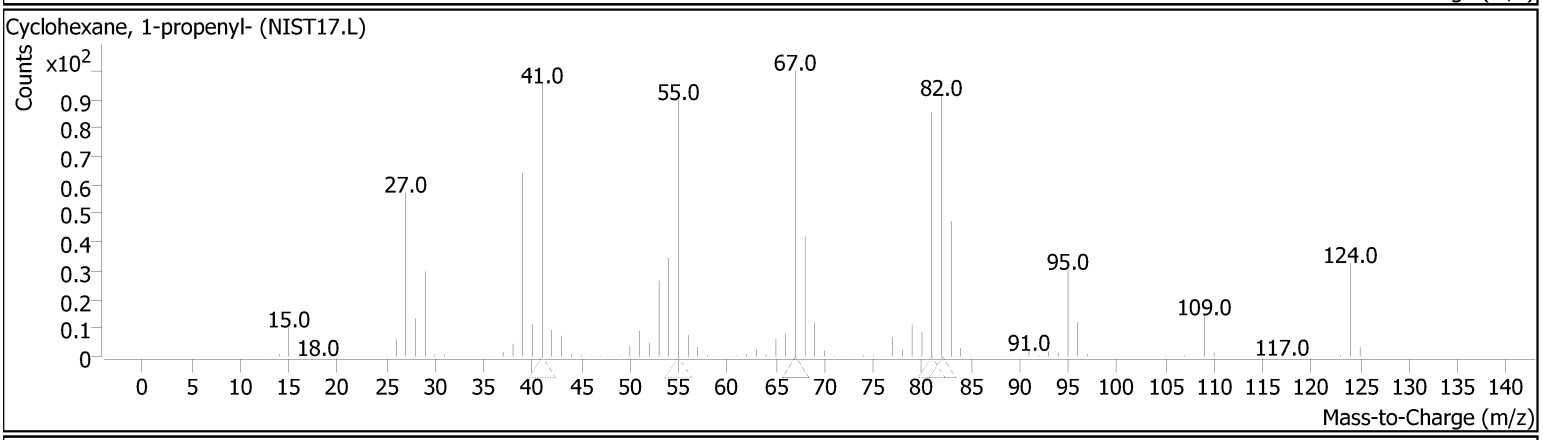



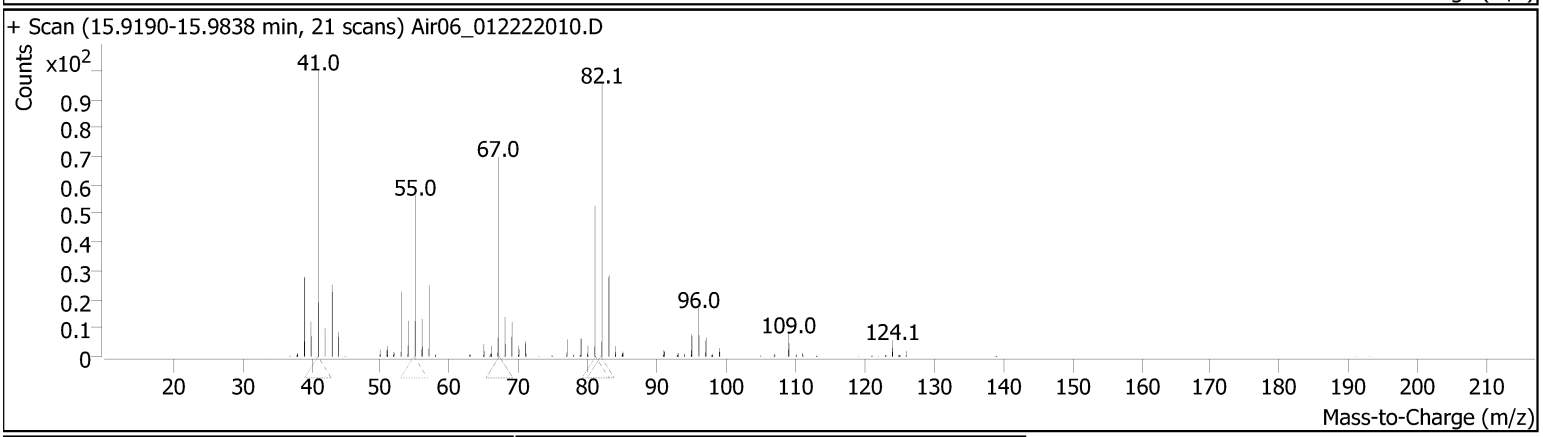



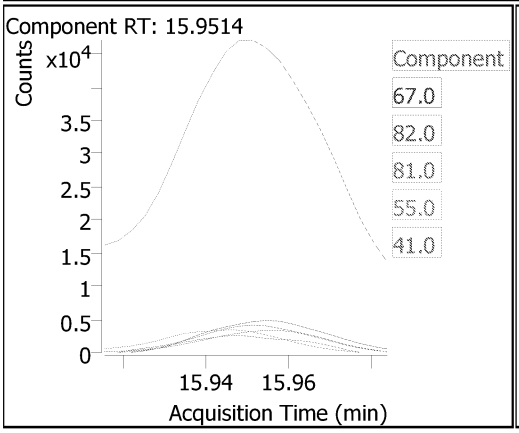



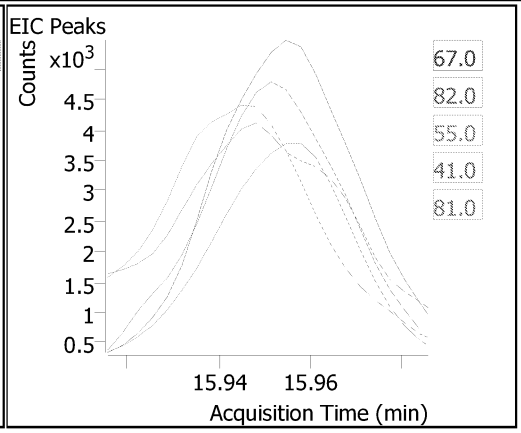
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.9514 | Cyclohexane, 1-propenyl- | 80463.8 | 92.3 | 5364-83-0 | C9H16 | 0.1741 |

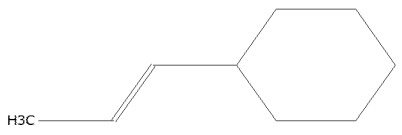


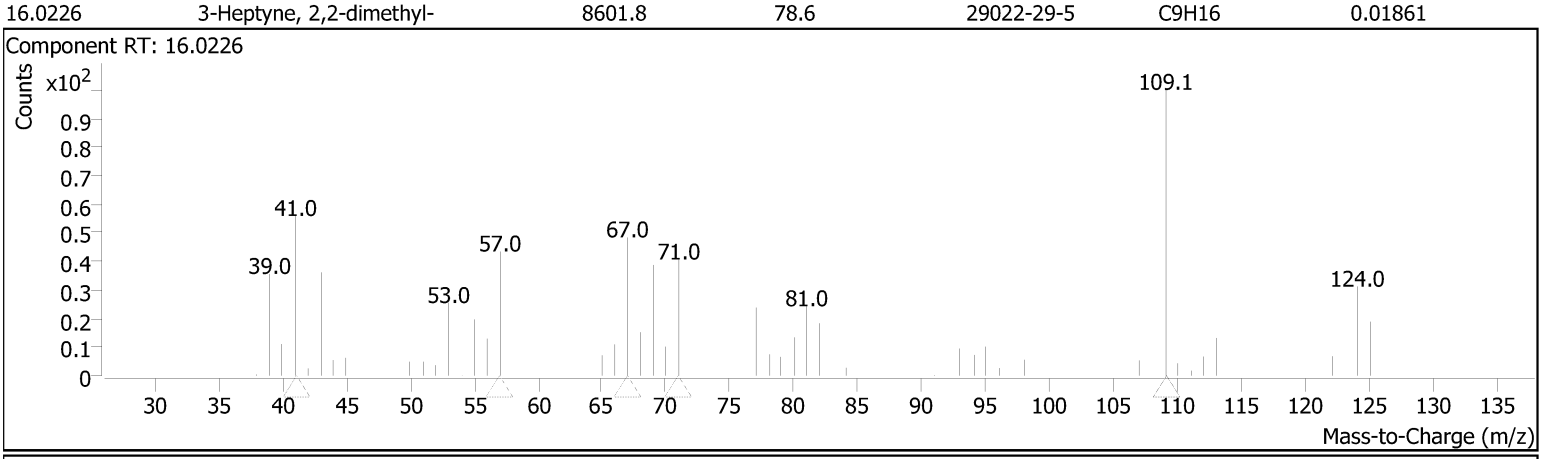



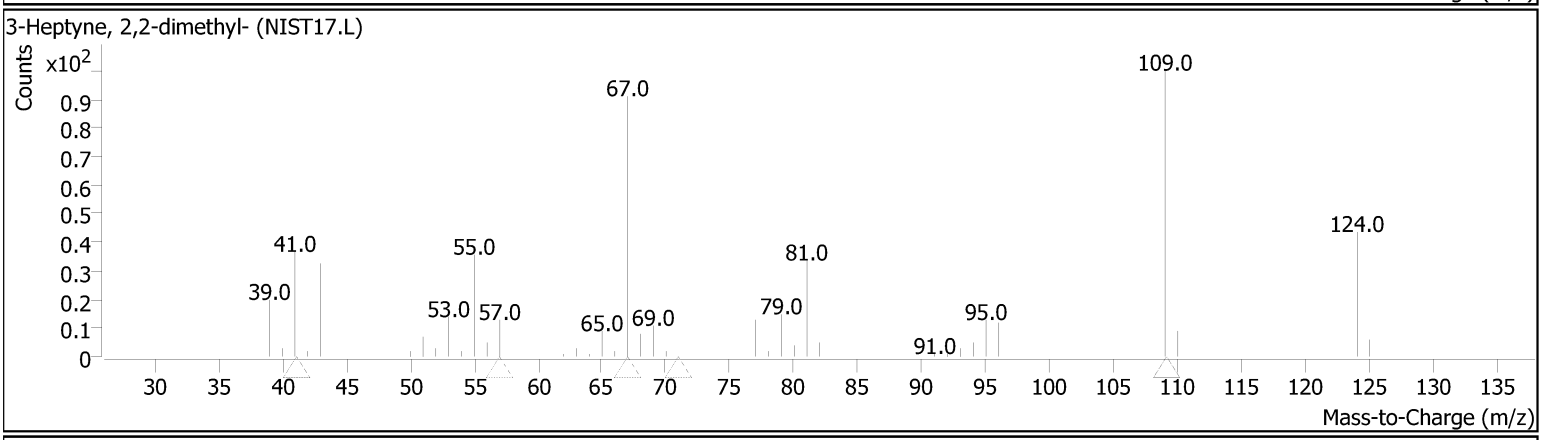



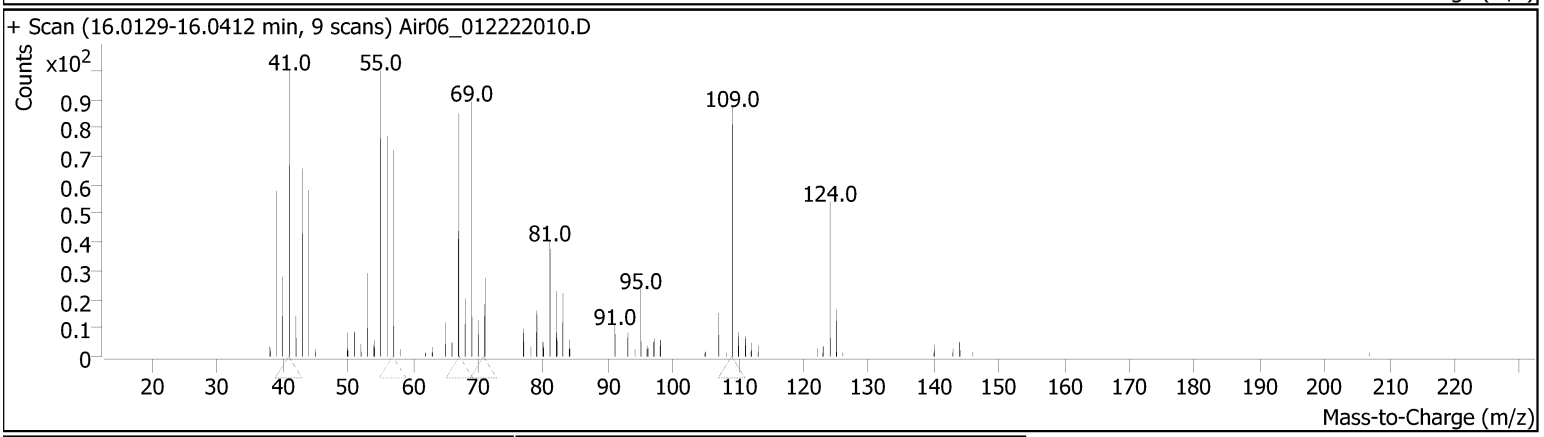



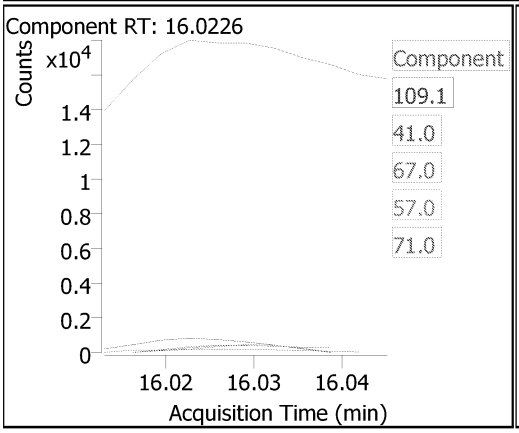



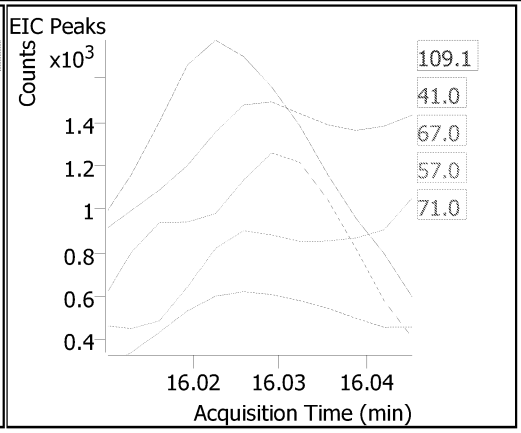
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.0226 | 3-Heptyne, 2,2-dimethyl- | 8601.8 | 78.6 | 29022-29-5 | C9H16 | 0.01861 |

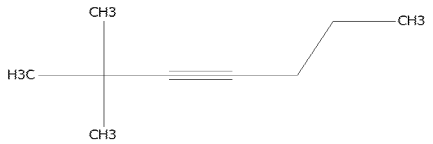


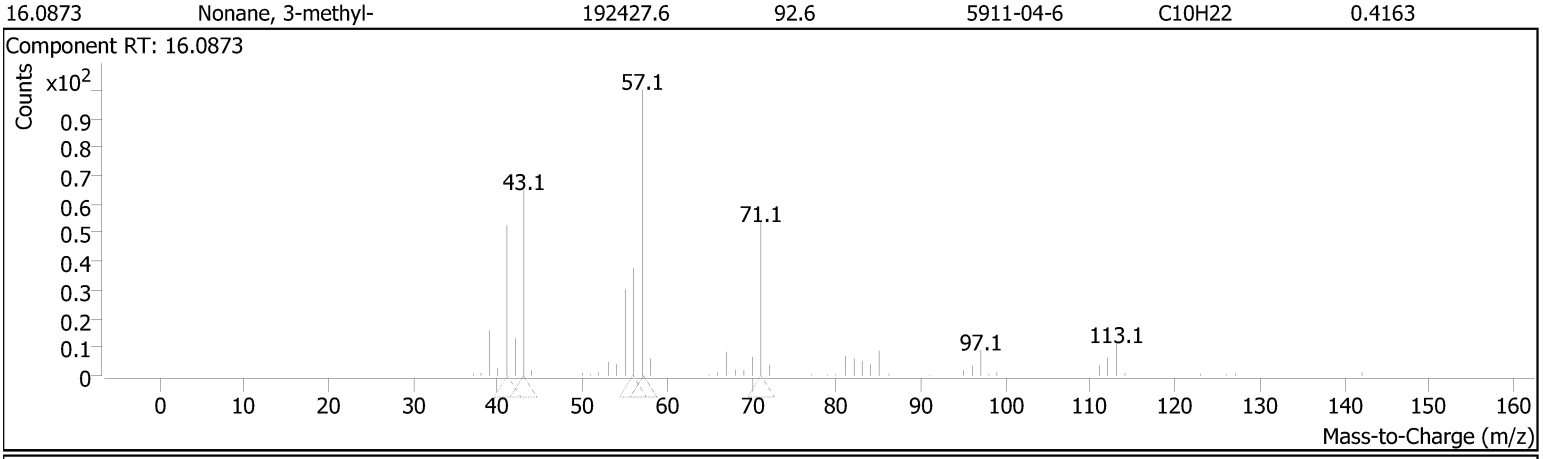



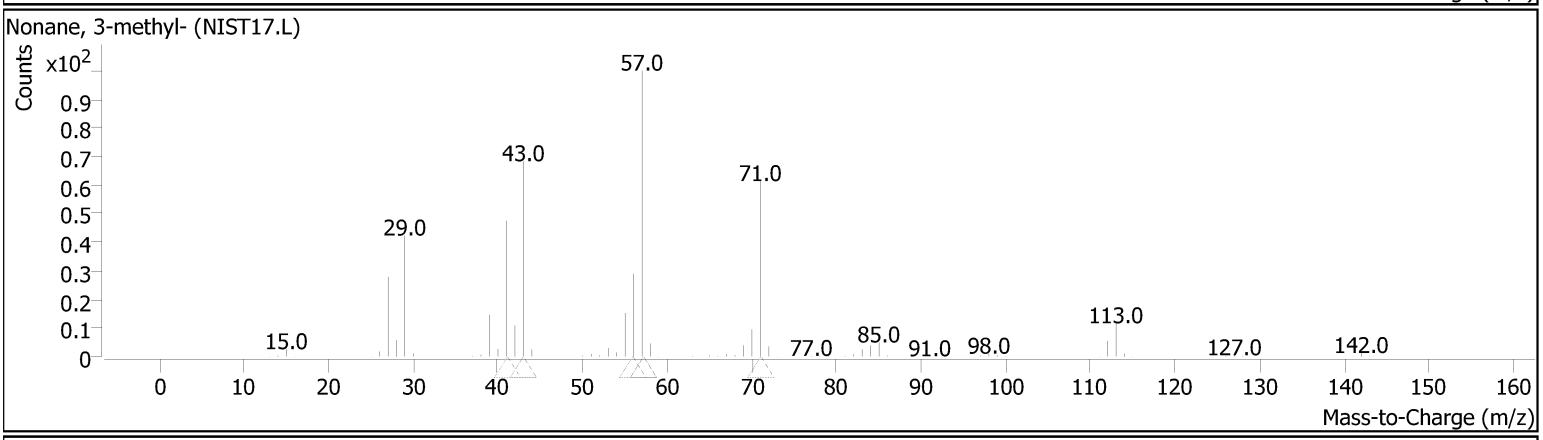



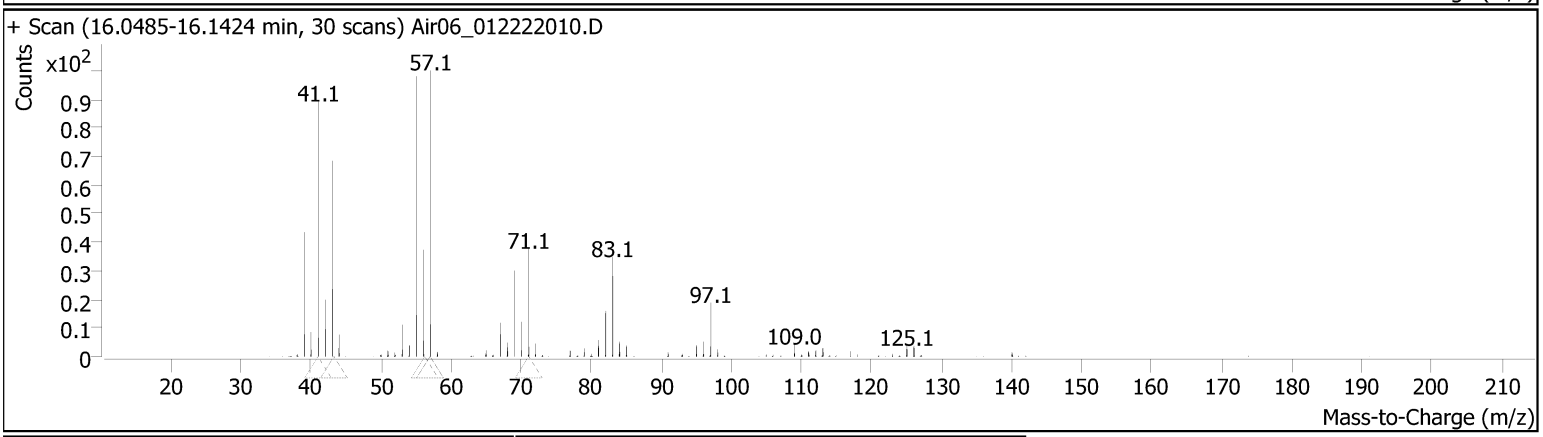



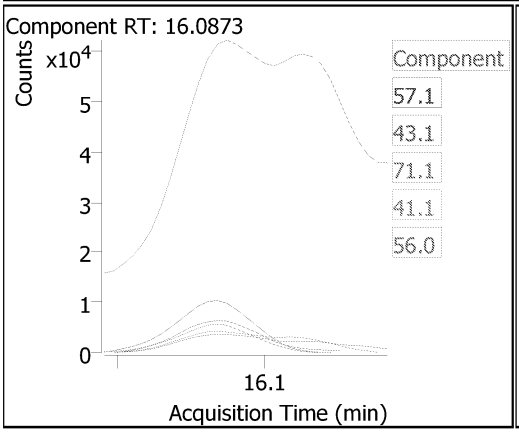



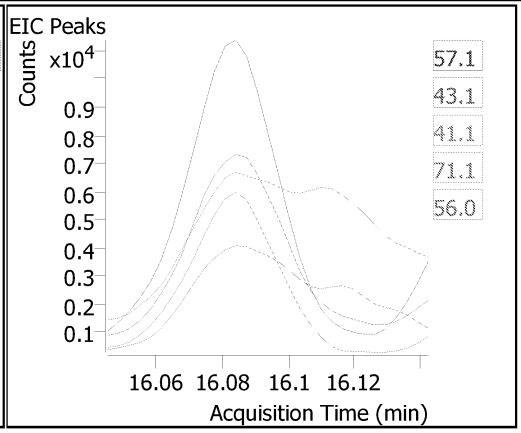
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.0873 | Nonane, 3-methyl- | 192427.6 | 92.6 | 5911-04-6 | C10H22 | 0.4163 |



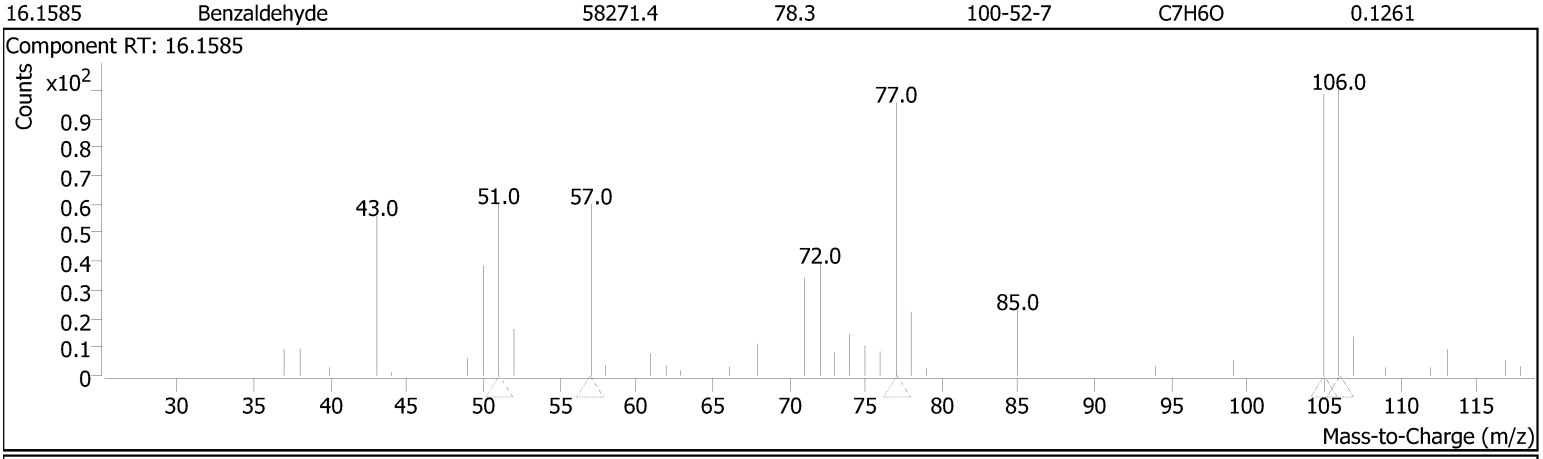



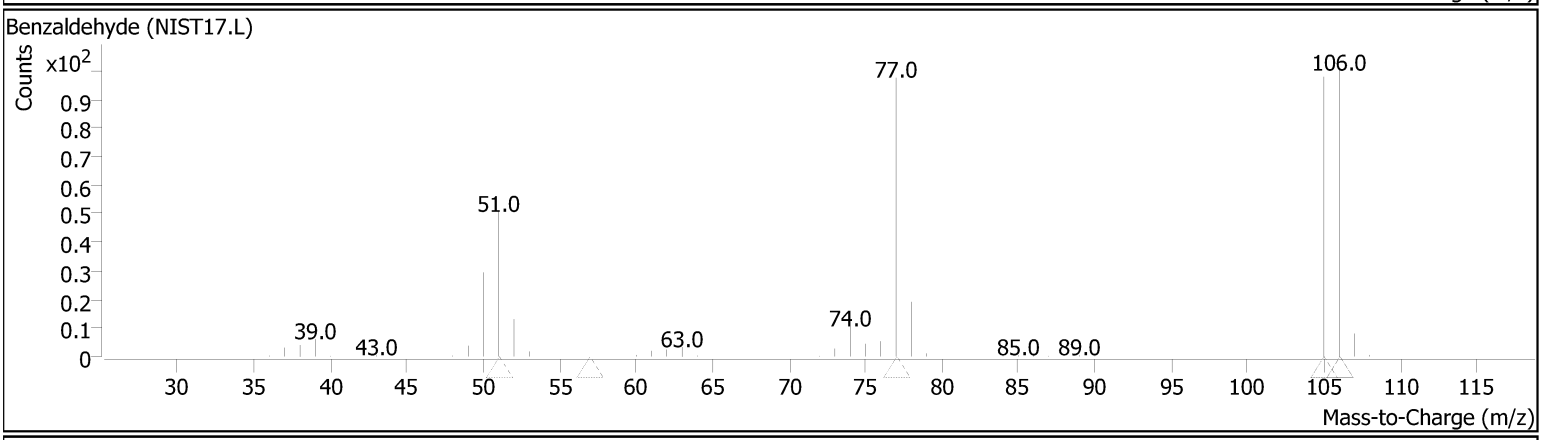



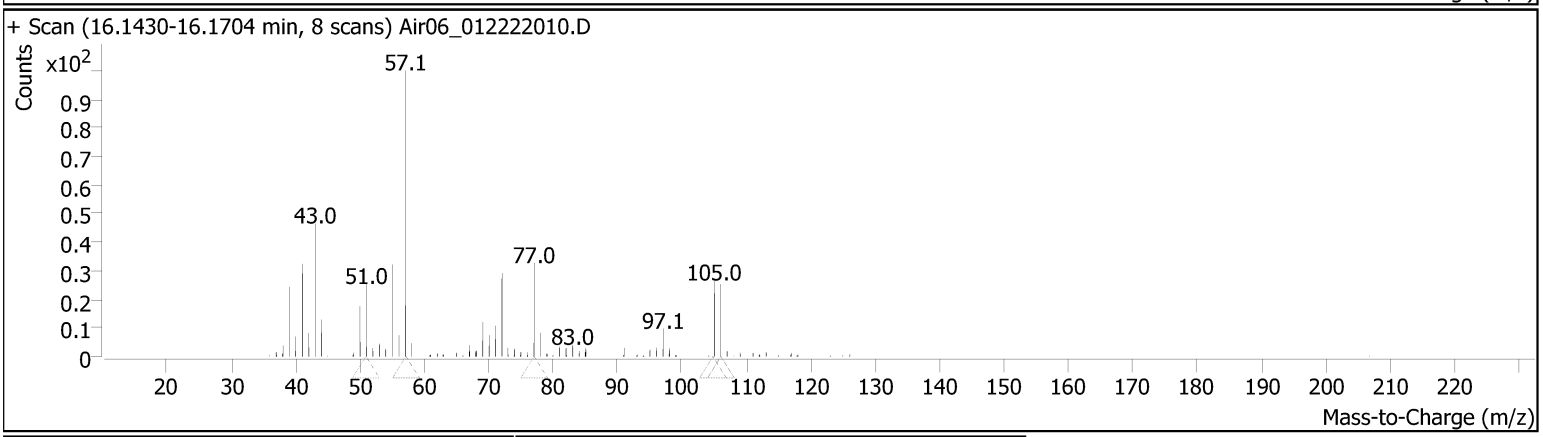



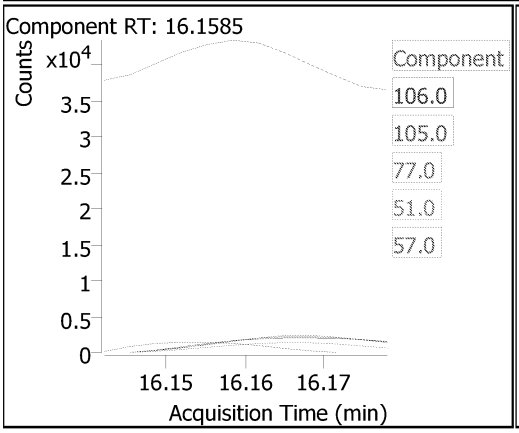


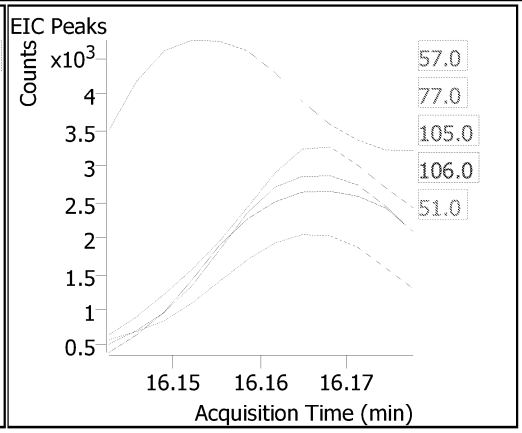

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1585 | Benzaldehyde | 58271.4 | 78.3 | 100-52-7 | C7H6O | 0.1261 |

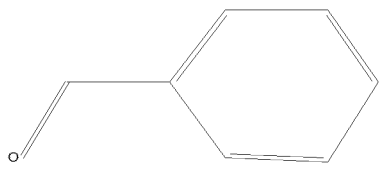


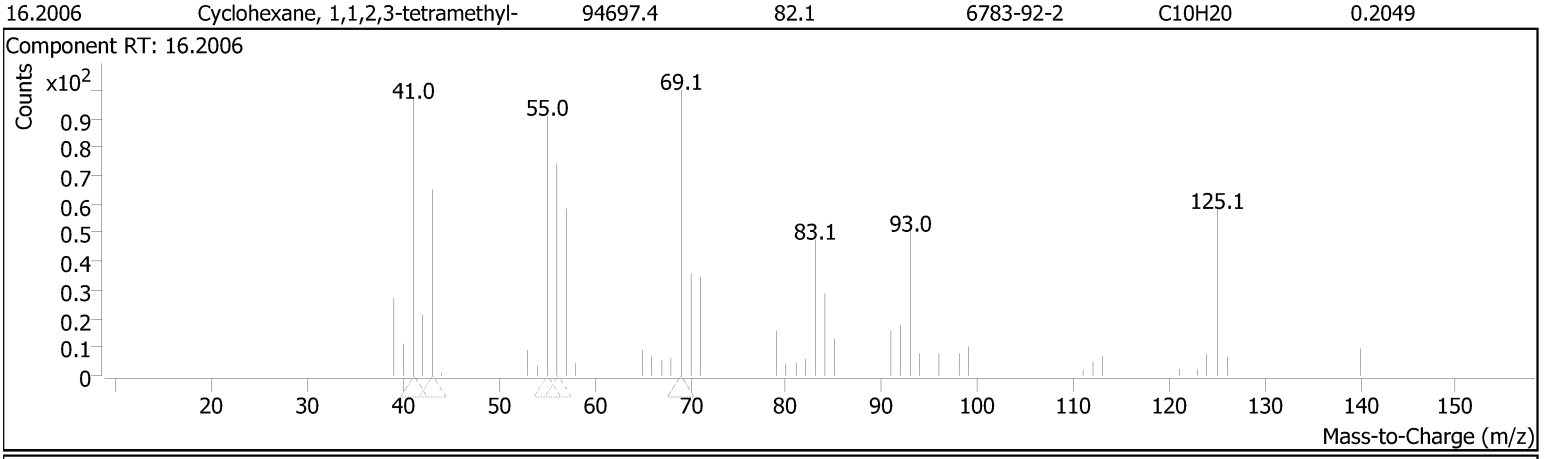



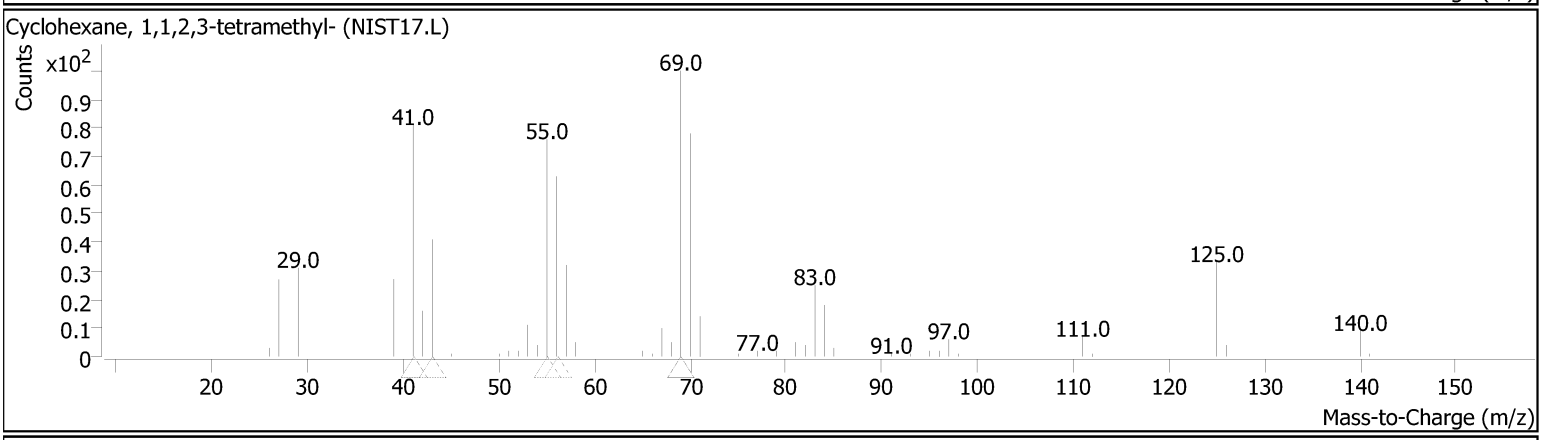



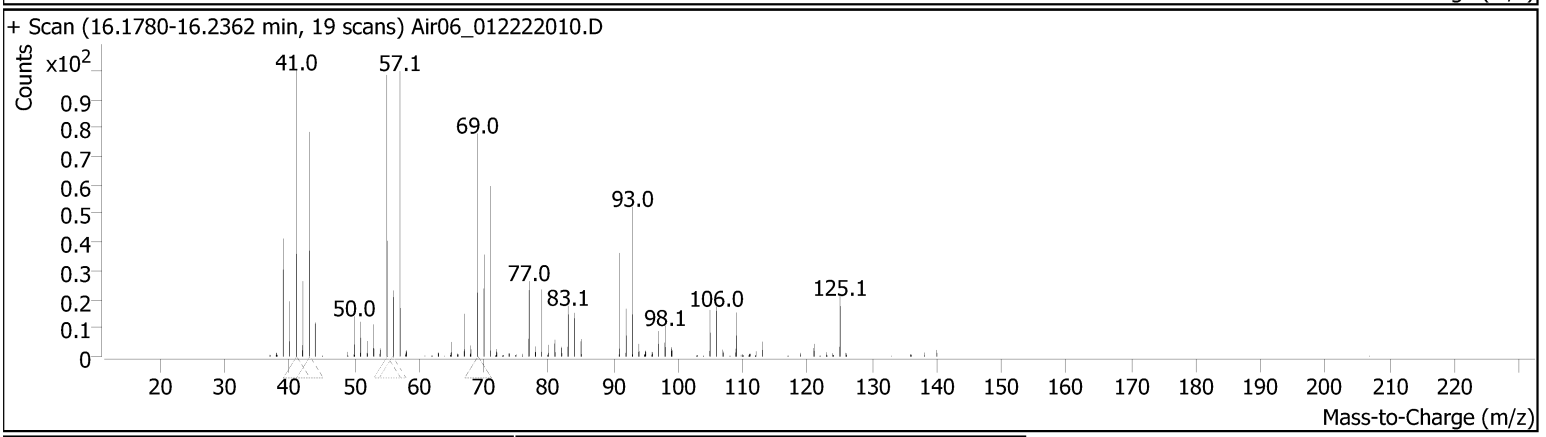



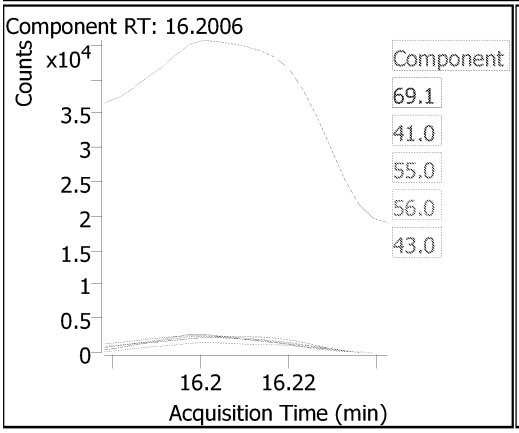



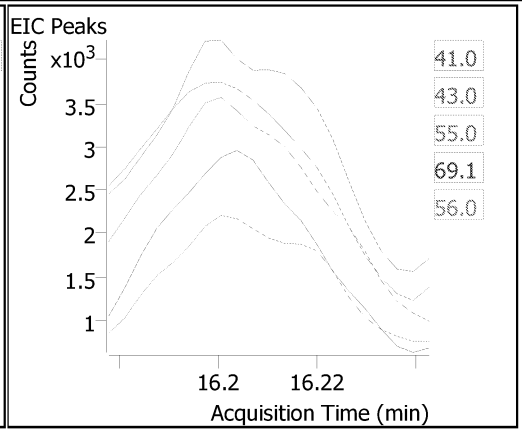
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.2006 | Cyclohexane, 1,1,2,3-tetramethyl- | 94697.4 | 82.1 | 6783-92-2 | C10H20 | 0.2049 |

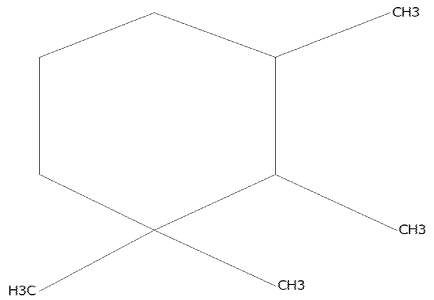


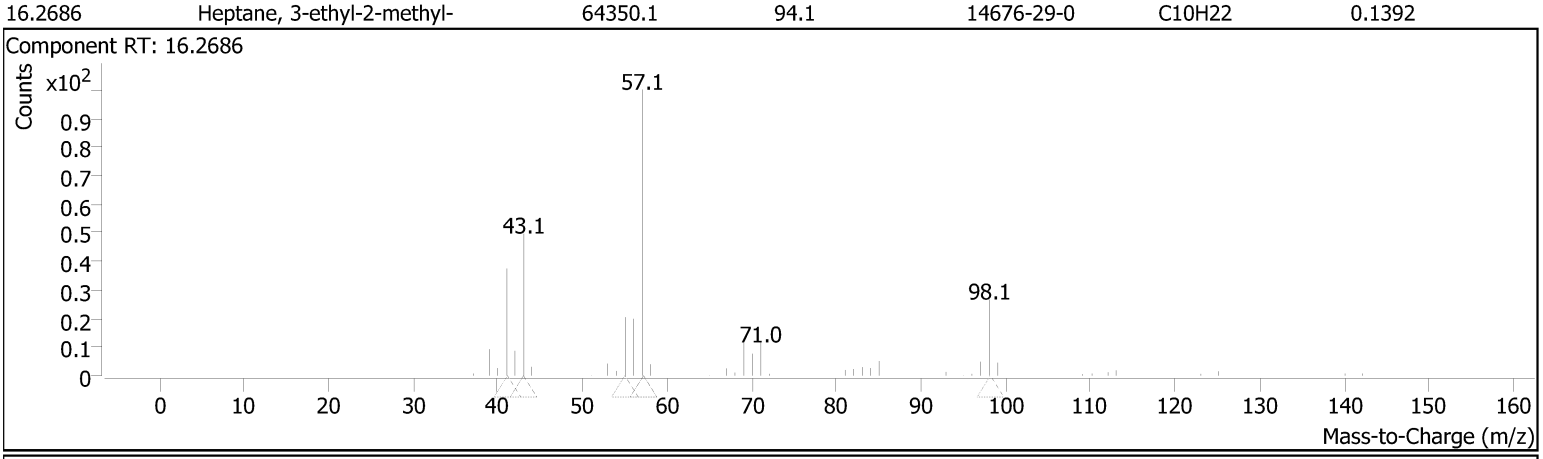



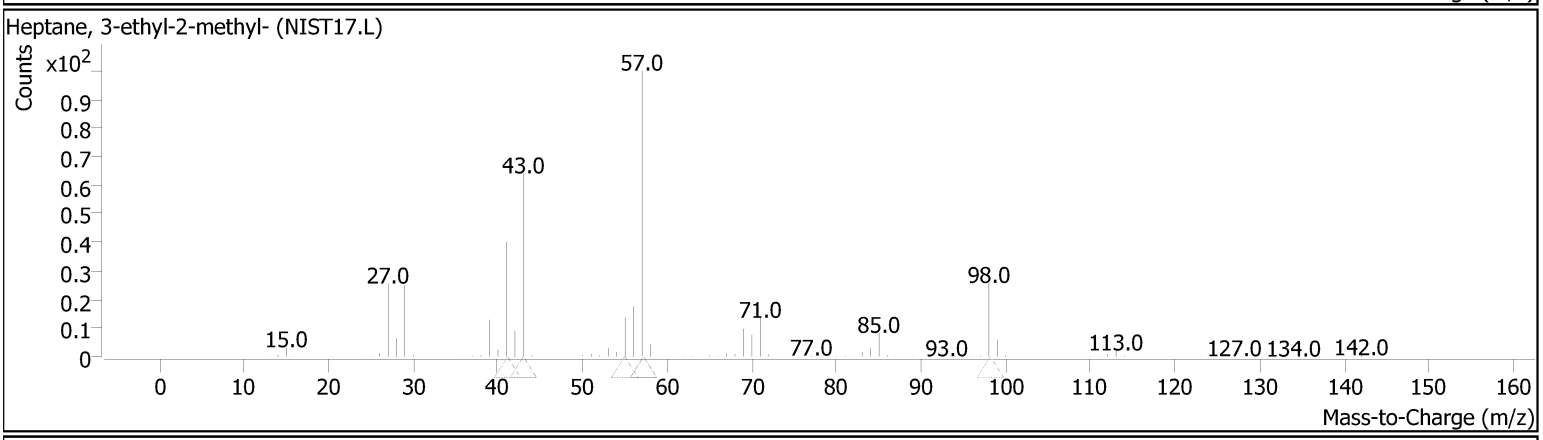



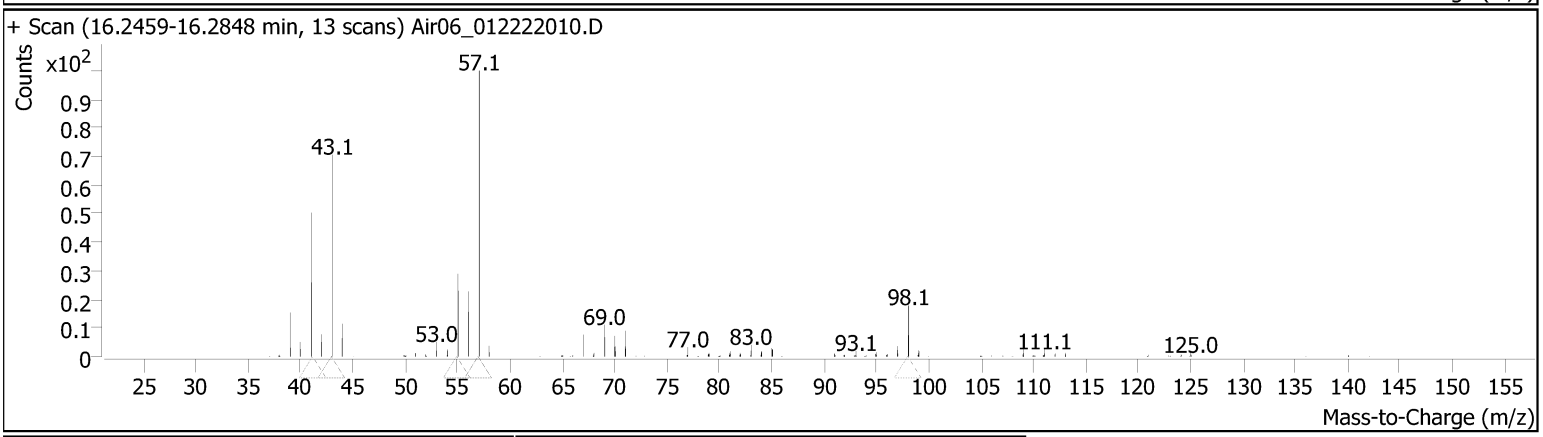



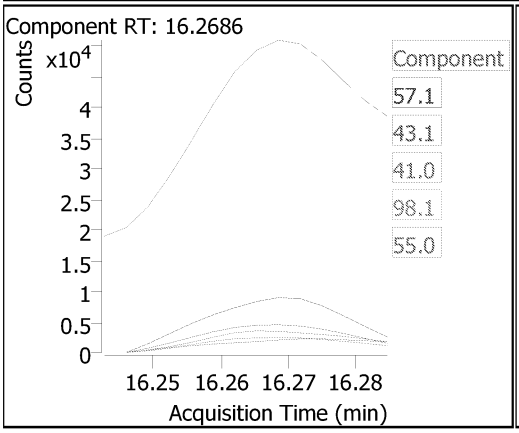



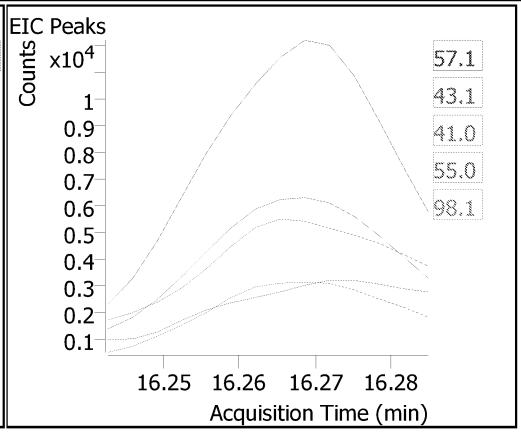
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.2686 | Heptane, 3-ethyl-2-methyl- | 64350.1 | 94.1 | 14676-29-0 | C10H22 | 0.1392 |

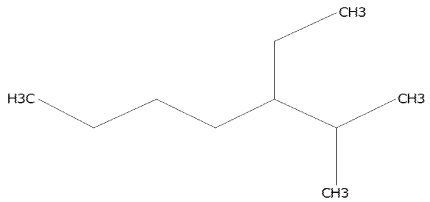


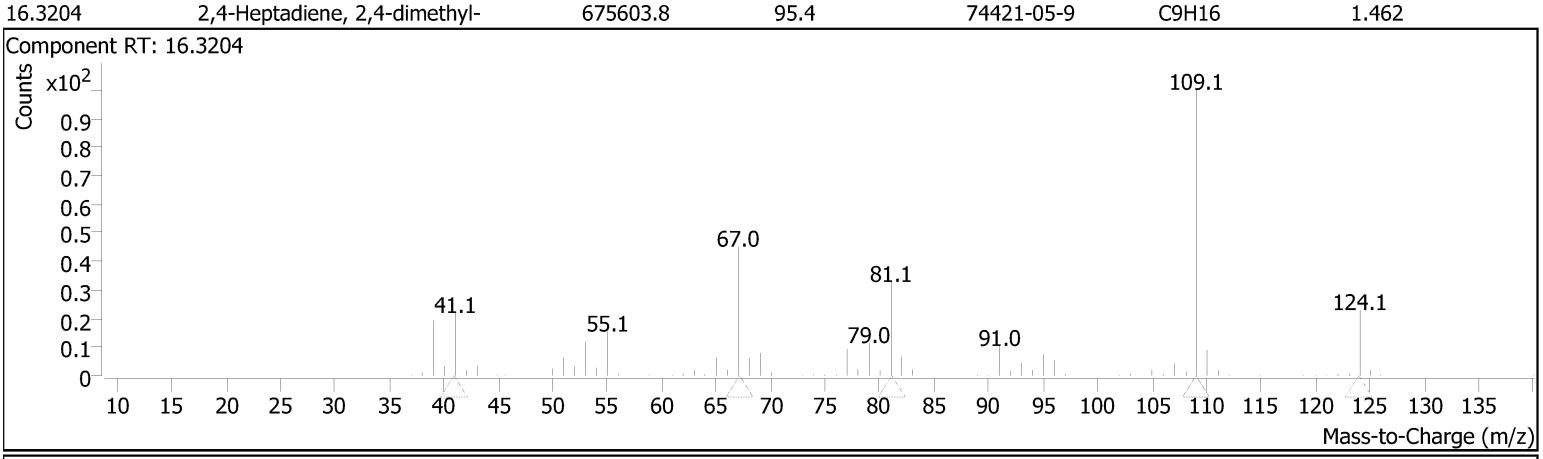



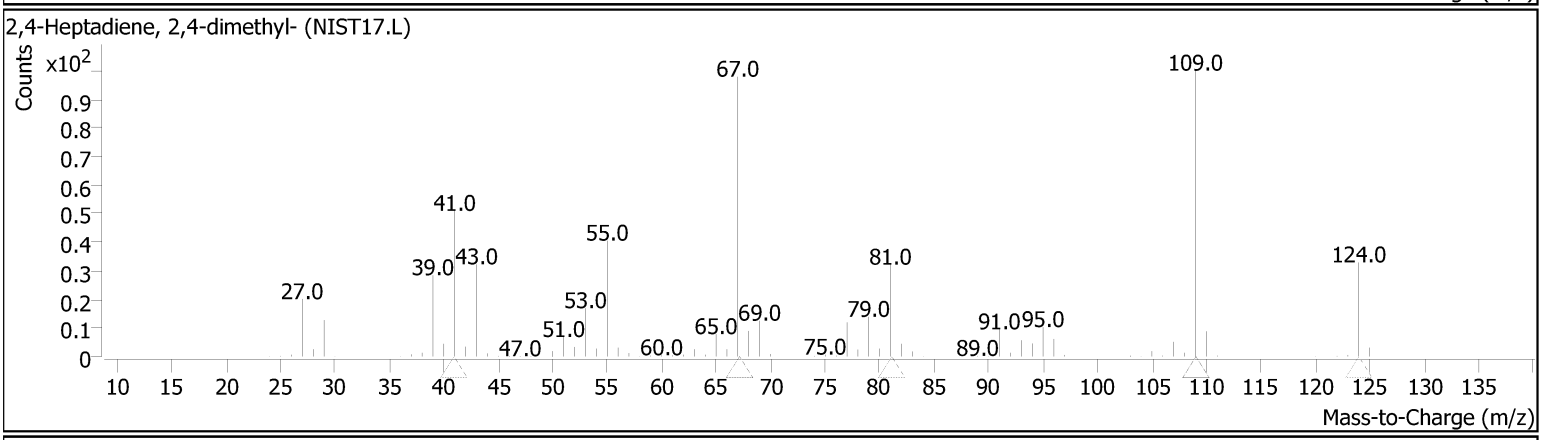



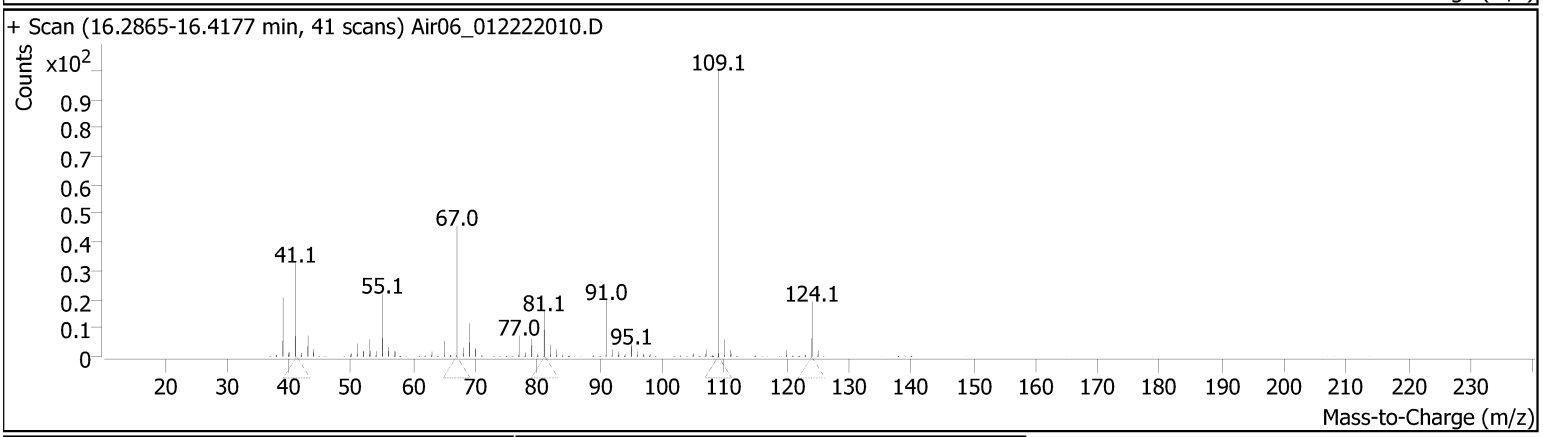



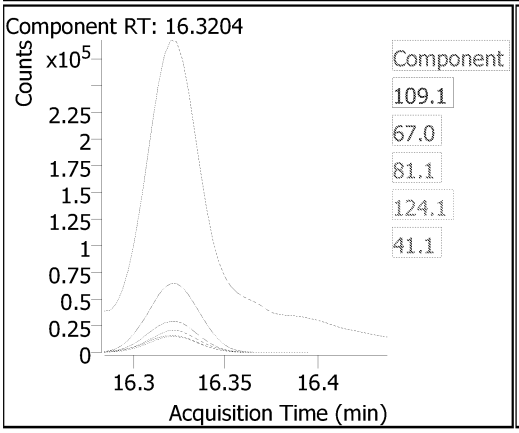



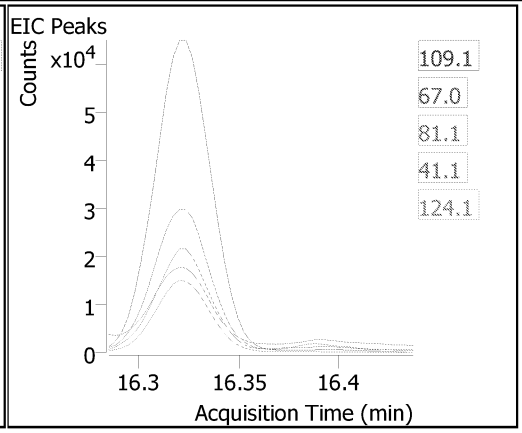
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.3204 | 2,4-Heptadiene, 2,4-dimethyl- | 675603.8 | 95.4 | 74421-05-9 | C9H16 | 1.462 |

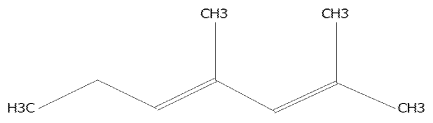


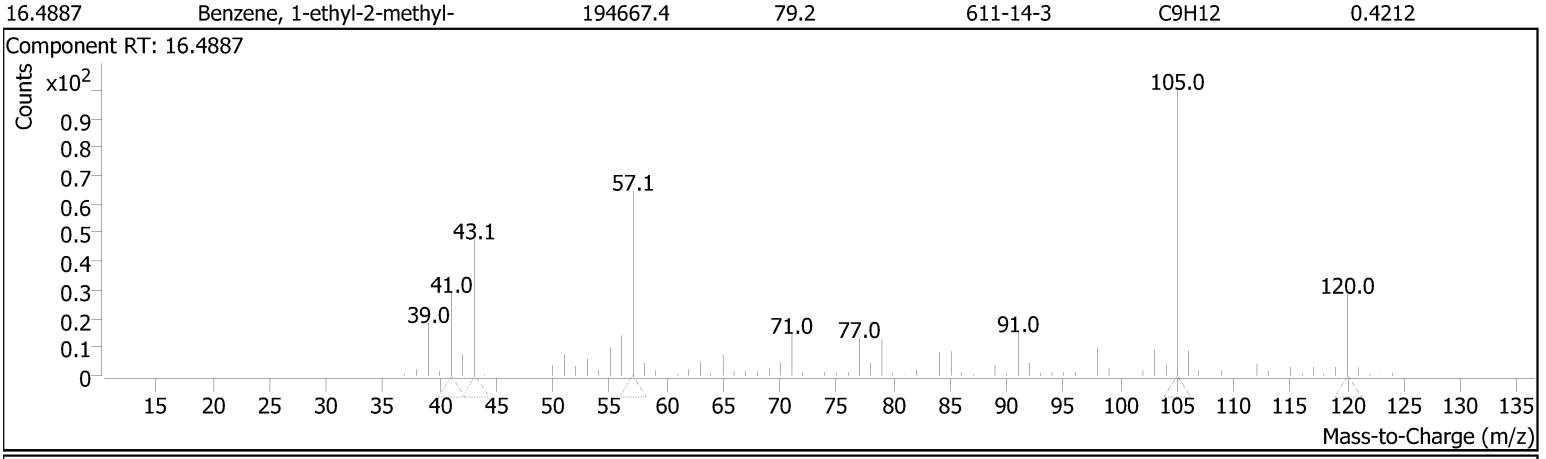



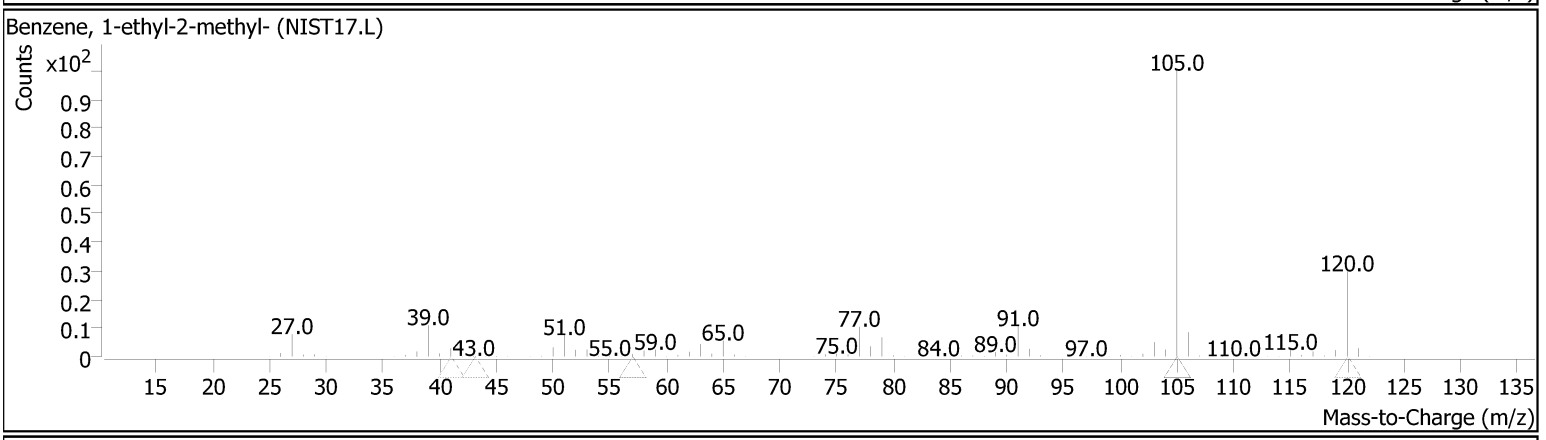



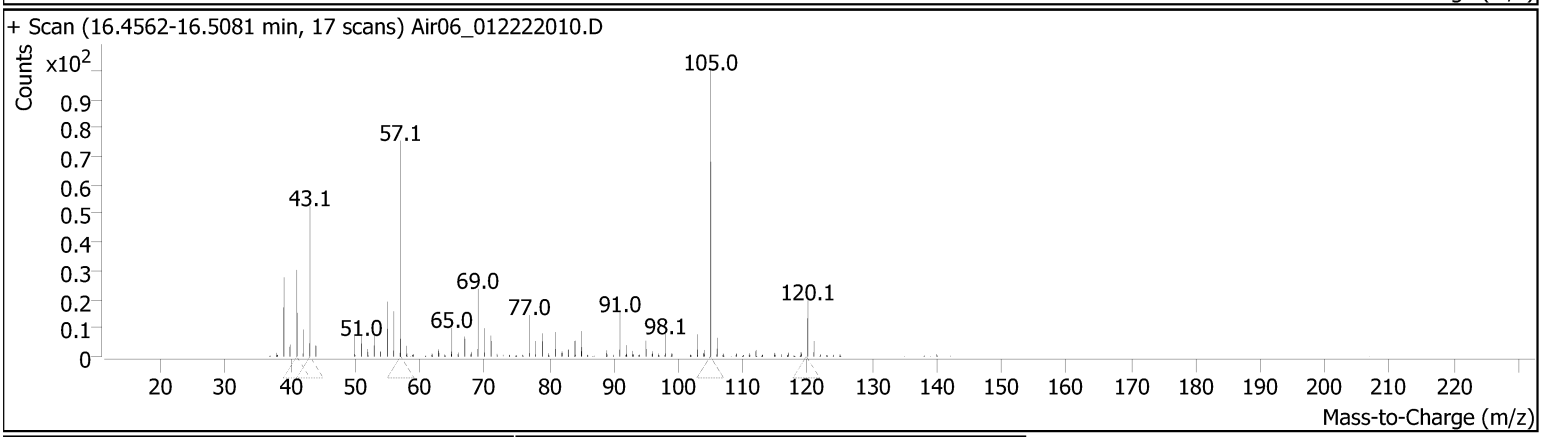



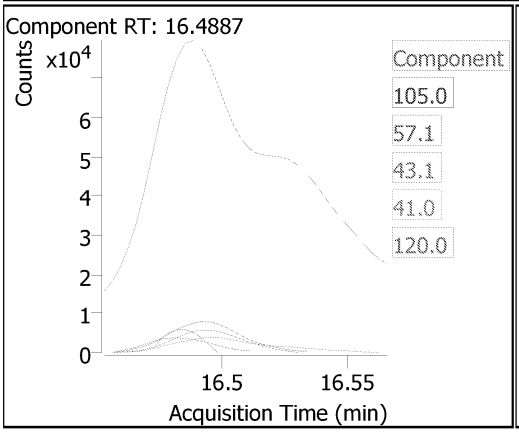



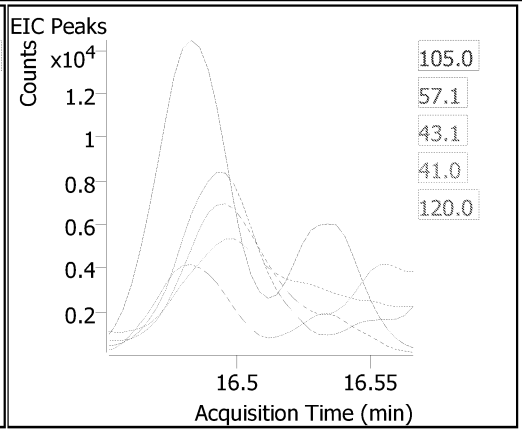
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.4887 | Benzene, 1-ethyl-2-methyl- | 194667.4 | 79.2 | 611-14-3 | C9H12 | 0.4212 |

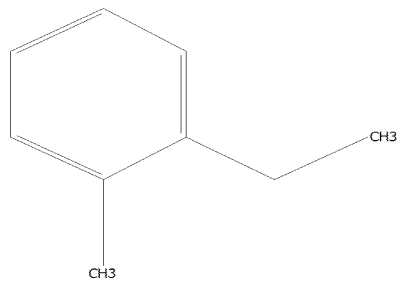


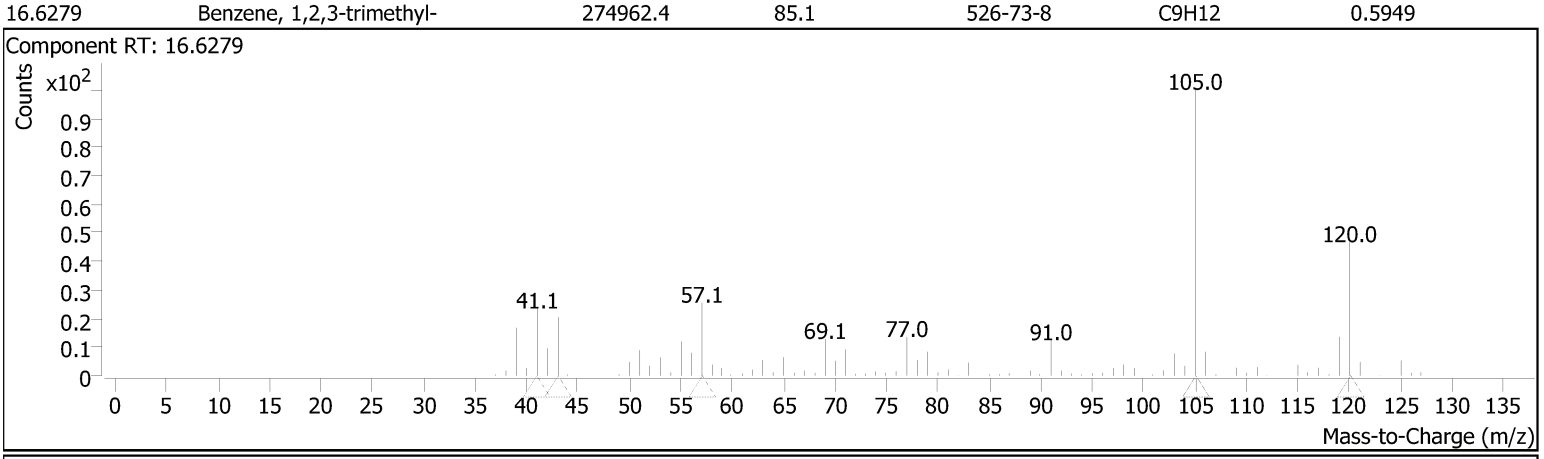



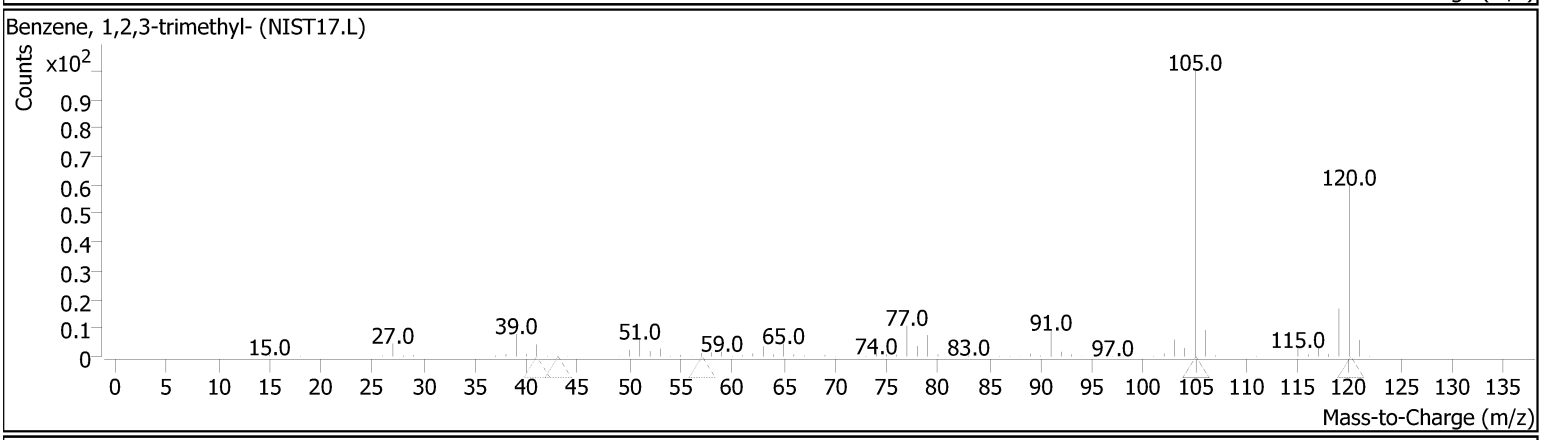



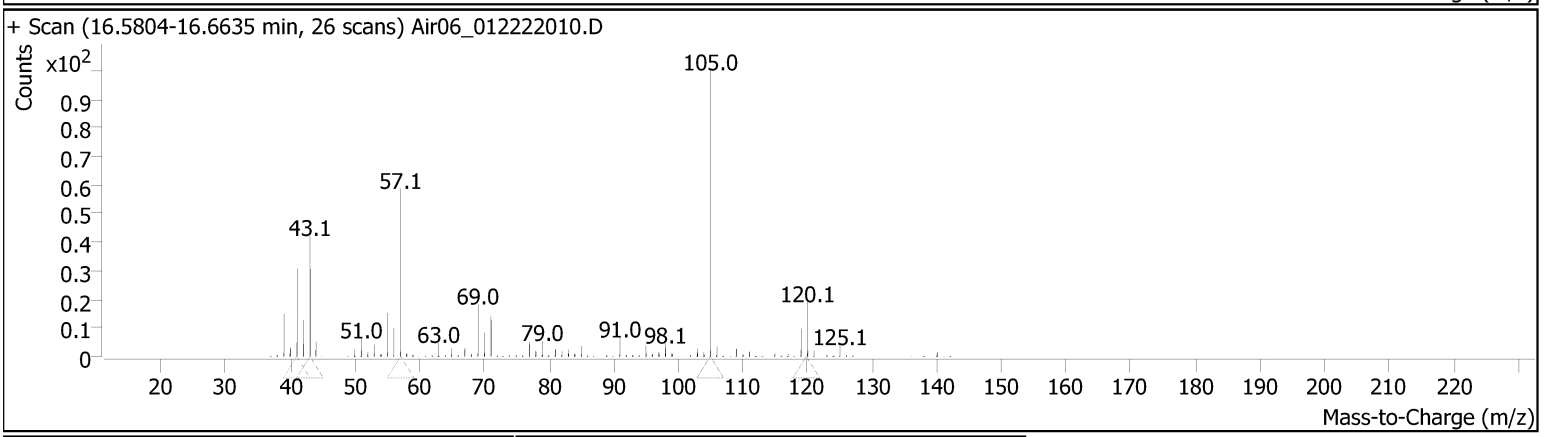



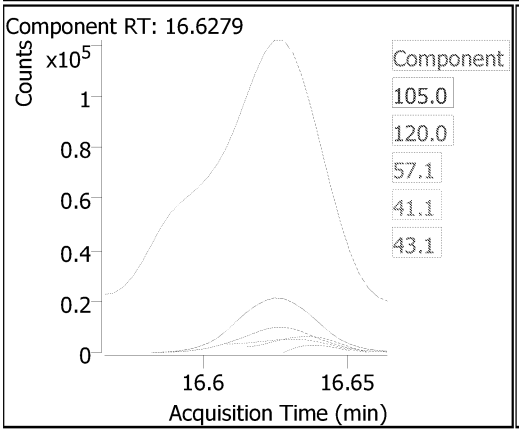



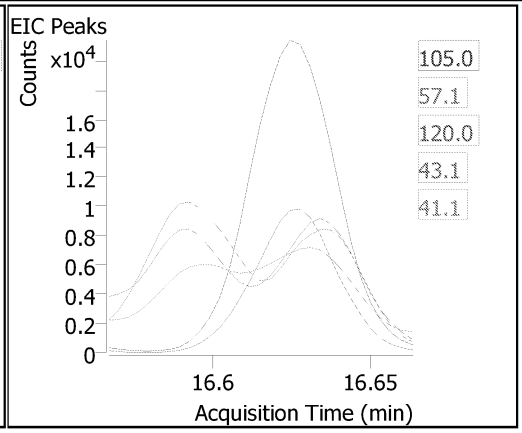
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.6279 | Benzene, 1,2,3-trimethyl- | 274962.4 | 85.1 | 526-73-8 | C9H12 | 0.5949 |

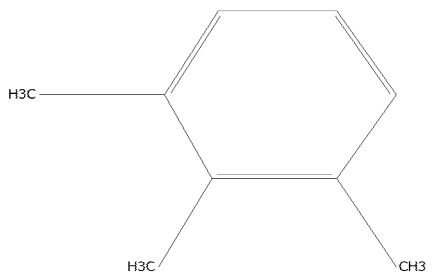


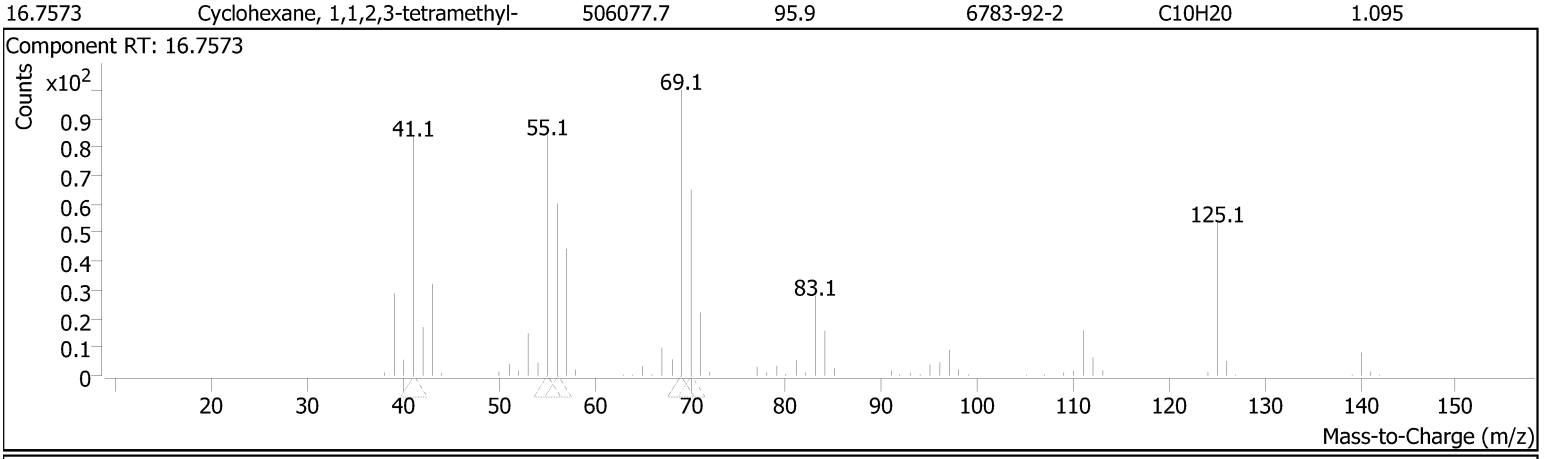



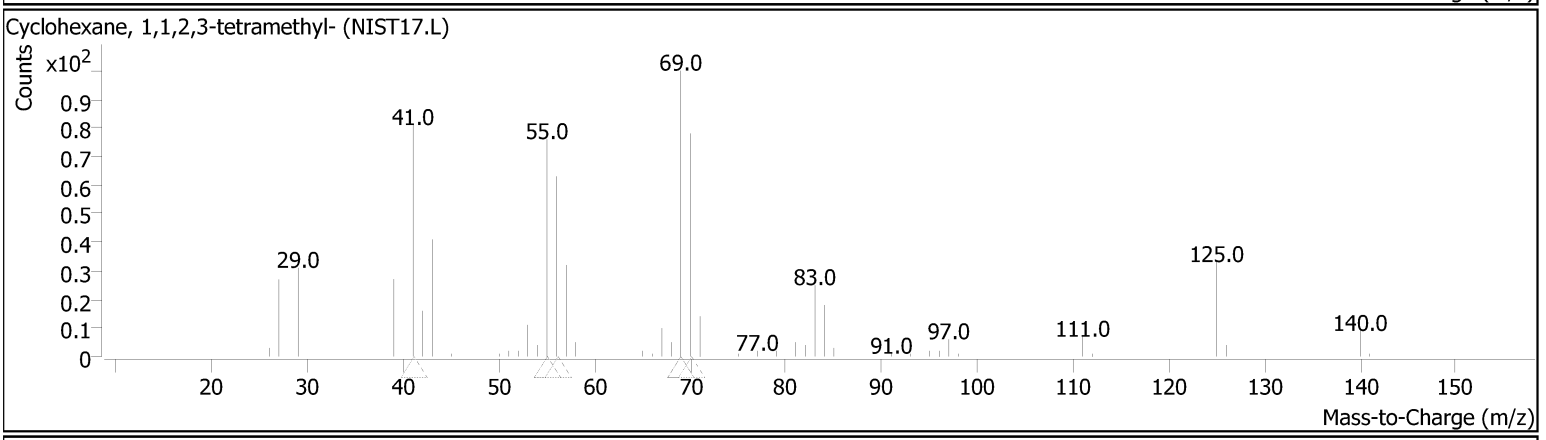



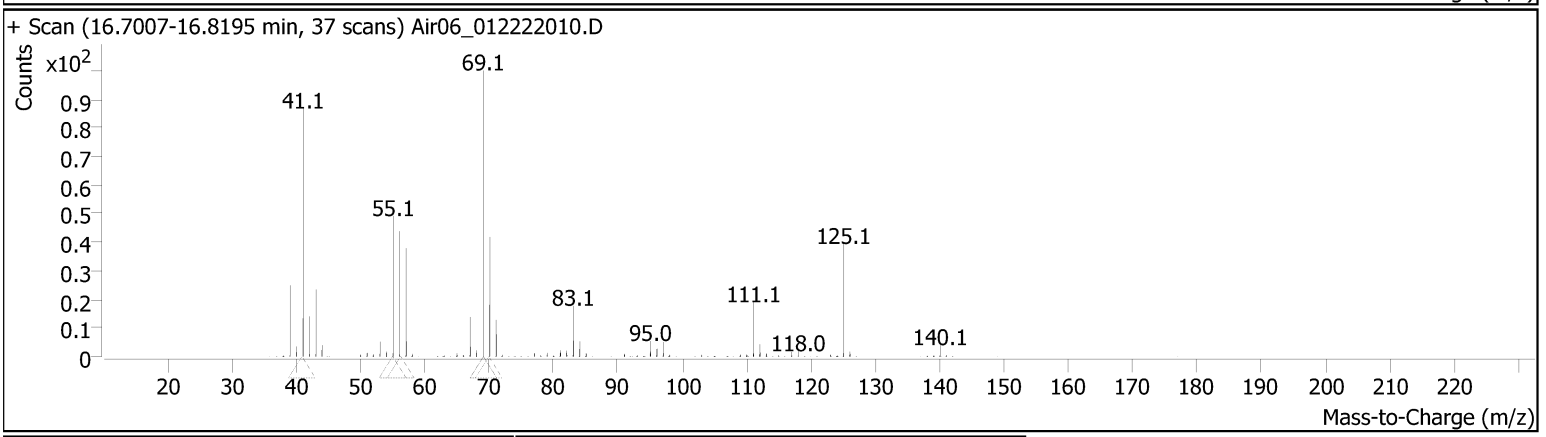



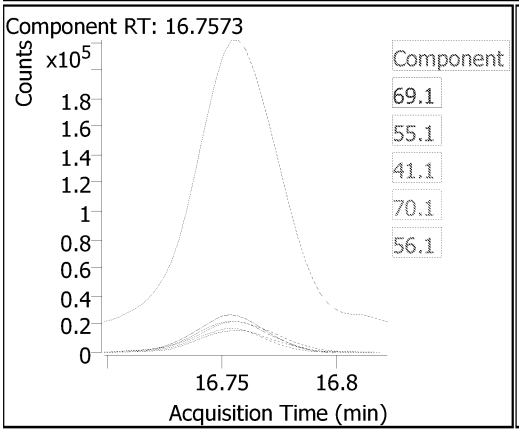



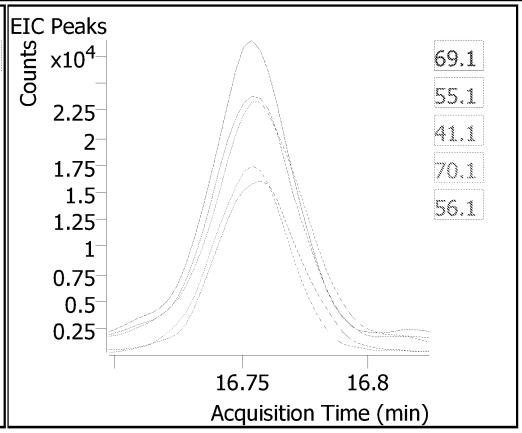
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.7573 | Cyclohexane, 1,1,2,3-tetramethyl- | 506077.7 | 95.9 | 6783-92-2 | C10H20 | 1.095 |

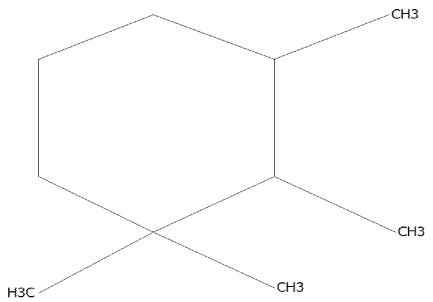


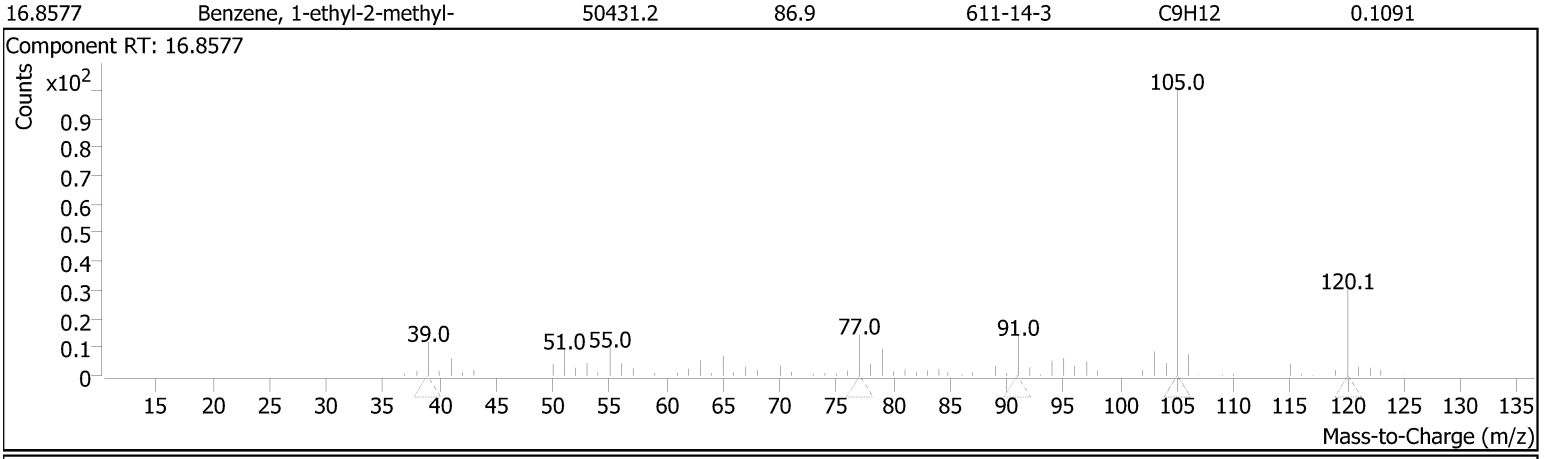



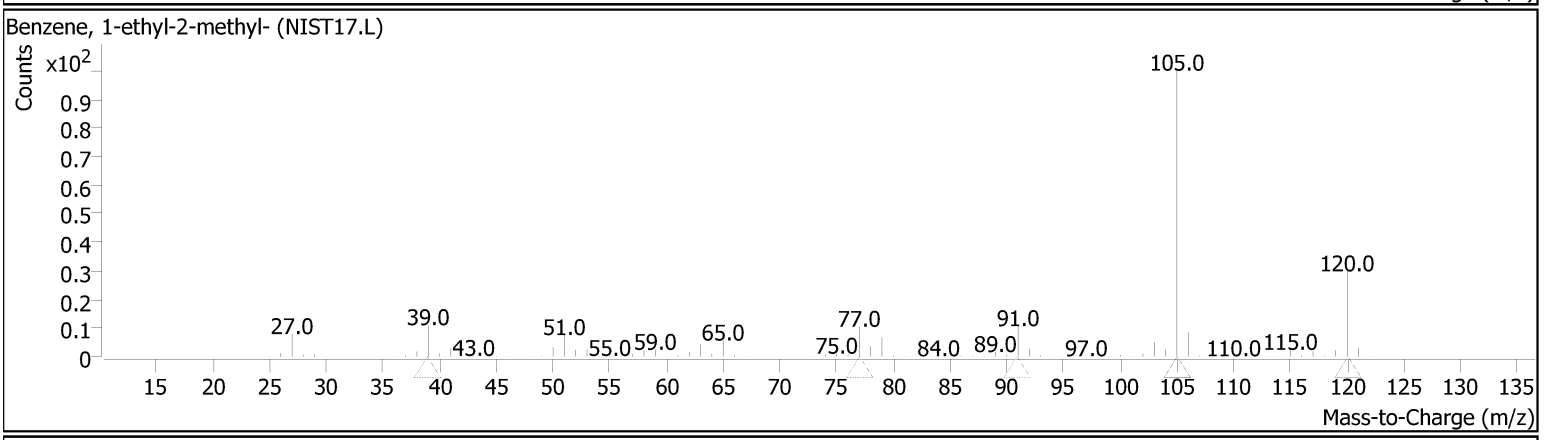



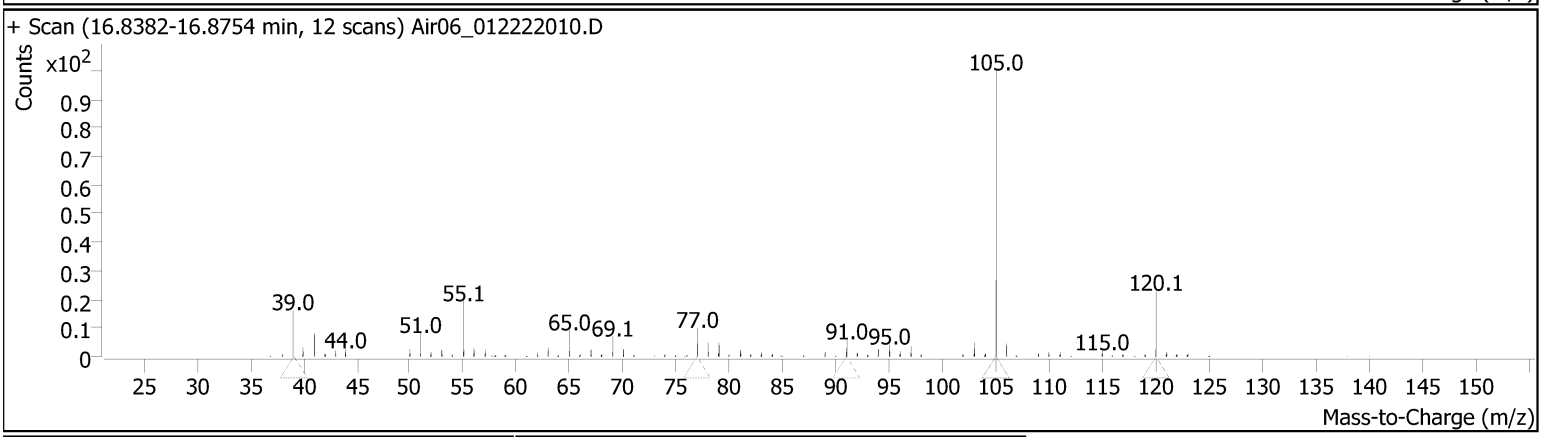



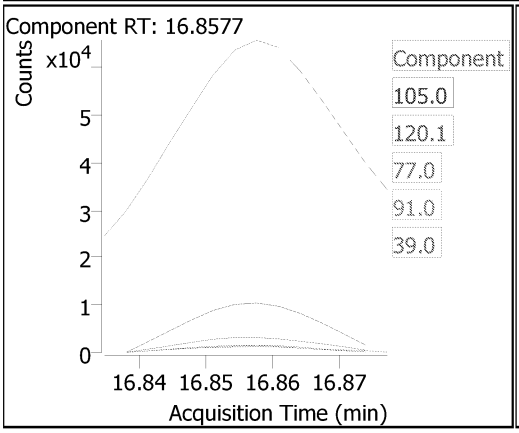



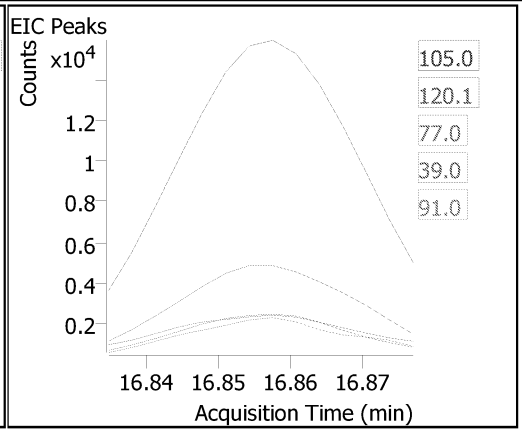
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.8577 | Benzene, 1-ethyl-2-methyl- | 50431.2 | 86.9 | 611-14-3 | C9H12 | 0.1091 |

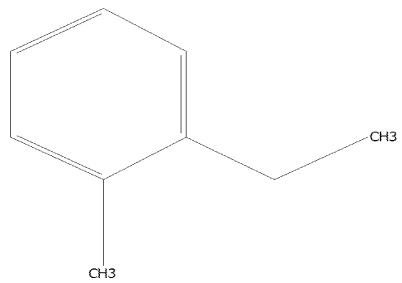


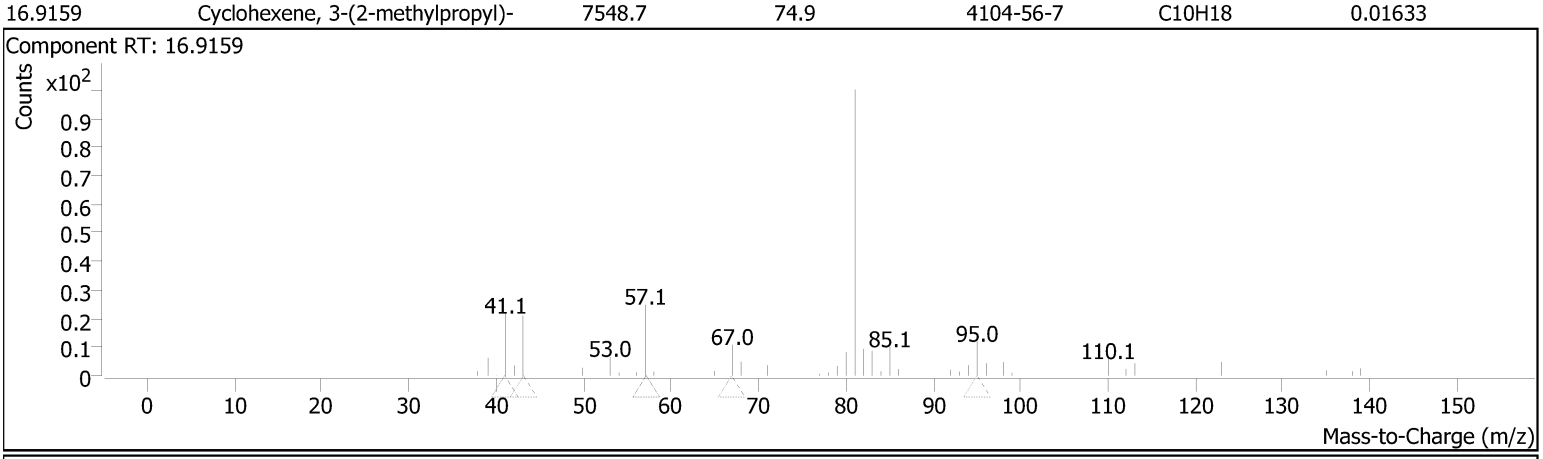



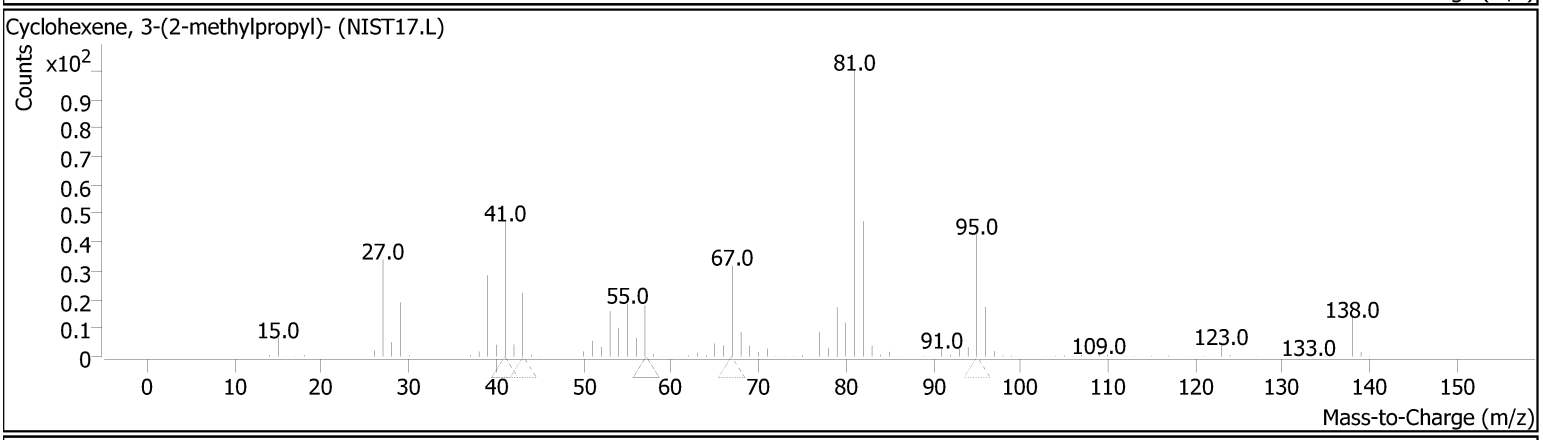



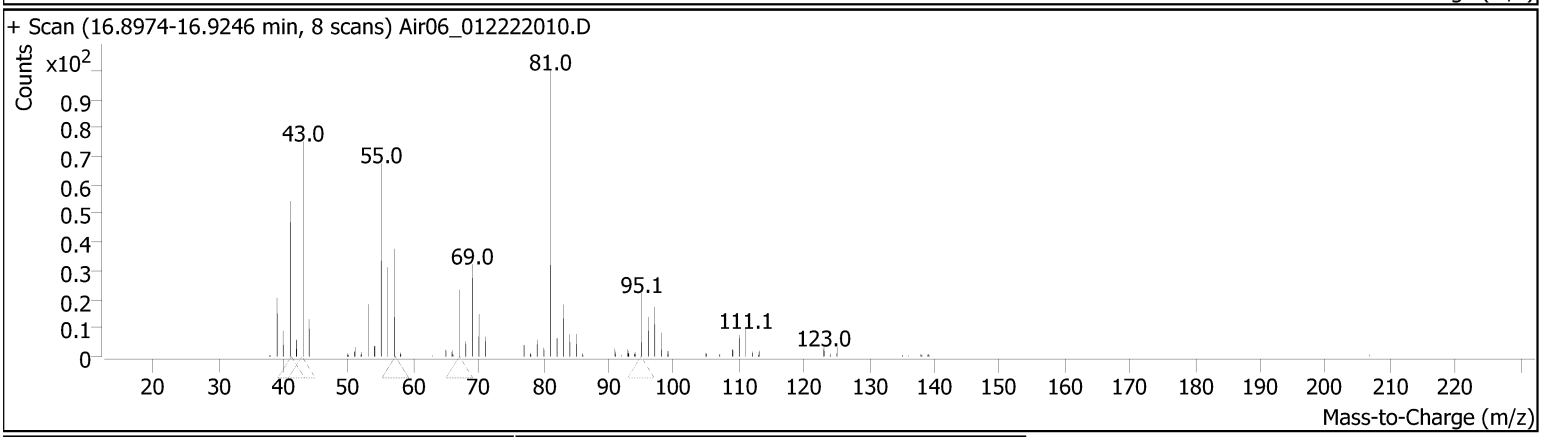



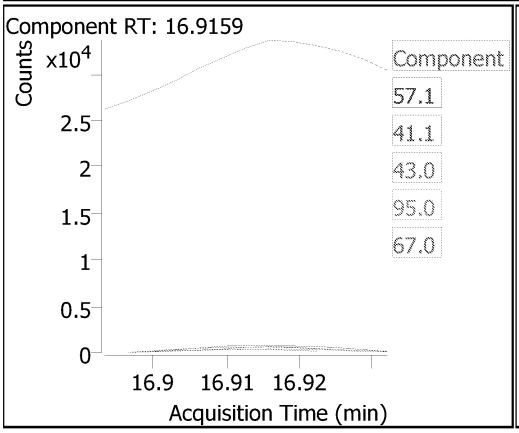



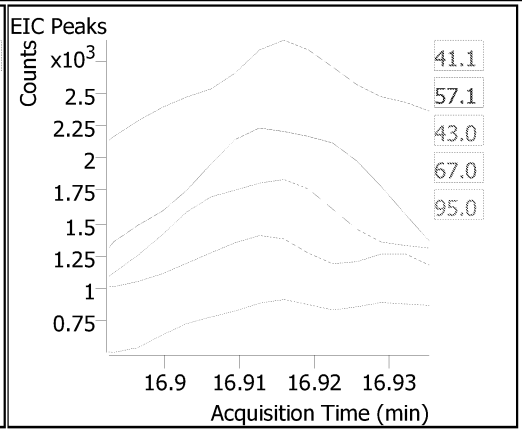
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.9159 | Cyclohexene, 3-(2-methylpropyl)- | 7548.7 | 74.9 | 4104-56-7 | C10H18 | 0.01633 |

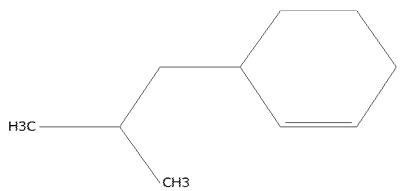


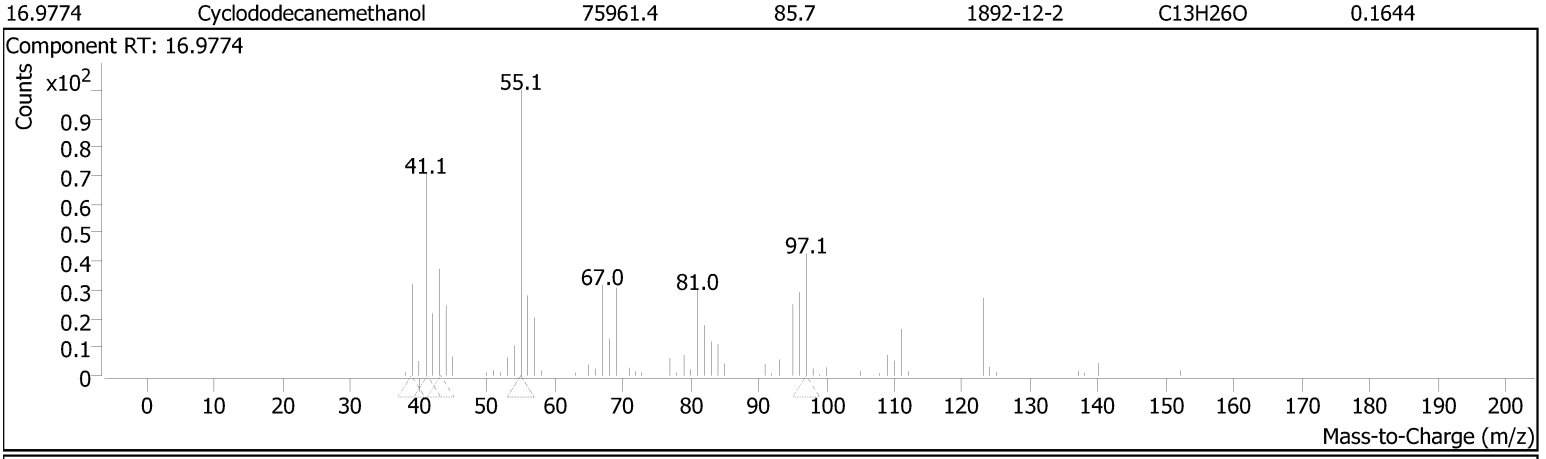



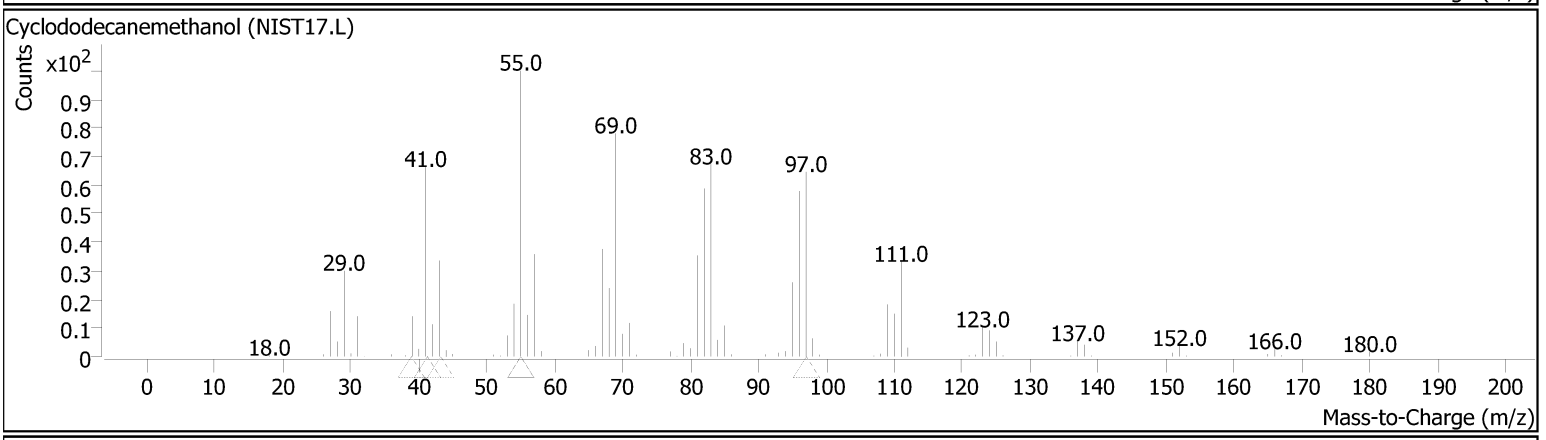



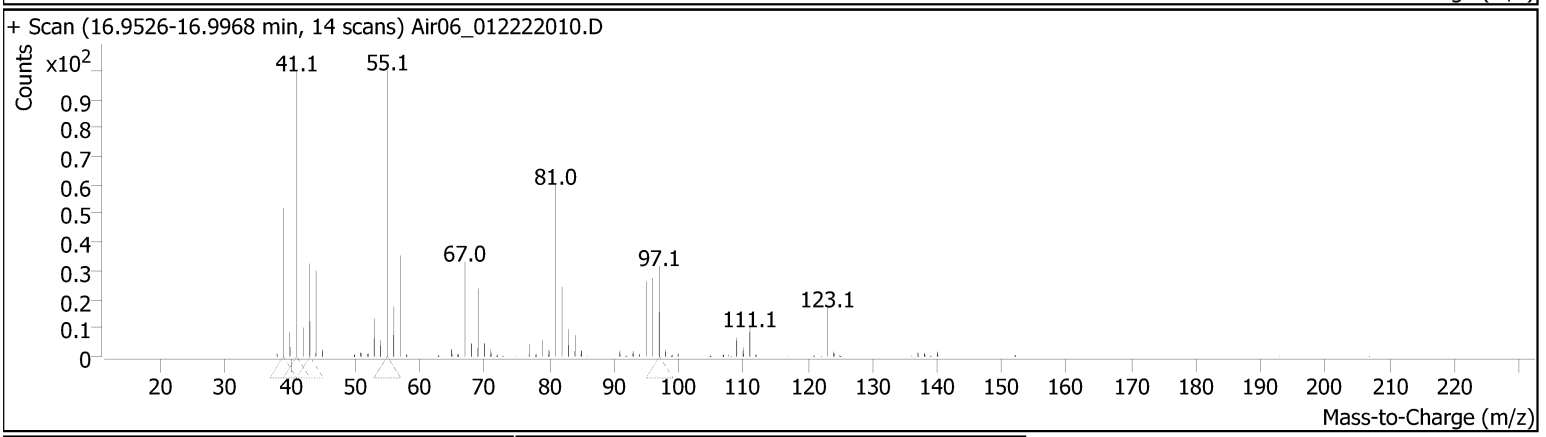



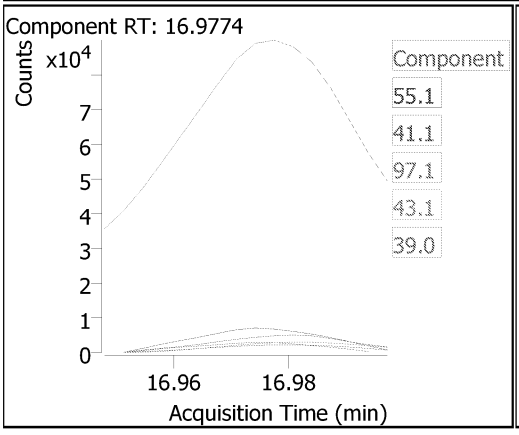



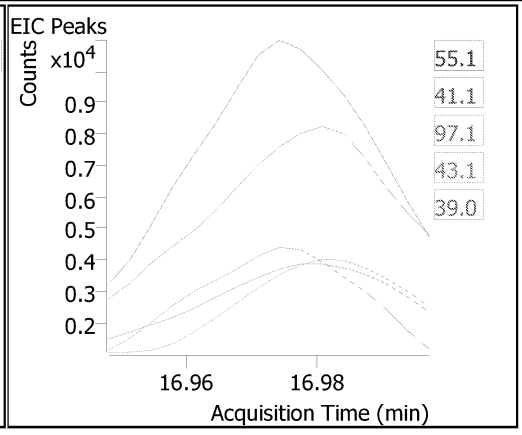
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.9774 | Cyclododecanemethanol | 75961.4 | 85.7 | 1892-12-2 | C13H26O | 0.1644 |

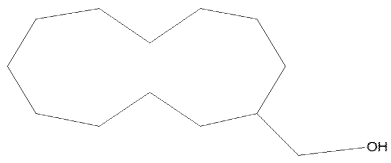


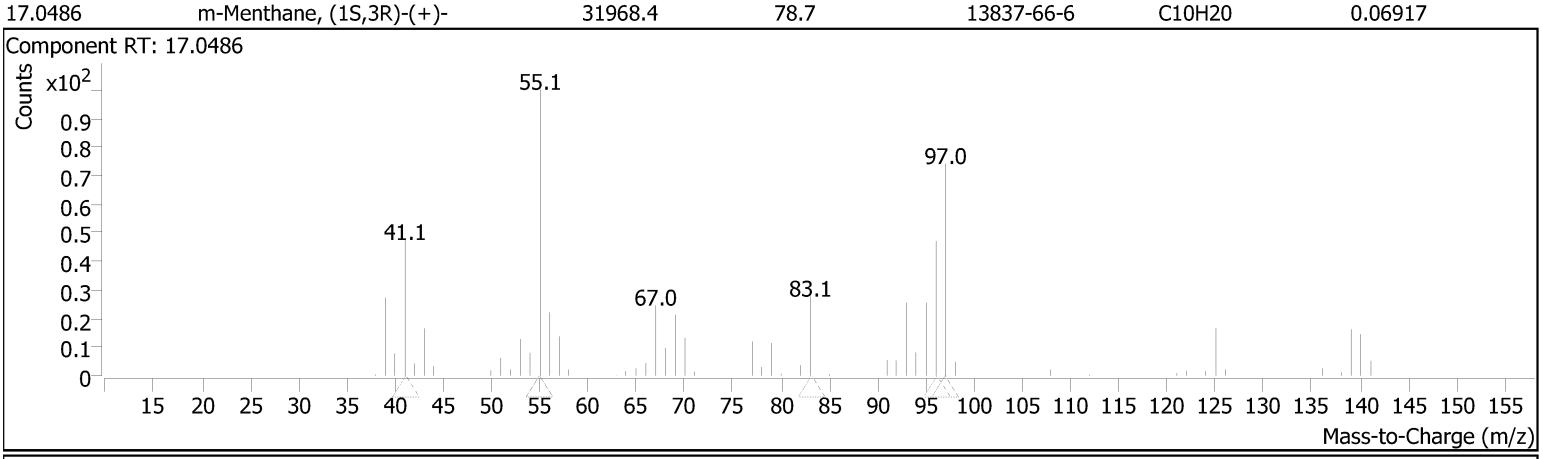



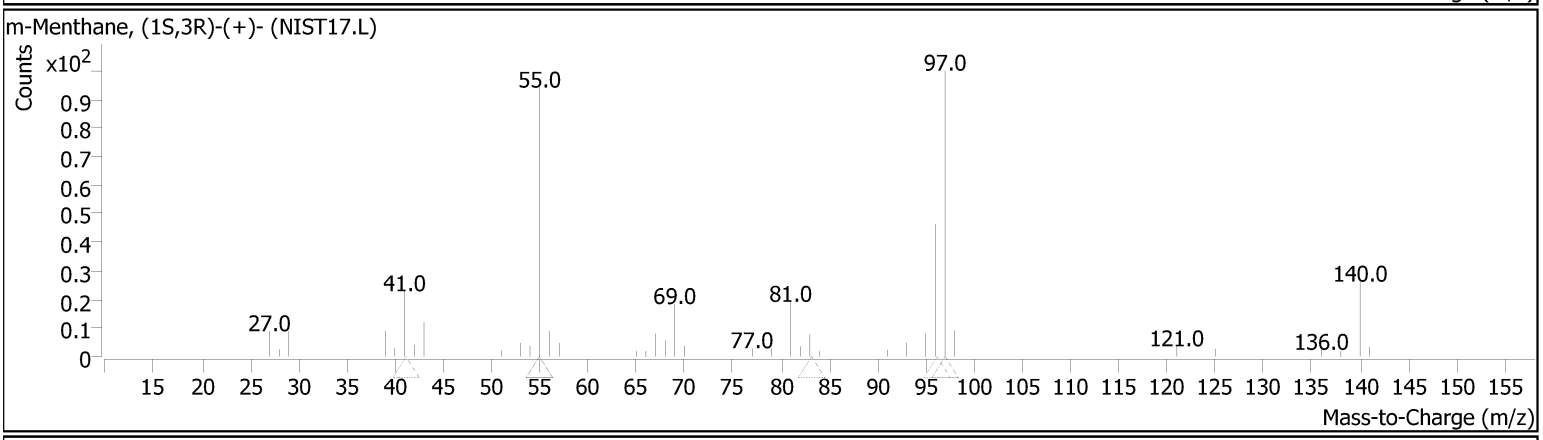



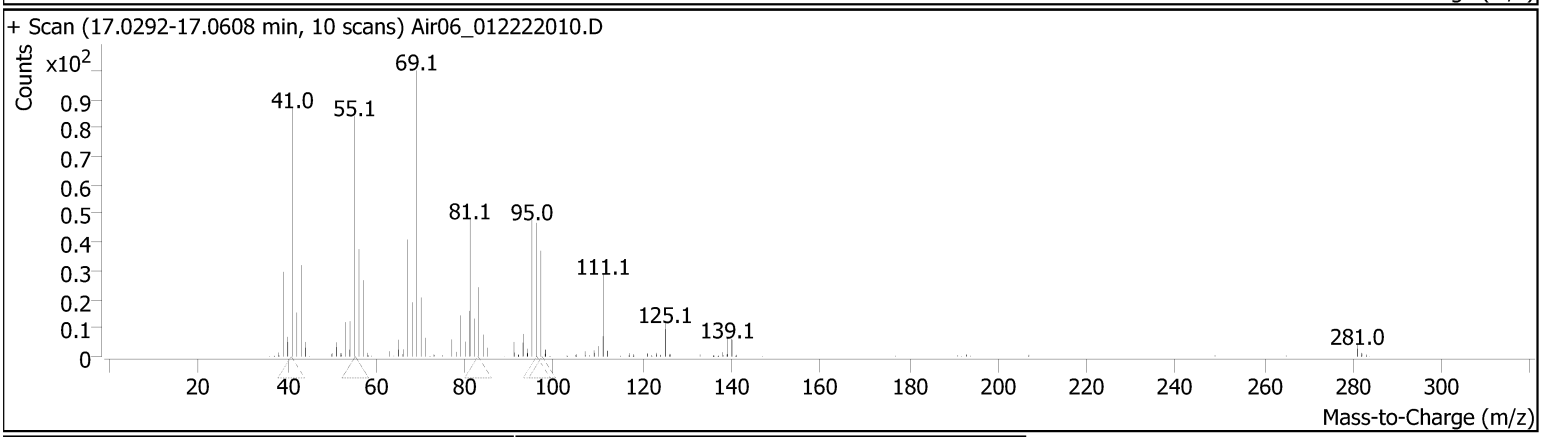



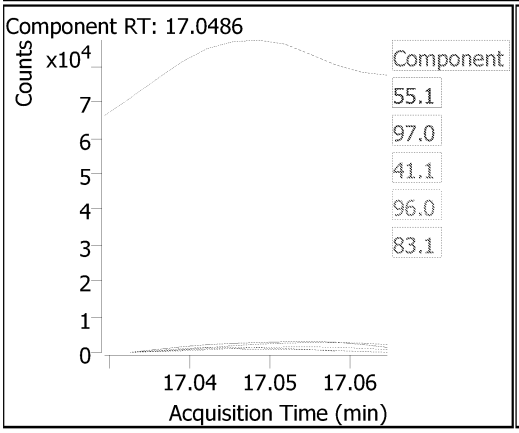



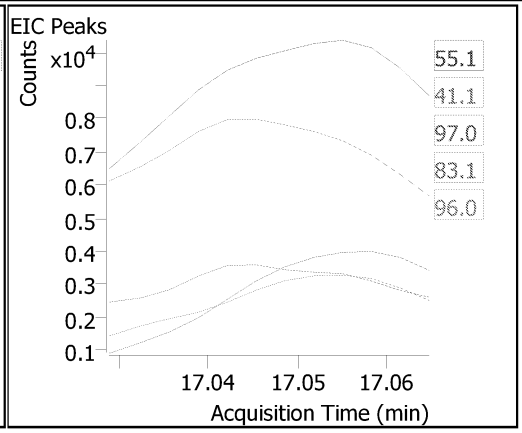
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.0486 | m-Menthane, (1S,3R)-(+)- | 31968.4 | 78.7 | 13837-66-6 | C10H20 | 0.06917 |

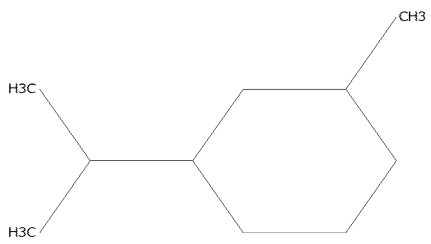


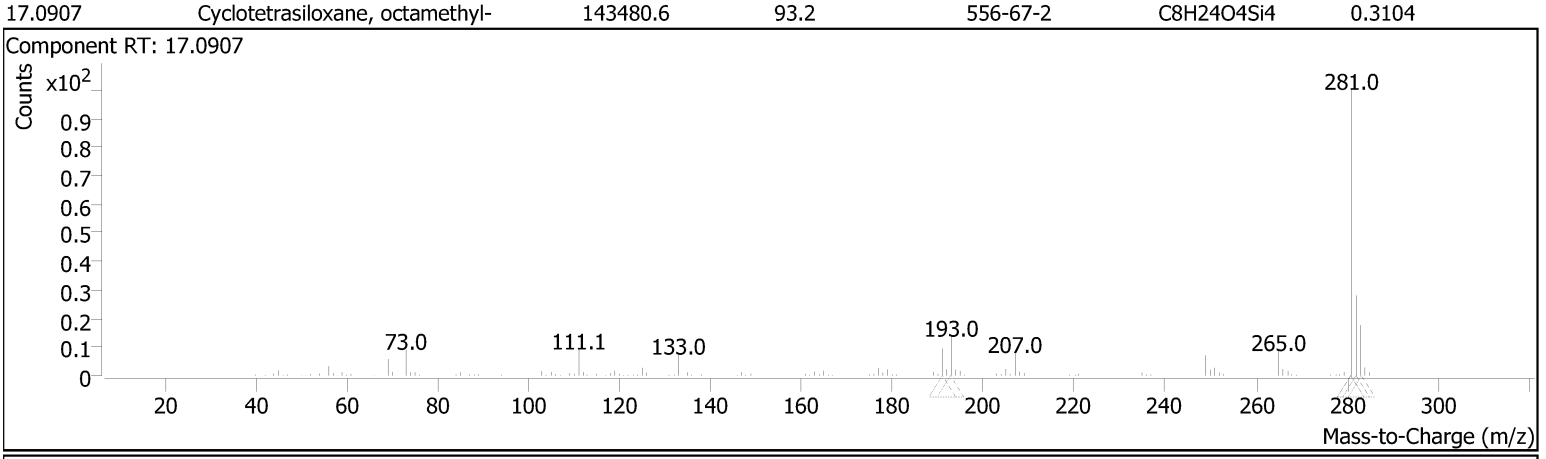



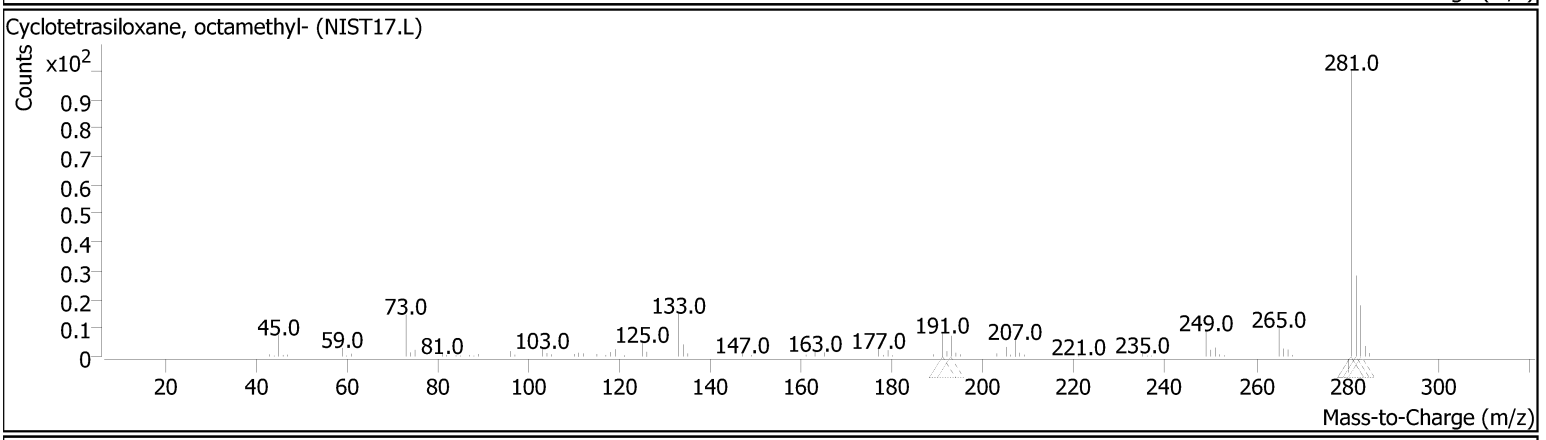



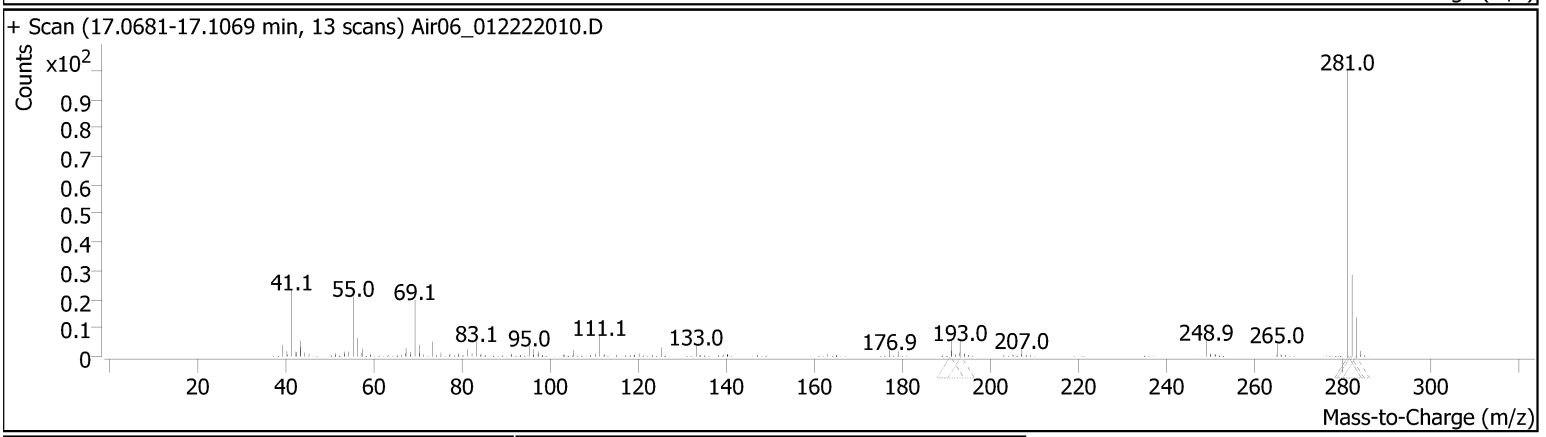



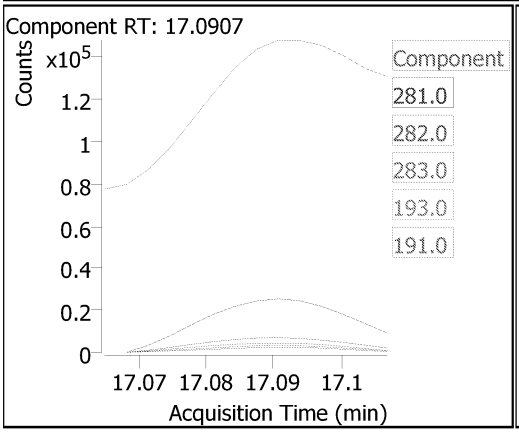



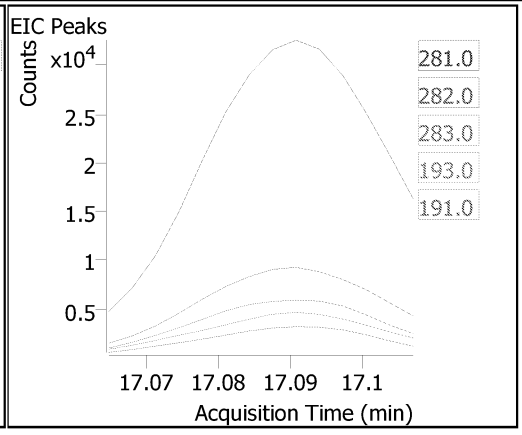
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.0907 | Cyclotetrasiloxane, octamethyl- | 143480.6 | 93.2 | 556-67-2 | C8H24O4Si4 | 0.3104 |

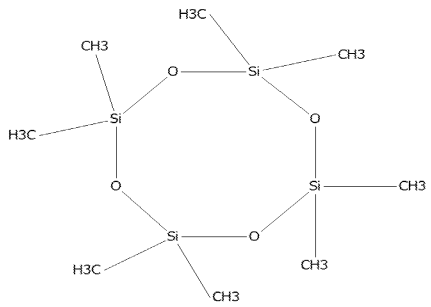


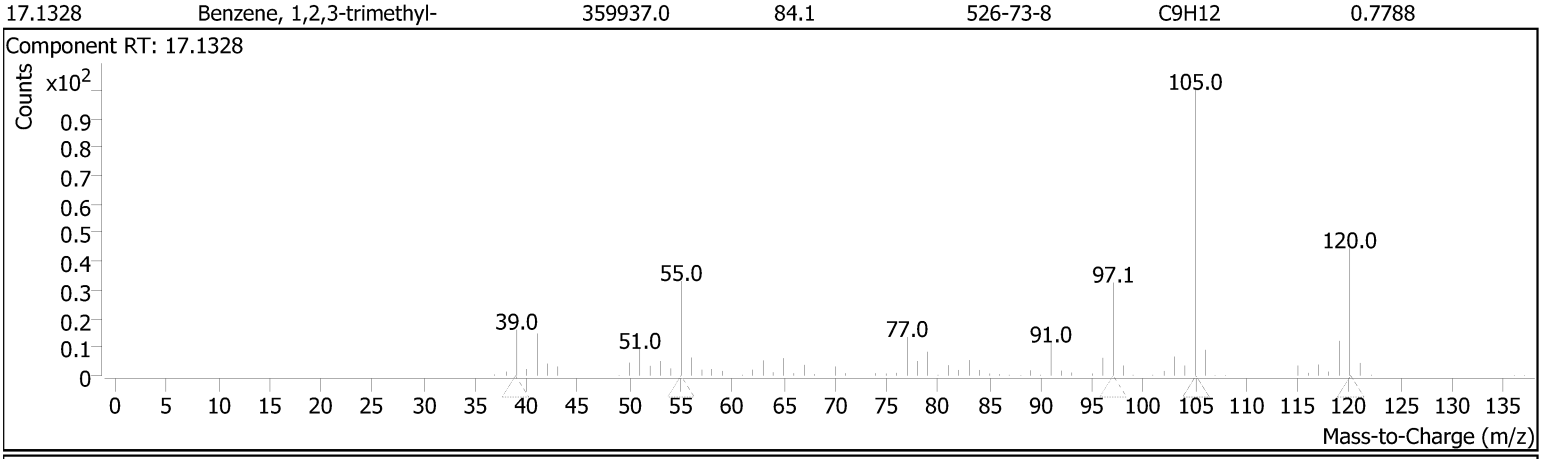



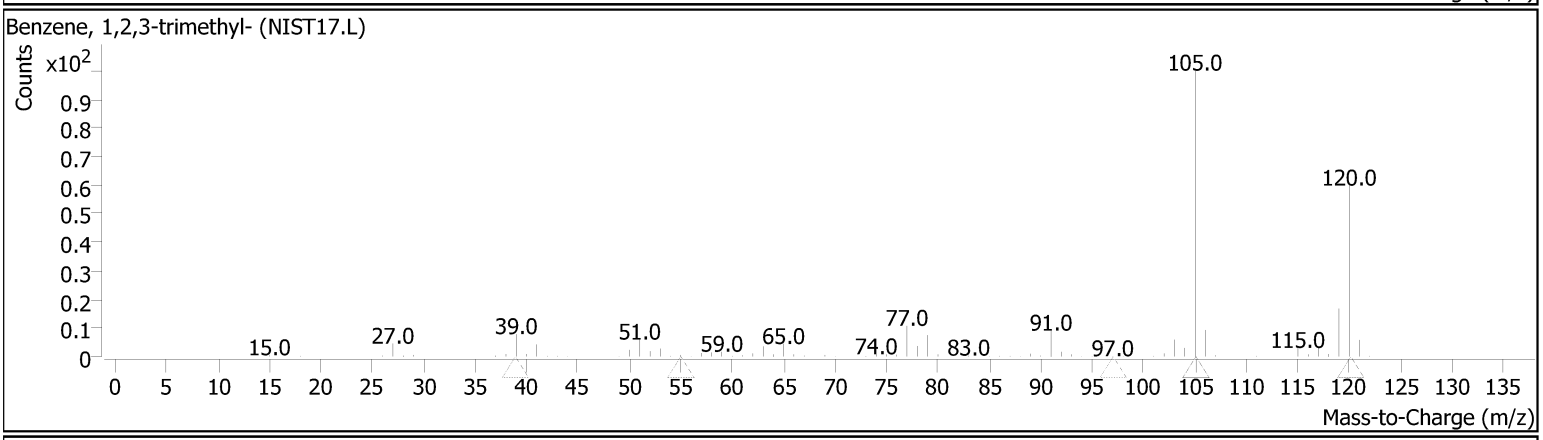



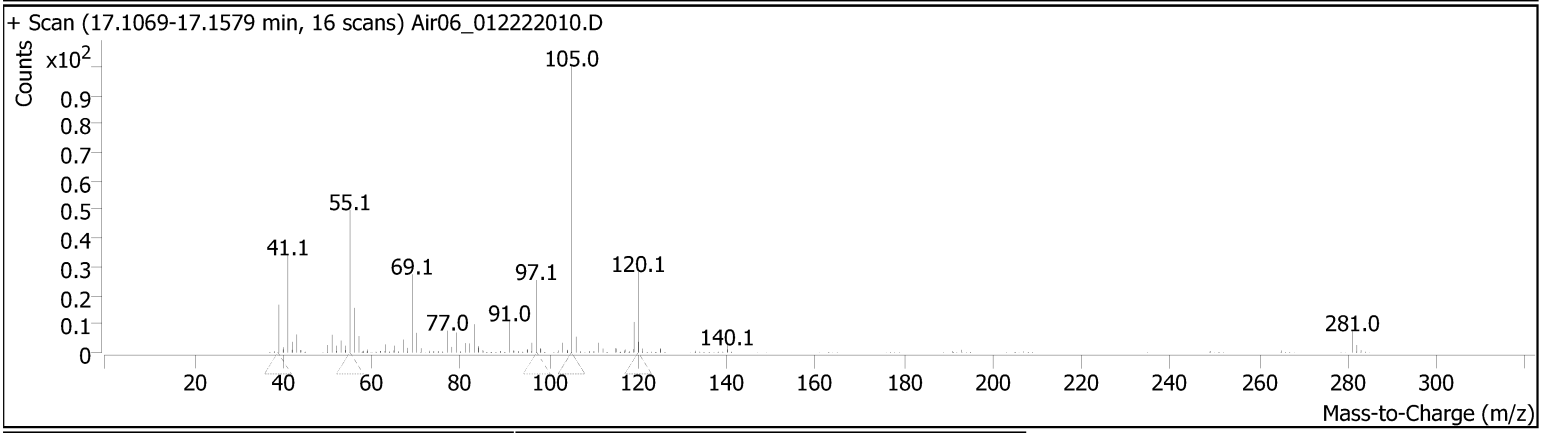



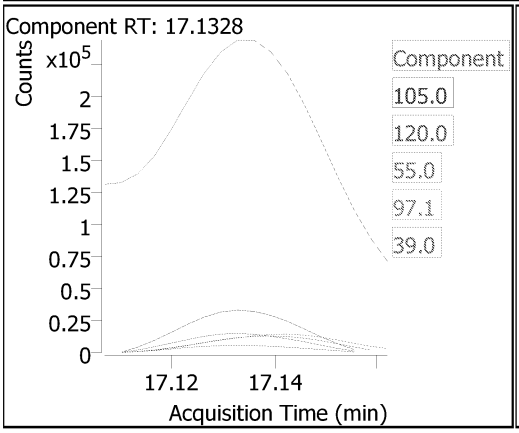



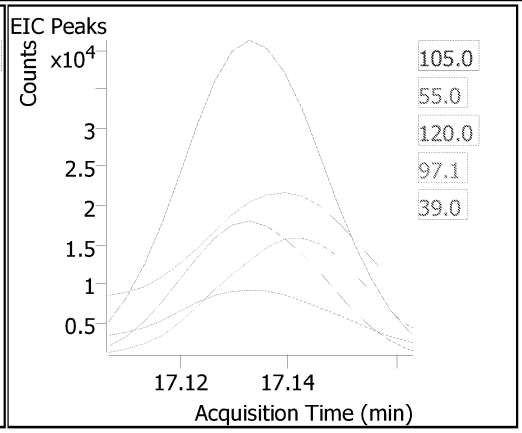
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.1328 | Benzene, 1,2,3-trimethyl- | 359937.0 | 84.1 | 526-73-8 | C9H12 | 0.7788 |

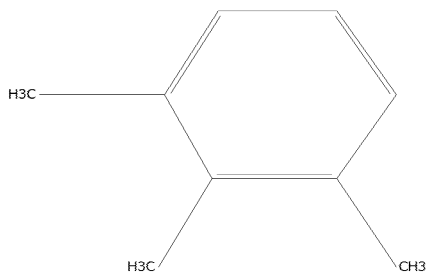


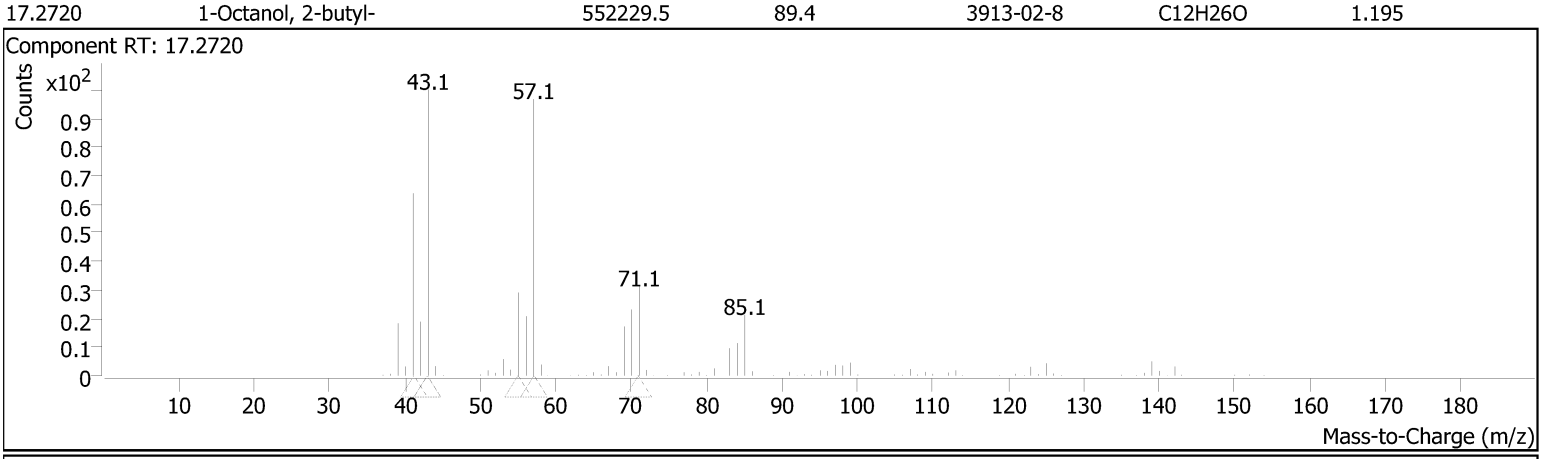



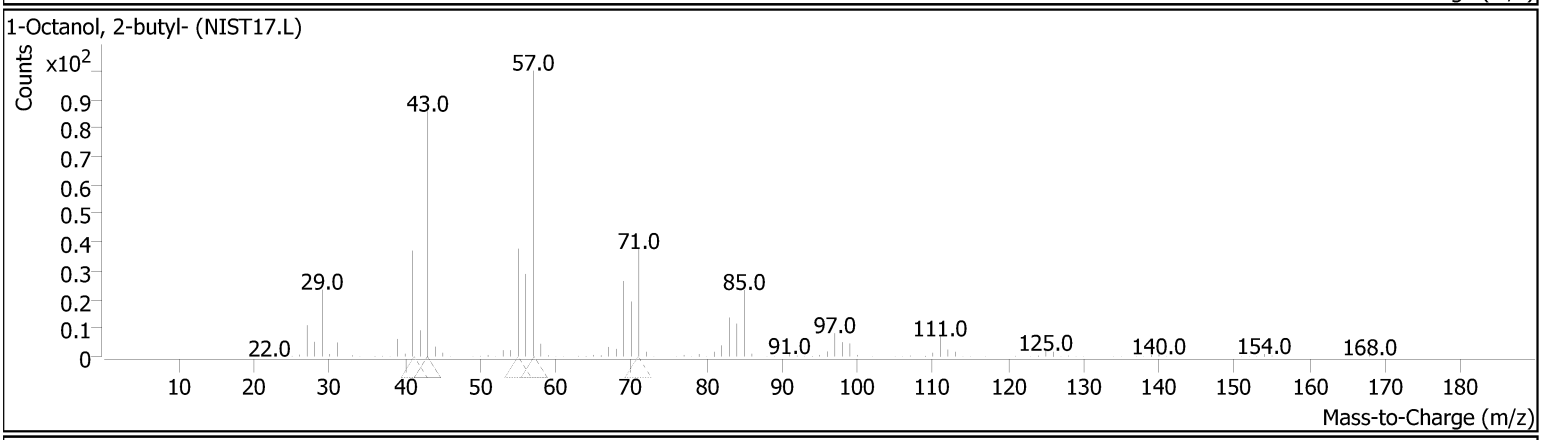



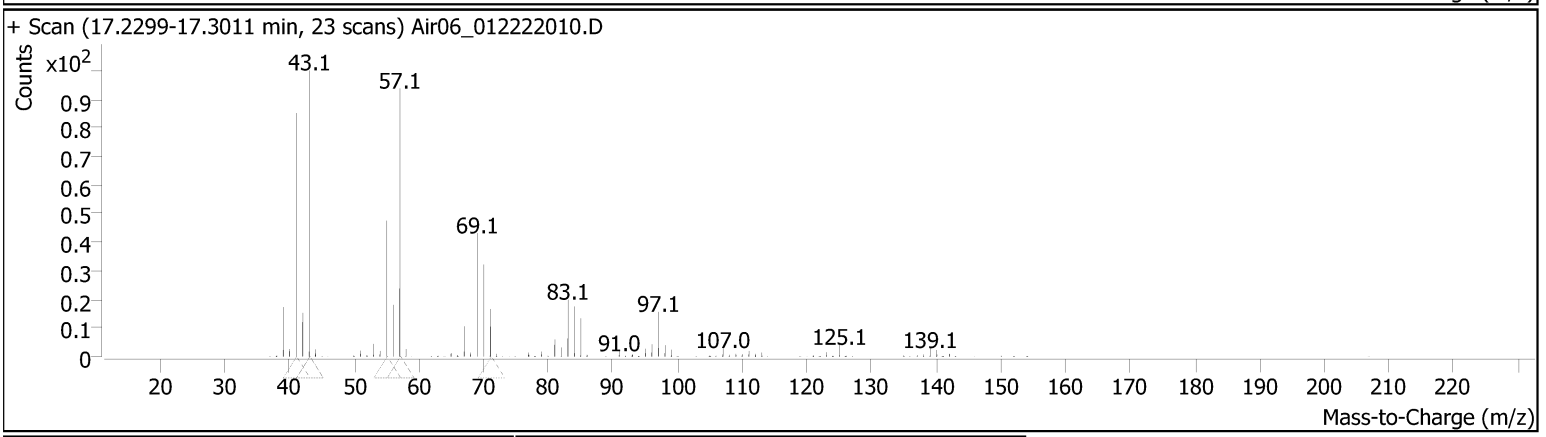



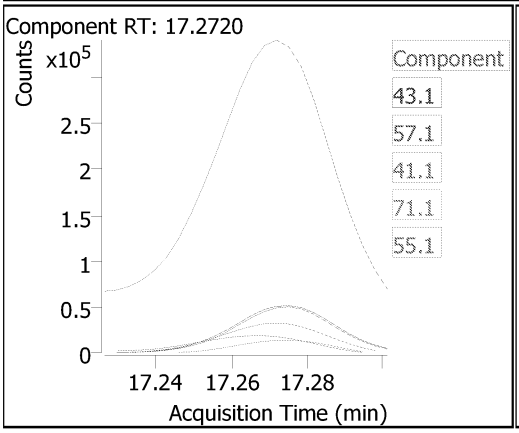



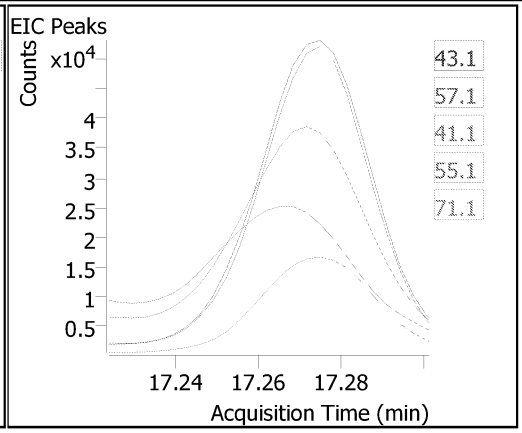
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.2720 | 1-Octanol, 2-butyl- | 552229.5 | 89.4 | 3913-02-8 | C12H26O | 1.195 |

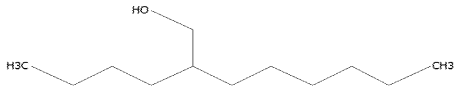


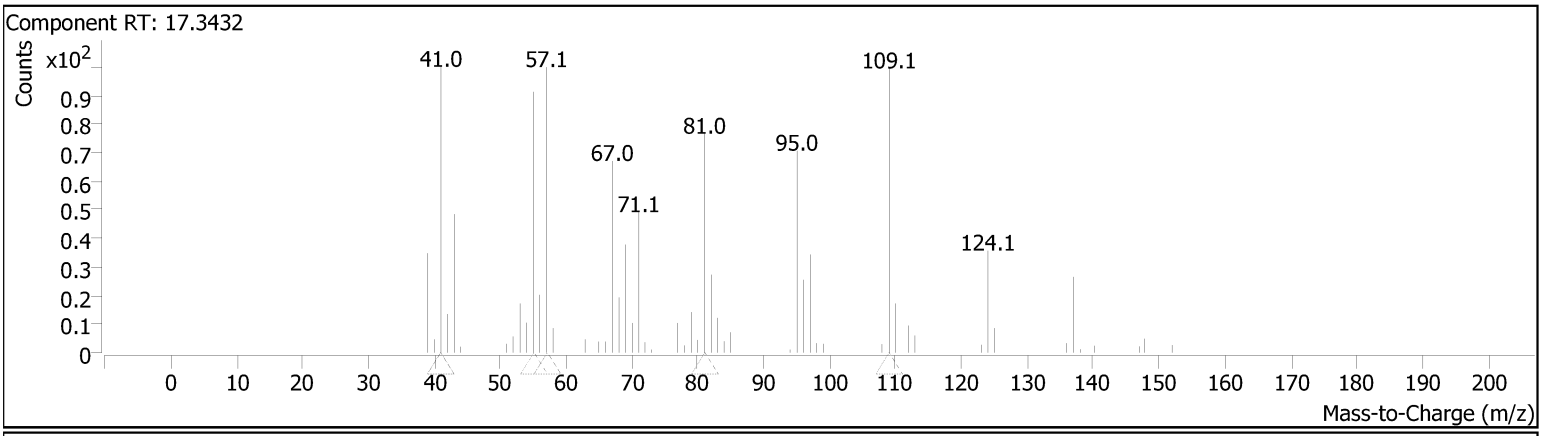



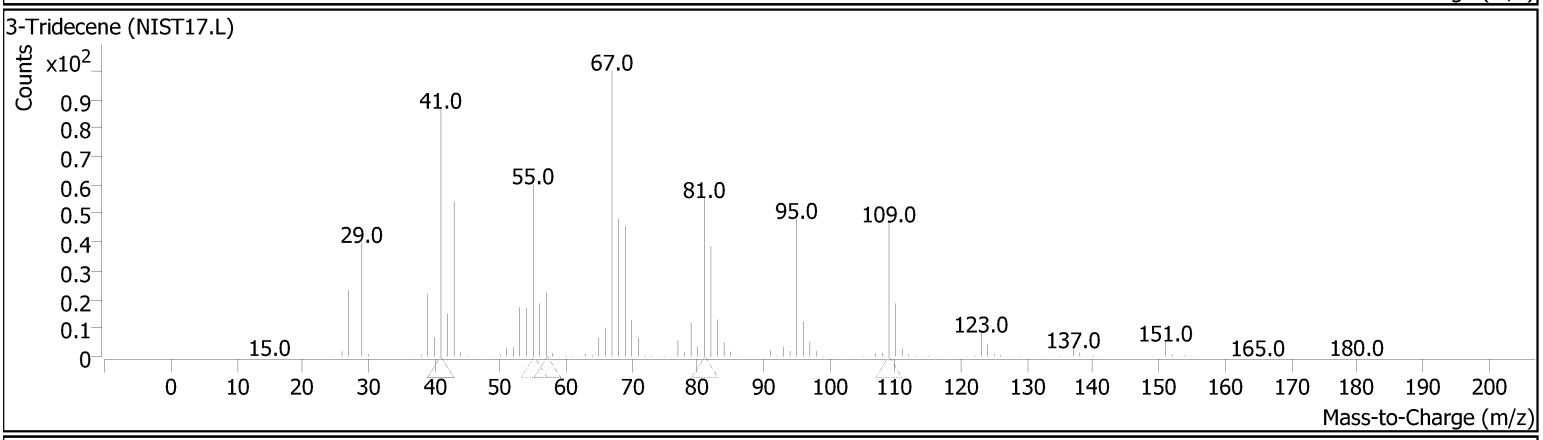



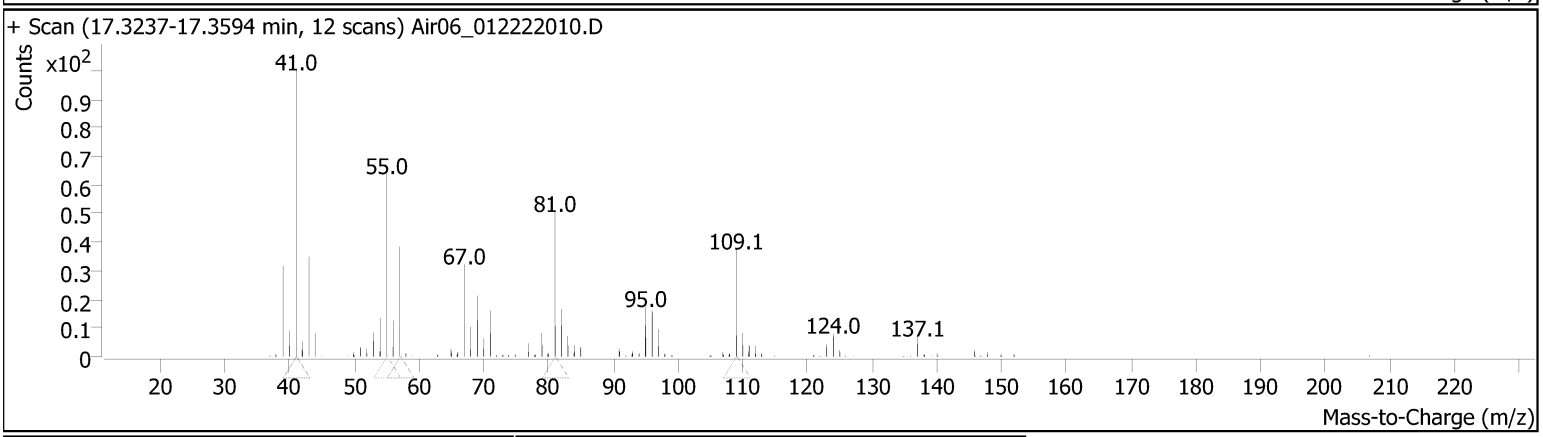



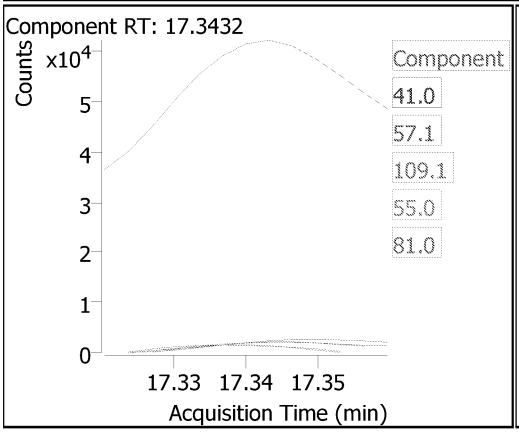



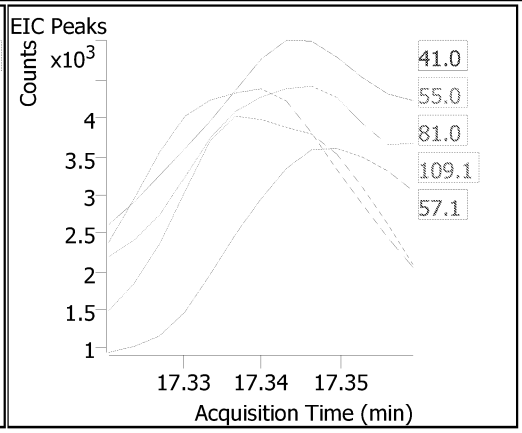
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.3432 | 3-Tridecene | 25689.2 | 85.2 | 60186-78-9 | C13H24 | 0.05558 |

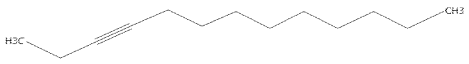


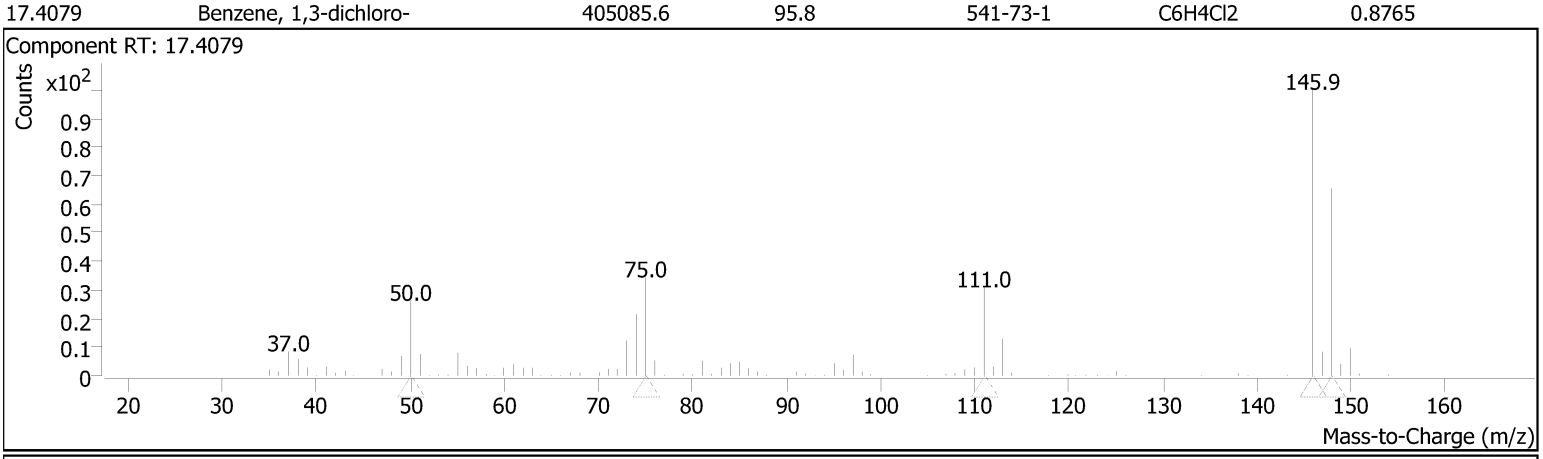



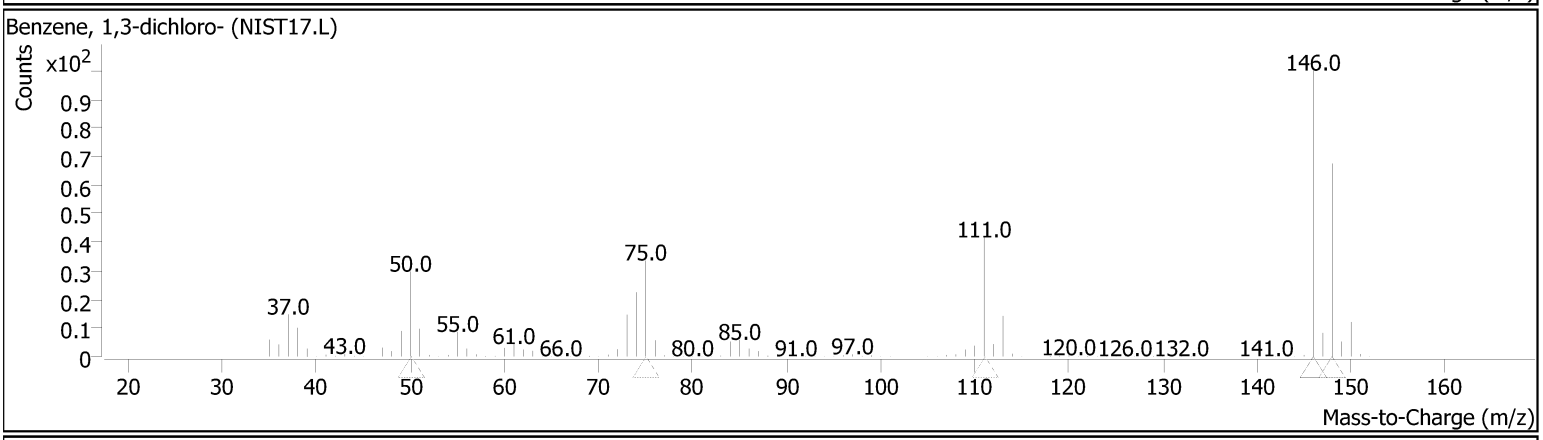



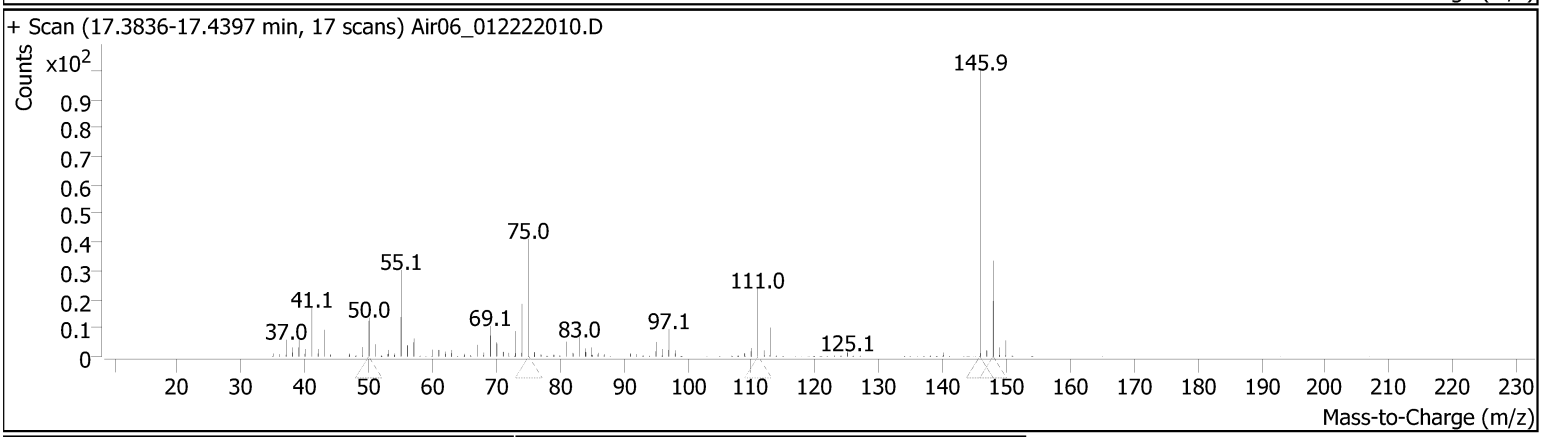



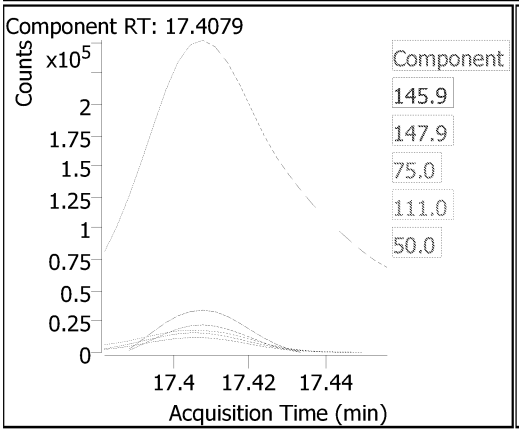



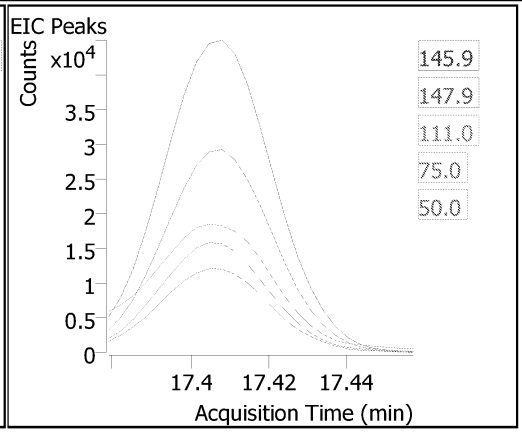
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4079 | Benzene, 1,3-dichloro- | 405085.6 | 95.8 | 541-73-1 | C6H4Cl2 | 0.8765 |

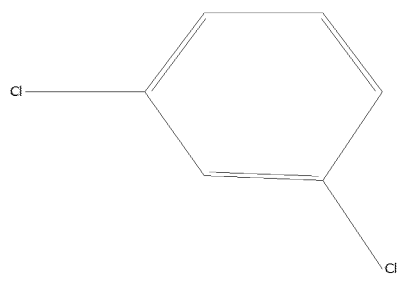


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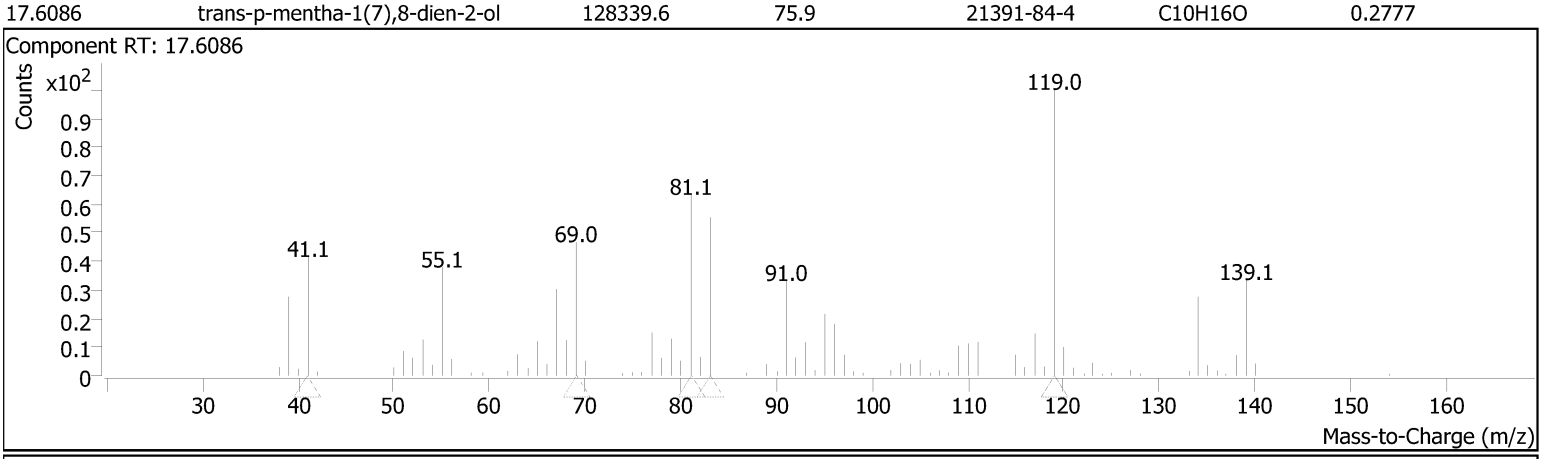
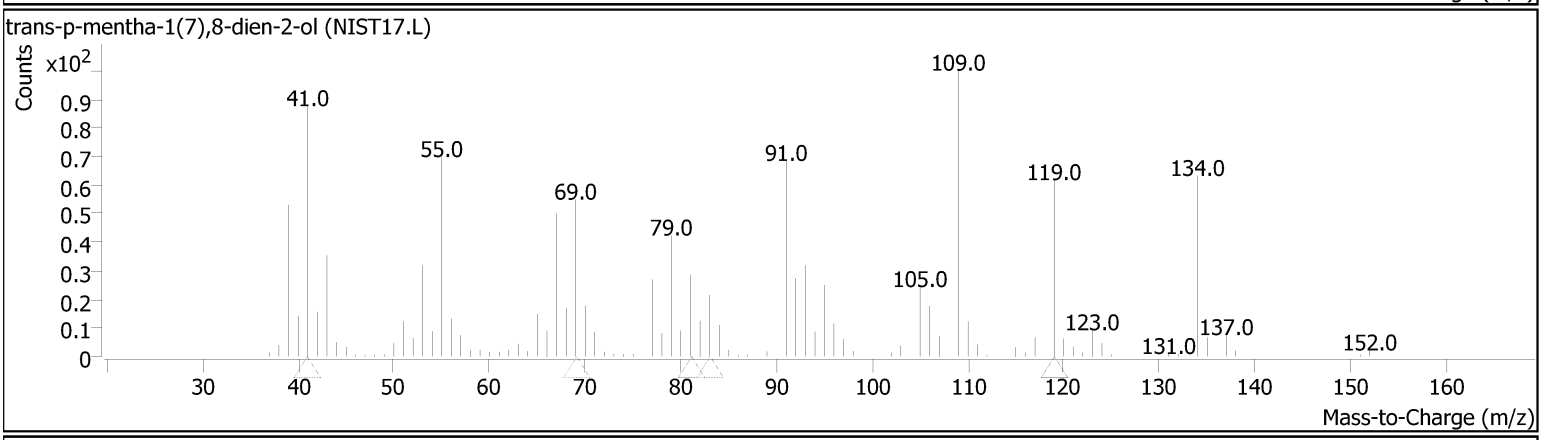
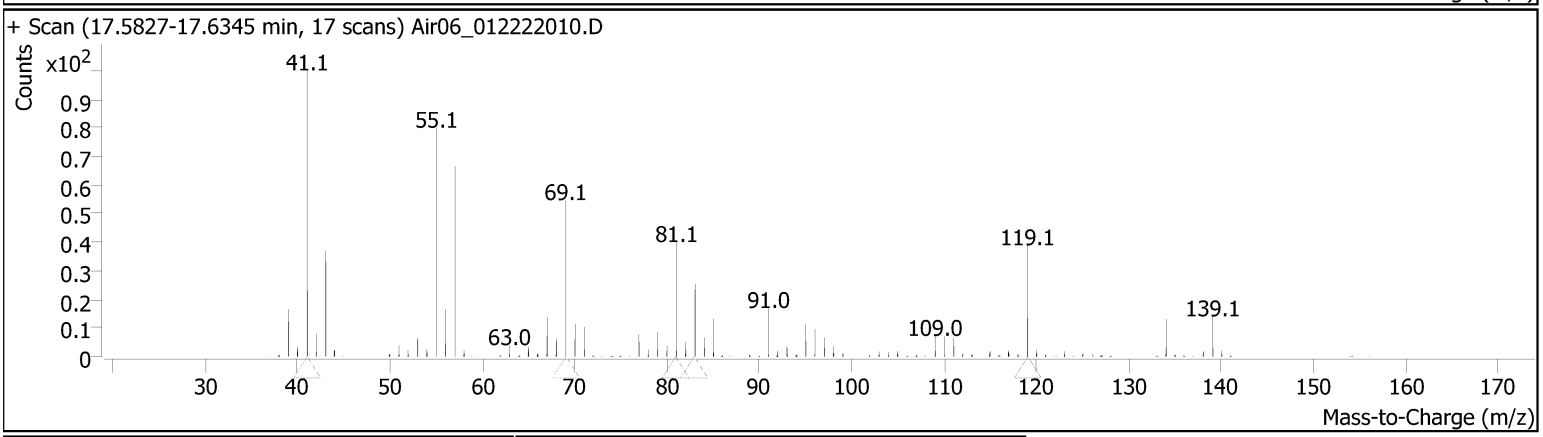
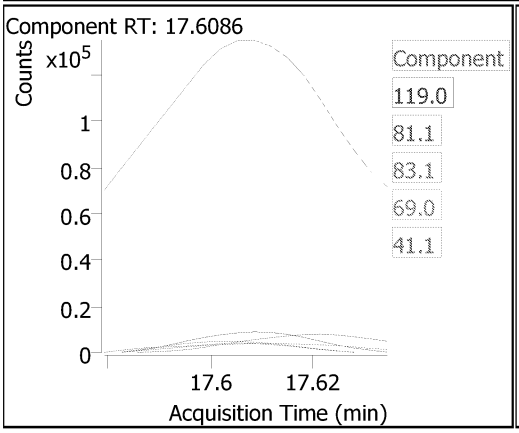
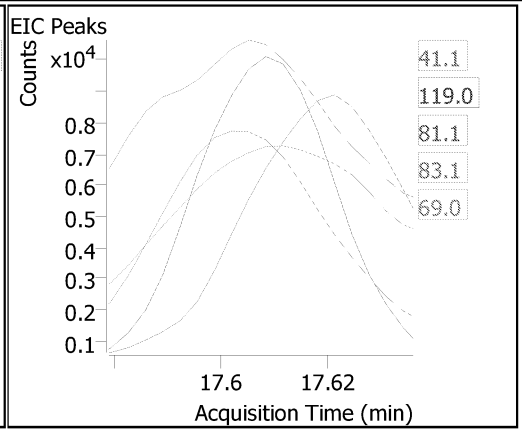
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6086 | trans-p-mentha-1(7),8-dien-2-ol | 128339.6 | 75.9 | 21391-84-4 | C10H16O | 0.2777 |

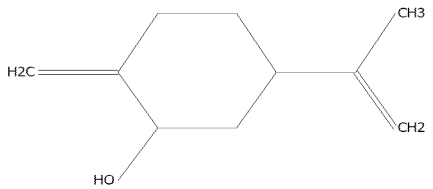


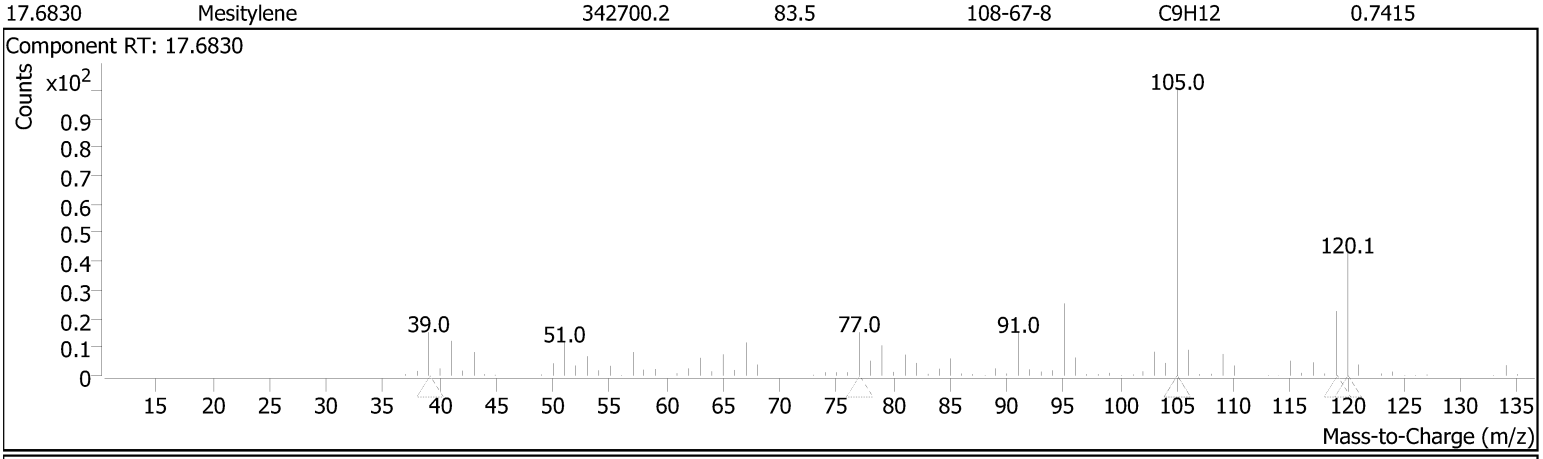



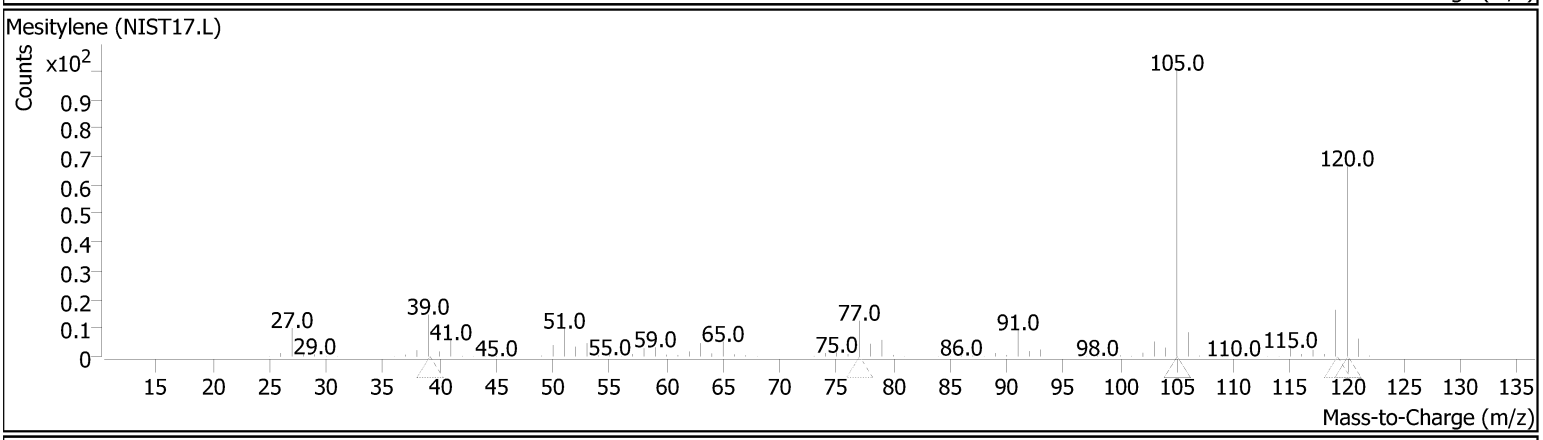



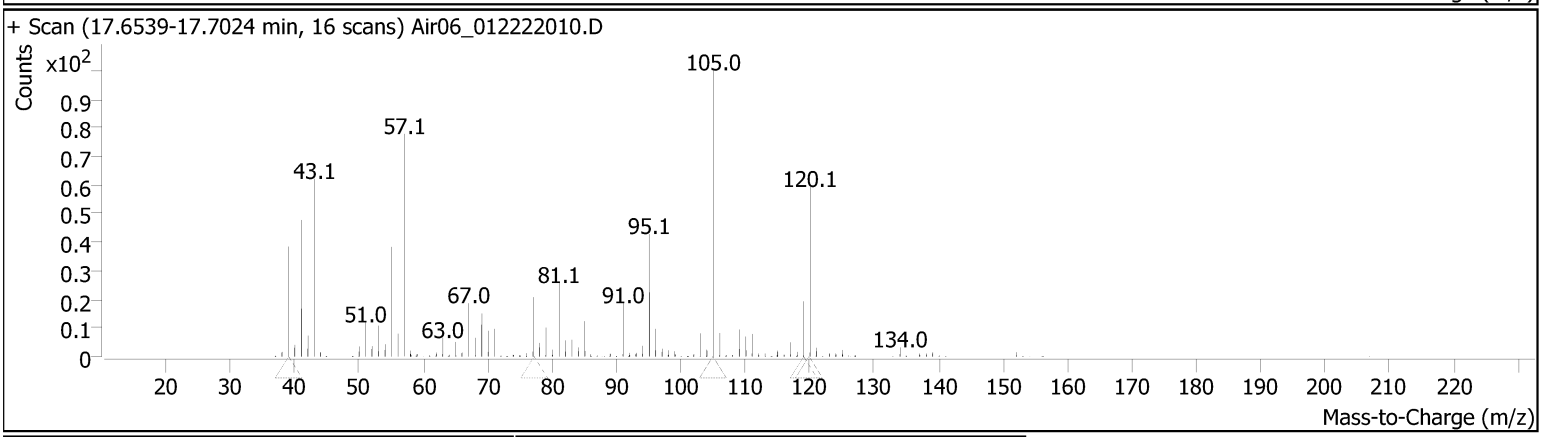



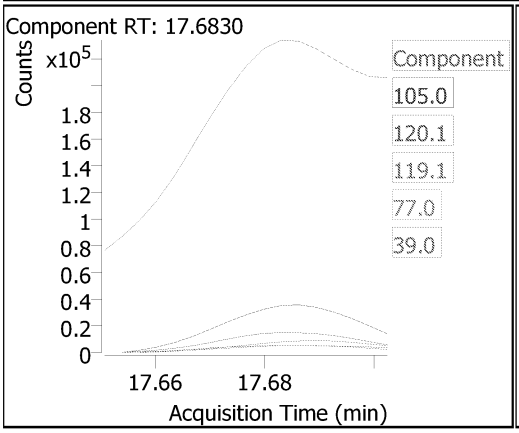



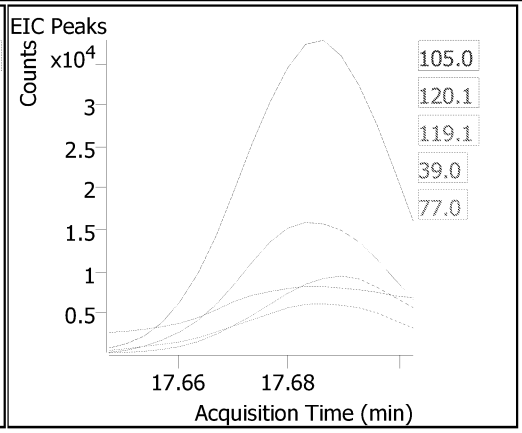
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6830 | Mesitylene | 342700.2 | 83.5 | 108-67-8 | C9H12 | 0.7415 |

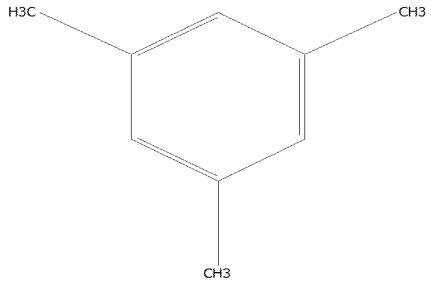


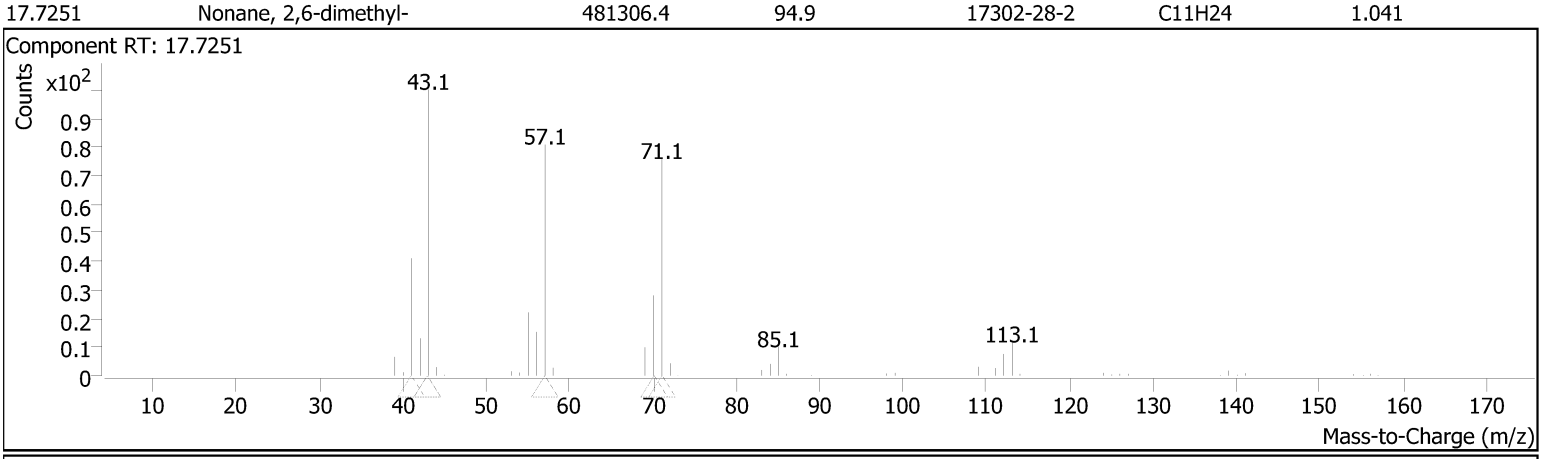



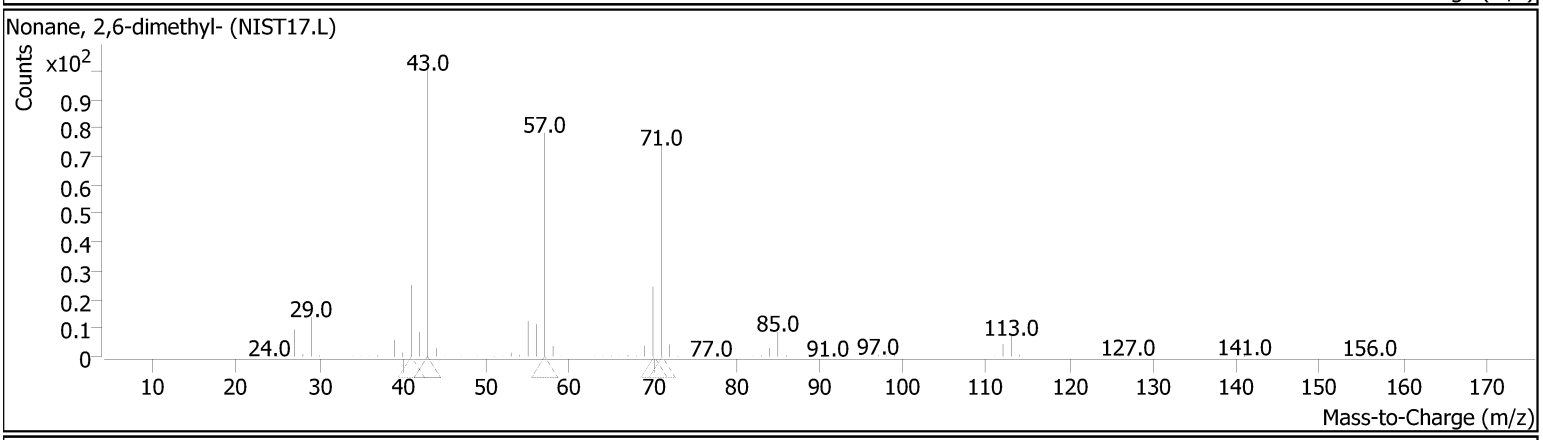



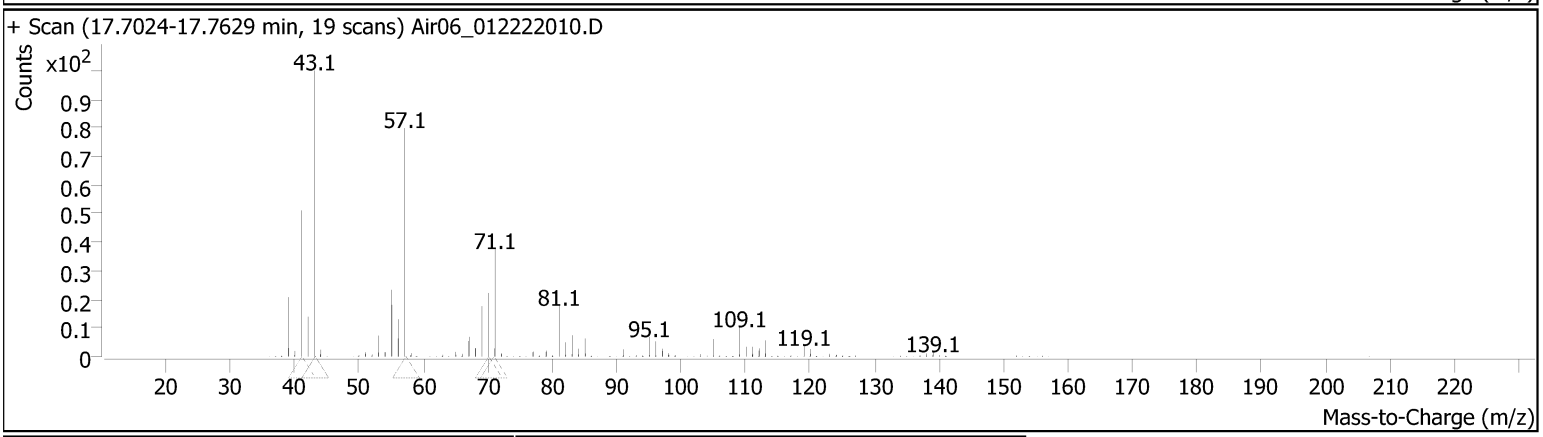



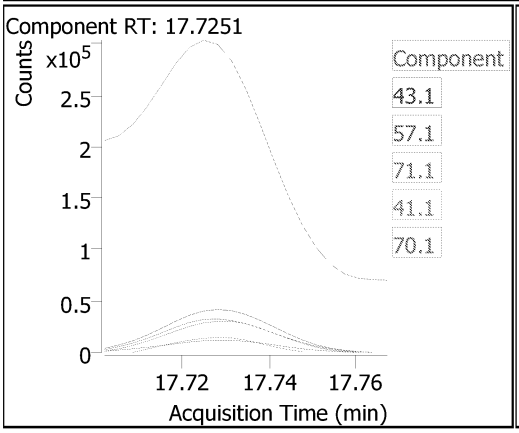



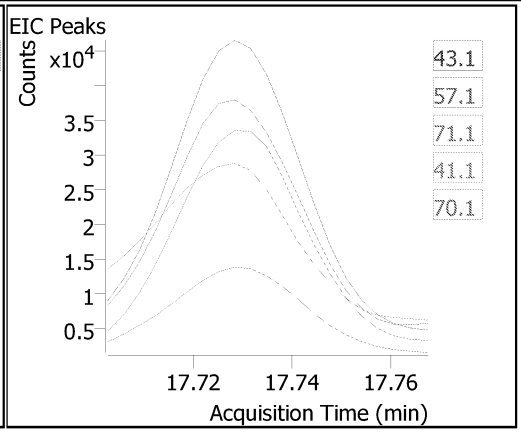
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.7251 | Nonane, 2,6-dimethyl- | 481306.4 | 94.9 | 17302-28-2 | C11H24 | 1.041 |

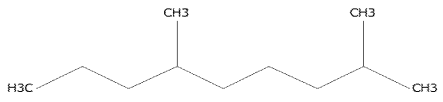


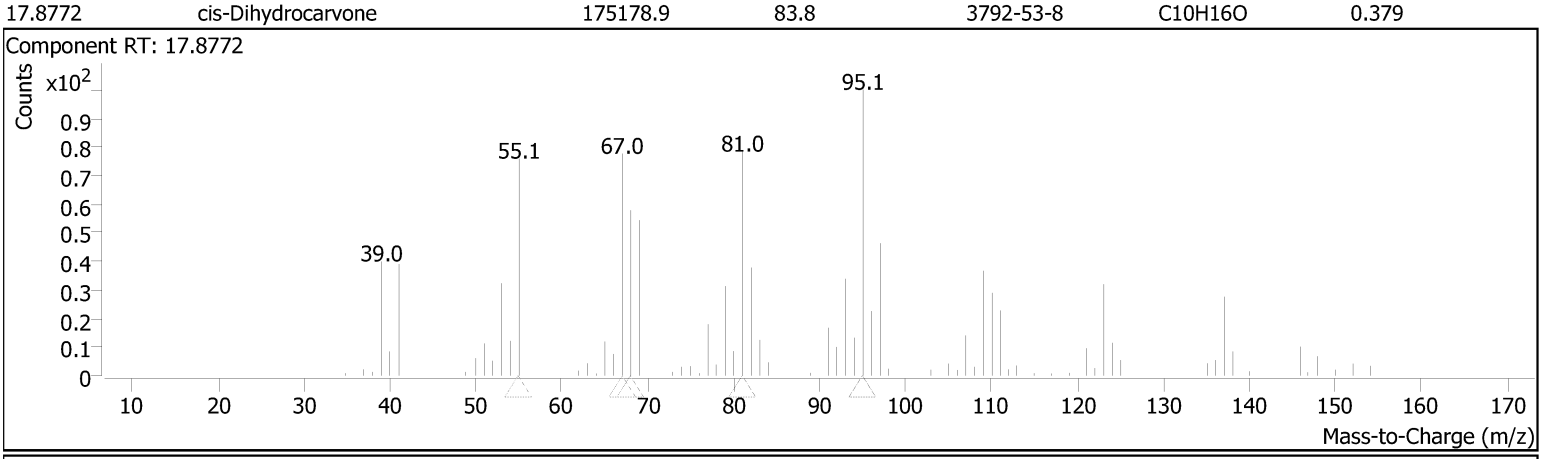



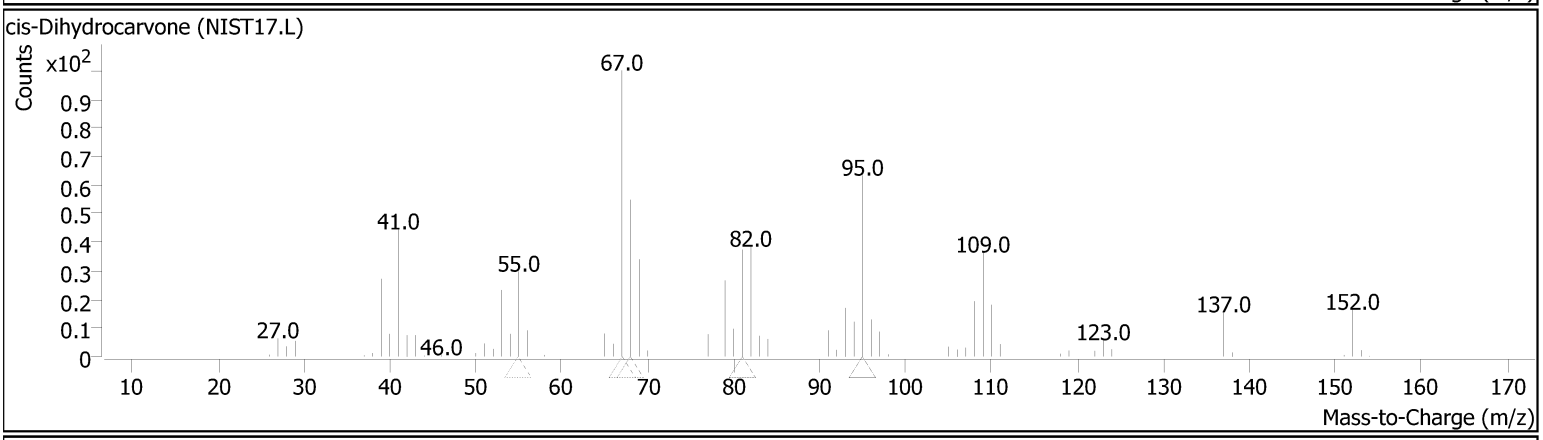



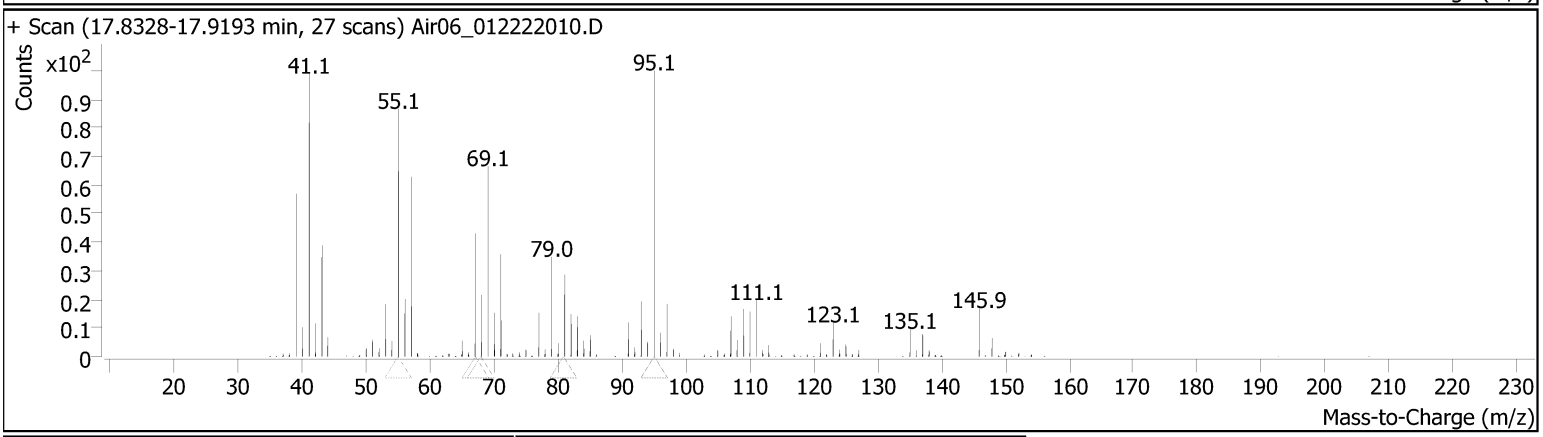



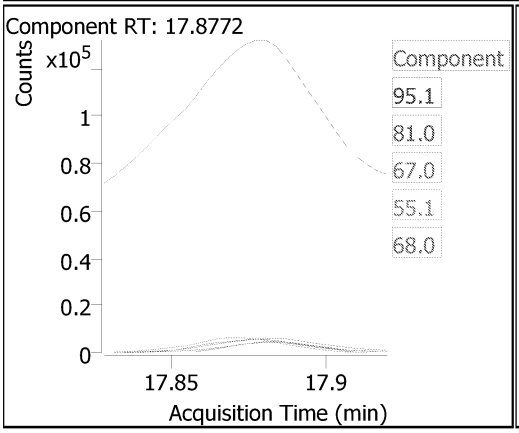



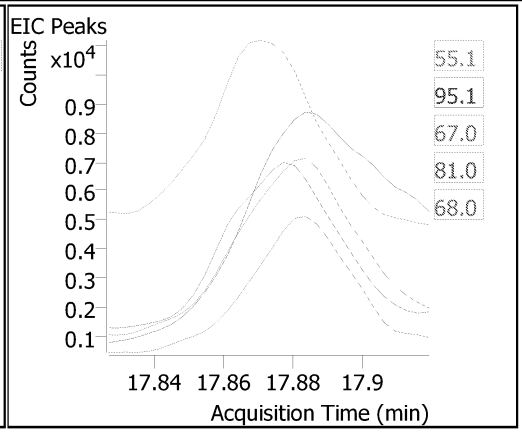
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.8772 | cis-Dihydrocarvone | 175178.9 | 83.8 | 3792-53-8 | C10H16O | 0.379 |

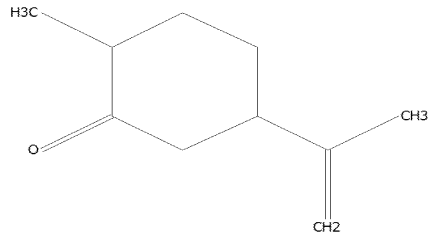


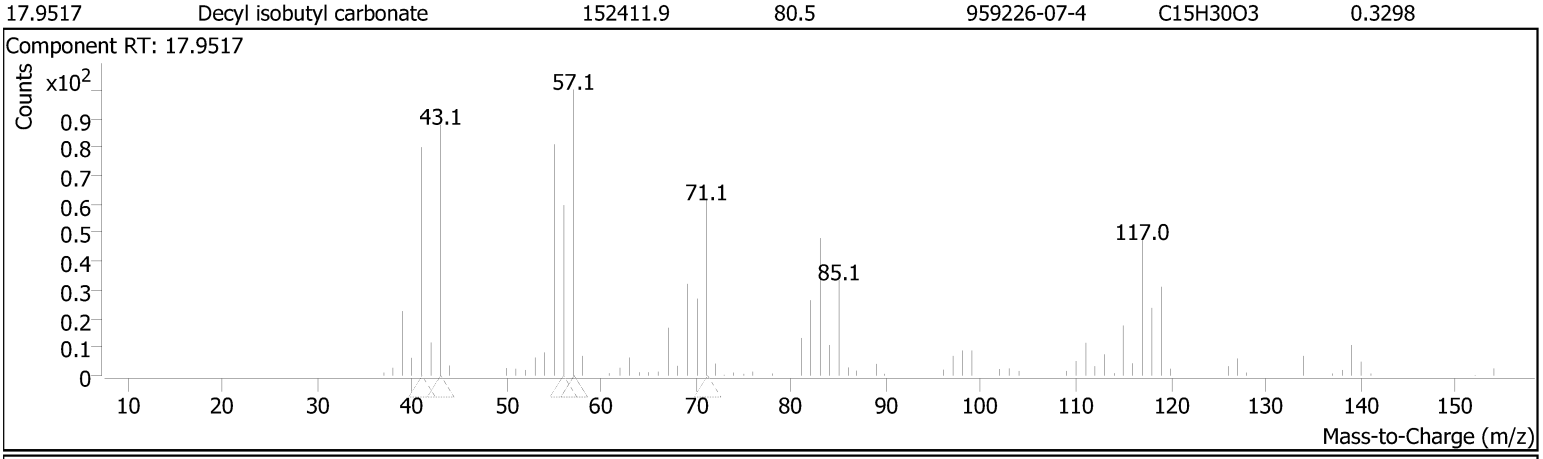



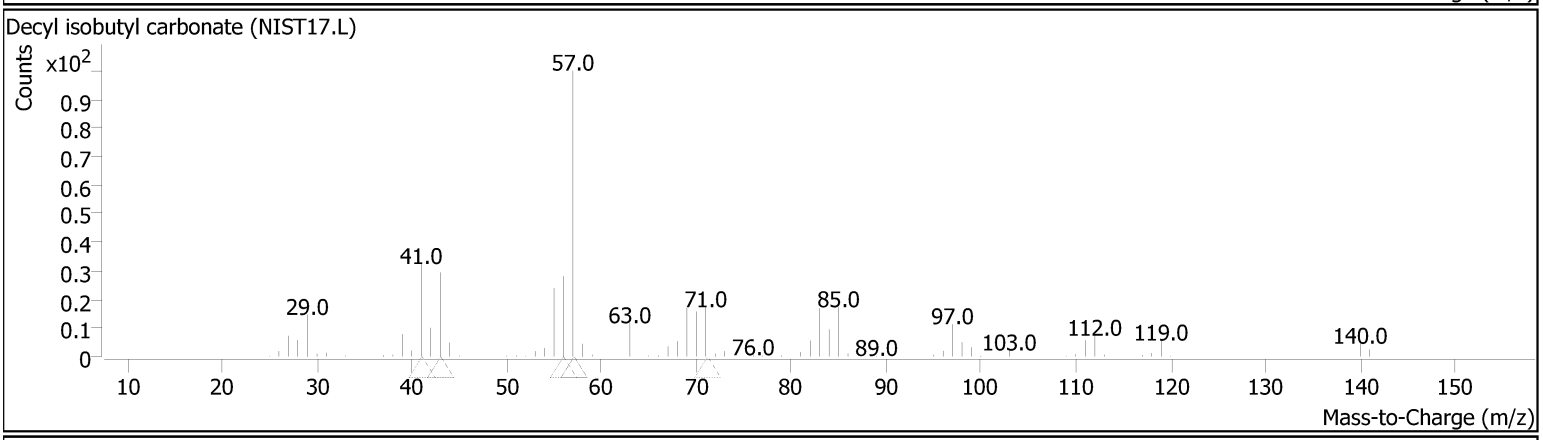



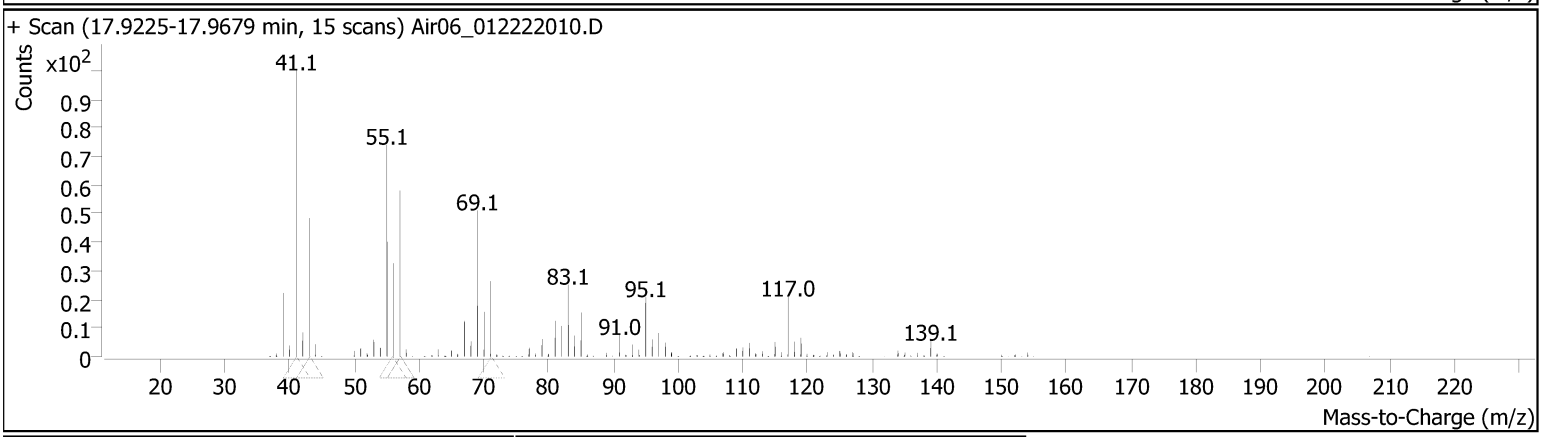



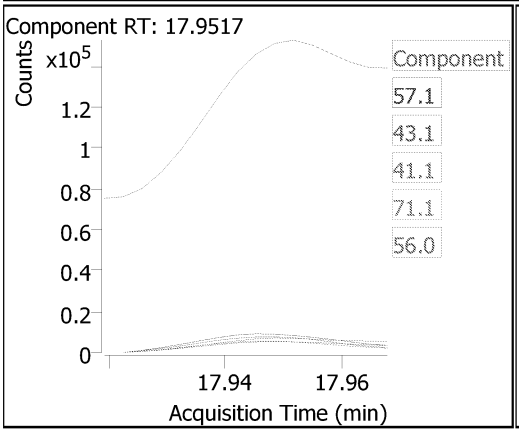



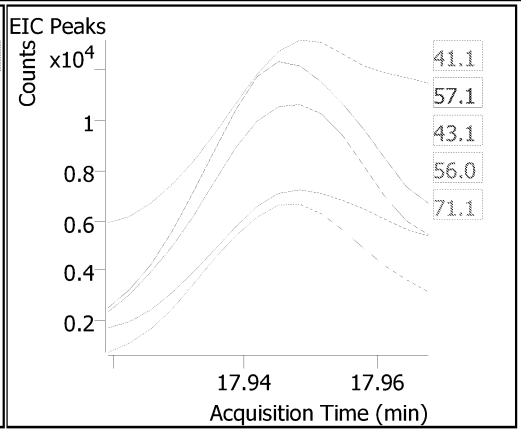
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.9517 | Decyl isobutyl carbonate | 152411.9 | 80.5 | 959226-07-4 | C15H30O3 | 0.3298 |

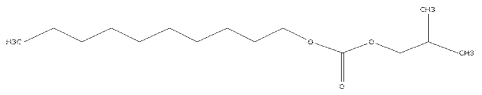


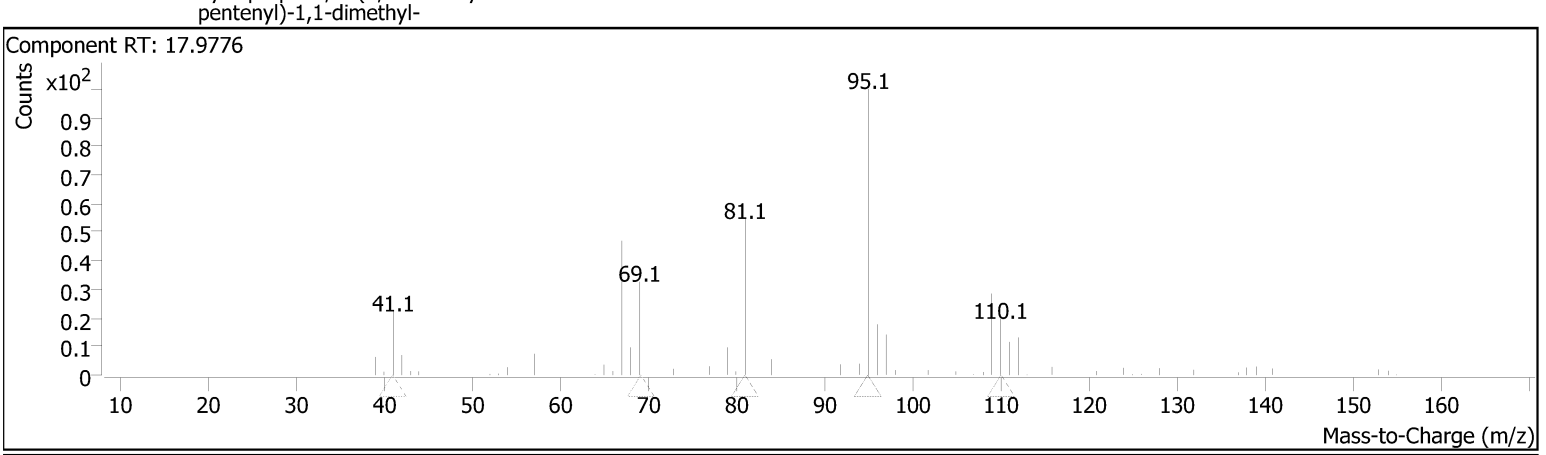



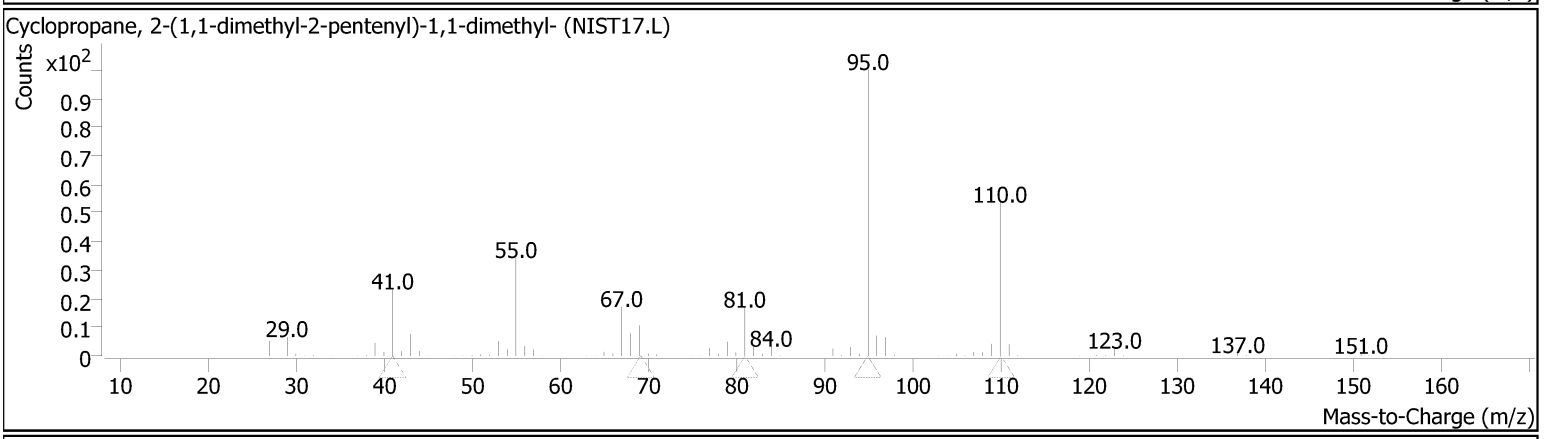



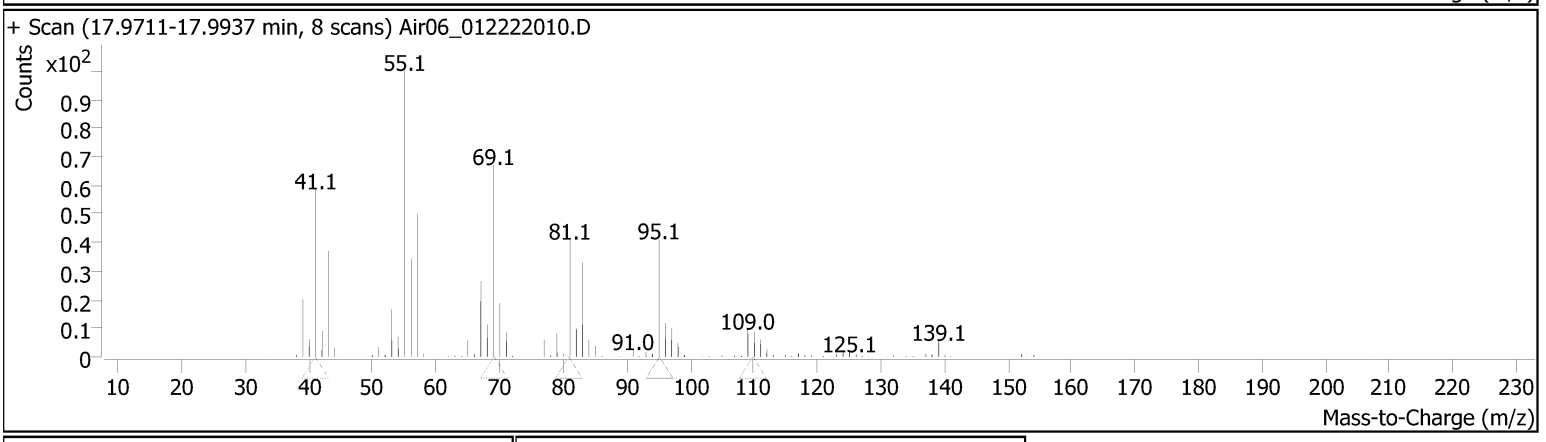



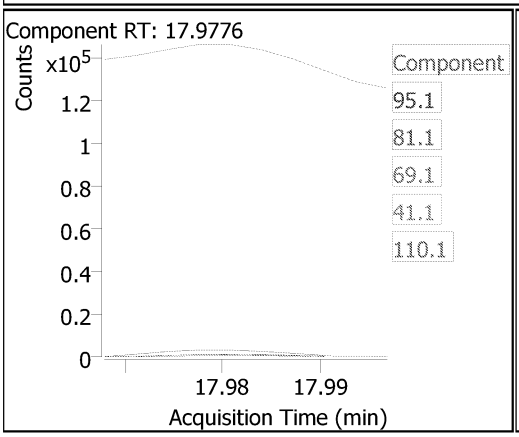



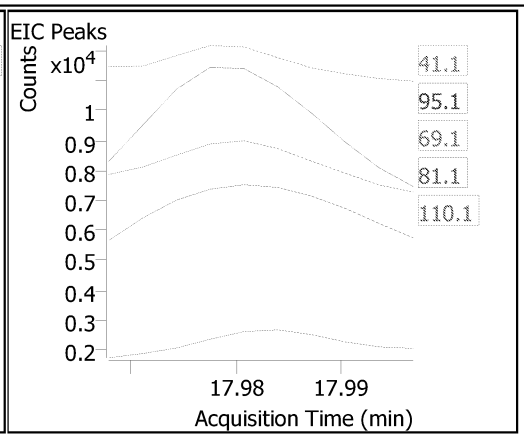
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.9776 | Cyclopropane, 2-(1,1-dimethyl-2-pentenyl)-1,1-dimethyl- | 118999.5 | 71.6 | 74663-76-6 | C12H22 | 0.2575 |

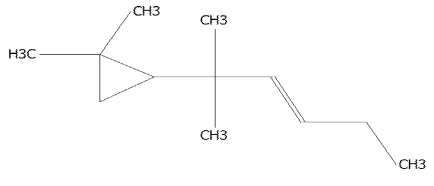


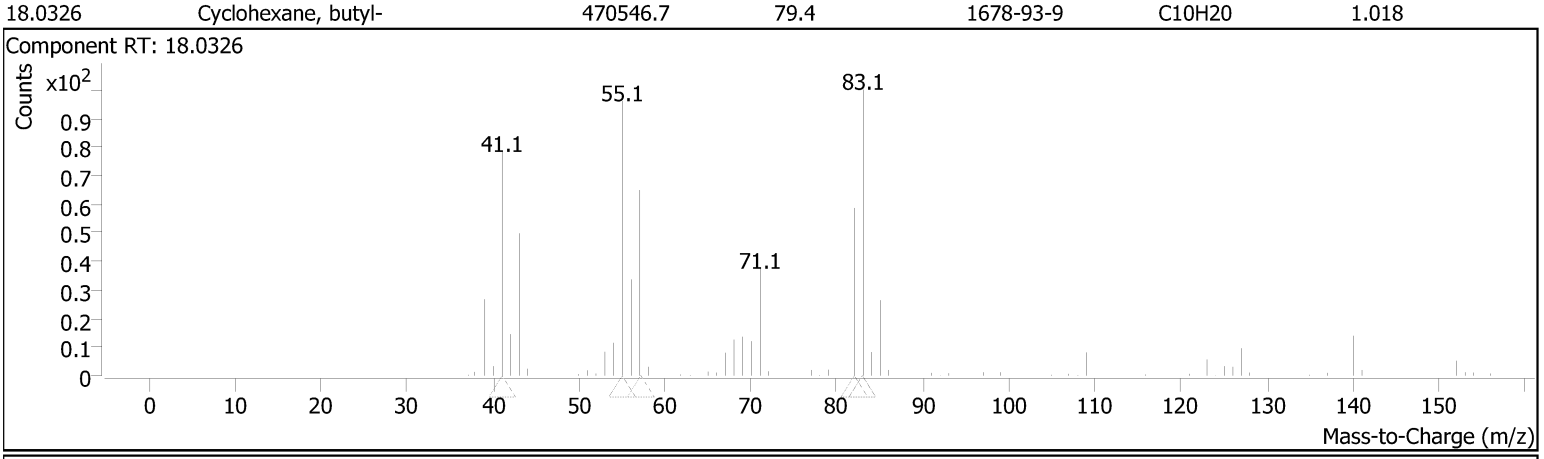



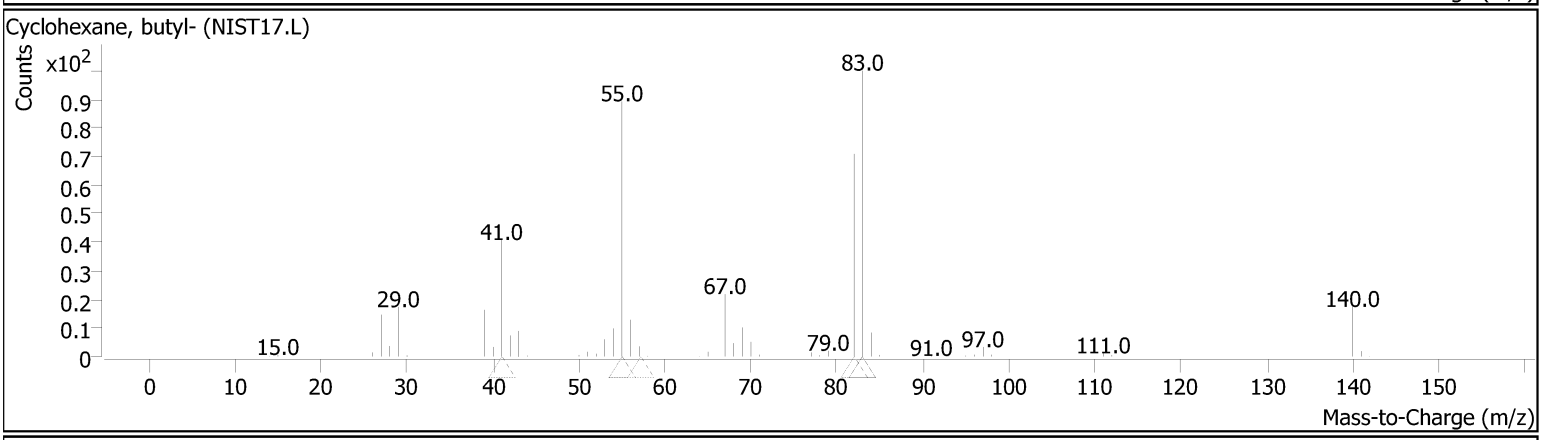



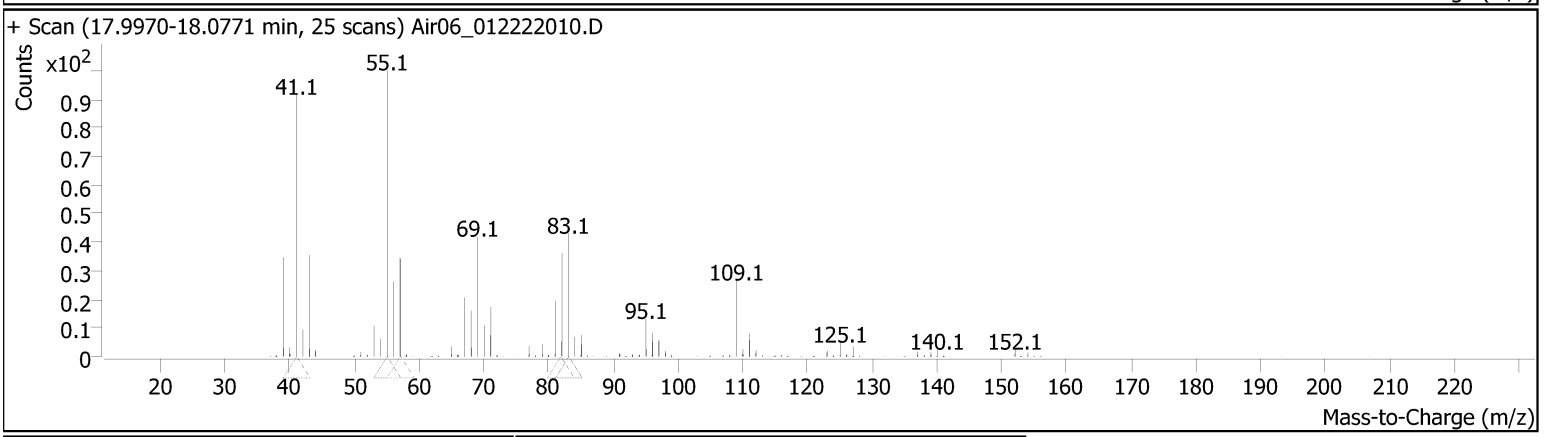



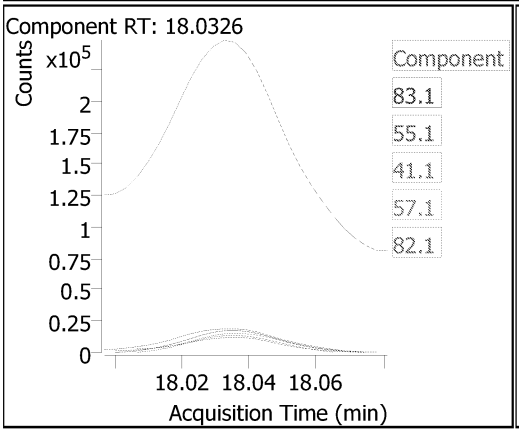



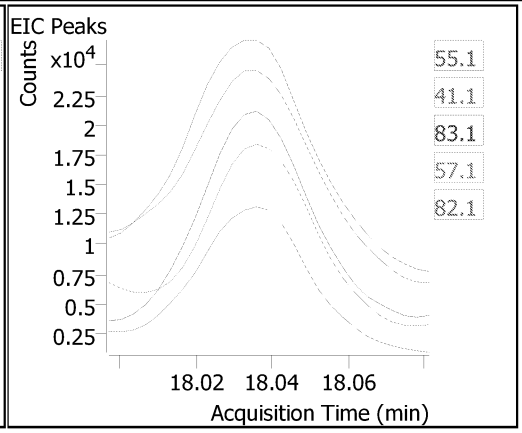
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.0326 | Cyclohexane, butyl- | 470546.7 | 79.4 | 1678-93-9 | C10H20 | 1.018 |

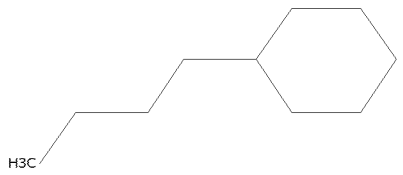


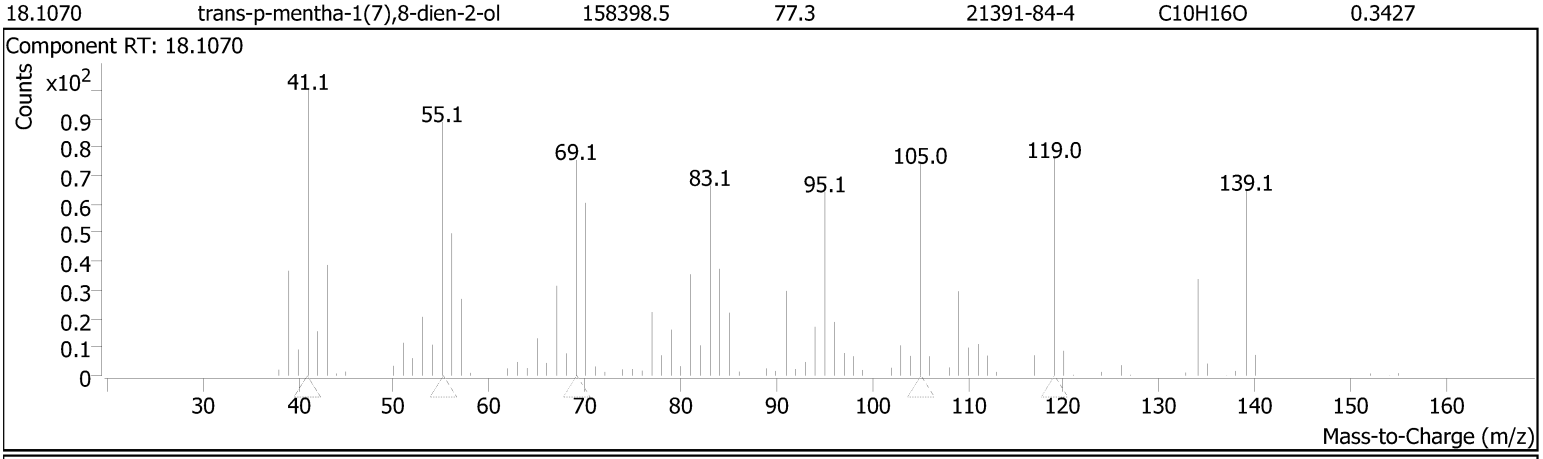



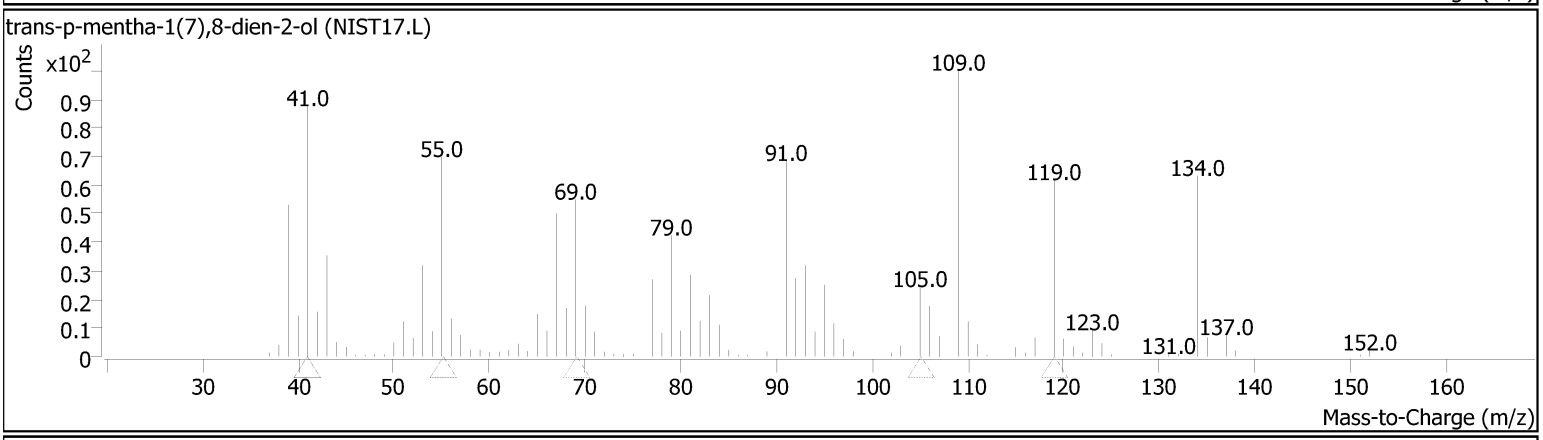



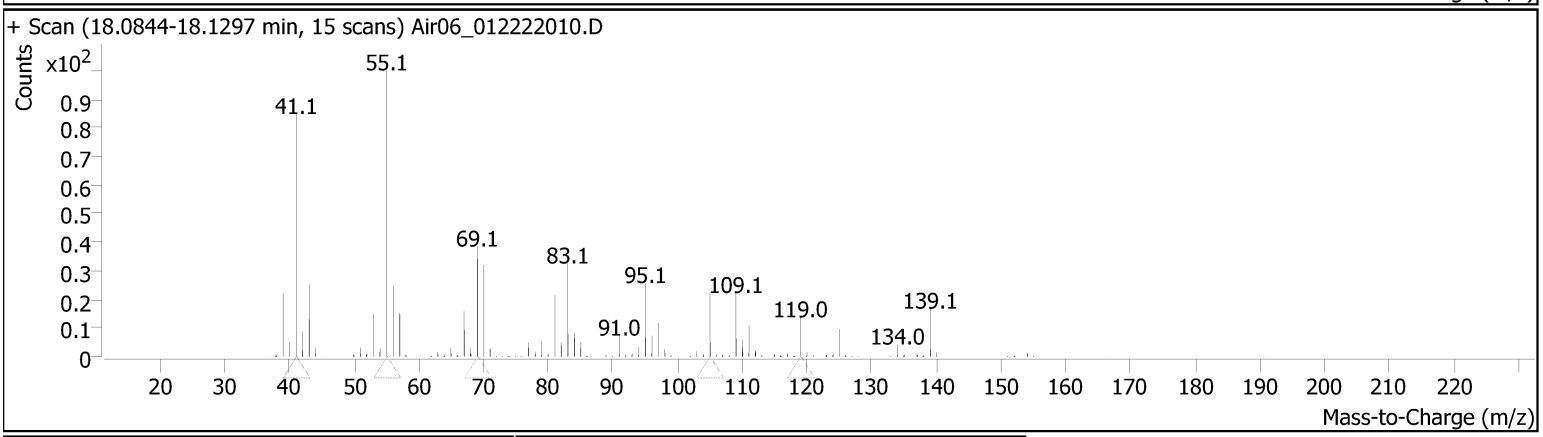



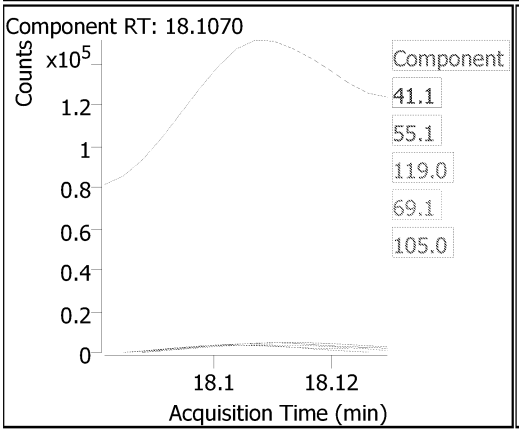



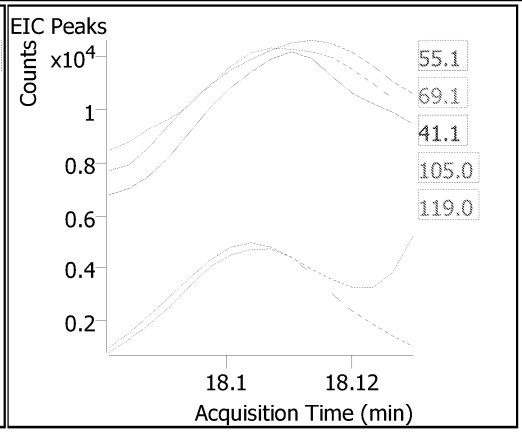
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1070 | trans-p-mentha-1(7),8-dien-2-ol | 158398.5 | 77.3 | 21391-84-4 | C10H16O | 0.3427 |

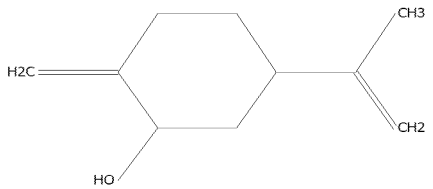


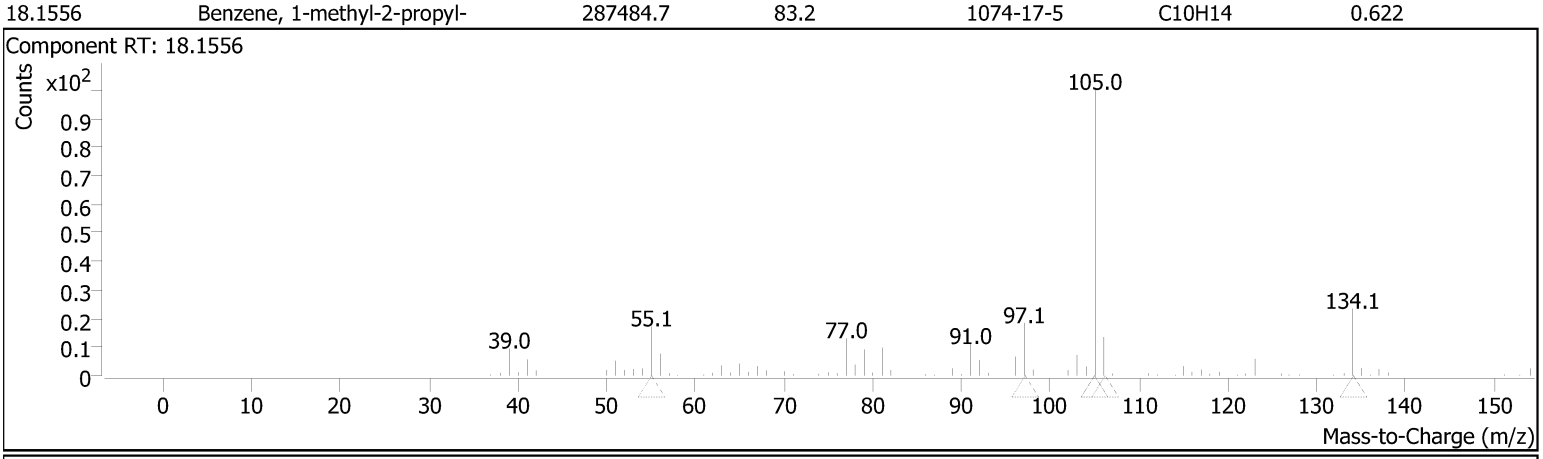



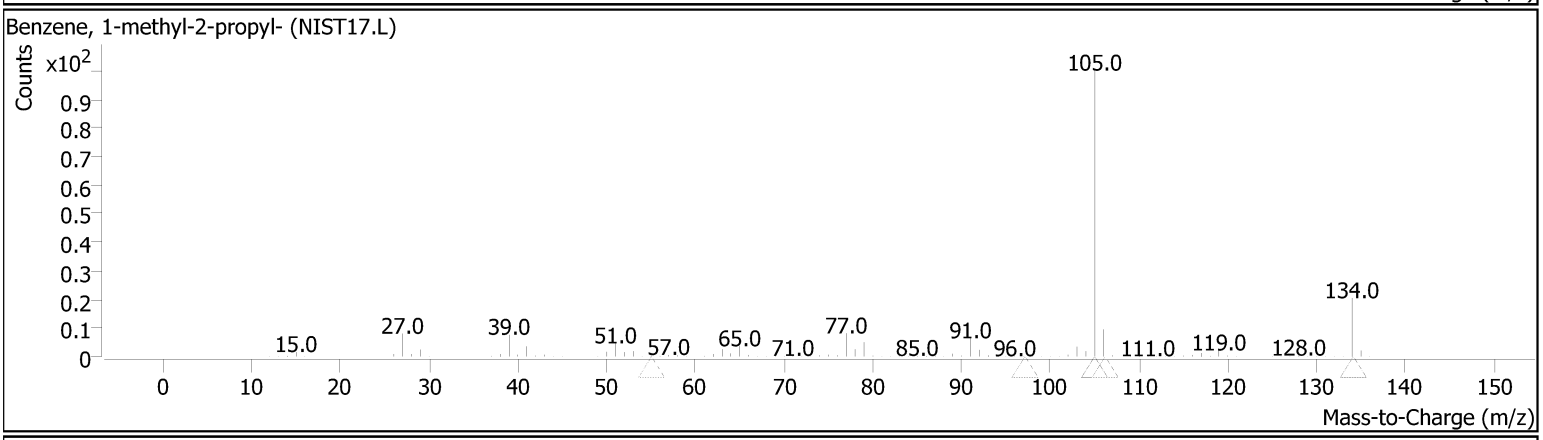



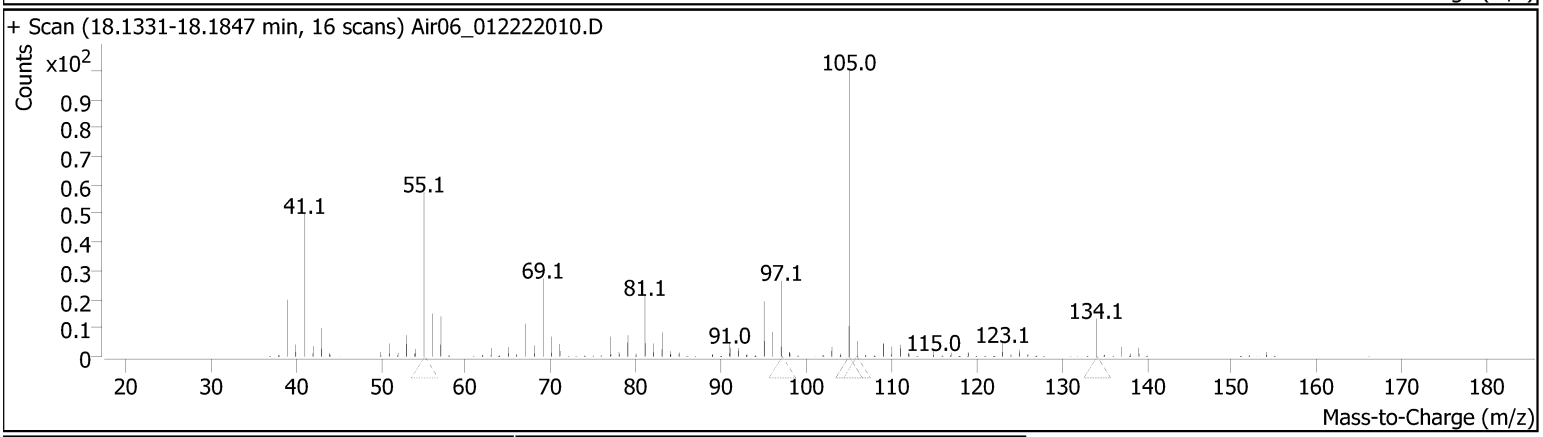



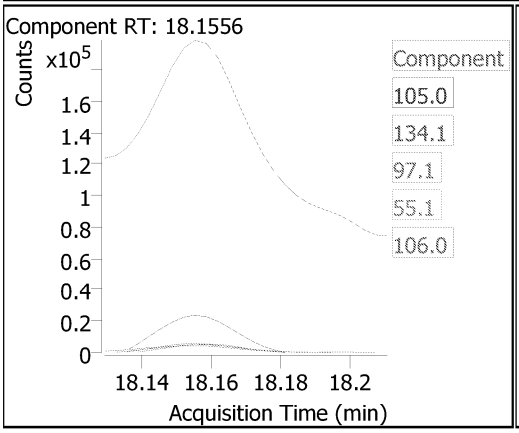



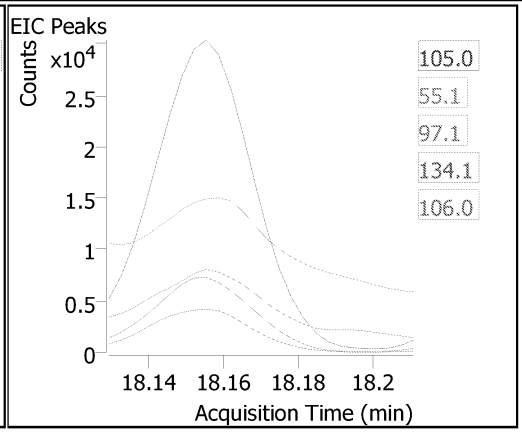
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1556 | Benzene, 1-methyl-2-propyl- | 287484.7 | 83.2 | 1074-17-5 | C10H14 | 0.622 |

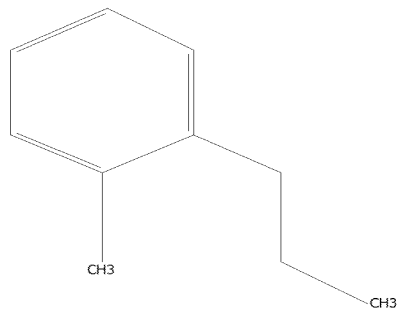


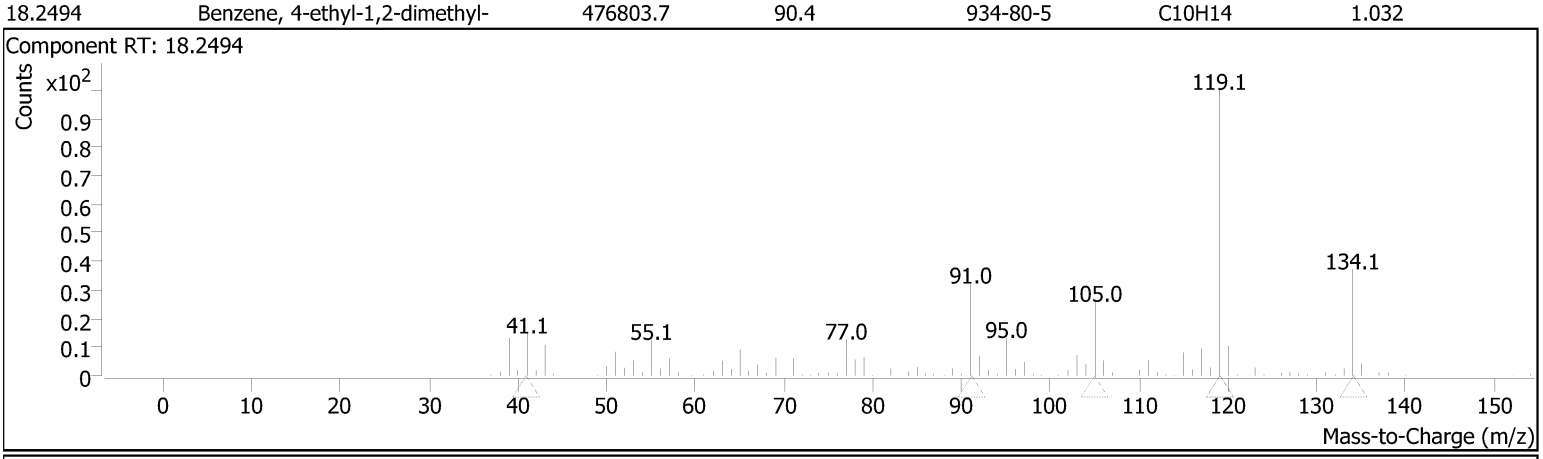



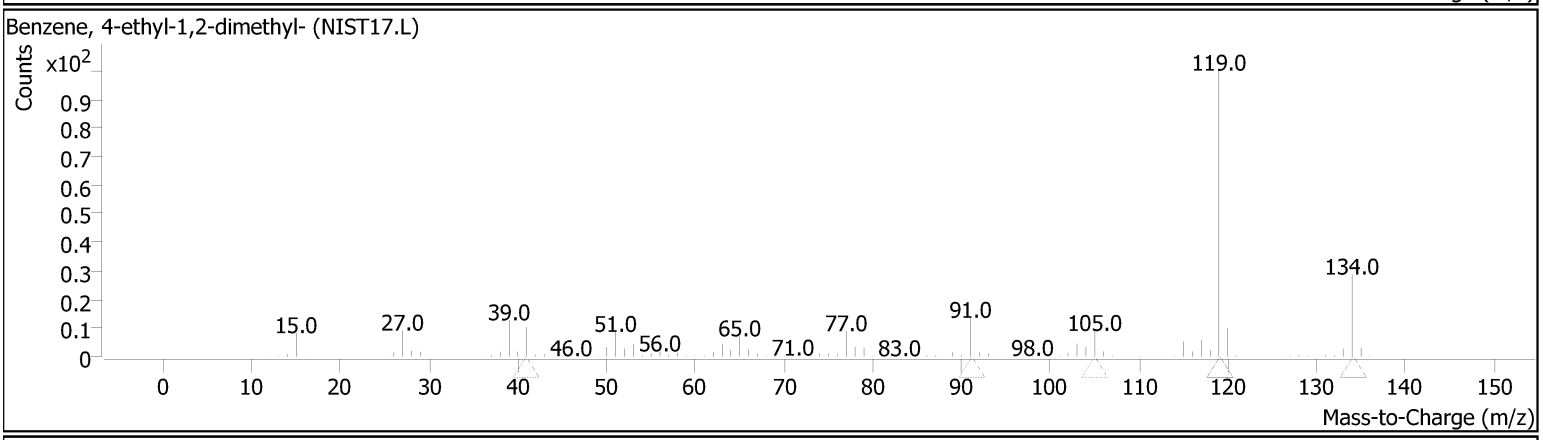



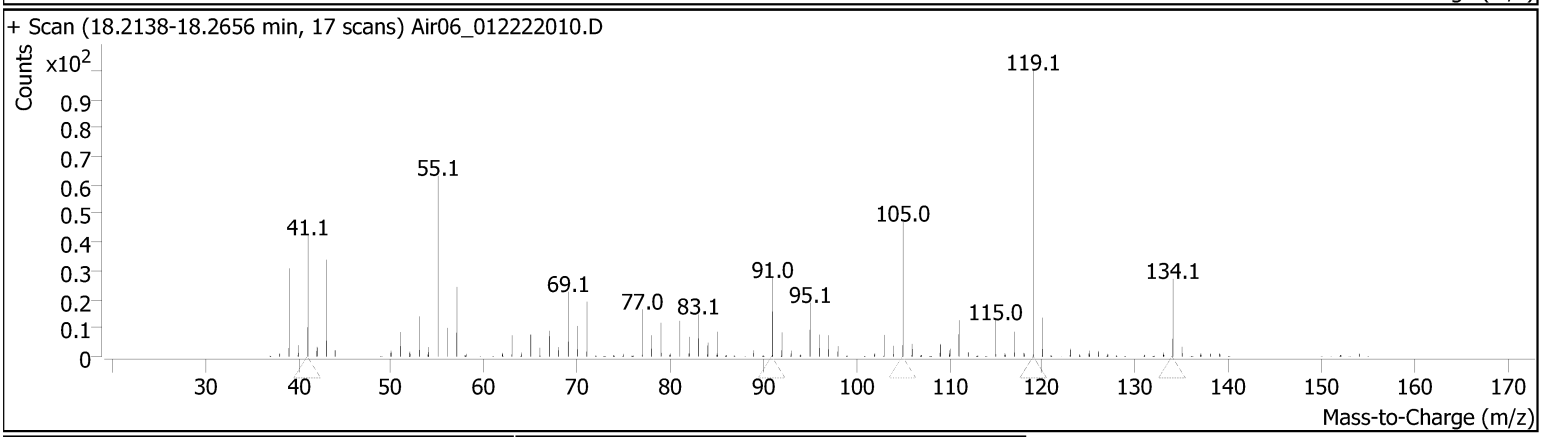



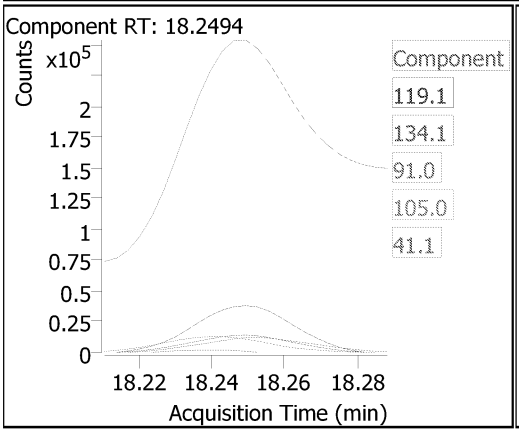



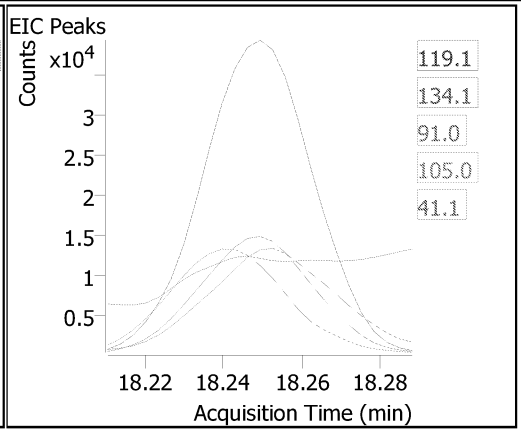
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.2494 | Benzene, 4-ethyl-1,2-dimethyl- | 476803.7 | 90.4 | 934-80-5 | C10H14 | 1.032 |

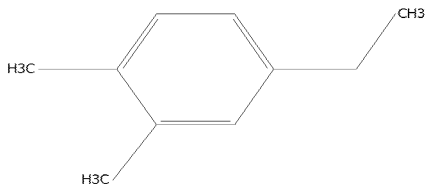


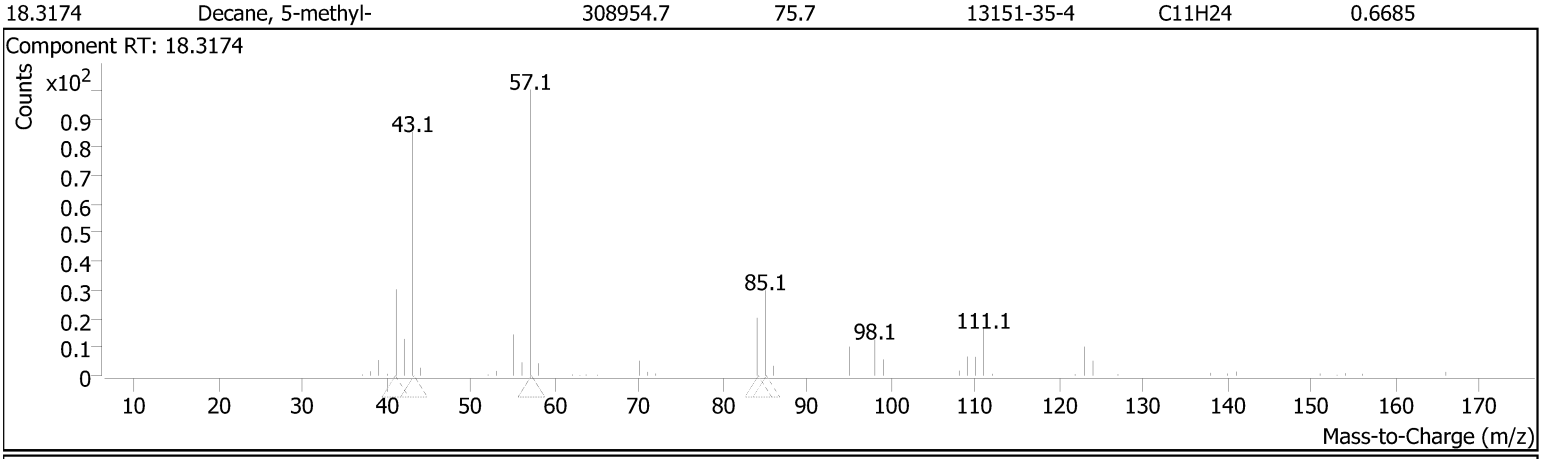



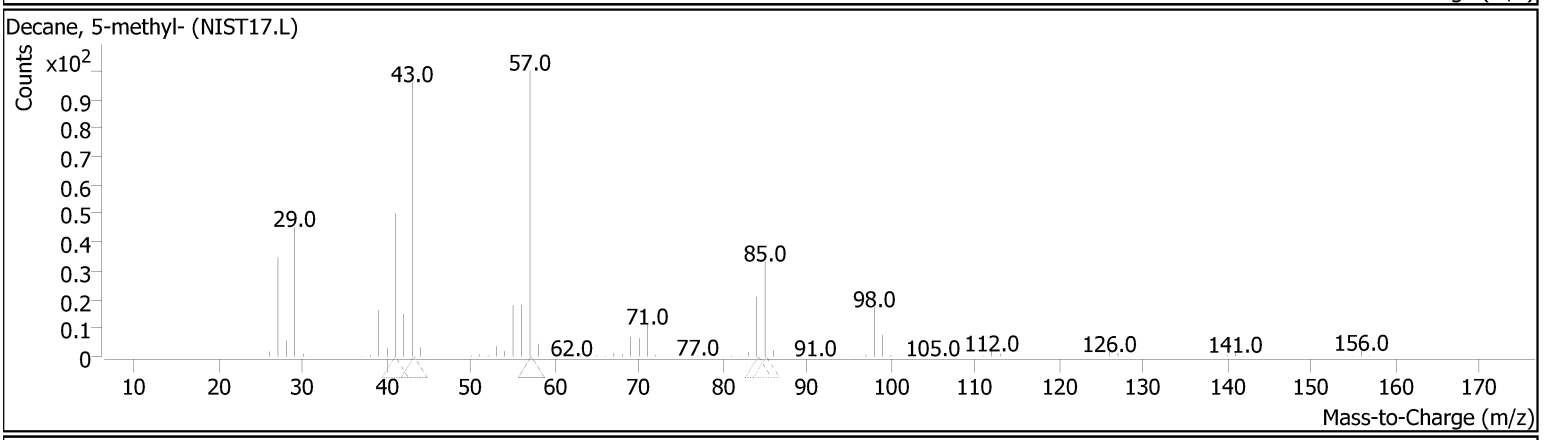



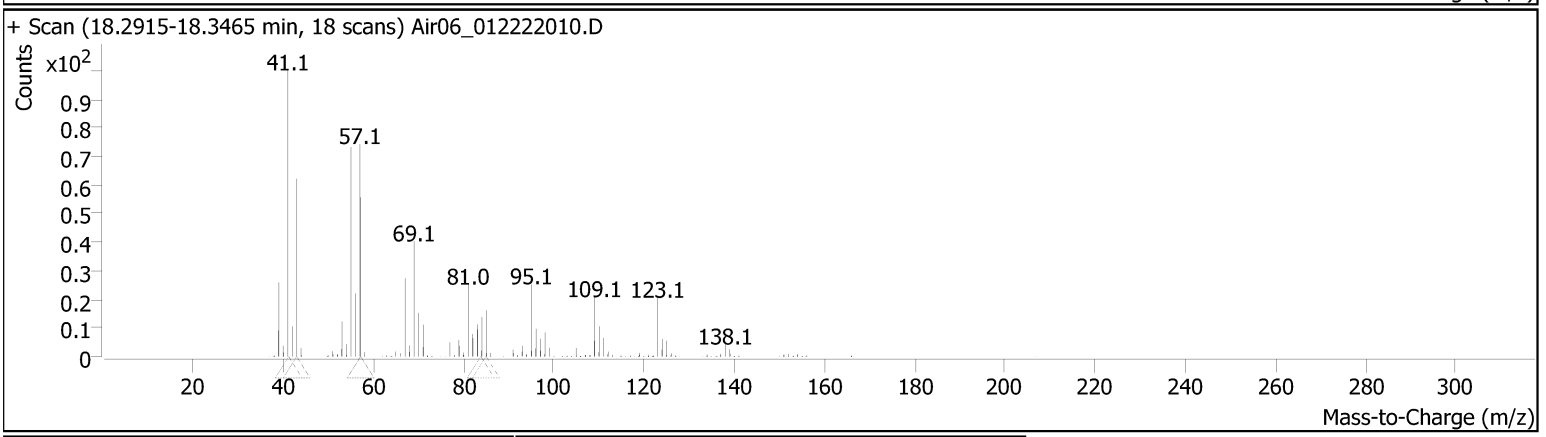



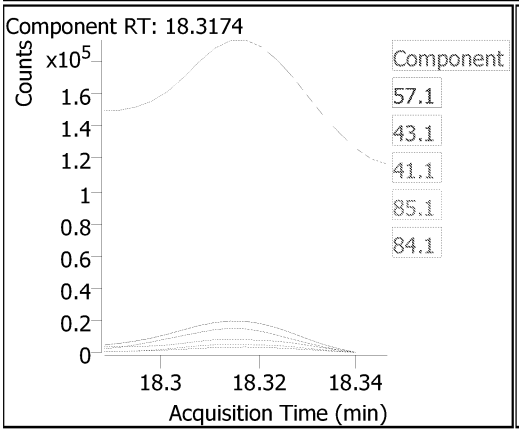
Agilent Technologies

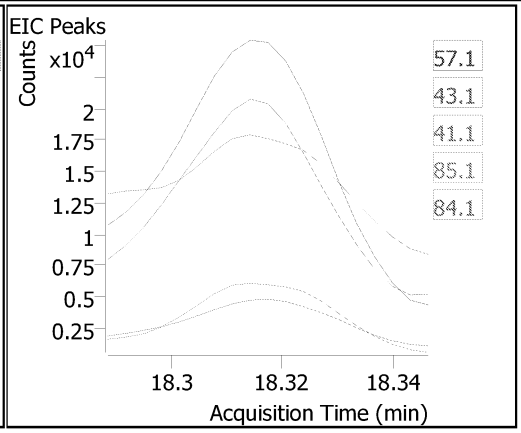
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3174 | Decane, 5-methyl- | 308954.7 | 75.7 | 13151-35-4 | C11H24 | 0.6685 |

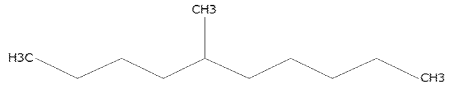


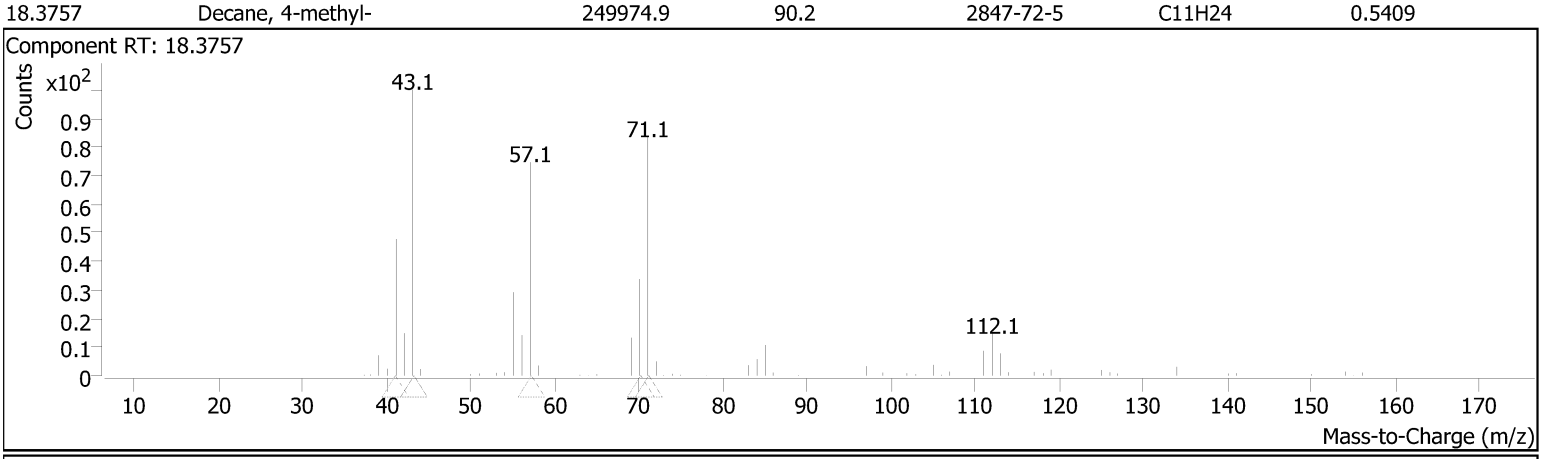



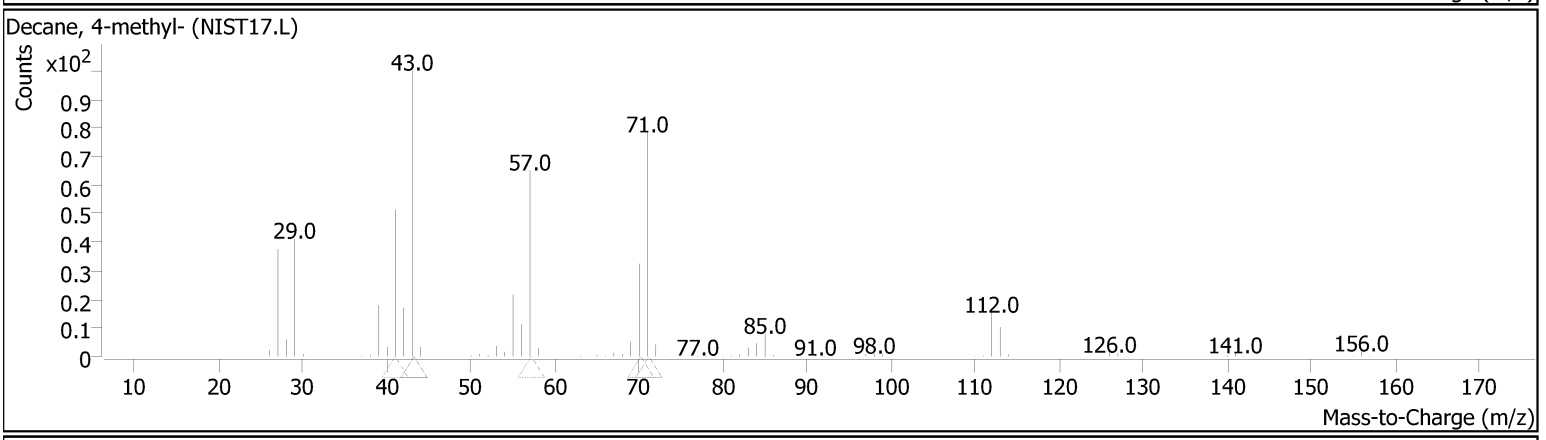



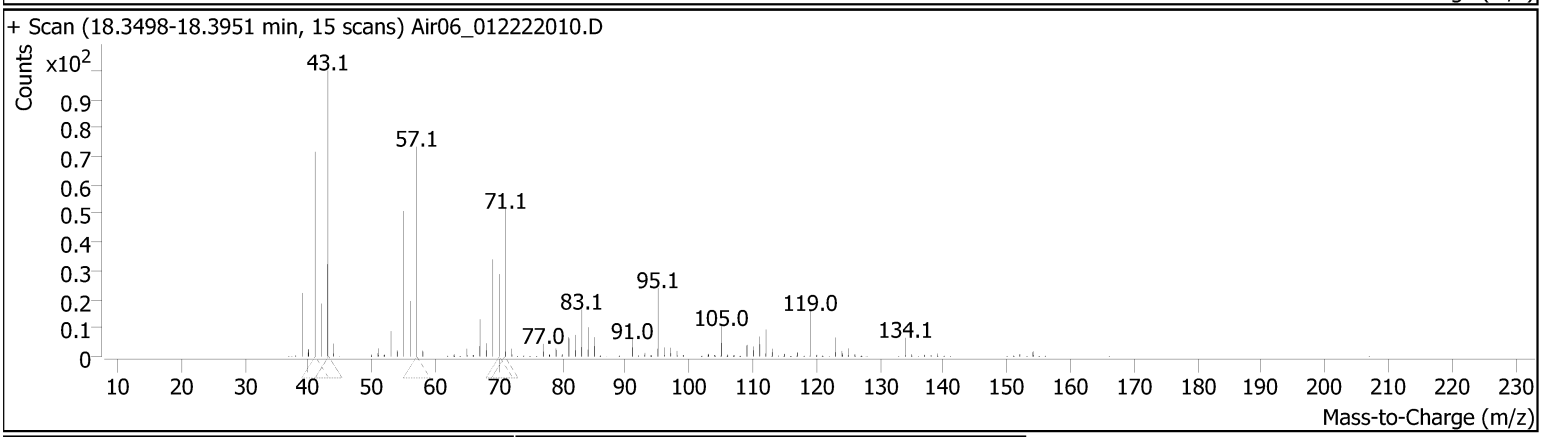



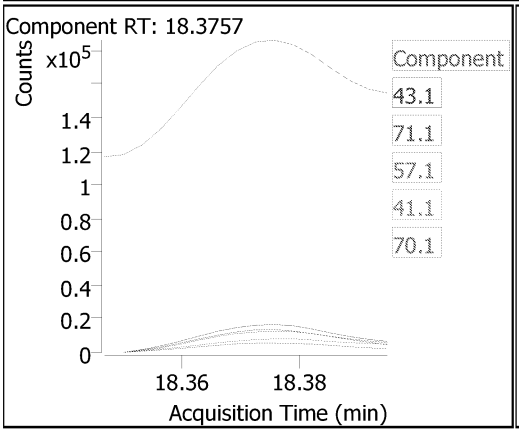



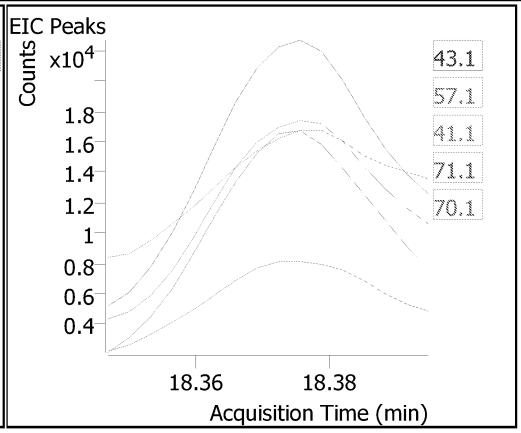
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3757 | Decane, 4-methyl- | 249974.9 | 90.2 | 2847-72-5 | C11H24 | 0.5409 |

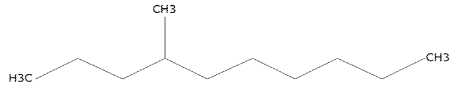


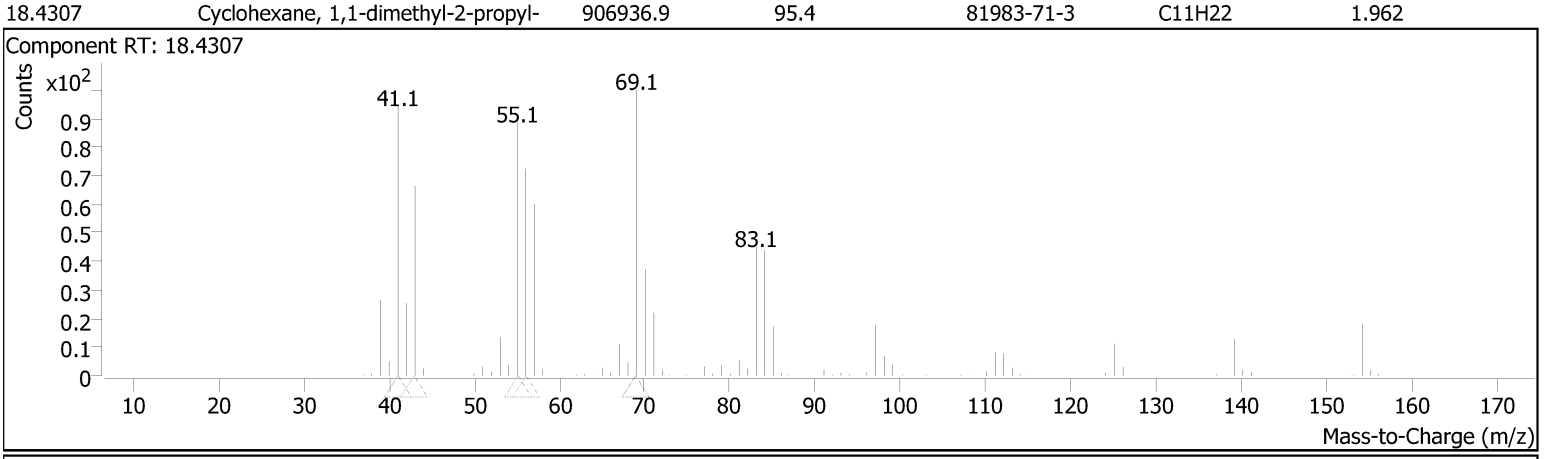



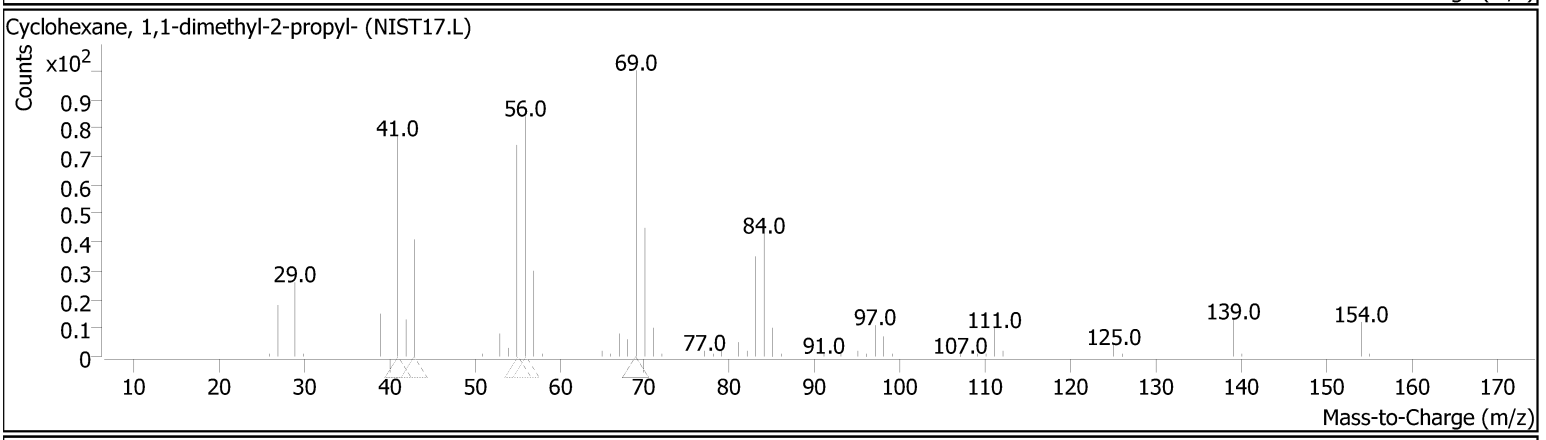



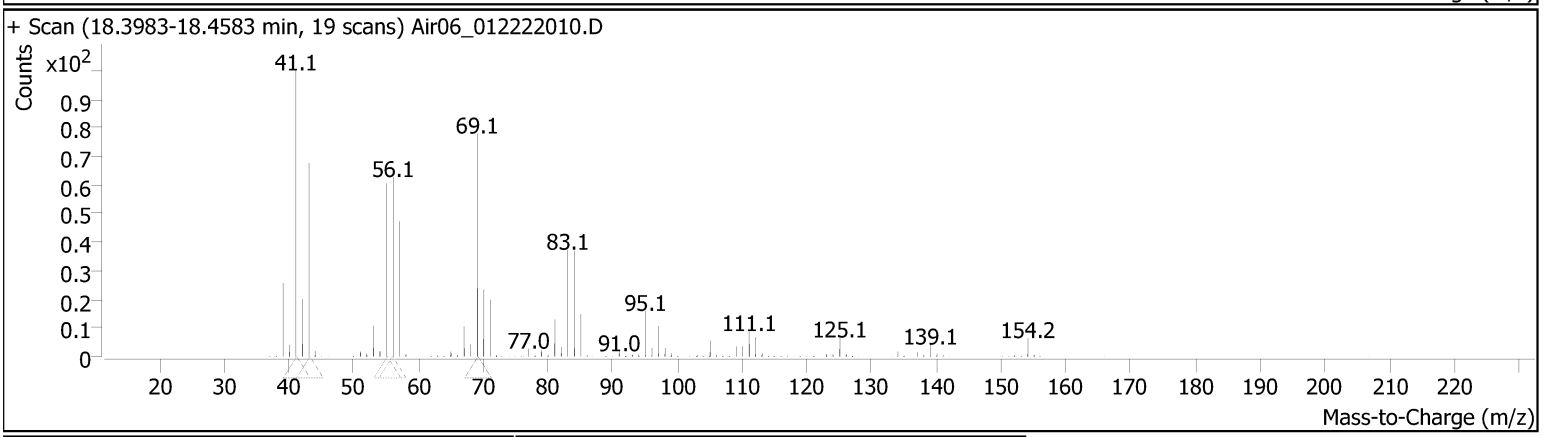



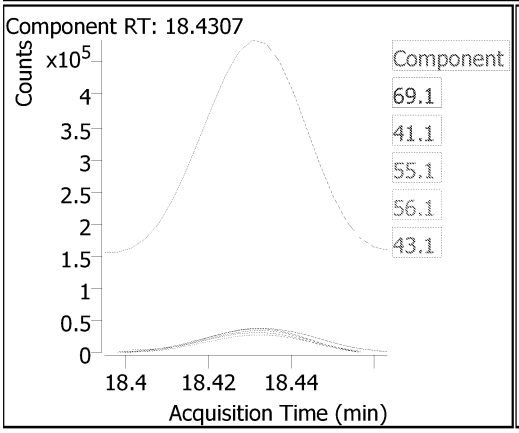



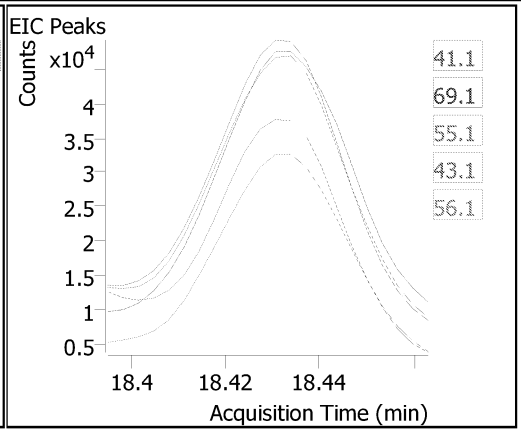
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4307 | Cyclohexane, 1,1-dimethyl-2-propyl- | 906936.9 | 95.4 | 81983-71-3 | C11H22 | 1.962 |

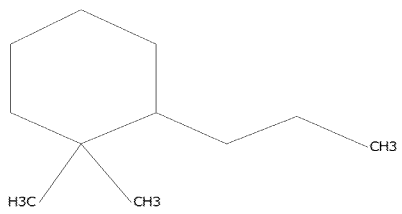


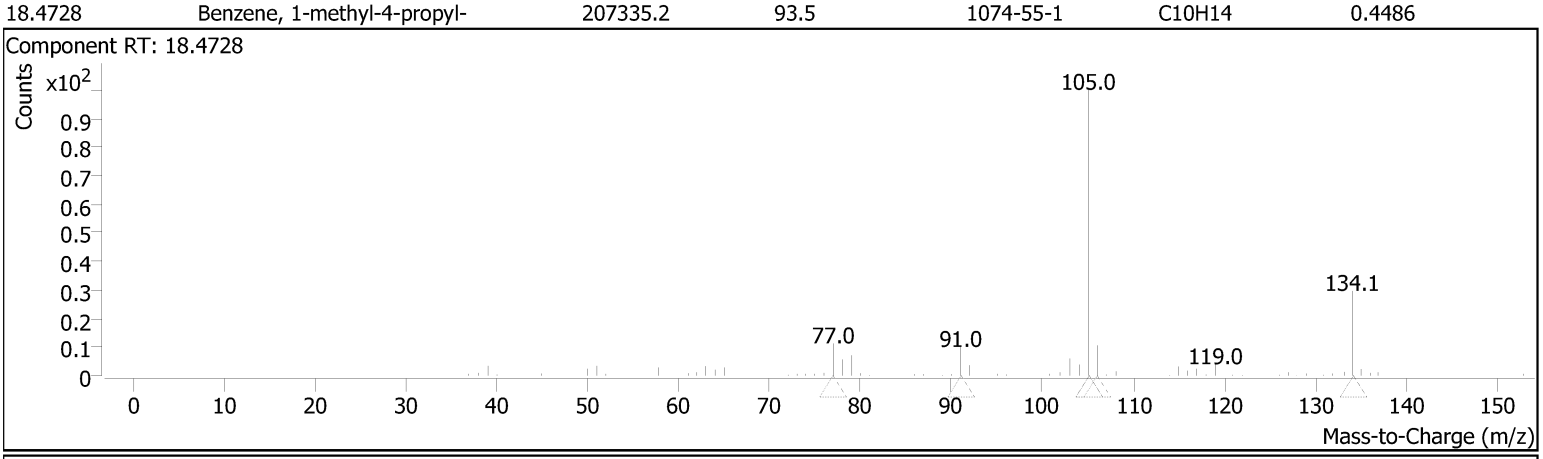



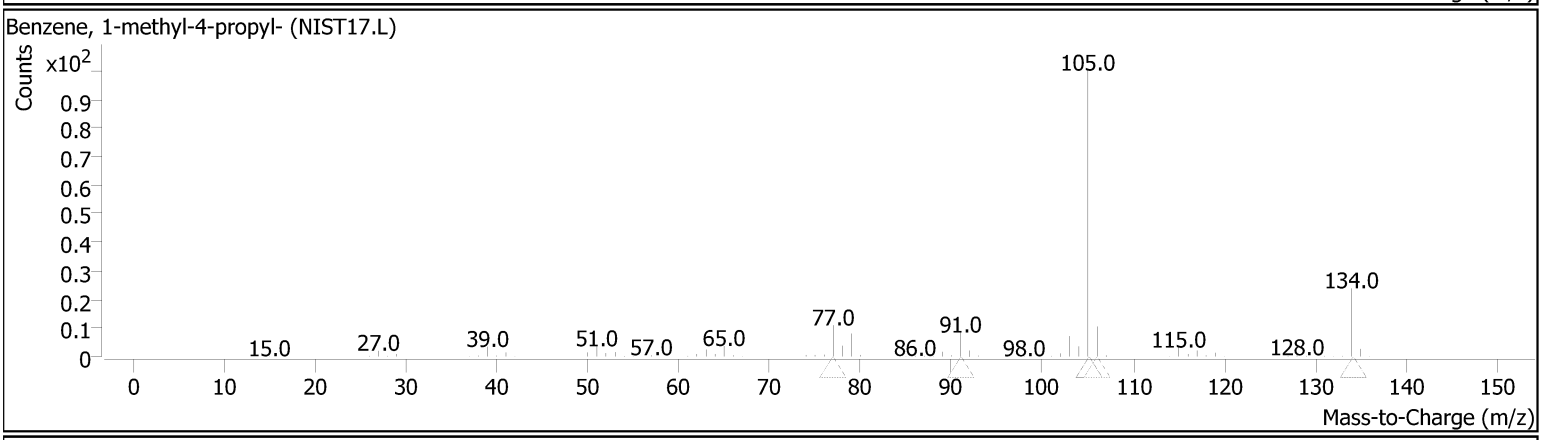



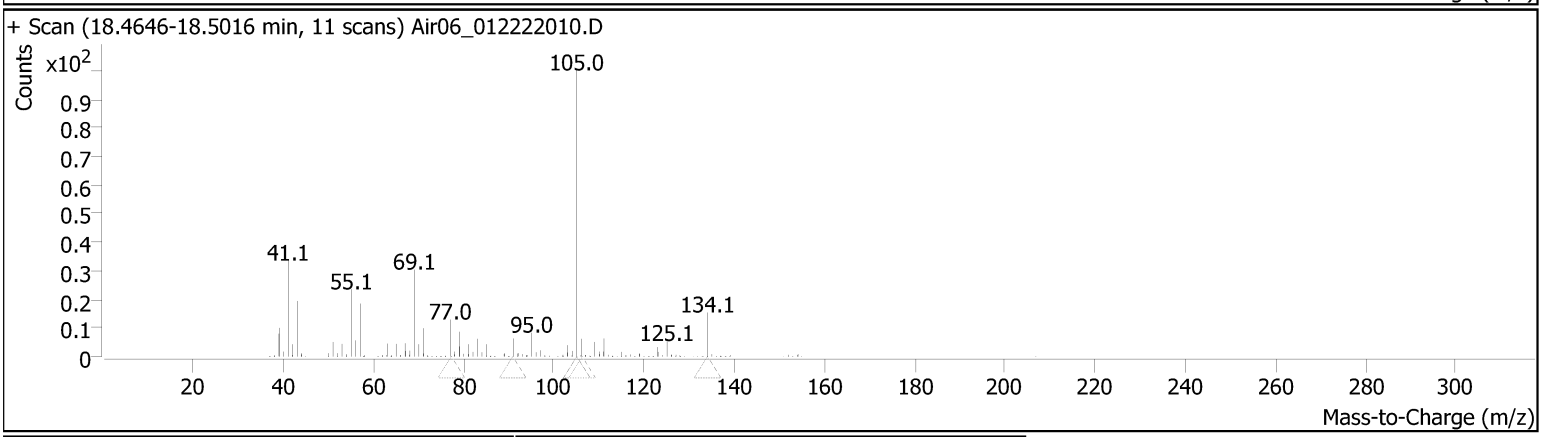



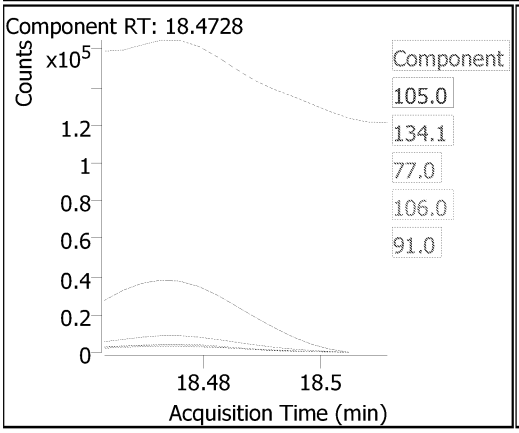



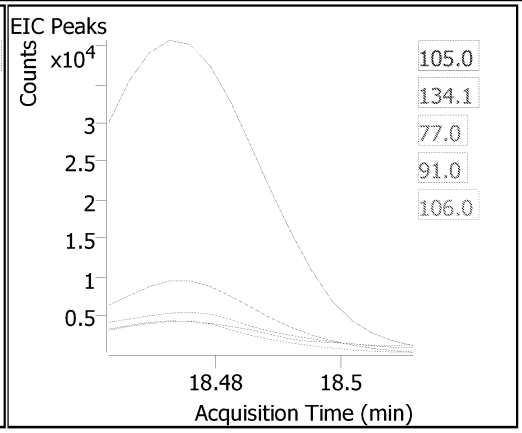
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4728 | Benzene, 1-methyl-4-propyl- | 207335.2 | 93.5 | 1074-55-1 | C10H14 | 0.4486 |

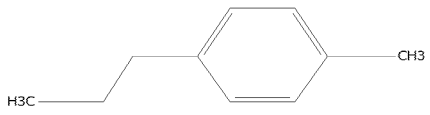


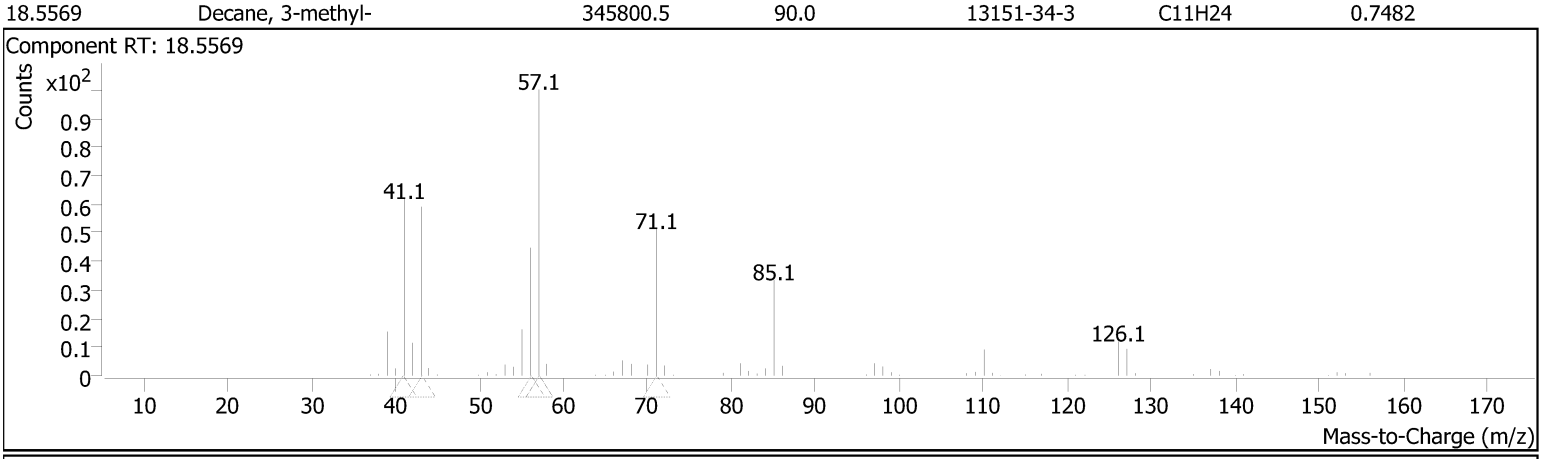



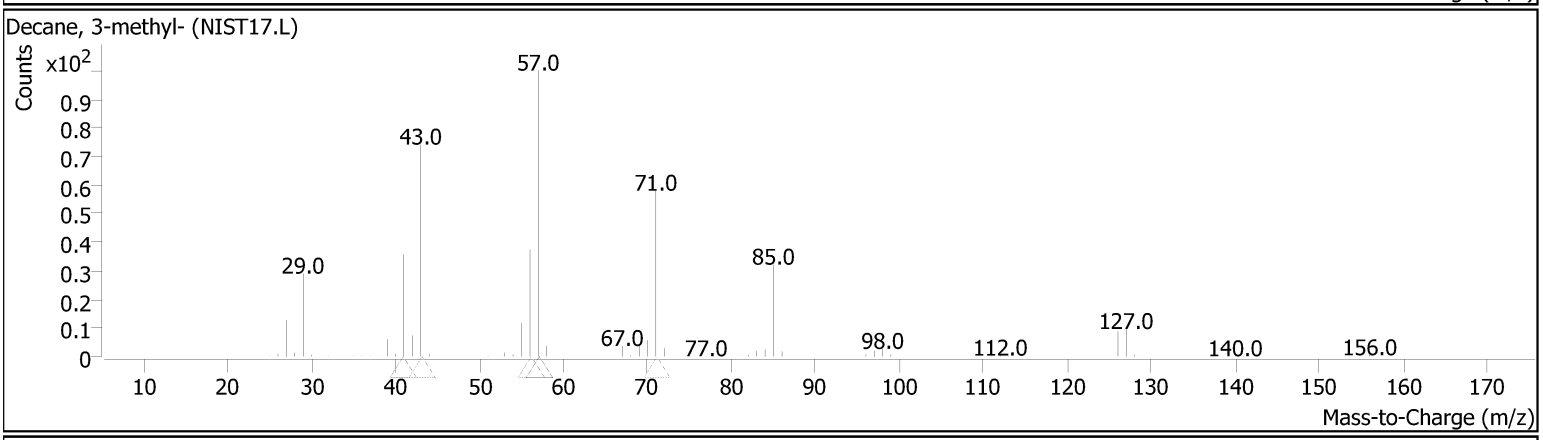



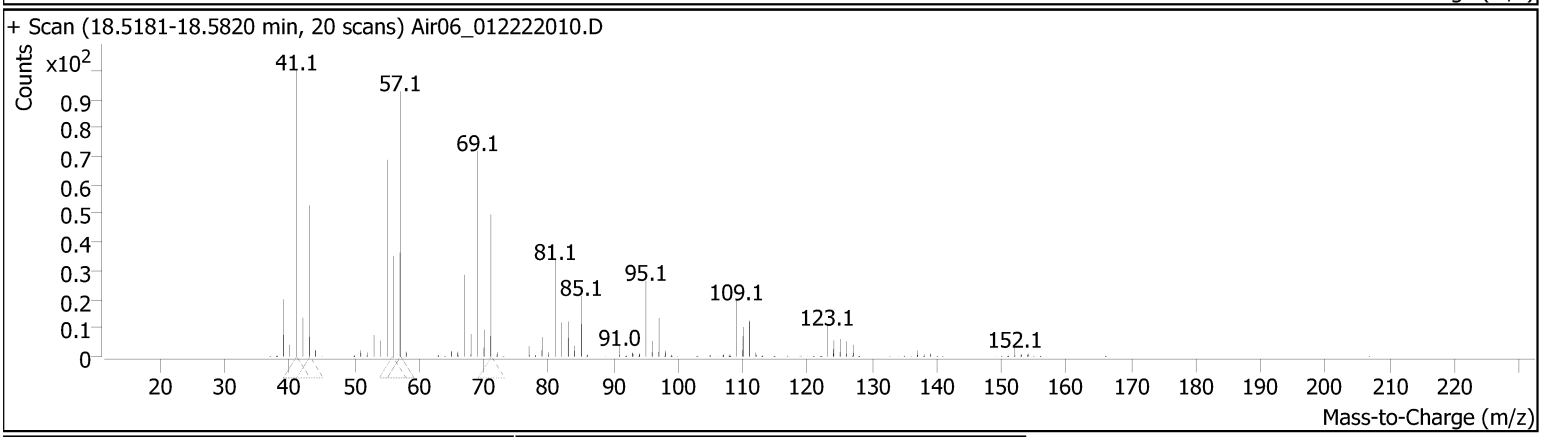



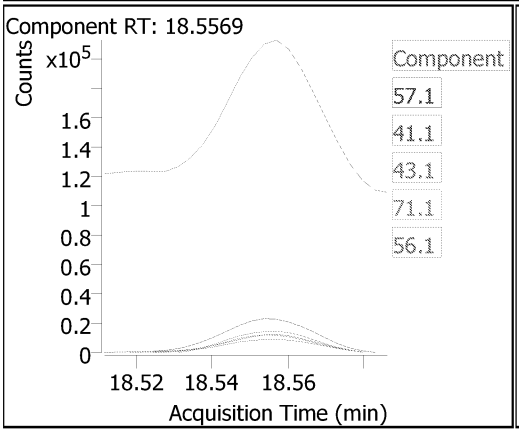



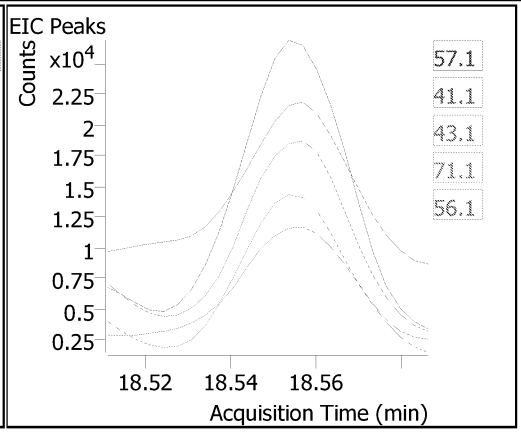
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.5569 | Decane, 3-methyl- | 345800.5 | 90.0 | 13151-34-3 | C11H24 | 0.7482 |

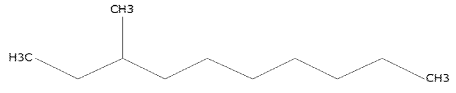


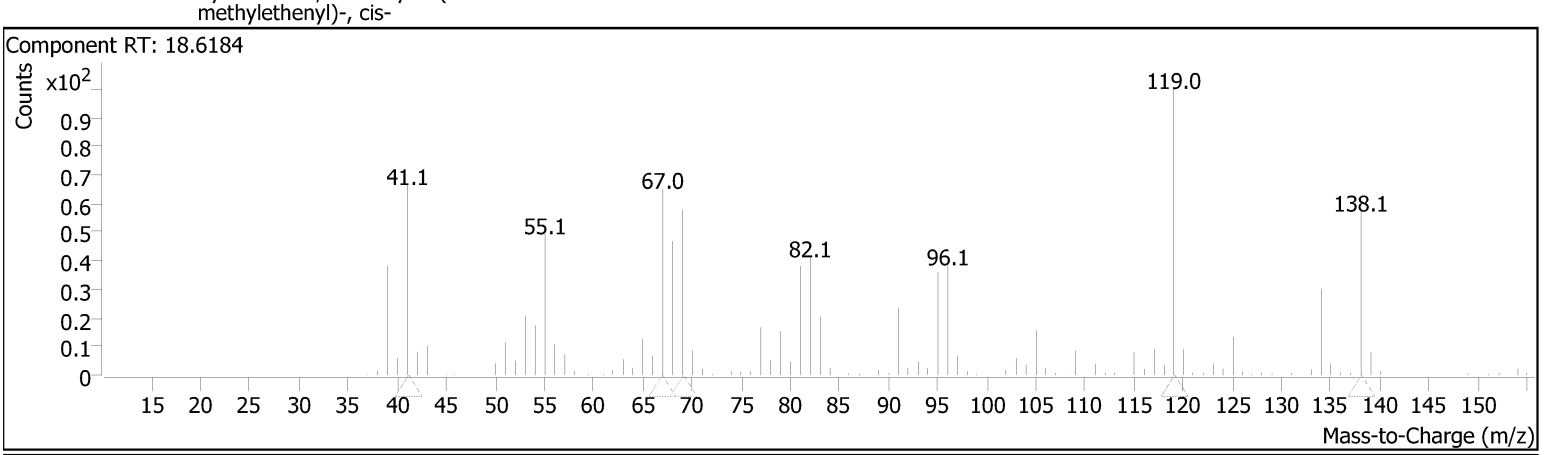



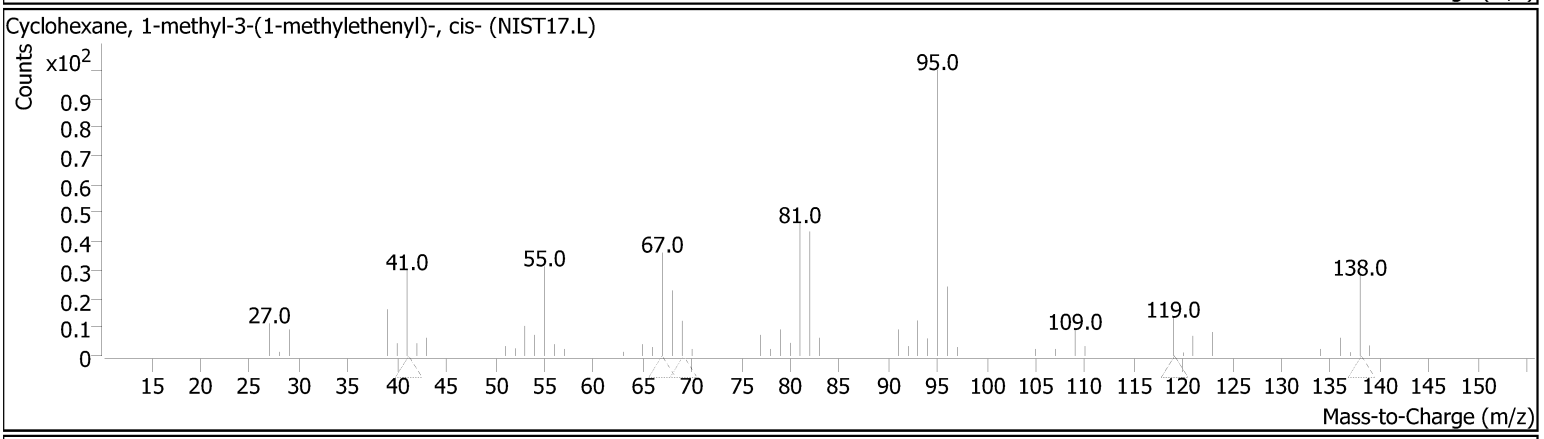



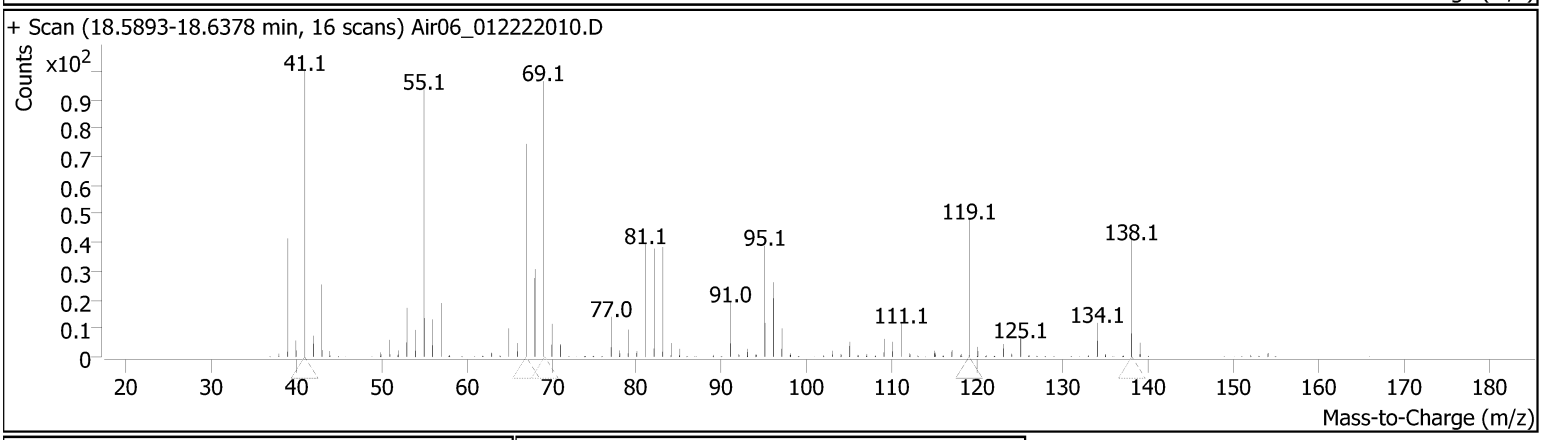
# Library Search Results - NonTarget Hits with Details

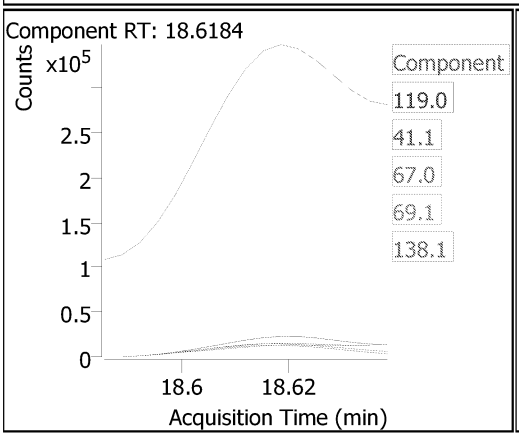
Agilent Technologies

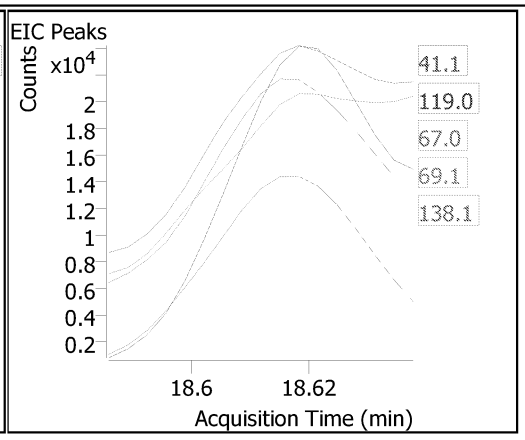
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.6184 | Cyclohexane, 1-methyl-3-(1-methylethenyl)-, cis- | 566807.9 | 78.7 | 24399-15-3 | C10H18 | 1.226 |

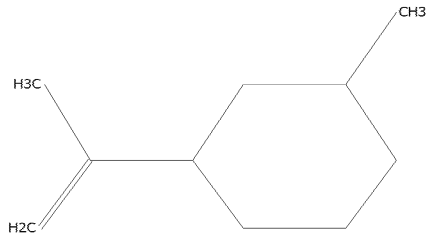


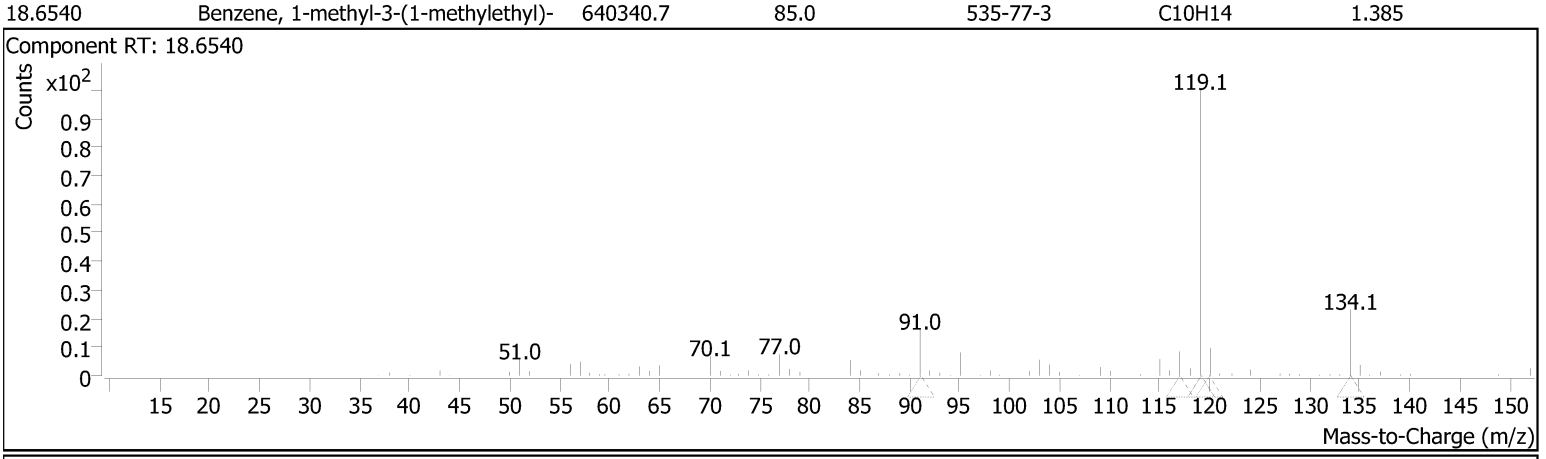



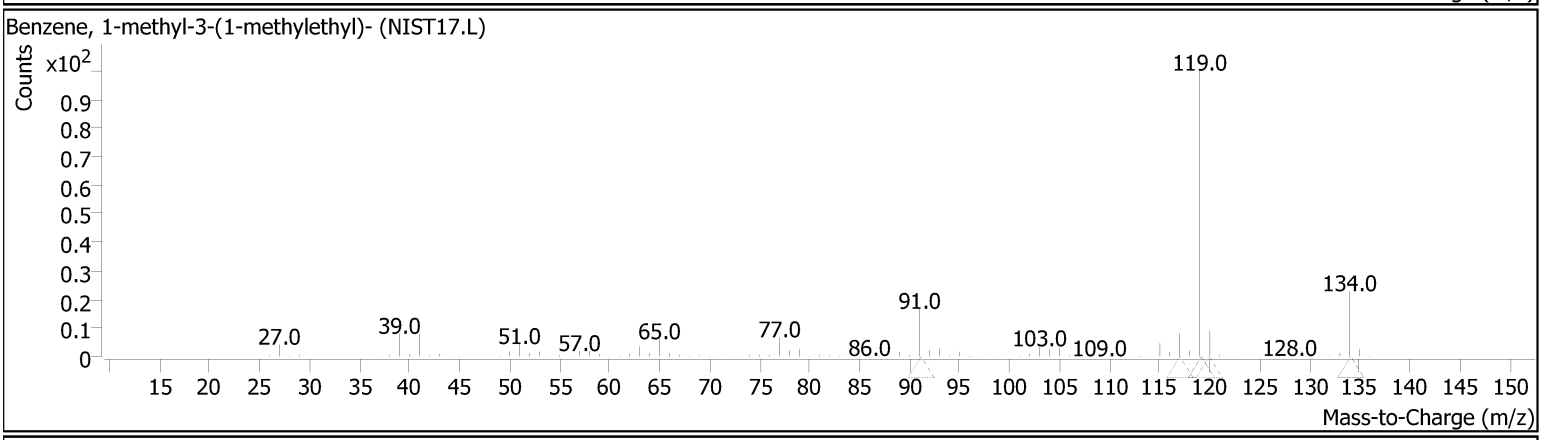



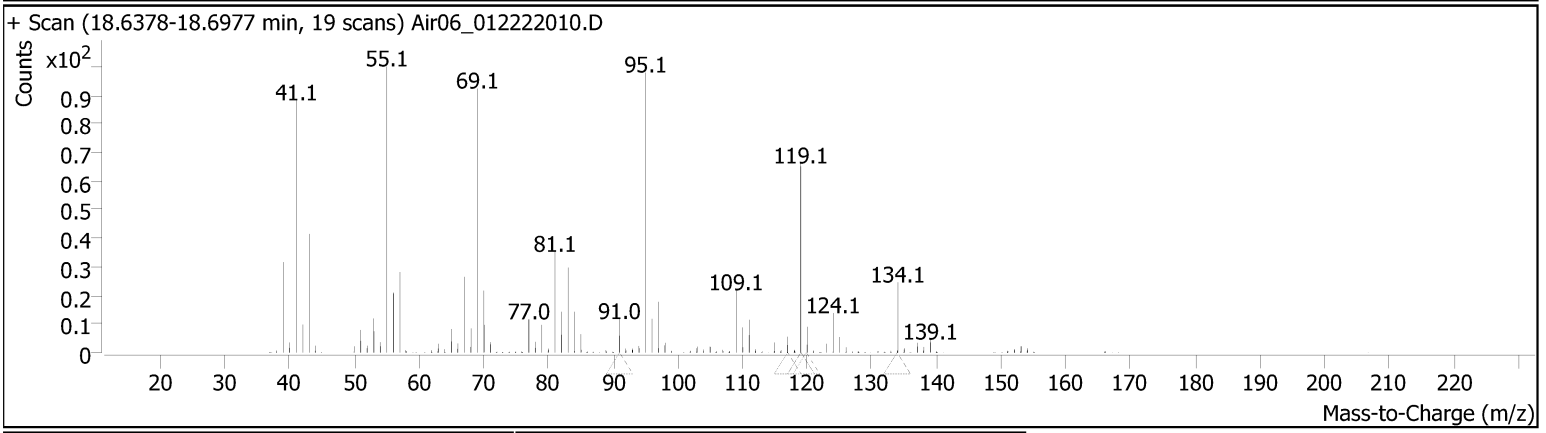



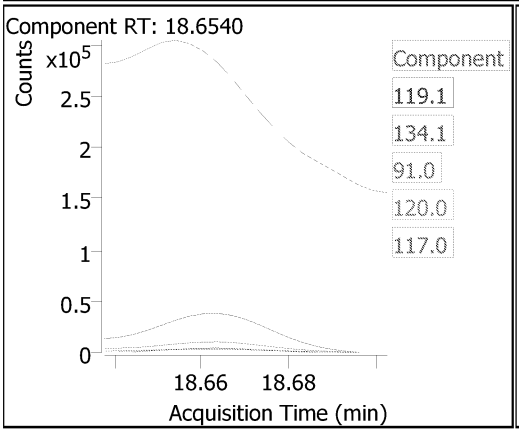



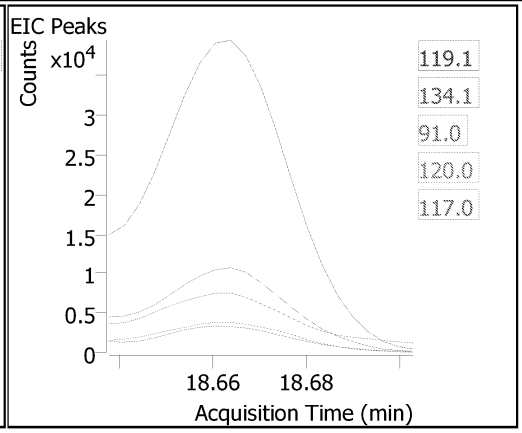
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.6540 | Benzene, 1-methyl-3-(1-methylethyl)- | 640340.7 | 85.0 | 535-77-3 | C10H14 | 1.385 |

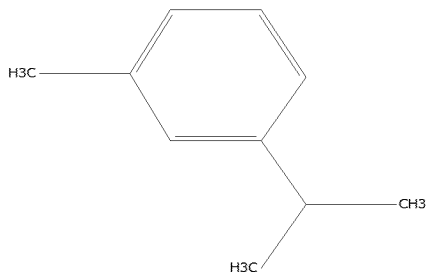


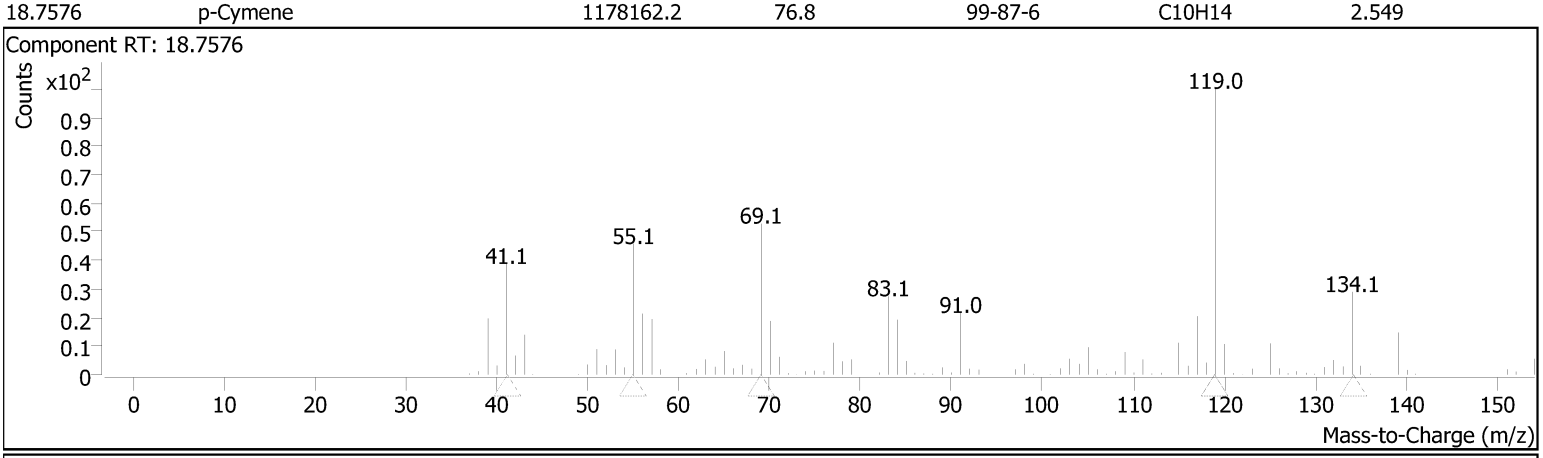



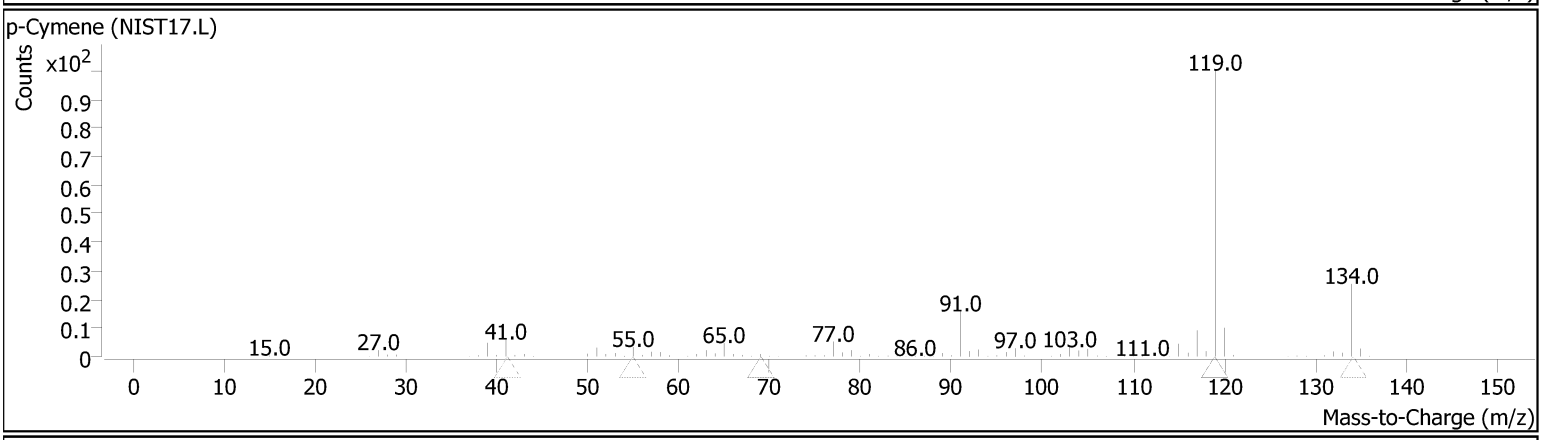



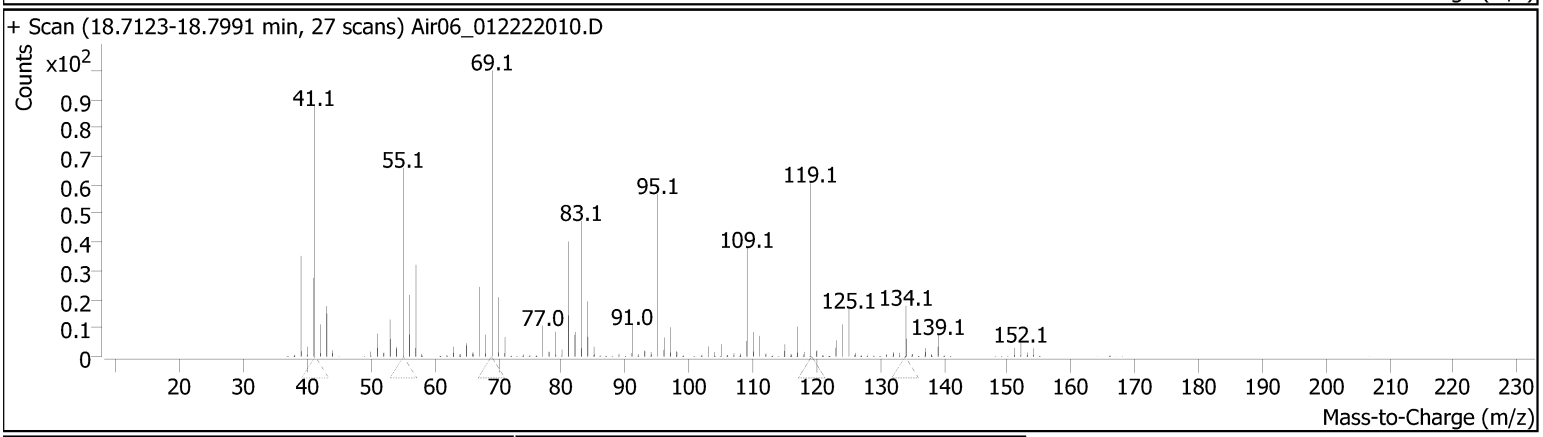



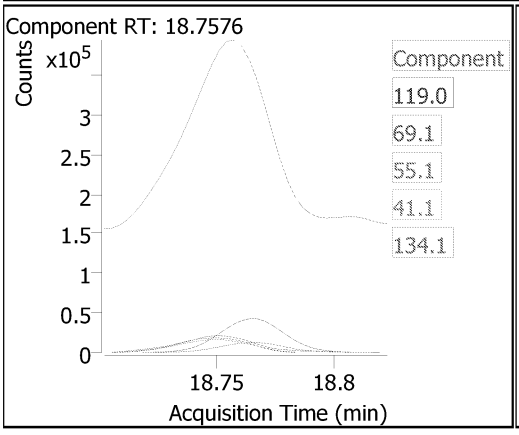



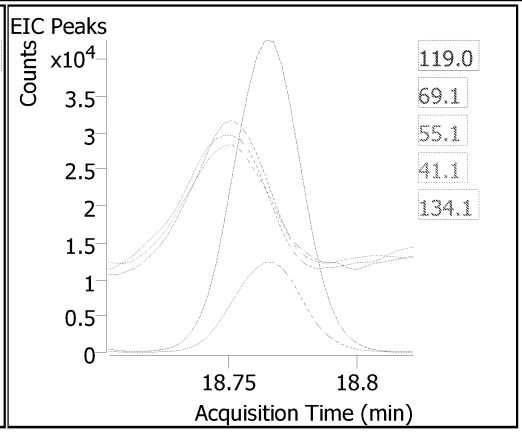
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.7576 | p-Cymene | 1178162.2 | 76.8 | 99-87-6 | C10H14 | 2.549 |

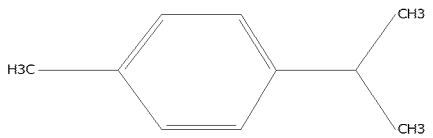


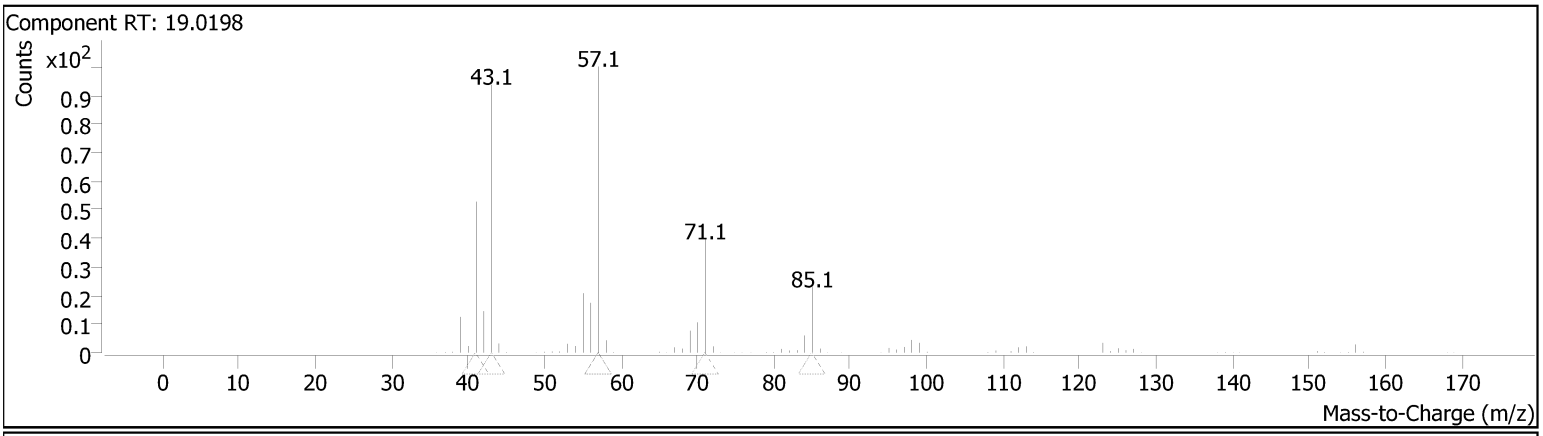



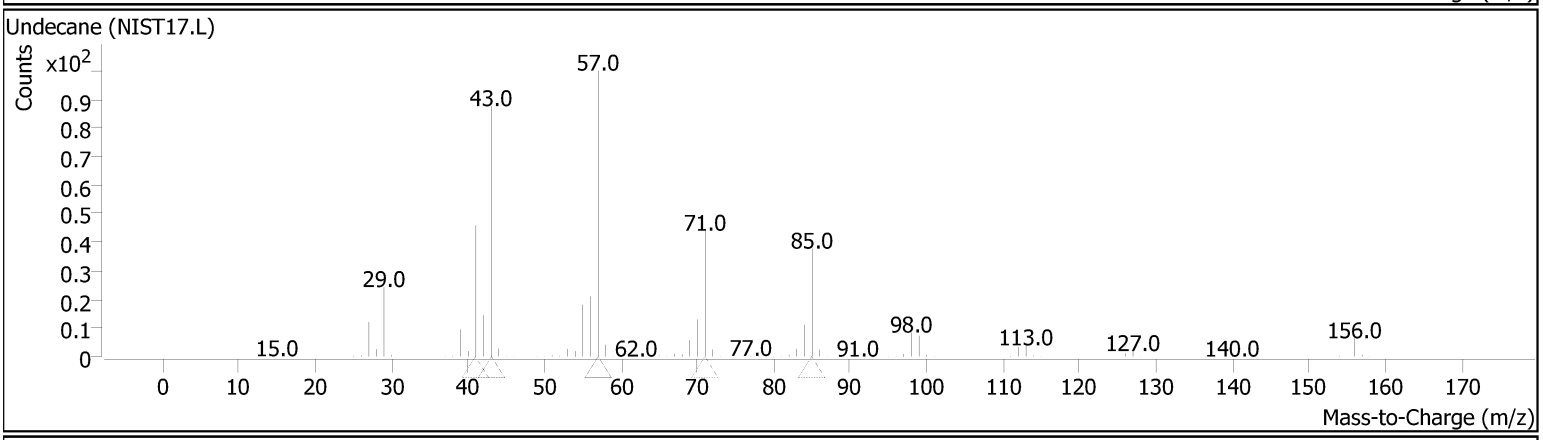



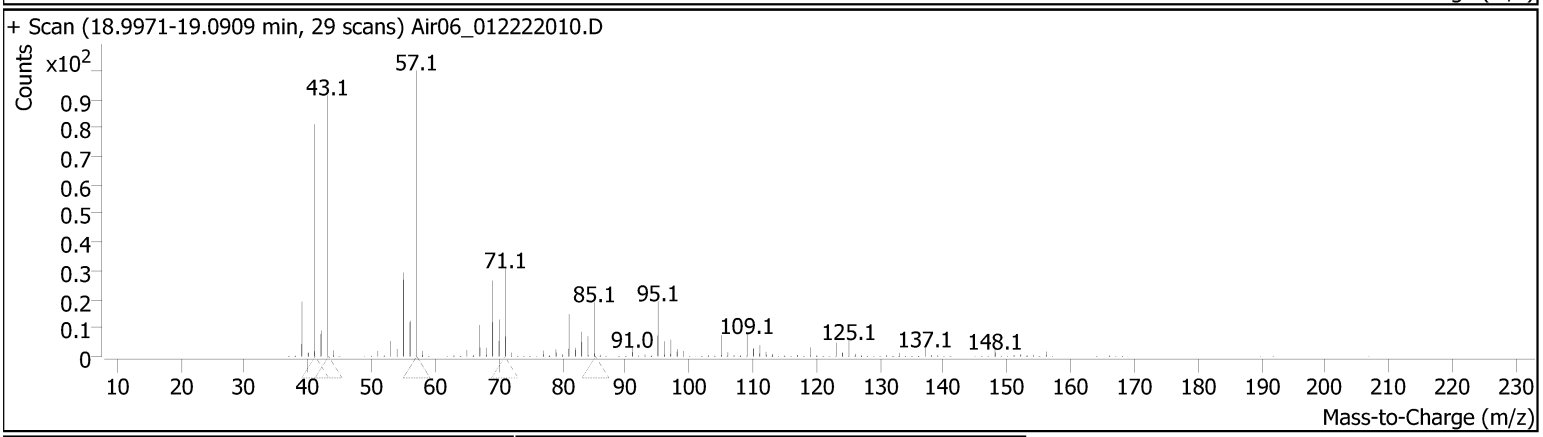



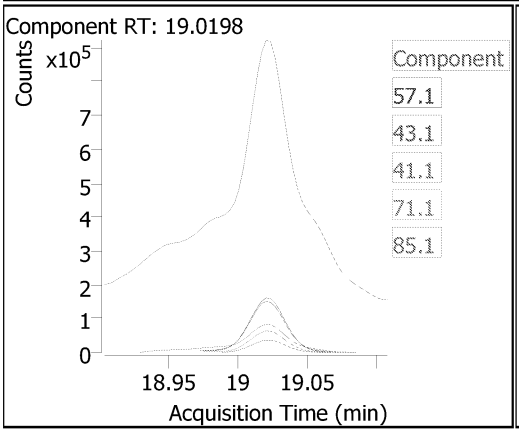



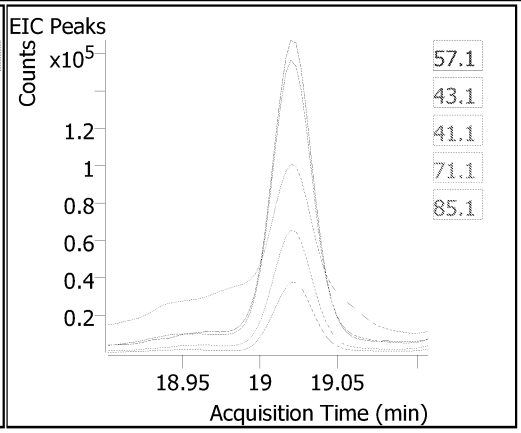
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.0198 | Undecane | 3791840.9 | 94.4 | 1120-21-4 | C11H24 | 8.204 |



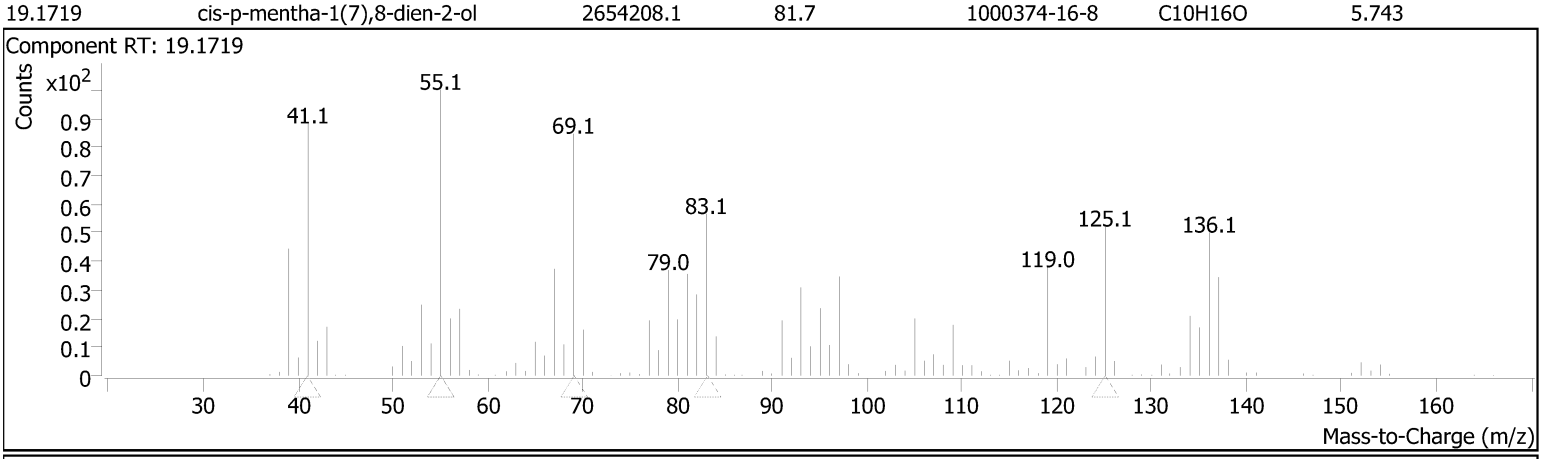



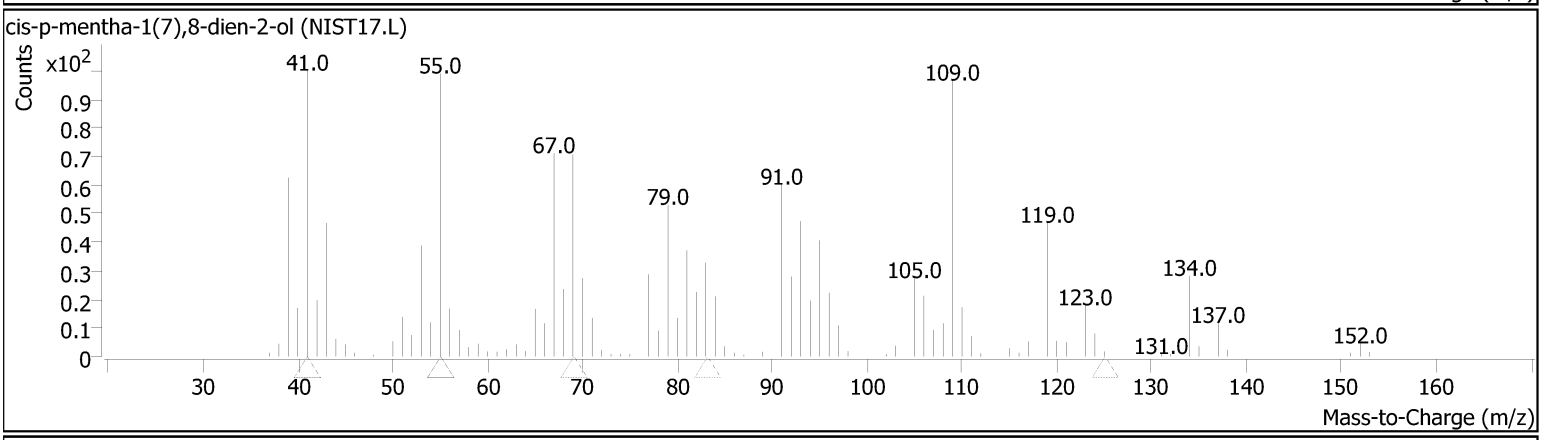



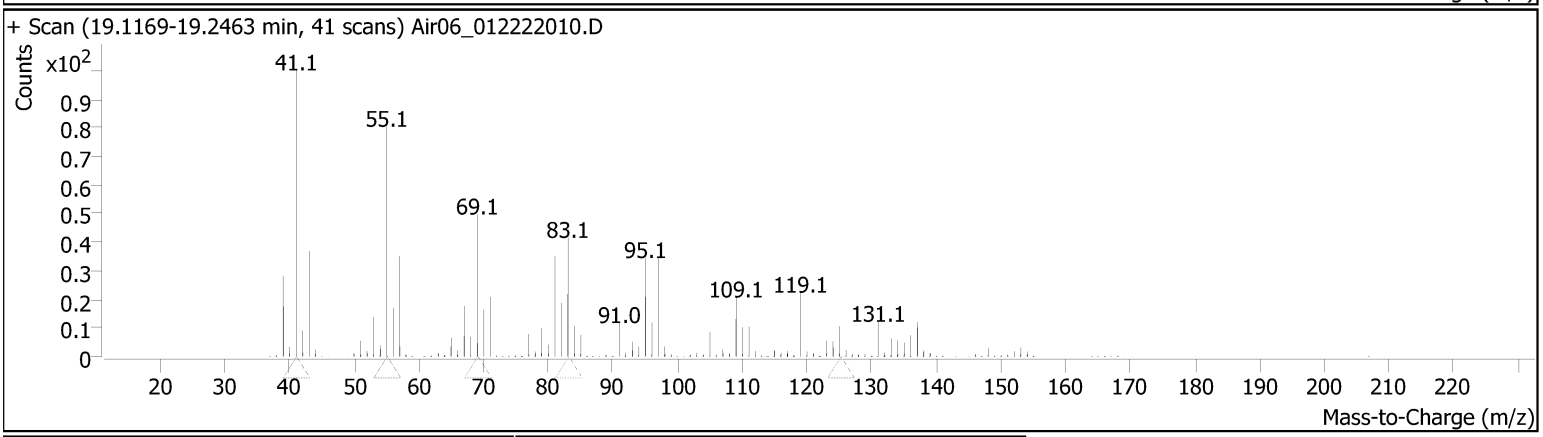



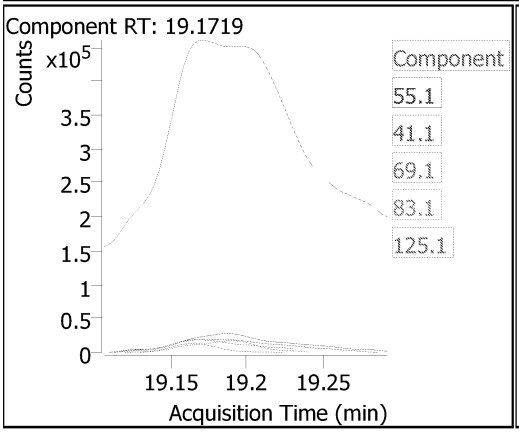


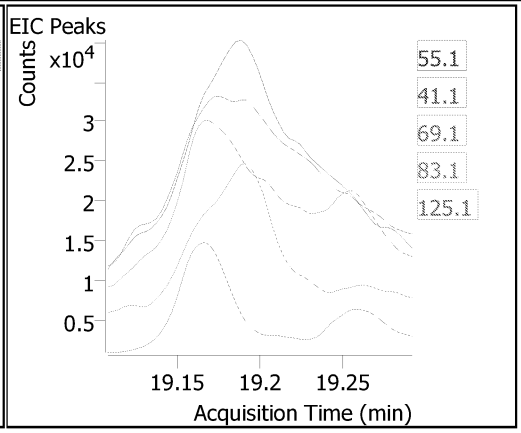

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.1719 | cis-p-mentha-1(7),8-dien-2-ol | 2654208.1 | 81.7 | 1000374-16-8 | C10H16O | 5.743 |

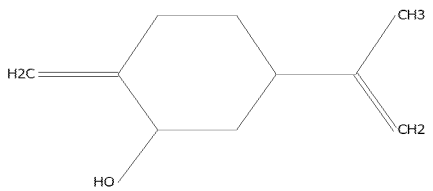


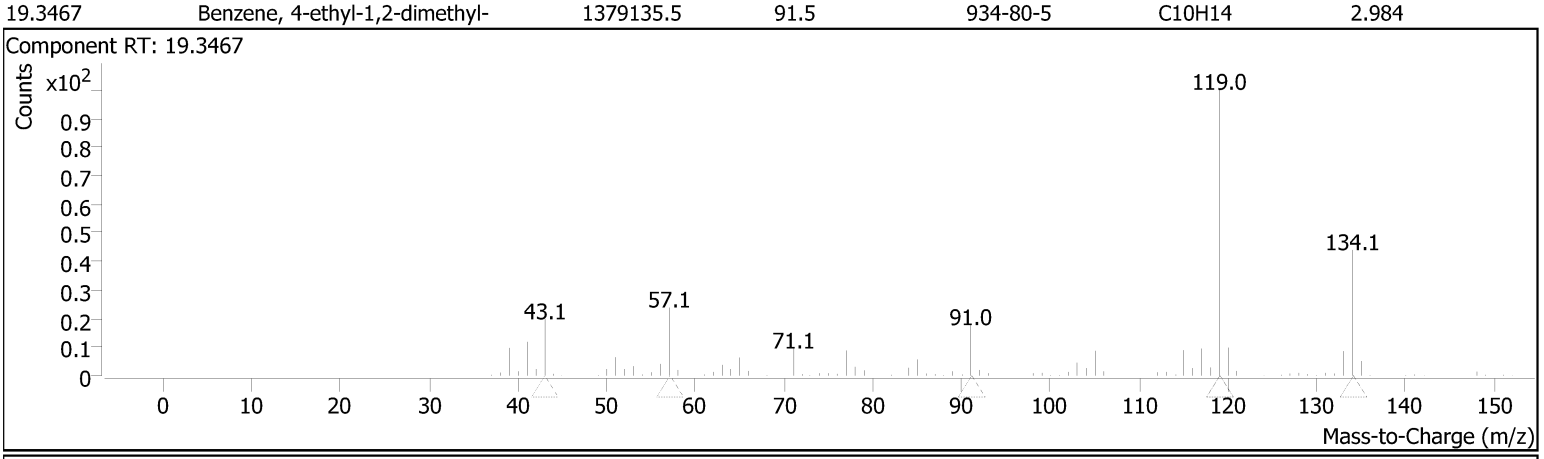



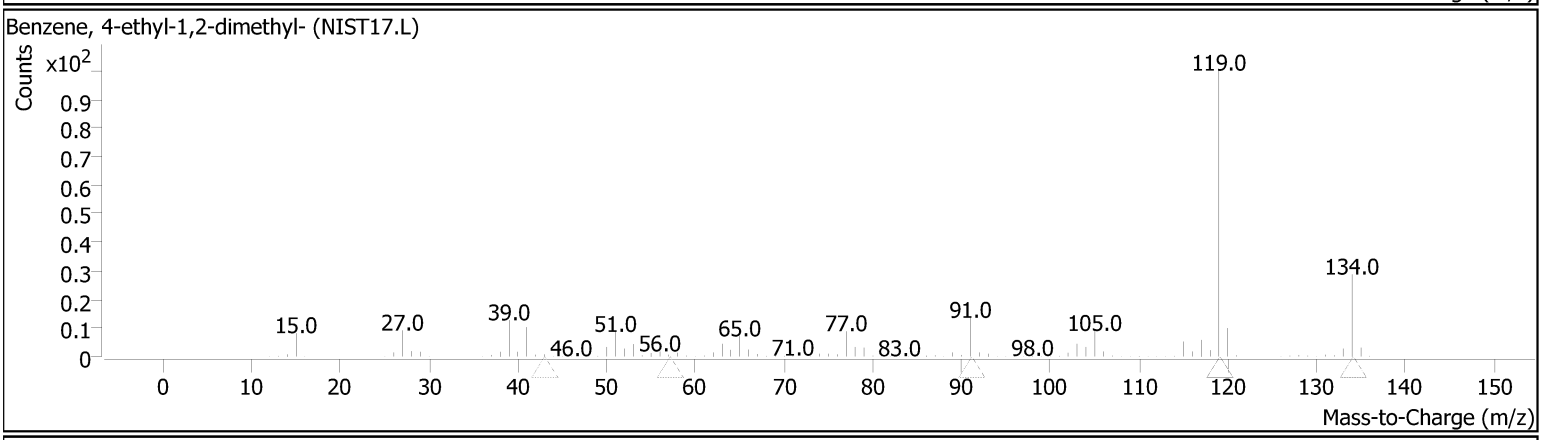



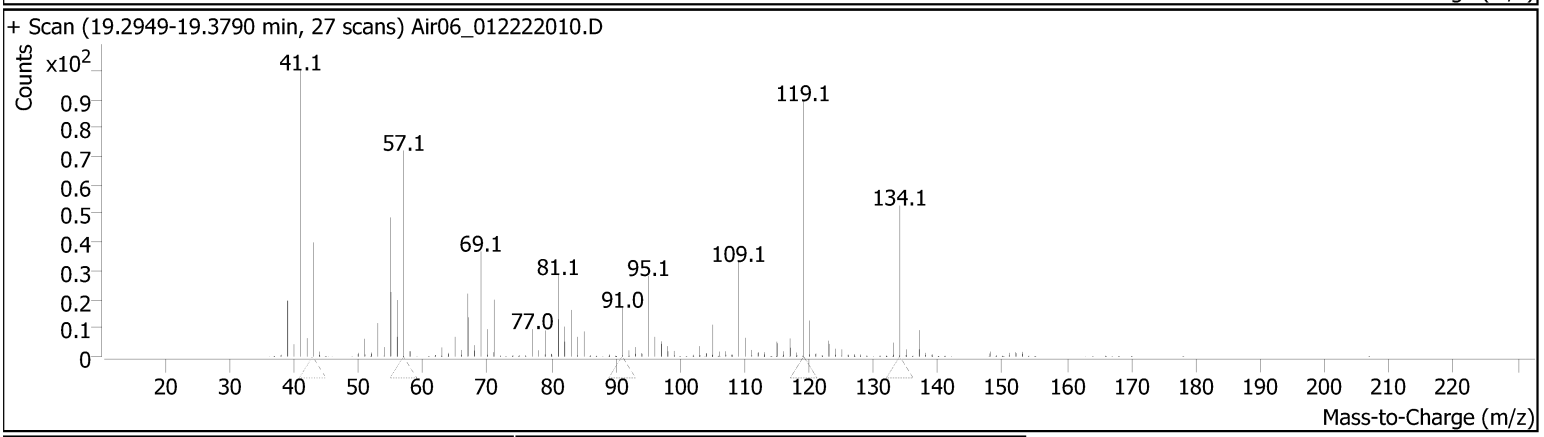



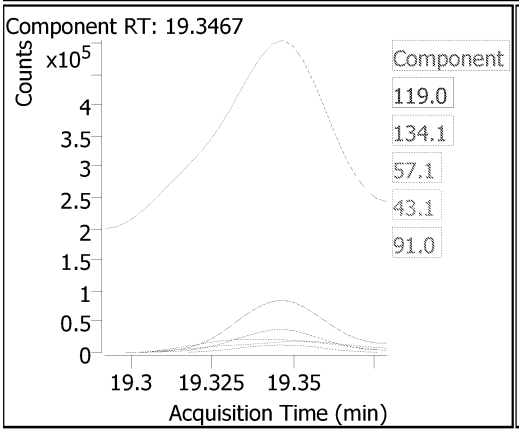



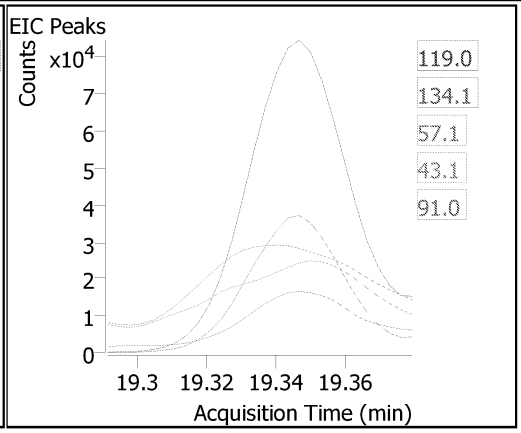
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.3467 | Benzene, 4-ethyl-1,2-dimethyl- | 1379135.5 | 91.5 | 934-80-5 | C10H14 | 2.984 |

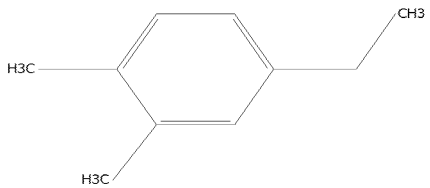


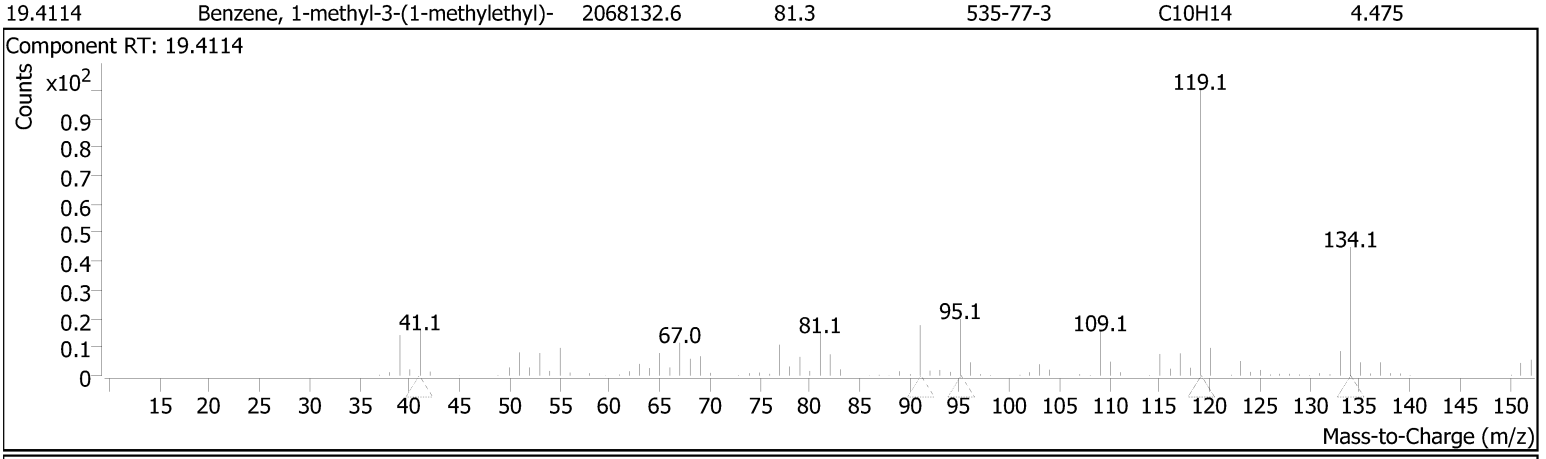



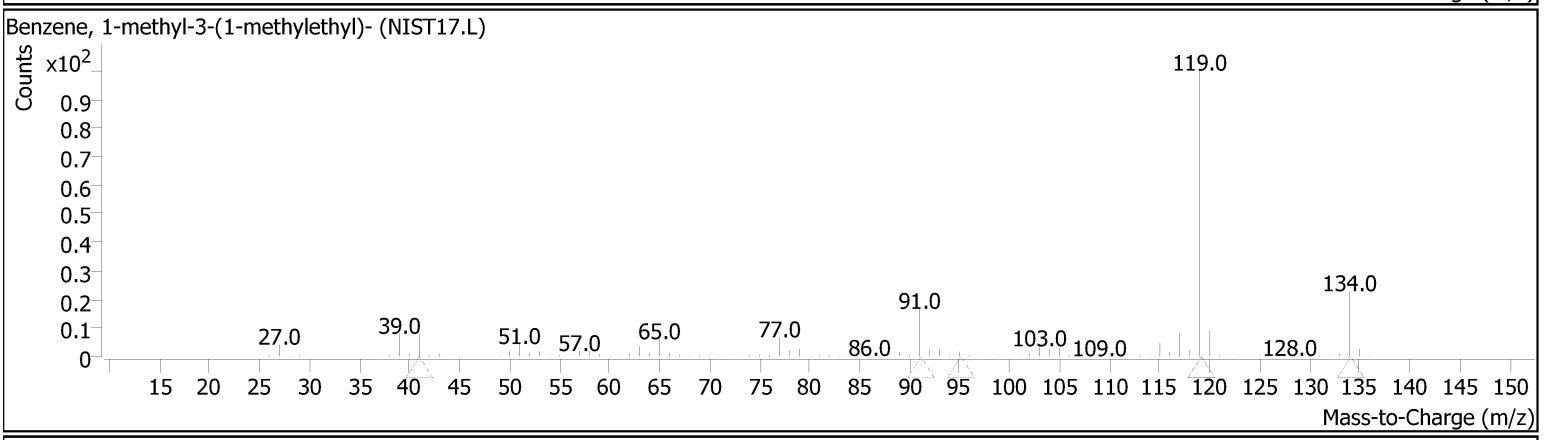



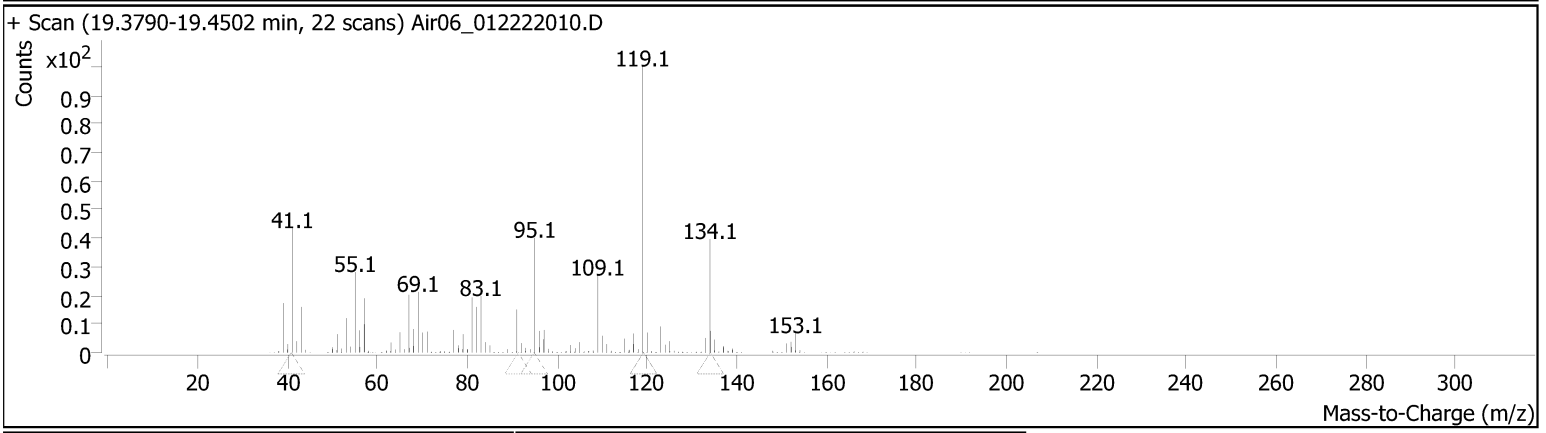



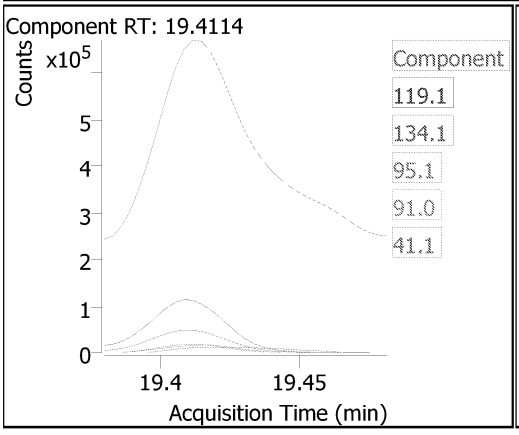



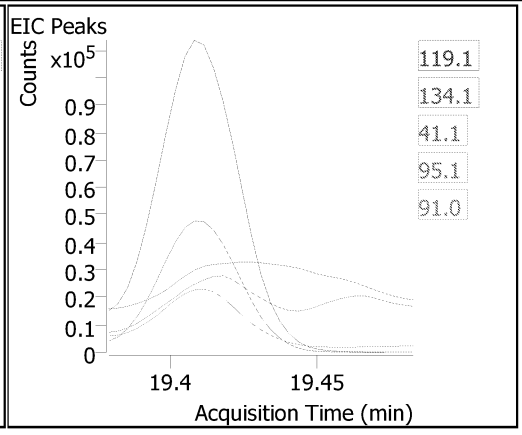
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.4114 | Benzene, 1-methyl-3-(1-methylethyl)- | 2068132.6 | 81.3 | 535-77-3 | C10H14 | 4.475 |

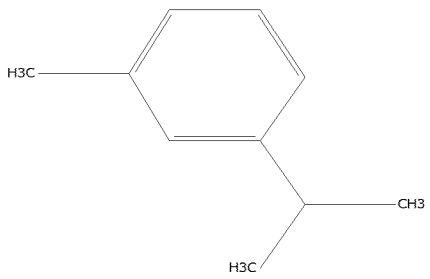


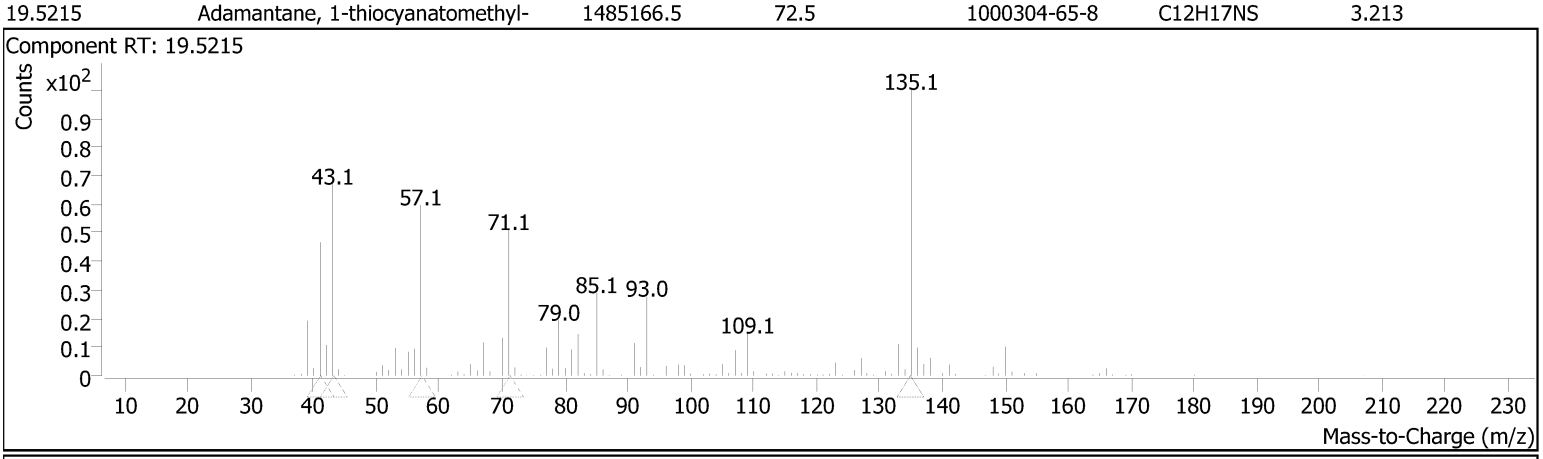



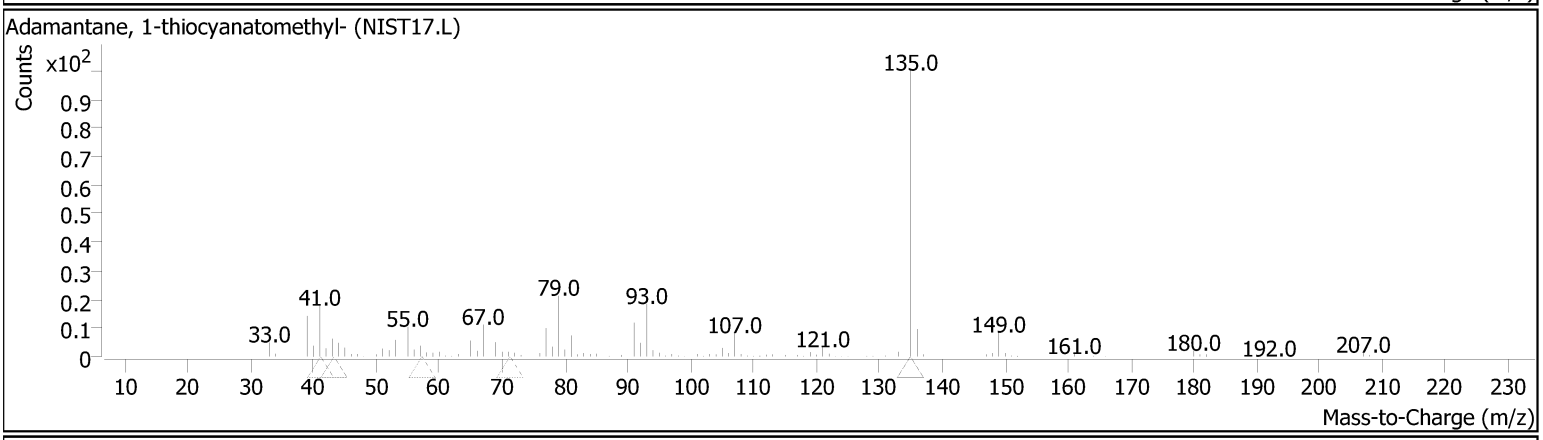



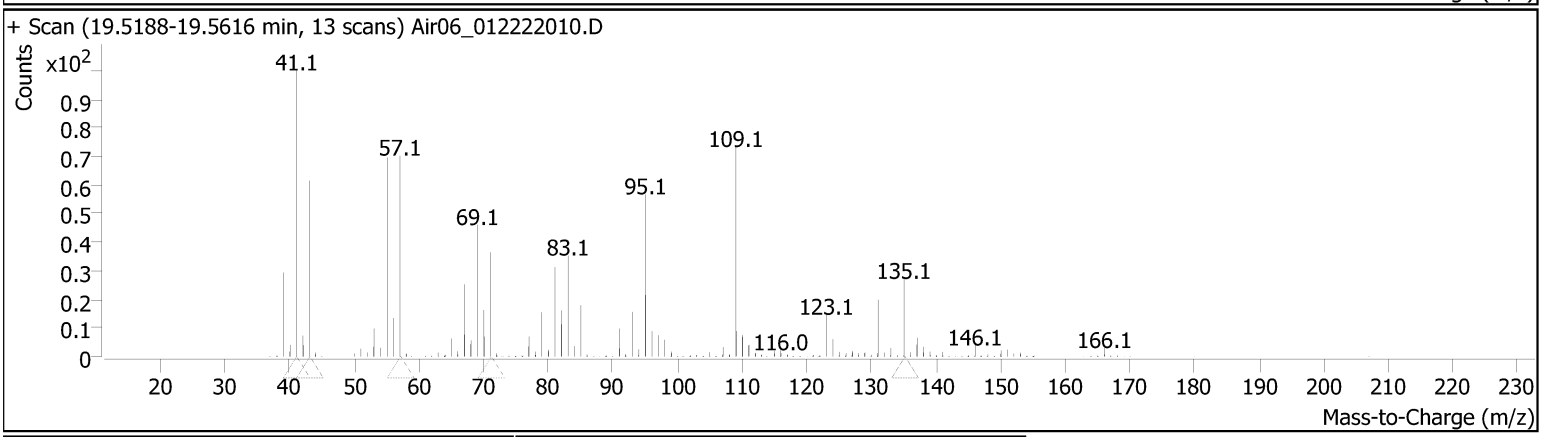
# Library Search Results - NonTarget Hits with Details

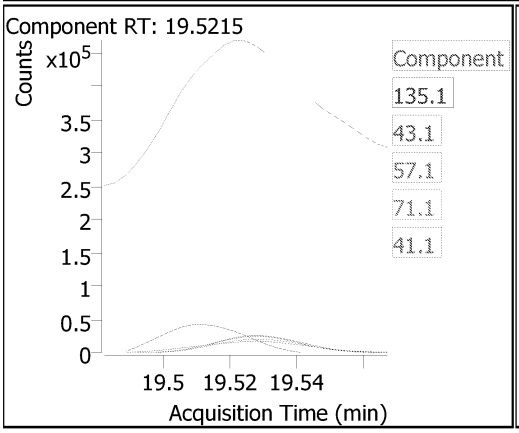
Agilent Technologies

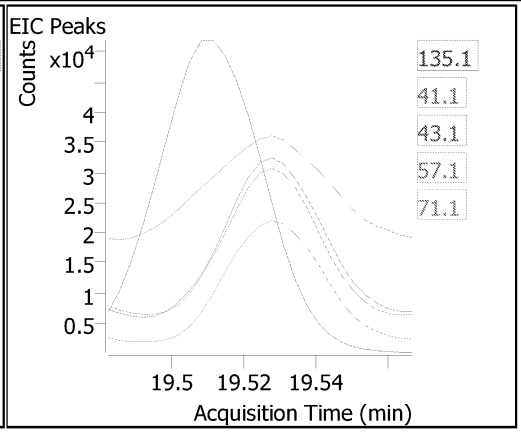
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5215 | Adamantane, 1-thiocyanatomethyl- | 1485166.5 | 72.5 | 1000304-65-8 | C12H17NS | 3.213 |

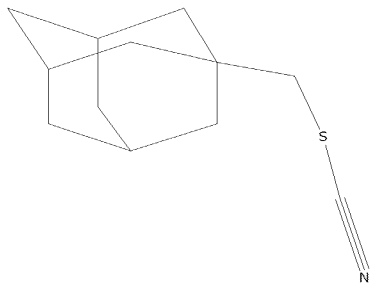


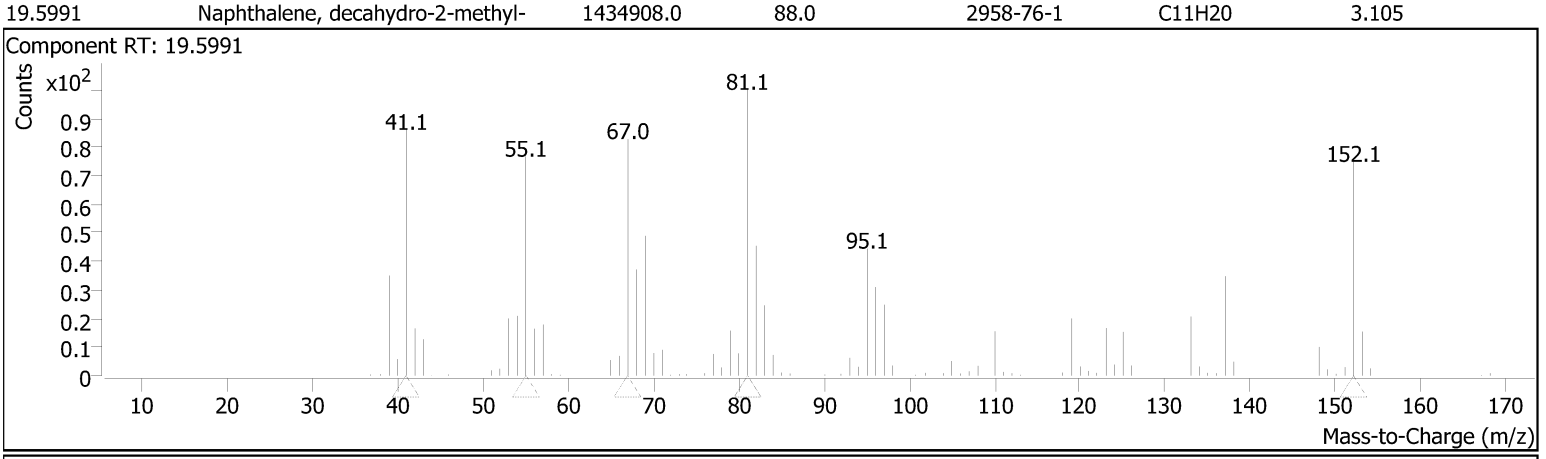



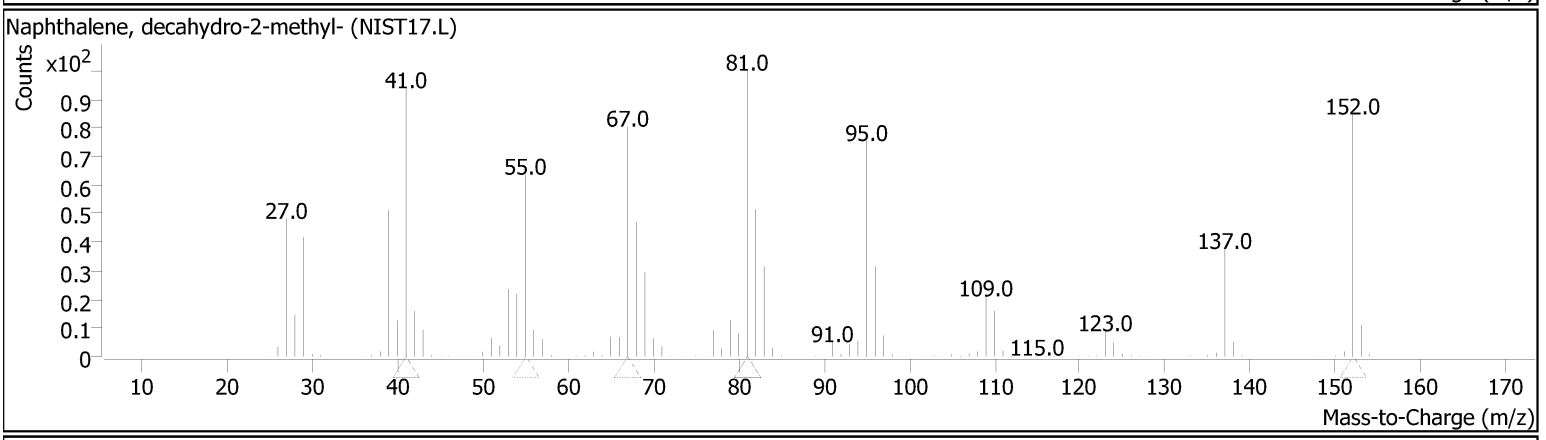



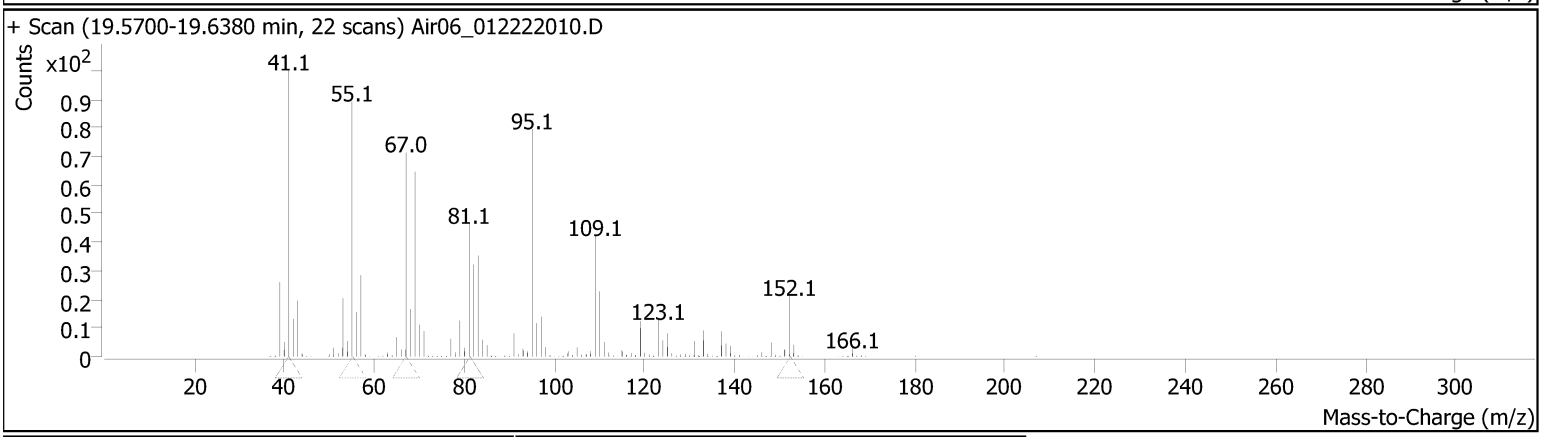
# Library Search Results - NonTarget Hits with Details

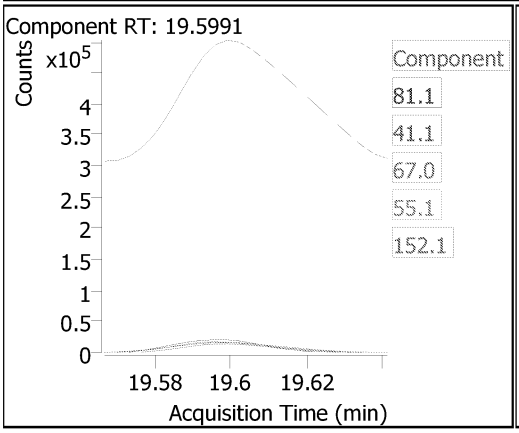
Agilent Technologies

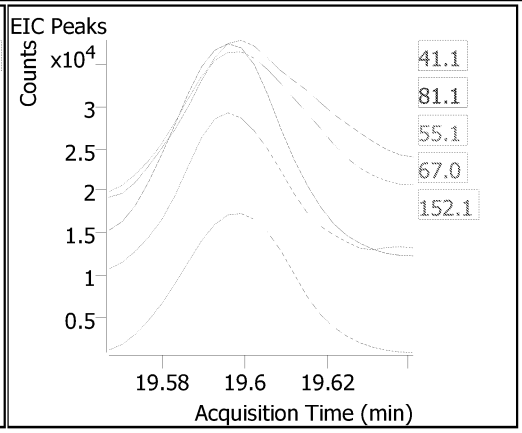
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5991 | Naphthalene, decahydro-2-methyl- | 1434908.0 | 88.0 | 2958-76-1 | C11H20 | 3.105 |

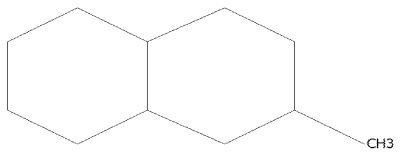


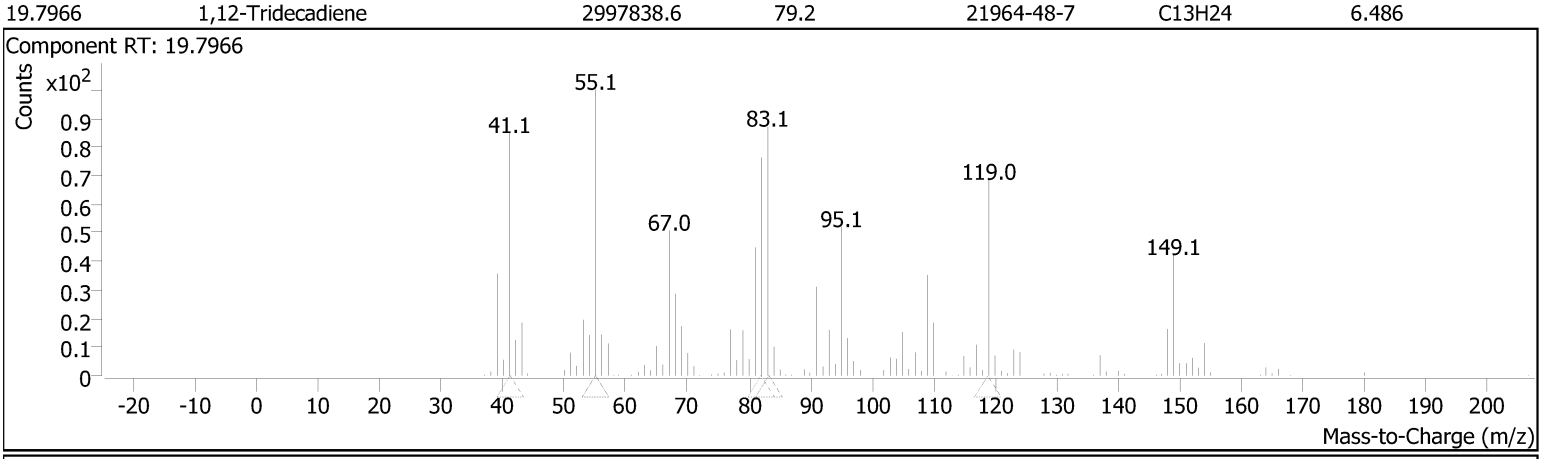



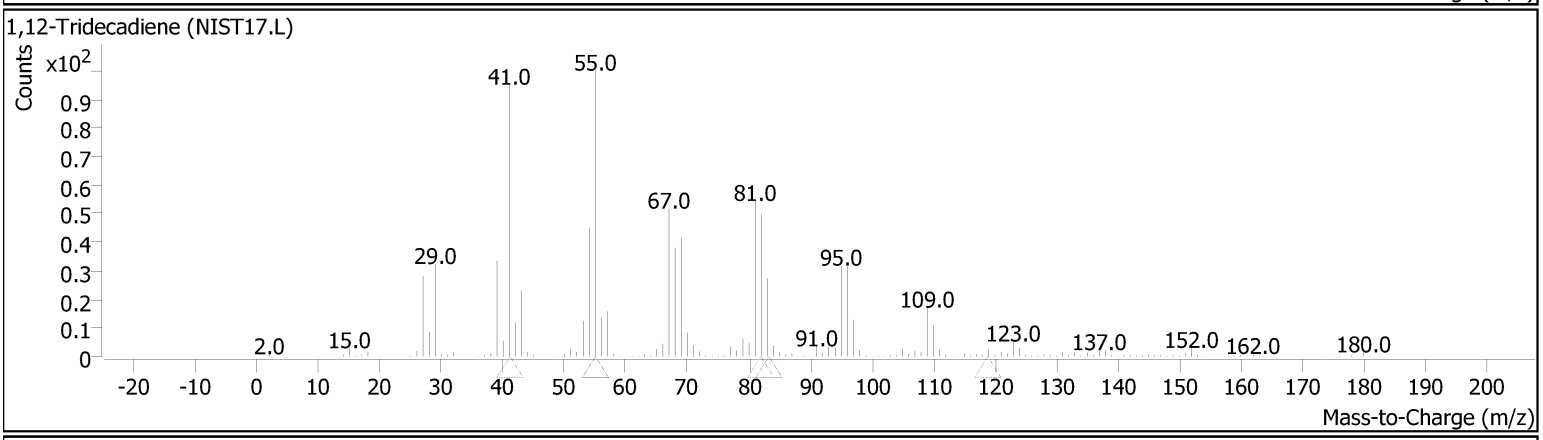



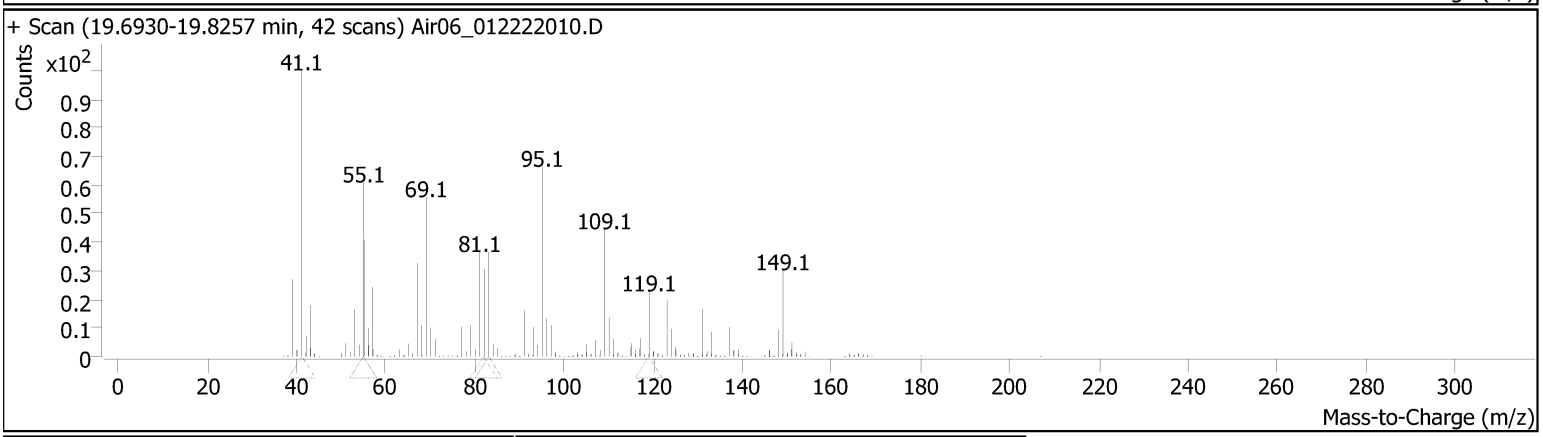



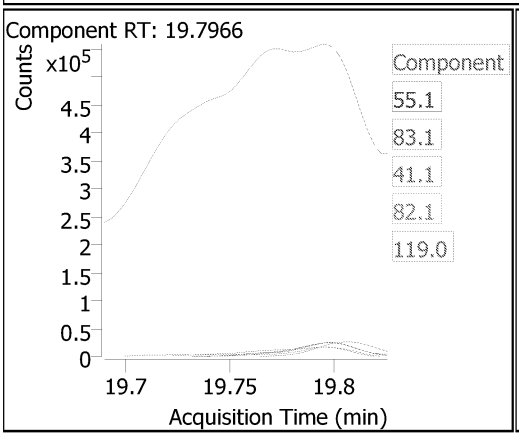



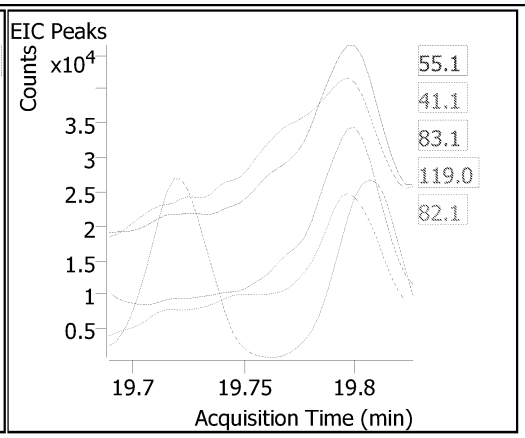
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.7966 | 1,12-Tridecadiene | 2997838.6 | 79.2 | 21964-48-7 | C13H24 | 6.486 |



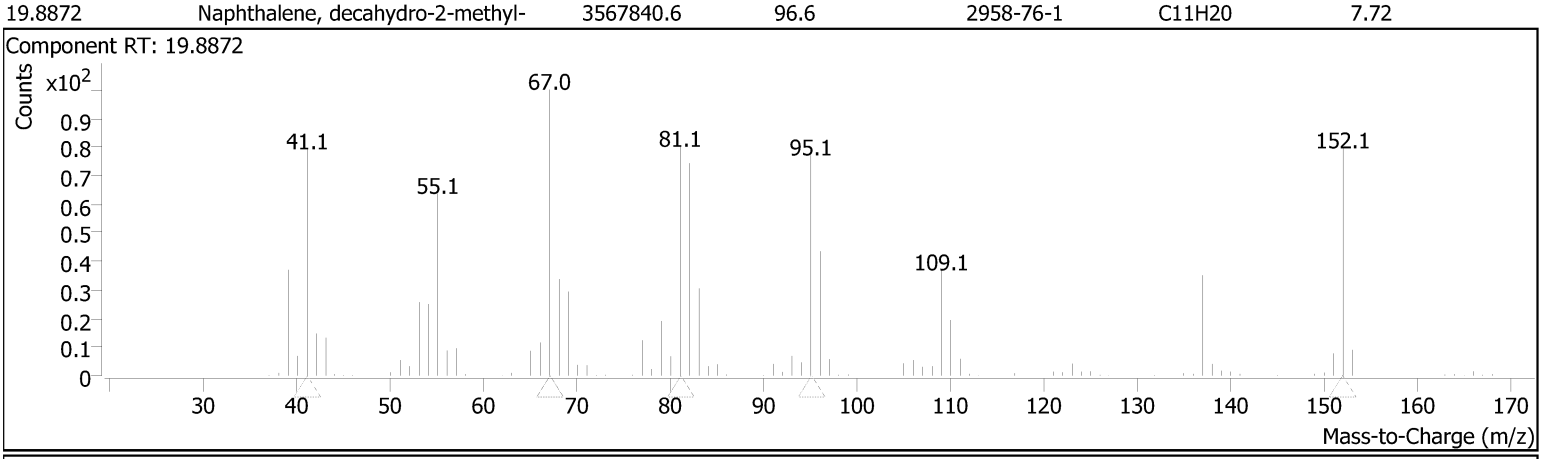



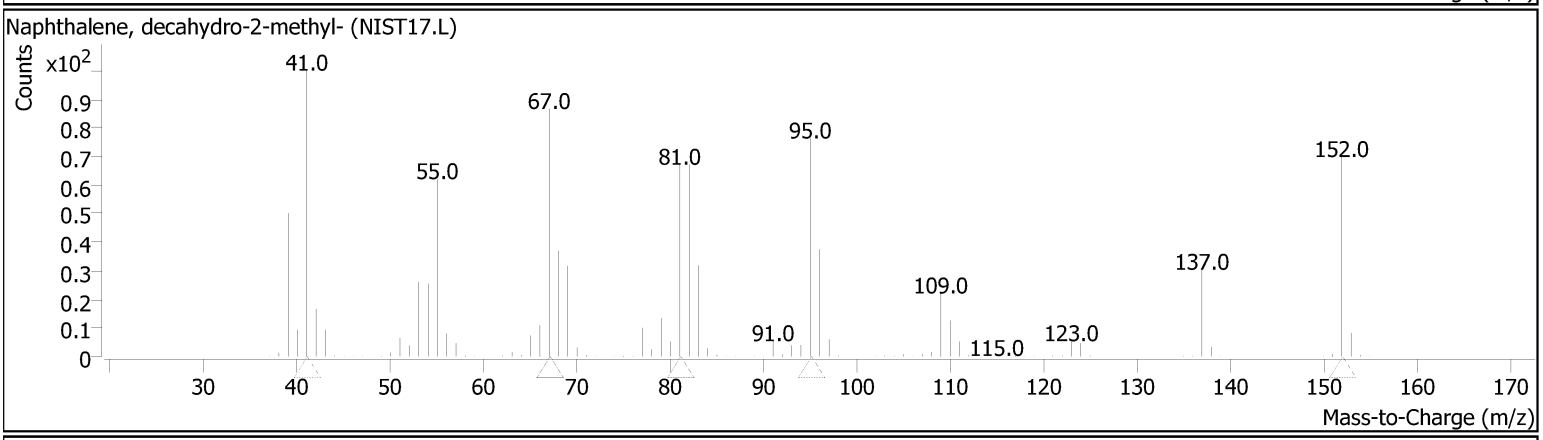



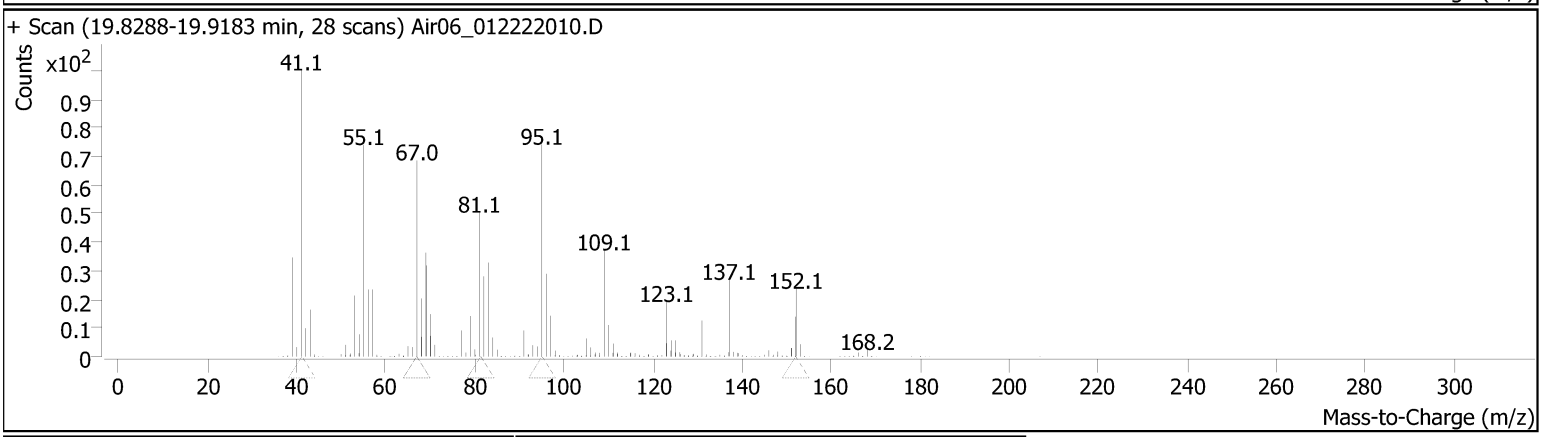



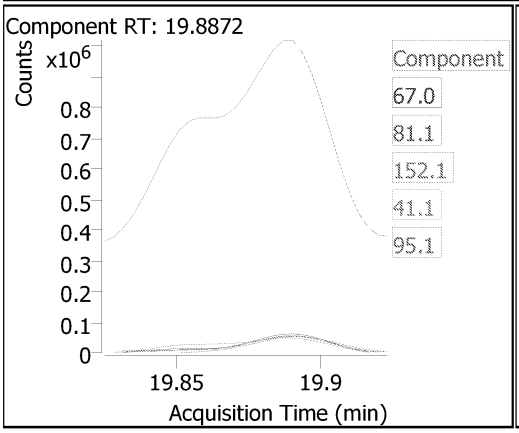


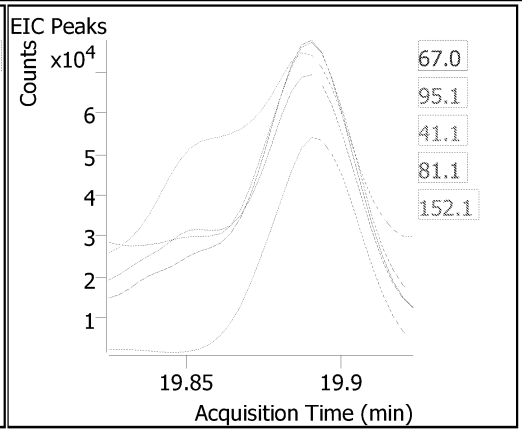

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.8872 | Naphthalene, decahydro-2-methyl- | 3567840.6 | 96.6 | 2958-76-1 | C11H20 | 7.72 |

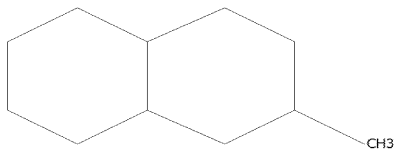


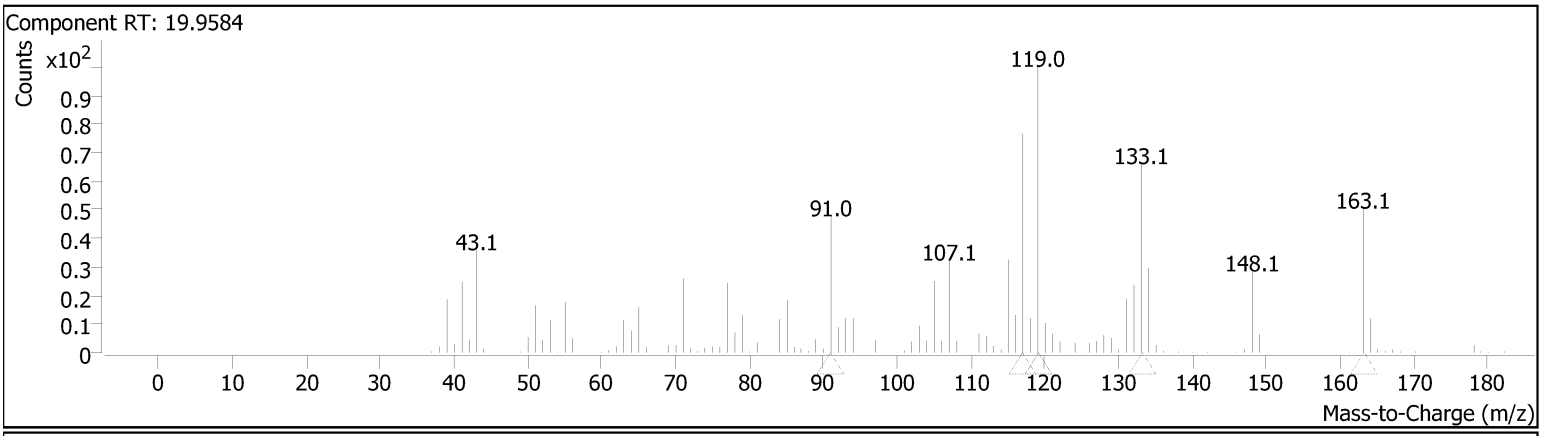



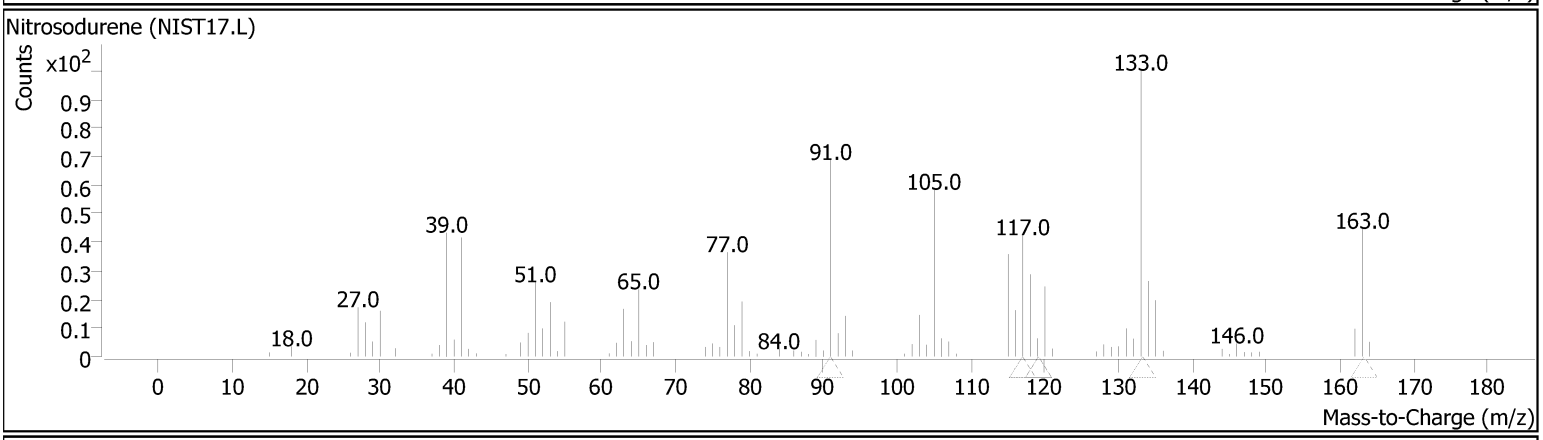



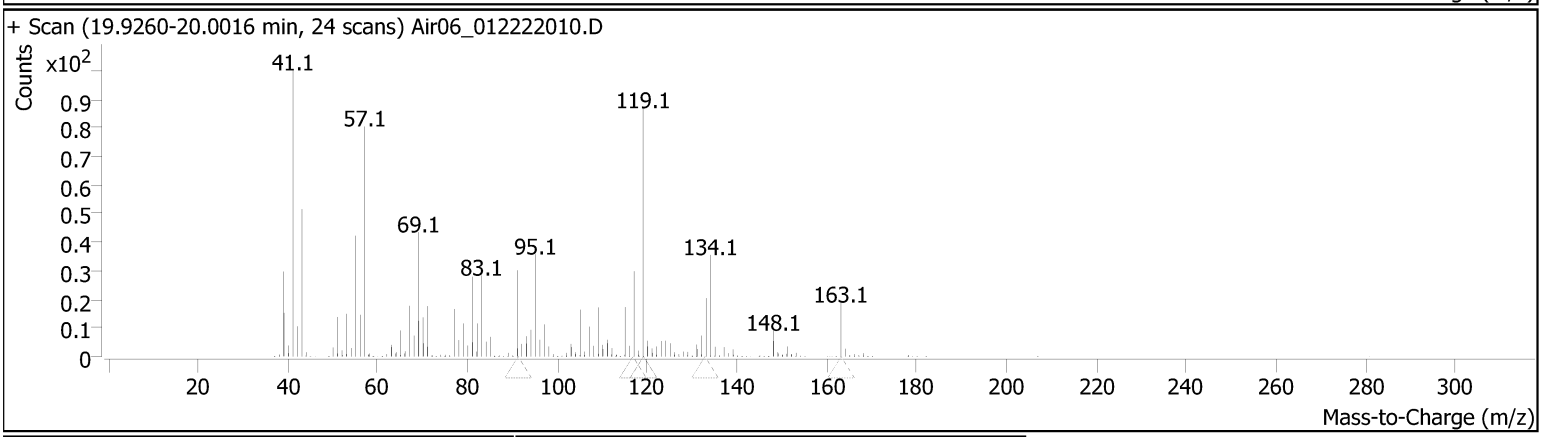



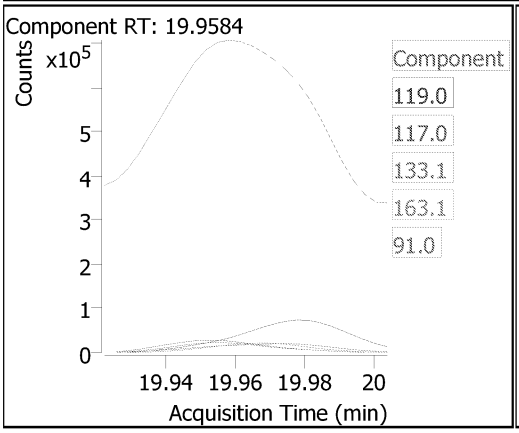



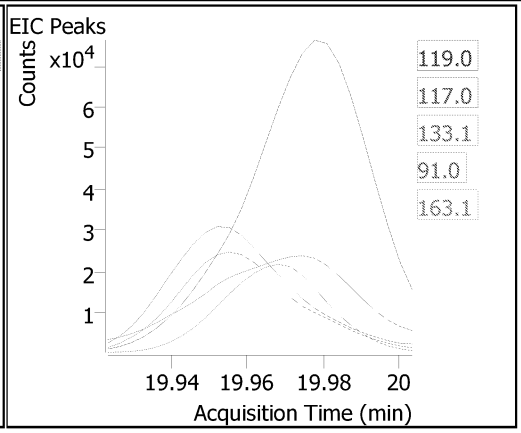
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.9584 | Nitrosodurene | 2264702.9 | 78.3 | 1000430-49-9 | C10H13NO | 4.9 |

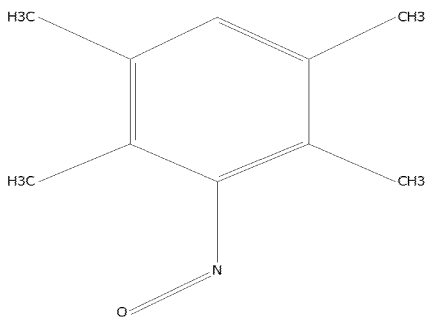


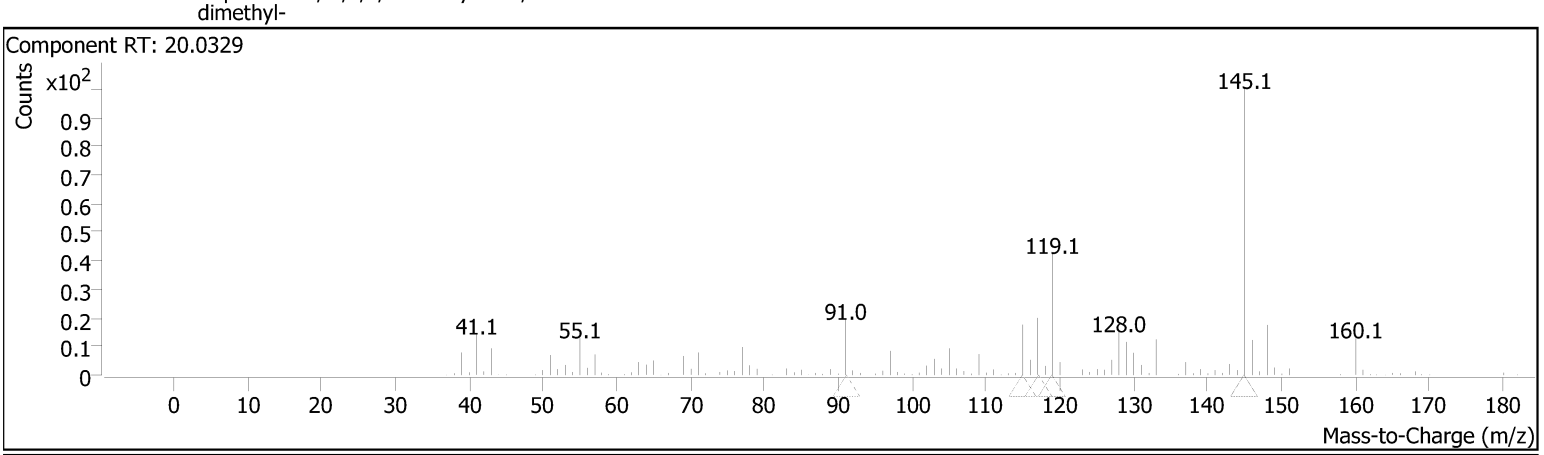



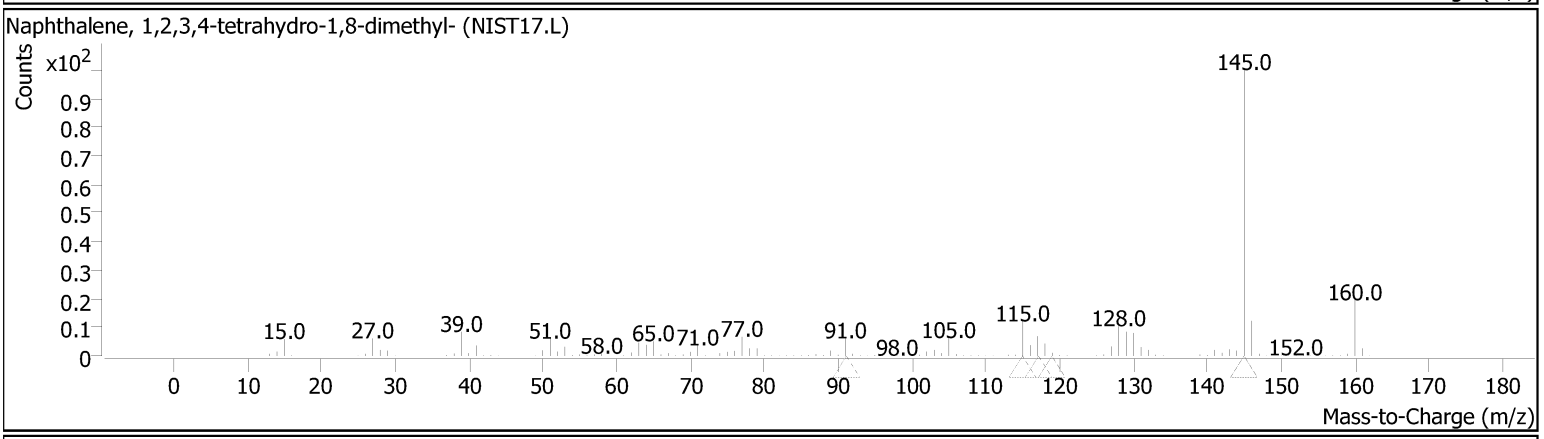



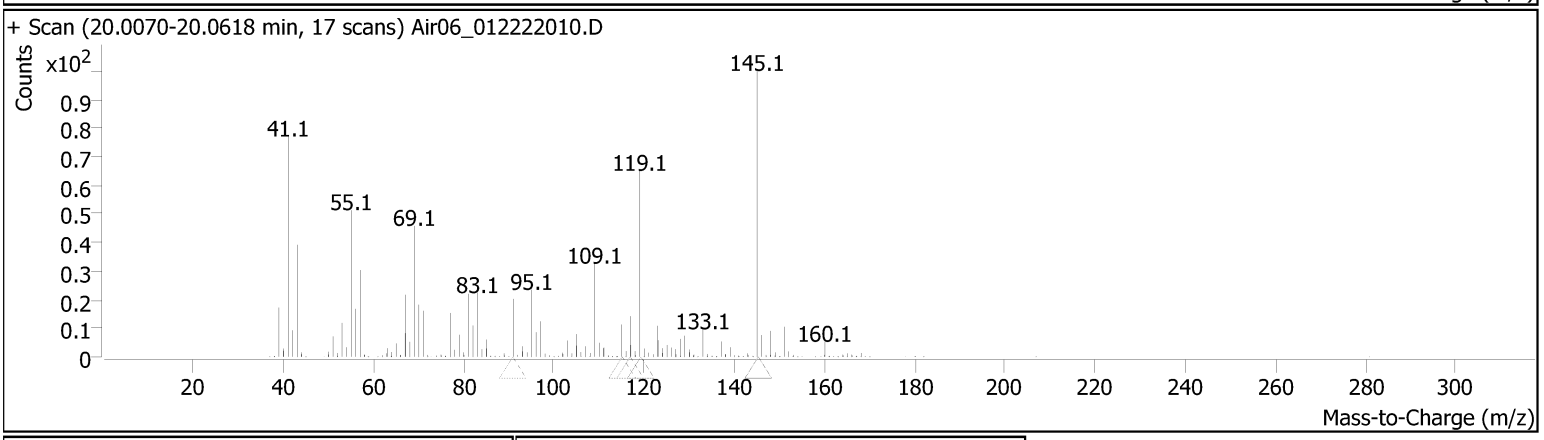
# Library Search Results - NonTarget Hits with Details

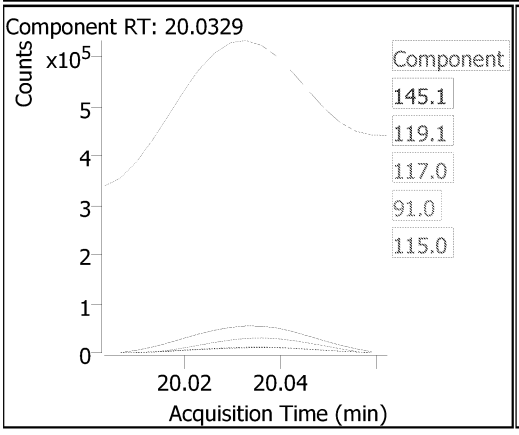
Agilent Technologies

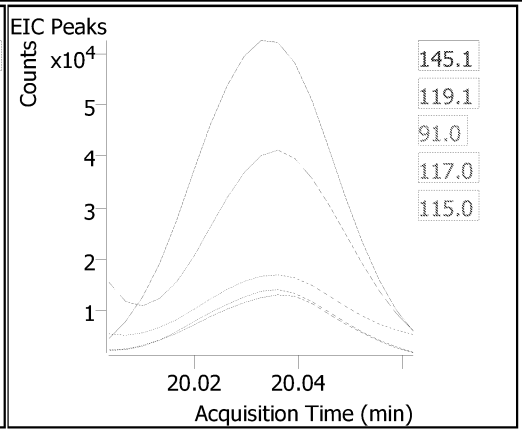
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0329 | Naphthalene, 1,2,3,4-tetrahydro-1,8-dimethyl- | 1497561.8 | 81.6 | 25419-33-4 | C12H16 | 3.24 |

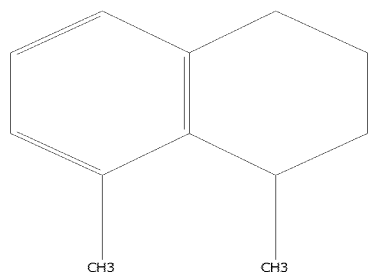


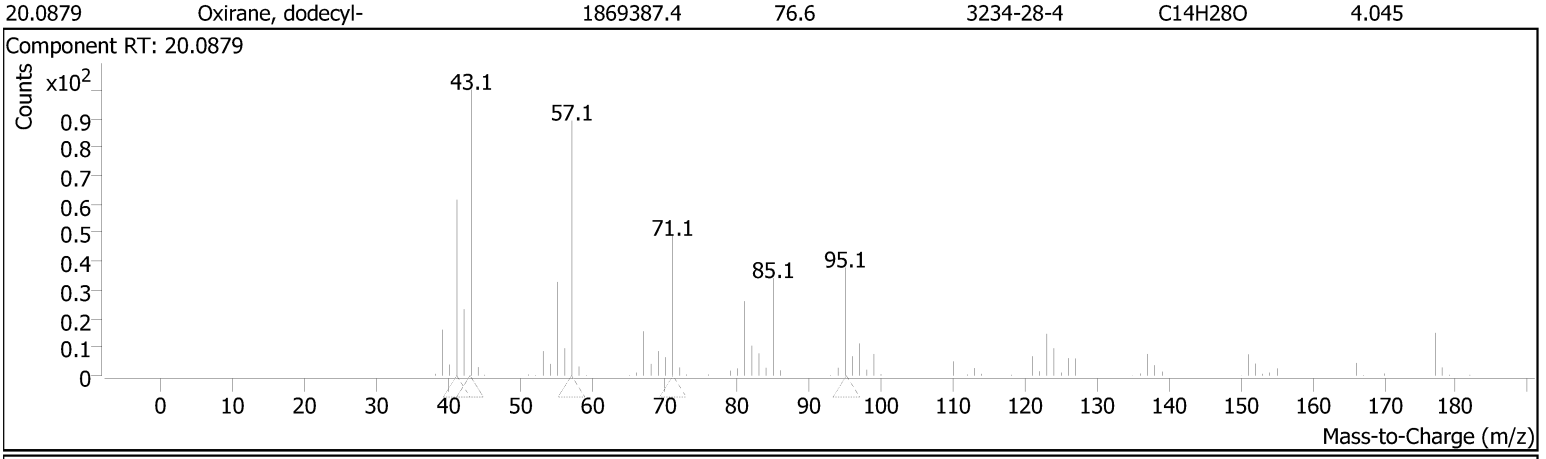



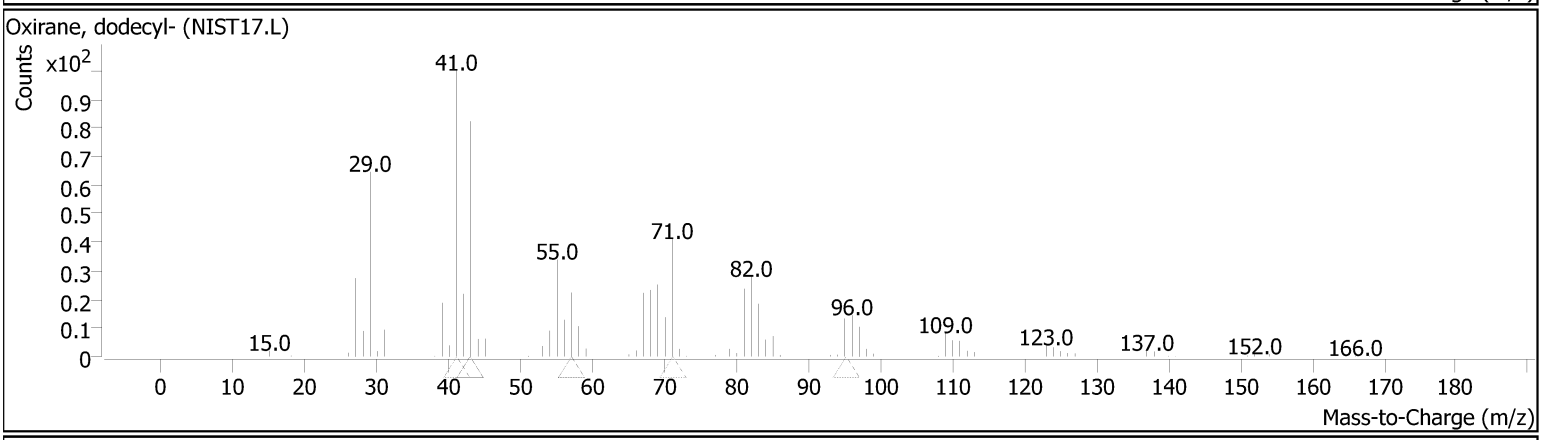



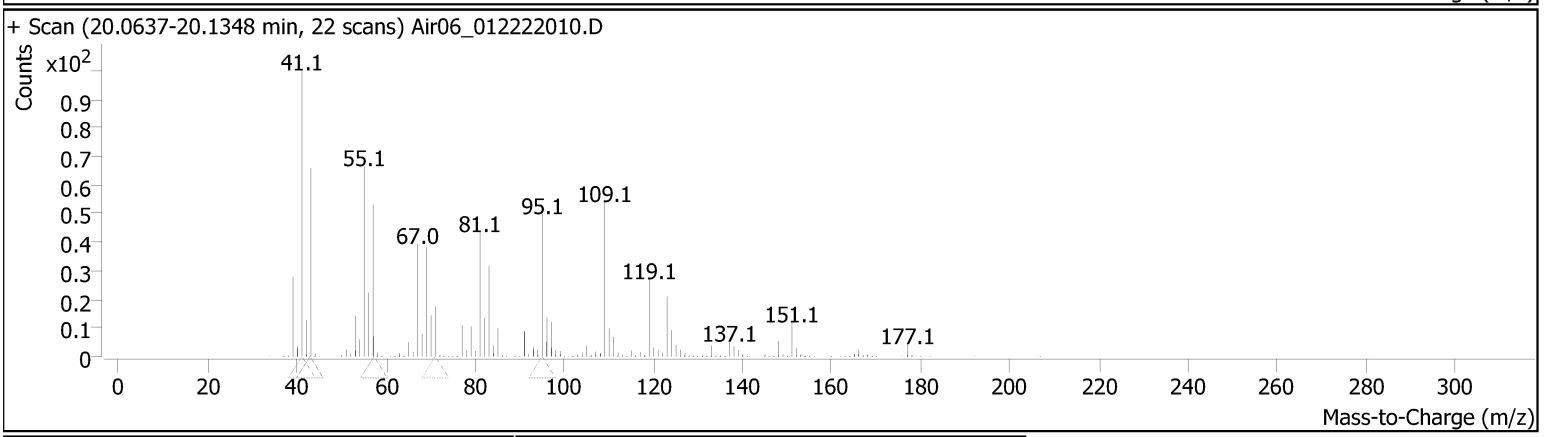



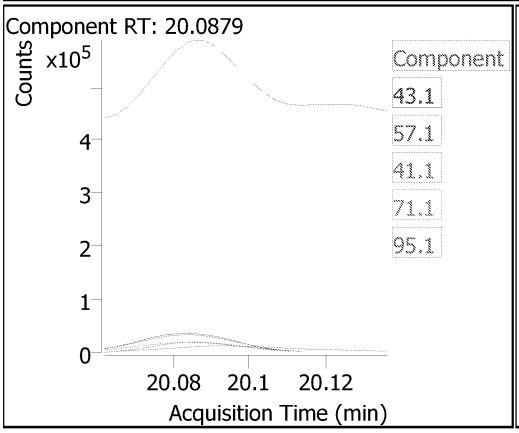



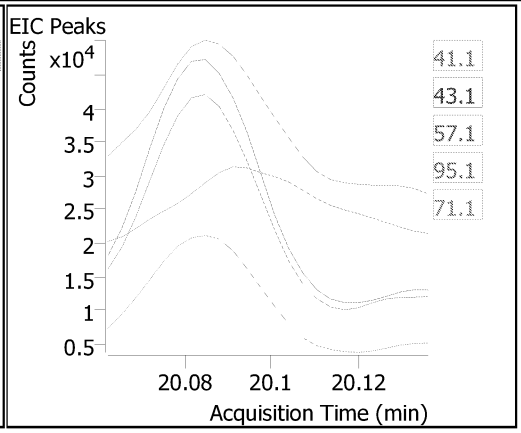
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0879 | Oxirane, dodecyl- | 1869387.4 | 76.6 | 3234-28-4 | C14H28O | 4.045 |



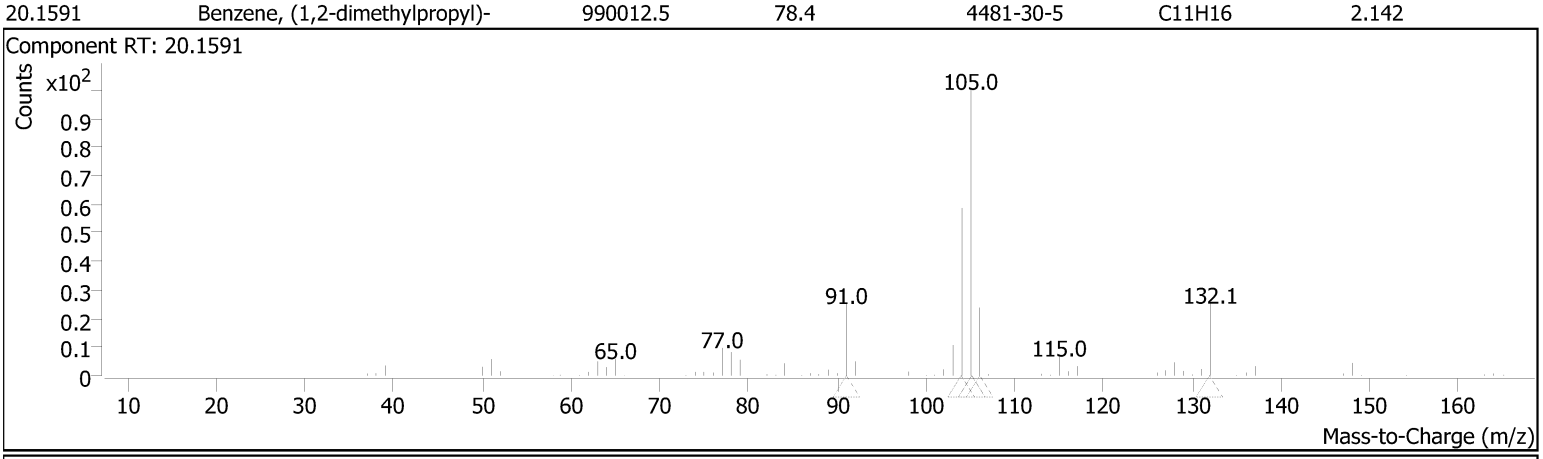



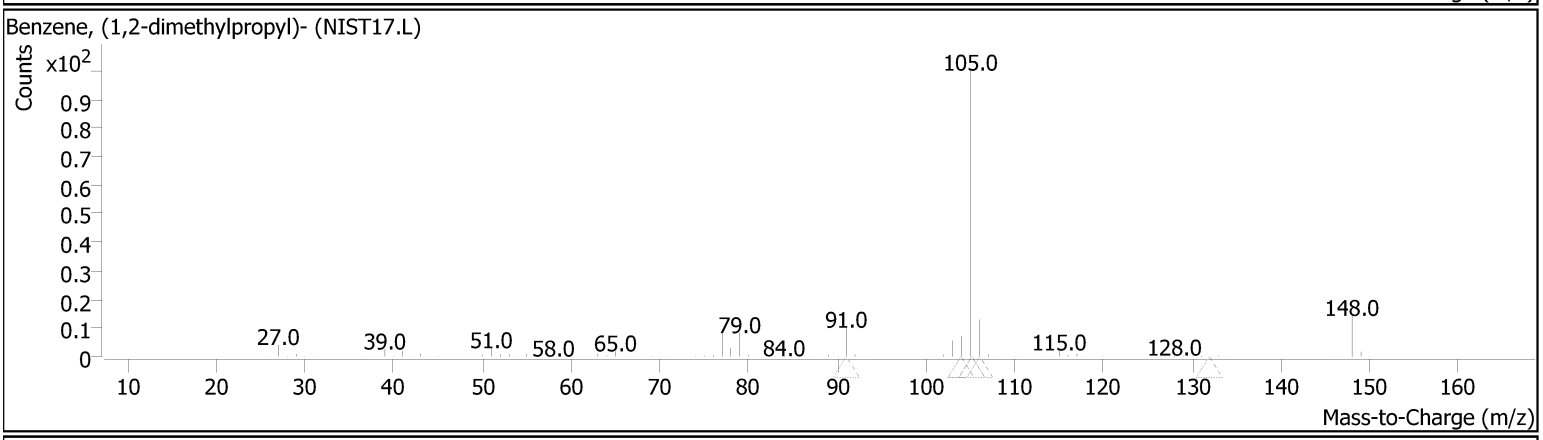



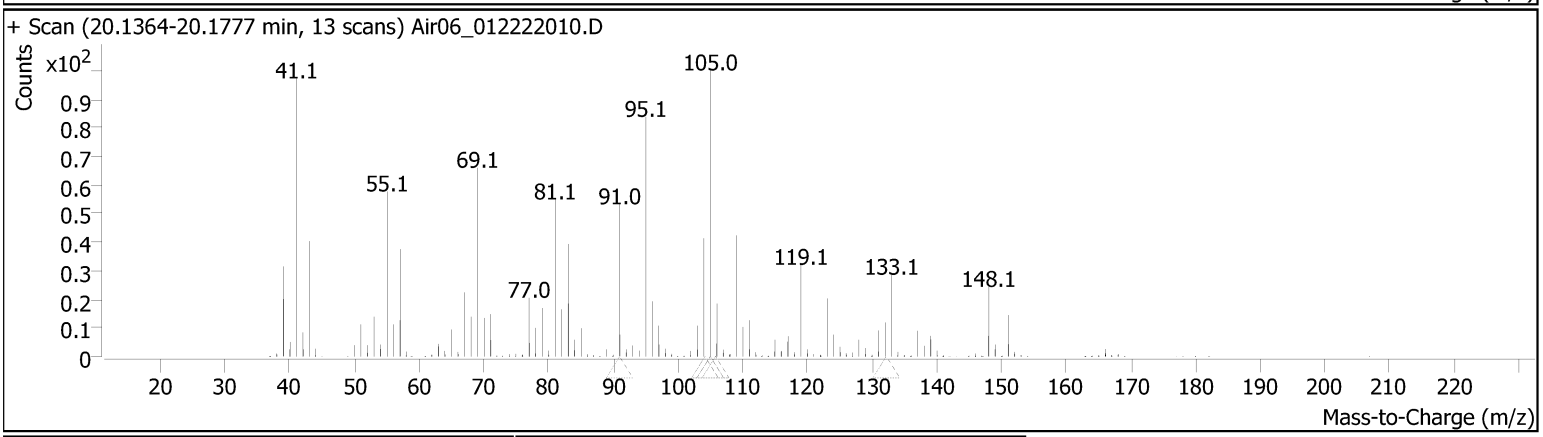



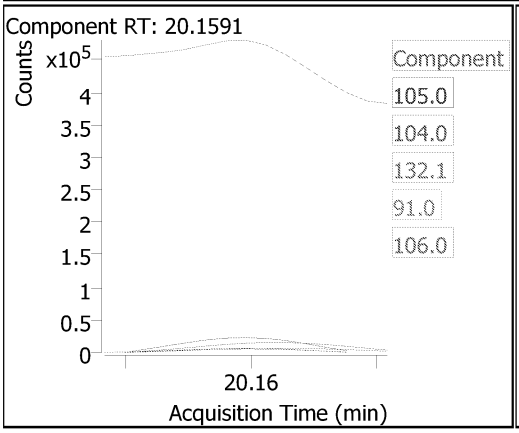


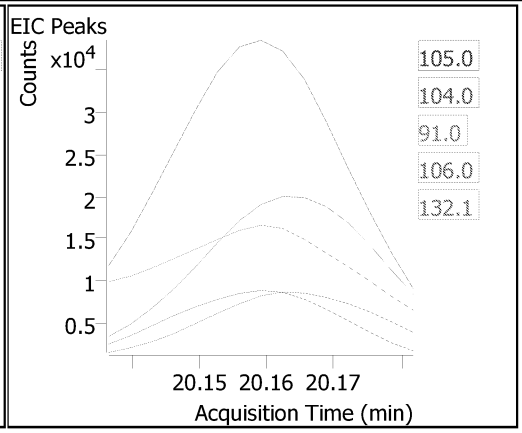

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.1591 | Benzene, (1,2-dimethylpropyl)- | 990012.5 | 78.4 | 4481-30-5 | C11H16 | 2.142 |

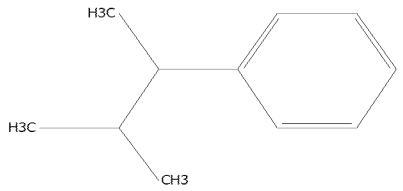


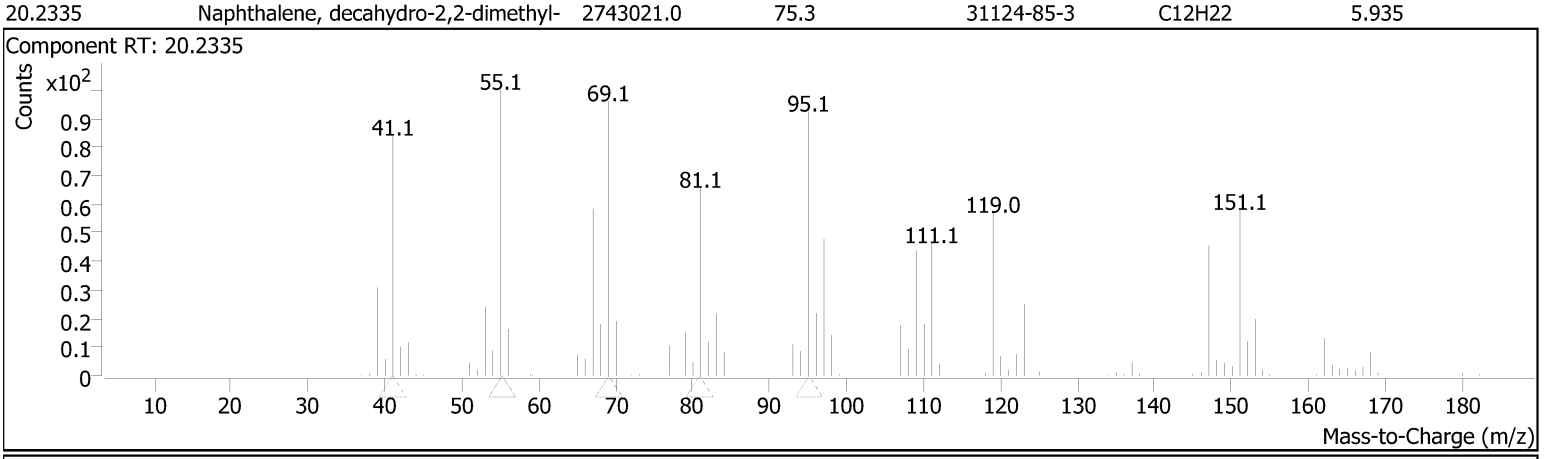



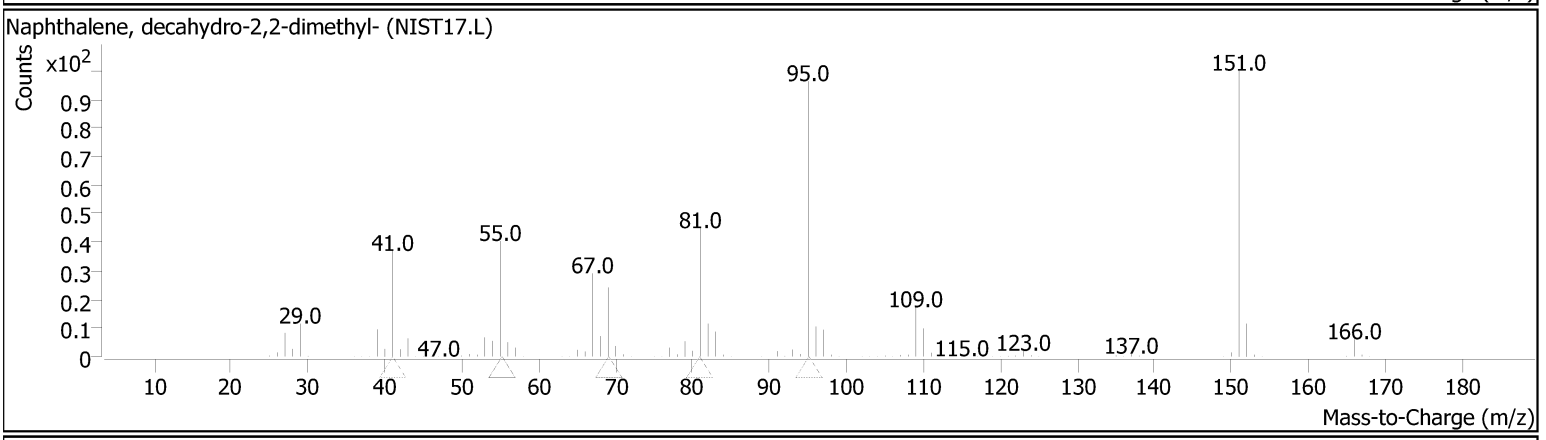



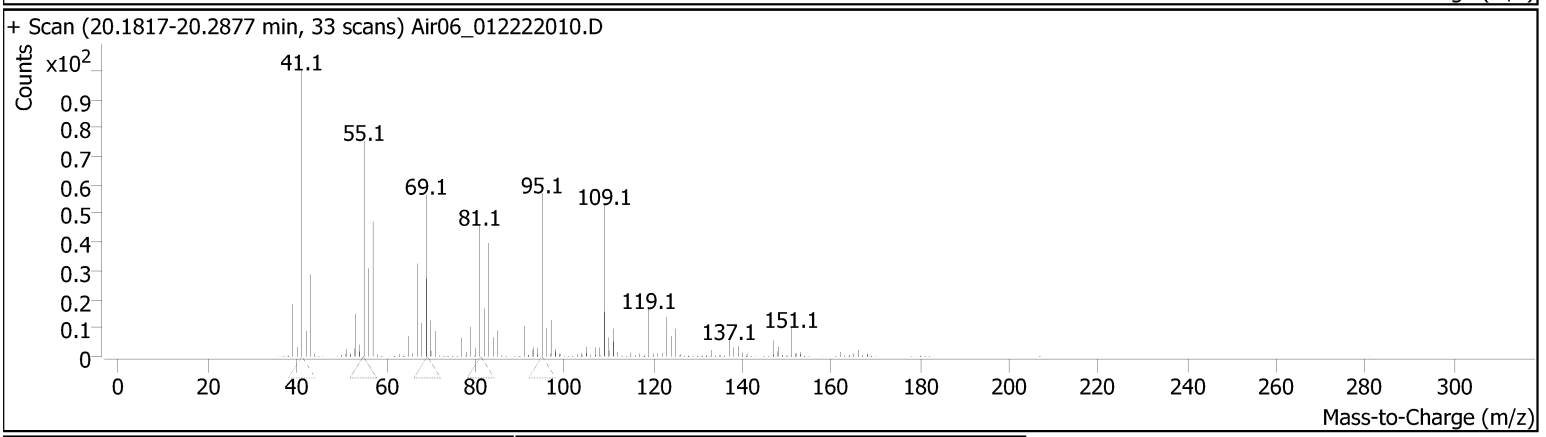
# Library Search Results - NonTarget Hits with Details

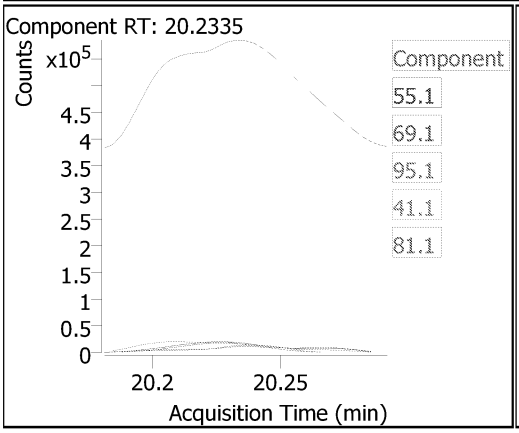
Agilent Technologies

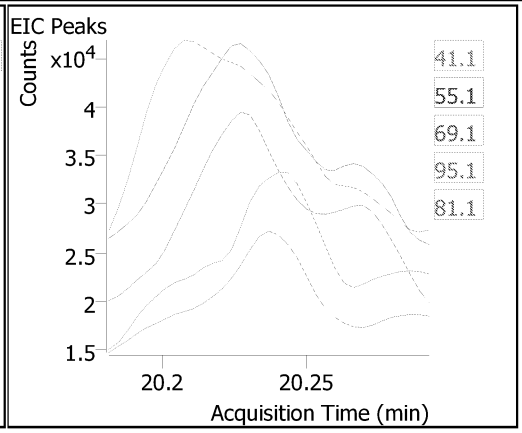
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.2335 | Naphthalene, decahydro-2,2-dimethyl- | 2743021.0 | 75.3 | 31124-85-3 | C12H22 | 5.935 |

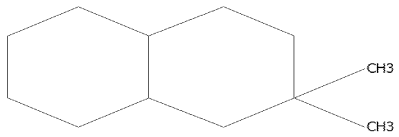


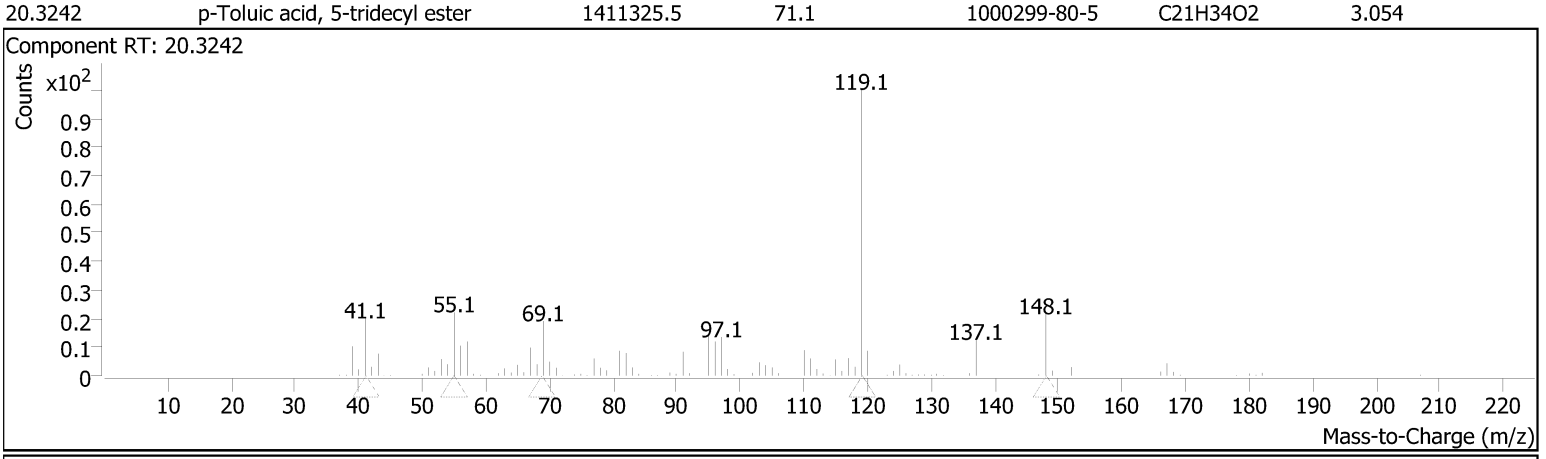



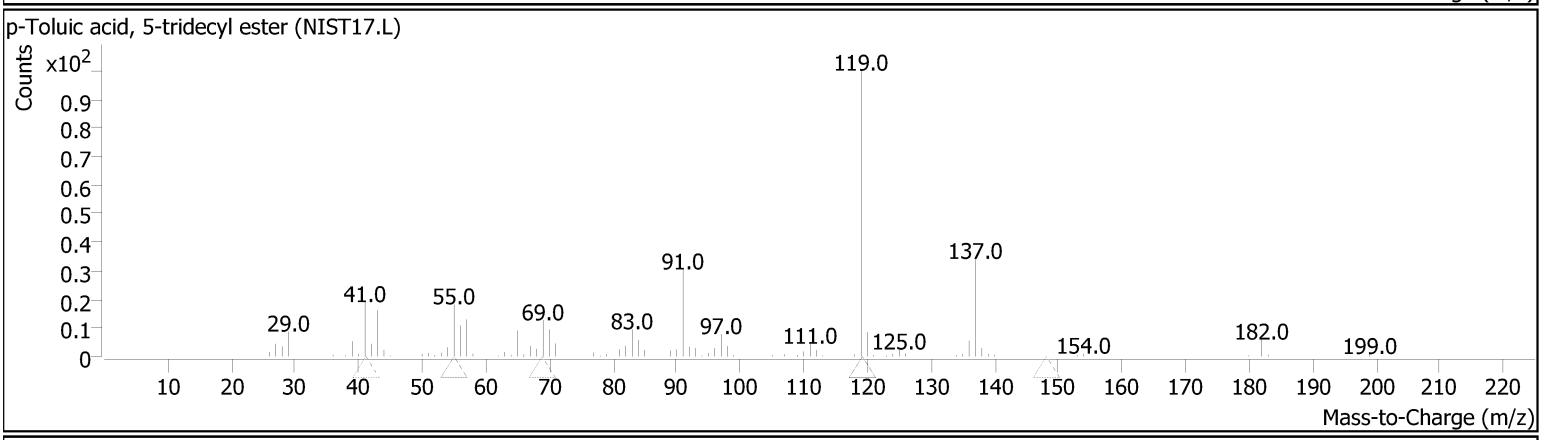



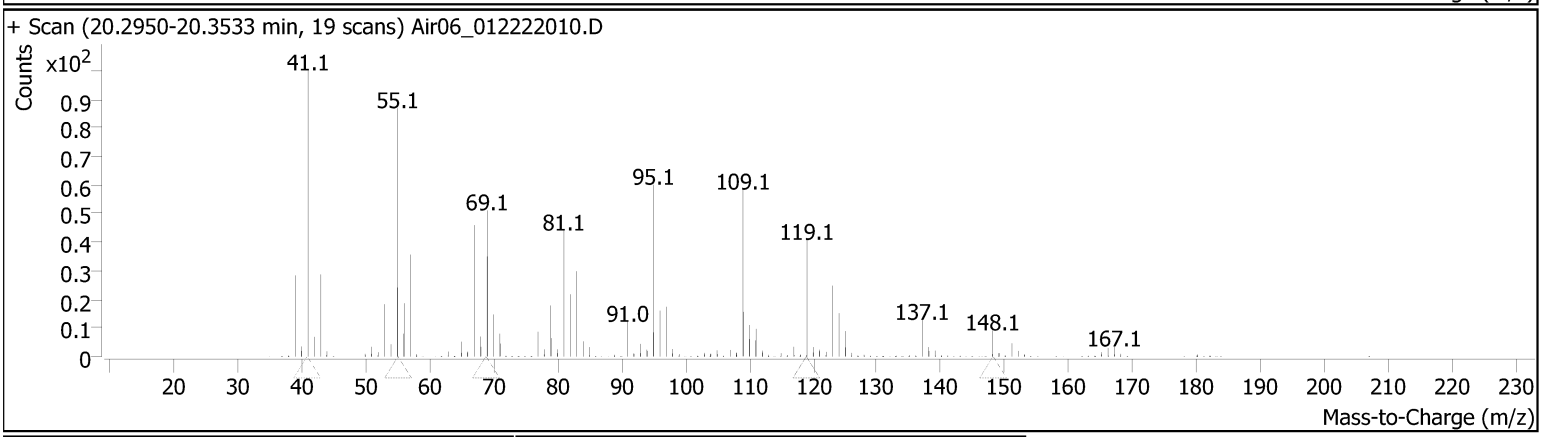



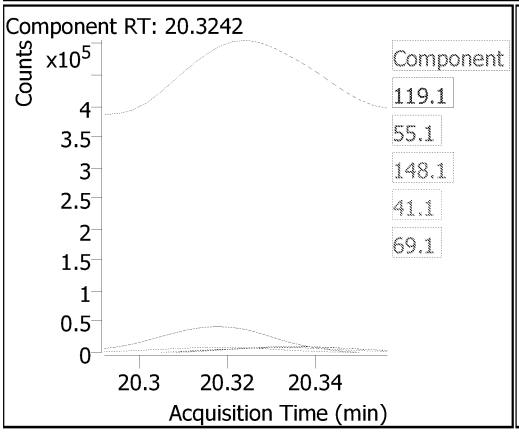



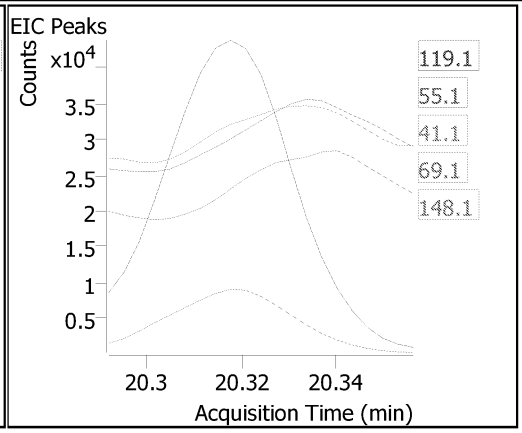
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3242 | p-Toluic acid, 5-tridecyl ester | 1411325.5 | 71.1 | 1000299-80-5 | C21H34O2 | 3.054 |

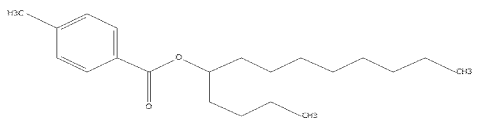


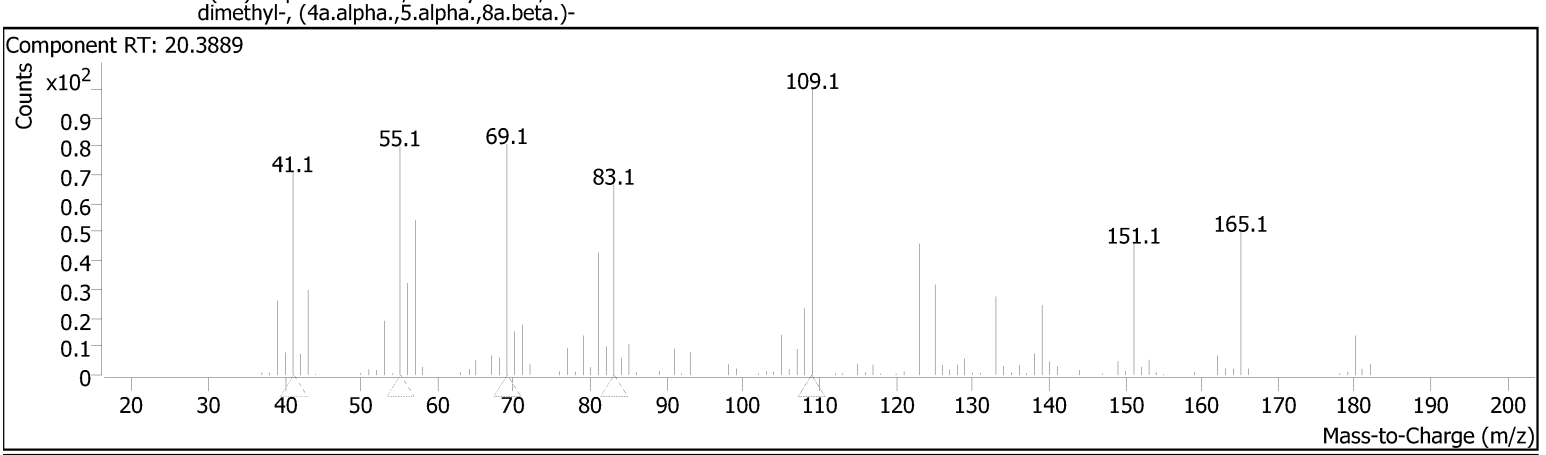



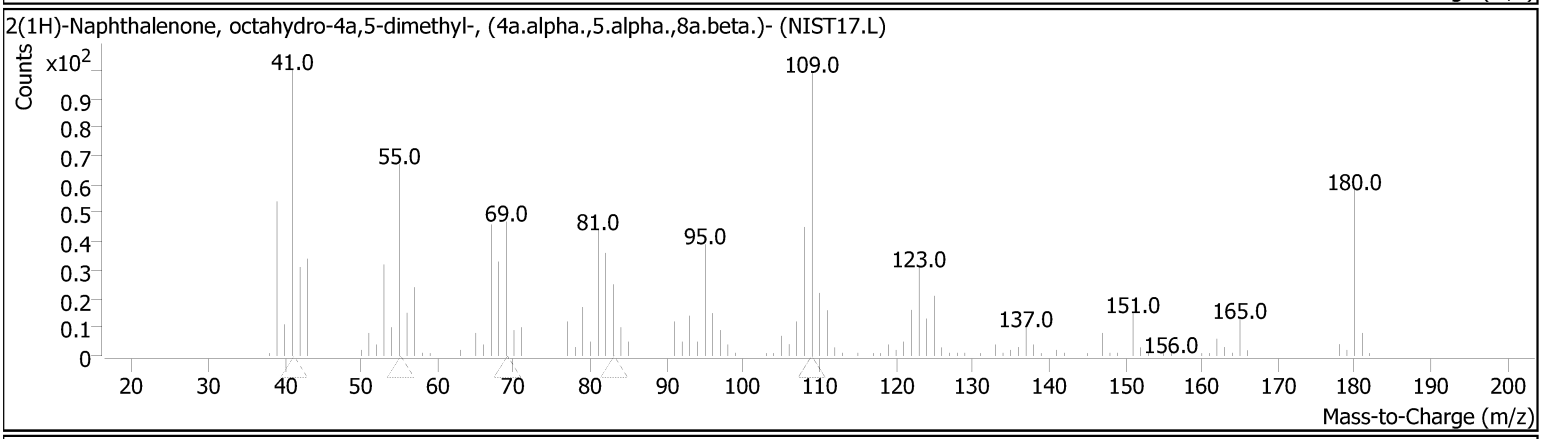



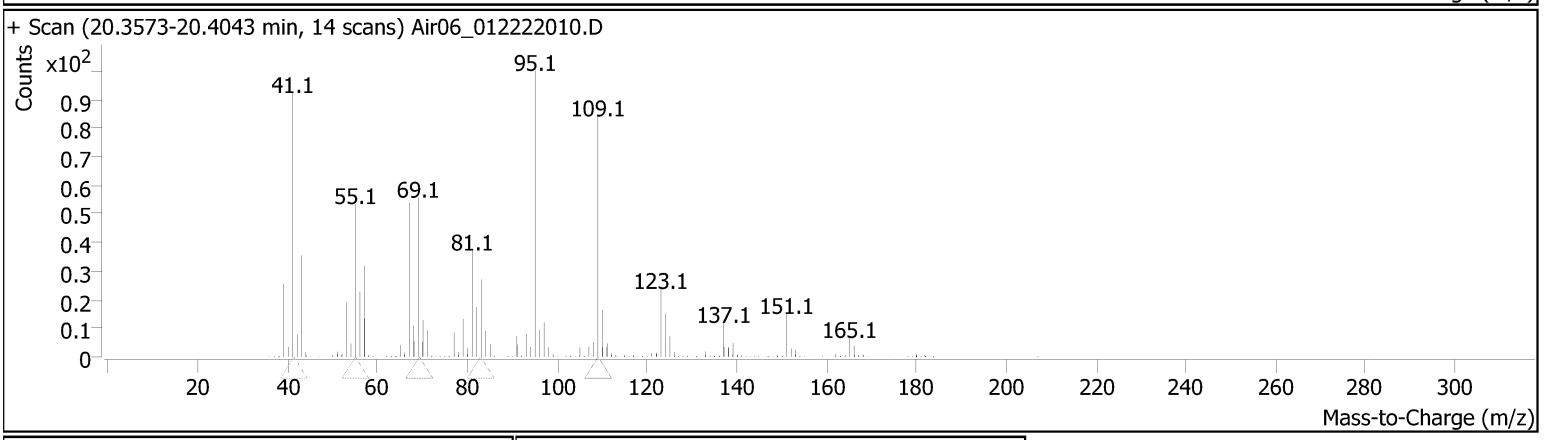



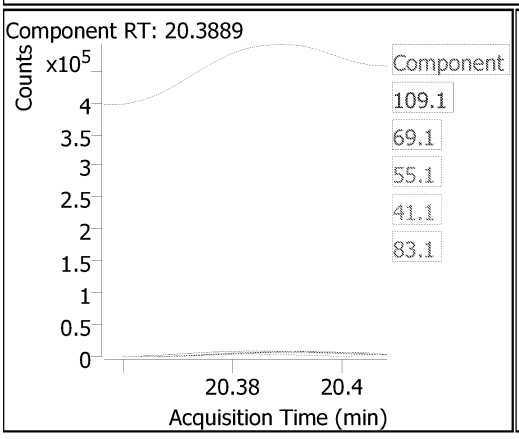



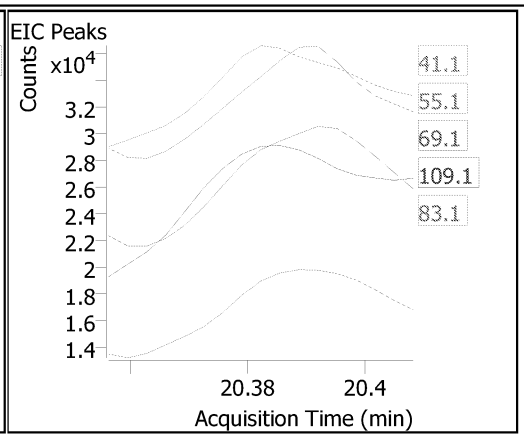
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3889 | 2(1H)-Naphthalenone, octahydro-4a,5-dimethyl-, (4a.alpha.,5.alpha.,8a.beta.)- | 1149228.0 | 70.9 | 51557-64-3 | C12H20O | 2.487 |

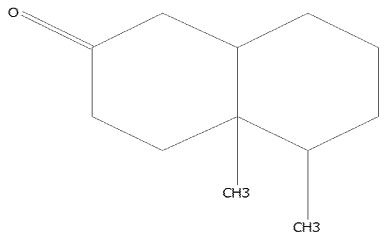


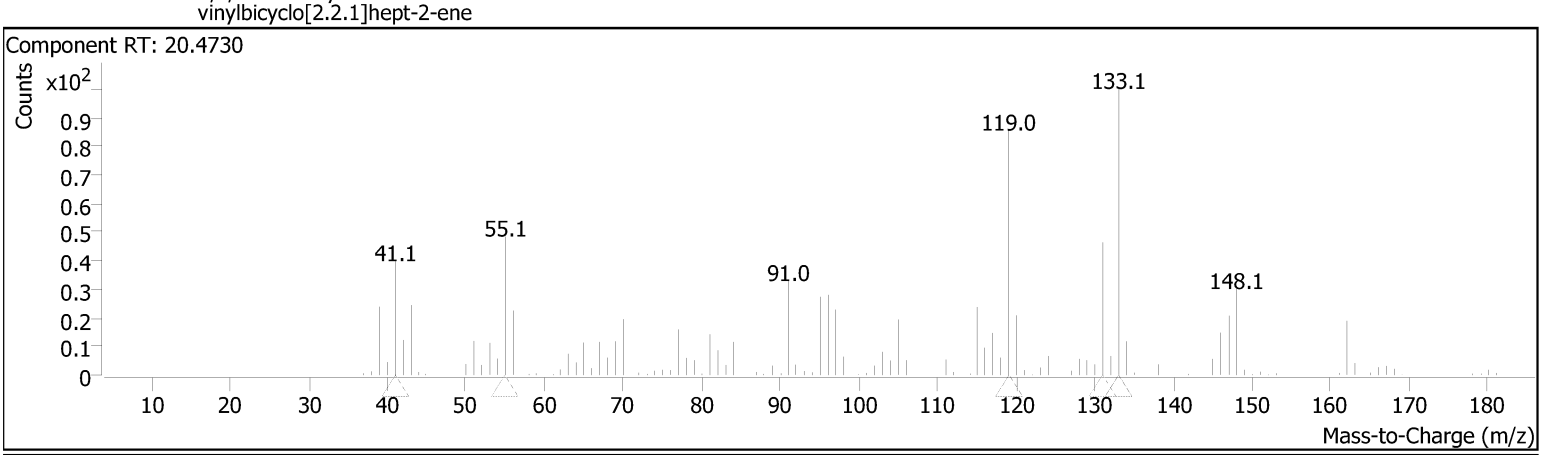



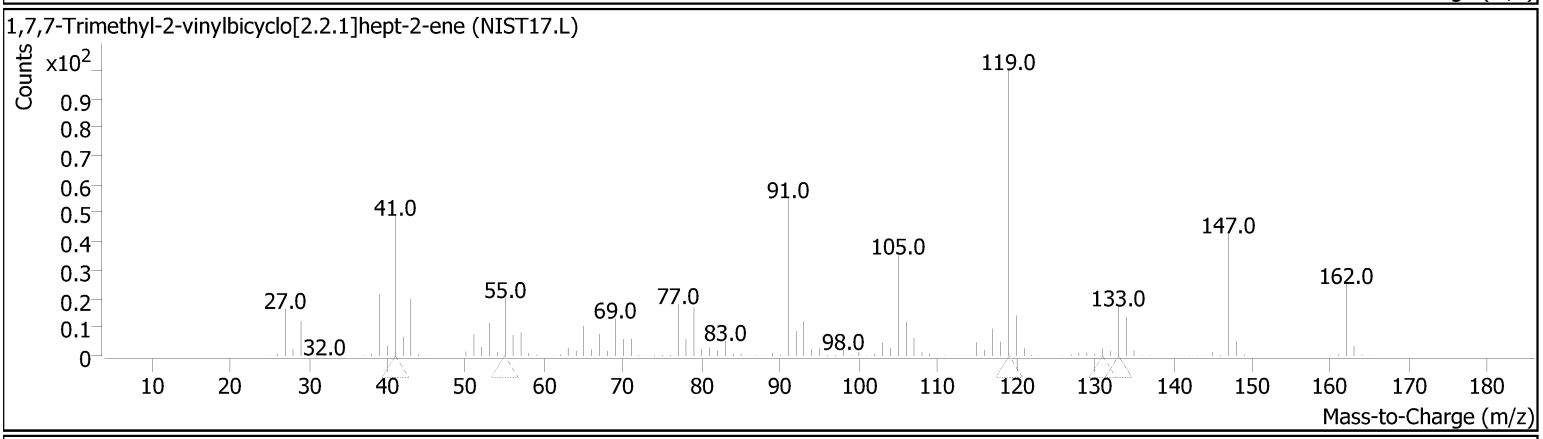



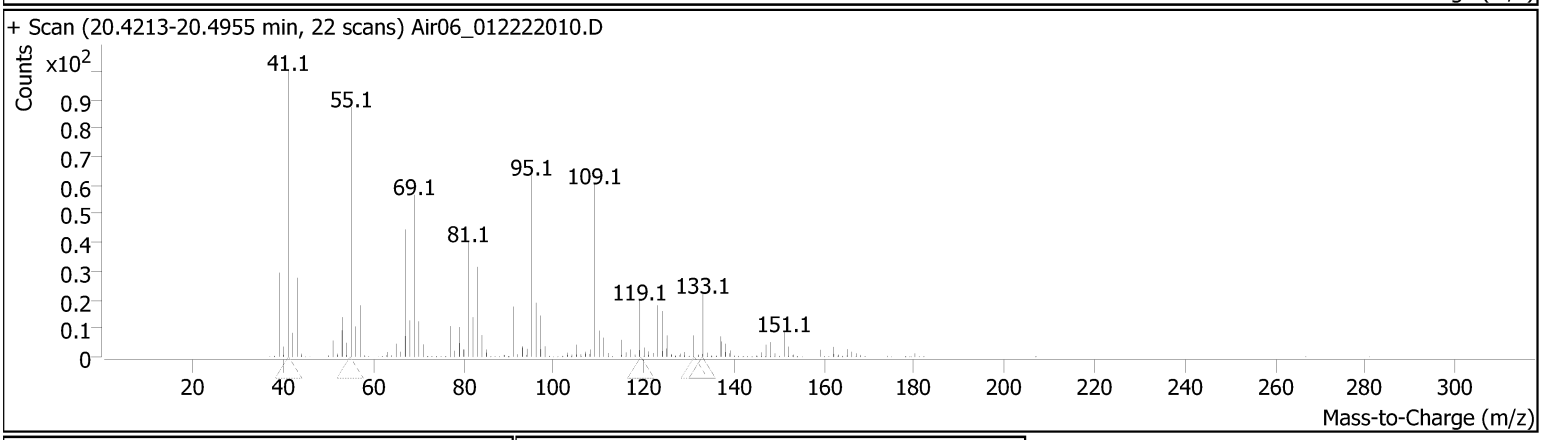



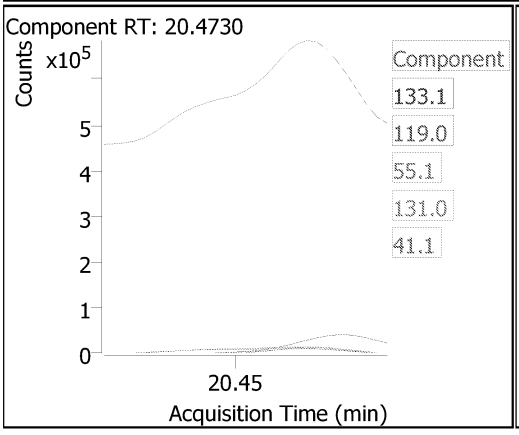



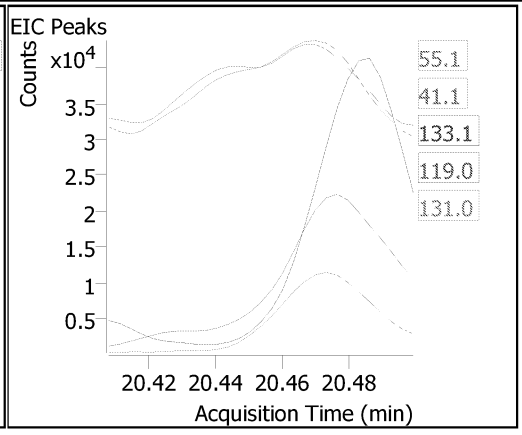
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.4730 | 1,7,7-Trimethyl-2-vinylbicyclo[2.2.1]hept-2-ene | 2601041.4 | 77.0 | 130930-56-2 | C12H18 | 5.628 |

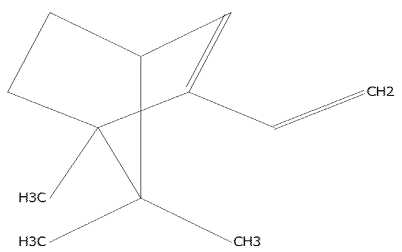


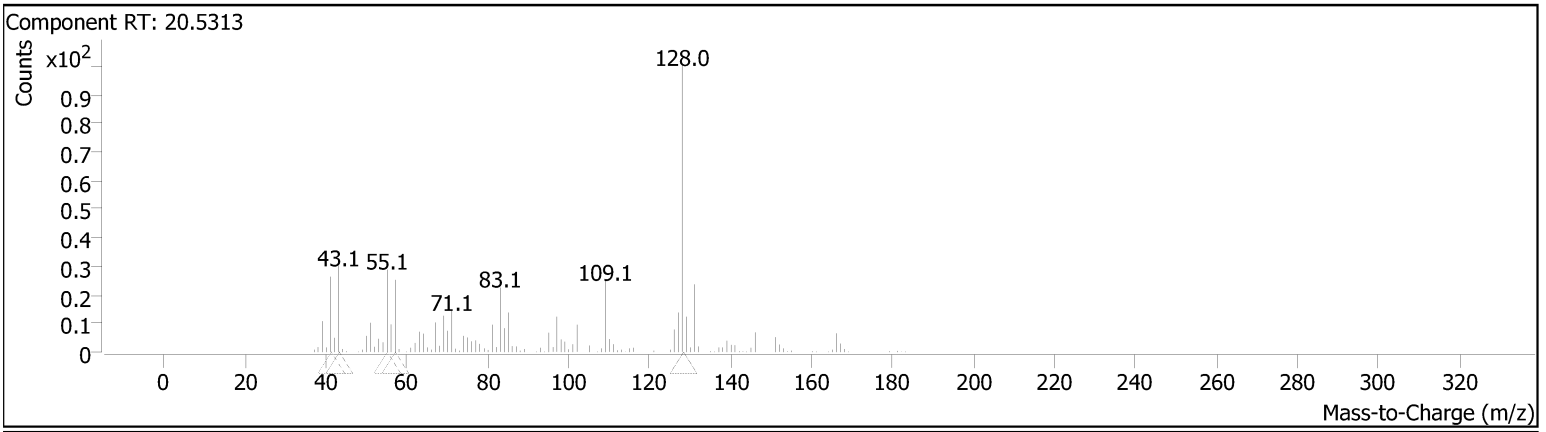



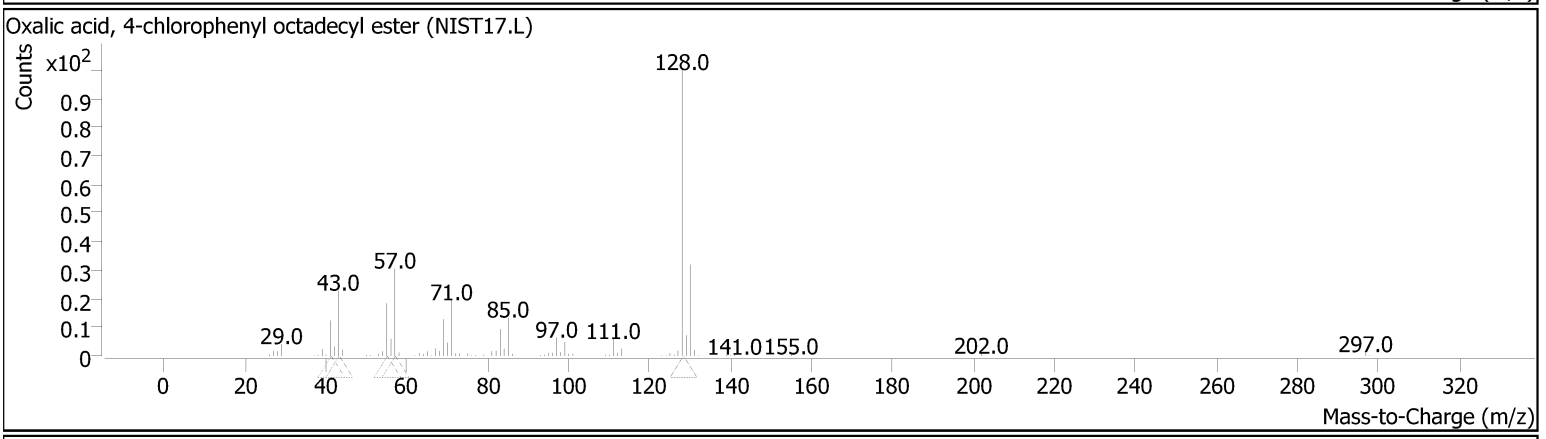



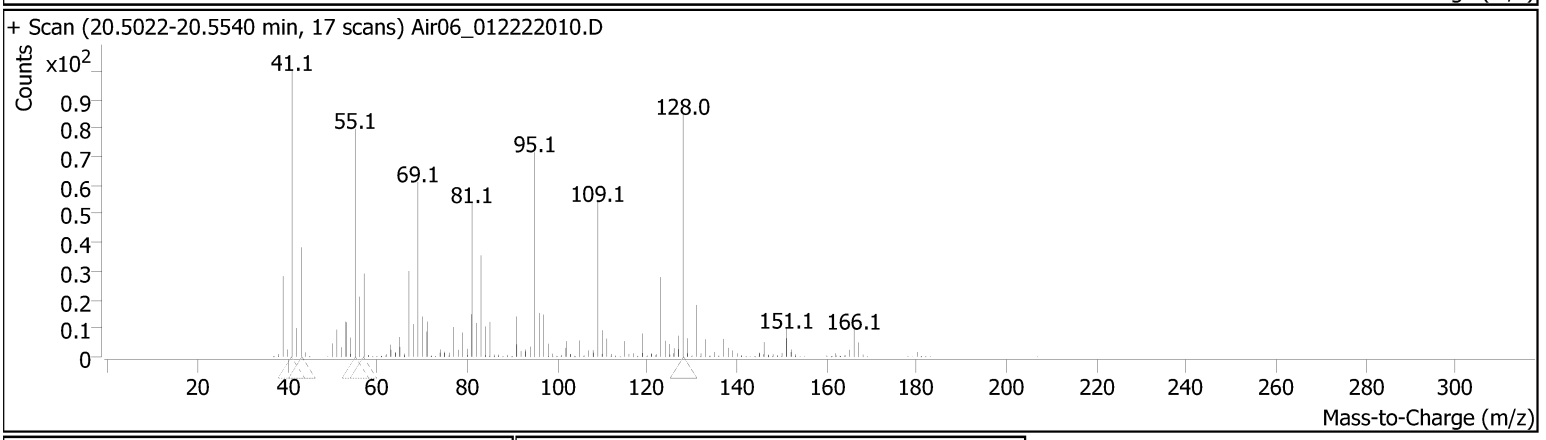



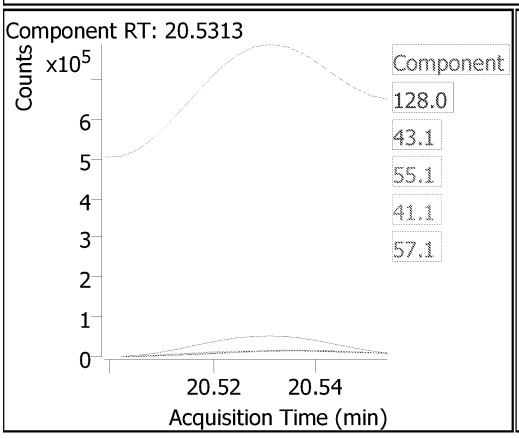



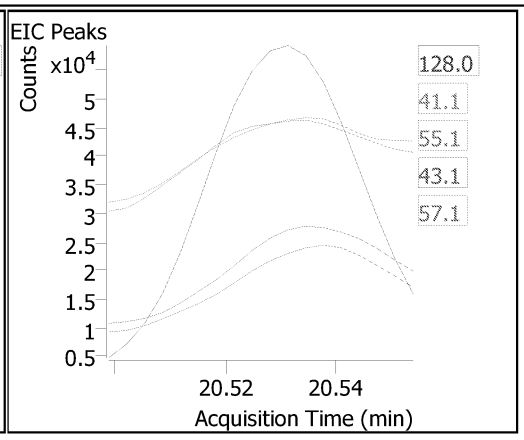
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.5313 | Oxalic acid, 4-chlorophenyl octadecyl ester | 1939869.5 | 70.1 | 1000309-61-9 | C26H41ClO4 | 4.197 |

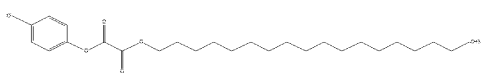


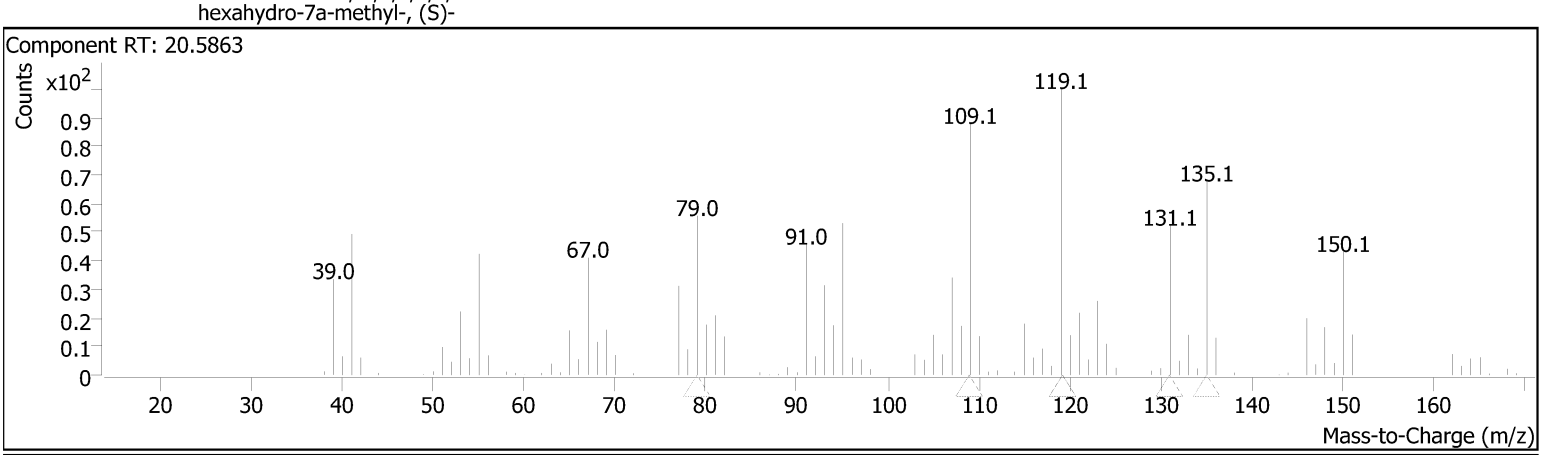



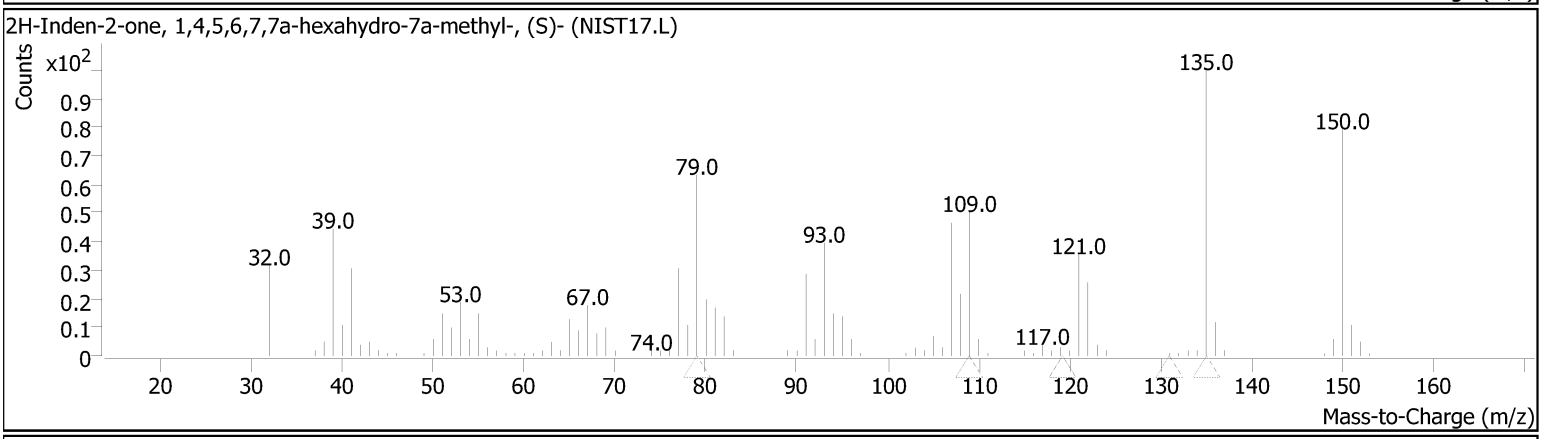



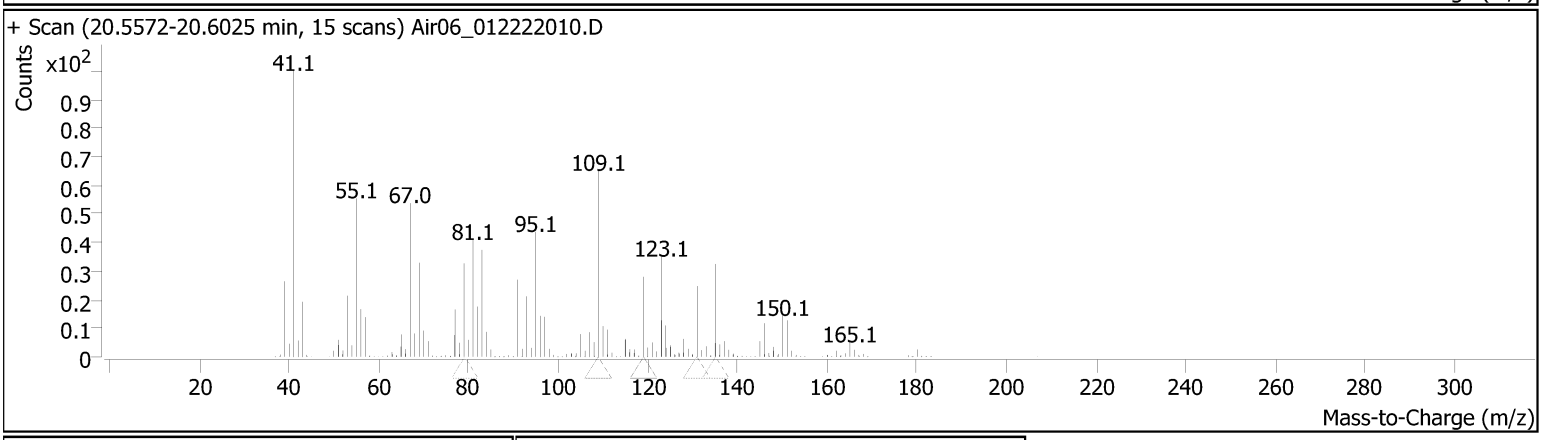
# Library Search Results - NonTarget Hits with Details

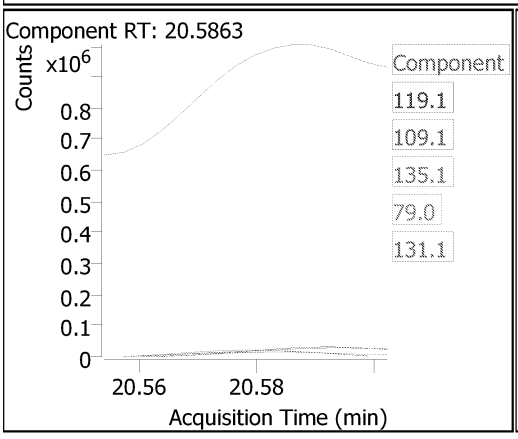
Agilent Technologies

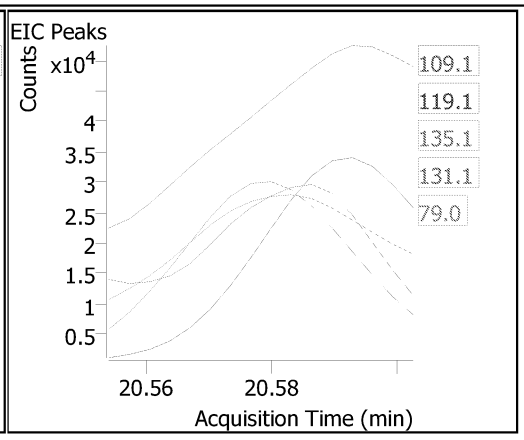
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.5863 | 2H-Inden-2-one, 1,4,5,6,7,7a-hexahydro-7a-methyl-, (S)- | 2308129.2 | 77.9 | 54725-16-5 | C10H14O | 4.994 |

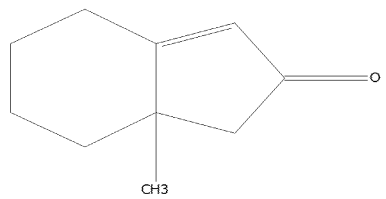


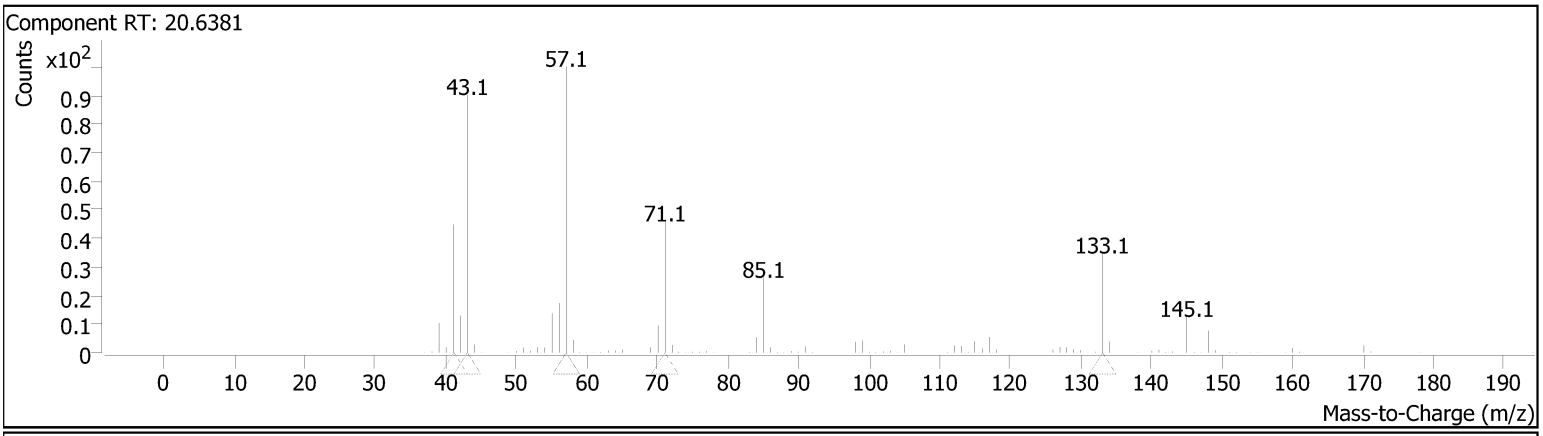



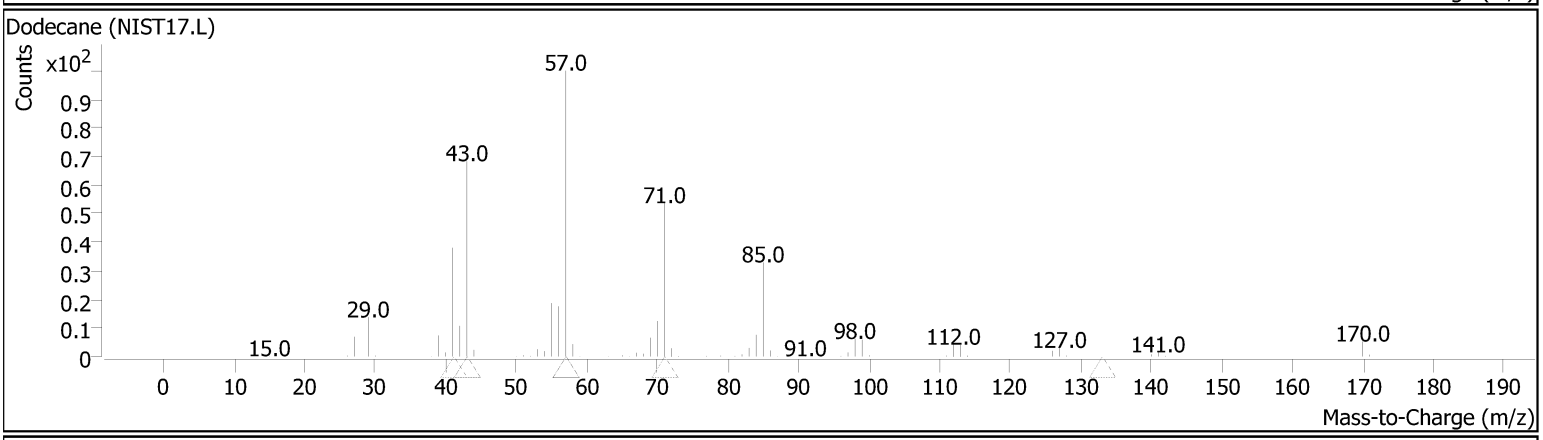



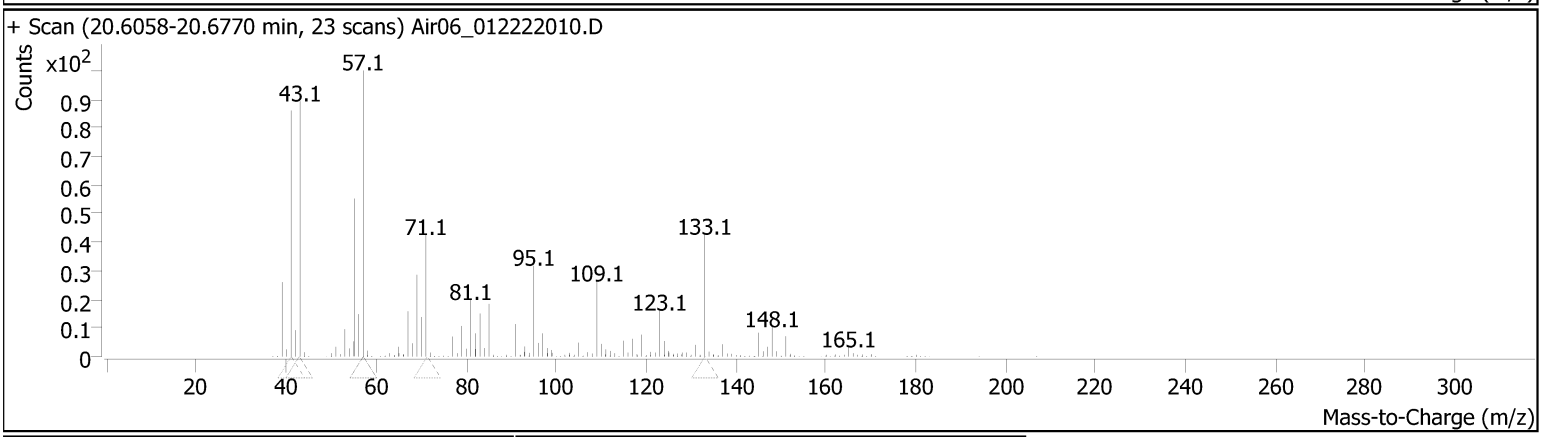
# Library Search Results - NonTarget Hits with Details

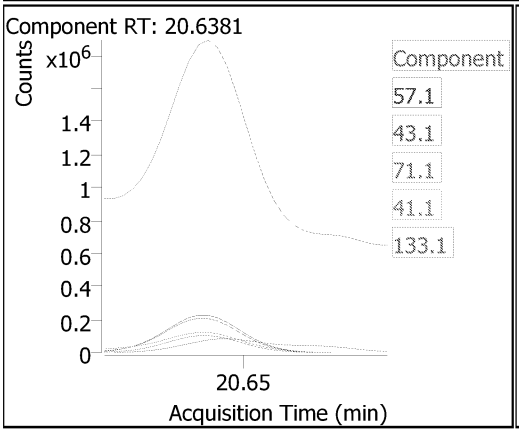
Agilent Technologies

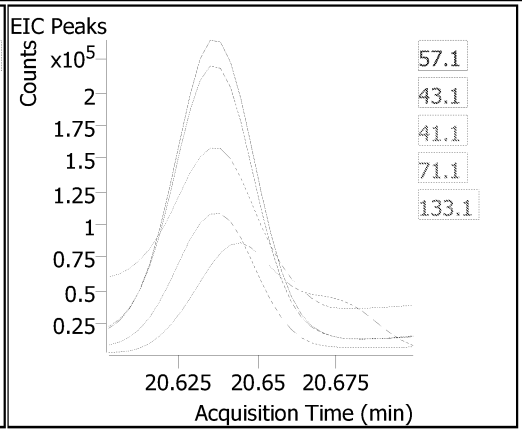
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.6381 | Dodecane | 5976008.8 | 74.2 | 112-40-3 | C12H26 | 12.93 |



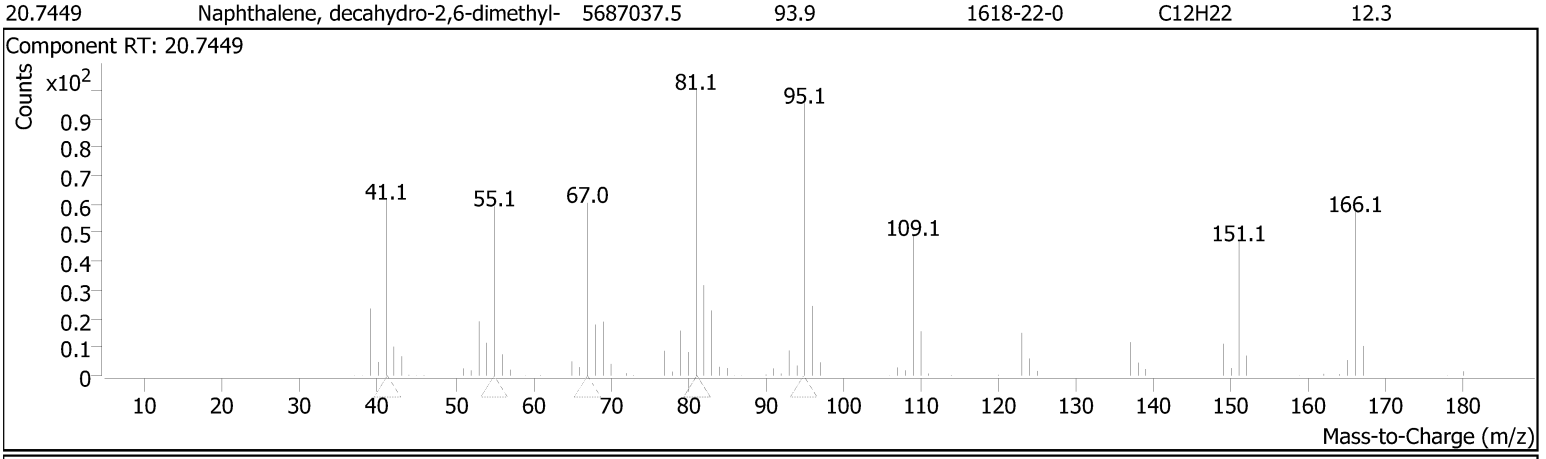



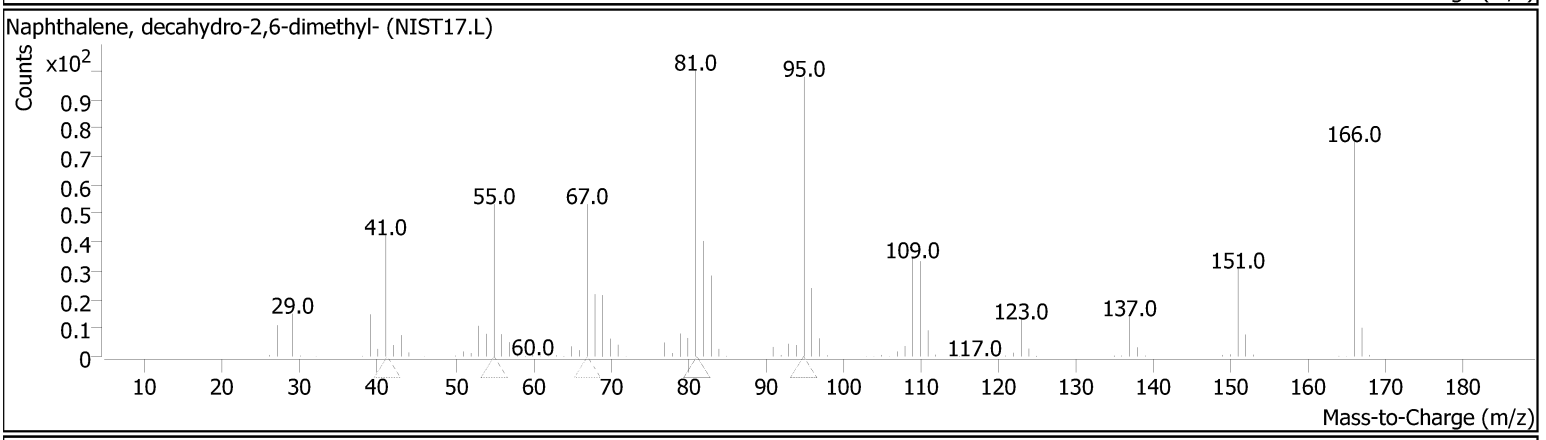



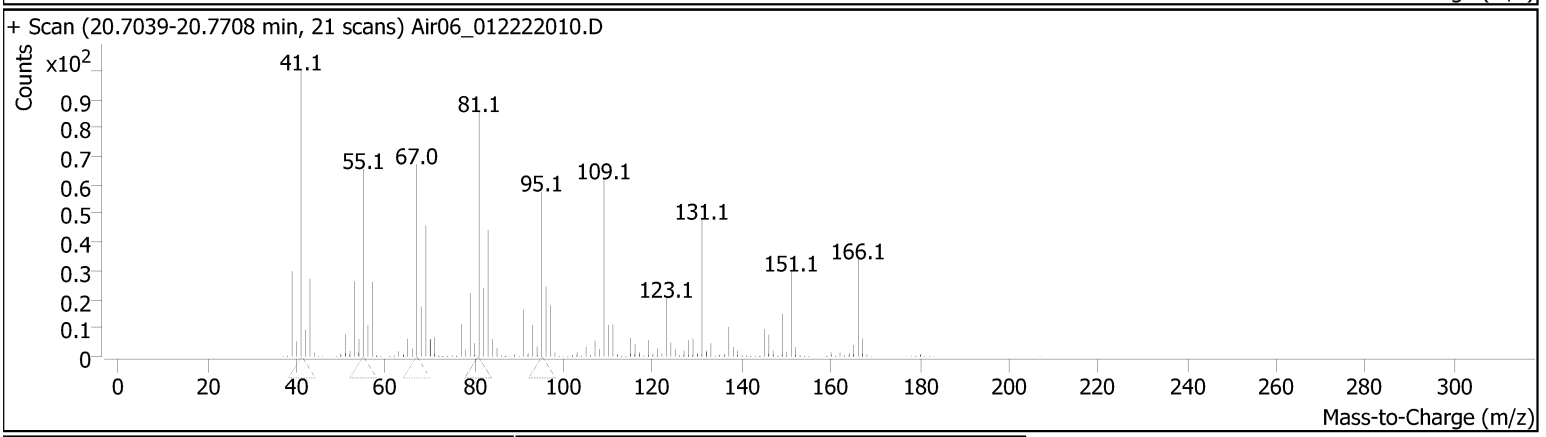



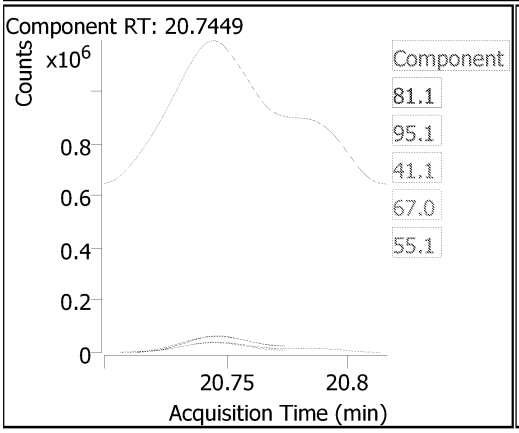


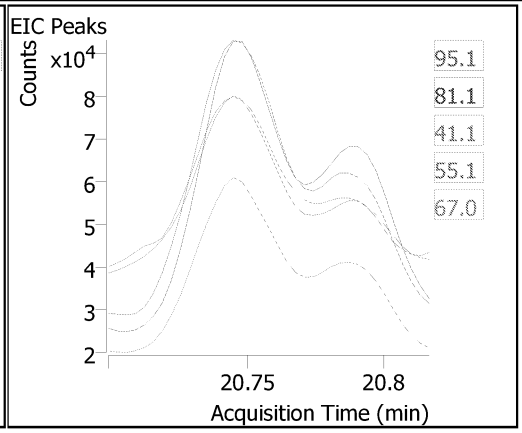

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.7449 | Naphthalene, decahydro-2,6-dimethyl- | 5687037.5 | 93.9 | 1618-22-0 | C12H22 | 12.3 |

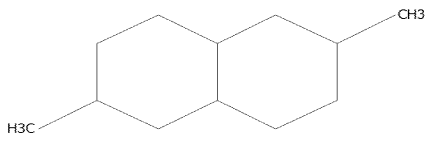


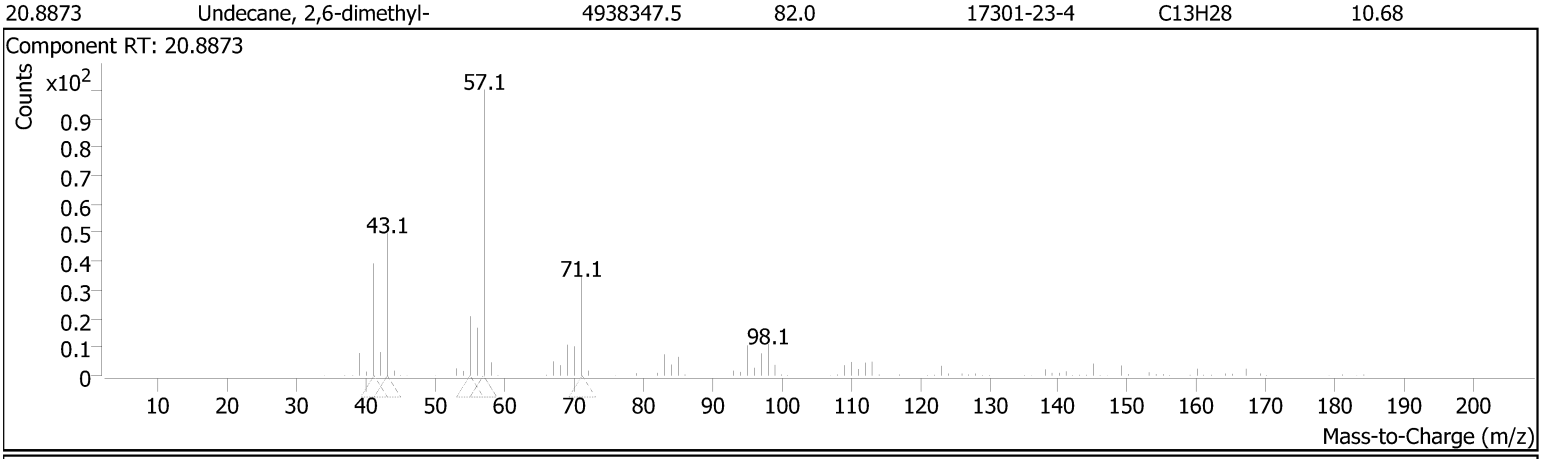



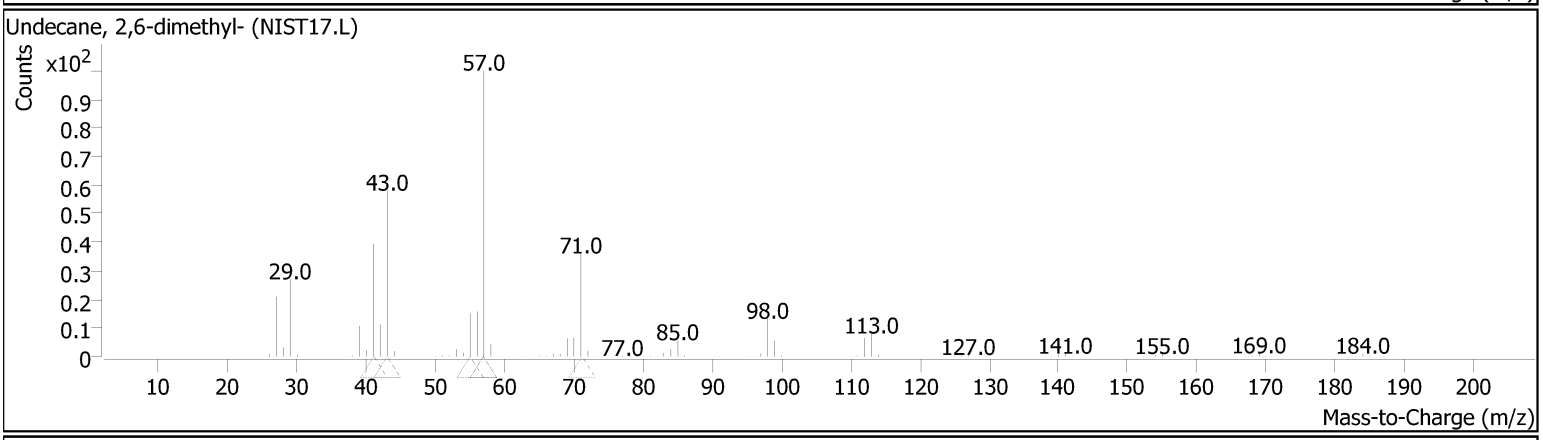



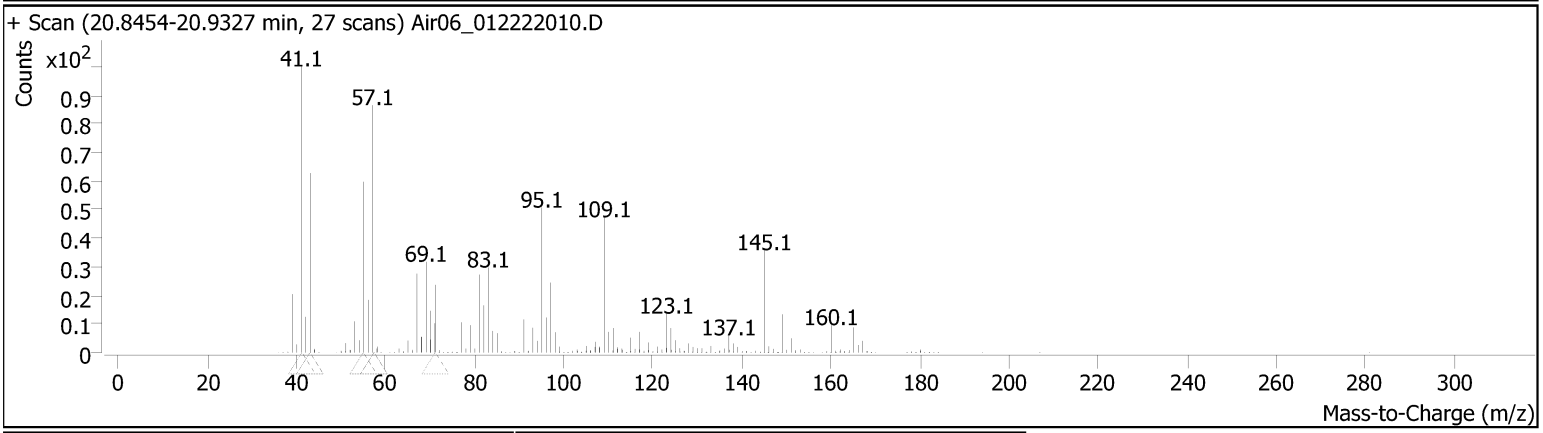



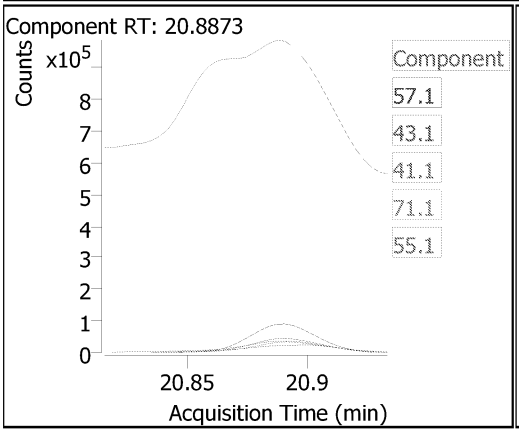



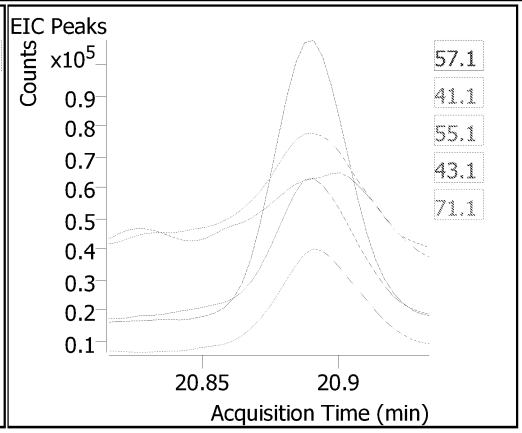
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.8873 | Undecane, 2,6-dimethyl- | 4938347.5 | 82.0 | 17301-23-4 | C13H28 | 10.68 |

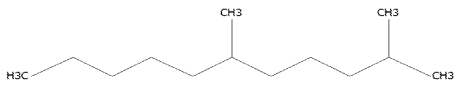


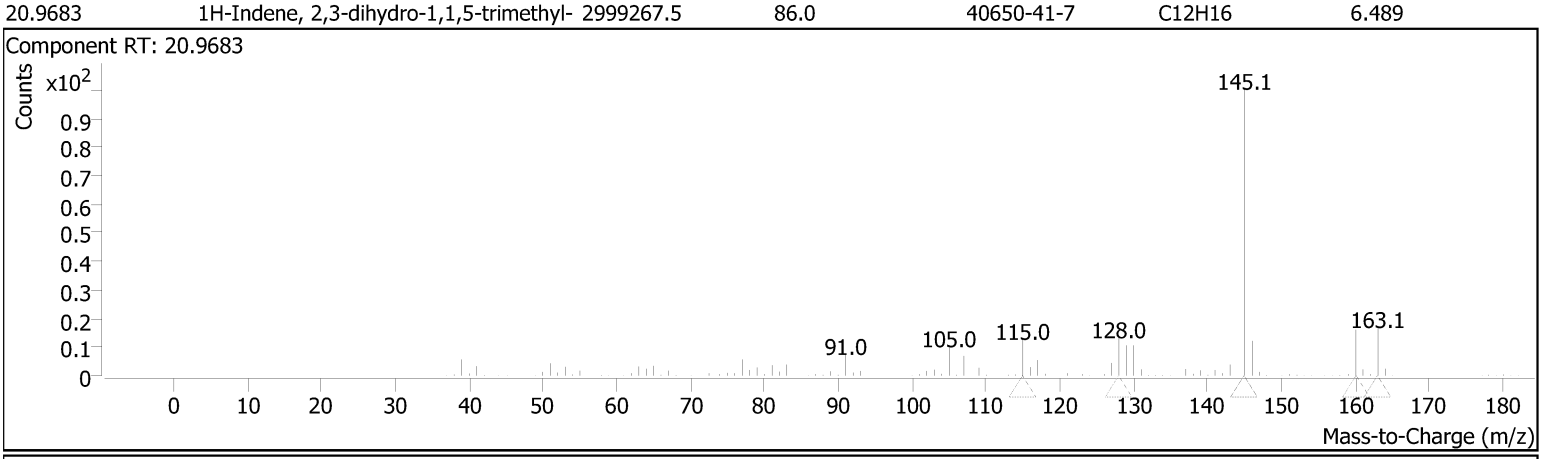



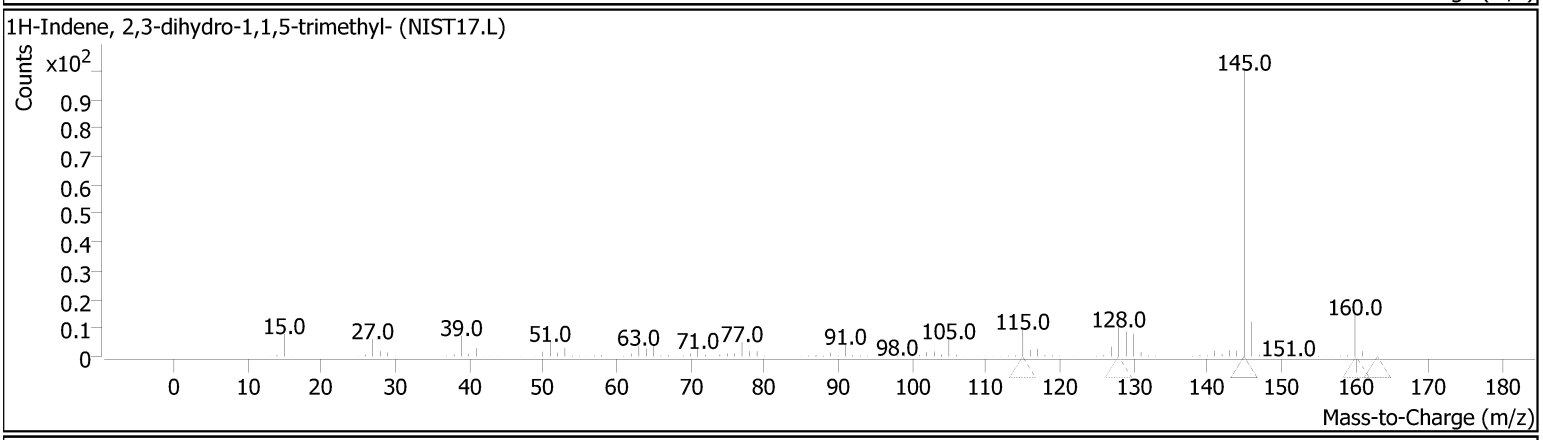



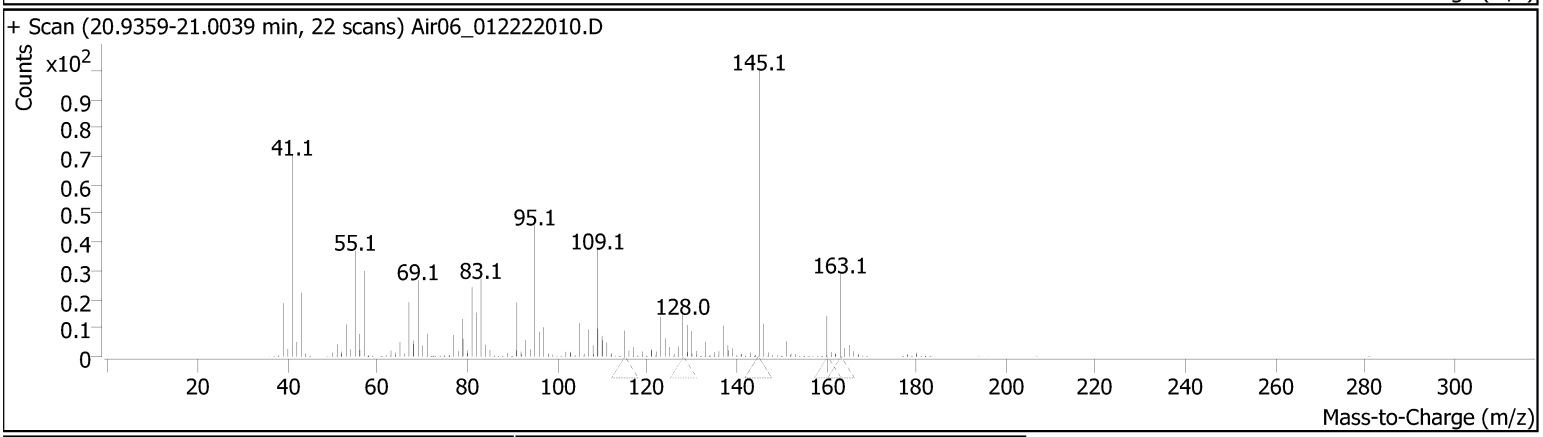



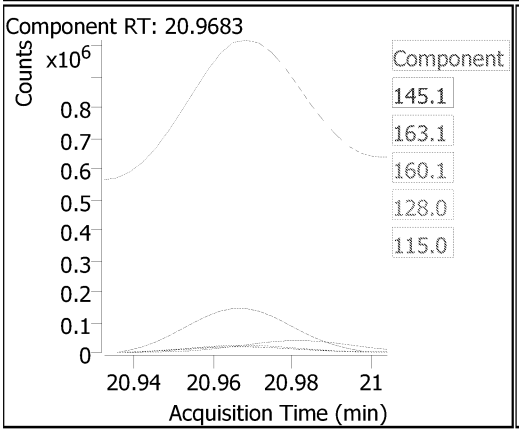



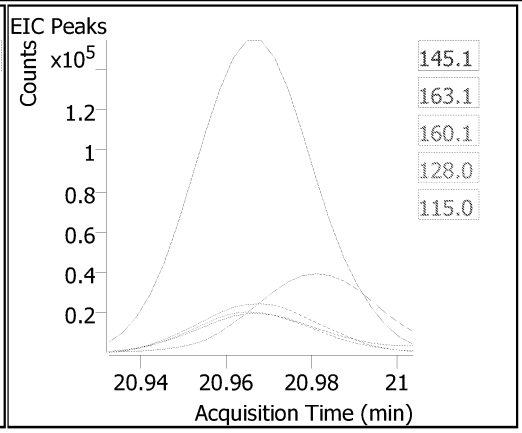
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.9683 | 1H-Indene, 2,3-dihydro-1,1,5-trimethyl- | 2999267.5 | 86.0 | 40650-41-7 | C12H16 | 6.489 |

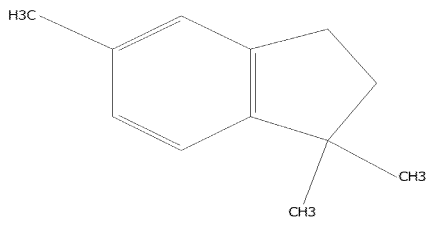


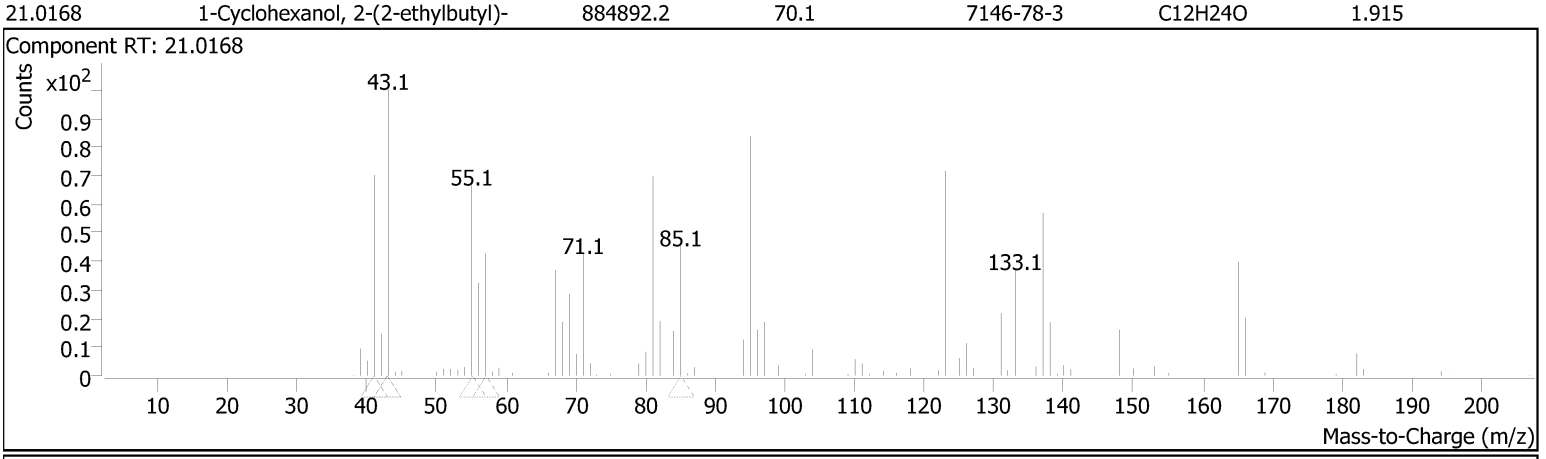



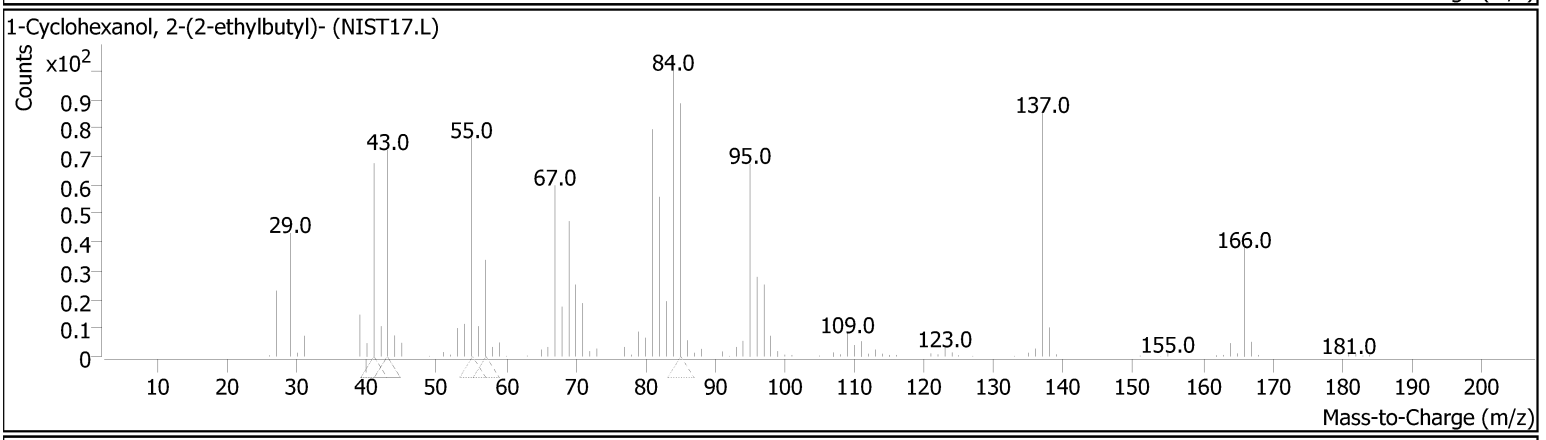



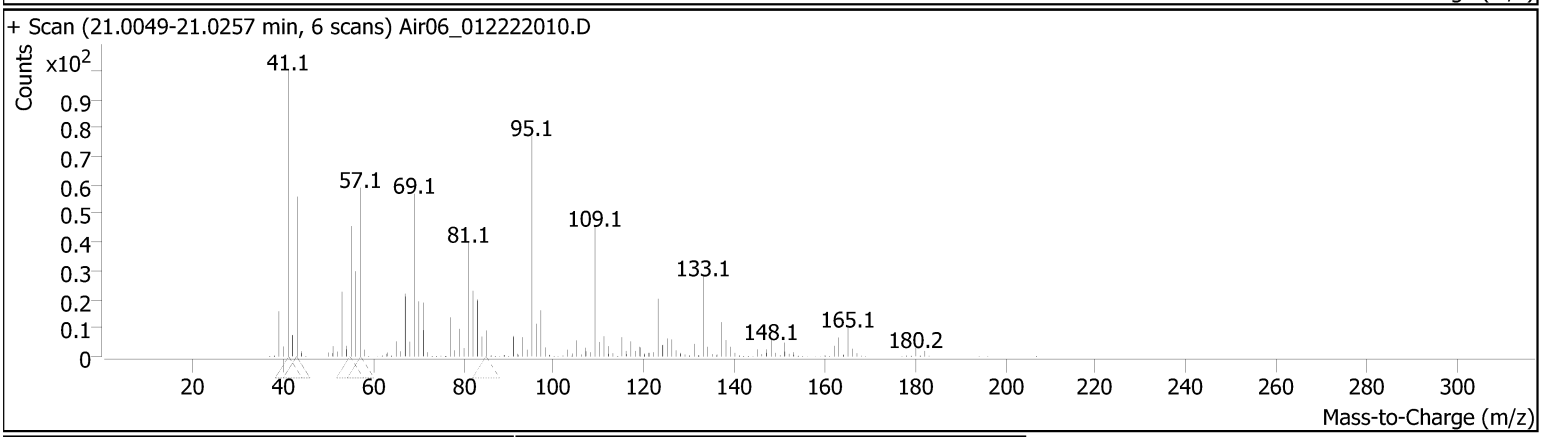
# Library Search Results - NonTarget Hits with Details

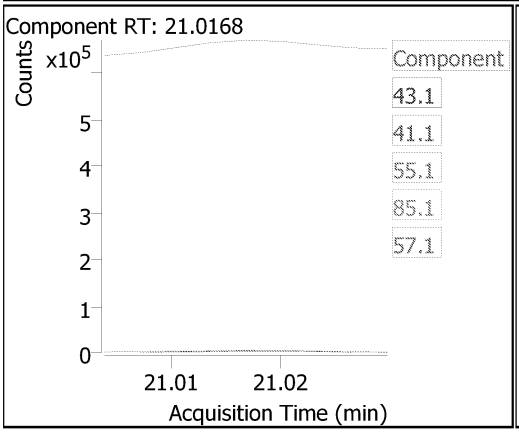
Agilent Technologies

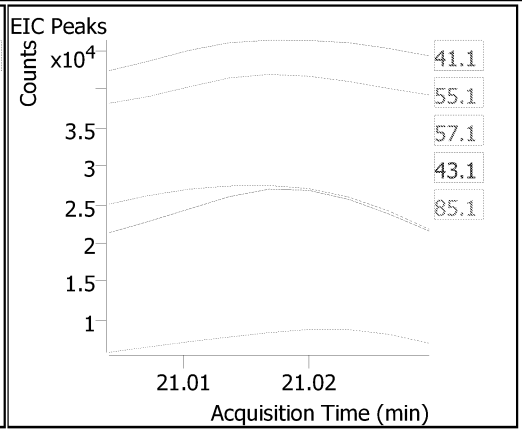
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.0168 | 1-Cyclohexanol, 2-(2-ethylbutyl)- | 884892.2 | 70.1 | 7146-78-3 | C12H24O | 1.915 |

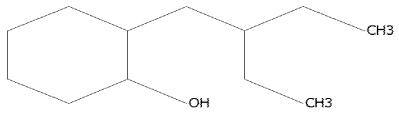


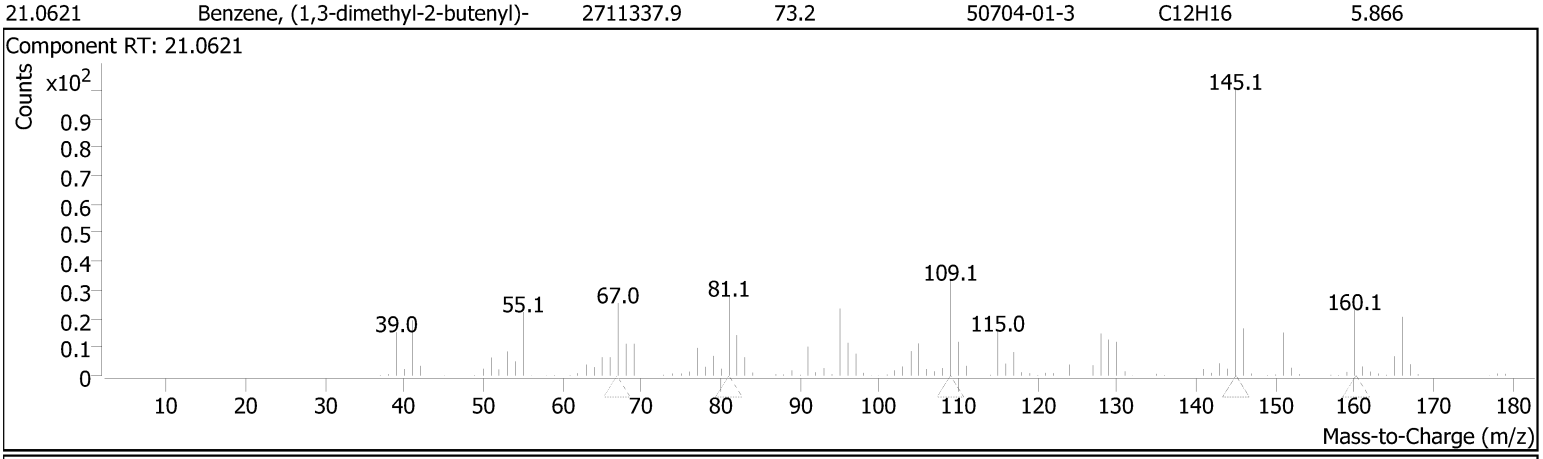



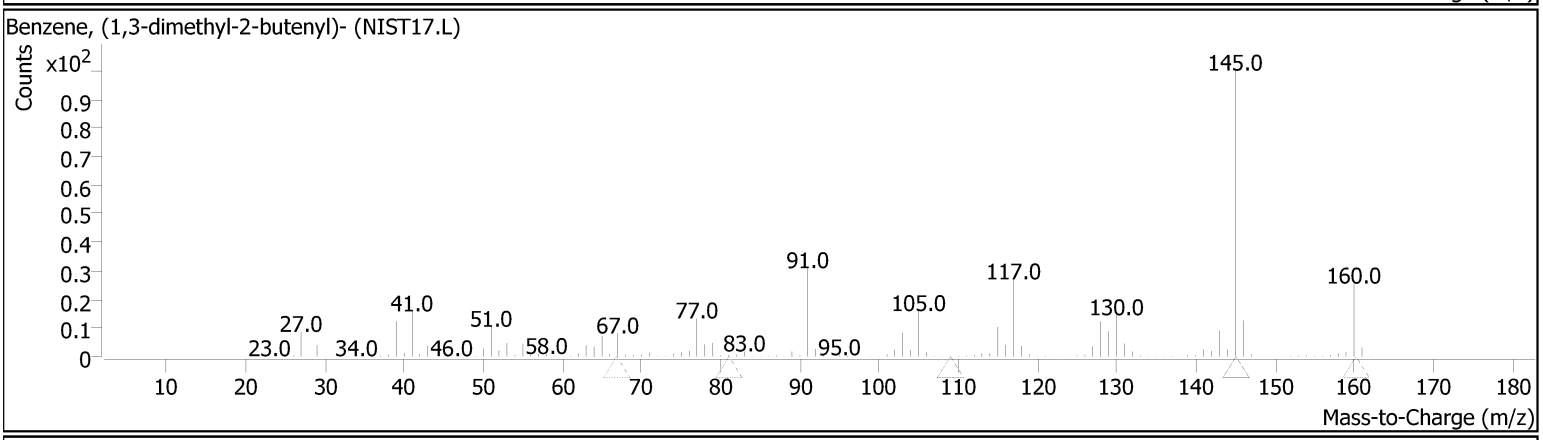



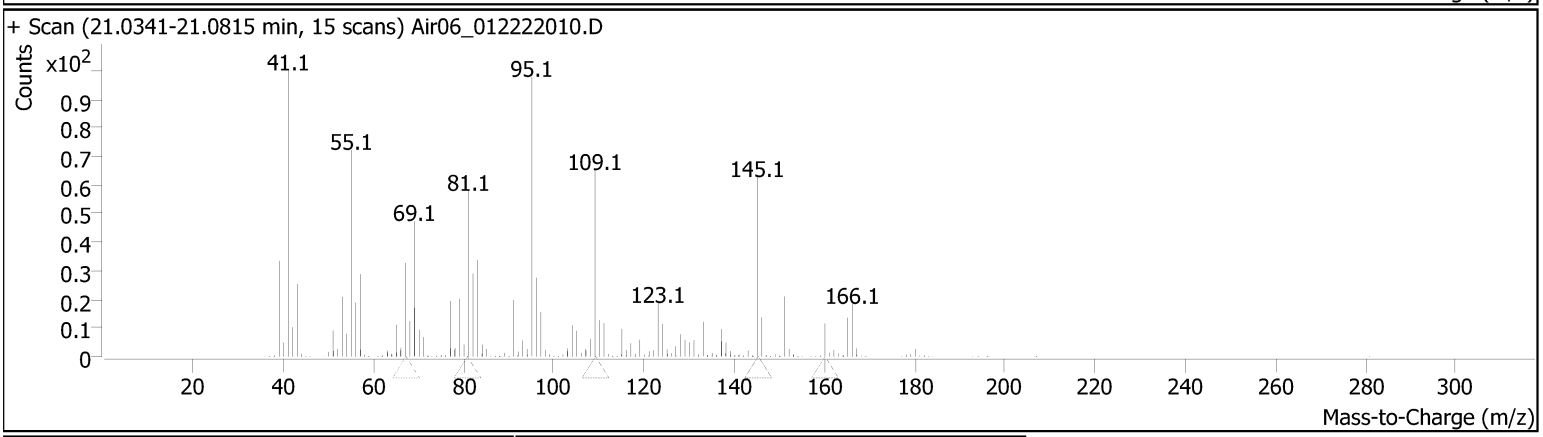



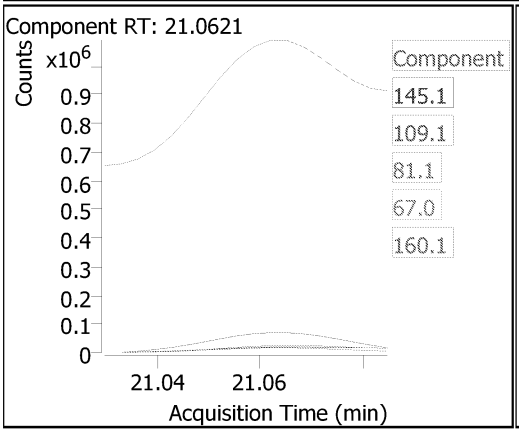



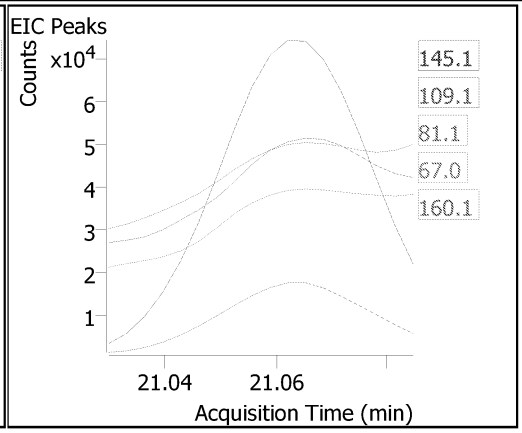
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.0621 | Benzene, (1,3-dimethyl-2-butenyl)- | 2711337.9 | 73.2 | 50704-01-3 | C12H16 | 5.866 |

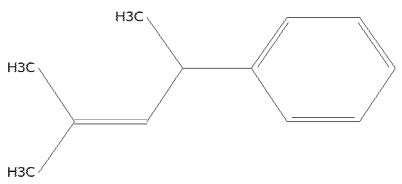


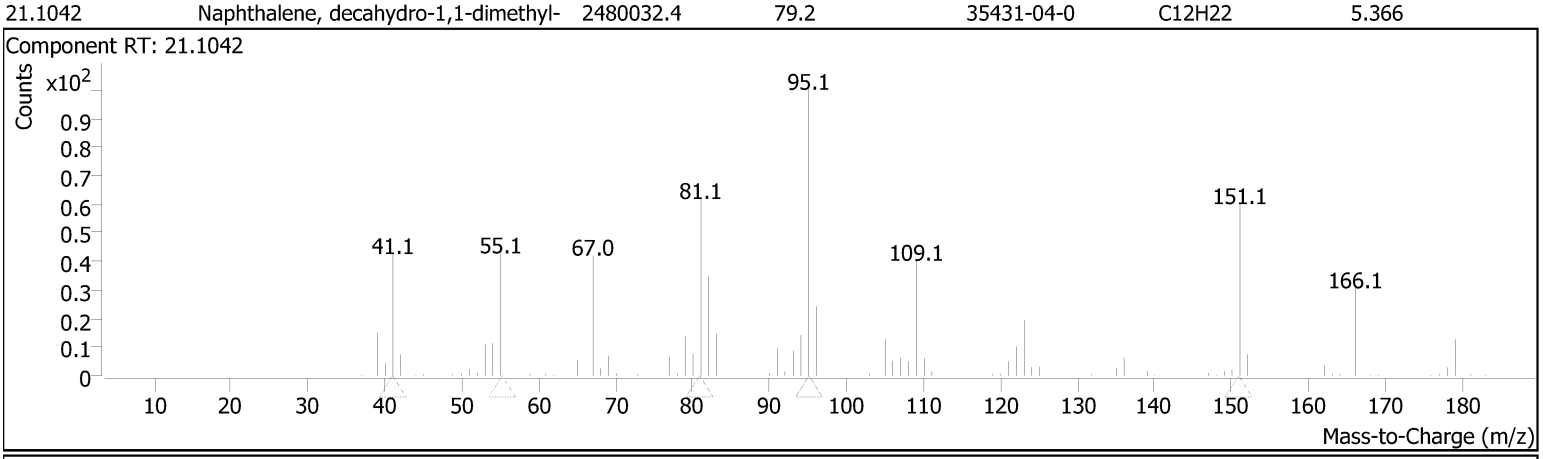



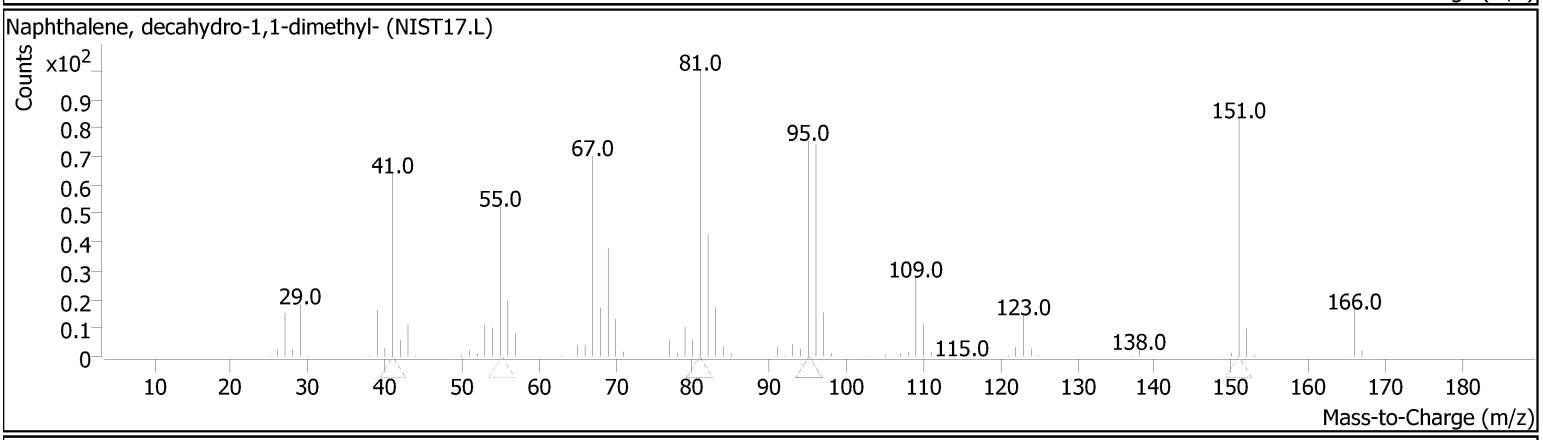



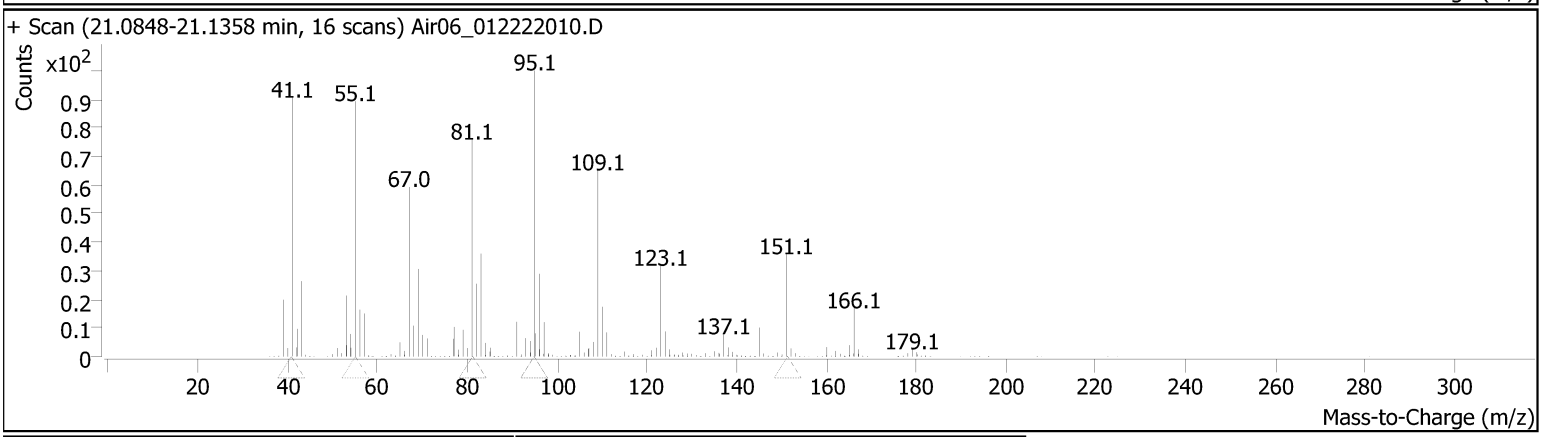



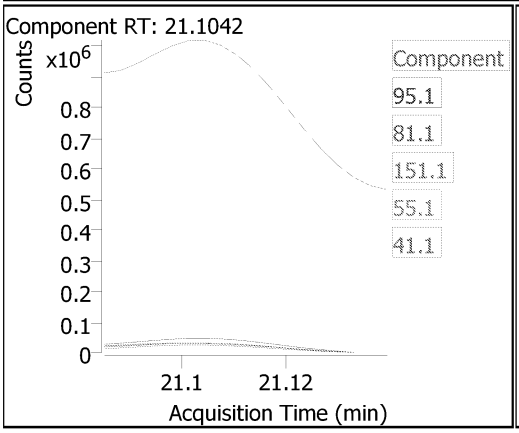



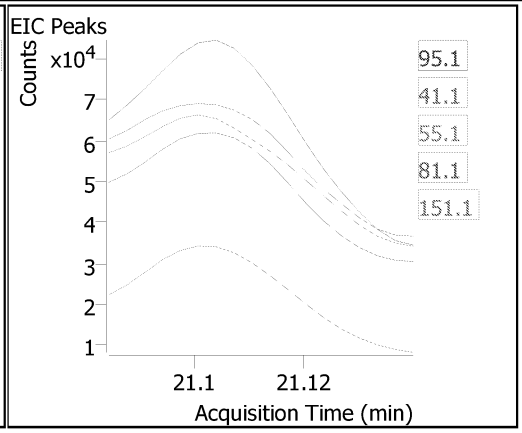
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.1042 | Naphthalene, decahydro-1,1-dimethyl- | 2480032.4 | 79.2 | 35431-04-0 | C12H22 | 5.366 |

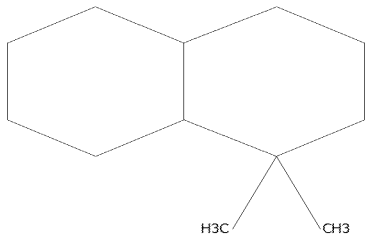


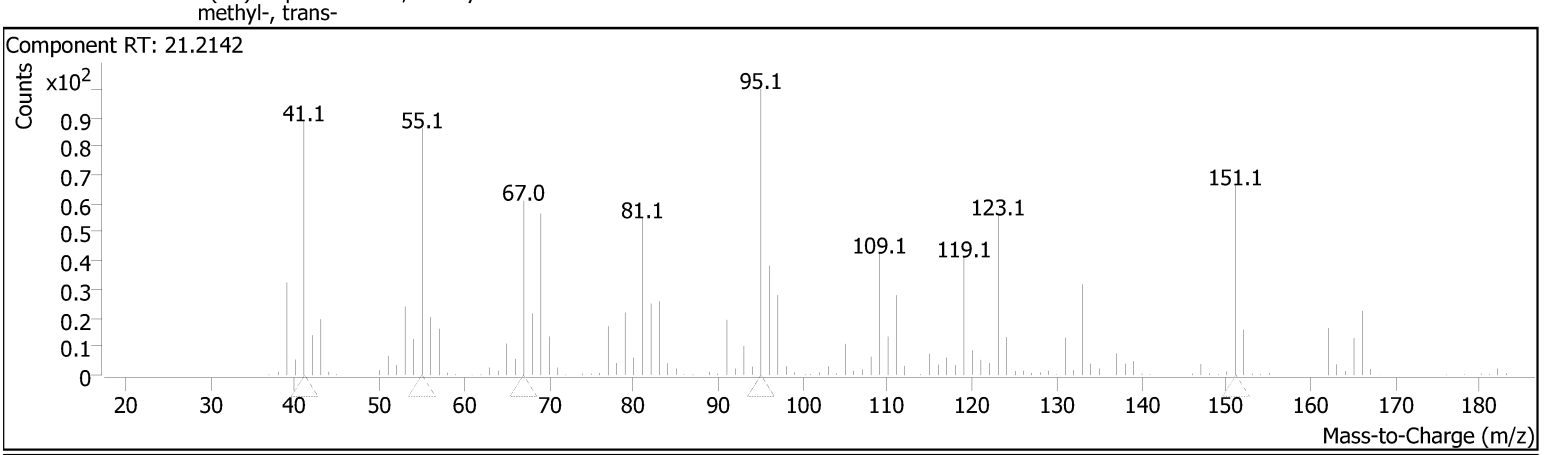



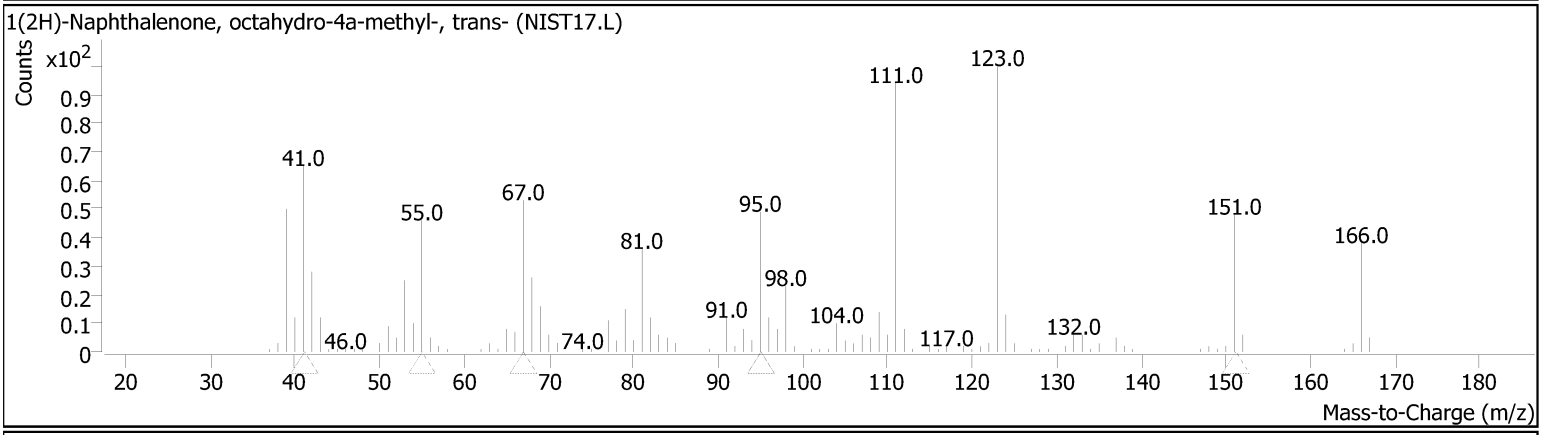



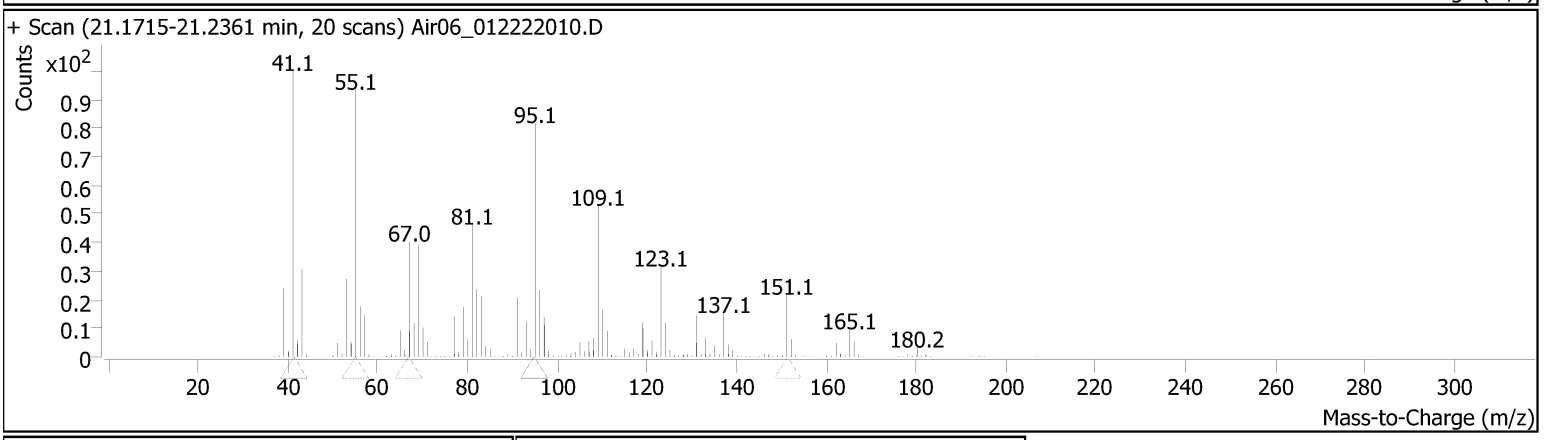
# Library Search Results - NonTarget Hits with Details

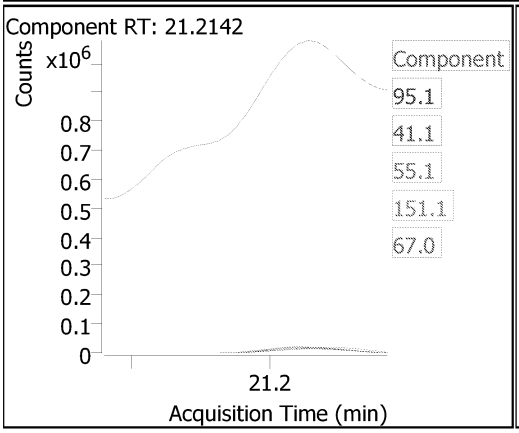
Agilent Technologies

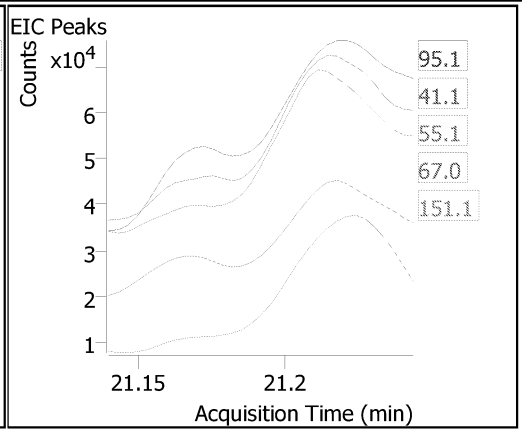
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.2142 | 1(2H)-Naphthalenone, octahydro-4a-methyl-, trans- | 4577365.0 | 84.5 | 937-99-5 | C11H18O | 9.904 |

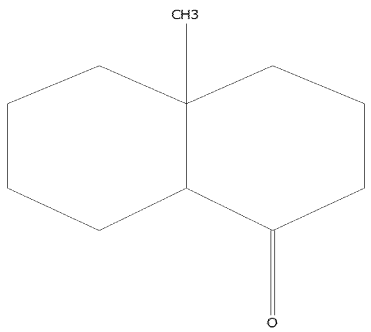


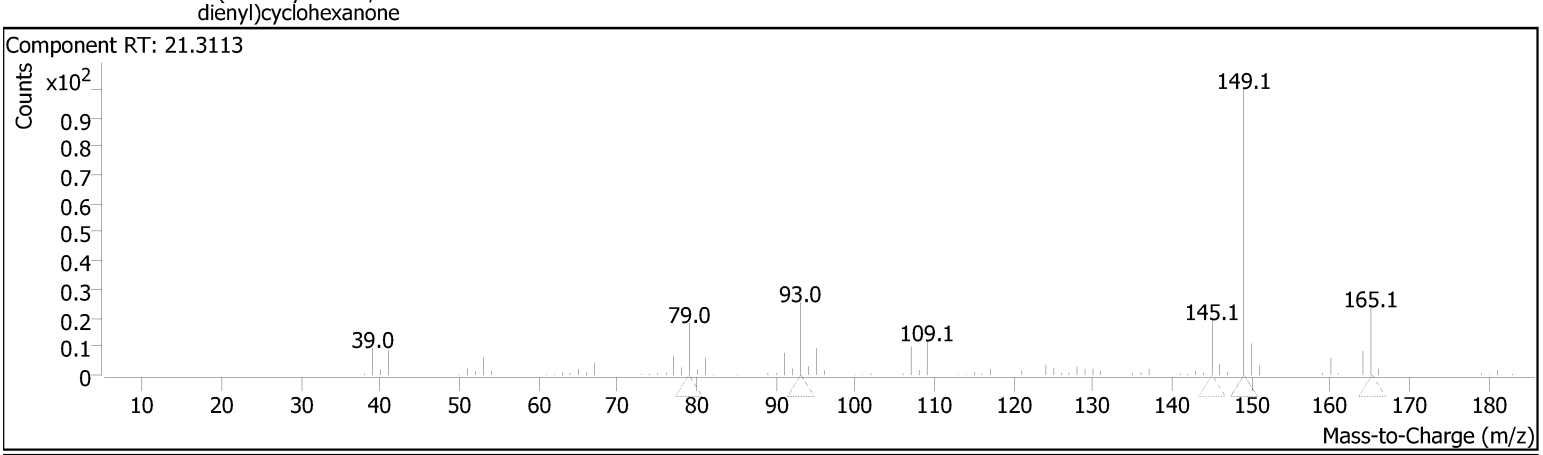



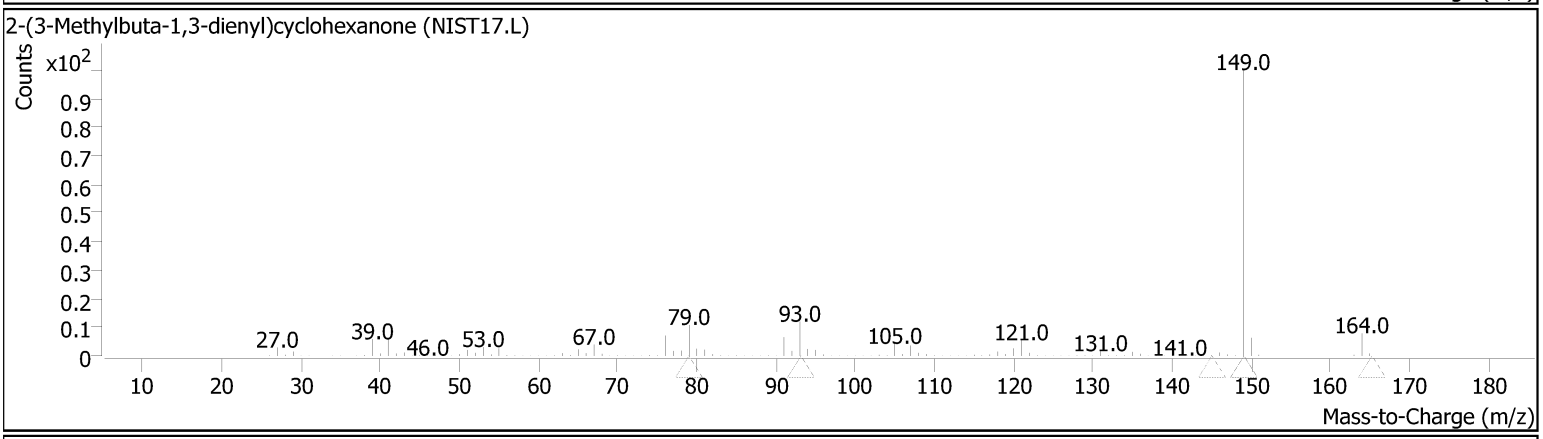



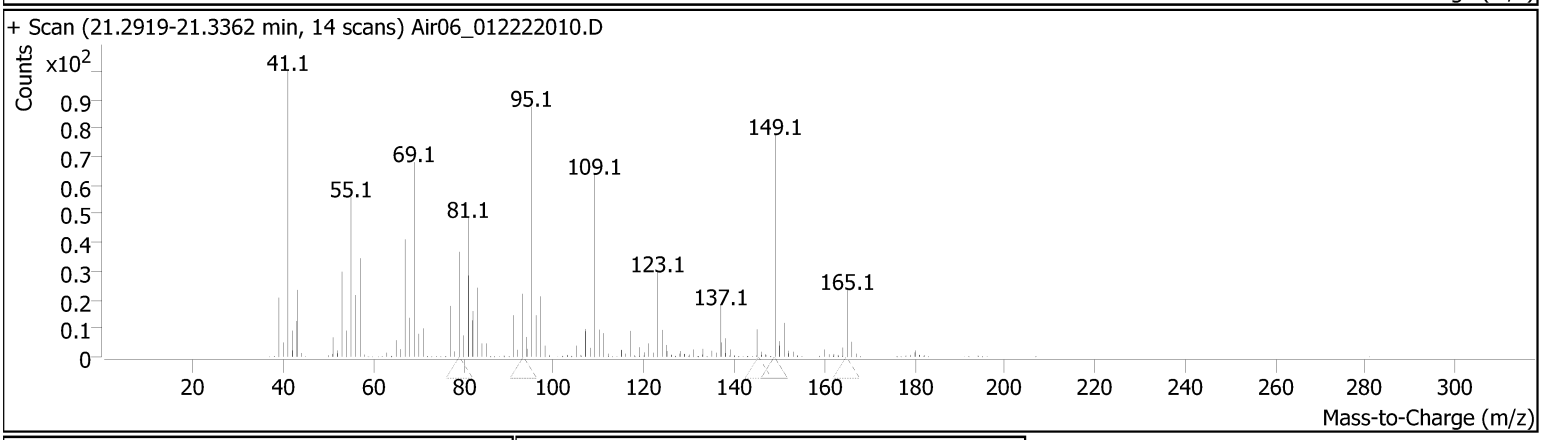



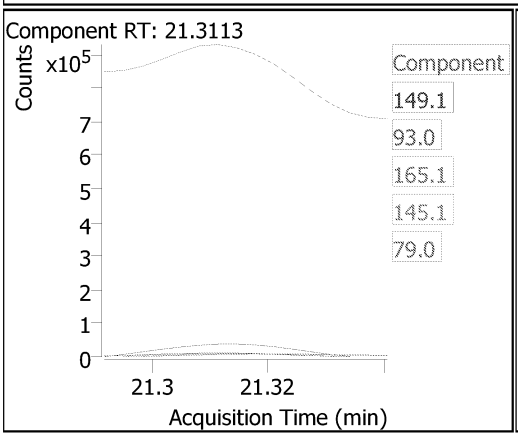



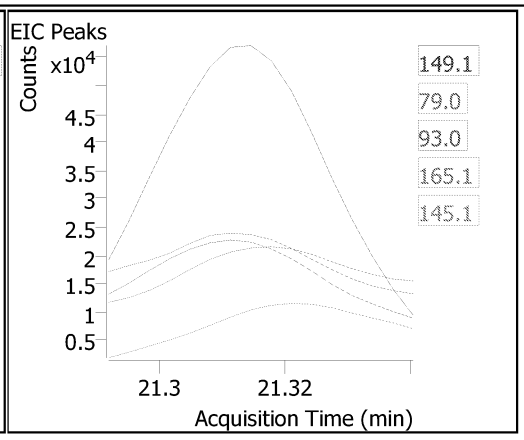
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.3113 | 2-(3-Methylbuta-1,3-dienyl)cyclohexanone | 2190464.6 | 74.9 | 1000191-75-5 | C11H16O | 4.739 |

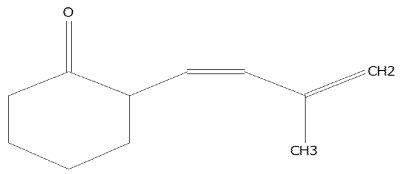


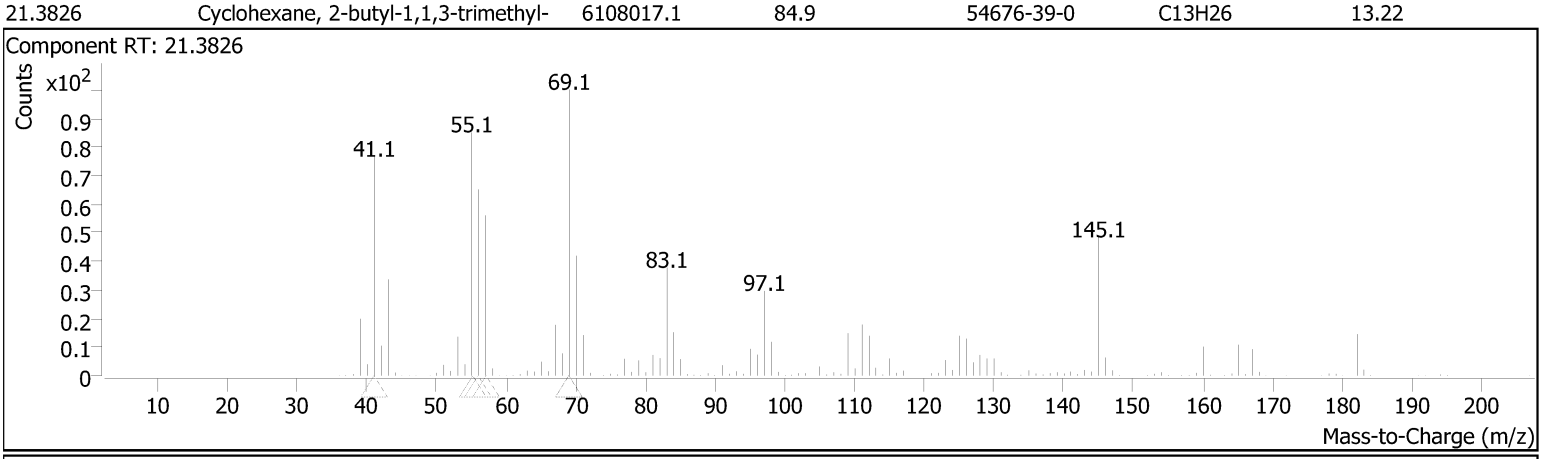



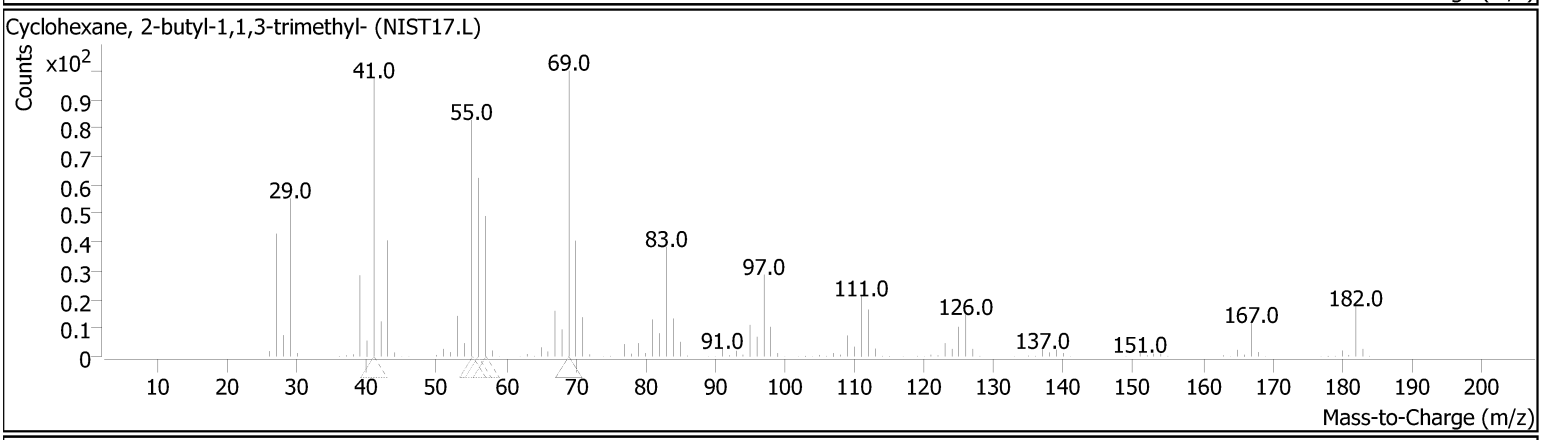



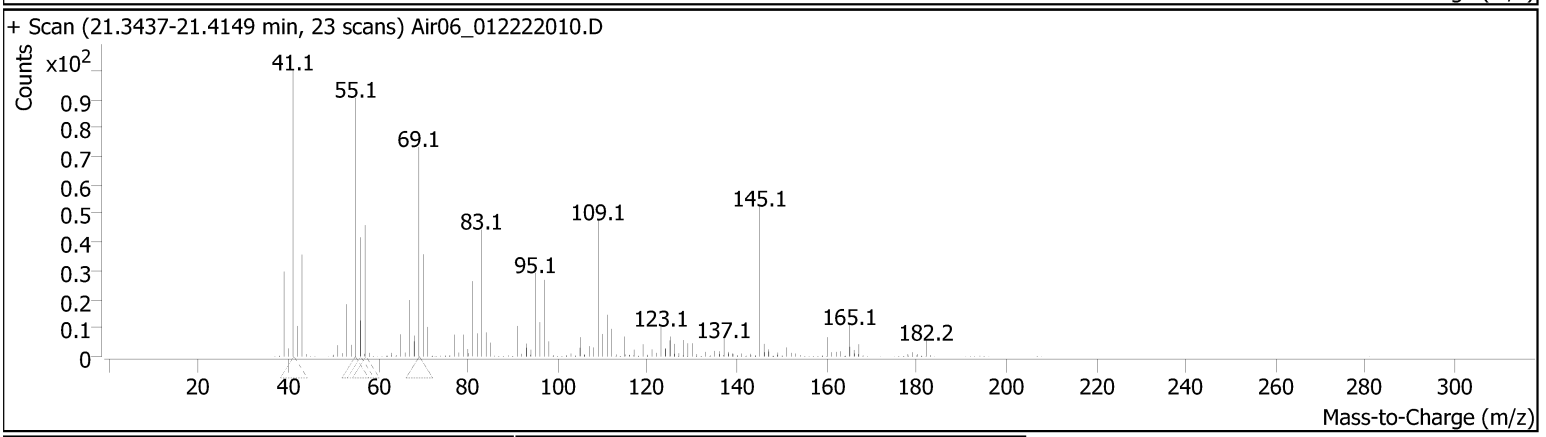



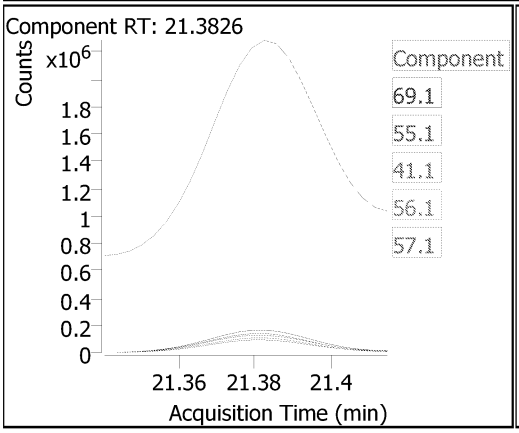



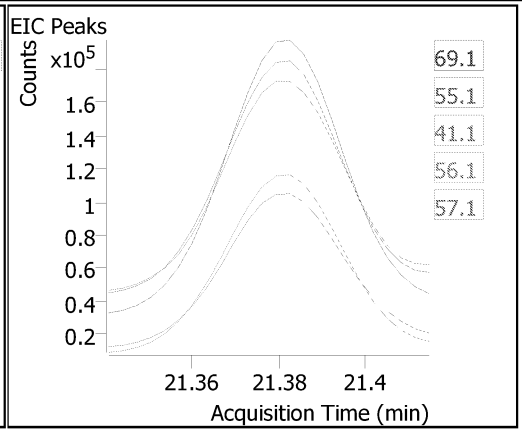
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.3826 | Cyclohexane, 2-butyl-1,1,3-trimethyl- | 6108017.1 | 84.9 | 54676-39-0 | C13H26 | 13.22 |

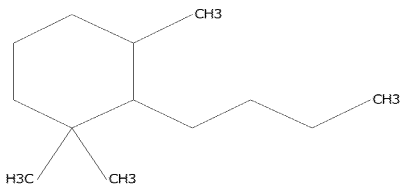


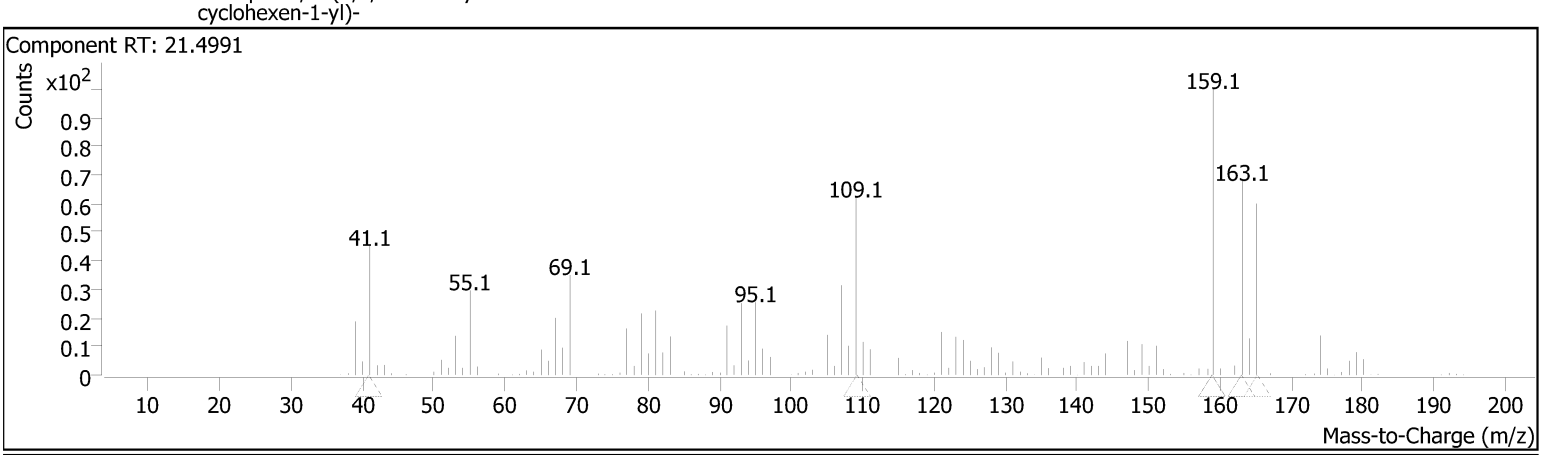



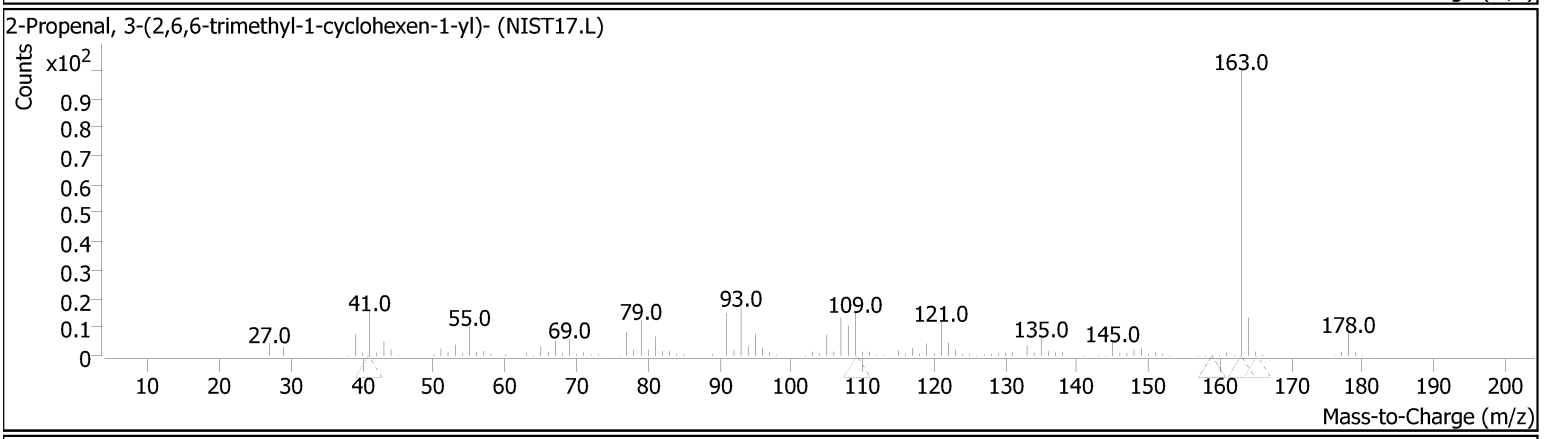



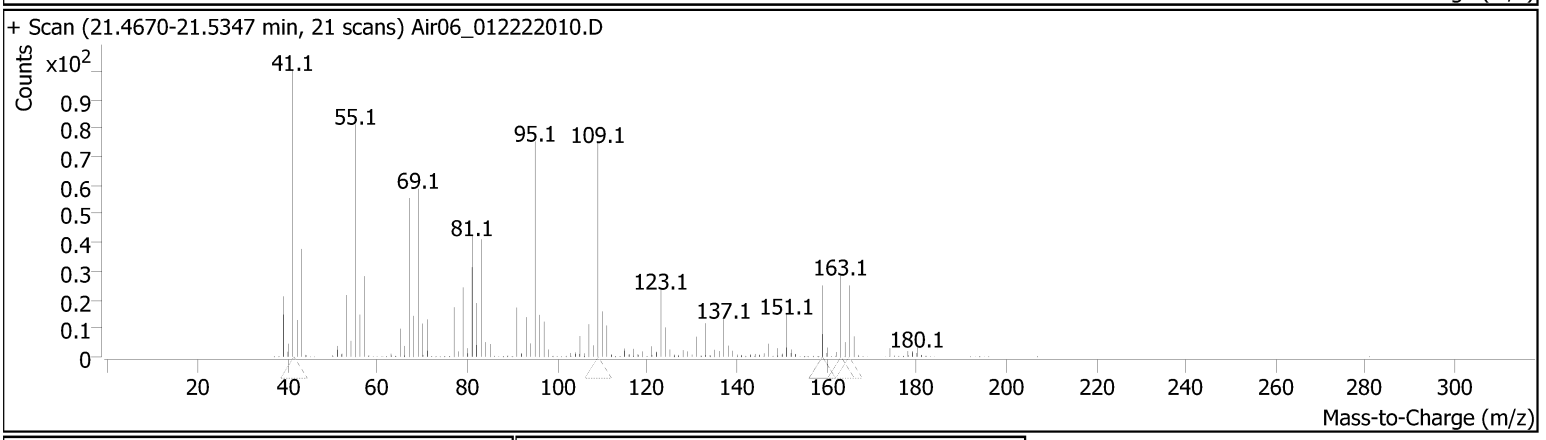



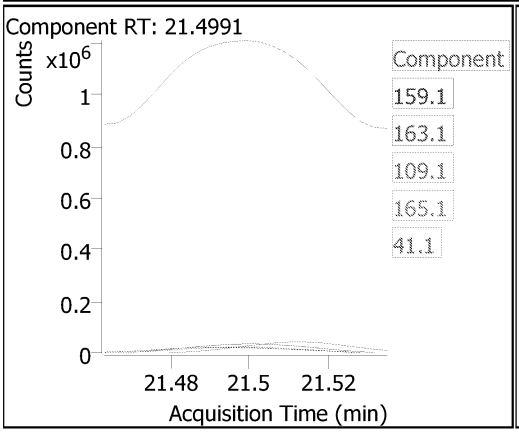



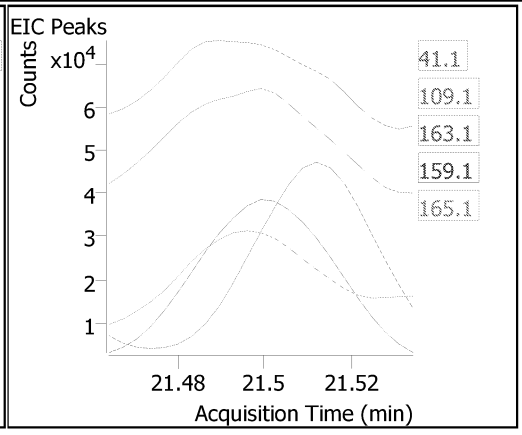
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.4991 | 2-Propenal, 3-(2,6,6-trimethyl-1-cyclohexen-1-yl)- | 4128288.2 | 71.7 | 4951-40-0 | C12H18O | 8.932 |

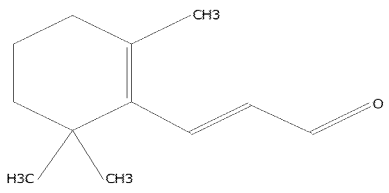


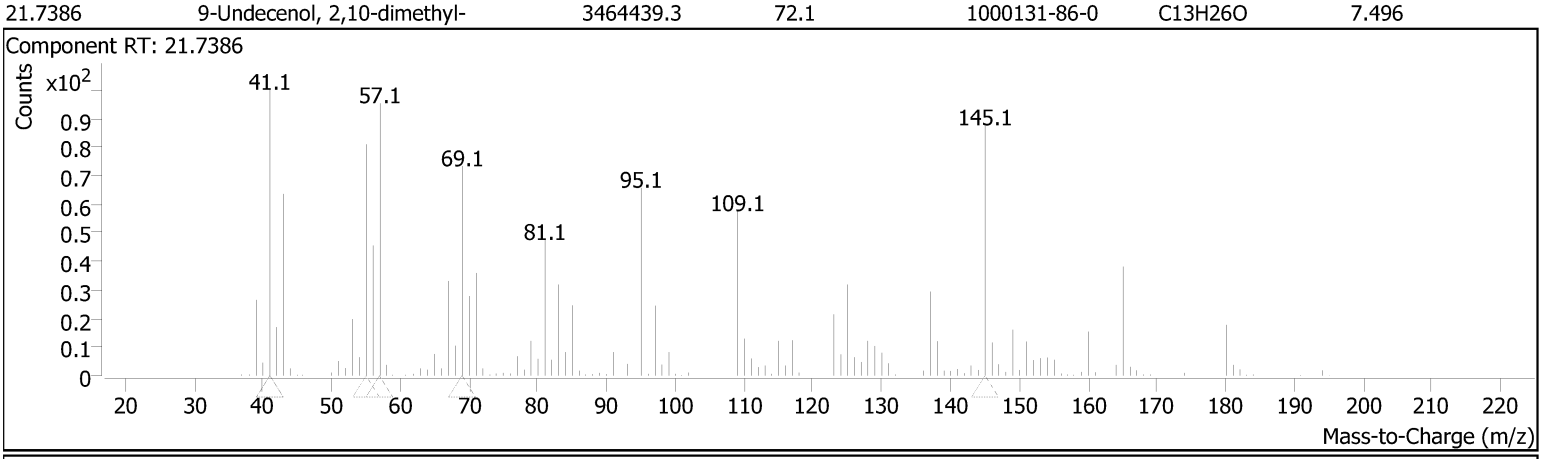



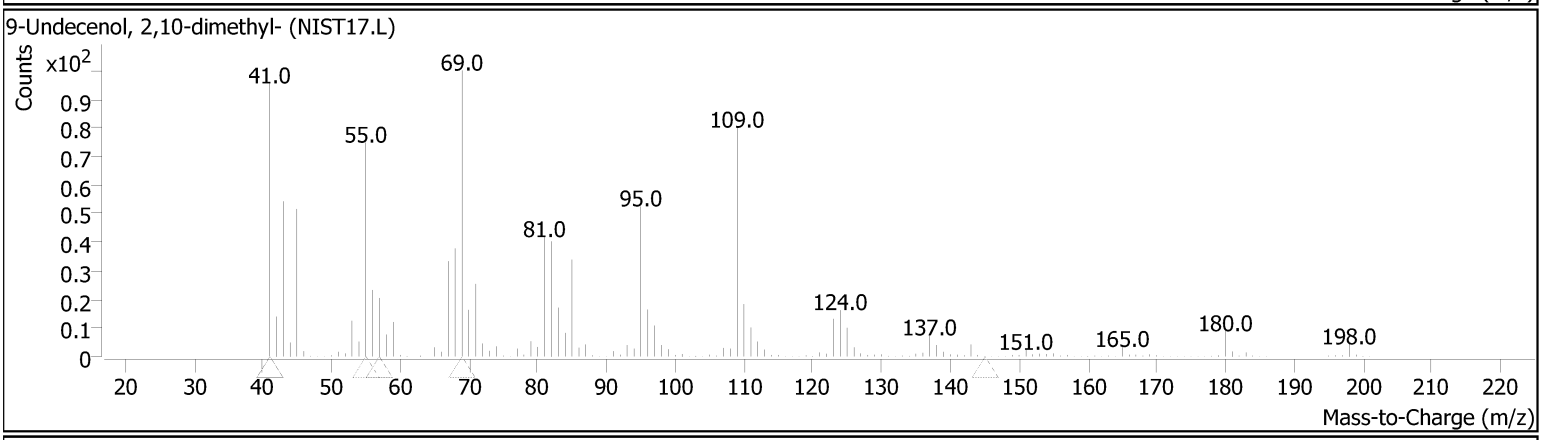



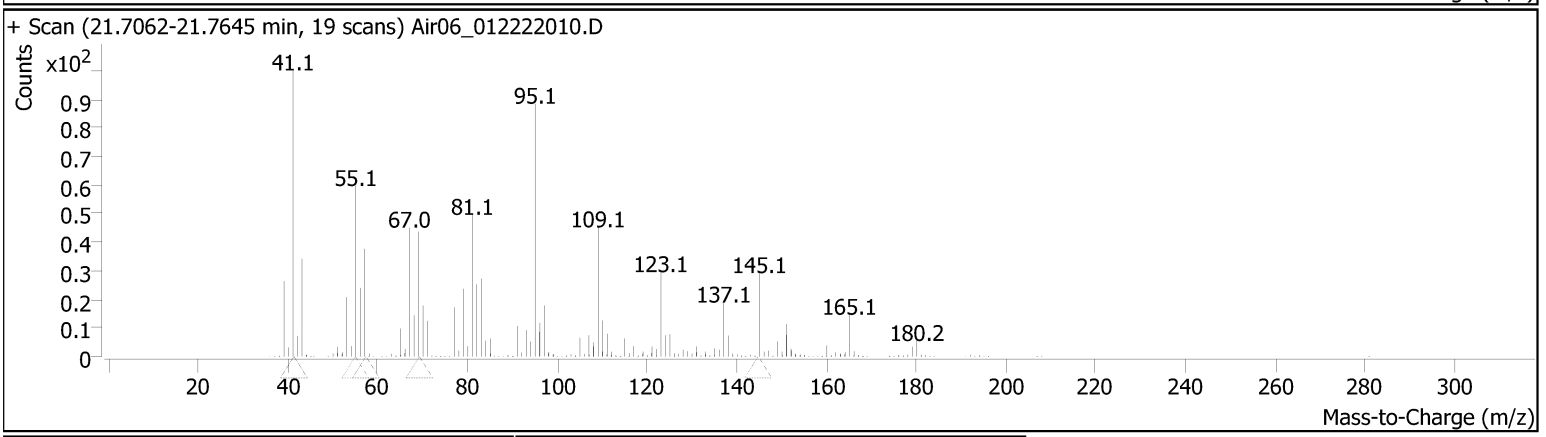
# Library Search Results - NonTarget Hits with Details

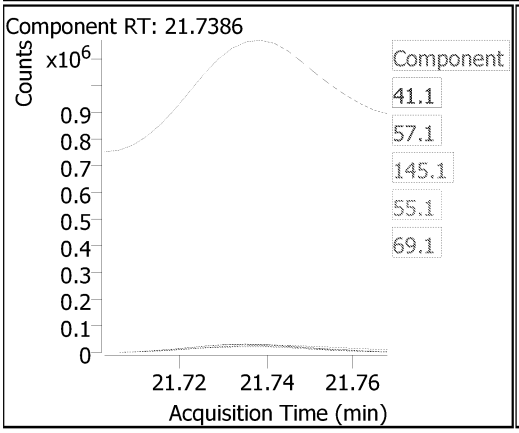
Agilent Technologies

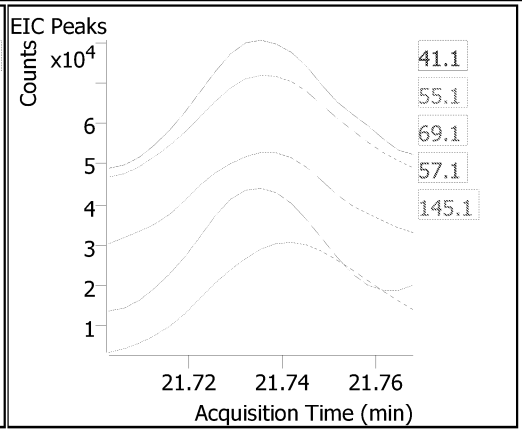
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7386 | 9-Undecenol, 2,10-dimethyl- | 3464439.3 | 72.1 | 1000131-86-0 | C13H26O | 7.496 |

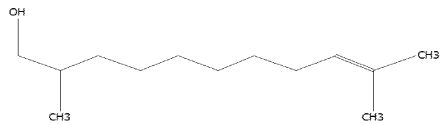


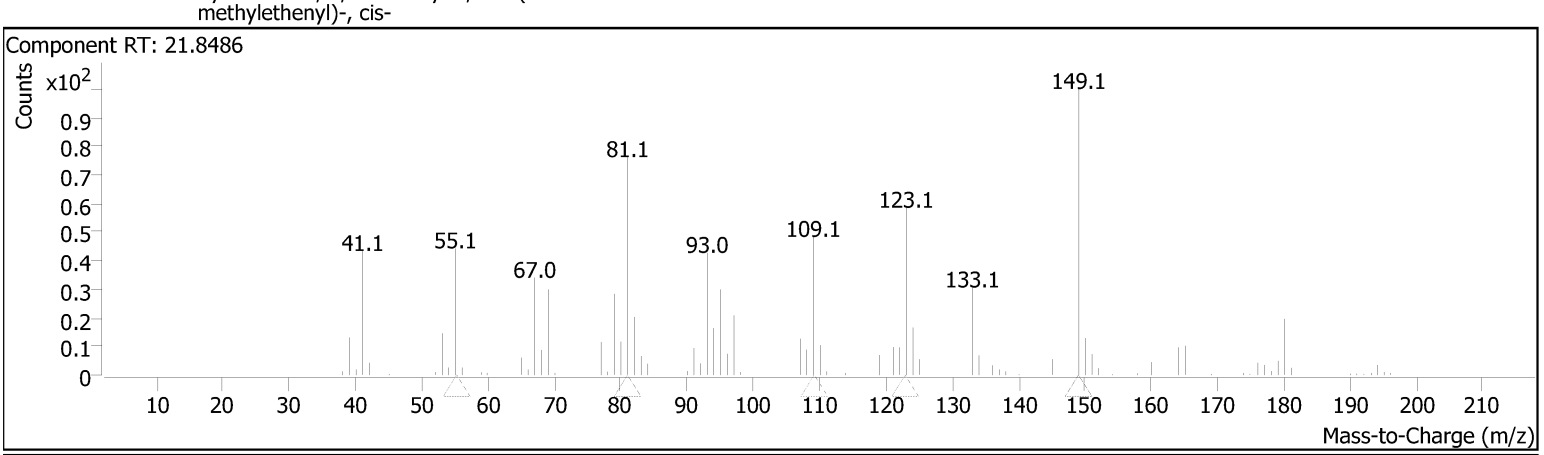



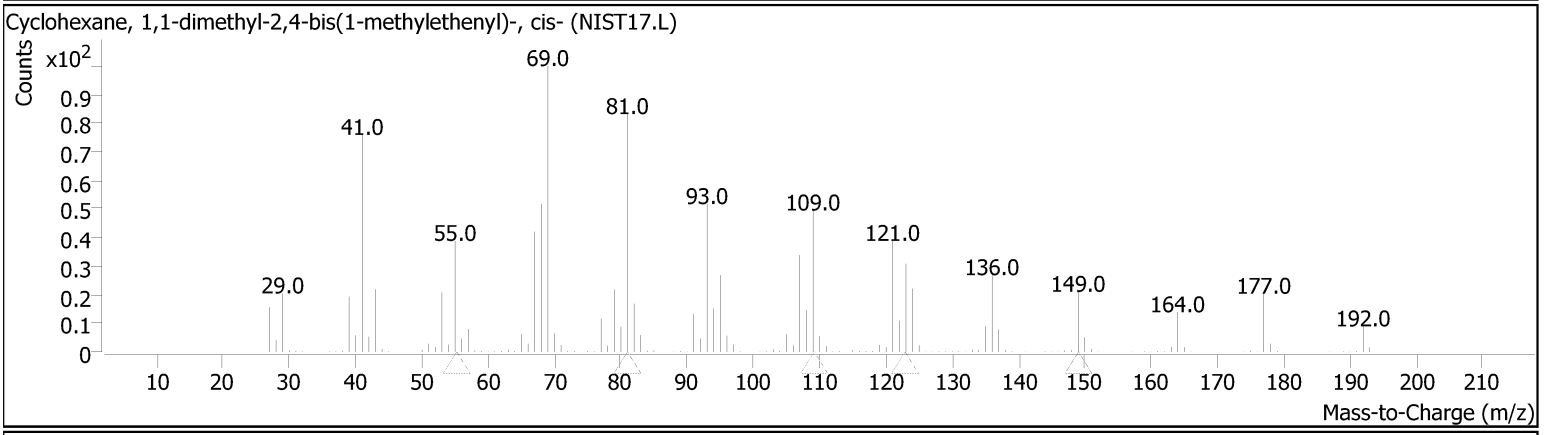



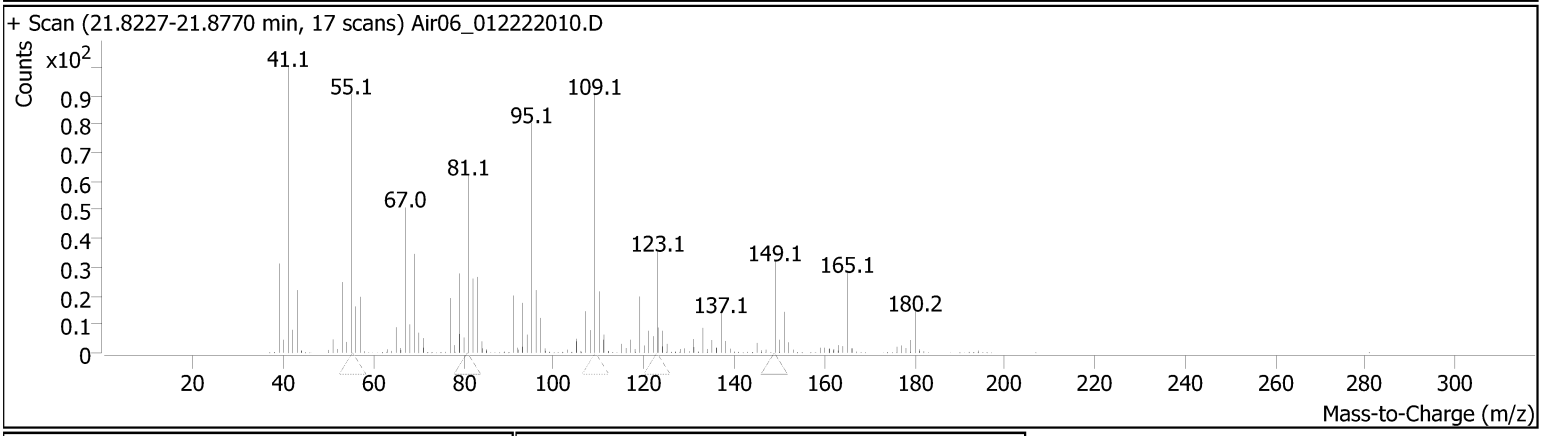



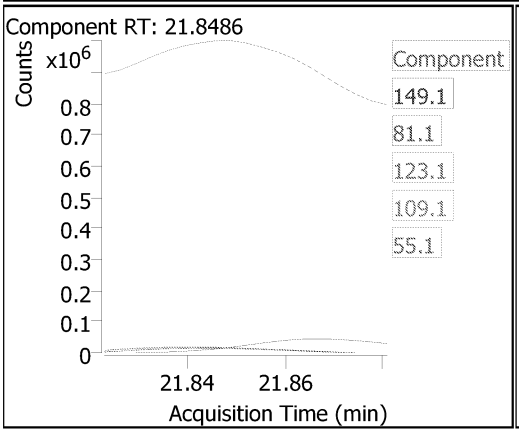



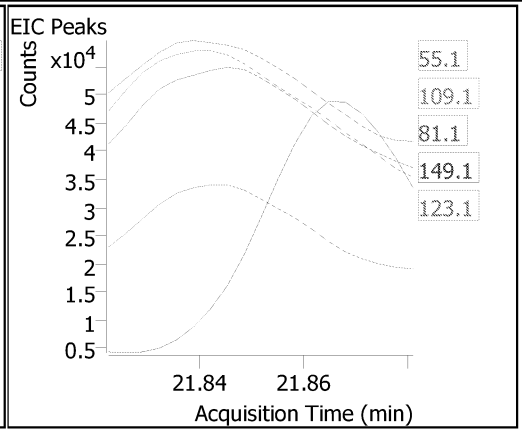
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.8486 | Cyclohexane, 1,1-dimethyl-2,4-bis(1-methylethenyl)-, cis- | 2929865.0 | 73.2 | 62337-98-8 | C14H24 | 6.339 |

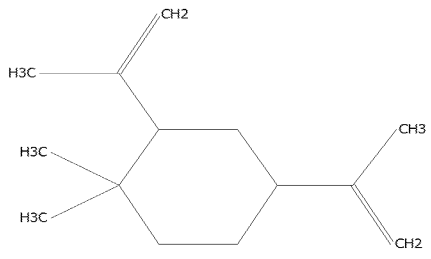


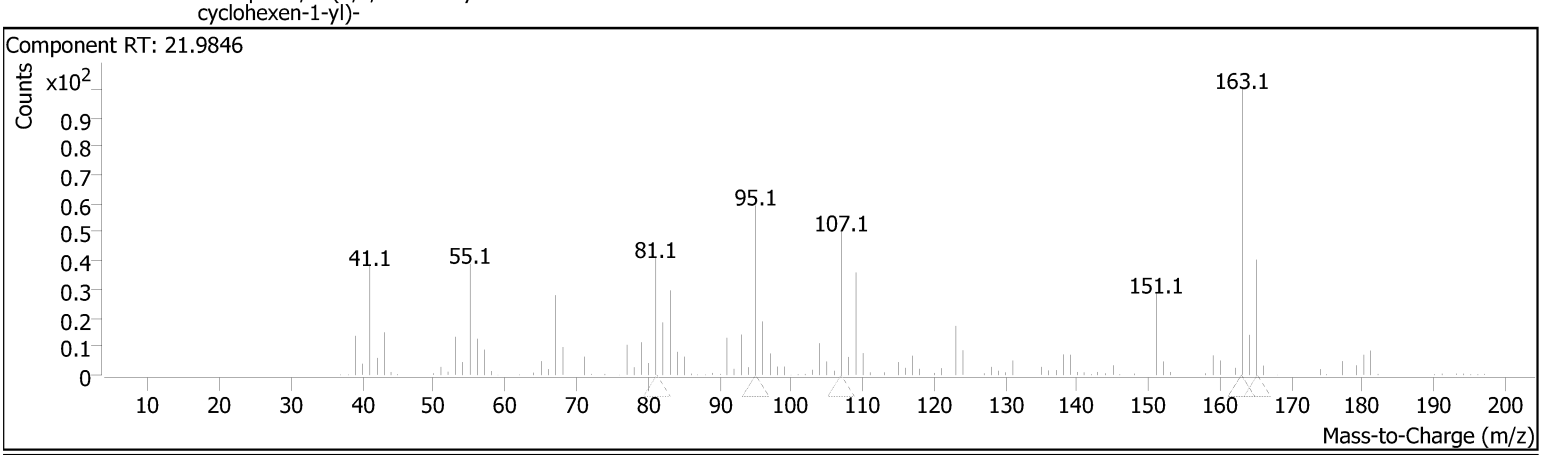



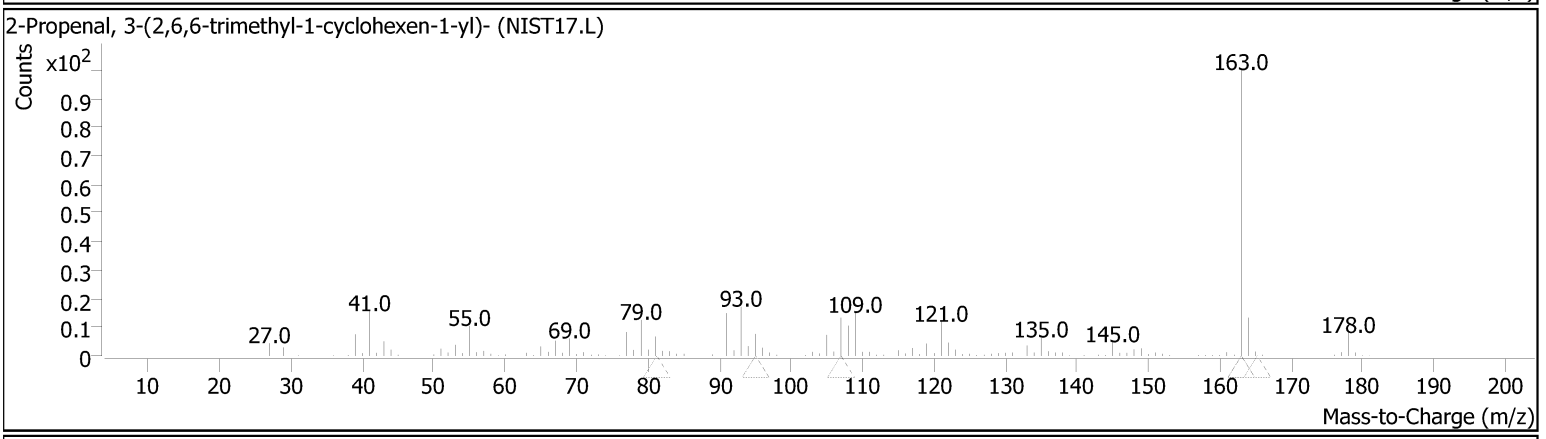



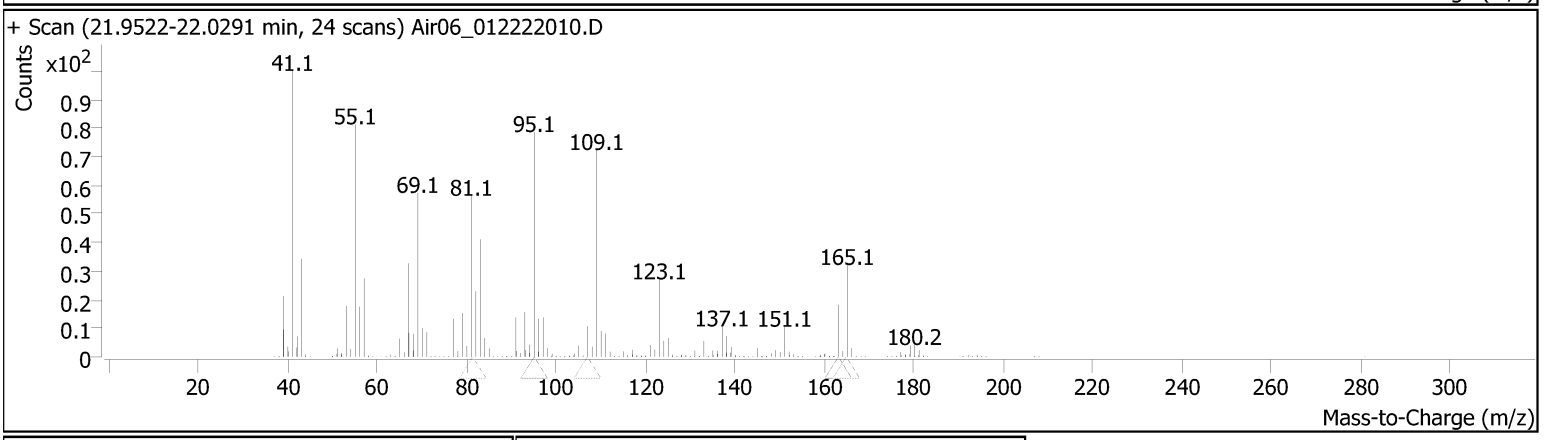



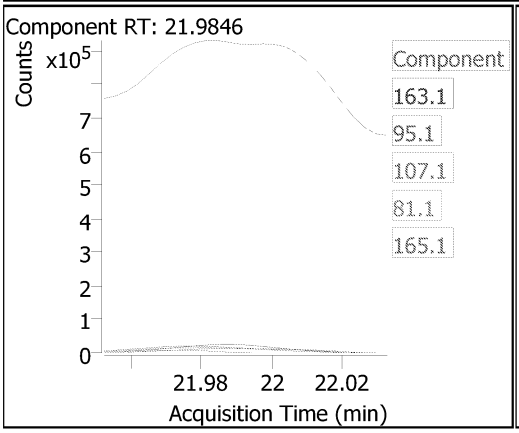
Agilent Technologies

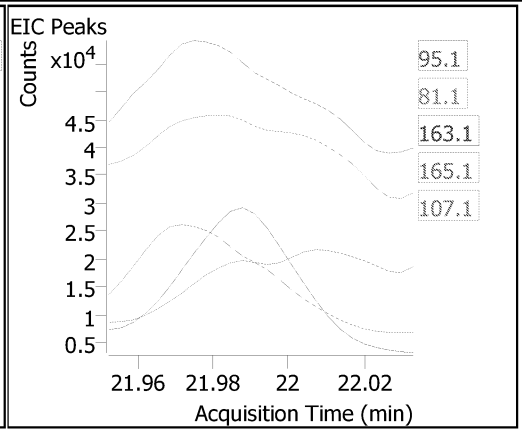
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.9846 | 2-Propenal, 3-(2,6,6-trimethyl-1-cyclohexen-1-yl)- | 3619286.8 | 71.8 | 4951-40-0 | C12H18O | 7.831 |

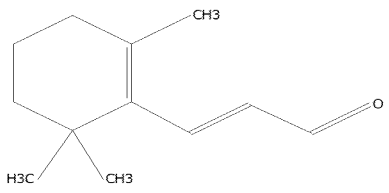


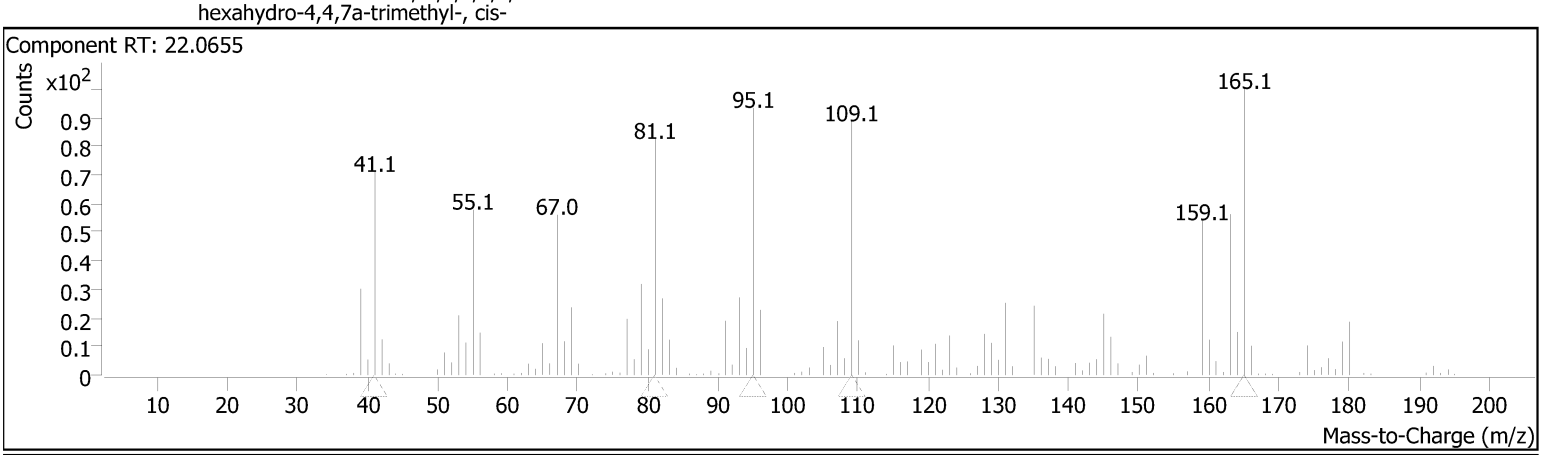



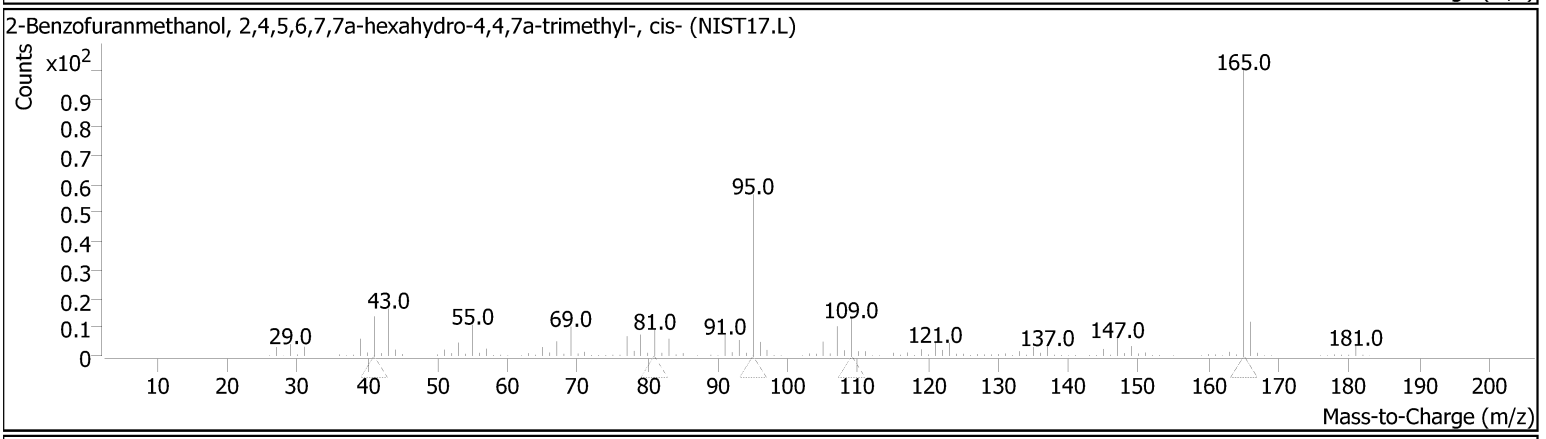



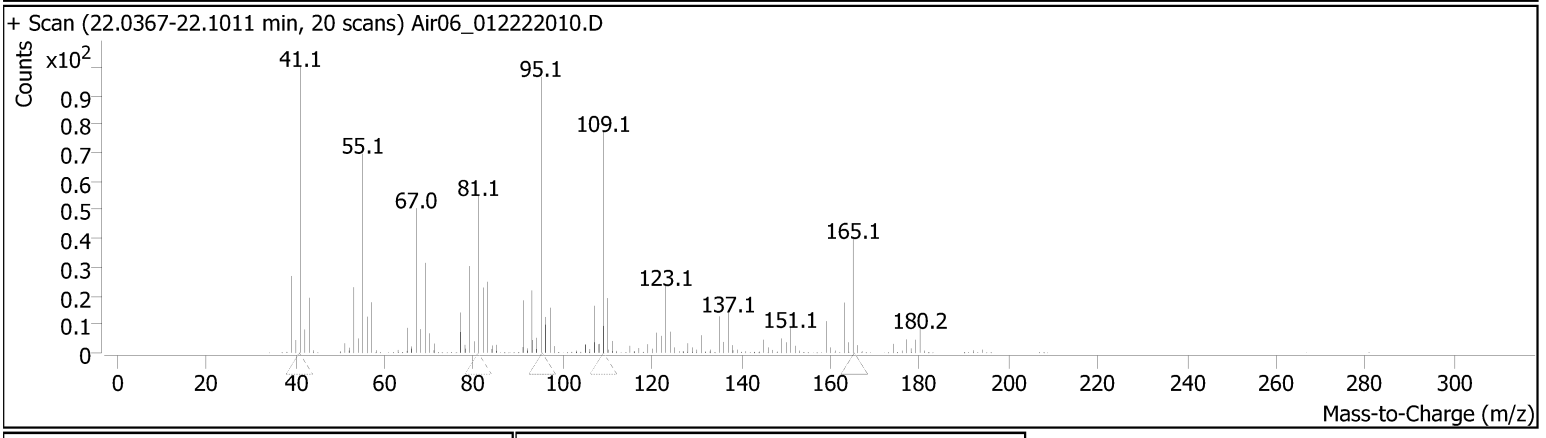
# Library Search Results - NonTarget Hits with Details

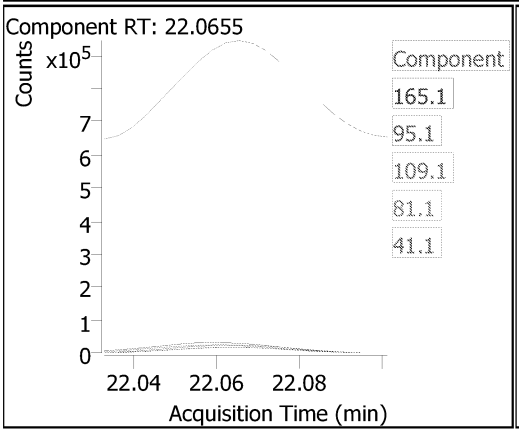
Agilent Technologies

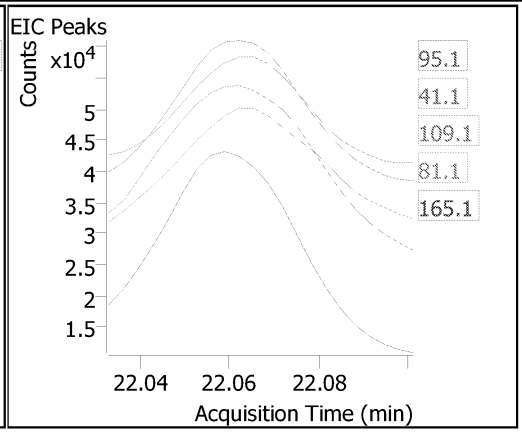
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.0655 | 2-Benzofuranmethanol, 2,4,5,6,7,7a-hexahydro-4,4,7a-trimethyl-, cis- | 2854761.0 | 74.7 | 77384-15-7 | C12H20O2 | 6.177 |

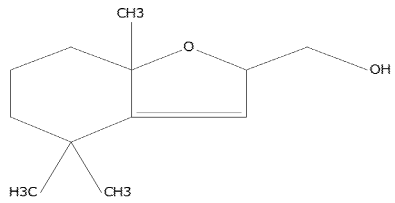


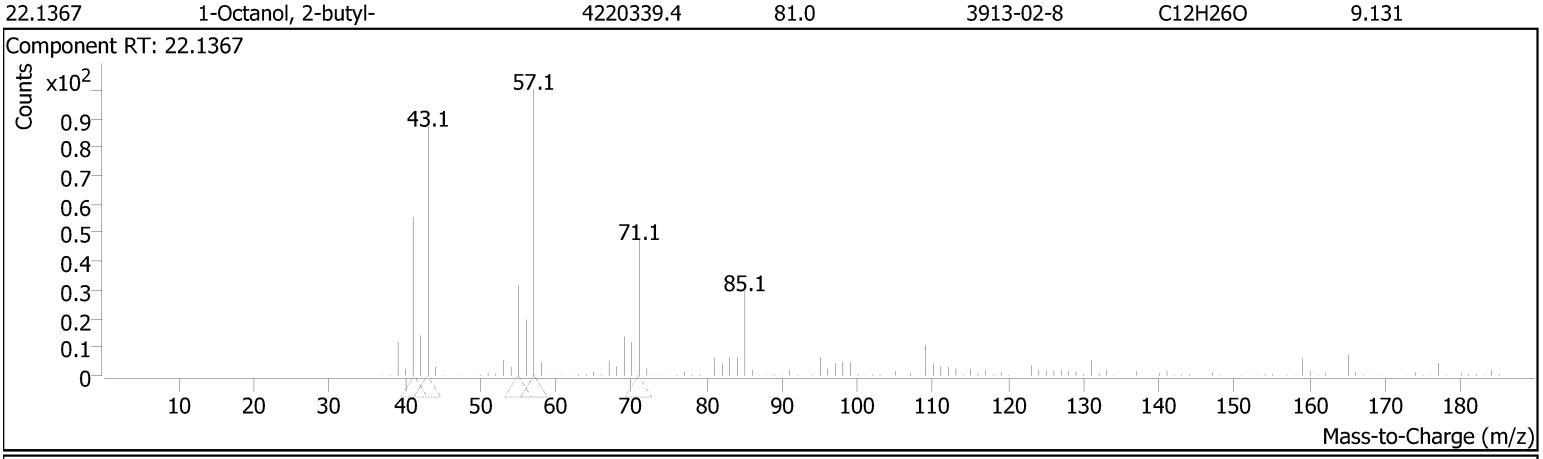



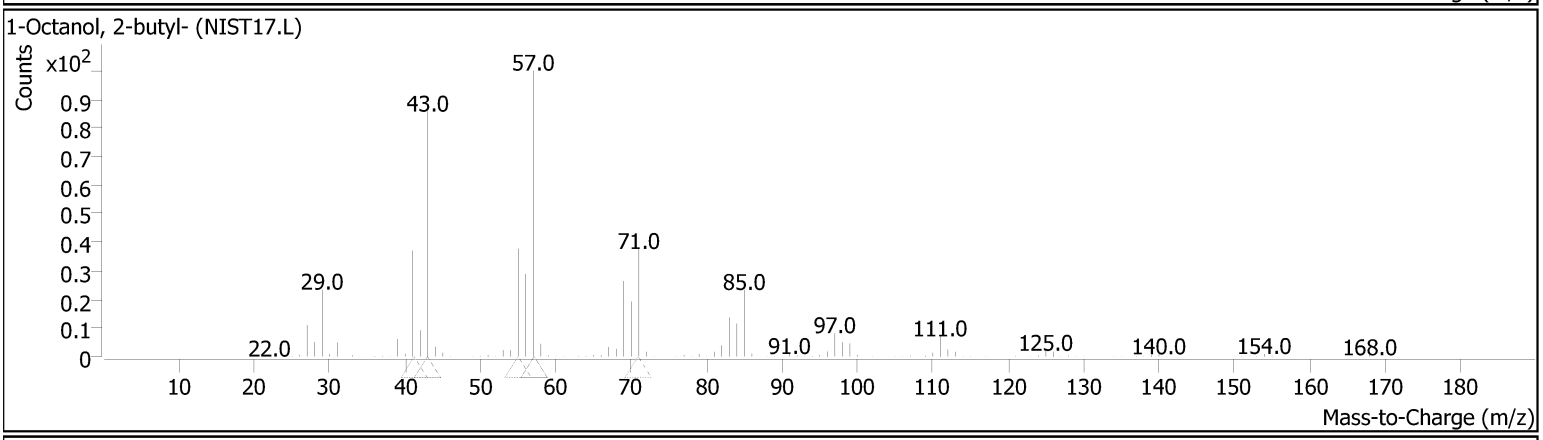



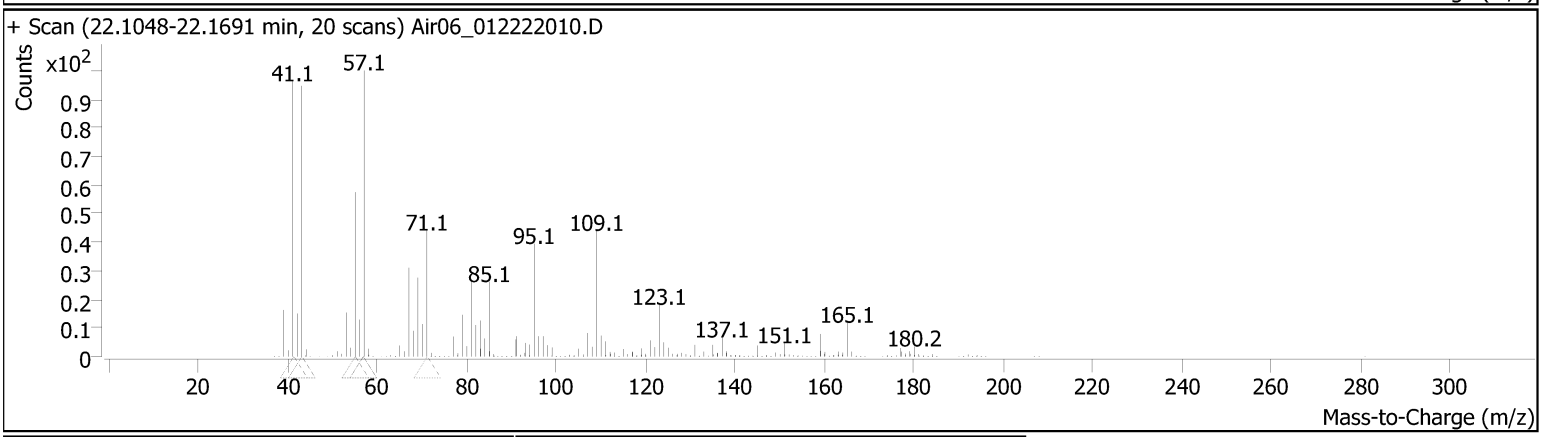
# Library Search Results - NonTarget Hits with Details

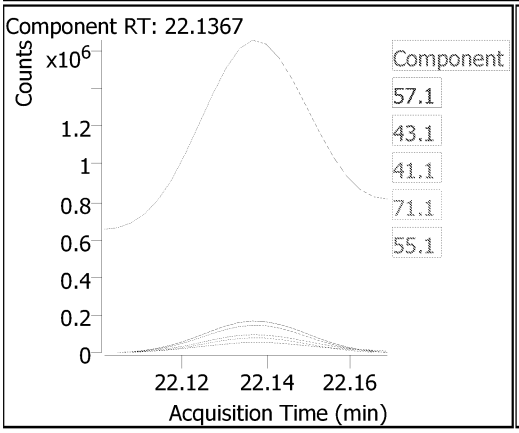
Agilent Technologies

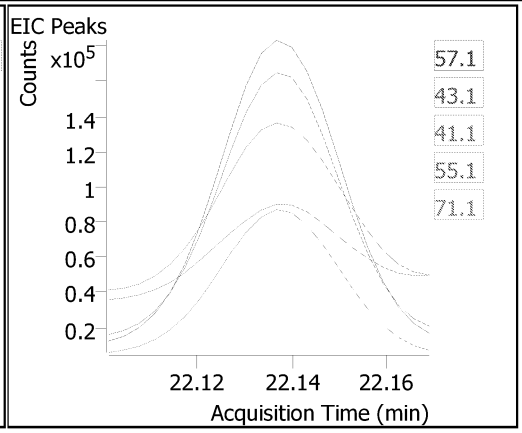
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.1367 | 1-Octanol, 2-butyl- | 4220339.4 | 81.0 | 3913-02-8 | C12H26O | 9.131 |

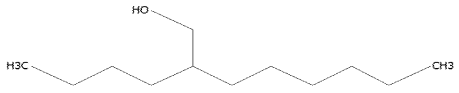


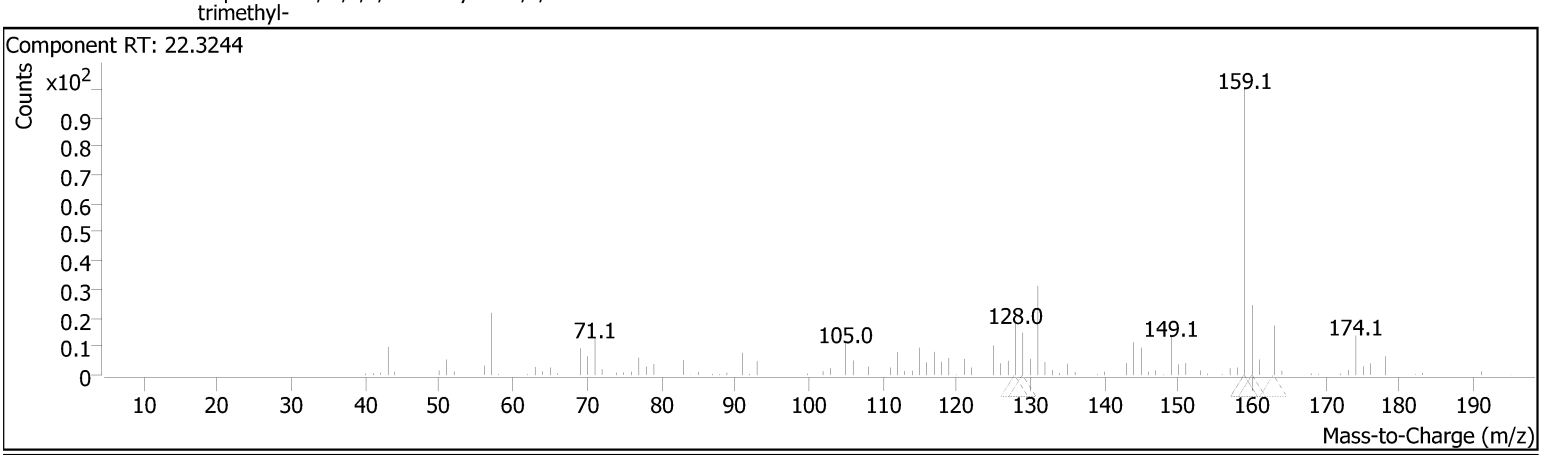



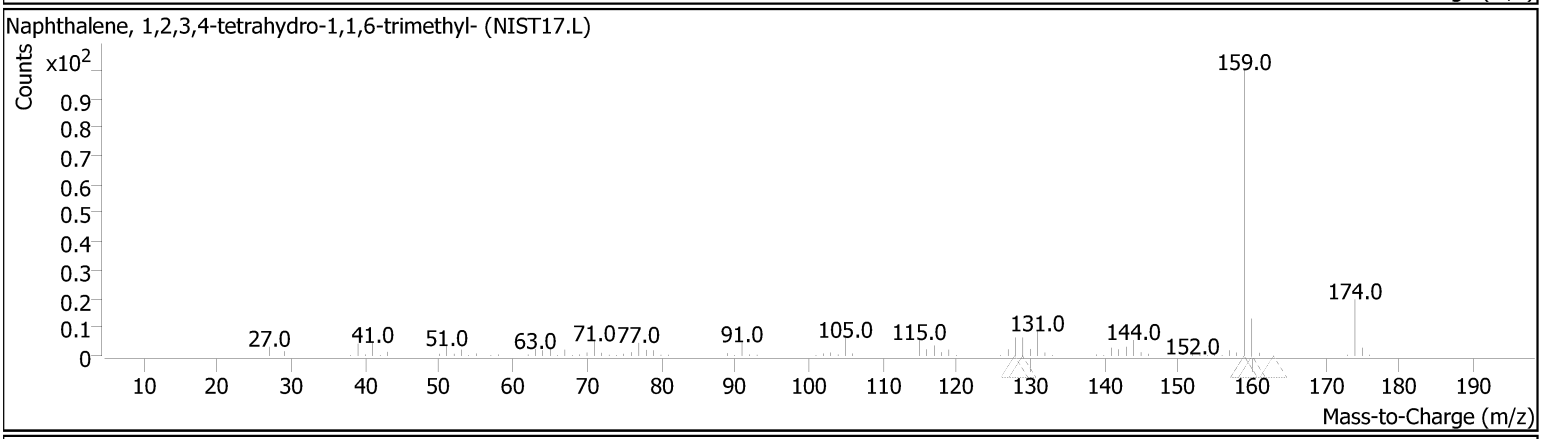



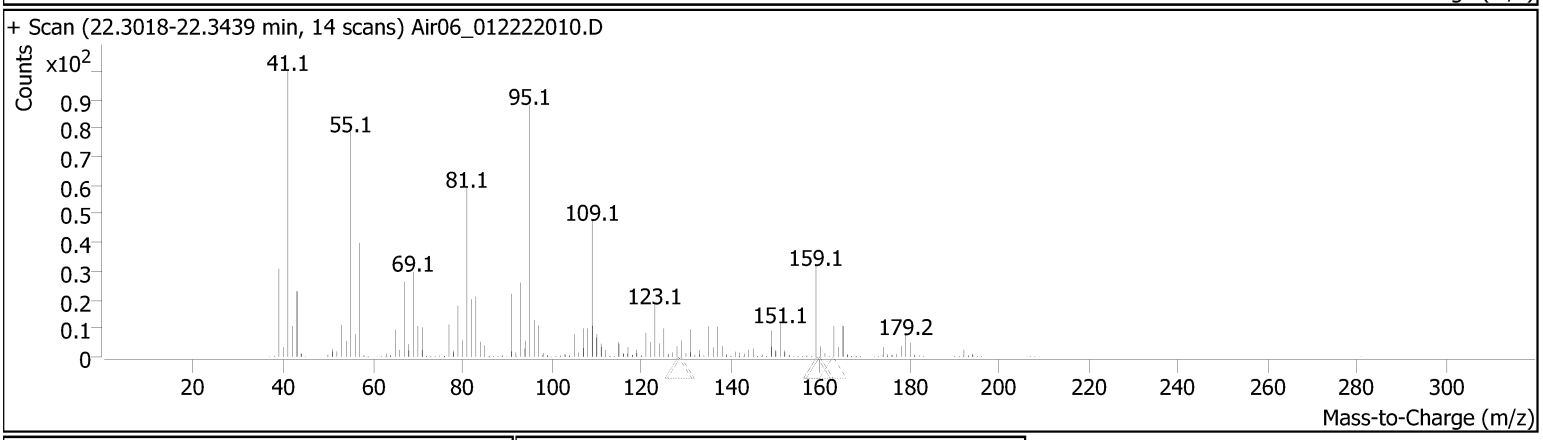
# Library Search Results - NonTarget Hits with Details

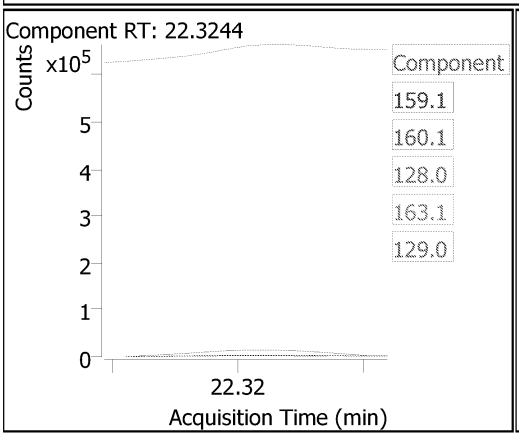
Agilent Technologies

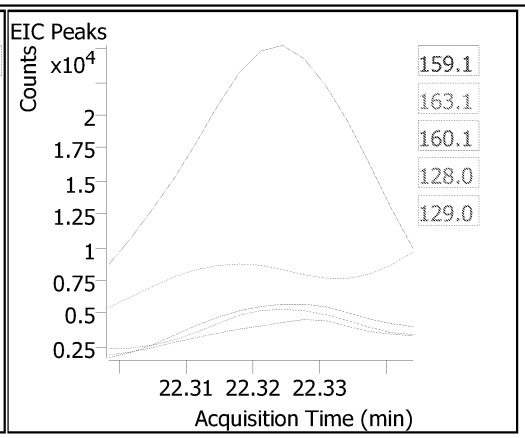
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.3244 | Naphthalene, 1,2,3,4-tetrahydro-1,1,6-trimethyl- | 1507192.6 | 75.0 | 475-03-6 | C13H18 | 3.261 |

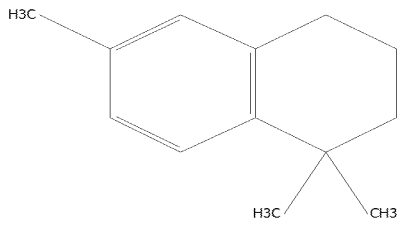


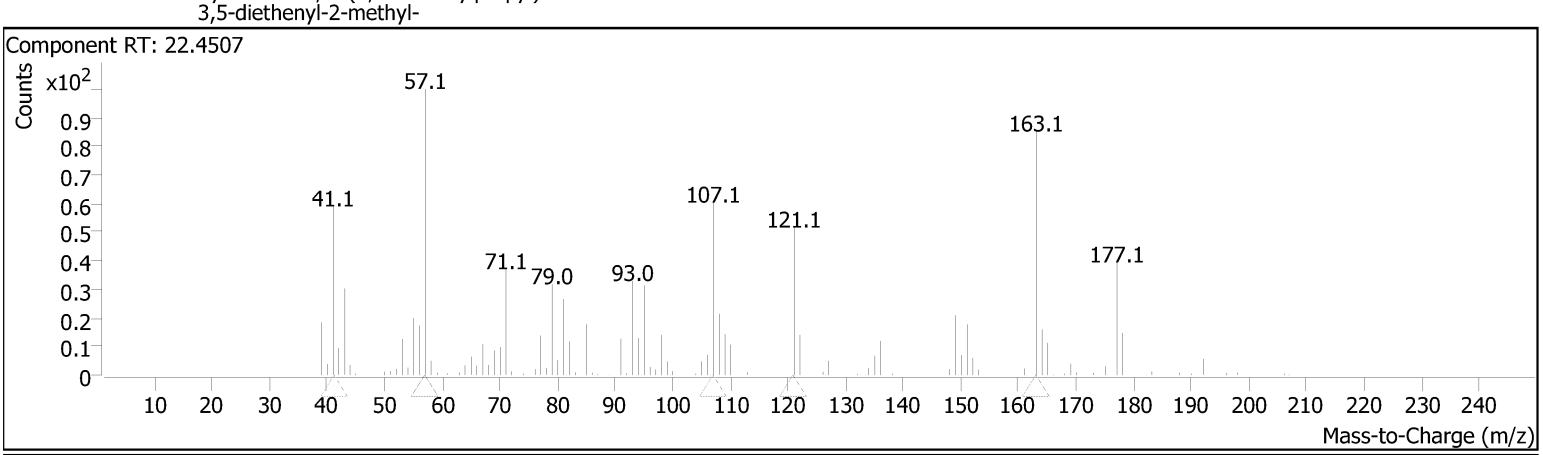



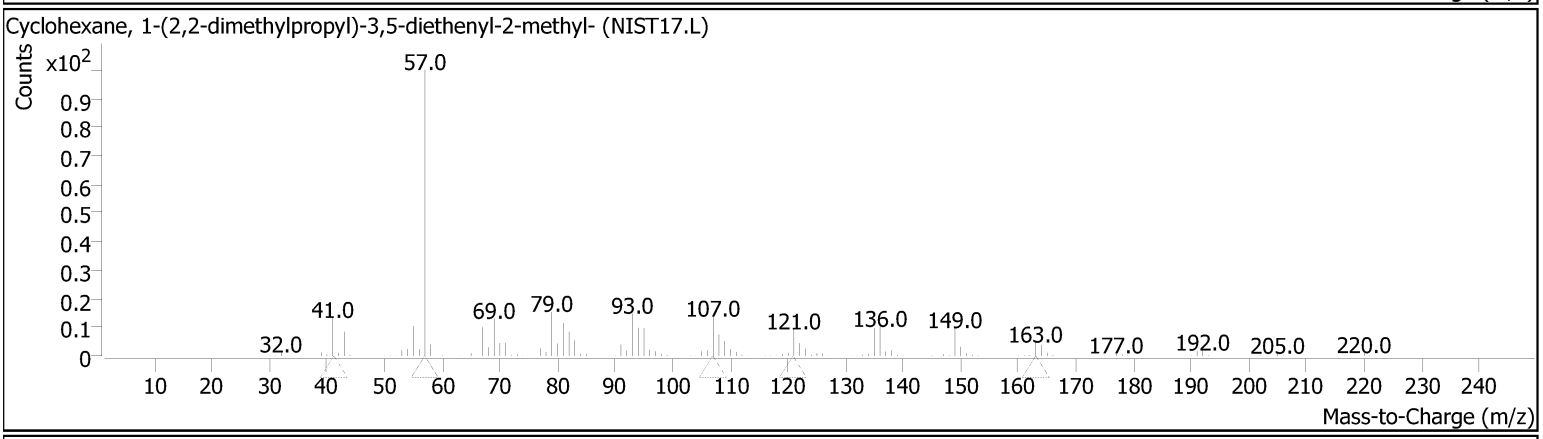



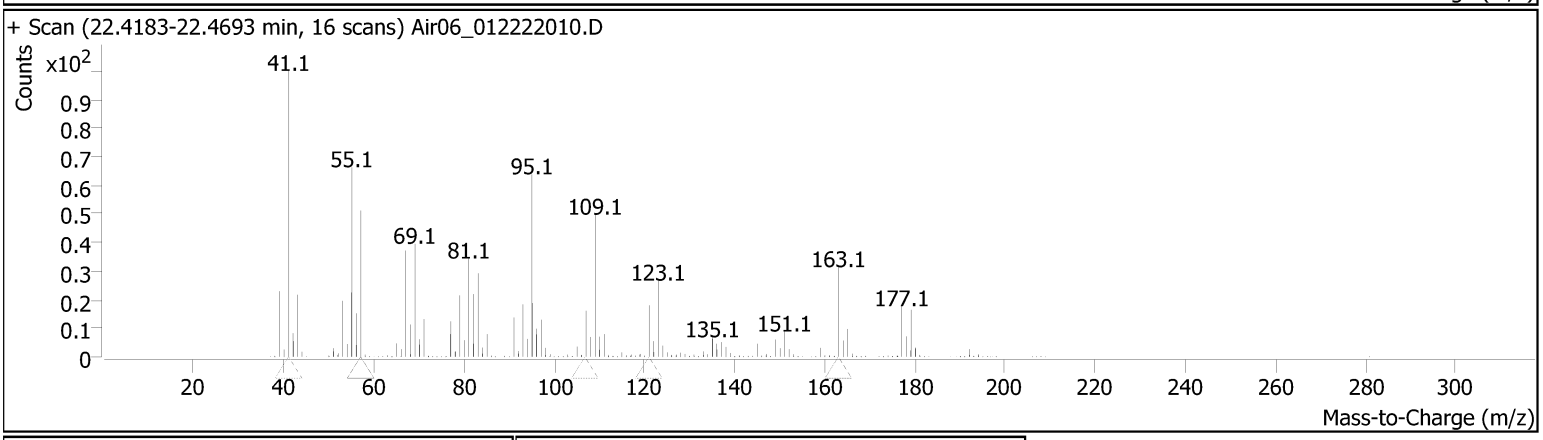



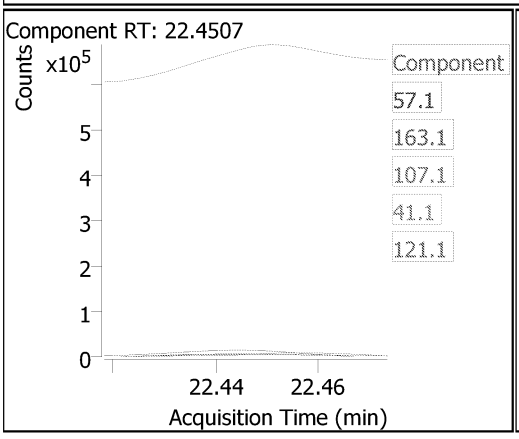



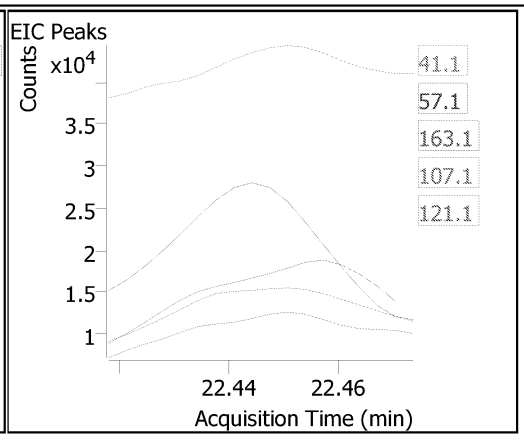
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.4507 | Cyclohexane, 1-(2,2-dimethylpropyl)-3,5-diethenyl-2-methyl- | 1834765.3 | 76.5 | 61141-98-8 | C16H28 | 3.97 |

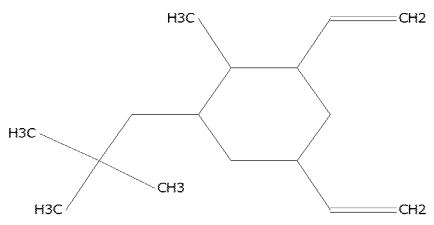


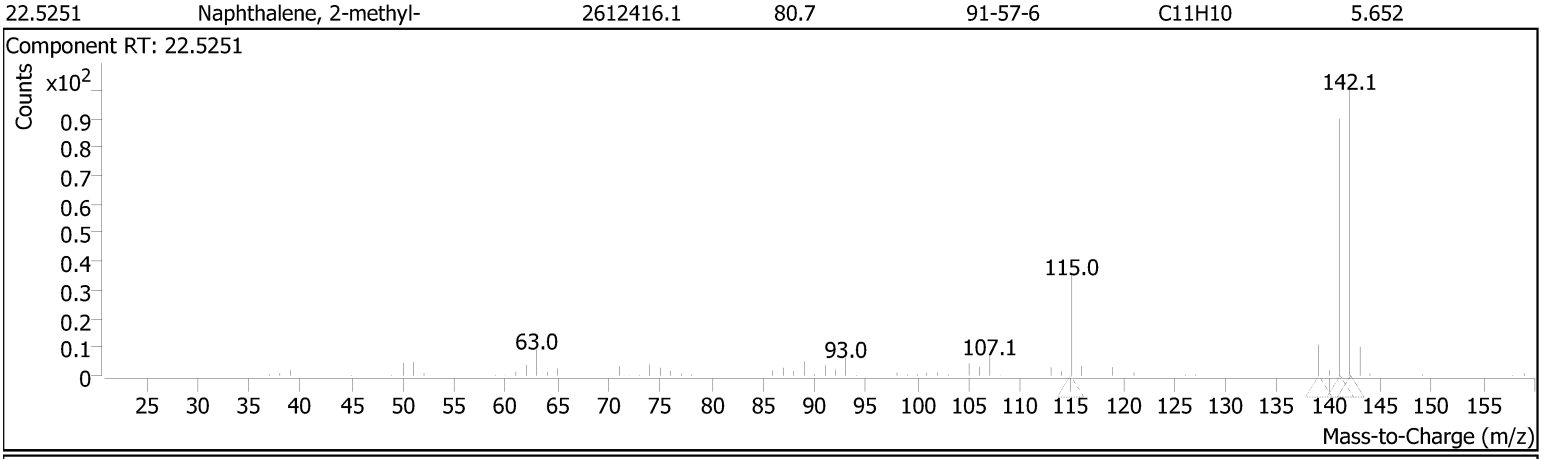



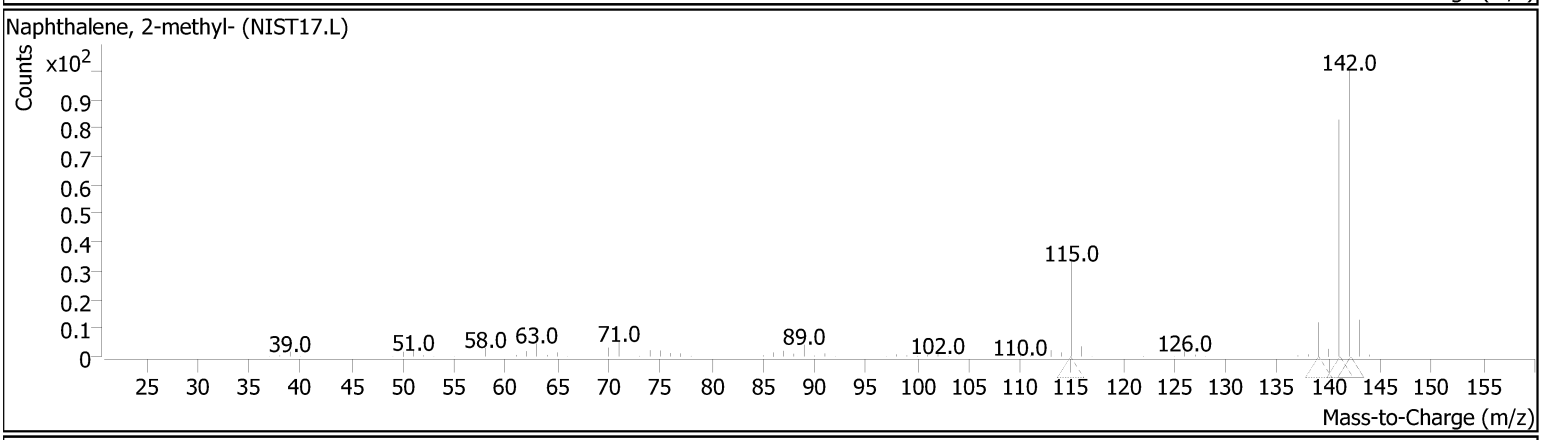



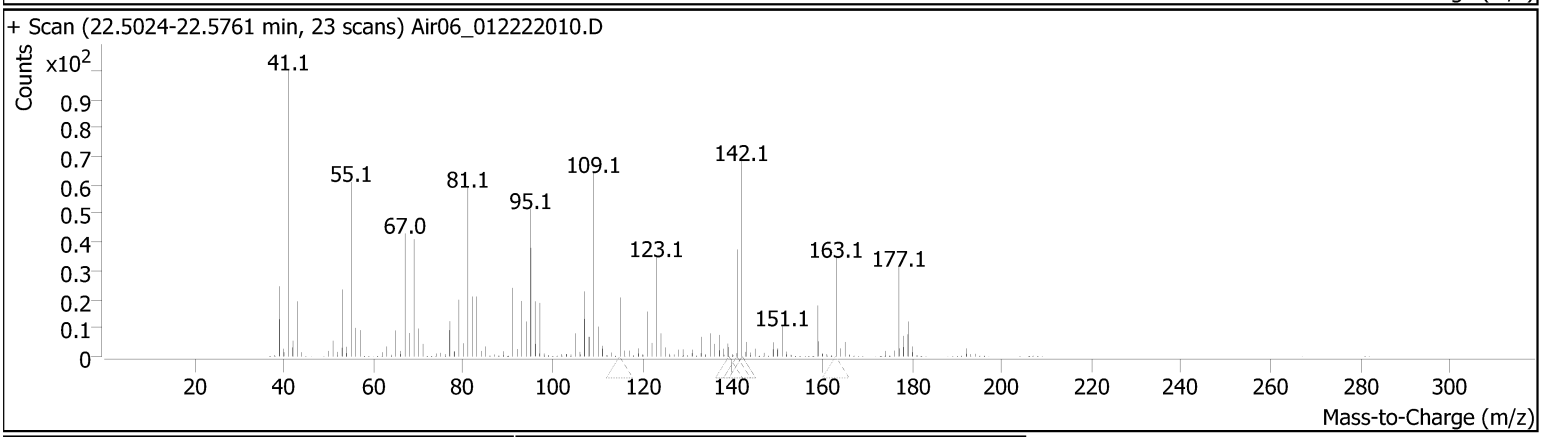



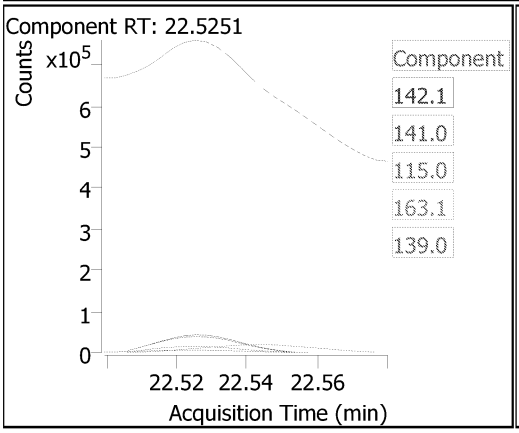



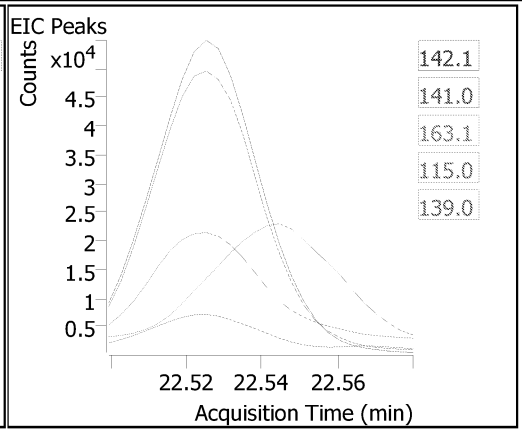
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.5251 | Naphthalene, 2-methyl- | 2612416.1 | 80.7 | 91-57-6 | C11H10 | 5.652 |

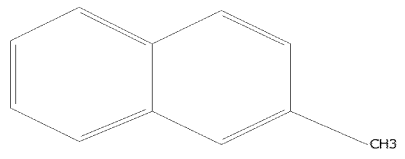


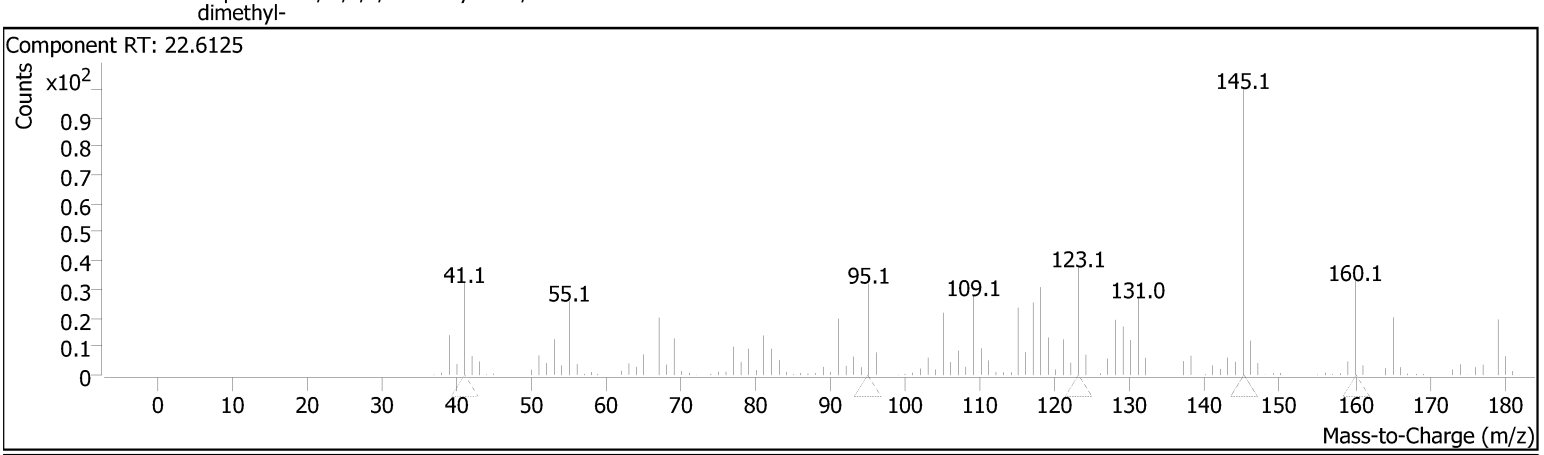



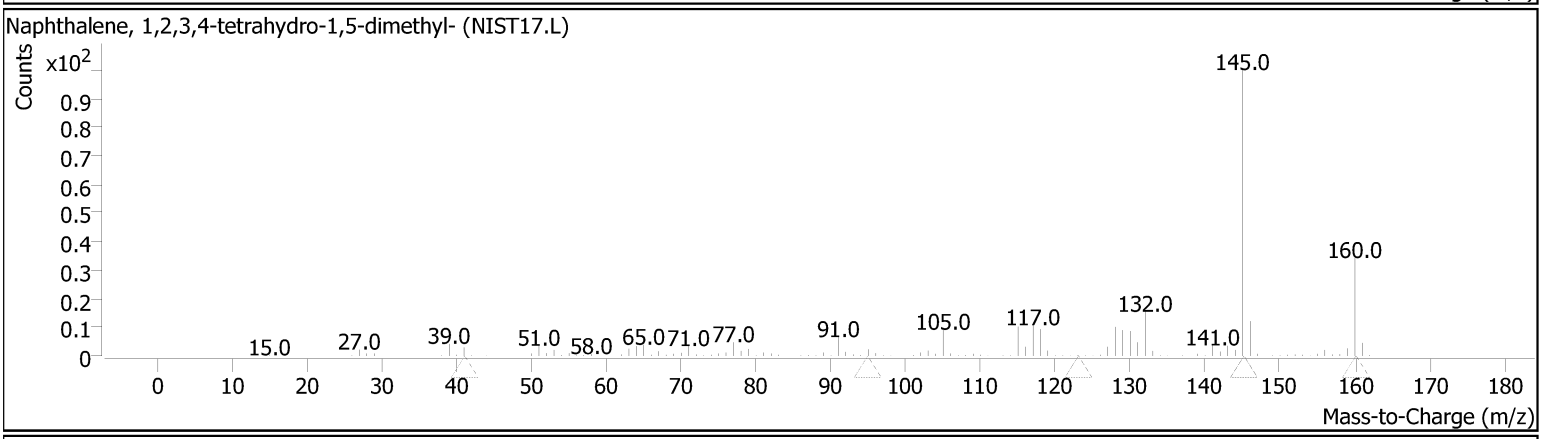



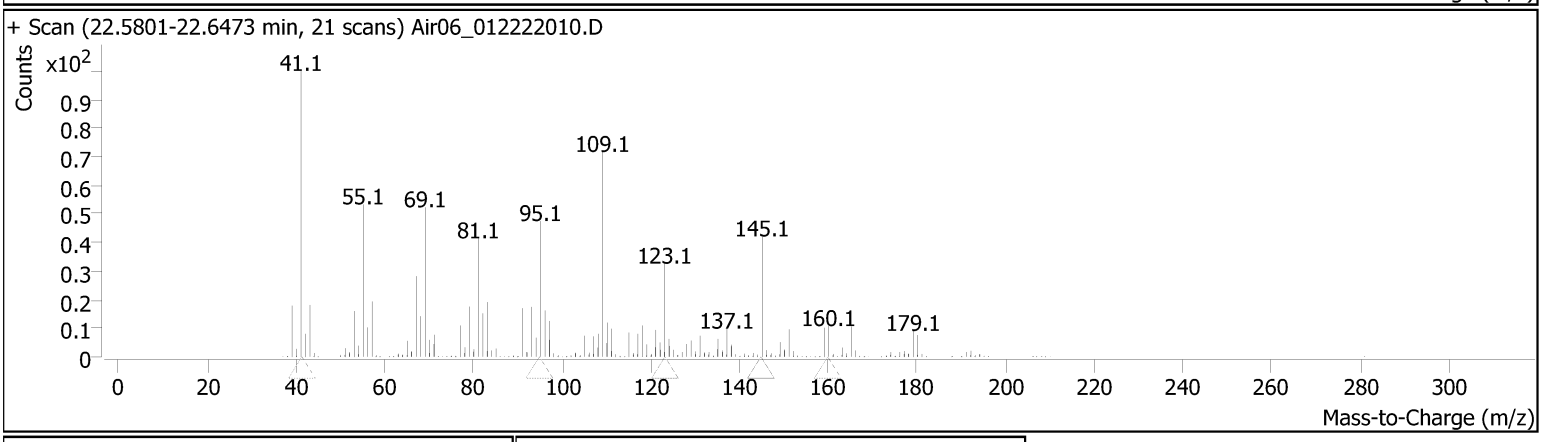
# Library Search Results - NonTarget Hits with Details

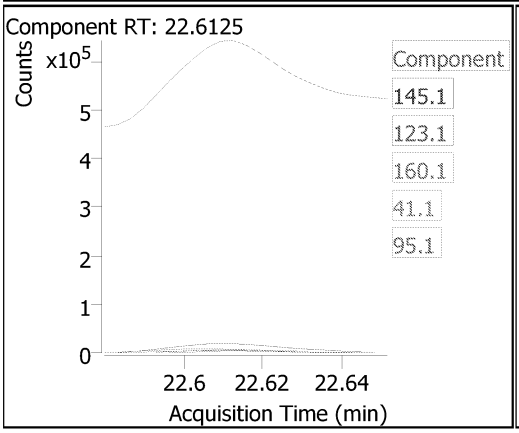
Agilent Technologies

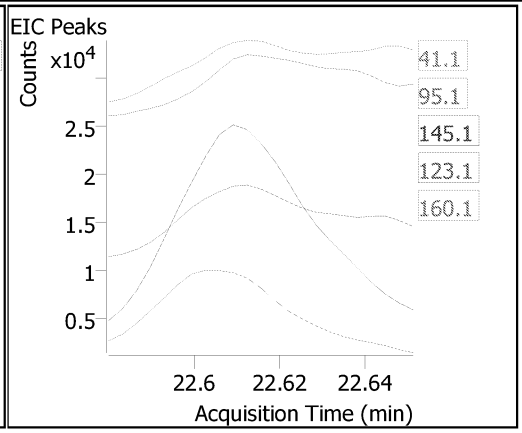
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.6125 | Naphthalene, 1,2,3,4-tetrahydro-1,5-dimethyl- | 1981041.9 | 73.9 | 21564-91-0 | C12H16 | 4.286 |

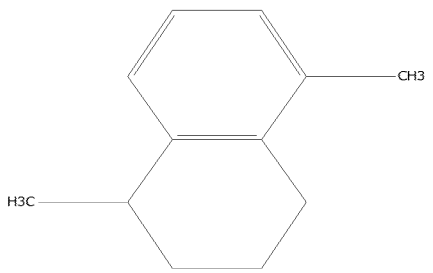


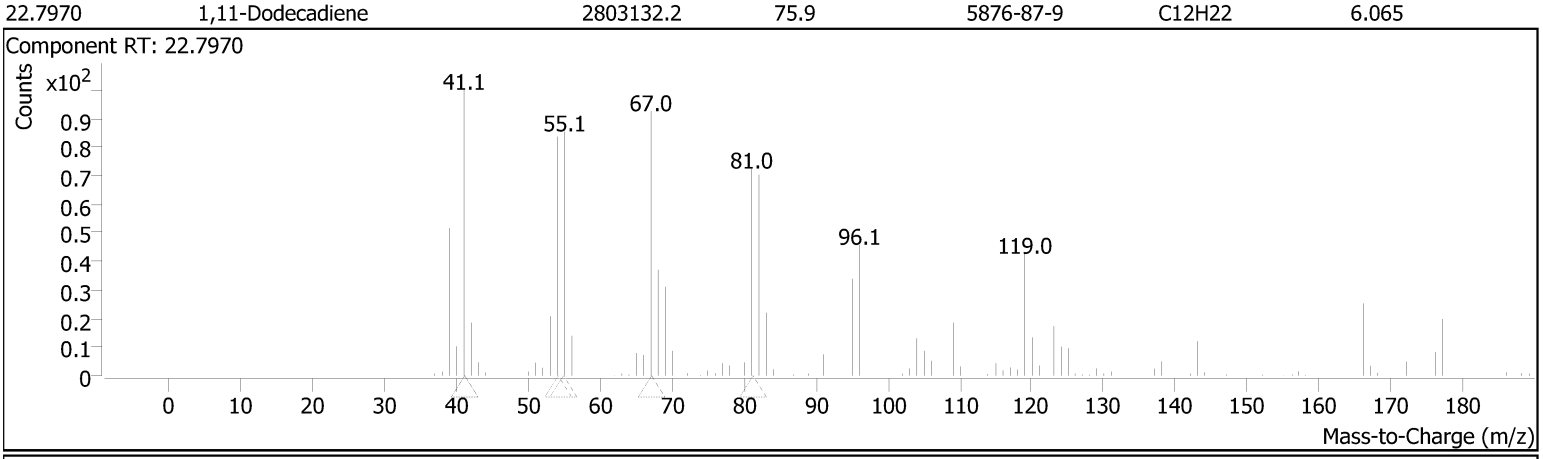



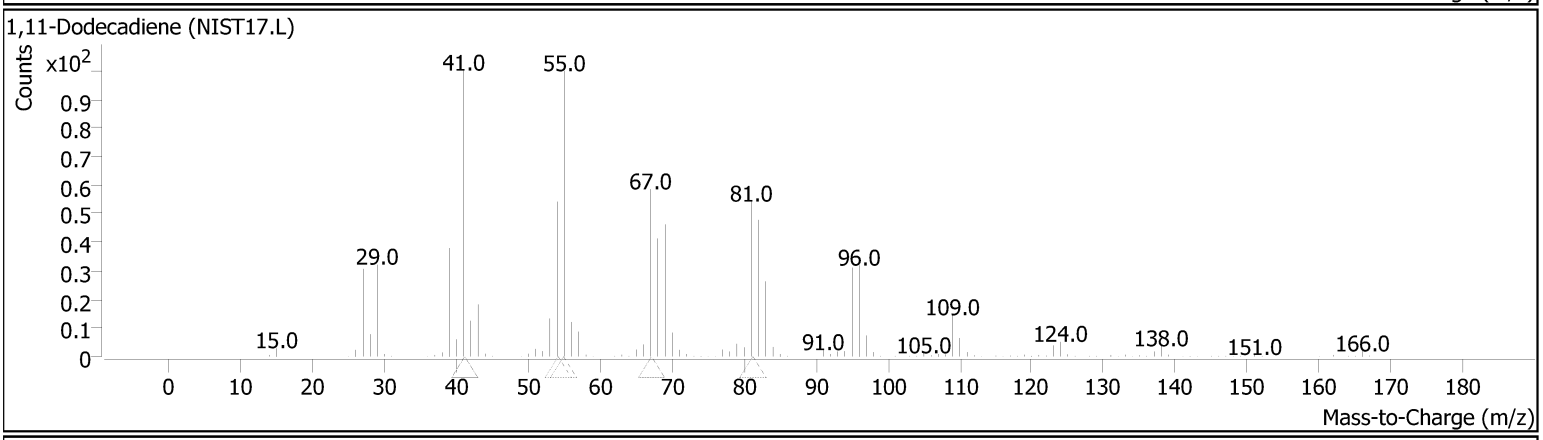



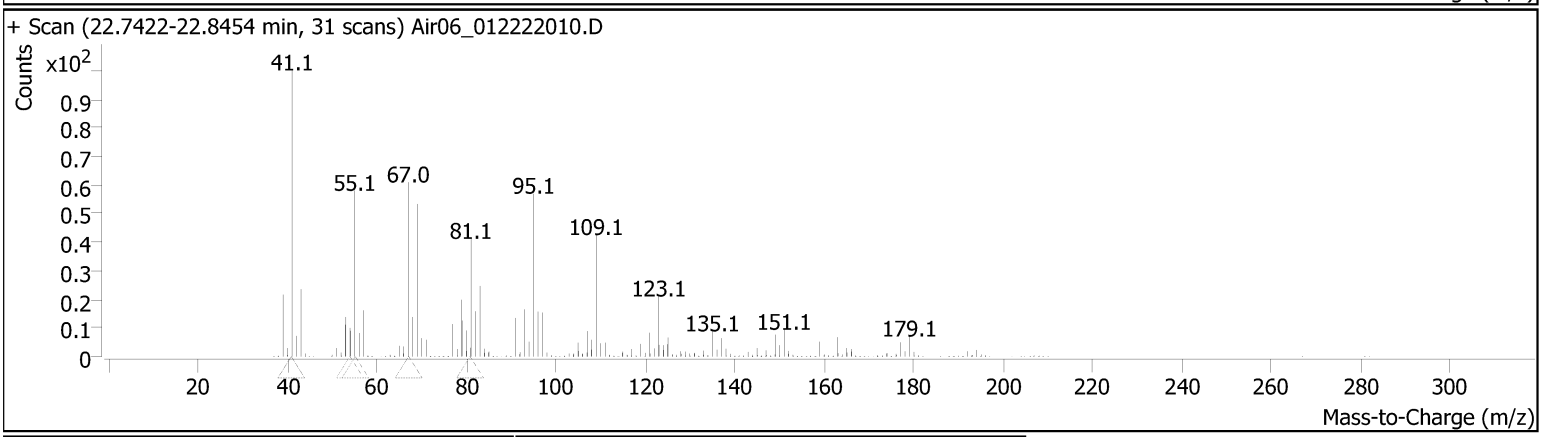



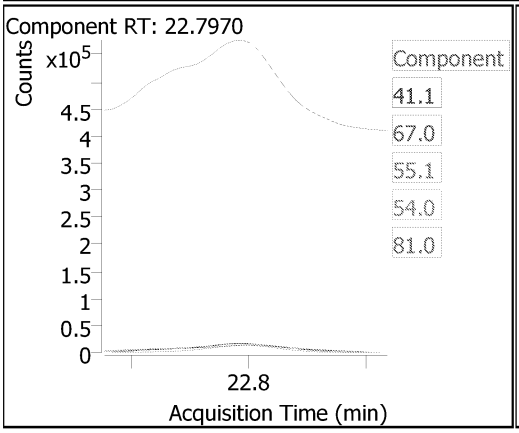



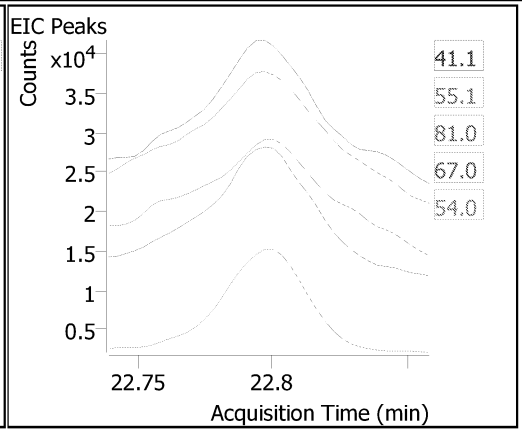
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.7970 | 1,11-Dodecadiene | 2803132.2 | 75.9 | 5876-87-9 | C12H22 | 6.065 |



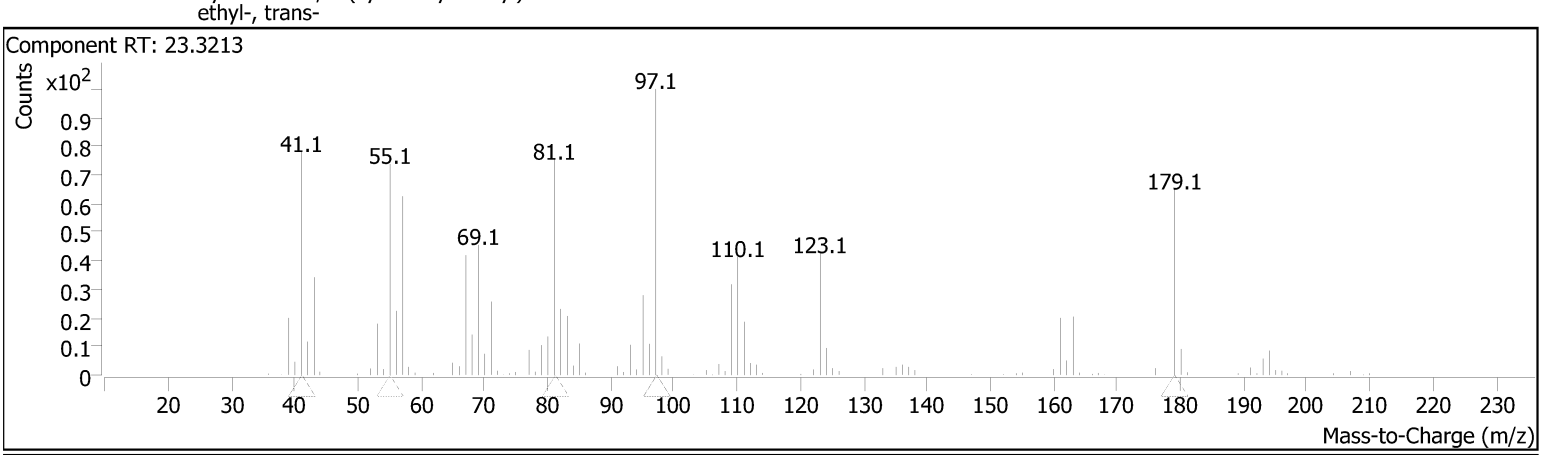



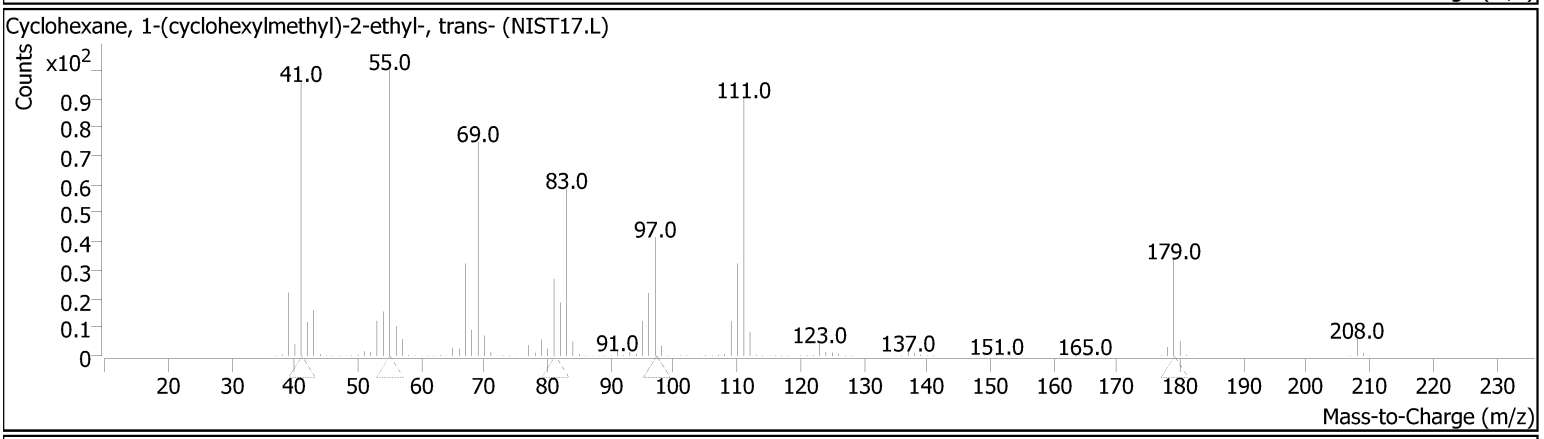



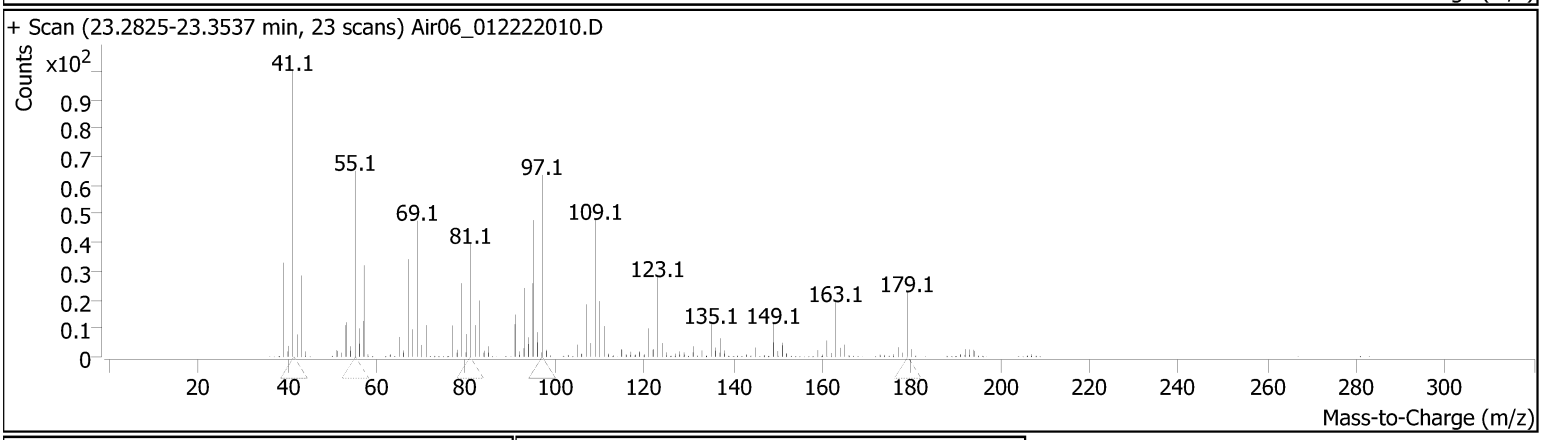



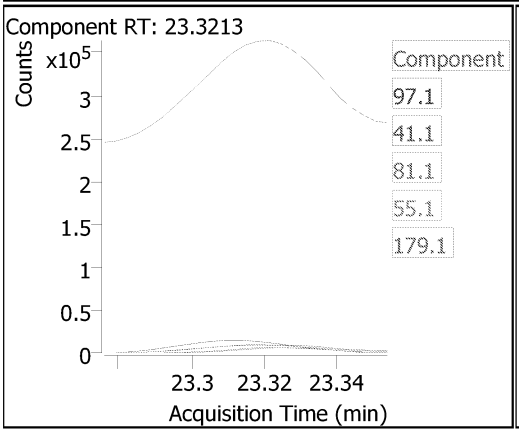


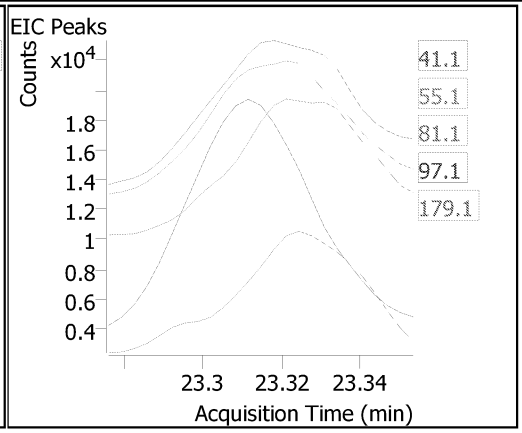

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3213 | Cyclohexane, 1-(cyclohexylmethyl)-2-ethyl-, trans- | 958060.8 | 74.8 | 54934-92-8 | C15H28 | 2.073 |

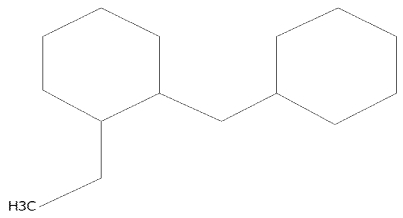


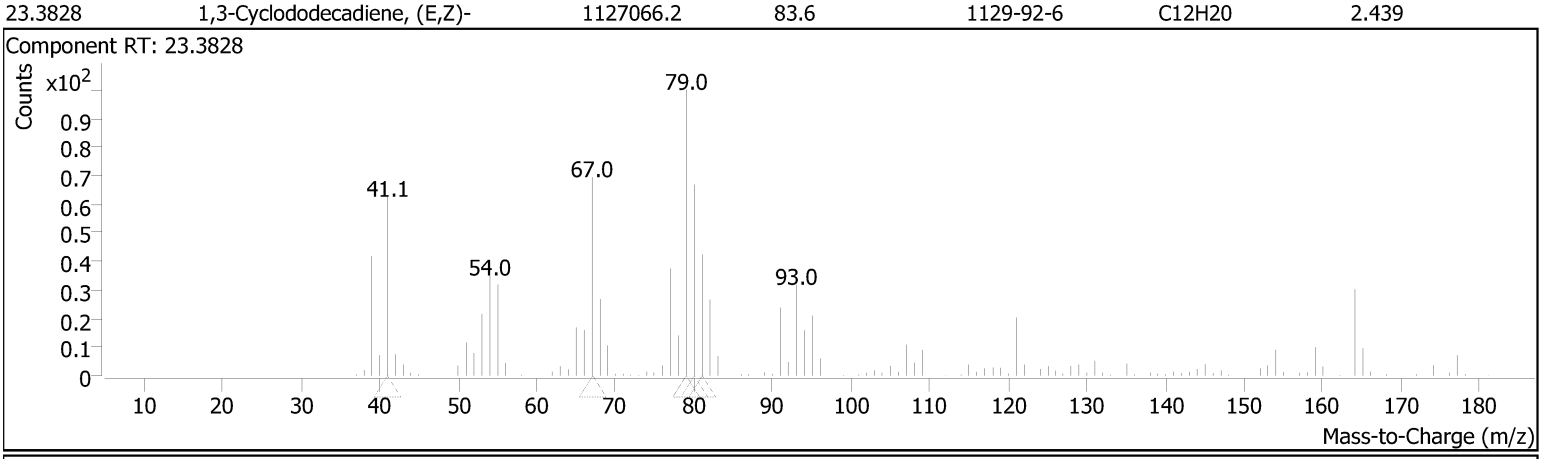



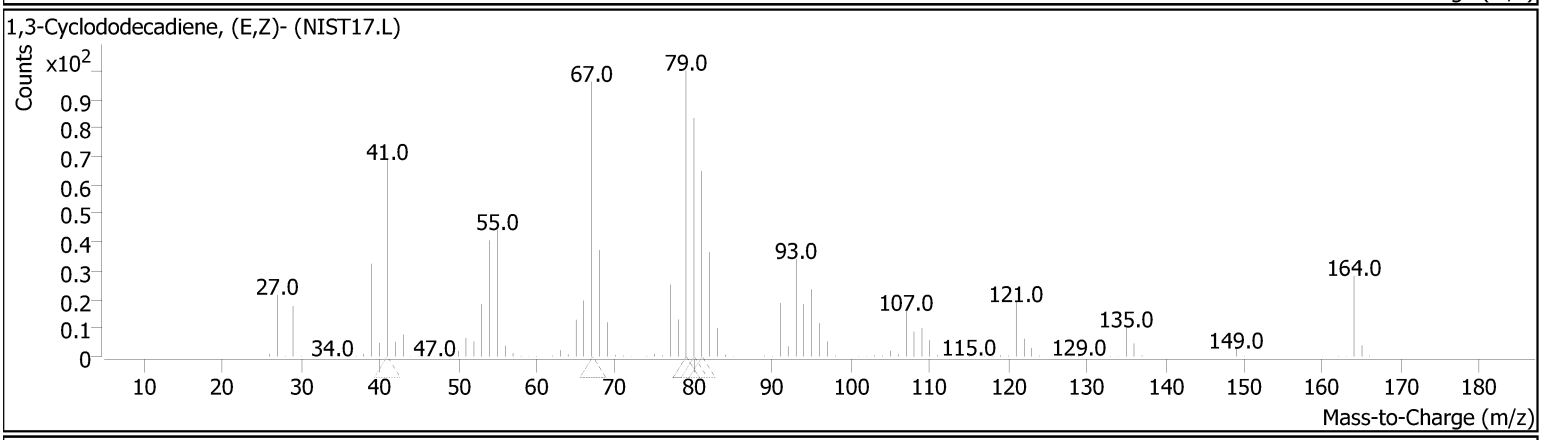



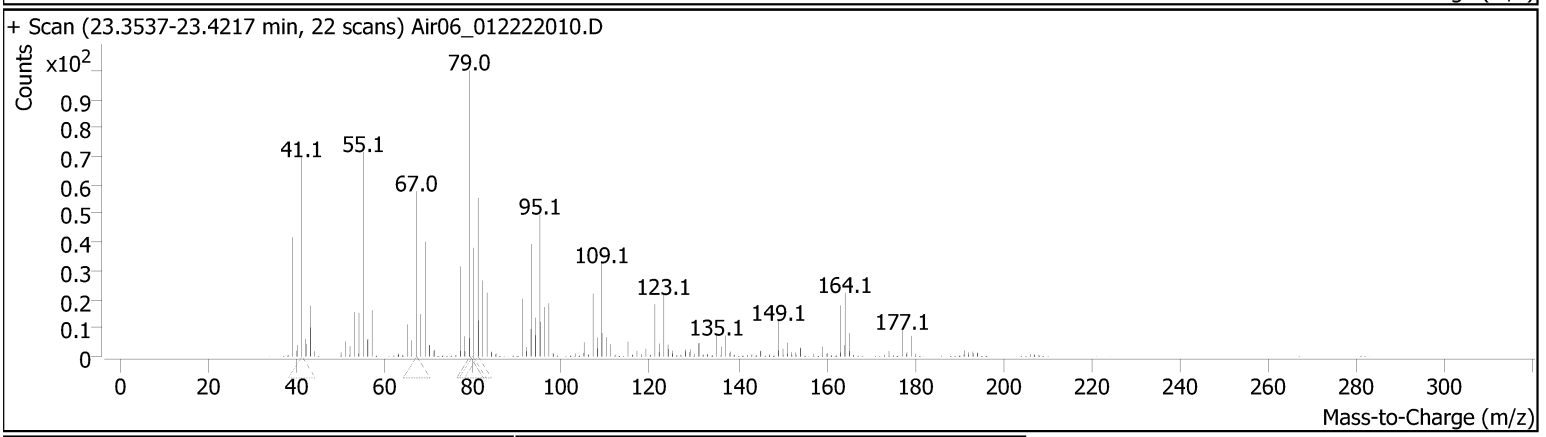



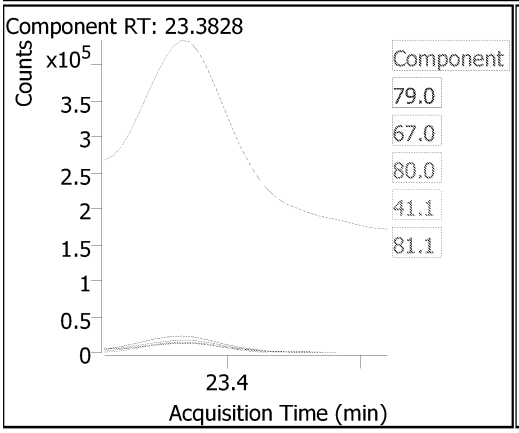



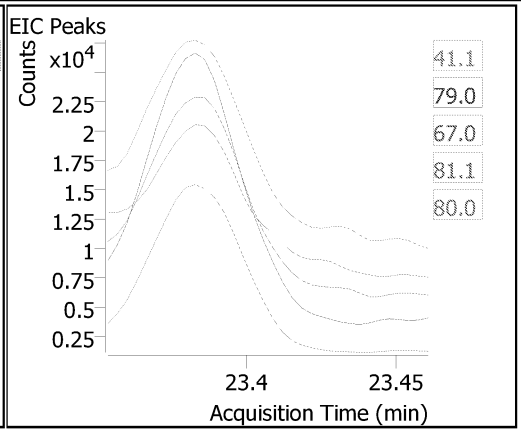
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3828 | 1,3-Cyclododecadiene, (E,Z)- | 1127066.2 | 83.6 | 1129-92-6 | C12H20 | 2.439 |

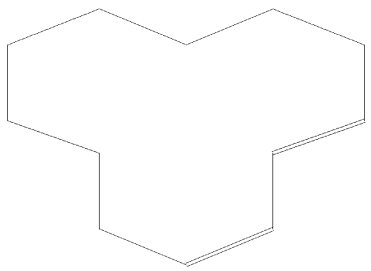


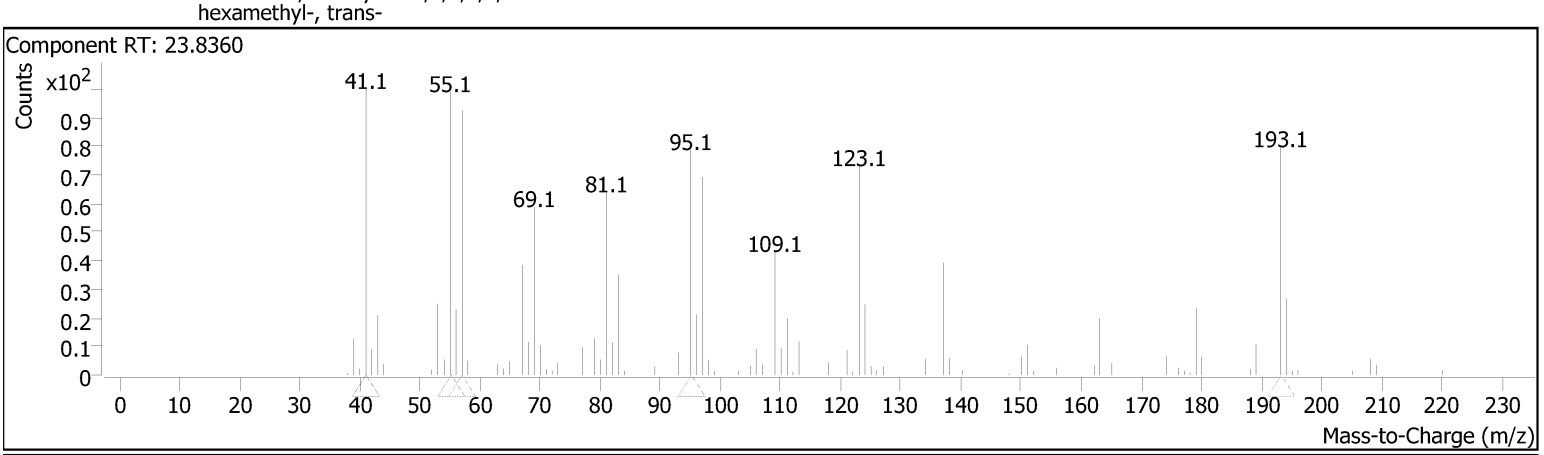



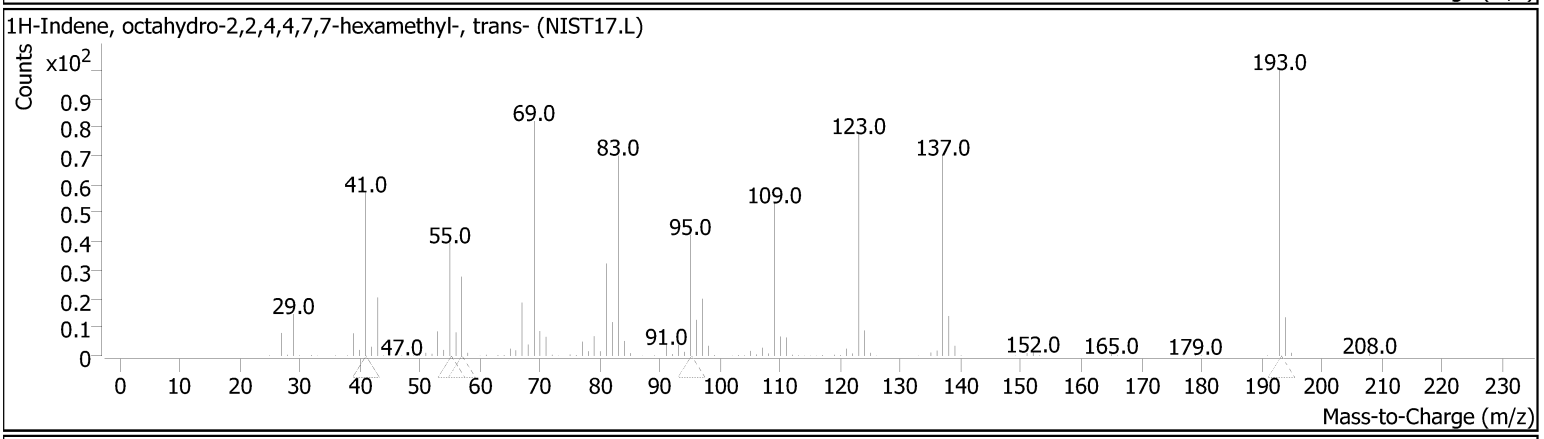



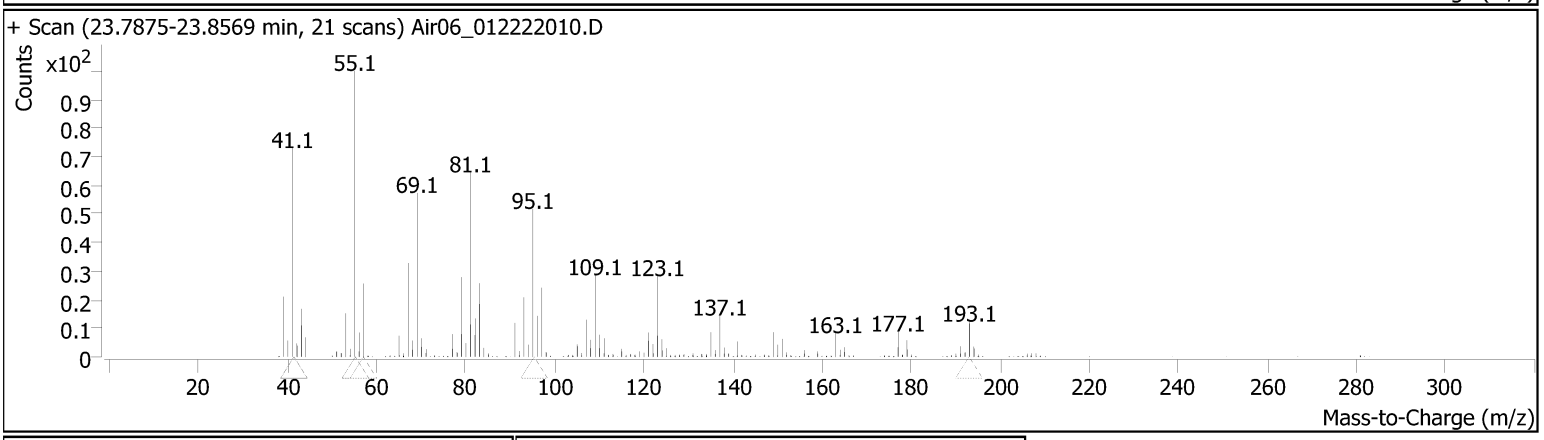
# Library Search Results - NonTarget Hits with Details

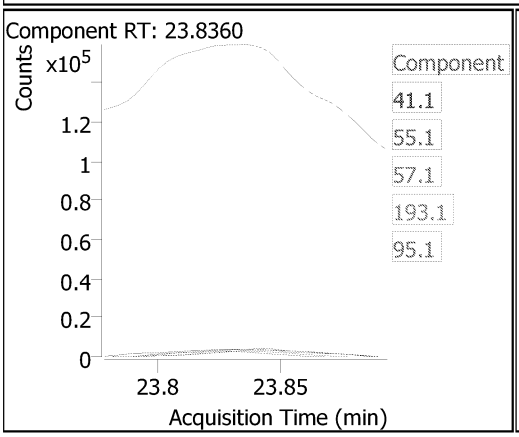
Agilent Technologies

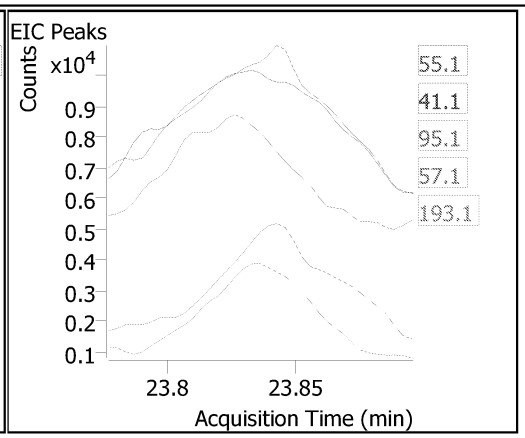
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.8360 | 1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- | 253567.6 | 81.5 | 54832-83-6 | C15H28 | 0.5486 |

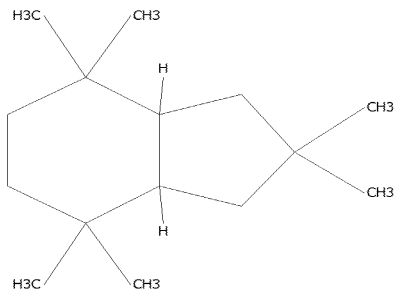


ENTHALPY SAMPLE USER REPORT FOR EPA TO-15

| | | | | | |
|---|---|---|---|---|---|
| Inst | : AIR-MS-06 | Lab ID | : 456991-006 C10630 | Client ID | : SVMP-18D |
| Seqnum | : 372030848013.1 | Matrix | : Air | Acct | : ELEMENT (JG) |
| File | : air06_012122013 | Batch | : 282262 | Time | : 21-JAN-2022 20:39 |
| Cal | : 372007975001 | Caldate | : 05-JAN-2022 | | |
| IDF | : 2.0 | Raw Units | : nL/L | Units | : nL/L |
| PDF | : 1.0 | | | | |

| Analyte | Raw | Result | RTS | RL | Blank | Flags |
|---|---|---|---|---|---|---|
| Freon 12 | 0.2304 | 0.46 | | 0.40 | | u |
| Freon 114 | 0.006825 | ND | | 0.40 | | u |
| Chloromethane | 0.1270 | ND | | 0.40 | | u |
| Vinyl Chloride | 0.03785 | ND | | 0.40 | | u |
| Bromomethane | 0.0008419 | ND | | 0.40 | | u |
| Chloroethane | 0.3552 | 0.71 | | 0.40 | | u |
| Trichlorofluoromethane | 0.09701 | ND | | 0.40 | | u |
| 1,1-Dichloroethene | 0.0005490 | ND | | 0.40 | | u |
| Freon 113 | 0.02789 | ND | | 0.40 | | u |
| Acetone | 2.134 | 4.3 | | 2.0 | 0.18 | u |
| Carbon Disulfide | 0.8647 | 1.7 | | 0.40 | | u |
| Isopropanol (IPA) | 0.8265 | ND | | 2.0 | | u |
| Methylene Chloride | 0.1379 | ND | | 0.40 | 0.26 | u |
| trans-1,2-Dichloroethene | 0.1639 | ND | | 0.40 | | u |
| MTBE | 0.003982 | ND | | 0.40 | | u |
| n-Hexane | 0.05478 | ND | | 0.40 | | u |
| 1,1-Dichloroethane | 0.01031 | ND | | 0.40 | | u |
| Vinyl Acetate | 0.1031 | ND | | 2.0 | | u |
| cis-1,2-Dichloroethene | 0.0006675 | ND | | 0.40 | | u |
| 2-Butanone | 0.2798 | ND | | 2.0 | | u |
| Chloroform | 0.04752 | ND | | 0.40 | | calc u |
| 1,1,1-Trichloroethane | 0 | ND | | 0.40 | | u |
| Carbon Tetrachloride | 0.02928 | ND | | 0.40 | | calc u |
| Benzene | 0.05558 | ND | | 0.40 | | u |
| 1,2-Dichloroethane | 0.09389 | ND | | 0.40 | | u |
| Trichloroethene | 0.02304 | ND | | 0.40 | | u |
| 1,2-Dichloropropane | 0.04546 | ND | | 0.40 | | calc u |
| Bromodichloromethane | 0.003780 | ND | | 0.40 | | u |
| cis-1,3-Dichloropropene | 0 | ND | | 0.40 | | u |
| 4-Methyl-2-Pentanone | 0.02189 | ND | | 0.40 | | u |
| Toluene | 0.4162 | 0.83 | | 0.40 | | u |
| trans-1,3-Dichloropropene | 0 | ND | | 0.40 | | u |
| 1,1,2-Trichloroethane | 0.0009818 | ND | | 0.40 | | u |
| Tetrachloroethene | 0.03504 | ND | | 0.40 | | u |
| 2-Hexanone | 0.02741 | ND | | 1.0 | | calc u |
| Dibromochloromethane | 0.0001993 | ND | | 0.40 | | u |
| 1,2-Dibromoethane | 0.001406 | ND | | 0.40 | | u |
| Chlorobenzene | 0.01615 | ND | | 0.40 | | u |
| Ethylbenzene | 0.2687 | 0.54 | | 0.40 | | u |
| m,p-Xylenes | 1.018 | 2.0 | | 0.80 | | u |
| o-Xylene | 0.4777 | 0.96 | | 0.40 | | u |
| Styrene | 0.8269 | 1.7 | | 0.40 | | u |
| Bromoform | 0.001812 | ND | | 0.40 | | u |
| 1,1,2,2-Tetrachloroethane | 0.005766 | ND | | 0.40 | | u |
| 1,1,1,2-Tetrachloroethane | 0.002730 | ND | | 0.40 | | u |
| 4-Ethyltoluene | 0.05079 | ND | | 0.40 | | u |
| 1,3,5-Trimethylbenzene | 0.1876 | ND | | 0.40 | | u |
| 1,2,4-Trimethylbenzene | 0.4161 | 0.83 | | 0.40 | | u |

| Analyte | Raw | Result | RTS | RL | Blank | Flags |
|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.6729 | 1.3 | 0.090 | 0.40 | | u x |
| 1,4-Dichlorobenzene | 0.6654 | 1.3 | | 0.40 | | u |
| Benzyl chloride | 0.01308 | ND | | 0.40 | | u |
| 1,2-Dichlorobenzene | 0.05430 | ND | | 0.40 | | u |
| 1,2,4-Trichlorobenzene | 0.01297 | ND | | 0.40 | | u |
| Hexachlorobutadiene | 0.001892 | ND | | 0.40 | | u |

| Tentatively Identified Compound | CAS # | Raw | Units | Result | Units |
|---|---|---|---|---|---|
| 13-Oxabicyclo[10.1.0]tridecane | 286-99-7 | 1.6 | nL/L | 3.2 | nL/L |
| 7-Methoxymethyl-2,7-dimethylcyclohepta-1,3,5-triene | 73992-48-0 | 2.2 | nL/L | 4.4 | nL/L |
| Azulene | 275-51-4 | 1.3 | nL/L | 2.7 | nL/L |
| Benzene, 1,3-dimethyl- | 108-38-3 | 1.2 | nL/L | 2.4 | nL/L |
| Dodecane | 112-40-3 | 5.9 | nL/L | 12 | nL/L |
| Naphthalene, decahydro-2-methyl | 2958-76-1 | 1.3 | nL/L | 2.6 | nL/L |
| Tridecane | 629-50-5 | 3.8 | nL/L | 7.7 | nL/L |
| Tridecane, 7-methyl- | 26730-14-3 | 2.2 | nL/L | 4.5 | nL/L |
| Undecane | 1120-21-4 | 4.0 | nL/L | 8.1 | nL/L |
| Undecane, 2,6-dimethyl- | 17301-23-4 | 1.9 | nL/L | 3.8 | nL/L |

| Surrogate | Raw | Spiked | Result | %Rec | Limits | Flags |
|---|---|---|---|---|---|---|
| Bromofluorobenzene | 10.40 | 20.00 | 20.81 | 104 | 60-140 | u |

| ISTD (ICAL air06_010522009) | ICAL Area | SAMPLE Area | %Drift | ICAL RT | SAMPLE RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 399076 | -2.95 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1629301 | 5.01 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 803513 | -5.17 | 14.01 | 14.01 | 0.00 |

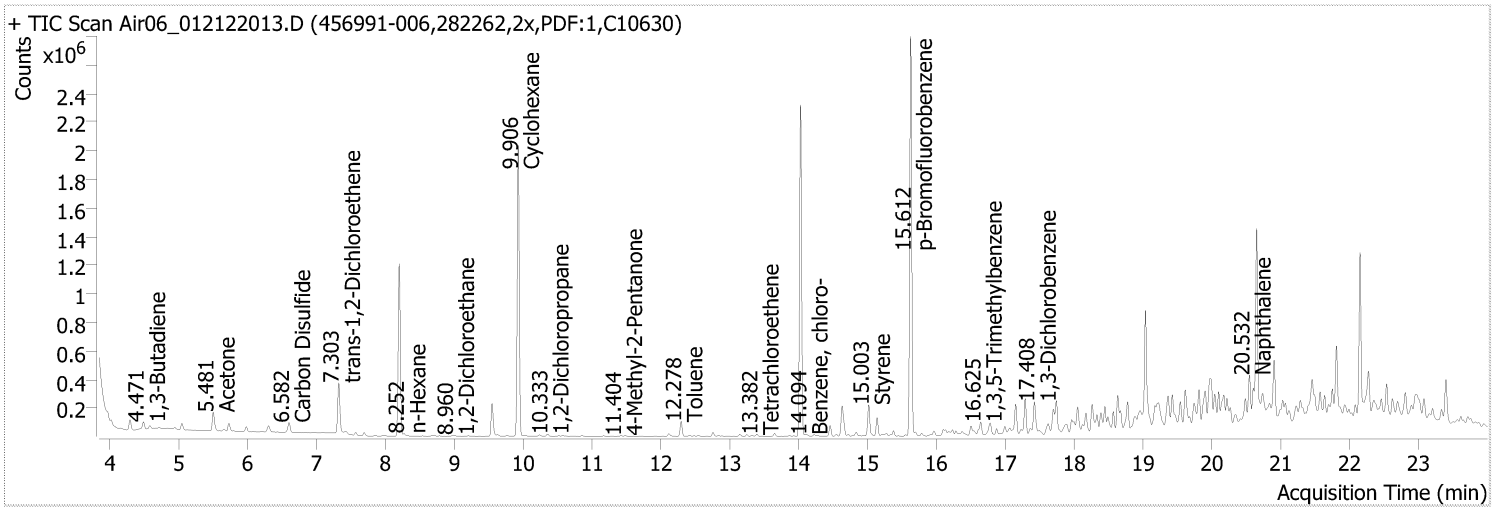
**(not in upper half)**

Analyst: DJL Date: 01/27/22 Reviewer: LW Date: 01/27/22

calc=check quantitation u=use x=false positive

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012122013.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/21/2022 8:39:26 PM |
| Sample Name | 456991-006,282262,2x,PDF:1,C10630 | Instrument | Air-MS-06 |
| Vial | 12 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 2x400mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 21 1305 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



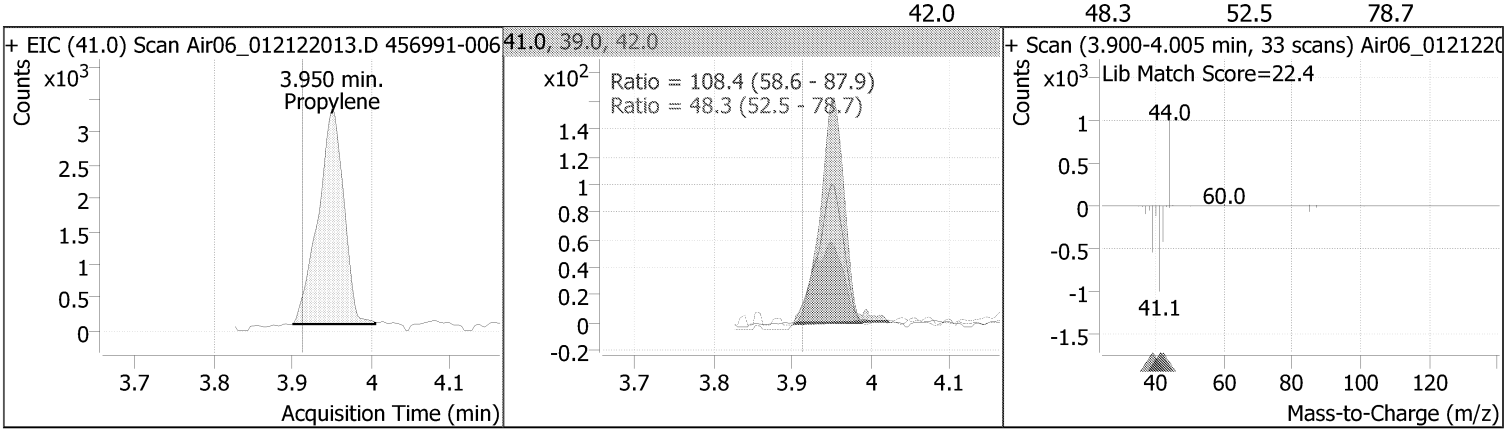

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.184 | 130.0 | 399076 | 10.0000 | nL/L | | 0.007 |
| M 1,4-Difluorobenzene | 9.912 | 114.0 | 1629301 | 10.0000 | nL/L | | 0.003 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 803513 | 10.0000 | nL/L | # | 0.000 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1099381 | 10.4047 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 104.05% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.950 | 41.0 | 7433 | 0.1891 | nL/L | # | 68 |
| T Freon 12 | 3.999 | 85.0 | 23963 | 0.2304 | nL/L | # | 97 |
| T Chloromethane | 4.154 | 50.0 | 6207 | 0.1270 | nL/L | | 95 |
| T Freon 114 | 4.254 | 135.0 | 501 | 0.0068 | nL/L | # | 91 |
| T Vinyl Chloride | 4.371 | 62.0 | 1850 | 0.0378 | nL/L | | 98 |
| T 1,3-Butadiene | 4.471 | 54.0 | 1266 | 0.0303 | nL/L | # | 1 |
| T Butane | 4.559 | 43.0 | 21876 | 0.2692 | nL/L | | 99 |
| T Bromomethane | 4.843 | 96.0 | 30 | 0.0008 | nL/L | # | 34 |
| T Chloroethane | 4.921 | 64.0 | 8559 | 0.3552 | nL/L | | 96 |
| T Ethanol | 5.025 | 45.0 | 55311 | 2.2983 | nL/L | | 95 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 5.348 | 56.0 | 799 | 0.0376 | nL/L | | 90 |
| T Acetone | 5.481 | 58.0 | 53517 | 2.1337 | nL/L | # | 98 |
| T Trichloromonofluoromethane | 5.636 | 101.0 | 11891 | 0.0970 | nL/L | | 98 |
| T Isopropanol (IPA) | 5.708 | 45.0 | 74236 | 0.8265 | nL/L | | 96 |
| T n-Pentane | 5.960 | 43.0 | 26838 | 0.2673 | nL/L | | 99 |
| T 1,1-Dichloroethene | 6.264 | 61.0 | 50 | 0.0005 | nL/L | | 36 |
| T Tert-butyl alcohol (TBA) | 6.277 | 59.0 | 39555 | 0.3805 | nL/L | # | 91 |
| T Methylene Chloride | 6.293 | 84.0 | 6090 | 0.1379 | nL/L | | 97 |
| T 3-Chloropropene | 6.582 | 76.0 | 110176 | 5.4126 | nL/L | # | 59 |
| T Freon 113 | 6.549 | 101.0 | 2747 | 0.0279 | nL/L | | 98 |
| T Carbon Disulfide | 6.582 | 76.0 | 110359 | 0.8647 | nL/L | | 94 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.303 | 61.0 | 12528 | 0.1639 | nL/L | # | 33 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 968 | 0.0103 | nL/L | # | 80 |
| T MTBE | 7.410 | 73.0 | 495 | 0.0040 | nL/L | # | 1 |
| T Vinyl Acetate | 7.413 | 43.0 | 16239 | 0.1031 | nL/L | | 92 |
| T 2-Butanone | 7.672 | 43.0 | 33943 | 0.2798 | nL/L | | 95 |
| T cis-1,2-Dichloroethene | 8.041 | 61.0 | 52 | 0.0007 | nL/L | | 33 |
| T Ethyl Acetate | 8.255 | 61.0 | 883 | 0.0464 | nL/L | # | 82 |
| T n-Hexane | 8.252 | 57.0 | 4792 | 0.0548 | nL/L | # | 64 |
| T Chloroform | 8.300 | 83.0 | 4687 | 0.0475 | nL/L | | 82 |
| T Tetrahydrofuran | 8.698 | 72.0 | 1553 | 0.0714 | nL/L | # | 7 |
| T 1,2-Dichloroethane | 8.960 | 62.0 | 6781 | 0.0939 | nL/L | | 97 |
| T 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Benzene | 9.611 | 78.0 | 7903 | 0.0556 | nL/L | | 95 |
| T Carbon Tetrachloride | 9.750 | 117.0 | 2980 | 0.0293 | nL/L | # | 96 |
| T Cyclohexane | 9.906 | 84.0 | 2440 | 0.0411 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 10.333 | 63.0 | 3034 | 0.0455 | nL/L | # | 32 |
| T Methane, bromodichloro- | 10.508 | 83.0 | 412 | 0.0038 | nL/L | # | 58 |
| T 1,4-Dioxane | 10.592 | 88.0 | 302 | 0.0087 | nL/L | # | 66 |
| T Trichloroethene | 10.559 | 132.0 | 1564 | 0.0230 | nL/L | | 96 |
| T 2,2,4-Trimethylpentane | 10.621 | 57.0 | 841 | 0.0028 | nL/L | # | 1 |
| T Methyl methacrylate | 10.724 | 69.0 | 169 | 0.0030 | nL/L | # | 1 |
| T n-Heptane | 10.838 | 71.0 | 1071 | 0.0204 | nL/L | # | 90 |
| T cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 4-Methyl-2-Pentanone | 11.404 | 58.0 | 1281 | 0.0219 | nL/L | # | 79 |
| T trans-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 1,1,2-Trichloroethane | 11.984 | 97.0 | 62 | 0.0010 | nL/L | # | 38 |
| T Toluene | 12.278 | 91.0 | 80379 | 0.4162 | nL/L | | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 51885486 | 4.0087 | nL/L | | 100 |
| T 2-Hexanone | 12.531 | 58.0 | 2061 | 0.0274 | nL/L | | 83 |
| T Dibromochloromethane | 12.660 | 129.0 | 23 | 0.0002 | nL/L | # | 1 |
| T 1,2-Dibromoethane | 12.912 | 108.9 | 137 | 0.0014 | nL/L | | 92 |
| T Tetrachloroethene | 13.382 | 166.0 | 3498 | 0.0350 | nL/L | | 92 |
| T 1,1,1,2-Tetrachloroethane | 13.858 | 131.0 | 189 | 0.0027 | nL/L | # | 1 |
| T Benzene, chloro- | 14.094 | 112.0 | 2222 | 0.0162 | nL/L | # | 1 |
| T Ethylbenzene | 14.443 | 91.0 | 58748 | 0.2687 | nL/L | | 99 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 41954357 | 4.4378 | nL/L | | 100 |
| T m,p-Xylenes | 14.615 | 91.0 | 179019 | 1.0182 | nL/L | | 99 |
| T Bromoform | 14.689 | 173.0 | 218 | 0.0018 | nL/L | # | 1 |
| T Styrene | 15.003 | 104.0 | 115212 | 0.8269 | nL/L | | 99 |
| T 1,1,2,2-Tetrachloroethane | 15.042 | 83.0 | 766 | 0.0058 | nL/L | | 80 |
| T o-Xylene | 15.123 | 91.0 | 86348 | 0.4777 | nL/L | | 99 |
| T n-Nonane | 15.363 | 85.0 | 4348 | 0.1041 | nL/L | | 91 |
| T Isopropylbenzene | 15.770 | 105.0 | 7125 | 0.0288 | nL/L | | 97 |
| T 2-Chlorotoluene | 16.392 | 126.0 | 200 | 0.0032 | nL/L | # | 1 |
| T n-Propylbenzene | 16.360 | 120.0 | 5099 | 0.0736 | nL/L | | 82 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 12453 | 0.0508 | nL/L | | 98 |
| T 1,3,5-Trimethylbenzene | 16.625 | 105.0 | 39821 | 0.1876 | nL/L | | 99 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 87728 | 0.4161 | nL/L | | 100 |
| T Benzyl chloride | 17.428 | 91.0 | 2425 | 0.0131 | nL/L | # | 67 |
| T 1,3-Dichlorobenzene | 17.408 | 146.0 | 97306 | 0.6729 | nL/L | | 96 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 97306 | 0.6654 | nL/L | # | 95 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 7658 | 0.0543 | nL/L | # | 91 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1507 | 0.0130 | nL/L | # | 51 |
| T Naphthalene | 20.532 | 128.0 | 140518 | 0.5841 | nL/L | | 98 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.117 | 225.0 | 236 | 0.0019 | nL/L | # | 68 |

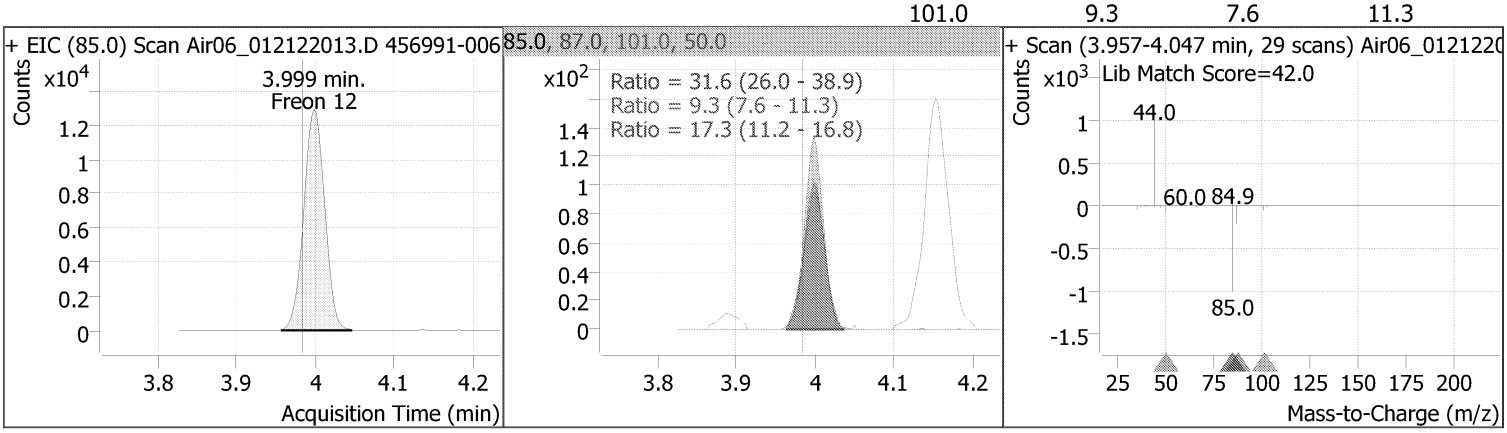
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

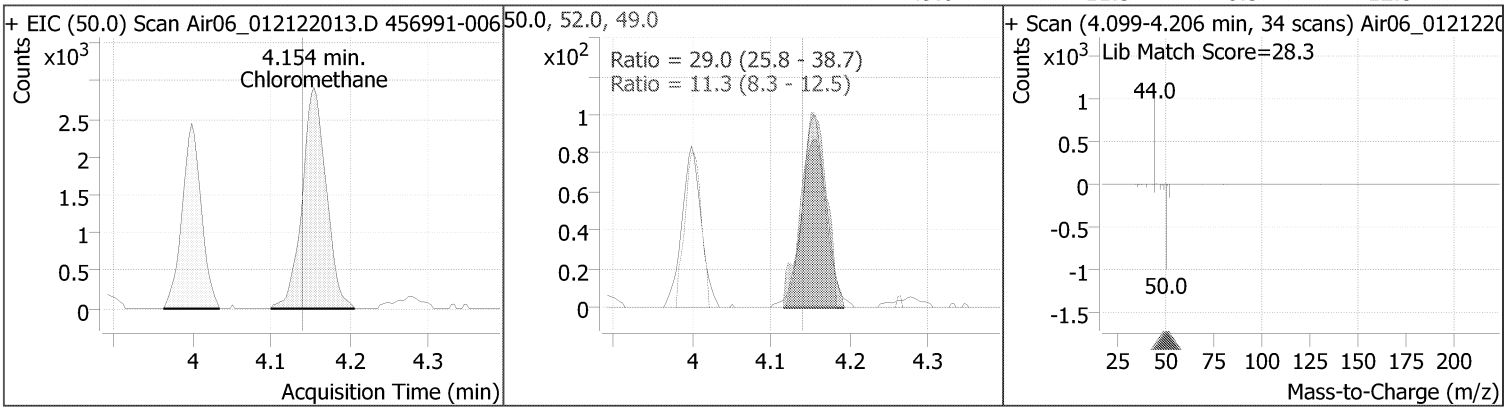
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.1891 | 3.95 | 0.04 | 7433 | 39.0 | 108.4 | 58.6 | 87.9 |
| | | | | | 42.0 | 48.3 | 52.5 | 78.7 |



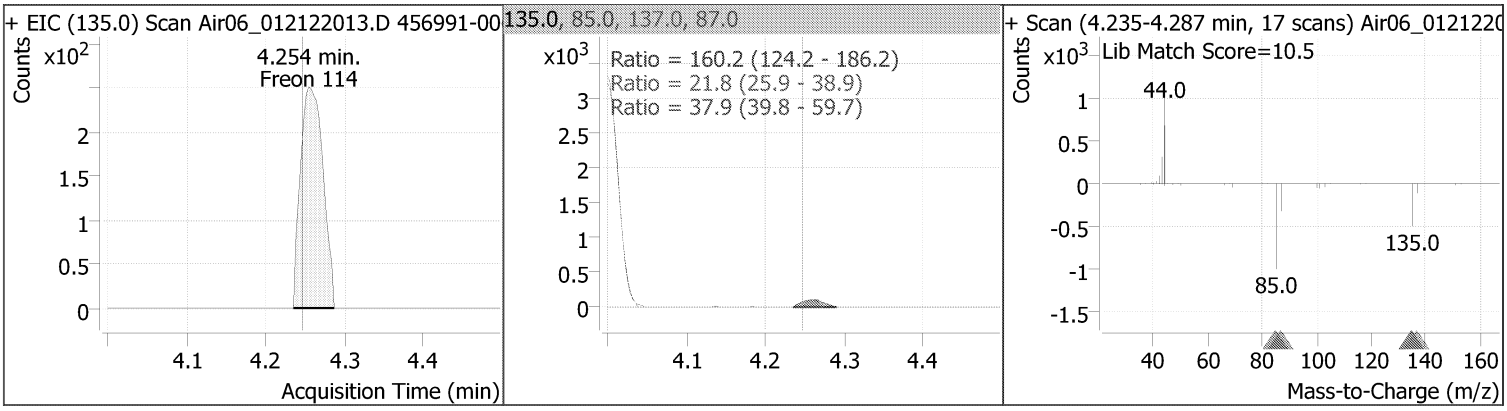

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.2304 | 4.00 | 0.02 | 23963 | 87.0 | 31.6 | 26.0 | 38.9 |
| | | | | | 50.0 | 17.3 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.3 | 7.6 | 11.3 |



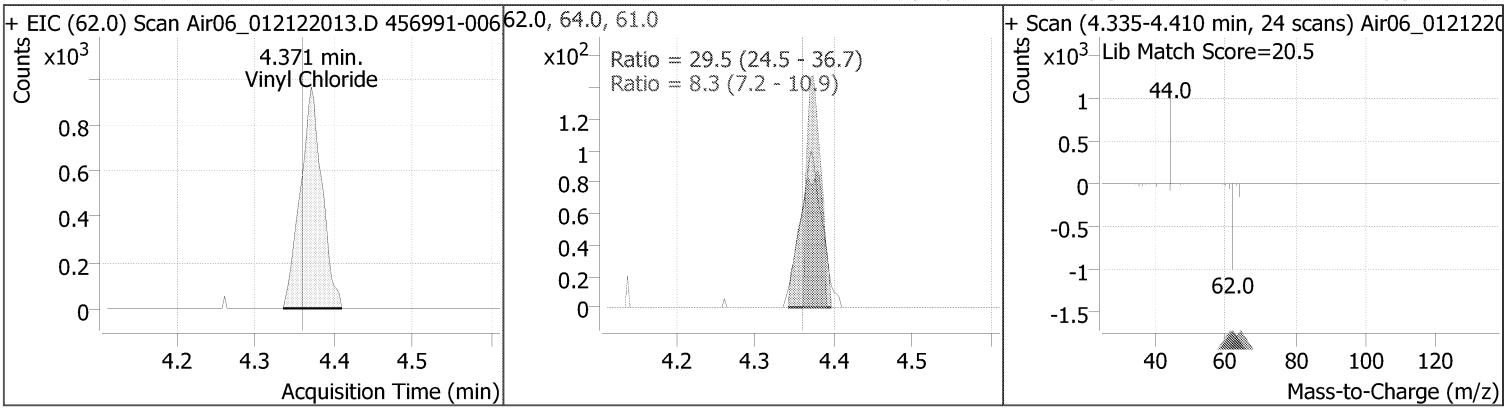

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.1270 | 4.15 | 0.02 | 6207 | 52.0 | 29.0 | 25.8 | 38.7 |
| | | | | | 49.0 | 11.3 | 8.3 | 12.5 |



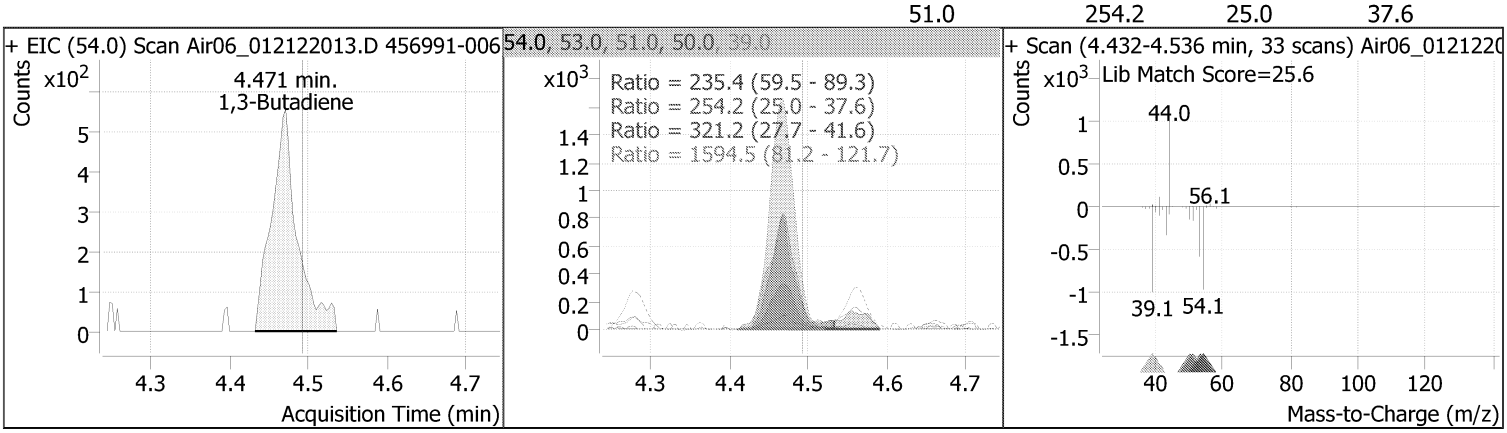
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.0068 | 4.25 | 0.01 | 501 | 85.0 | 160.2 | 124.2 | 186.2 |
| | | | | | 87.0 | 37.9 | 39.8 | 59.7 |
| | | | | | 137.0 | 21.8 | 25.9 | 38.9 |



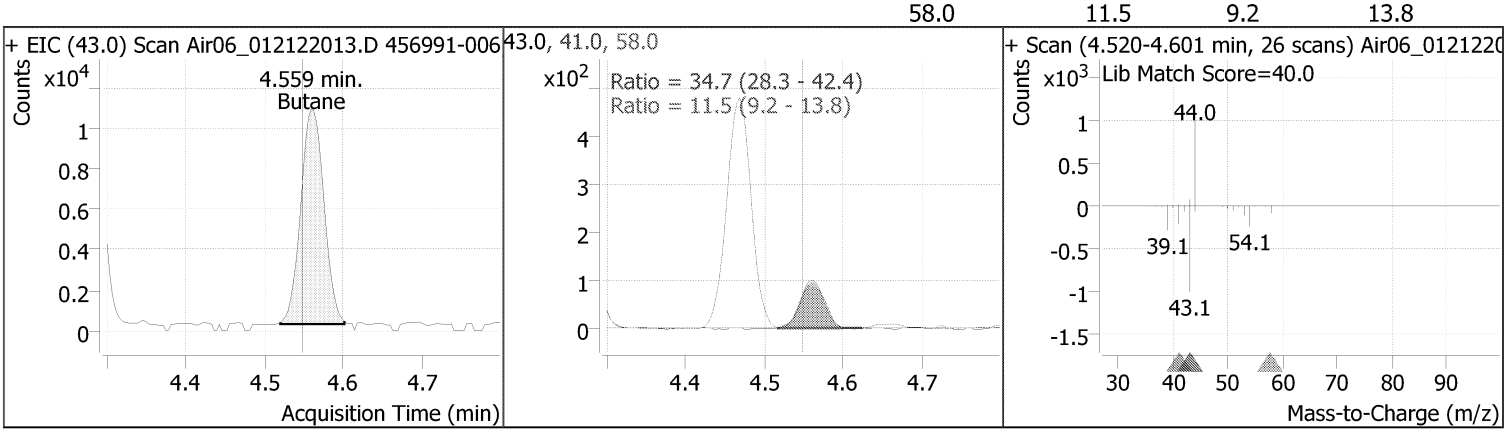

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.0378 | 4.37 | 0.02 | 1850 | 64.0 | 29.5 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.3 | 7.2 | 10.9 |



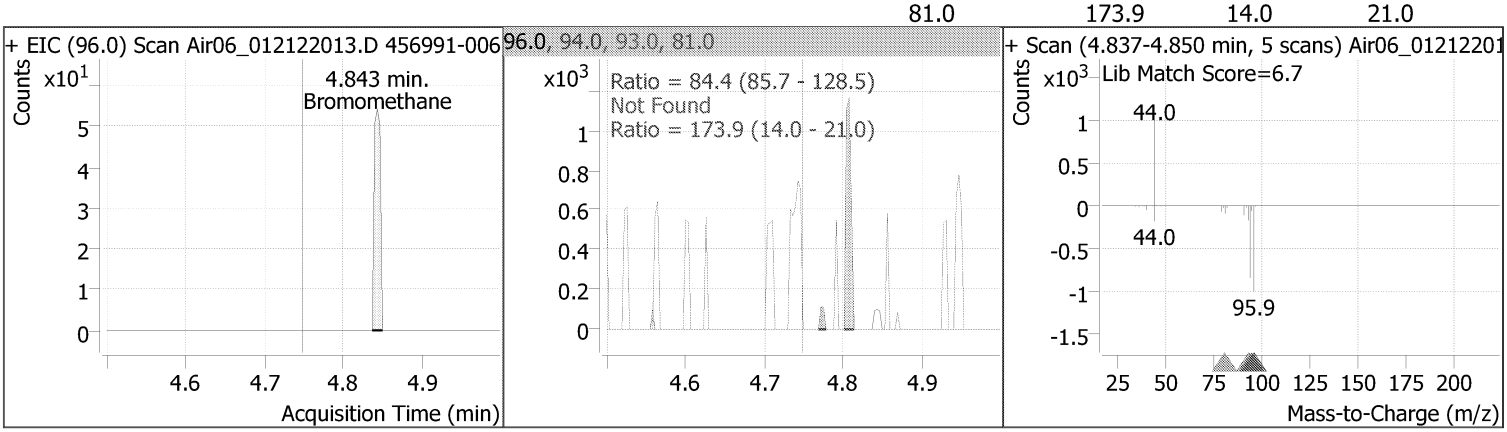

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0303 | 4.47 | -0.02 | 1266 | 39.0 | 1594.5 | 81.2 | 121.7 |
| | | | | | 53.0 | 235.4 | 59.5 | 89.3 |
| | | | | | 50.0 | 321.2 | 27.7 | 41.6 |
| | | | | | 51.0 | 254.2 | 25.0 | 37.6 |



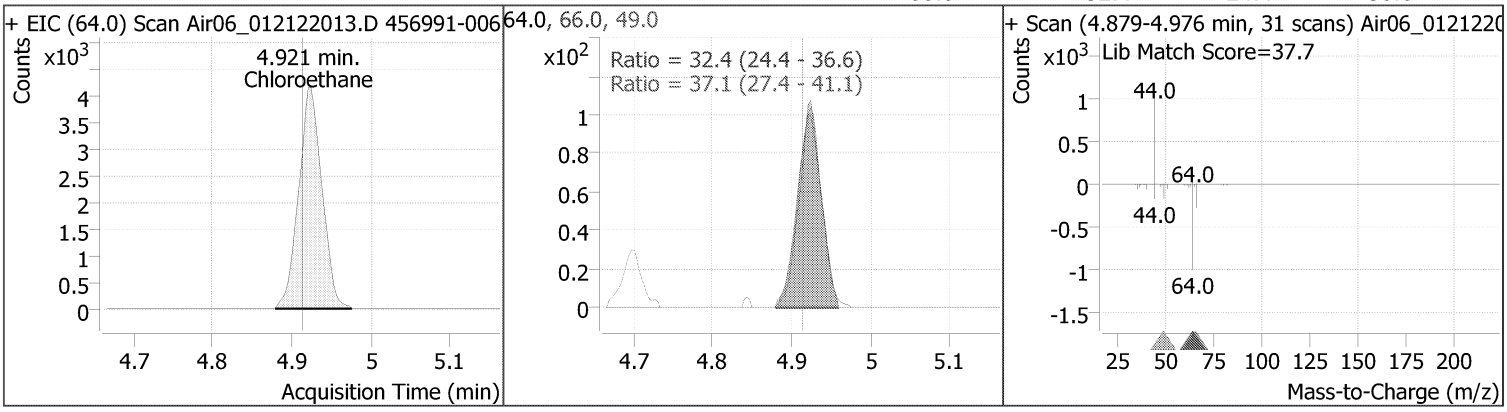
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.2692 | 4.56 | 0.02 | 21876 | 41.0 | 34.7 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.5 | 9.2 | 13.8 |



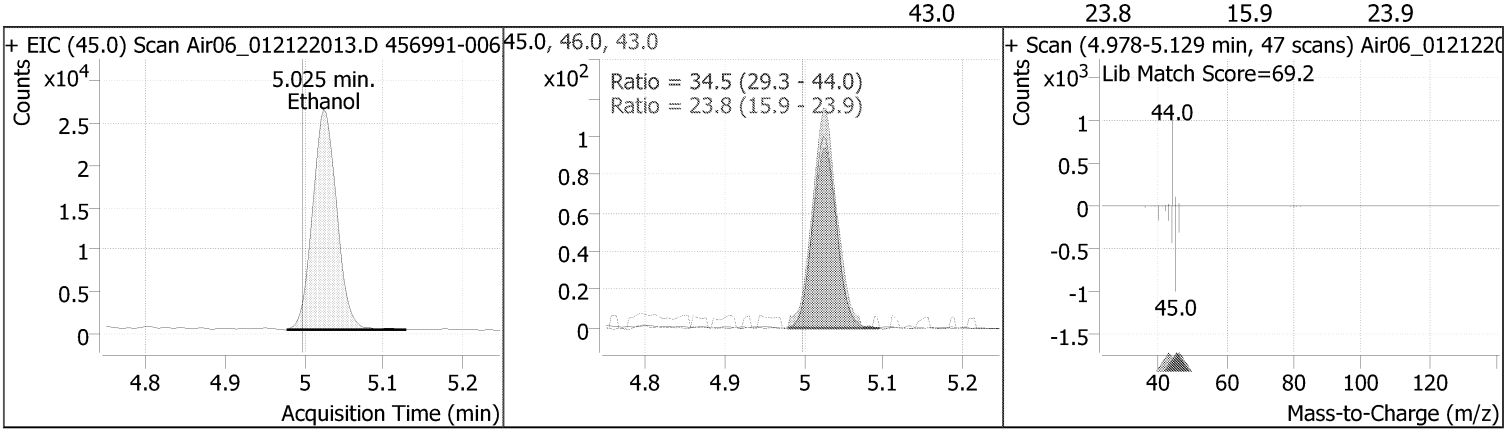

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 0.0008 | 4.84 | 0.10 | 30 | 94.0 | 84.4 | 85.7 | 128.5 |
| | | | | | 93.0 | | 18.1 | 27.1 |
| | | | | | 81.0 | 173.9 | 14.0 | 21.0 |



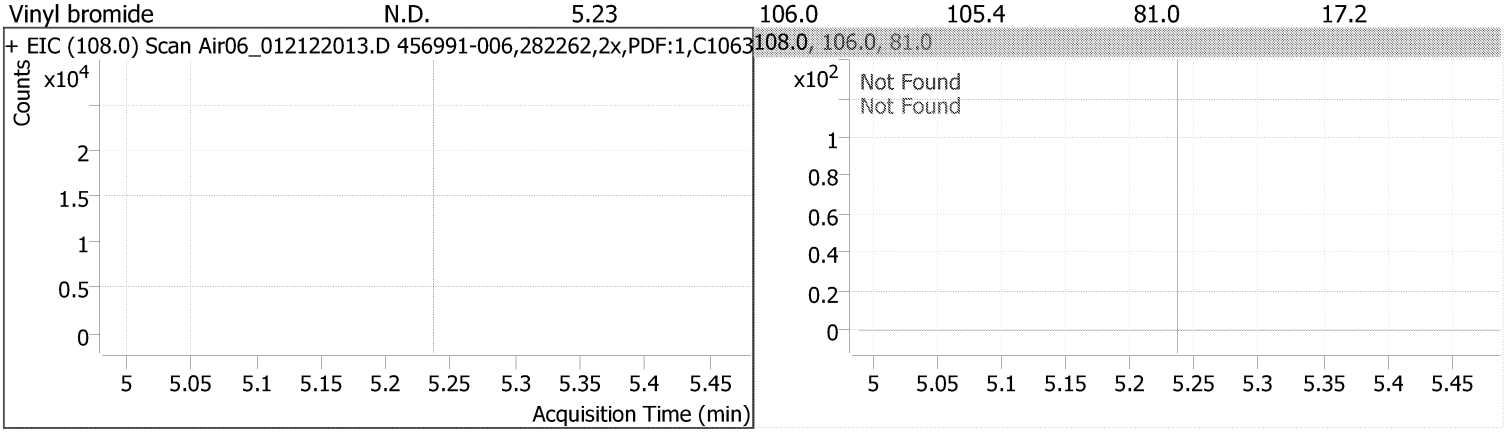

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.3552 | 4.92 | 0.01 | 8559 | 49.0 | 37.1 | 27.4 | 41.1 |
| | | | | | 66.0 | 32.4 | 24.4 | 36.6 |



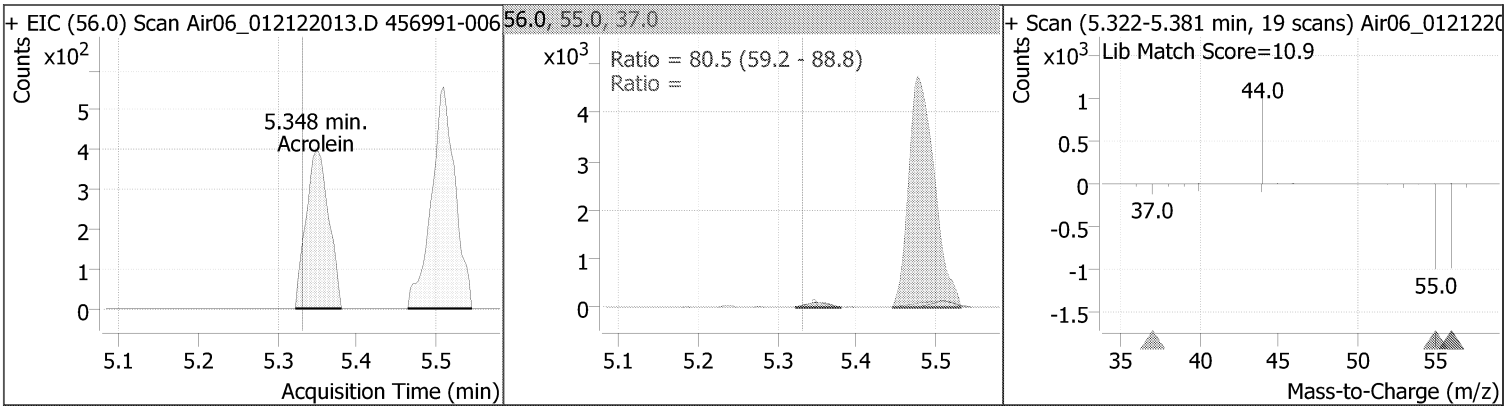
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 2.2983 | 5.02 | 0.03 | 55311 | 46.0 | 34.5 | 29.3 | 44.0 |
| | | | | | 43.0 | 23.8 | 15.9 | 23.9 |



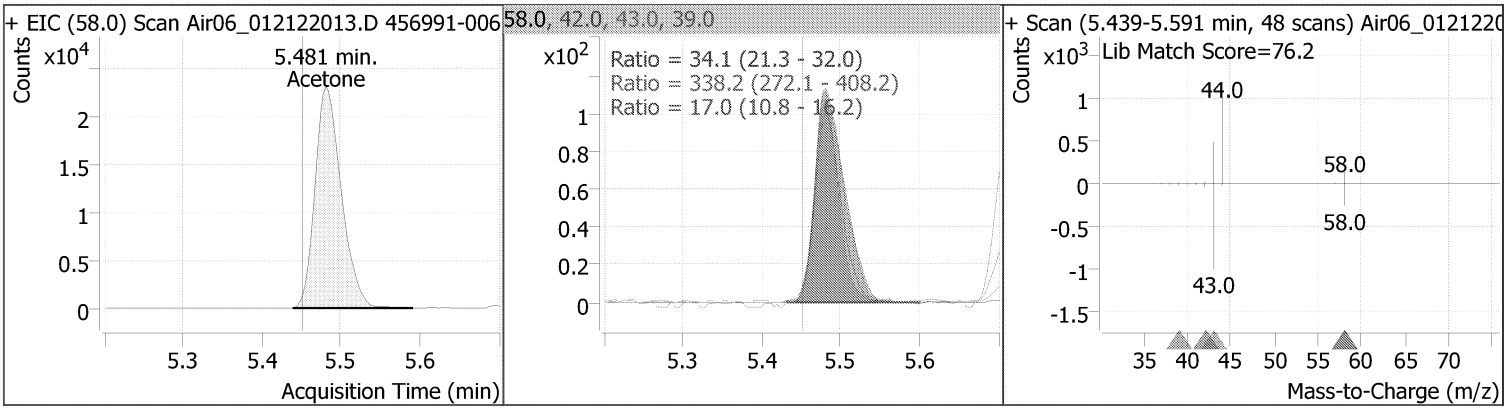

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.23 | 106.0 | 105.4 | 81.0 | 17.2 |



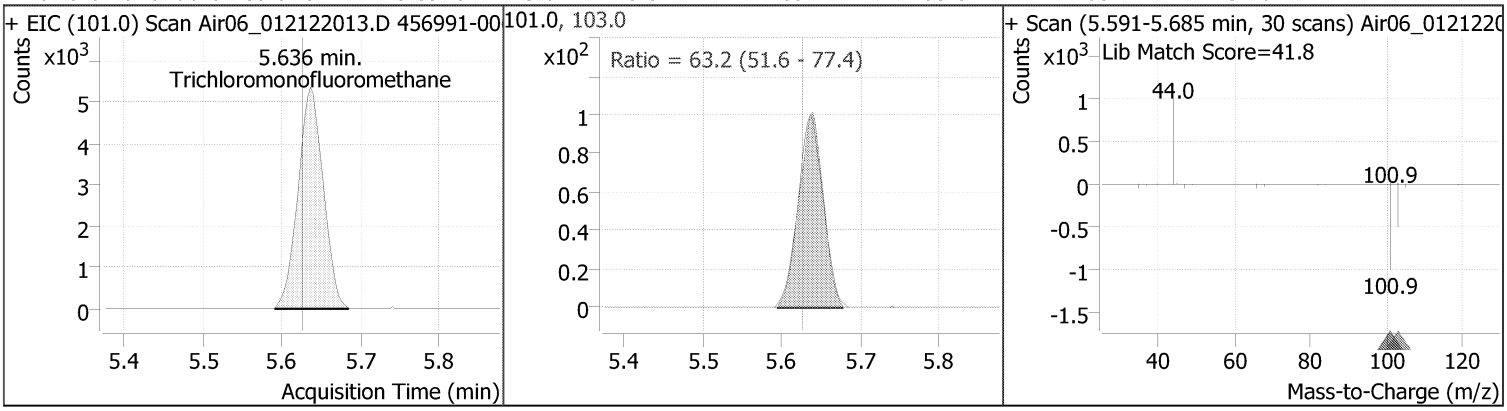

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0376 | 5.35 | 0.02 | 799 | 55.0 | 80.5 | 59.2 | 88.8 |
| | | | | | 37.0 | | 7.3 | 11.0 |



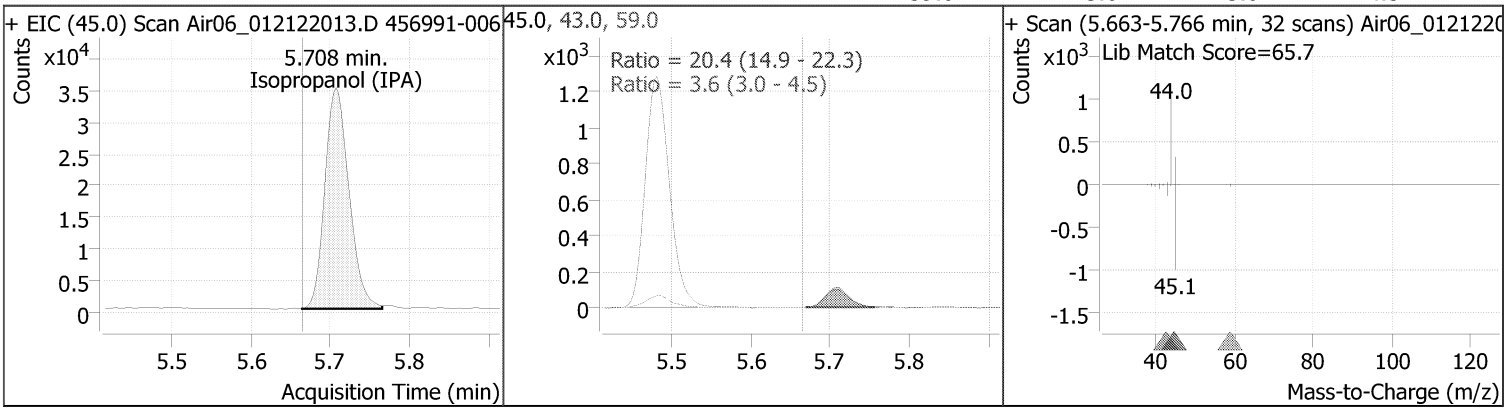
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 2.1337 | 5.48 | 0.04 | 53517 | 43.0 | 338.2 | 272.1 | 408.2 |
| | | | | | 42.0 | 34.1 | 21.3 | 32.0 |
| | | | | | 39.0 | 17.0 | 10.8 | 16.2 |



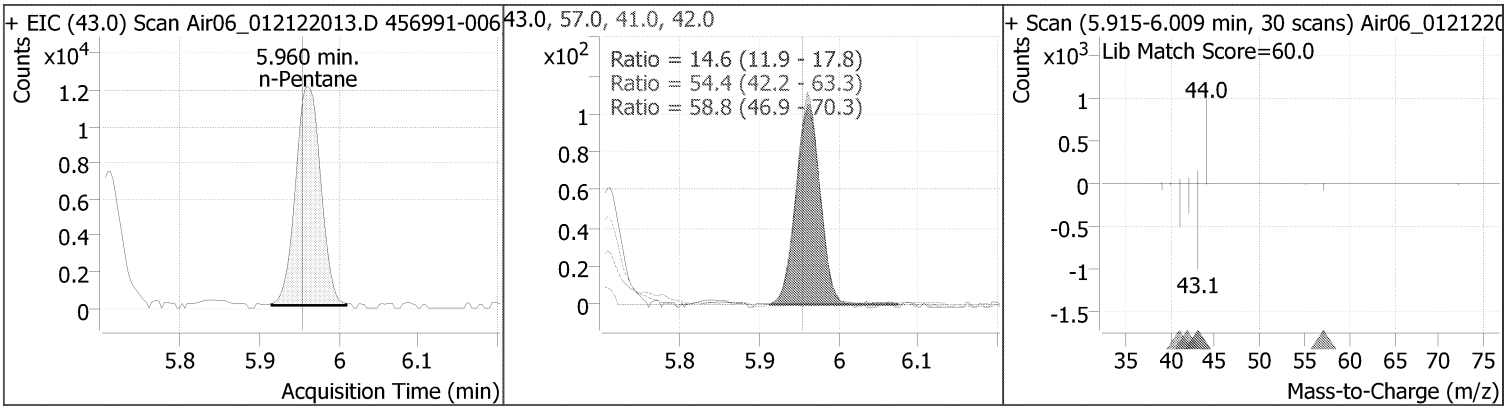

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 0.0970 | 5.64 | 0.02 | 11891 | 103.0 | 63.2 | 51.6 | 77.4 |



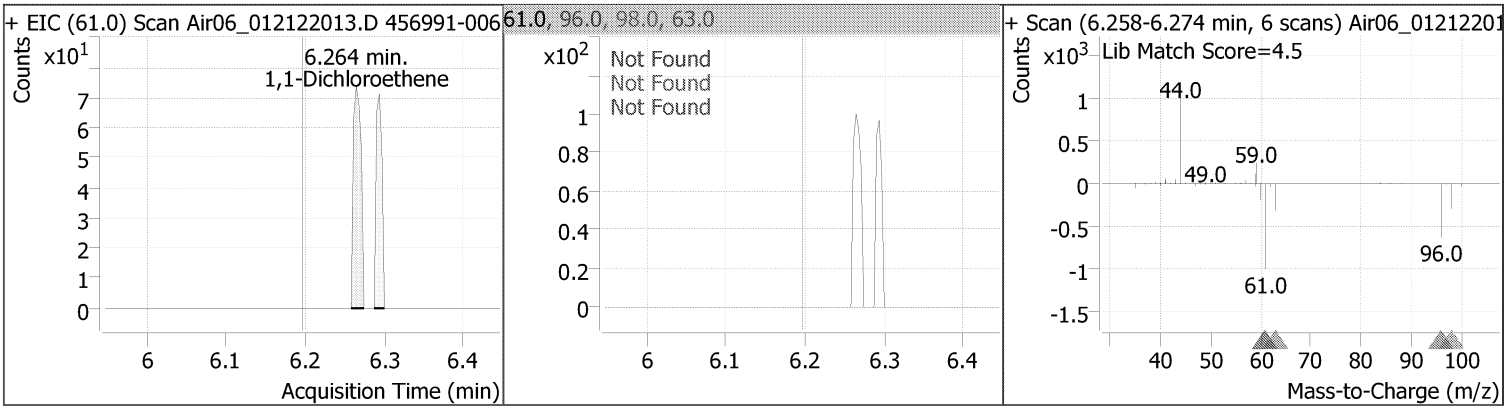

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.8265 | 5.71 | 0.05 | 74236 | 43.0 | 20.4 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.6 | 3.0 | 4.5 |



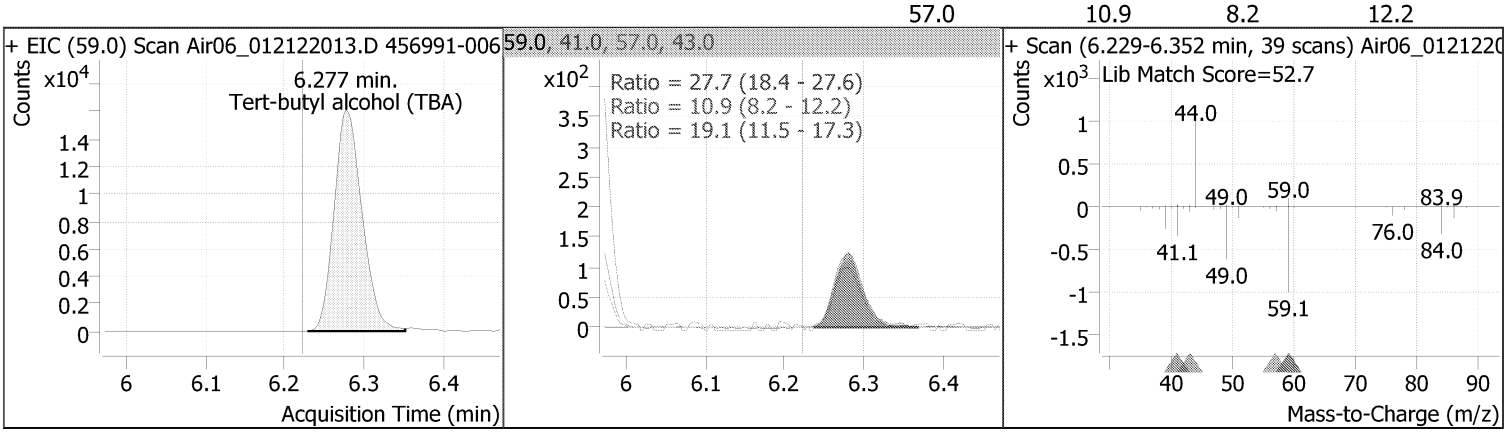
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.2673 | 5.96 | 0.01 | 26838 | 42.0 | 58.8 | 46.9 | 70.3 |
| | | | | | 41.0 | 54.4 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.6 | 11.9 | 17.8 |



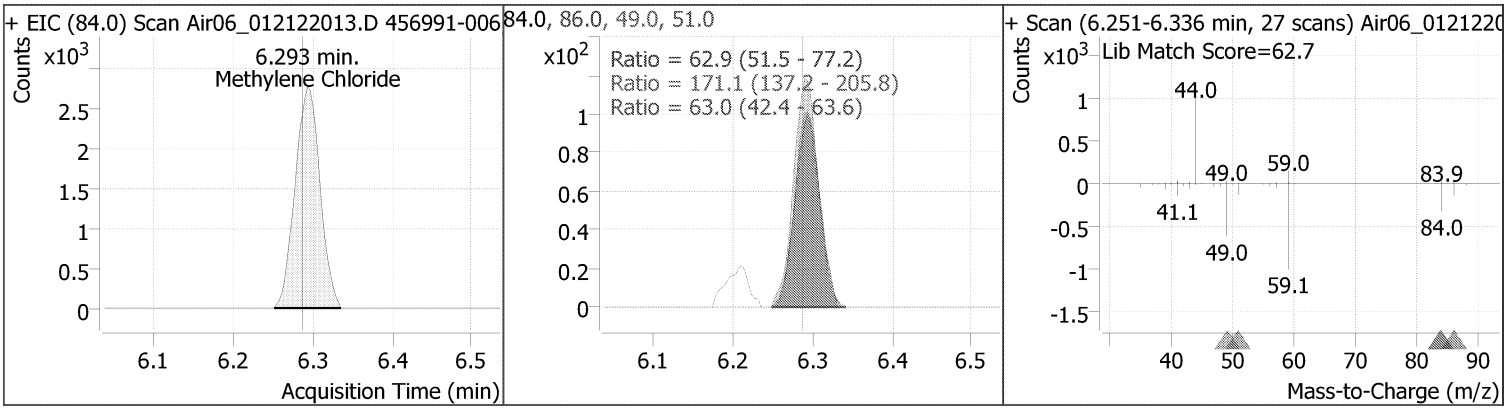

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0005 | 6.26 | 0.07 | 50 | 96.0 | | 40.6 | 60.8 |
| | | | | | 98.0 | | 25.8 | 38.7 |
| | | | | | 63.0 | | 24.7 | 37.1 |



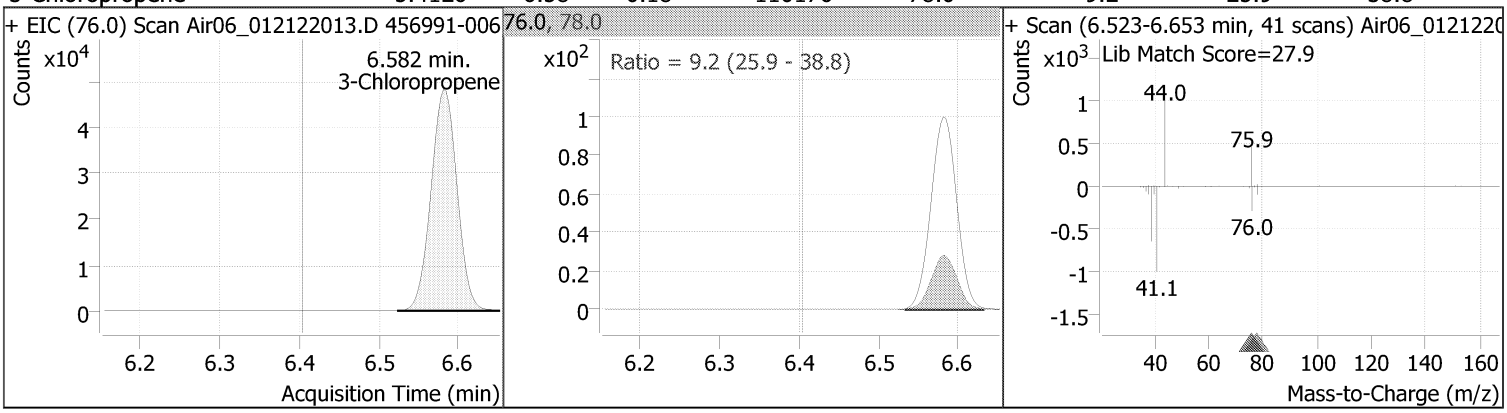

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.3805 | 6.28 | 0.06 | 39555 | 41.0 | 27.7 | 18.4 | 27.6 |
| | | | | | 43.0 | 19.1 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.9 | 8.2 | 12.2 |



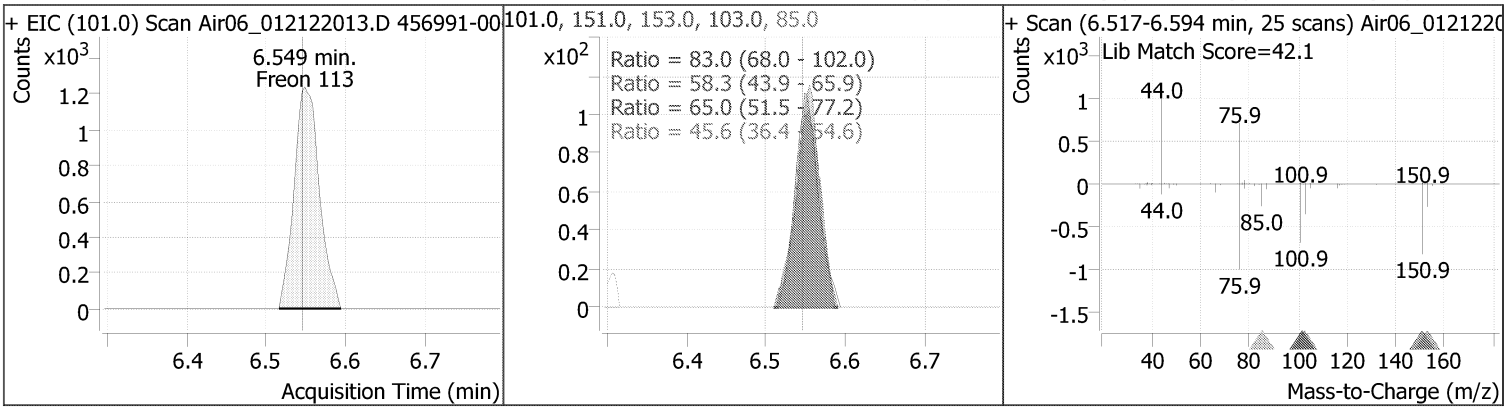
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1379 | 6.29 | 0.01 | 6090 | 49.0 | 171.1 | 137.2 | 205.8 |
| | | | | | 86.0 | 62.9 | 51.5 | 77.2 |
| | | | | | 51.0 | 63.0 | 42.4 | 63.6 |



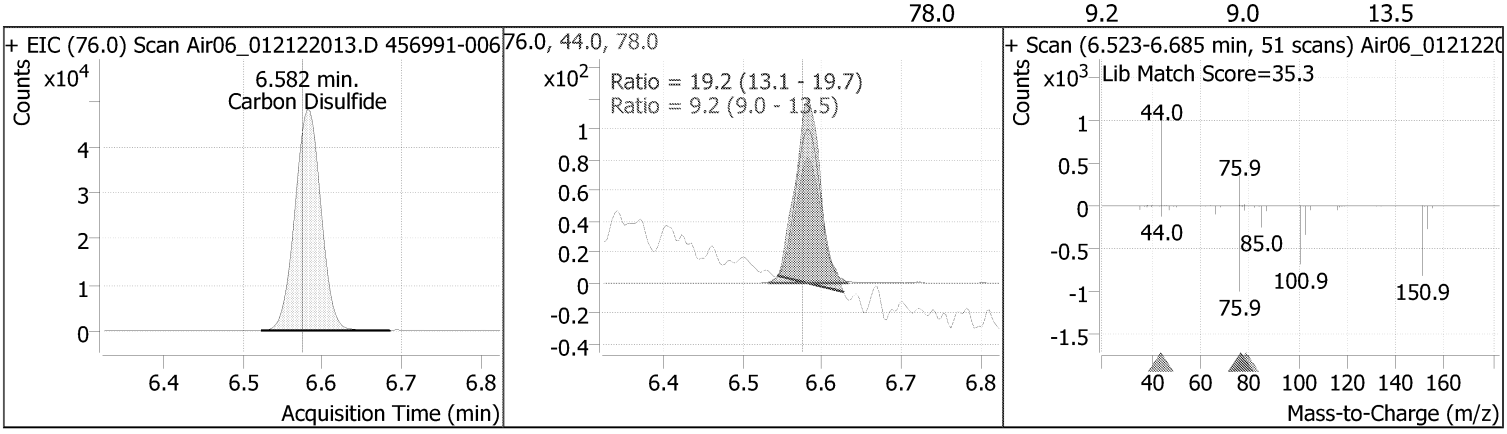

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 5.4126 | 6.58 | 0.18 | 110176 | 78.0 | 9.2 | 25.9 | 38.8 |



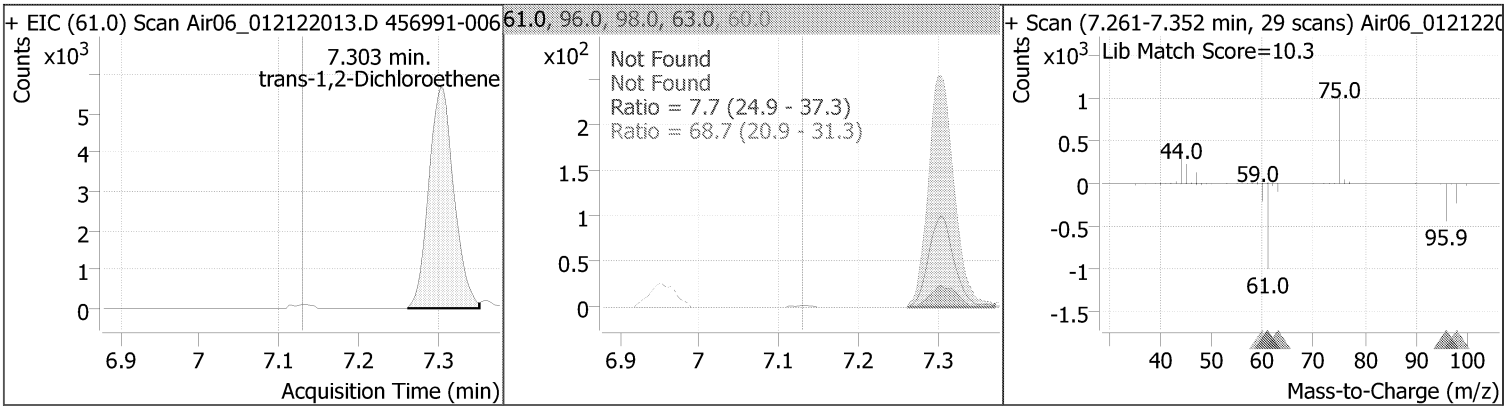

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.0279 | 6.55 | 0.01 | 2747 | 151.0 | 83.0 | 68.0 | 102.0 |
| | | | | | 103.0 | 65.0 | 51.5 | 77.2 |
| | | | | | 153.0 | 58.3 | 43.9 | 65.9 |
| | | | | | 85.0 | 45.6 | 36.4 | 54.6 |



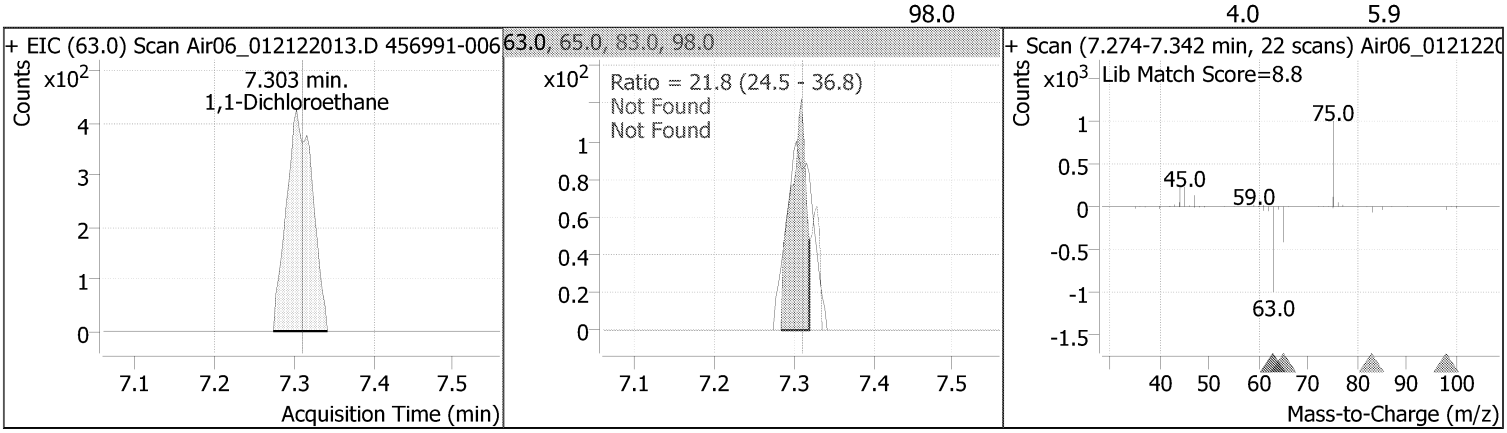
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.8647 | 6.58 | 0.01 | 110359 | 44.0 | 19.2 | 13.1 | 19.7 |
| | | | | | 78.0 | 9.2 | 9.0 | 13.5 |



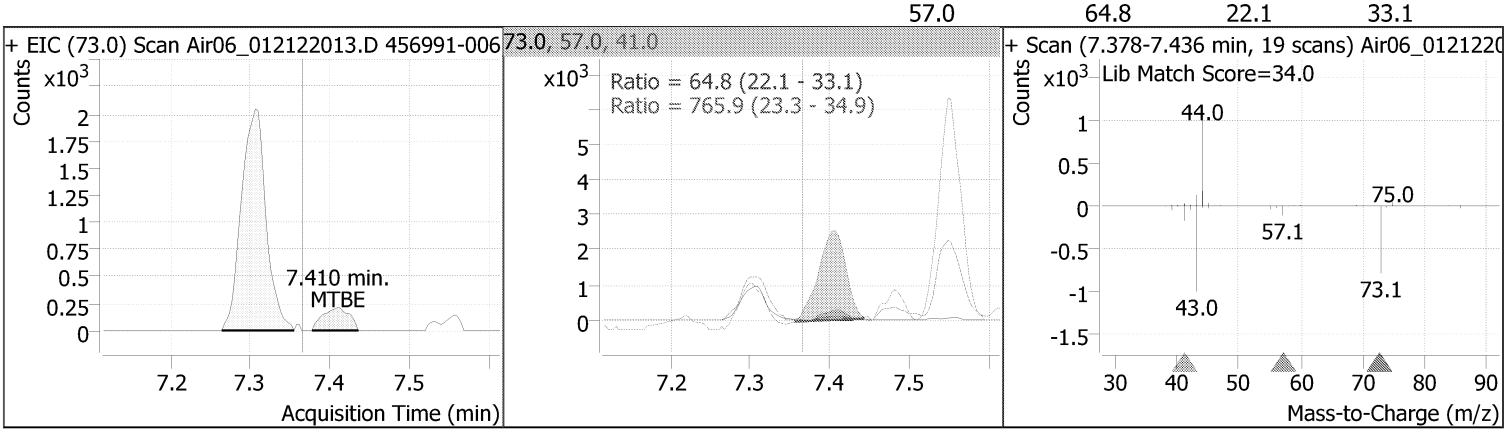

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.1639 | 7.30 | 0.18 | 12528 | 96.0 | | 45.6 | 68.4 |
| | | | | | 98.0 | | 29.2 | 43.8 |
| | | | | | 63.0 | 7.7 | 24.9 | 37.3 |
| | | | | | 60.0 | 68.7 | 20.9 | 31.3 |



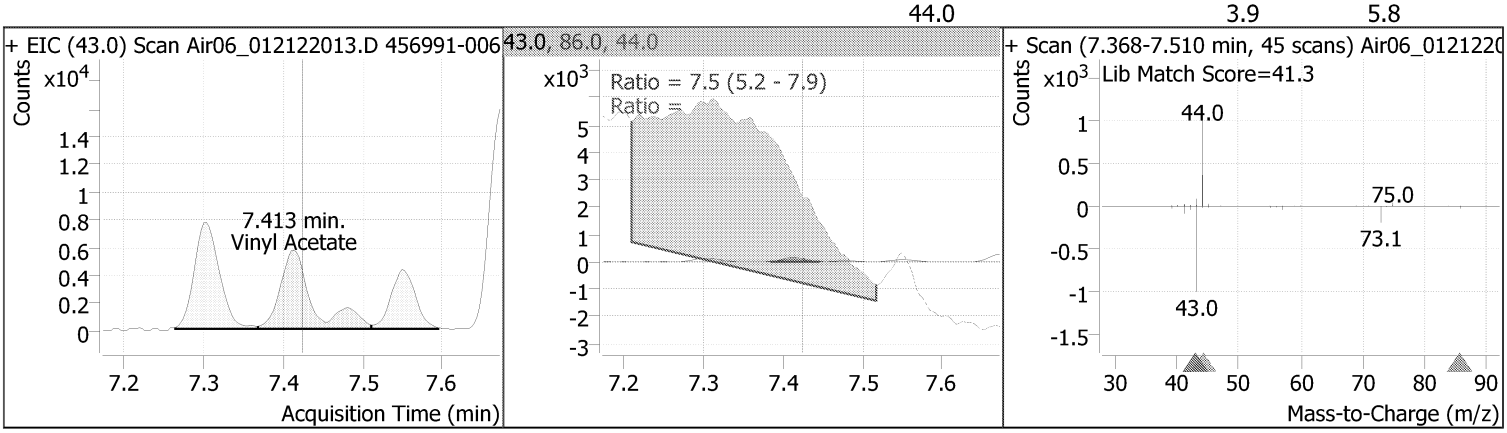

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.0103 | 7.30 | 0.00 | 968 | 65.0 | 21.8 | 24.5 | 36.8 |
| | | | | | 83.0 | | 9.7 | 14.6 |
| | | | | | 98.0 | | 4.0 | 5.9 |



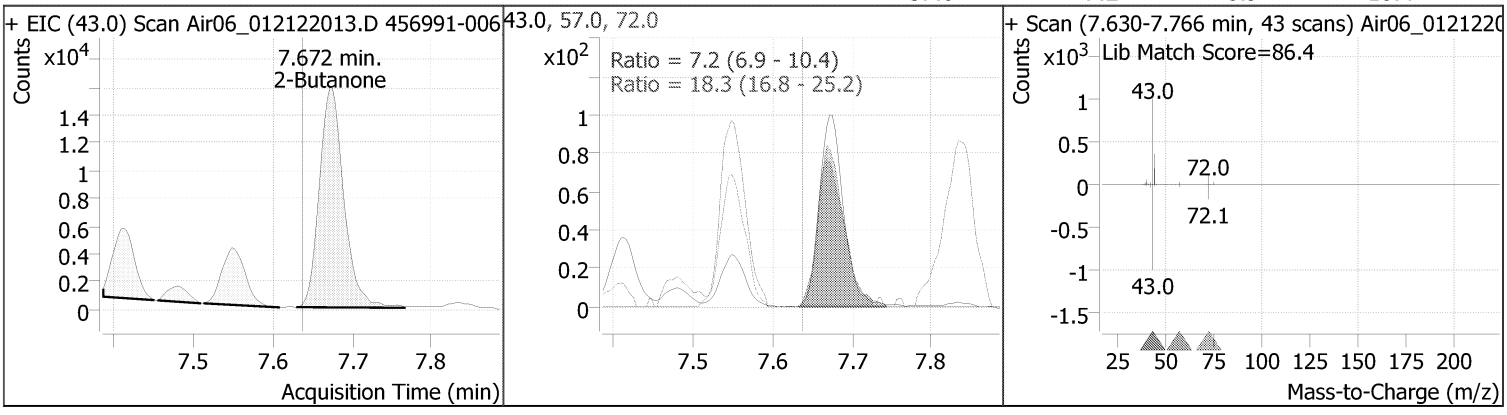
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.0040 | 7.41 | 0.05 | 495 | 41.0 | 765.9 | 23.3 | 34.9 |
| | | | | | 57.0 | 64.8 | 22.1 | 33.1 |



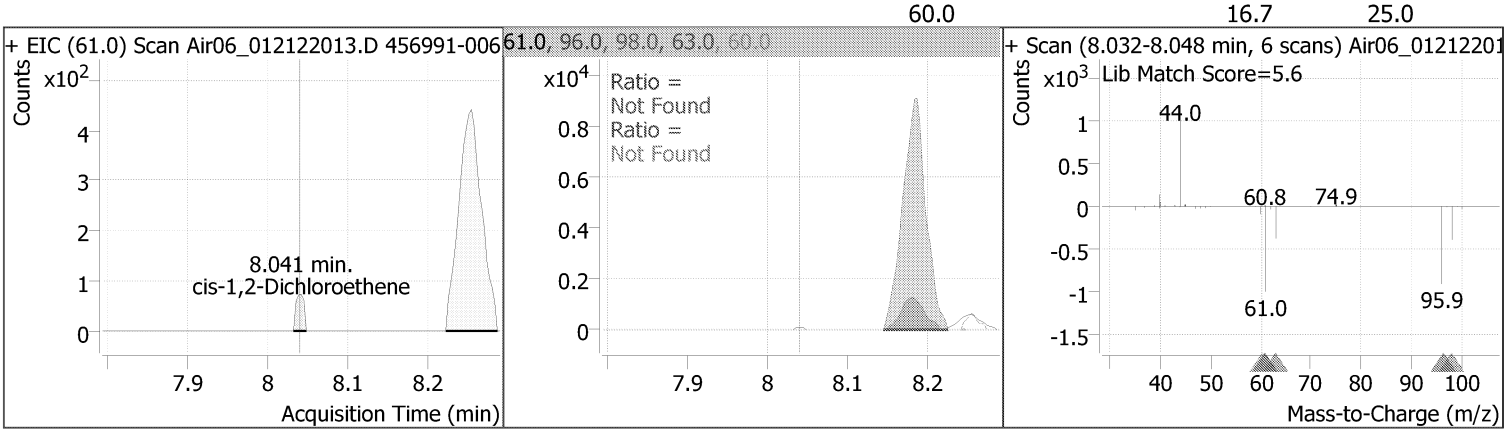

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.1031 | 7.41 | 0.00 | 16239 | 86.0 | 7.5 | 5.2 | 7.9 |
| | | | | | 44.0 | | 3.9 | 5.8 |



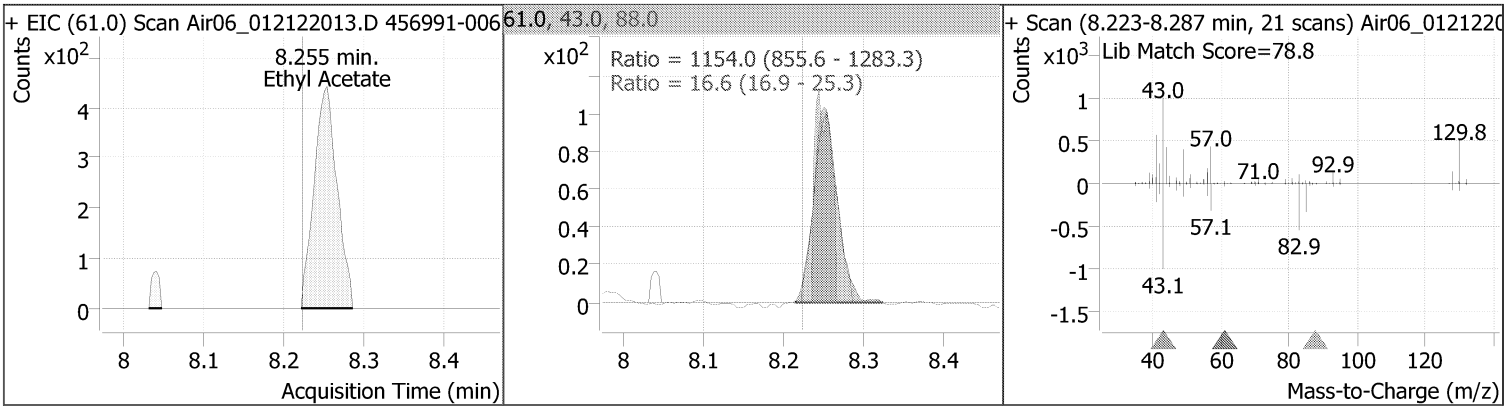

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.2798 | 7.67 | 0.04 | 33943 | 72.0 | 18.3 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.2 | 6.9 | 10.4 |



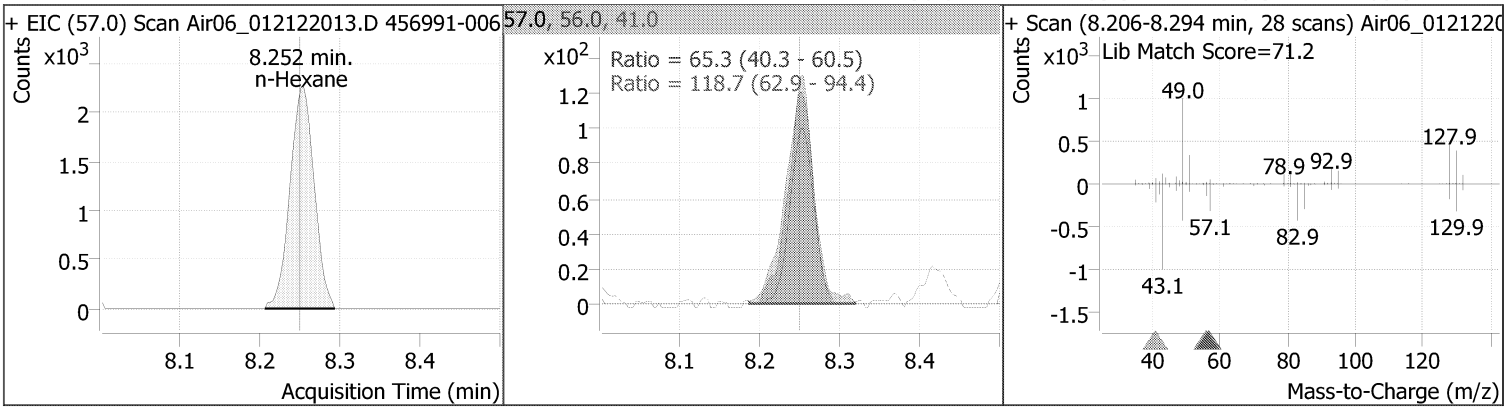
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.0007 | 8.04 | 0.01 | 52 | 96.0 | | 50.5 | 75.8 |
| | | | | | 98.0 | | 32.0 | 48.0 |
| | | | | | 63.0 | | 25.0 | 37.4 |
| | | | | | 60.0 | | 16.7 | 25.0 |



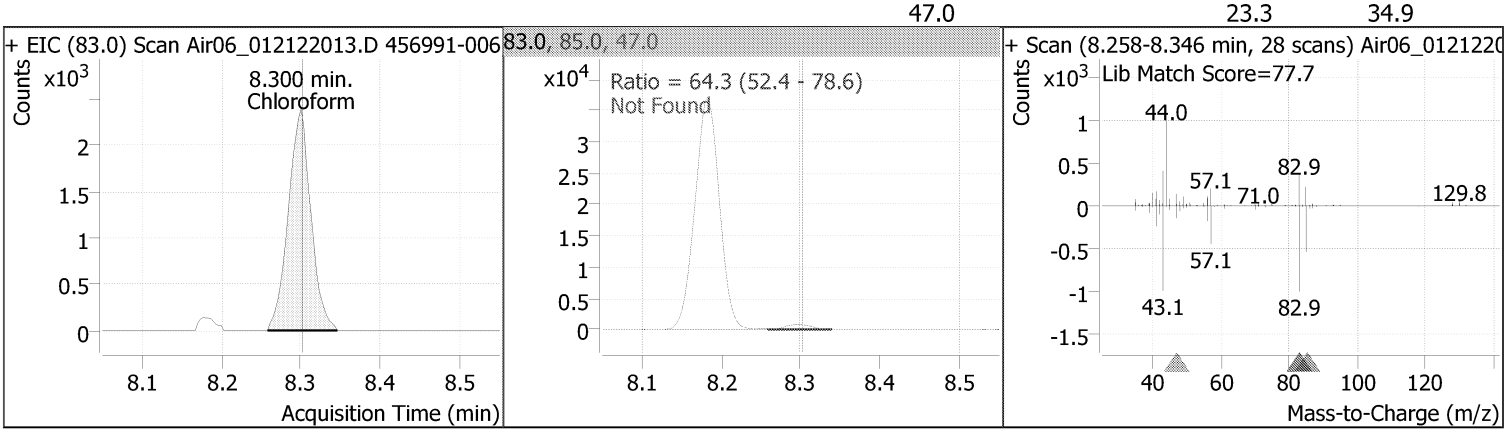

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.0464 | 8.25 | 0.04 | 883 | 43.0 | 1154.0 | 855.6 | 1283.3 |
| | | | | | 88.0 | 16.6 | 16.9 | 25.3 |



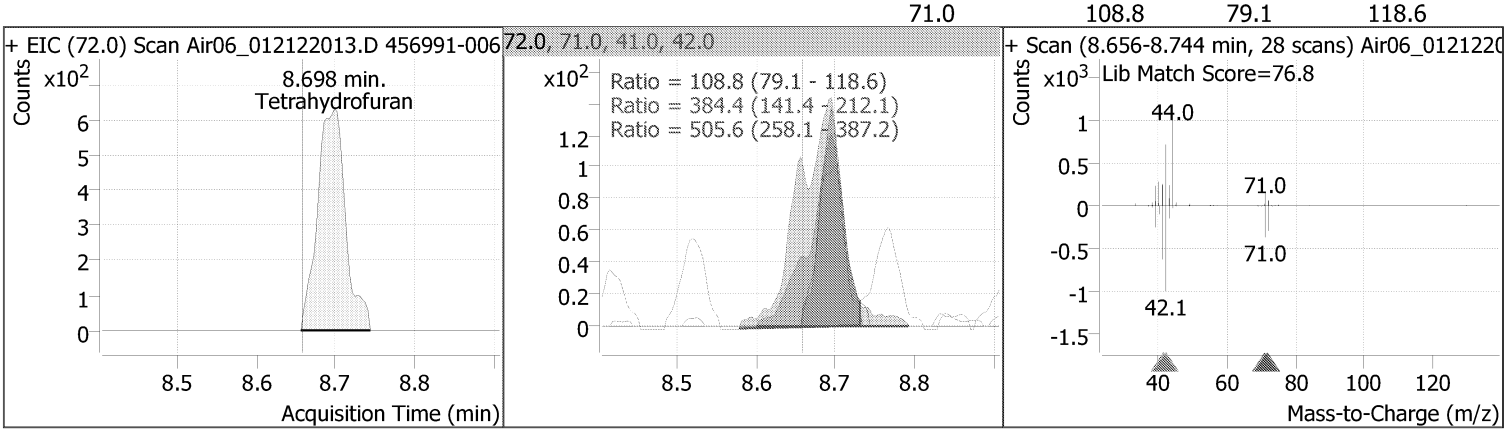

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0548 | 8.25 | 0.01 | 4792 | 41.0 | 118.7 | 62.9 | 94.4 |
| | | | | | 56.0 | 65.3 | 40.3 | 60.5 |



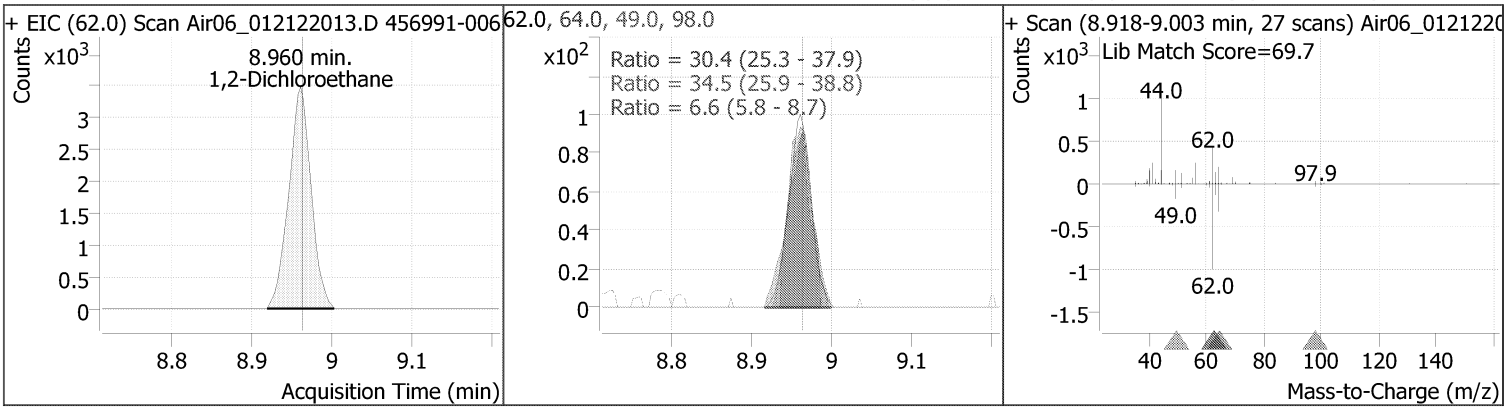
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0475 | 8.30 | 0.01 | 4687 | 85.0 | 64.3 | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



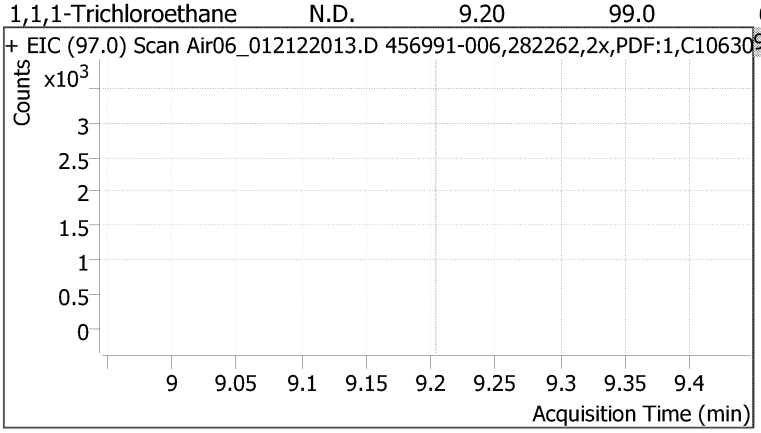

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.0714 | 8.70 | 0.05 | 1553 | 42.0 | 505.6 | 258.1 | 387.2 |
| | | | | | 41.0 | 384.4 | 141.4 | 212.1 |
| | | | | | 71.0 | 108.8 | 79.1 | 118.6 |

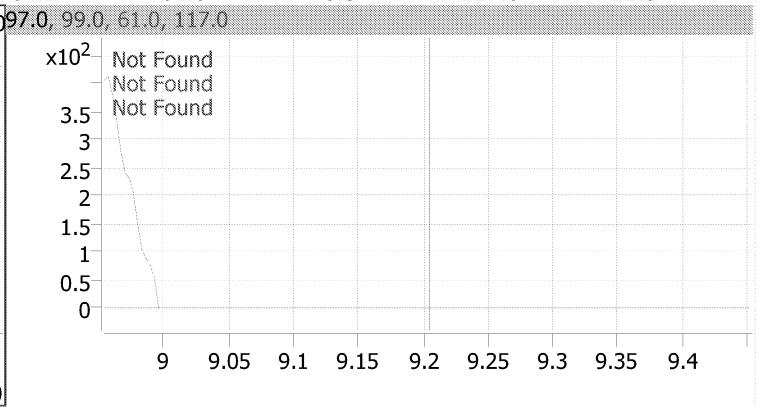



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0939 | 8.96 | 0.01 | 6781 | 49.0 | 34.5 | 25.9 | 38.8 |
| | | | | | 64.0 | 30.4 | 25.3 | 37.9 |
| | | | | | 98.0 | 6.6 | 5.8 | 8.7 |

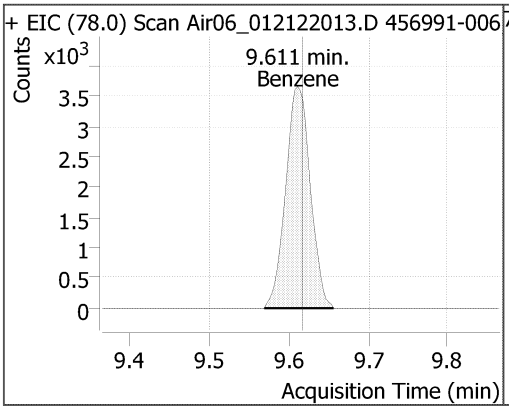


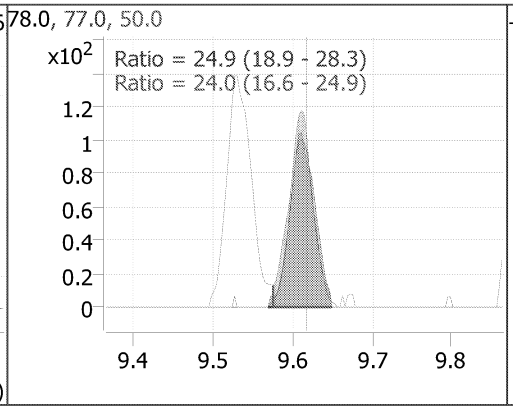
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | N.D. | 9.20 | 99.0 | 64.2 | 61.0 | 48.3 | 117.0 | 12.8 |

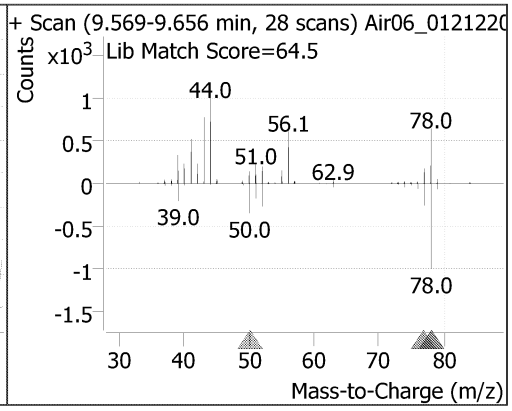


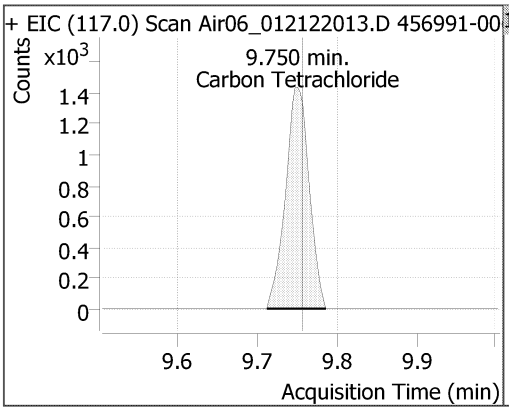

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0556 | 9.61 | 0.00 | 7903 | 77.0 | 24.9 | 18.9 | 28.3 |
| | | | | | 50.0 | 24.0 | 16.6 | 24.9 |

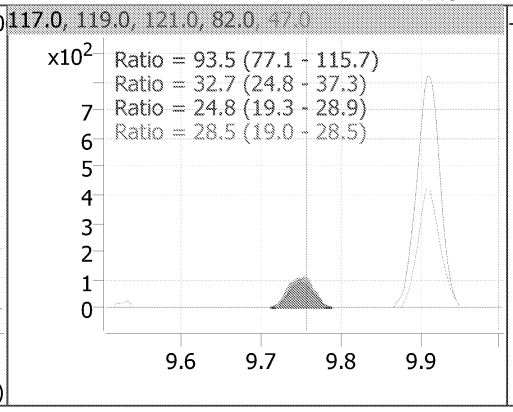


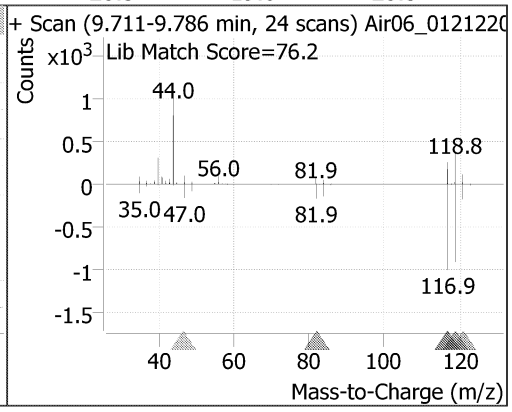



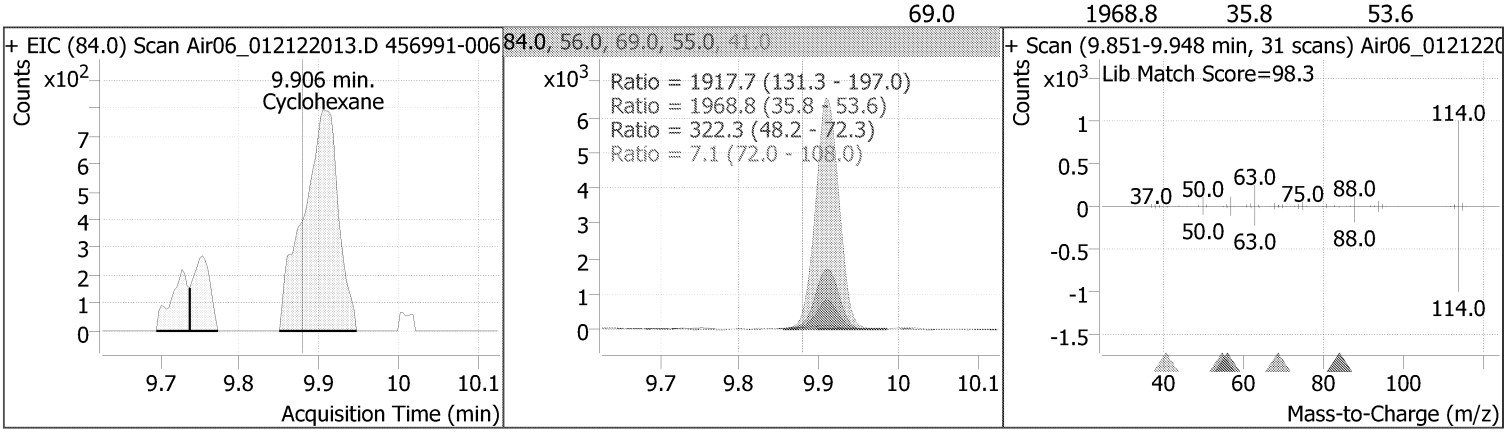

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.0293 | 9.75 | 0.00 | 2980 | 119.0 | 93.5 | 77.1 | 115.7 |
| | | | | | 121.0 | 32.7 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.8 | 19.3 | 28.9 |
| | | | | | 47.0 | 28.5 | 19.0 | 28.5 |



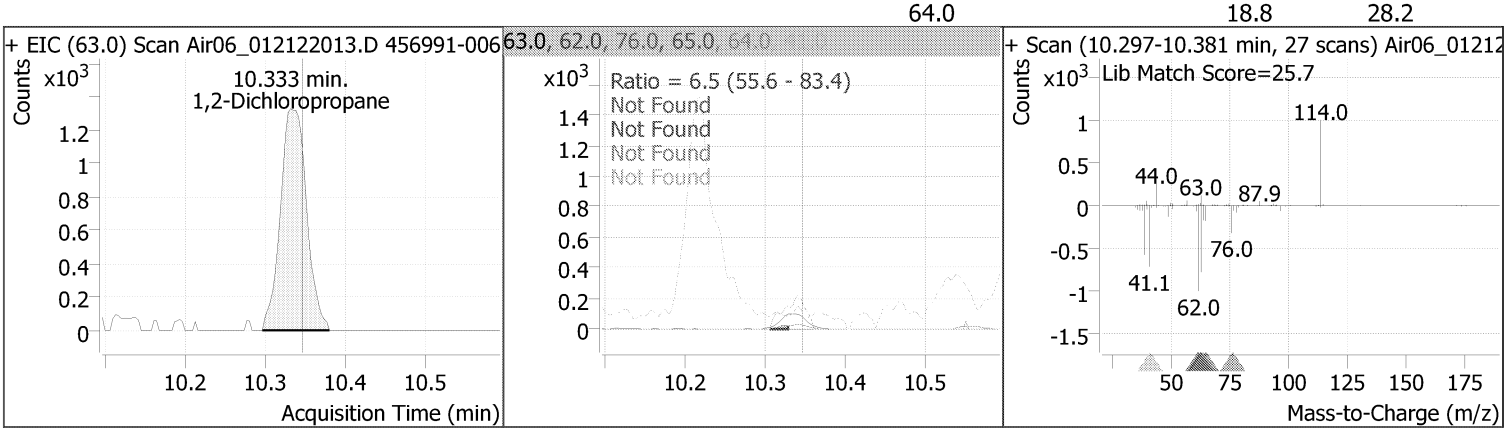



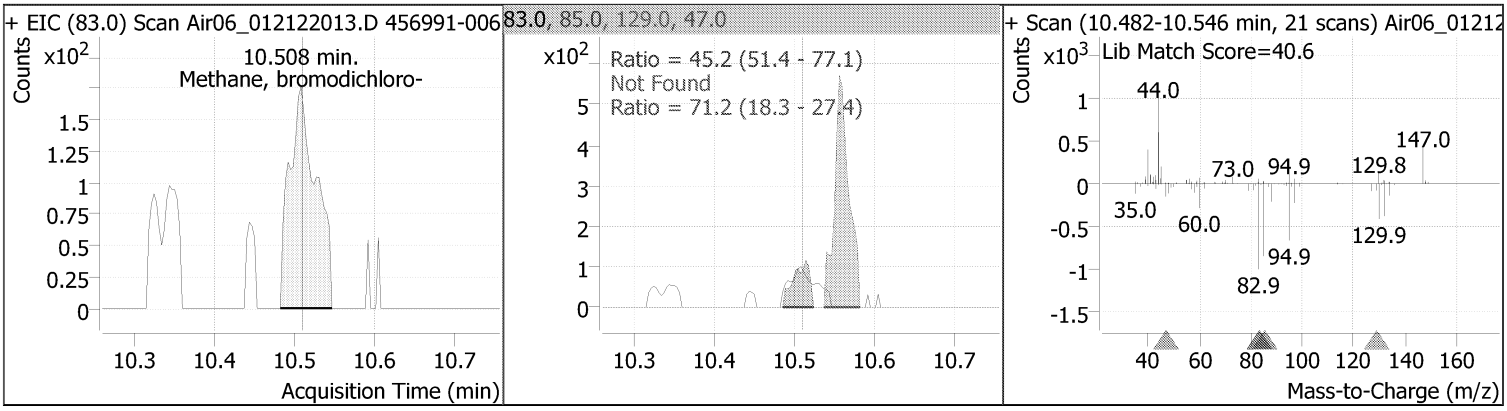
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0411 | 9.91 | 0.04 | 2440 | 56.0 | 1917.7 | 131.3 | 197.0 |
| | | | | | 41.0 | 7.1 | 72.0 | 108.0 |
| | | | | | 55.0 | 322.3 | 48.2 | 72.3 |
| | | | | | 69.0 | 1968.8 | 35.8 | 53.6 |



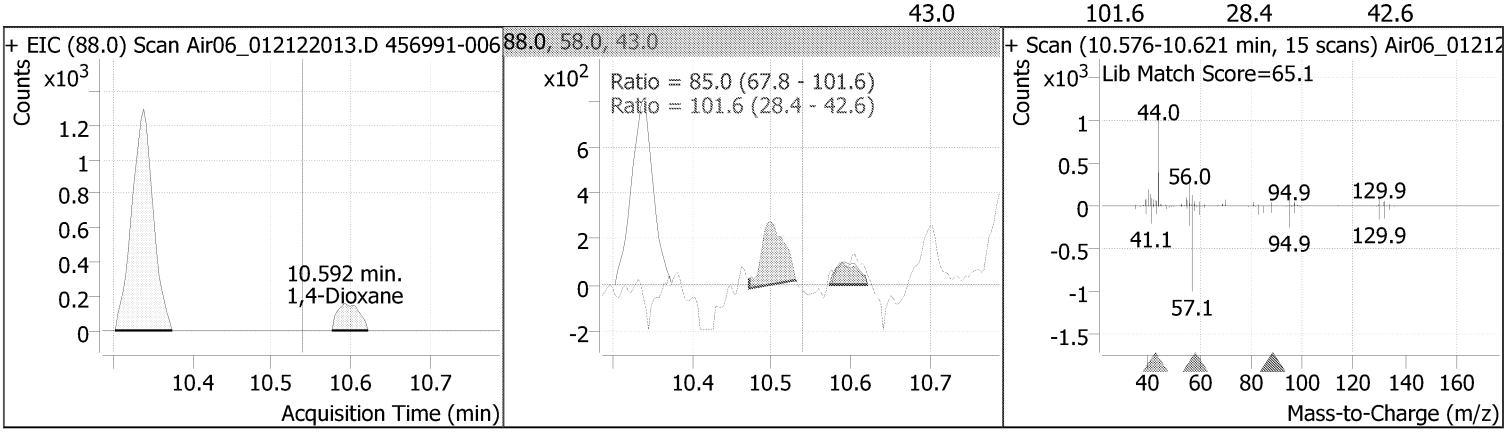

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0455 | 10.33 | -0.01 | 3034 | 62.0 | 6.5 | 55.6 | 83.4 |
| | | | | | 41.0 | | 46.5 | 69.7 |
| | | | | | 76.0 | | 28.4 | 42.6 |
| | | | | | 65.0 | | 23.7 | 35.6 |
| | | | | | 64.0 | | 18.8 | 28.2 |



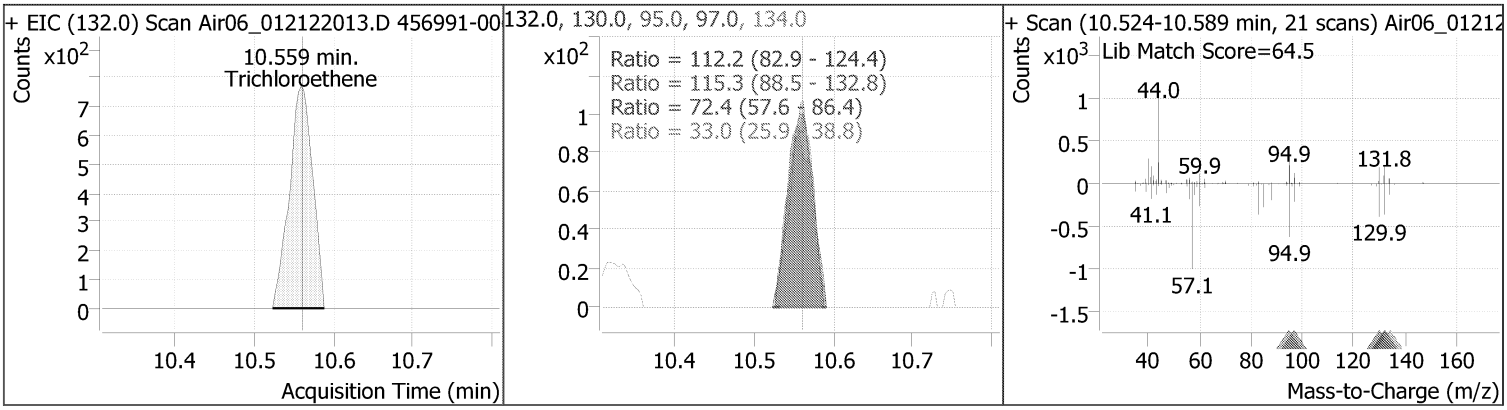

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0038 | 10.51 | 0.00 | 412 | 85.0 | 45.2 | 51.4 | 77.1 |
| | | | | | 47.0 | 71.2 | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



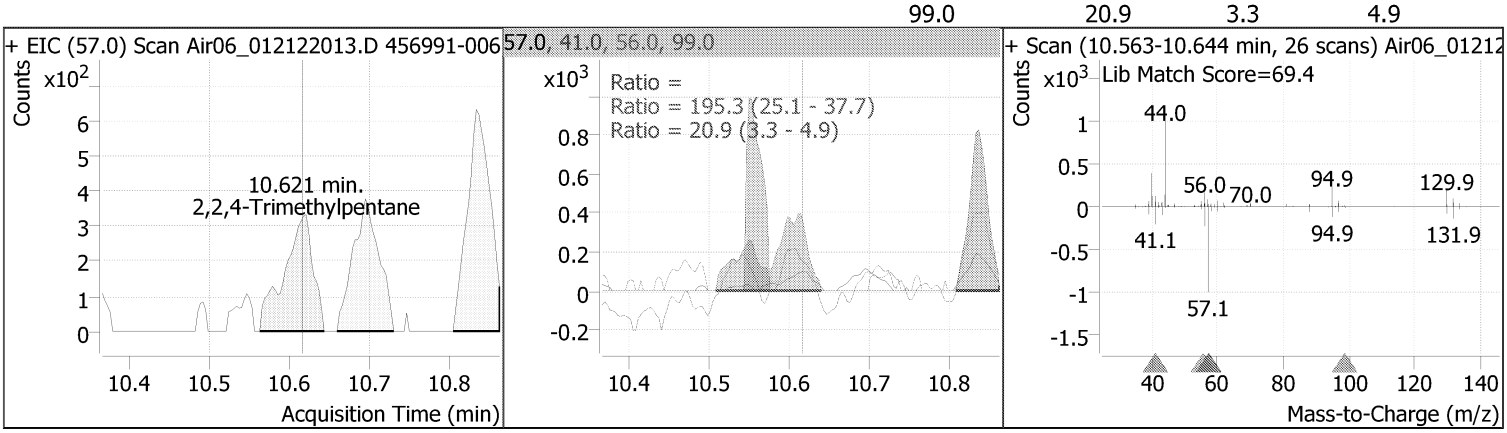
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0087 | 10.59 | 0.06 | 302 | 58.0 | 85.0 | 67.8 | 101.6 |
| | | | | | 43.0 | 101.6 | 28.4 | 42.6 |



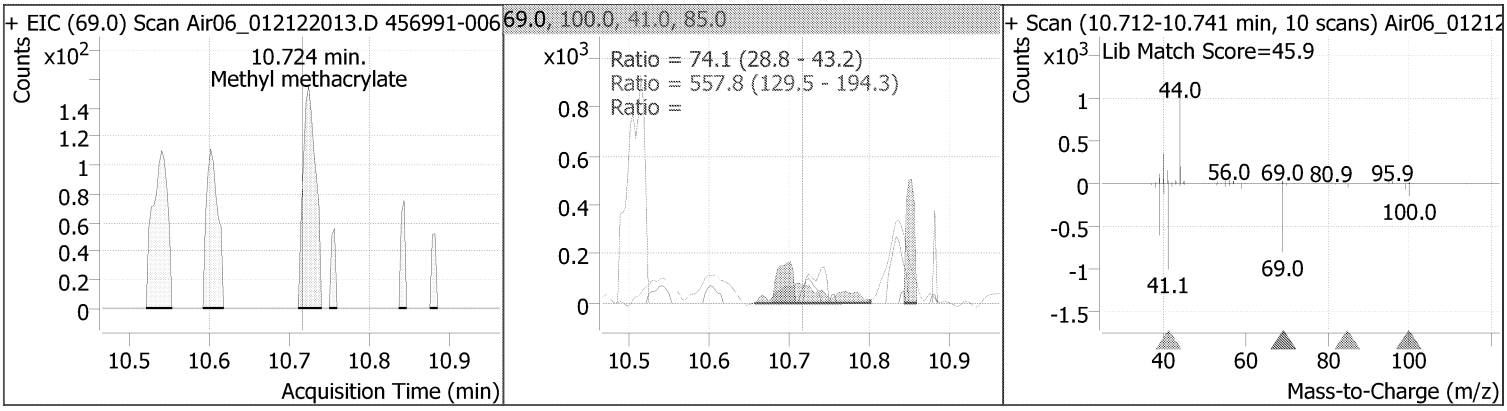

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0230 | 10.56 | 0.00 | 1564 | 95.0 | 115.3 | 88.5 | 132.8 |
| | | | | | 130.0 | 112.2 | 82.9 | 124.4 |
| | | | | | 97.0 | 72.4 | 57.6 | 86.4 |
| | | | | | 134.0 | 33.0 | 25.9 | 38.8 |



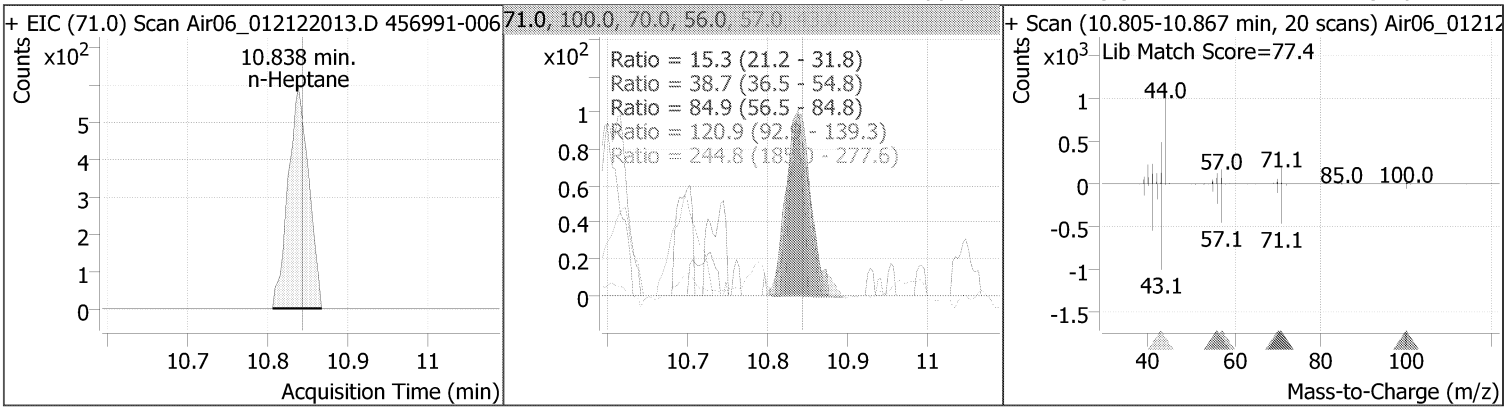

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0028 | 10.62 | 0.01 | 841 | 56.0 | 195.3 | 25.1 | 37.7 |
| | | | | | 41.0 | | 22.2 | 33.3 |
| | | | | | 99.0 | 20.9 | 3.3 | 4.9 |



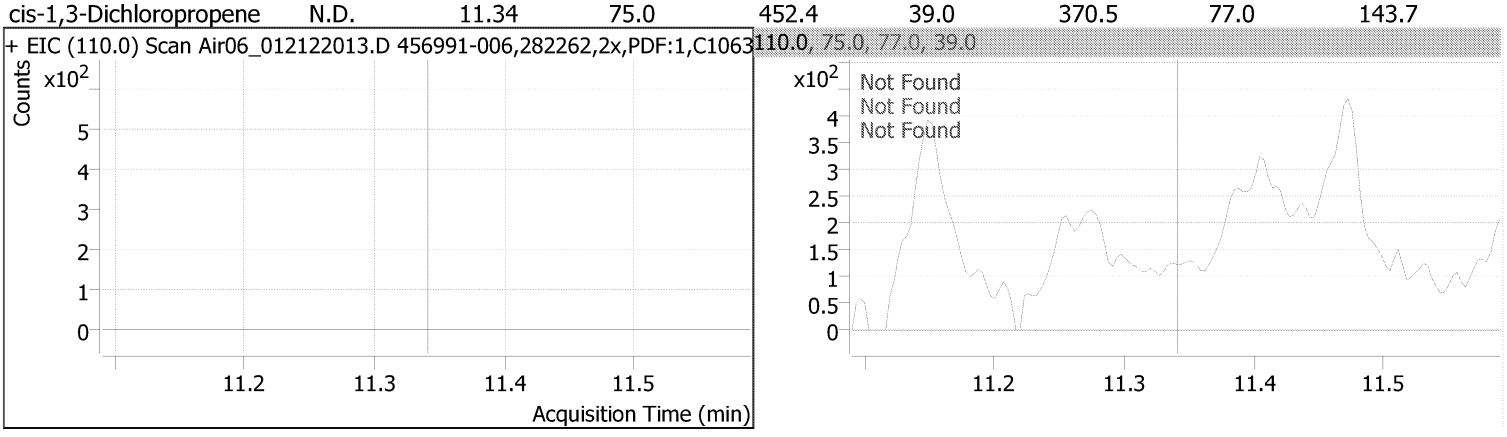
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0030 | 10.72 | 0.01 | 169 | 41.0 | 557.8 | 129.5 | 194.3 |
| | | | | | 100.0 | 74.1 | 28.8 | 43.2 |
| | | | | | 85.0 | | 7.3 | 10.9 |



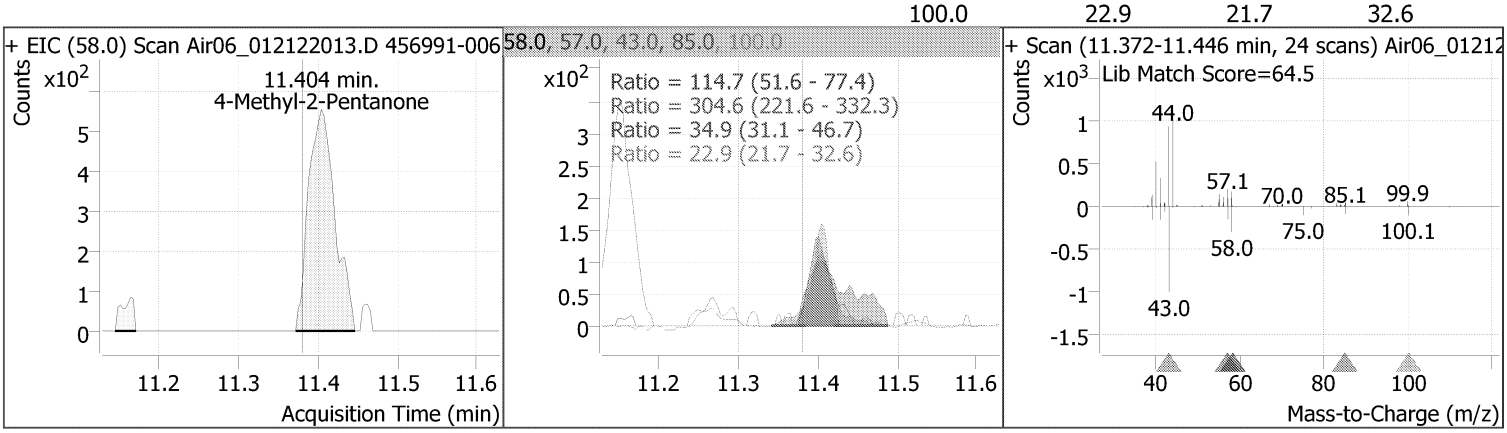

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.0204 | 10.84 | 0.00 | 1071 | 43.0 | 244.8 | 185.0 | 277.6 |
| | | | | | 57.0 | 120.9 | 92.9 | 139.3 |
| | | | | | 56.0 | 84.9 | 56.5 | 84.8 |
| | | | | | 70.0 | 38.7 | 36.5 | 54.8 |
| | | | | | 100.0 | 15.3 | 21.2 | 31.8 |



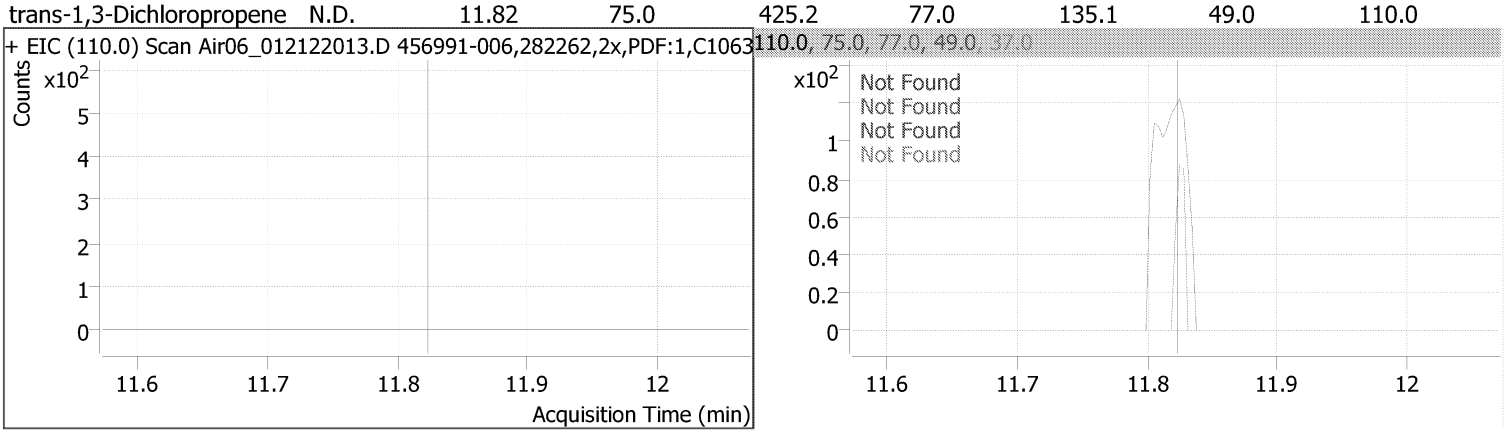

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | N.D. | 11.34 | 75.0 | 452.4 | 39.0 | 370.5 | 77.0 | 143.7 |



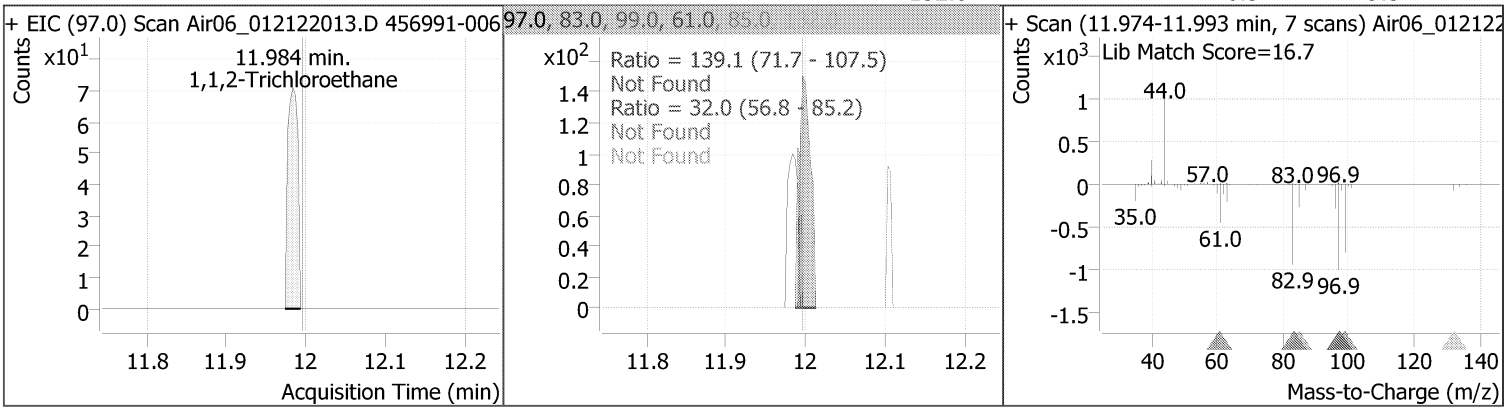
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0219 | 11.40 | 0.03 | 1281 | 43.0 | 304.6 | 221.6 | 332.3 |
| | | | | | 57.0 | 114.7 | 51.6 | 77.4 |
| | | | | | 85.0 | 34.9 | 31.1 | 46.7 |
| | | | | | 100.0 | 22.9 | 21.7 | 32.6 |



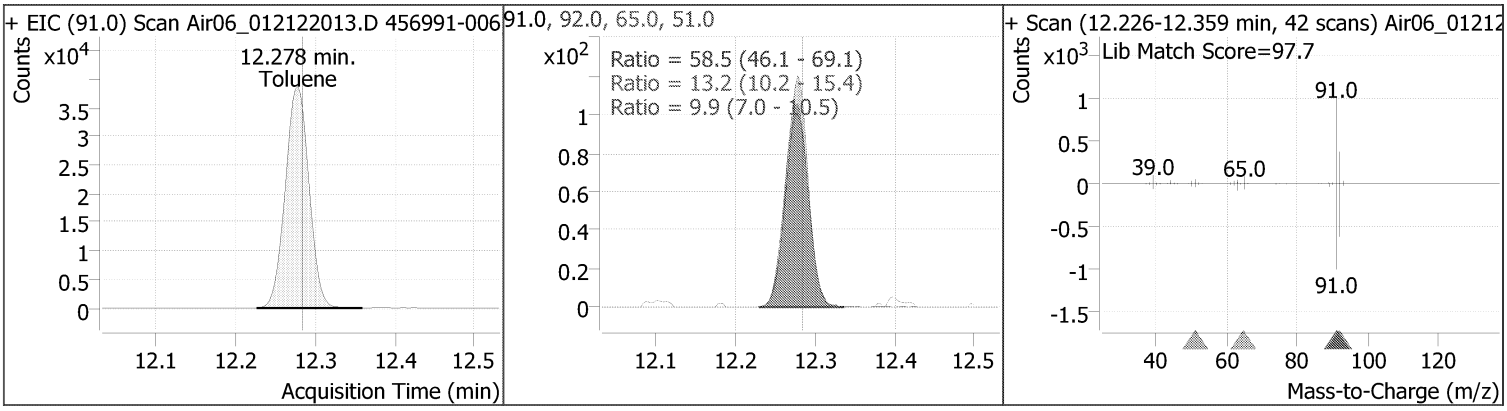

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | N.D. | 11.82 | 75.0 | 425.2 | 77.0 | 135.1 | 49.0 | 110.0 |



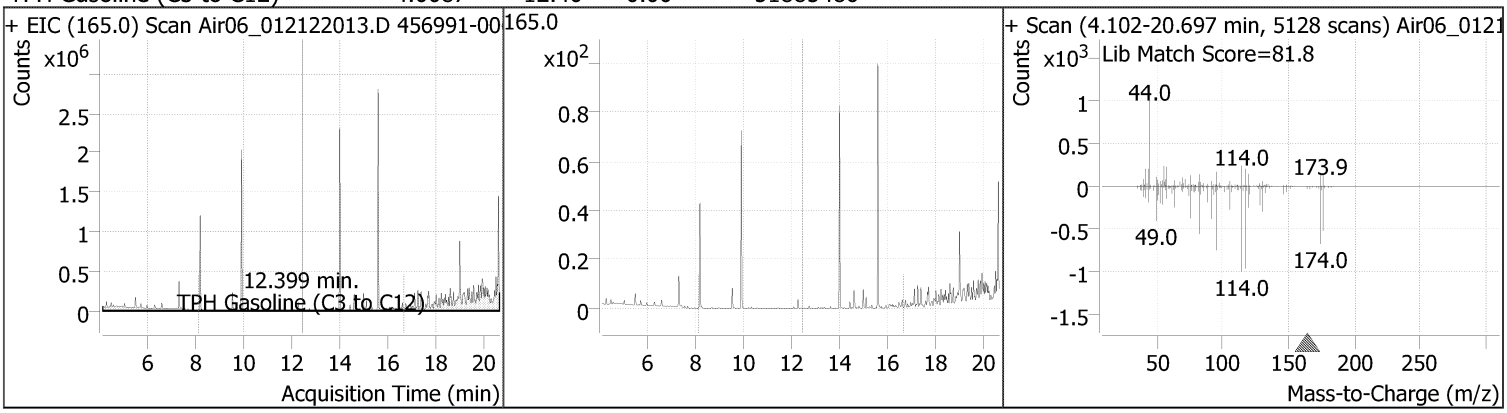

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.0010 | 11.98 | -0.01 | 62 | 83.0 | 139.1 | 71.7 | 107.5 |
| | | | | | 61.0 | 32.0 | 56.8 | 85.2 |
| | | | | | 99.0 | | 50.1 | 75.2 |
| | | | | | 85.0 | | 46.0 | 69.0 |
| | | | | | 132.0 | | 6.3 | 9.5 |



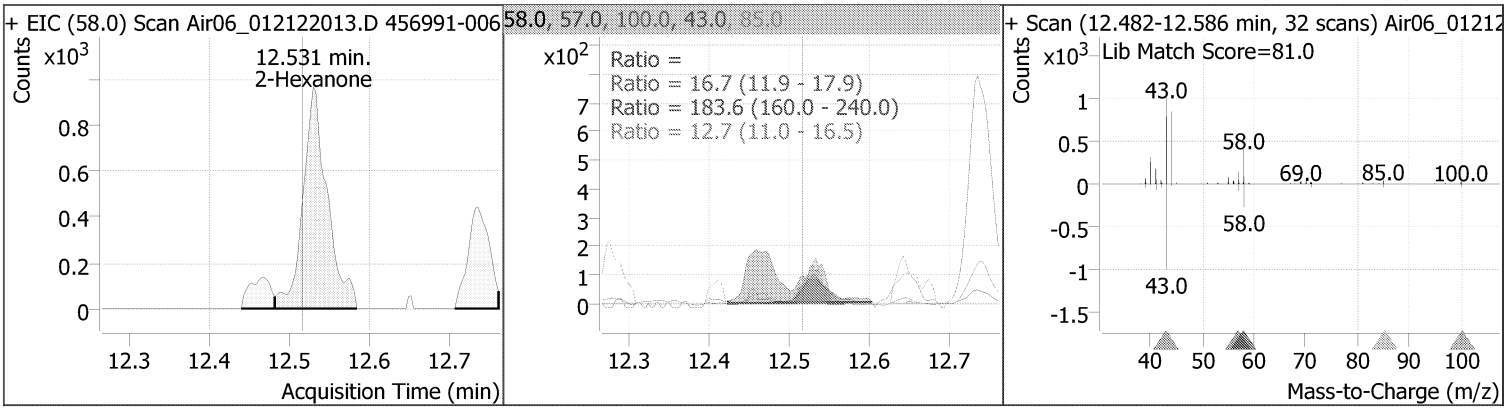
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.4162 | 12.28 | 0.00 | 80379 | 92.0 | 58.5 | 46.1 | 69.1 |
| | | | | | 65.0 | 13.2 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.9 | 7.0 | 10.5 |



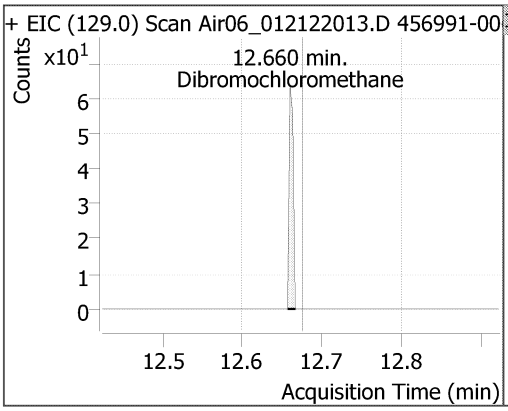

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 4.0087 | 12.40 | 0.00 | 51885486 | | | | |

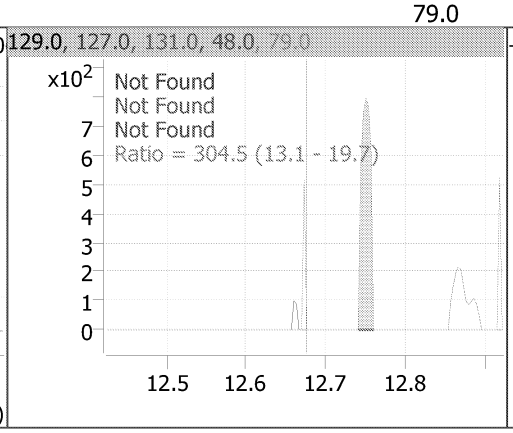


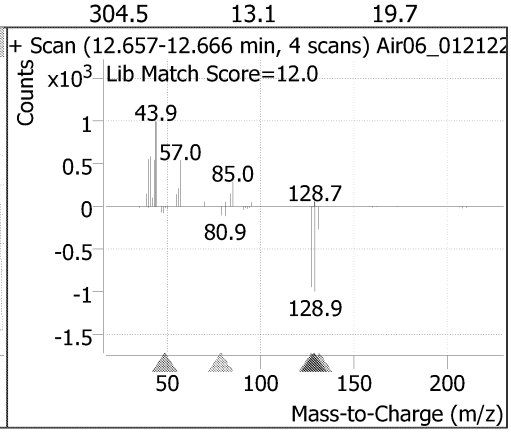

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.0274 | 12.53 | 0.02 | 2061 | 43.0 | 183.6 | 160.0 | 240.0 |
| | | | | | 57.0 | | 28.1 | 42.1 |
| | | | | | 100.0 | 16.7 | 11.9 | 17.9 |
| | | | | | 85.0 | 12.7 | 11.0 | 16.5 |



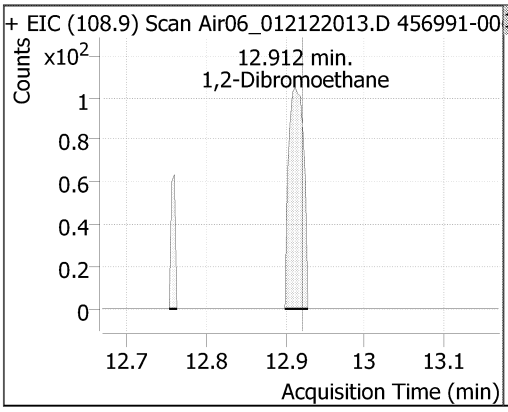
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.0002 | 12.66 | -0.01 | 23 | 127.0 | | 62.0 | 93.0 |
| | | | | | 131.0 | | 19.3 | 29.0 |
| | | | | | 48.0 | | 14.0 | 21.0 |
| | | | | | 79.0 | 304.5 | 13.1 | 19.7 |

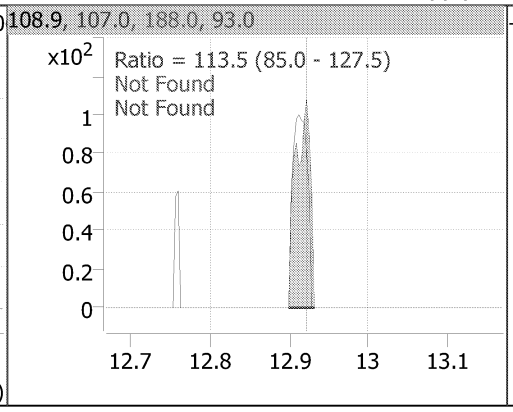


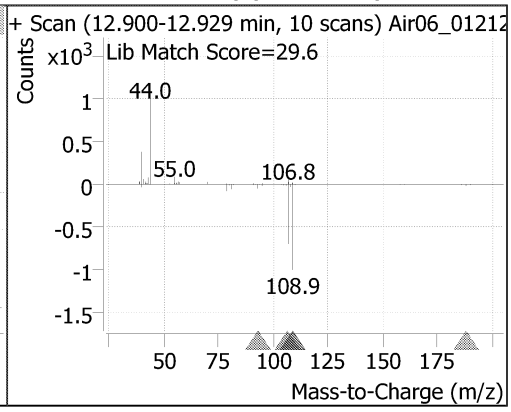



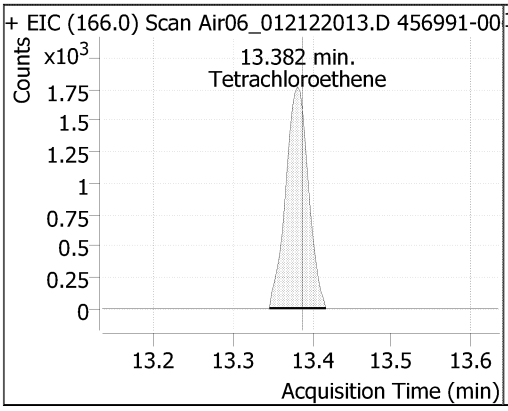

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.0014 | 12.91 | 0.00 | 137 | 107.0 | 113.5 | 85.0 | 127.5 |
| | | | | | 93.0 | | 5.4 | 8.1 |
| | | | | | 188.0 | | 3.5 | 5.2 |

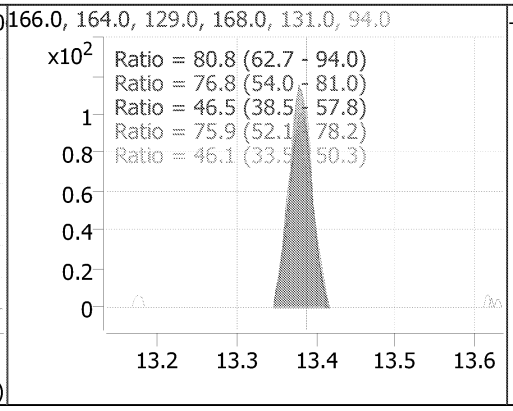


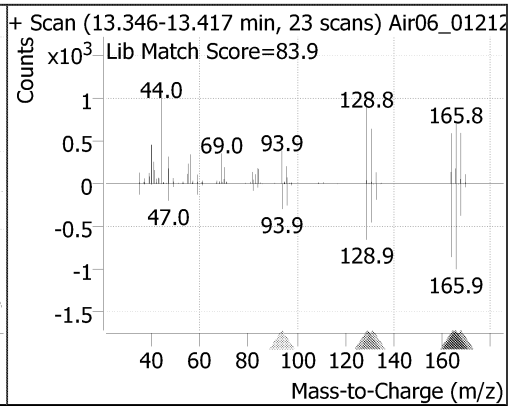



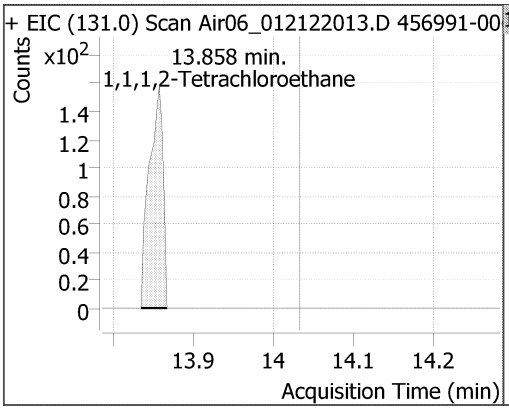

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0350 | 13.38 | 0.00 | 3498 | 164.0 | 80.8 | 62.7 | 94.0 |
| | | | | | 129.0 | 76.8 | 54.0 | 81.0 |
| | | | | | 131.0 | 75.9 | 52.1 | 78.2 |
| | | | | | 168.0 | 46.5 | 38.5 | 57.8 |
| | | | | | 94.0 | 46.1 | 33.5 | 50.3 |

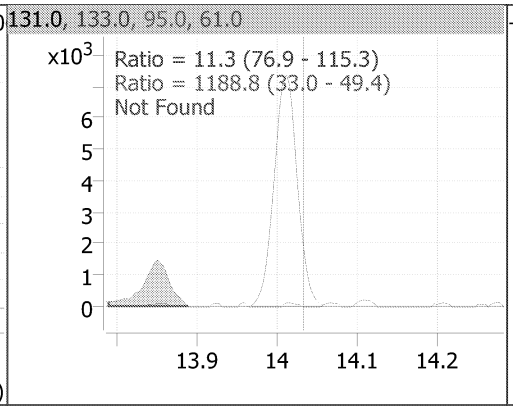


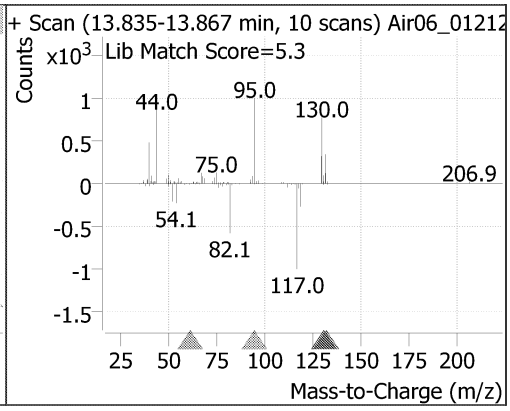



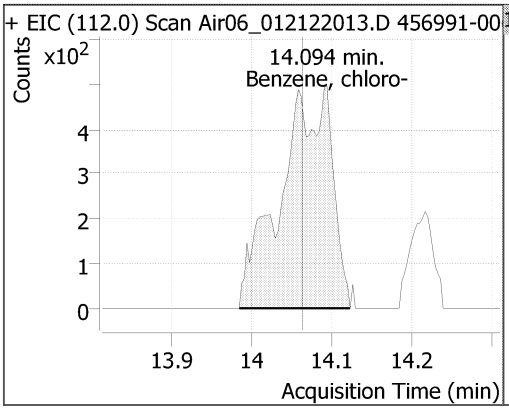
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0027 | 13.86 | -0.18 | 189 | 133.0 | 11.3 | 76.9 | 115.3 |
| | | | | | 95.0 | 1188.8 | 33.0 | 49.4 |
| | | | | | 61.0 | | 25.4 | 38.1 |

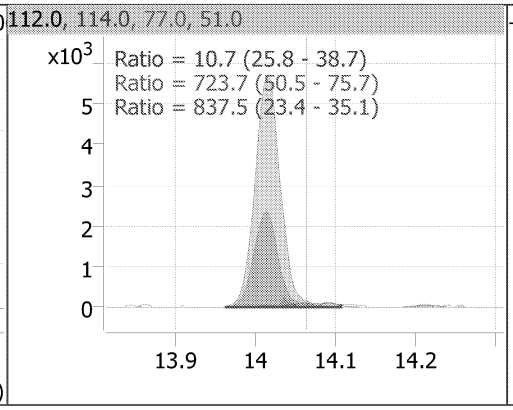


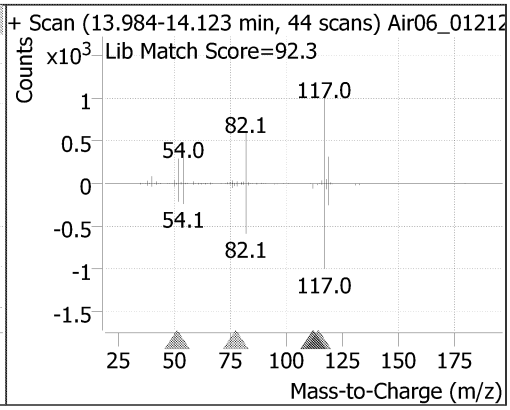



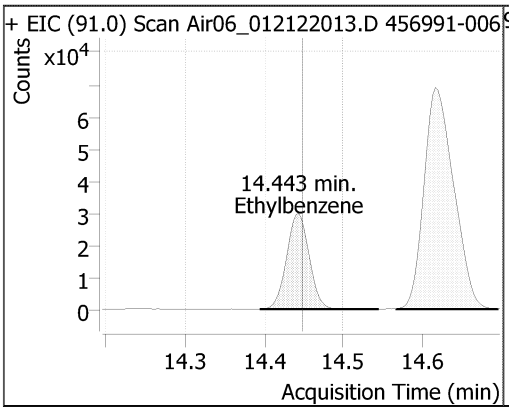

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0162 | 14.09 | 0.03 | 2222 | 77.0 | 723.7 | 50.5 | 75.7 |
| | | | | | 114.0 | 10.7 | 25.8 | 38.7 |
| | | | | | 51.0 | 837.5 | 23.4 | 35.1 |

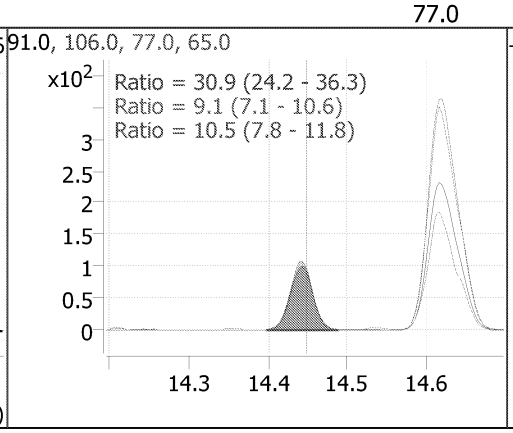


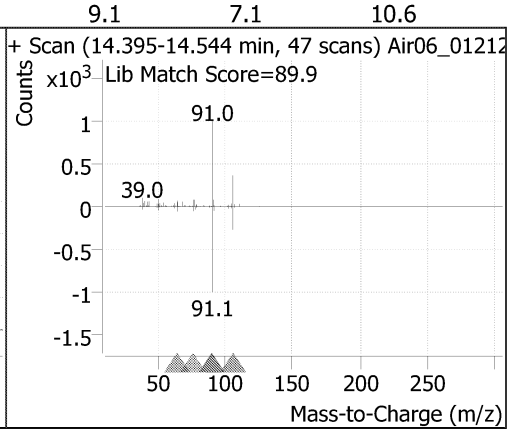




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.2687 | 14.44 | 0.00 | 58748 | 106.0 | 30.9 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.5 | 7.8 | 11.8 |
| | | | | | 77.0 | 9.1 | 7.1 | 10.6 |

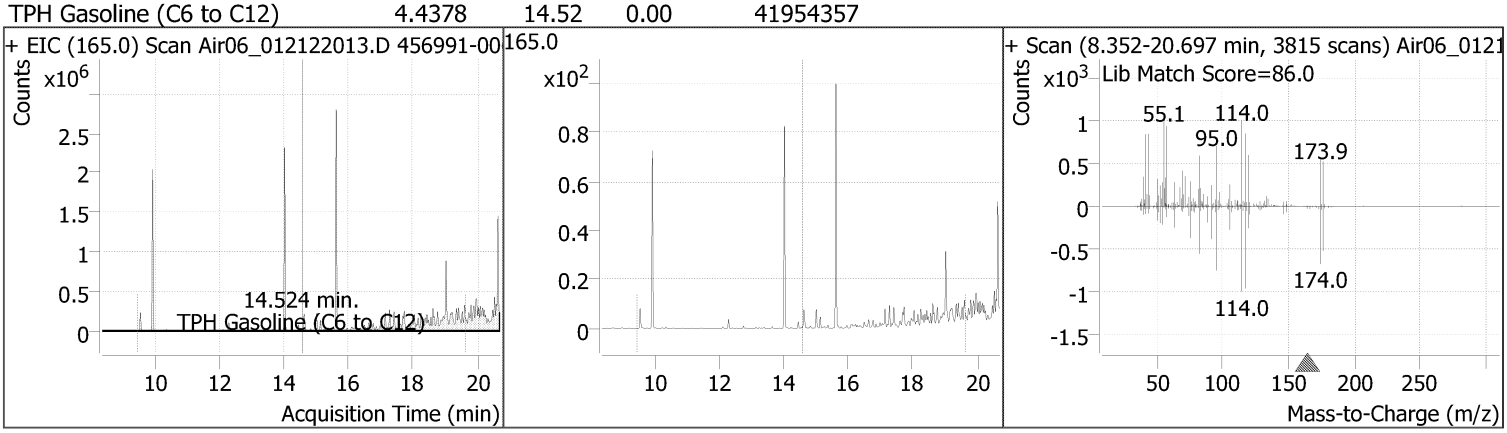


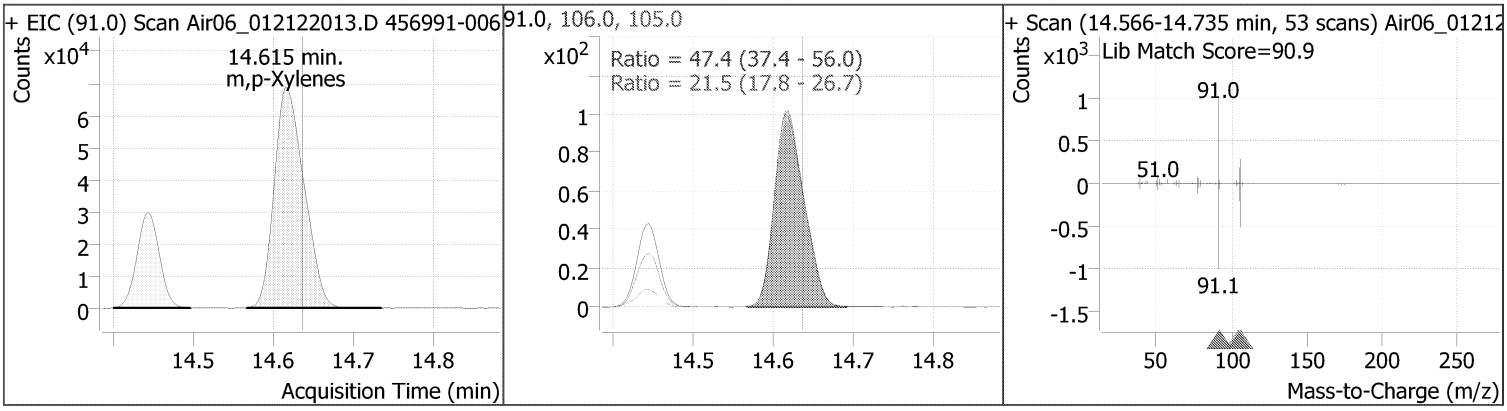



# Quantitation Results Report (Not Reviewed)

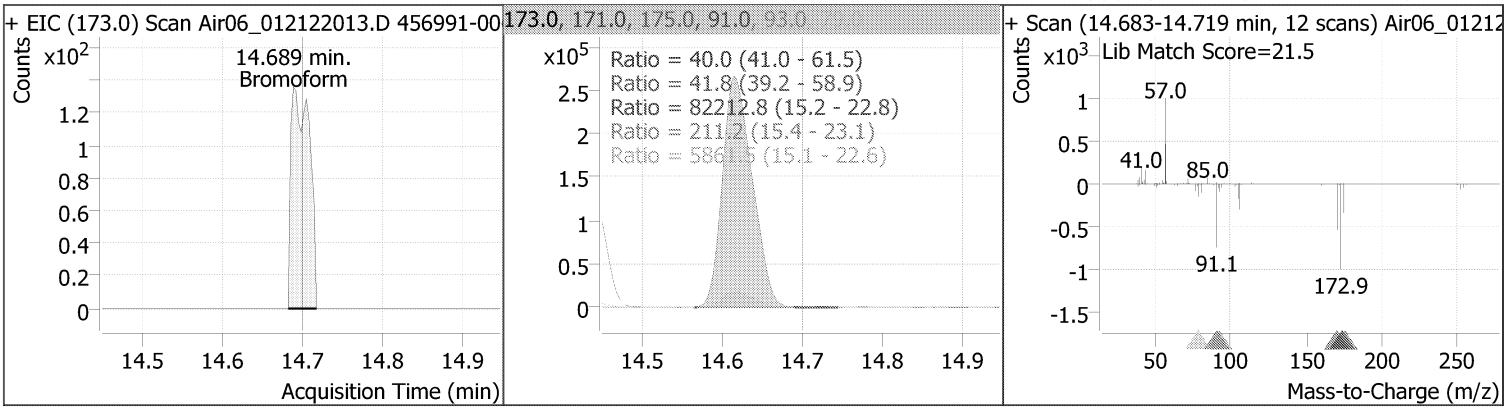
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 4.4378 | 14.52 | 0.00 | 41954357 | | | | |



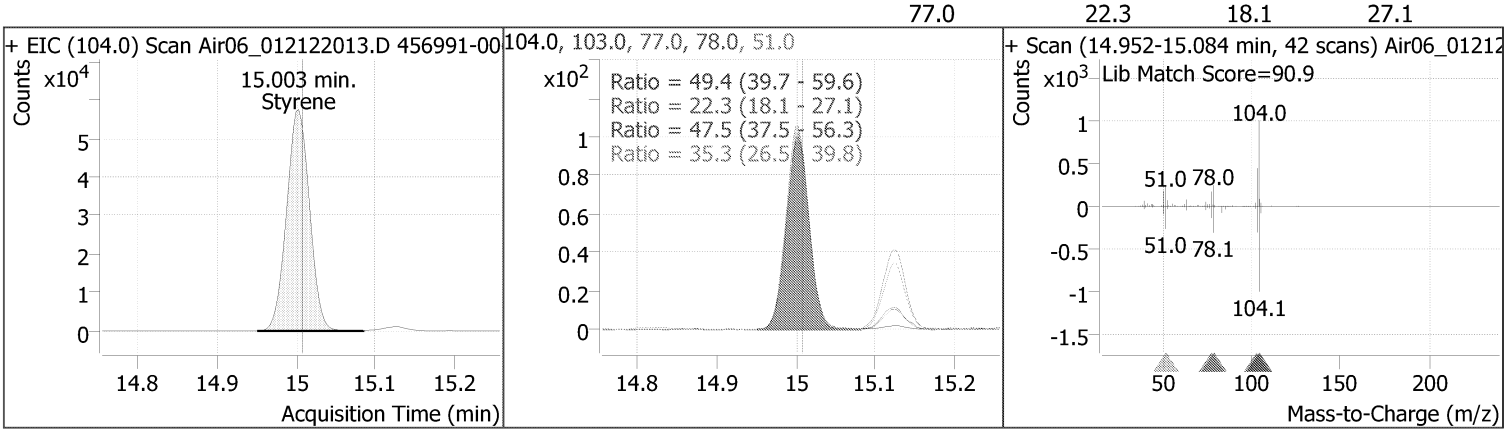

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 1.0182 | 14.61 | -0.02 | 179019 | 106.0 | 47.4 | 37.4 | 56.0 |
| | | | | | 105.0 | 21.5 | 17.8 | 26.7 |



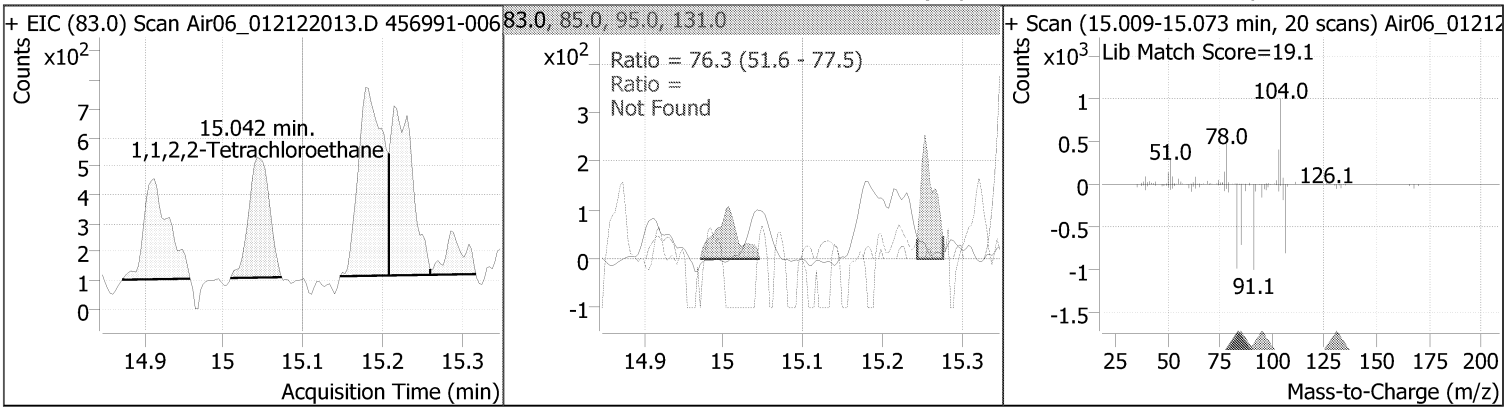

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.0018 | 14.69 | -0.01 | 218 | 171.0 | 40.0 | 41.0 | 61.5 |
| | | | | | 175.0 | 41.8 | 39.2 | 58.9 |
| | | | | | 93.0 | 211.2 | 15.4 | 23.1 |
| | | | | | 91.0 | 82212.8 | 15.2 | 22.8 |
| | | | | | 79.0 | 5861.5 | 15.1 | 22.6 |



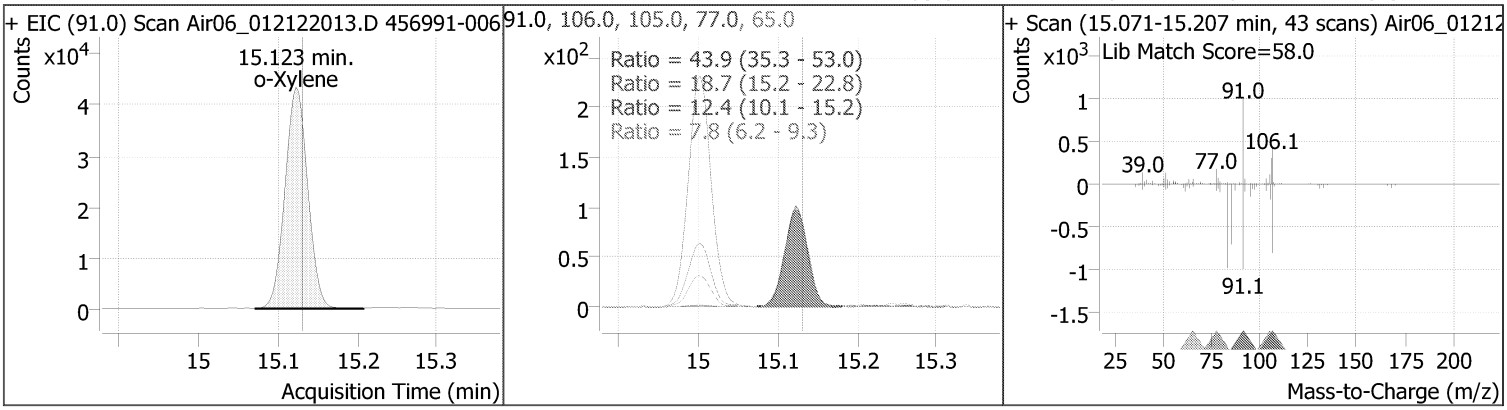
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.8269 | 15.00 | 0.00 | 115212 | 103.0 | 49.4 | 39.7 | 59.6 |
| | | | | | 78.0 | 47.5 | 37.5 | 56.3 |
| | | | | | 51.0 | 35.3 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.3 | 18.1 | 27.1 |



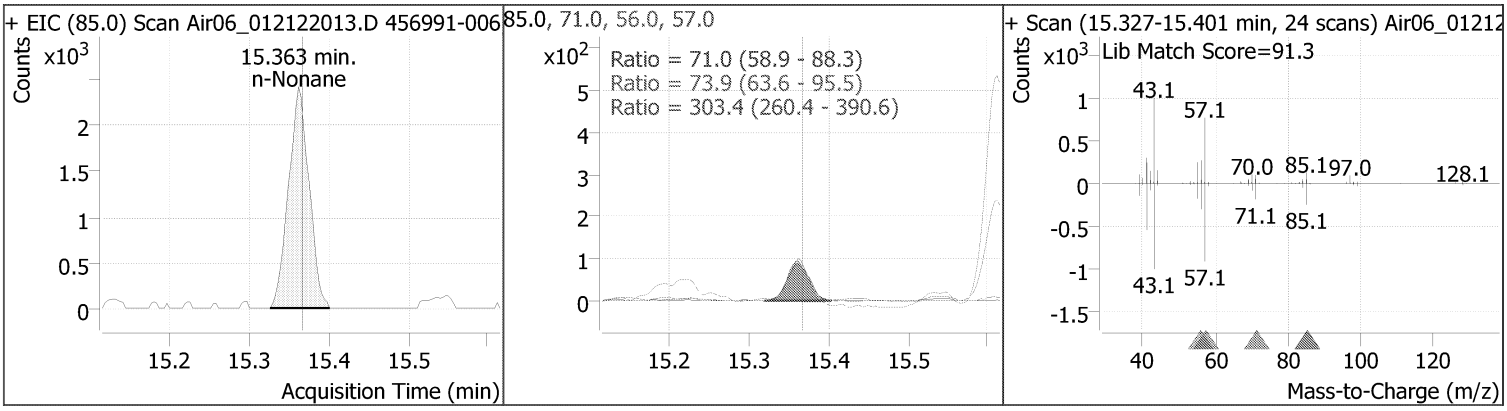

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.0058 | 15.04 | -0.05 | 766 | 85.0 | 76.3 | 51.6 | 77.5 |
| | | | | | 95.0 | | 12.9 | 19.4 |
| | | | | | 131.0 | | 7.8 | 11.7 |



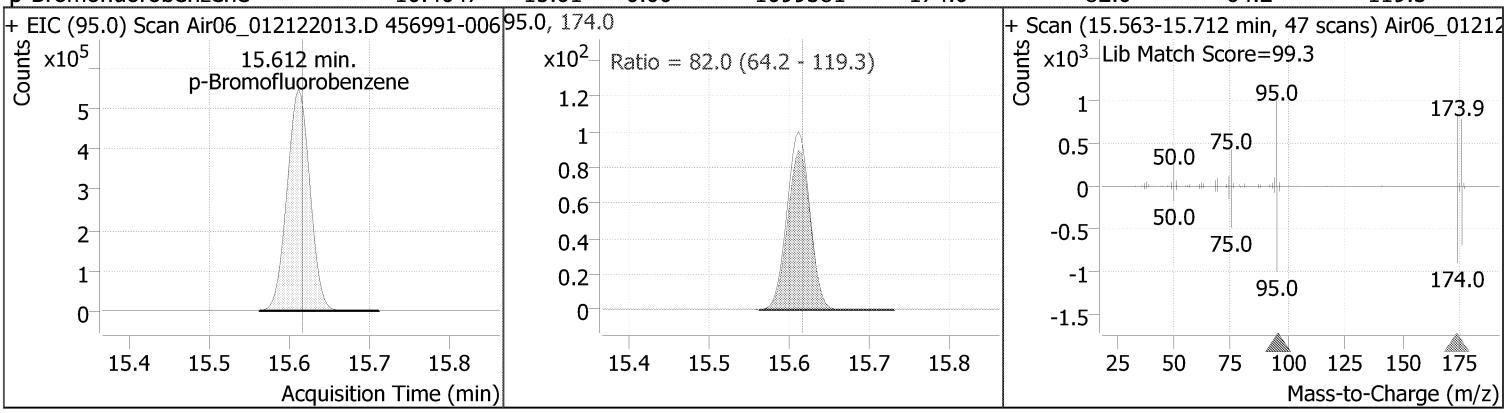

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.4777 | 15.12 | -0.01 | 86348 | 106.0 | 43.9 | 35.3 | 53.0 |
| | | | | | 105.0 | 18.7 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.4 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.8 | 6.2 | 9.3 |



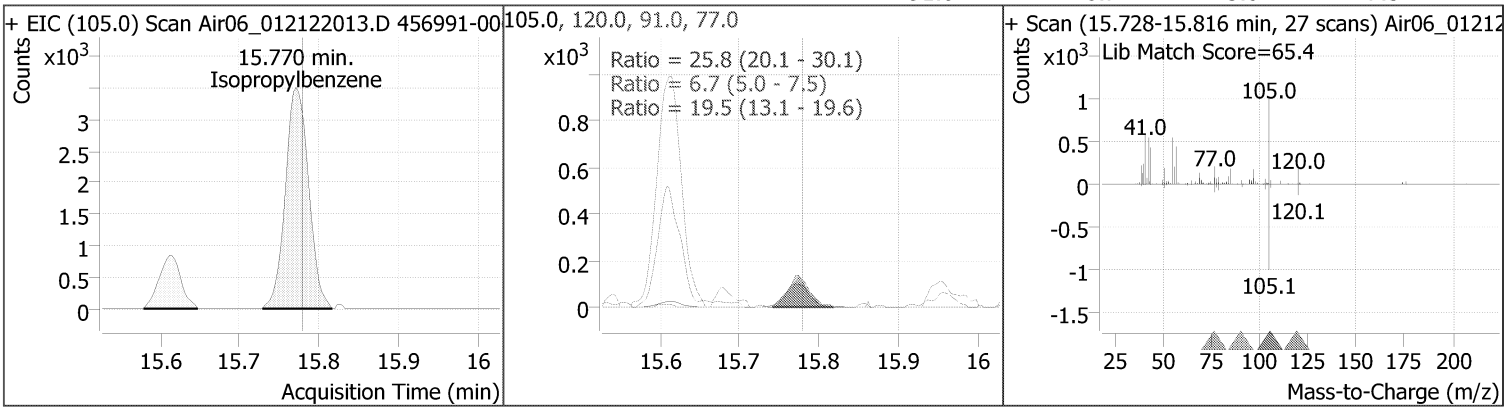
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.1041 | 15.36 | 0.00 | 4348 | 57.0 | 303.4 | 260.4 | 390.6 |
| | | | | | 56.0 | 73.9 | 63.6 | 95.5 |
| | | | | | 71.0 | 71.0 | 58.9 | 88.3 |



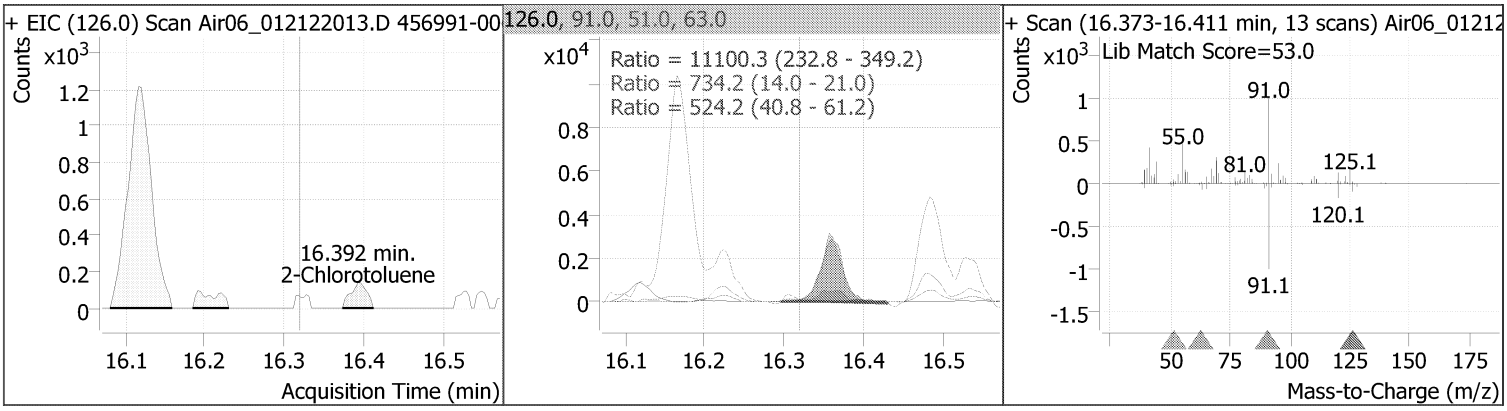

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.4047 | 15.61 | 0.00 | 1099381 | 174.0 | 82.0 | 64.2 | 119.3 |



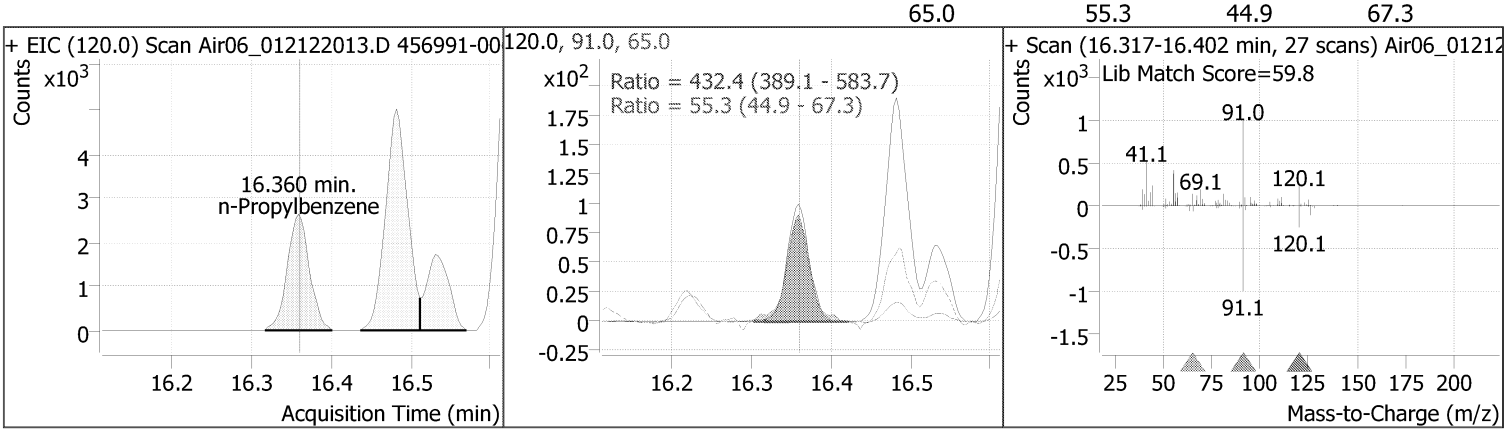

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0288 | 15.77 | -0.01 | 7125 | 120.0 | 25.8 | 20.1 | 30.1 |
| | | | | | 77.0 | 19.5 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.7 | 5.0 | 7.5 |



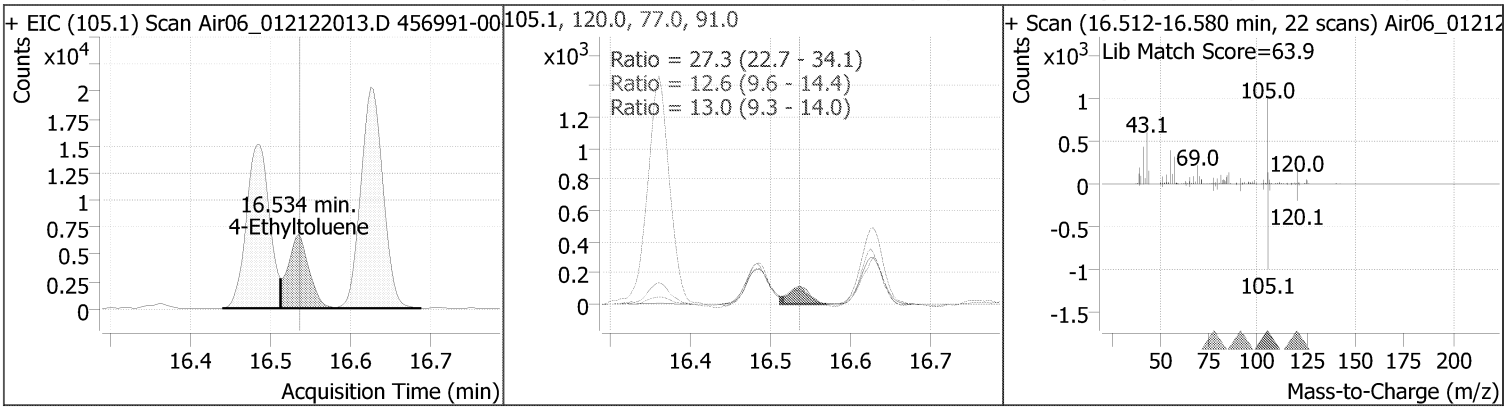
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.0032 | 16.39 | 0.07 | 200 | 91.0 | 11100.3 | 232.8 | 349.2 |
| | | | | | 63.0 | 524.2 | 40.8 | 61.2 |
| | | | | | 51.0 | 734.2 | 14.0 | 21.0 |



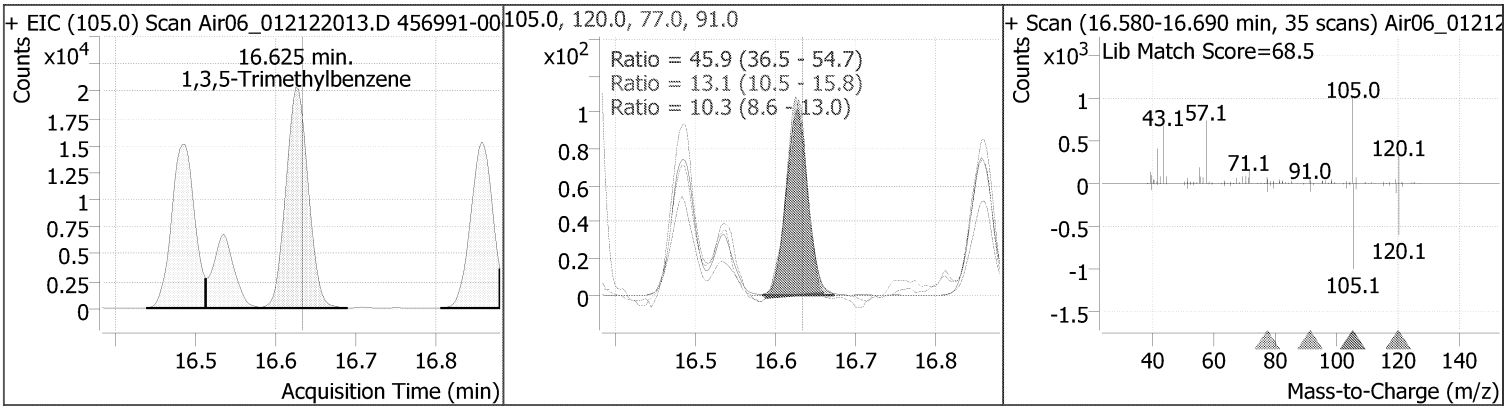

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0736 | 16.36 | 0.00 | 5099 | 91.0 | 432.4 | 389.1 | 583.7 |
| | | | | | 65.0 | 55.3 | 44.9 | 67.3 |



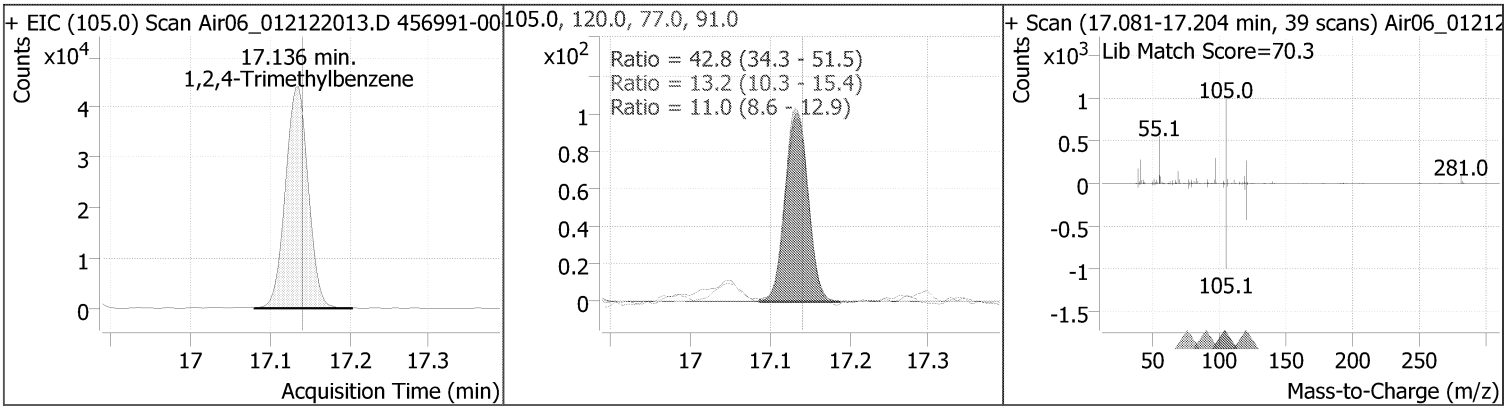

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0508 | 16.53 | 0.00 | 12453 | 120.0 | 27.3 | 22.7 | 34.1 |
| | | | | | 77.0 | 12.6 | 9.6 | 14.4 |
| | | | | | 91.0 | 13.0 | 9.3 | 14.0 |



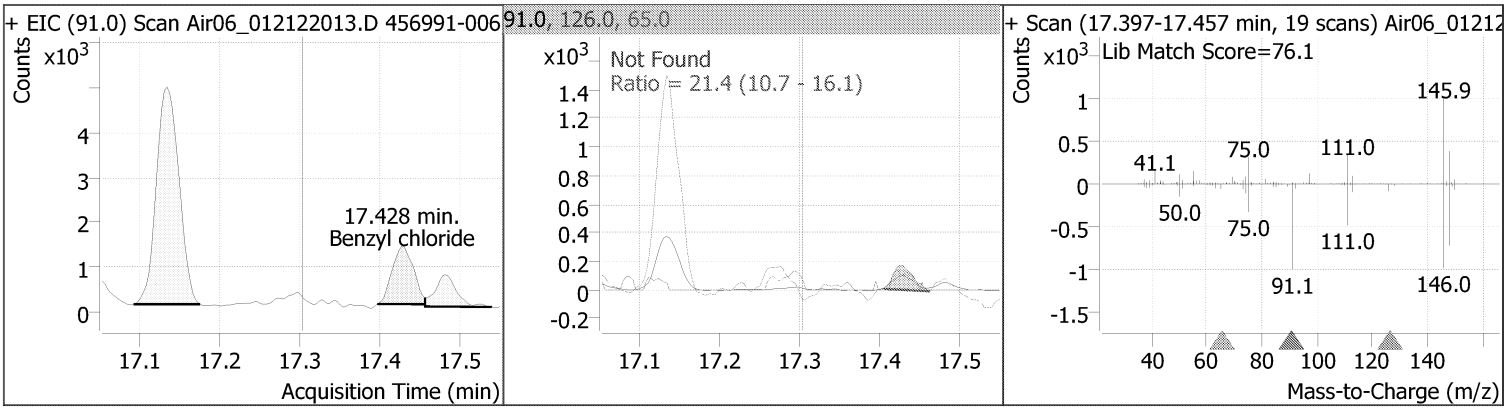
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.1876 | 16.62 | -0.01 | 39821 | 120.0 | 45.9 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.1 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.3 | 8.6 | 13.0 |



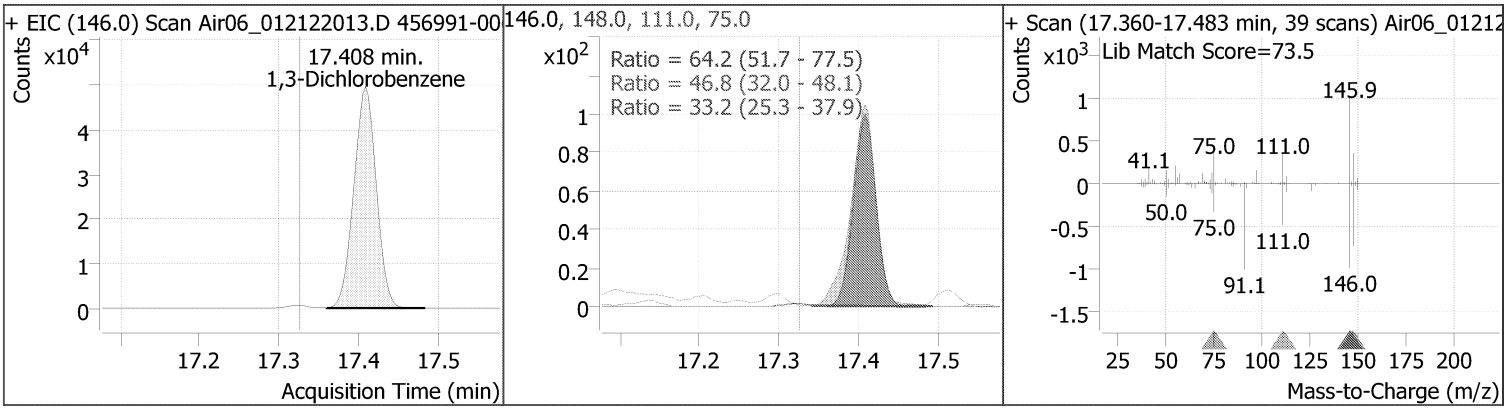

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.4161 | 17.14 | 0.00 | 87728 | 120.0 | 42.8 | 34.3 | 51.5 |
| | | | | | 77.0 | 13.2 | 10.3 | 15.4 |
| | | | | | 91.0 | 11.0 | 8.6 | 12.9 |



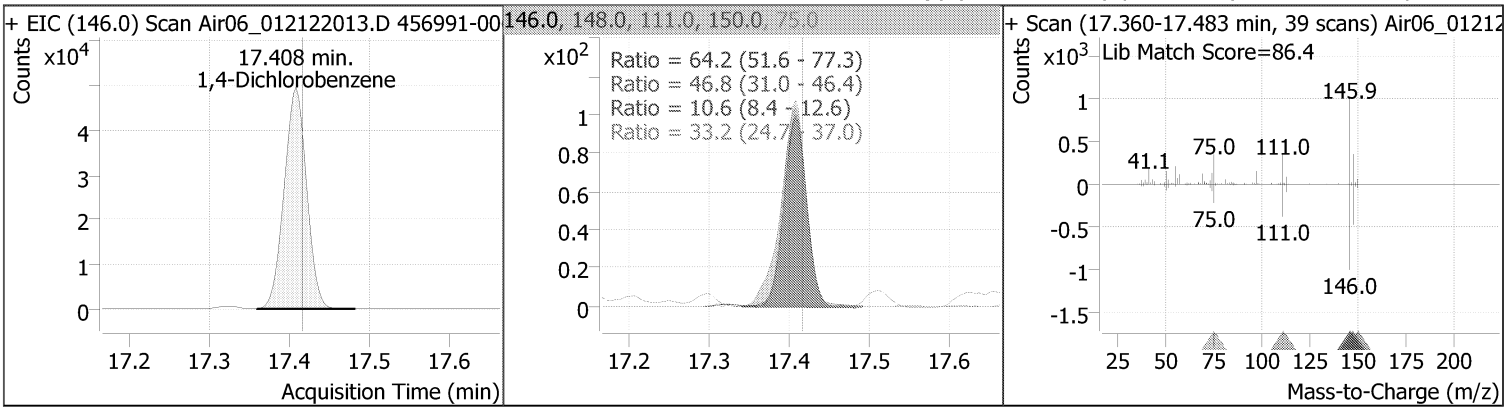

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0131 | 17.43 | 0.13 | 2425 | 126.0 | | 15.5 | 23.2 |
| | | | | | 65.0 | 21.4 | 10.7 | 16.1 |



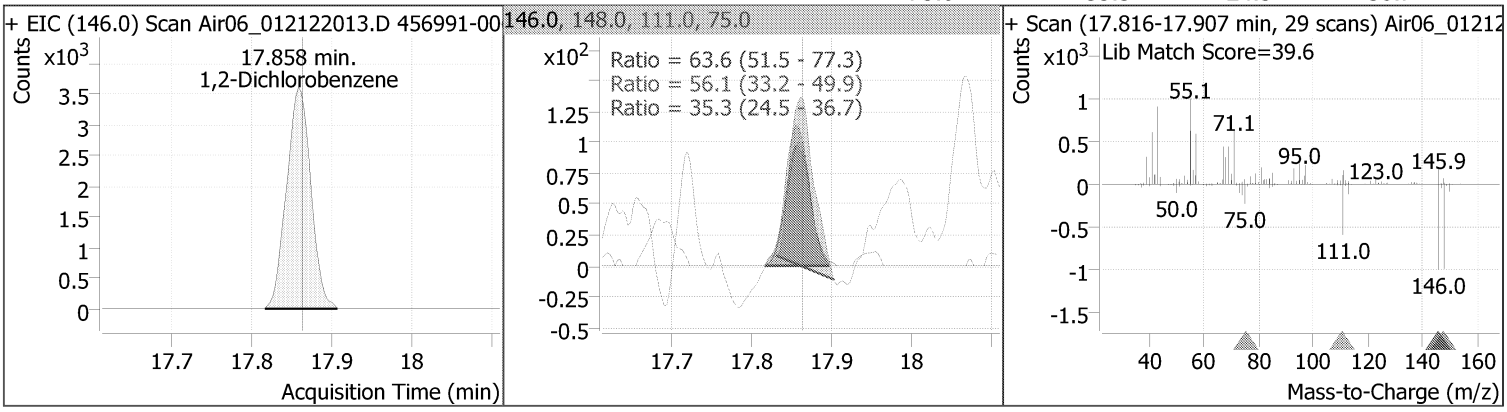
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.6729 | 17.41 | 0.08 | 97306 | 148.0 | 64.2 | 51.7 | 77.5 |
| | | | | | 111.0 | 46.8 | 32.0 | 48.1 |
| | | | | | 75.0 | 33.2 | 25.3 | 37.9 |



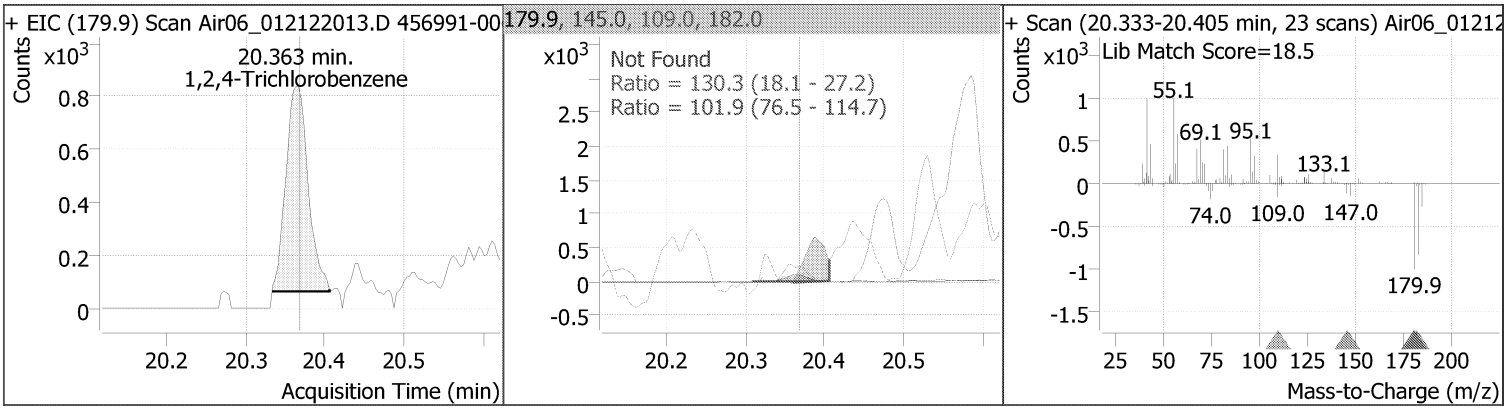

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.6654 | 17.41 | -0.01 | 97306 | 148.0 | 64.2 | 51.6 | 77.3 |
| | | | | | 111.0 | 46.8 | 31.0 | 46.4 |
| | | | | | 75.0 | 33.2 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.6 | 8.4 | 12.6 |



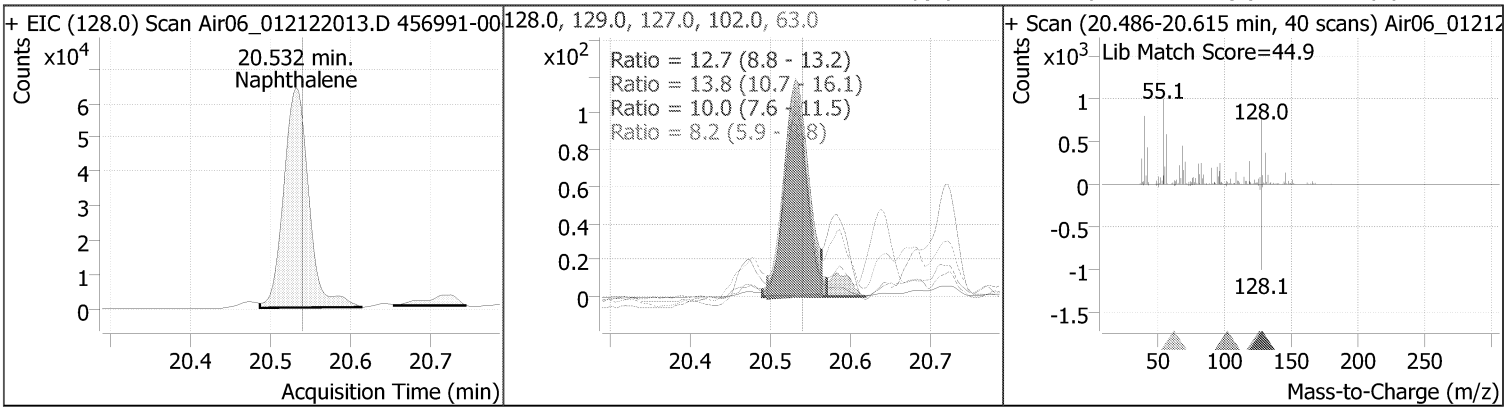

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.0543 | 17.86 | 0.00 | 7658 | 148.0 | 63.6 | 51.5 | 77.3 |
| | | | | | 111.0 | 56.1 | 33.2 | 49.9 |
| | | | | | 75.0 | 35.3 | 24.5 | 36.7 |



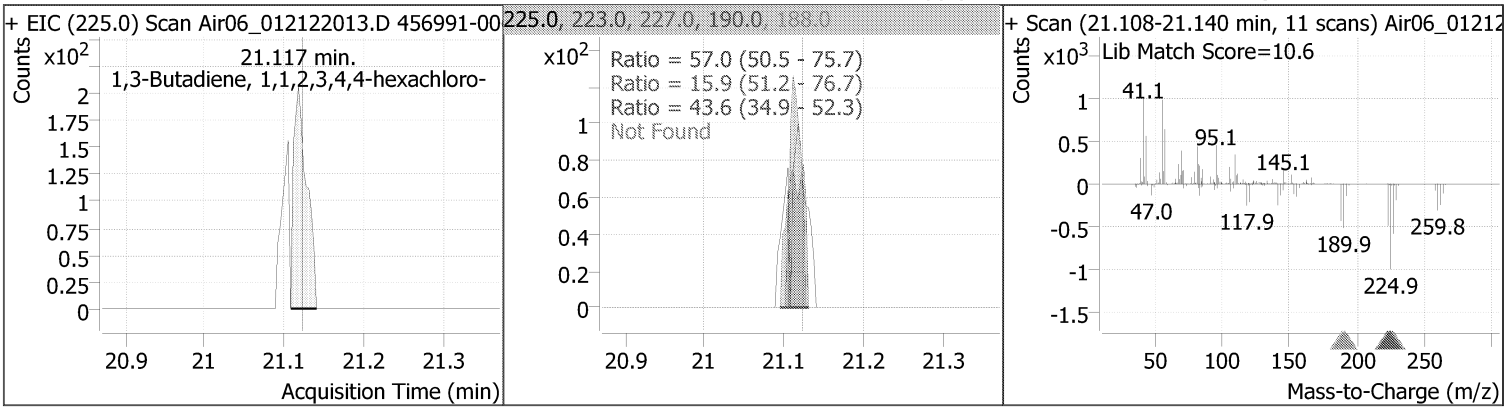
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0130 | 20.36 | -0.01 | 1507 | 182.0 | 101.9 | 76.5 | 114.7 |
| | | | | | 145.0 | | 22.2 | 33.3 |
| | | | | | 109.0 | 130.3 | 18.1 | 27.2 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.5841 | 20.53 | -0.01 | 140518 | 127.0 | 13.8 | 10.7 | 16.1 |
| | | | | | 129.0 | 12.7 | 8.8 | 13.2 |
| | | | | | 102.0 | 10.0 | 7.6 | 11.5 |
| | | | | | 63.0 | 8.2 | 5.9 | 8.8 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0019 | 21.12 | 0.00 | 236 | 227.0 | 15.9 | 51.2 | 76.7 |
| | | | | | 223.0 | 57.0 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.6 | 34.9 | 52.3 |
| | | | | | 188.0 | | 27.5 | 41.2 |



# Library Search Results - NonTarget Hits with Details

Agilent Technologies

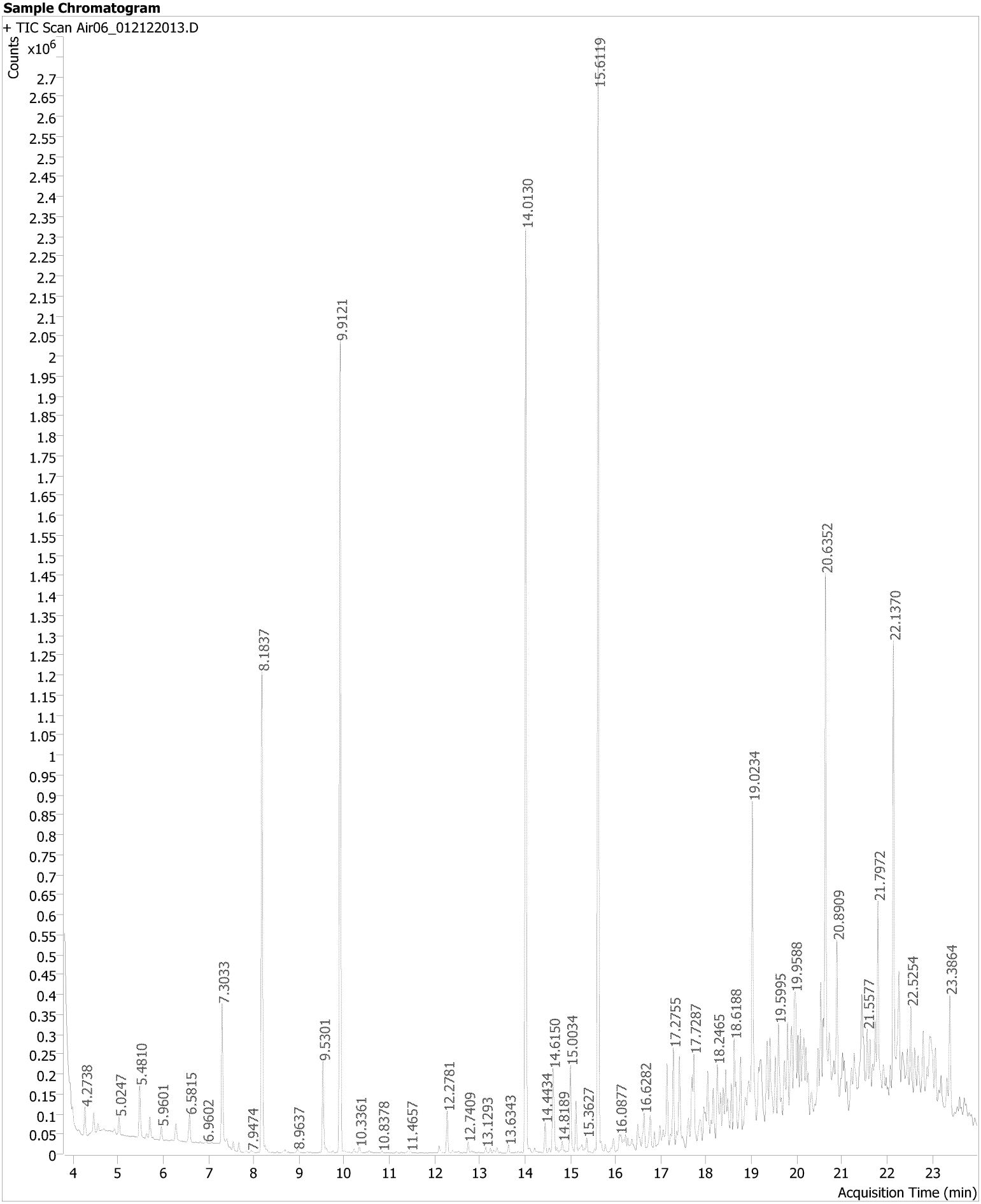
| | | | |
|---|---|---|---|
| **Batch Path** | D:\MassHunter\GCMS\1\data\2022\220121 | | |
| **Analysis File Name** | $2022 Jan 22 0714 TO15_220105.m$.uaf | | |
| **Analyst Name** | 003AIRMS06 | **Analysis Time** | 1/26/2022 11:30:36 AM |
| **File Name** | Air06_012122013.D | **Path Name** | D:\MassHunter\GCMS\1\data\2022\220121 |
| **Sample Name** | 456991-006,282262,2x,PDF:1,C10630 | **Type** | Sample |
| **Acq. Method File** | TO15_Acq_013120_1 | **Acq. Method Path** | D:\MassHunter\GCMS\1\methods\ |
| **Acq. Date-Time** | 1/21/2022 8:39:26 PM | **Acq. Operator** | DJL/LJB/ZNZ |
| **Instrument Name** | Air-MS-06 | **Dil.** | 1 |

| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9986 | Dichlorodifluoromethane | 75-71-8 | CCl2F2 | 104399.3 | 97.7 | 0.4059 |
| 4.2738 | Cyclobutanol | 2919-23-5 | C4H8O | 146582.4 | 88.6 | 0.57 |
| 4.4680 | 1-Propene, 2-methyl- | 115-11-7 | C4H8 | 110531.2 | 99.0 | 0.4298 |
| 4.5586 | Butane | 106-97-8 | C4H10 | 37749.6 | 92.7 | 0.1468 |
| 4.6978 | Trimethylsilyl fluoride | 420-56-4 | C3H9FSi | 11090.9 | 83.1 | 0.04313 |
| 4.9243 | Ethyl Chloride | 75-00-3 | C2H5Cl | 23672.1 | 94.9 | 0.09205 |
| 5.0247 | Dimethyl ether | 115-10-6 | C2H6O | 84614.4 | 85.8 | 0.329 |
| 5.4810 | Acetone | 67-64-1 | C3H6O | 297528.7 | 98.8 | 1.157 |
| 5.6364 | Trichloromonofluoromethane | 75-69-4 | CCl3F | 25743.8 | 96.0 | 0.1001 |
| 5.7076 | Isopropyl Alcohol | 67-63-0 | C3H8O | 116135.1 | 98.8 | 0.4516 |
| 5.7724 | Furan | 110-00-9 | C4H4O | 5518.6 | 74.9 | 0.02146 |
| 5.9601 | Pentane | 109-66-0 | C5H12 | 65523.9 | 96.7 | 0.2548 |
| 6.2837 | 2-Propanol, 2-methyl- | 75-65-0 | C4H10O | 114111.2 | 77.8 | 0.4437 |
| 6.5815 | Carbon disulfide | 75-15-0 | CS2 | 162302.7 | 97.6 | 0.6311 |
| 6.9602 | 1-Propanol | 71-23-8 | C3H8O | 6195.1 | 87.6 | 0.02409 |
| 7.3033 | Silanol, trimethyl- | 1066-40-6 | C3H10OSi | 775324.5 | 99.1 | 3.015 |
| 7.4069 | 3-Buten-2-ol, 3-methyl- | 10473-14-0 | C5H10O | 29526.9 | 71.4 | 0.1148 |
| 7.5493 | Butanal | 123-72-8 | C4H8O | 34211.8 | 97.5 | 0.133 |
| 7.6723 | 2-Butanone | 78-93-3 | C4H8O | 34468.6 | 97.6 | 0.134 |
| 7.8341 | Pentane, 3-methyl- | 96-14-0 | C6H14 | 10080.1 | 91.1 | 0.0392 |
| 7.9474 | Cyclopropane, 1-ethyl-2-methyl-, cis- | 19781-68-1 | C6H12 | 17164.7 | 92.8 | 0.06674 |
| 8.1837 | Methane, bromochloro- | 74-97-5 | CH2BrCl | 2571744.8 | 98.7 | 10 |
| 8.2517 | n-Hexane | 110-54-3 | C6H14 | 37765.4 | 78.5 | 0.1468 |
| 8.3002 | Trichloromethane | 67-66-3 | CHCl3 | 17236.1 | 90.5 | 0.06702 |
| 8.6562 | 1-Propanol, 2-methyl- | 78-83-1 | C4H10O | 7495.5 | 90.2 | 0.02915 |
| 8.6951 | Tetrahydrofuran | 109-99-9 | C4H8O | 17541.8 | 90.1 | 0.06821 |
| 8.9637 | Ethane, 1,2-dichloro- | 107-06-2 | C2H4Cl2 | 26309.6 | 89.3 | 0.1023 |
| 9.1838 | Butanal, 3-methyl- | 590-86-3 | C5H10O | 5707.9 | 88.5 | 0.01374 |
| 9.5301 | 1-Butanol | 71-36-3 | C4H10O | 497946.0 | 99.2 | 1.198 |
| 9.6078 | Benzene | 71-43-2 | C6H6 | 31591.3 | 97.0 | 0.07603 |
| 9.7502 | Carbon Tetrachloride | 56-23-5 | CCl4 | 11637.3 | 93.3 | 0.02801 |
| 9.9121 | Benzene, 1,4-difluoro- | 540-36-3 | C6H4F2 | 4155162.4 | 99.5 | 10 |
| 10.0092 | 2-Pentanone | 107-87-9 | C5H10O | 24894.2 | 85.7 | 0.05991 |
| 10.2196 | Pentanal | 110-62-3 | C5H10O | 23895.5 | 93.8 | 0.05751 |
| 10.3361 | Benzene, 1,3-difluoro- | 372-18-9 | C6H4F2 | 35290.6 | 97.8 | 0.08493 |
| 10.5529 | Trichloroethylene | 79-01-6 | C2HCl3 | 12971.3 | 89.7 | 0.03122 |
| 10.8378 | Heptane | 142-82-5 | C7H16 | 8670.1 | 93.7 | 0.02087 |
| 11.1517 | 1-Pentene, 2,4,4-trimethyl- | 107-39-1 | C8H16 | 5910.4 | 90.9 | 0.01422 |
| 11.4042 | Methyl Isobutyl Ketone | 108-10-1 | C6H12O | 10518.1 | 87.4 | 0.02531 |
| 11.4657 | Cyclohexane, methyl- | 108-87-2 | C7H14 | 10441.4 | 90.9 | 0.02513 |
| 12.1001 | 1-Pentanol | 71-41-0 | C5H12O | 41748.8 | 98.0 | 0.08736 |
| 12.2781 | Toluene | 108-88-3 | C7H8 | 214667.6 | 99.4 | 0.4492 |
| 12.4011 | Cyclopentanone | 120-92-3 | C5H8O | 14194.6 | 91.9 | 0.0297 |
| 12.5306 | 2-Hexanone | 591-78-6 | C6H12O | 11016.2 | 88.0 | 0.02305 |
| 12.7409 | Hexanal | 66-25-1 | C6H12O | 55890.0 | 96.8 | 0.117 |
| 12.8251 | Cyclohexane, 1,3-dimethyl- | 591-21-9 | C8H16 | 13091.2 | 86.7 | 0.02739 |
| 13.1293 | Acetic acid, butyl ester | 123-86-4 | C6H12O2 | 29250.7 | 91.7 | 0.06121 |
| 13.2329 | Octane | 111-65-9 | C8H18 | 22109.5 | 95.1 | 0.04626 |
| 13.3041 | Cyclohexane, 1,2-dimethyl-, trans- | 6876-23-9 | C8H16 | 13874.3 | 95.4 | 0.02903 |
| 13.3753 | Tetrachloroethylene | 127-18-4 | C2Cl4 | 30891.4 | 89.5 | 0.06464 |
| 13.6343 | Cyclotrisiloxane, hexamethyl- | 541-05-9 | C6H18O3Si3 | 41895.2 | 95.5 | 0.08767 |
| 13.8479 | Benzene, 1-chloro-3-fluoro- | 625-98-9 | C6H4ClF | 9739.5 | 88.2 | 0.02038 |
| 14.0130 | Chlorobenzene-d5 | 3114-55-4 | C6D5Cl | 4778910.3 | 95.5 | 10 |
| 14.2104 | Cyclohexane, 1,1,3-trimethyl- | 3073-66-3 | C9H18 | 37474.8 | 94.2 | 0.07842 |
| 14.4434 | Ethylbenzene | 100-41-4 | C8H10 | 153819.1 | 98.0 | 0.3219 |
| 14.5308 | Cyclohexane, 1,2,4-trimethyl- | 2234-75-5 | C9H18 | 29295.4 | 89.9 | 0.0613 |
| 14.6150 | Benzene, 1,3-dimethyl- | 108-38-3 | C8H10 | 573769.3 | 99.7 | 1.201 |
| 14.7024 | 3-Heptanone | 106-35-4 | C7H14O | 28310.9 | 83.1 | 0.05924 |
| 14.7703 | 2-Heptanone | 110-43-0 | C7H14O | 14593.4 | 81.8 | 0.03054 |

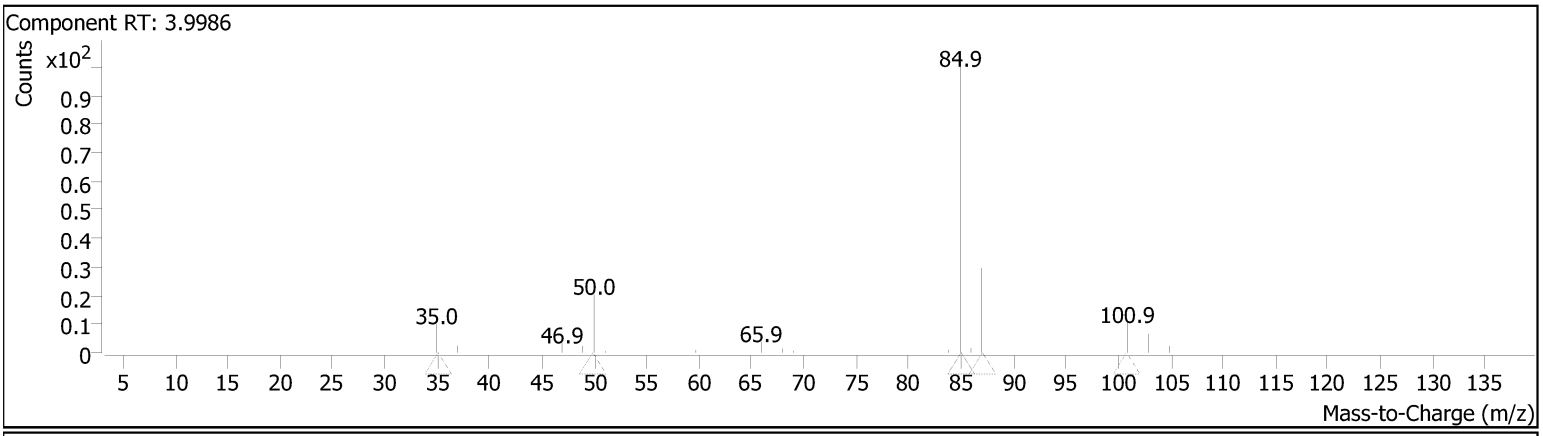
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.8189 | Cyclohexanone | 108-94-1 | C6H10O | 67019.3 | 86.2 | 0.1402 |
| 15.0034 | Styrene | 100-42-5 | C8H8 | 493952.6 | 99.1 | 1.034 |
| 15.1231 | o-Xylene | 95-47-6 | C8H10 | 267506.1 | 99.0 | 0.5598 |
| 15.2591 | Cyclohexane, 1-ethyl-4-methyl-, trans- | 6236-88-0 | C9H18 | 94955.9 | 92.3 | 0.1987 |
| 15.3206 | Cyclohexane, 1-ethyl-4-methyl-, cis- | 4926-78-7 | C9H18 | 23032.4 | 86.4 | 0.0482 |
| 15.3627 | Nonane | 111-84-2 | C9H20 | 78191.2 | 96.6 | 0.1636 |
| 15.4339 | 1,2-Dipropylcyclopropene | 10306-92-0 | C9H16 | 8396.7 | 76.1 | 0.01757 |
| 15.5374 | Cyclooctane, 1,2-dimethyl- | 13151-94-5 | C10H20 | 22063.0 | 88.4 | 0.04617 |
| 15.6119 | Benzene, 1-bromo-3-fluoro- | 1073-06-9 | C6H4BrF | 5589752.7 | 98.2 | 11.7 |
| 15.6799 | 2-Hexene, 3,4,4-trimethyl- | 53941-19-8 | C9H18 | 53042.3 | 77.4 | 0.111 |
| 15.7705 | Benzene, (1-methylethyl)- | 98-82-8 | C9H12 | 33103.9 | 76.4 | 0.06927 |
| 15.8999 | Pentane, 2,2,3,3-tetramethyl- | 7154-79-2 | C9H20 | 18137.4 | 89.2 | 0.03795 |
| 15.9517 | Cyclohexane, 1-propenyl- | 5364-83-0 | C9H16 | 79608.0 | 91.3 | 0.1666 |
| 16.0877 | Nonane, 3-methyl- | 5911-04-6 | C10H22 | 71259.0 | 91.4 | 0.1491 |
| 16.1168 | Cyclohexane, propyl- | 1678-92-8 | C9H18 | 74874.2 | 83.4 | 0.1567 |
| 16.1654 | Benzaldehyde | 100-52-7 | C7H6O | 43599.4 | 88.5 | 0.09123 |
| 16.2171 | 3,5-Methanocyclopentapyrazole, 3,3a,4,5,6,6a-hexahydro-3a,4,4-trimethyl- | 87143-58-6 | C10H16N2 | 70002.7 | 77.9 | 0.1465 |
| 16.2689 | Heptane, 3-ethyl-2-methyl- | 14676-29-0 | C10H22 | 32749.8 | 92.2 | 0.06853 |
| 16.3596 | Benzene, propyl- | 103-65-1 | C9H12 | 21422.3 | 95.3 | 0.04483 |
| 16.4890 | Benzene, 1-ethyl-2-methyl- | 611-14-3 | C9H12 | 83875.8 | 75.7 | 0.1755 |
| 16.5279 | Benzene, 1-ethyl-4-methyl- | 622-96-8 | C9H12 | 14704.5 | 84.1 | 0.03077 |
| 16.6282 | Benzene, 1,2,3-trimethyl- | 526-73-8 | C9H12 | 211854.1 | 88.7 | 0.4433 |
| 16.7641 | Cyclohexane, 1,1,2,3-tetramethyl- | 6783-92-2 | C10H20 | 208438.8 | 90.4 | 0.4362 |
| 16.8580 | Benzene, 1-ethyl-2-methyl- | 611-14-3 | C9H12 | 63164.9 | 92.1 | 0.1322 |
| 16.9810 | Dodecanal | 112-54-9 | C12H24O | 91327.0 | 85.7 | 0.1911 |
| 17.0522 | m-Menthane, (1S,3R)-(+)- | 13837-66-6 | C10H20 | 80067.3 | 79.1 | 0.1675 |
| 17.1364 | Benzene, 1,2,3-trimethyl- | 526-73-8 | C9H12 | 430189.7 | 84.3 | 0.9002 |
| 17.2140 | Cyclopentane, 1-methyl-3-(2-methylpropyl)- | 29053-04-1 | C10H20 | 28403.9 | 91.6 | 0.05944 |
| 17.2755 | Decane | 124-18-5 | C10H22 | 445409.6 | 96.8 | 0.932 |
| 17.3500 | Heptane, 2,2,4,6,6-pentamethyl- | 13475-82-6 | C12H26 | 34256.3 | 86.6 | 0.07168 |
| 17.4082 | Benzene, 1,2-dichloro- | 95-50-1 | C6H4Cl2 | 450254.0 | 97.4 | 0.9422 |
| 17.4795 | Benzene, (1-methylpropyl)- | 135-98-8 | C10H14 | 3330.7 | 73.1 | 0.00697 |
| 17.6089 | Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | C10H14 | 99295.5 | 81.8 | 0.2078 |
| 17.6834 | Mesitylene | 108-67-8 | C9H12 | 296645.5 | 89.4 | 0.6207 |
| 17.7287 | Nonane, 2,6-dimethyl- | 17302-28-2 | C11H24 | 422733.9 | 97.0 | 0.8846 |
| 17.8743 | Cyclohexaneethanol, 4-methyl-.beta.-methylene-, trans- | 15714-12-2 | C10H18O | 173439.2 | 77.7 | 0.3629 |
| 17.9488 | Decyl isobutyl carbonate | 959226-07-4 | C15H30O3 | 117899.9 | 76.6 | 0.2467 |
| 18.0362 | Cyclohexane, butyl- | 1678-93-9 | C10H20 | 321868.8 | 82.5 | 0.6735 |
| 18.1074 | trans-p-mentha-1(7),8-dien-2-ol | 21391-84-4 | C10H16O | 36985.1 | 75.2 | 0.07739 |
| 18.1559 | Benzene, 1-methyl-2-propyl- | 1074-17-5 | C10H14 | 199458.8 | 83.1 | 0.4174 |
| 18.2465 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 356505.3 | 92.7 | 0.746 |
| 18.3178 | Decane, 5-methyl- | 13151-35-4 | C11H24 | 173186.0 | 87.4 | 0.3624 |
| 18.3728 | Decane, 4-methyl- | 2847-72-5 | C11H24 | 207419.4 | 84.7 | 0.434 |
| 18.4310 | Decane, 2-methyl- | 6975-98-0 | C11H24 | 267139.8 | 90.3 | 0.559 |
| 18.4764 | Benzene, 1-methyl-4-propyl- | 1074-55-1 | C10H14 | 130789.0 | 95.1 | 0.2737 |
| 18.5540 | Decane, 3-methyl- | 13151-34-3 | C11H24 | 154946.8 | 92.4 | 0.3242 |
| 18.6188 | Cyclohexane, 1-methyl-3-(1-methylethenyl)-, cis- | 24399-15-3 | C10H18 | 419731.6 | 80.0 | 0.8783 |
| 18.6576 | Benzene, 1-ethyl-2,4-dimethyl- | 874-41-9 | C10H14 | 176959.1 | 93.8 | 0.3703 |
| 18.7612 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 345204.8 | 89.1 | 0.7224 |
| 18.8680 | 1H-Indene, 2,3-dihydro-4-methyl- | 824-22-6 | C10H12 | 162182.3 | 75.7 | 0.3394 |
| 18.9424 | Cyclohexane, 1-isopropyl-1-methyl- | 16580-26-0 | C10H20 | 347382.2 | 88.0 | 0.7269 |
| 19.0234 | Undecane | 1120-21-4 | C11H24 | 1930130.4 | 96.2 | 4.039 |
| 19.1593 | p-Cymene | 99-87-6 | C10H14 | 230421.4 | 84.9 | 0.4822 |
| 19.3503 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 480610.4 | 82.7 | 1.006 |
| 19.4118 | Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | C10H14 | 499748.3 | 87.9 | 1.046 |
| 19.5283 | Decane, 3,7-dimethyl- | 17312-54-8 | C12H26 | 284956.1 | 90.5 | 0.5963 |
| 19.5995 | Naphthalene, decahydro-2-methyl- | 2958-76-1 | C11H20 | 529689.1 | 92.9 | 1.108 |
| 19.6610 | Benzene, 1,3-diethyl-5-methyl- | 2050-24-0 | C11H16 | 49542.5 | 86.1 | 0.1037 |
| 19.7289 | Benzene, 1,3-diethyl-5-methyl- | 2050-24-0 | C11H16 | 320484.2 | 87.3 | 0.6706 |
| 19.8002 | Cyclohexane, pentyl- | 4292-92-6 | C11H22 | 470405.9 | 76.5 | 0.9843 |
| 19.8875 | Naphthalene, decahydro-2-methyl- | 2958-76-1 | C11H20 | 621628.6 | 91.8 | 1.301 |
| 19.9588 | 7-Methoxymethyl-2,7-dimethylcyclohepta-1,3,5-triene | 73992-48-0 | C11H16O | 1049692.4 | 79.3 | 2.197 |
| 20.0850 | Undecane, 2-methyl- | 7045-71-8 | C12H26 | 359177.6 | 94.6 | 0.7516 |
| 20.1594 | Benzene, (1,2-dimethylpropyl)- | 4481-30-5 | C11H16 | 562832.4 | 82.9 | 1.178 |
| 20.2047 | Undecane, 3-methyl- | 1002-43-3 | C12H26 | 304846.9 | 91.4 | 0.6379 |
| 20.2533 | Benzene, 1-methyl-4-(1-methylpropyl)- | 1595-16-0 | C11H16 | 126132.6 | 91.5 | 0.2639 |
| 20.3277 | Cyclohexane, 1-methyl-4-(1-methylbutyl)- | 54411-00-6 | C12H24 | 112642.0 | 80.3 | 0.2357 |
| 20.3989 | Benzene, 2,4-dimethyl-1-(1-methylpropyl)- | 1483-60-9 | C12H18 | 4165.2 | 75.0 | 0.008716 |

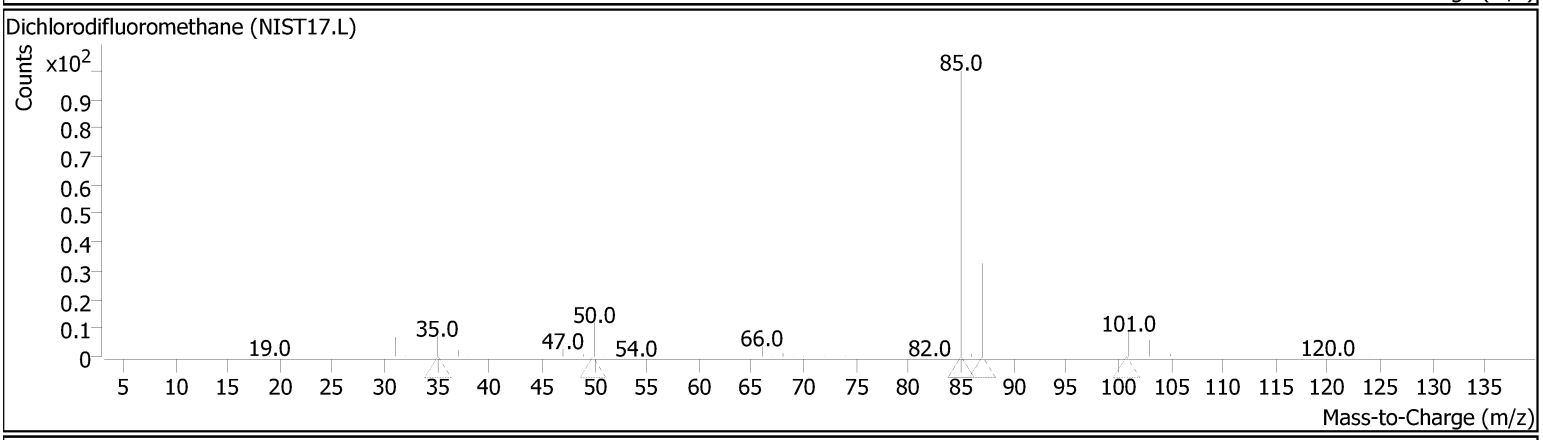
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.4734 | 1,7,7-Trimethyl-2-vinylbicyclo[2.2.1]hept-2-ene | 130930-56-2 | C12H18 | 288422.8 | 75.9 | 0.6035 |
| 20.5316 | Azulene | 275-51-4 | C10H8 | 635148.8 | 70.7 | 1.329 |
| 20.6352 | Dodecane | 112-40-3 | C12H26 | 2833453.1 | 92.9 | 5.929 |
| 20.7226 | 1H-Indene, 2,3-dihydro-1,6-dimethyl- | 17059-48-2 | C11H14 | 523621.1 | 73.4 | 1.096 |
| 20.8909 | Undecane, 2,6-dimethyl- | 17301-23-4 | C13H28 | 902236.1 | 89.9 | 1.888 |
| 21.2114 | trans-2-Dodecen-1-ol, pentafluoropropionate | 1000352-26-1 | C15H23F5O2 | 117503.6 | 73.6 | 0.2459 |
| 21.2728 | Benzene, 1-ethyl-4-(1-methylethyl)- | 4218-48-8 | C11H16 | 209475.5 | 72.4 | 0.4383 |
| 21.5577 | Undecane, 4,8-dimethyl- | 17301-33-6 | C13H28 | 235140.0 | 74.1 | 0.492 |
| 21.6224 | Undecane, 2,10-dimethyl- | 17301-27-8 | C13H28 | 193908.7 | 85.2 | 0.4058 |
| 21.6839 | Benzene, 1,4-dimethyl-2-(2-methylpropyl)- | 55669-88-0 | C12H18 | 66125.5 | 73.3 | 0.1384 |
| 21.7357 | Undecane, 3,9-dimethyl- | 17301-31-4 | C13H28 | 292428.4 | 80.3 | 0.6119 |
| 21.7972 | Tridecane, 7-methyl- | 26730-14-3 | C14H30 | 1069918.2 | 74.8 | 2.239 |
| 21.9137 | Benzene, 2,4-dimethyl-1-(1-methylpropyl)- | 1483-60-9 | C12H18 | 102035.5 | 73.2 | 0.2135 |
| 22.0691 | 9-Methyltricyclo[4.2.1.1(2,5)]deca-3,7-diene-9,10-diol | 78323-73-6 | C11H14O2 | 83651.2 | 74.2 | 0.175 |
| 22.1370 | Tridecane | 629-50-5 | C13H28 | 1835410.6 | 93.2 | 3.841 |
| 22.2600 | Naphthalene, 2-methyl- | 91-57-6 | C11H10 | 509384.8 | 93.1 | 1.066 |
| 22.4478 | 2-Bromo dodecane | 13187-99-0 | C12H25Br | 92436.3 | 77.7 | 0.1934 |
| 22.5254 | Naphthalene, 2-methyl- | 91-57-6 | C11H10 | 263524.7 | 95.3 | 0.5514 |
| 22.6064 | Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethyl- | 13065-07-1 | C12H16 | 150493.9 | 87.7 | 0.3149 |
| 22.6840 | Benzene, (3-methylcyclopentyl)- | 5078-75-1 | C12H16 | 111605.3 | 80.1 | 0.2335 |
| 22.7973 | 1,11-Dodecadiene | 5876-87-9 | C12H22 | 271765.0 | 77.9 | 0.5687 |
| 22.8847 | 1H-Indene, 2,3-dihydro-1,1,4,5-tetramethyl- | 16204-57-2 | C13H18 | 124129.7 | 71.5 | 0.2597 |
| 22.9430 | 13-Oxabicyclo[10.1.0]tridecane | 286-99-7 | C12H22O | 754512.1 | 79.4 | 1.579 |
| 23.0660 | Hexadecane, 1-chloro- | 4860-03-1 | C16H33Cl | 265021.9 | 75.0 | 0.5546 |
| 23.3217 | Phytol | 150-86-7 | C20H40O | 152323.7 | 83.8 | 0.3187 |
| 23.3864 | 1,3-Cyclododecadiene, (E,Z)- | 1129-92-6 | C12H20 | 616572.3 | 88.9 | 1.29 |

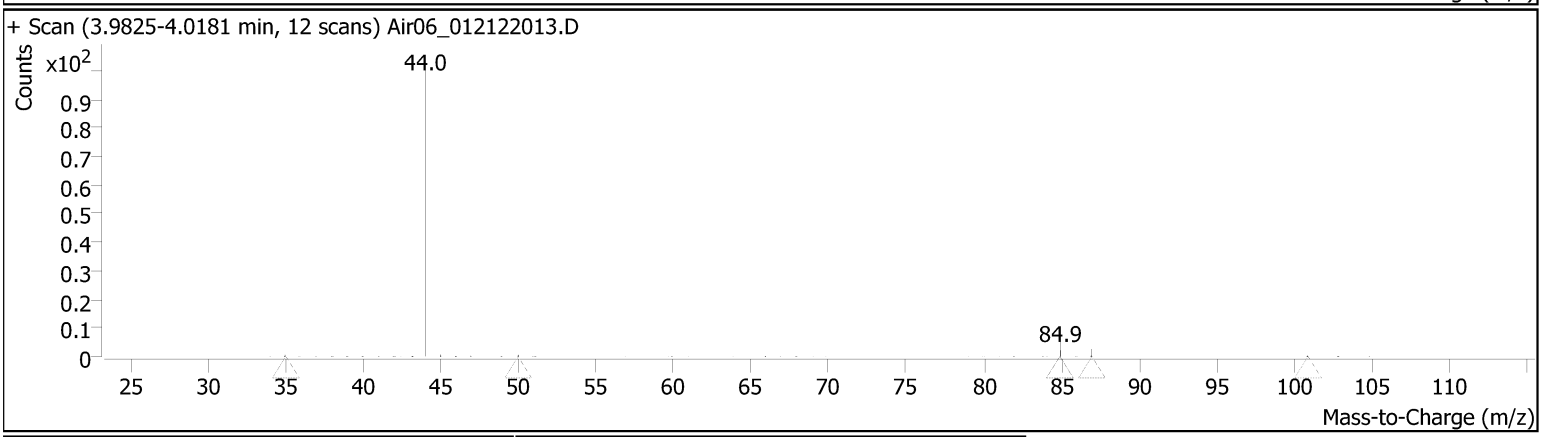
**Sample Chromatogram**

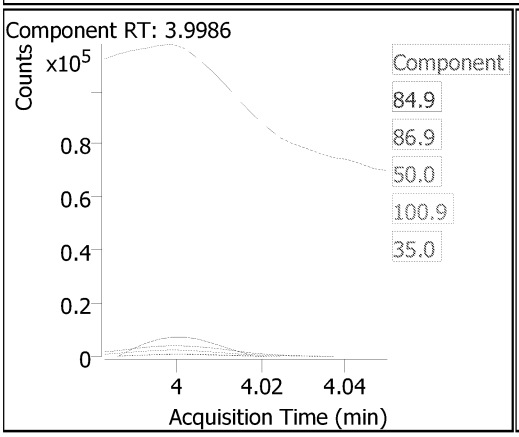


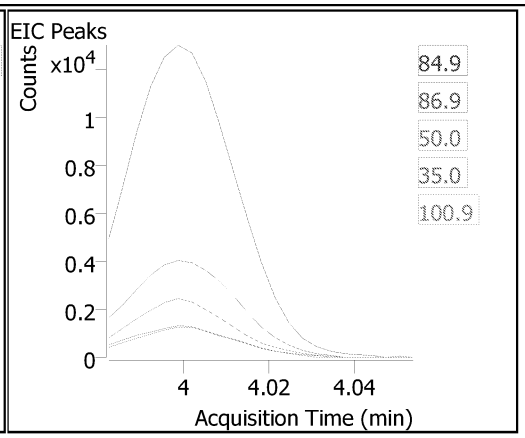
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9986 | Dichlorodifluoromethane | 104399.3 | 97.7 | 75-71-8 | CCl2F2 | 0.4059 |

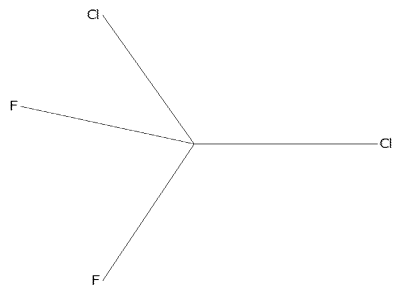


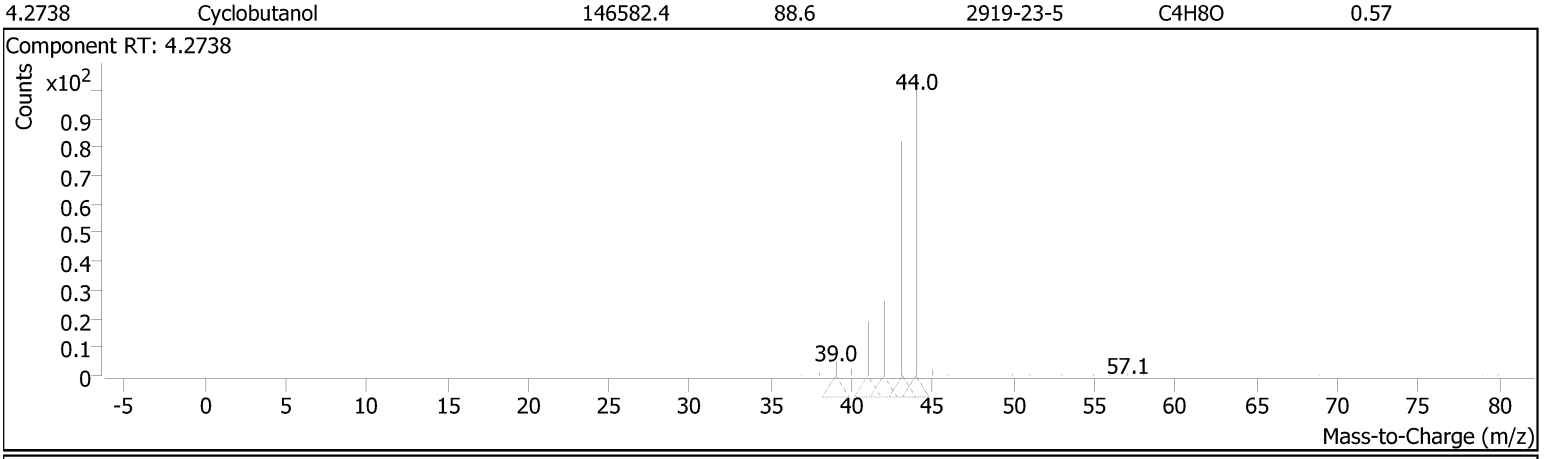



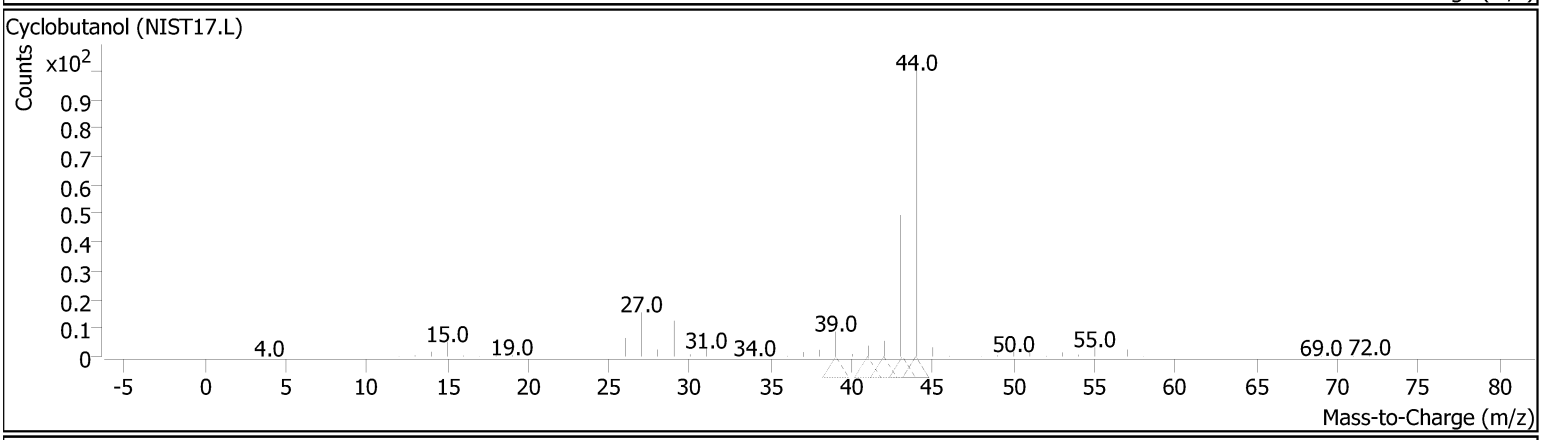



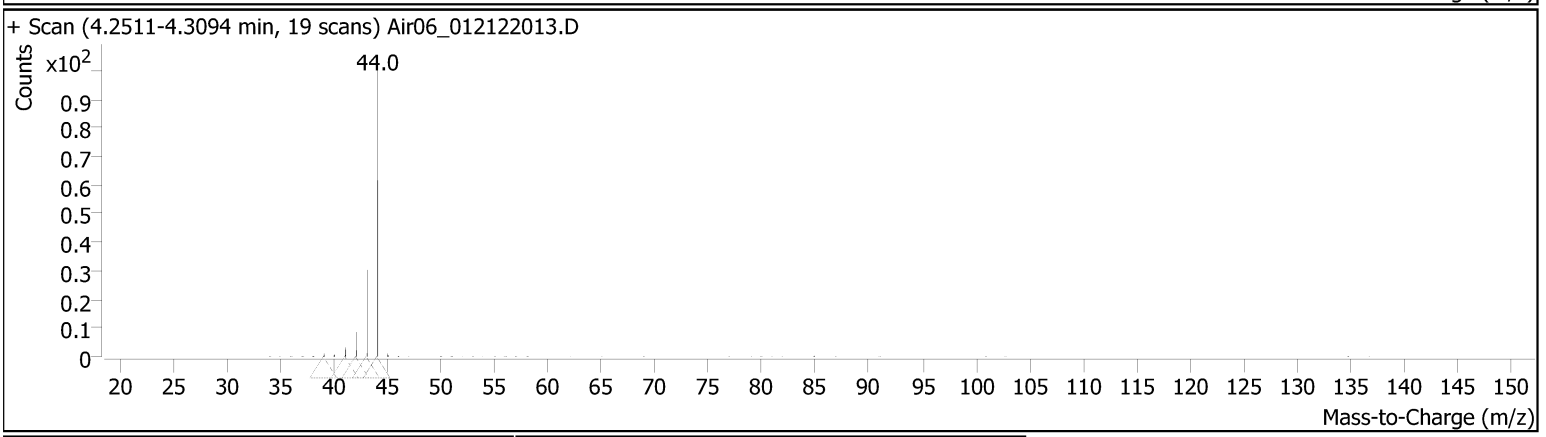
# Library Search Results - NonTarget Hits with Details

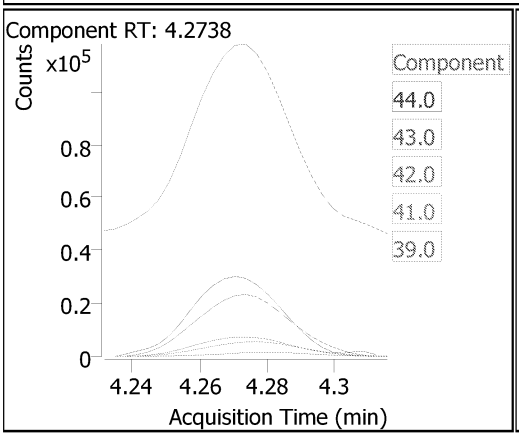
Agilent Technologies

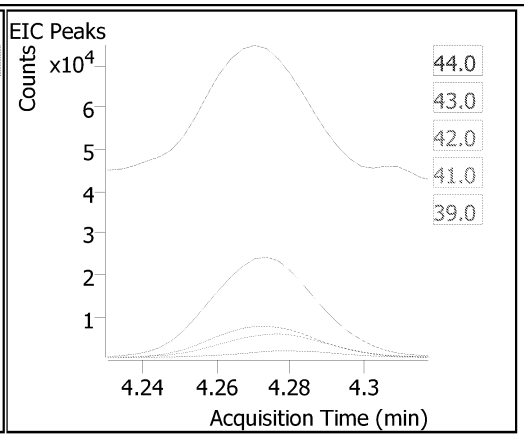
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.2738 | Cyclobutanol | 146582.4 | 88.6 | 2919-23-5 | C4H8O | 0.57 |

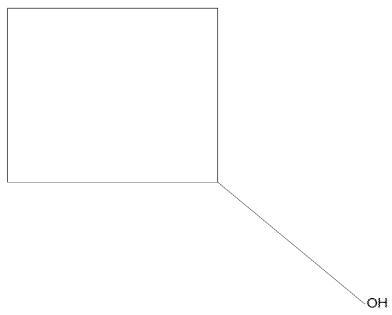


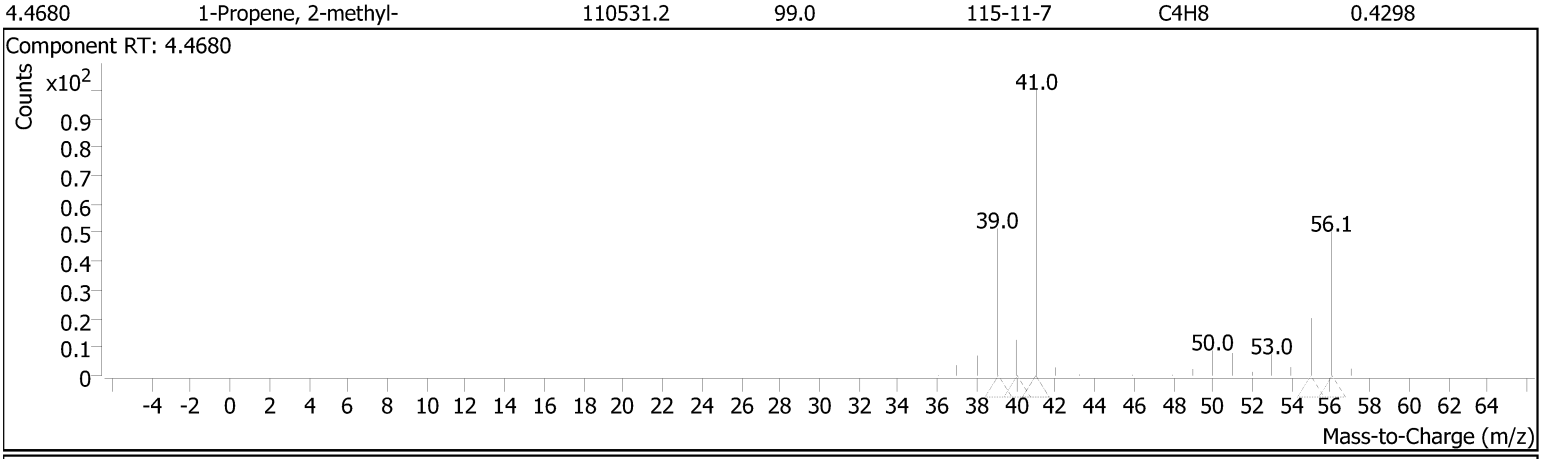



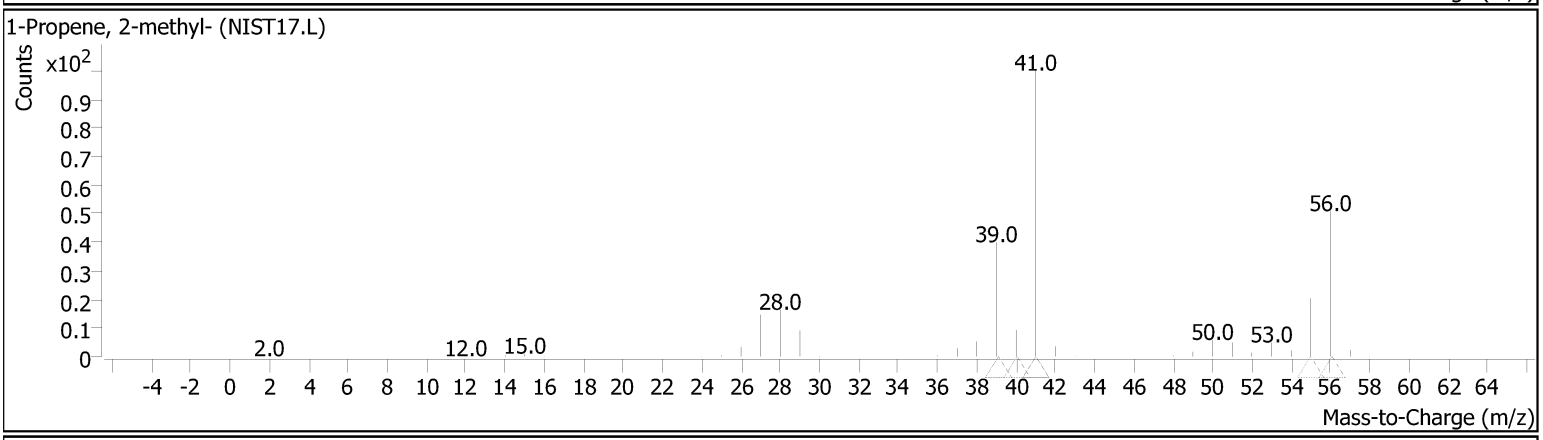



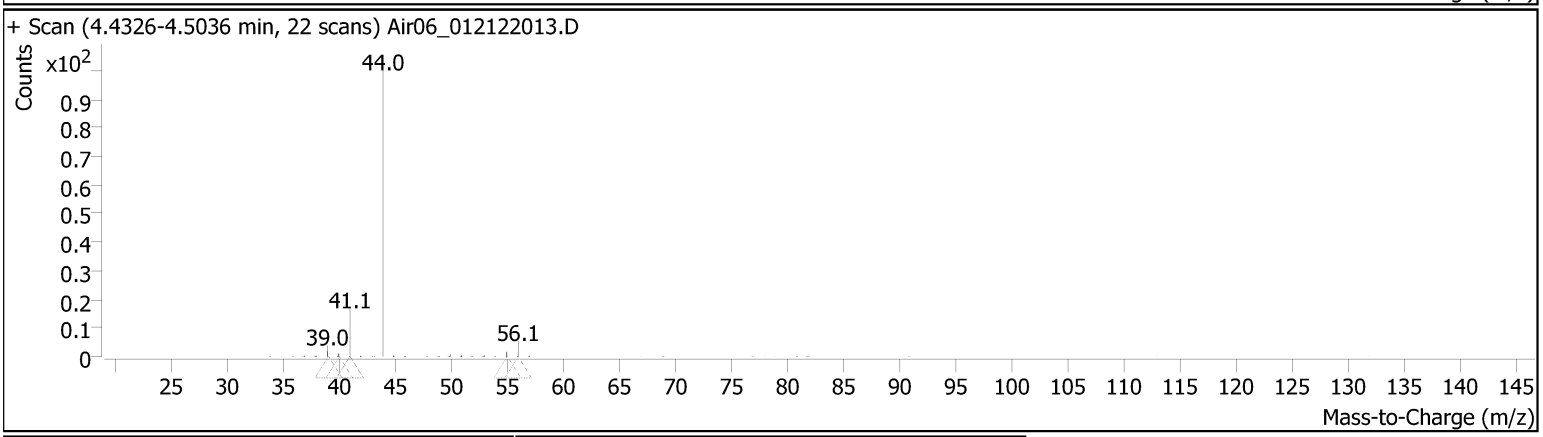



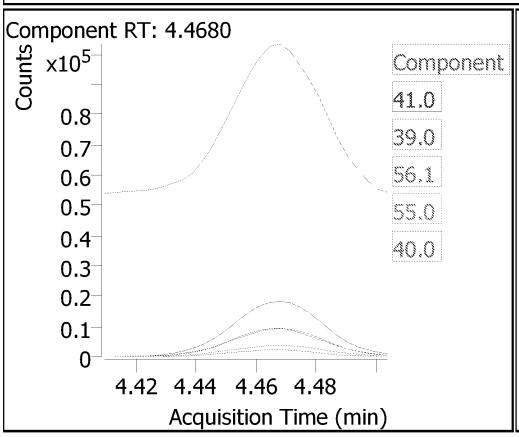



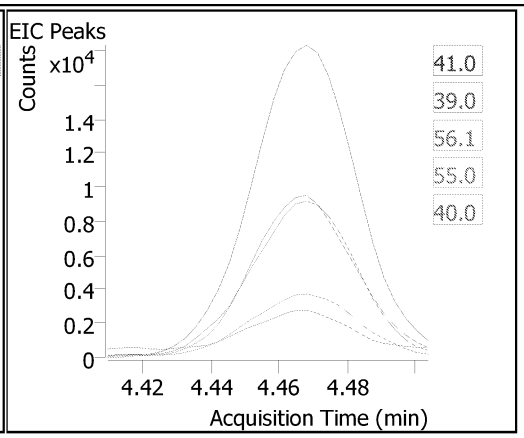
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.4680 | 1-Propene, 2-methyl- | 110531.2 | 99.0 | 115-11-7 | C4H8 | 0.4298 |

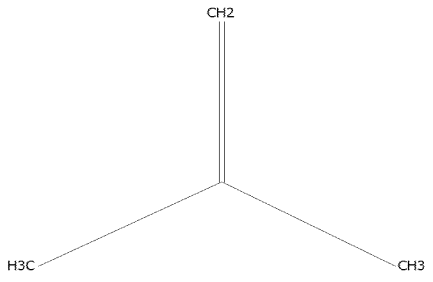


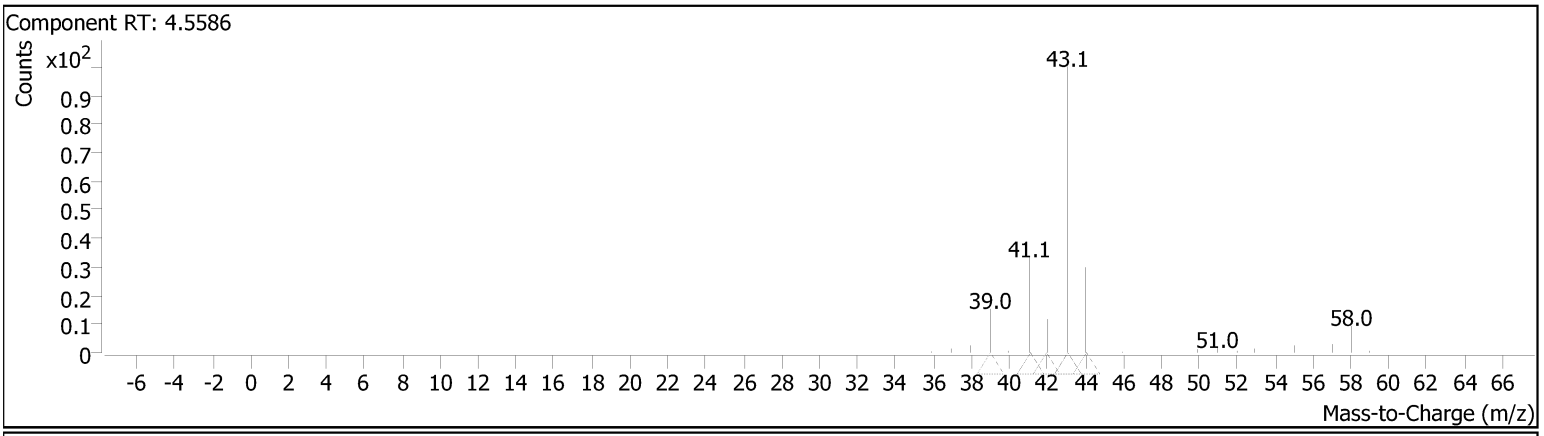



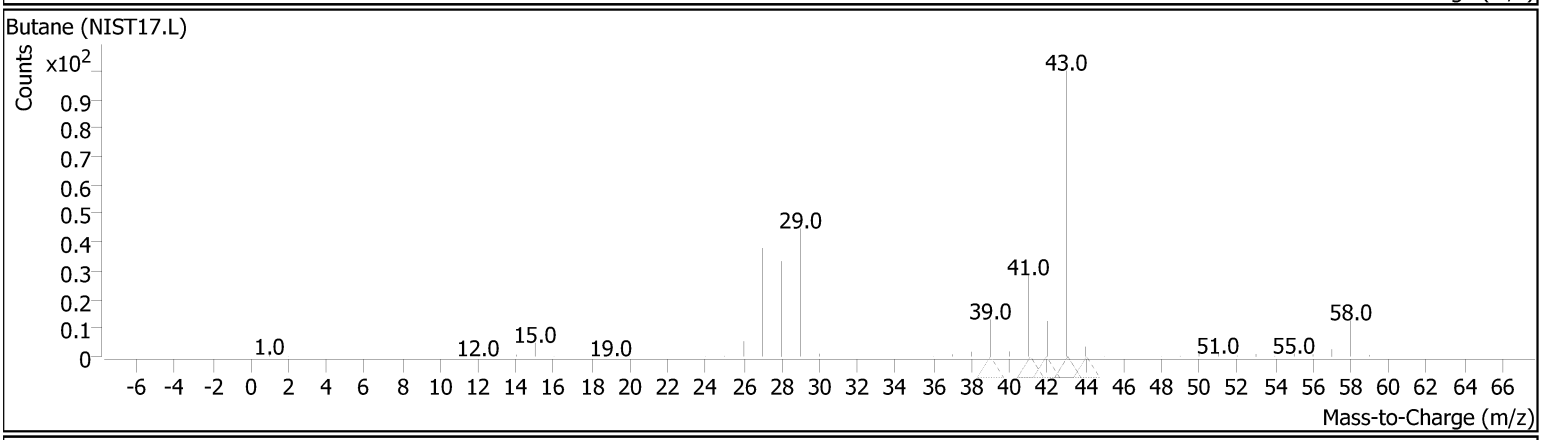



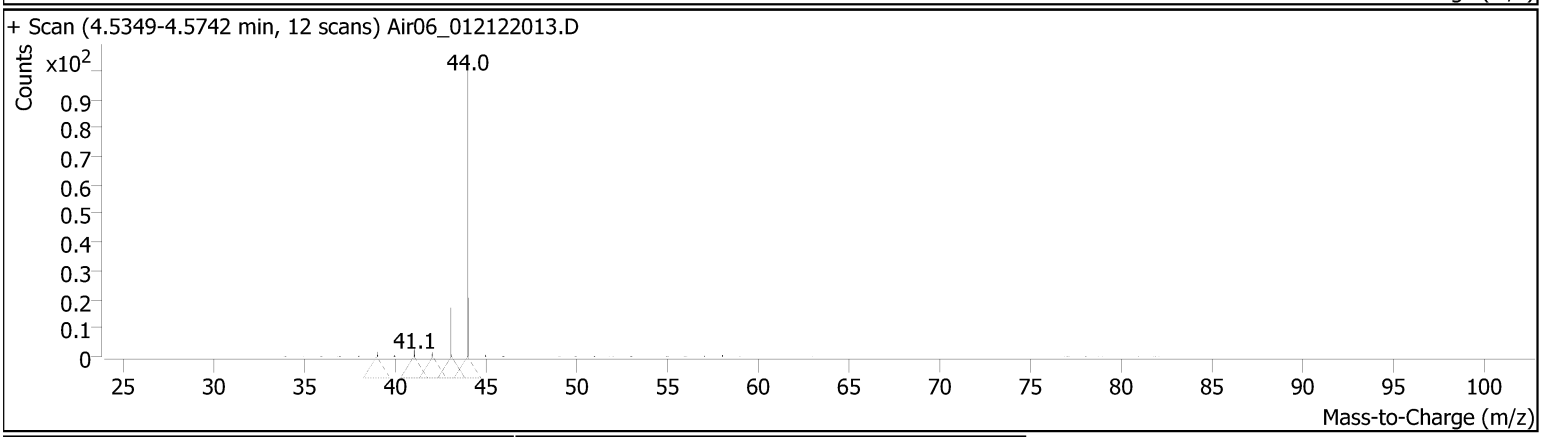



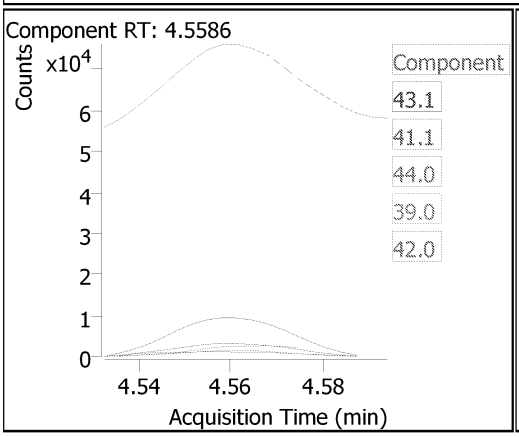



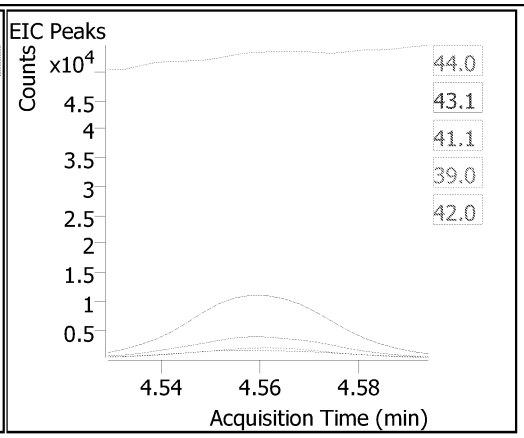
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.5586 | Butane | 37749.6 | 92.7 | 106-97-8 | C4H10 | 0.1468 |



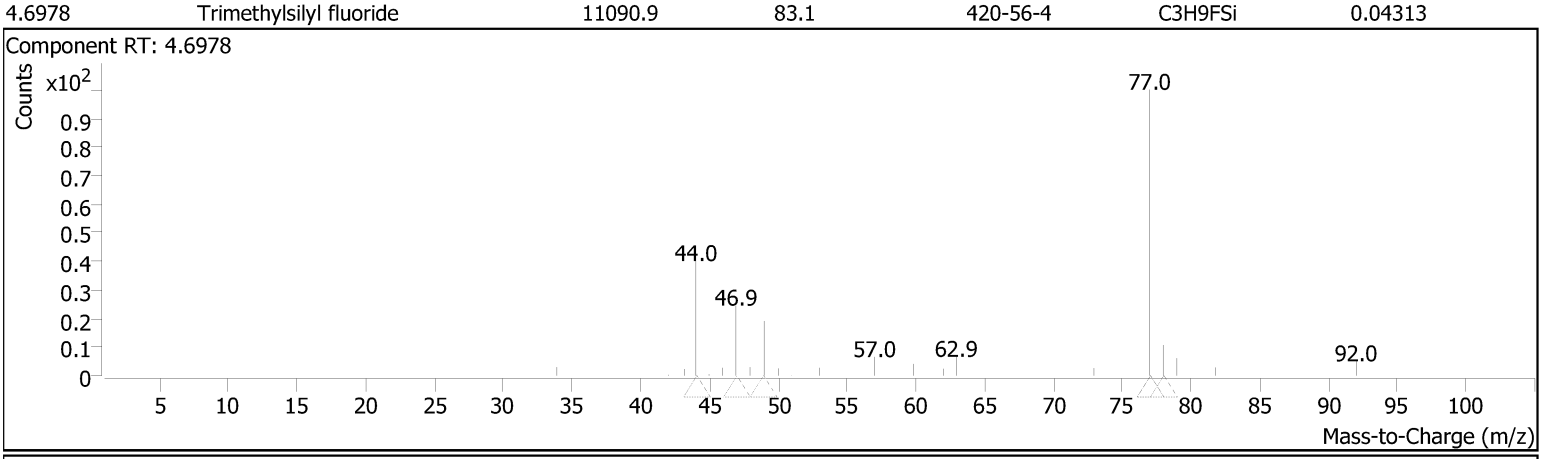



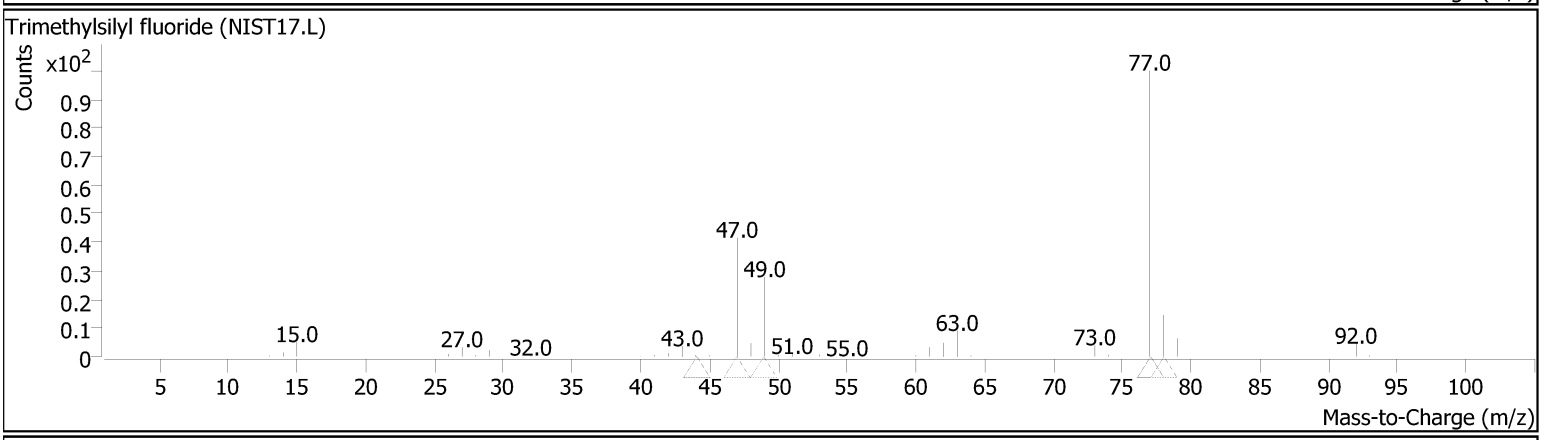



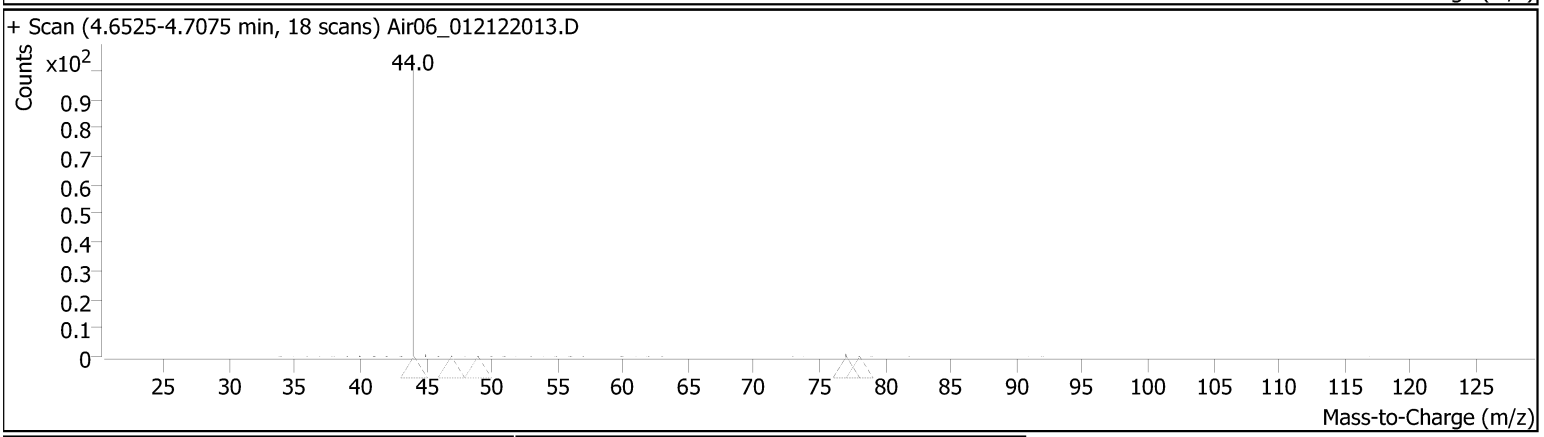



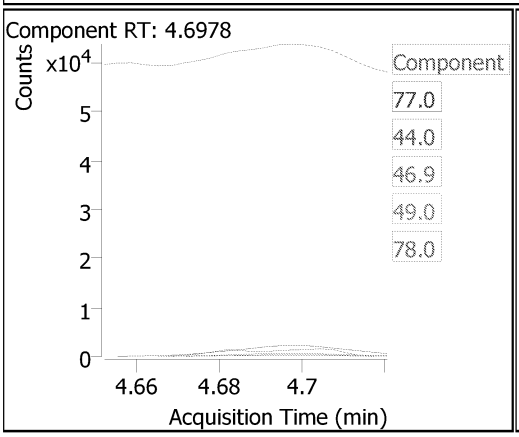


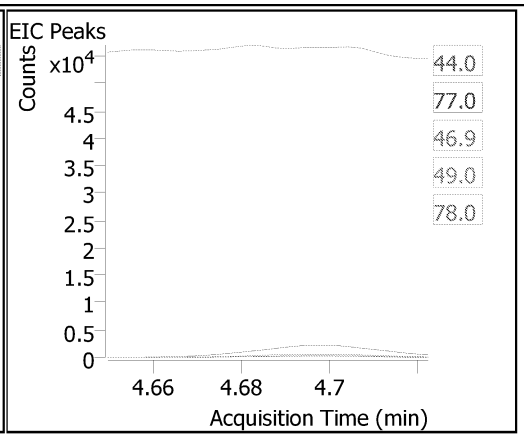

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.6978 | Trimethylsilyl fluoride | 11090.9 | 83.1 | 420-56-4 | C3H9FSi | 0.04313 |

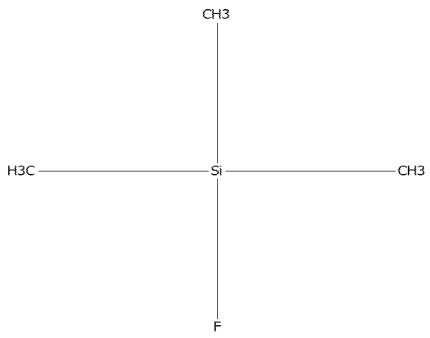


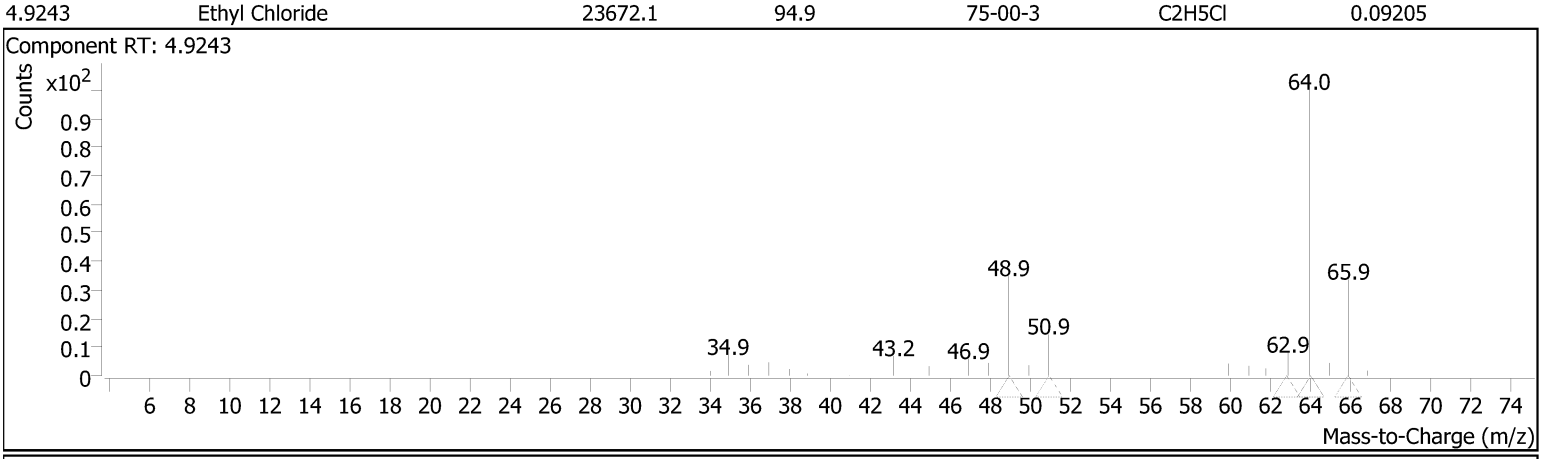



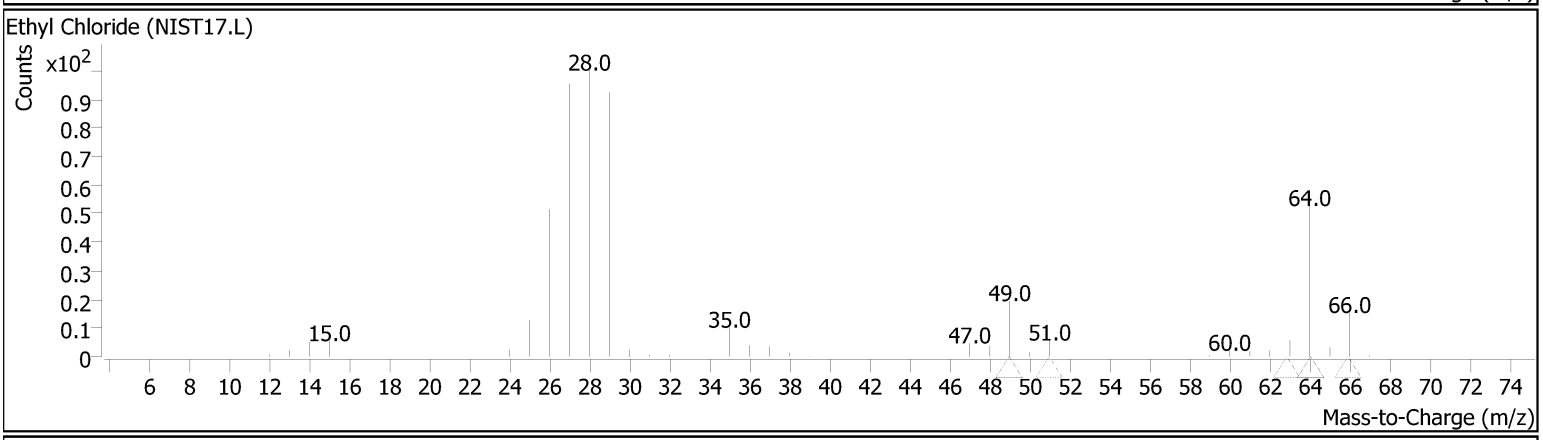



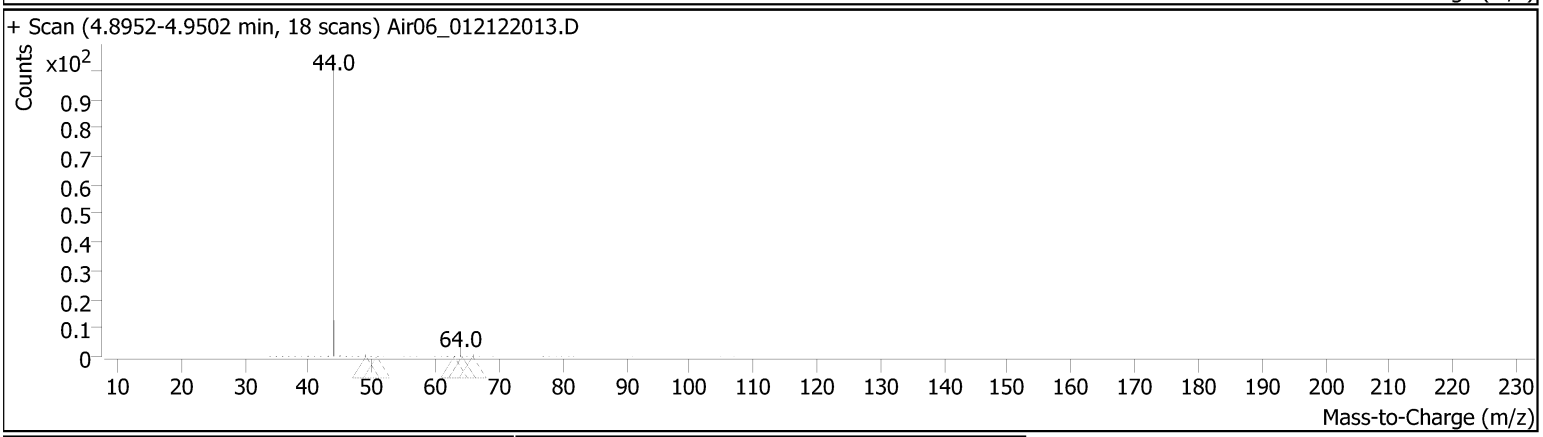



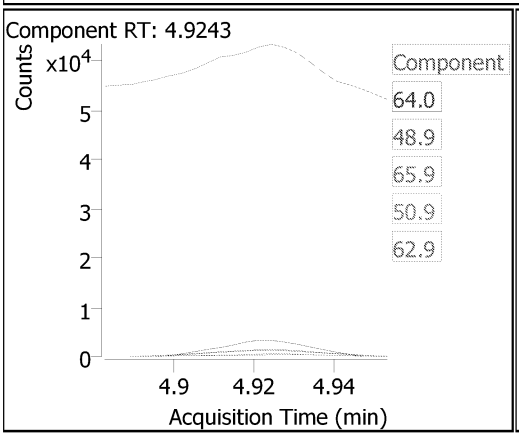



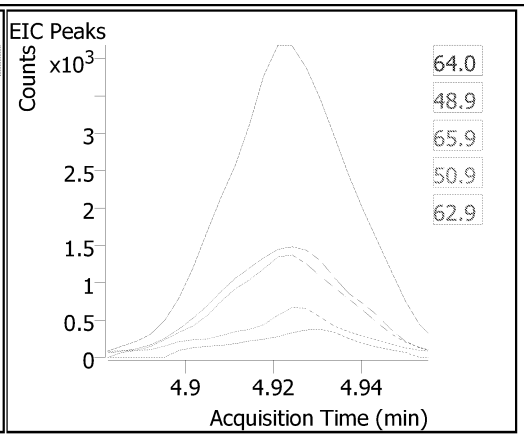
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.9243 | Ethyl Chloride | 23672.1 | 94.9 | 75-00-3 | C2H5Cl | 0.09205 |



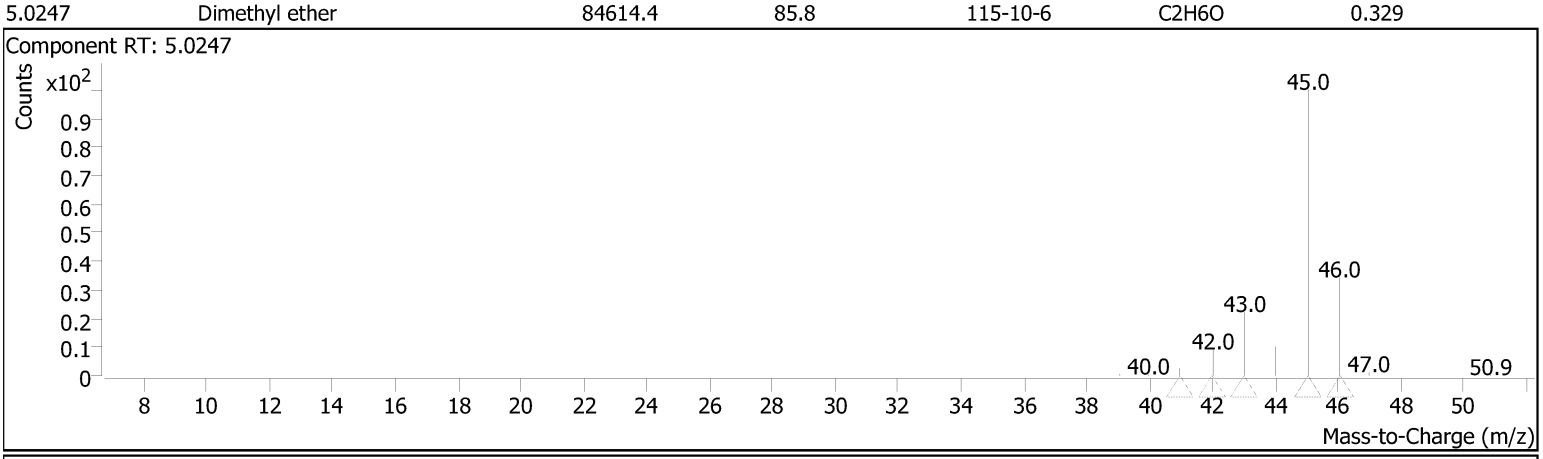



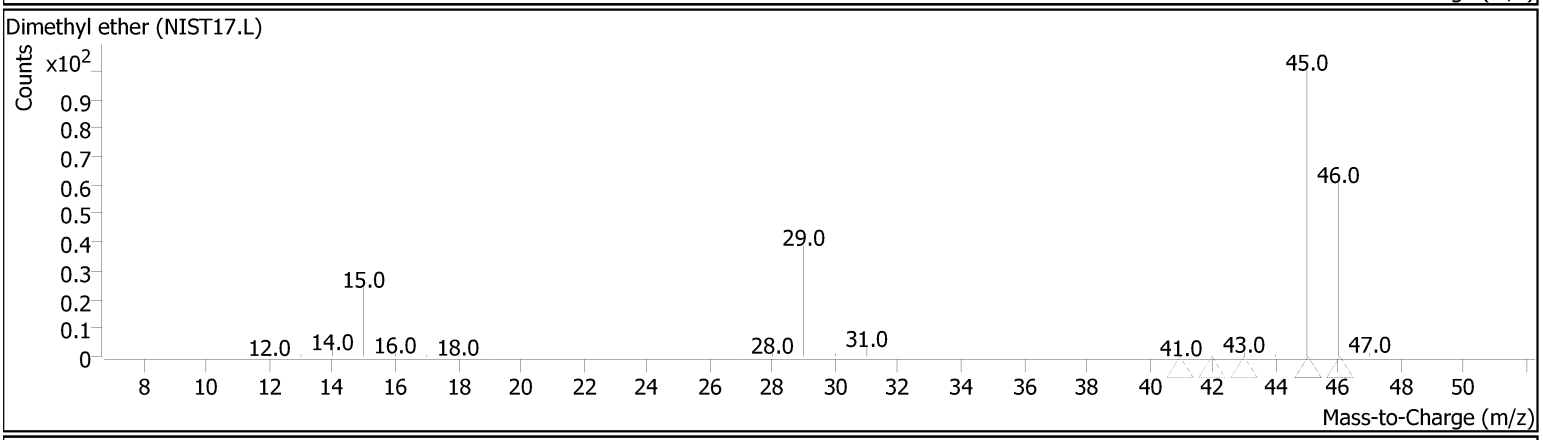



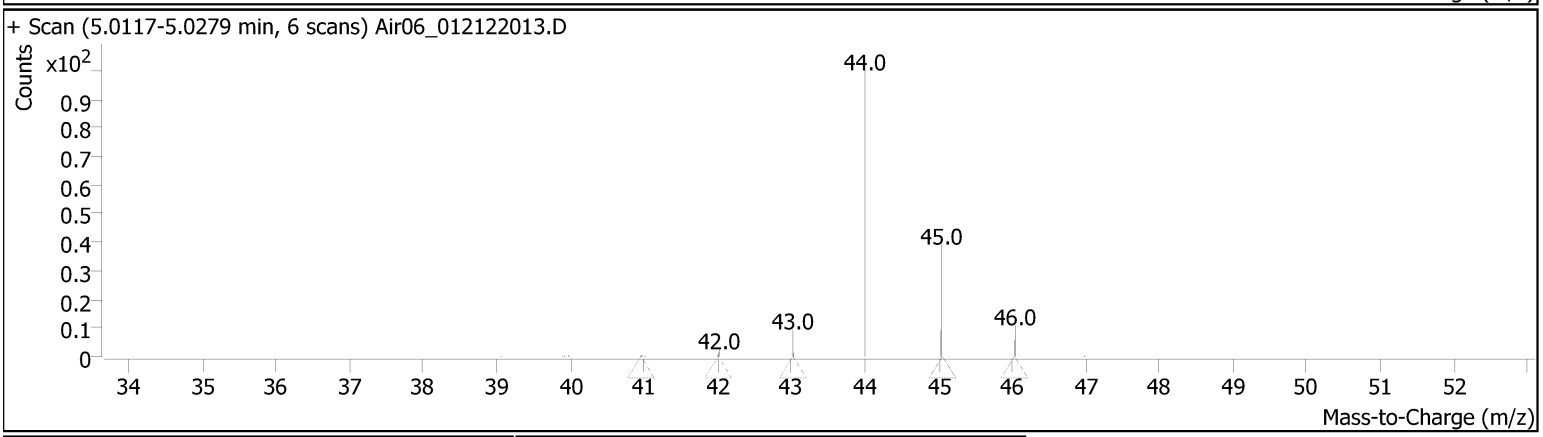



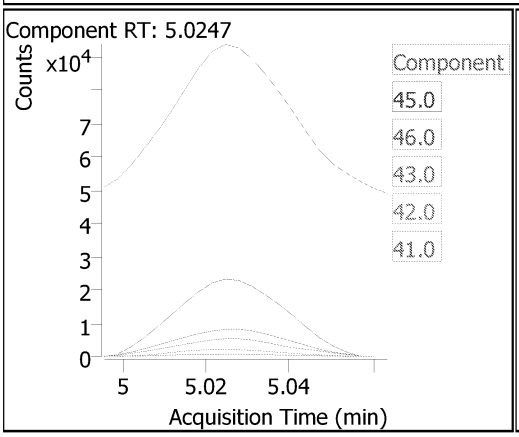


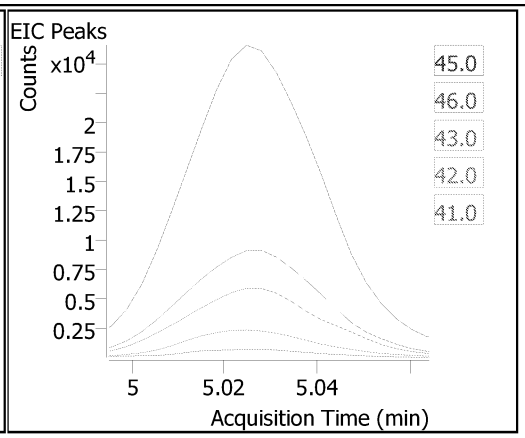

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.0247 | Dimethyl ether | 84614.4 | 85.8 | 115-10-6 | C2H6O | 0.329 |

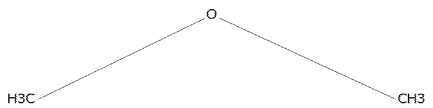


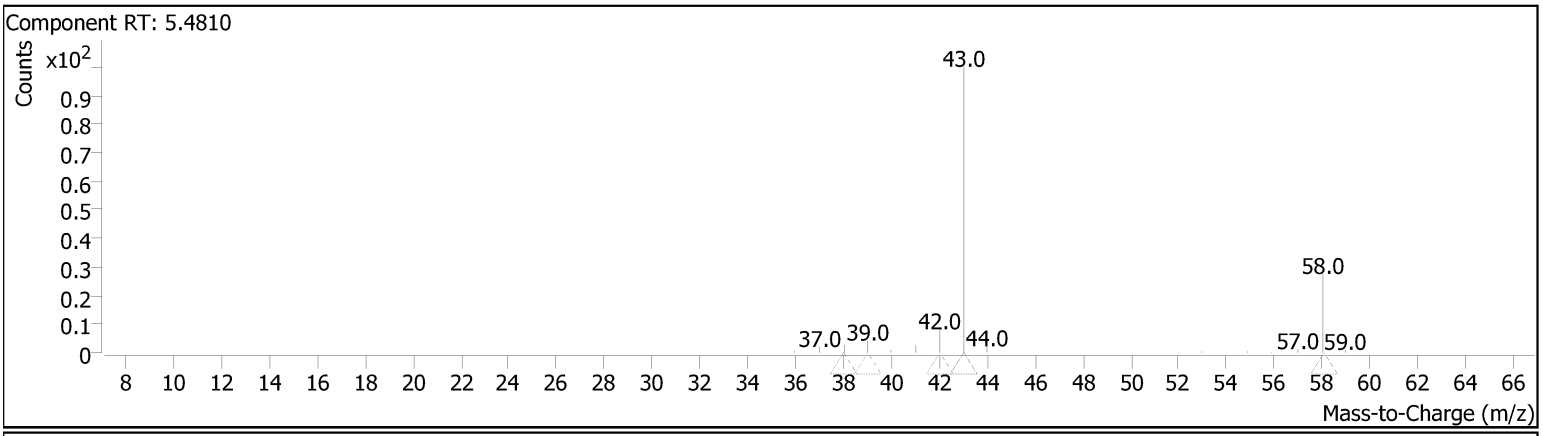



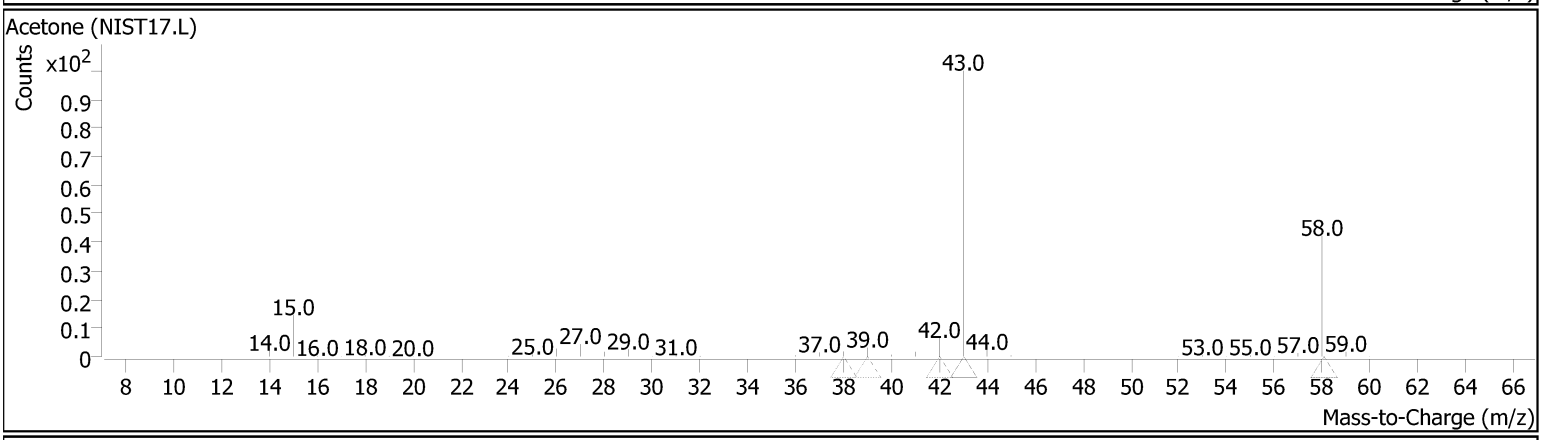



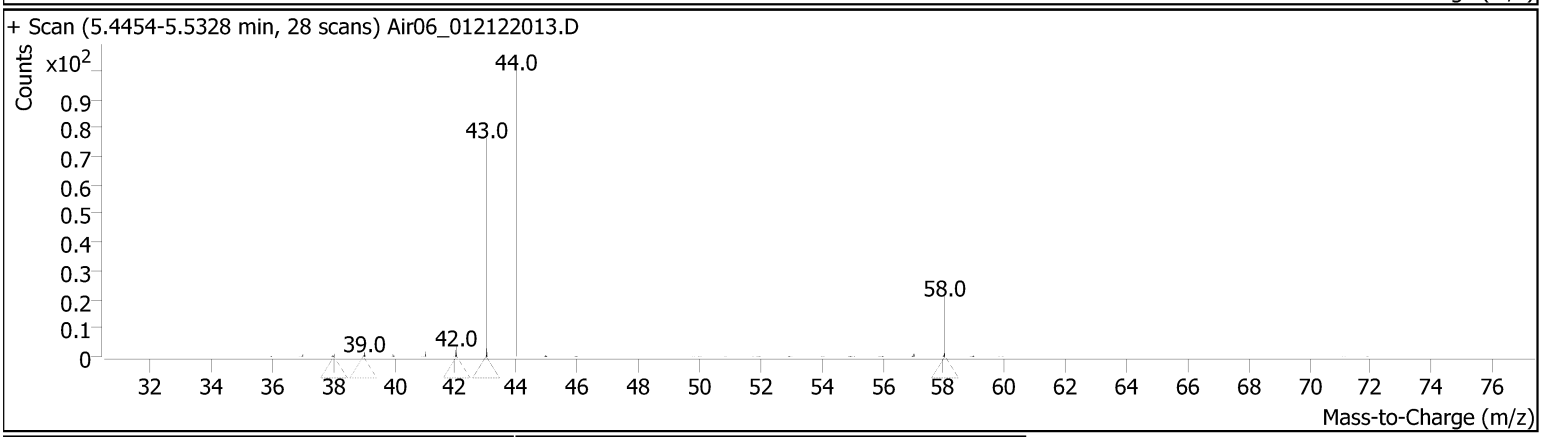



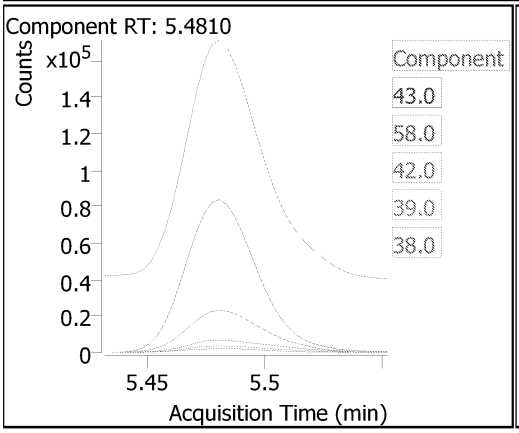



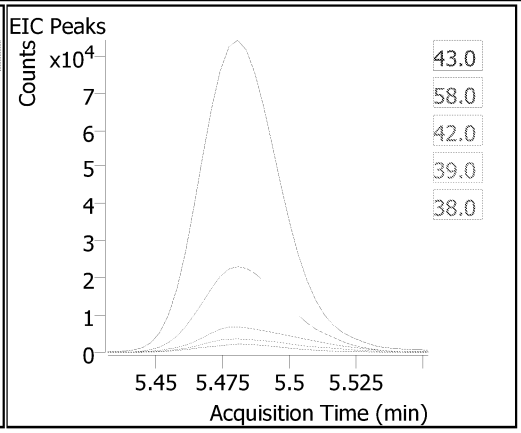
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.4810 | Acetone | 297528.7 | 98.8 | 67-64-1 | C3H6O | 1.157 |

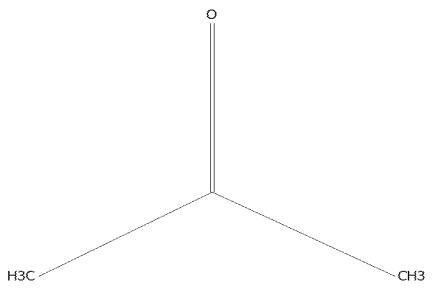


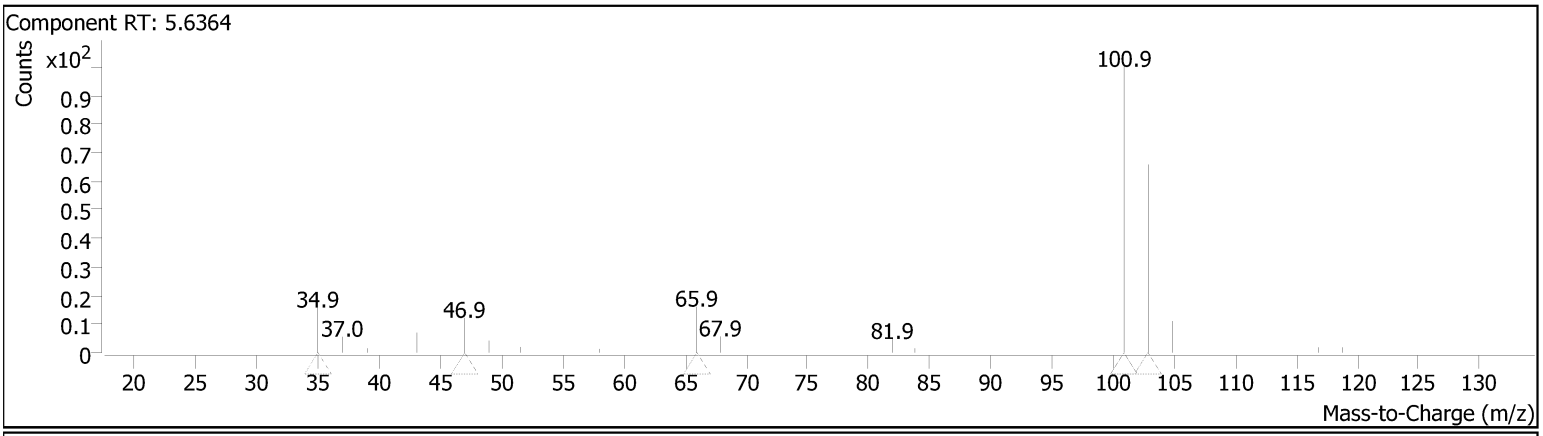



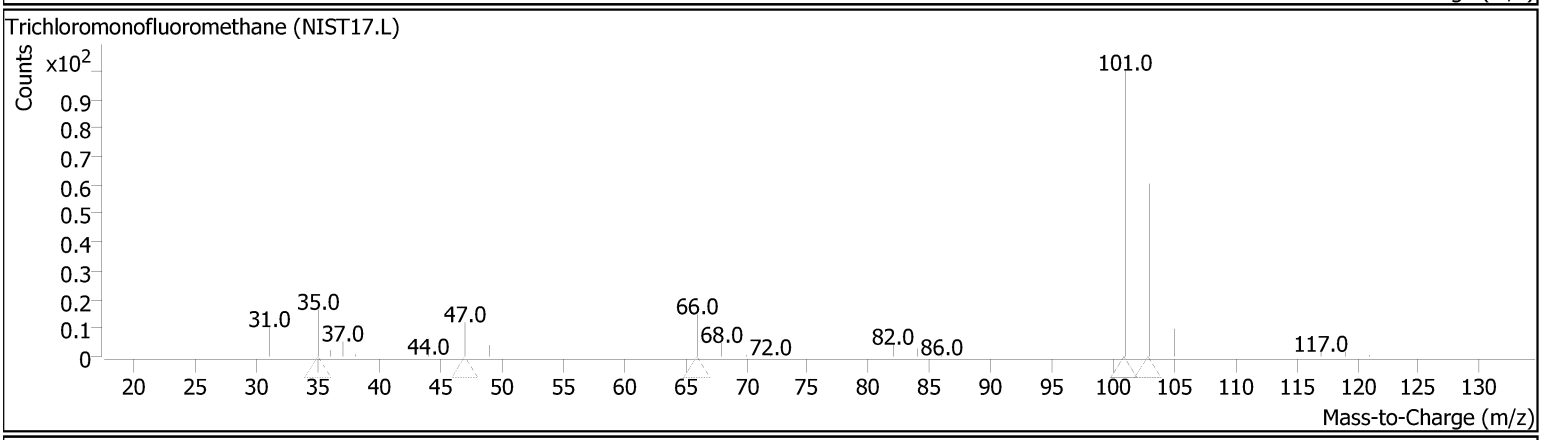



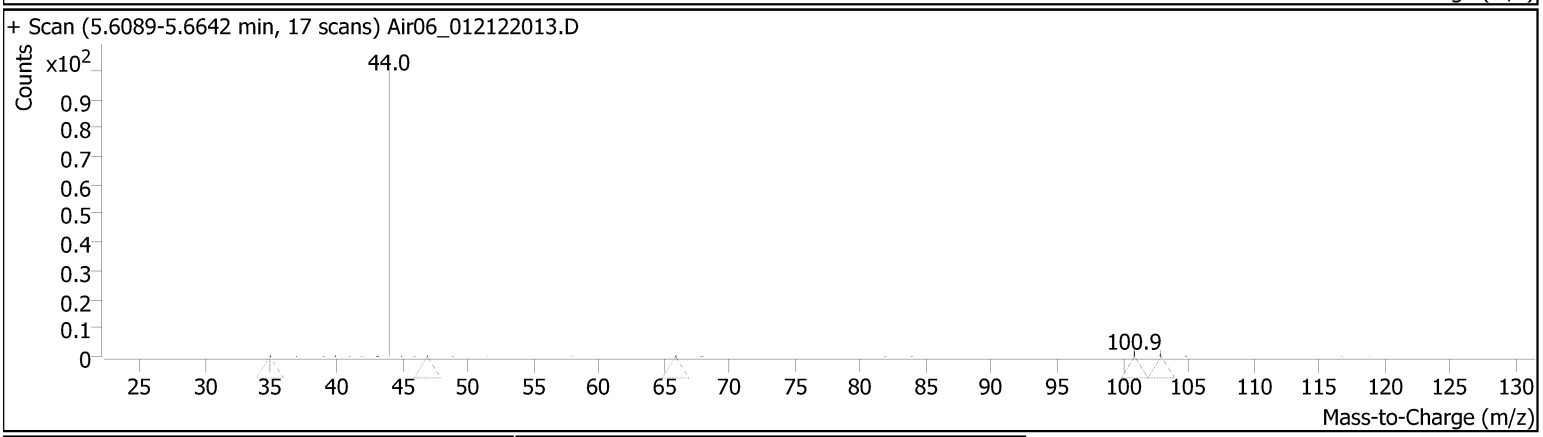



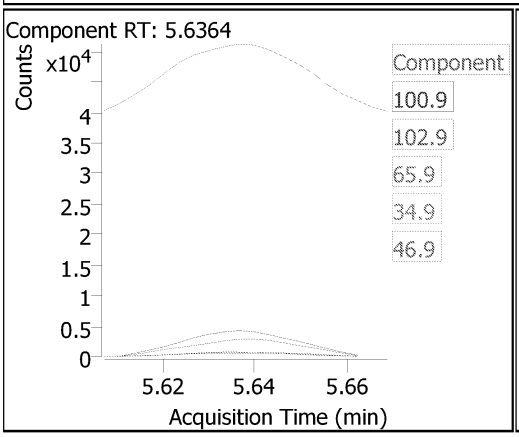



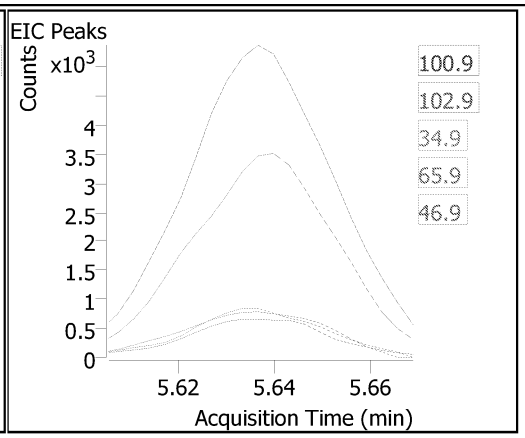
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.6364 | Trichloromonofluoromethane | 25743.8 | 96.0 | 75-69-4 | CCl3F | 0.1001 |

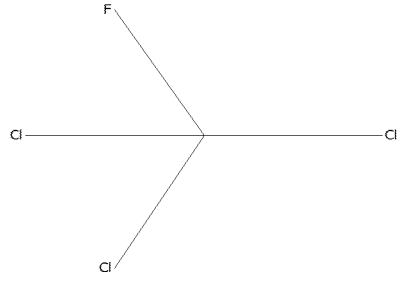


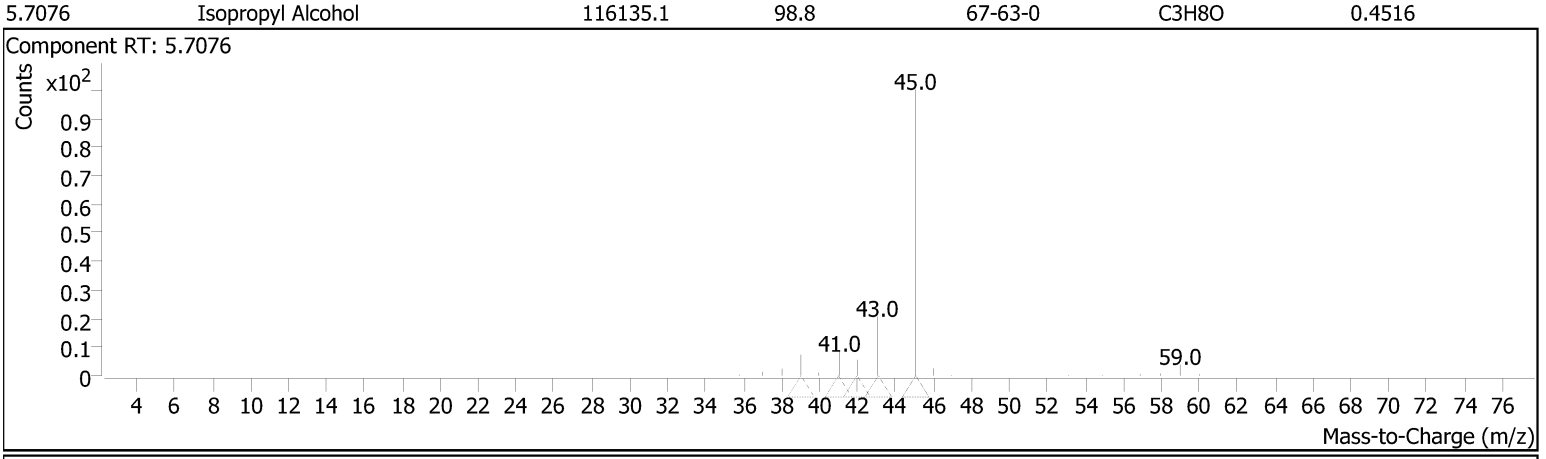



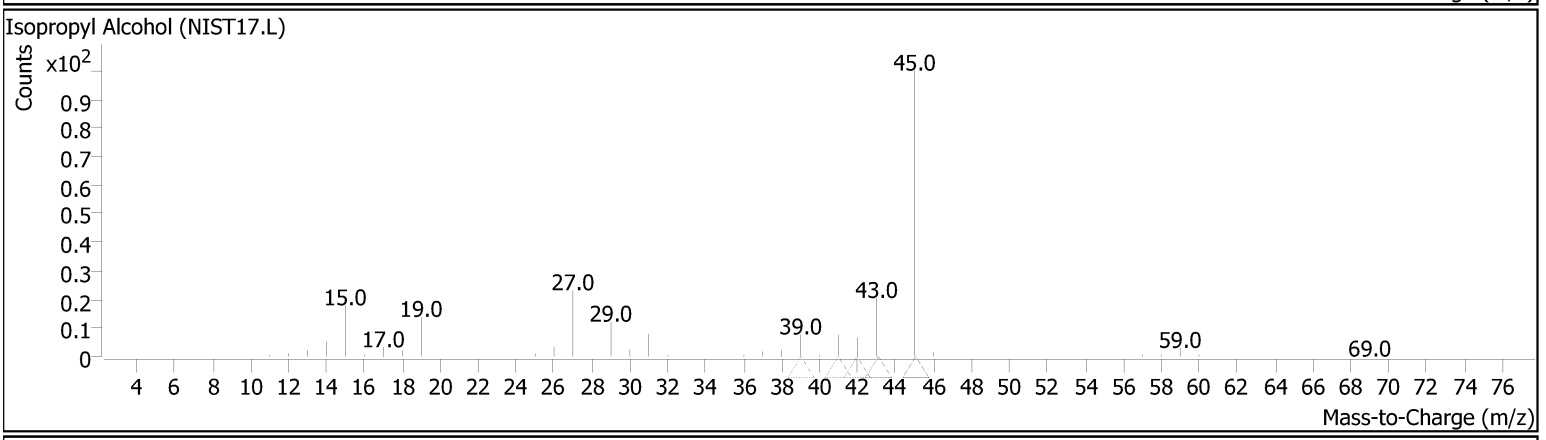



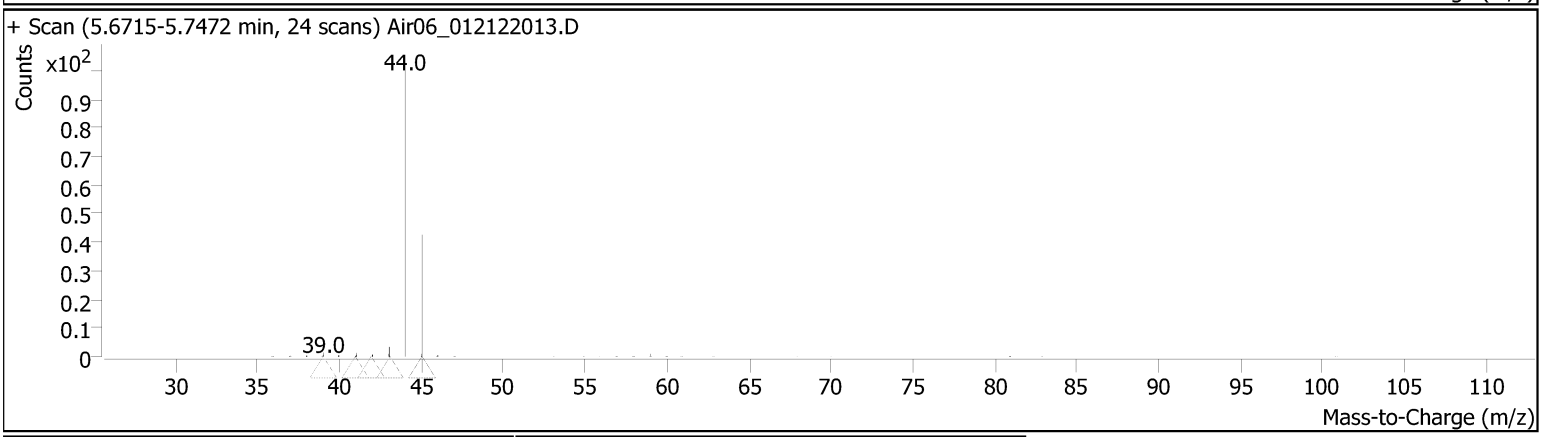



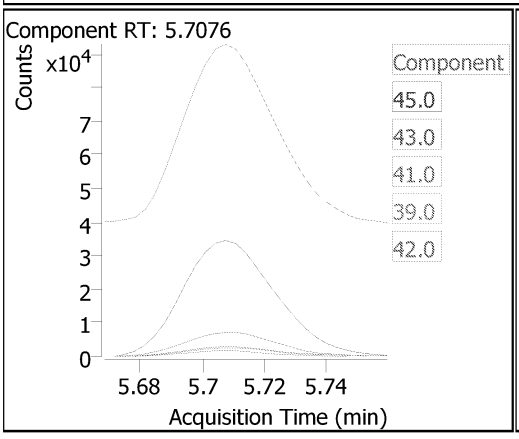



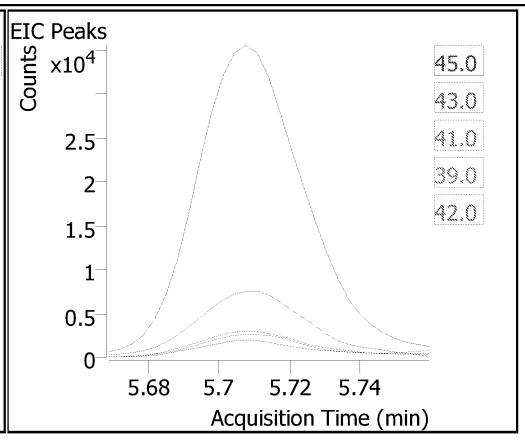
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.7076 | Isopropyl Alcohol | 116135.1 | 98.8 | 67-63-0 | C3H8O | 0.4516 |

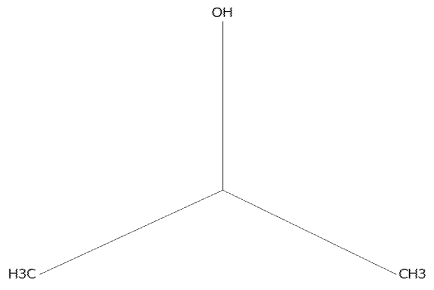


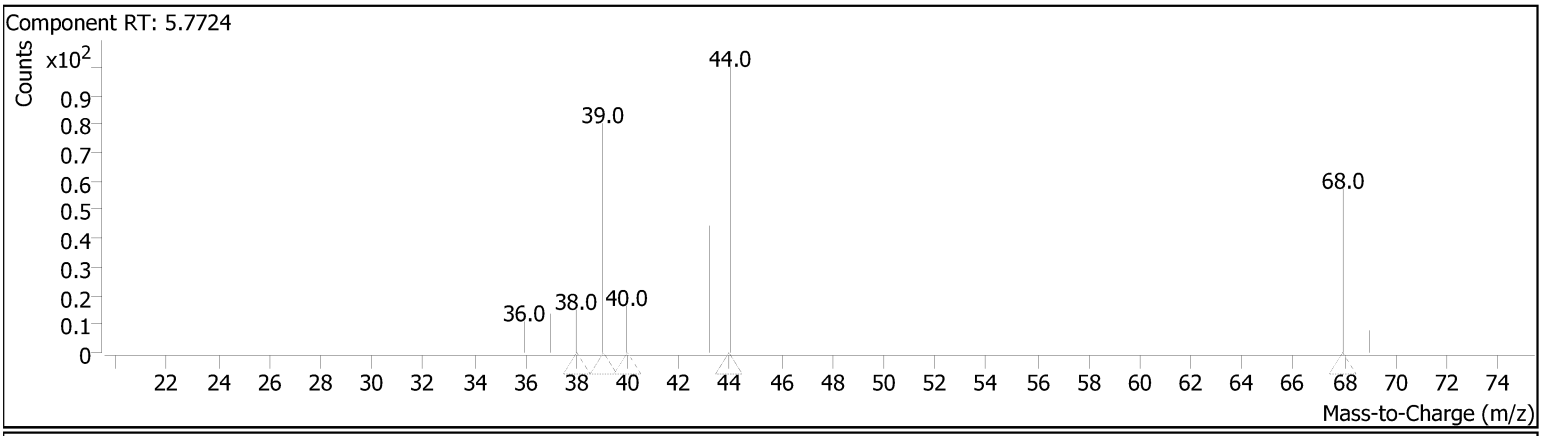



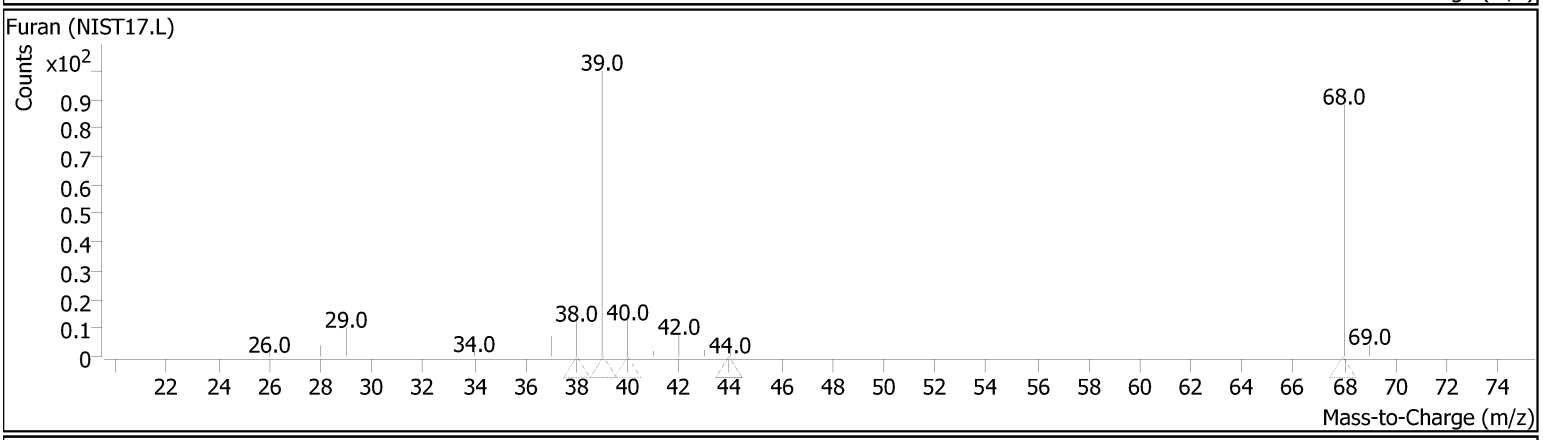



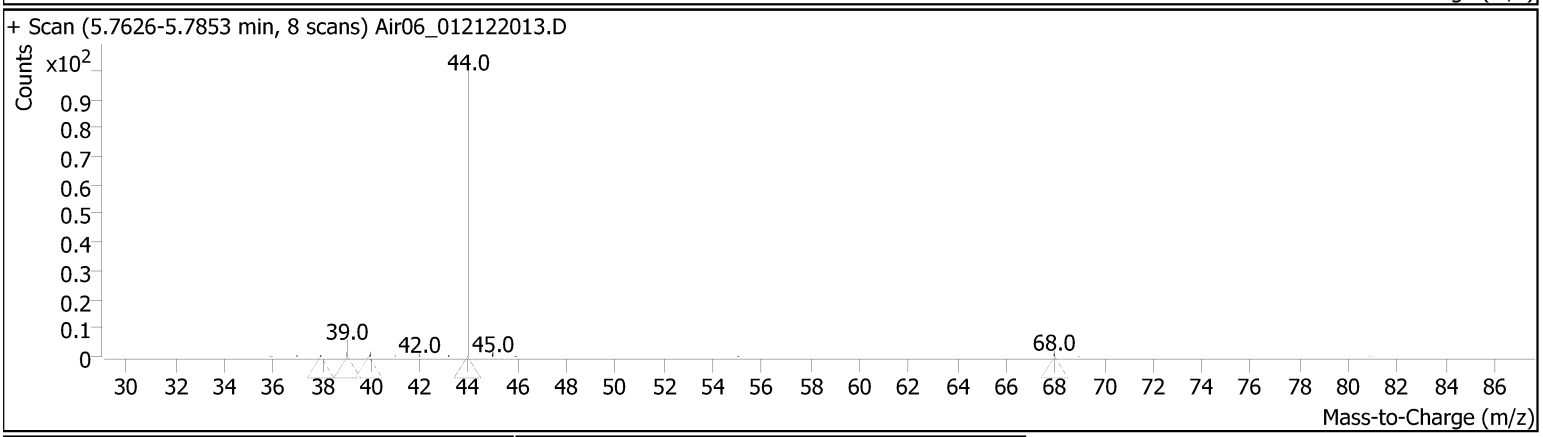



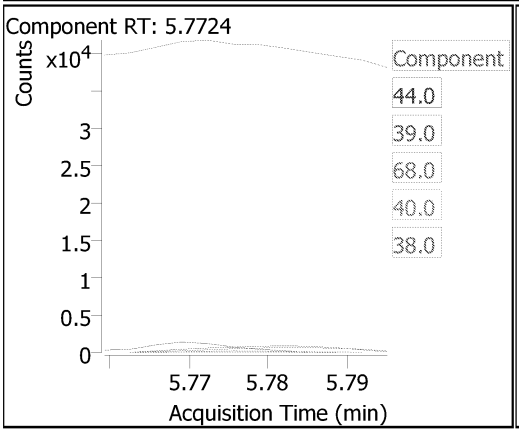



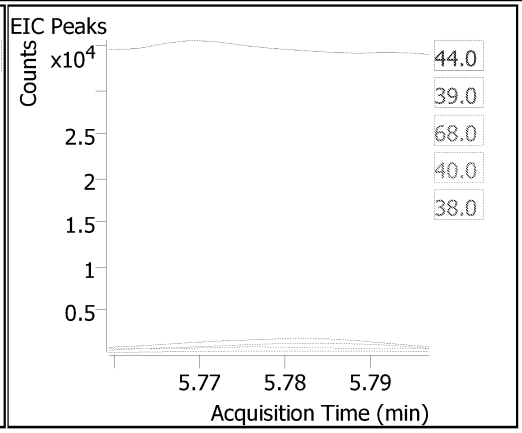
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.7724 | Furan | 5518.6 | 74.9 | 110-00-9 | C4H4O | 0.02146 |

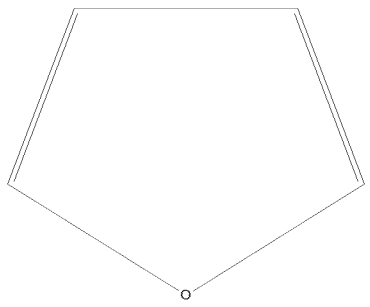


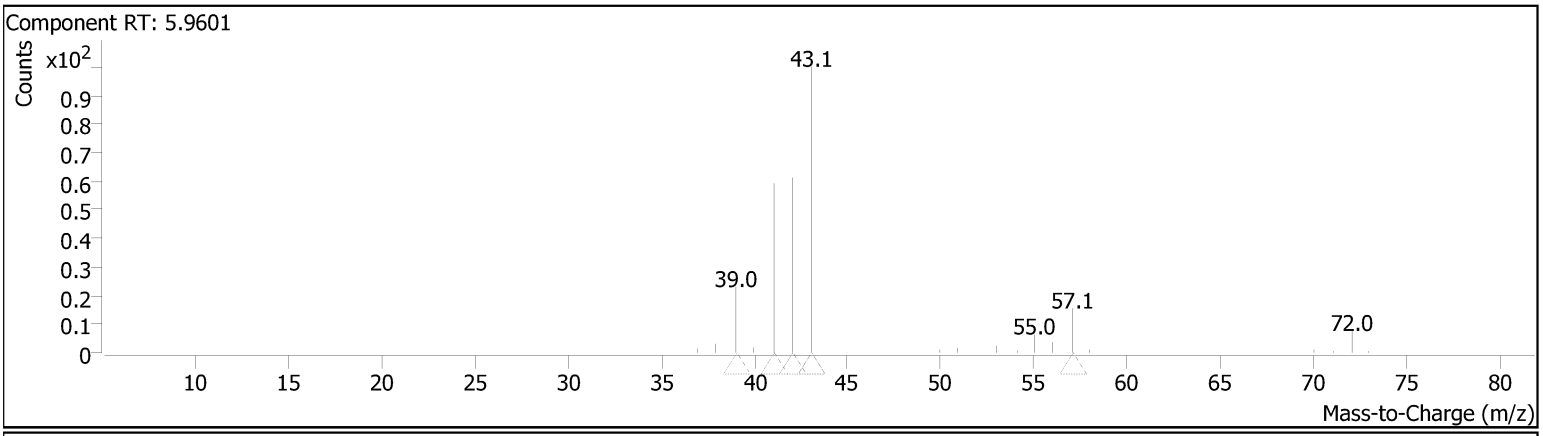



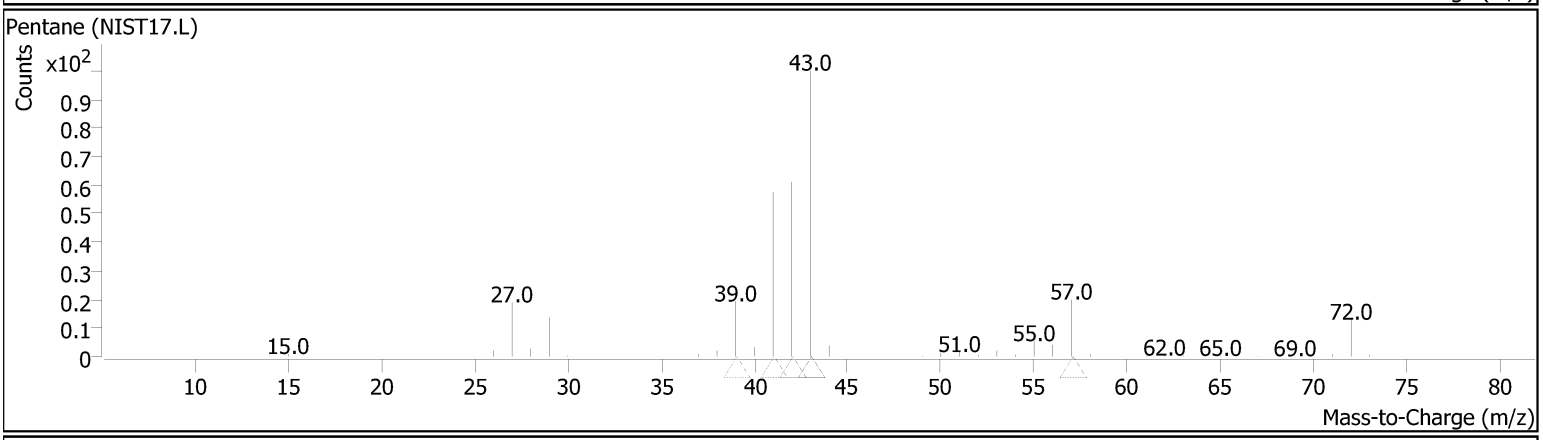



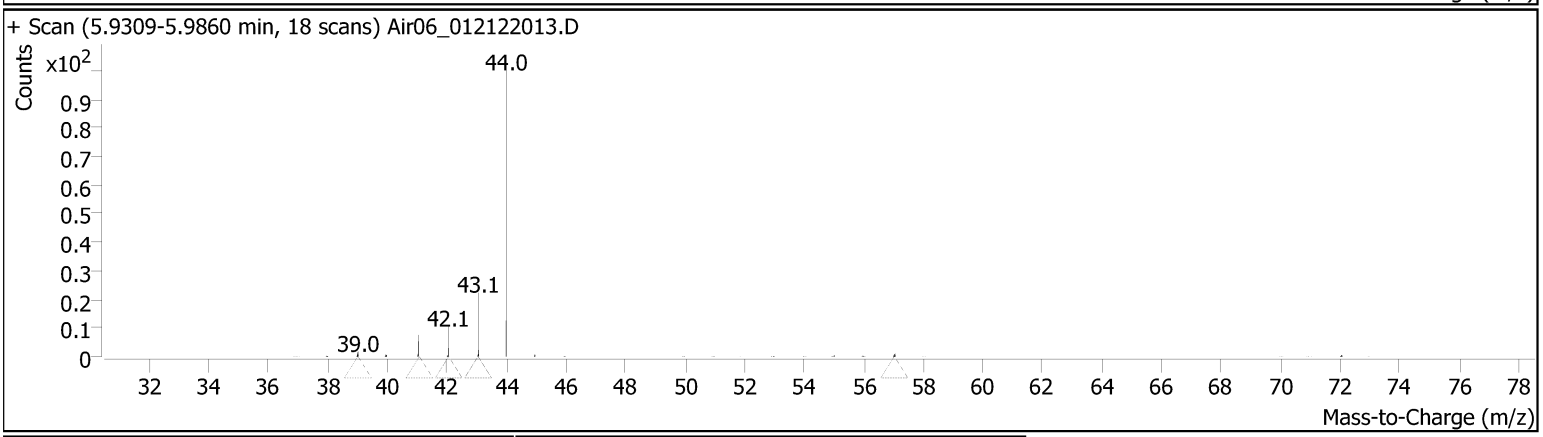



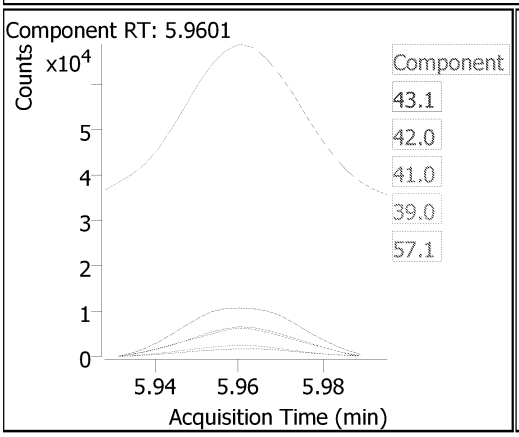



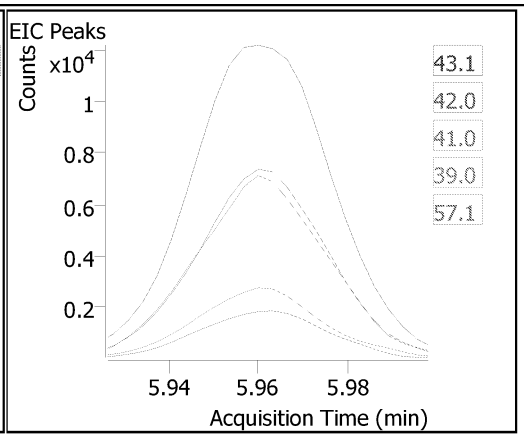
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.9601 | Pentane | 65523.9 | 96.7 | 109-66-0 | C5H12 | 0.2548 |

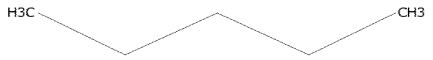


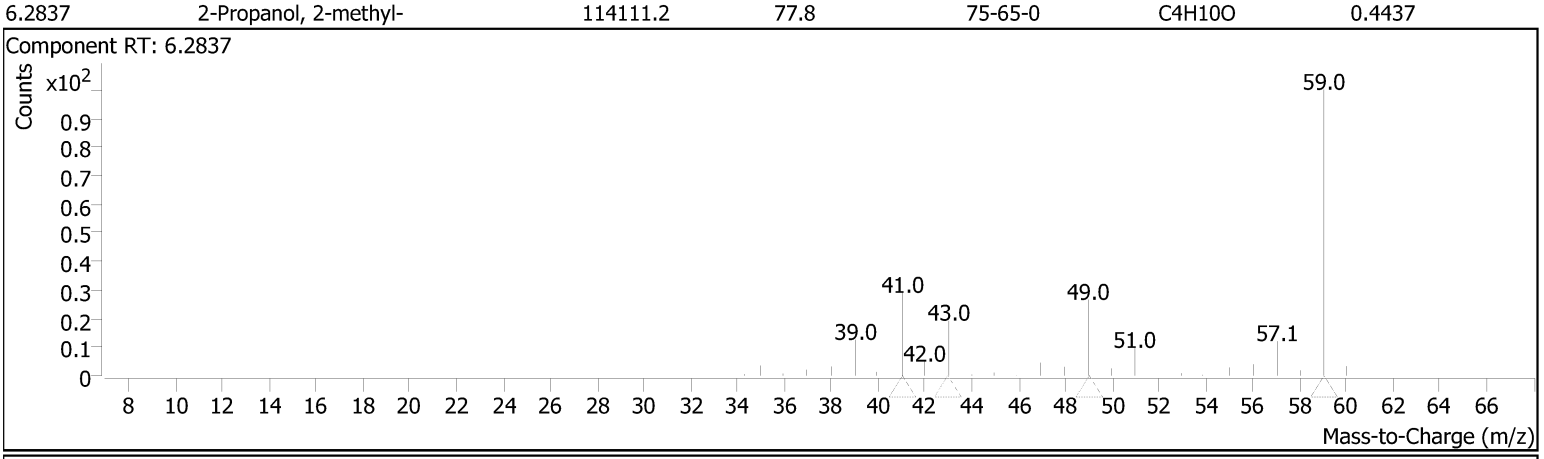



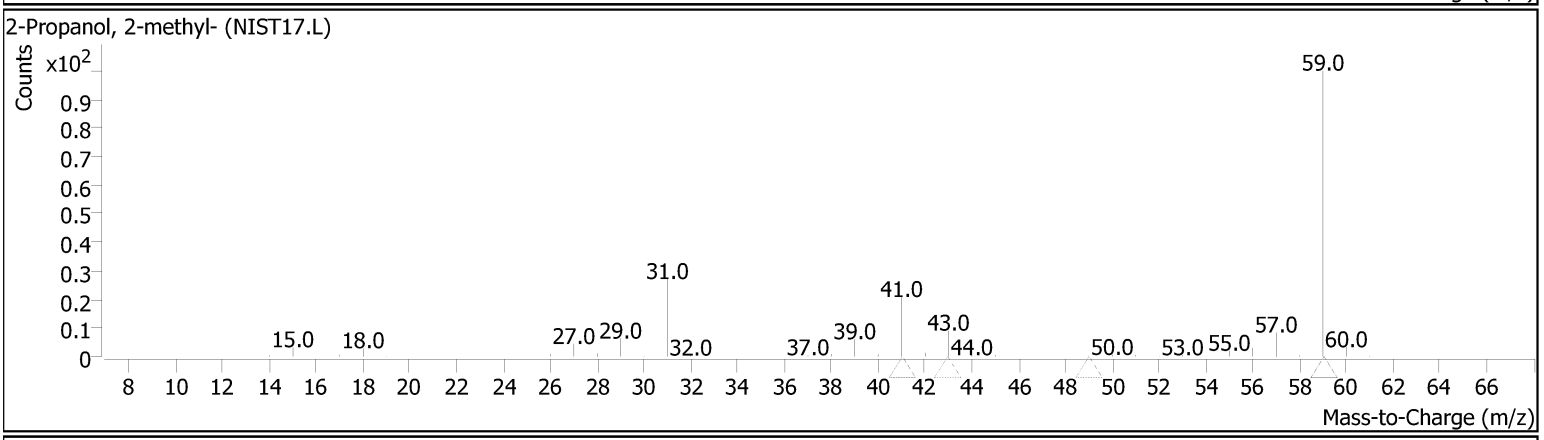



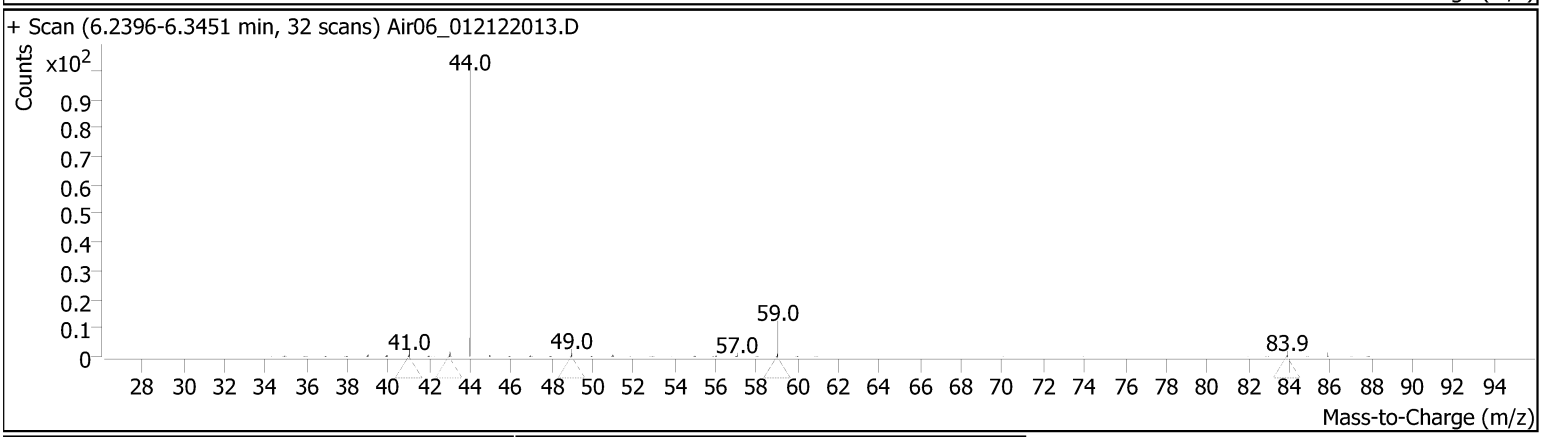



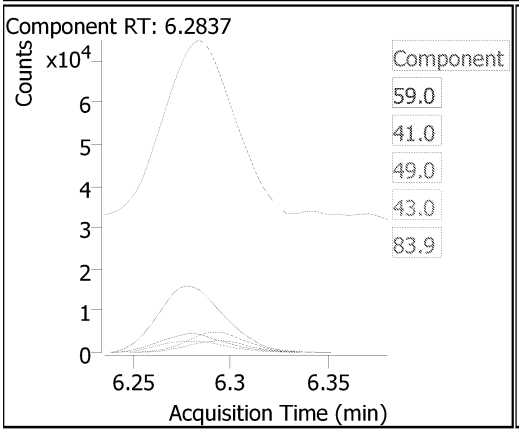



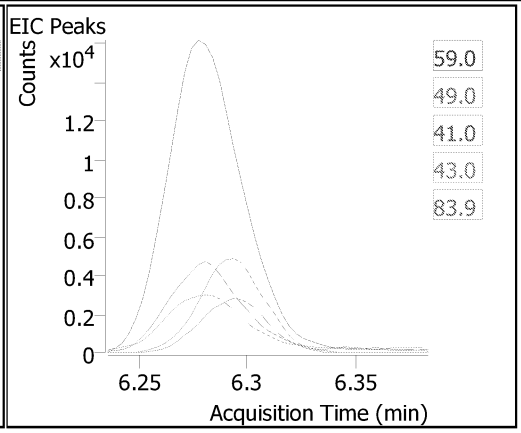
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.2837 | 2-Propanol, 2-methyl- | 114111.2 | 77.8 | 75-65-0 | C4H10O | 0.4437 |

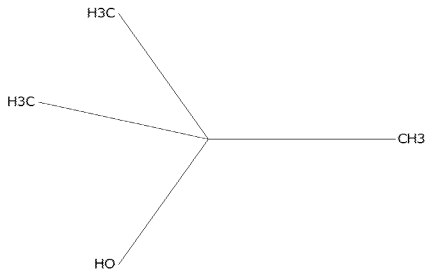


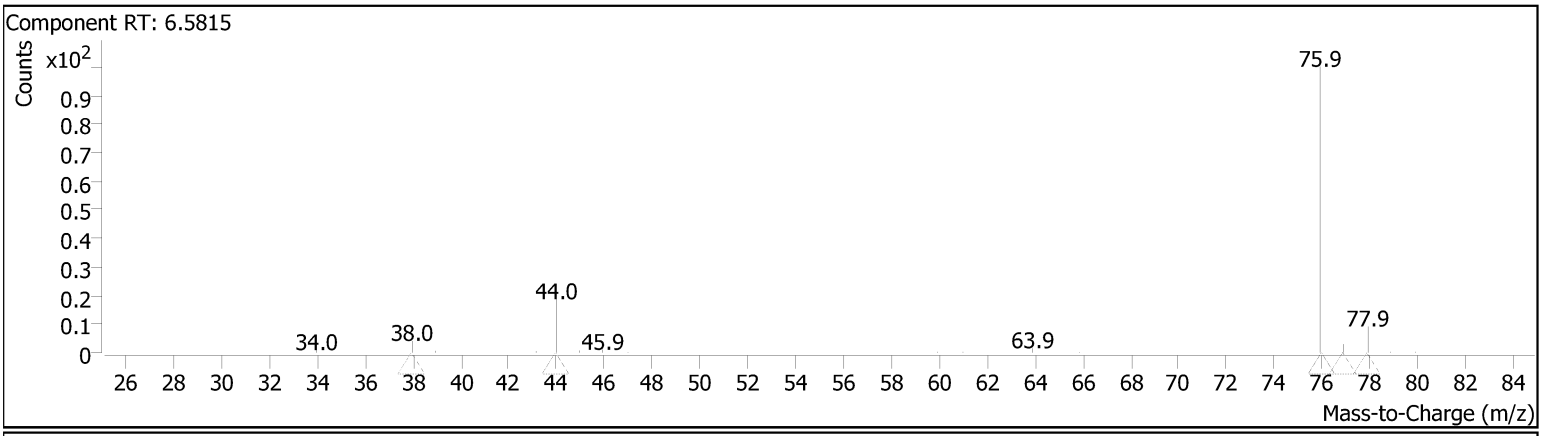



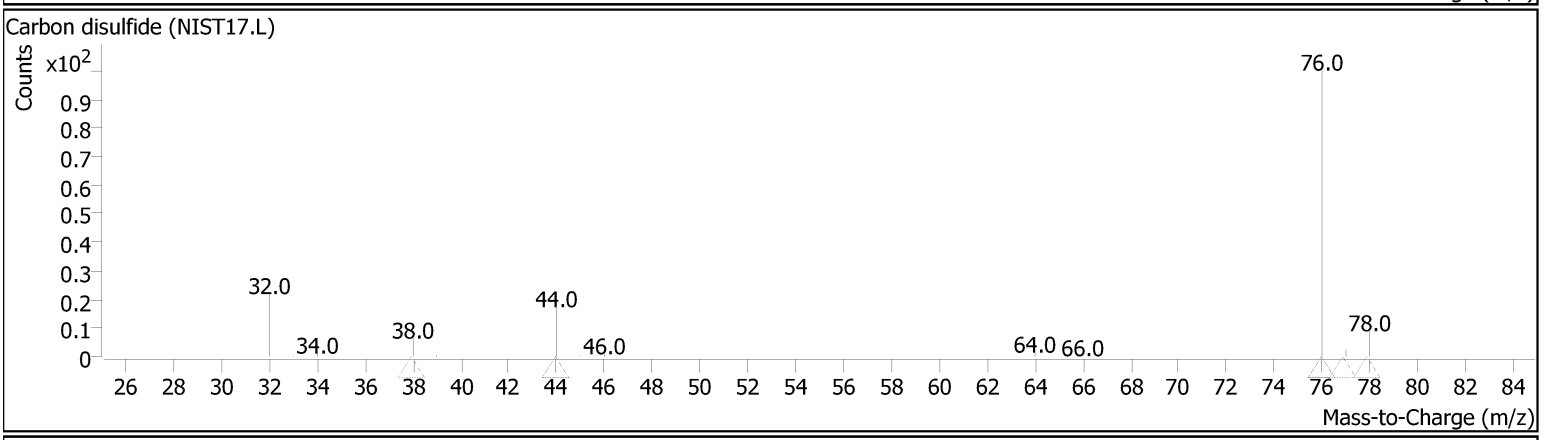



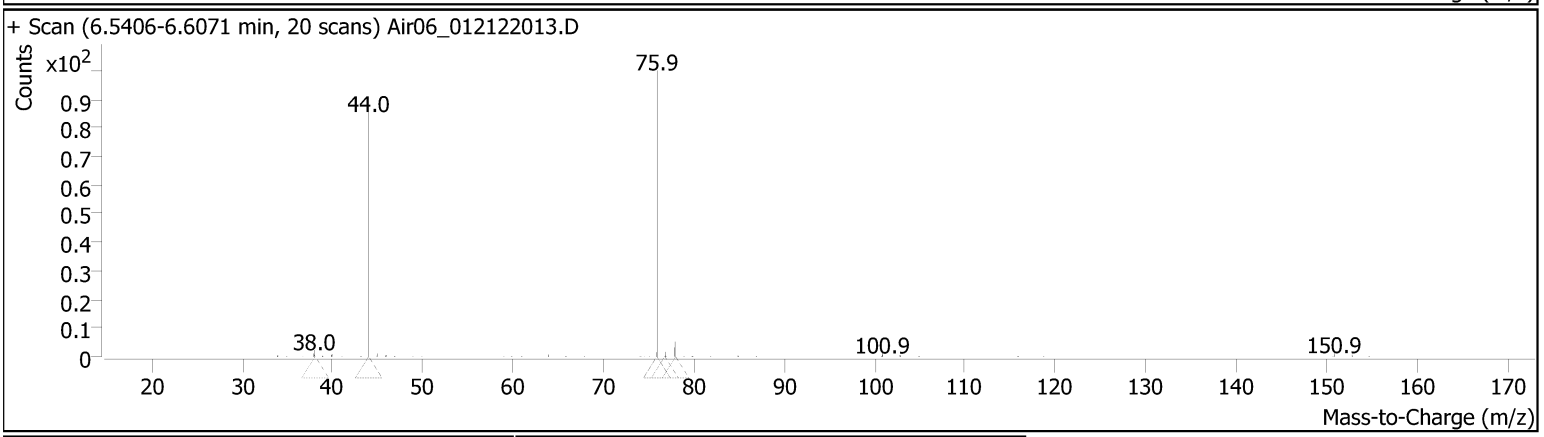



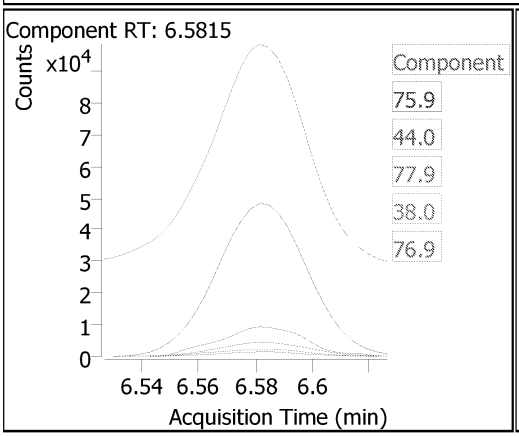



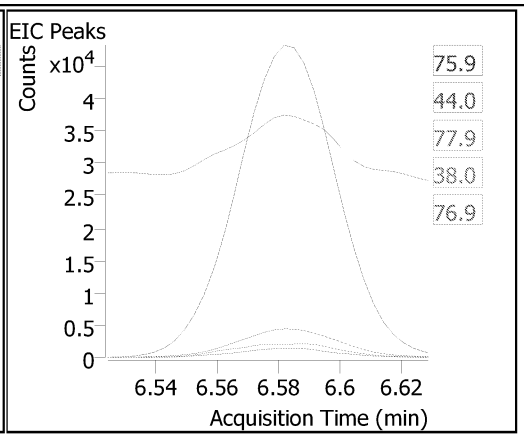
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.5815 | Carbon disulfide | 162302.7 | 97.6 | 75-15-0 | CS2 | 0.6311 |



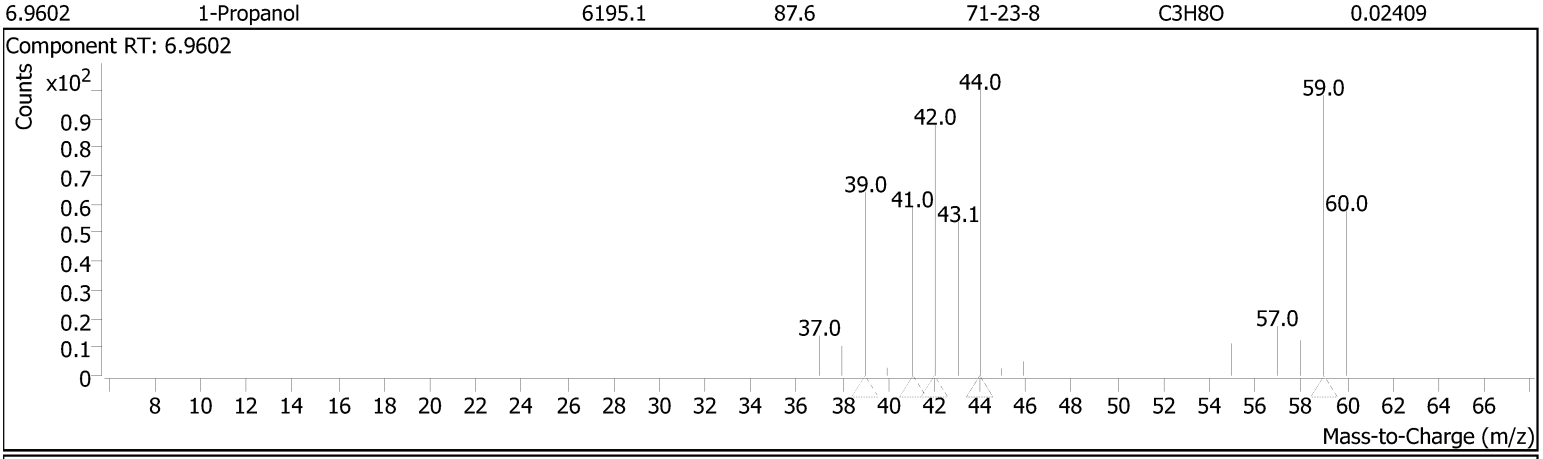



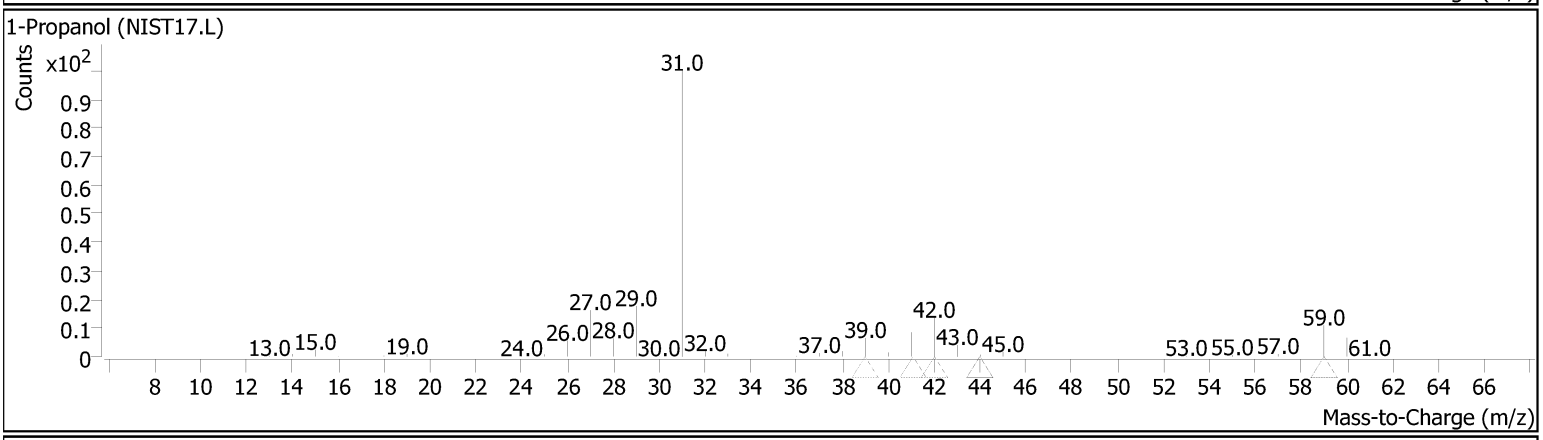



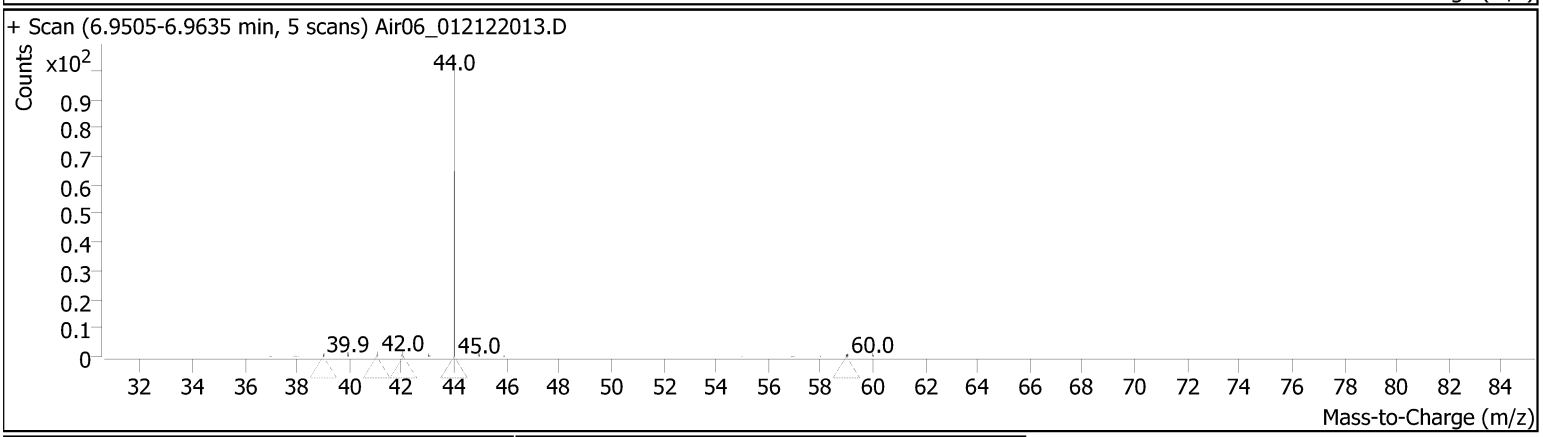



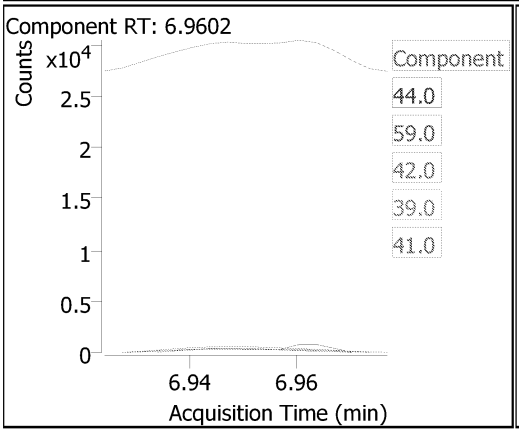



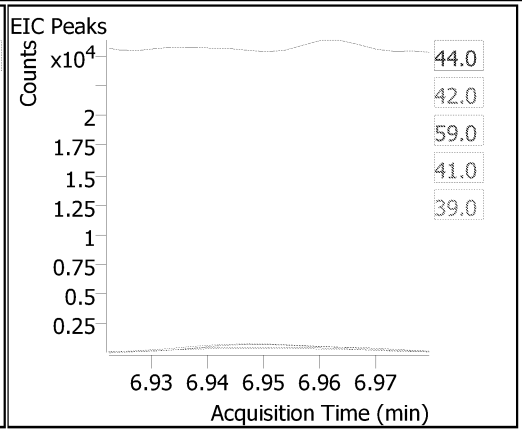
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.9602 | 1-Propanol | 6195.1 | 87.6 | 71-23-8 | C3H8O | 0.02409 |



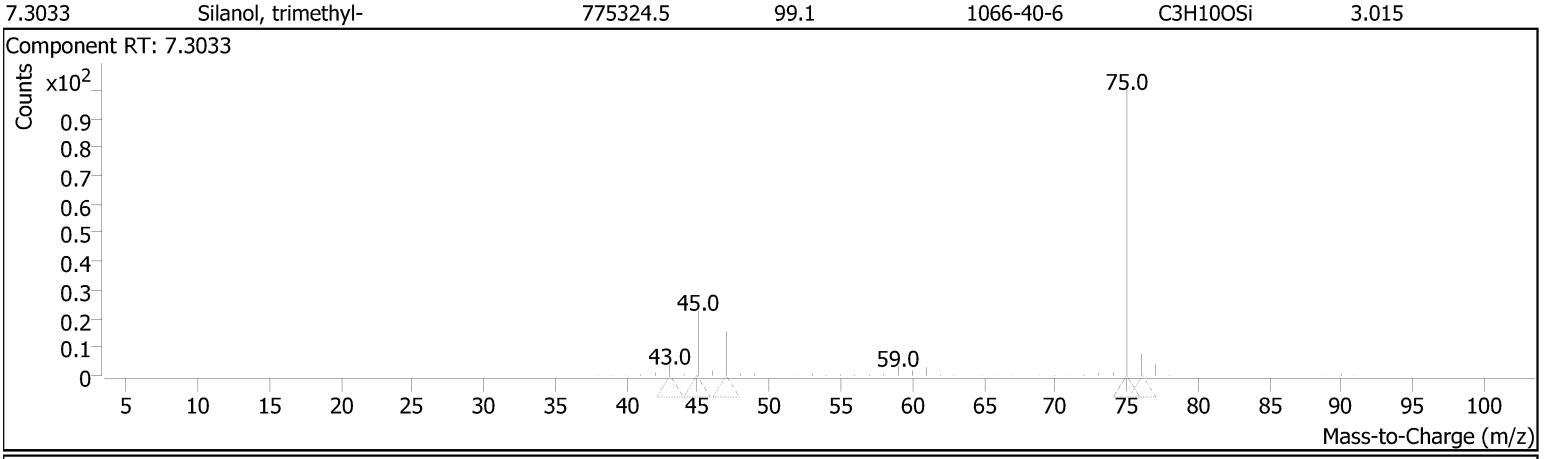



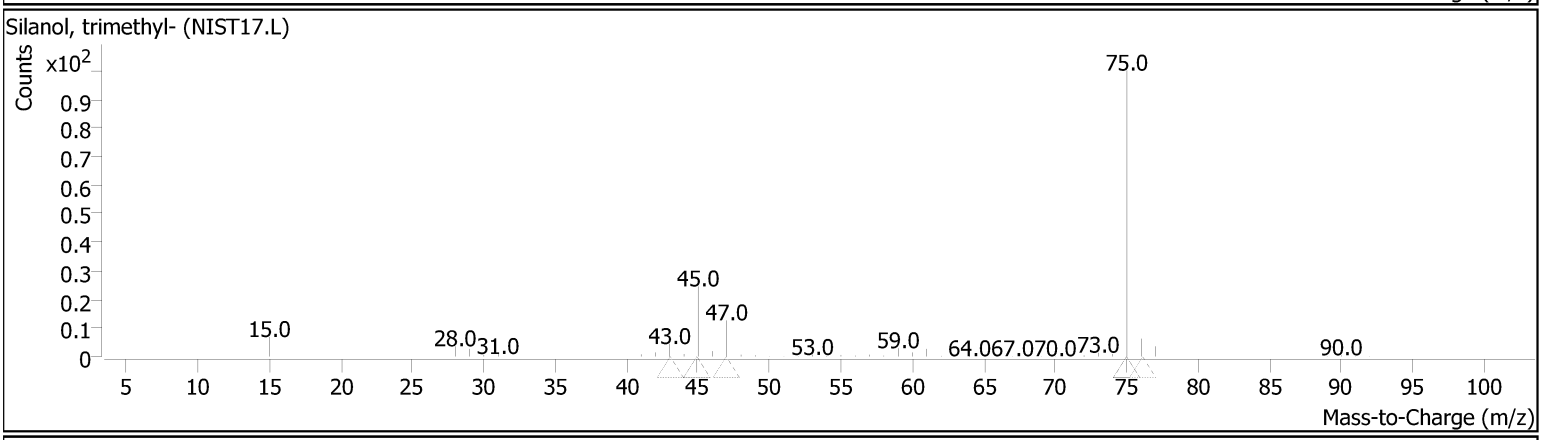



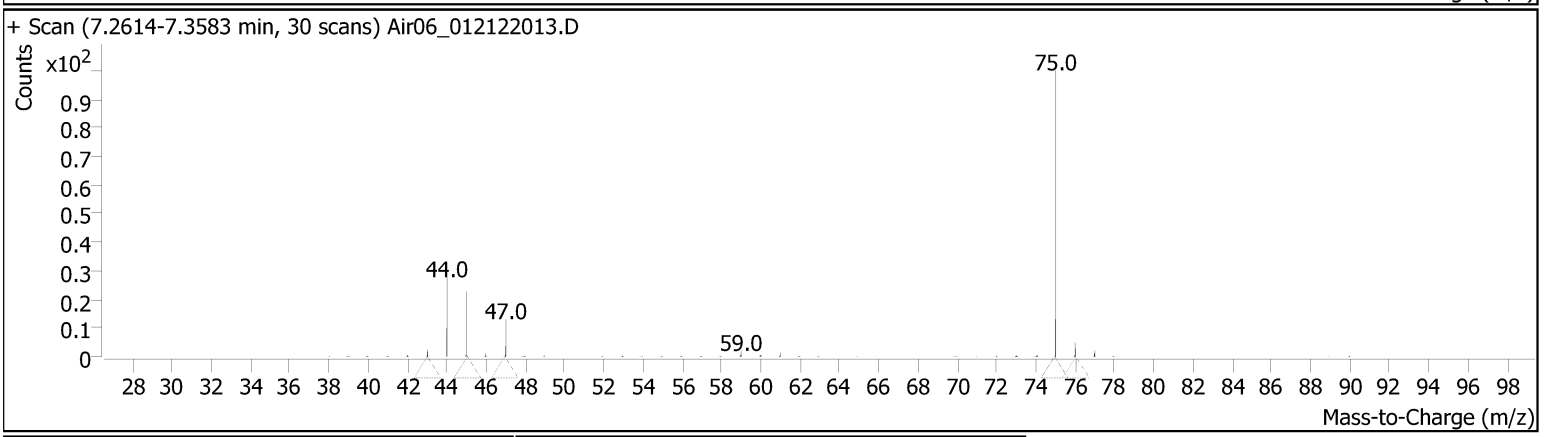



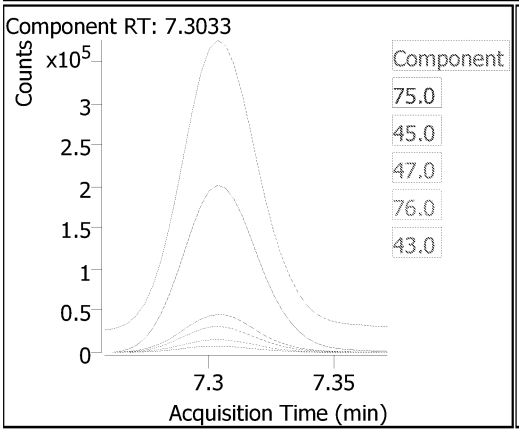


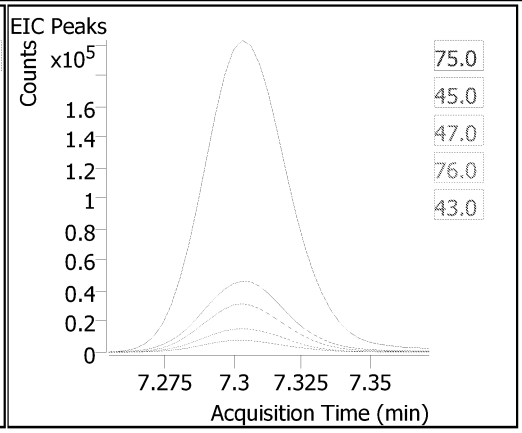

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.3033 | Silanol, trimethyl- | 775324.5 | 99.1 | 1066-40-6 | C3H10OSi | 3.015 |

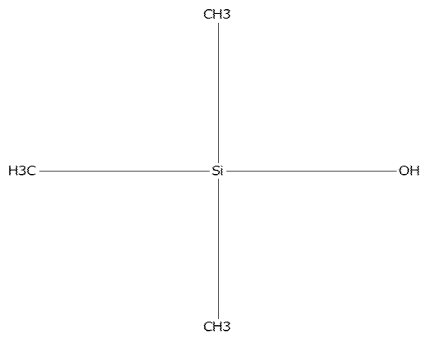


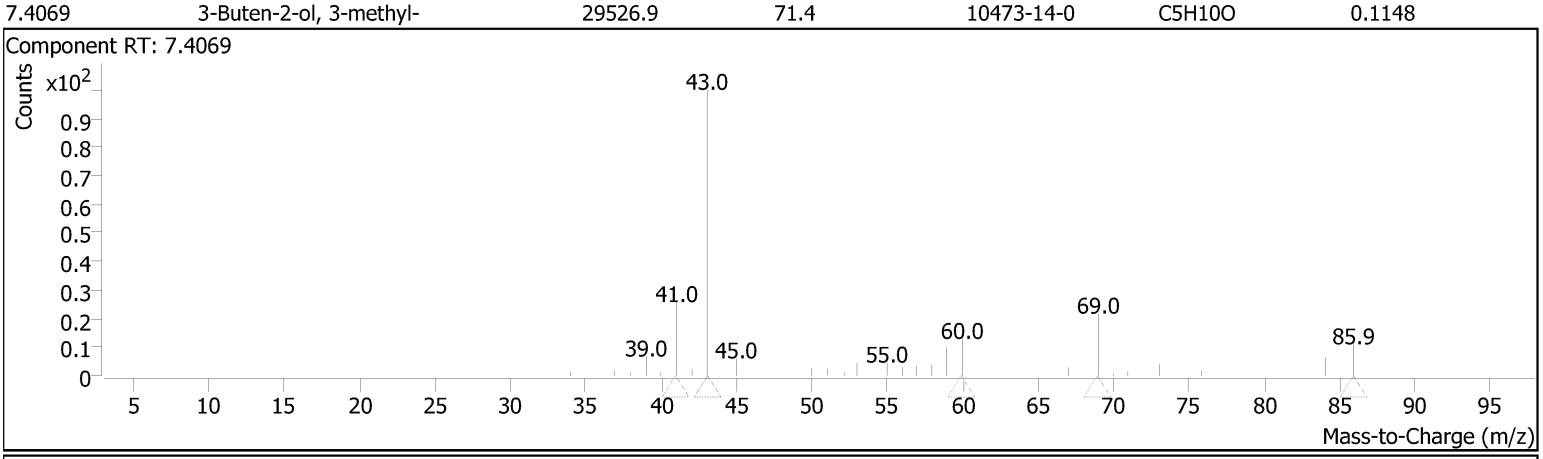



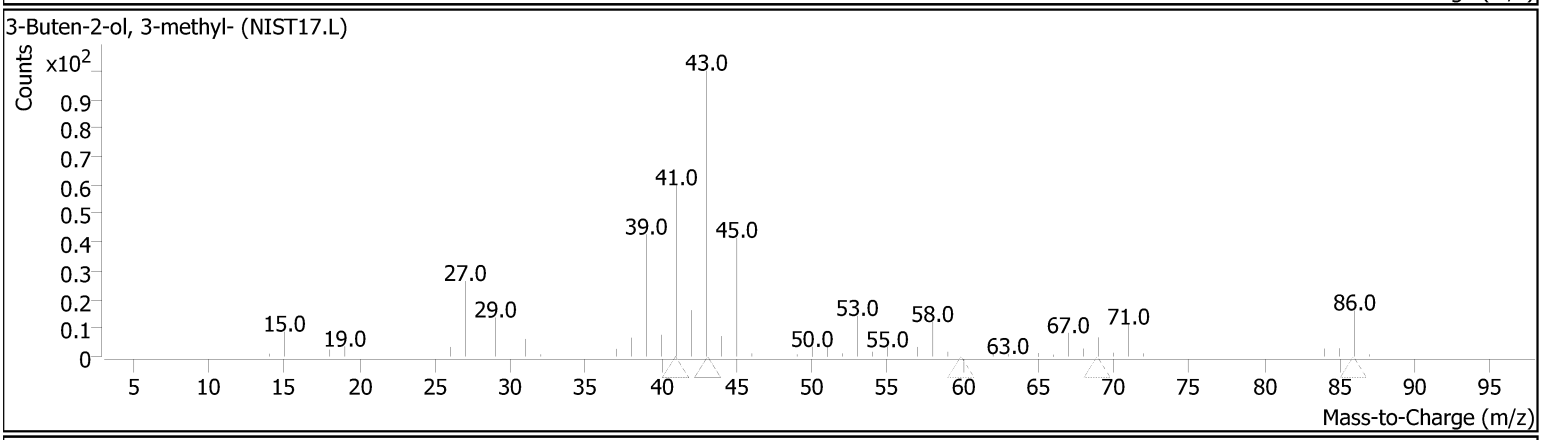



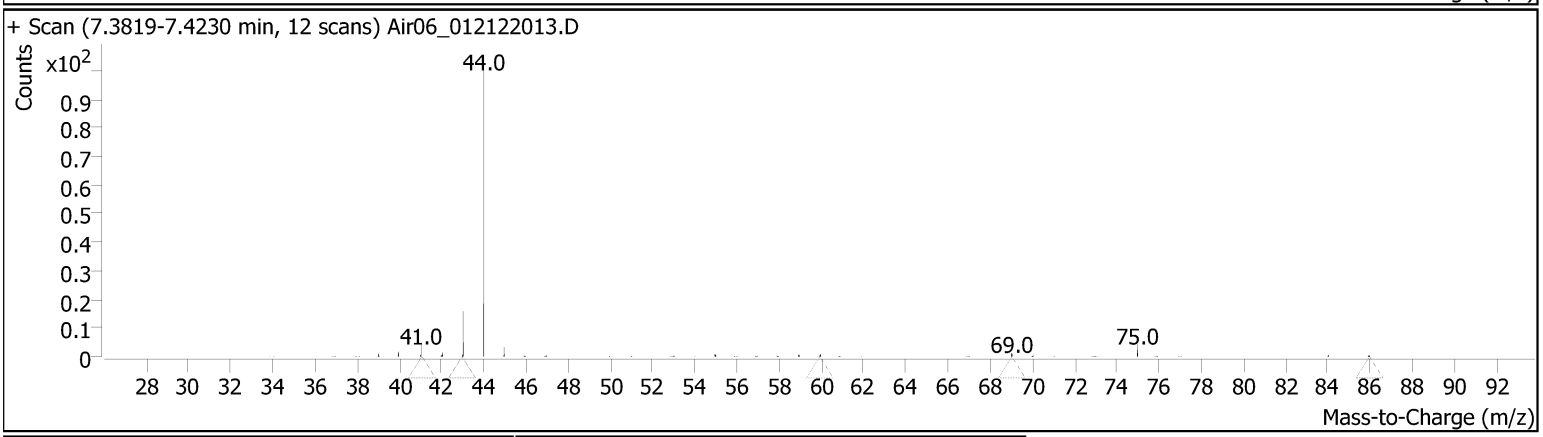



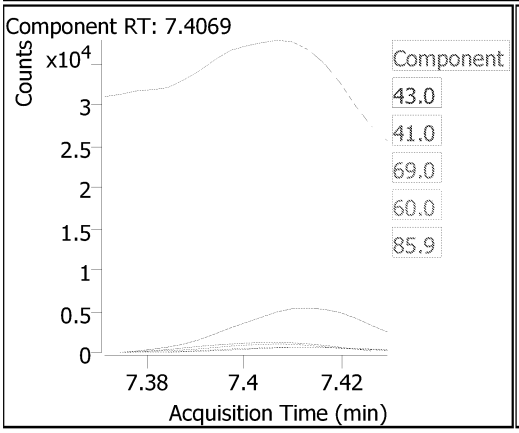



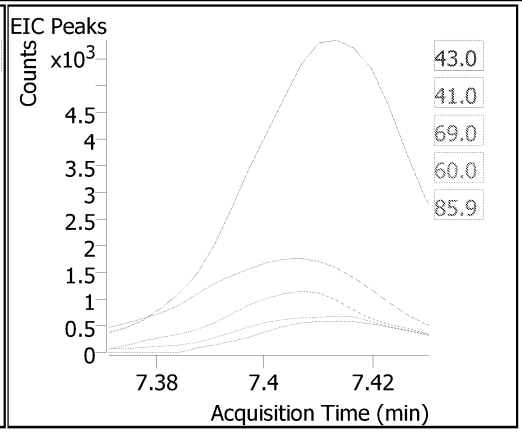
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.4069 | 3-Buten-2-ol, 3-methyl- | 29526.9 | 71.4 | 10473-14-0 | C5H10O | 0.1148 |

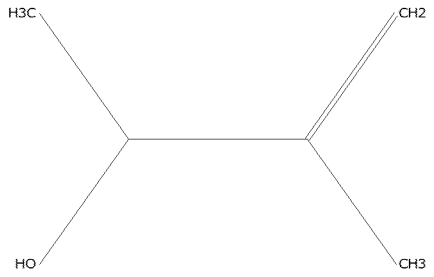


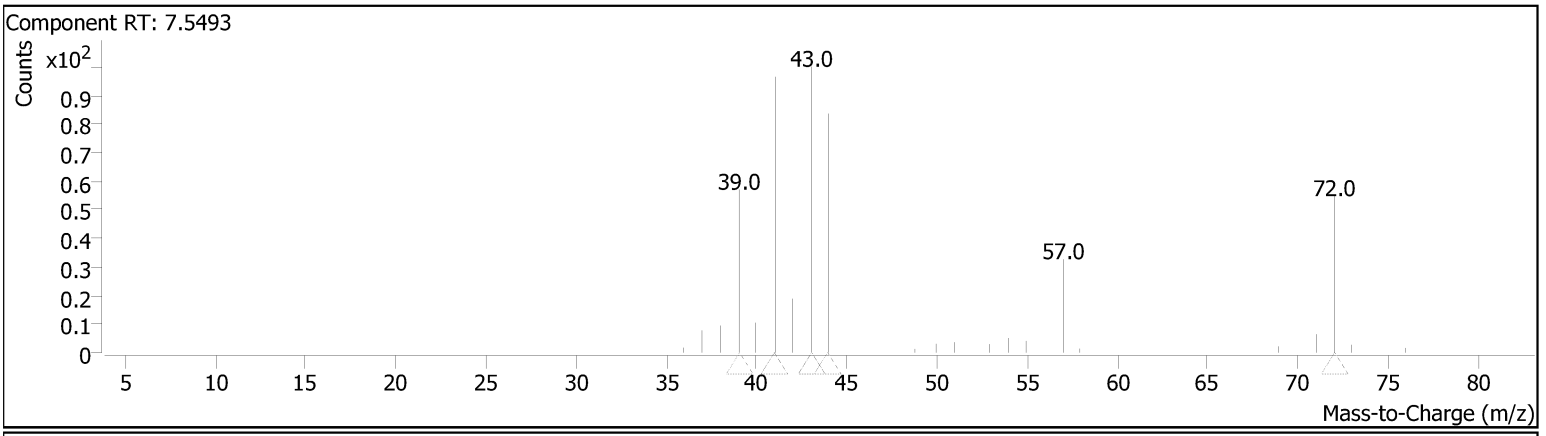



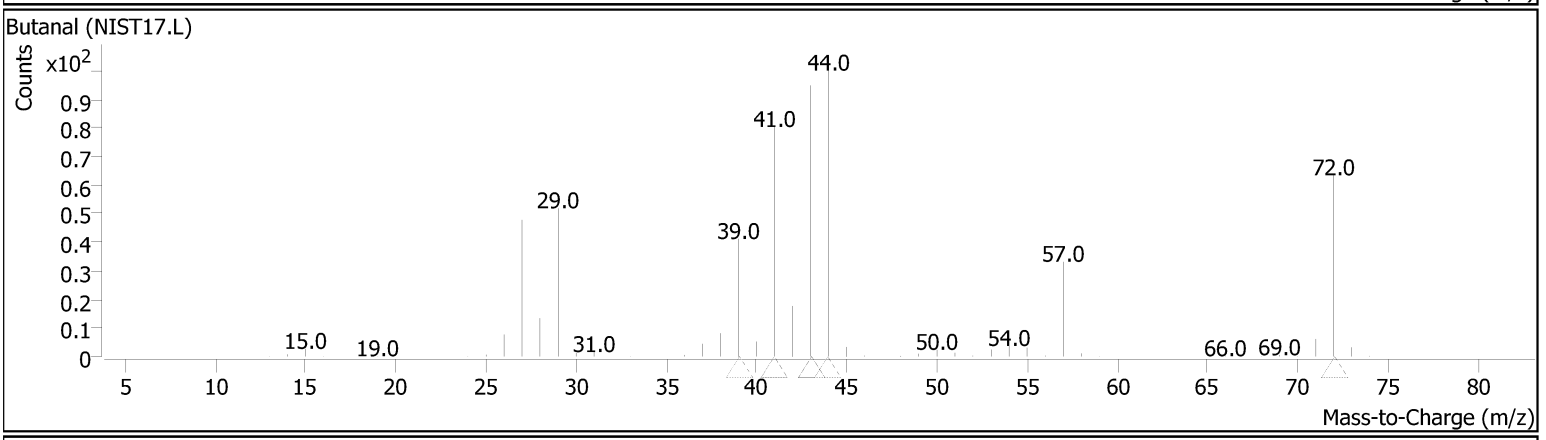



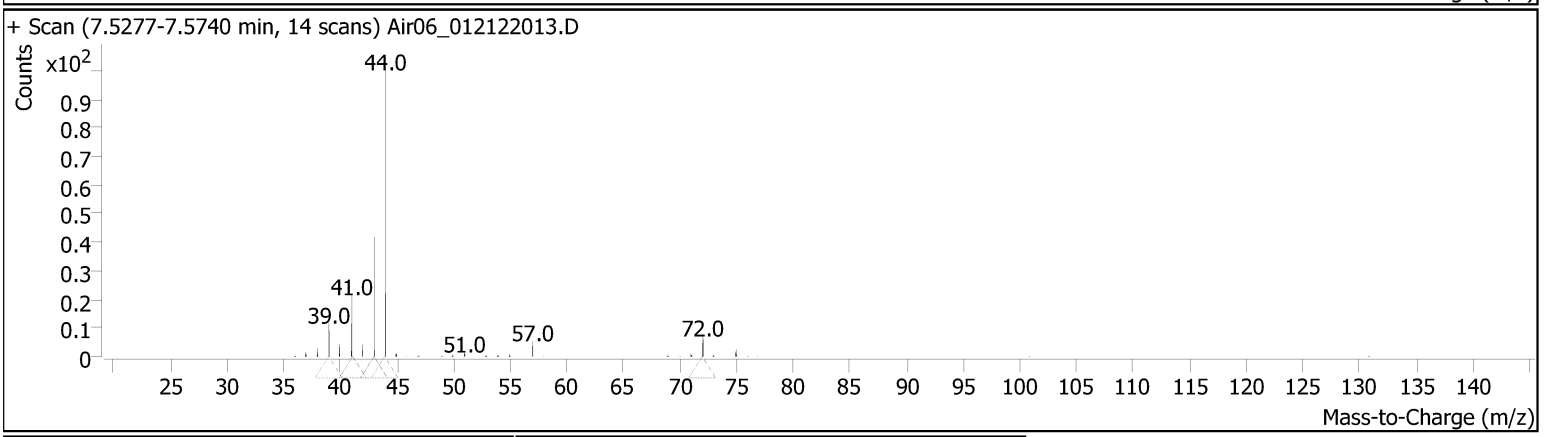



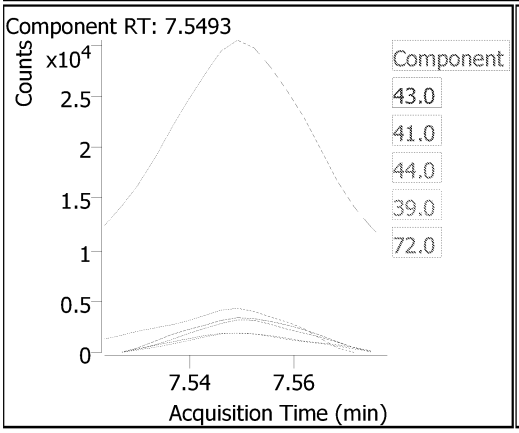



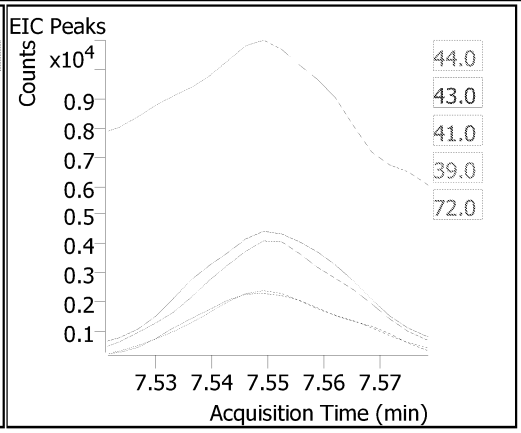
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.5493 | Butanal | 34211.8 | 97.5 | 123-72-8 | C4H8O | 0.133 |

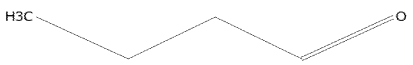


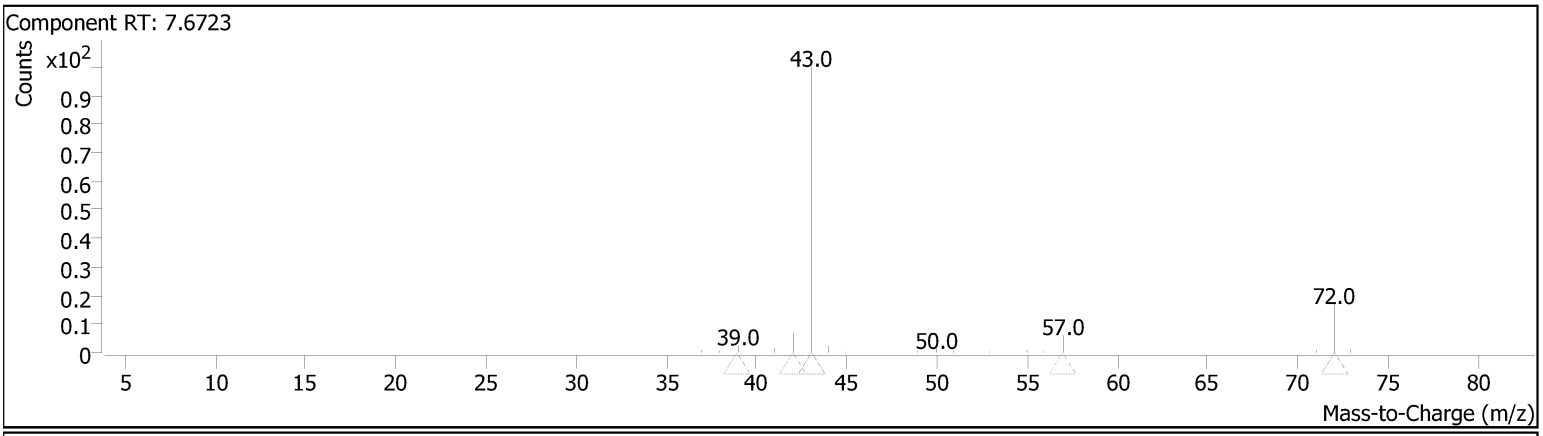



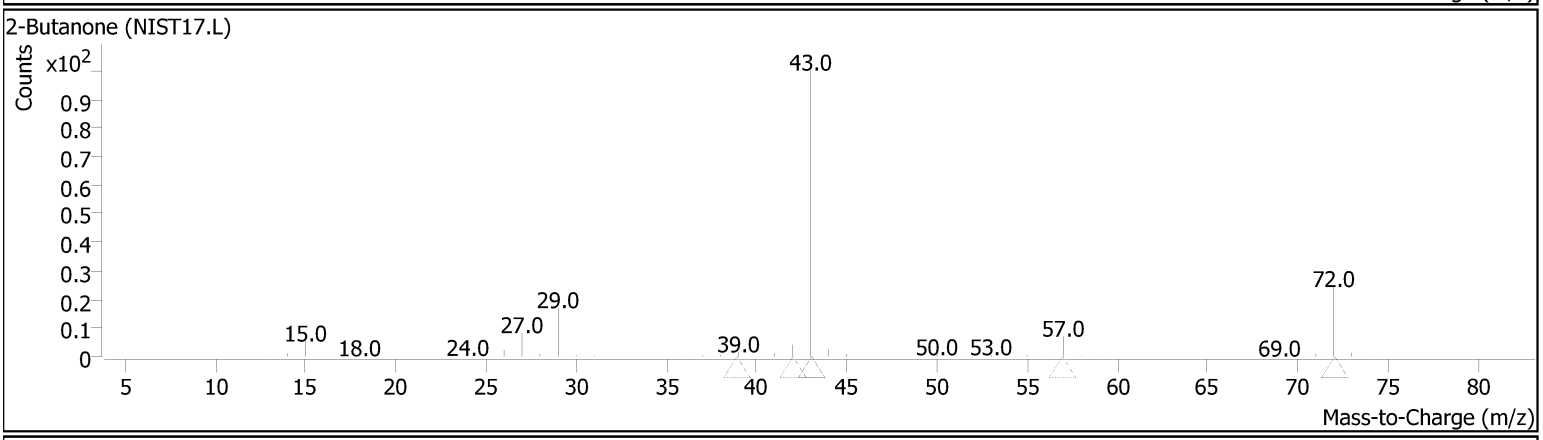



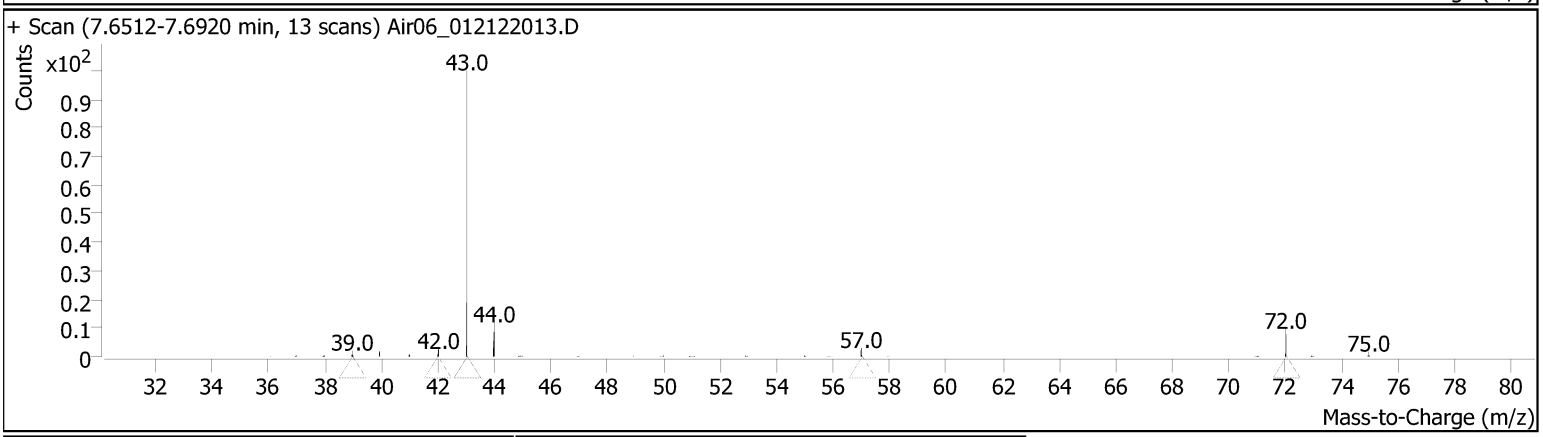



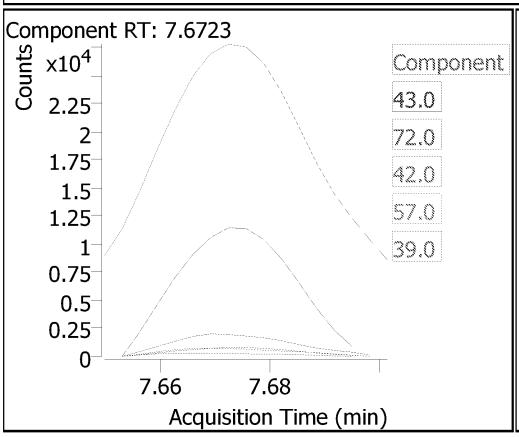



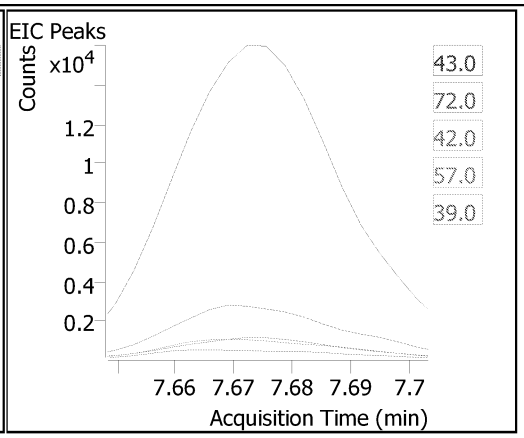
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.6723 | 2-Butanone | 34468.6 | 97.6 | 78-93-3 | C4H8O | 0.134 |

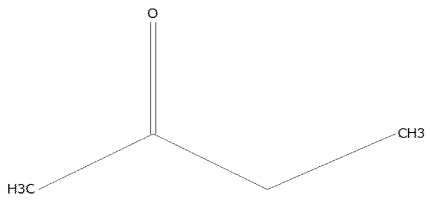


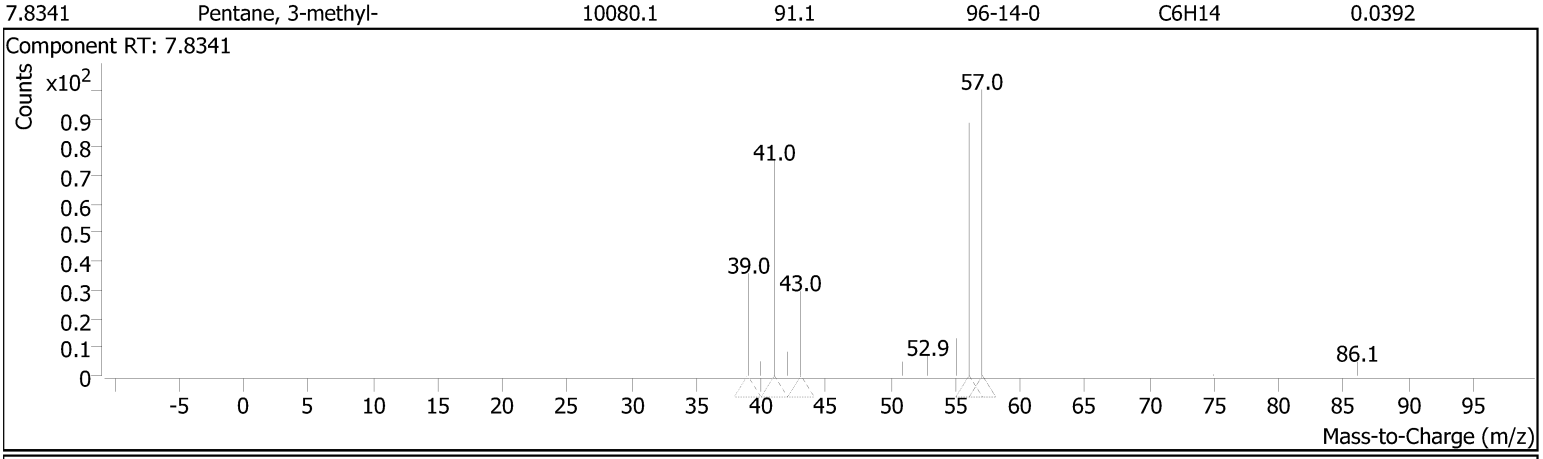



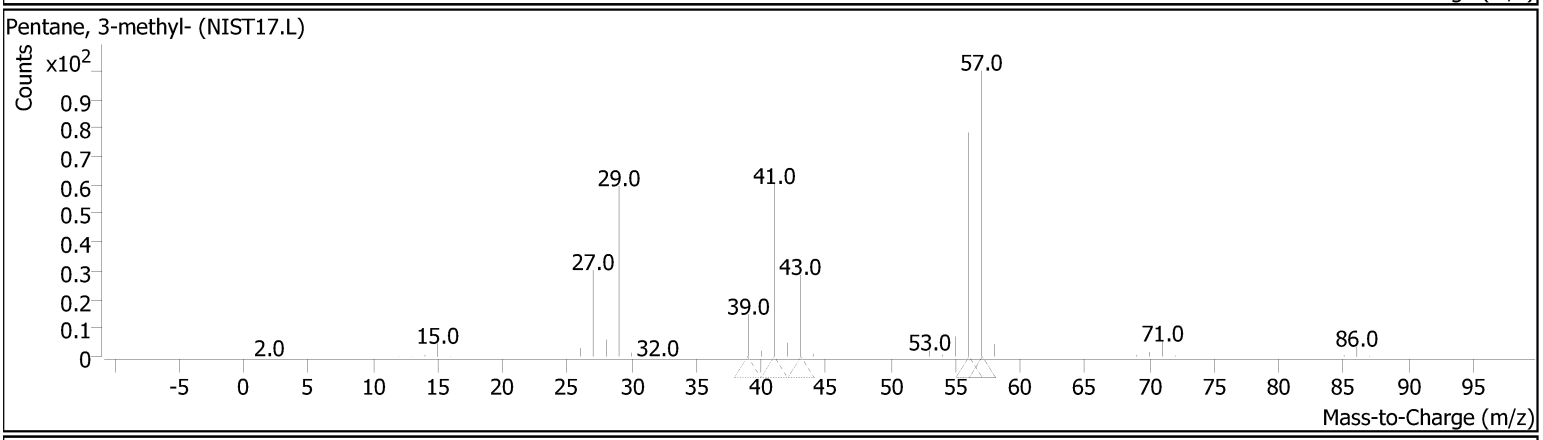



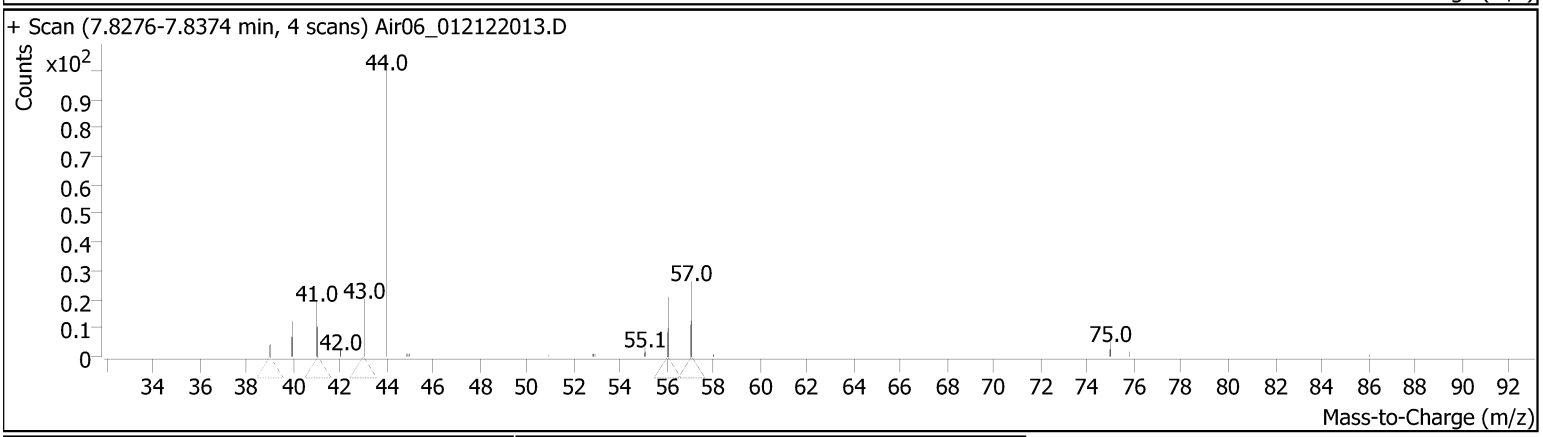



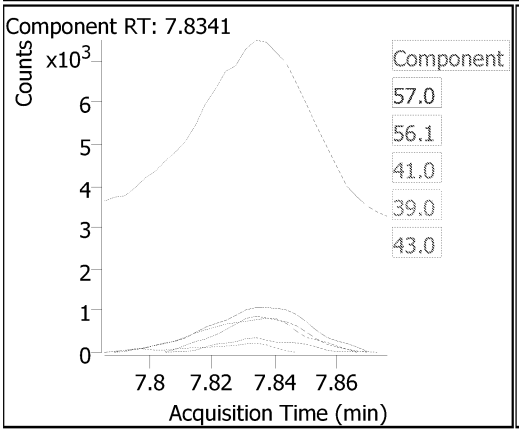



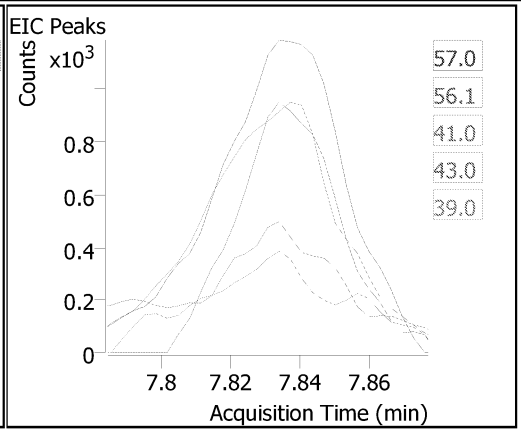
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.8341 | Pentane, 3-methyl- | 10080.1 | 91.1 | 96-14-0 | C6H14 | 0.0392 |

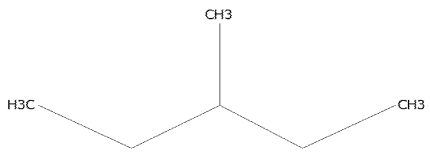


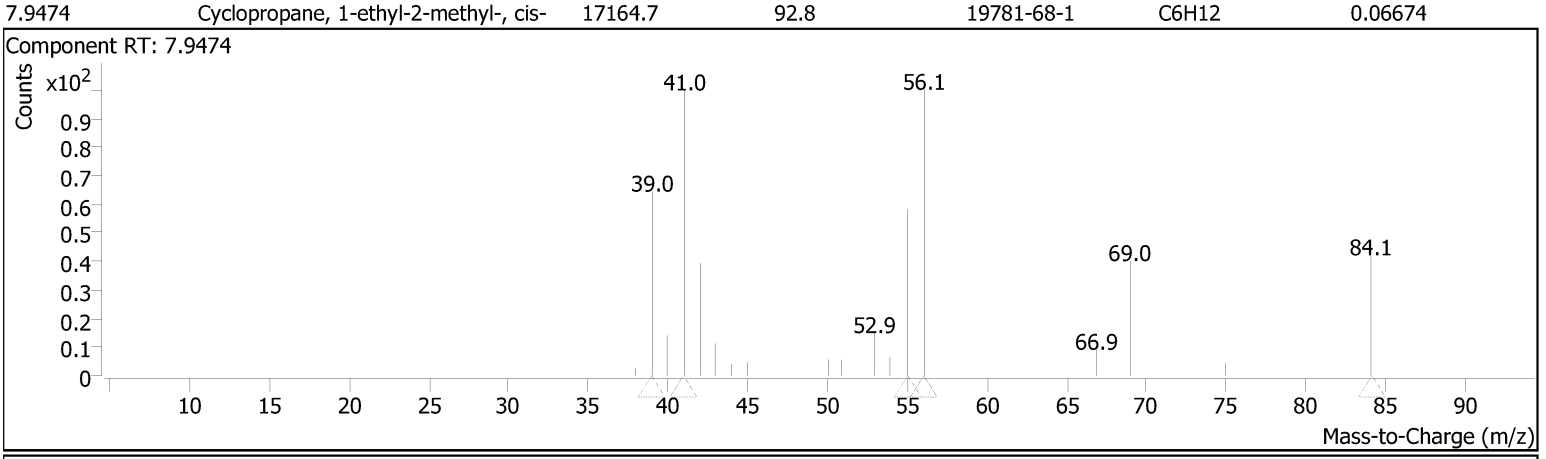



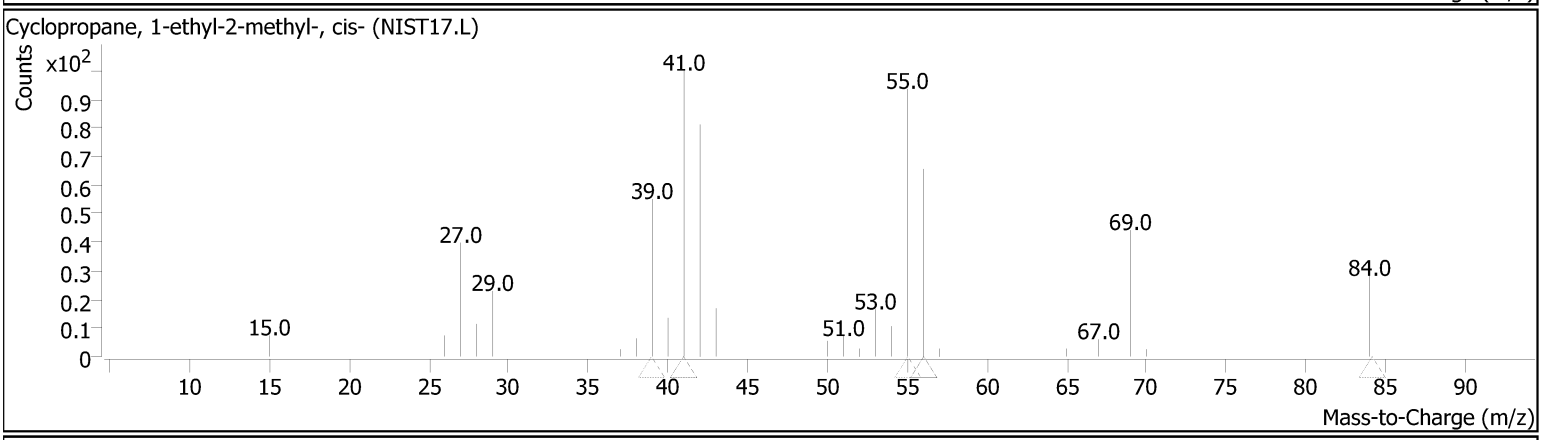



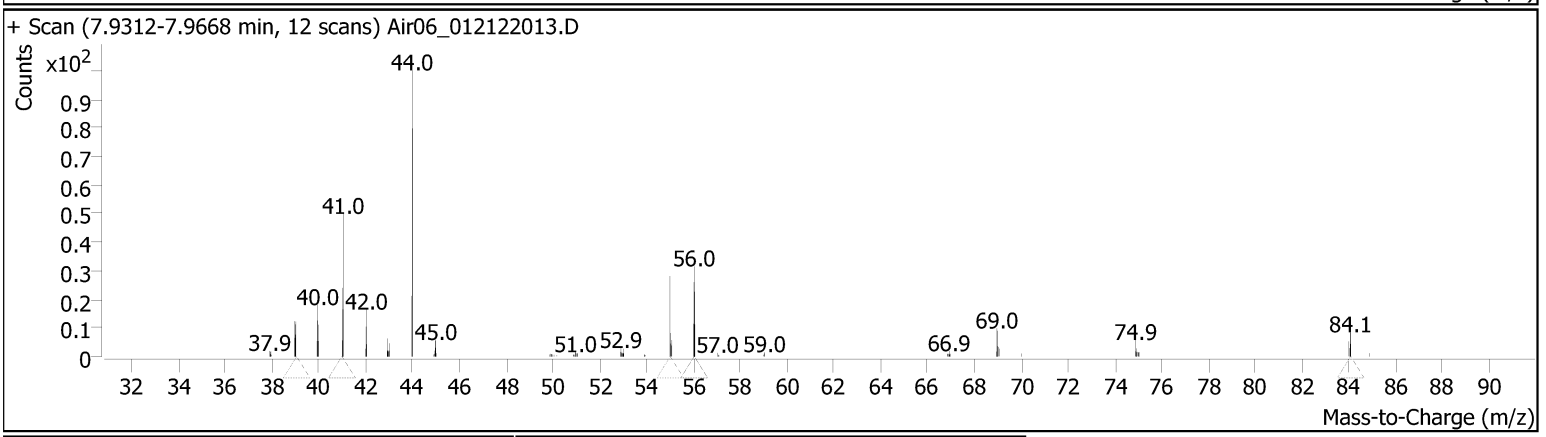



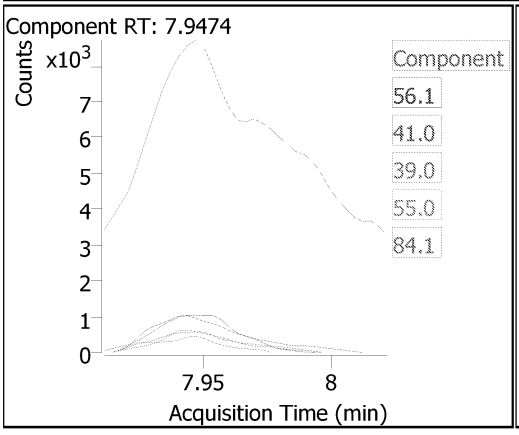



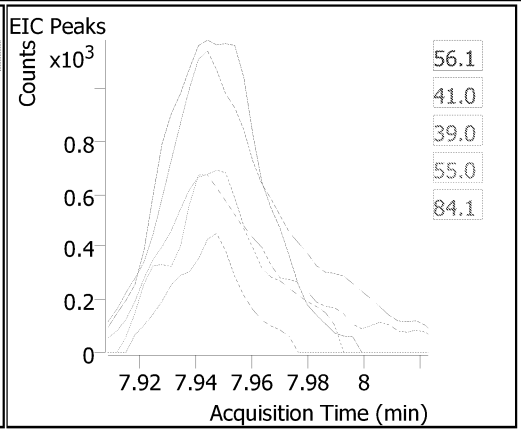
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.9474 | Cyclopropane, 1-ethyl-2-methyl-, cis- | 17164.7 | 92.8 | 19781-68-1 | C6H12 | 0.06674 |

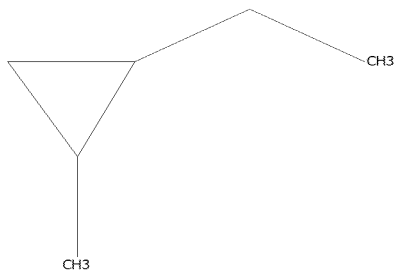


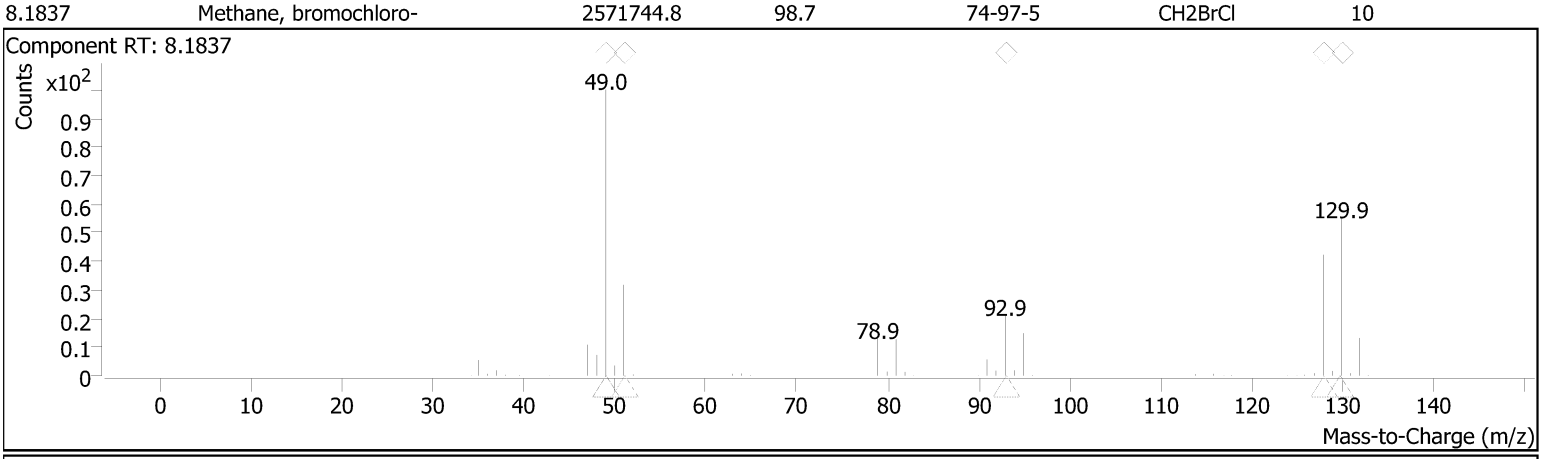



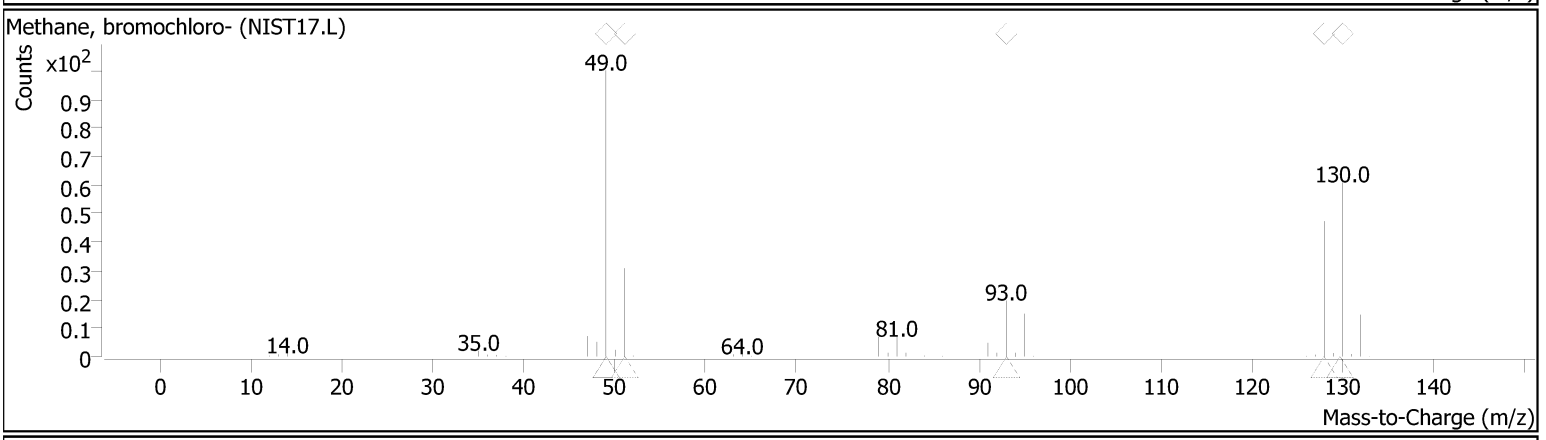



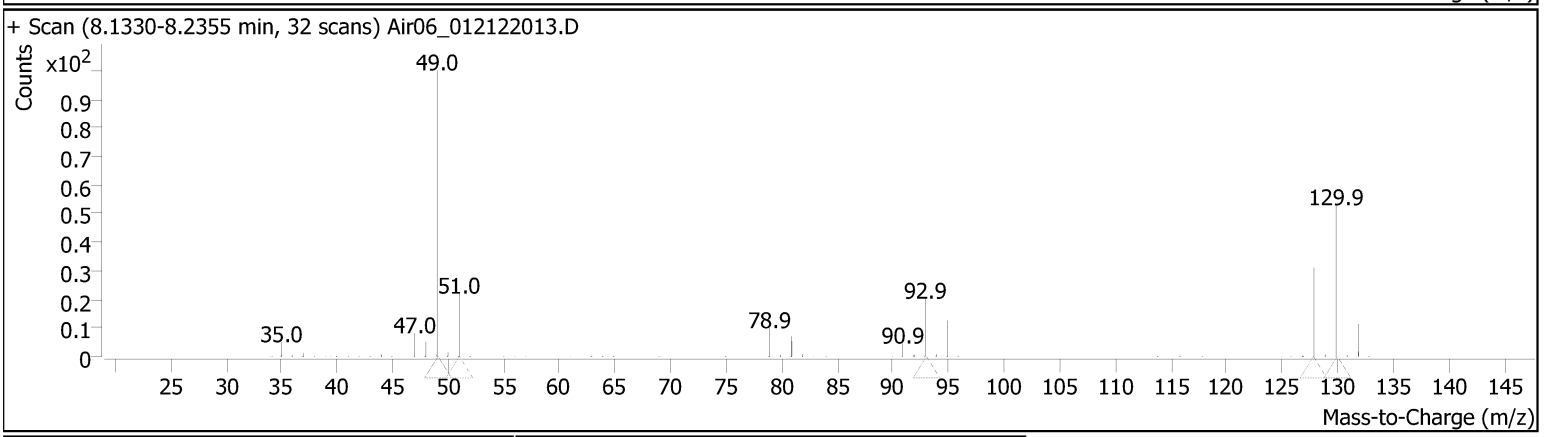



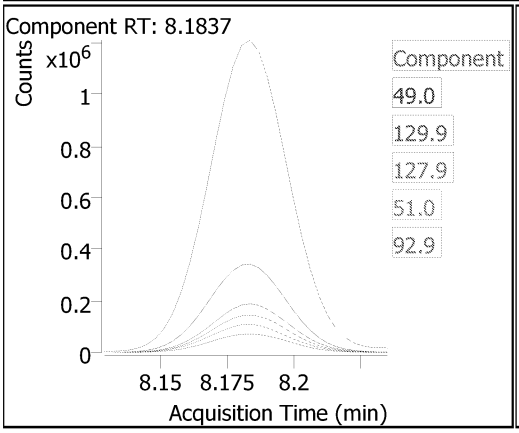



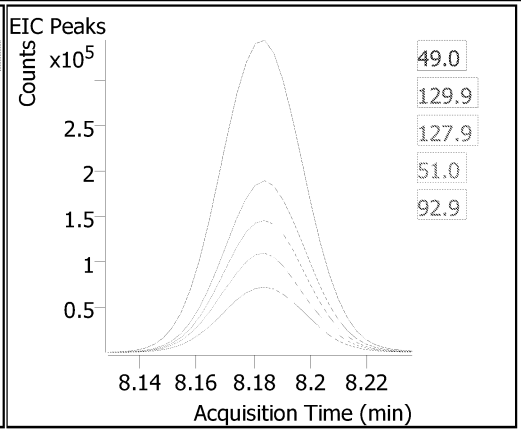
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.1837 | Methane, bromochloro- | 2571744.8 | 98.7 | 74-97-5 | CH2BrCl | 10 |

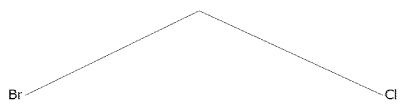


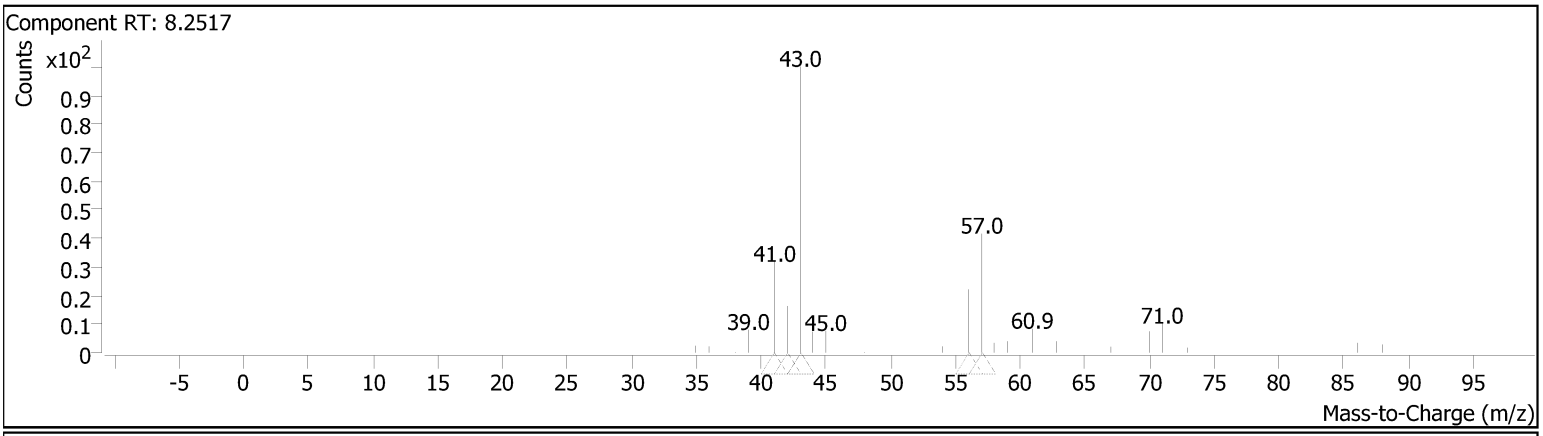



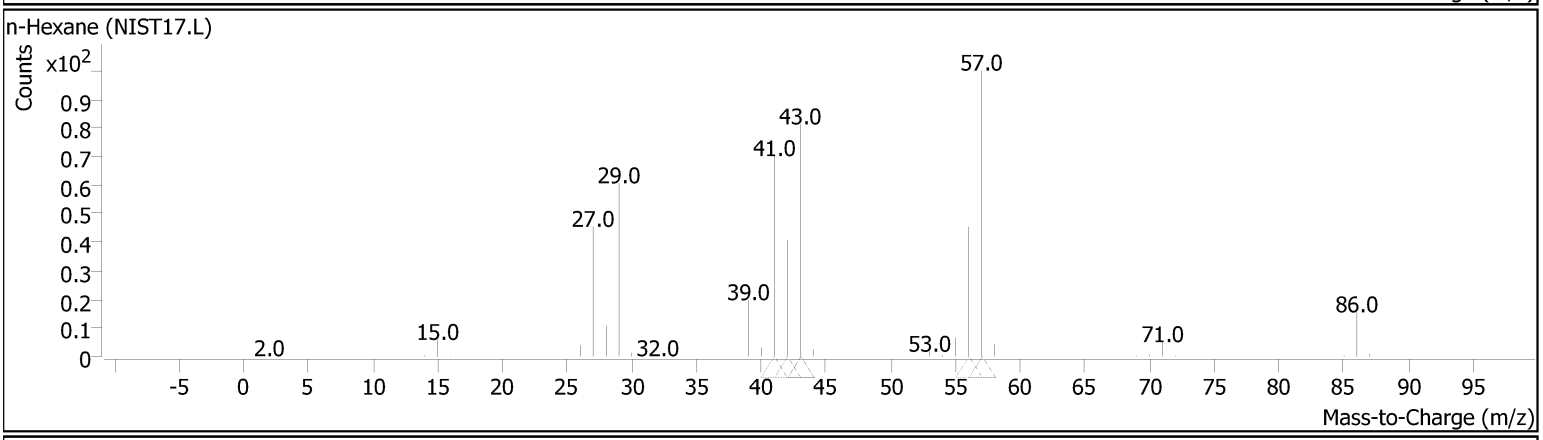



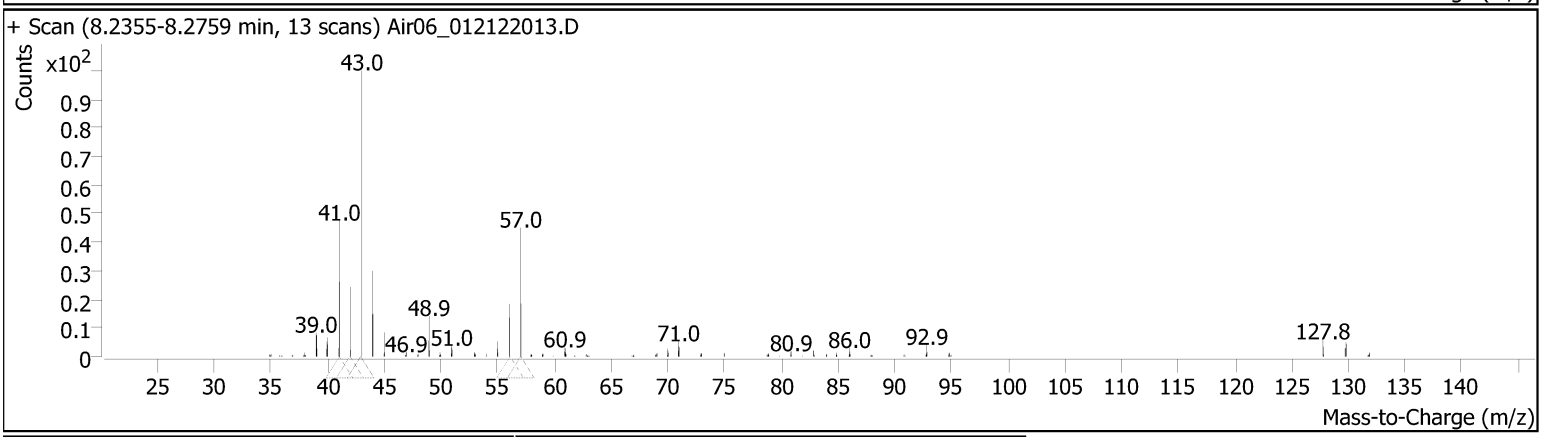



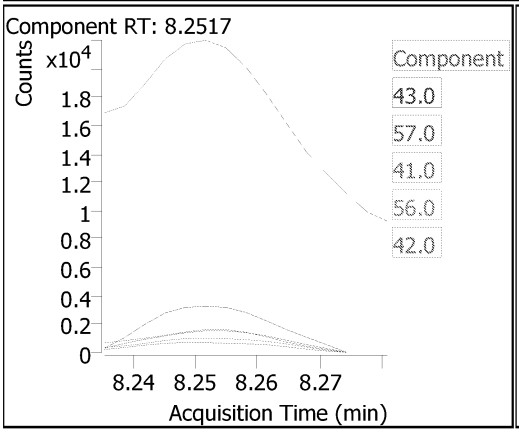



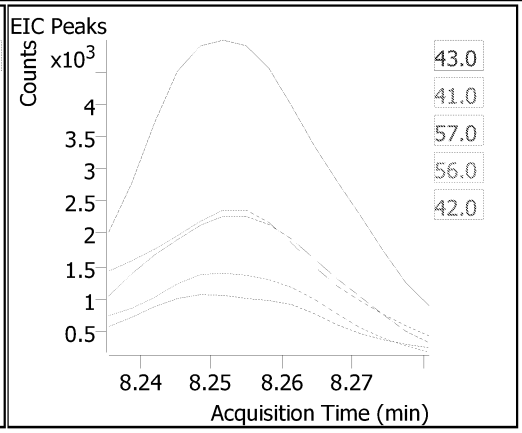
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.2517 | n-Hexane | 37765.4 | 78.5 | 110-54-3 | C6H14 | 0.1468 |



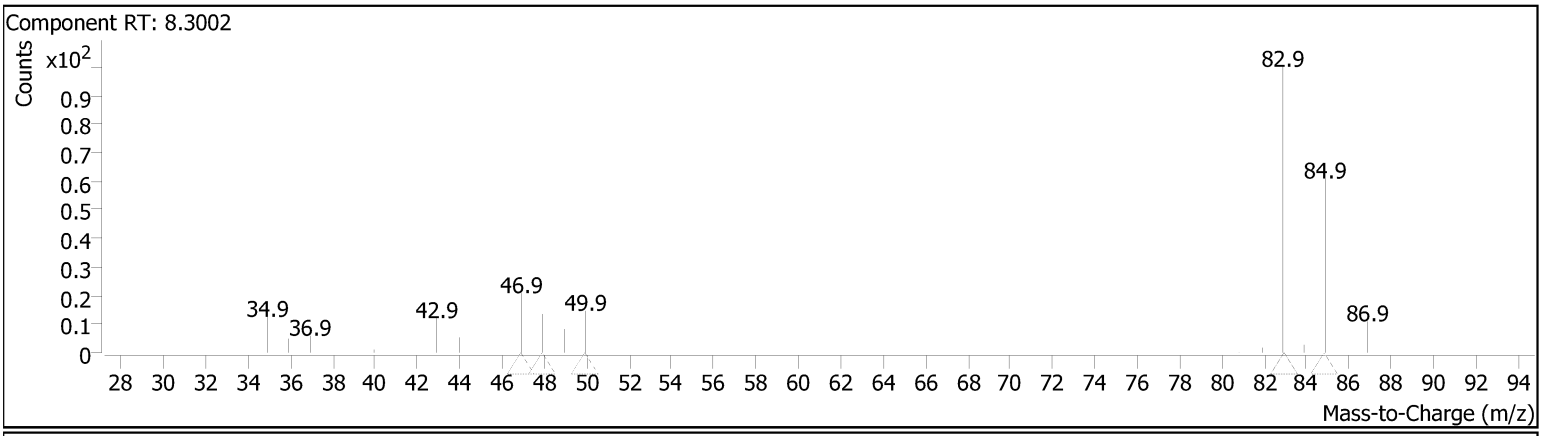



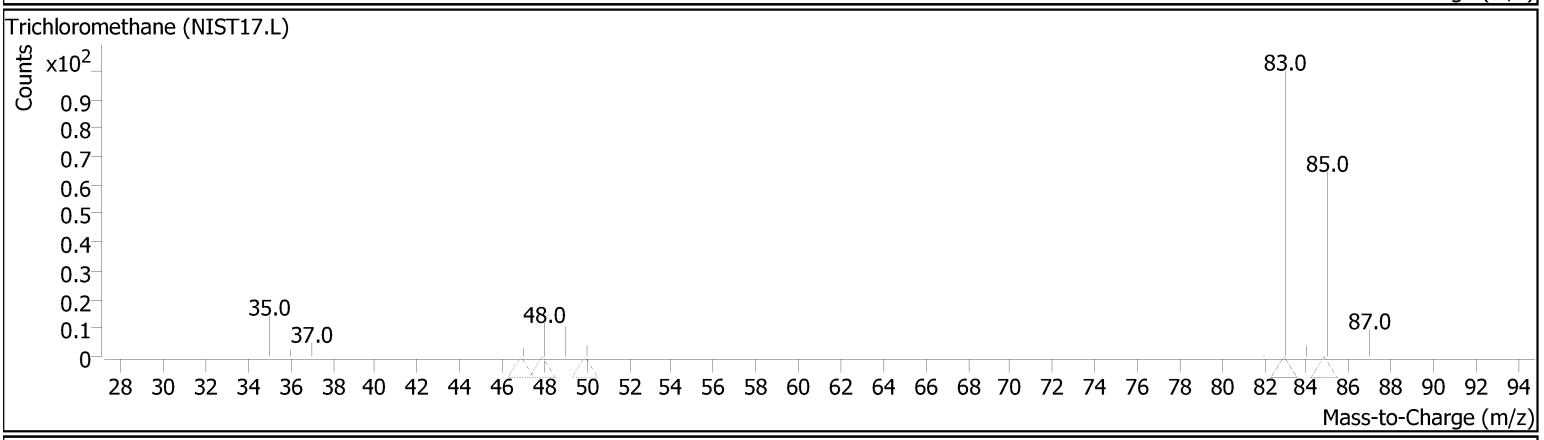



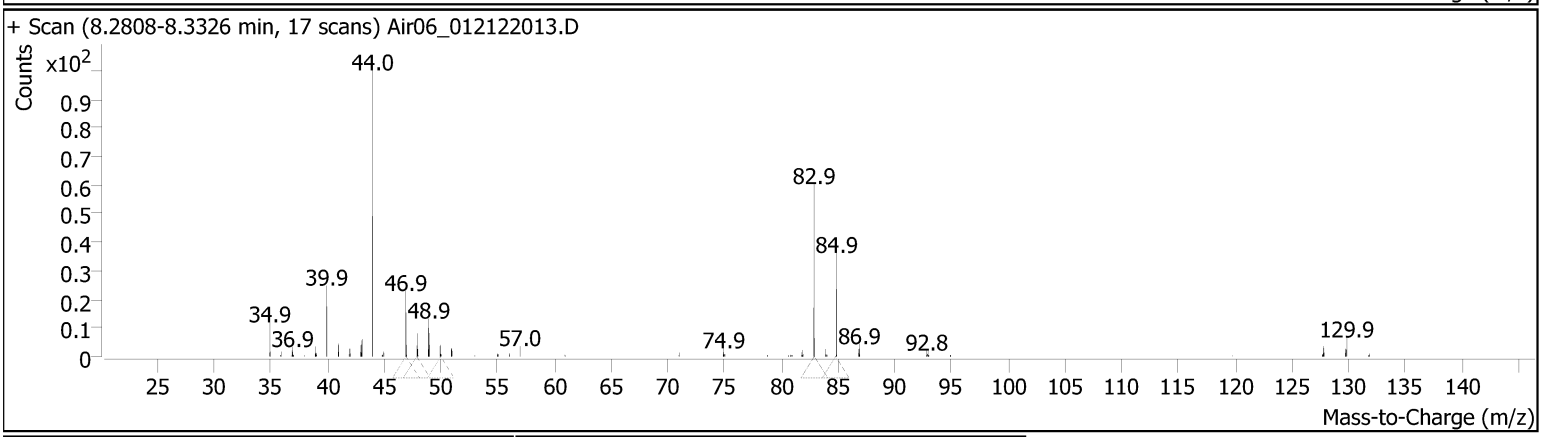



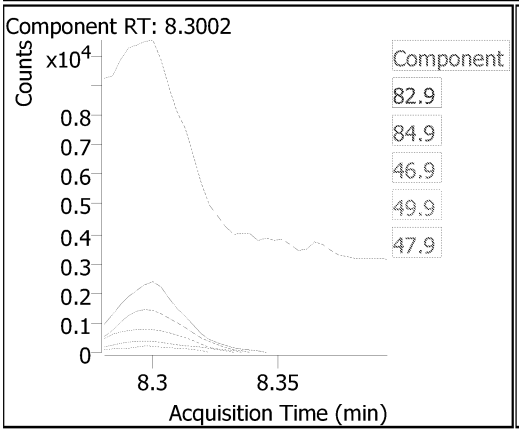


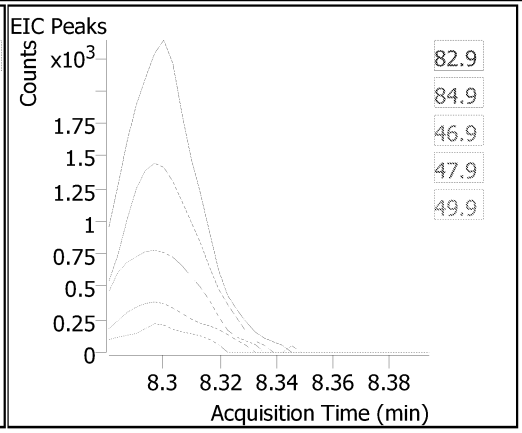

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.3002 | Trichloromethane | 17236.1 | 90.5 | 67-66-3 | CHCl3 | 0.06702 |

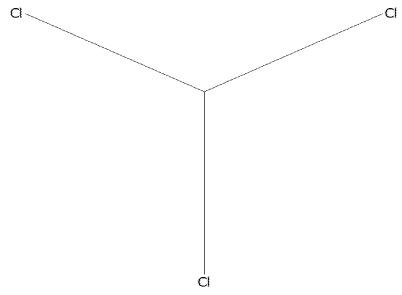


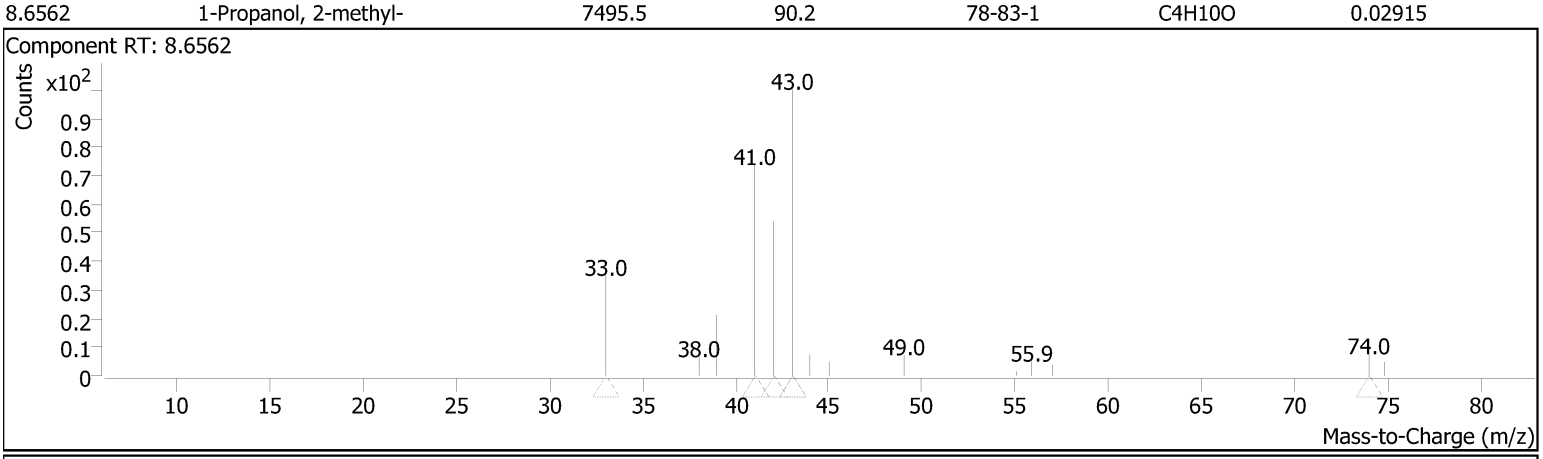



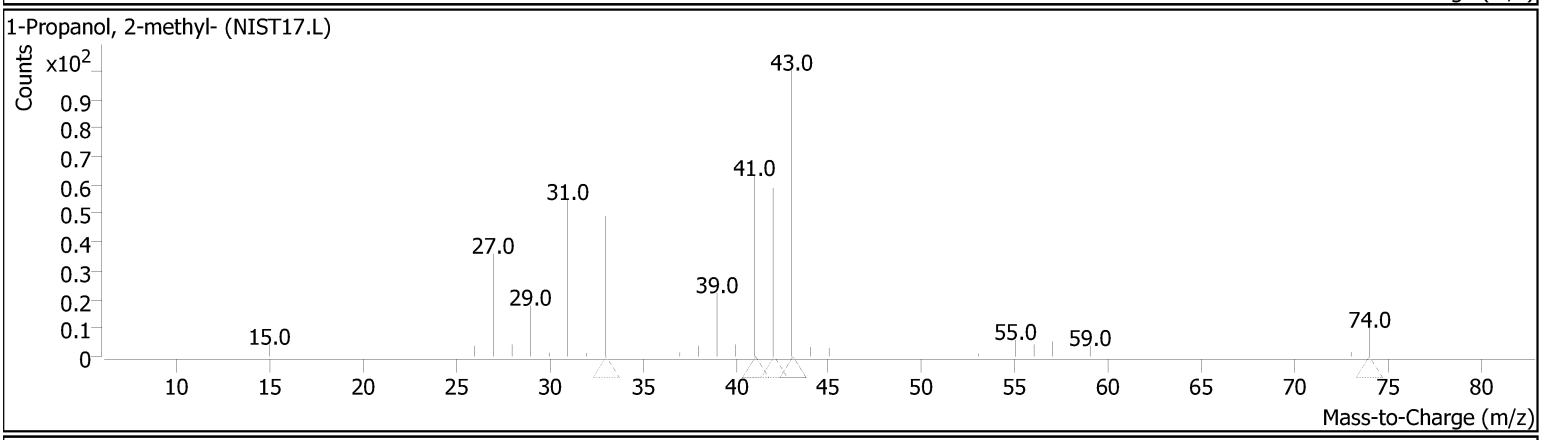



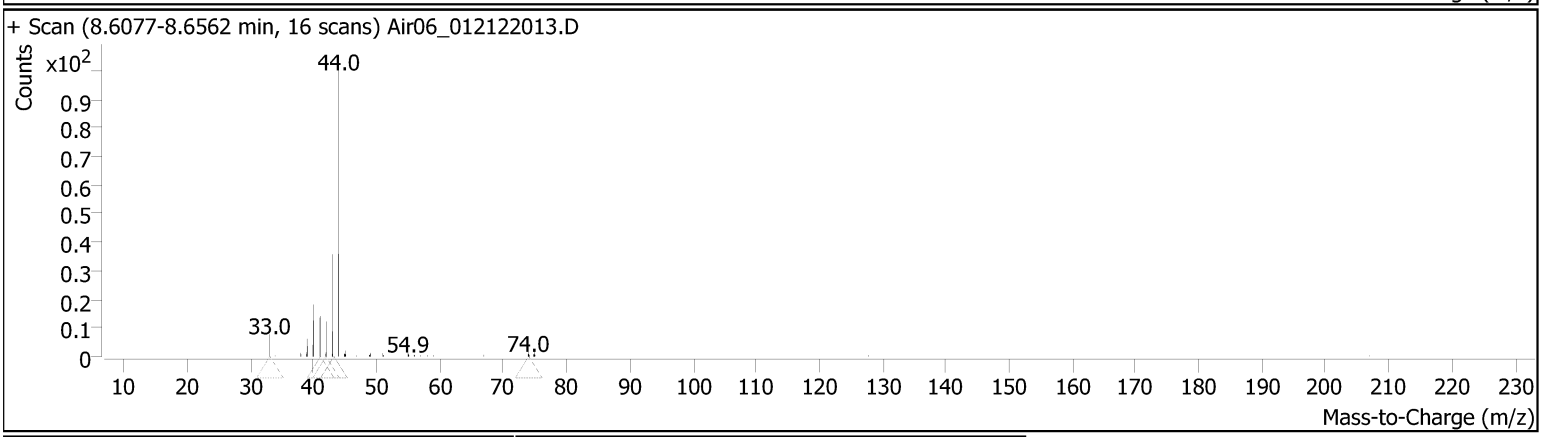



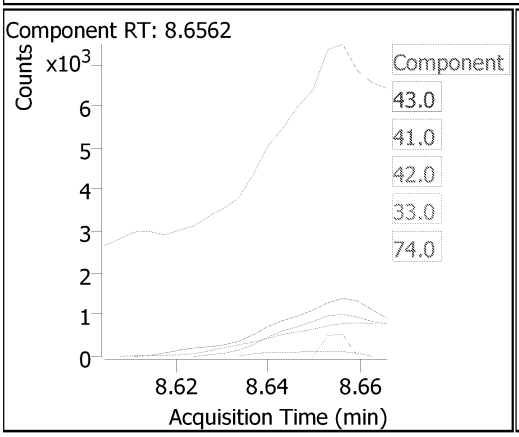



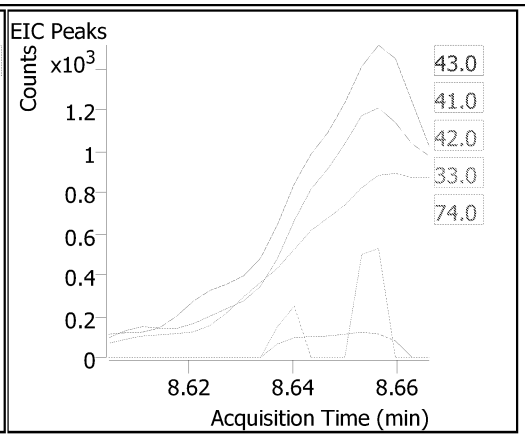
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.6562 | 1-Propanol, 2-methyl- | 7495.5 | 90.2 | 78-83-1 | C4H10O | 0.02915 |

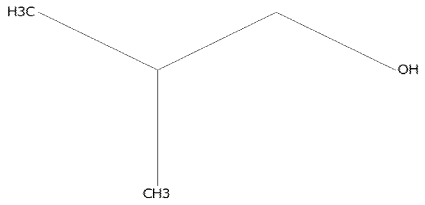


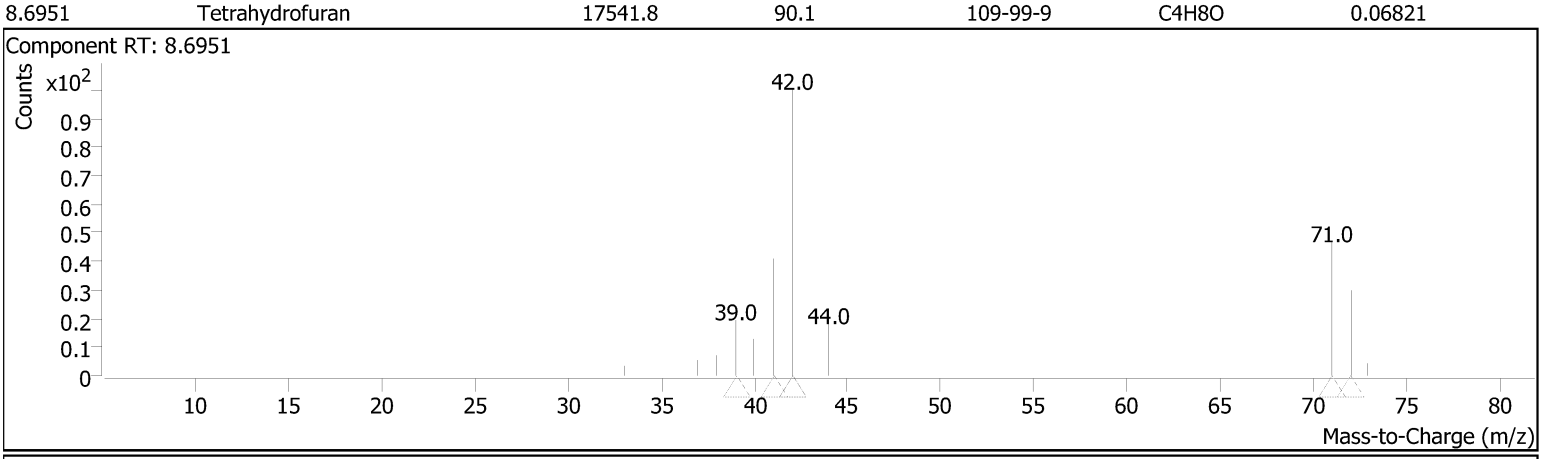



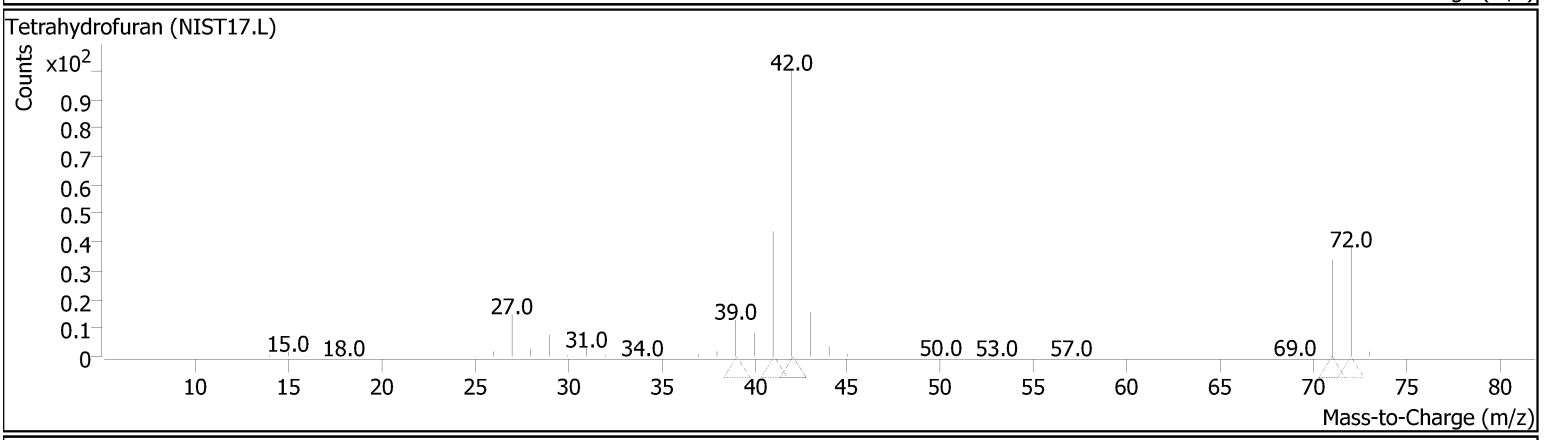



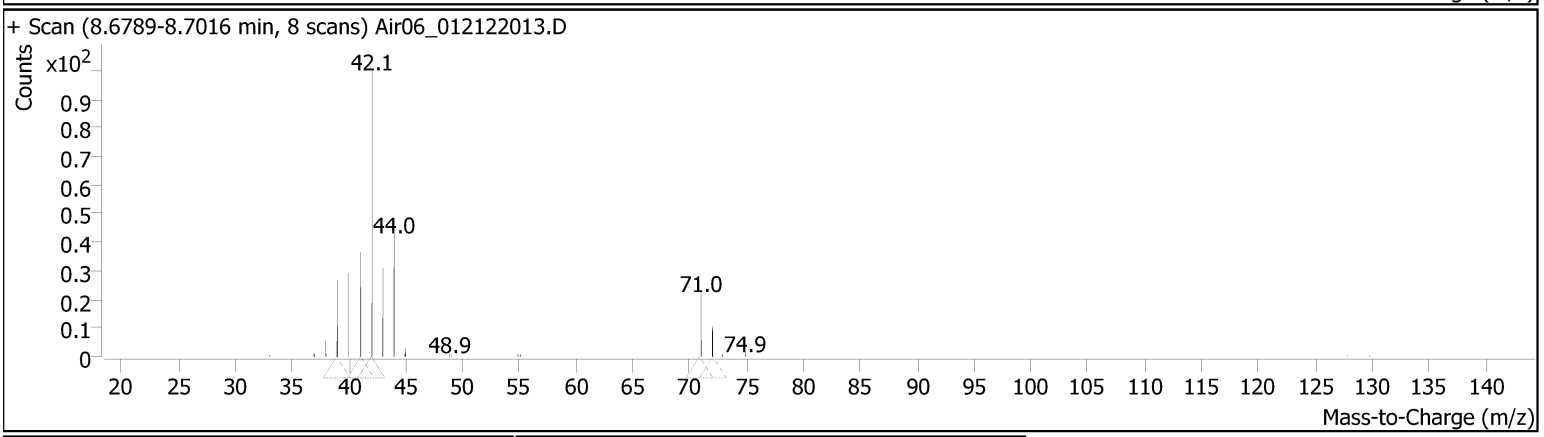



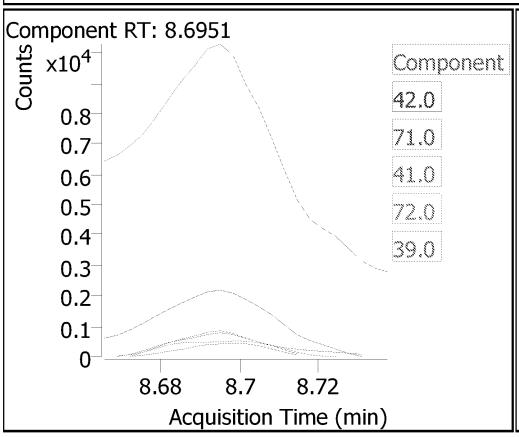



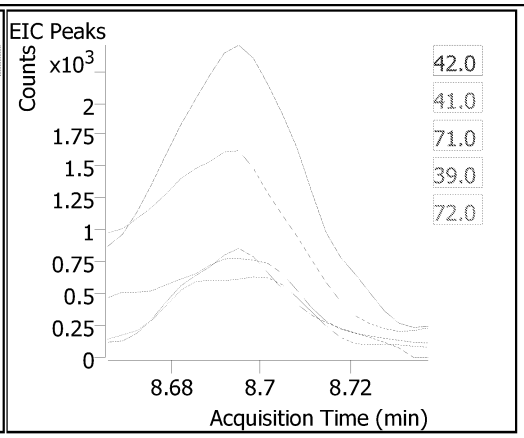
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.6951 | Tetrahydrofuran | 17541.8 | 90.1 | 109-99-9 | C4H8O | 0.06821 |

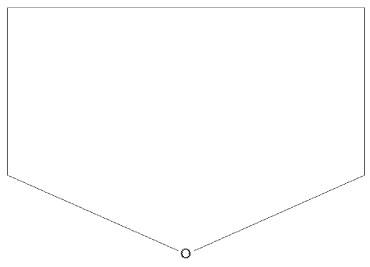


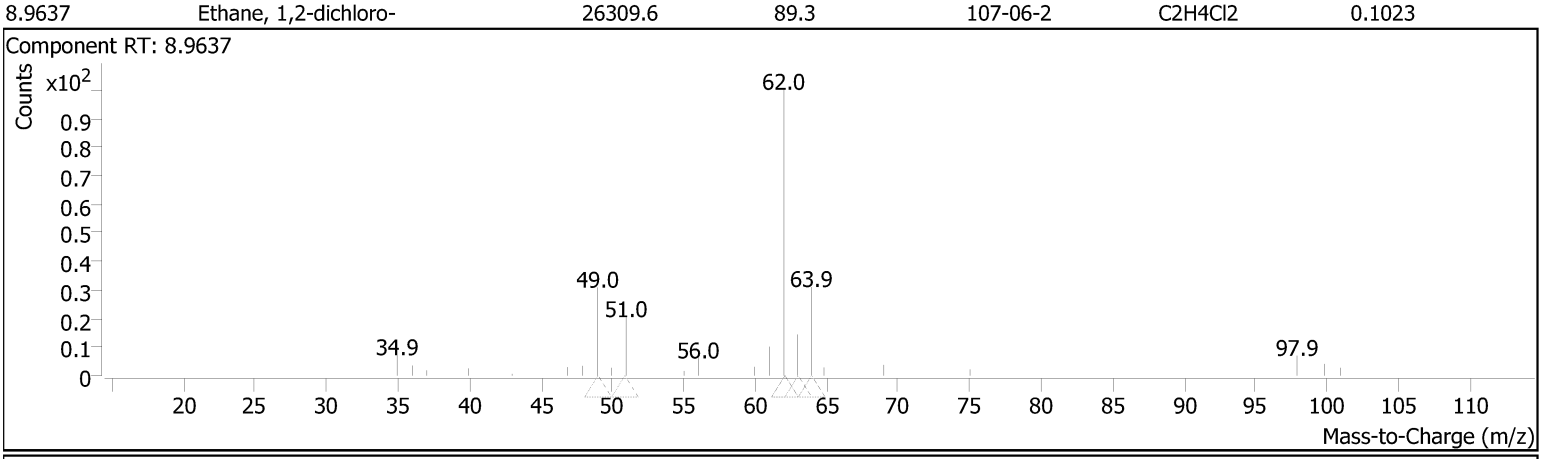



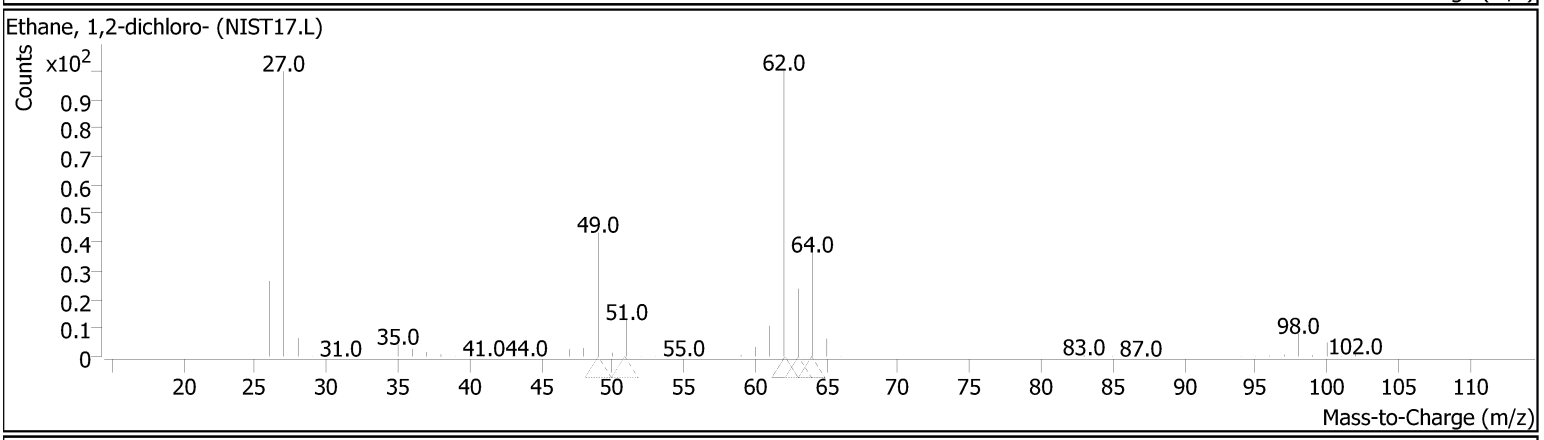



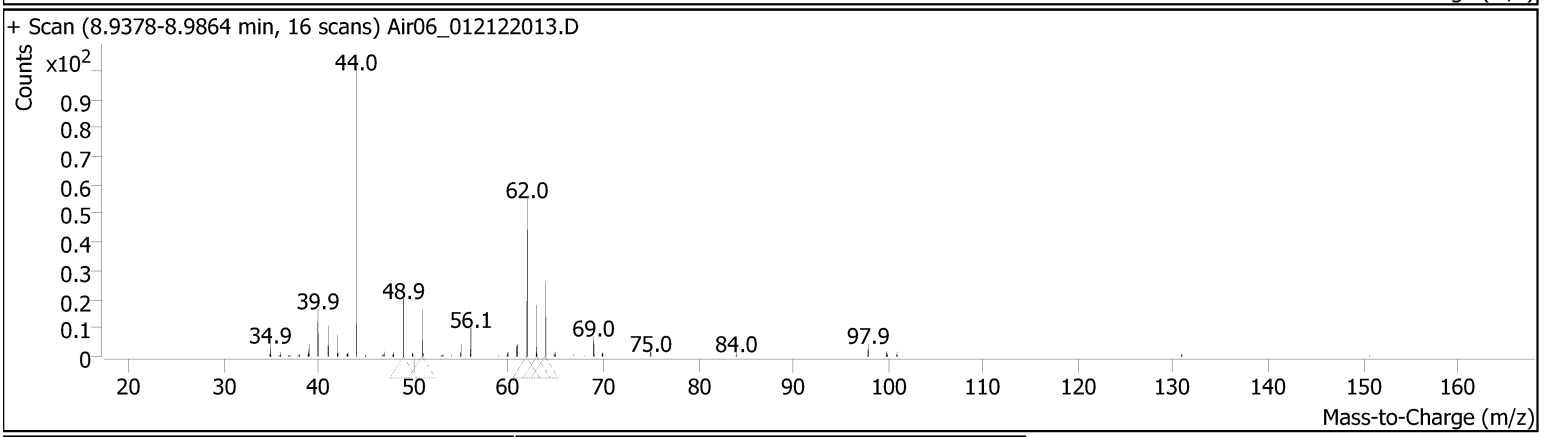



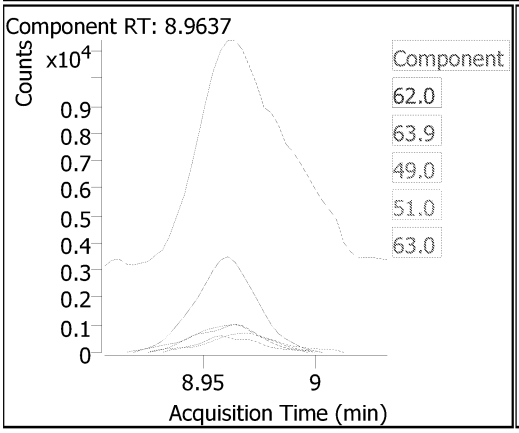



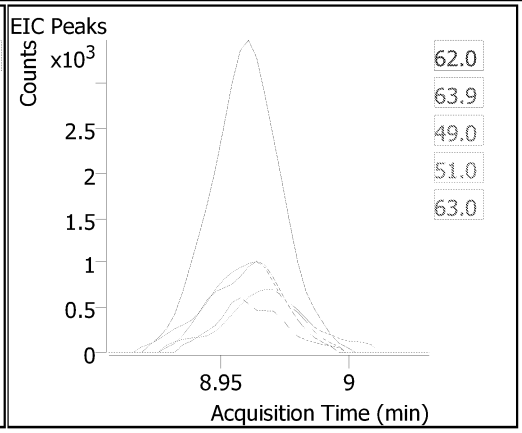
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.9637 | Ethane, 1,2-dichloro- | 26309.6 | 89.3 | 107-06-2 | C2H4Cl2 | 0.1023 |



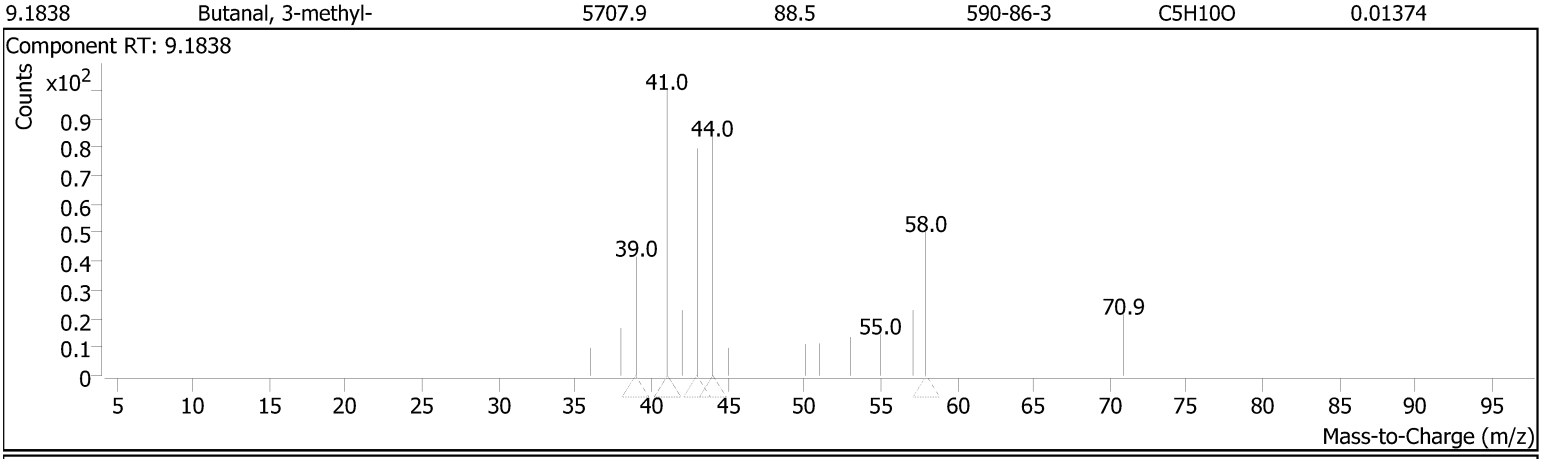



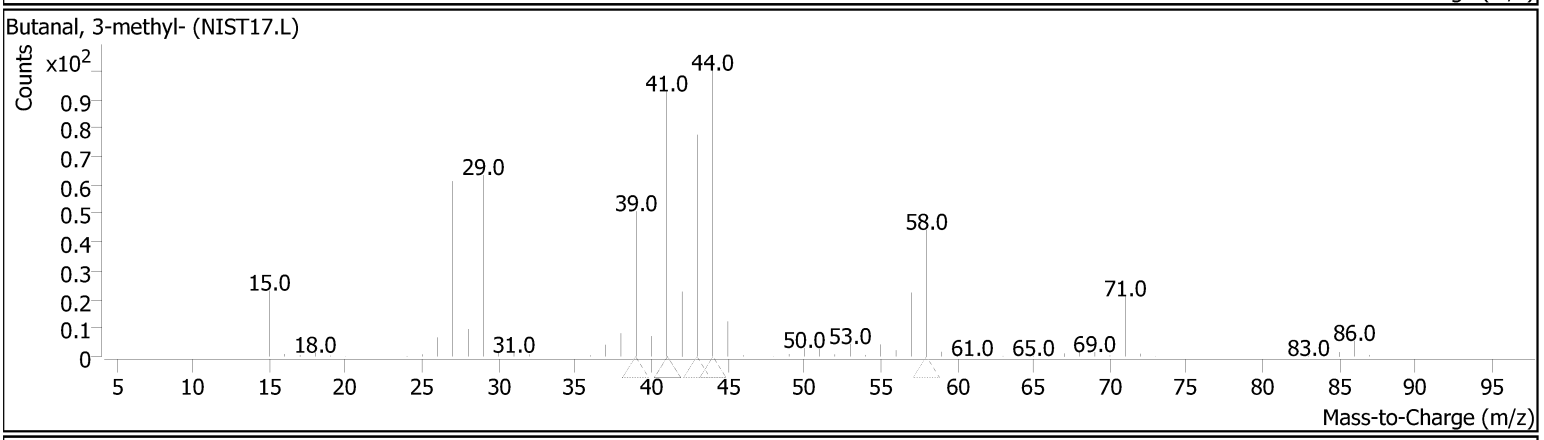



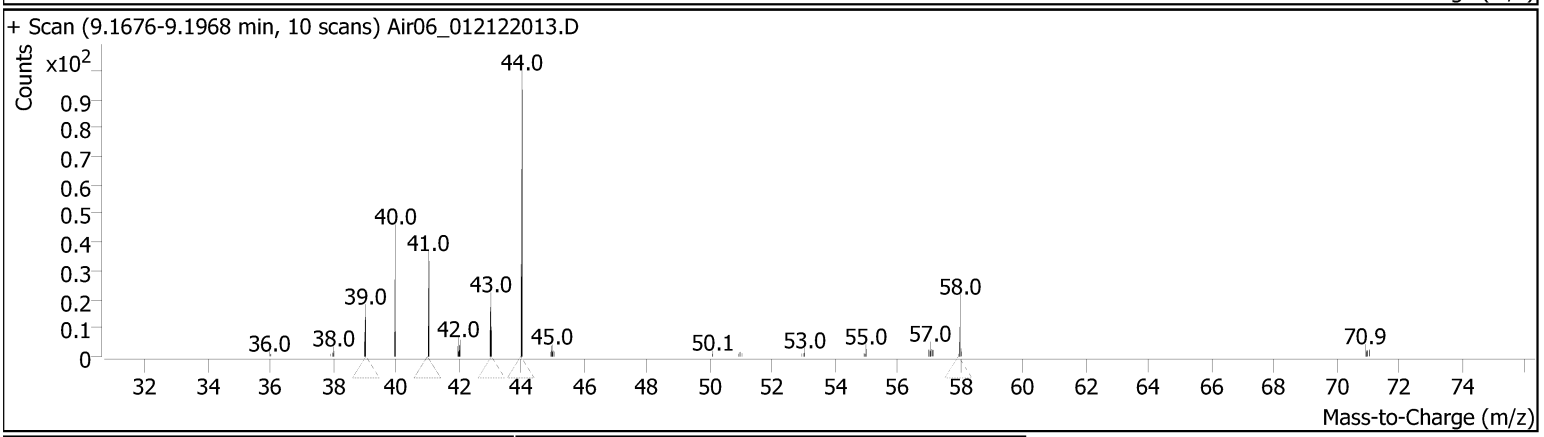



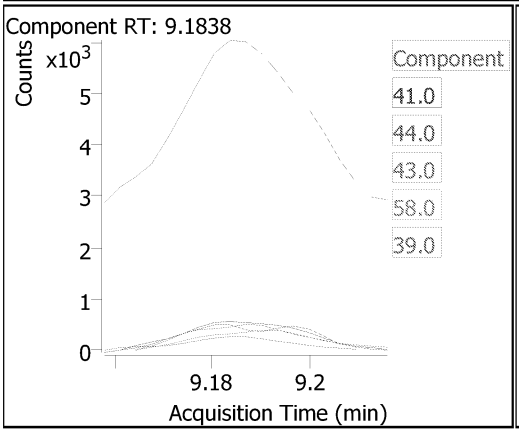


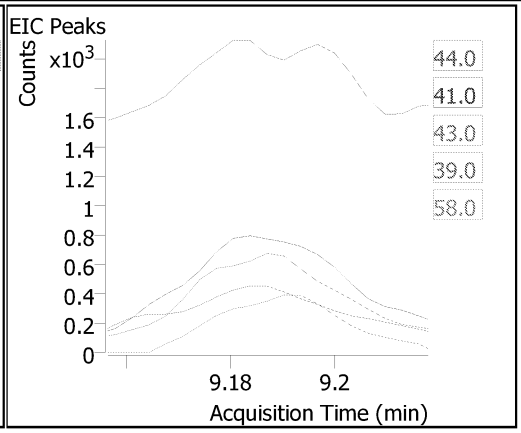

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.1838 | Butanal, 3-methyl- | 5707.9 | 88.5 | 590-86-3 | C5H10O | 0.01374 |

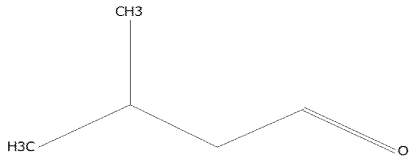


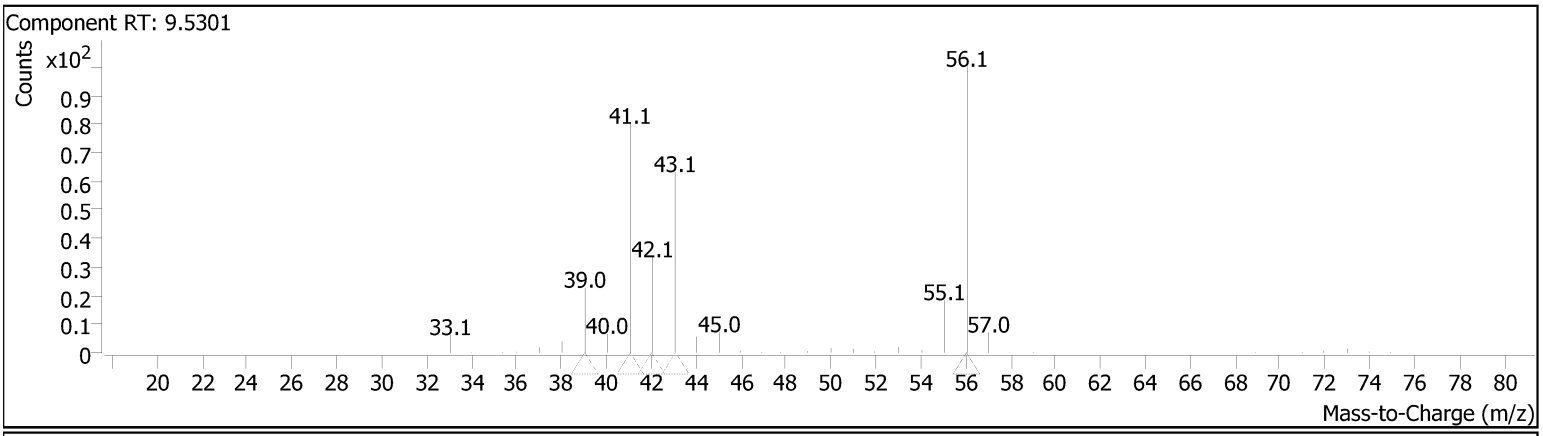



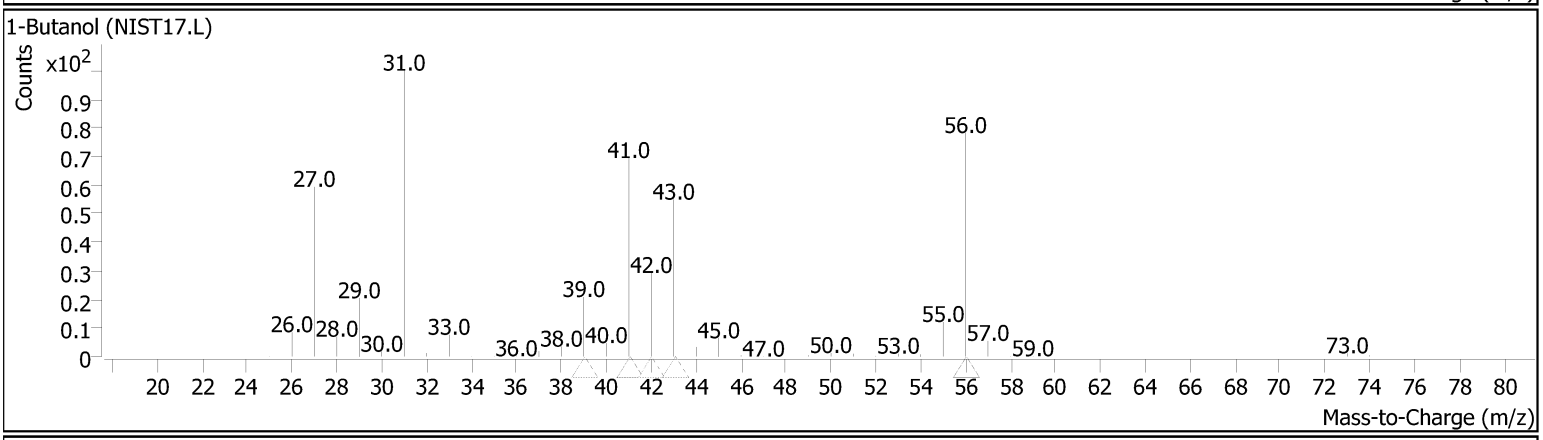



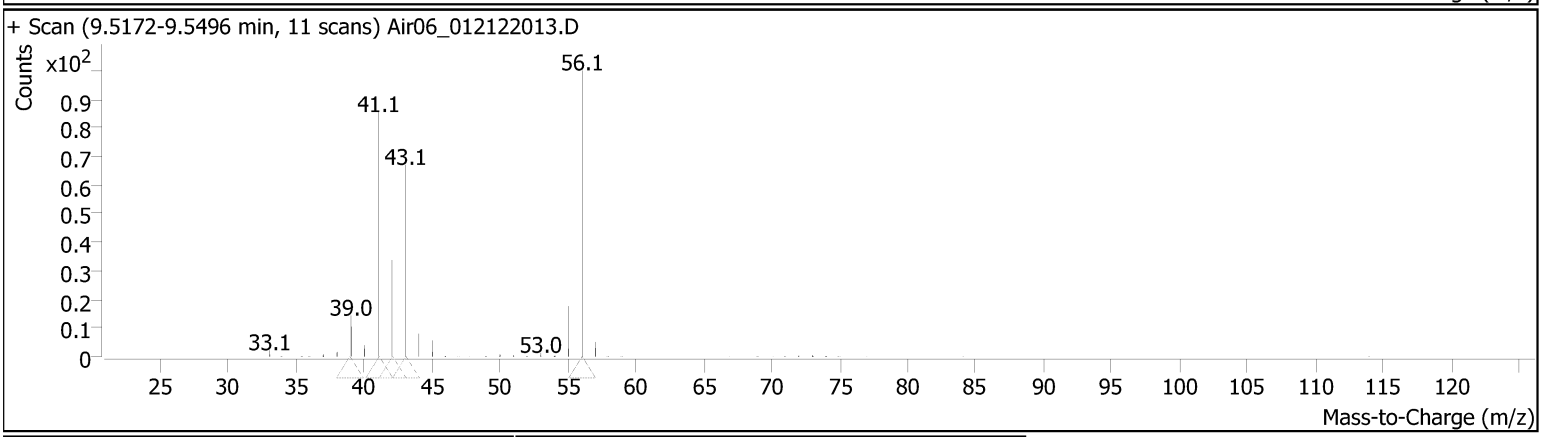



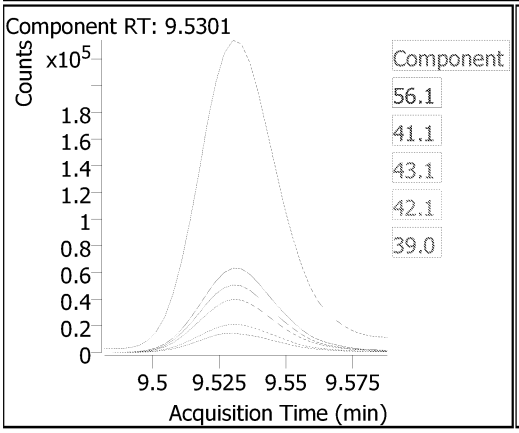



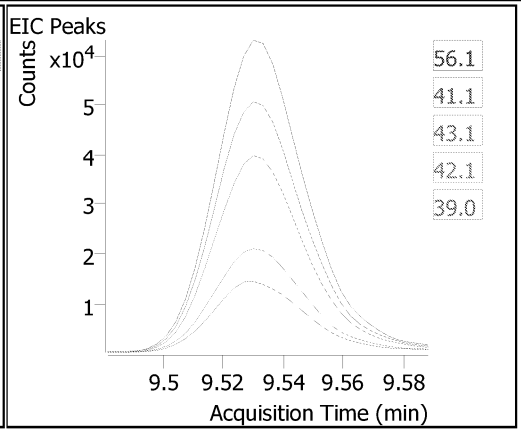
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.5301 | 1-Butanol | 497946.0 | 99.2 | 71-36-3 | C4H10O | 1.198 |

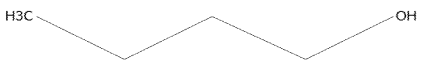


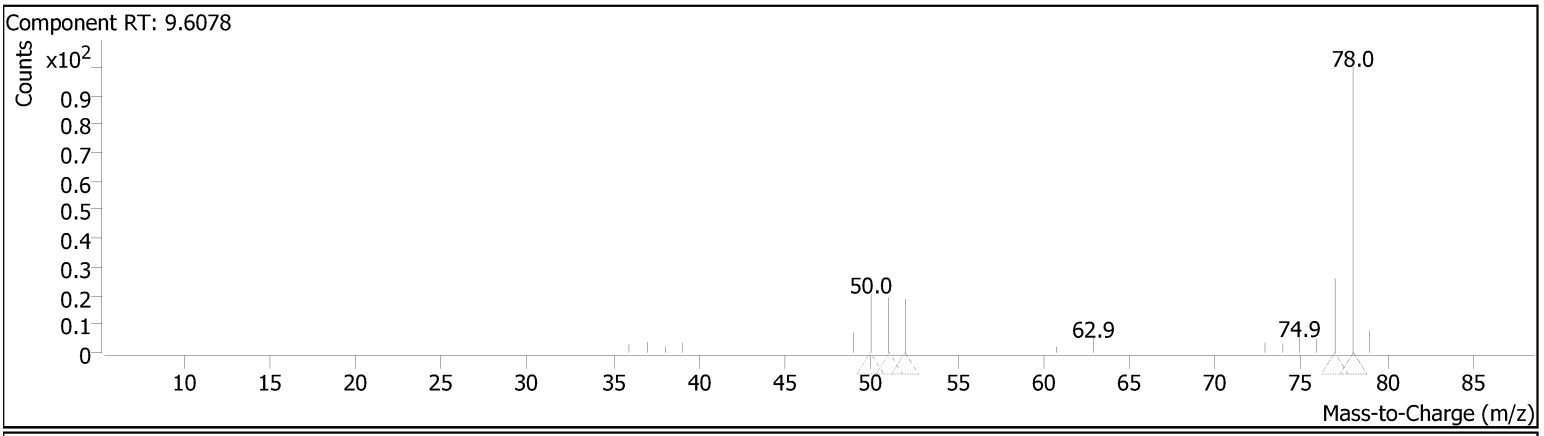



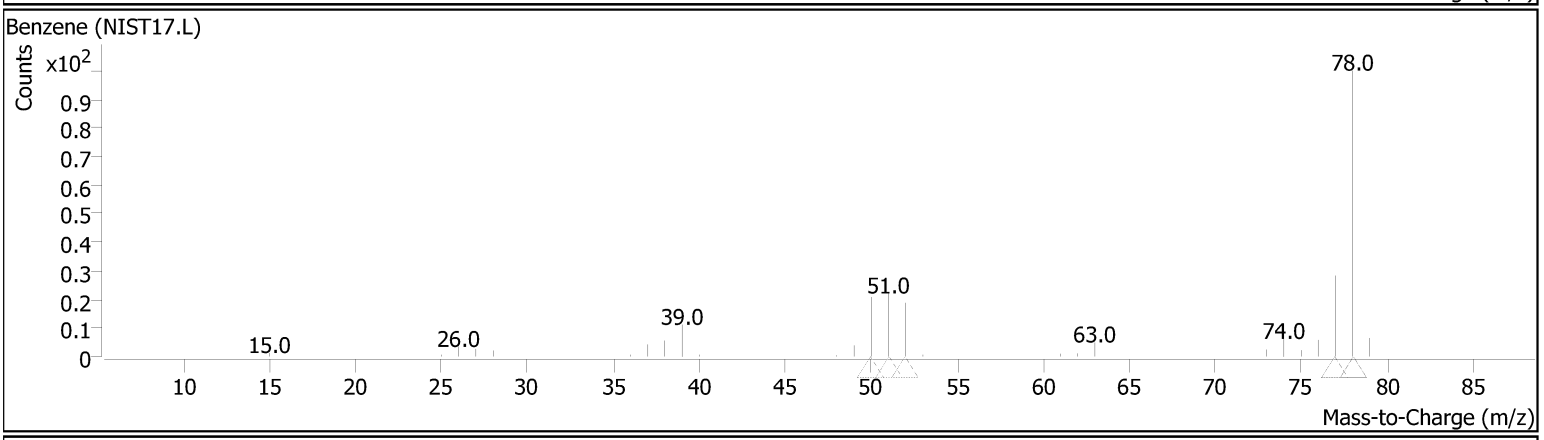



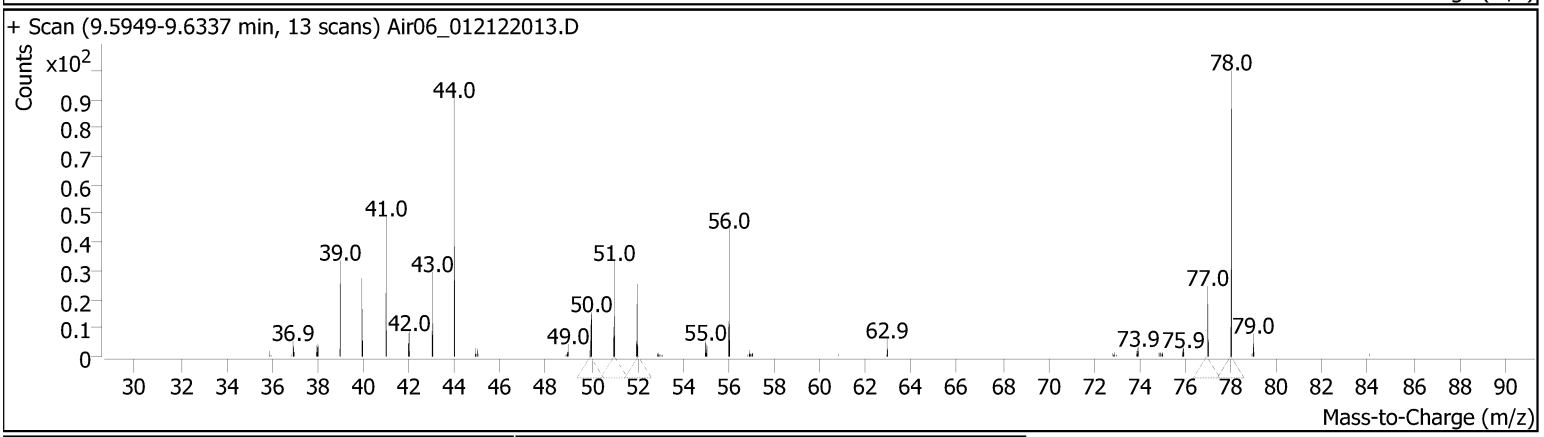



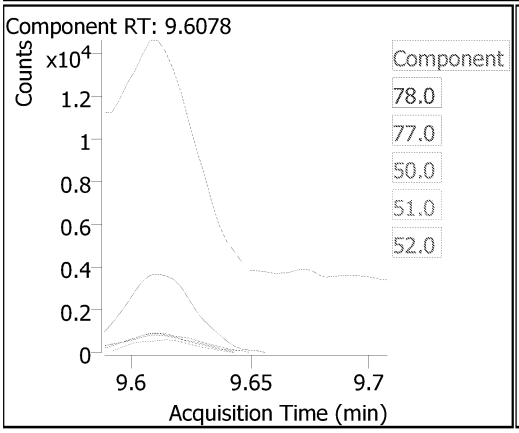



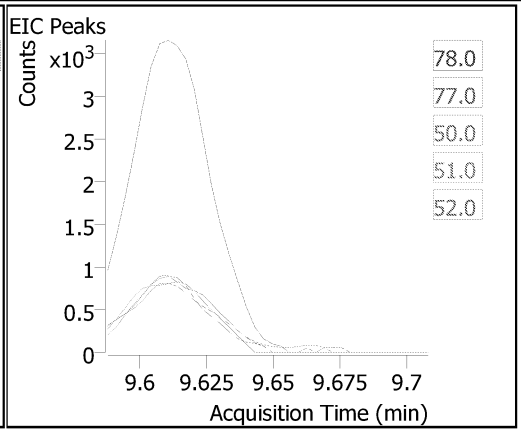
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.6078 | Benzene | 31591.3 | 97.0 | 71-43-2 | C6H6 | 0.07603 |

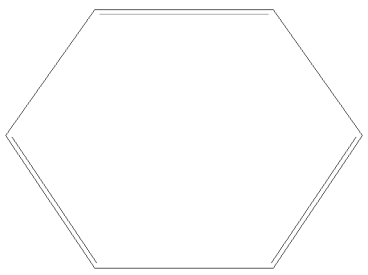


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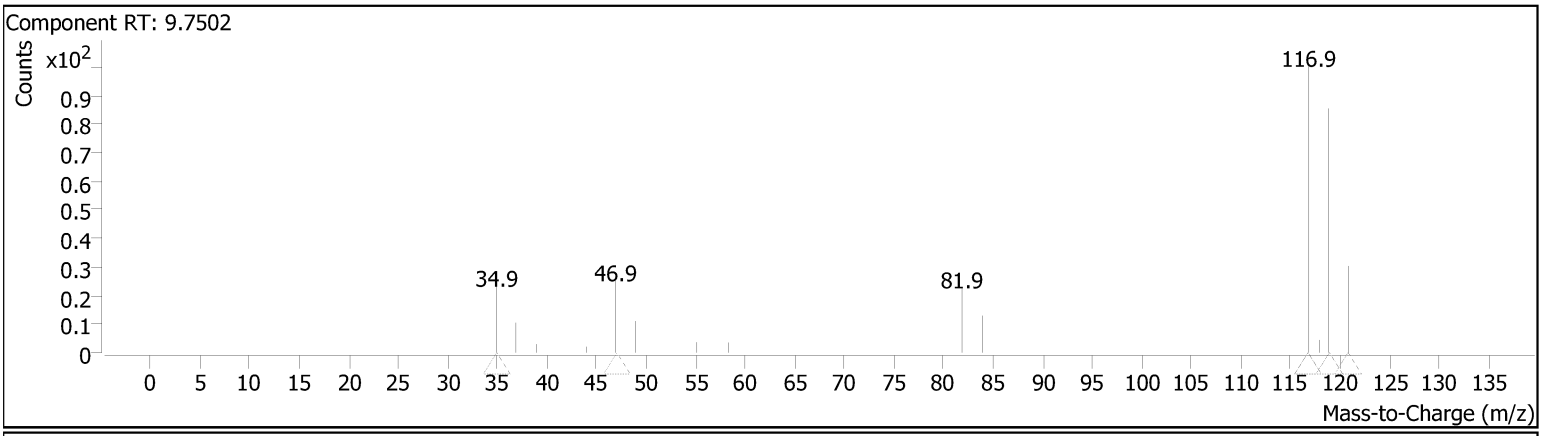
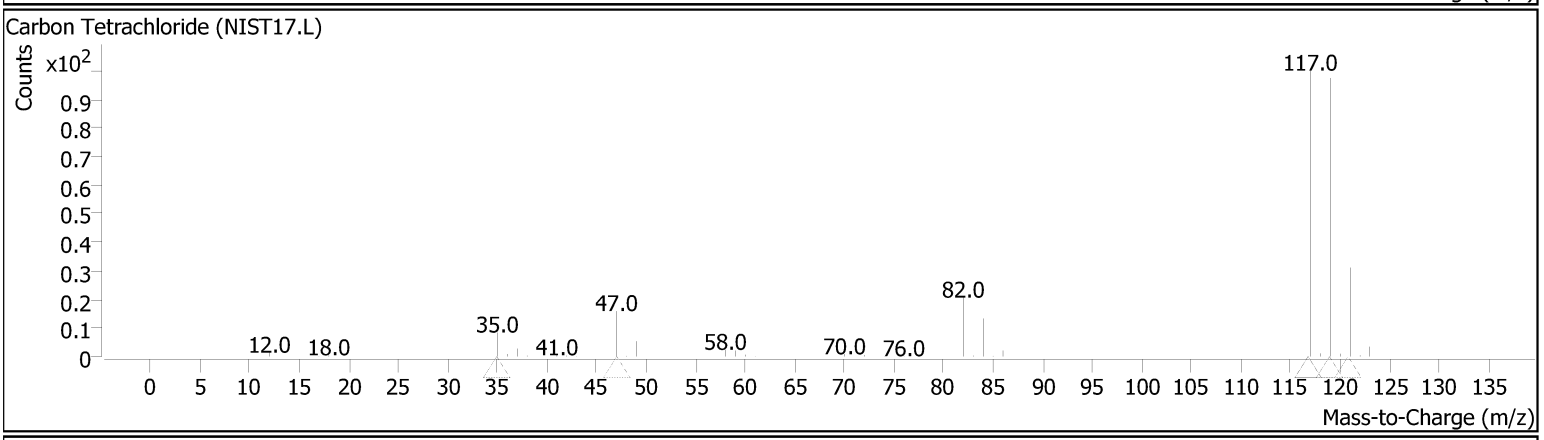
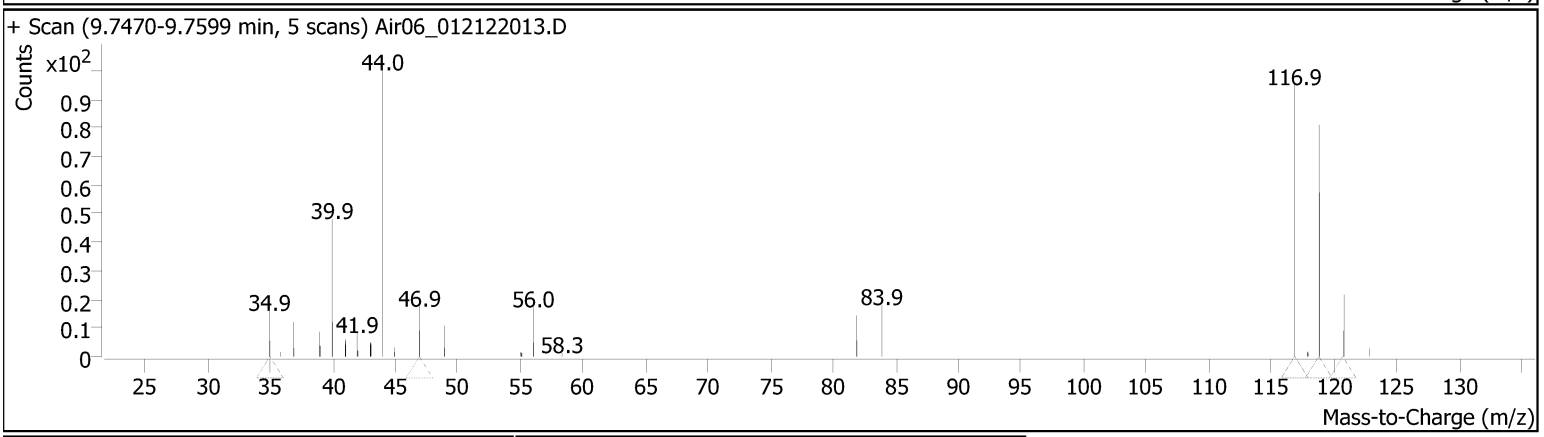
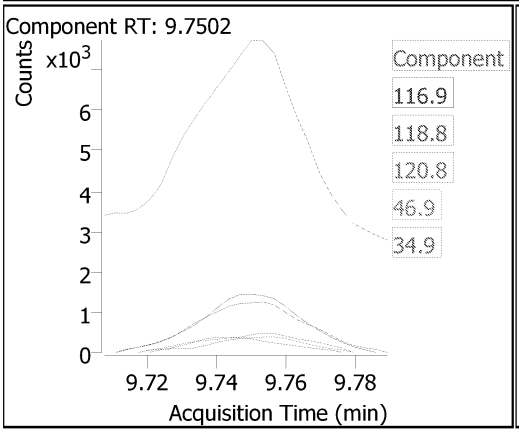
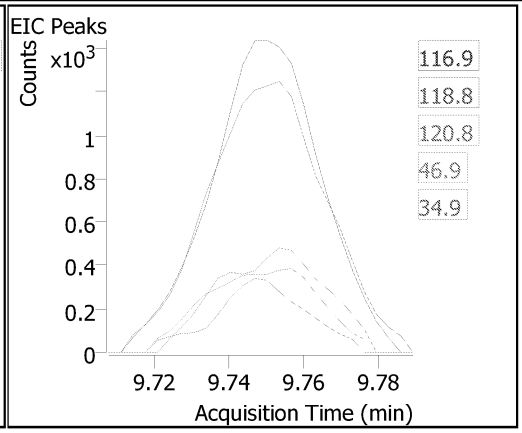
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.7502 | Carbon Tetrachloride | 11637.3 | 93.3 | 56-23-5 | CCl4 | 0.02801 |

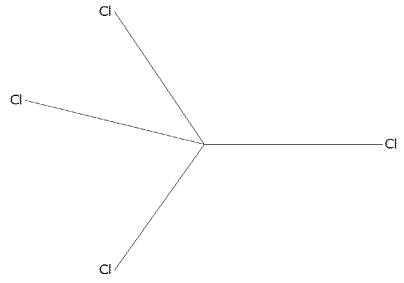


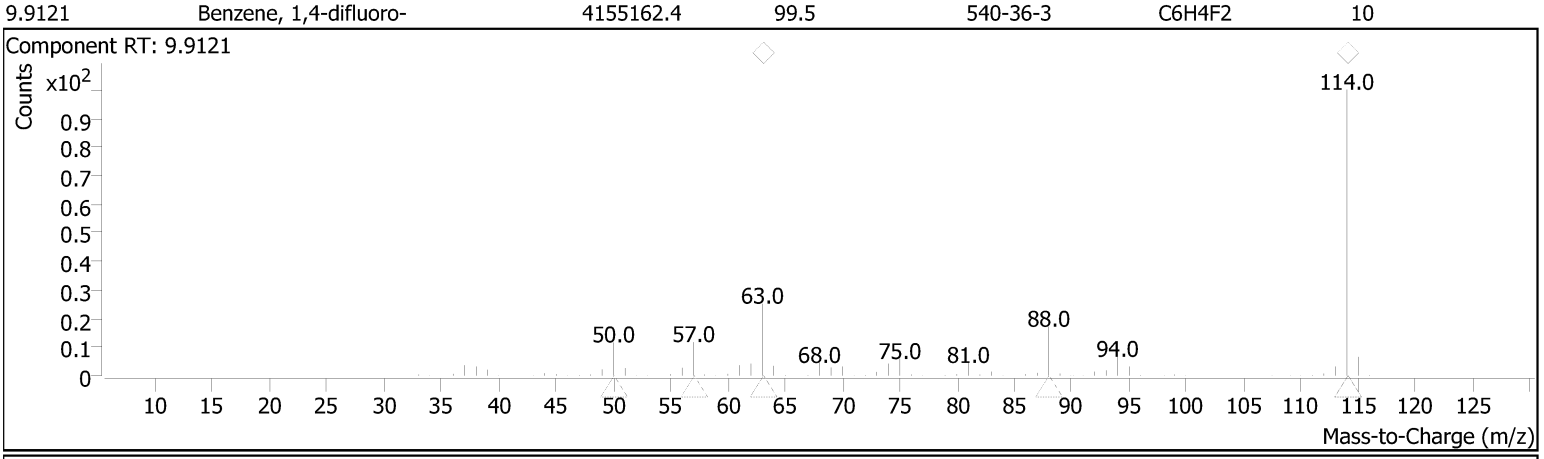



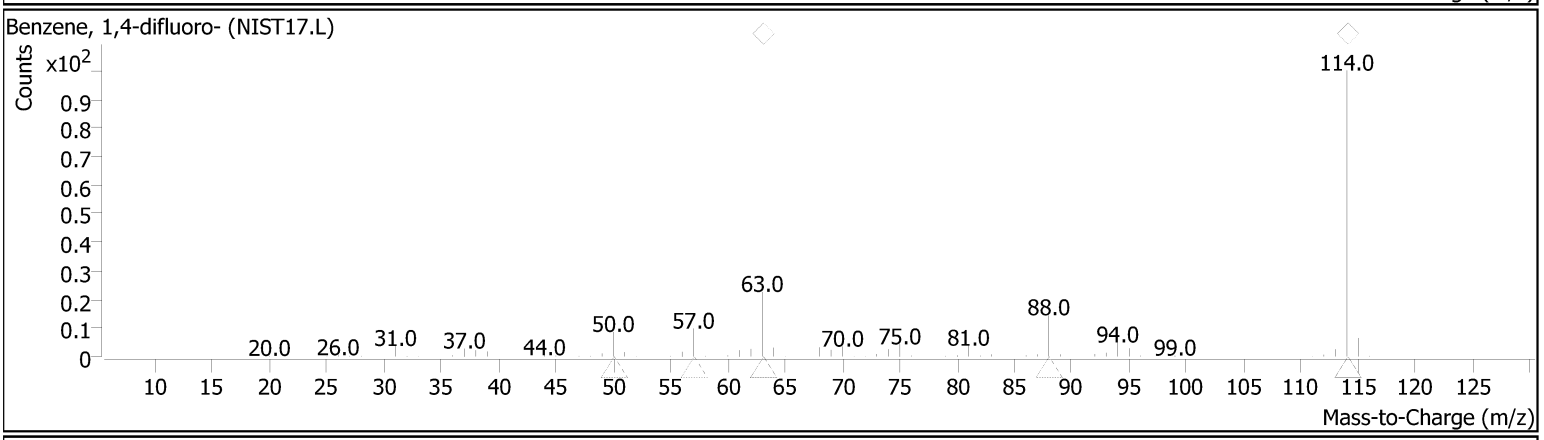



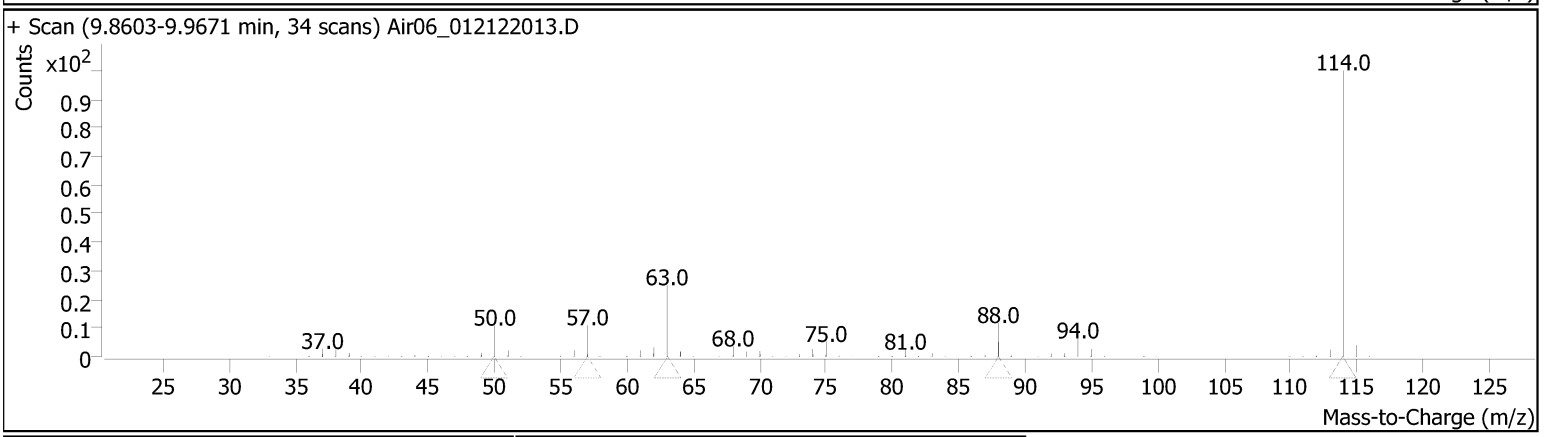



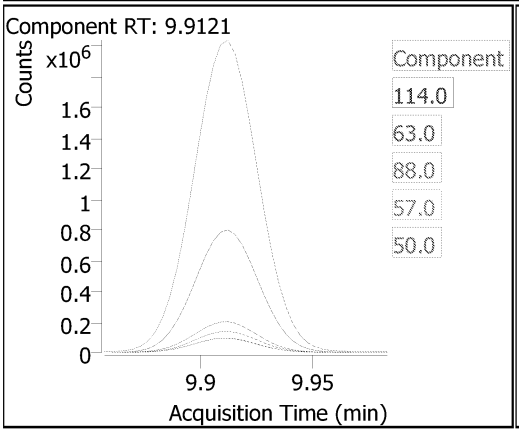



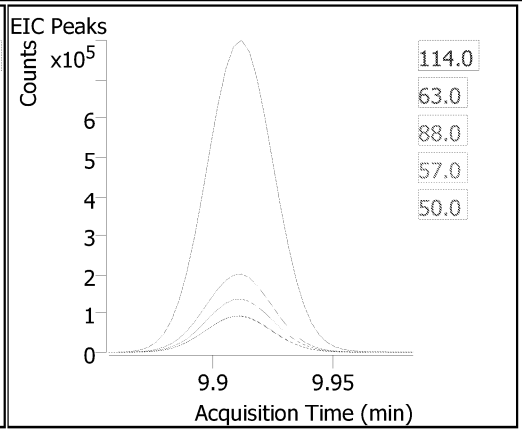
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.9121 | Benzene, 1,4-difluoro- | 4155162.4 | 99.5 | 540-36-3 | C6H4F2 | 10 |



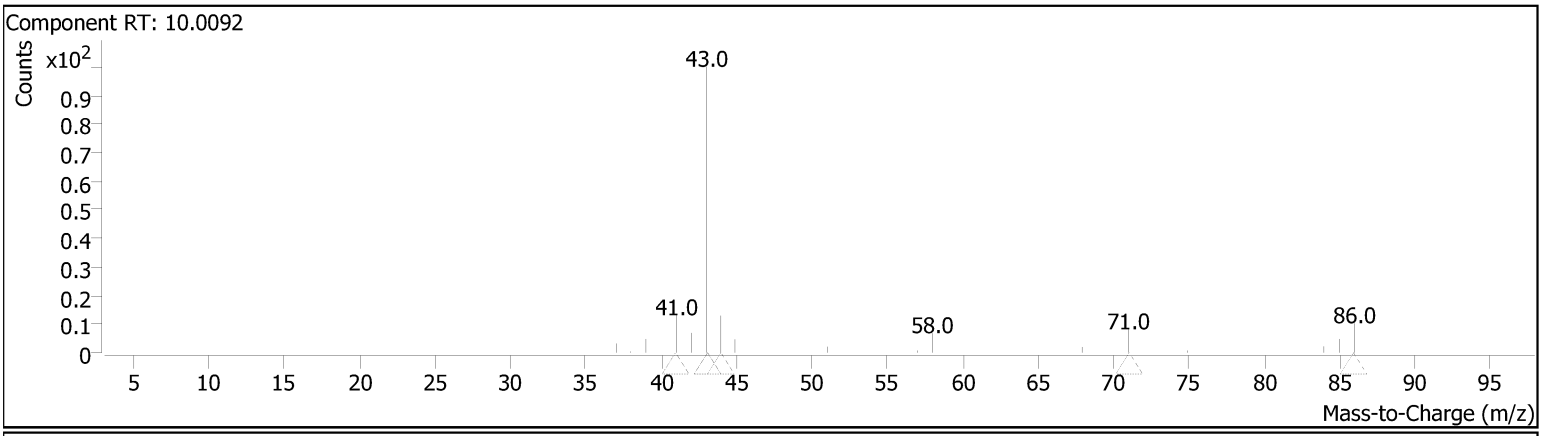



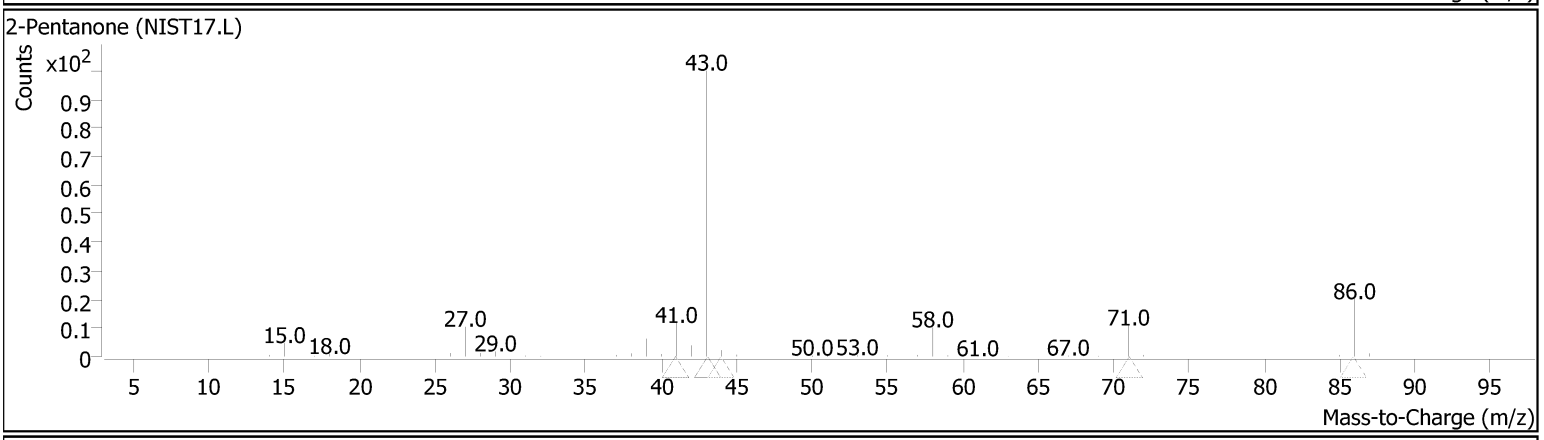



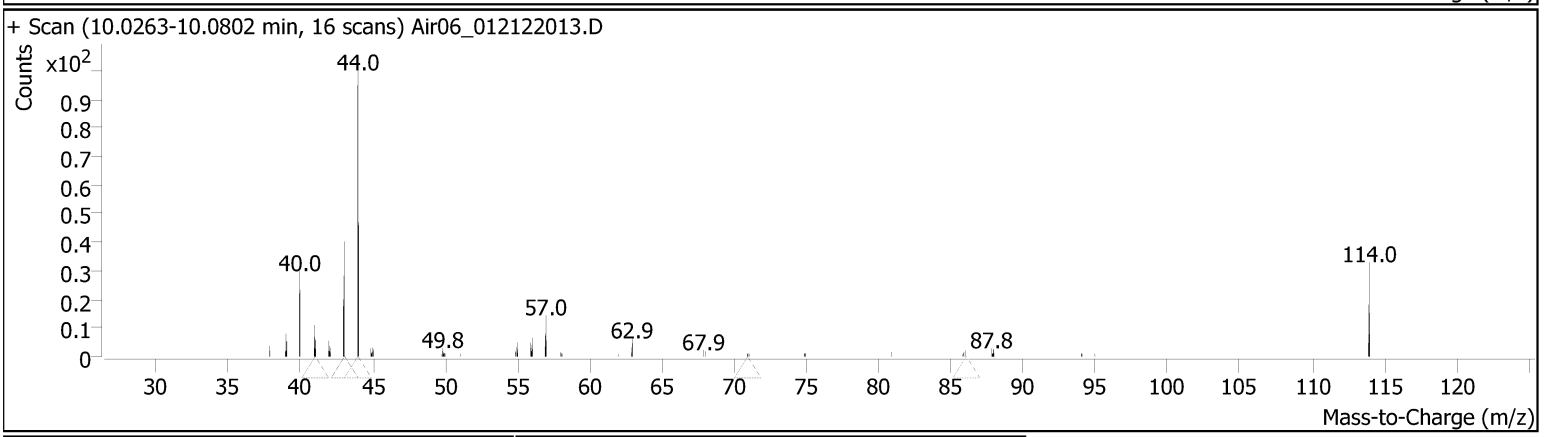



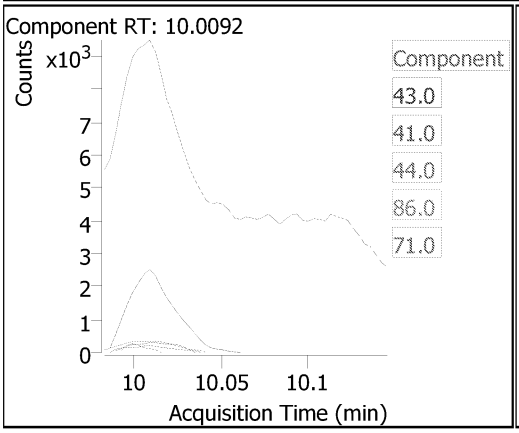


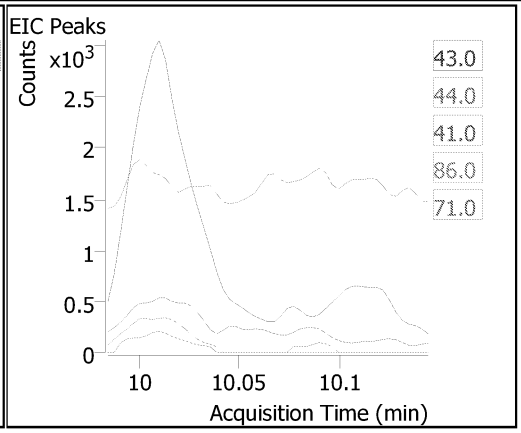

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.0092 | 2-Pentanone | 24894.2 | 85.7 | 107-87-9 | C5H10O | 0.05991 |

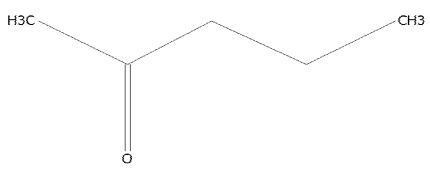


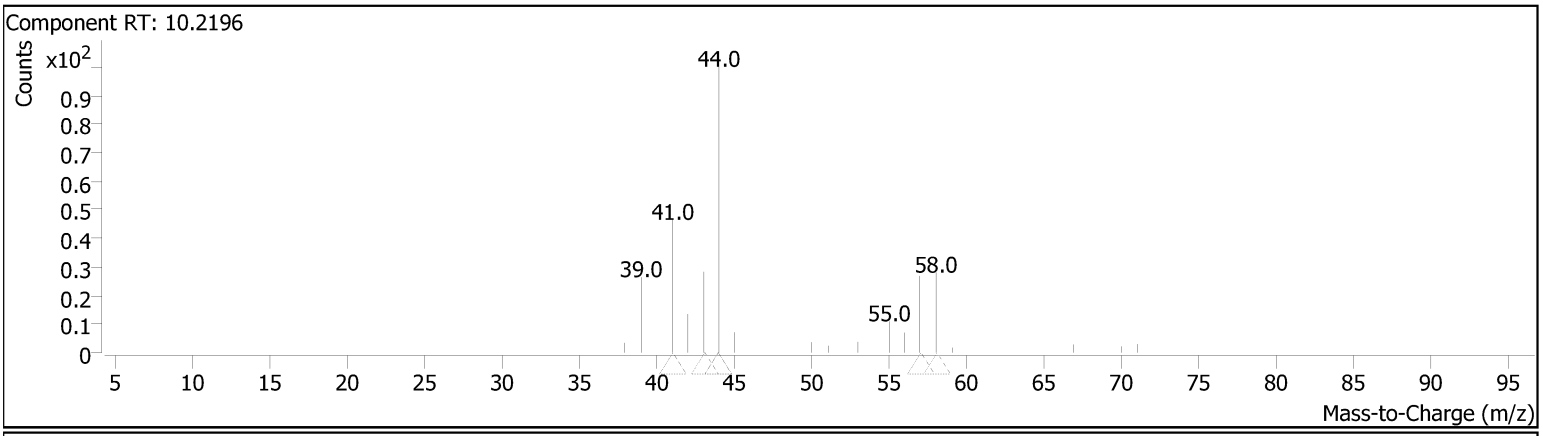



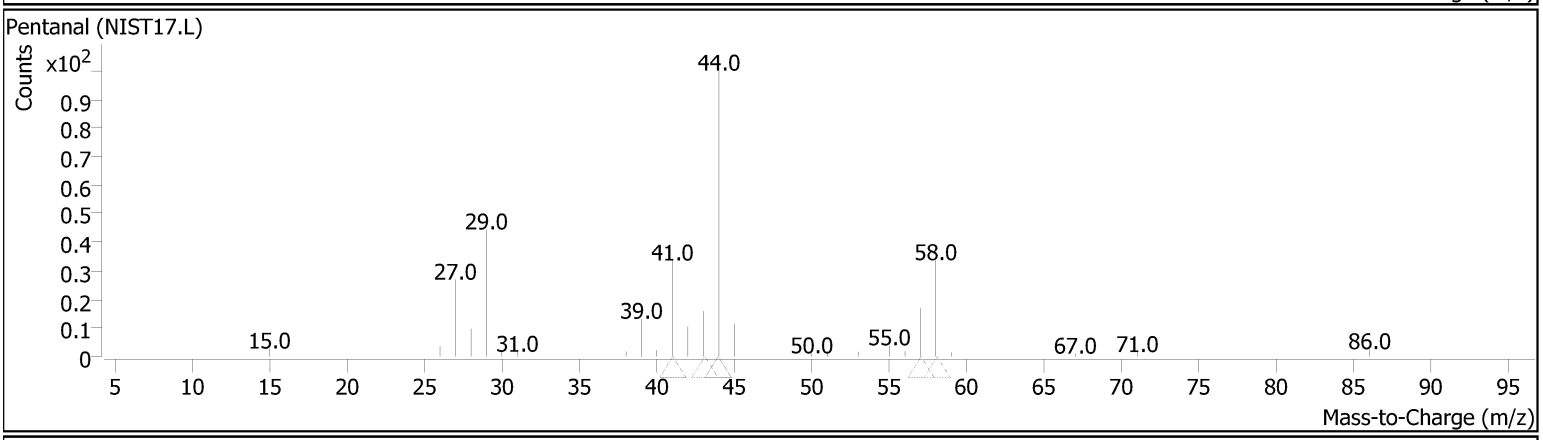



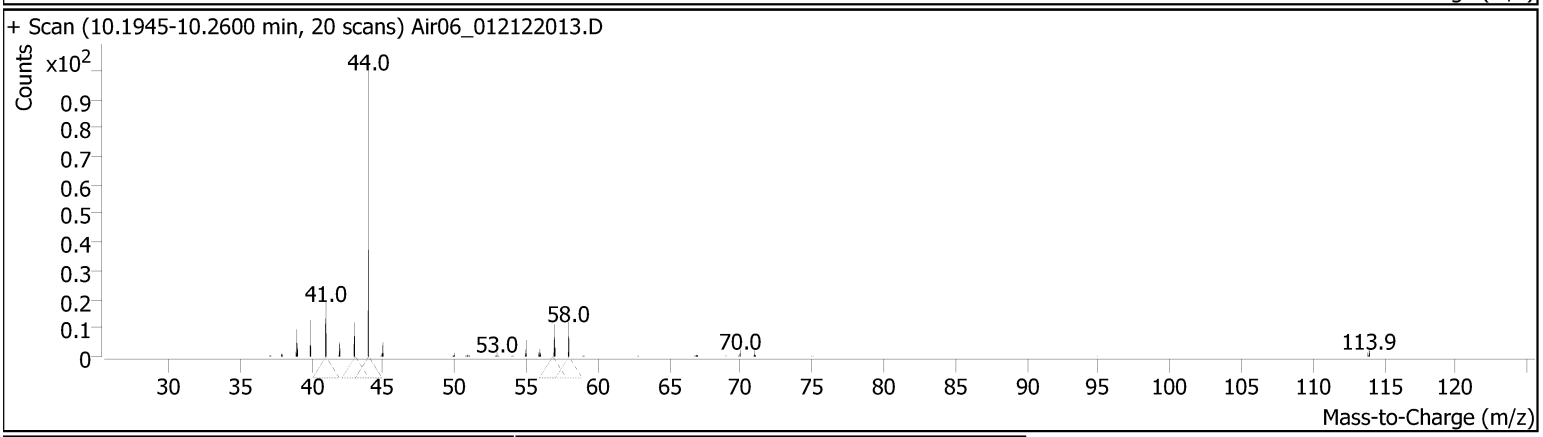



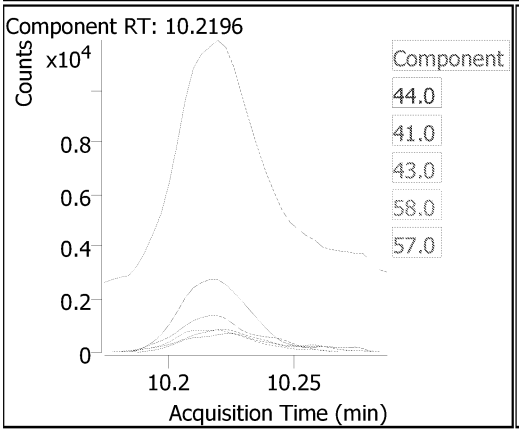



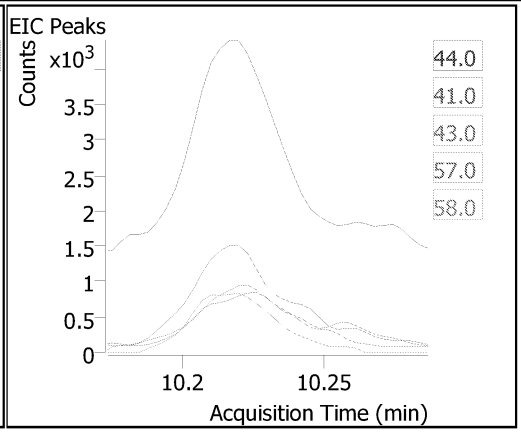
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.2196 | Pentanal | 23895.5 | 93.8 | 110-62-3 | C5H10O | 0.05751 |



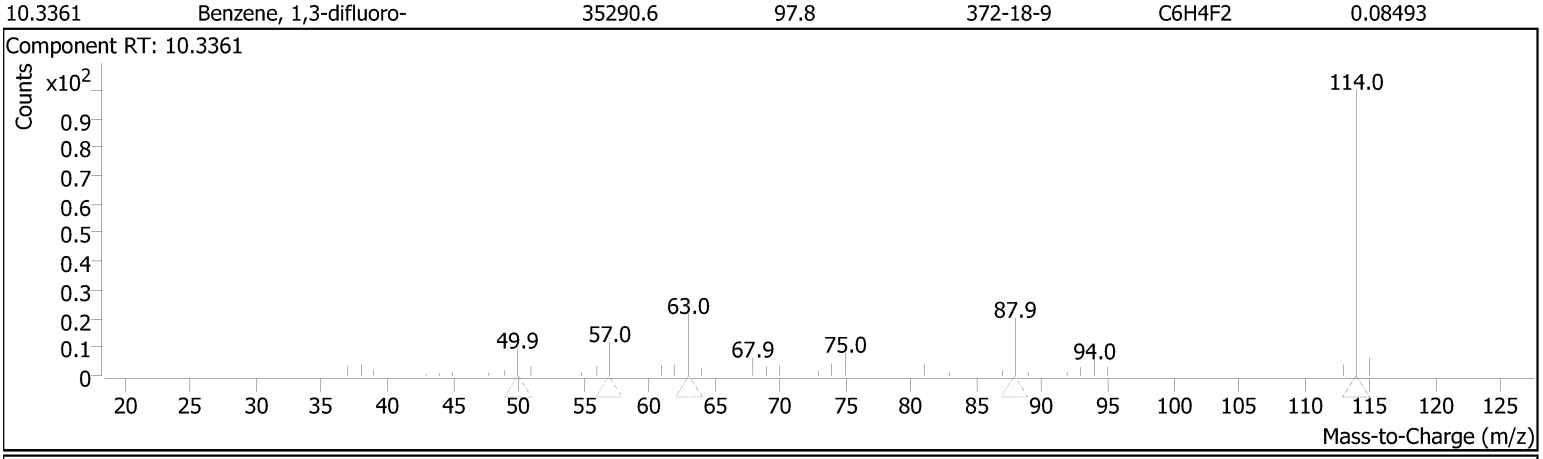



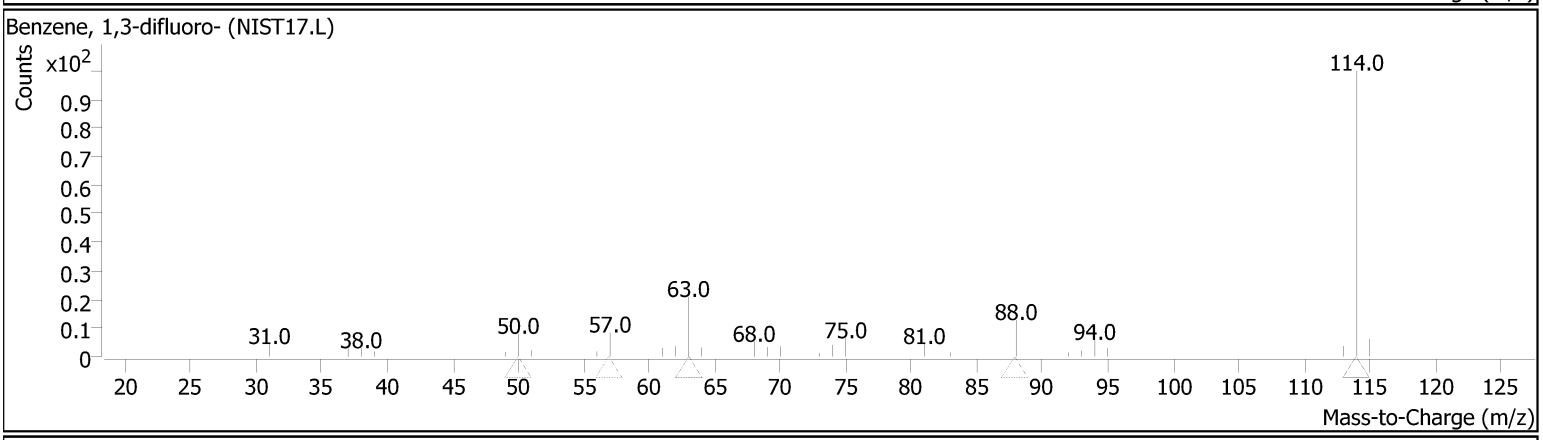



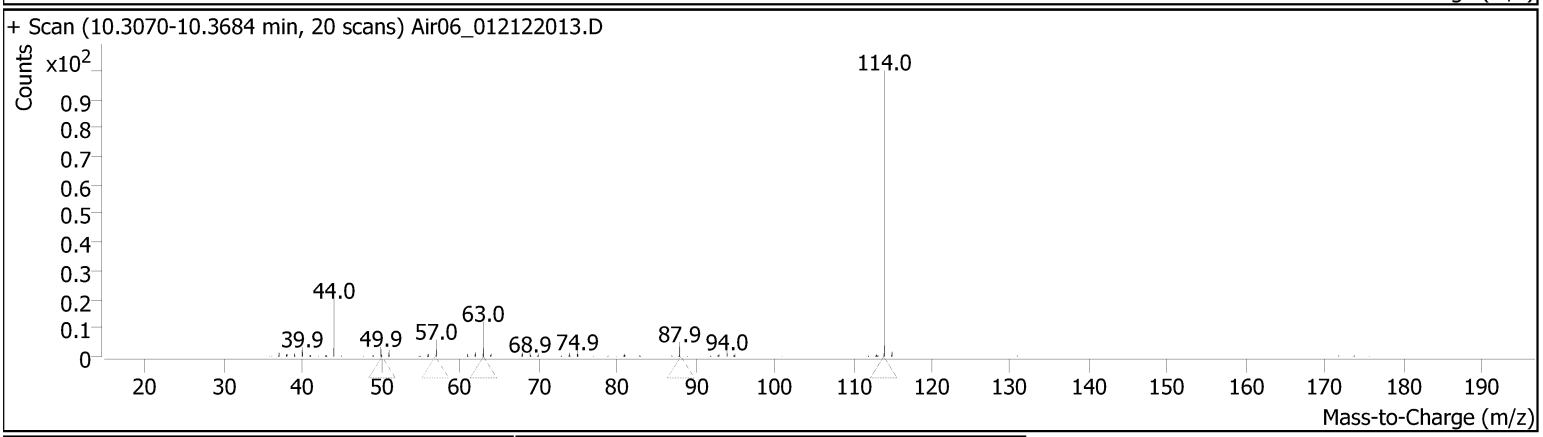



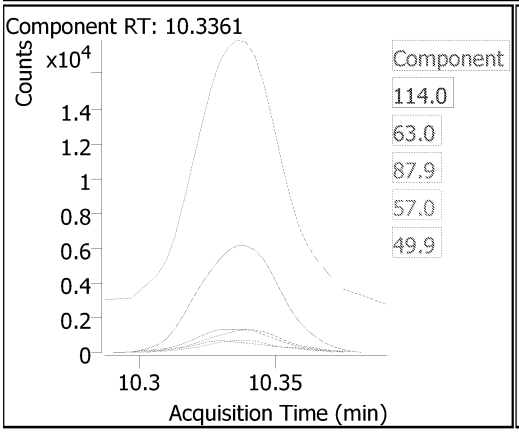


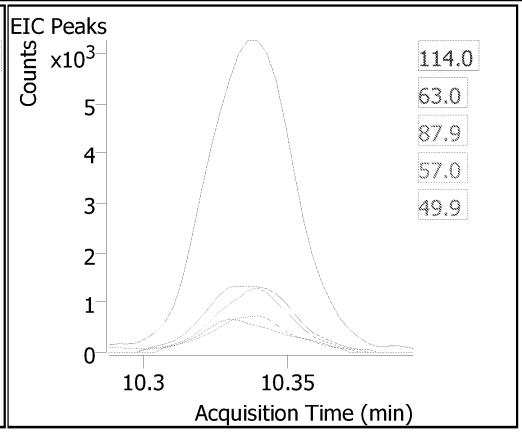

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.3361 | Benzene, 1,3-difluoro- | 35290.6 | 97.8 | 372-18-9 | C6H4F2 | 0.08493 |

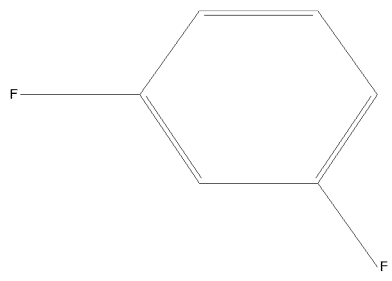


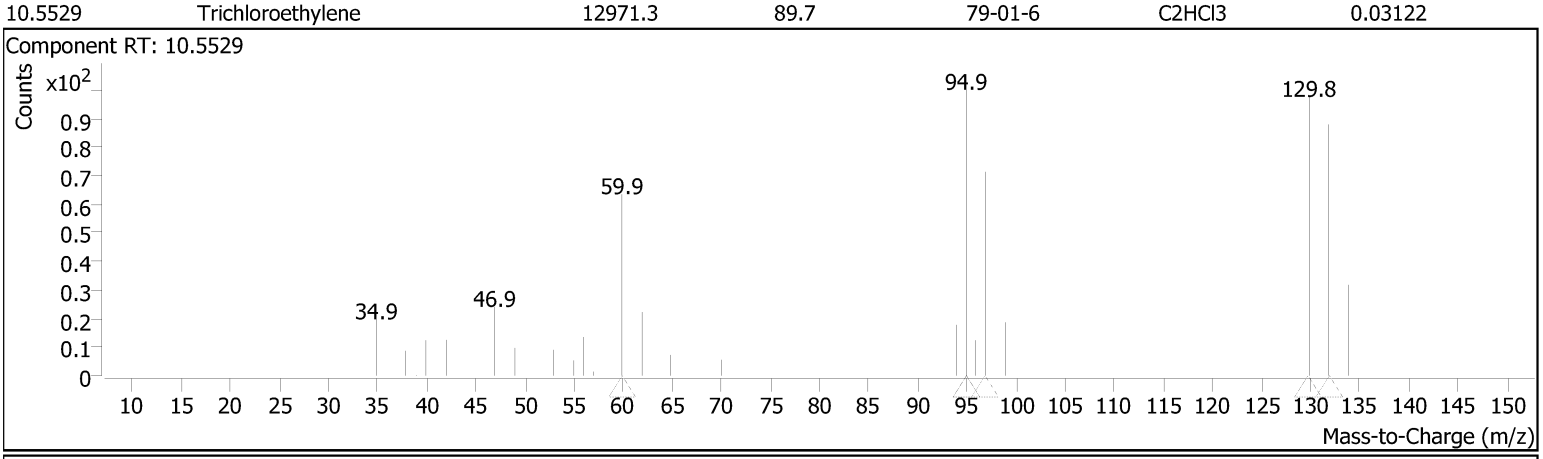



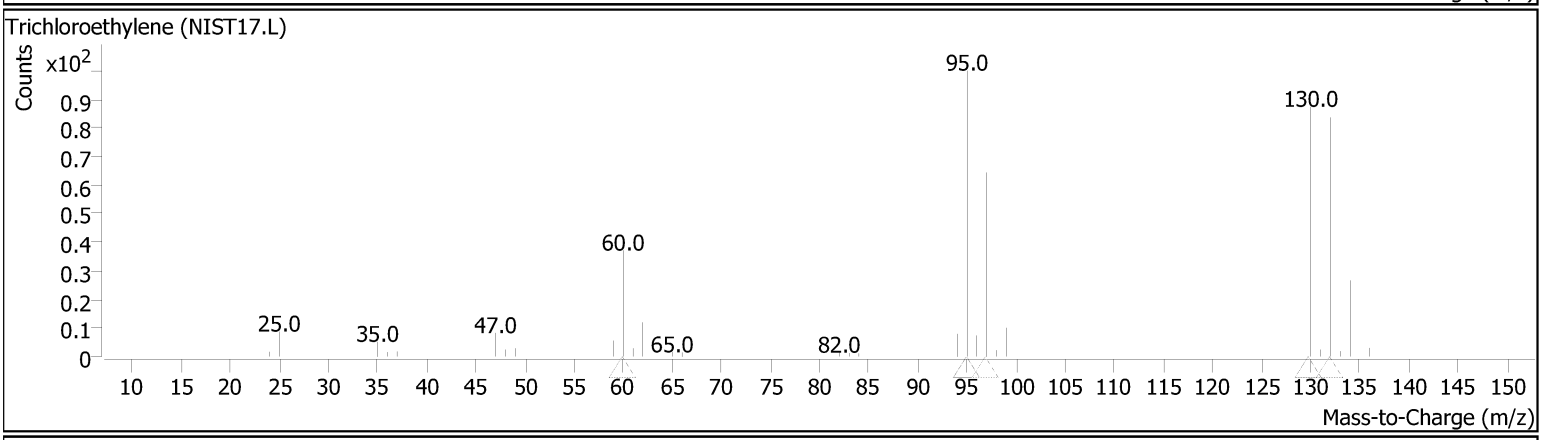



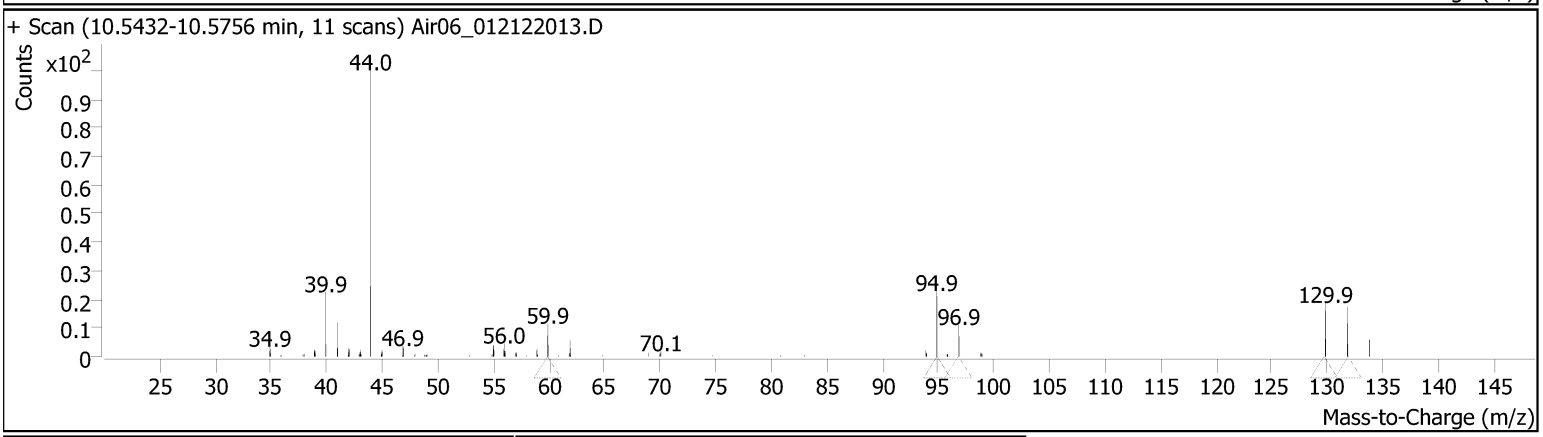



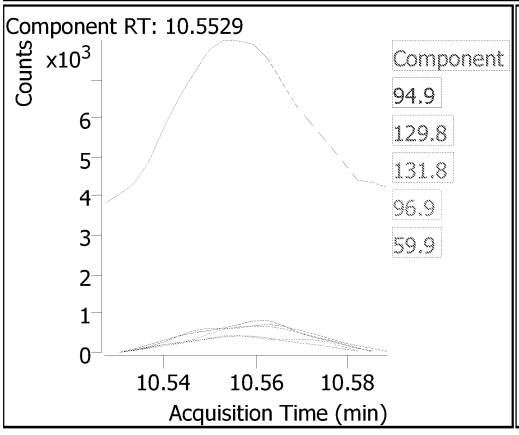



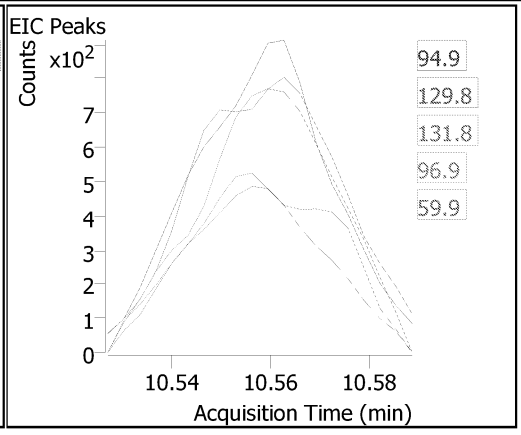
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.5529 | Trichloroethylene | 12971.3 | 89.7 | 79-01-6 | C2HCl3 | 0.03122 |

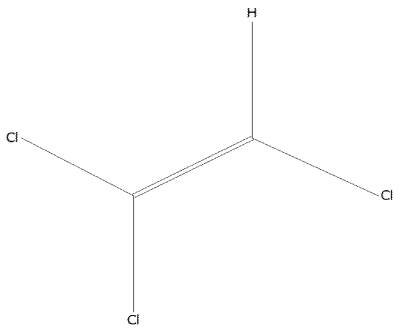


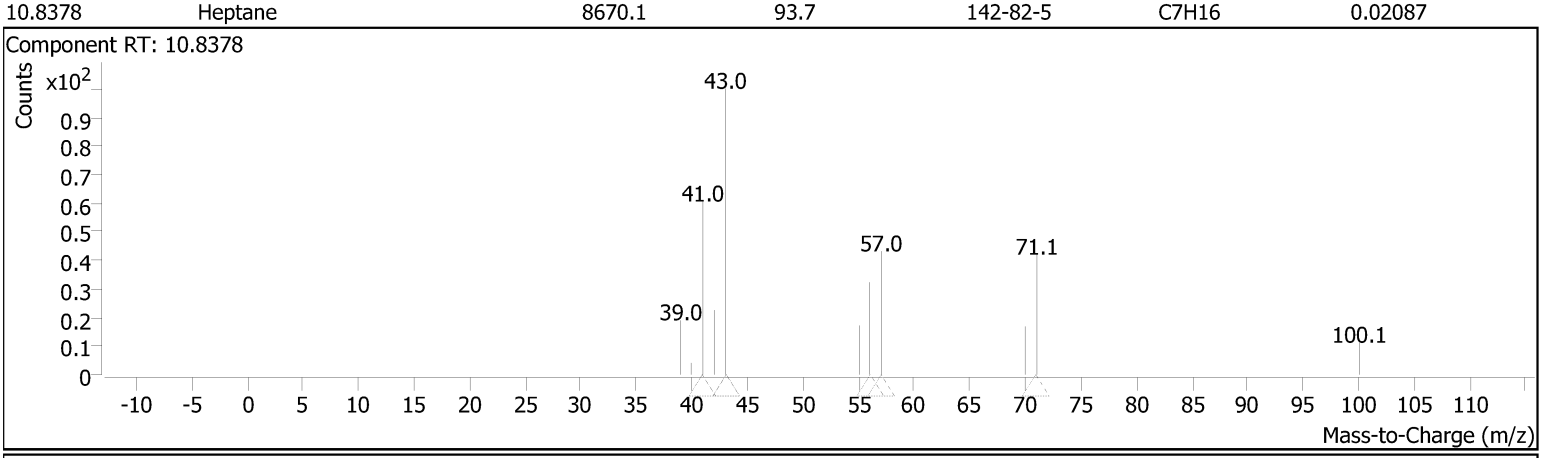



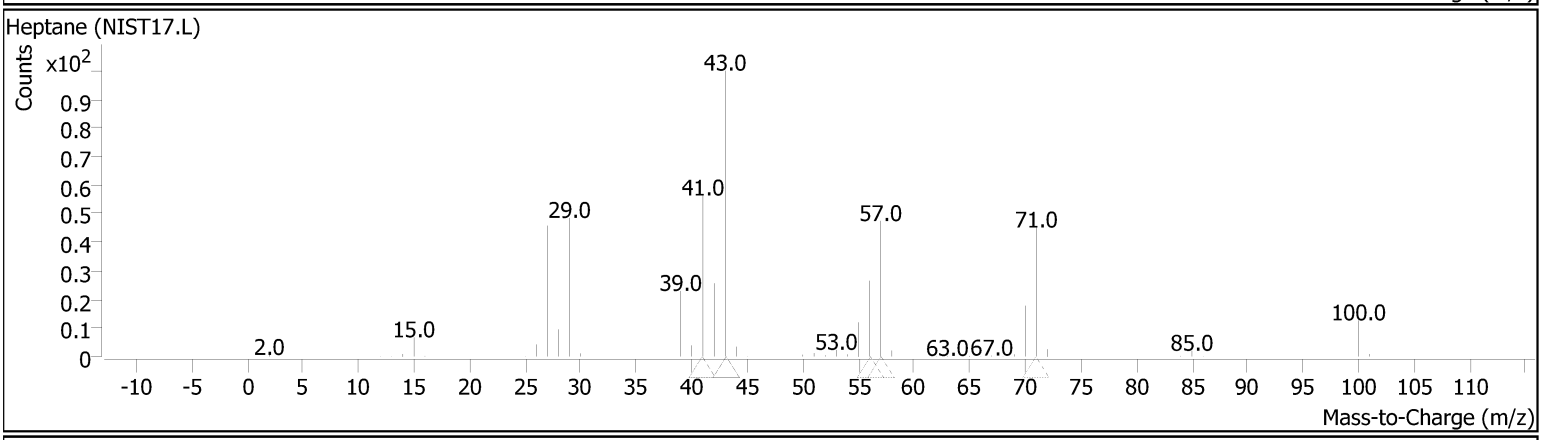



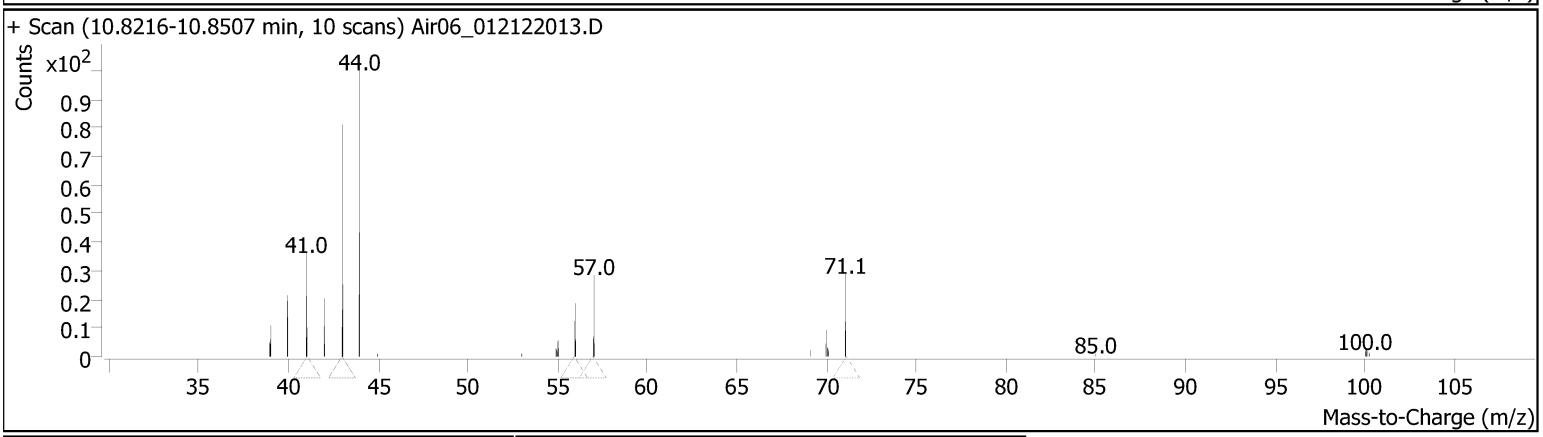



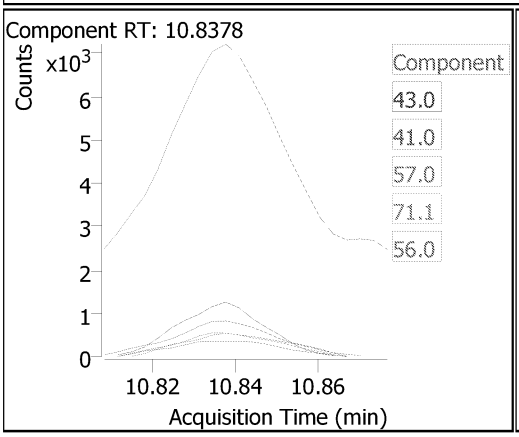



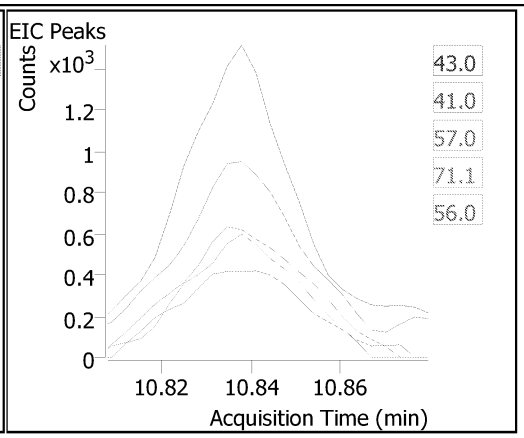
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.8378 | Heptane | 8670.1 | 93.7 | 142-82-5 | C7H16 | 0.02087 |



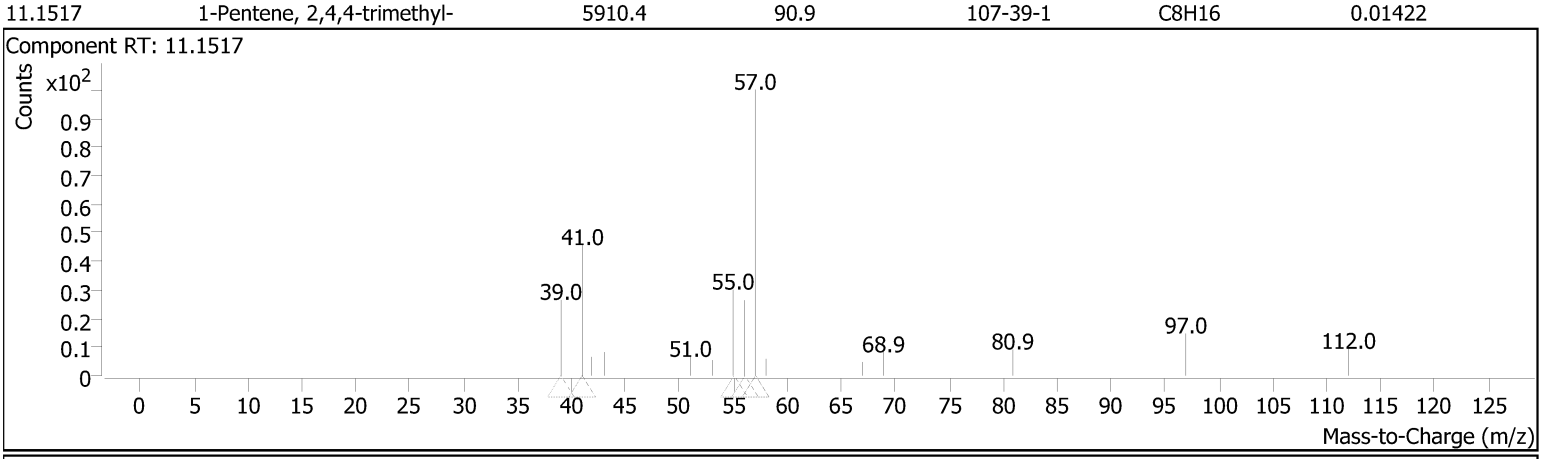



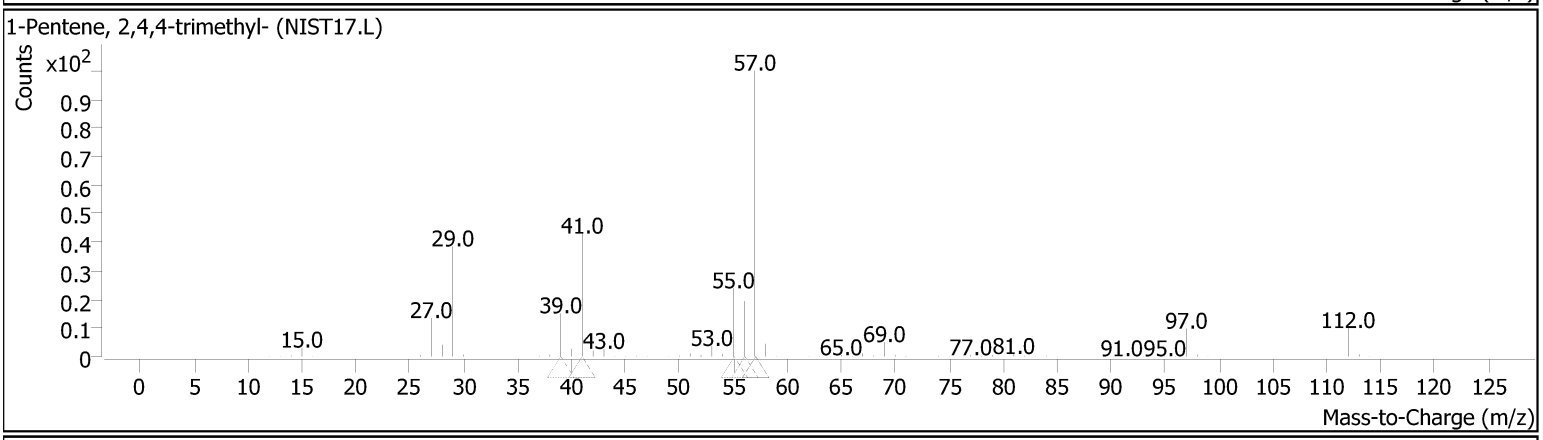



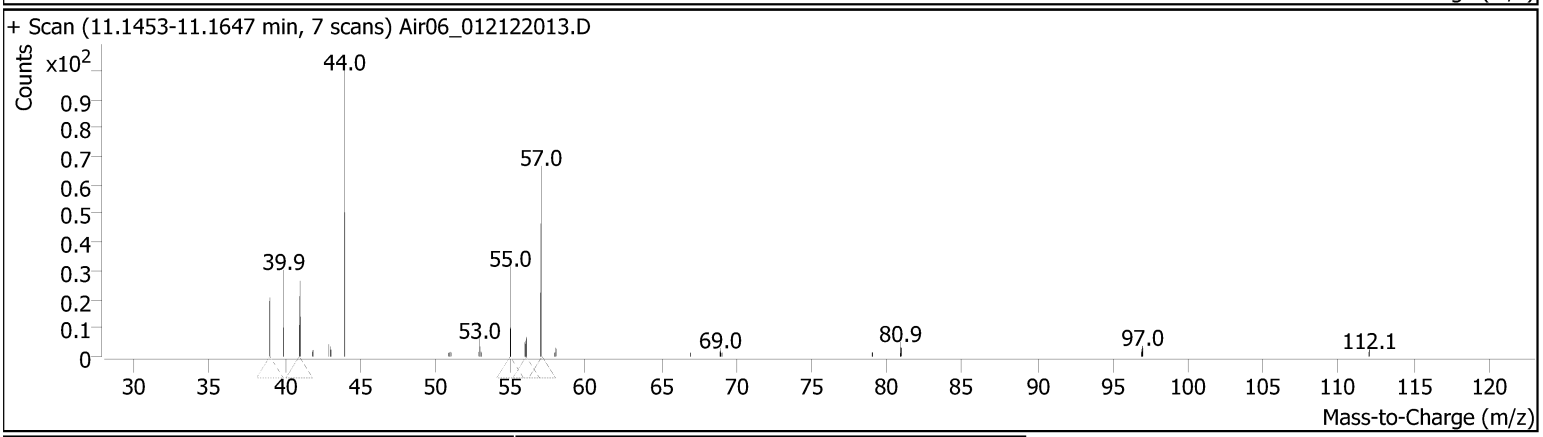



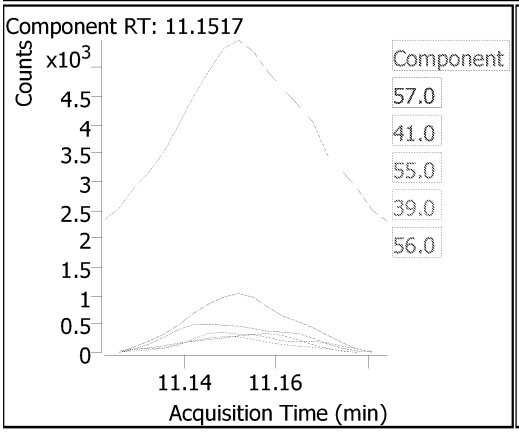


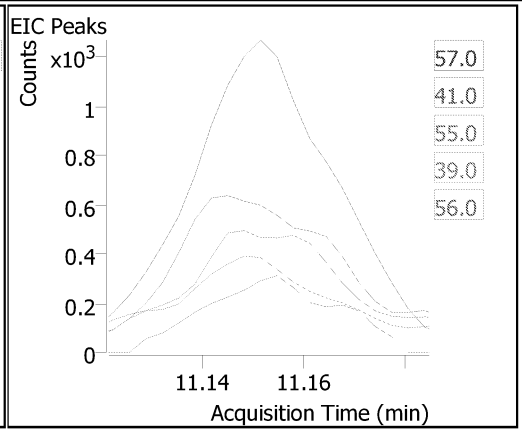

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.1517 | 1-Pentene, 2,4,4-trimethyl- | 5910.4 | 90.9 | 107-39-1 | C8H16 | 0.01422 |

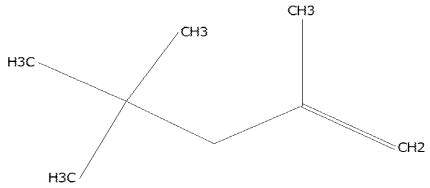


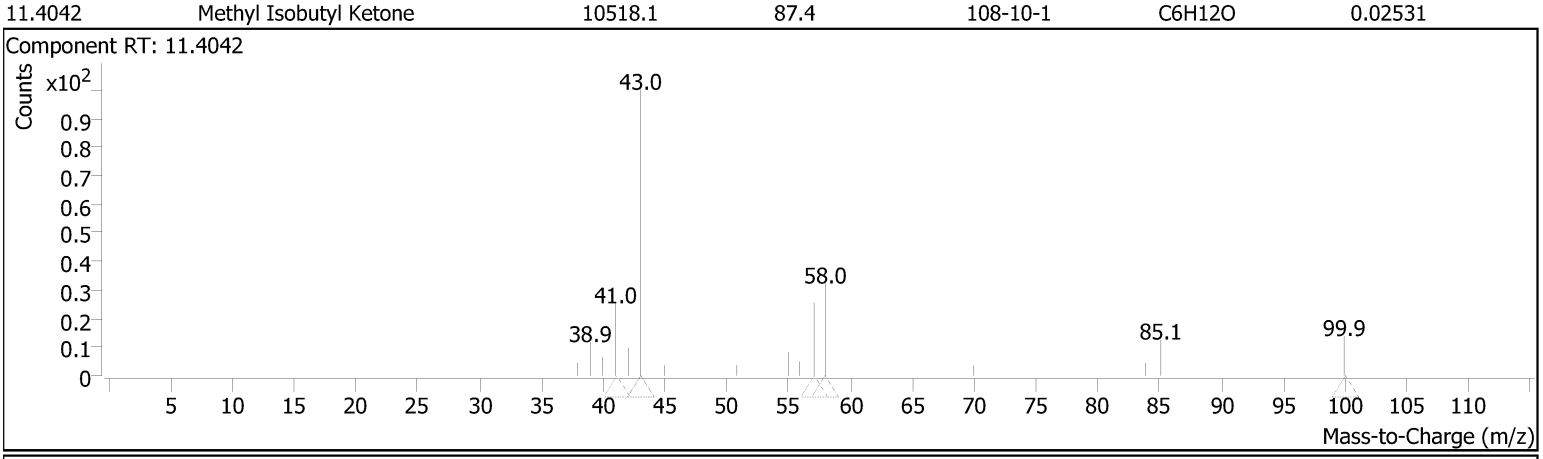



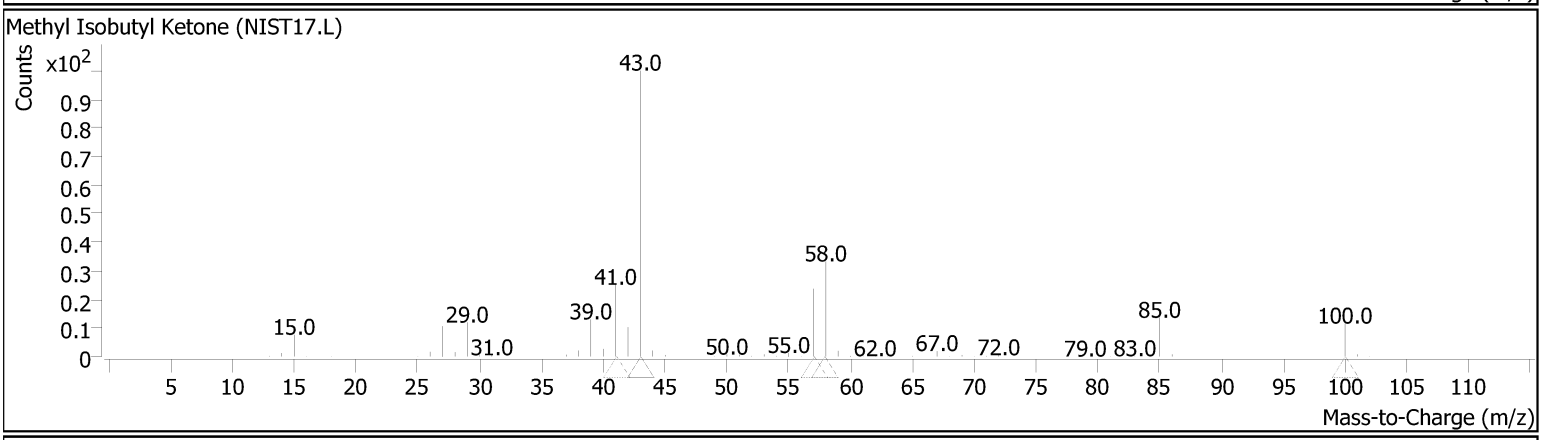



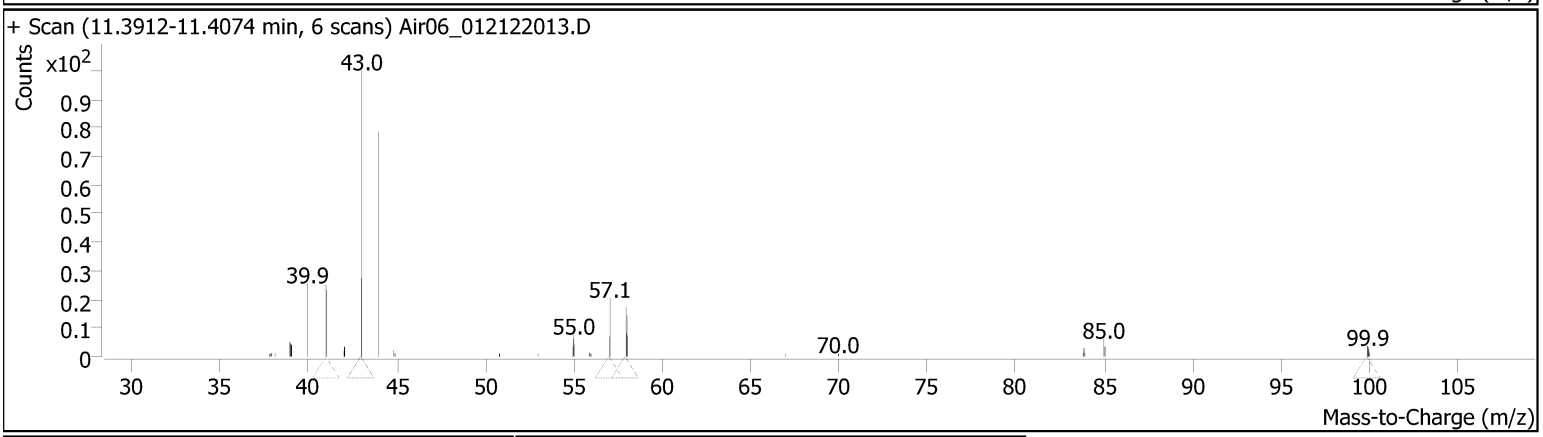



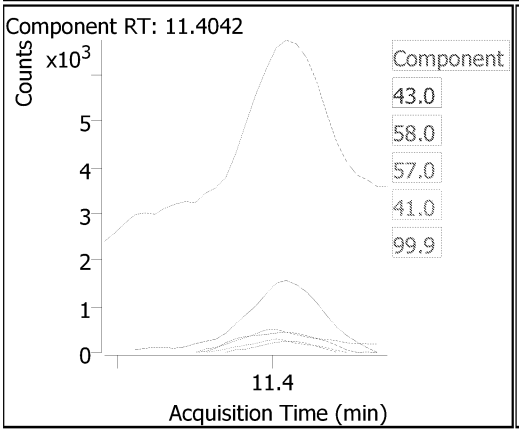



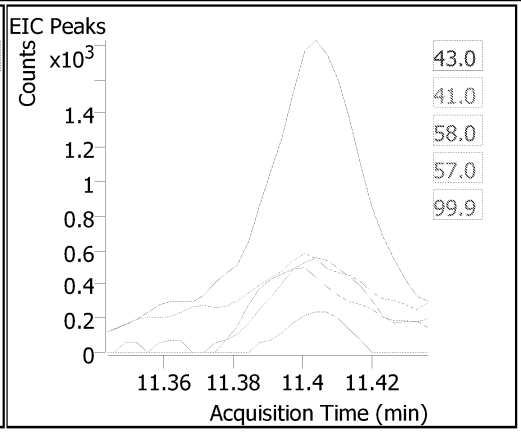
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.4042 | Methyl Isobutyl Ketone | 10518.1 | 87.4 | 108-10-1 | C6H12O | 0.02531 |

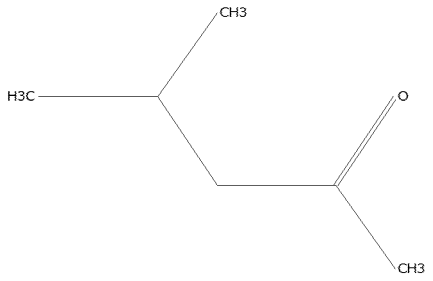


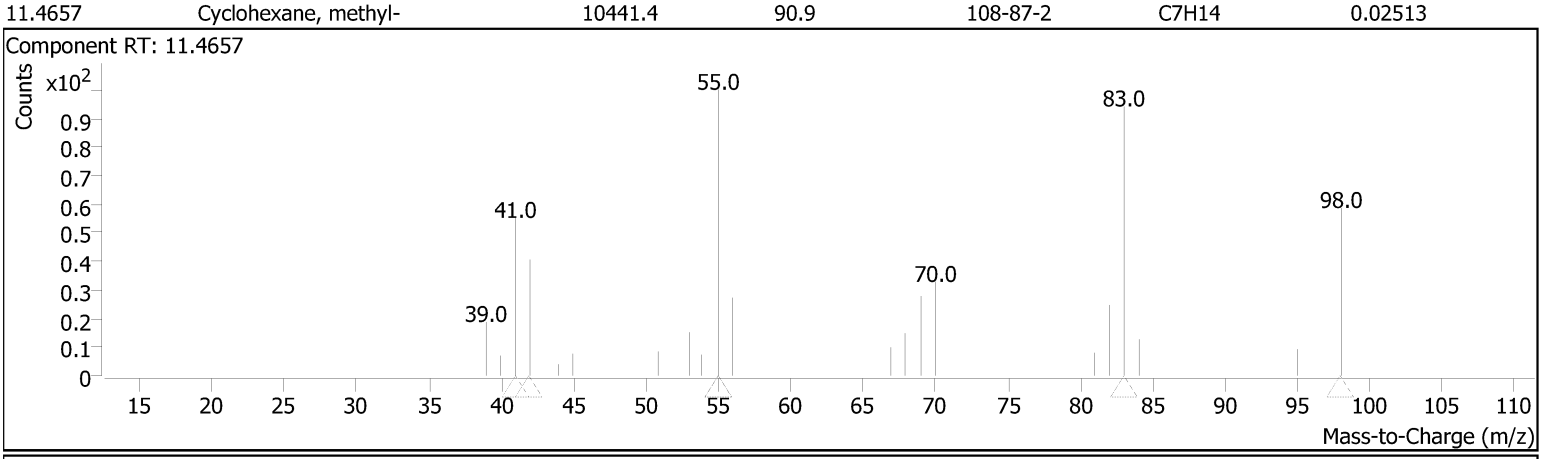



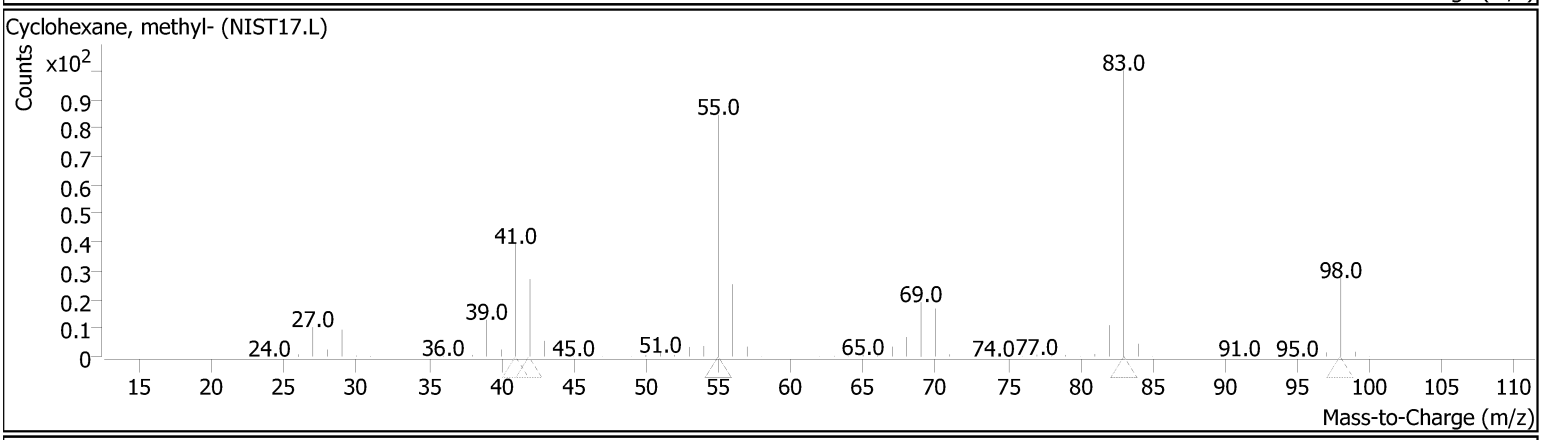



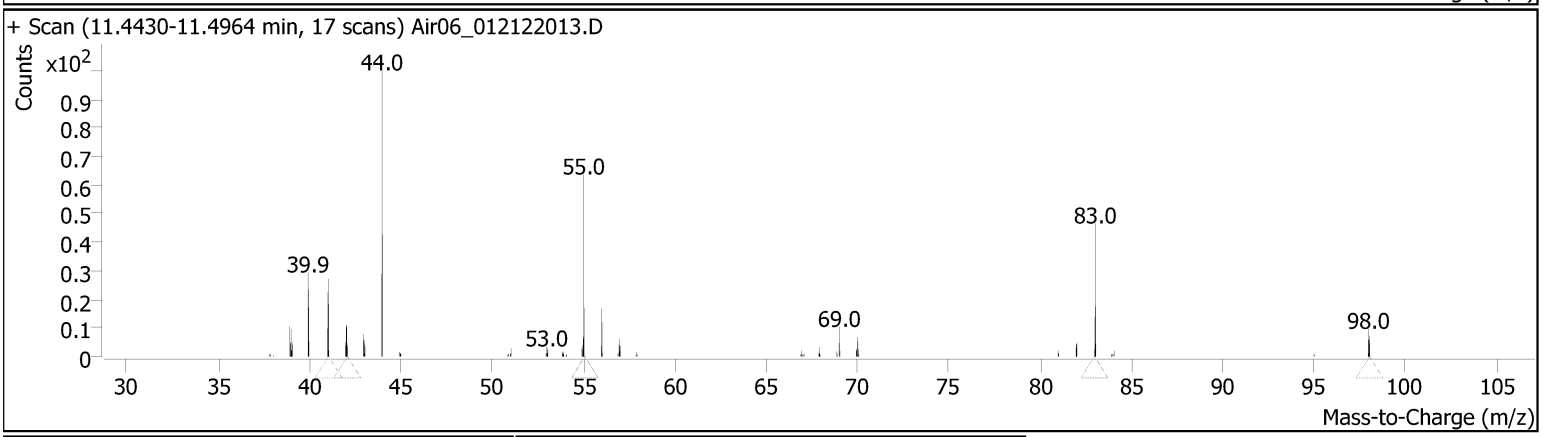



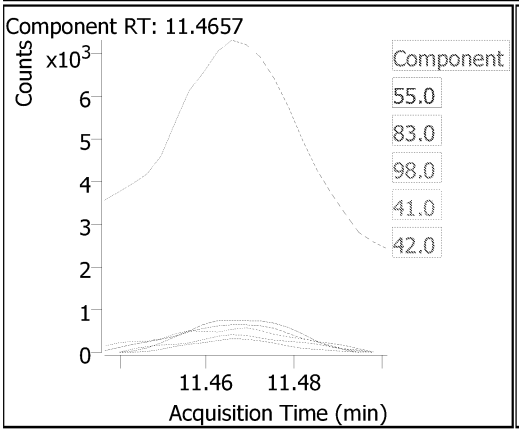



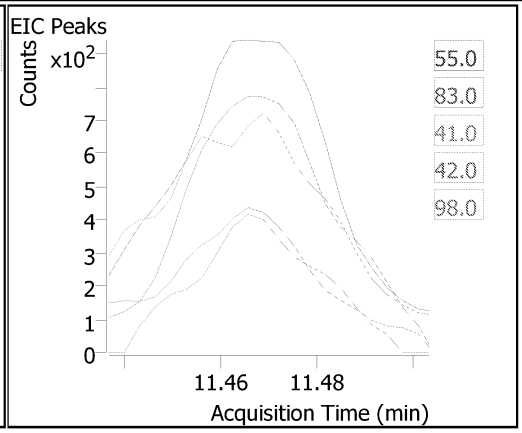
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.4657 | Cyclohexane, methyl- | 10441.4 | 90.9 | 108-87-2 | C7H14 | 0.02513 |

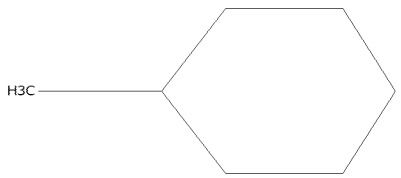


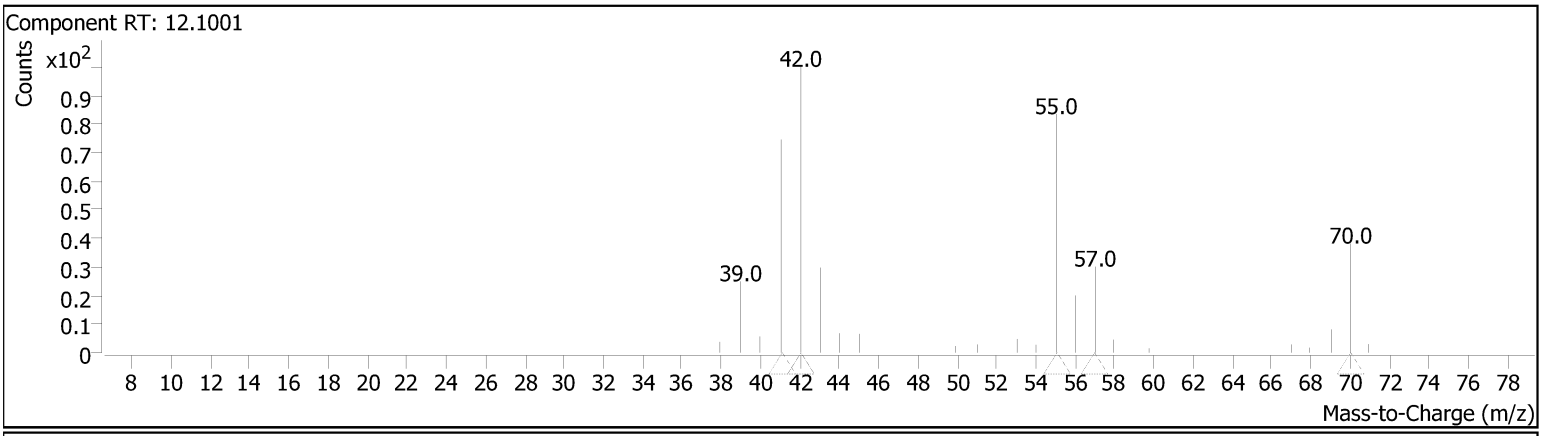



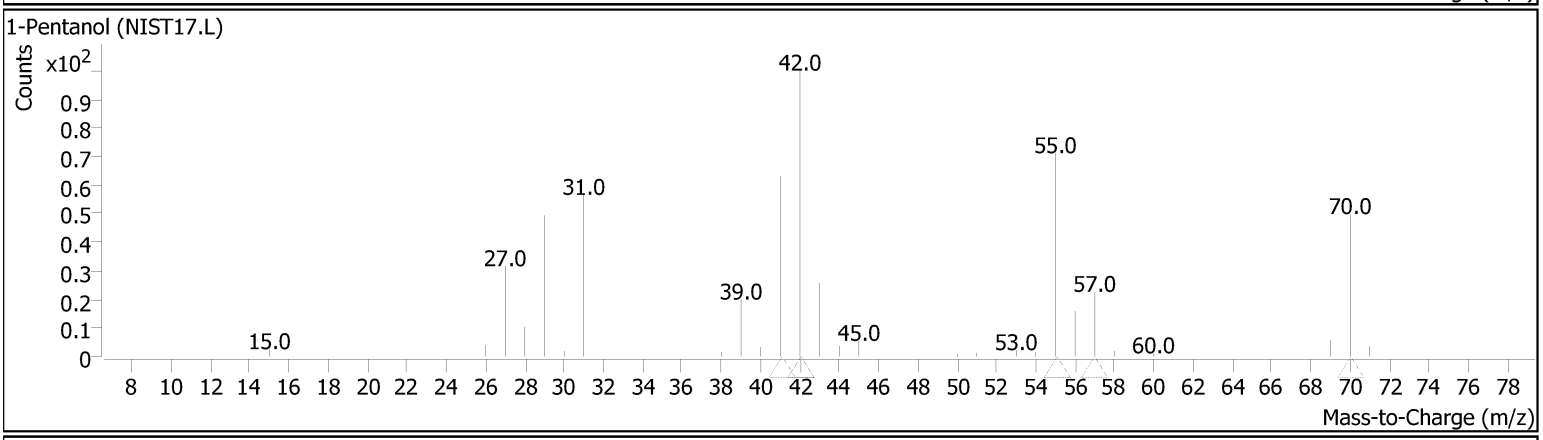



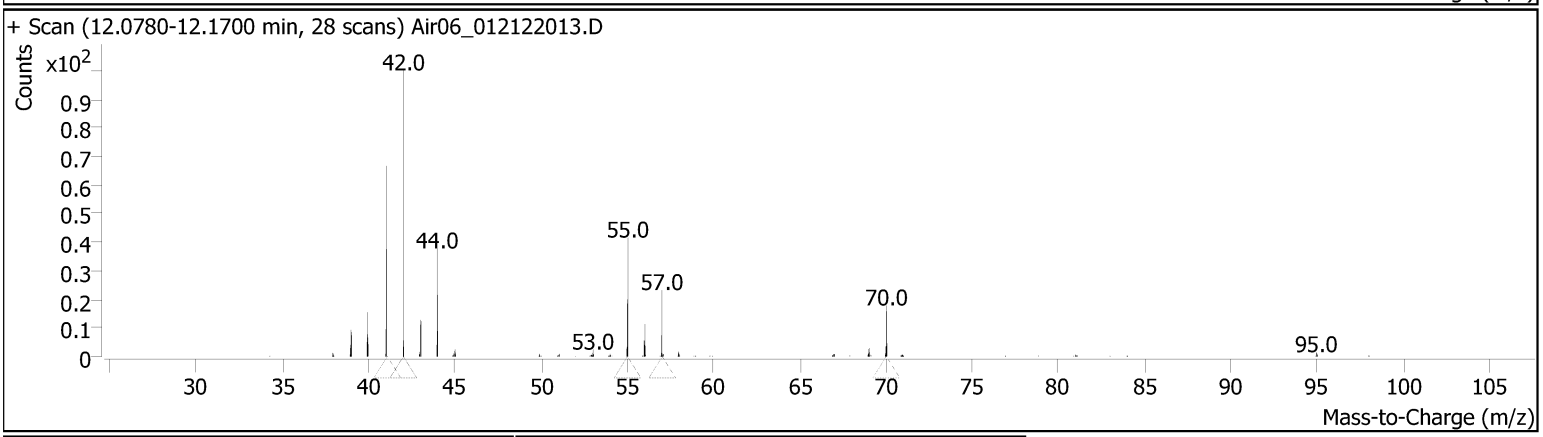



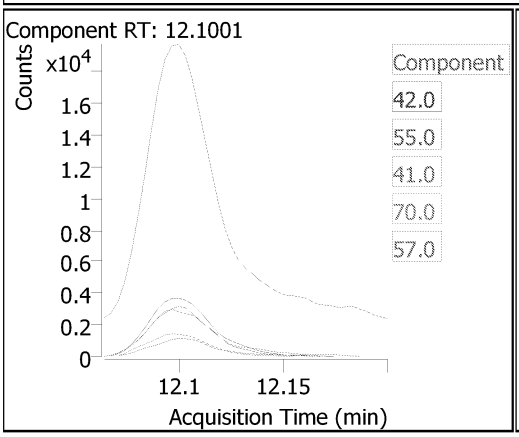



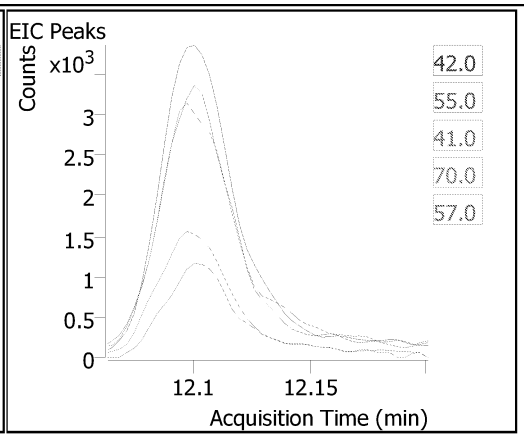
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.1001 | 1-Pentanol | 41748.8 | 98.0 | 71-41-0 | C5H12O | 0.08736 |



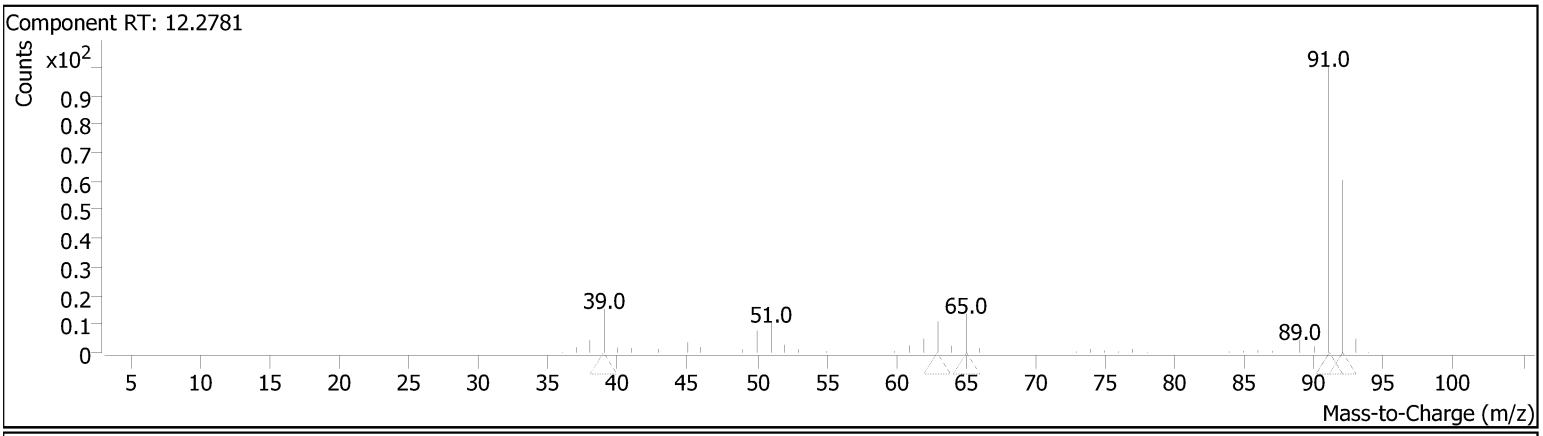



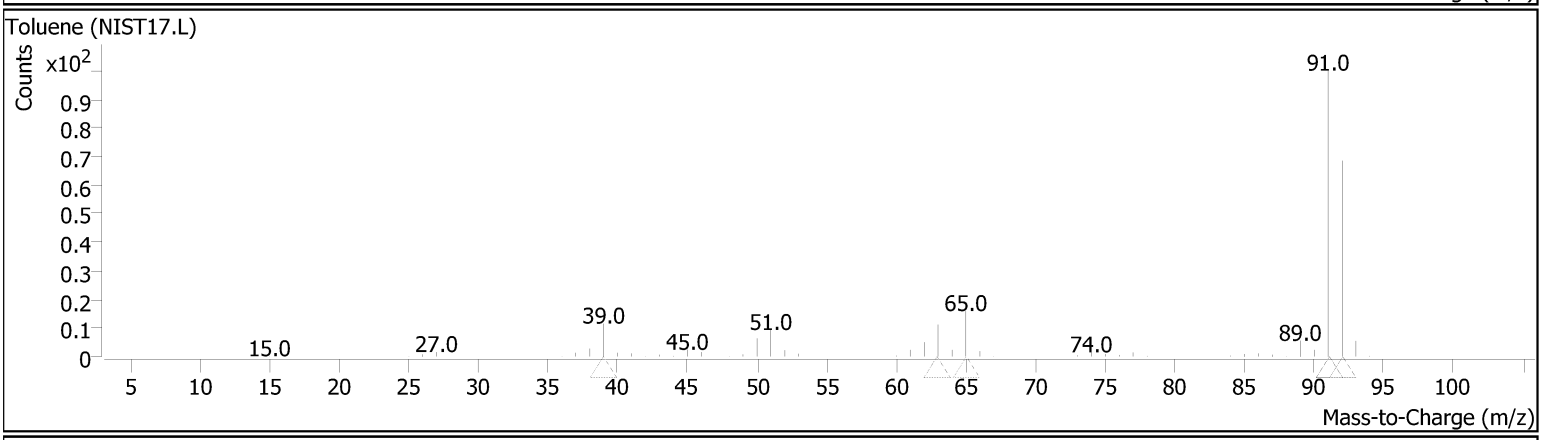



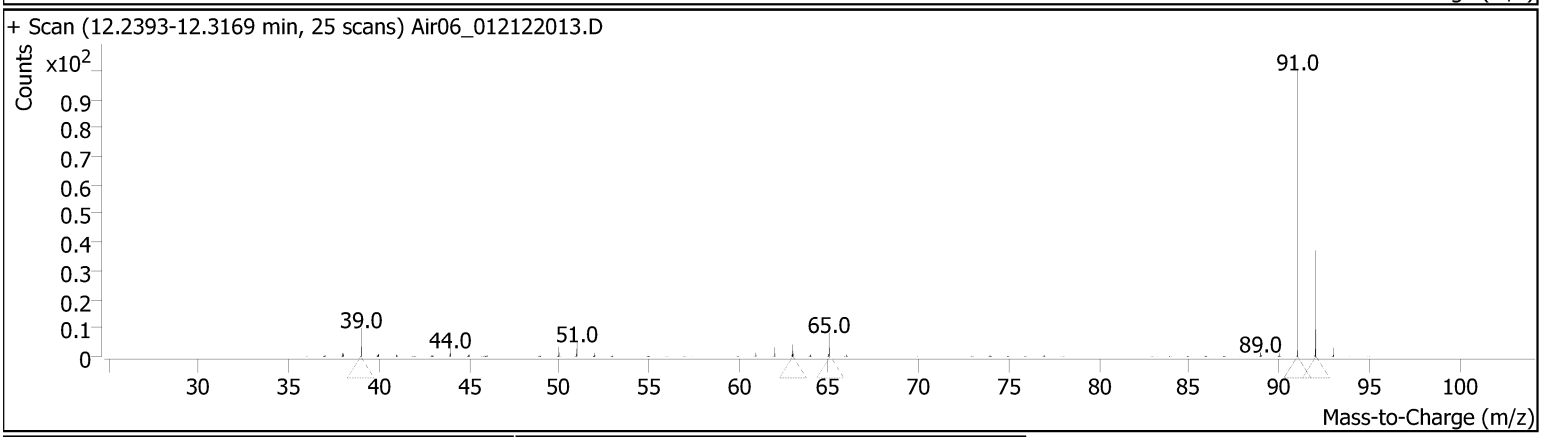



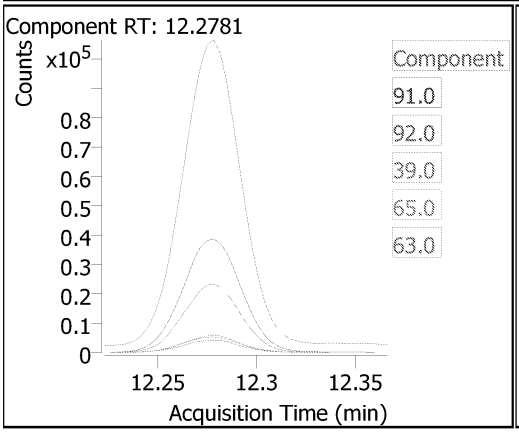


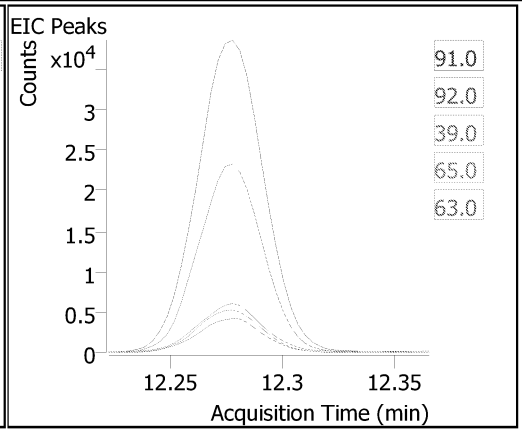

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.2781 | Toluene | 214667.6 | 99.4 | 108-88-3 | C7H8 | 0.4492 |

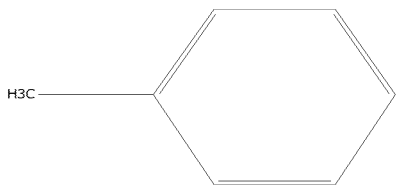


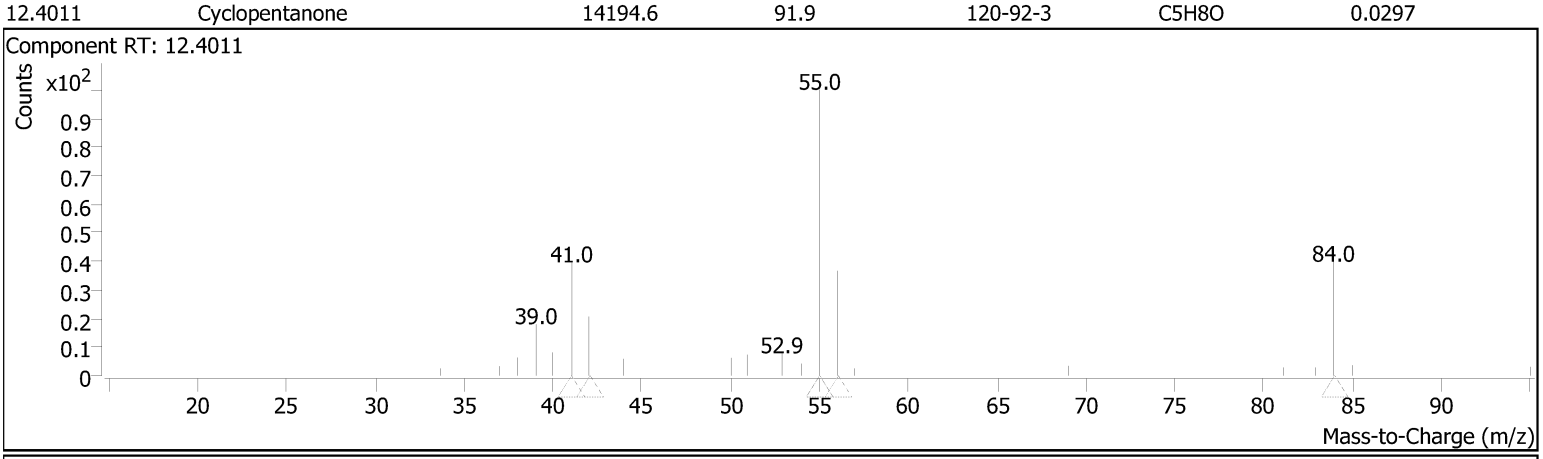



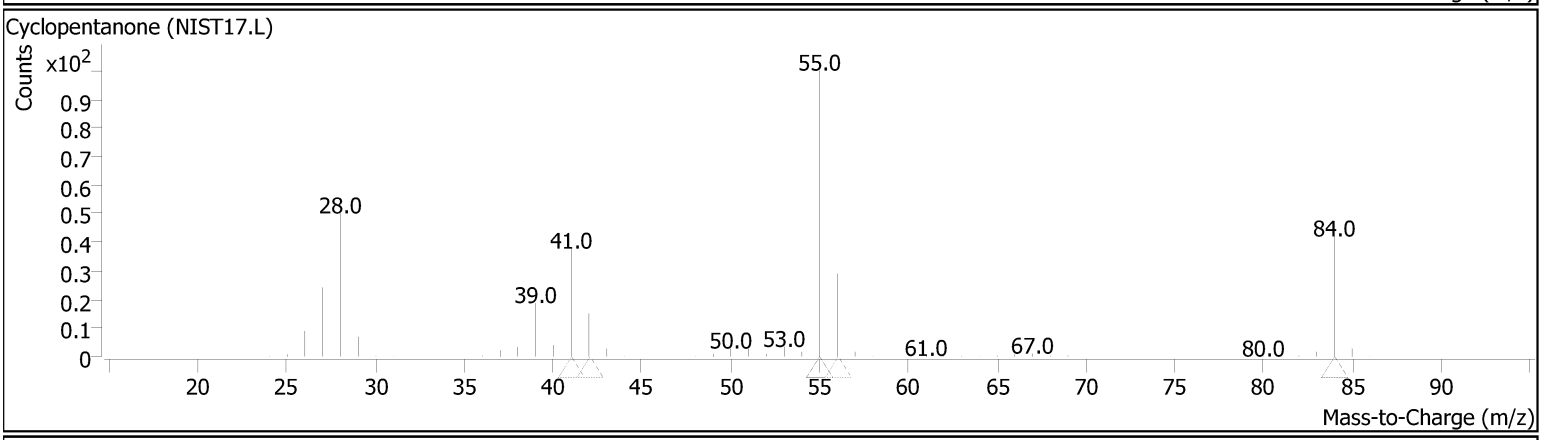



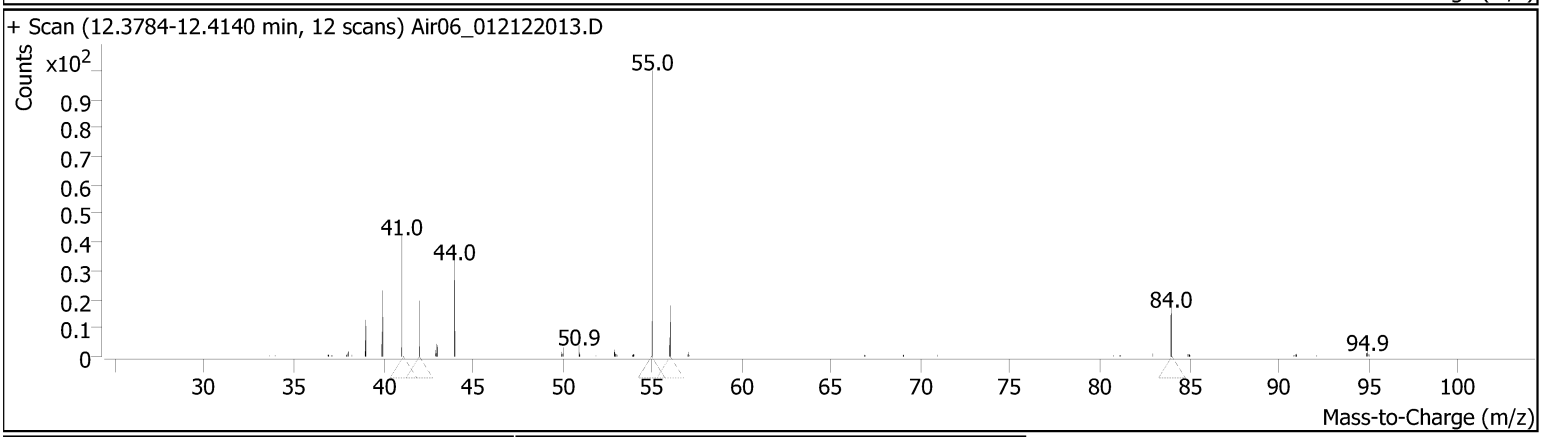



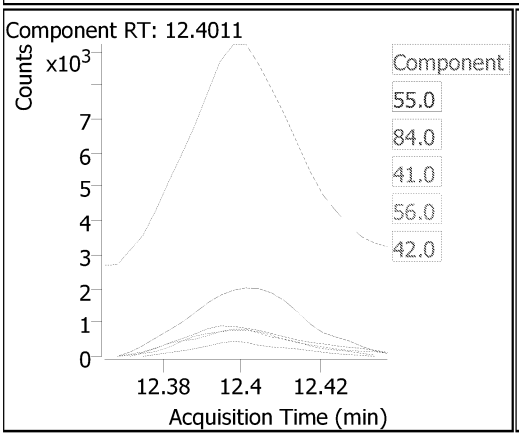



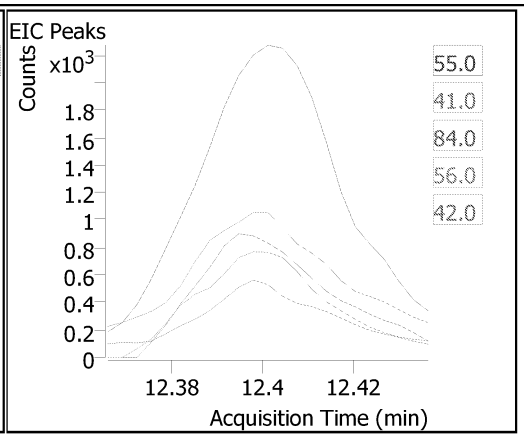
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.4011 | Cyclopentanone | 14194.6 | 91.9 | 120-92-3 | C5H8O | 0.0297 |

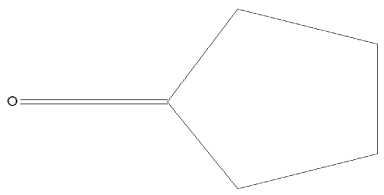


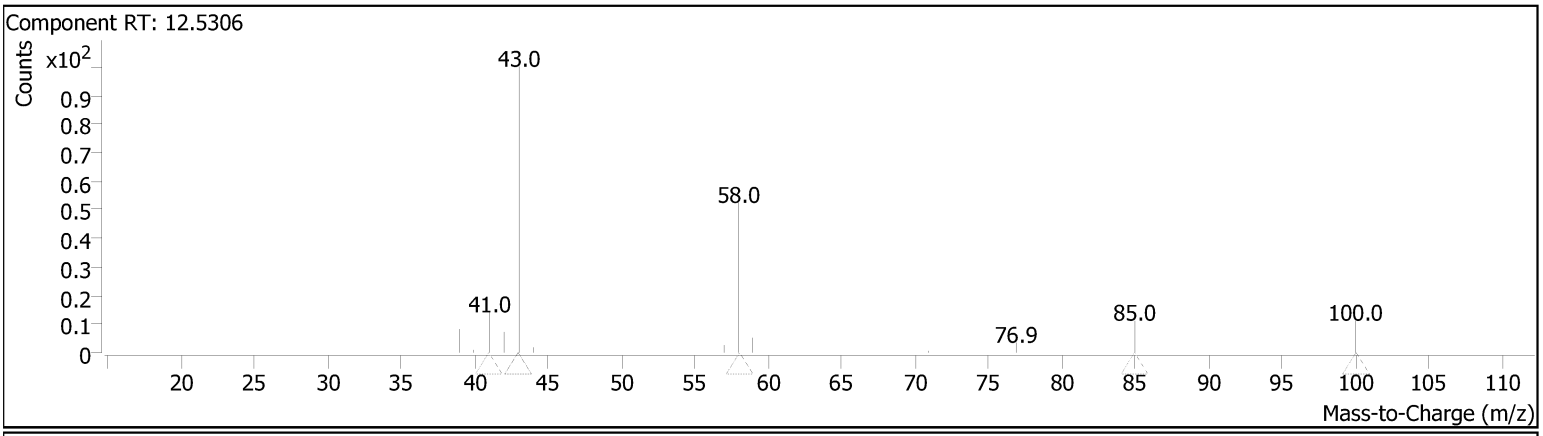



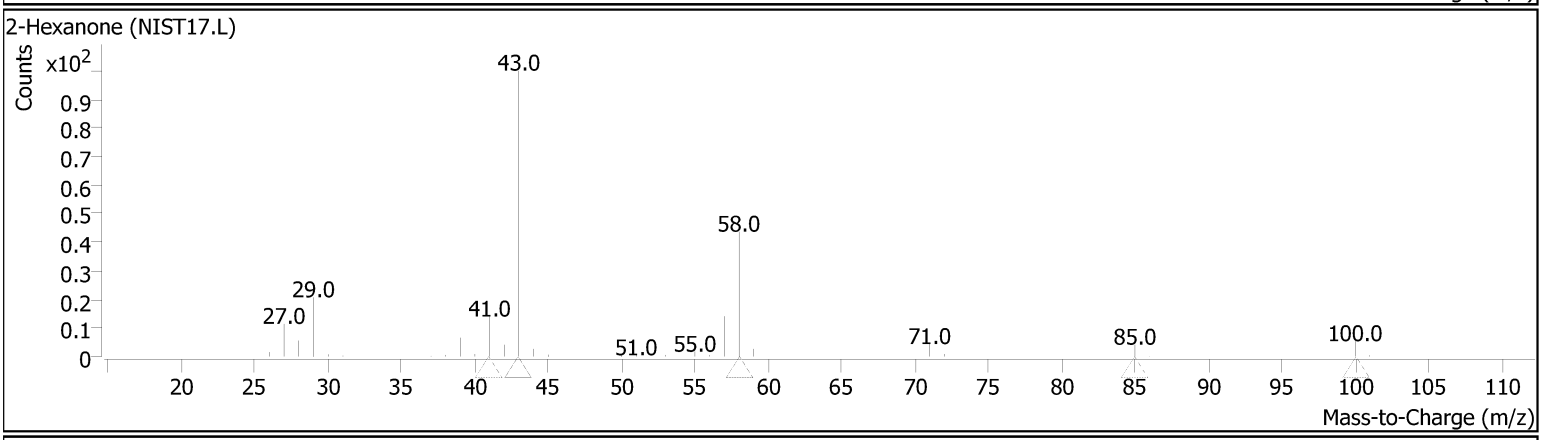



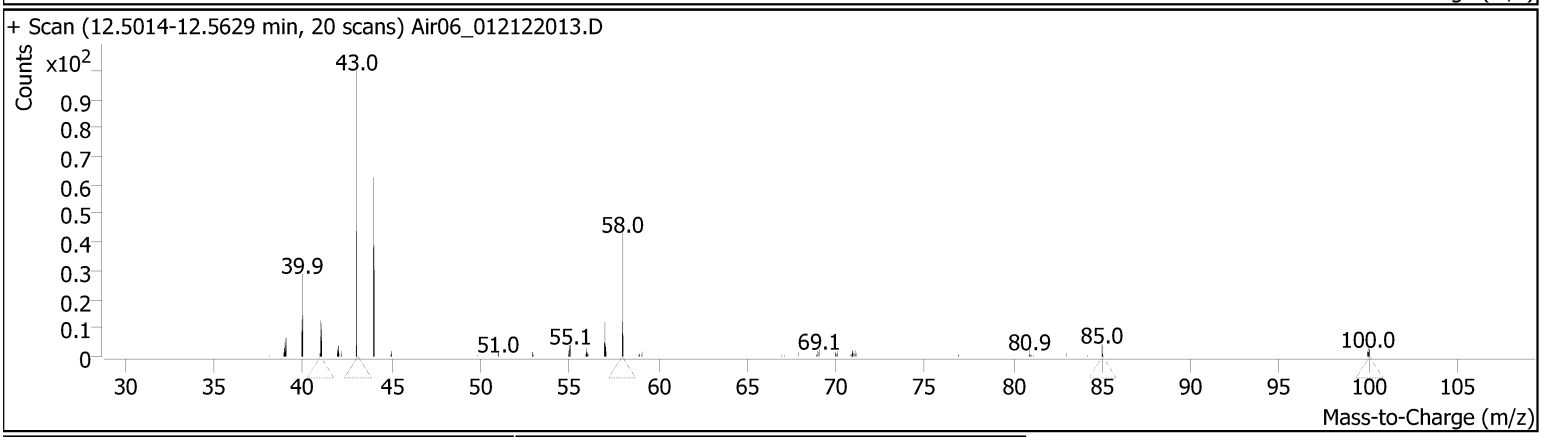



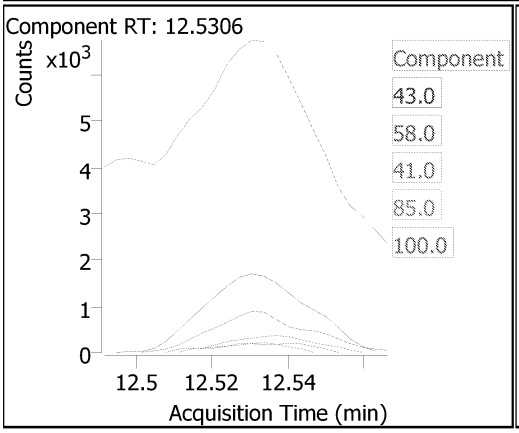



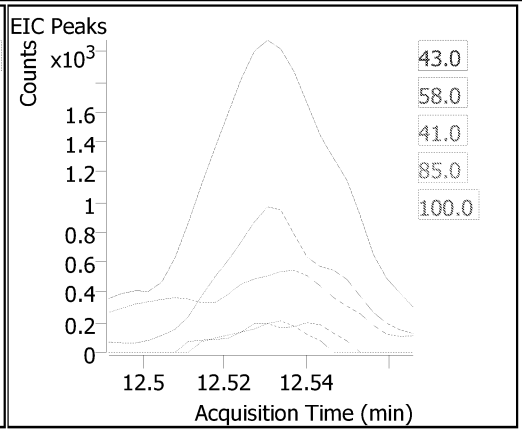
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.5306 | 2-Hexanone | 11016.2 | 88.0 | 591-78-6 | C6H12O | 0.02305 |

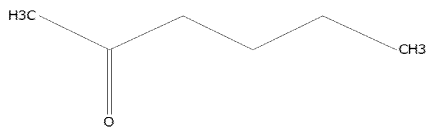


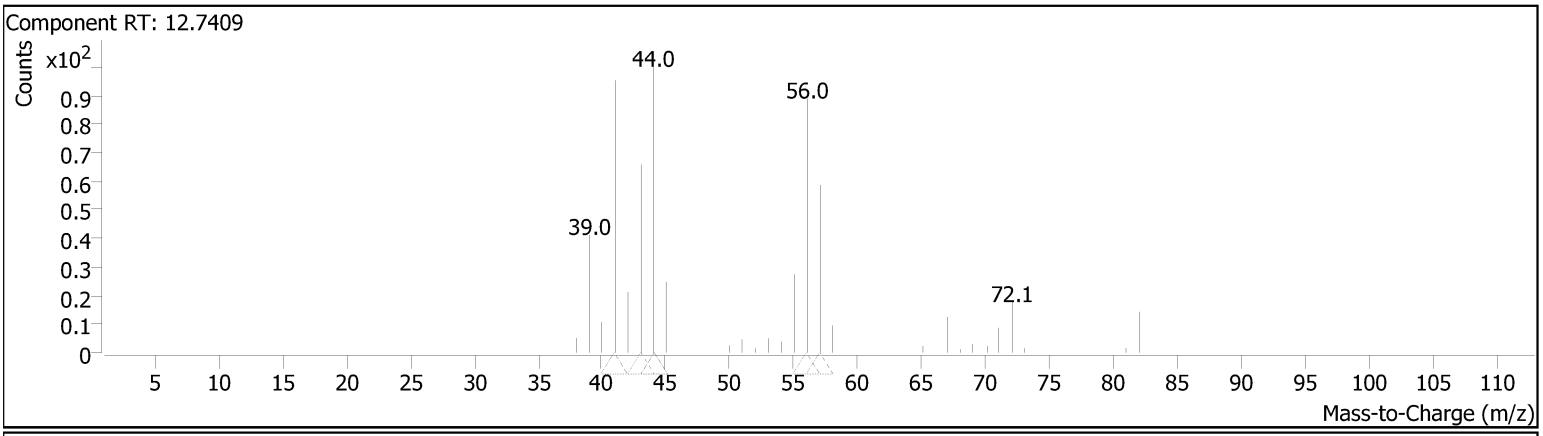



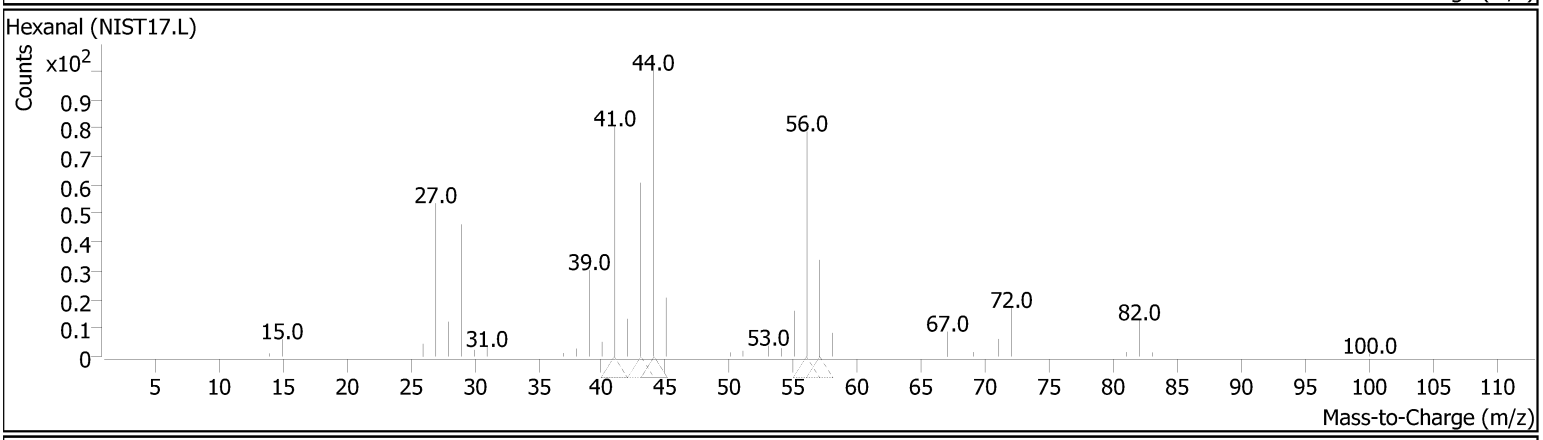



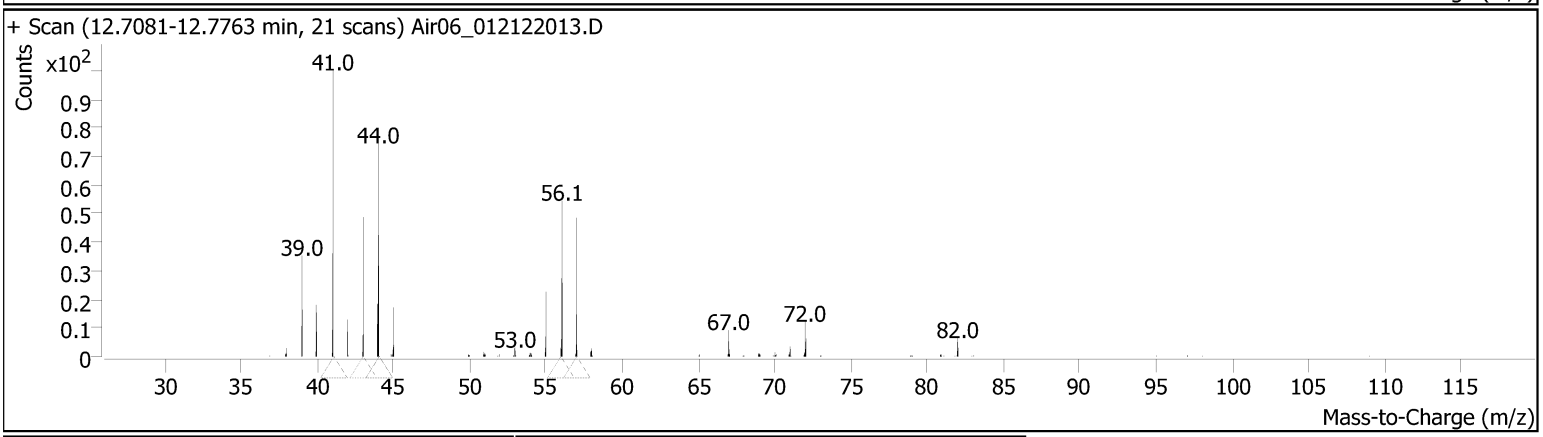



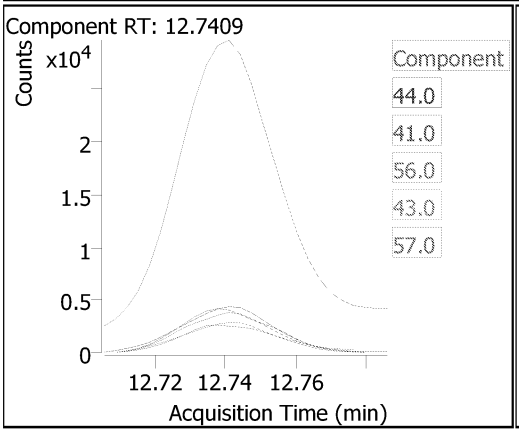



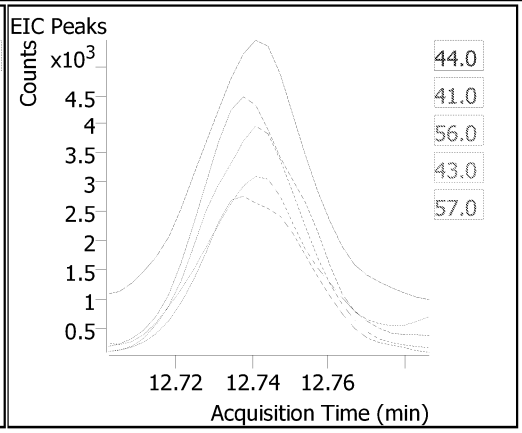
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.7409 | Hexanal | 55890.0 | 96.8 | 66-25-1 | C6H12O | 0.117 |



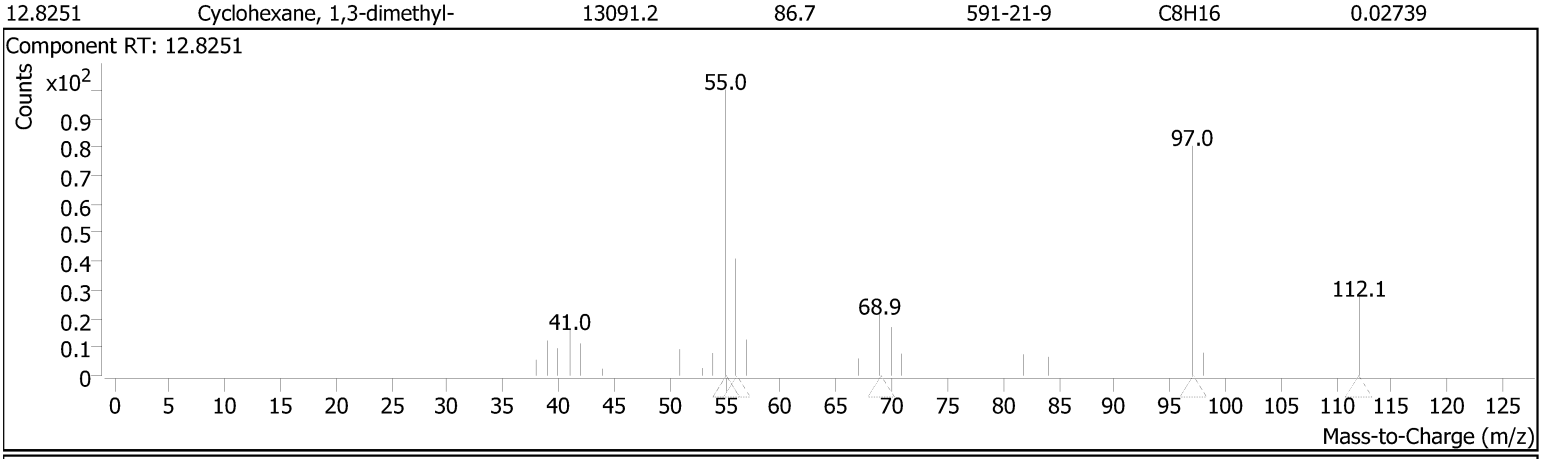



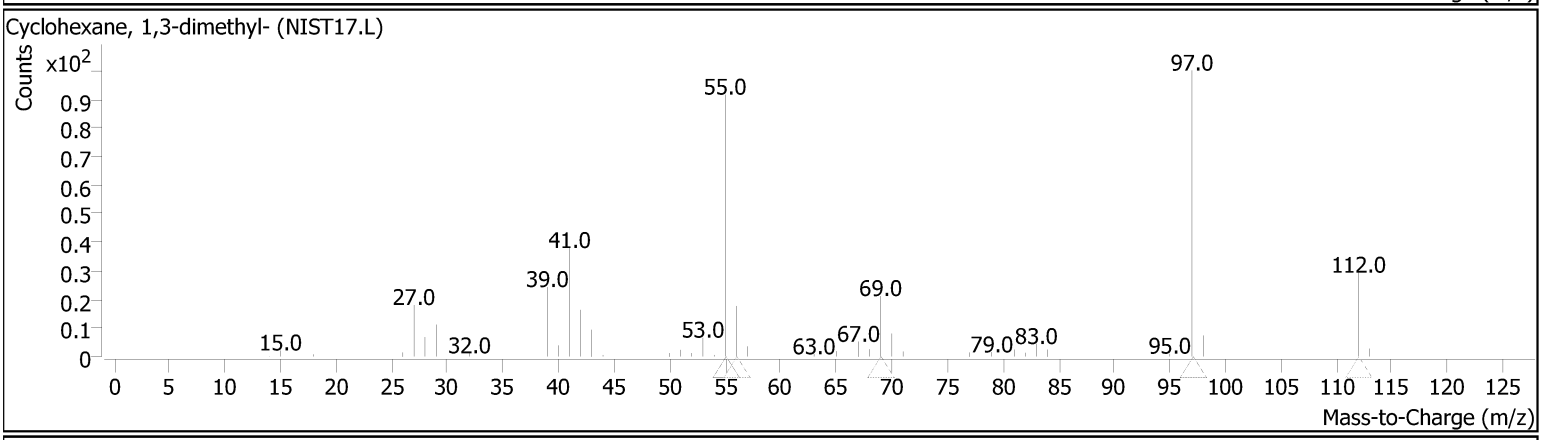



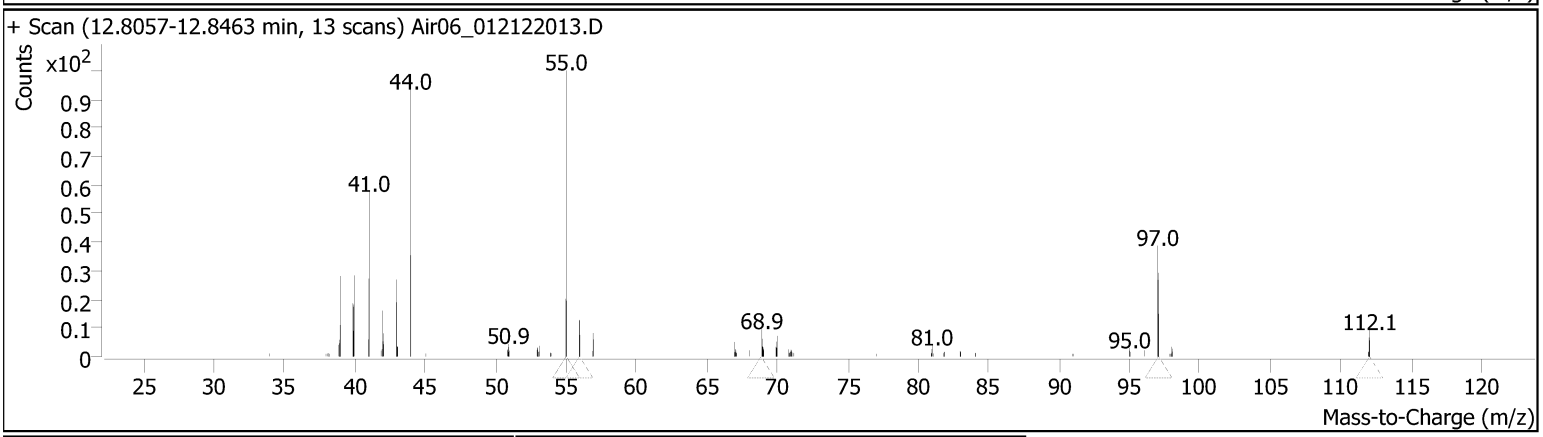



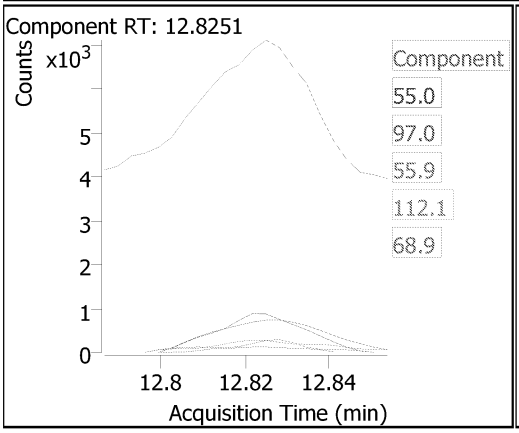


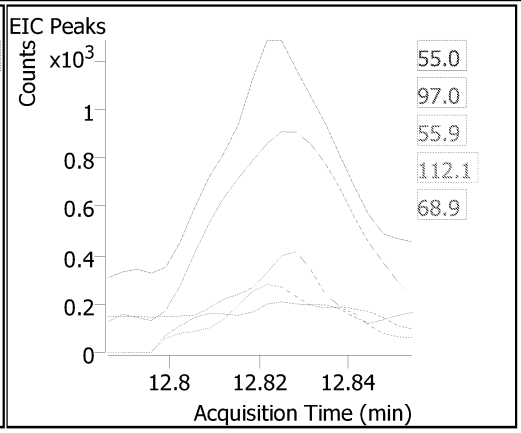

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.8251 | Cyclohexane, 1,3-dimethyl- | 13091.2 | 86.7 | 591-21-9 | C8H16 | 0.02739 |

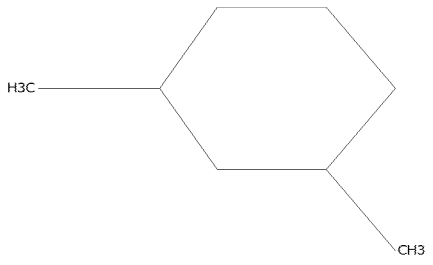


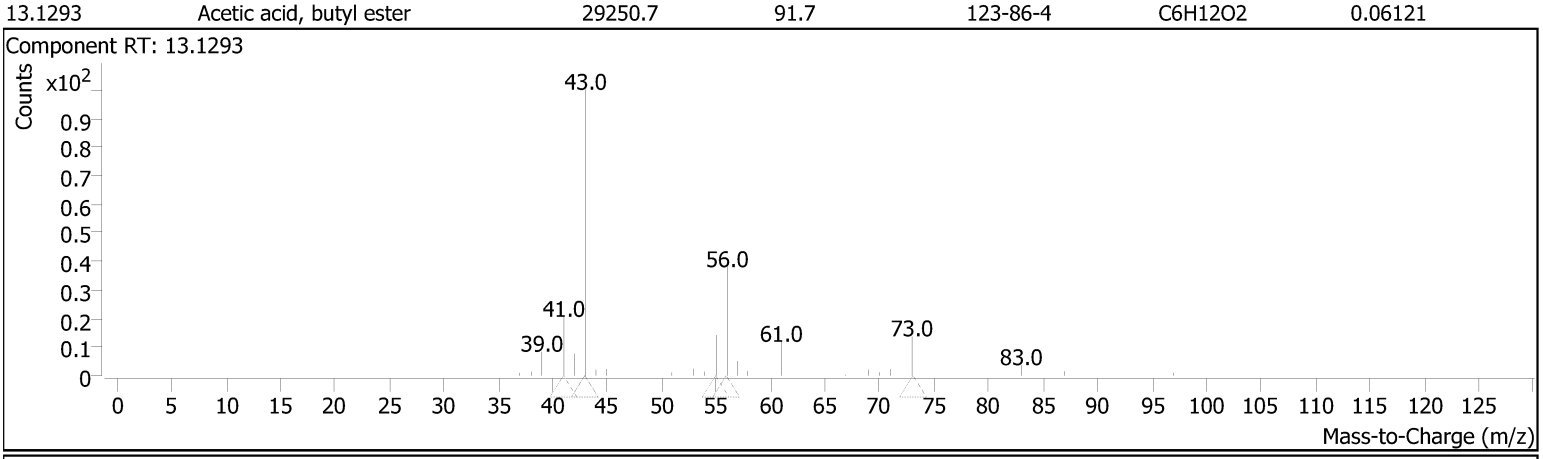



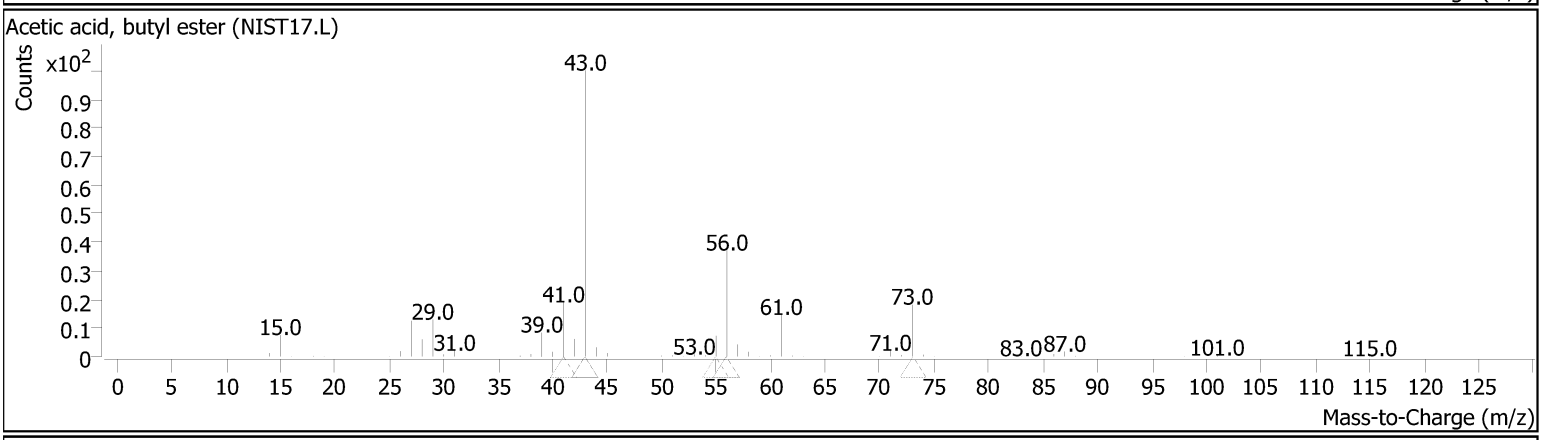



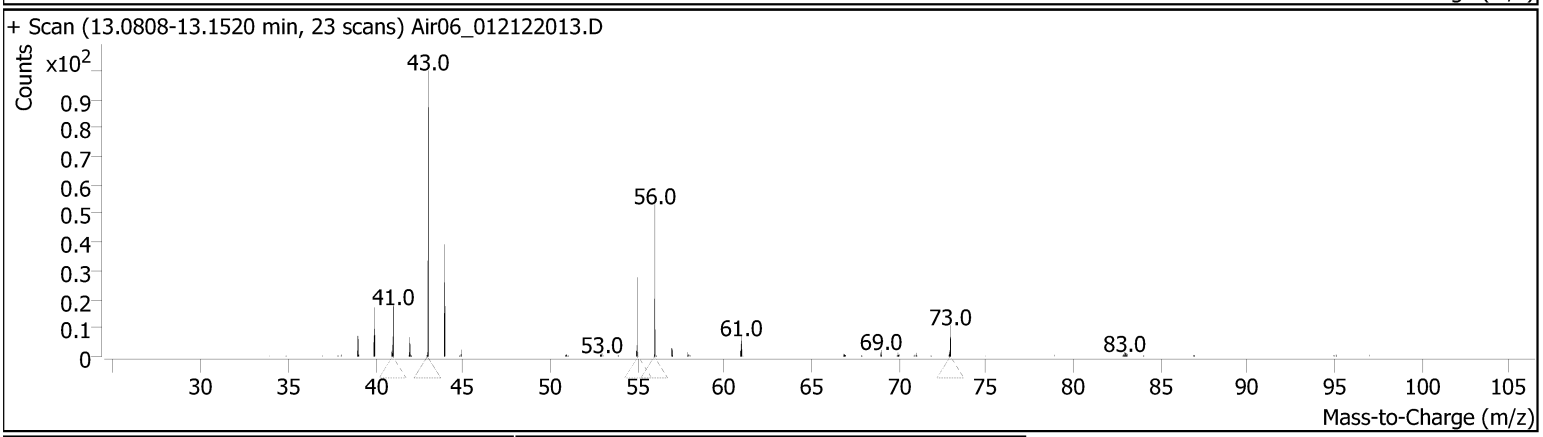



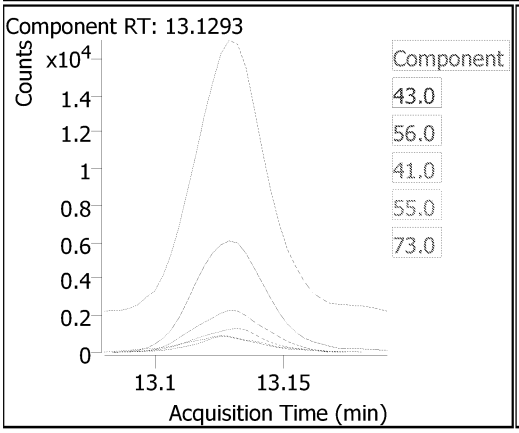



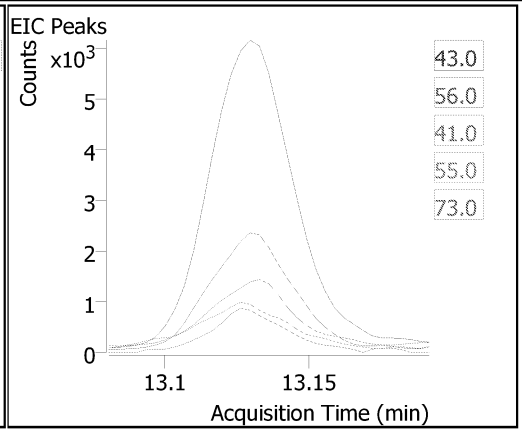
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.1293 | Acetic acid, butyl ester | 29250.7 | 91.7 | 123-86-4 | C6H12O2 | 0.06121 |

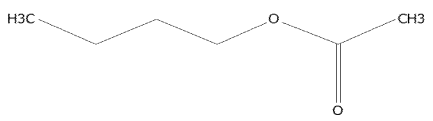


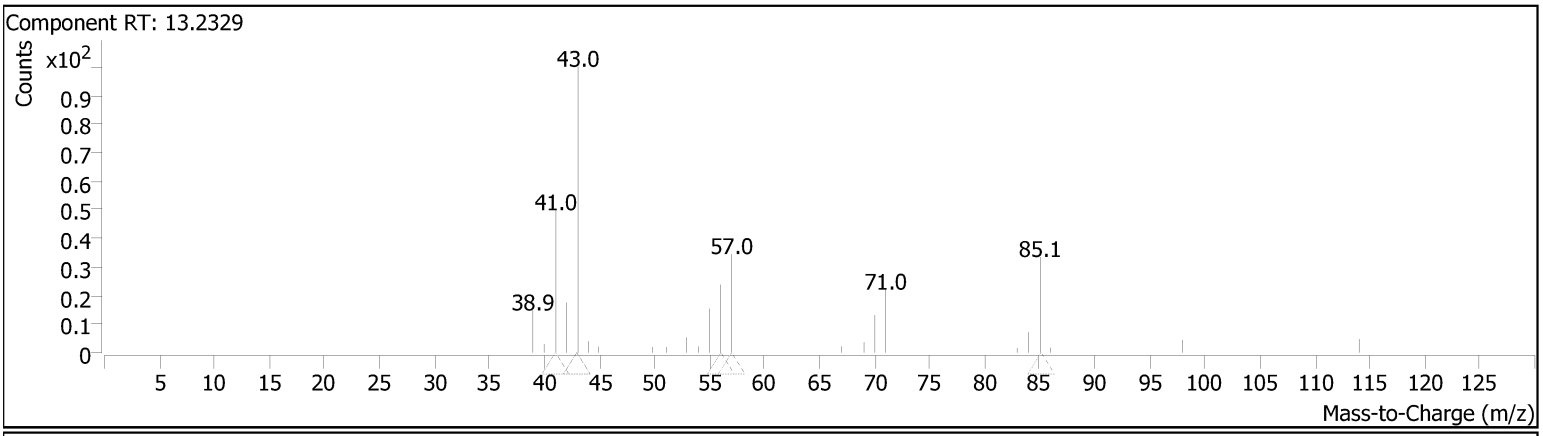



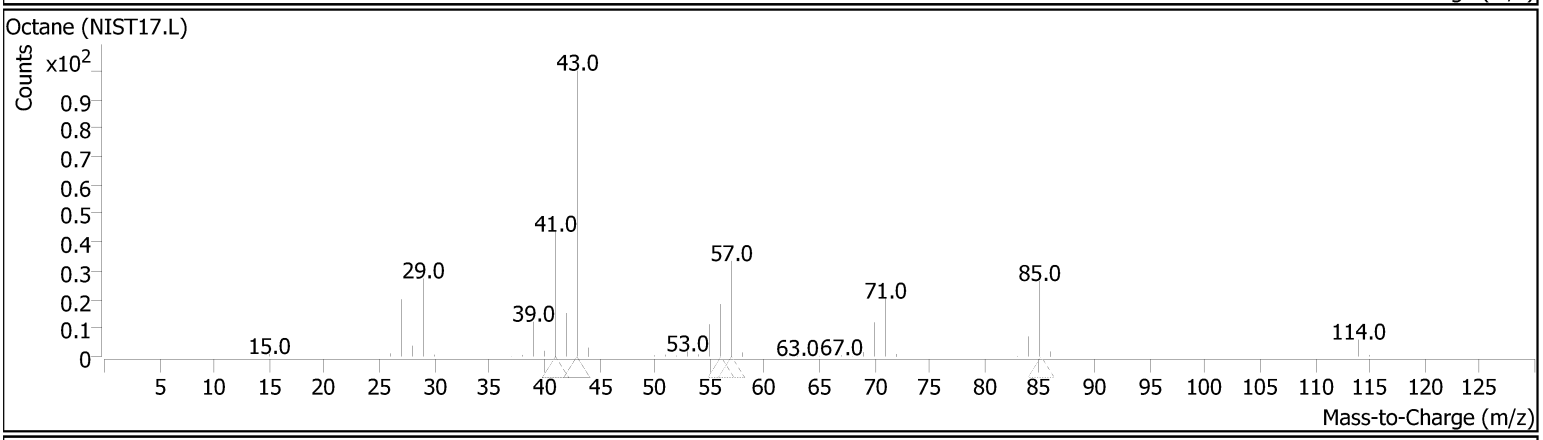



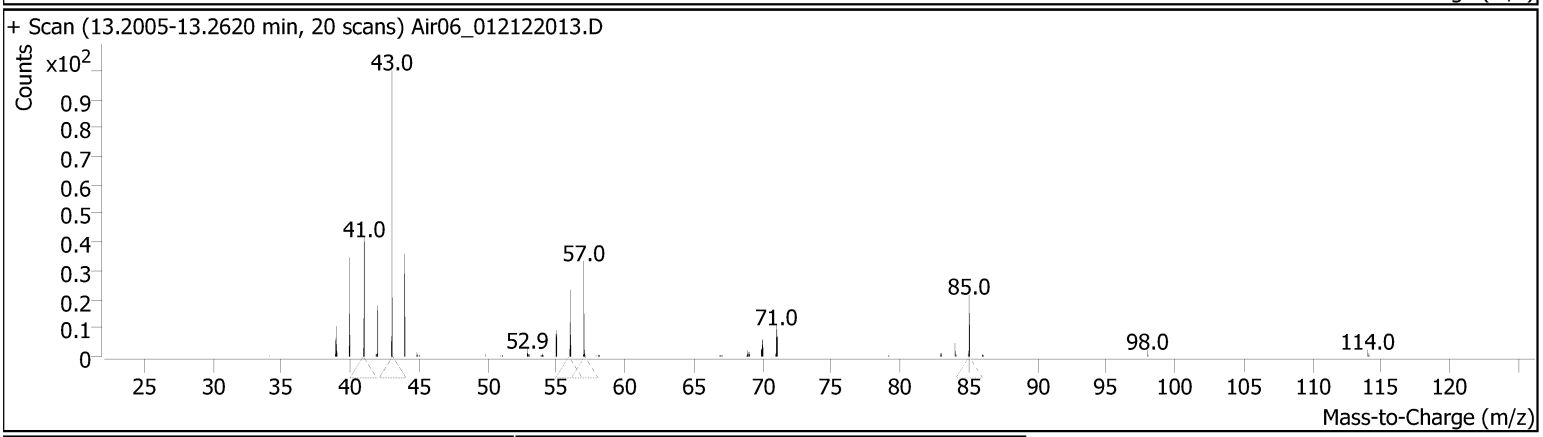



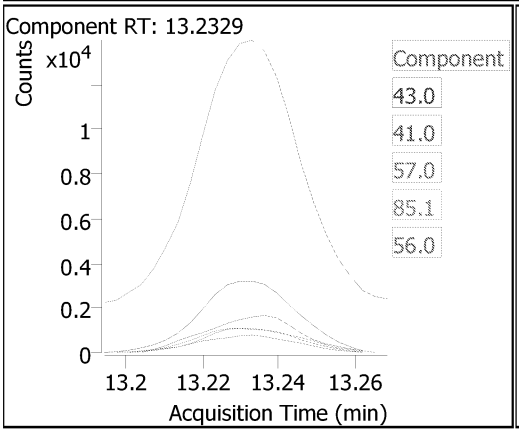



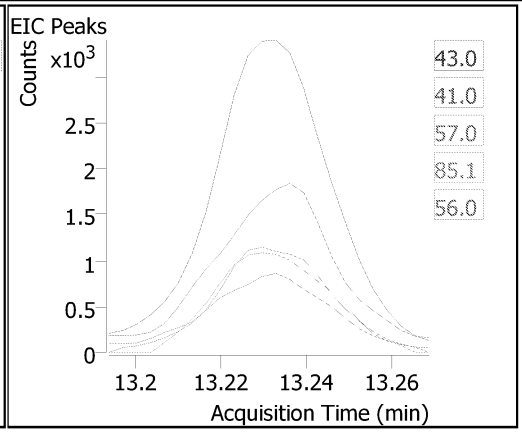
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.2329 | Octane | 22109.5 | 95.1 | 111-65-9 | C8H18 | 0.04626 |



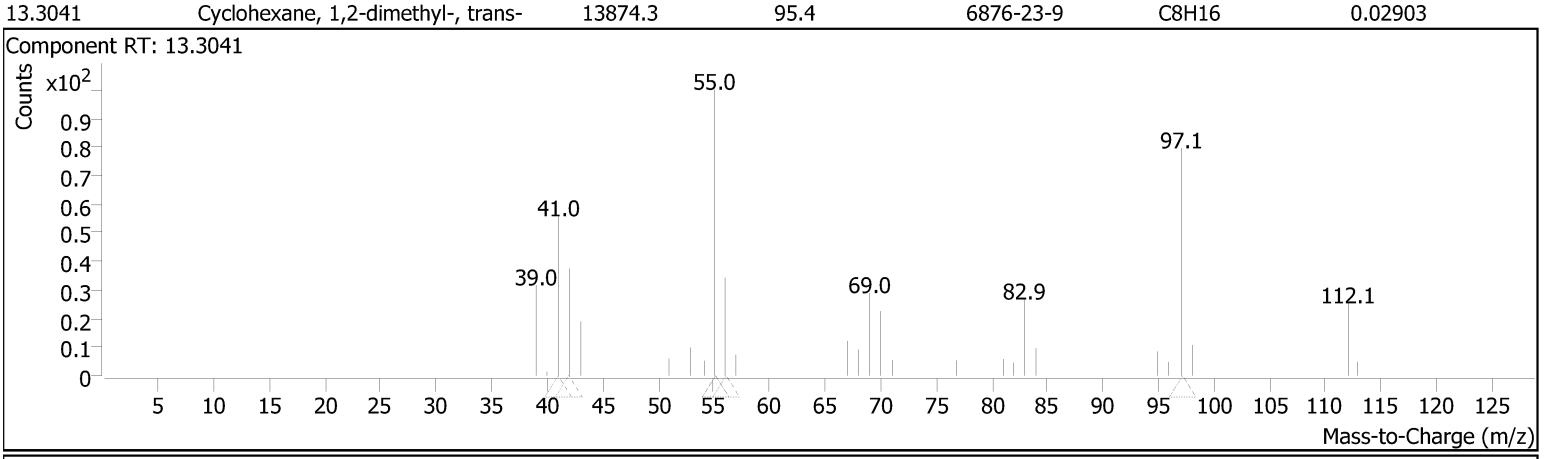



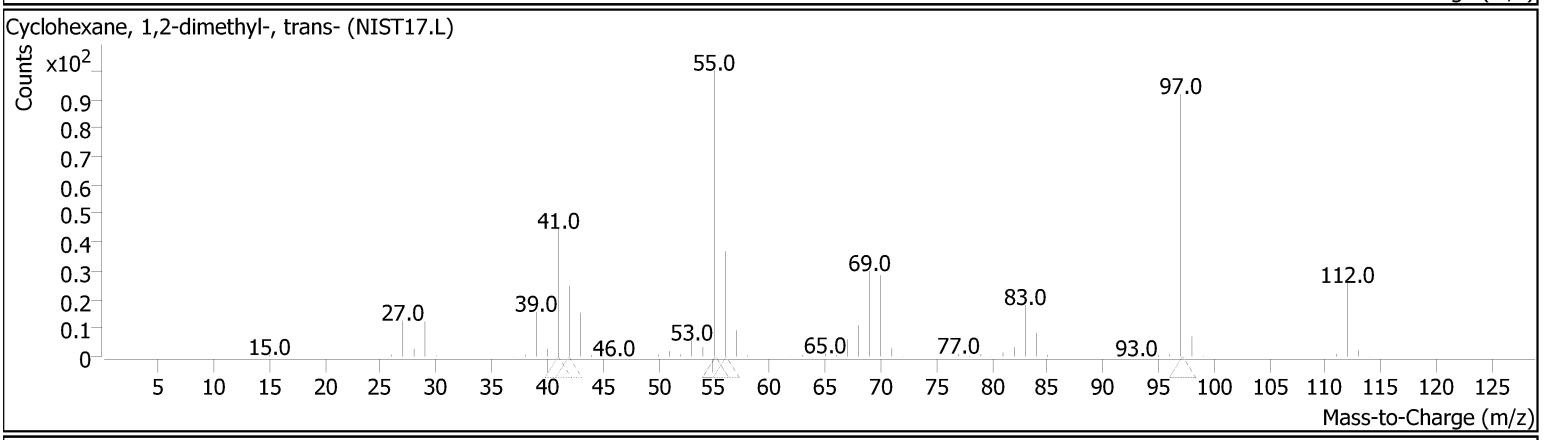



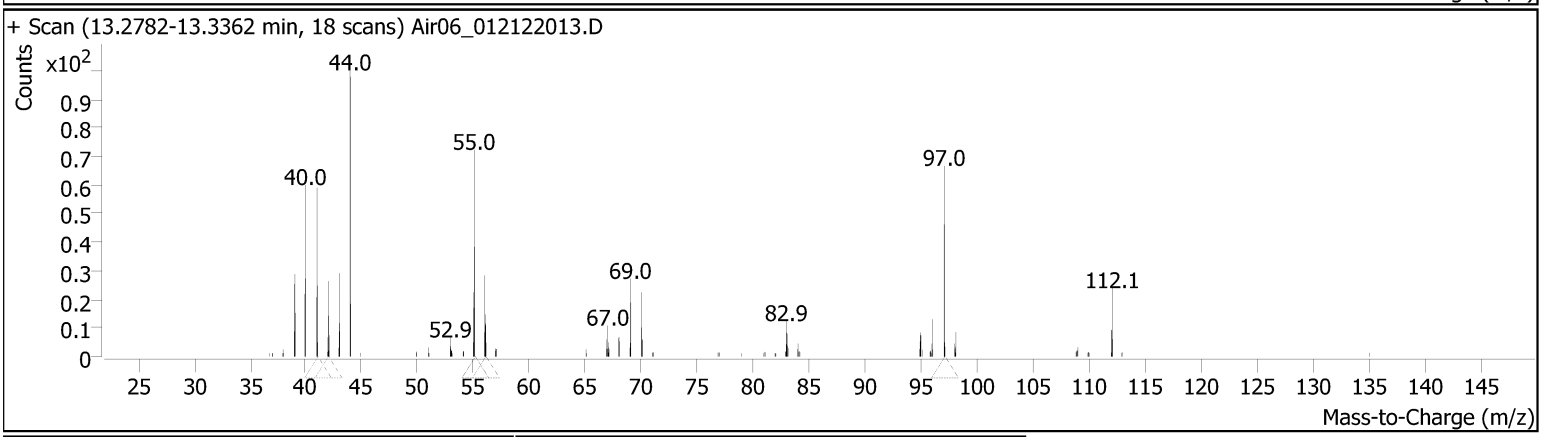



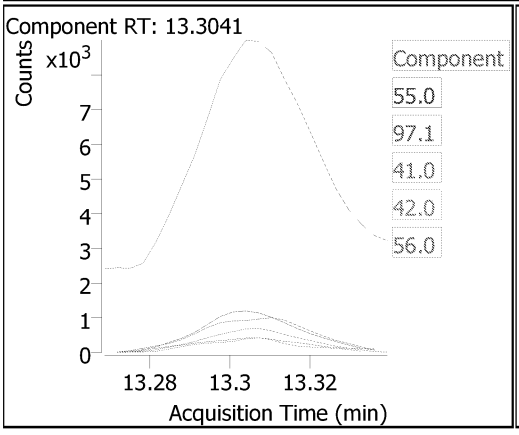


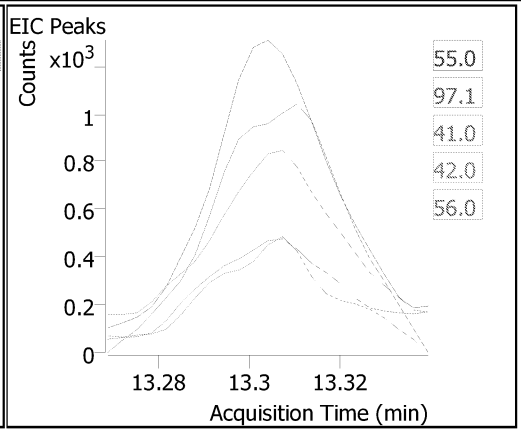

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3041 | Cyclohexane, 1,2-dimethyl-, trans- | 13874.3 | 95.4 | 6876-23-9 | C8H16 | 0.02903 |

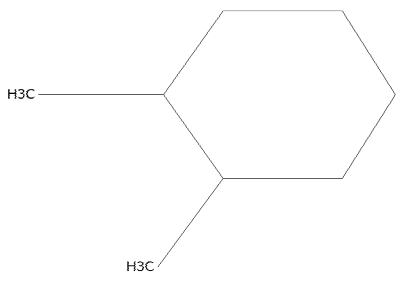


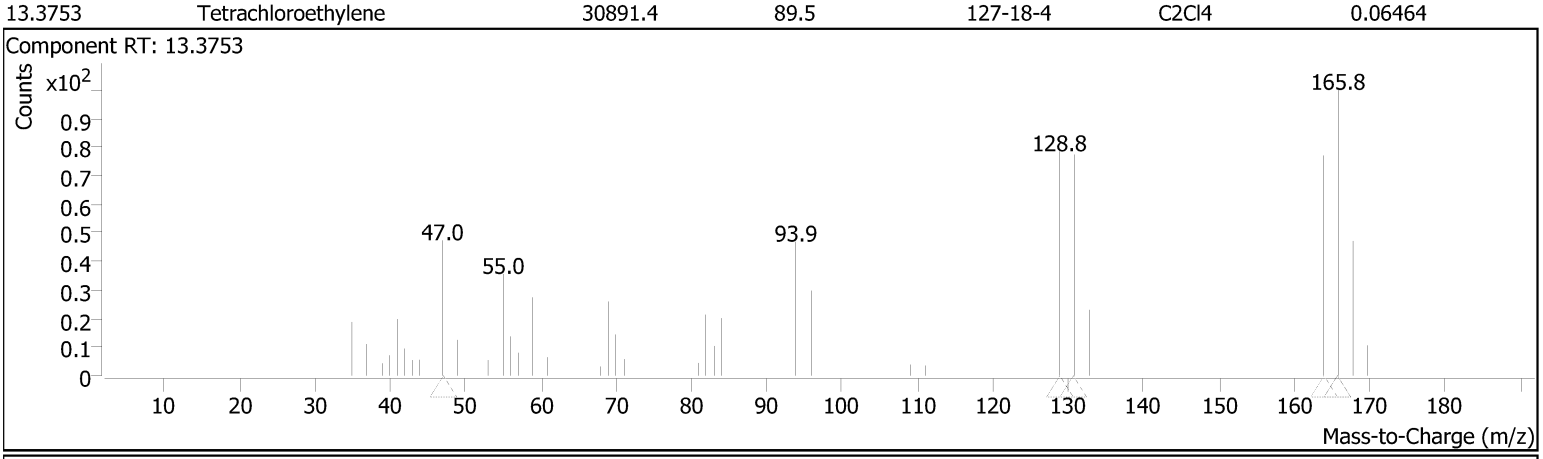



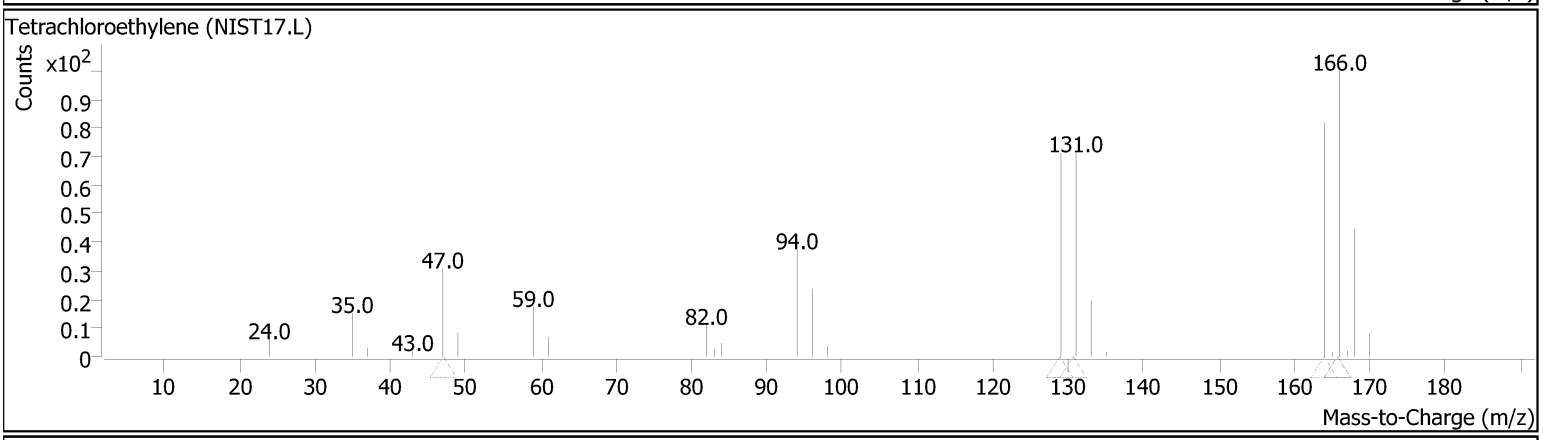



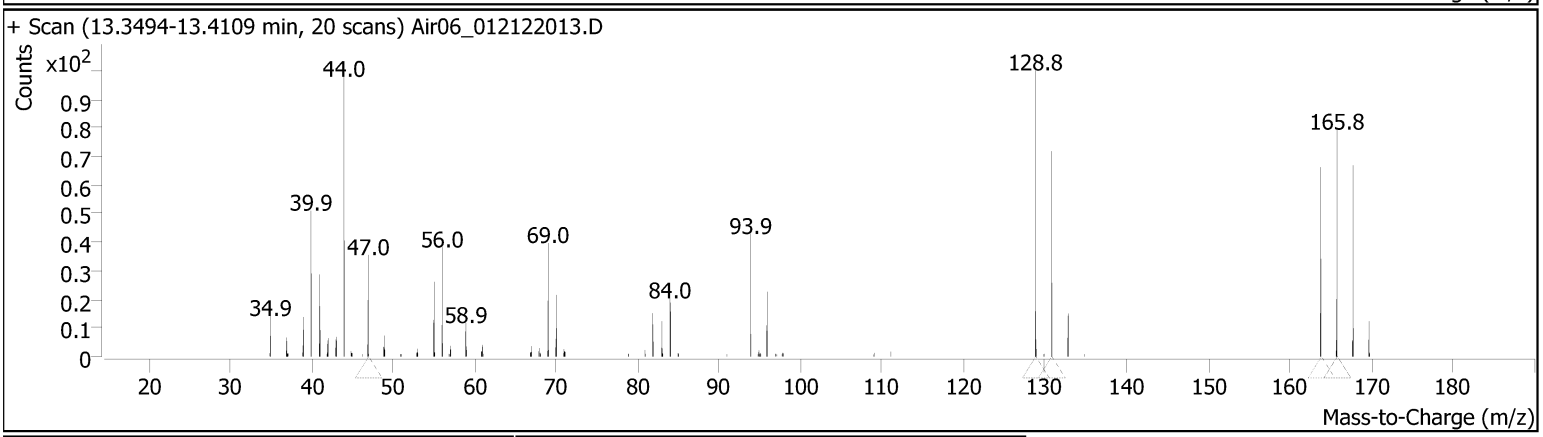



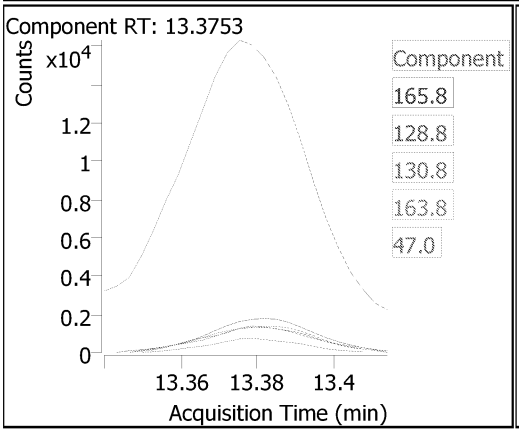



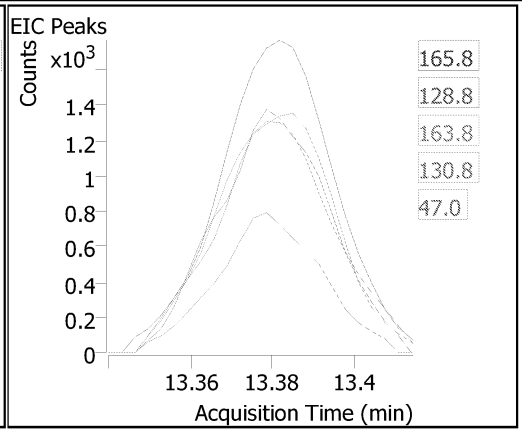
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3753 | Tetrachloroethylene | 30891.4 | 89.5 | 127-18-4 | C2Cl4 | 0.06464 |

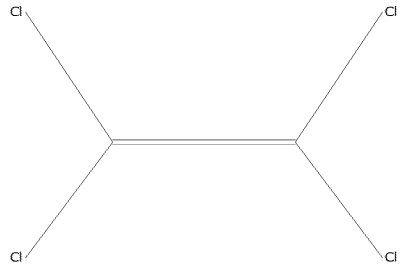


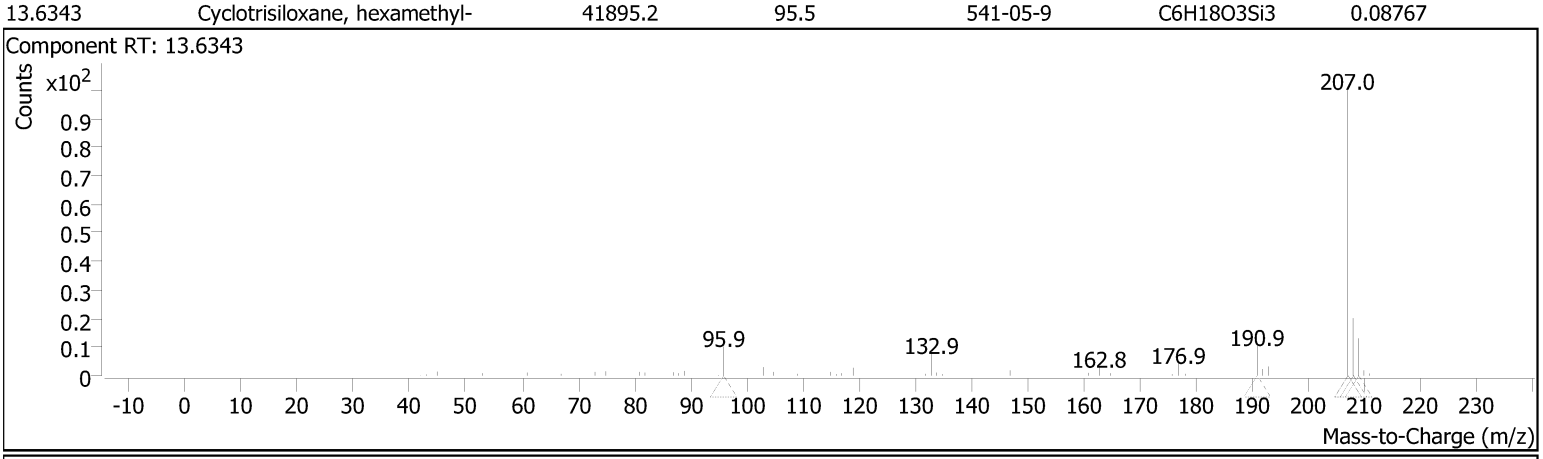



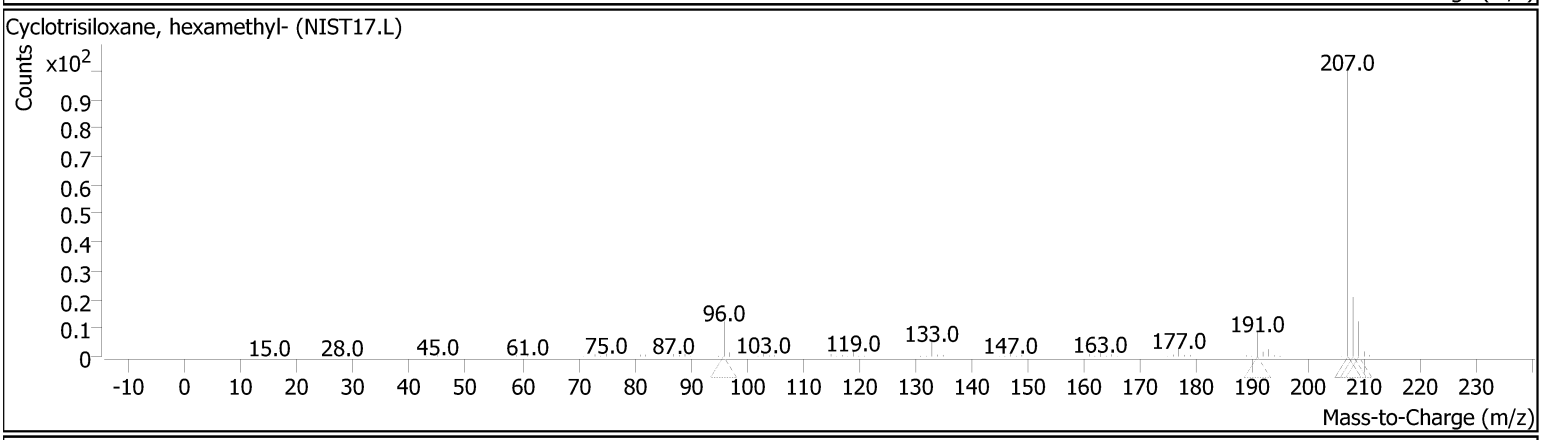



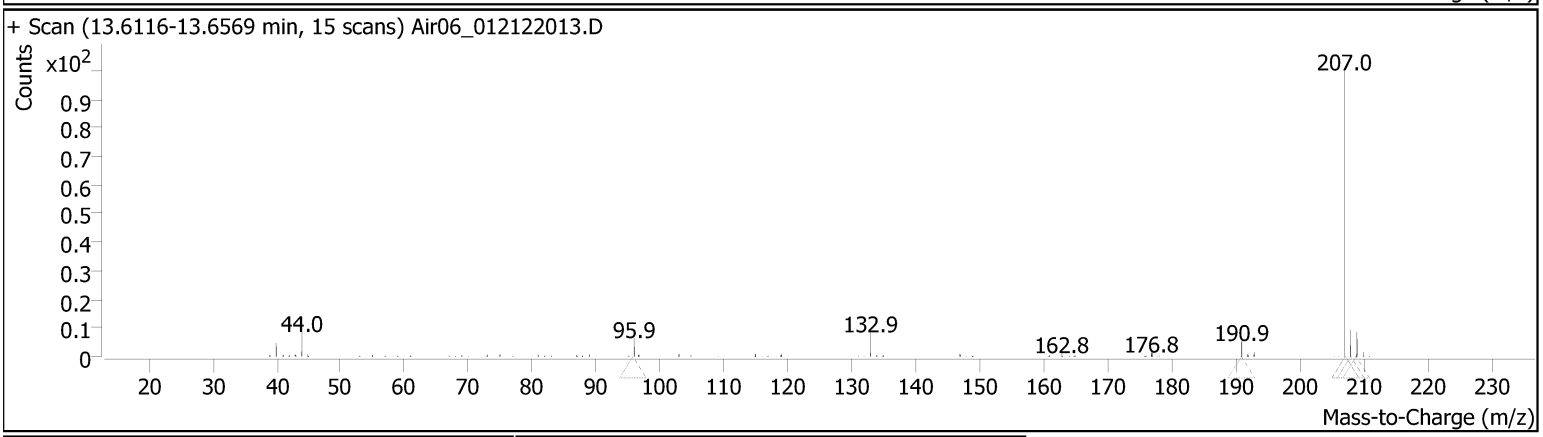



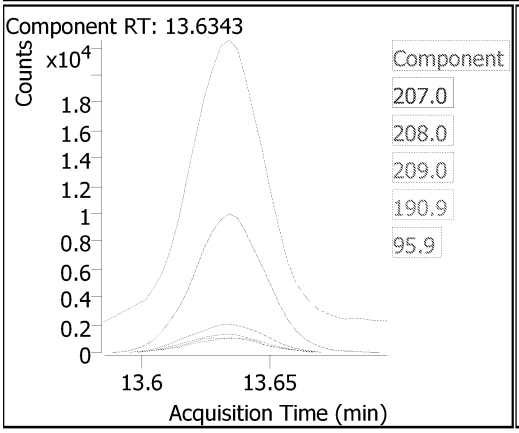



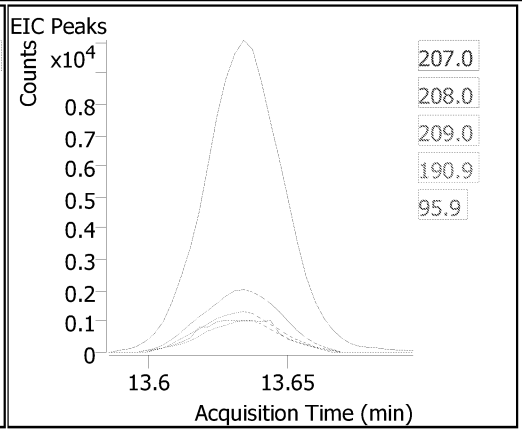
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.6343 | Cyclotrisiloxane, hexamethyl- | 41895.2 | 95.5 | 541-05-9 | C6H18O3Si3 | 0.08767 |

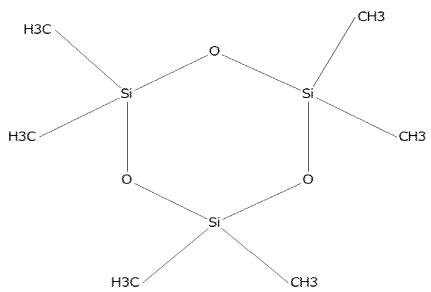


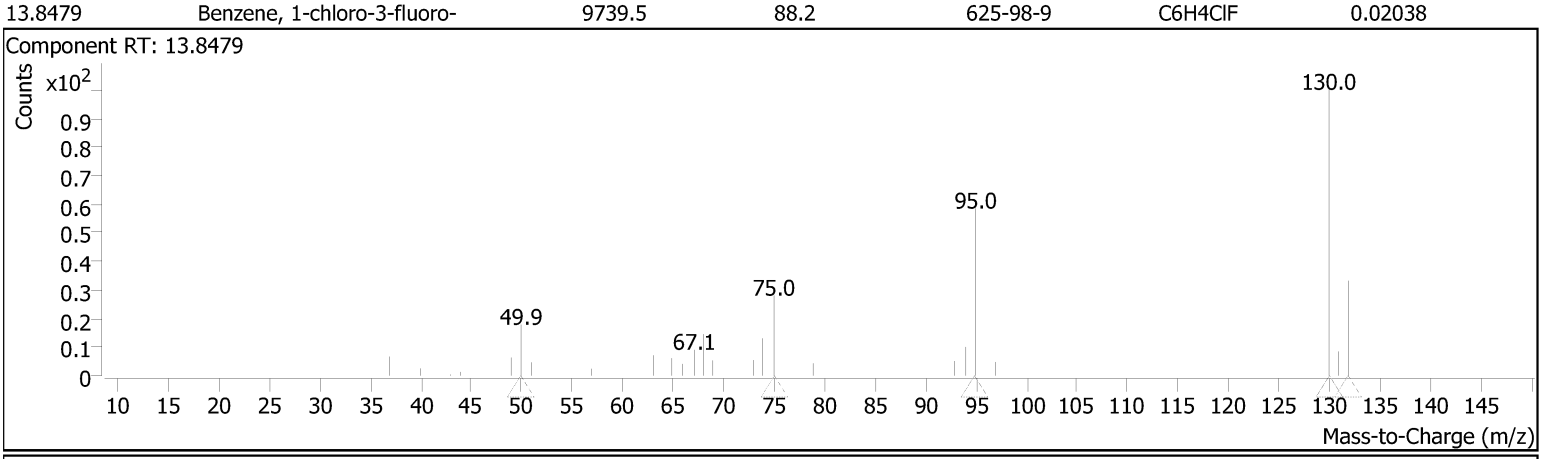



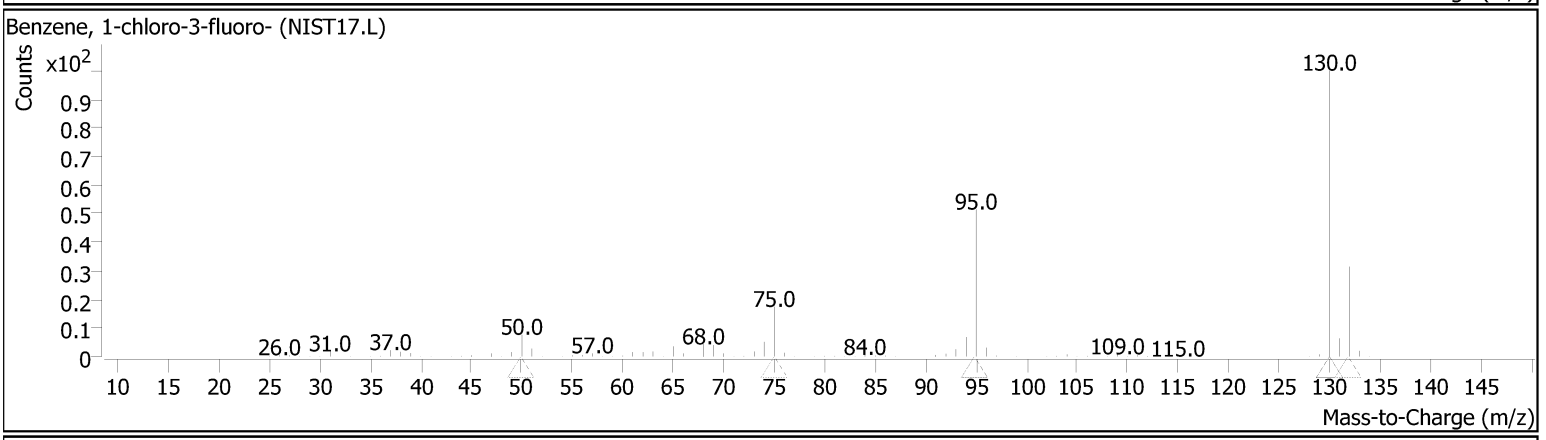



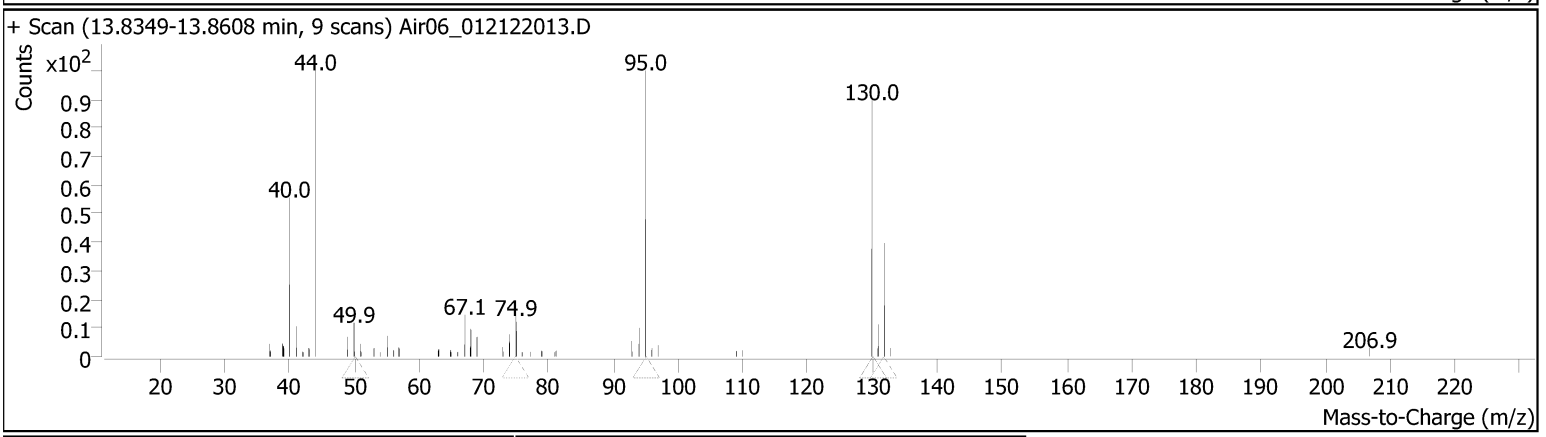



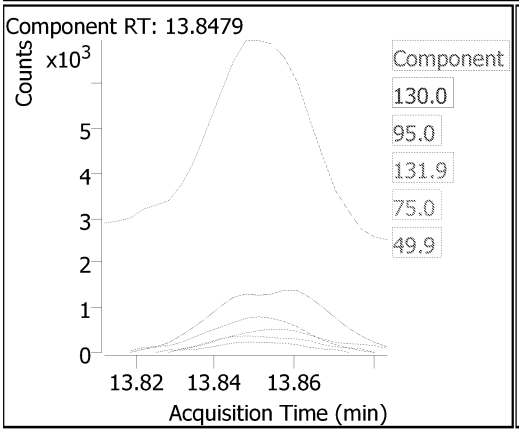



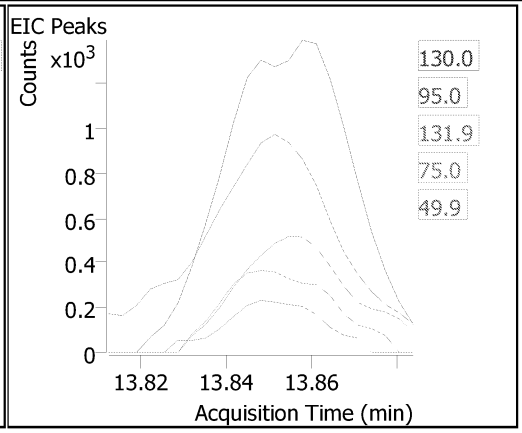
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.8479 | Benzene, 1-chloro-3-fluoro- | 9739.5 | 88.2 | 625-98-9 | C6H4ClF | 0.02038 |

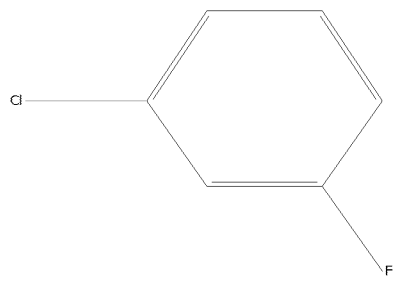


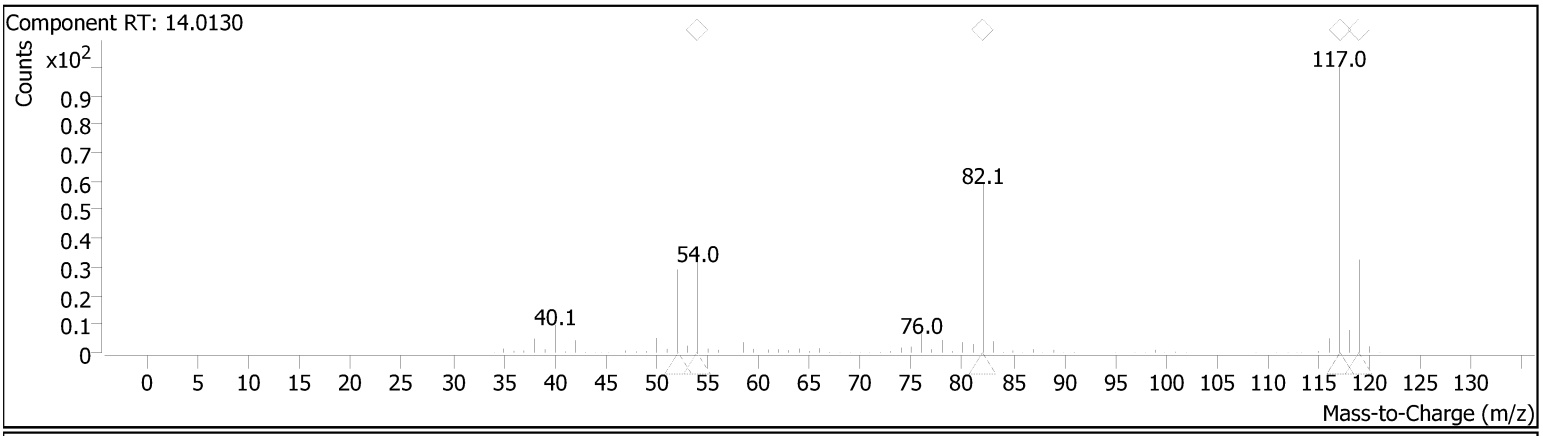



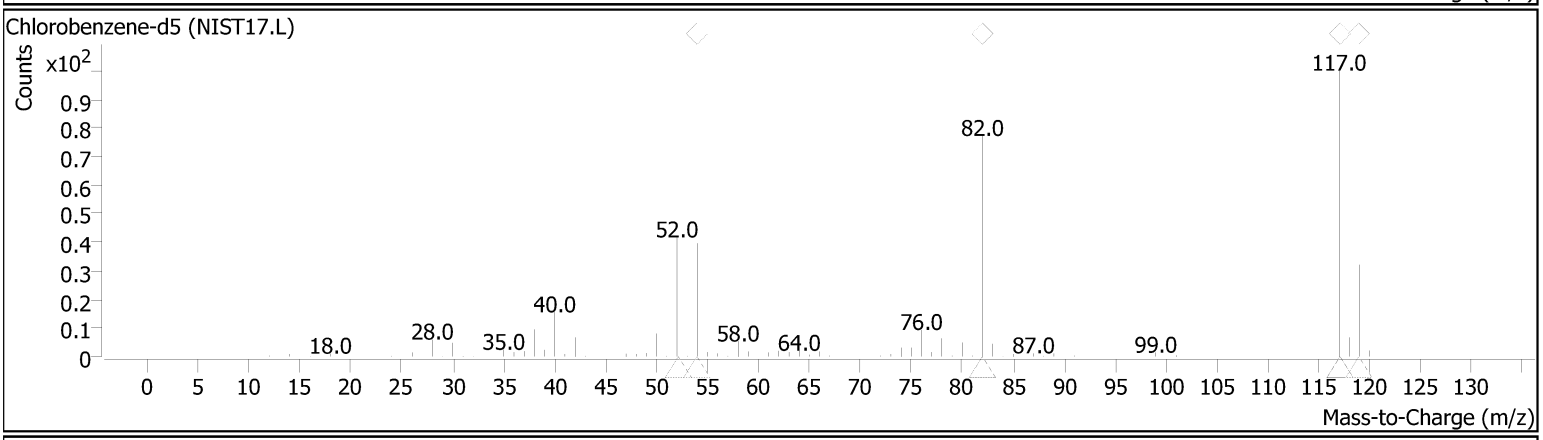



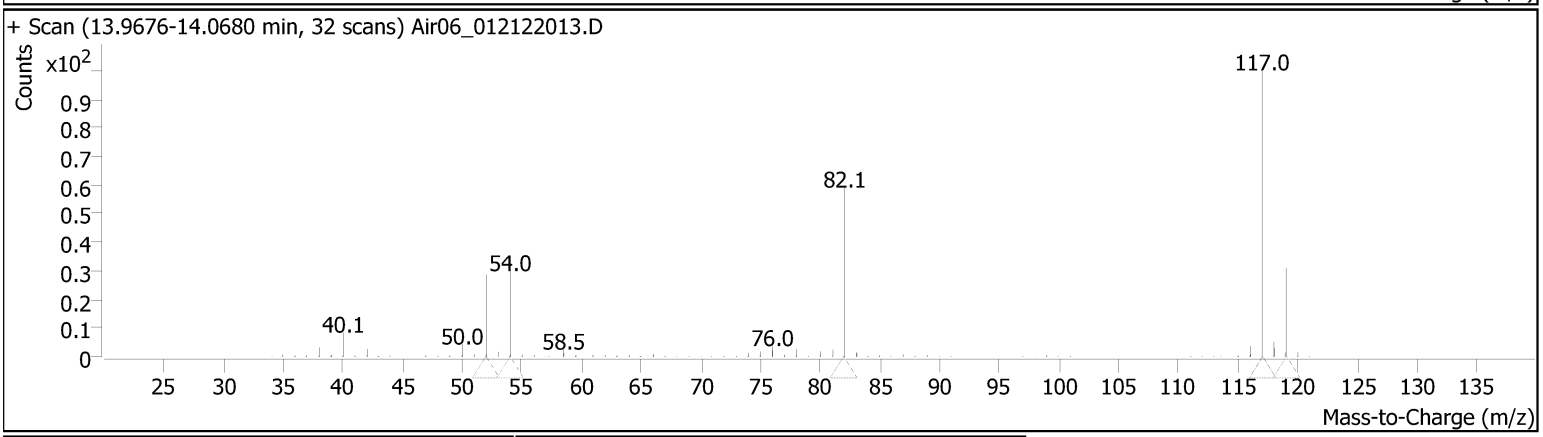



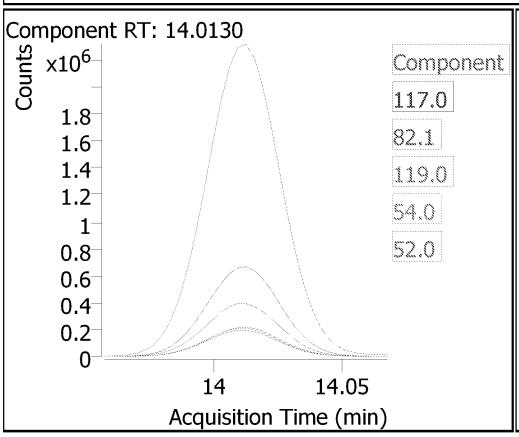



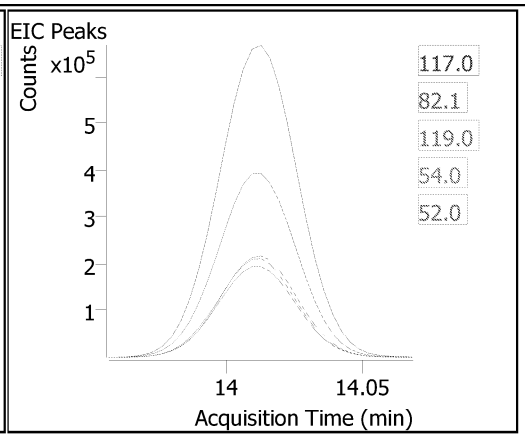
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0130 | Chlorobenzene-d5 | 4778910.3 | 95.5 | 3114-55-4 | C6D5Cl | 10 |

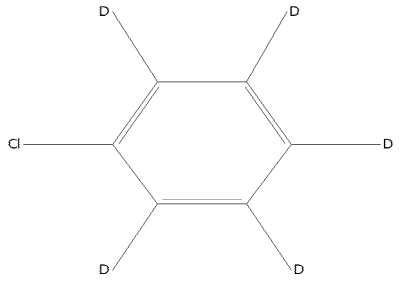


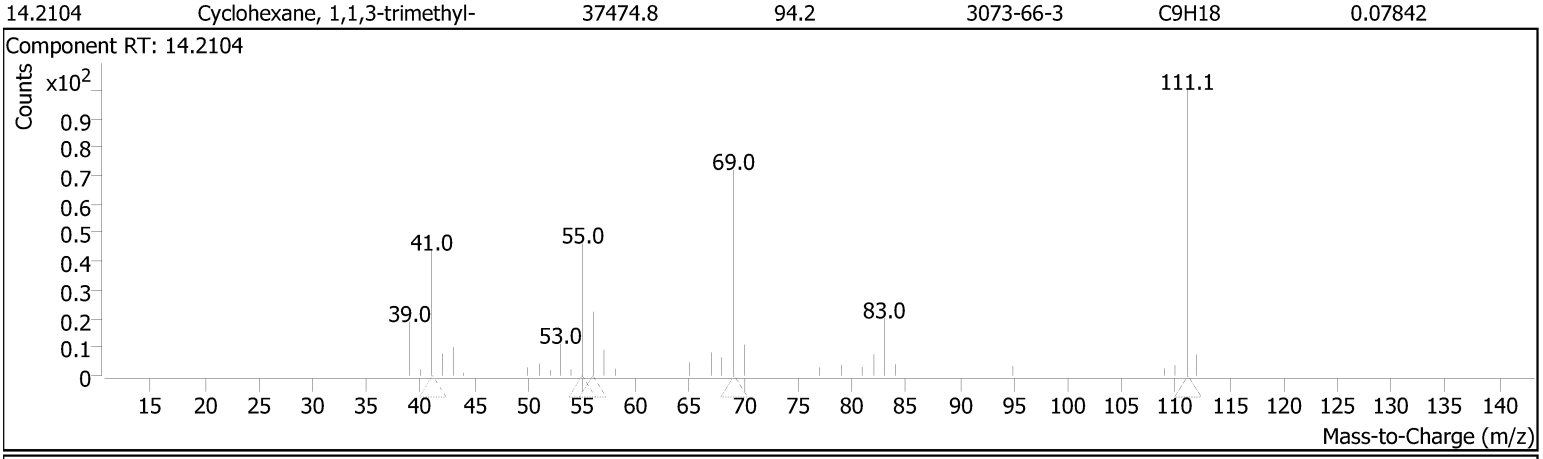



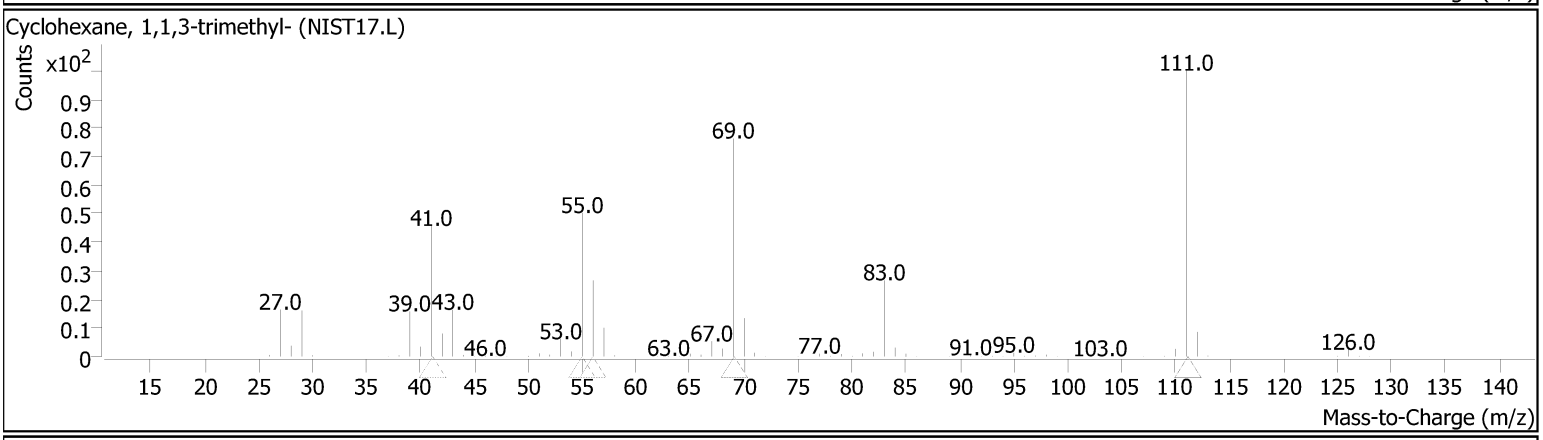



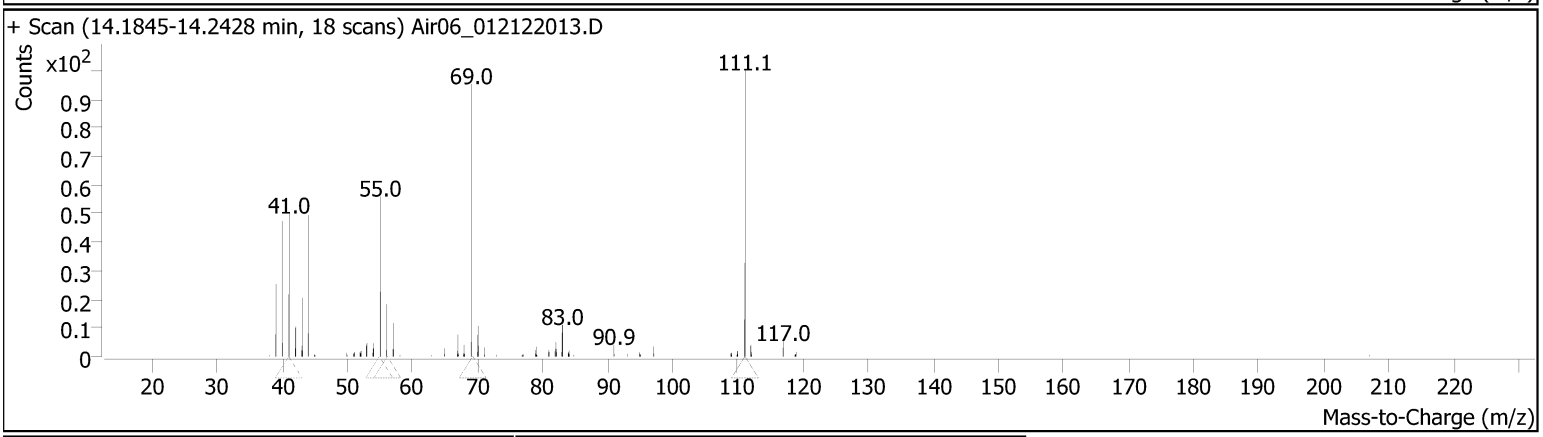



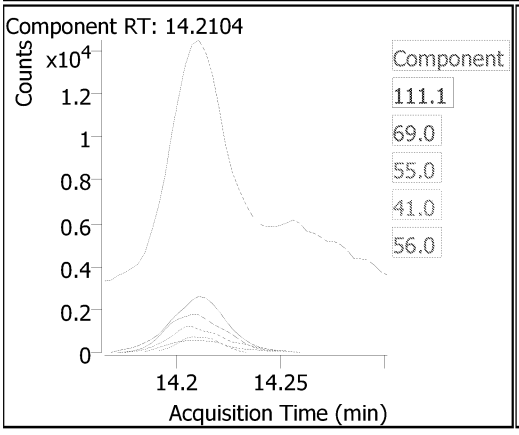



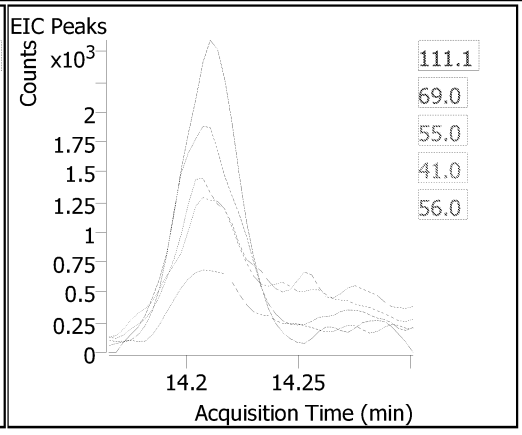
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.2104 | Cyclohexane, 1,1,3-trimethyl- | 37474.8 | 94.2 | 3073-66-3 | C9H18 | 0.07842 |

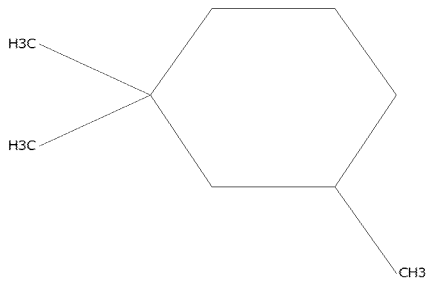


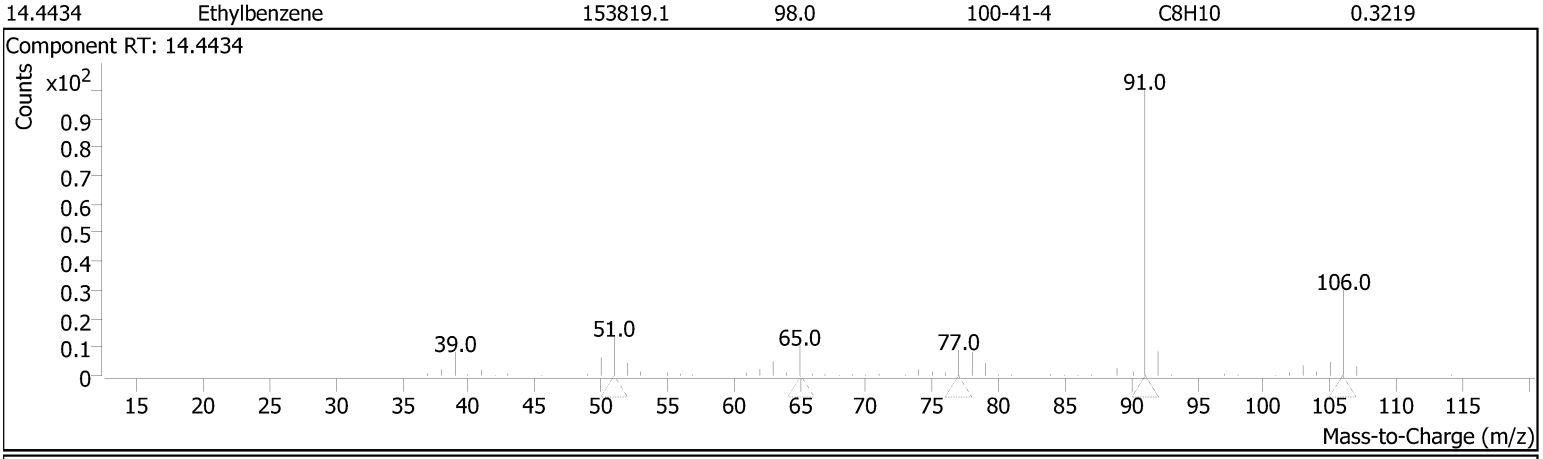



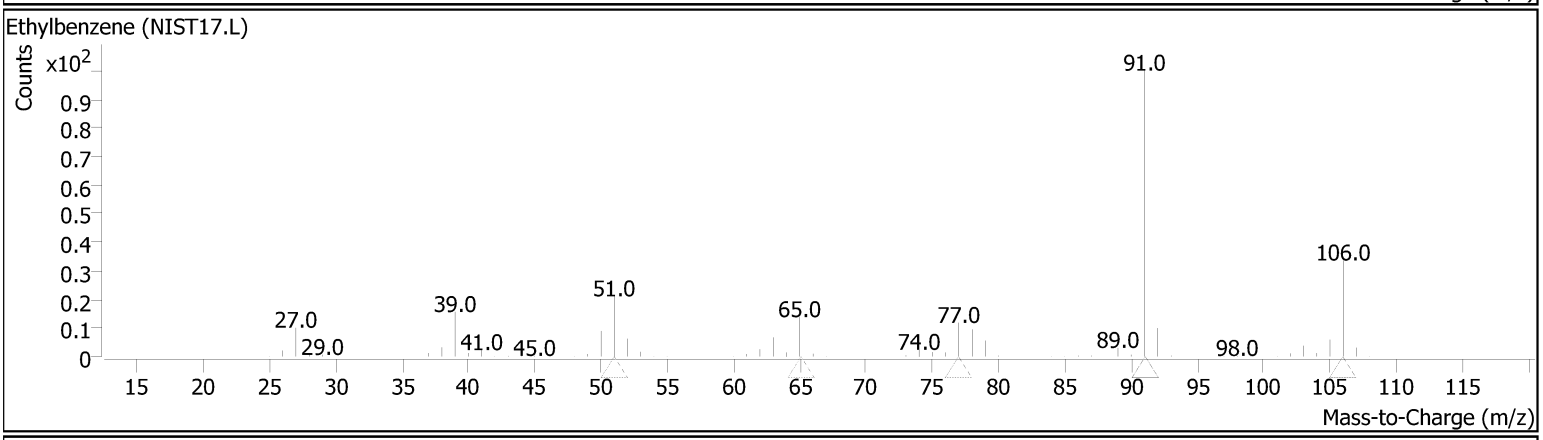



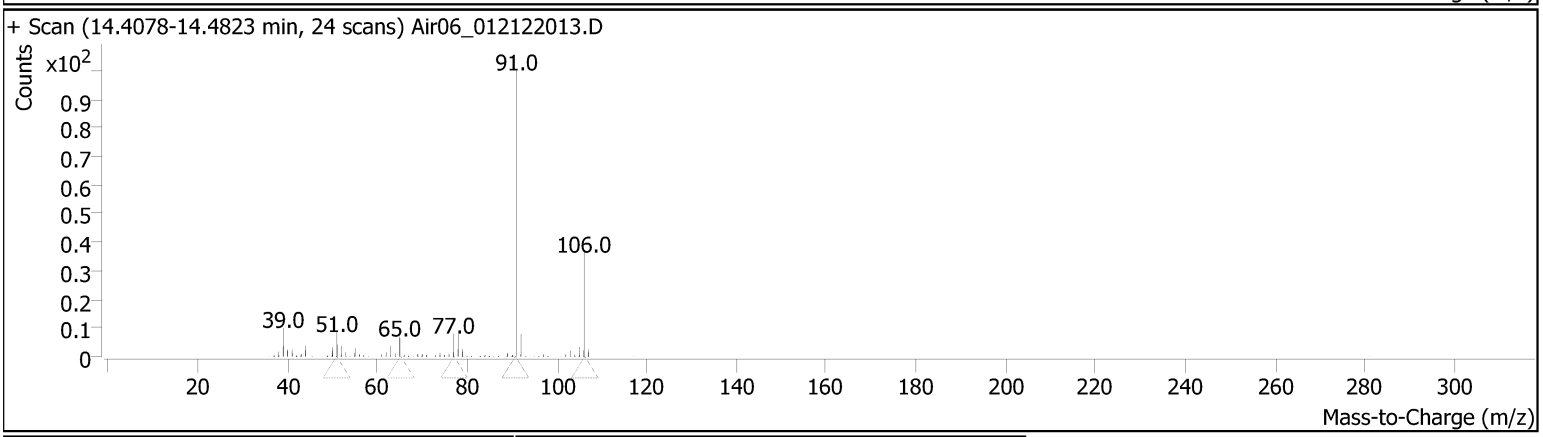



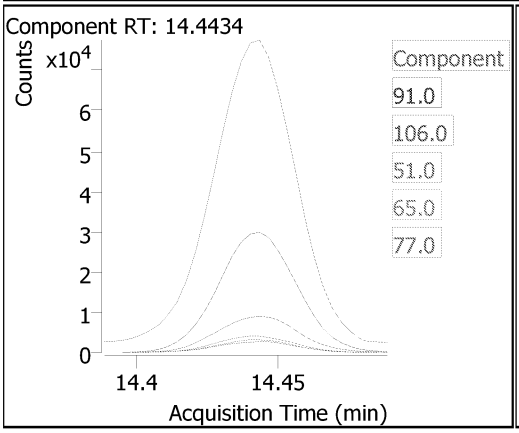



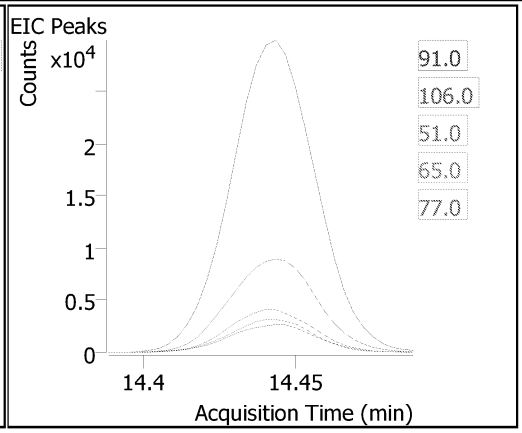
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.4434 | Ethylbenzene | 153819.1 | 98.0 | 100-41-4 | C8H10 | 0.3219 |

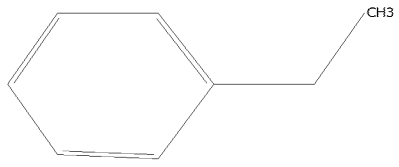


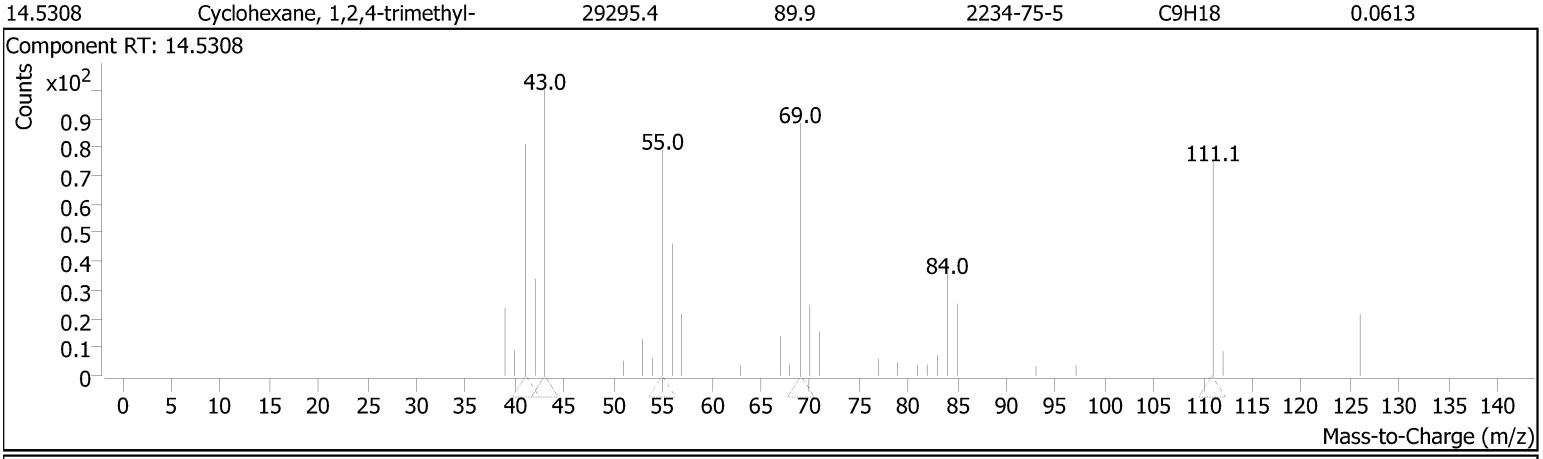



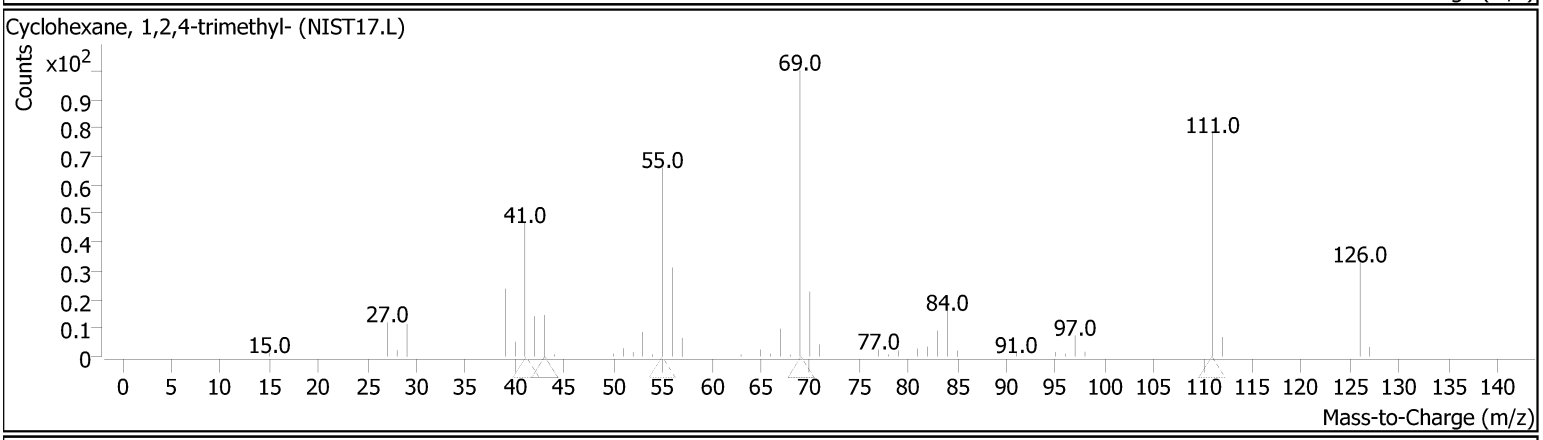



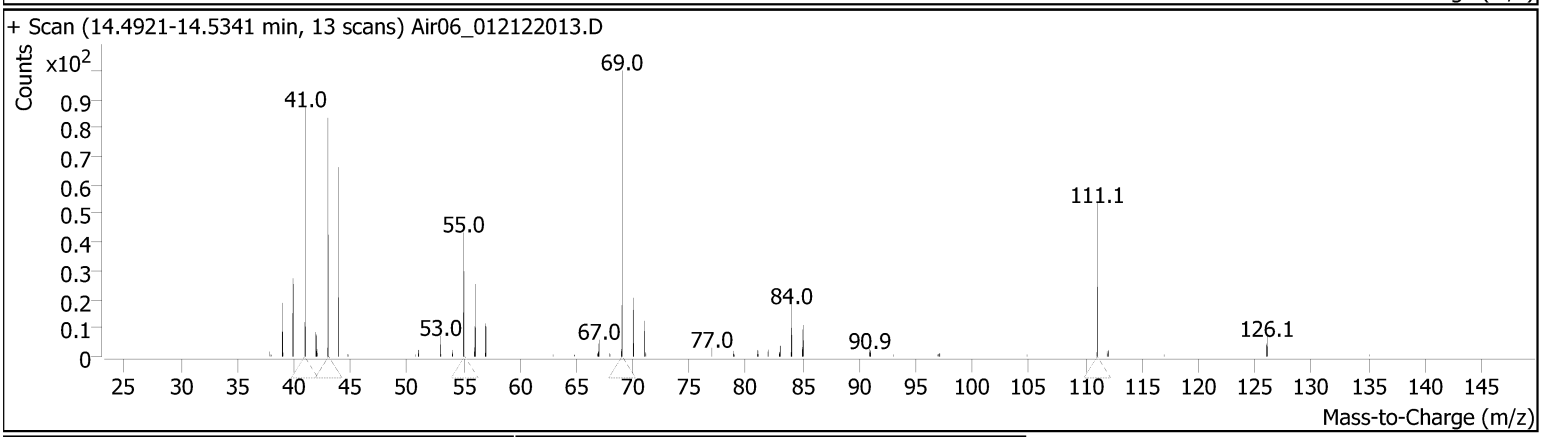



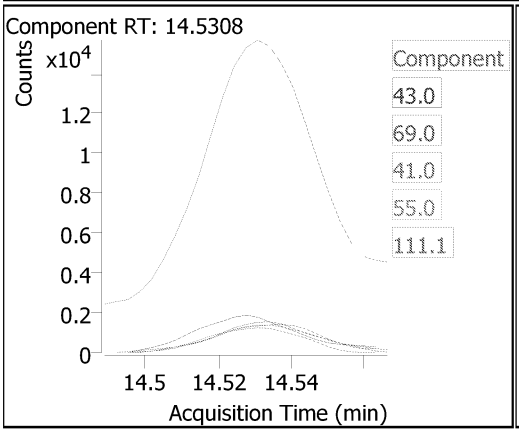



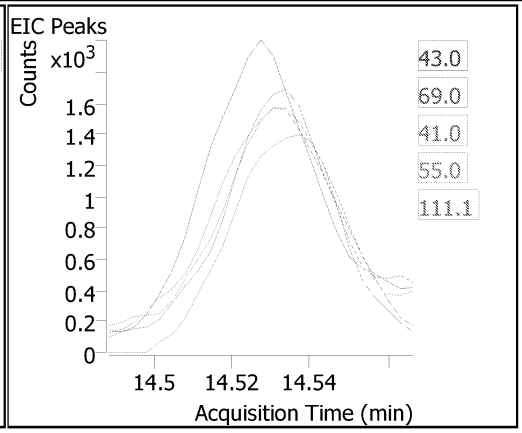
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.5308 | Cyclohexane, 1,2,4-trimethyl- | 29295.4 | 89.9 | 2234-75-5 | C9H18 | 0.0613 |

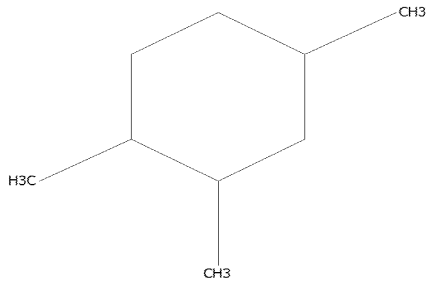


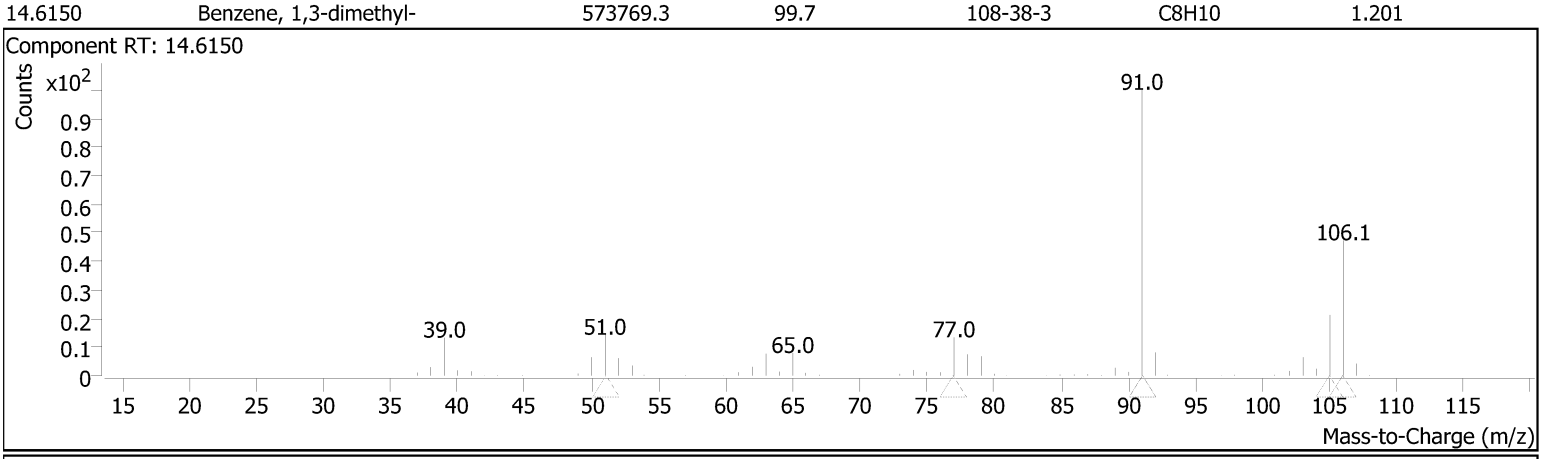



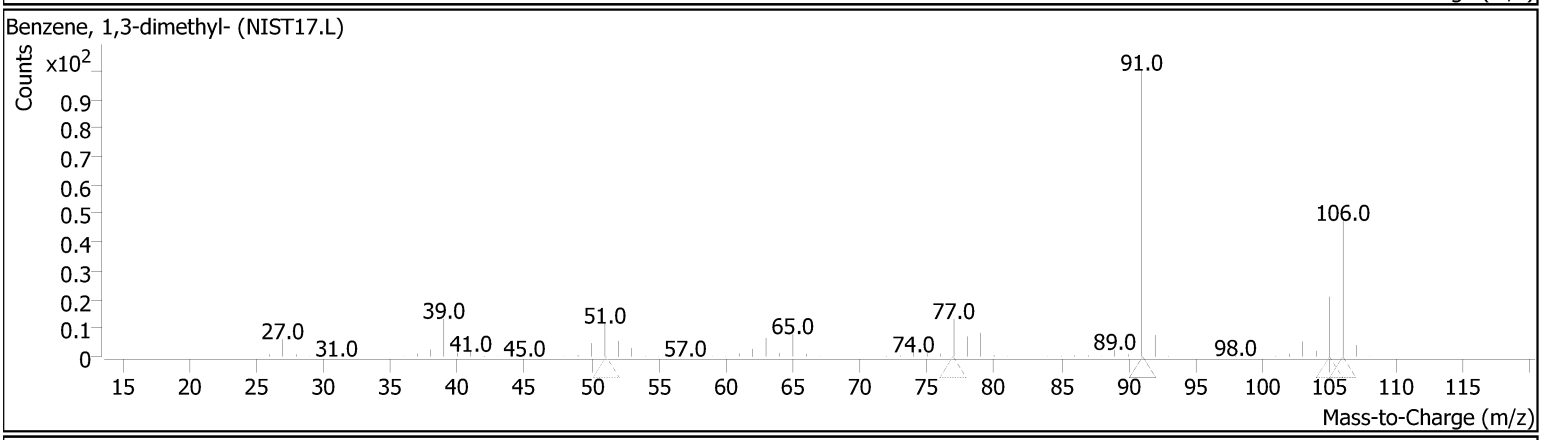



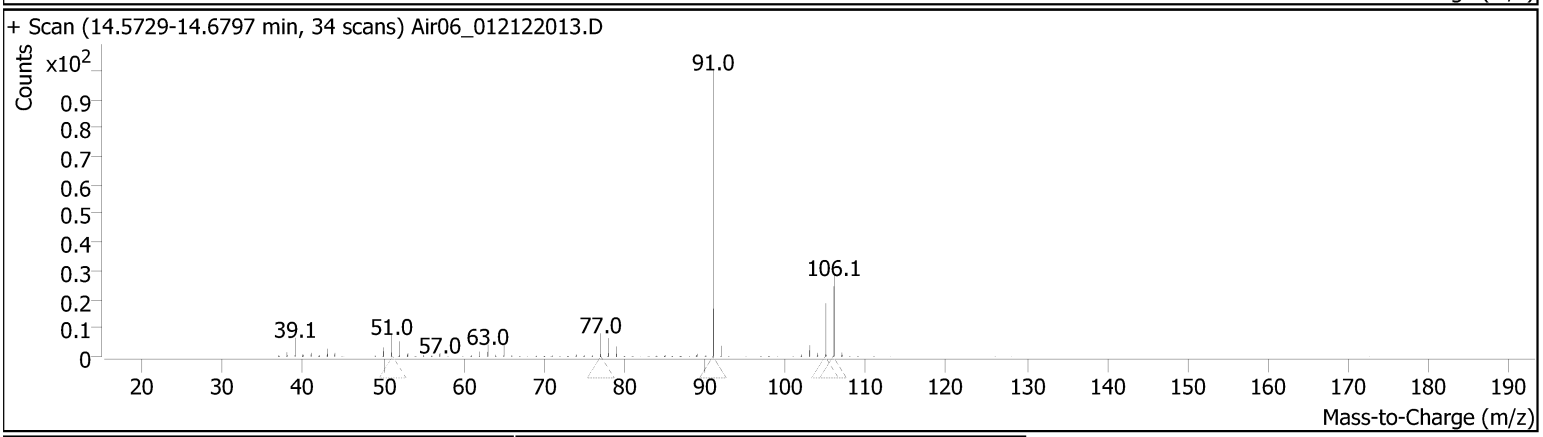



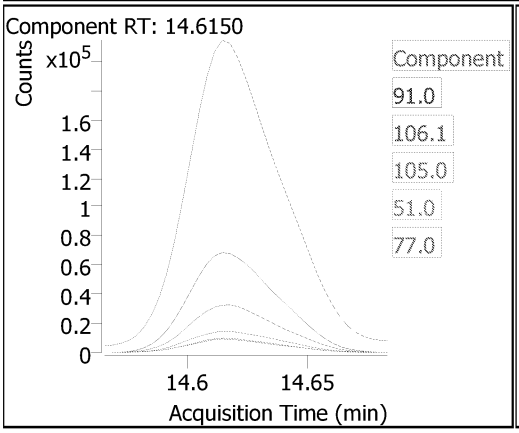



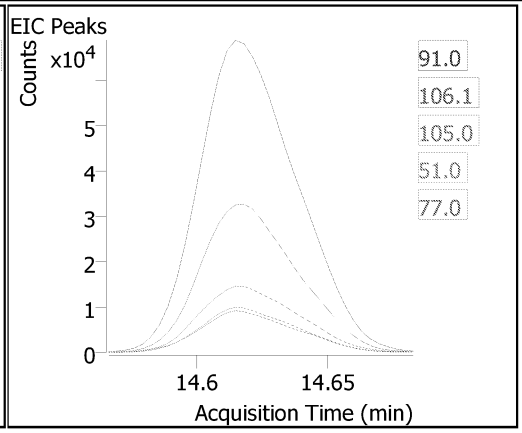
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.6150 | Benzene, 1,3-dimethyl- | 573769.3 | 99.7 | 108-38-3 | C8H10 | 1.201 |

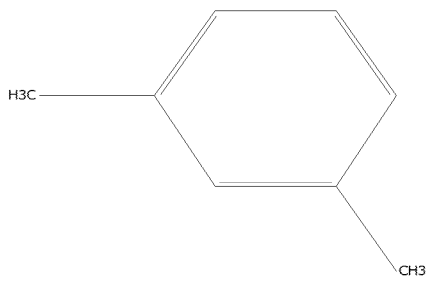


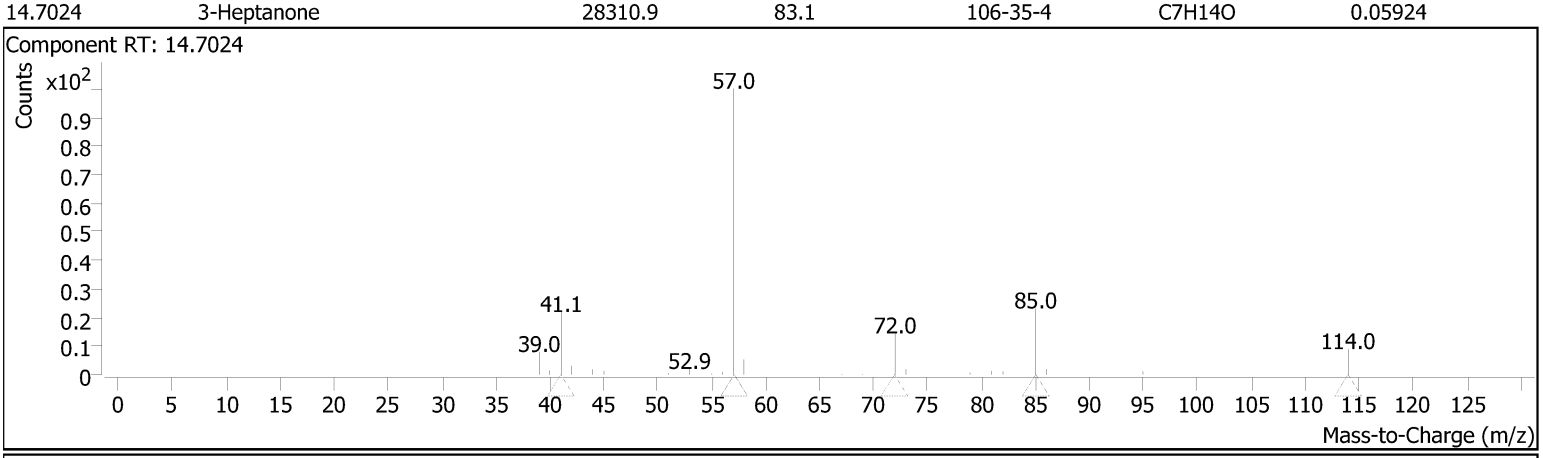



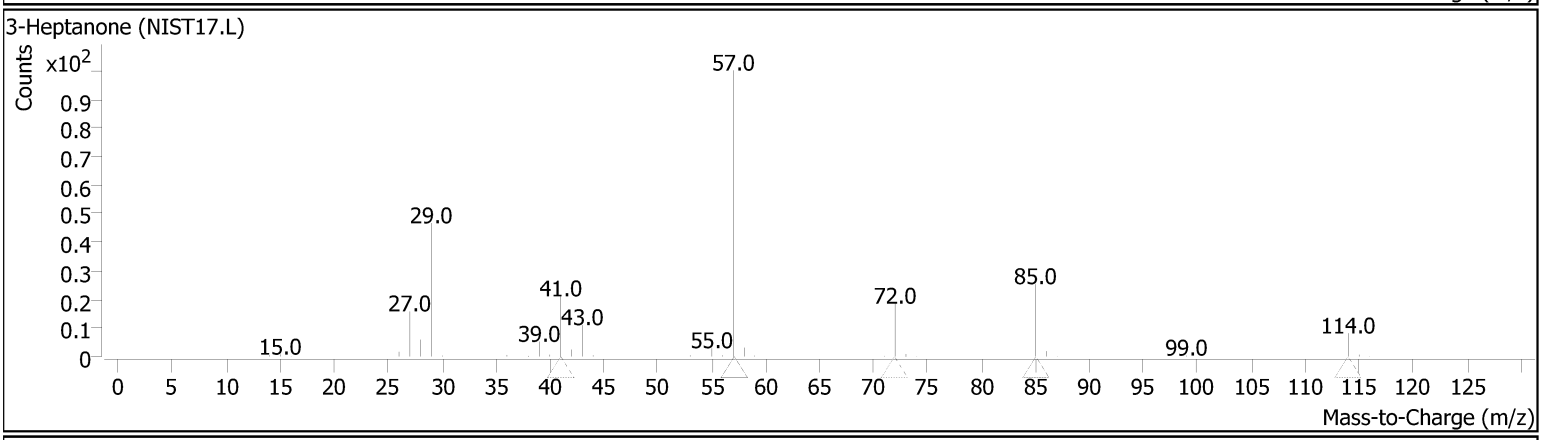



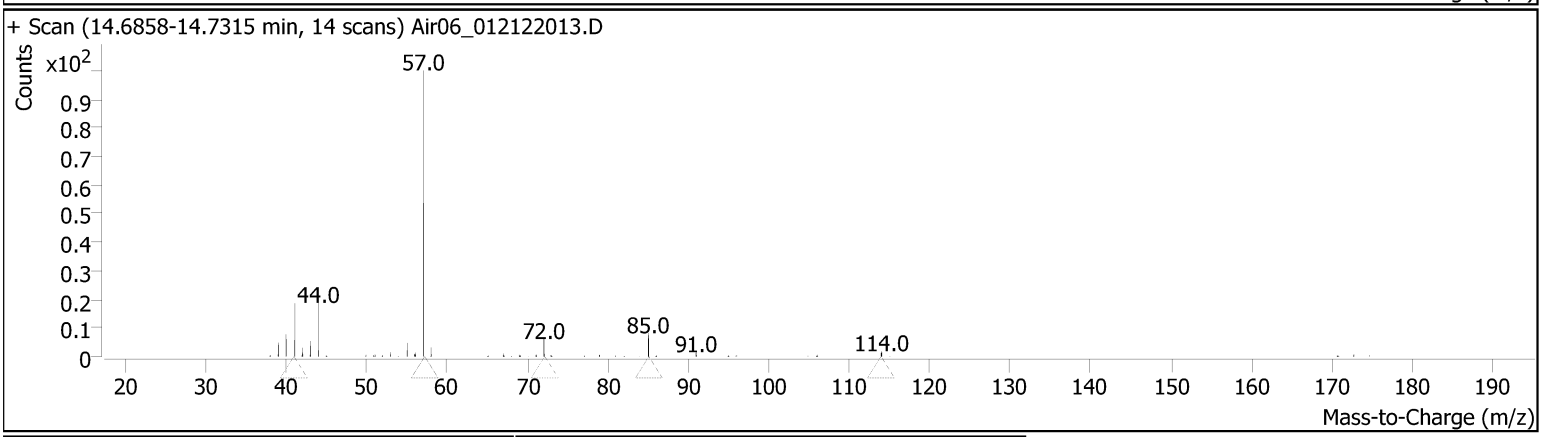



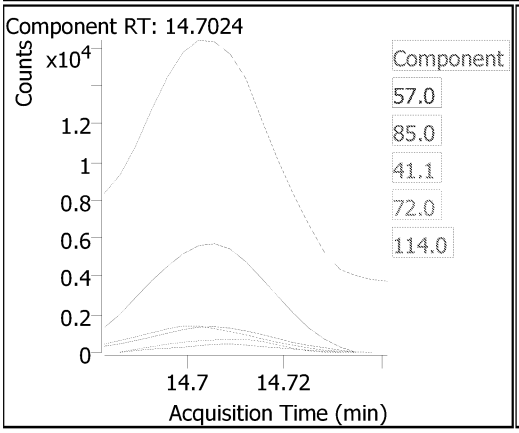



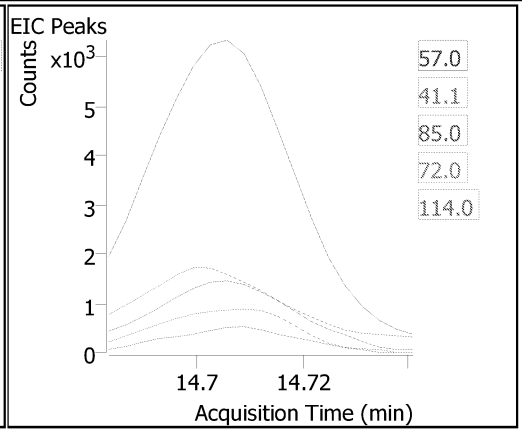
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.7024 | 3-Heptanone | 28310.9 | 83.1 | 106-35-4 | C7H14O | 0.05924 |

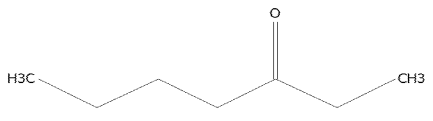


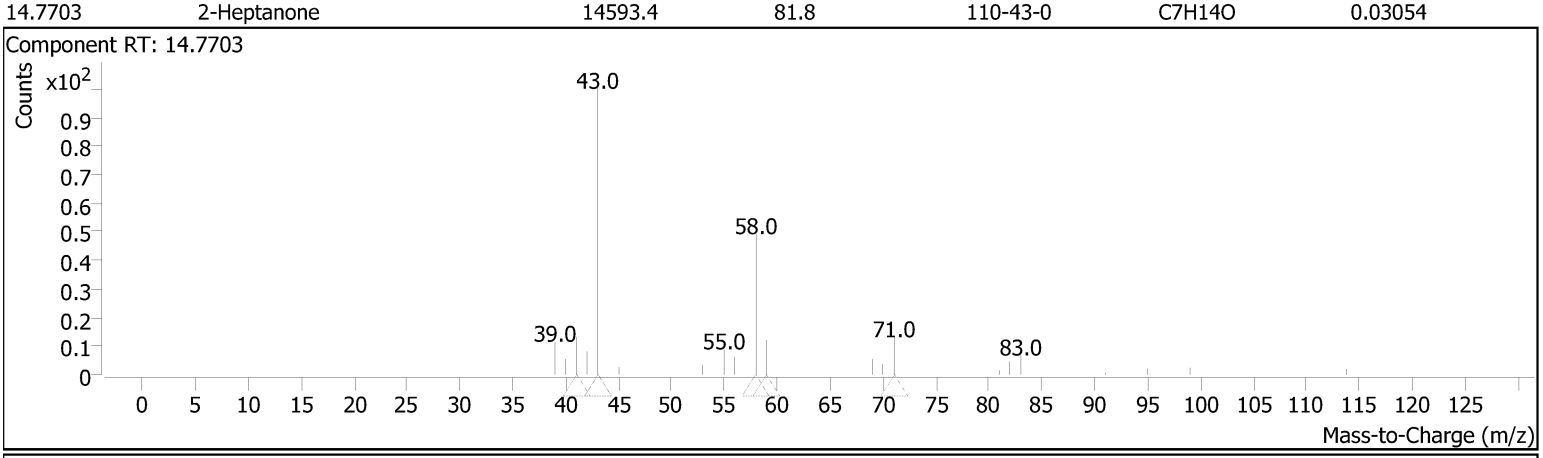



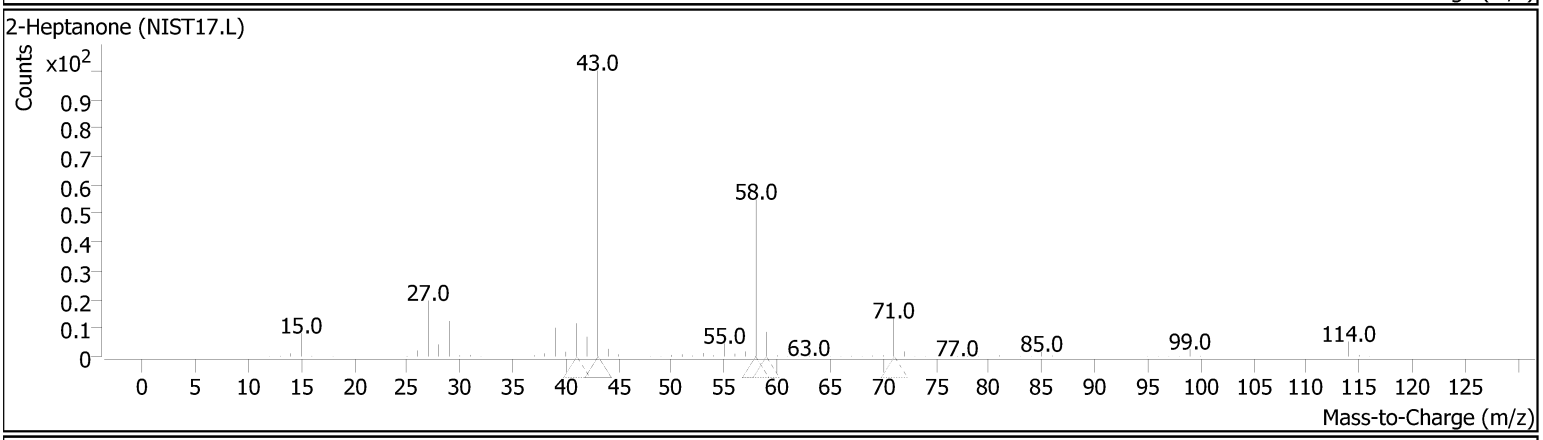



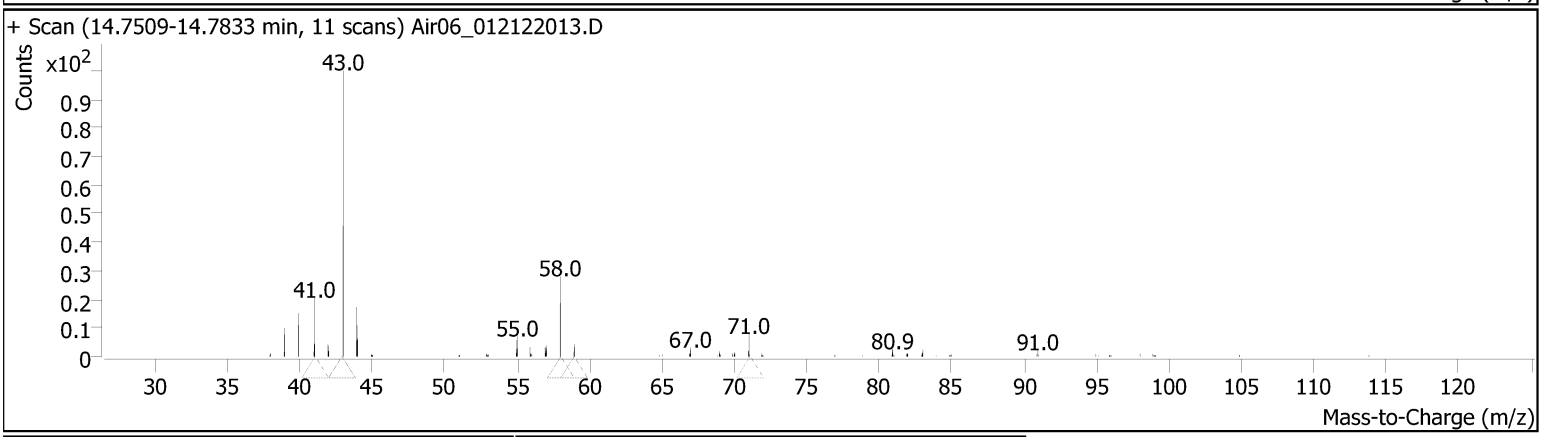



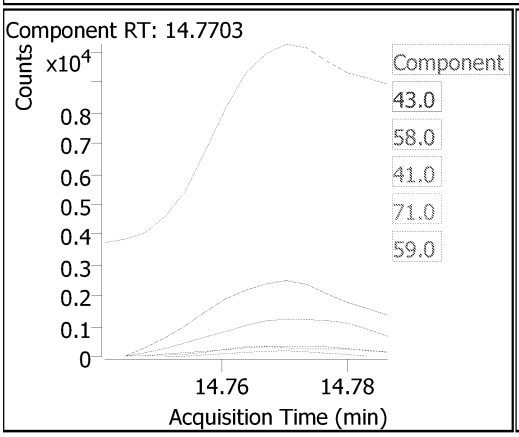



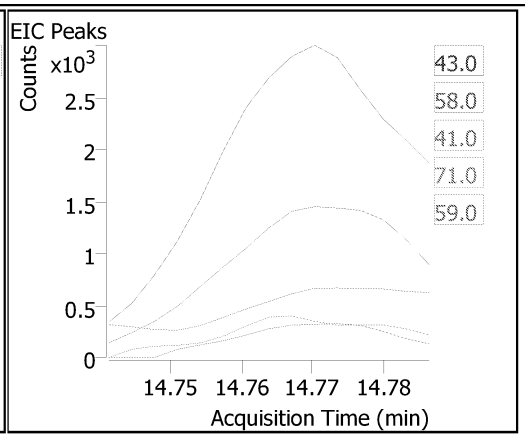
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.7703 | 2-Heptanone | 14593.4 | 81.8 | 110-43-0 | C7H14O | 0.03054 |

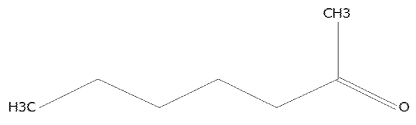


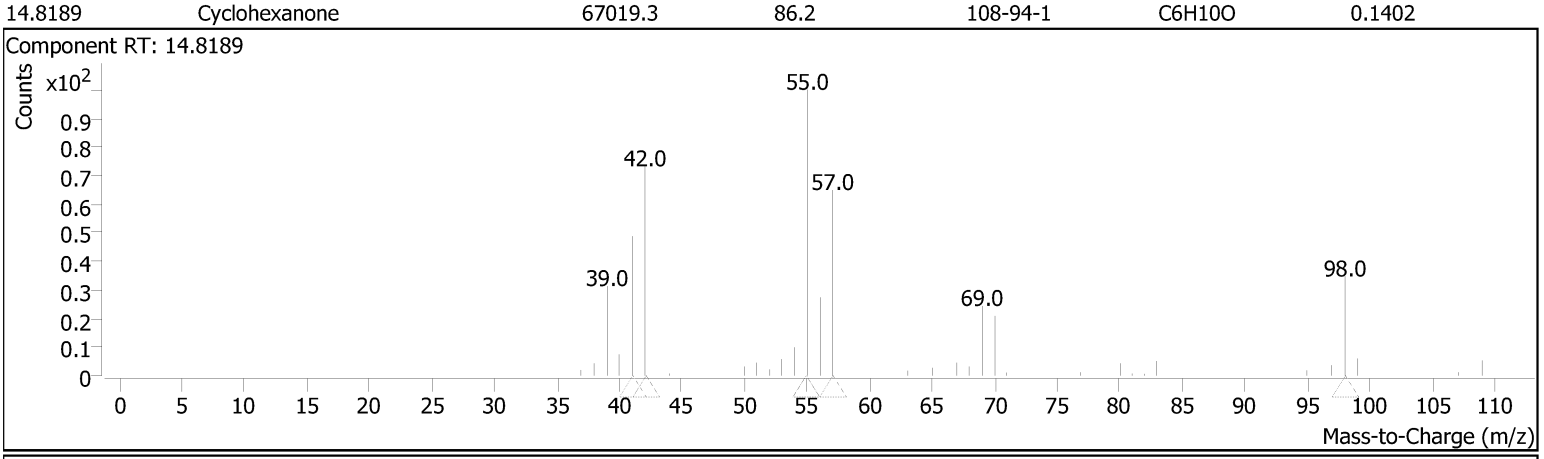



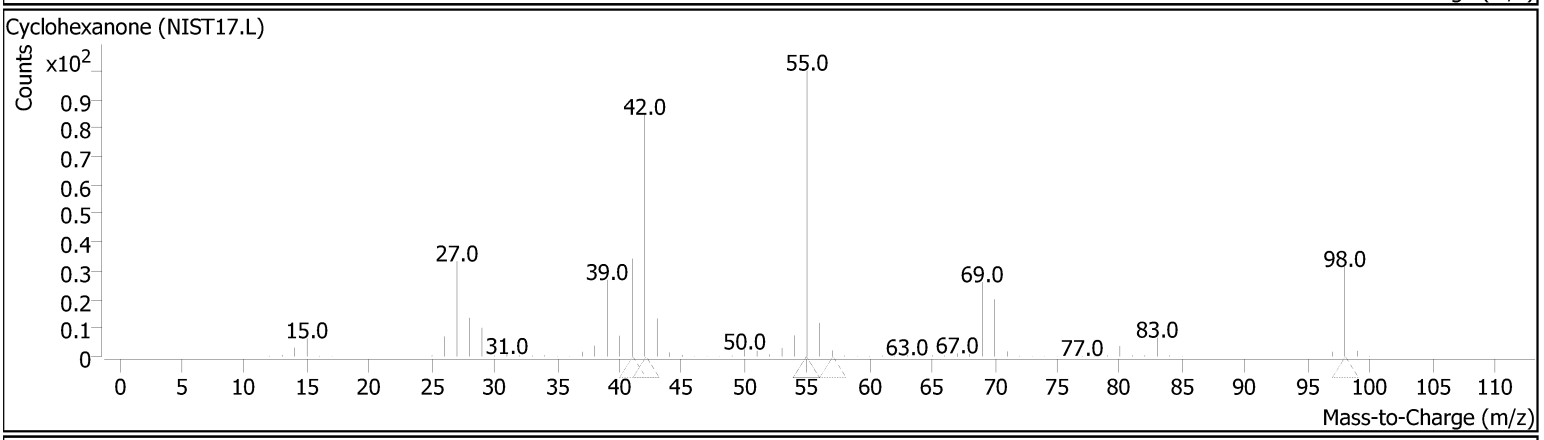



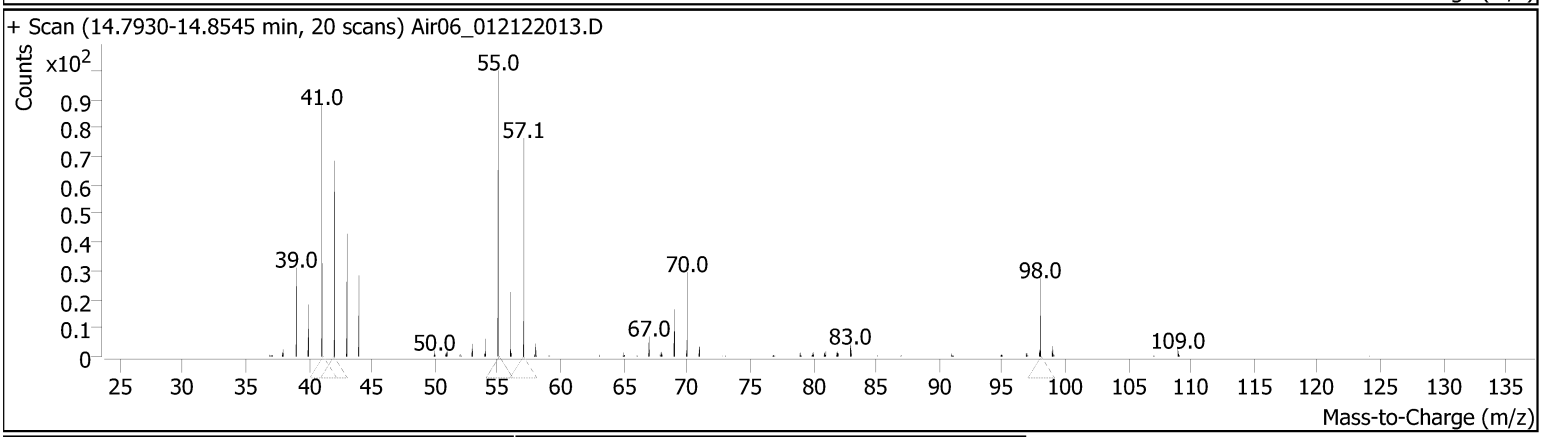



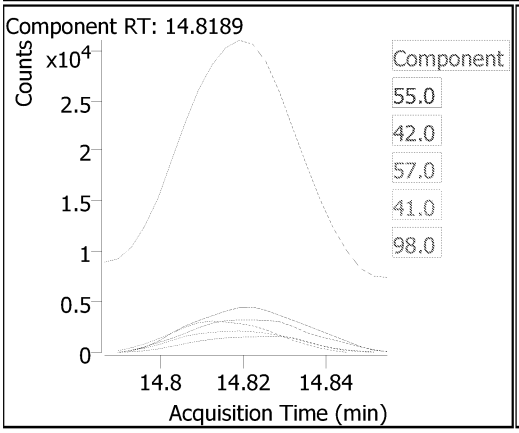



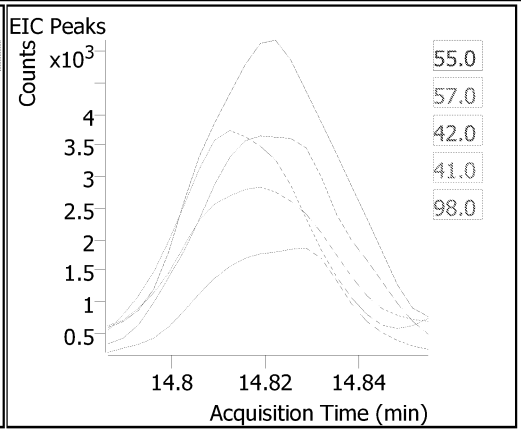
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.8189 | Cyclohexanone | 67019.3 | 86.2 | 108-94-1 | C6H10O | 0.1402 |

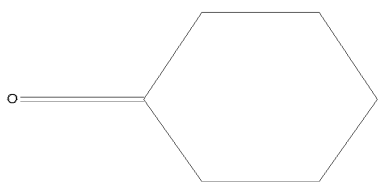


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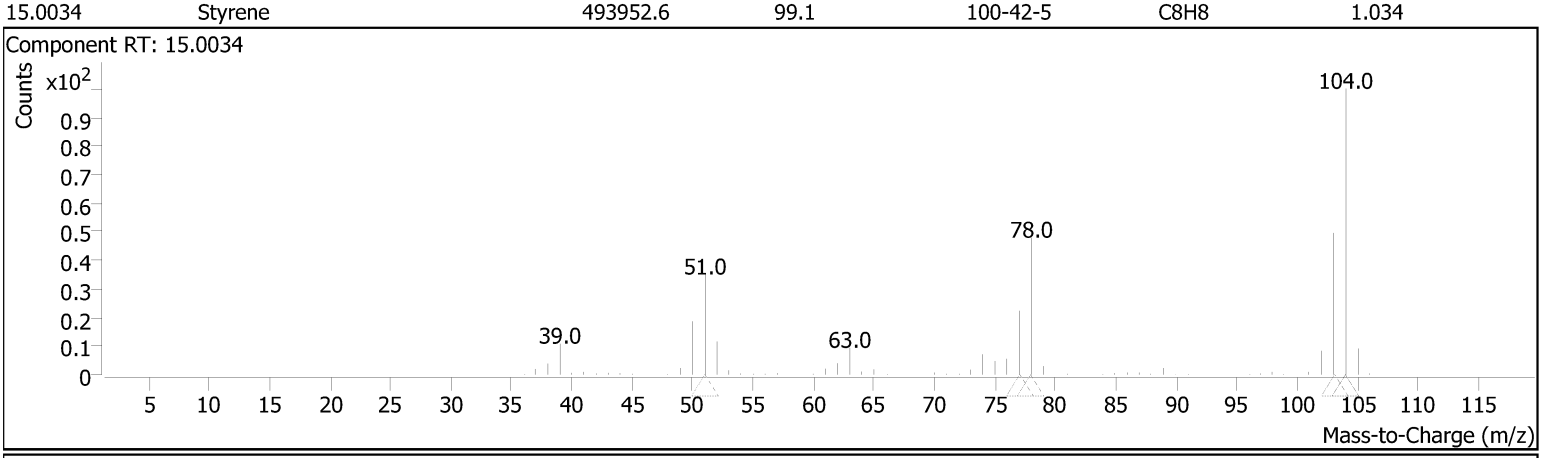
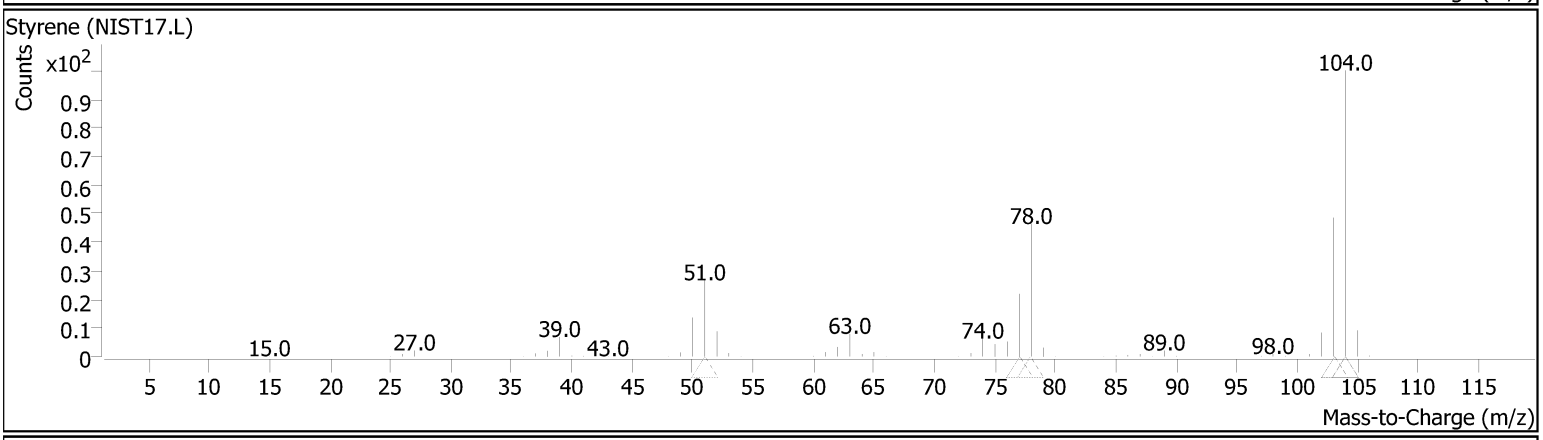
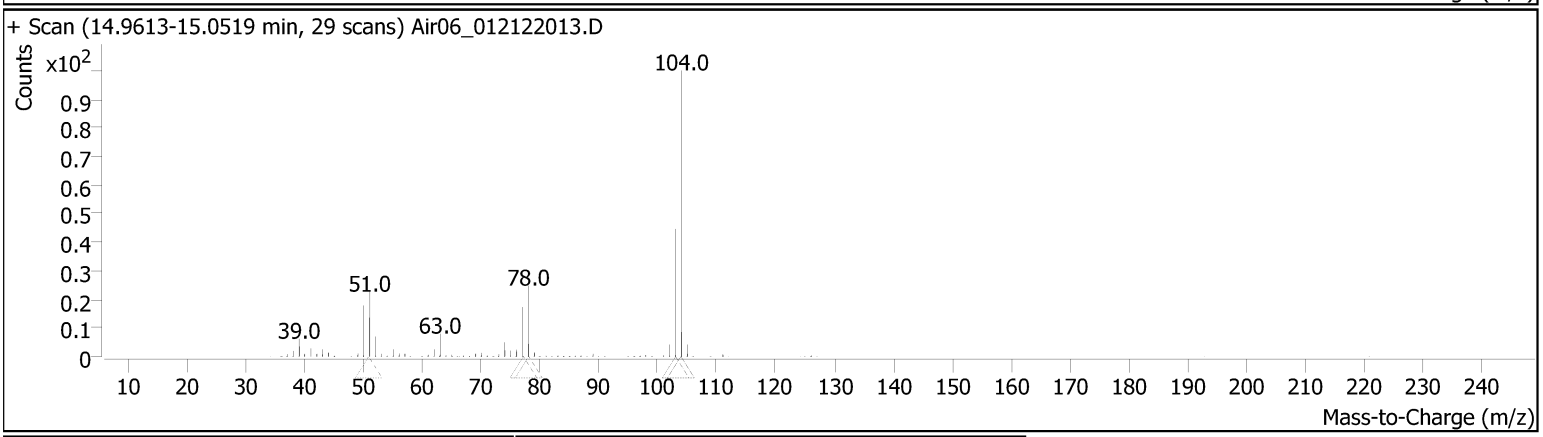
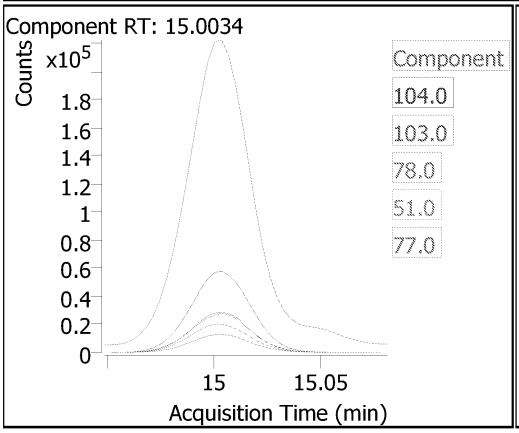
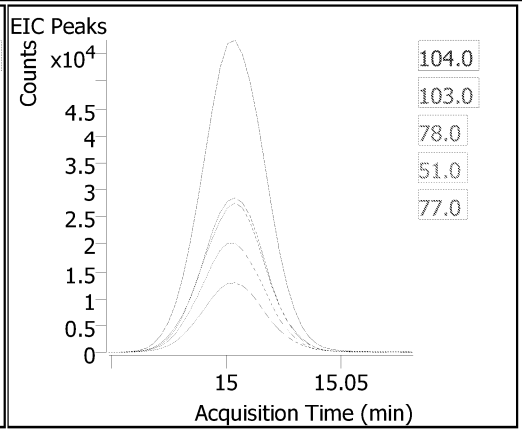
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.0034 | Styrene | 493952.6 | 99.1 | 100-42-5 | C8H8 | 1.034 |

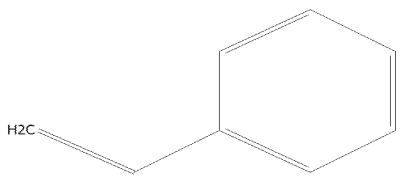


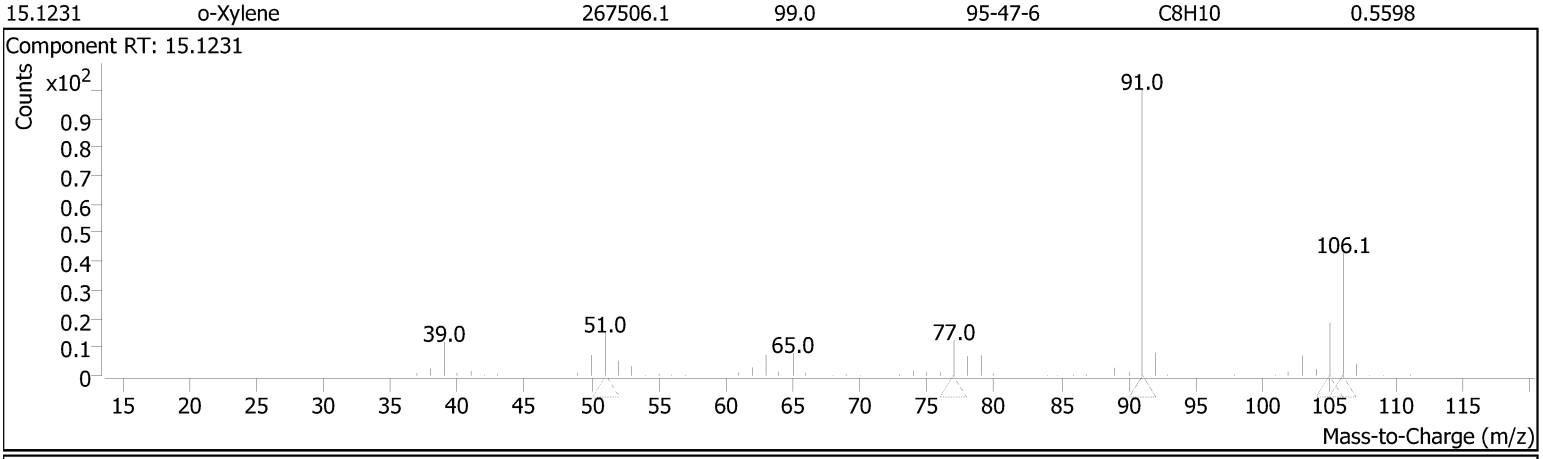



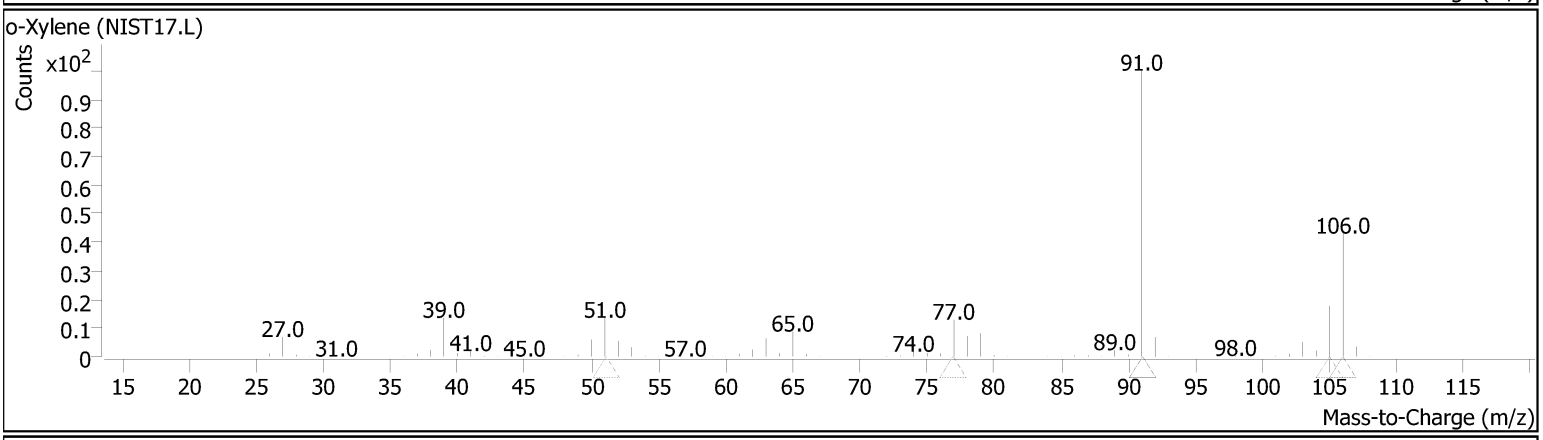



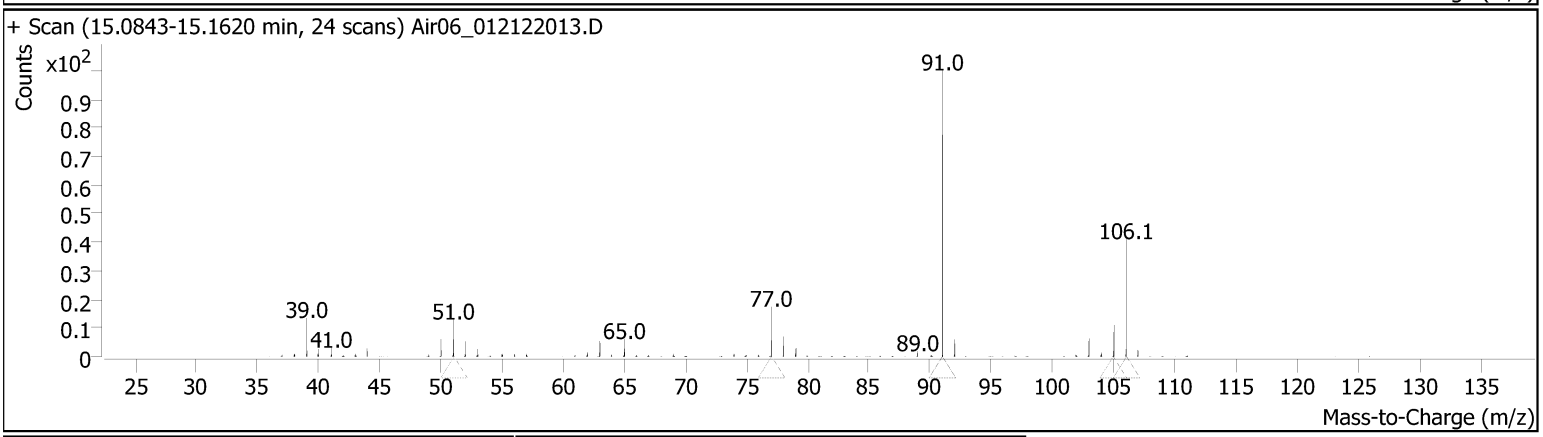



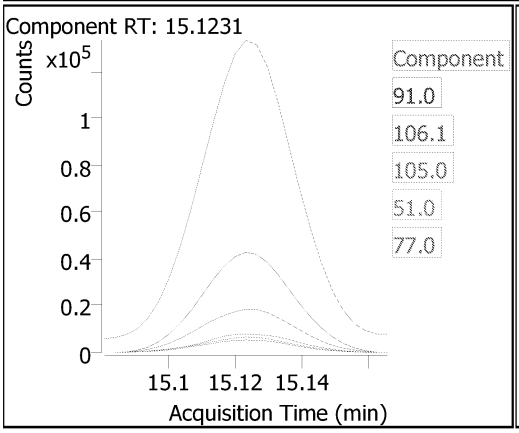



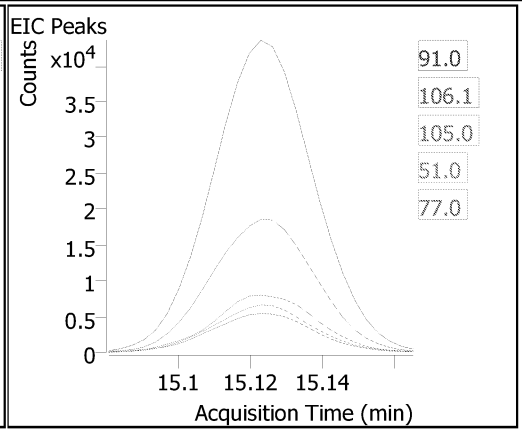
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.1231 | o-Xylene | 267506.1 | 99.0 | 95-47-6 | C8H10 | 0.5598 |

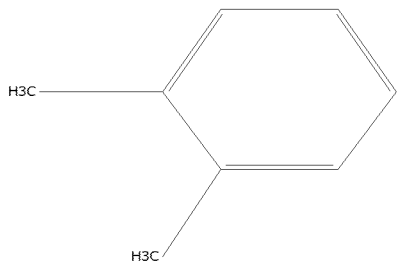


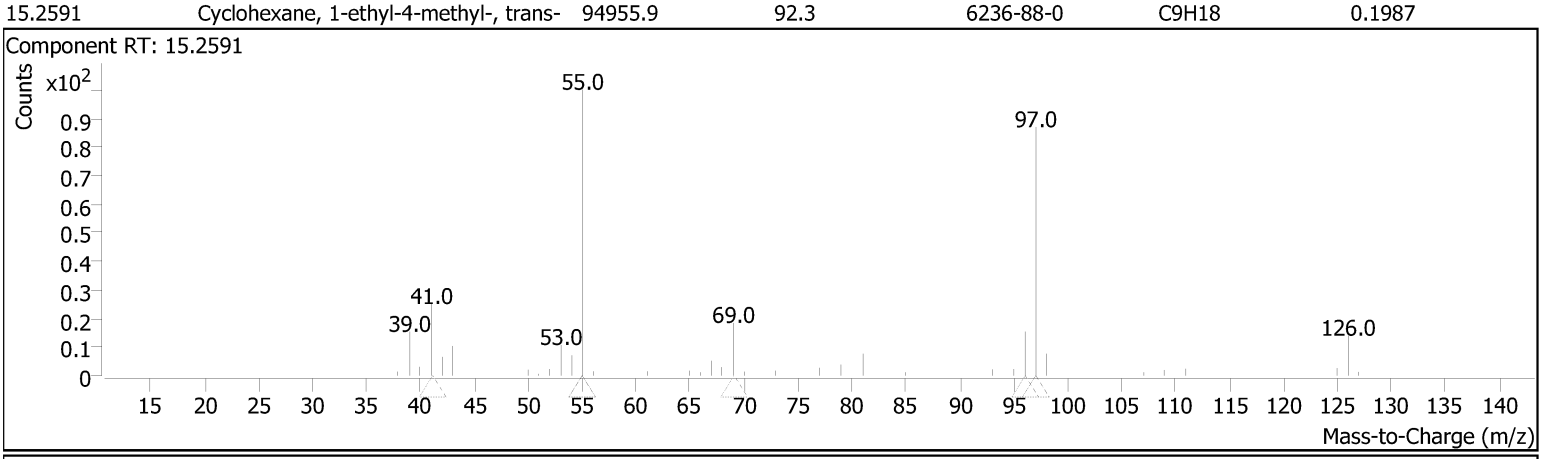



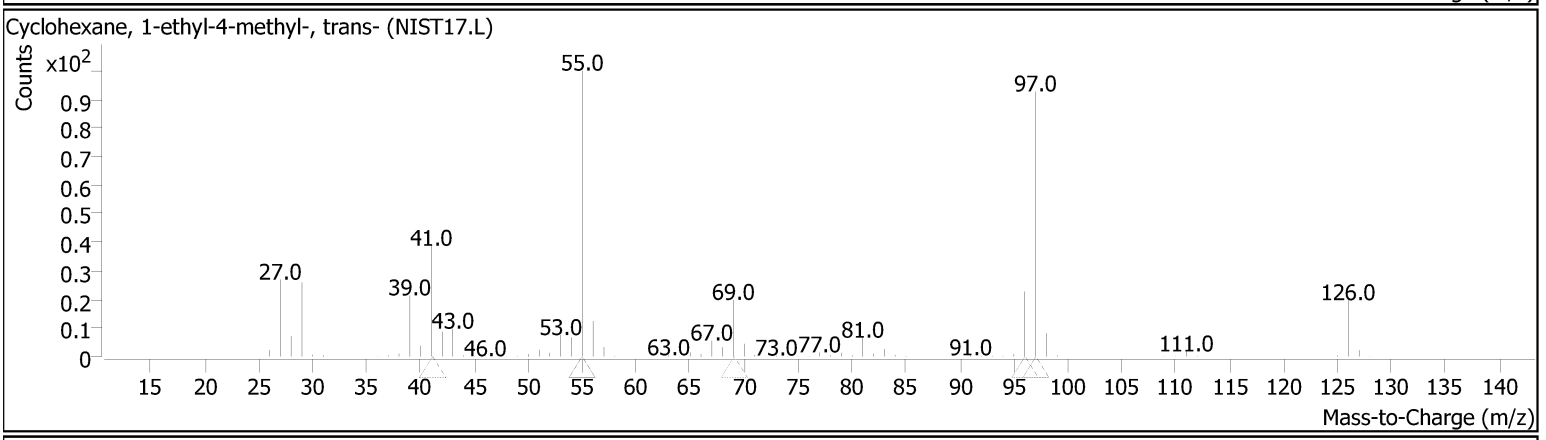



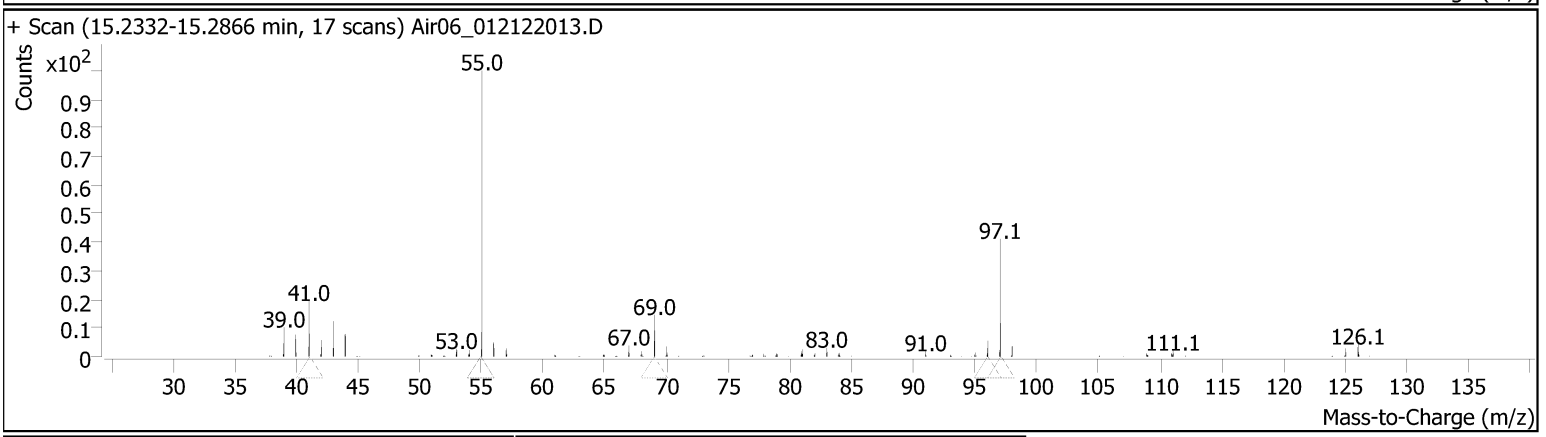



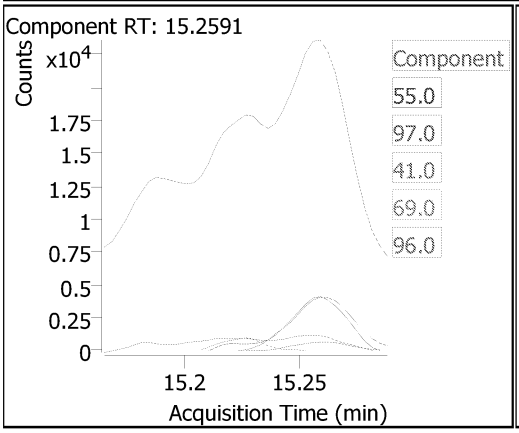



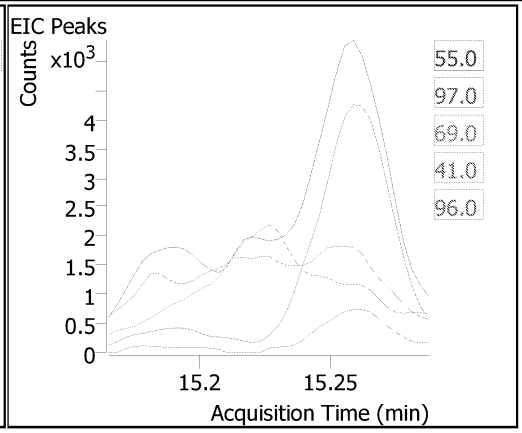
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.2591 | Cyclohexane, 1-ethyl-4-methyl-, trans- | 94955.9 | 92.3 | 6236-88-0 | C9H18 | 0.1987 |

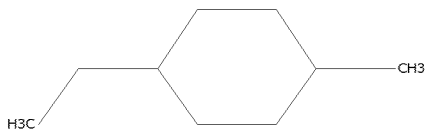


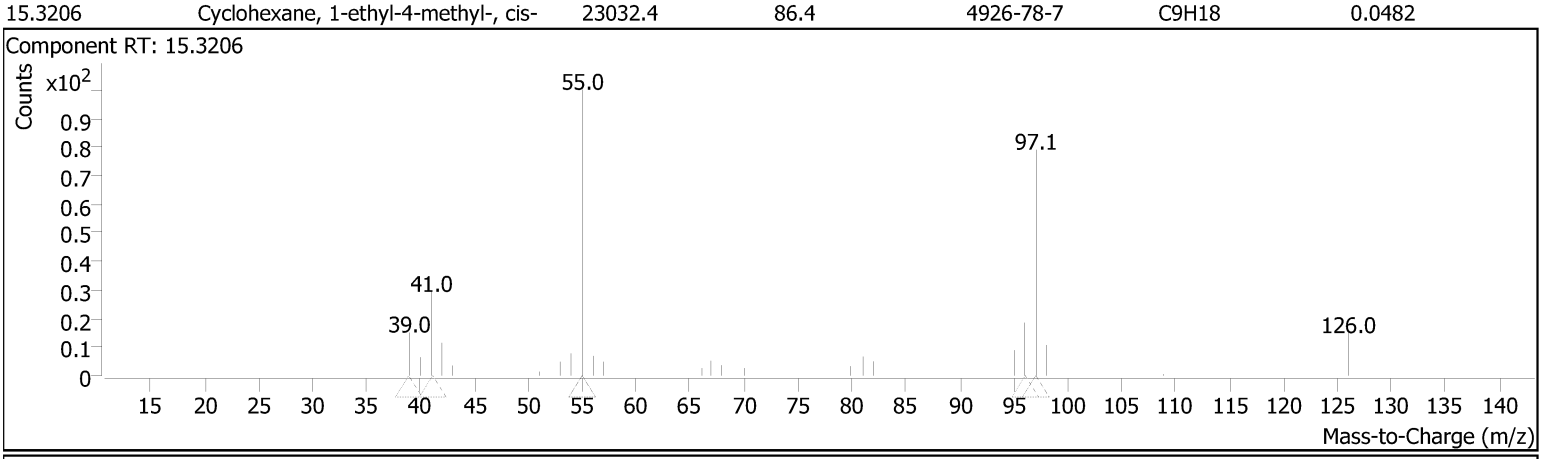



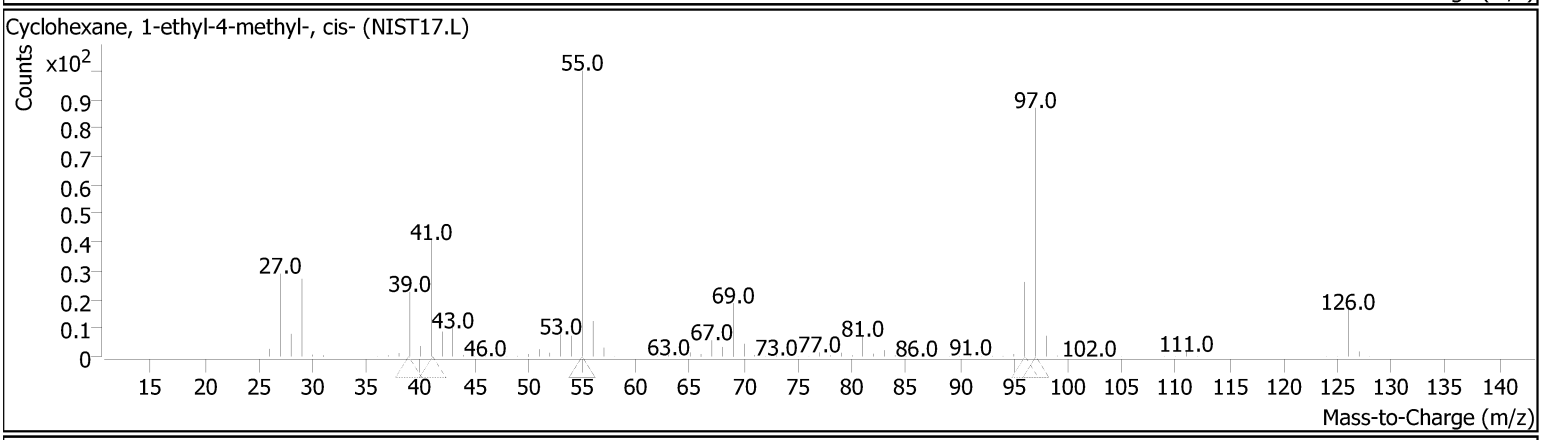



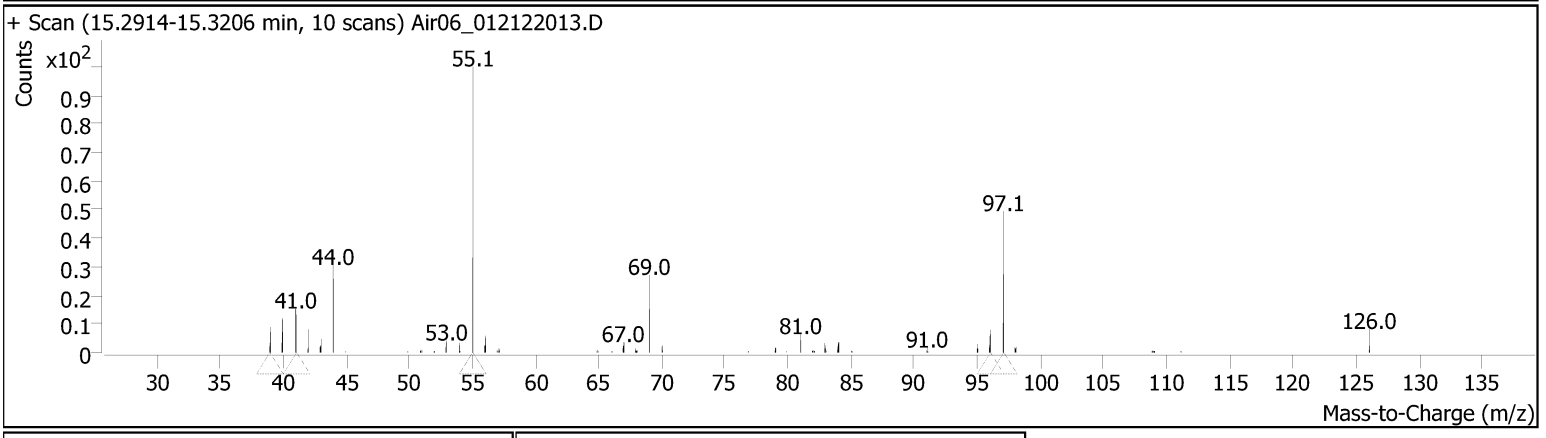



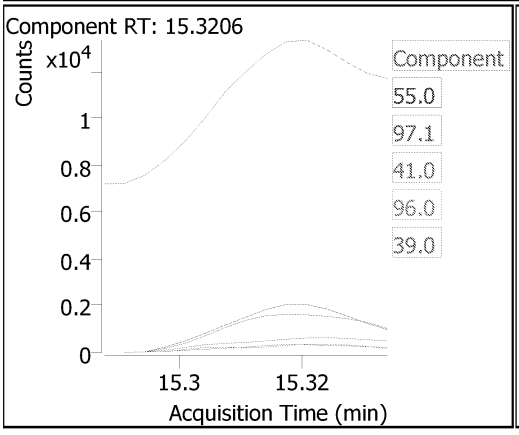



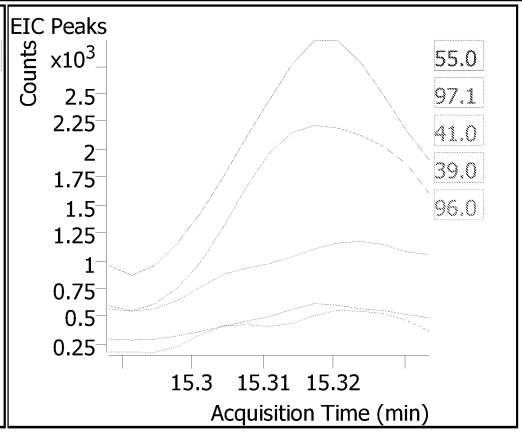
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3206 | Cyclohexane, 1-ethyl-4-methyl-, cis- | 23032.4 | 86.4 | 4926-78-7 | C9H18 | 0.0482 |

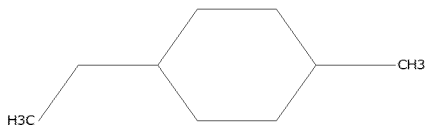


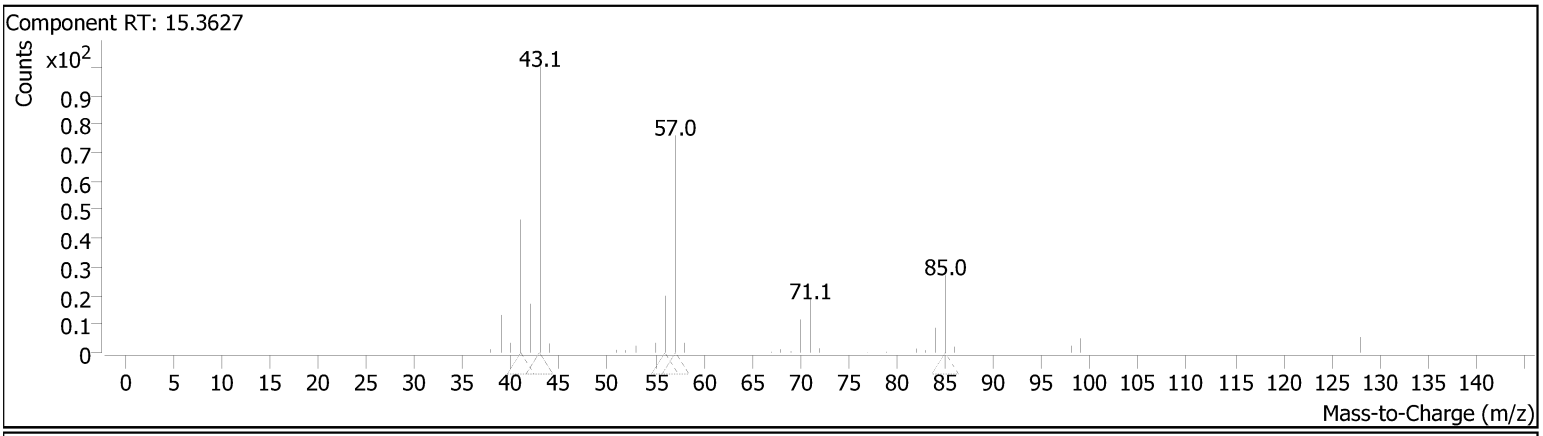



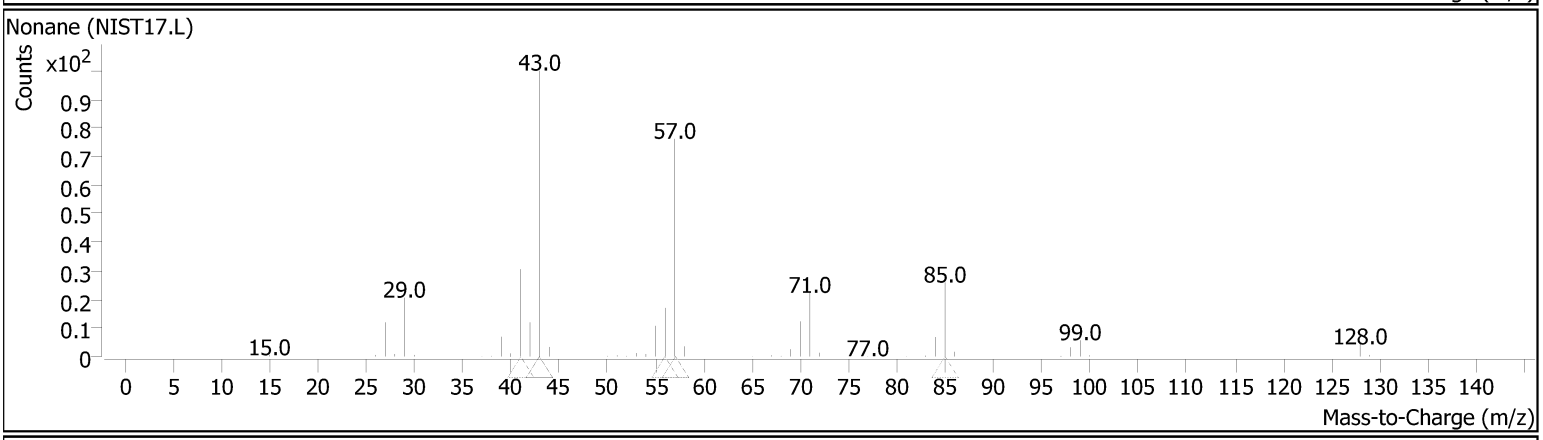



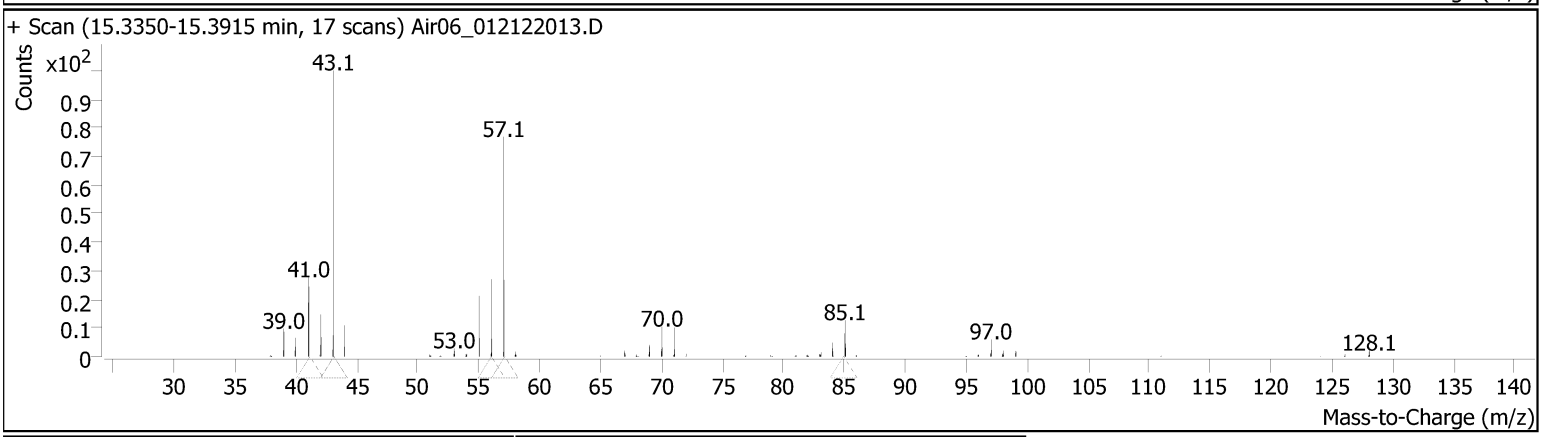



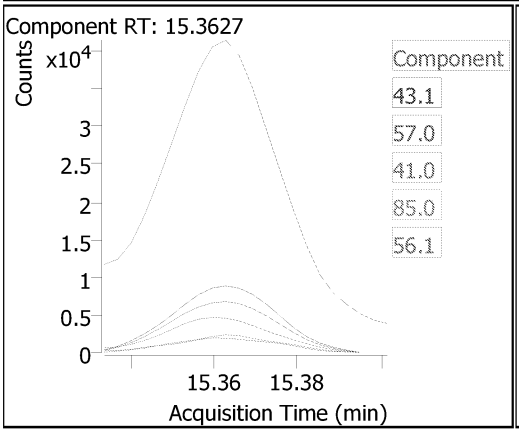



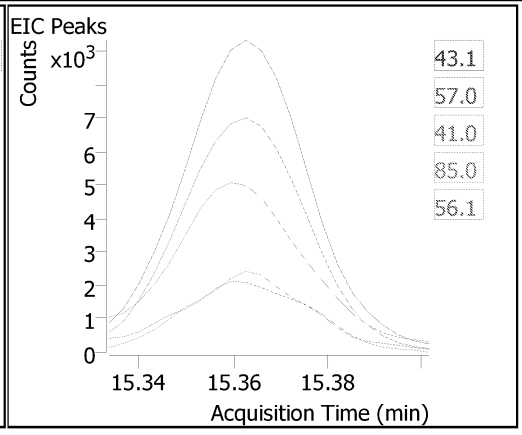
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3627 | Nonane | 78191.2 | 96.6 | 111-84-2 | C9H20 | 0.1636 |

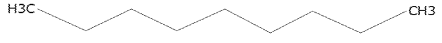


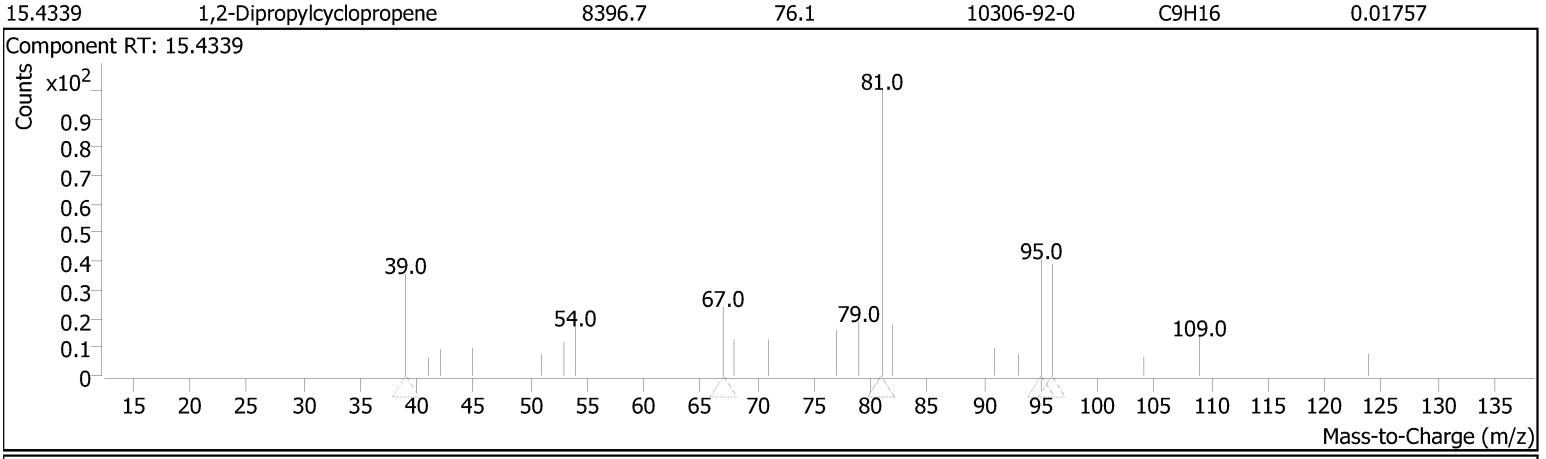



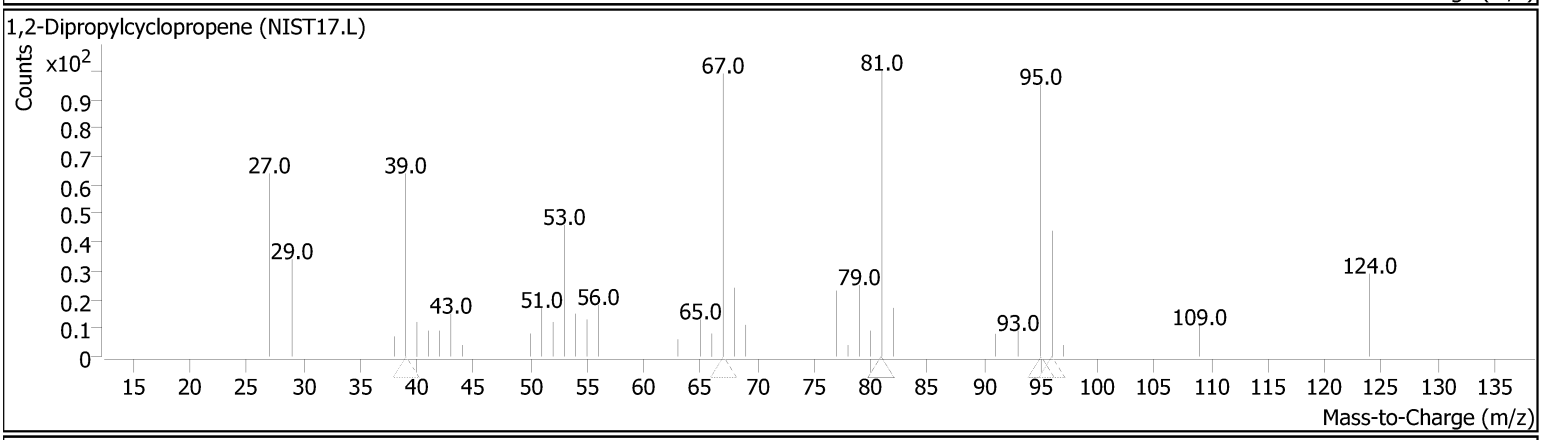



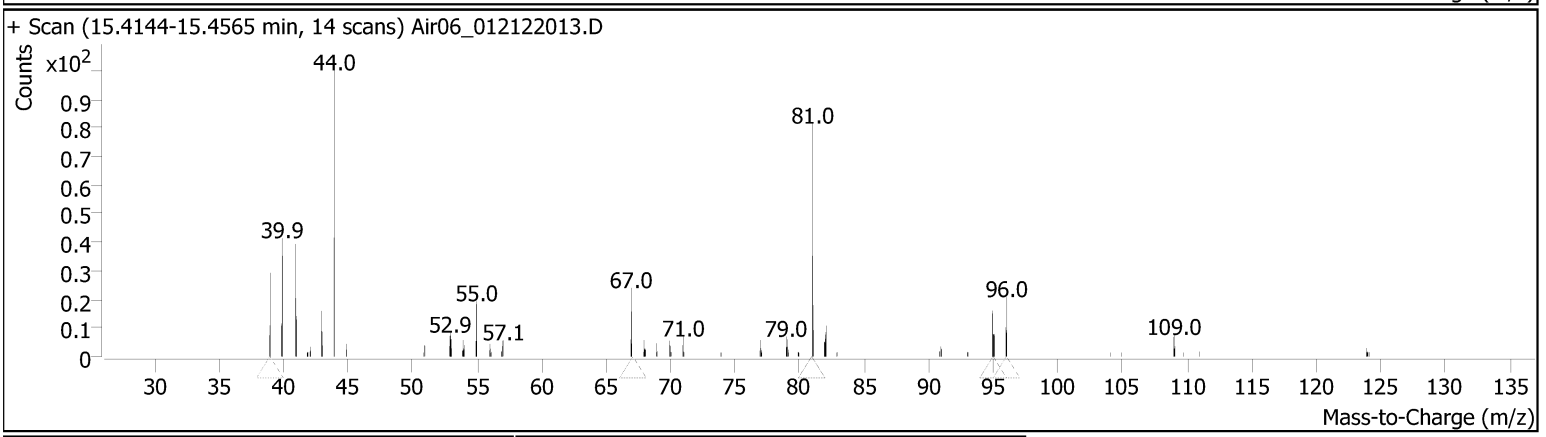



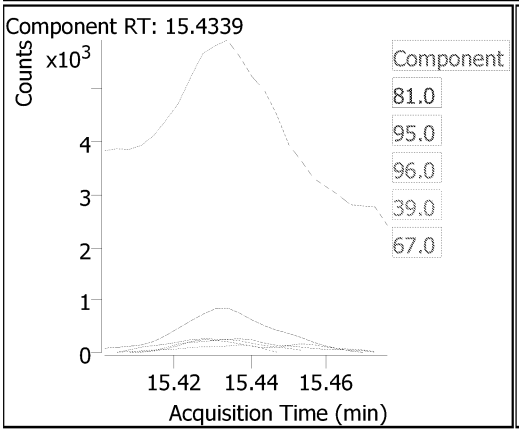



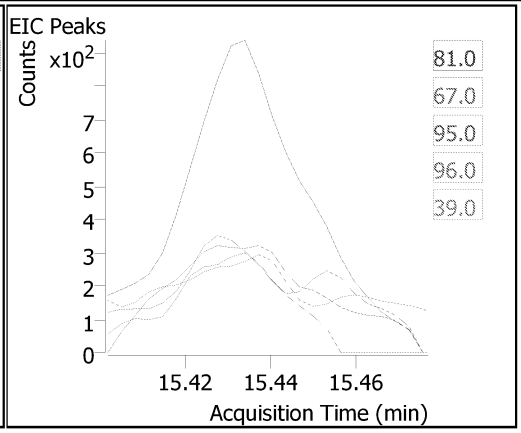
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.4339 | 1,2-Dipropylcyclopropene | 8396.7 | 76.1 | 10306-92-0 | C9H16 | 0.01757 |



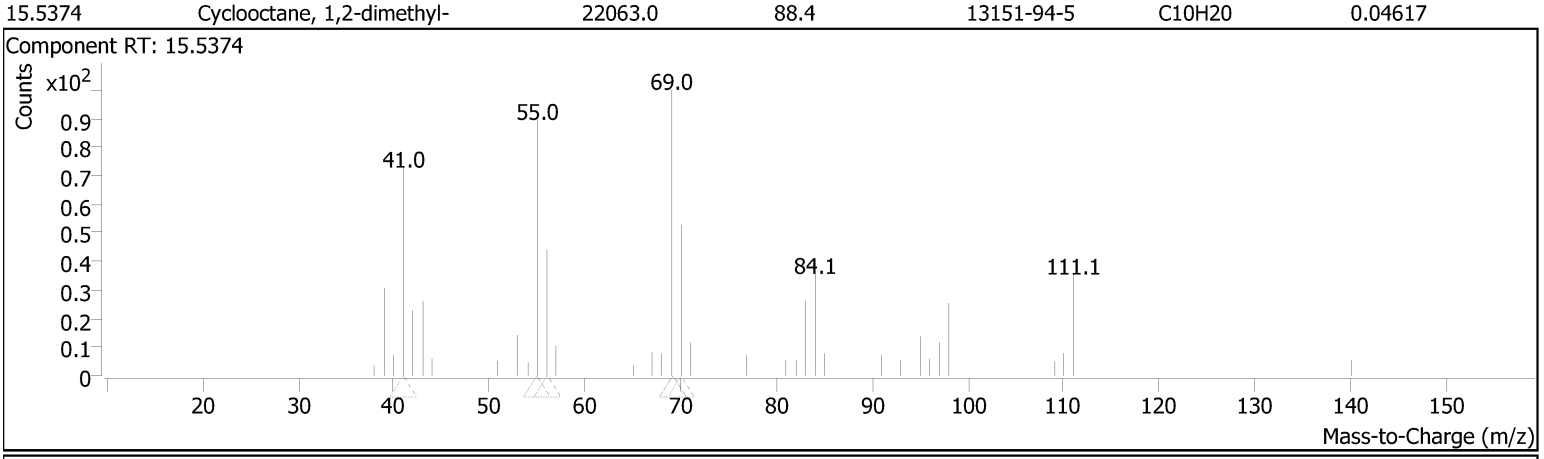



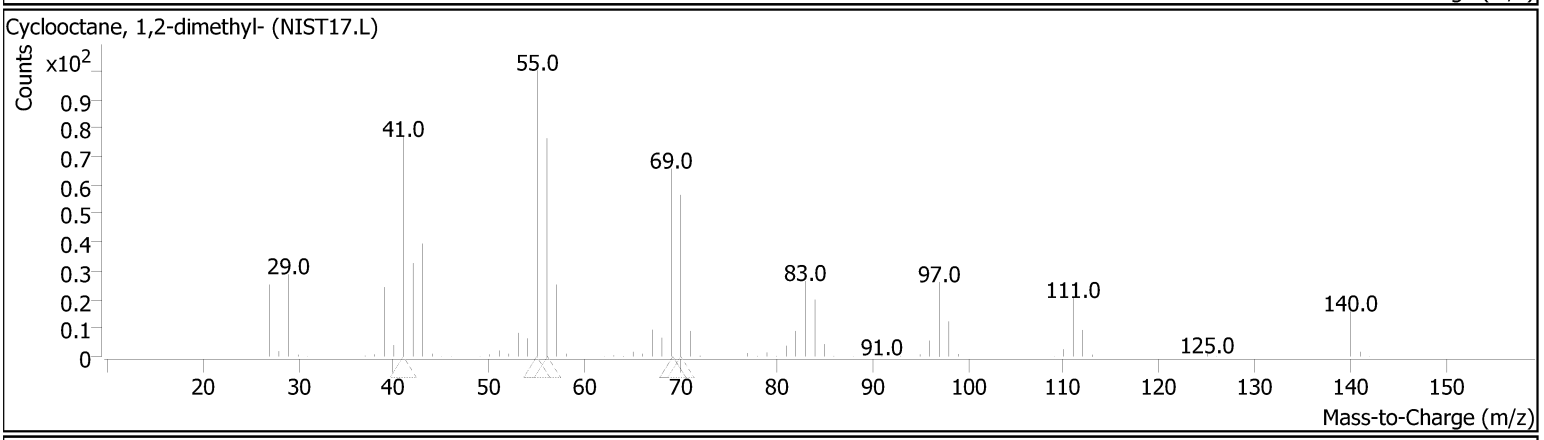



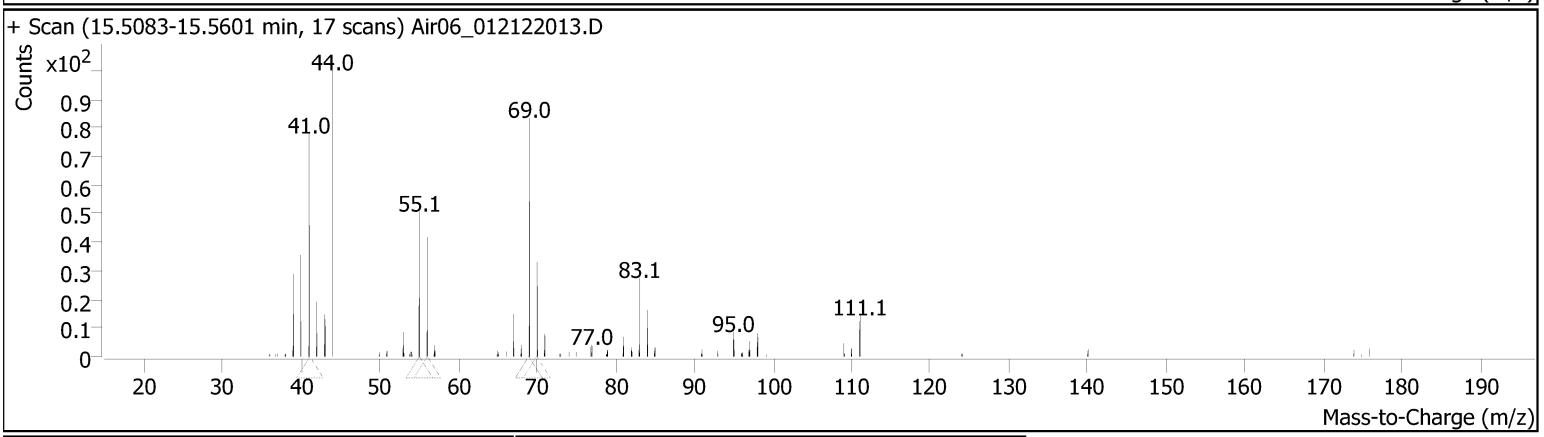



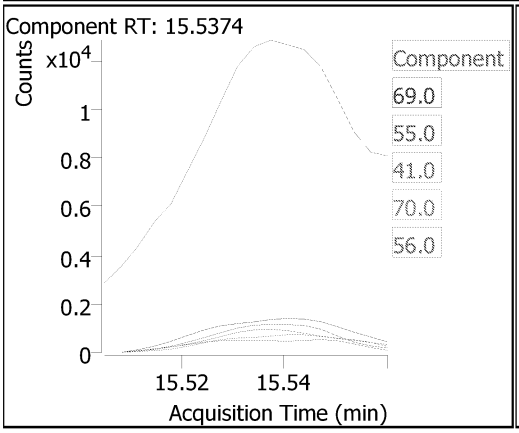


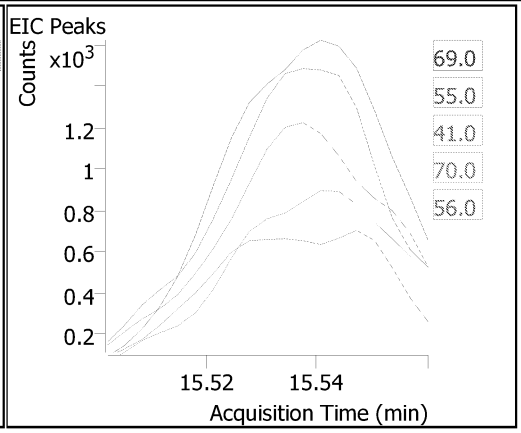

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.5374 | Cyclooctane, 1,2-dimethyl- | 22063.0 | 88.4 | 13151-94-5 | C10H20 | 0.04617 |

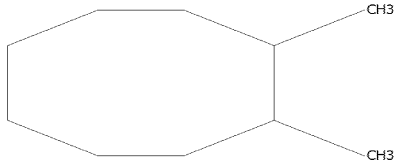


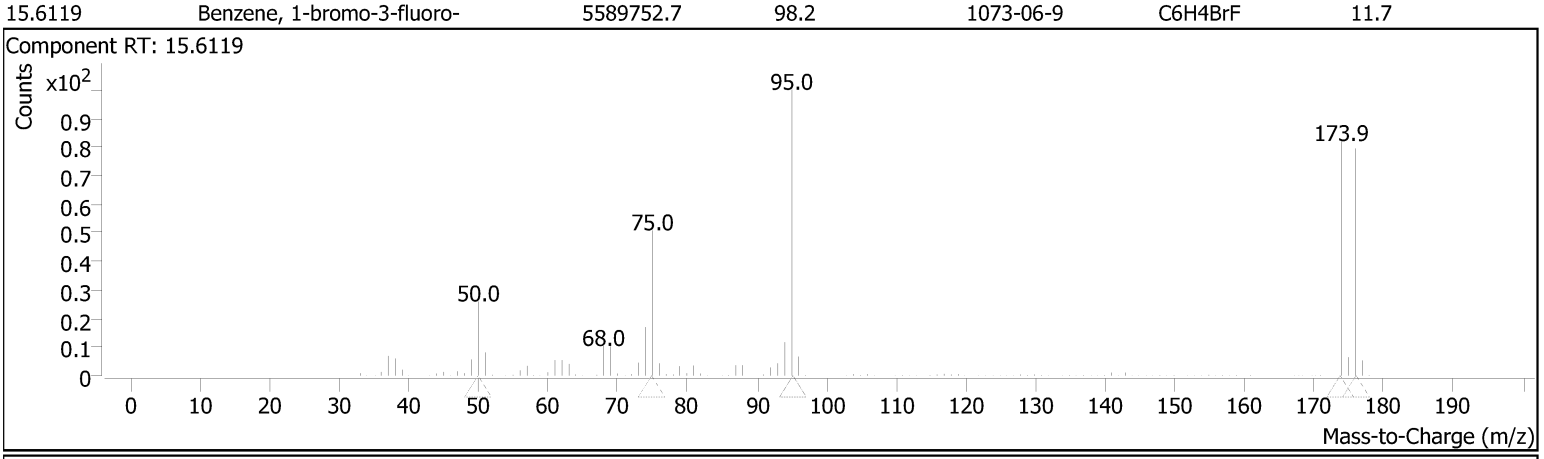



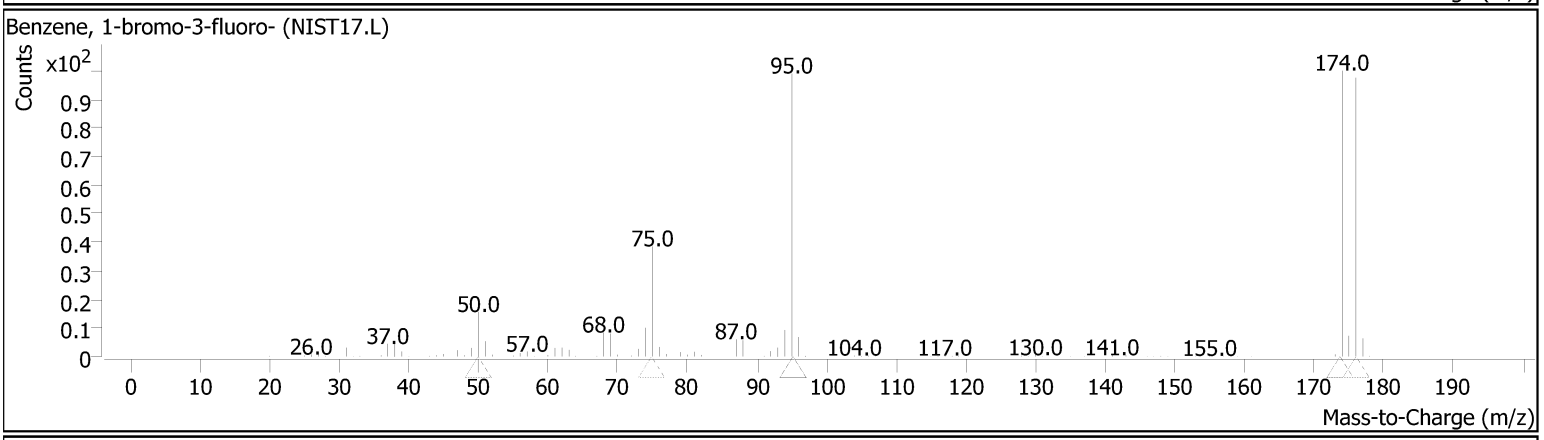



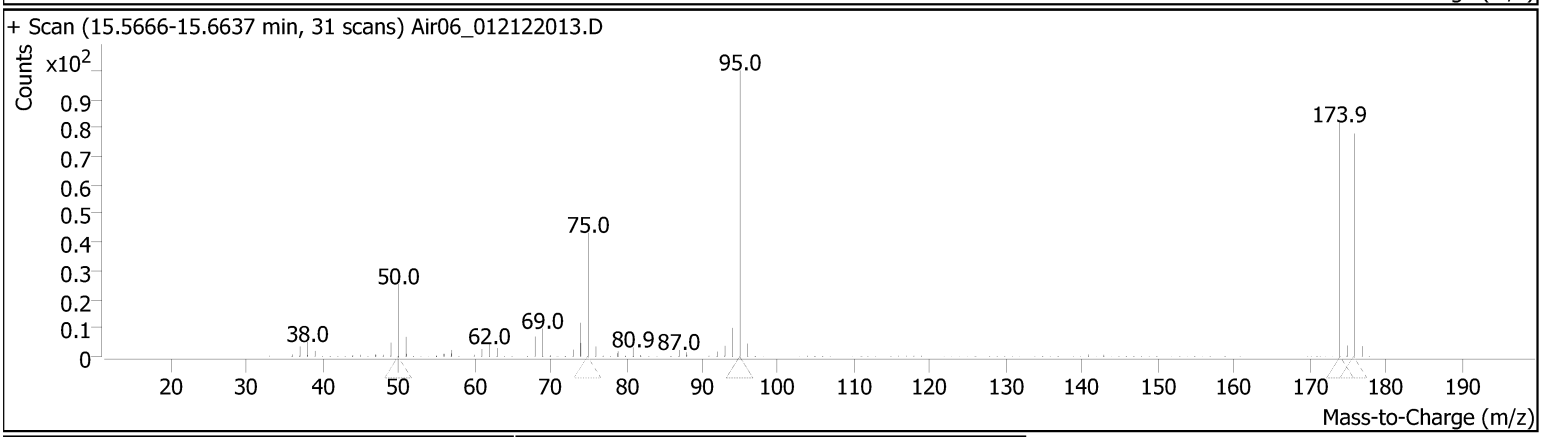



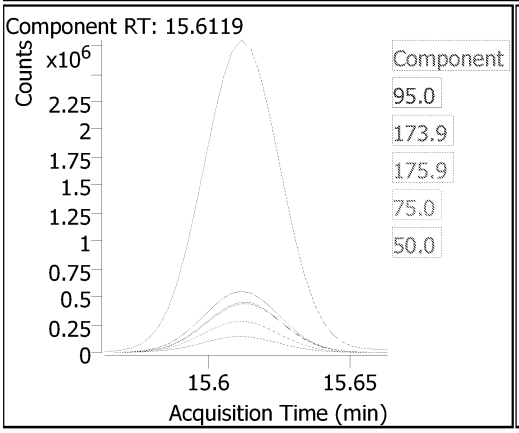



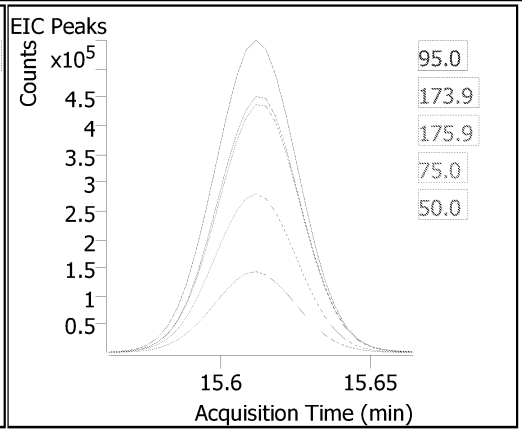
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6119 | Benzene, 1-bromo-3-fluoro- | 5589752.7 | 98.2 | 1073-06-9 | C6H4BrF | 11.7 |

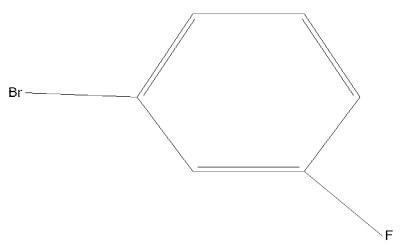


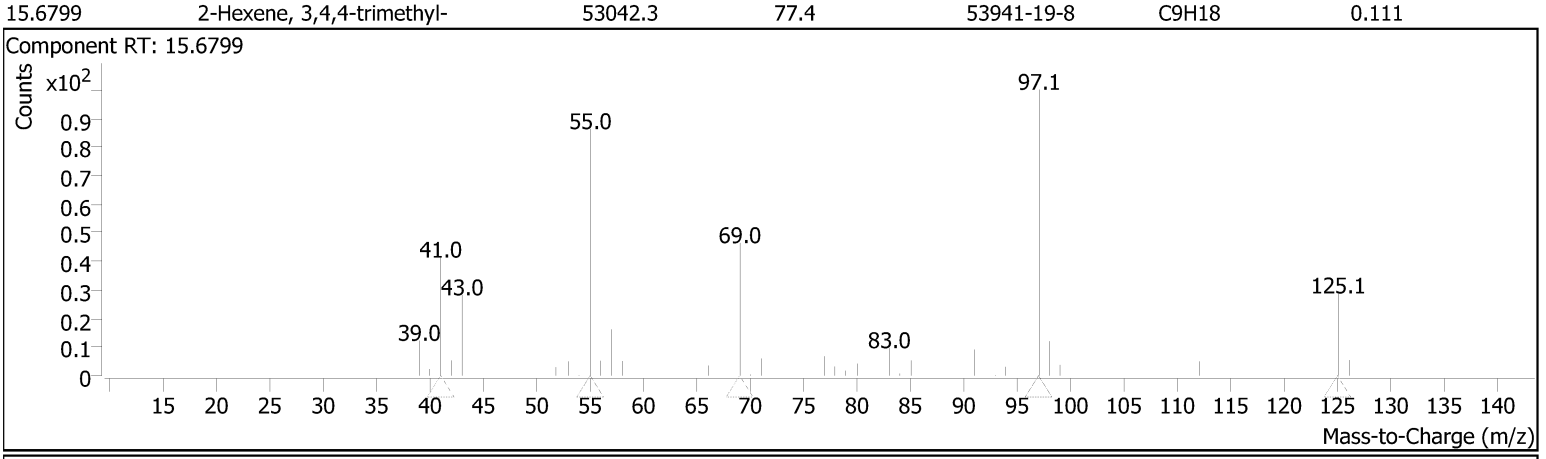



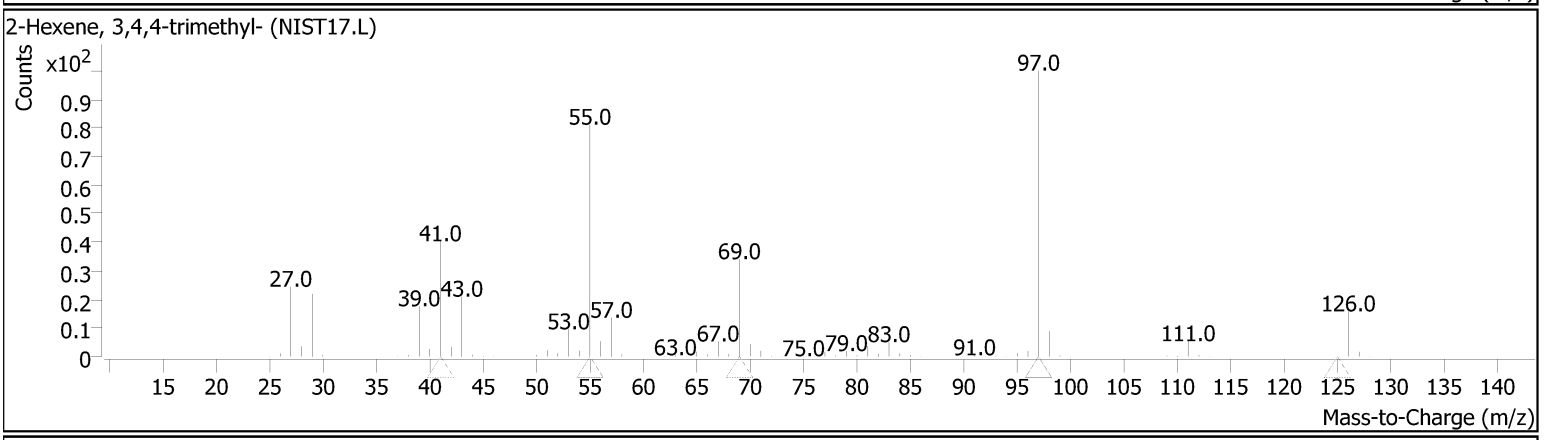



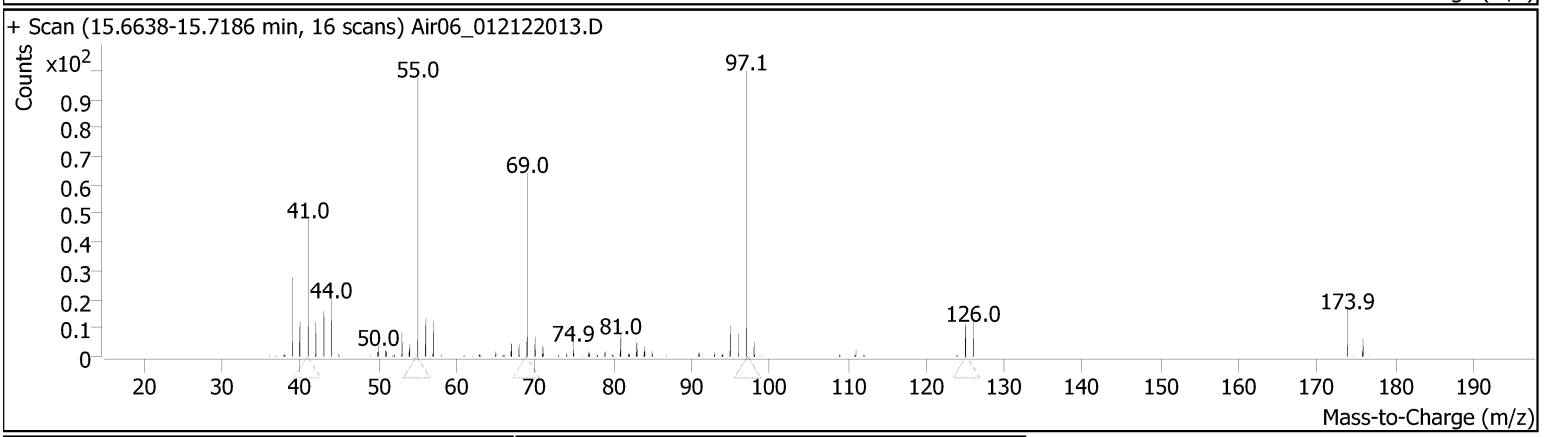



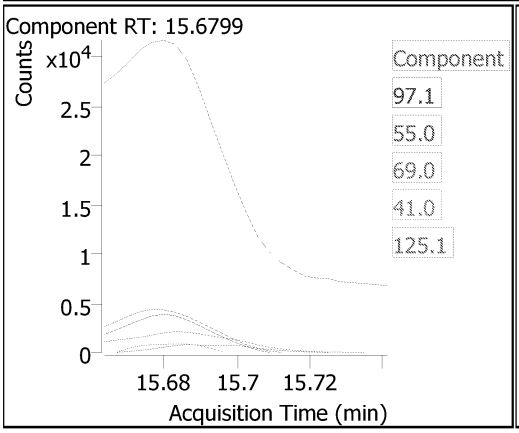



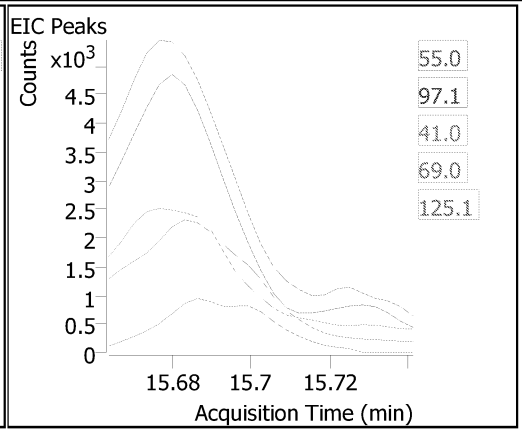
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6799 | 2-Hexene, 3,4,4-trimethyl- | 53042.3 | 77.4 | 53941-19-8 | C9H18 | 0.111 |

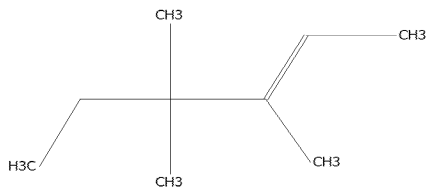


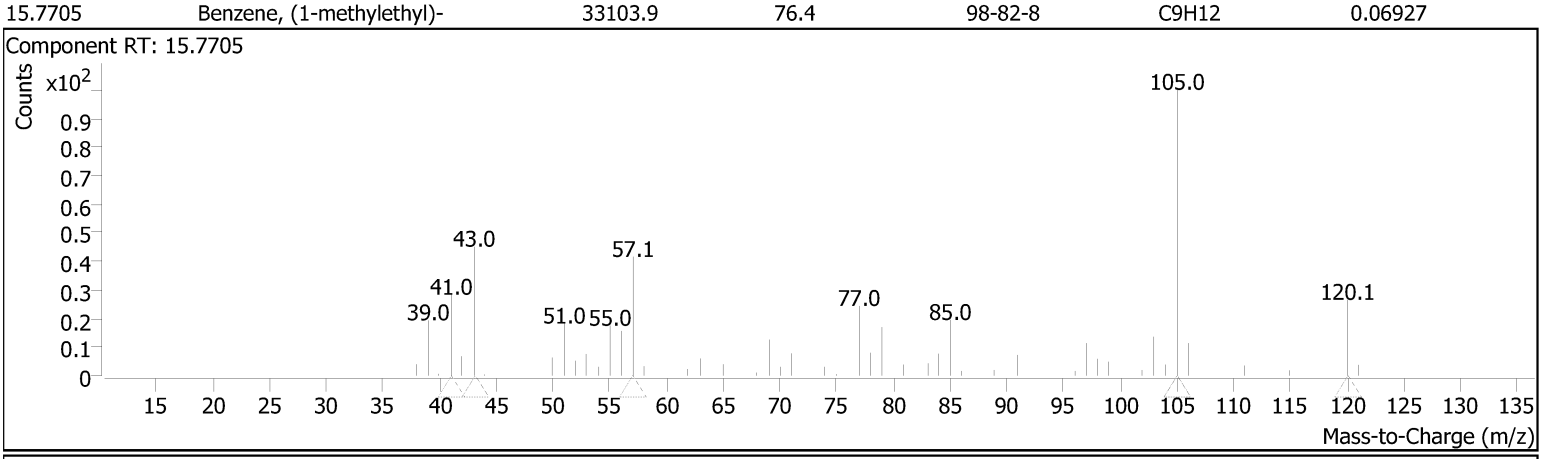



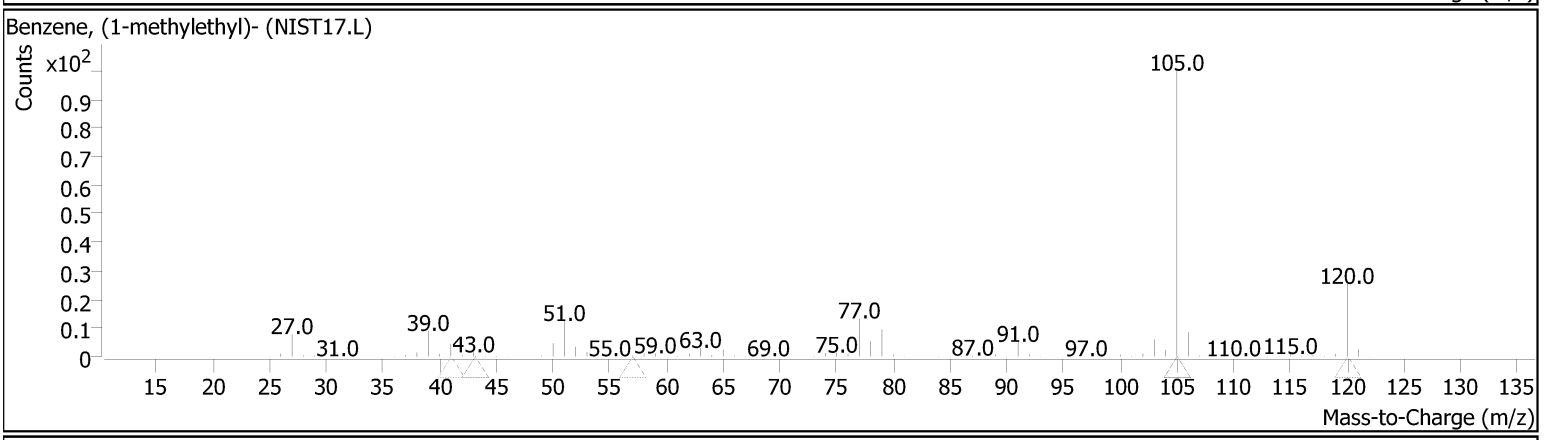



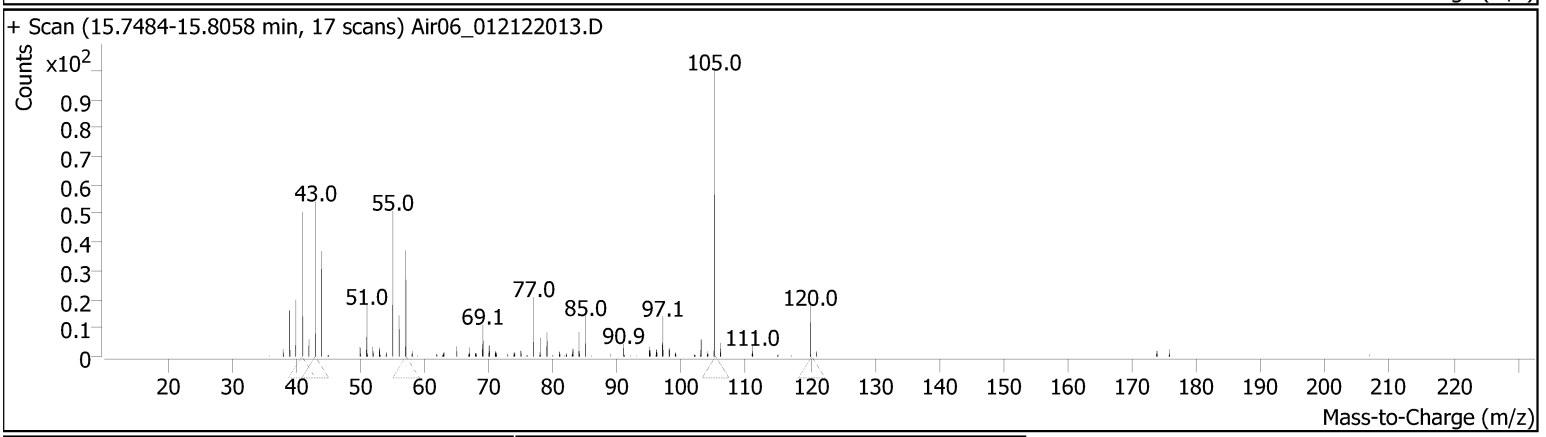



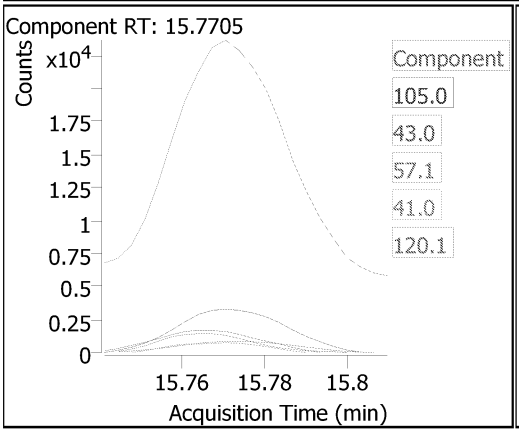



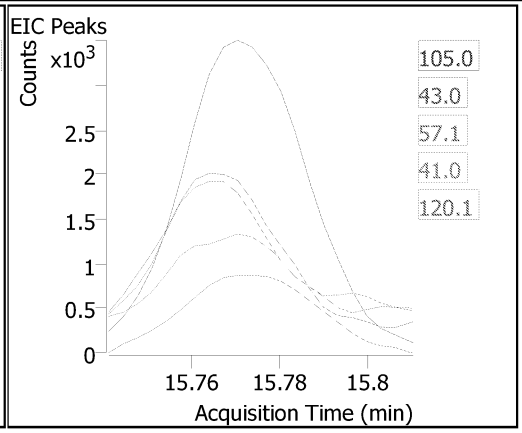
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.7705 | Benzene, (1-methylethyl)- | 33103.9 | 76.4 | 98-82-8 | C9H12 | 0.06927 |

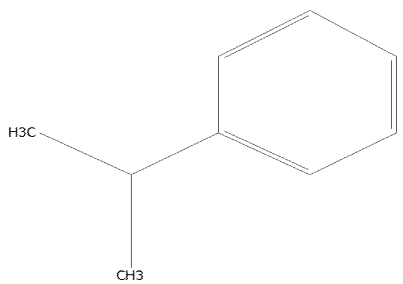


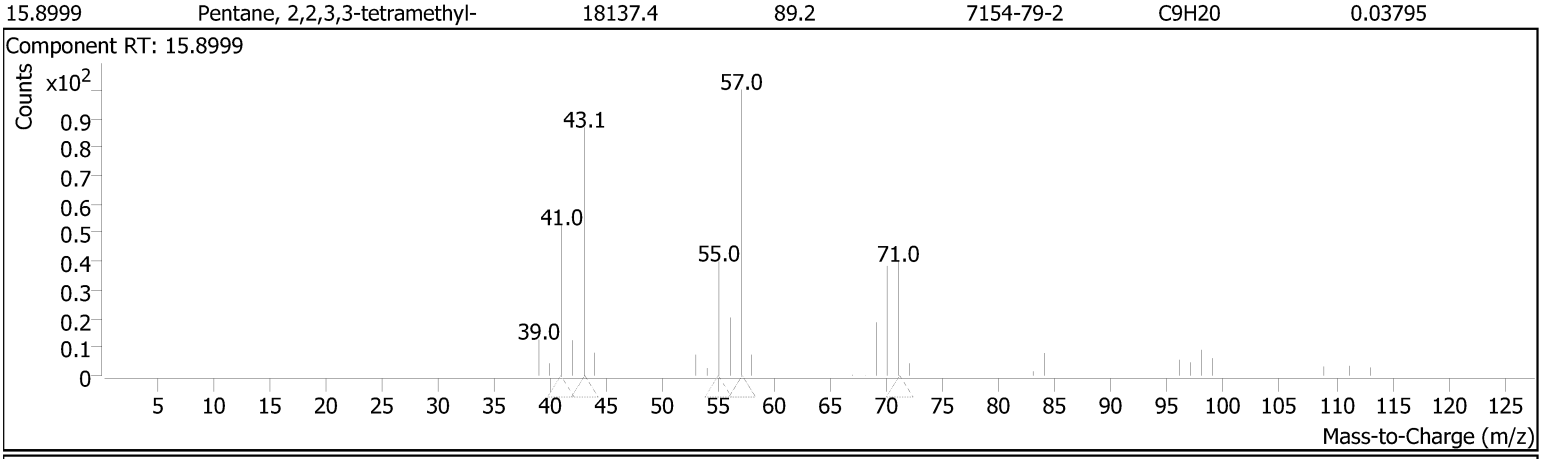



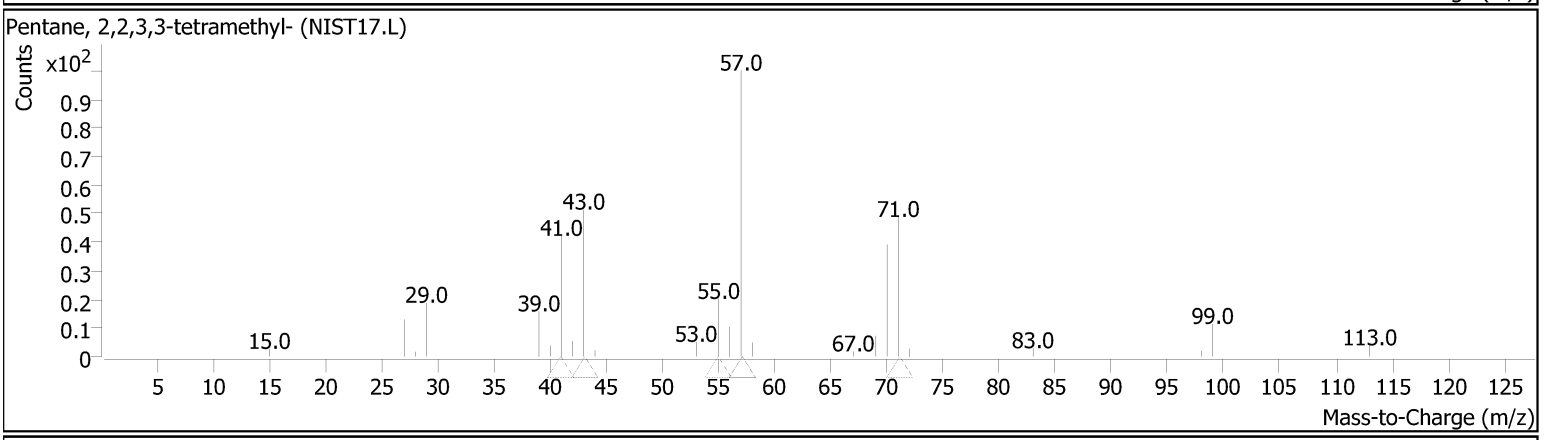



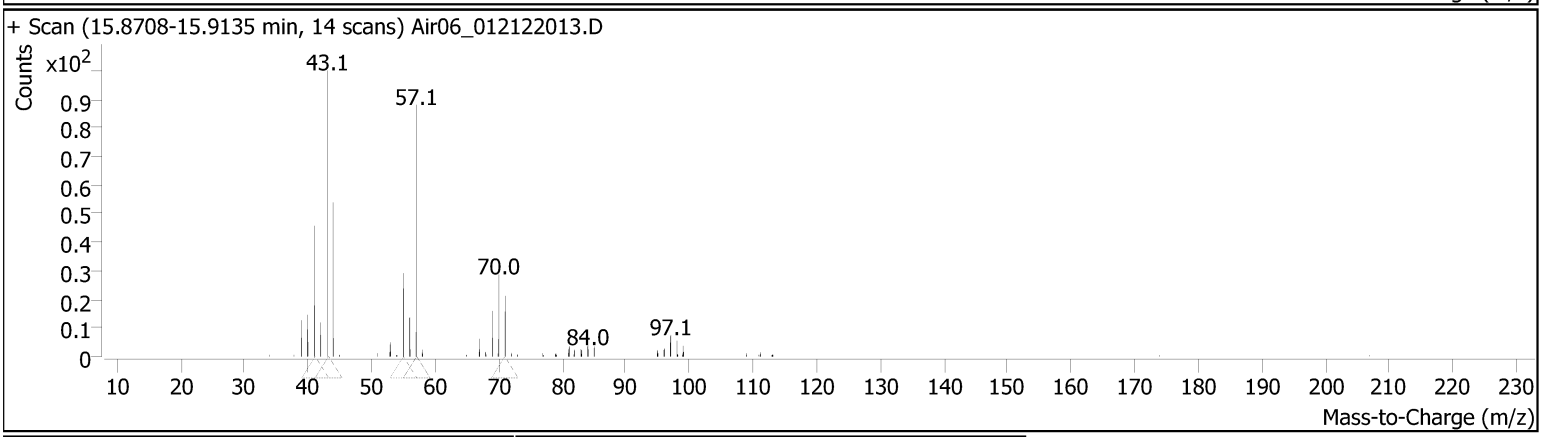
# Library Search Results - NonTarget Hits with Details

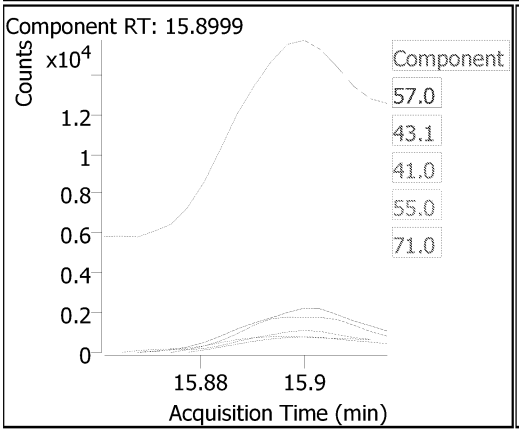
Agilent Technologies

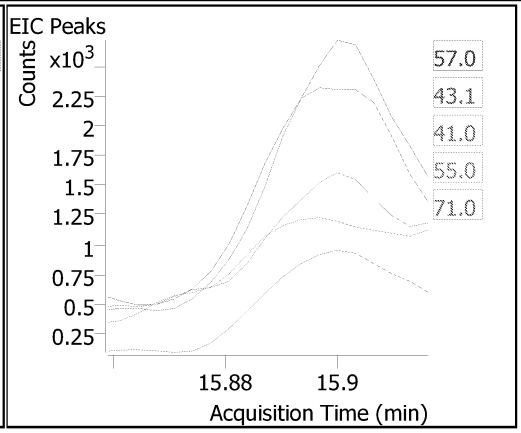
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.8999 | Pentane, 2,2,3,3-tetramethyl- | 18137.4 | 89.2 | 7154-79-2 | C9H20 | 0.03795 |

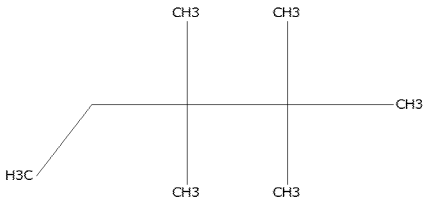


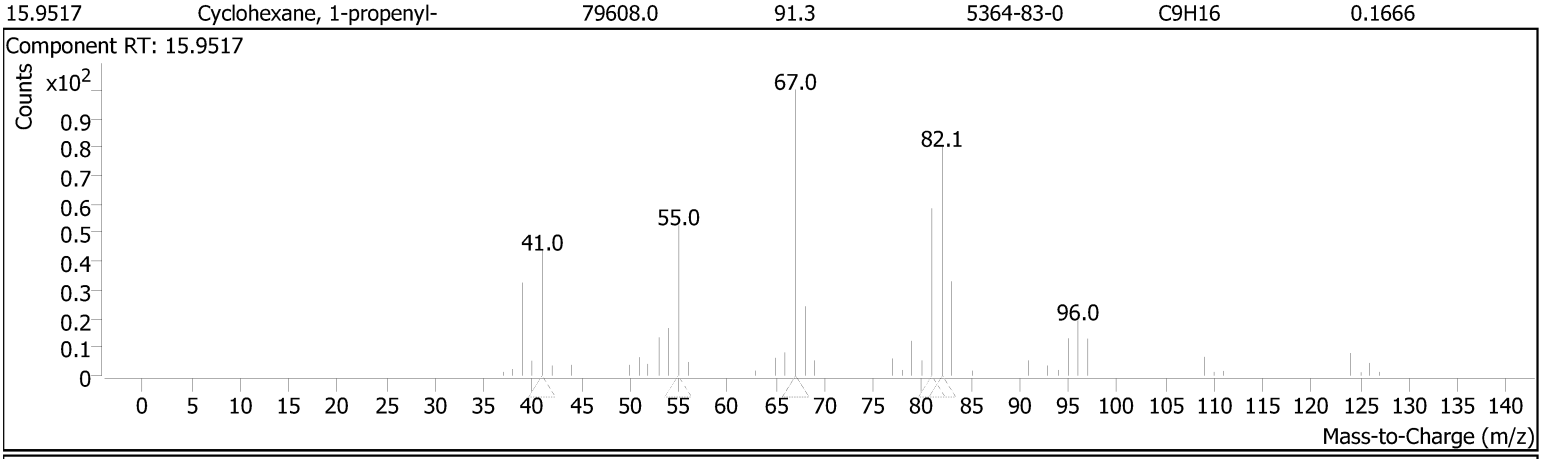



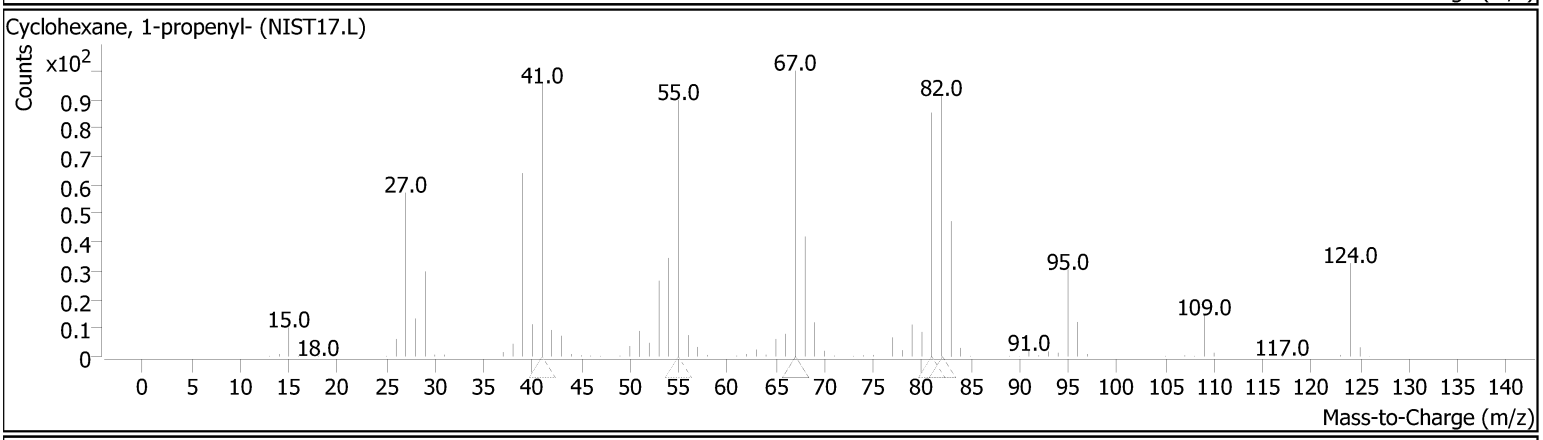



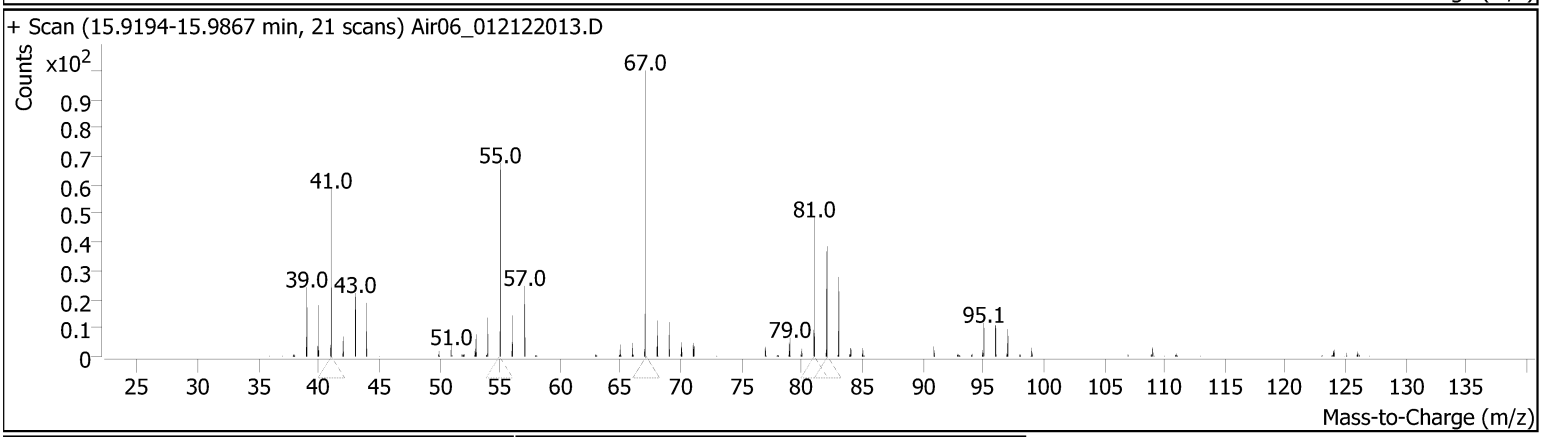



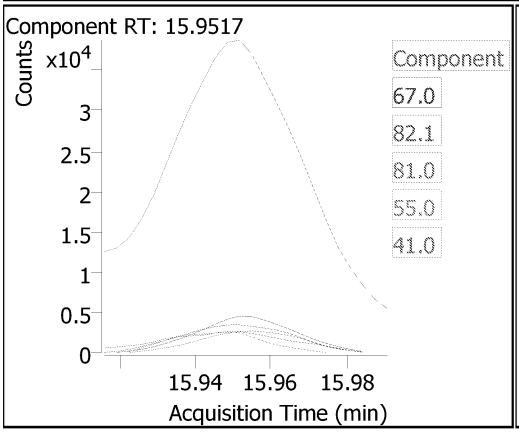



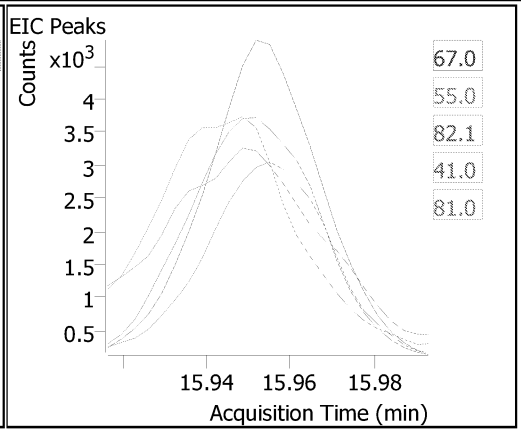
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.9517 | Cyclohexane, 1-propenyl- | 79608.0 | 91.3 | 5364-83-0 | C9H16 | 0.1666 |

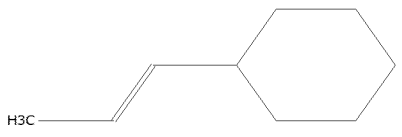


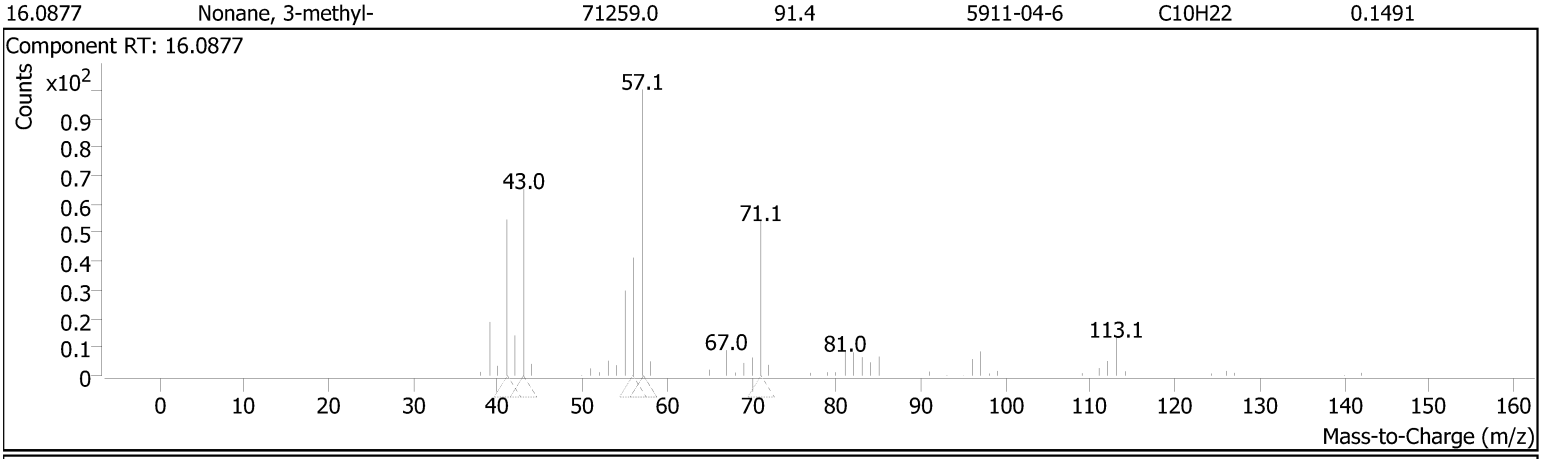



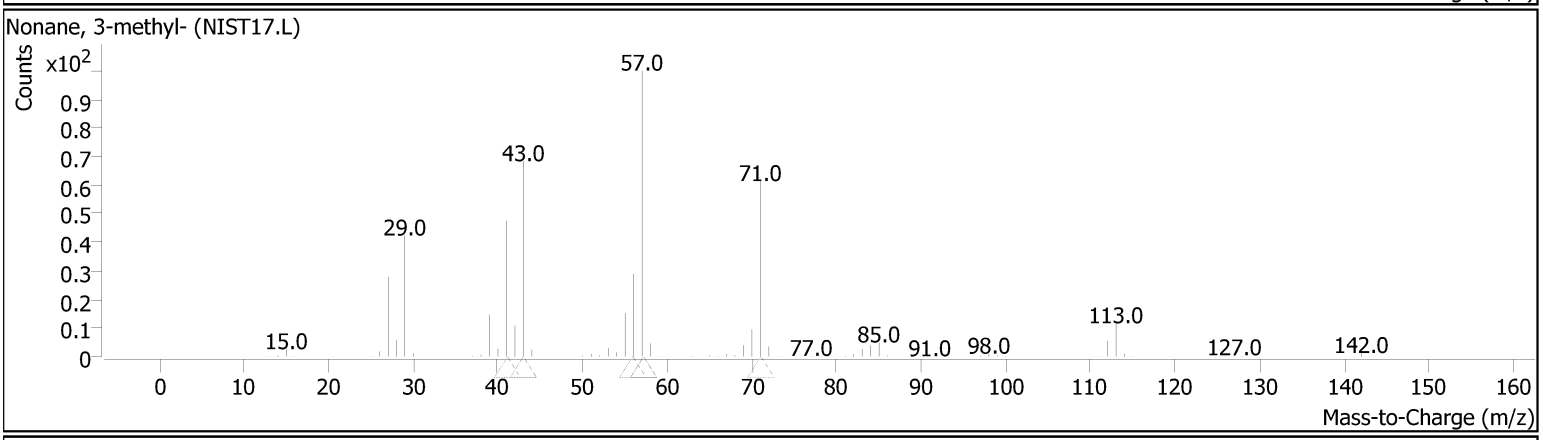



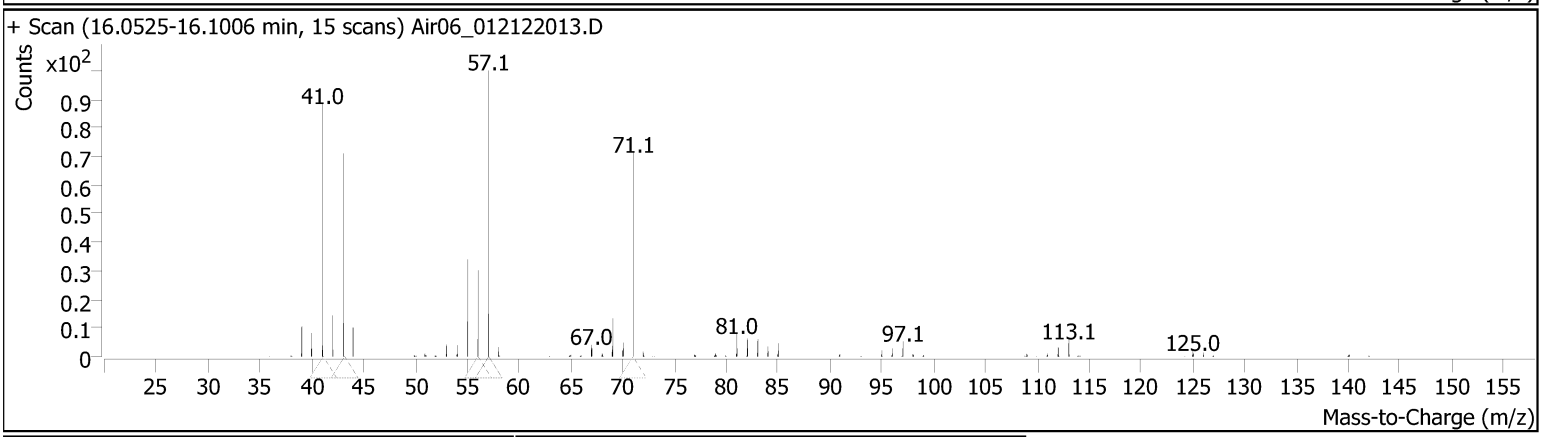



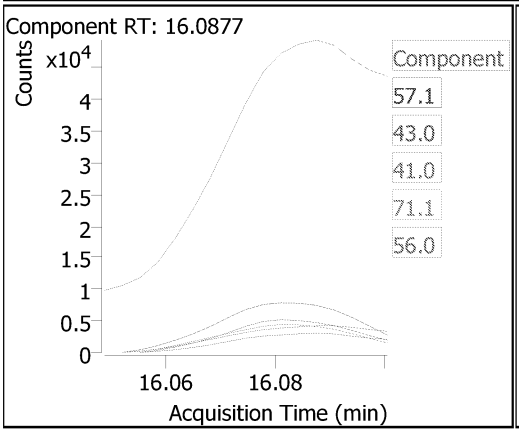



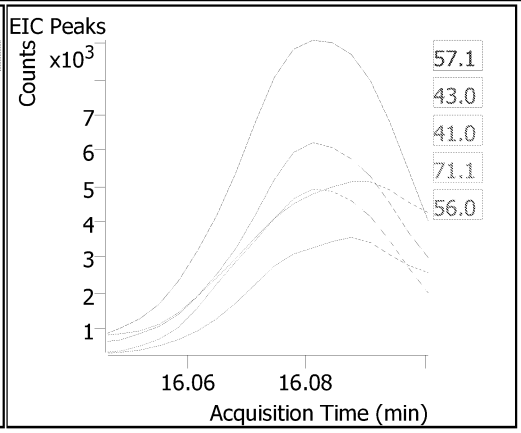
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.0877 | Nonane, 3-methyl- | 71259.0 | 91.4 | 5911-04-6 | C10H22 | 0.1491 |

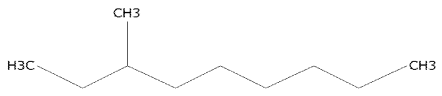


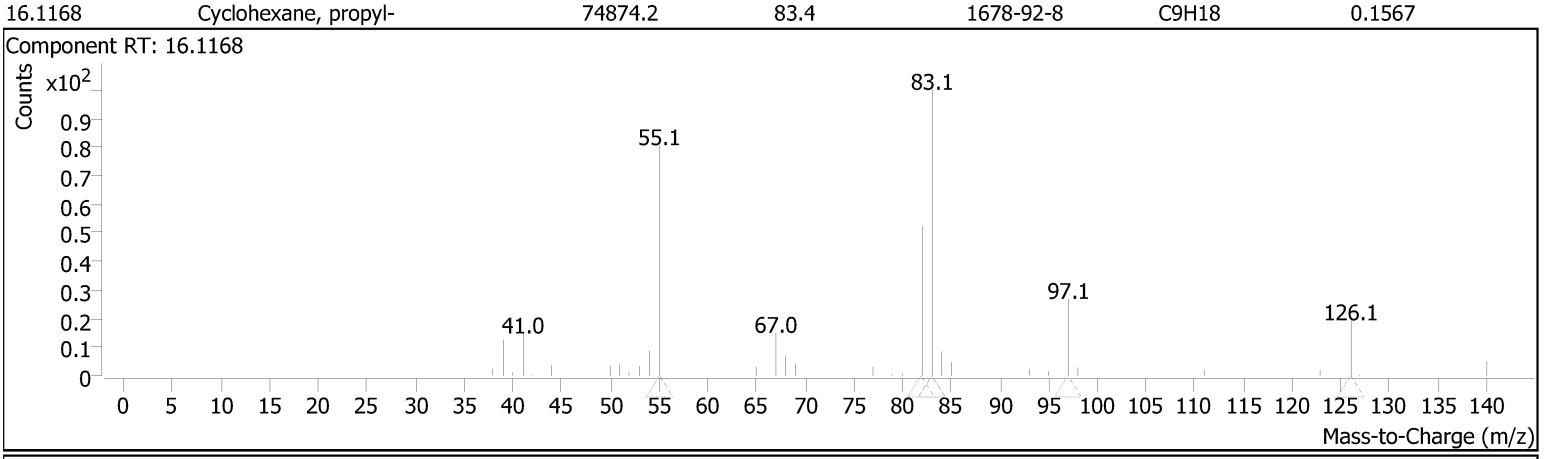



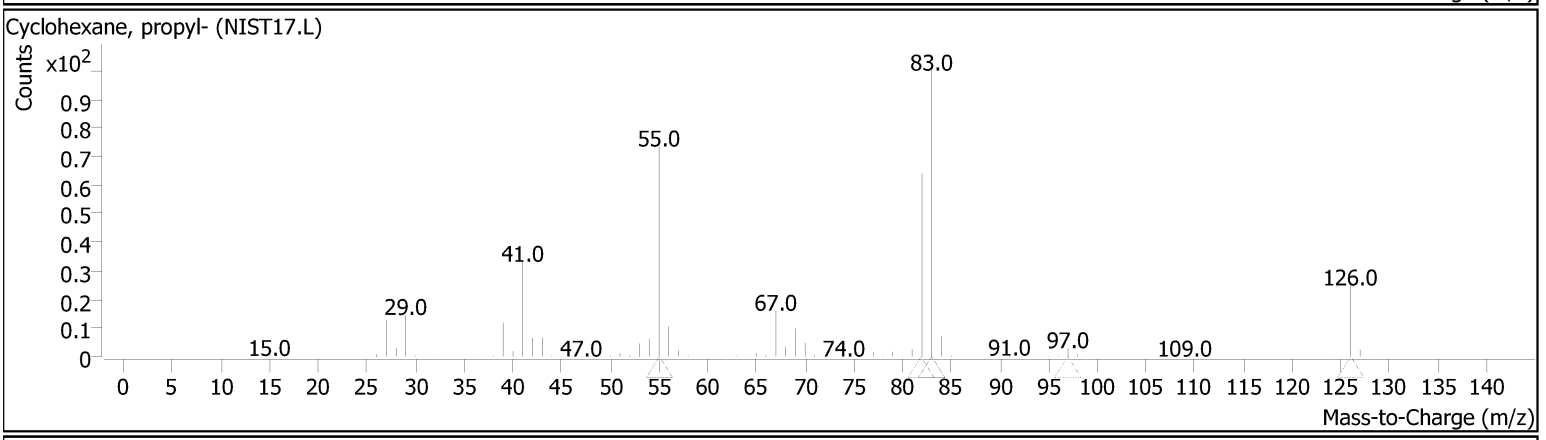



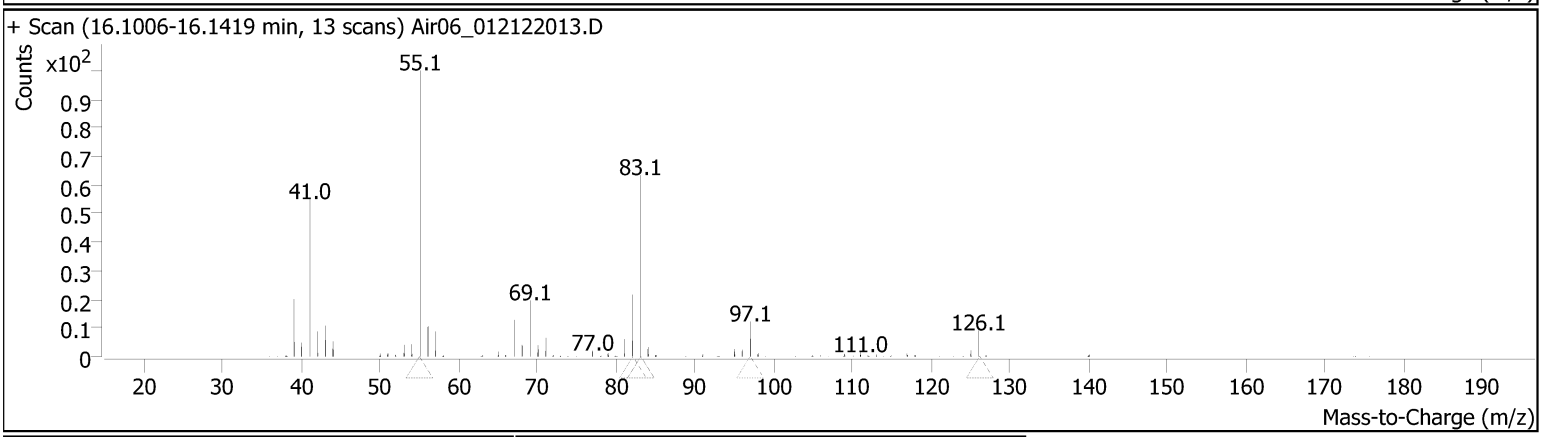



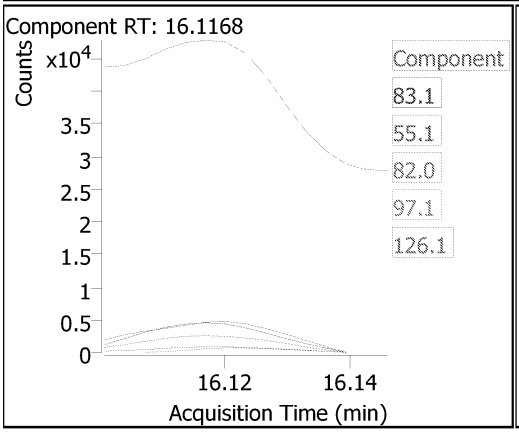



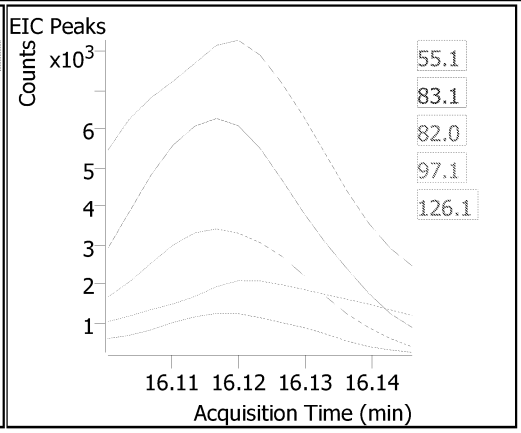
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1168 | Cyclohexane, propyl- | 74874.2 | 83.4 | 1678-92-8 | C9H18 | 0.1567 |

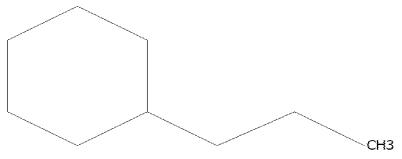


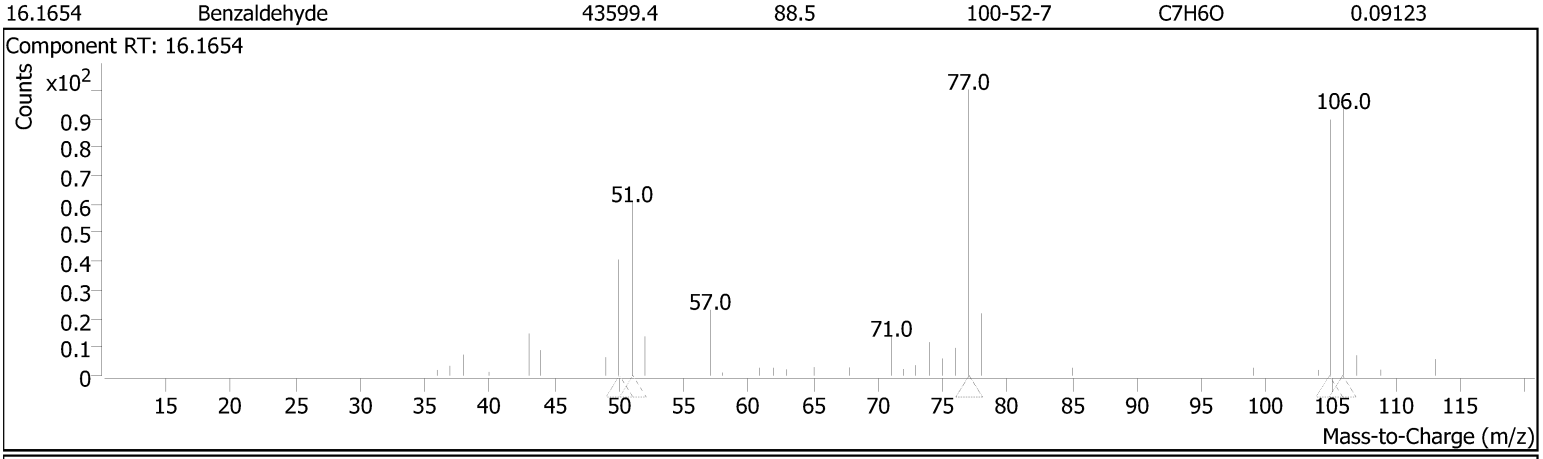



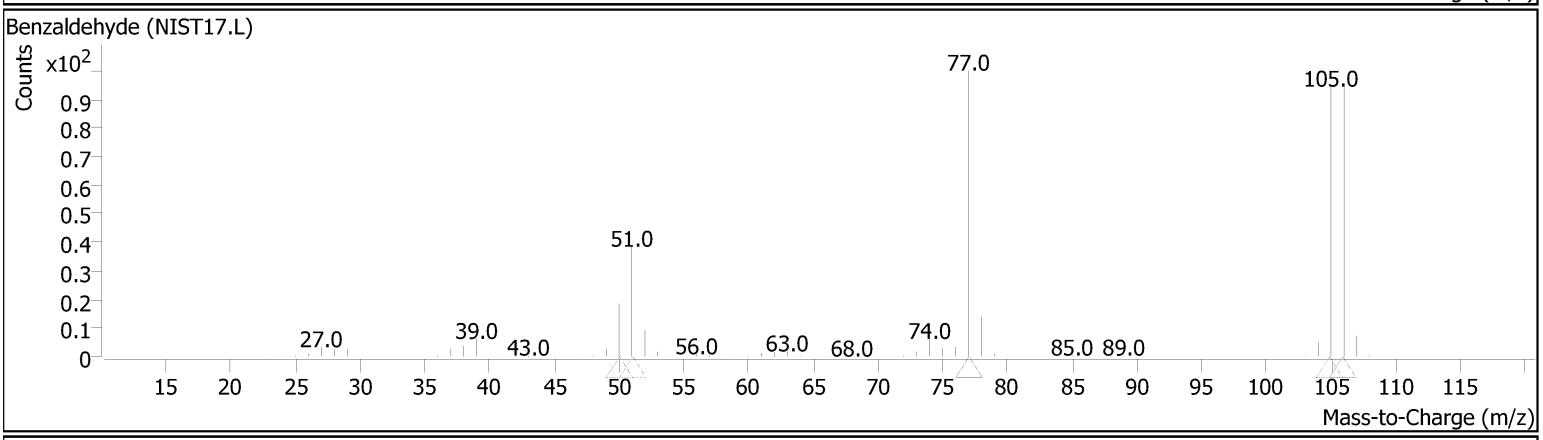



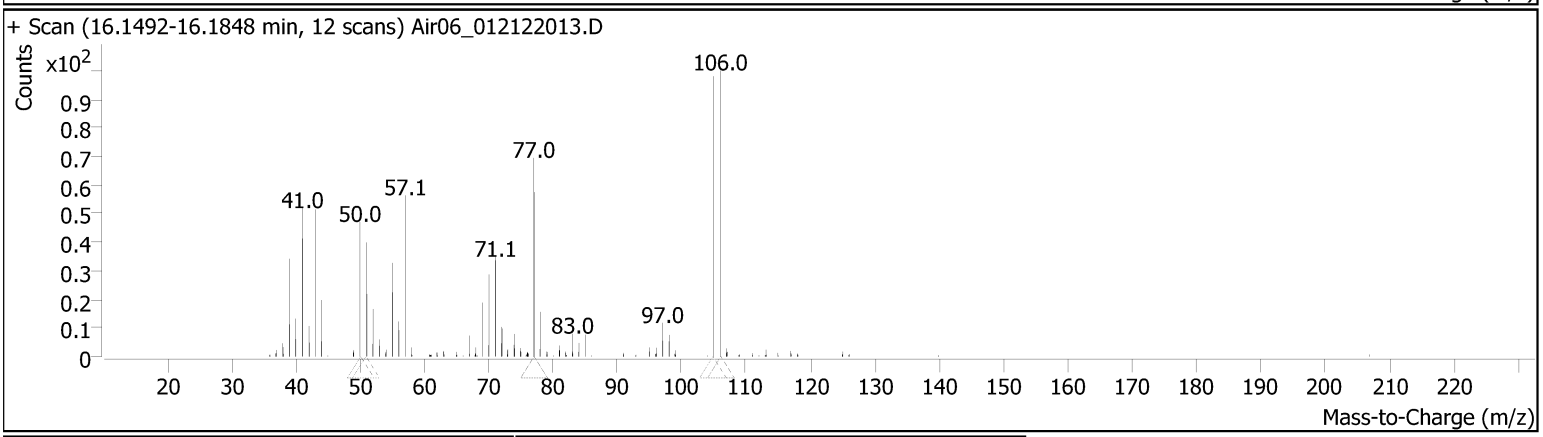



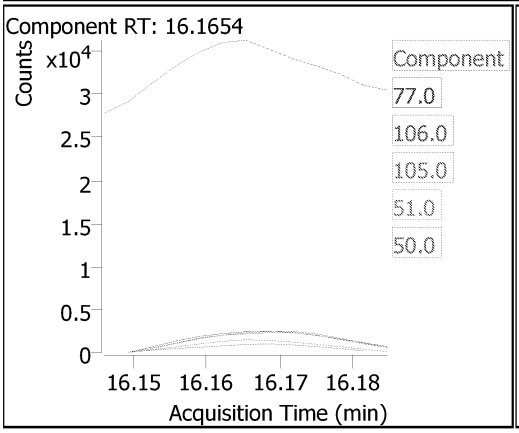



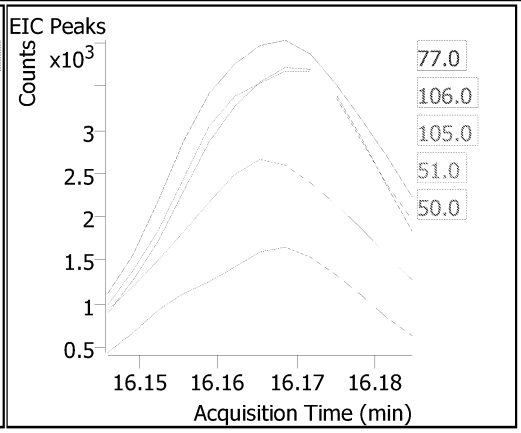
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1654 | Benzaldehyde | 43599.4 | 88.5 | 100-52-7 | C7H6O | 0.09123 |

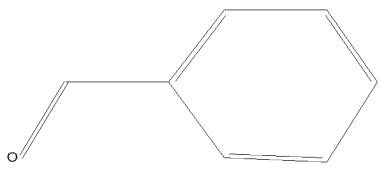


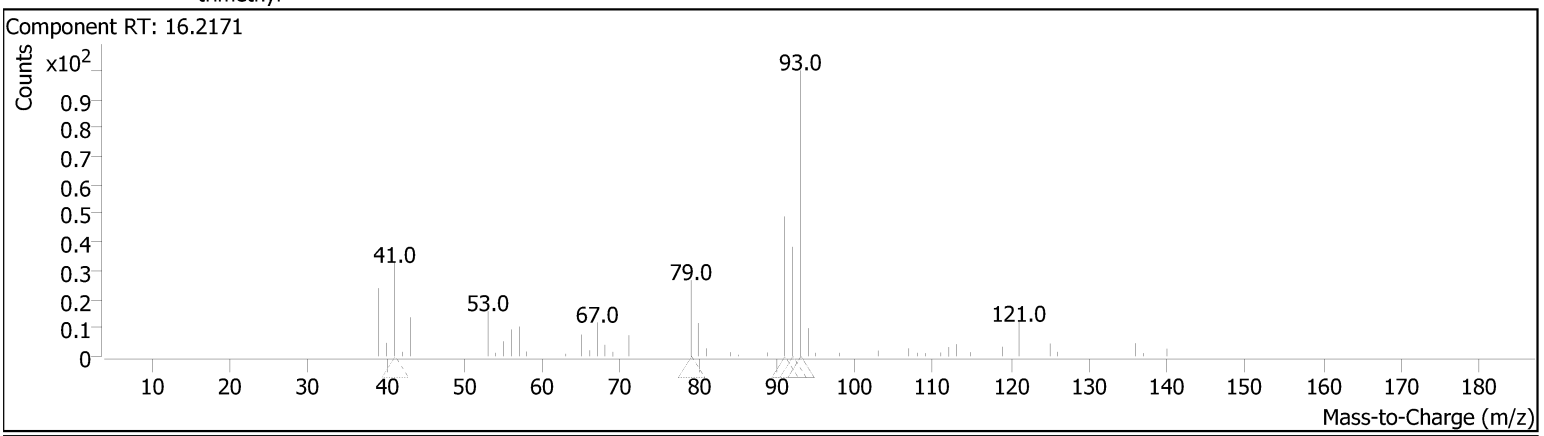



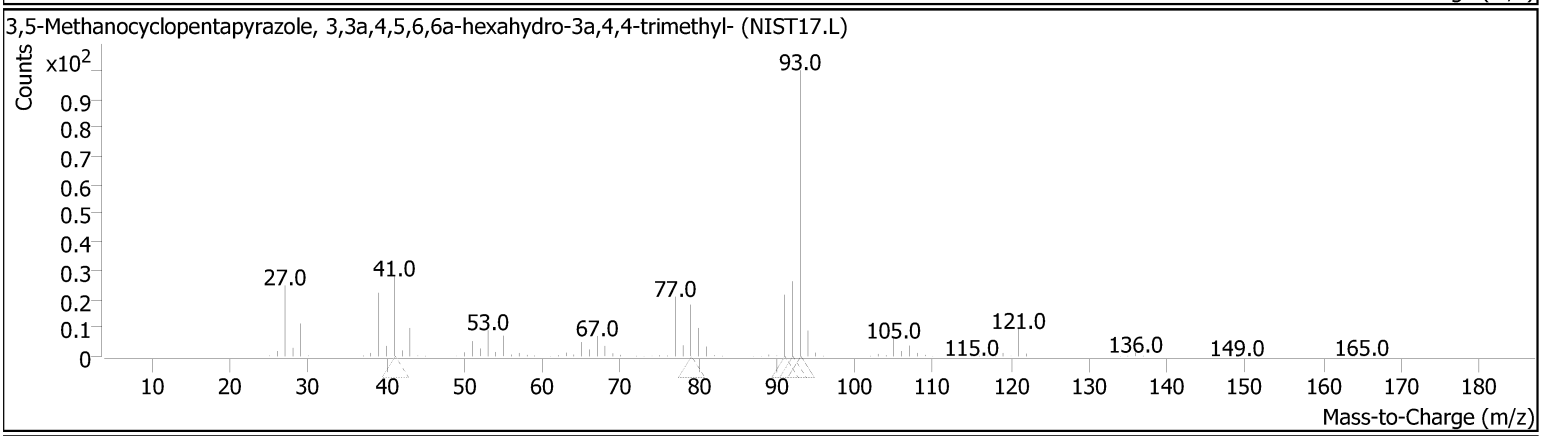



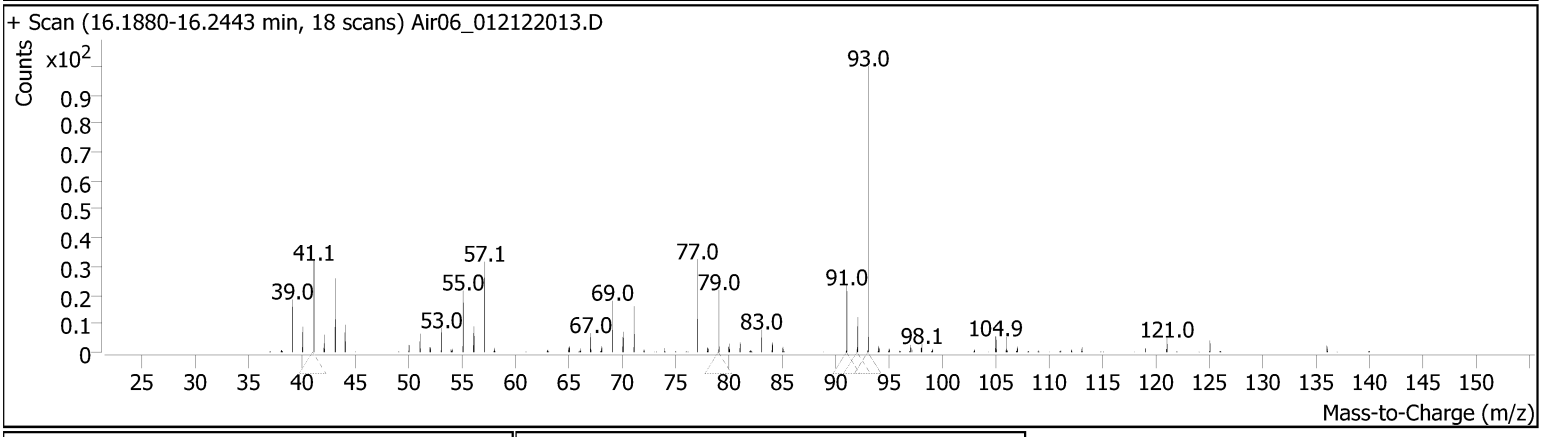



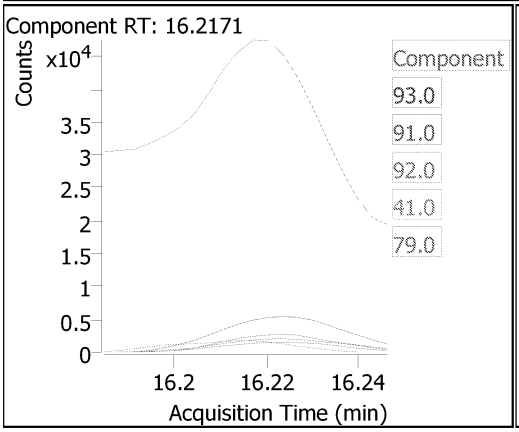



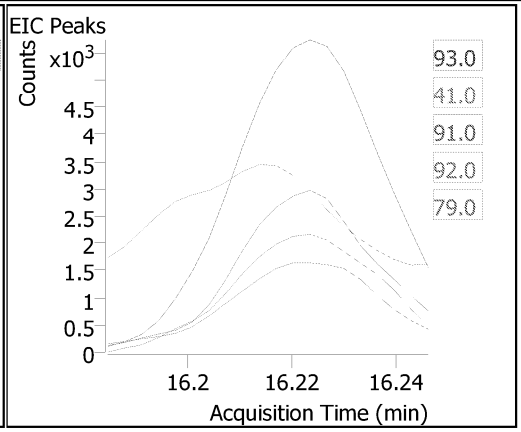
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.2171 | 3,5-Methanocyclopentapyrazole, 3,3a,4,5,6,6a-hexahydro-3a,4,4-trimethyl- | 70002.7 | 77.9 | 87143-58-6 | C10H16N2 | 0.1465 |

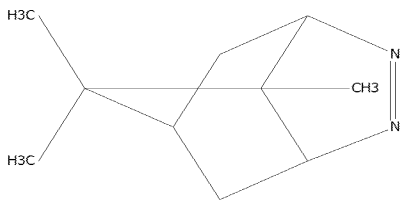


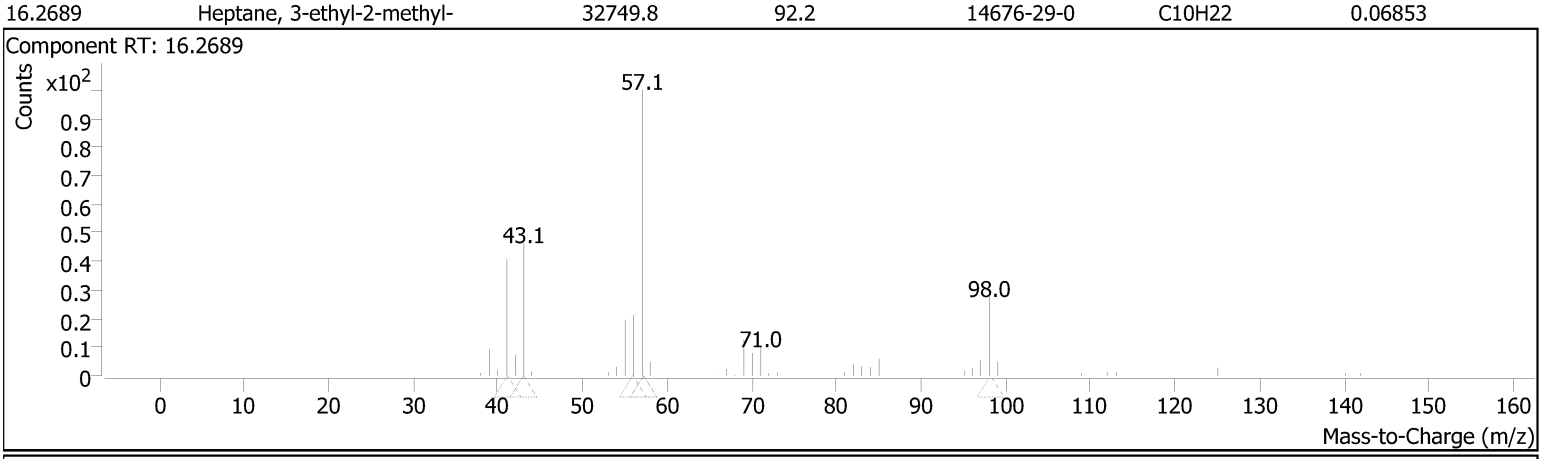



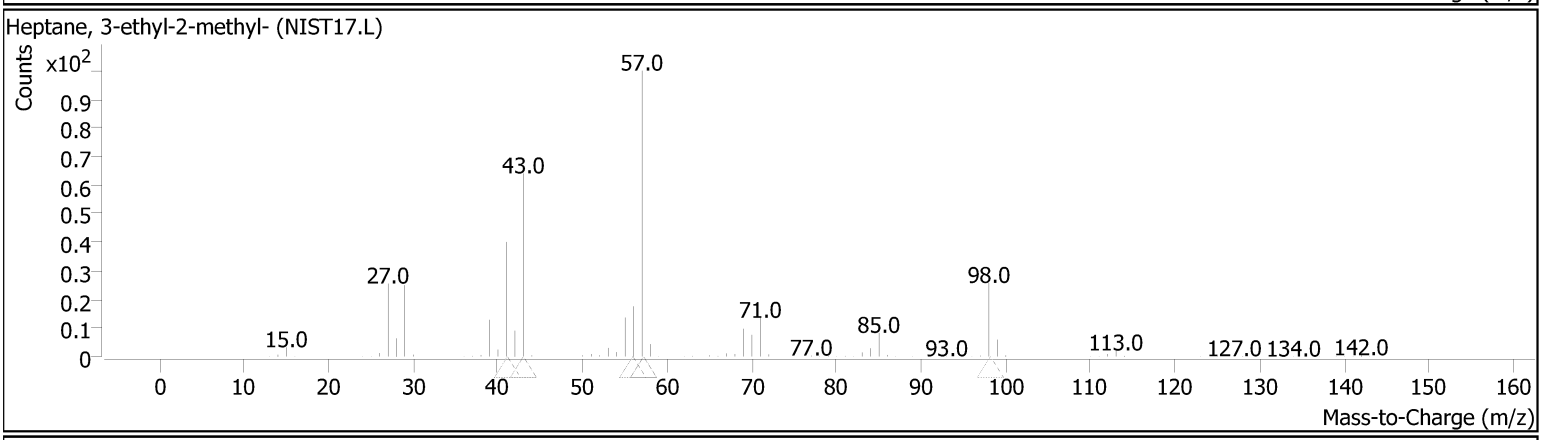



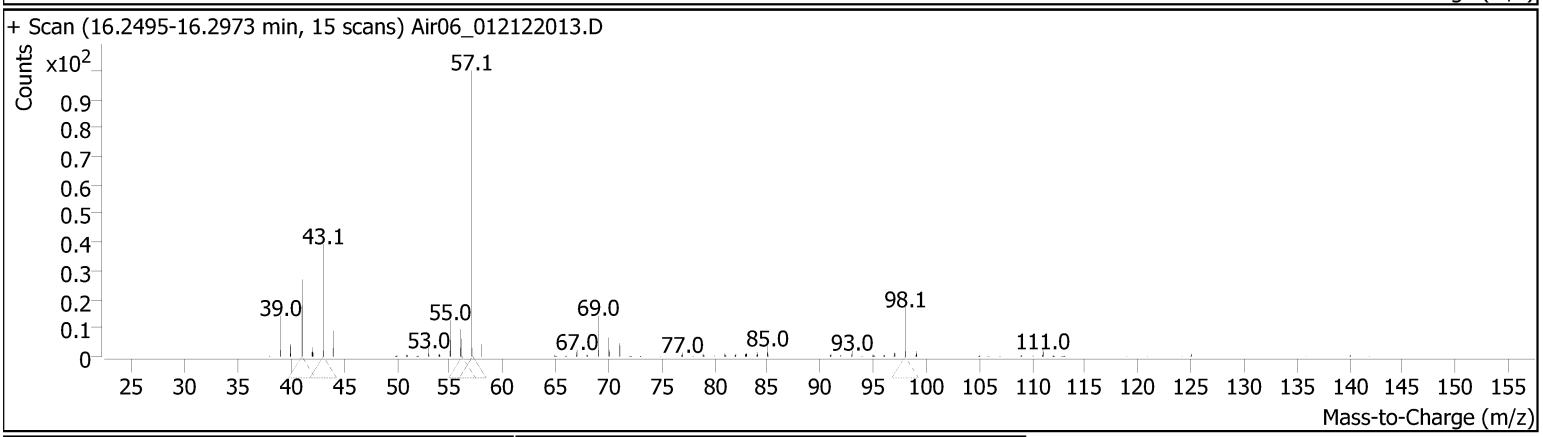



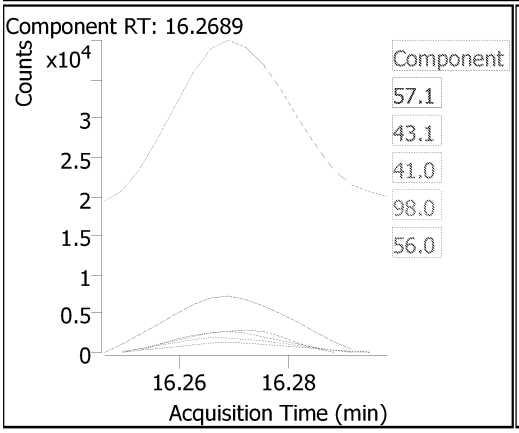



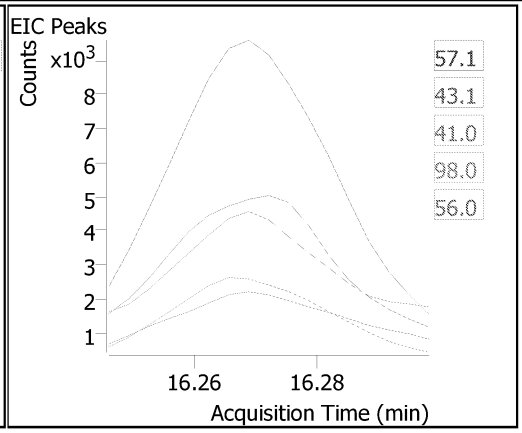
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.2689 | Heptane, 3-ethyl-2-methyl- | 32749.8 | 92.2 | 14676-29-0 | C10H22 | 0.06853 |

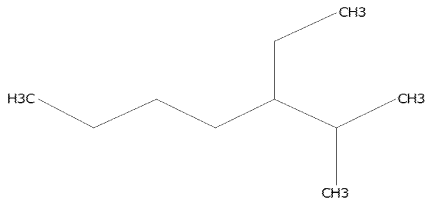


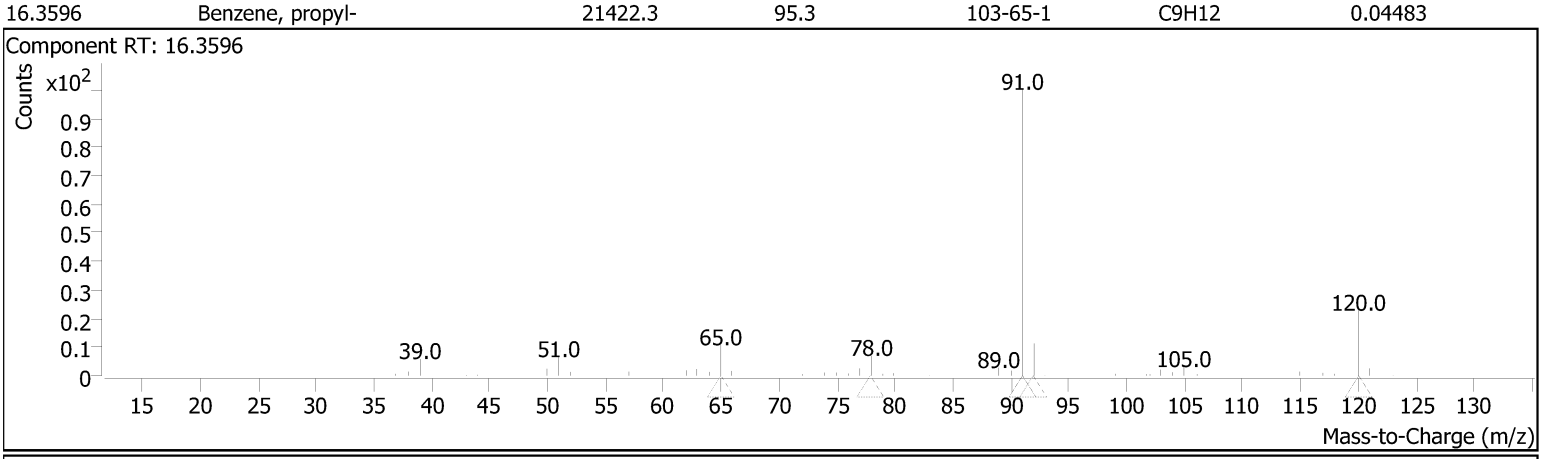



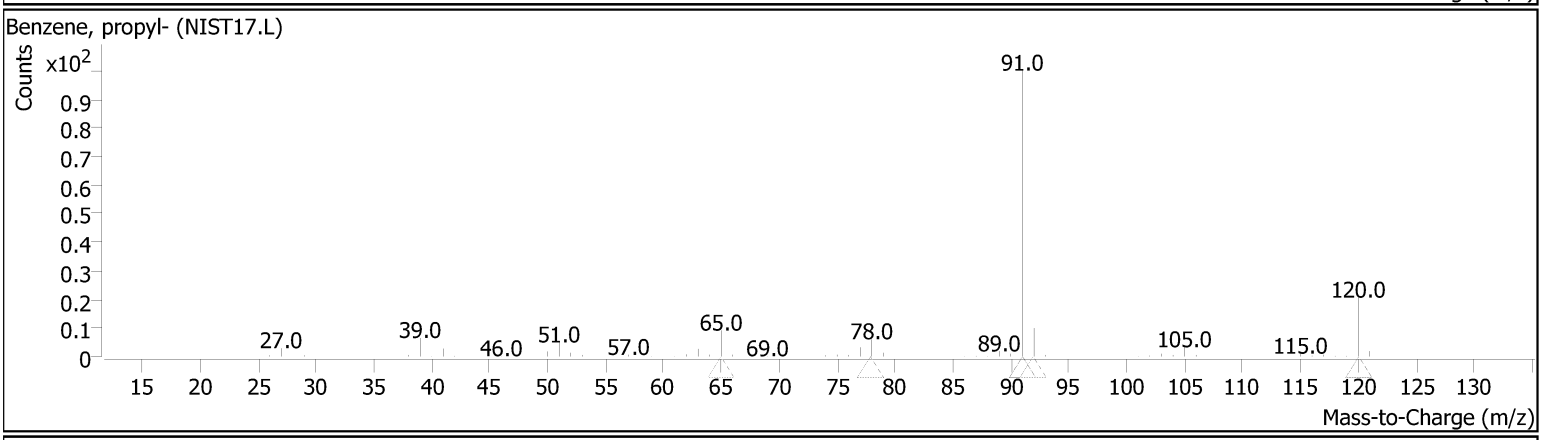



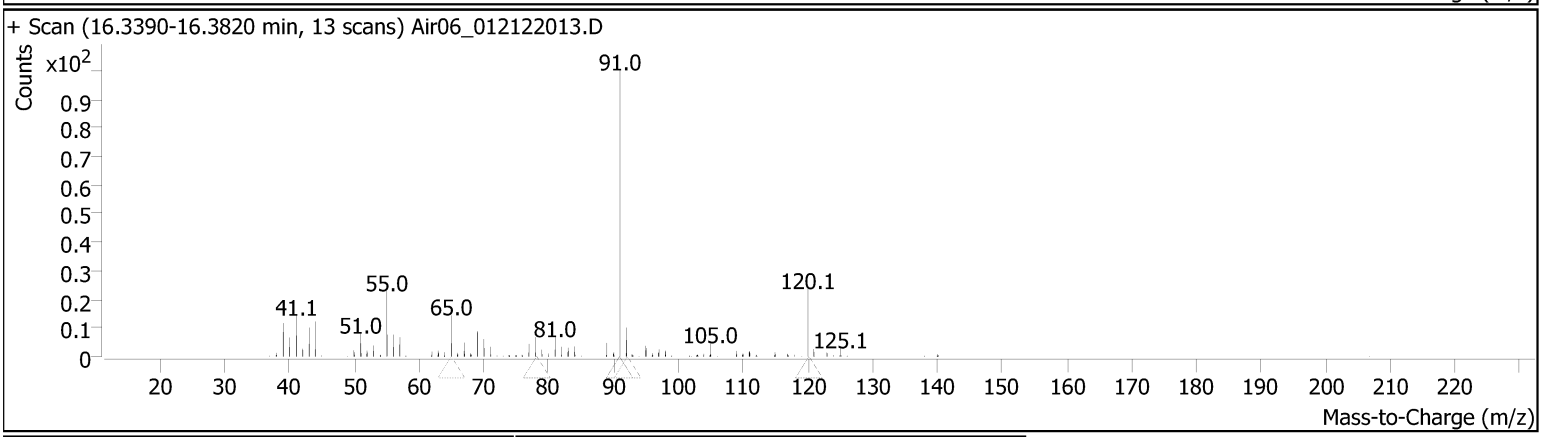



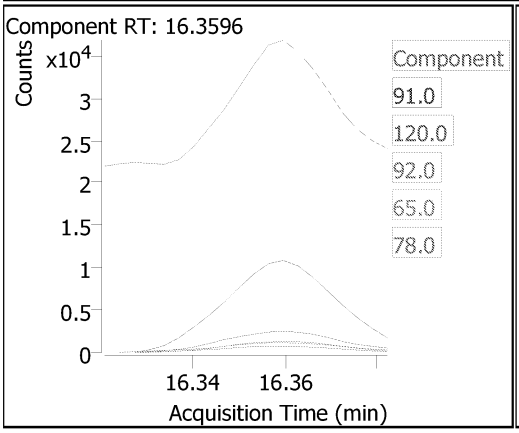



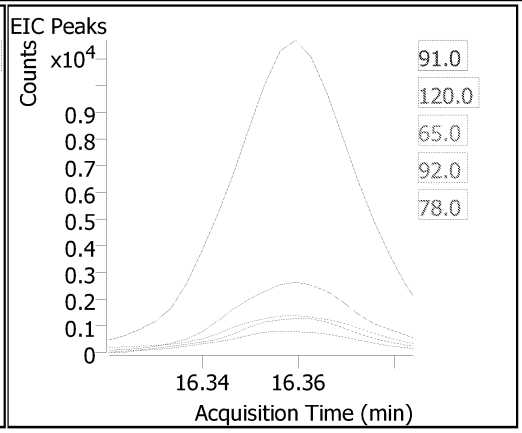
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.3596 | Benzene, propyl- | 21422.3 | 95.3 | 103-65-1 | C9H12 | 0.04483 |

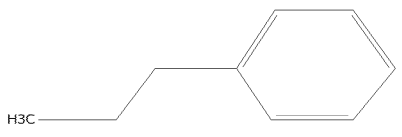


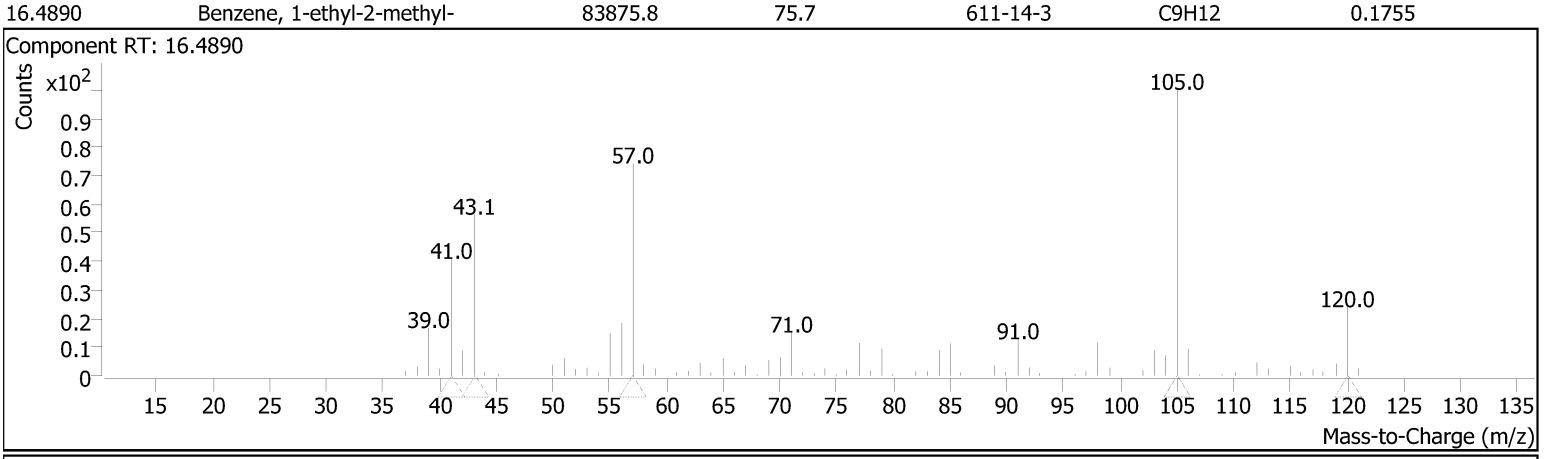



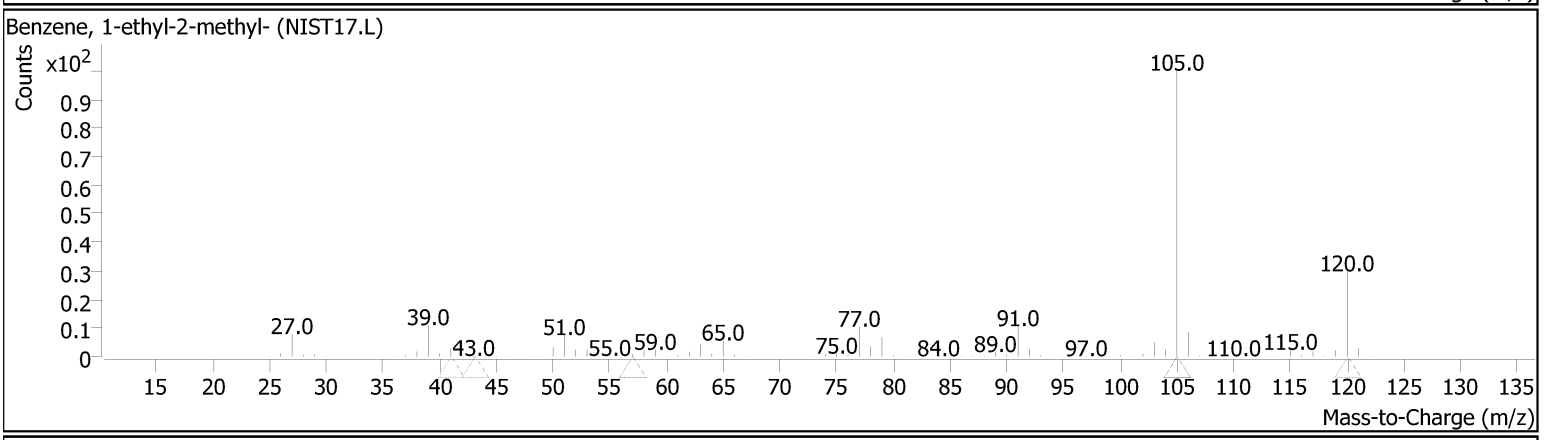



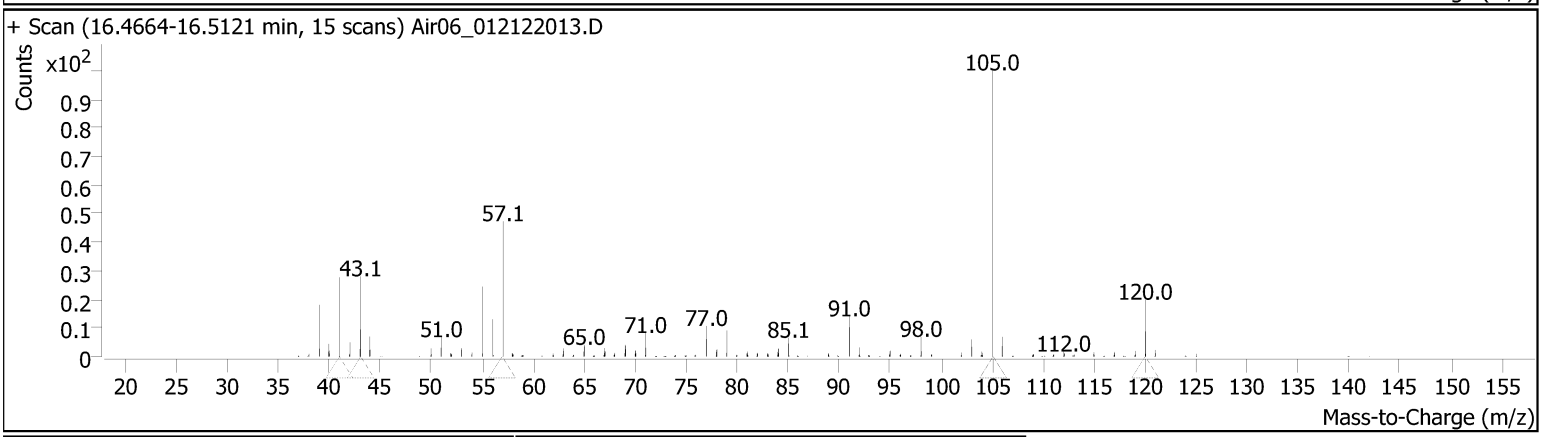



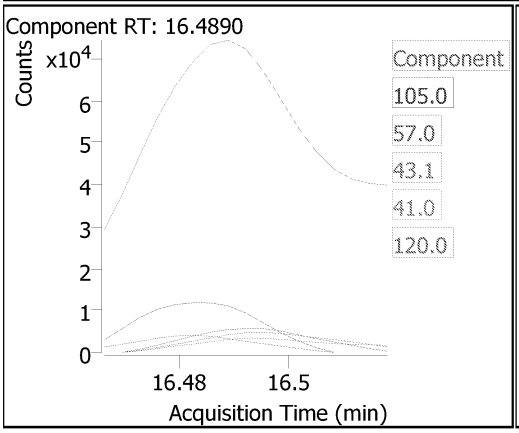



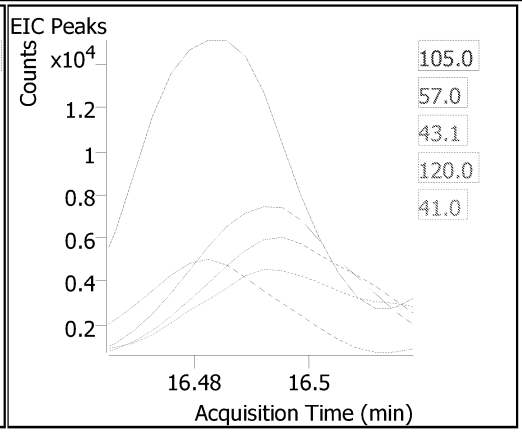
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.4890 | Benzene, 1-ethyl-2-methyl- | 83875.8 | 75.7 | 611-14-3 | C9H12 | 0.1755 |

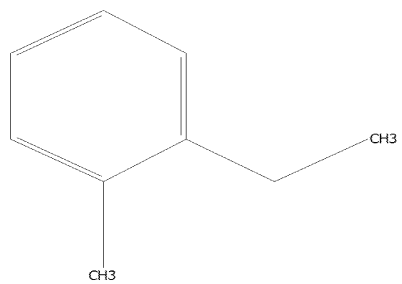


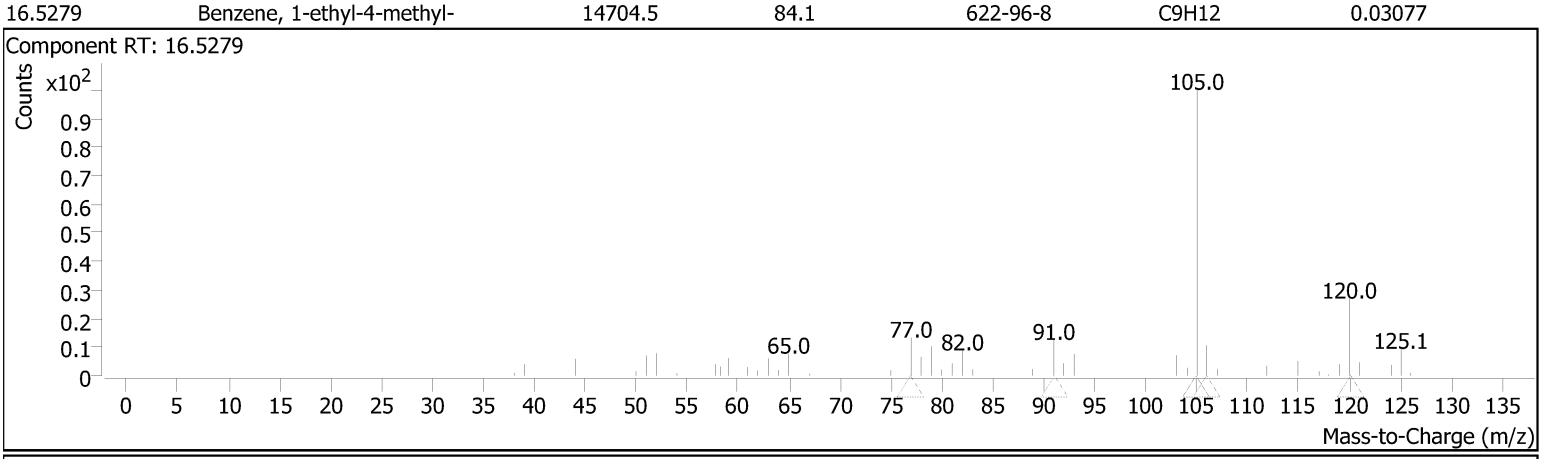



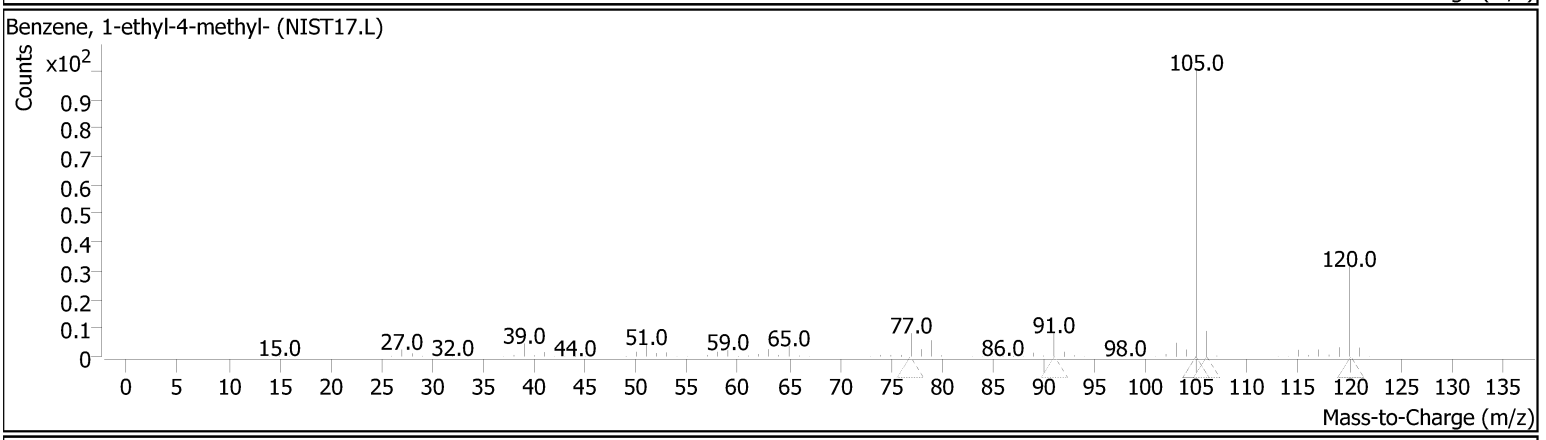



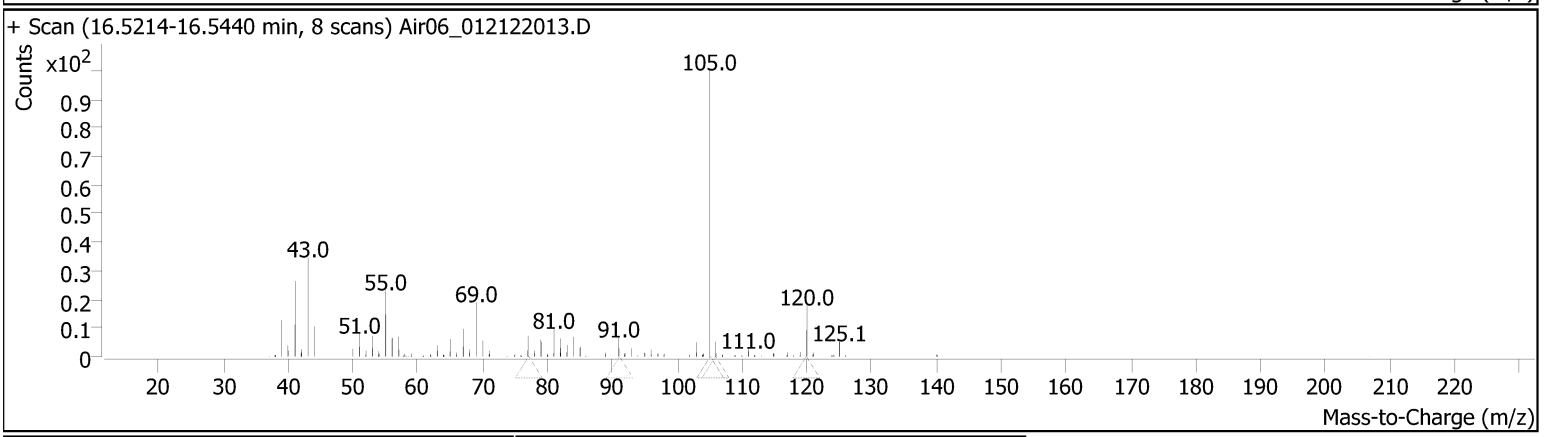



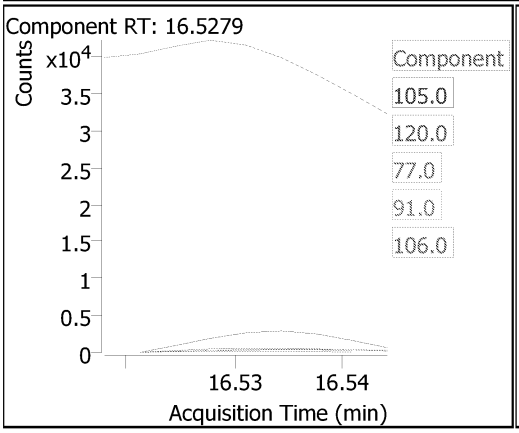



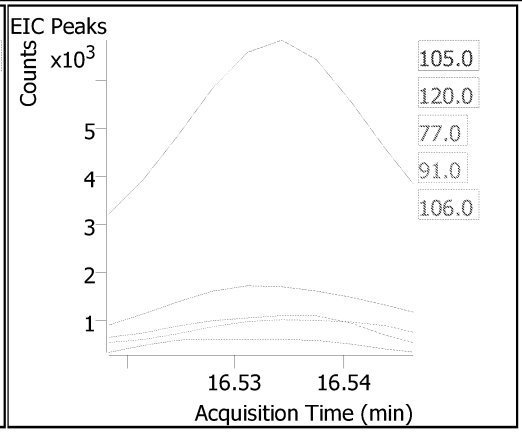
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.5279 | Benzene, 1-ethyl-4-methyl- | 14704.5 | 84.1 | 622-96-8 | C9H12 | 0.03077 |

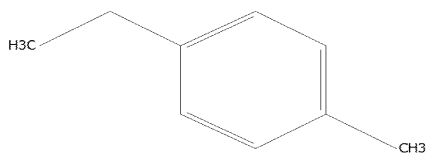


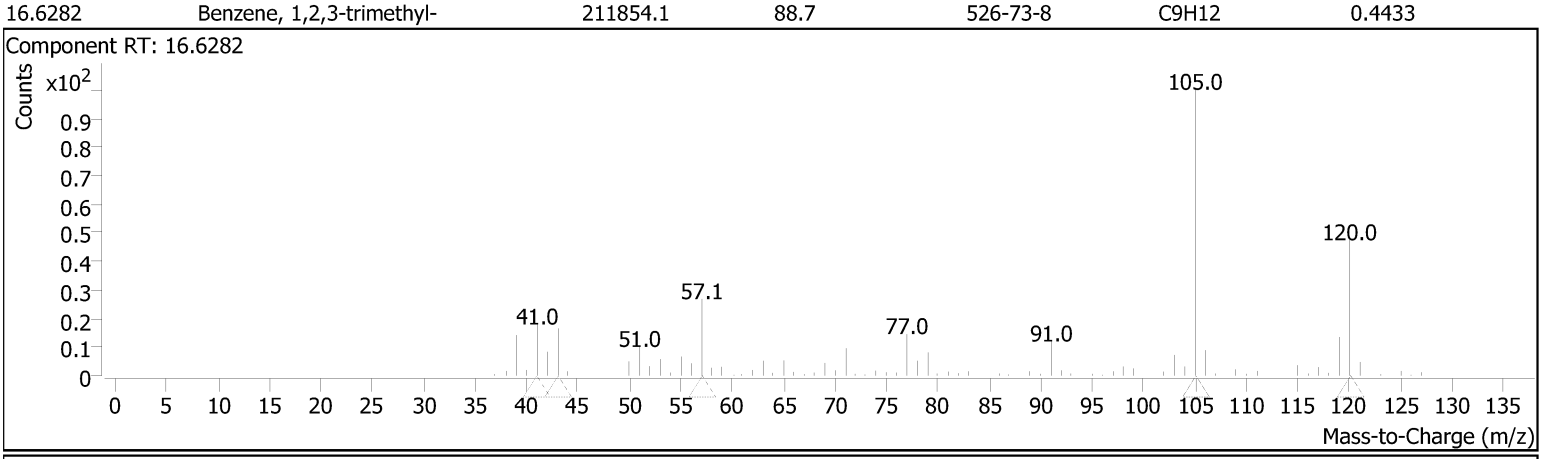



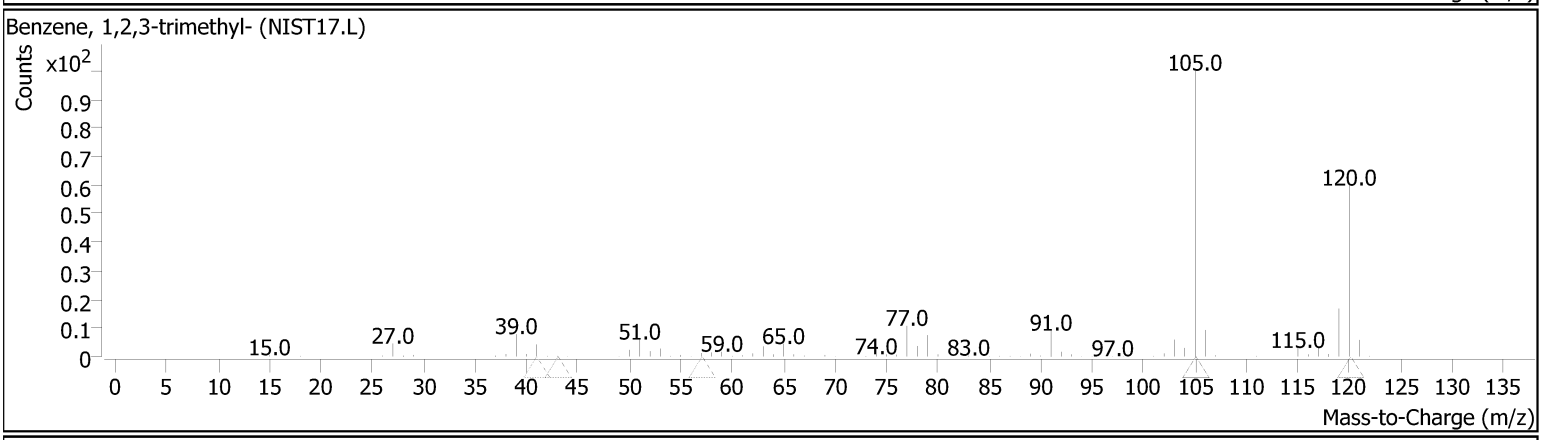



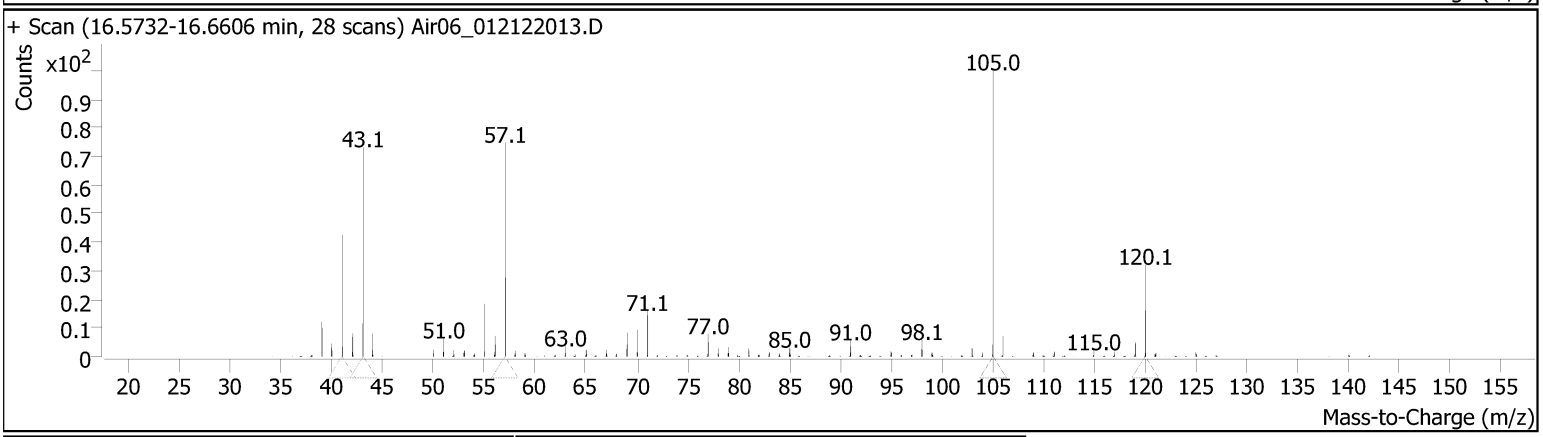



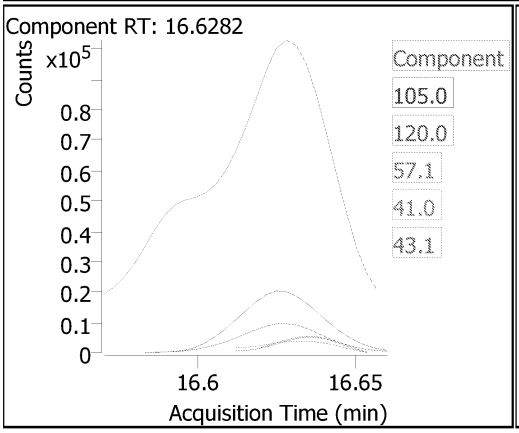



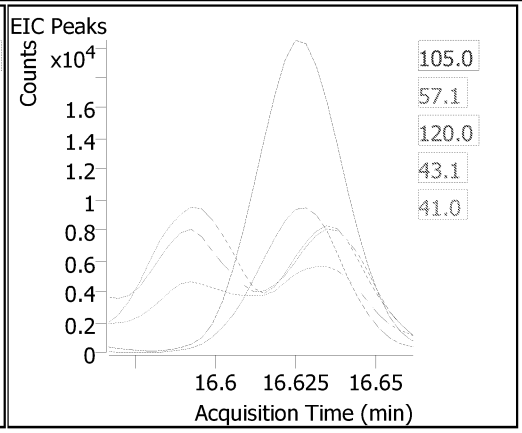
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.6282 | Benzene, 1,2,3-trimethyl- | 211854.1 | 88.7 | 526-73-8 | C9H12 | 0.4433 |

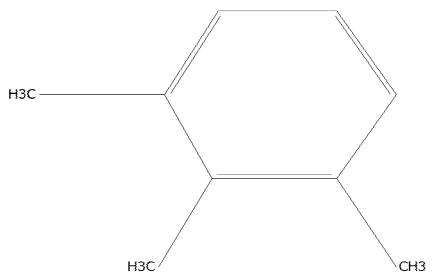


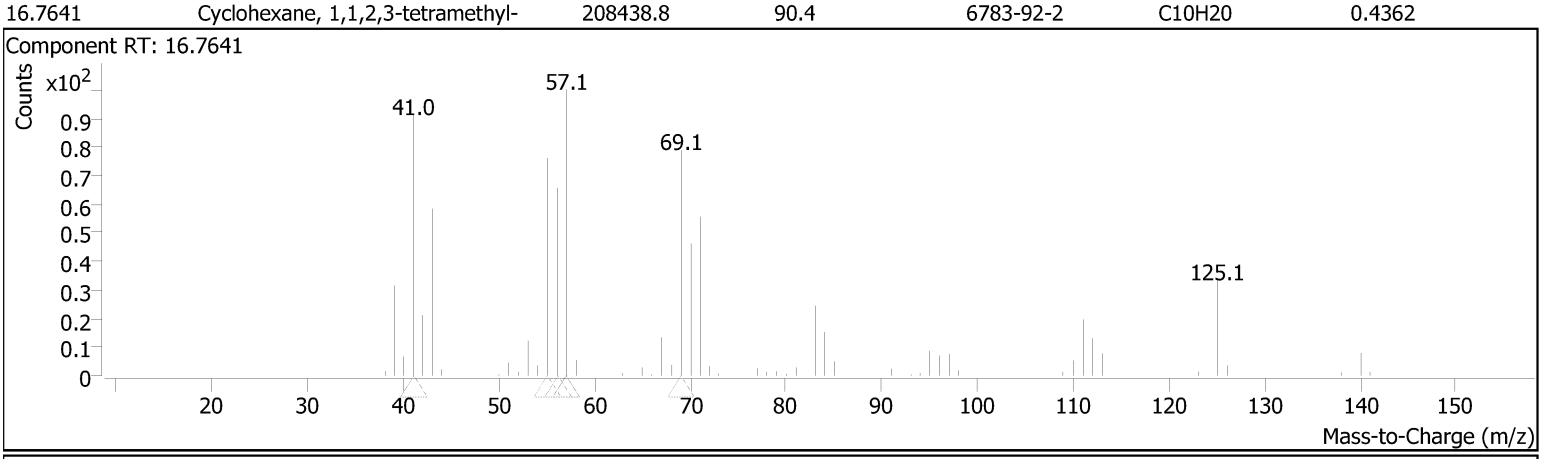



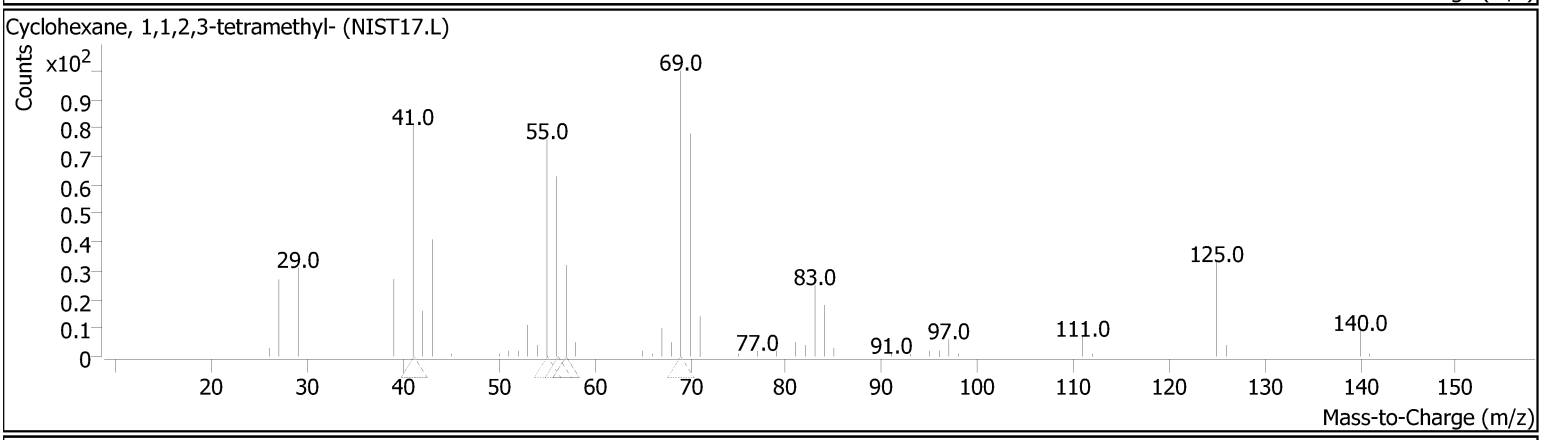



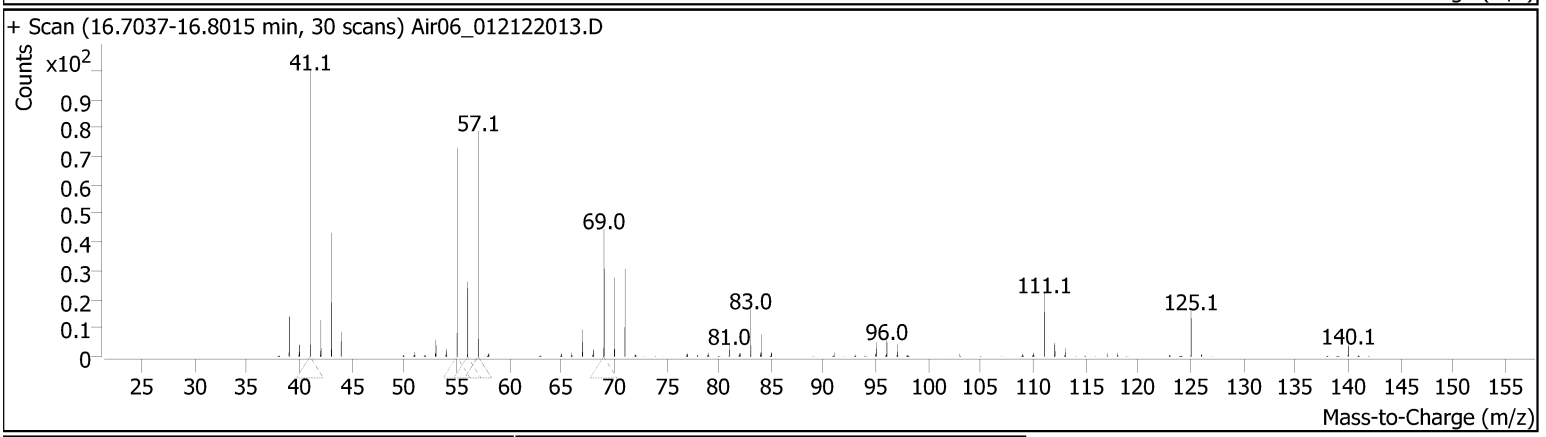



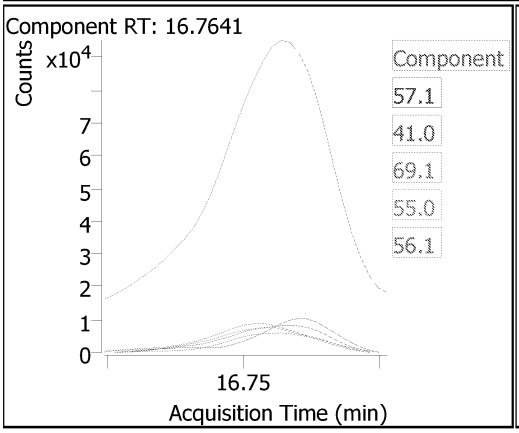



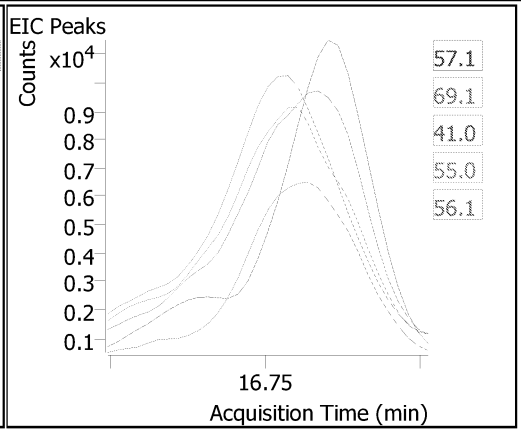
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.7641 | Cyclohexane, 1,1,2,3-tetramethyl- | 208438.8 | 90.4 | 6783-92-2 | C10H20 | 0.4362 |

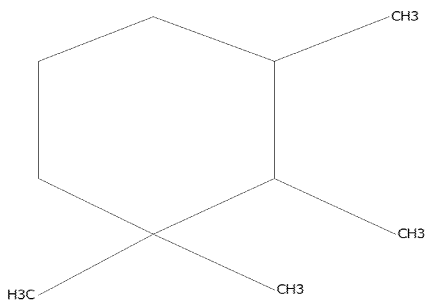


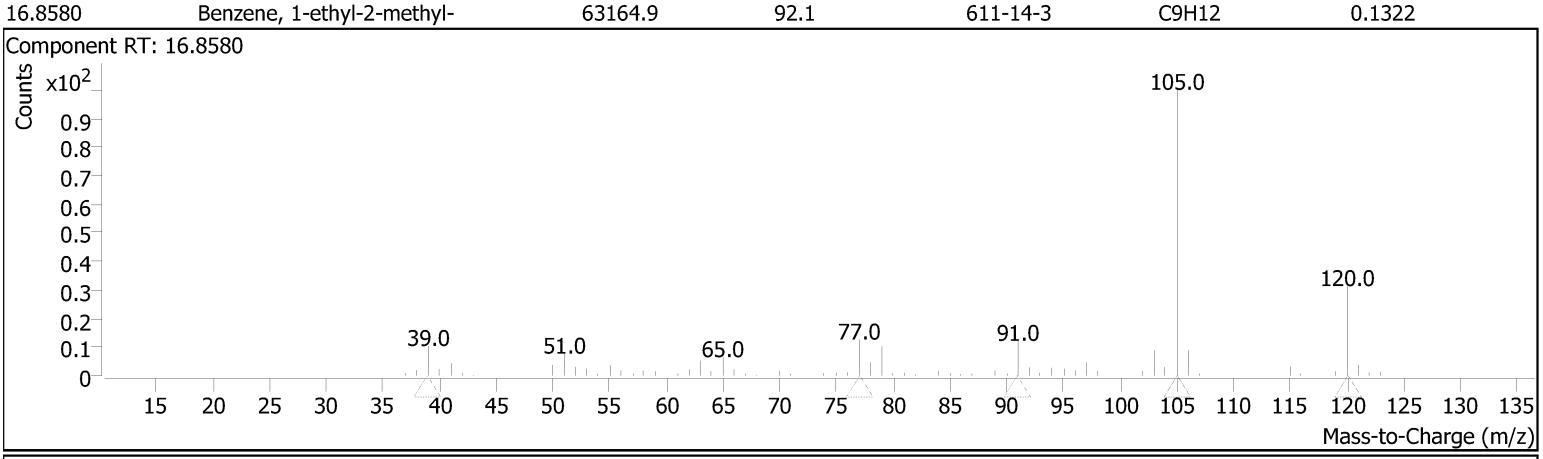



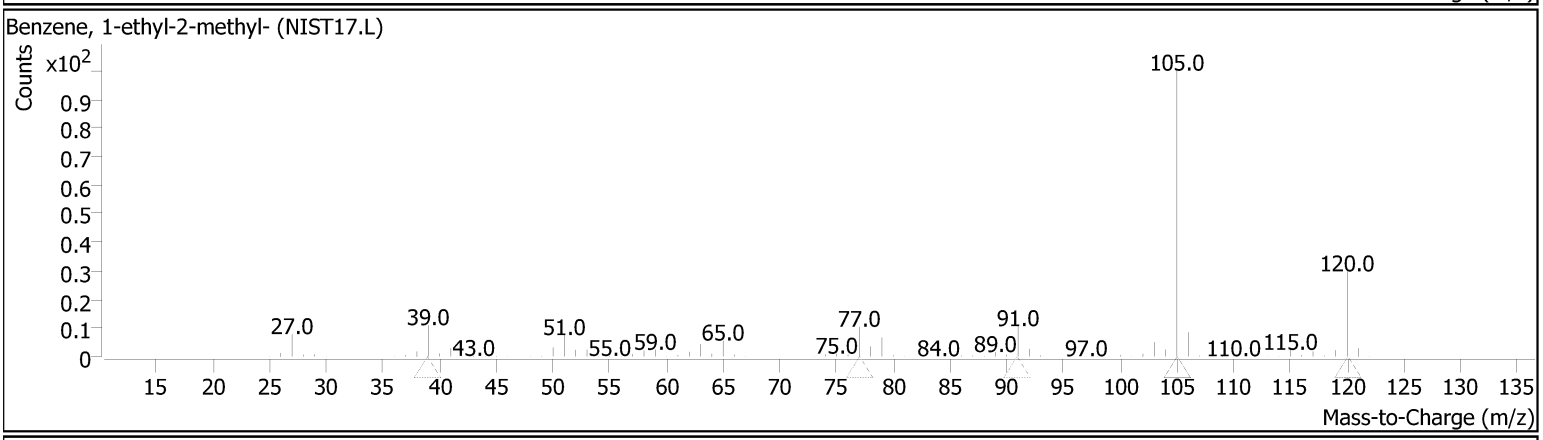



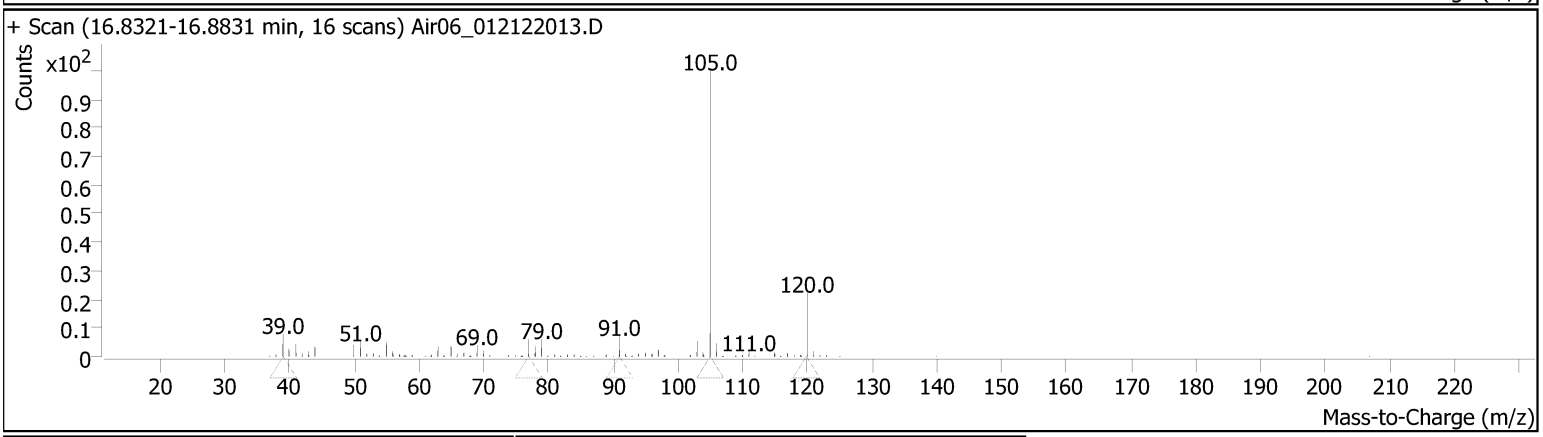



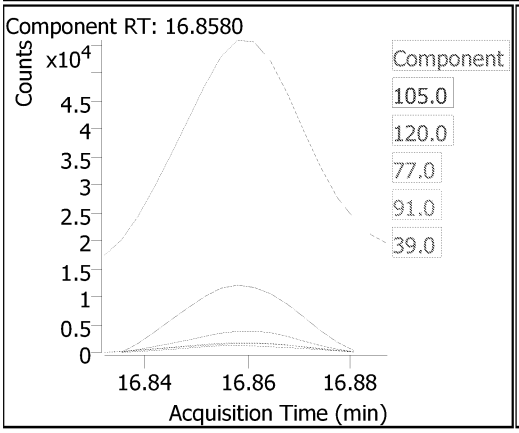



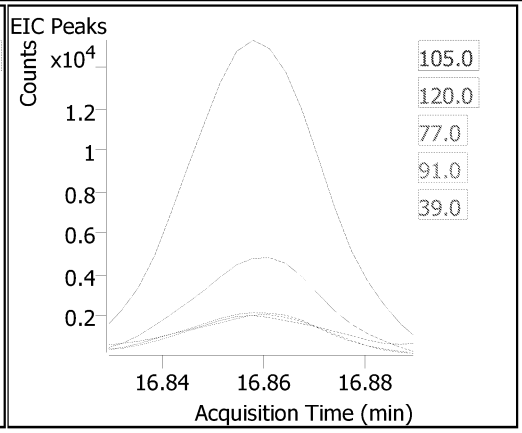
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.8580 | Benzene, 1-ethyl-2-methyl- | 63164.9 | 92.1 | 611-14-3 | C9H12 | 0.1322 |

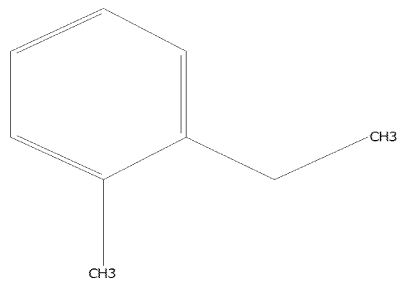


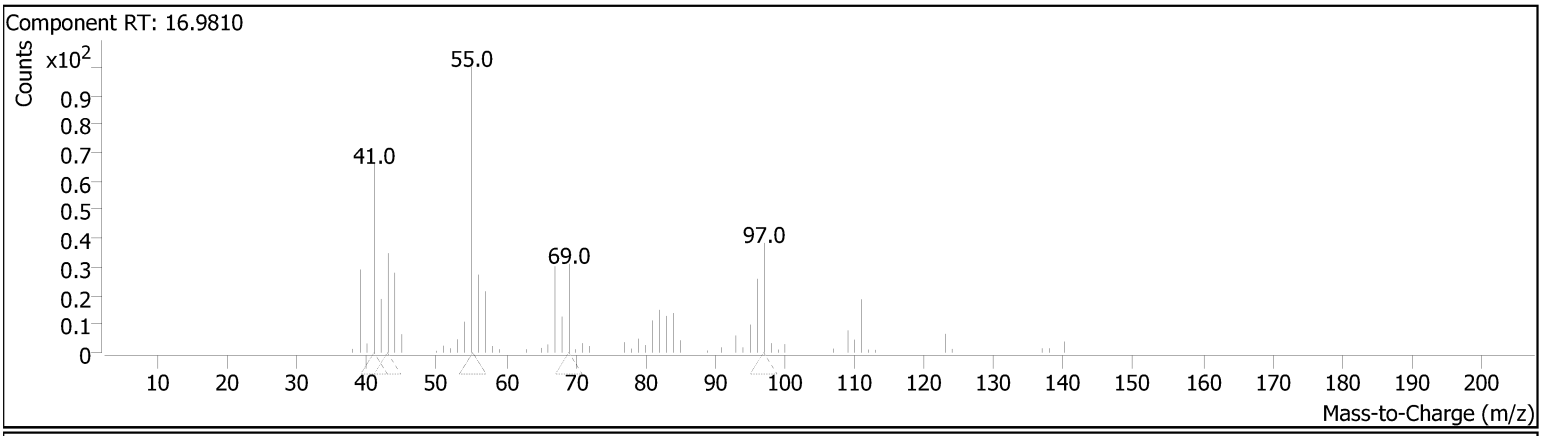



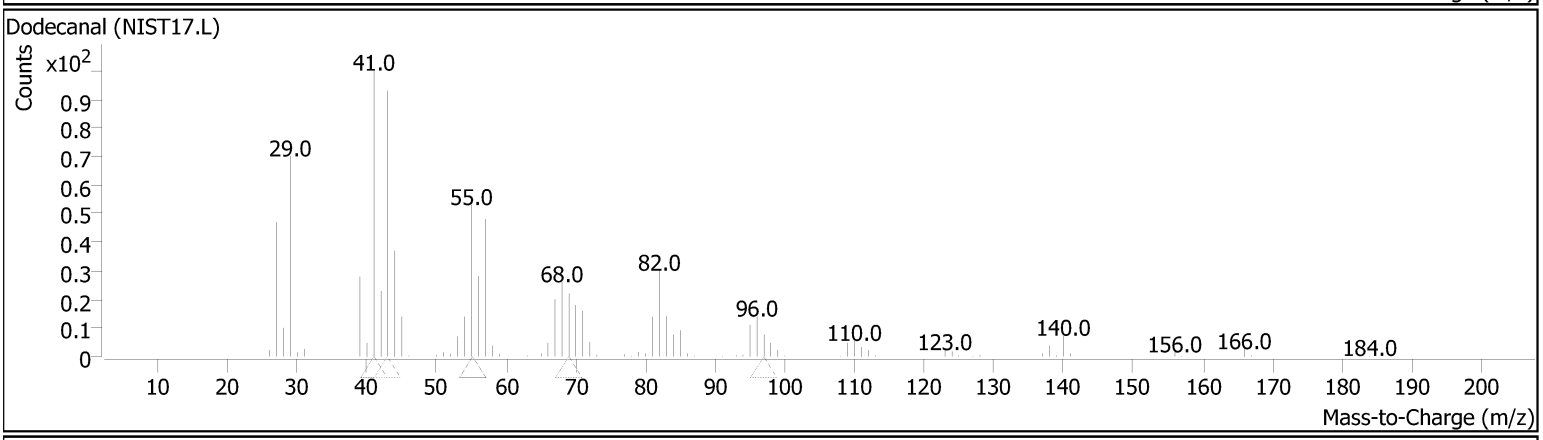



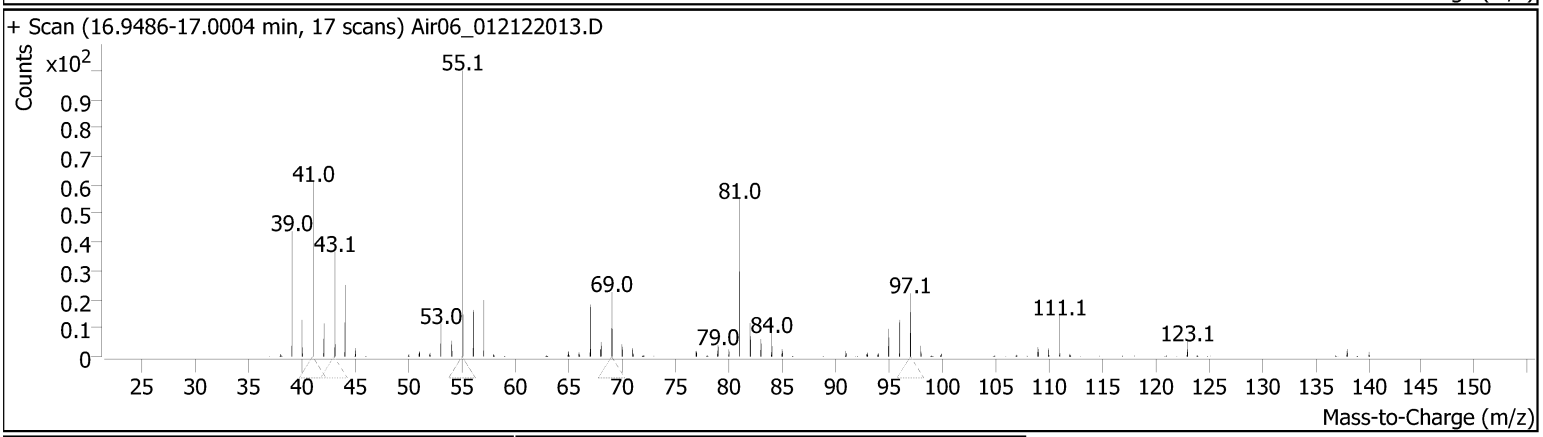



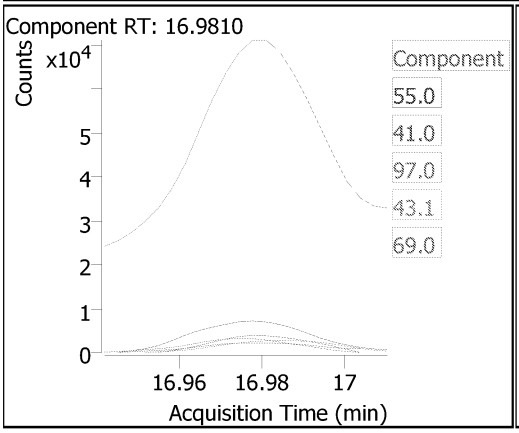



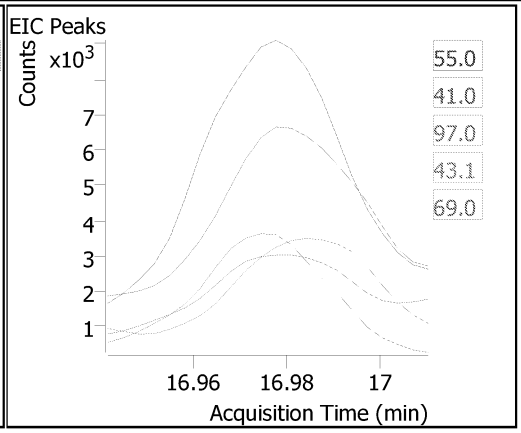
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.9810 | Dodecanal | 91327.0 | 85.7 | 112-54-9 | C12H24O | 0.1911 |

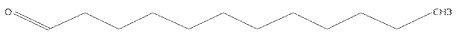


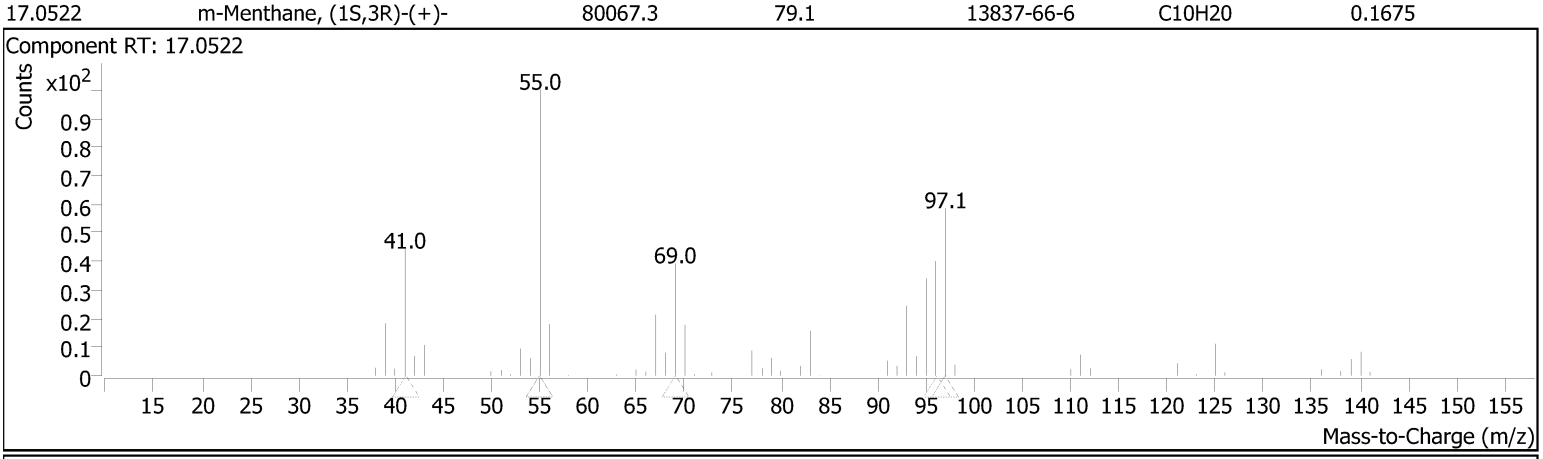



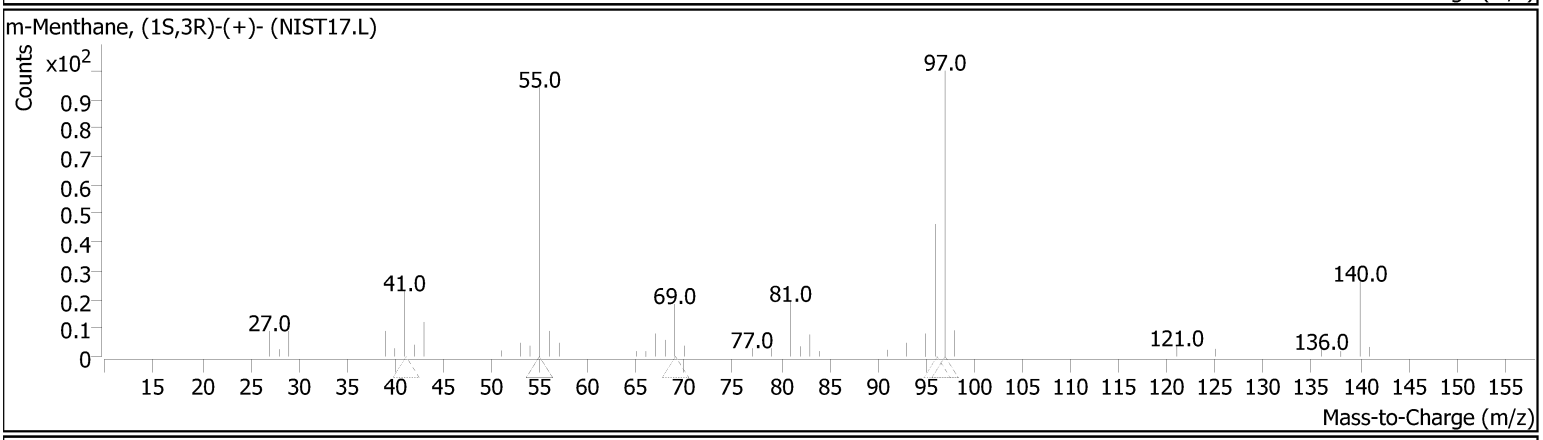



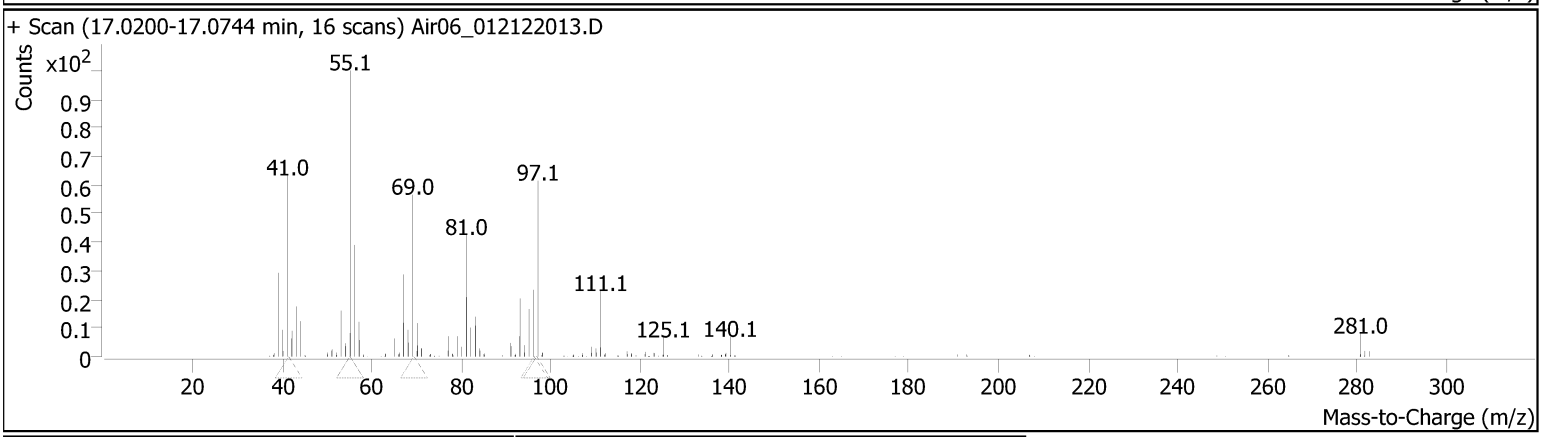



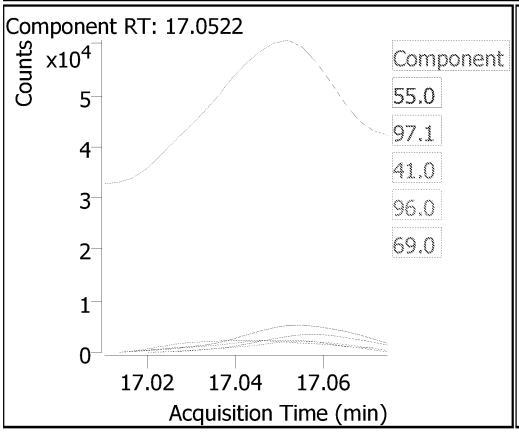



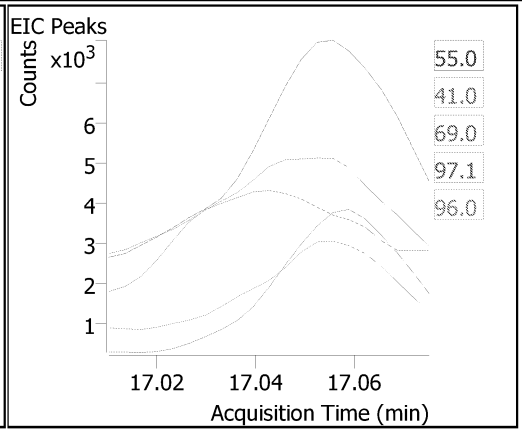
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.0522 | m-Menthane, (1S,3R)-(+)- | 80067.3 | 79.1 | 13837-66-6 | C10H20 | 0.1675 |

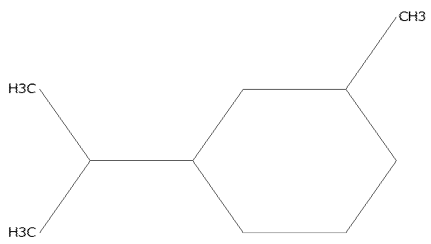


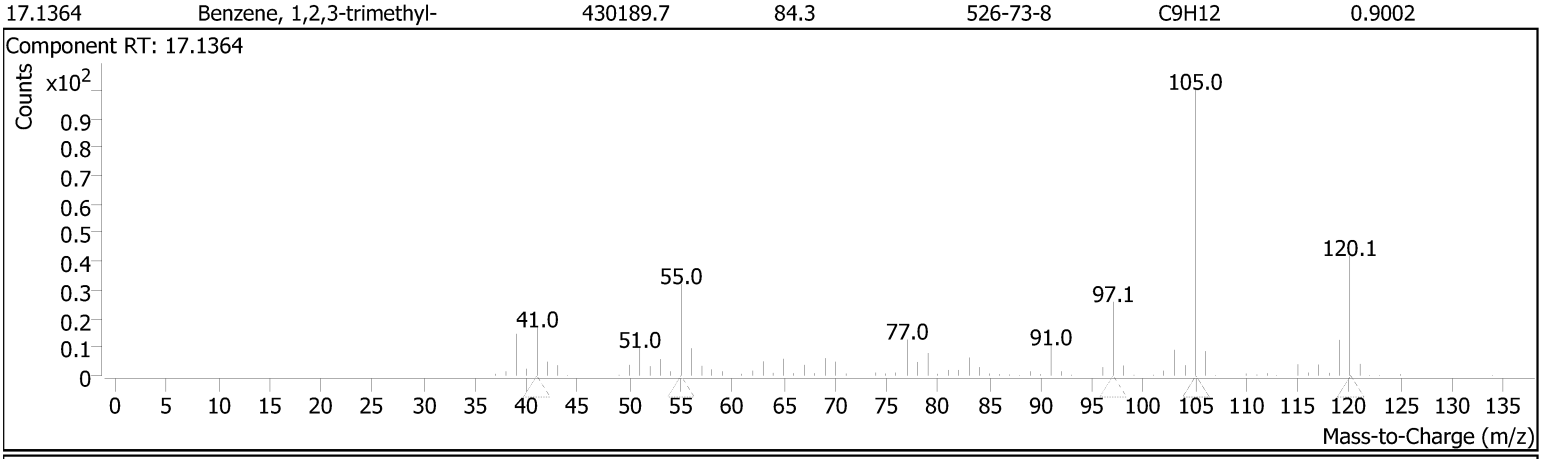



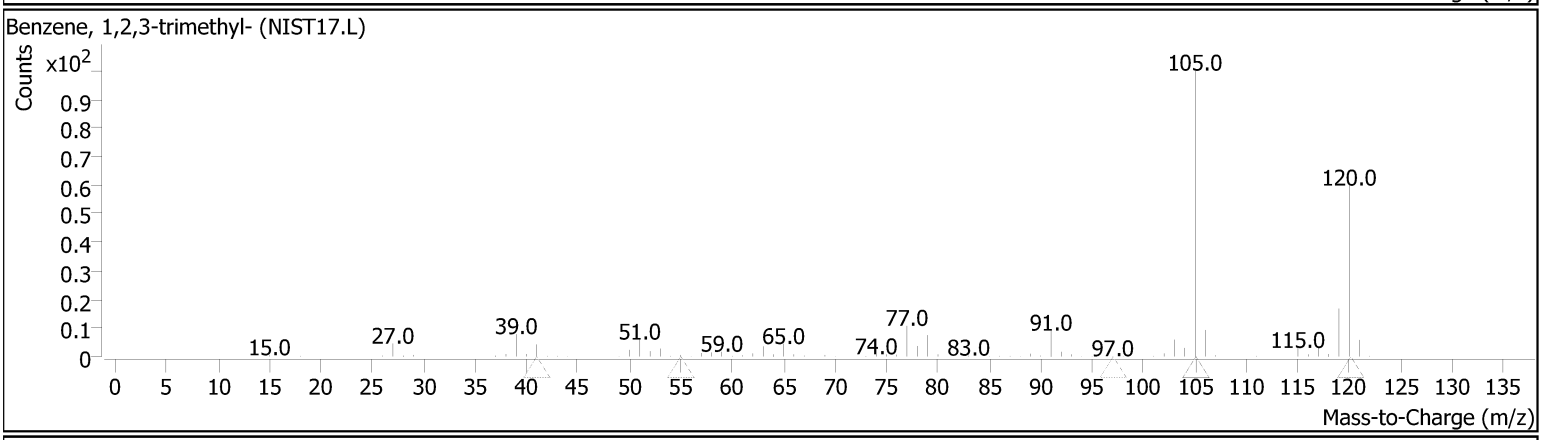



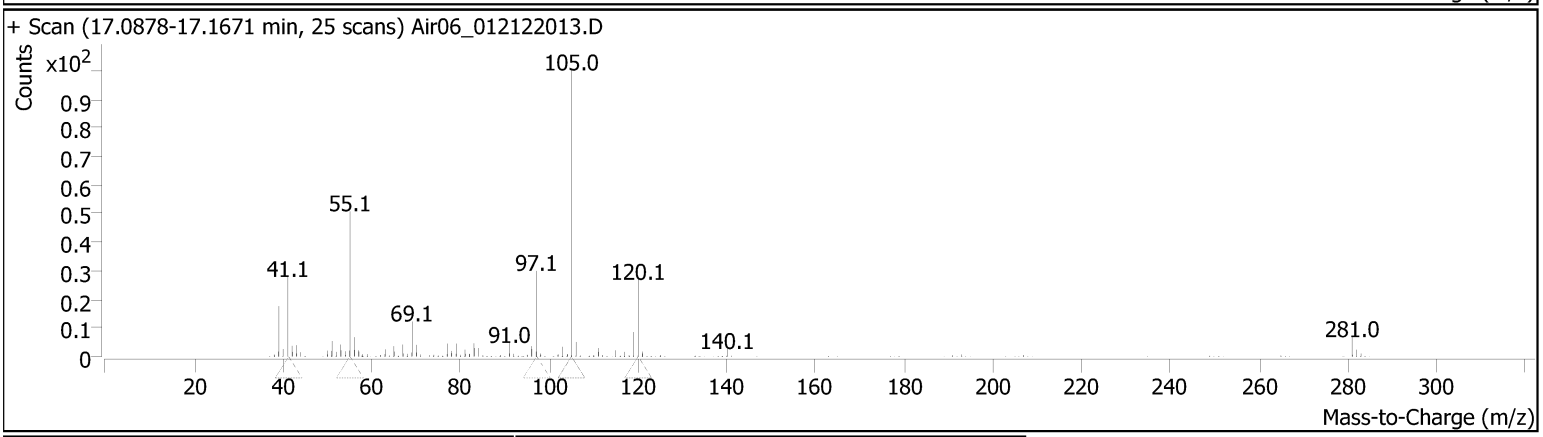



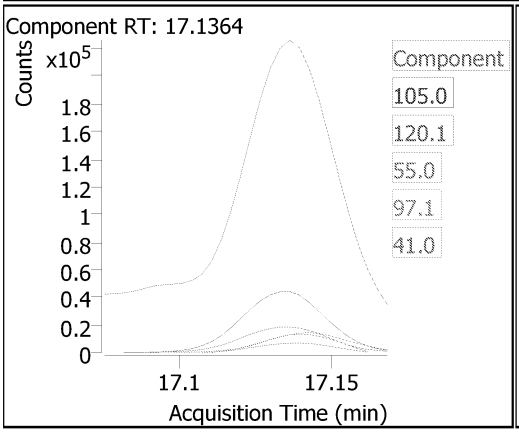



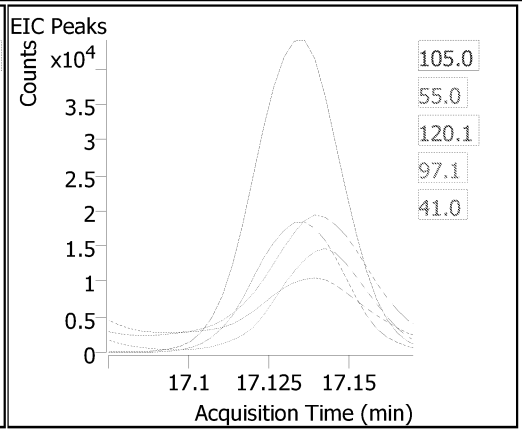
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.1364 | Benzene, 1,2,3-trimethyl- | 430189.7 | 84.3 | 526-73-8 | C9H12 | 0.9002 |

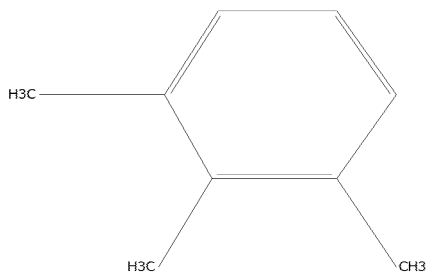


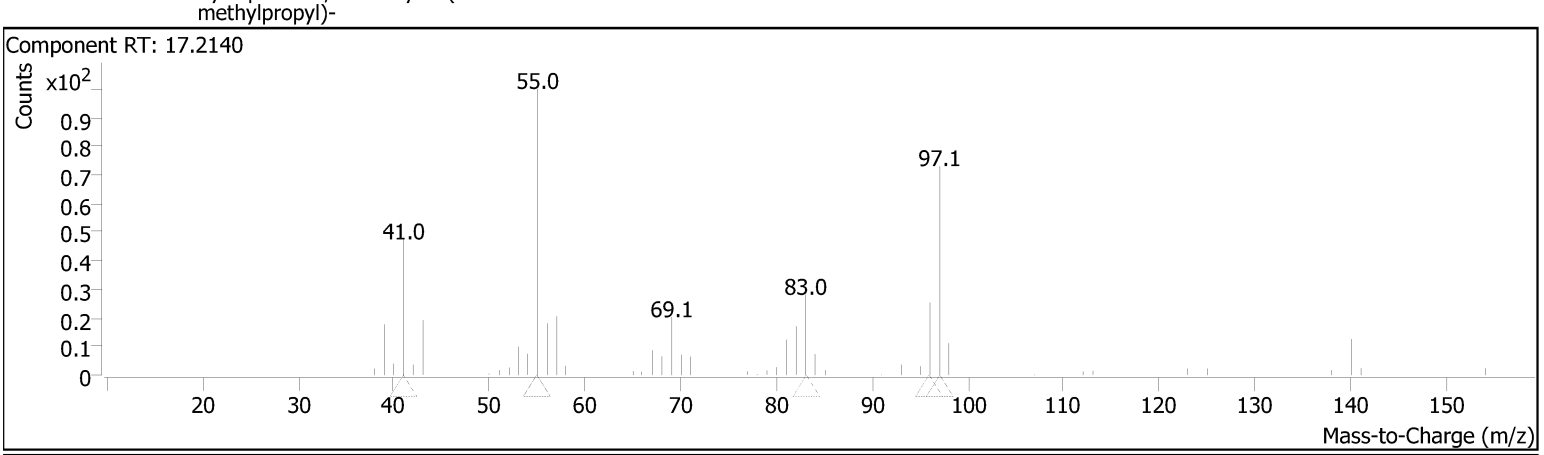



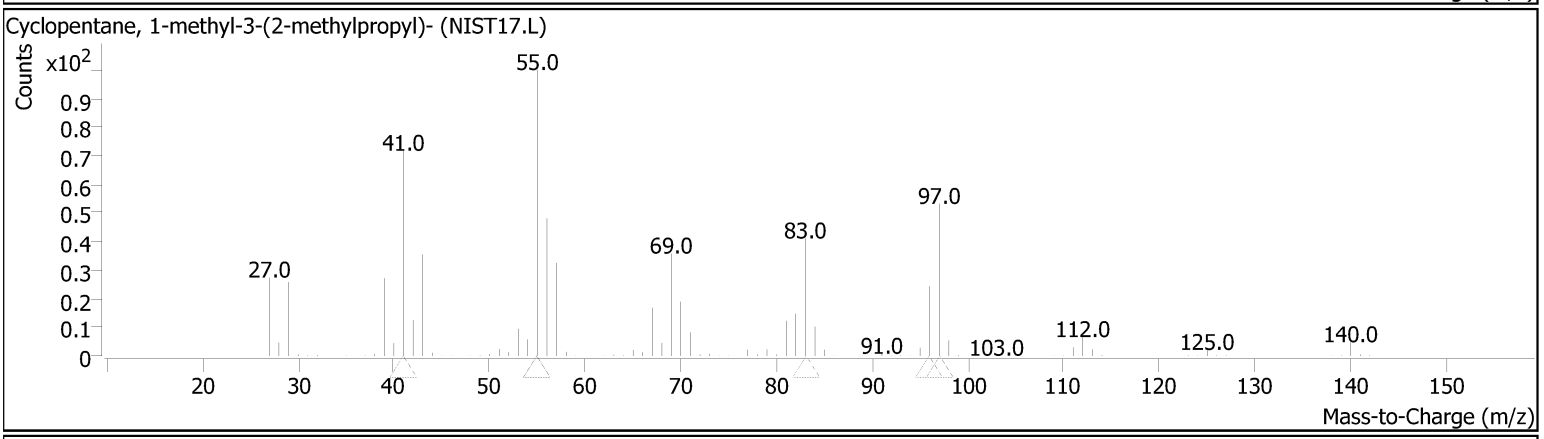



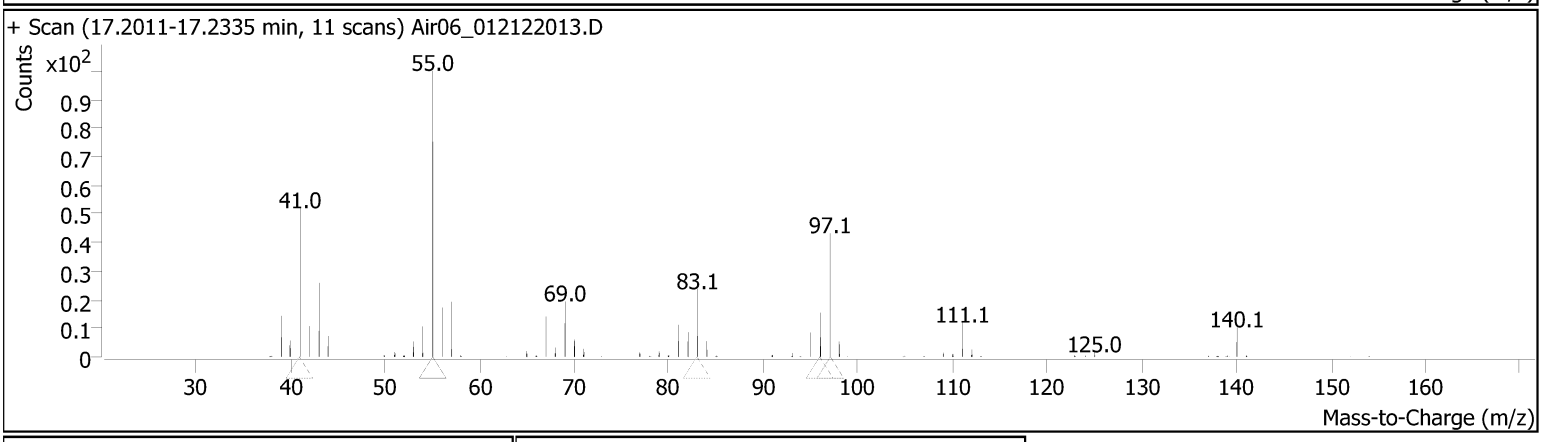



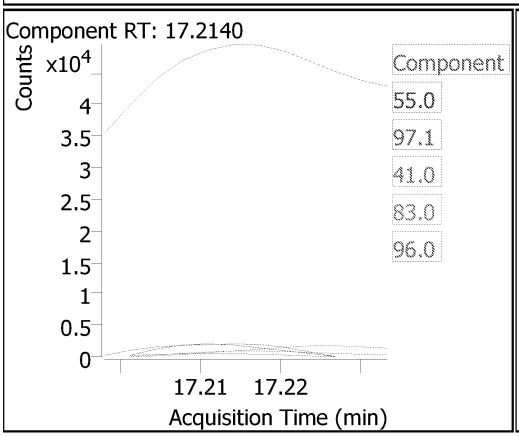



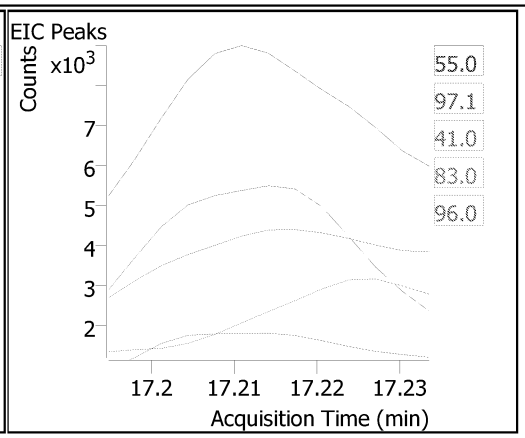
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.2140 | Cyclopentane, 1-methyl-3-(2-methylpropyl)- | 28403.9 | 91.6 | 29053-04-1 | C10H20 | 0.05944 |

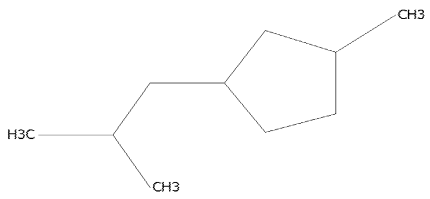


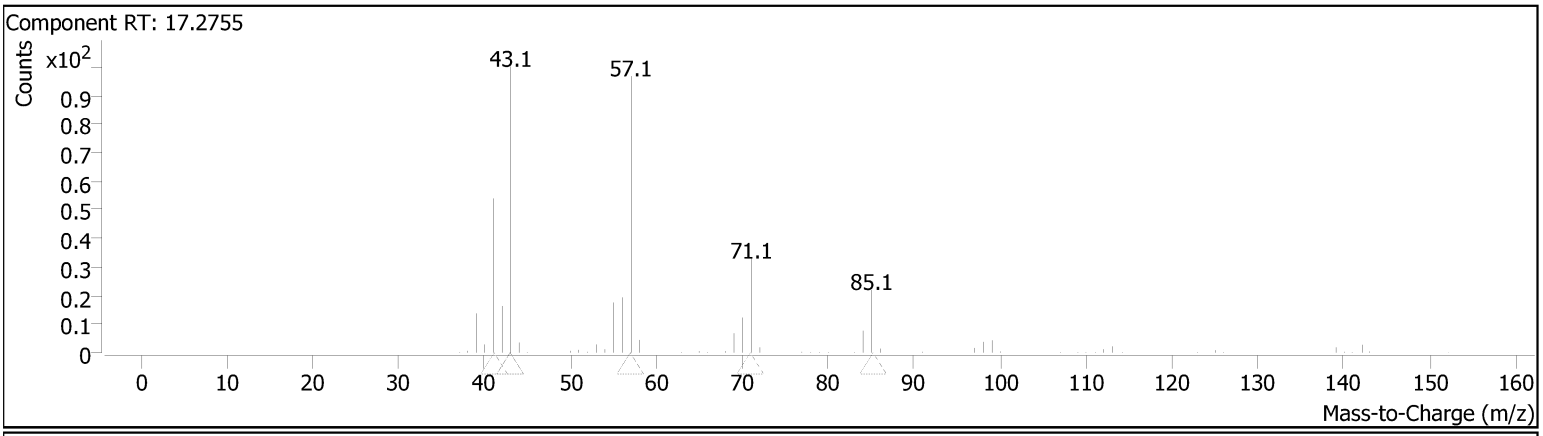



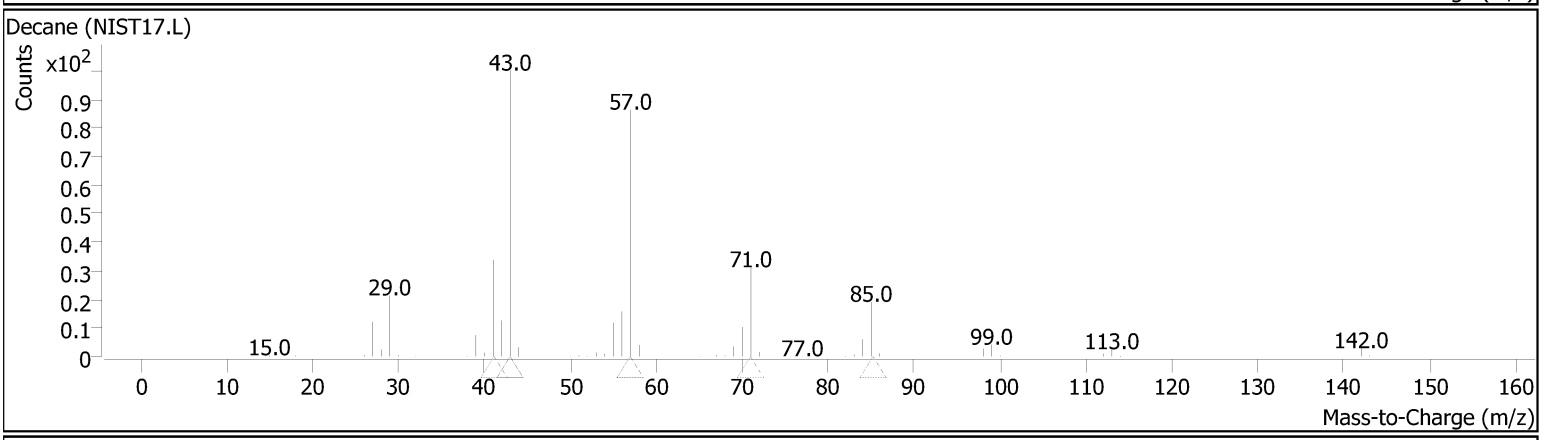



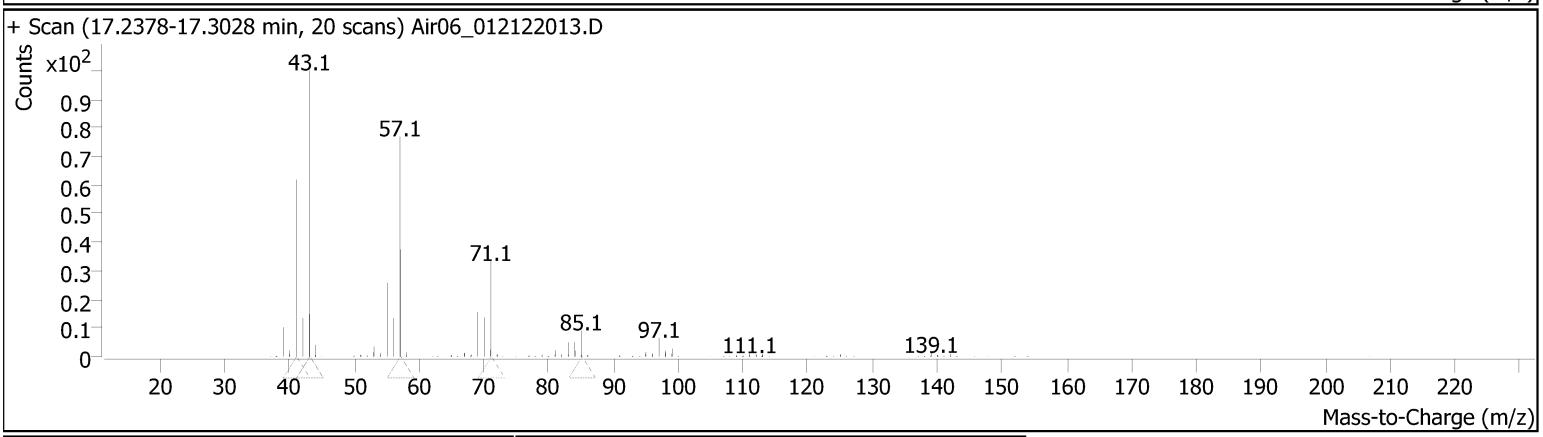



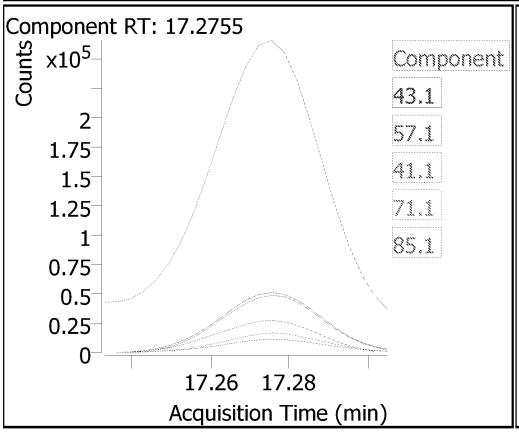



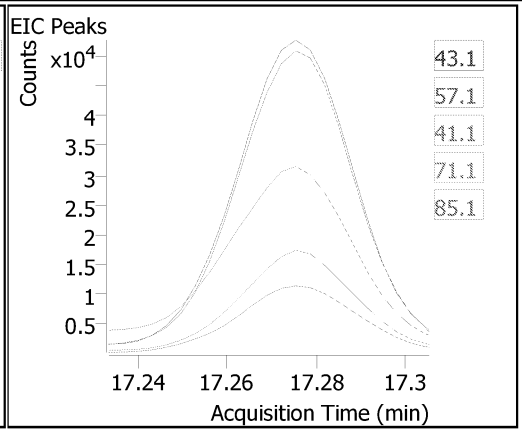
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.2755 | Decane | 445409.6 | 96.8 | 124-18-5 | C10H22 | 0.932 |



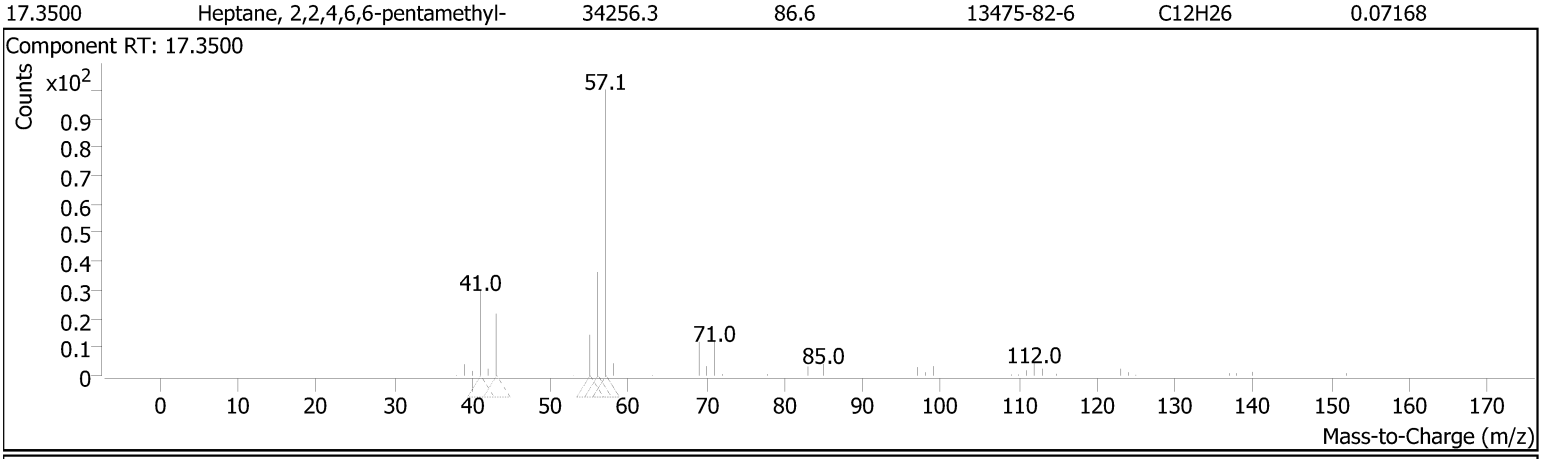



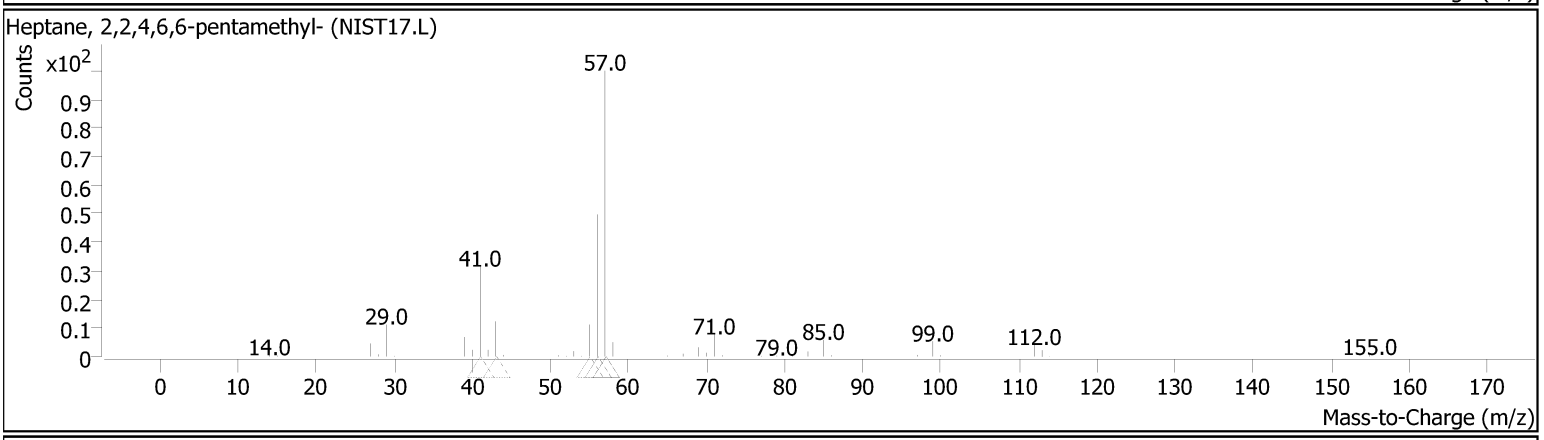



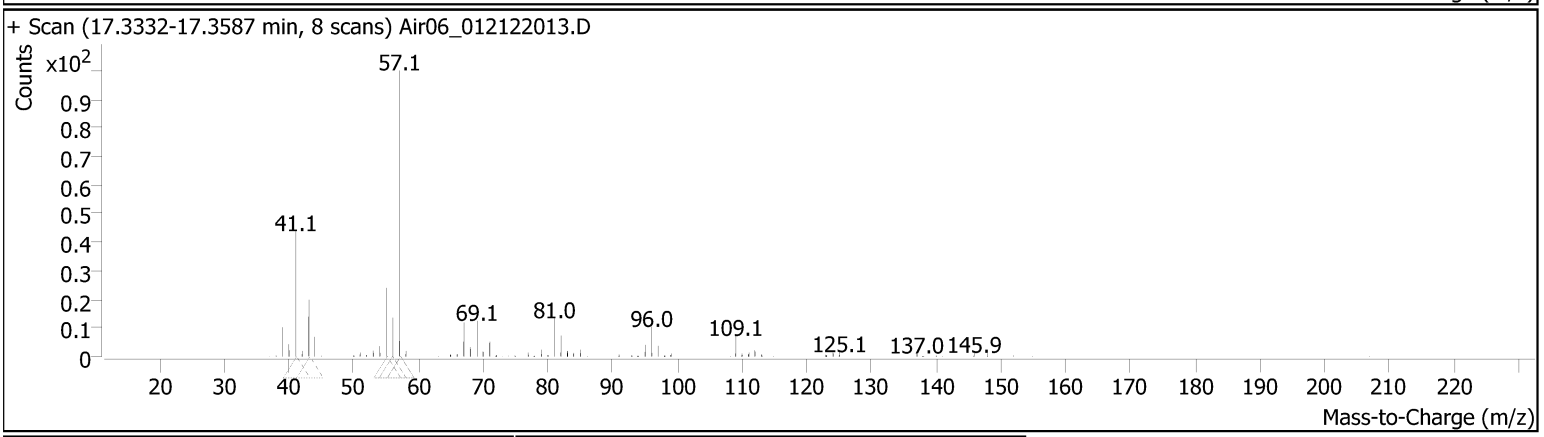



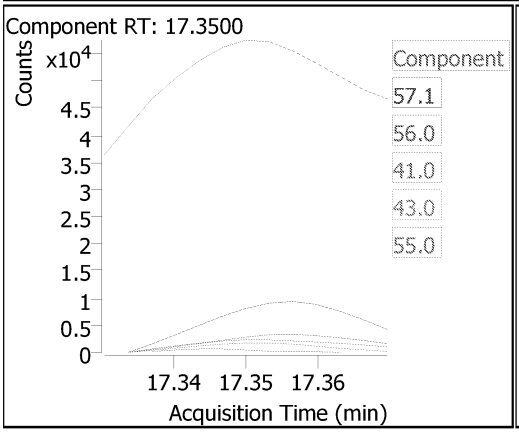


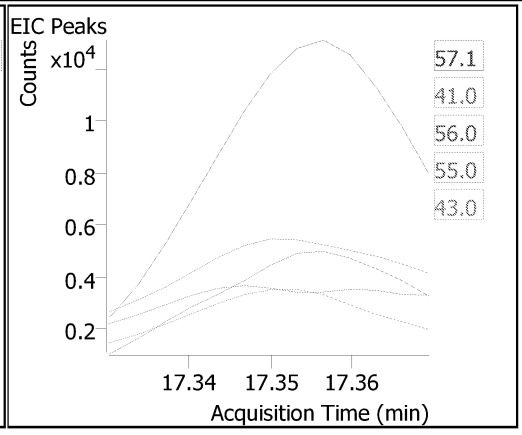

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.3500 | Heptane, 2,2,4,6,6-pentamethyl- | 34256.3 | 86.6 | 13475-82-6 | C12H26 | 0.07168 |

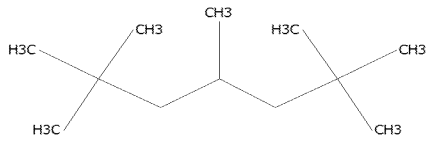


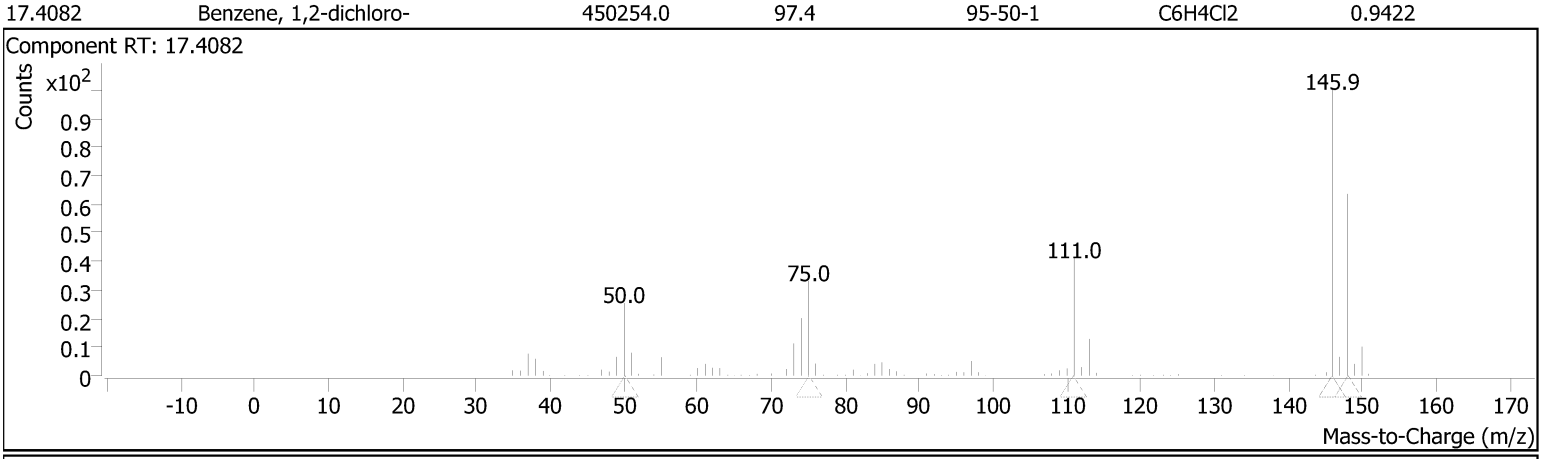



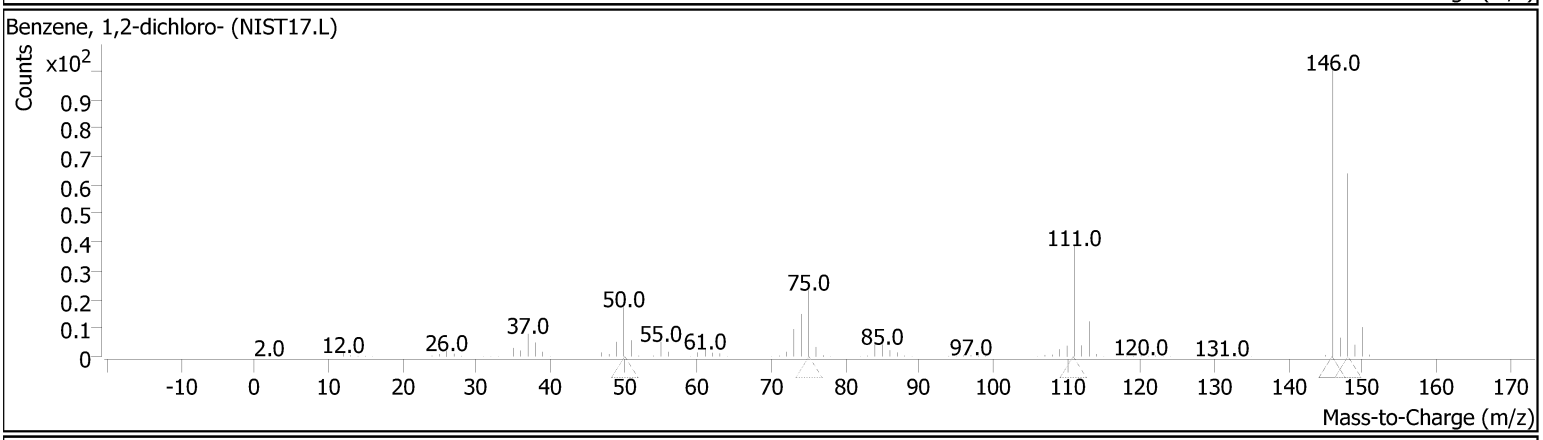



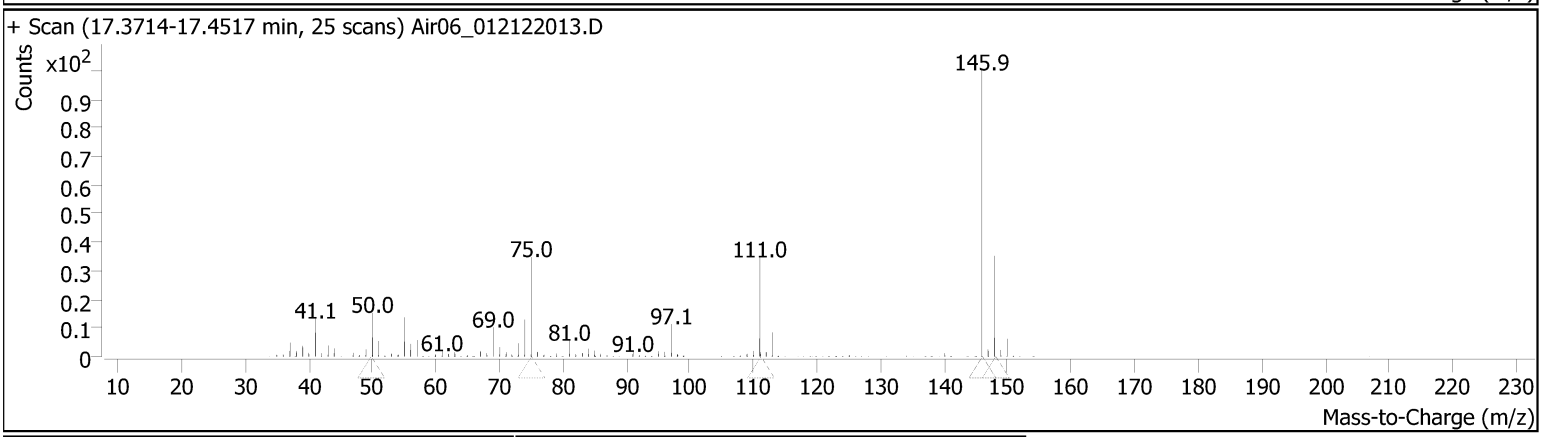



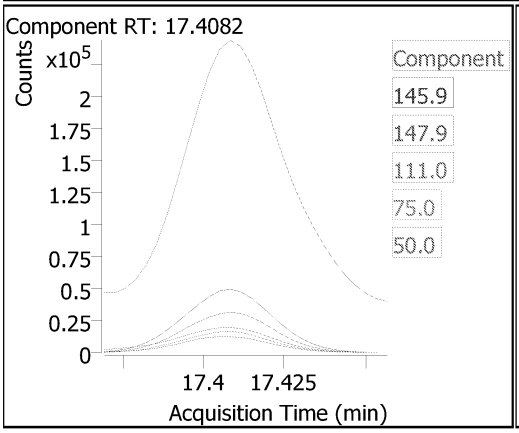



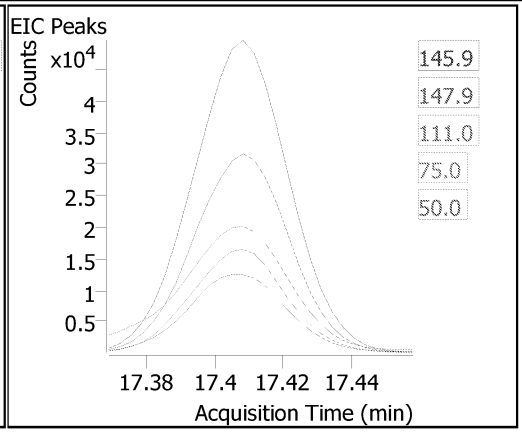
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4082 | Benzene, 1,2-dichloro- | 450254.0 | 97.4 | 95-50-1 | C6H4Cl2 | 0.9422 |

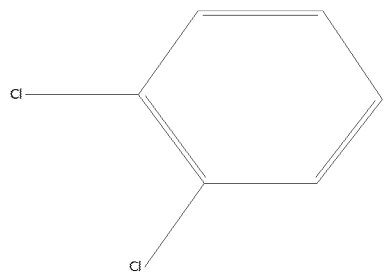


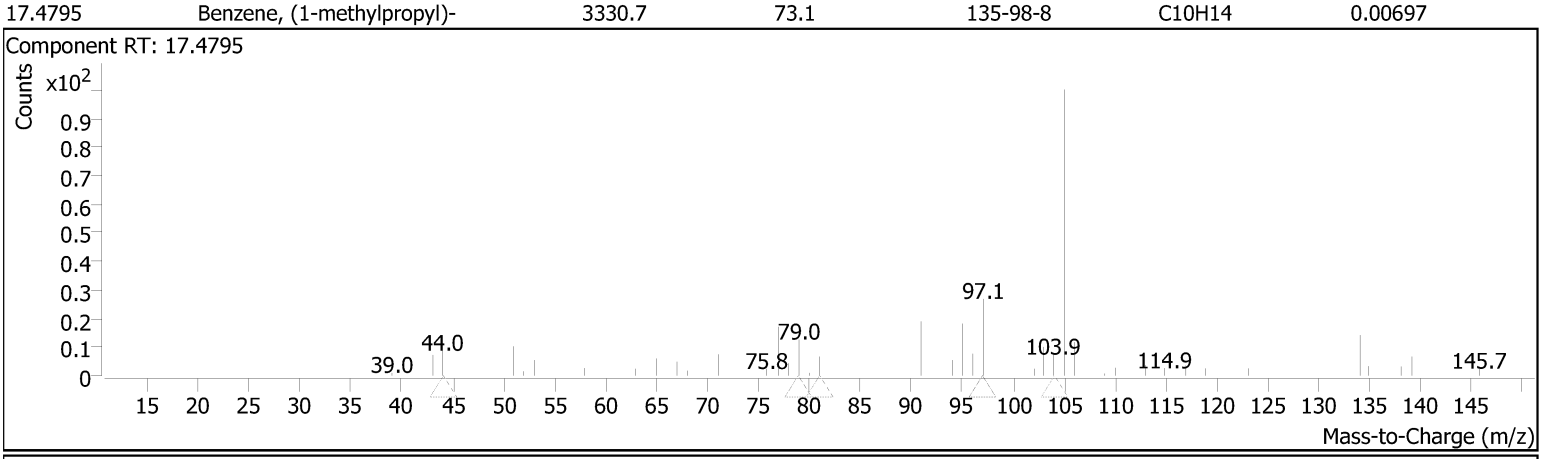



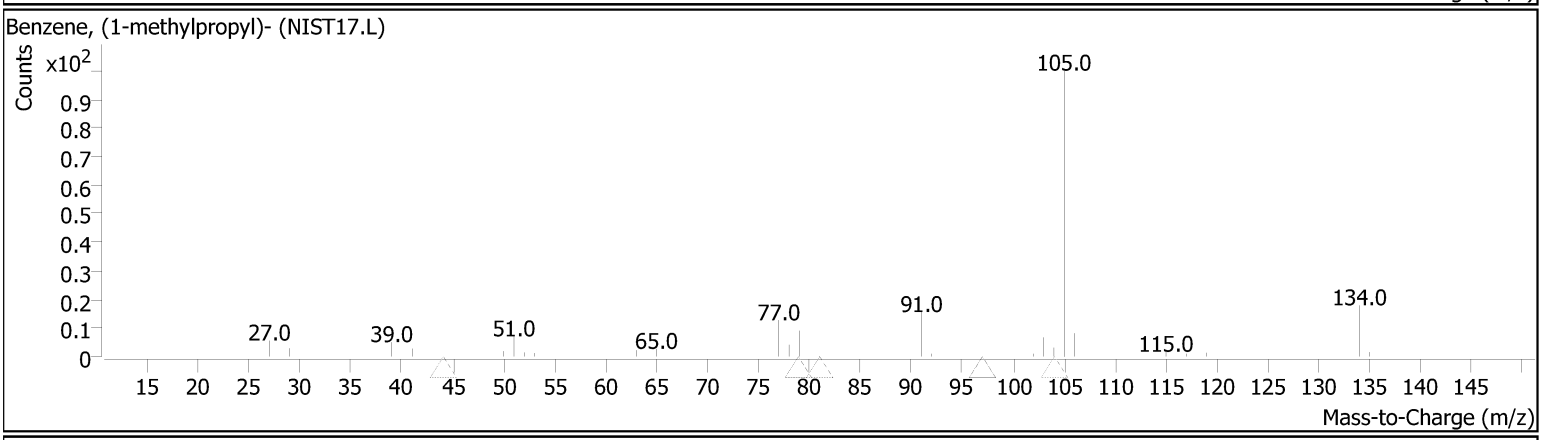



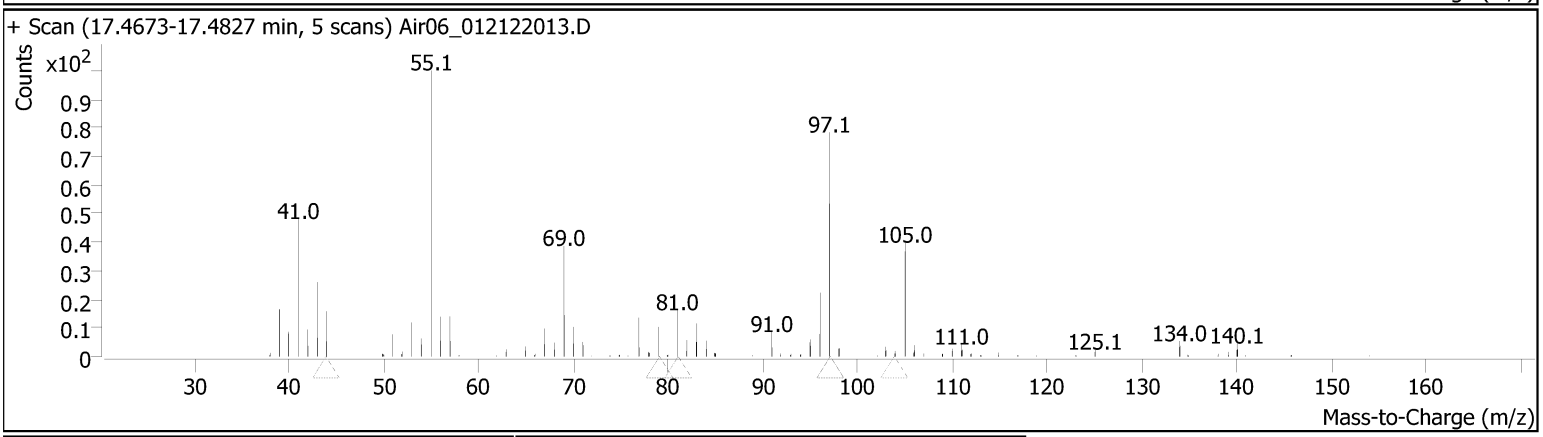



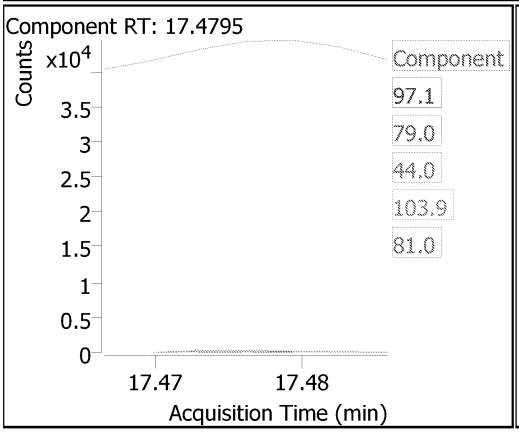



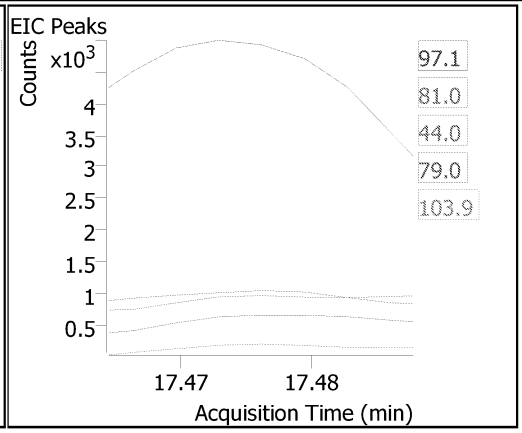
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4795 | Benzene, (1-methylpropyl)- | 3330.7 | 73.1 | 135-98-8 | C10H14 | 0.00697 |

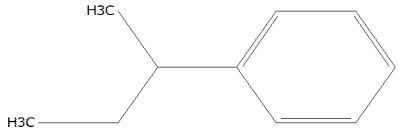


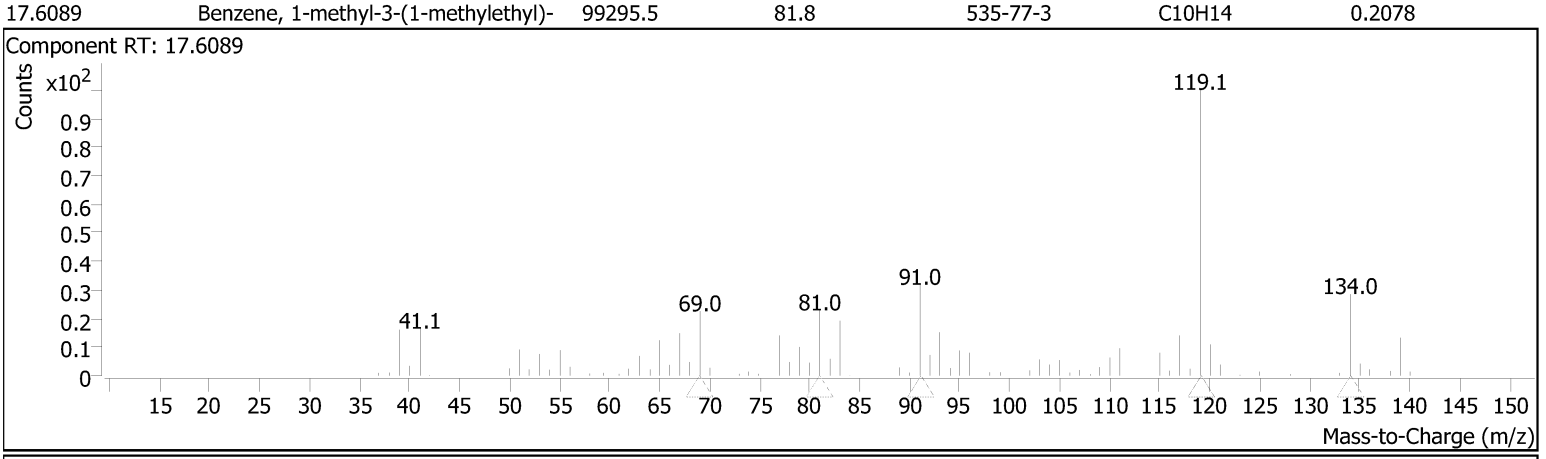



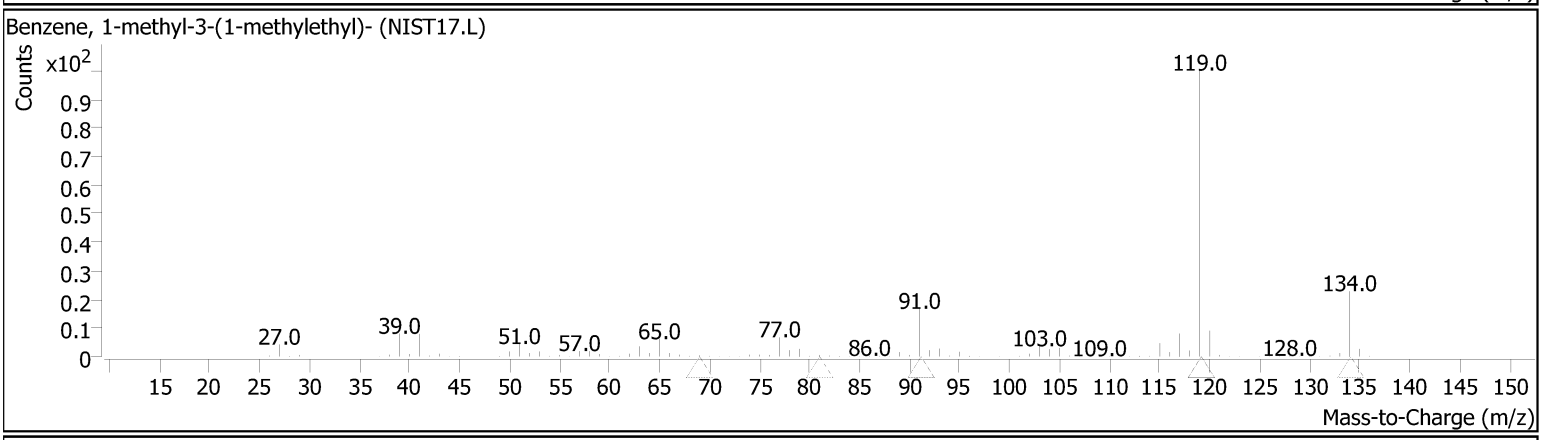



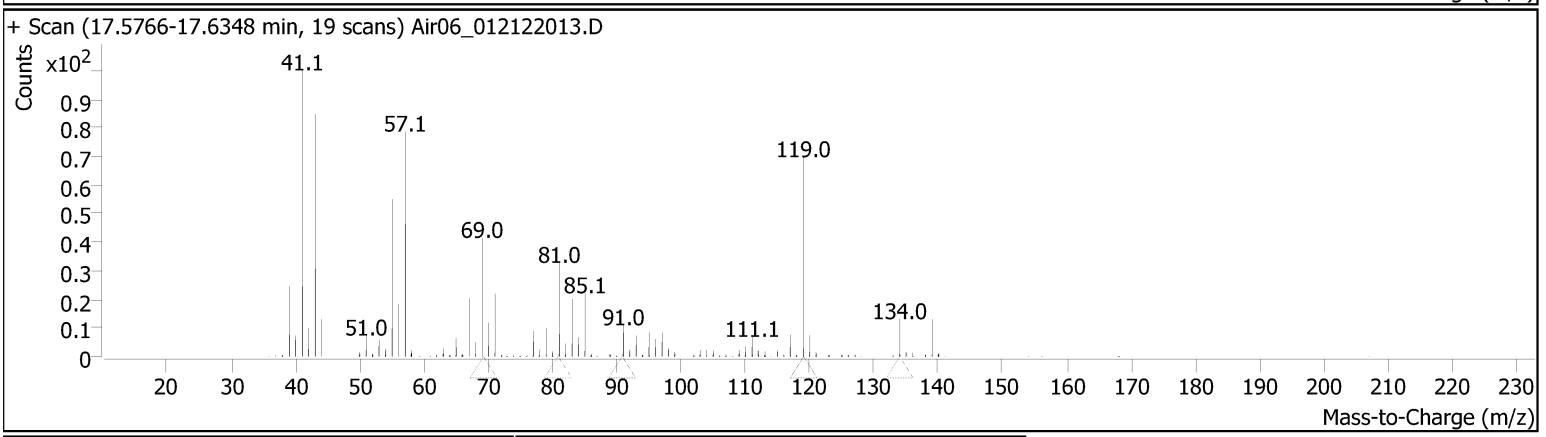



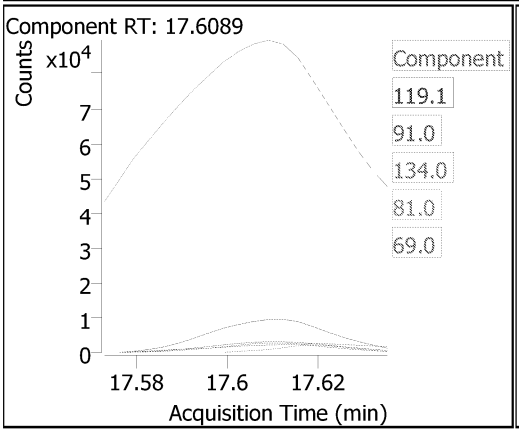



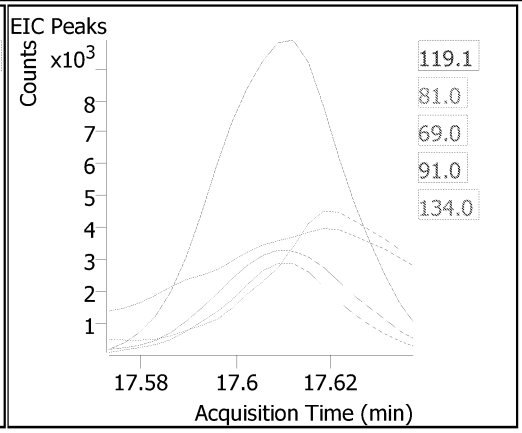
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6089 | Benzene, 1-methyl-3-(1-methylethyl)- | 99295.5 | 81.8 | 535-77-3 | C10H14 | 0.2078 |

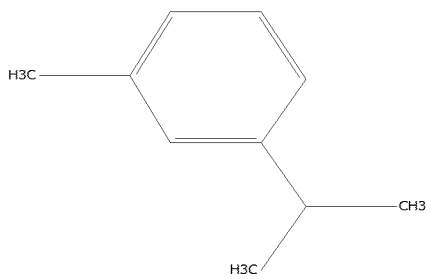


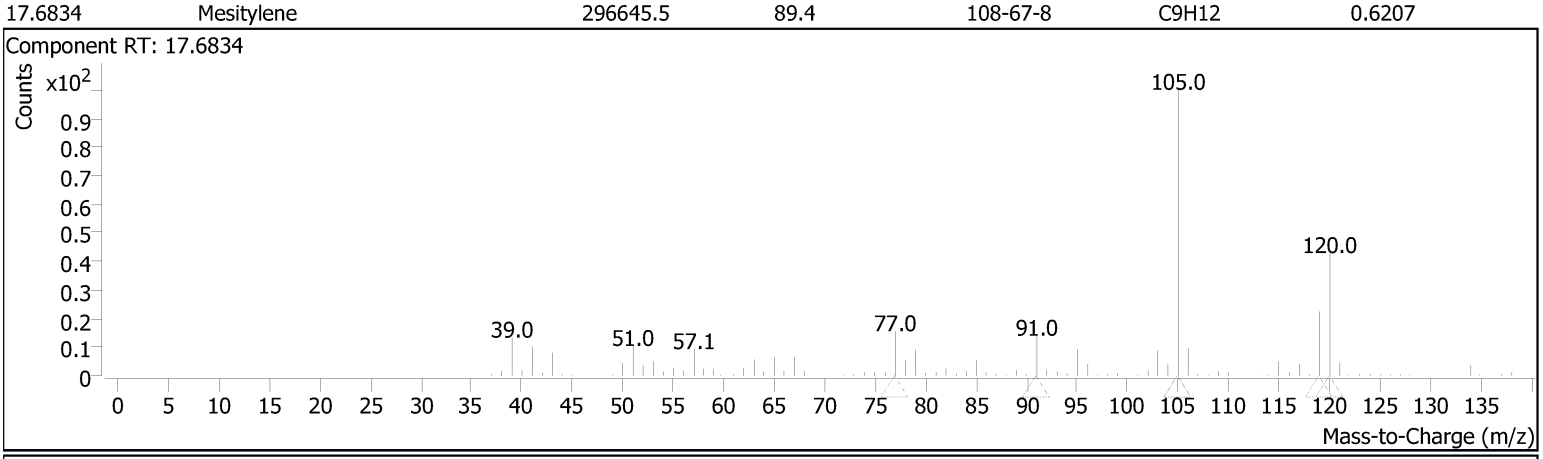



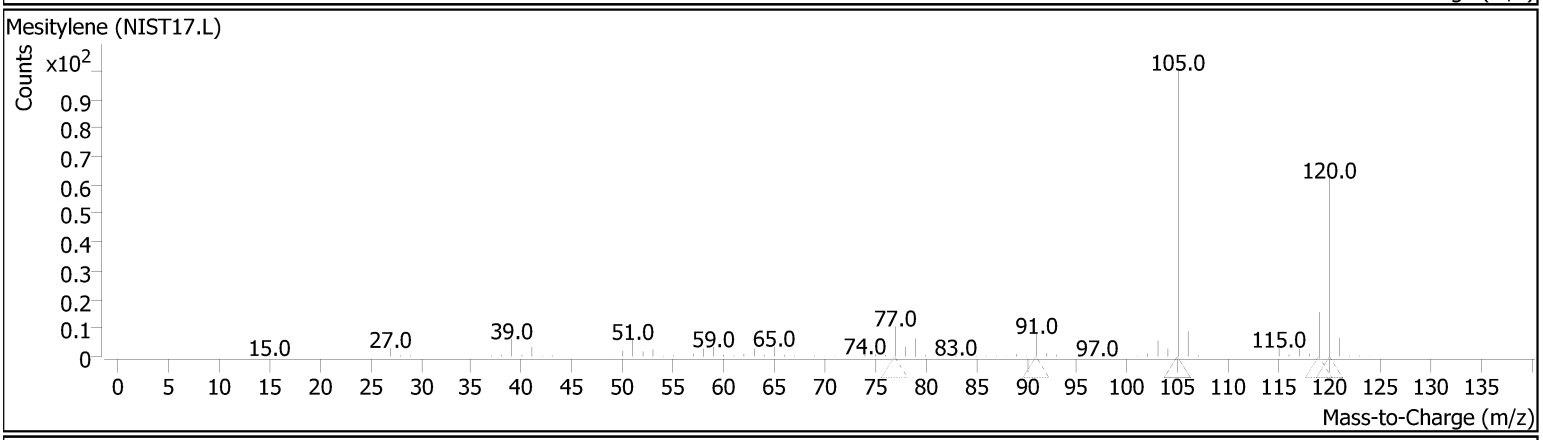



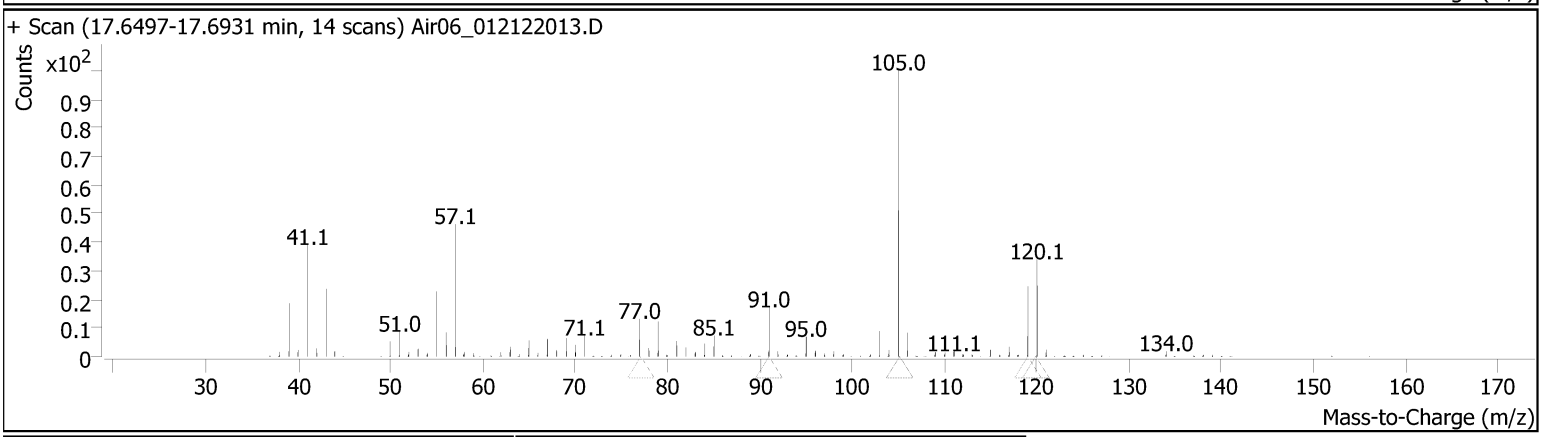



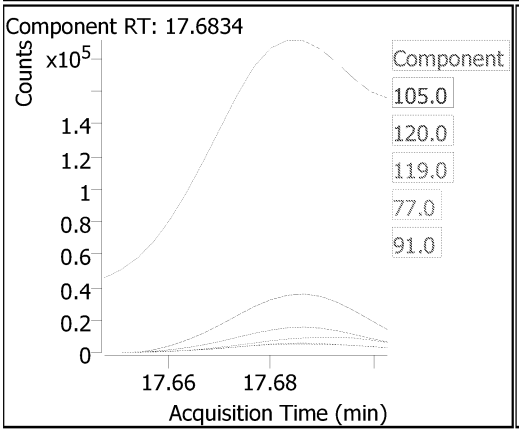



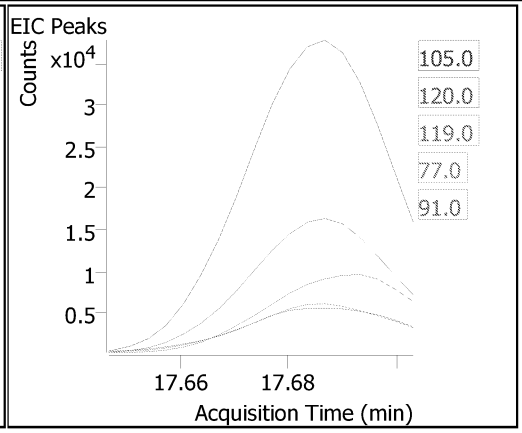
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6834 | Mesitylene | 296645.5 | 89.4 | 108-67-8 | C9H12 | 0.6207 |

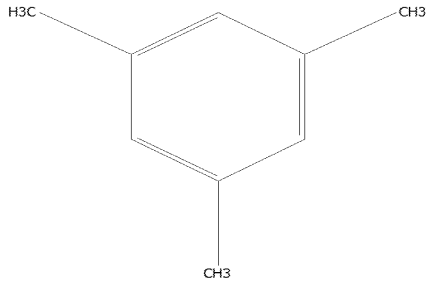


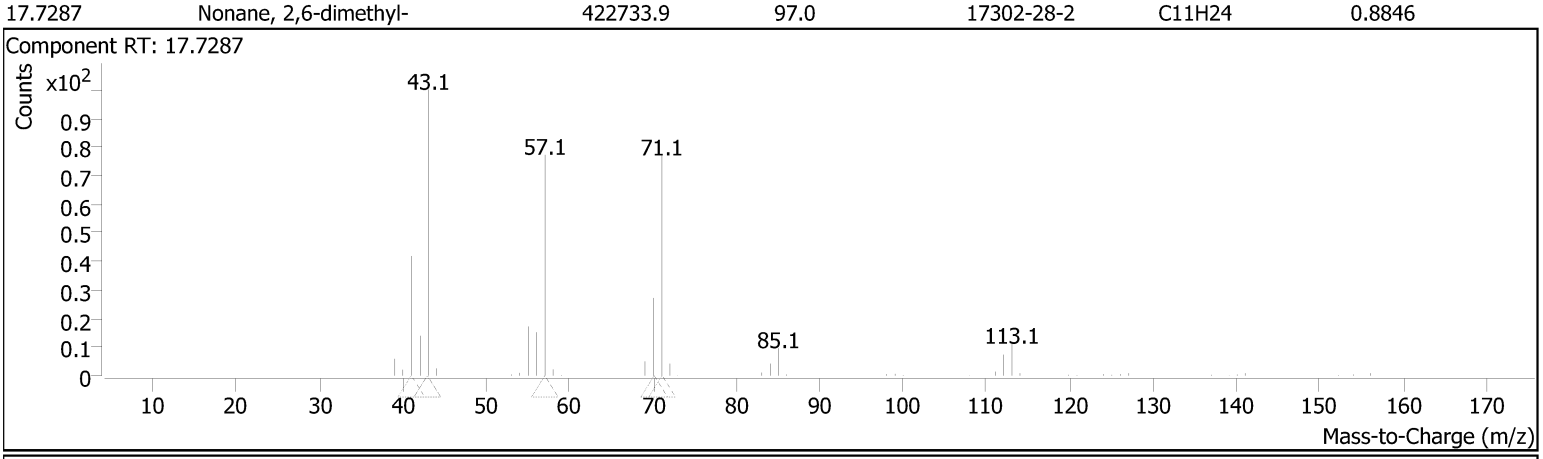



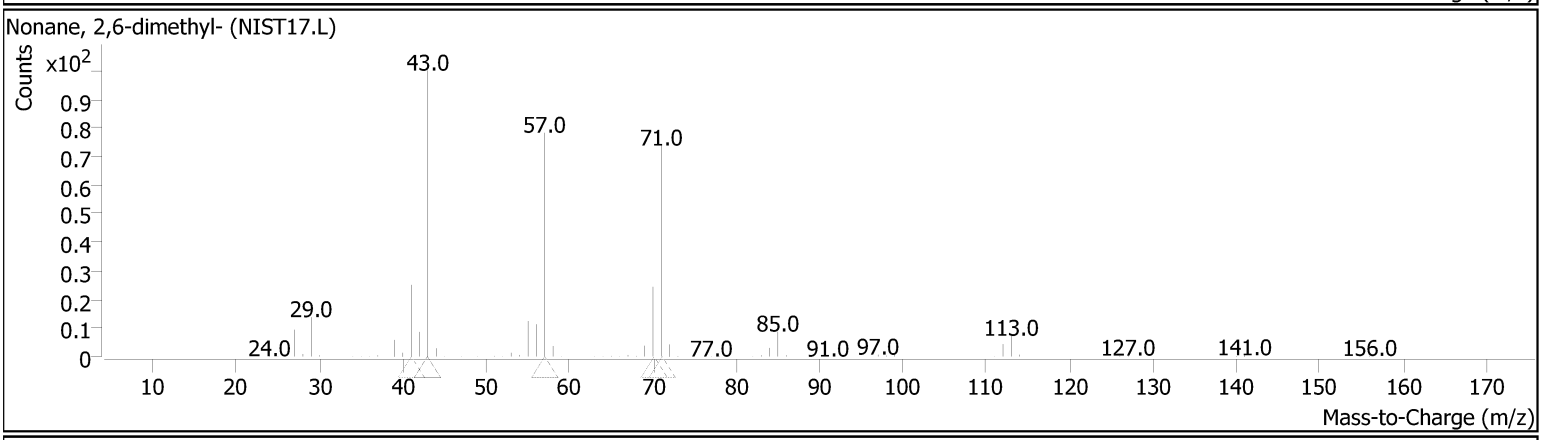



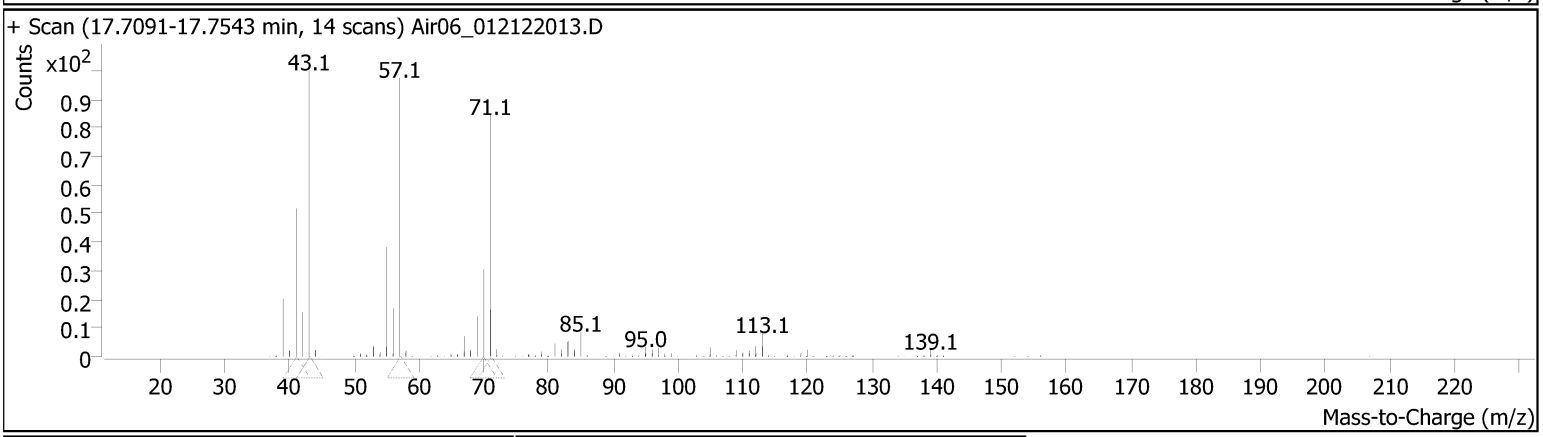
# Library Search Results - NonTarget Hits with Details

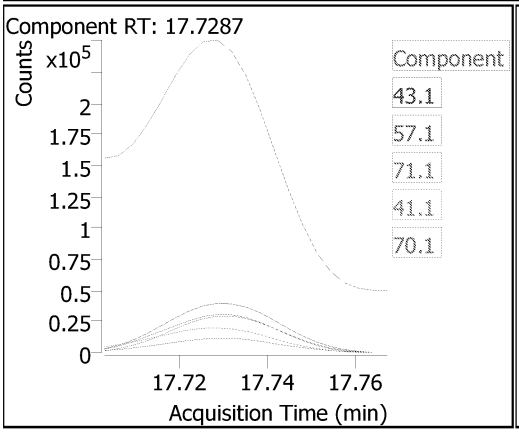
Agilent Technologies

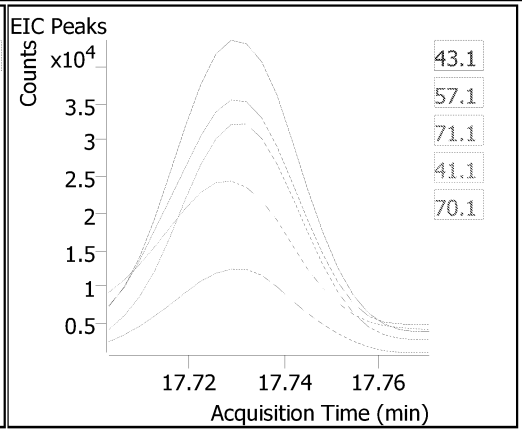
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.7287 | Nonane, 2,6-dimethyl- | 422733.9 | 97.0 | 17302-28-2 | C11H24 | 0.8846 |

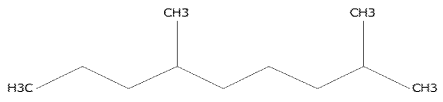


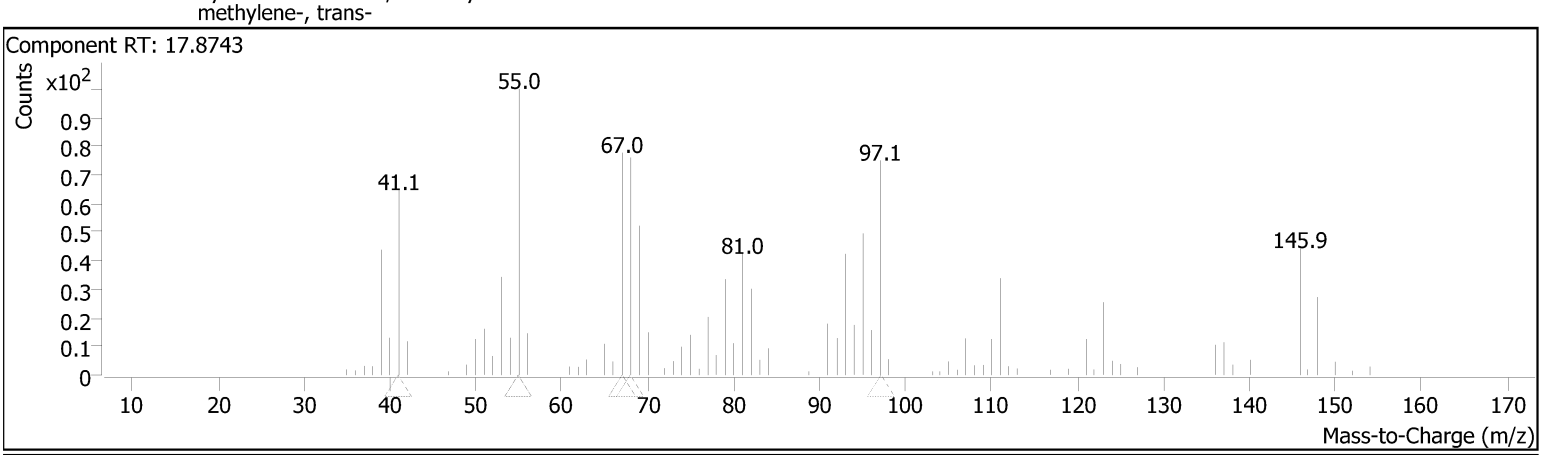



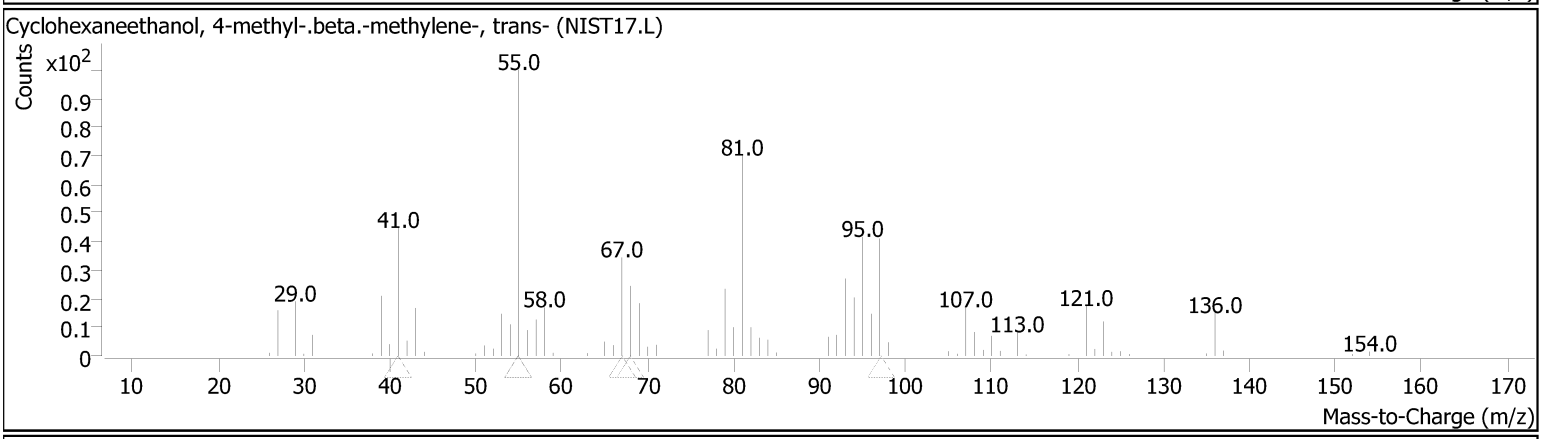



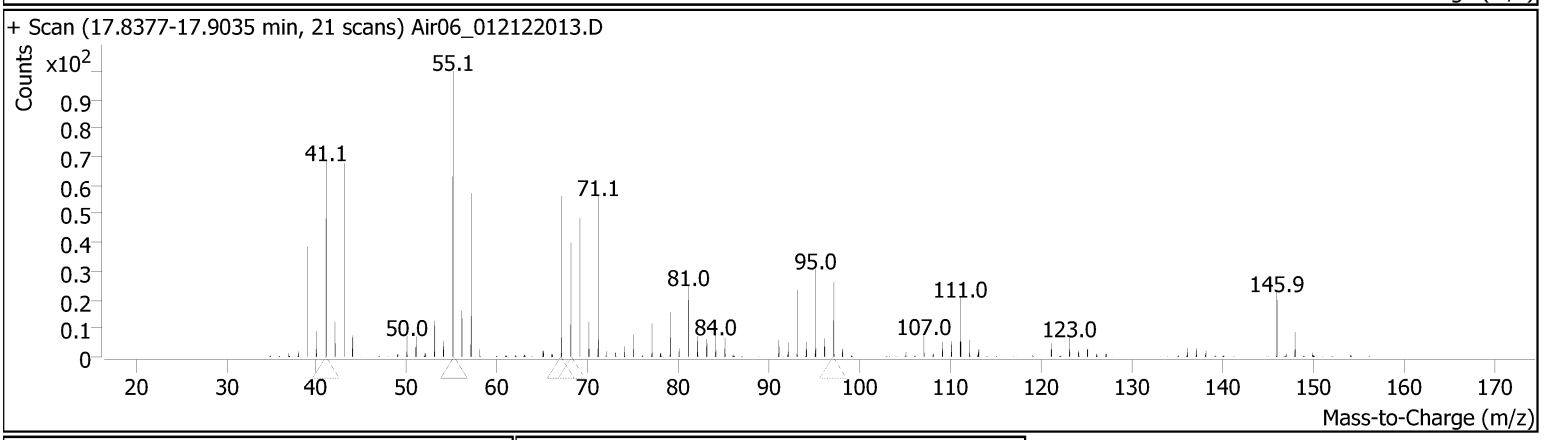



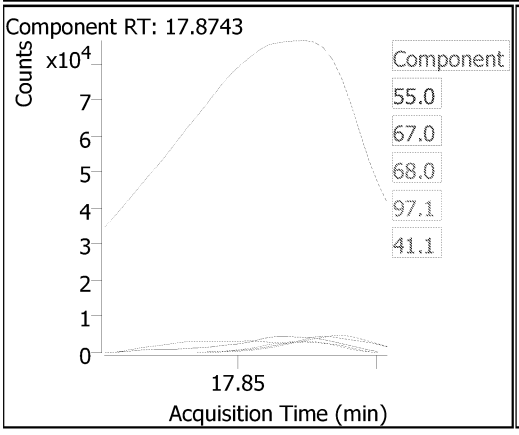



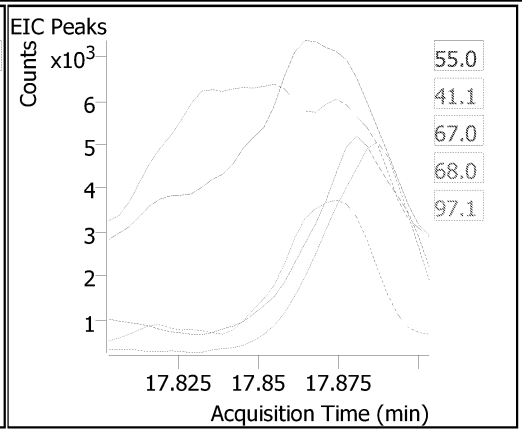
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.8743 | Cyclohexaneethanol, 4-methyl-.beta.-methylene-, trans- | 173439.2 | 77.7 | 15714-12-2 | C10H18O | 0.3629 |

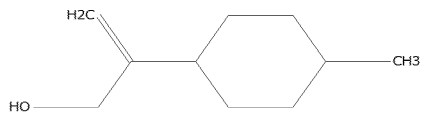


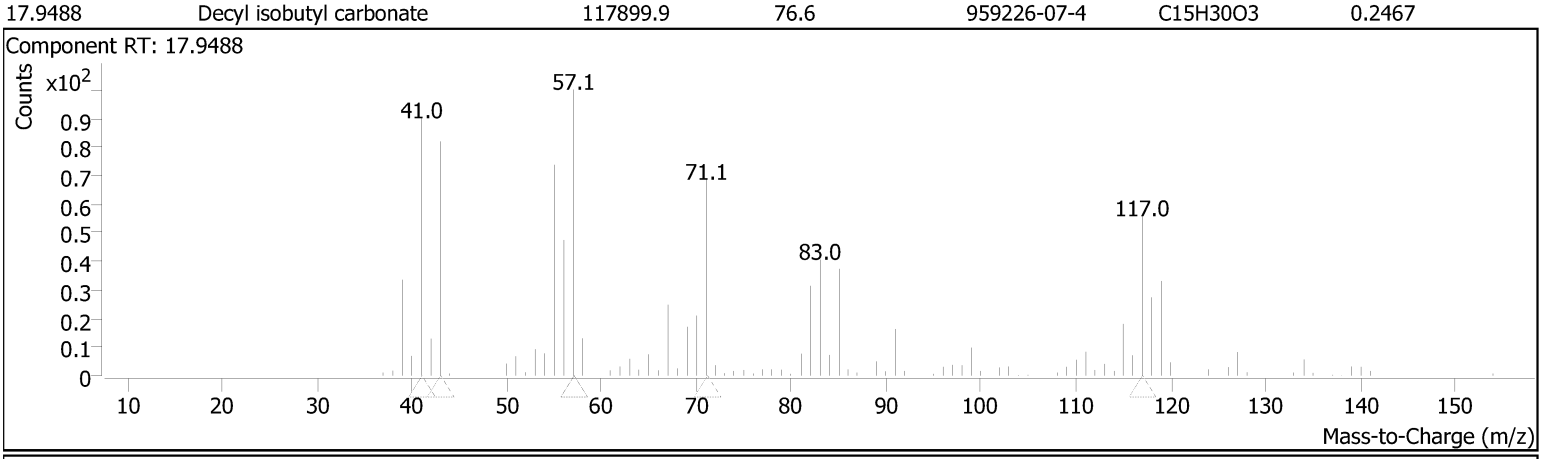



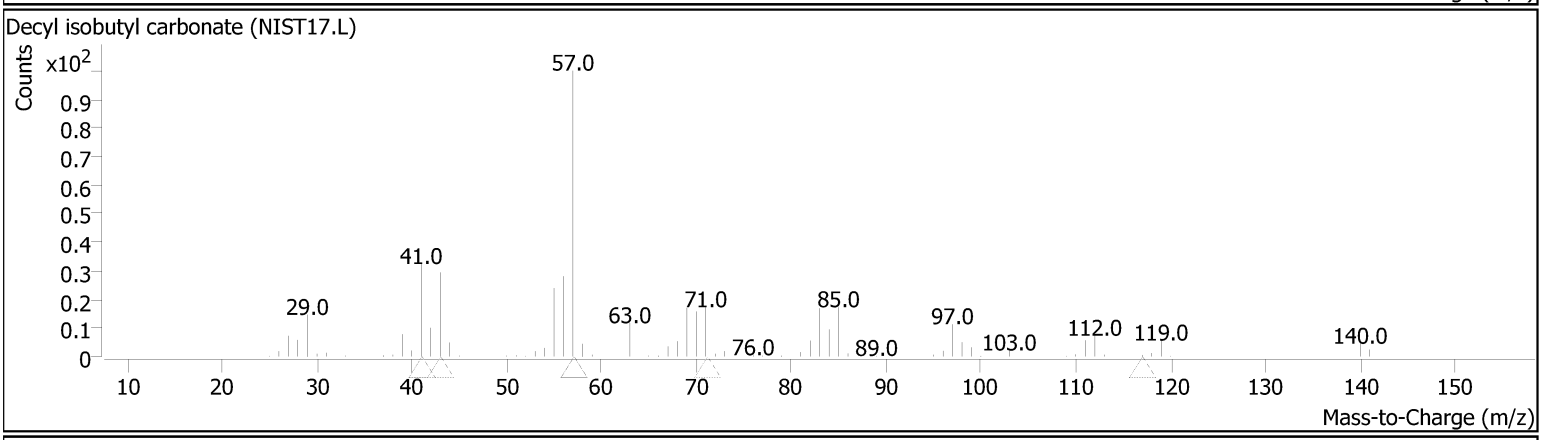



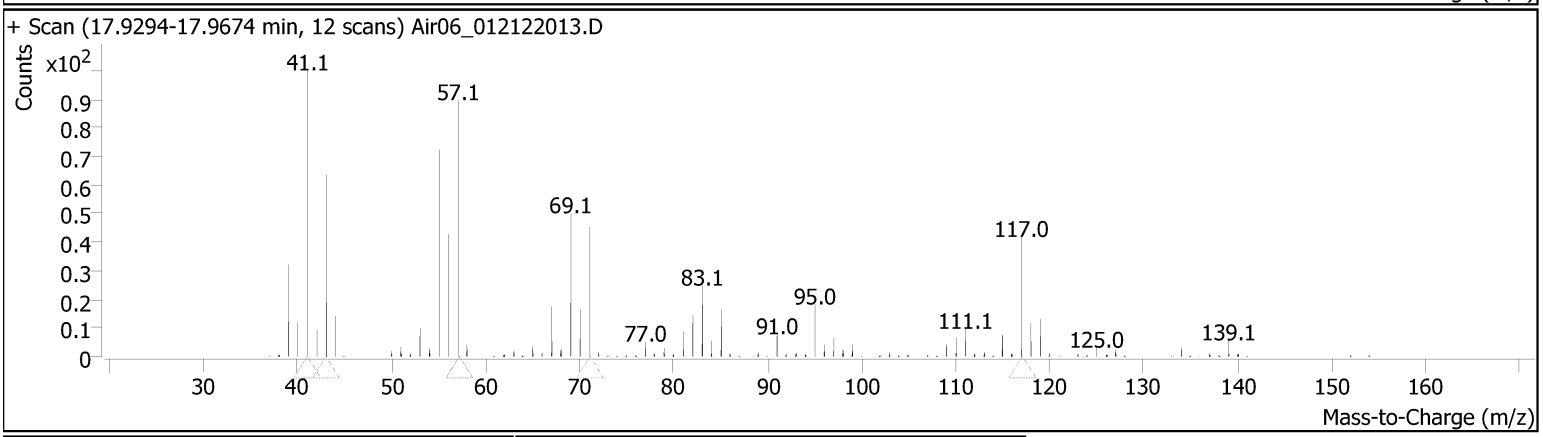



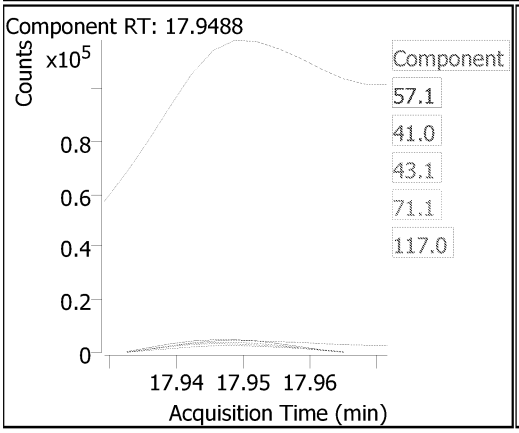



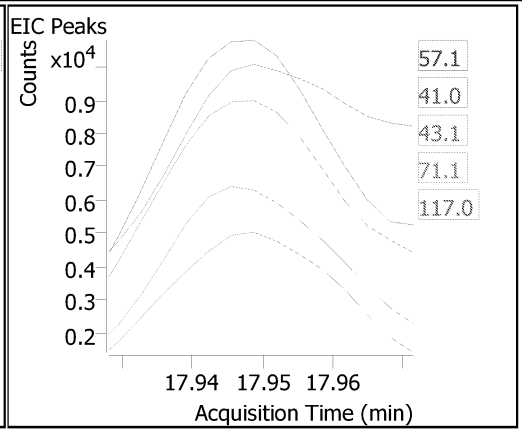
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.9488 | Decyl isobutyl carbonate | 117899.9 | 76.6 | 959226-07-4 | C15H30O3 | 0.2467 |

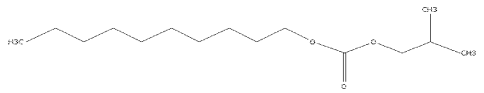


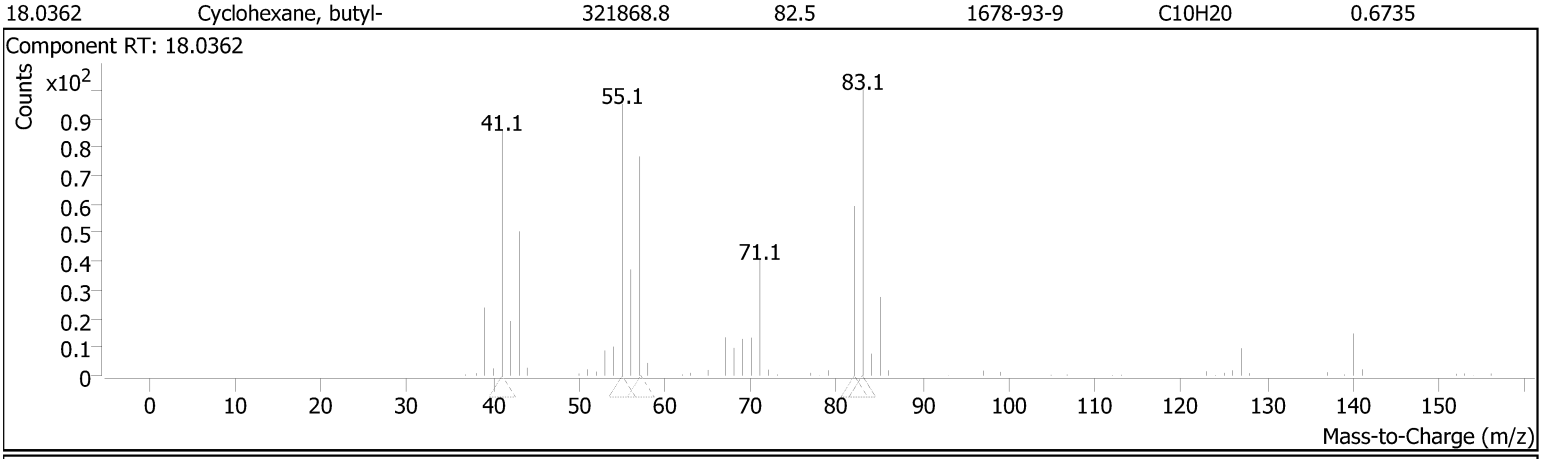



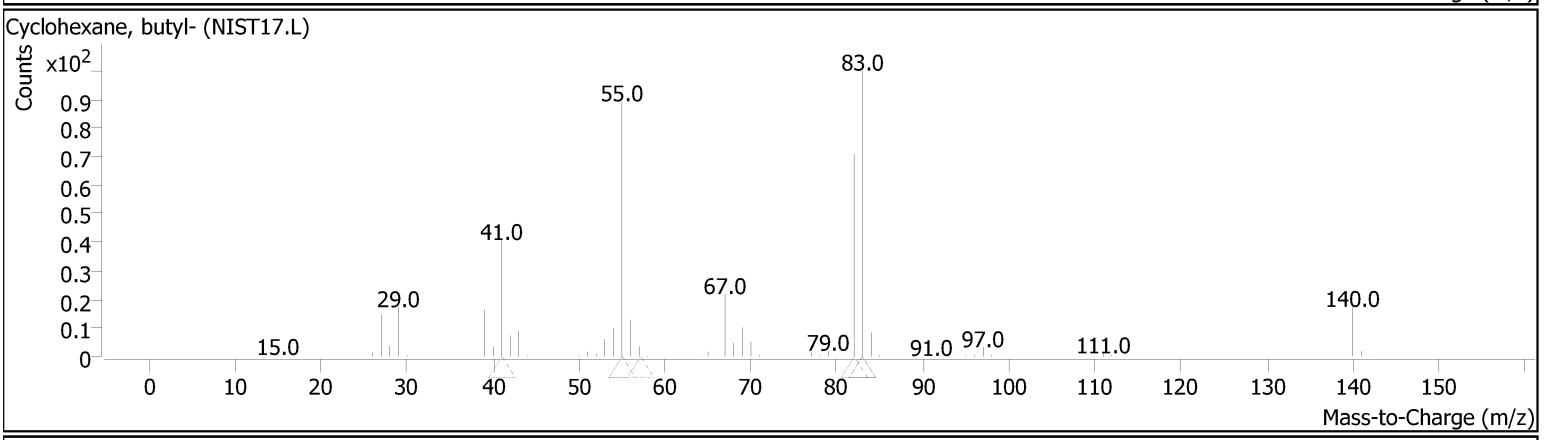



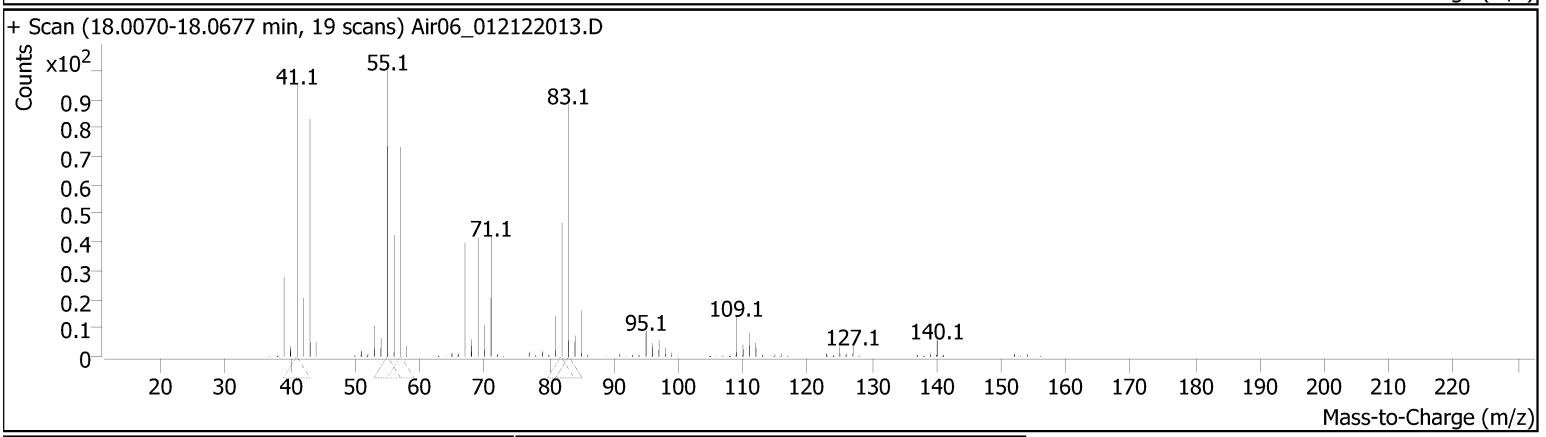



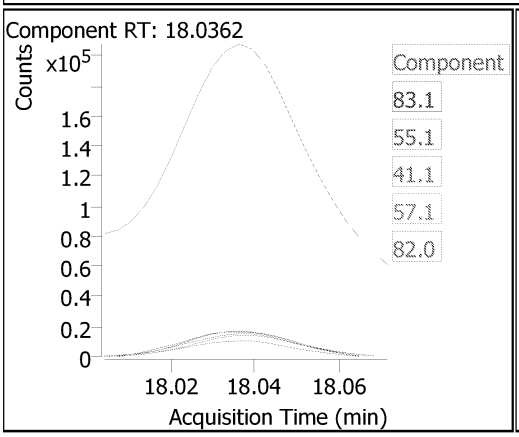



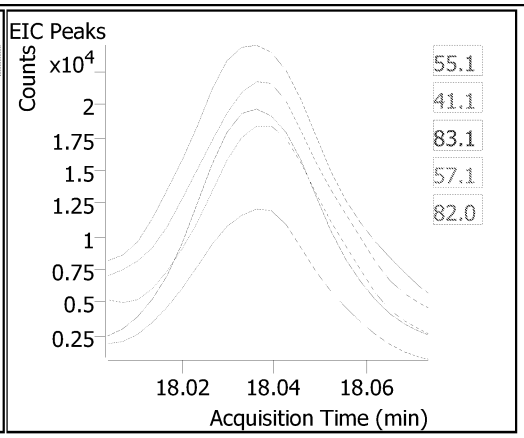
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.0362 | Cyclohexane, butyl- | 321868.8 | 82.5 | 1678-93-9 | C10H20 | 0.6735 |

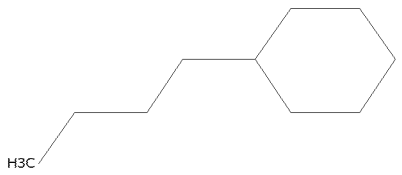


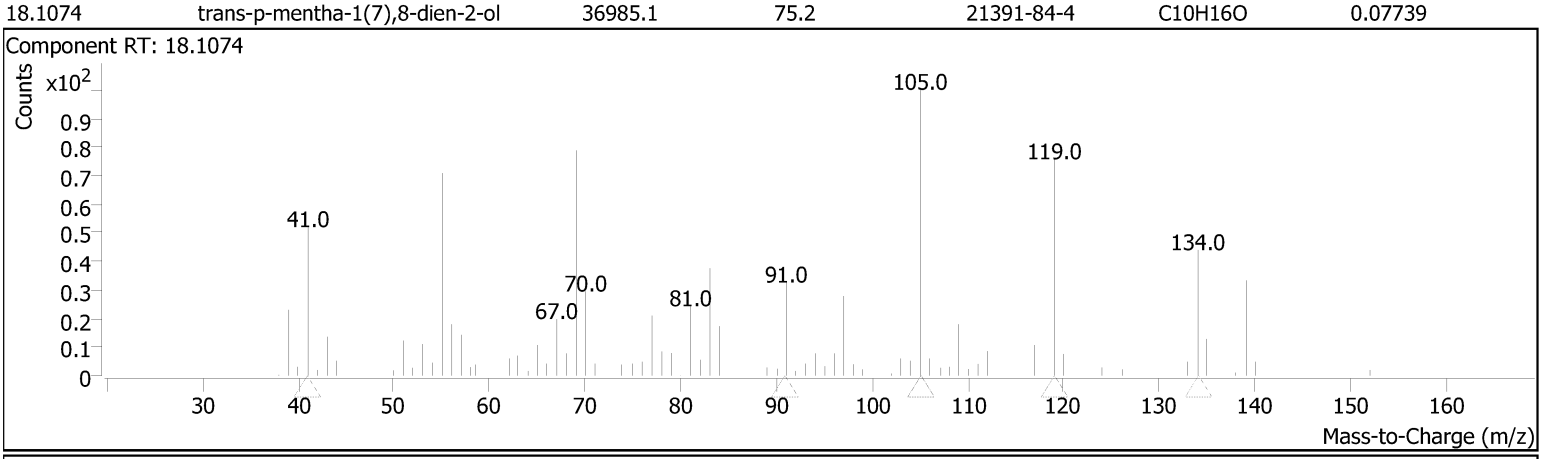



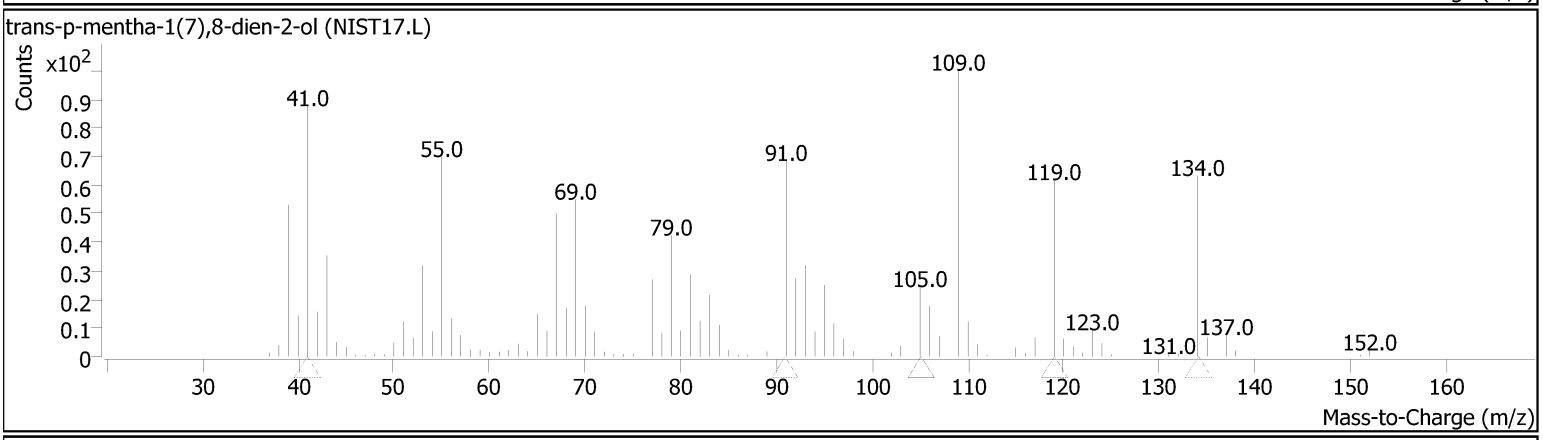



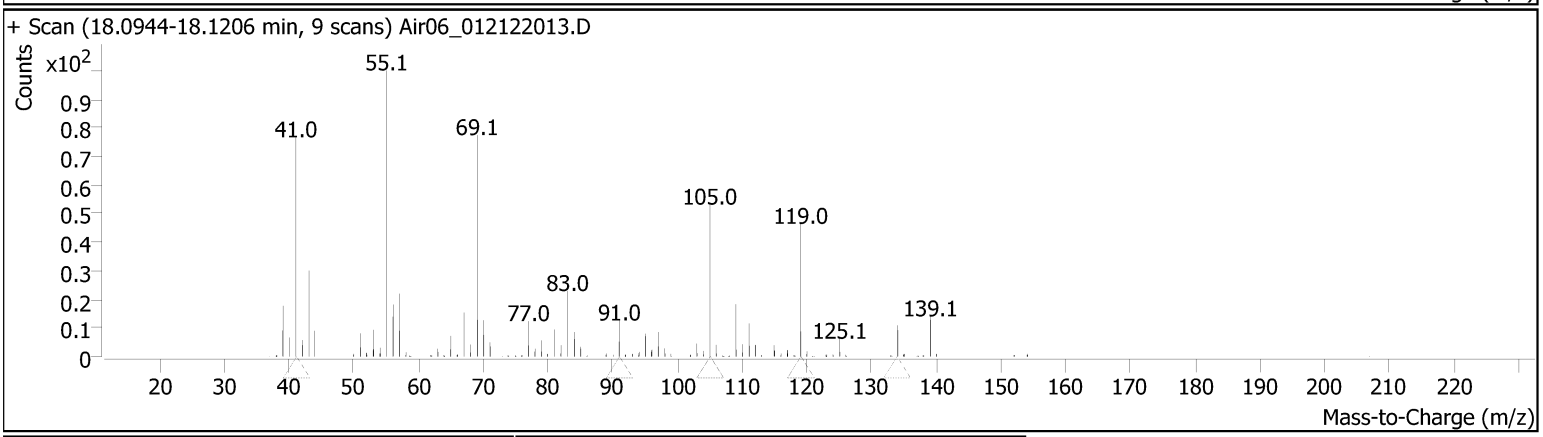



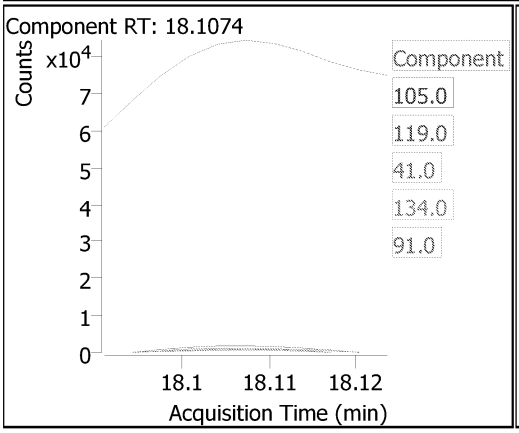



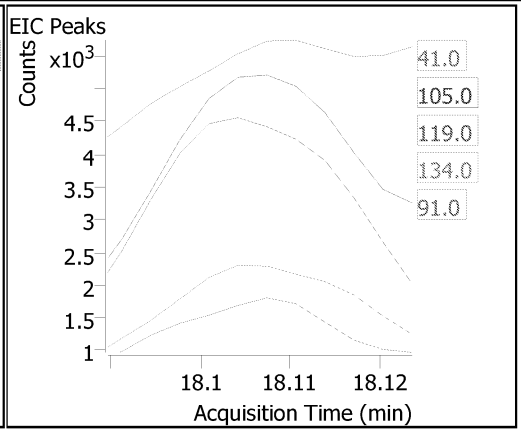
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1074 | trans-p-mentha-1(7),8-dien-2-ol | 36985.1 | 75.2 | 21391-84-4 | C10H16O | 0.07739 |

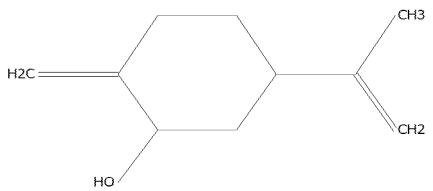


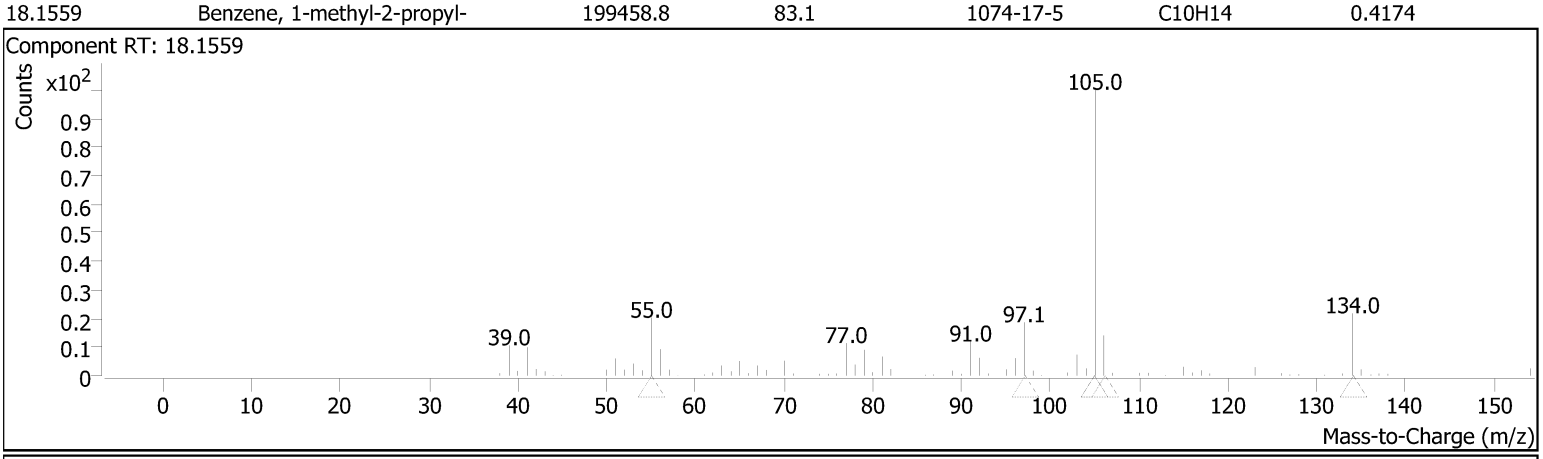



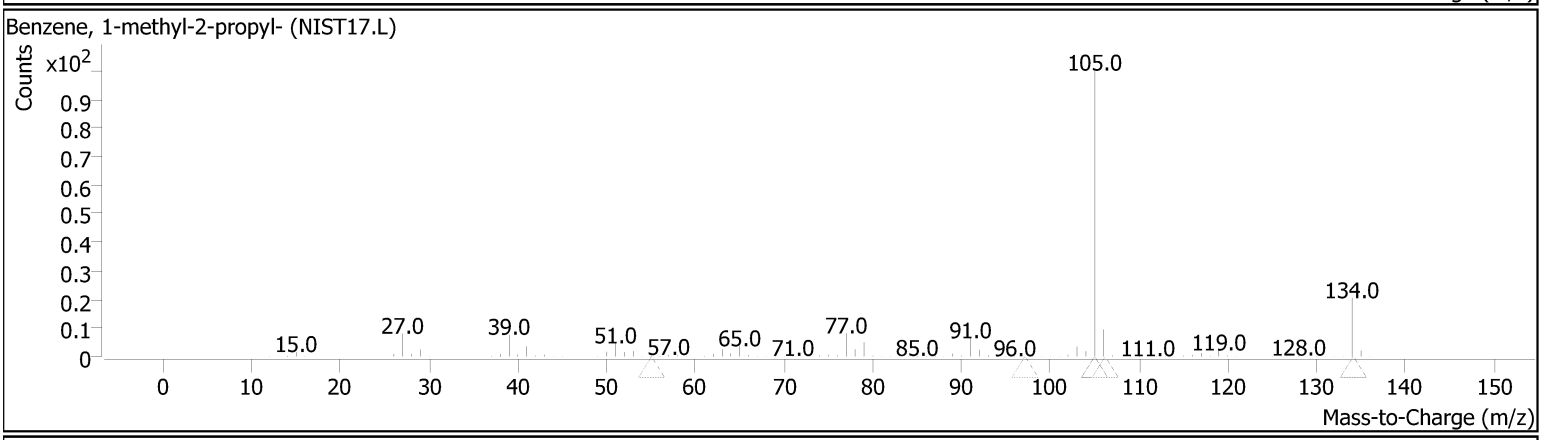



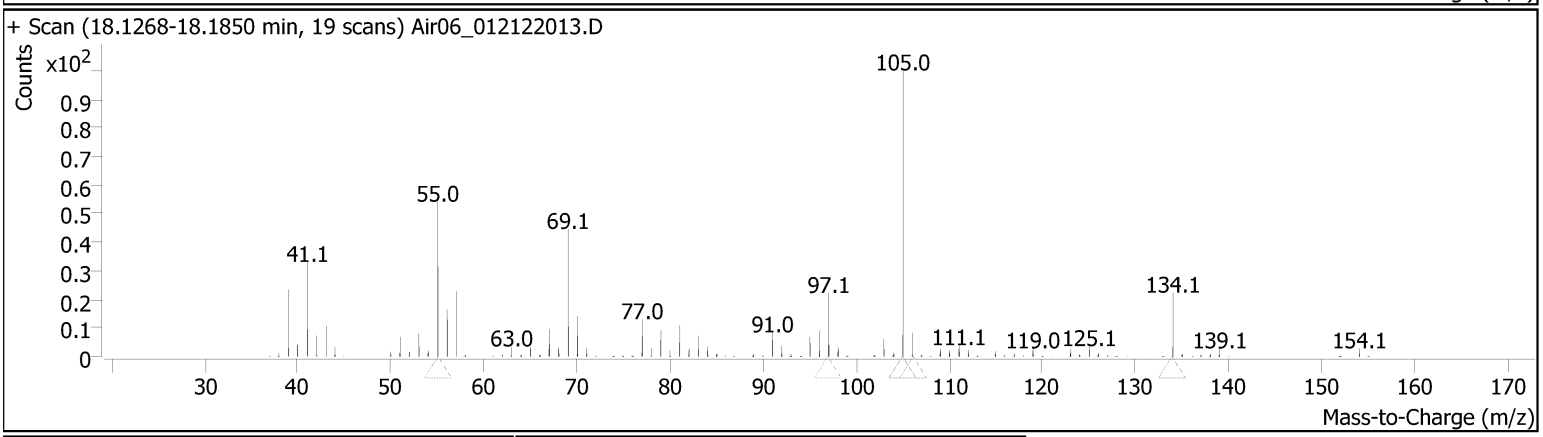



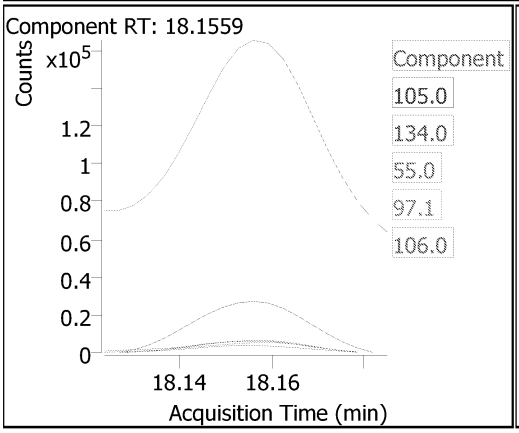



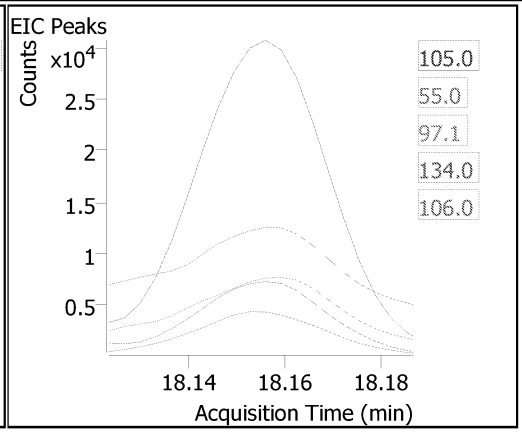
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1559 | Benzene, 1-methyl-2-propyl- | 199458.8 | 83.1 | 1074-17-5 | C10H14 | 0.4174 |

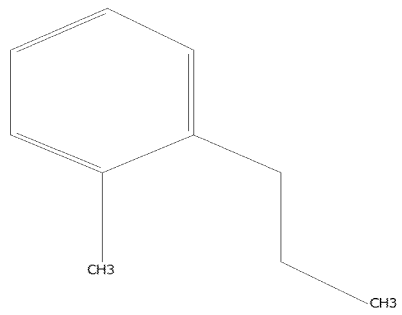


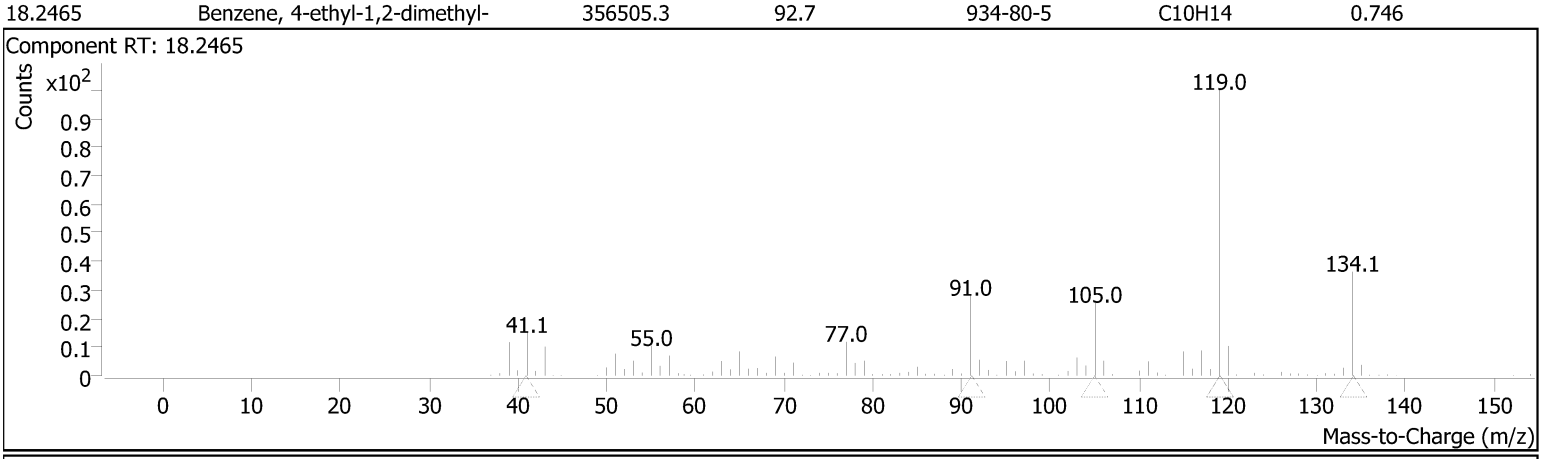



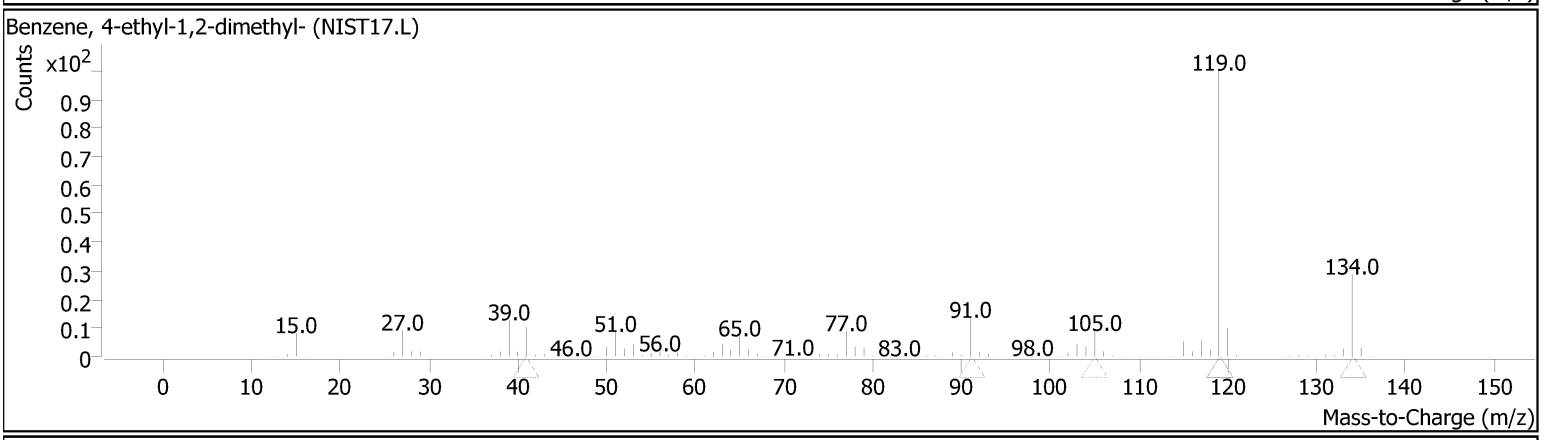



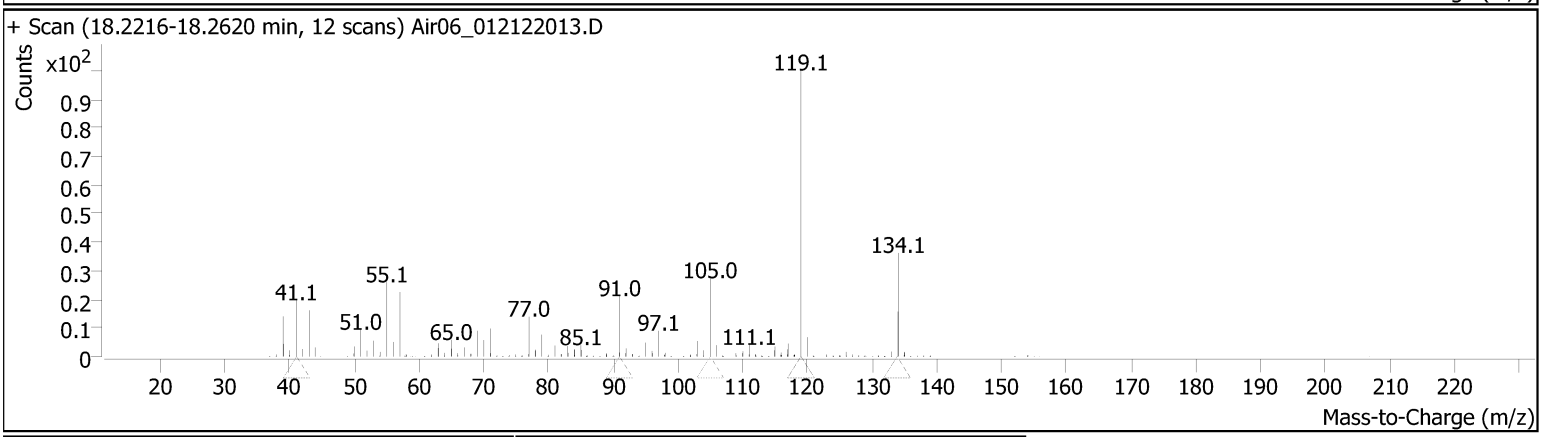
# Library Search Results - NonTarget Hits with Details

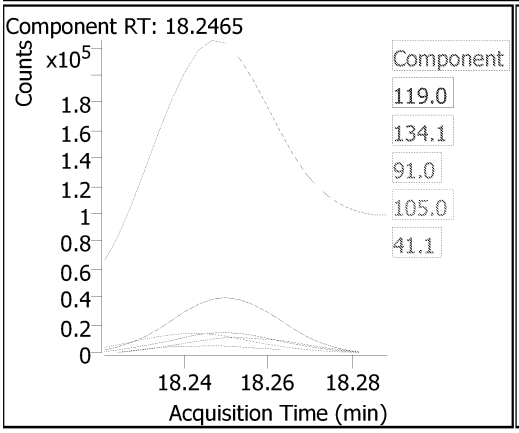
Agilent Technologies

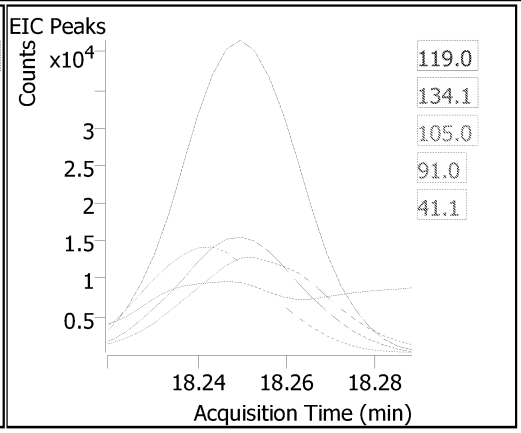
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.2465 | Benzene, 4-ethyl-1,2-dimethyl- | 356505.3 | 92.7 | 934-80-5 | C10H14 | 0.746 |

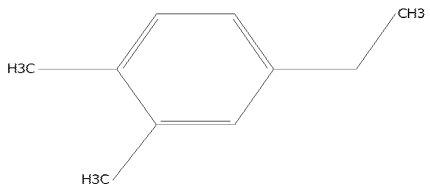


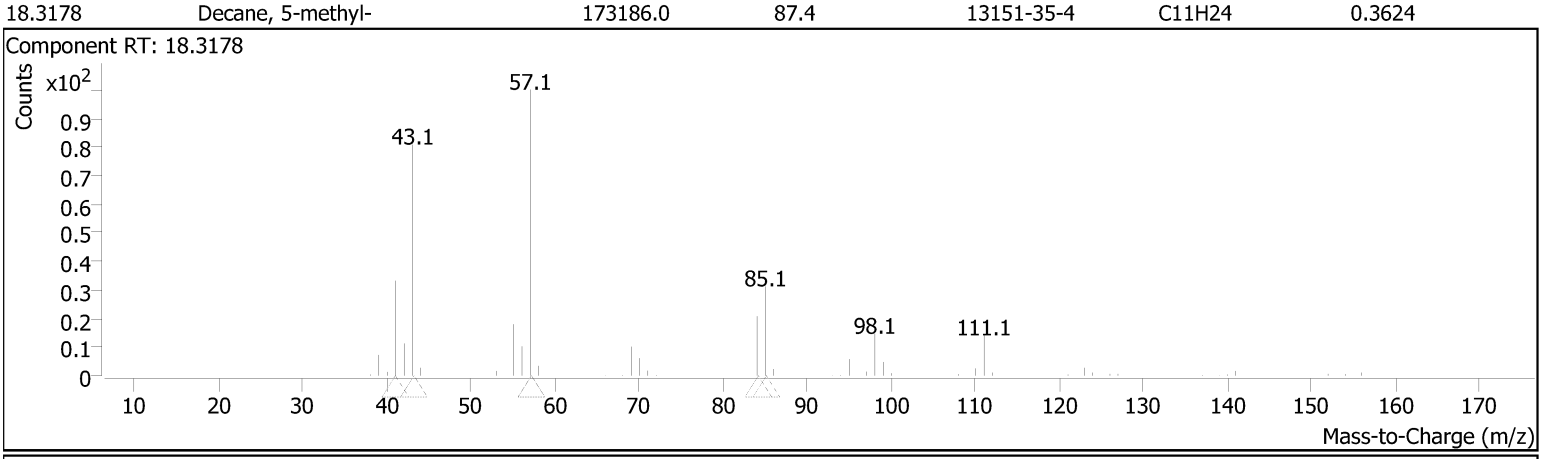



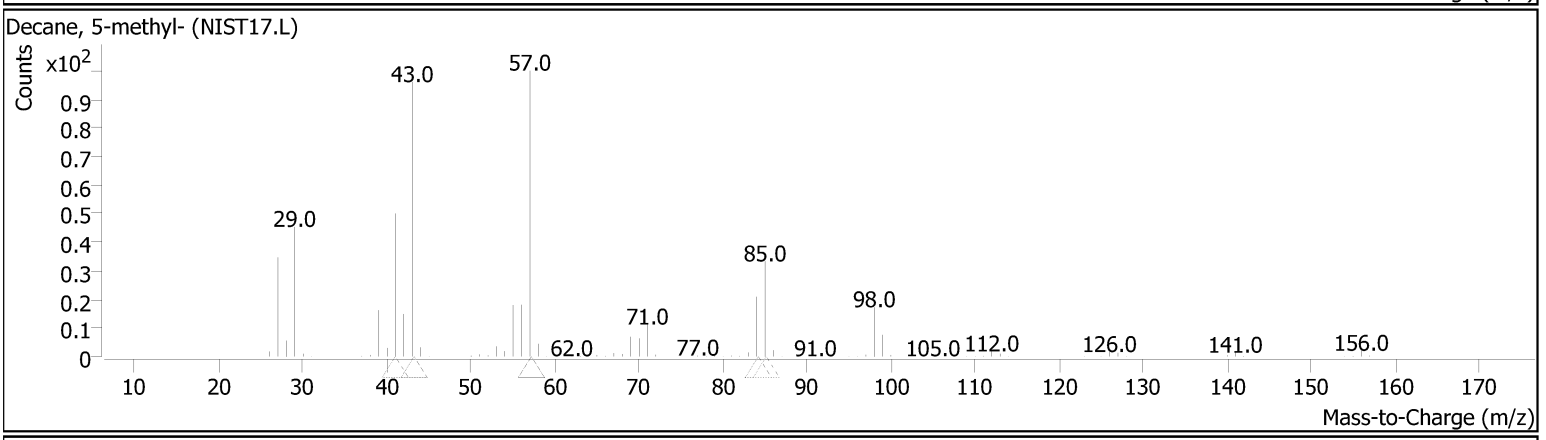



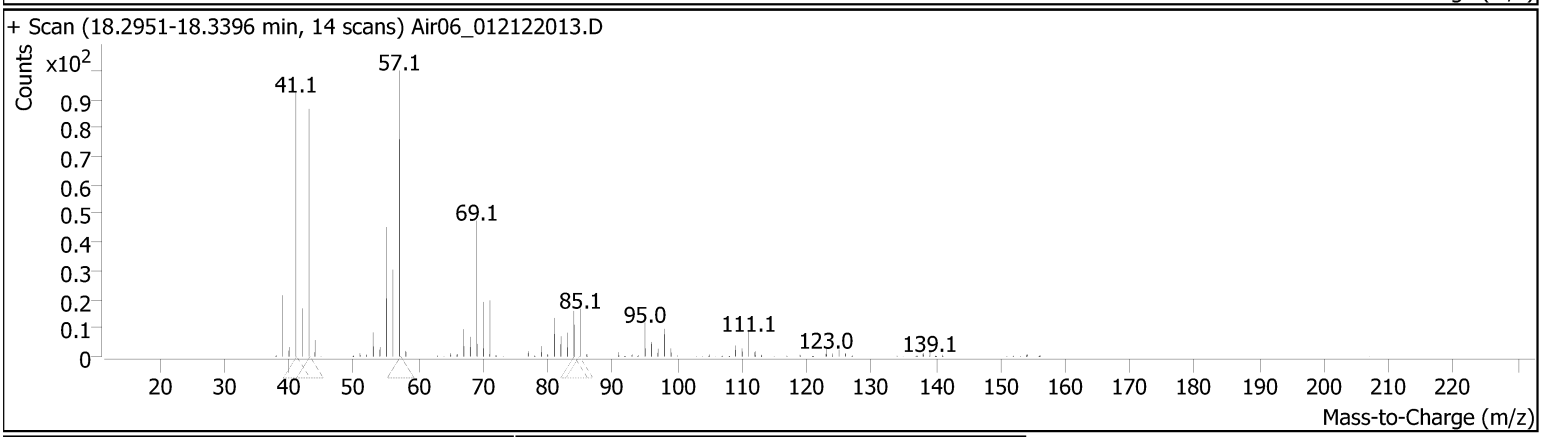



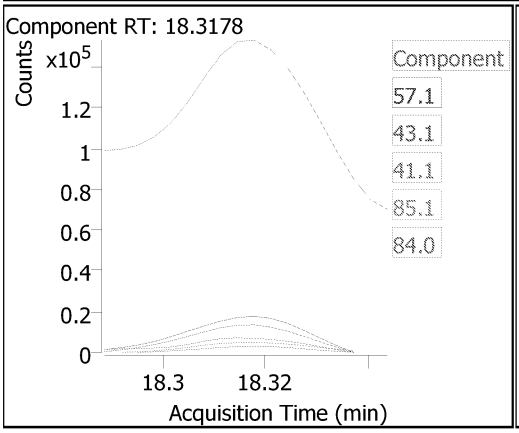



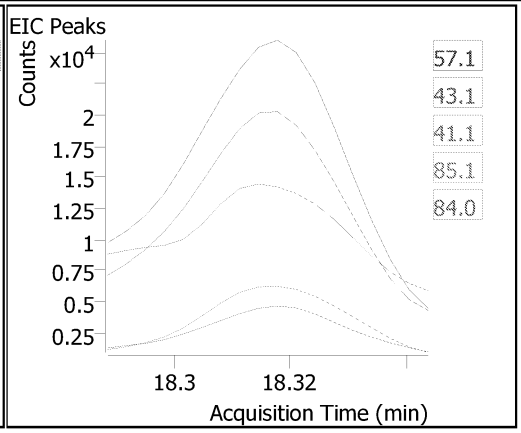
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3178 | Decane, 5-methyl- | 173186.0 | 87.4 | 13151-35-4 | C11H24 | 0.3624 |

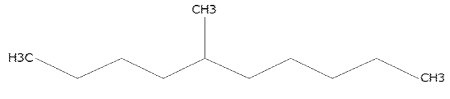


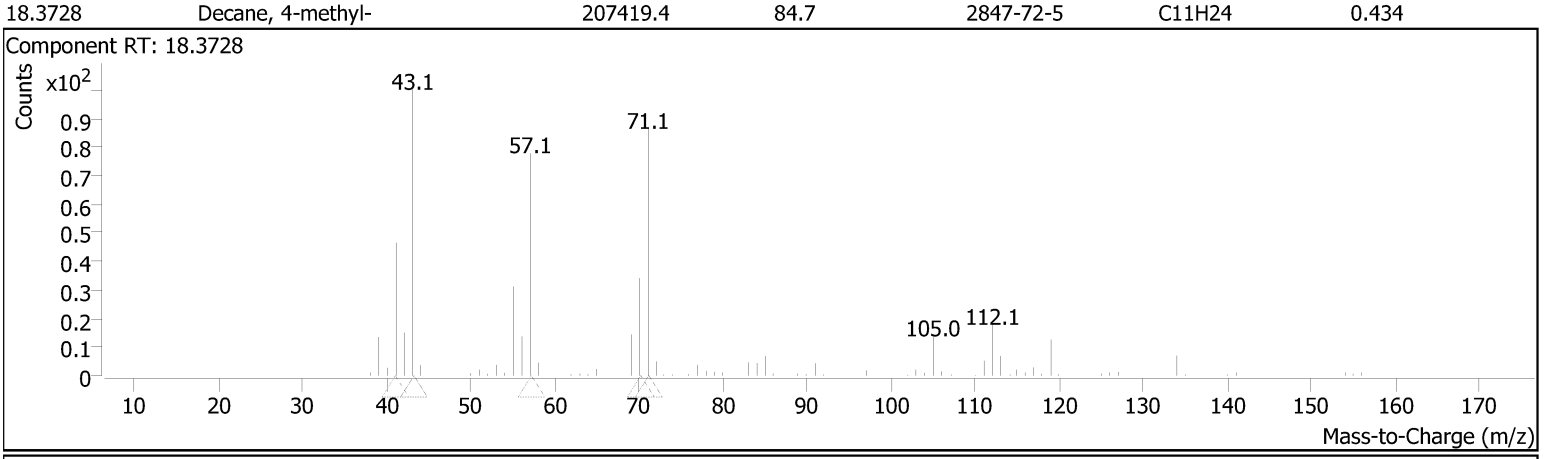



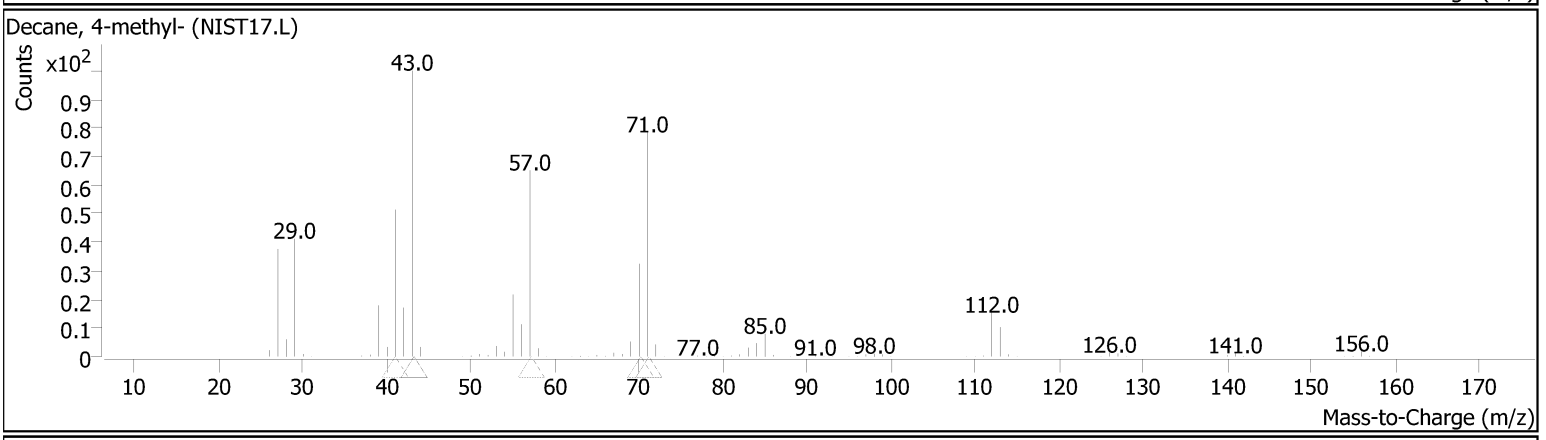



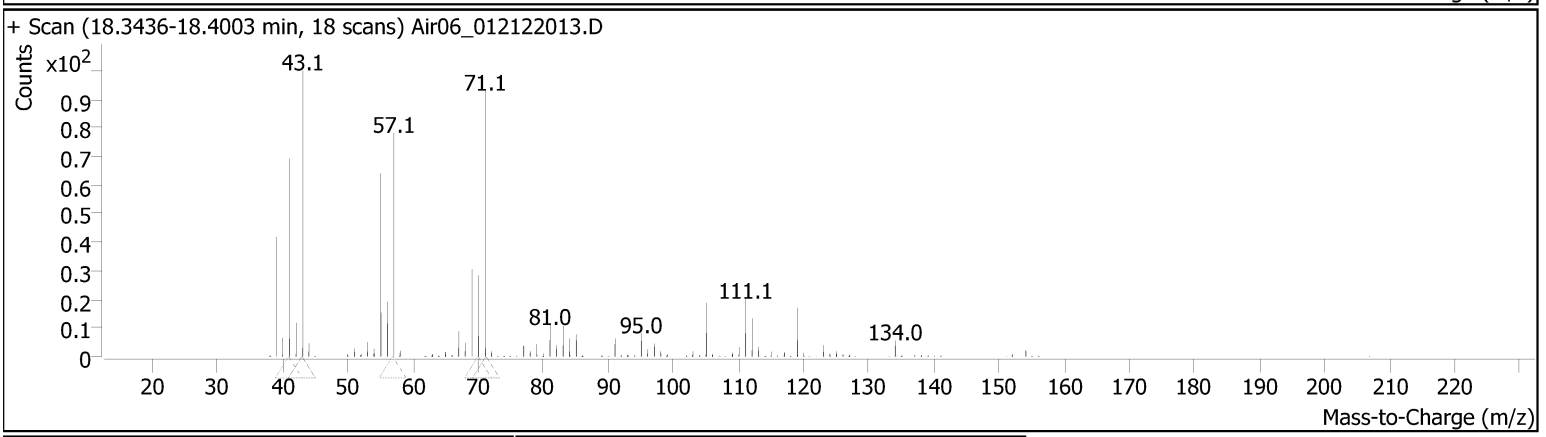



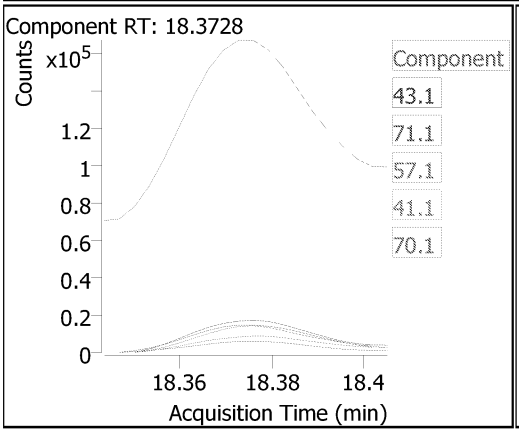



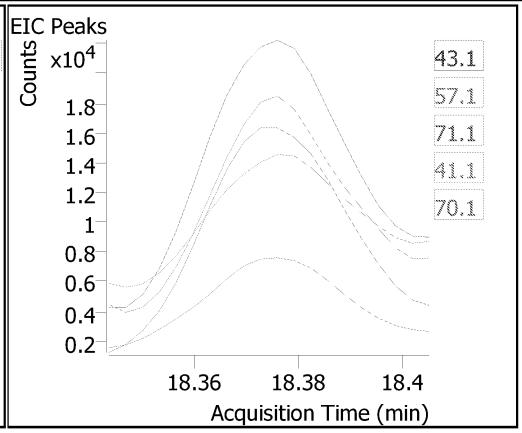
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3728 | Decane, 4-methyl- | 207419.4 | 84.7 | 2847-72-5 | C11H24 | 0.434 |

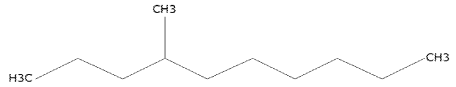


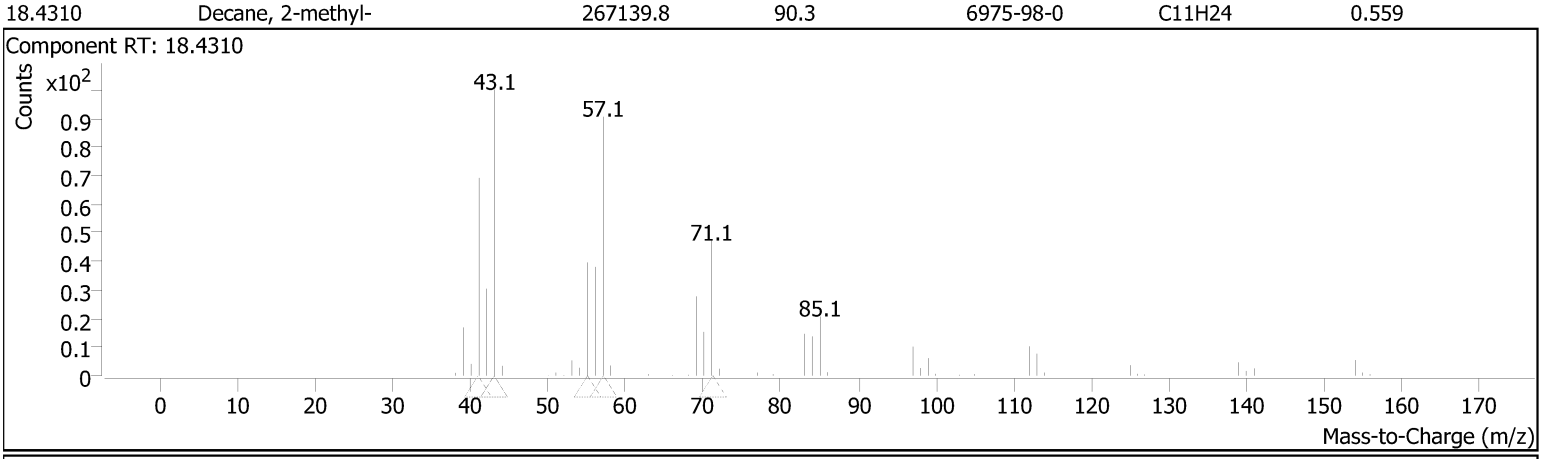



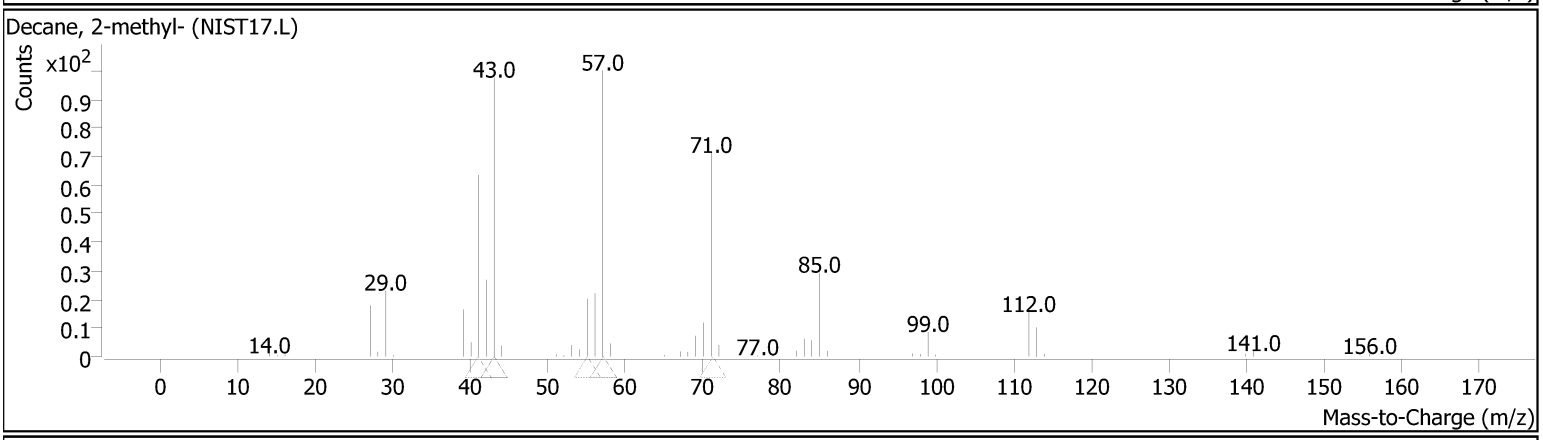



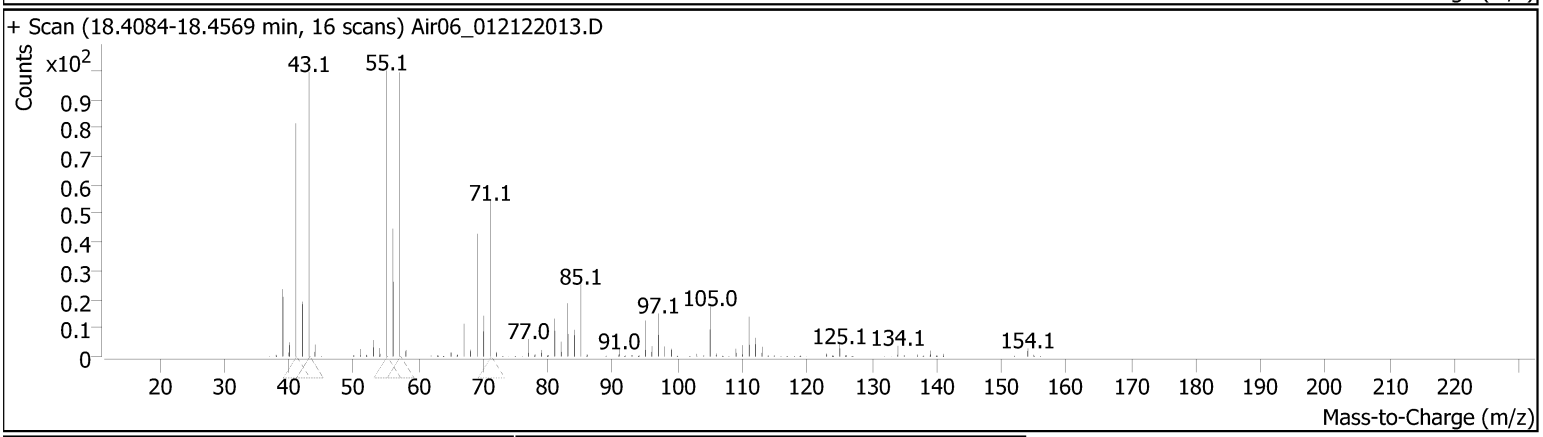
# Library Search Results - NonTarget Hits with Details

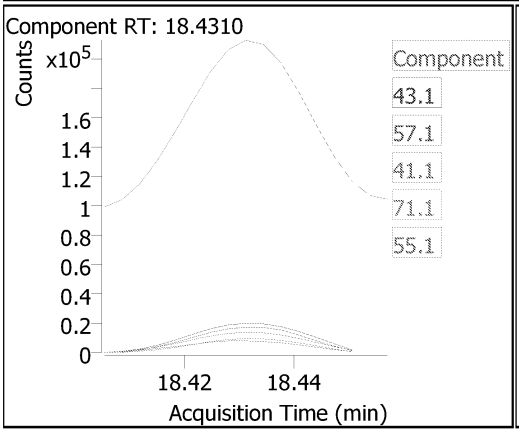
Agilent Technologies

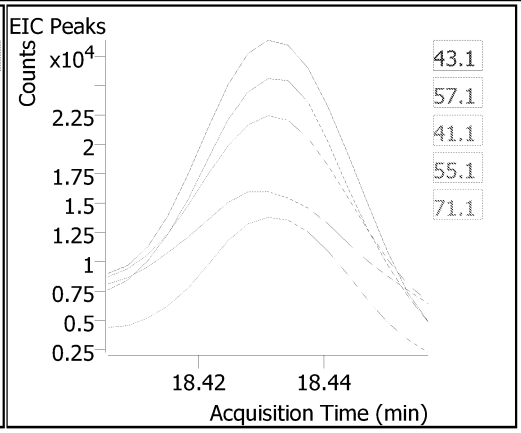
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4310 | Decane, 2-methyl- | 267139.8 | 90.3 | 6975-98-0 | C11H24 | 0.559 |

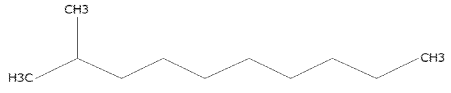


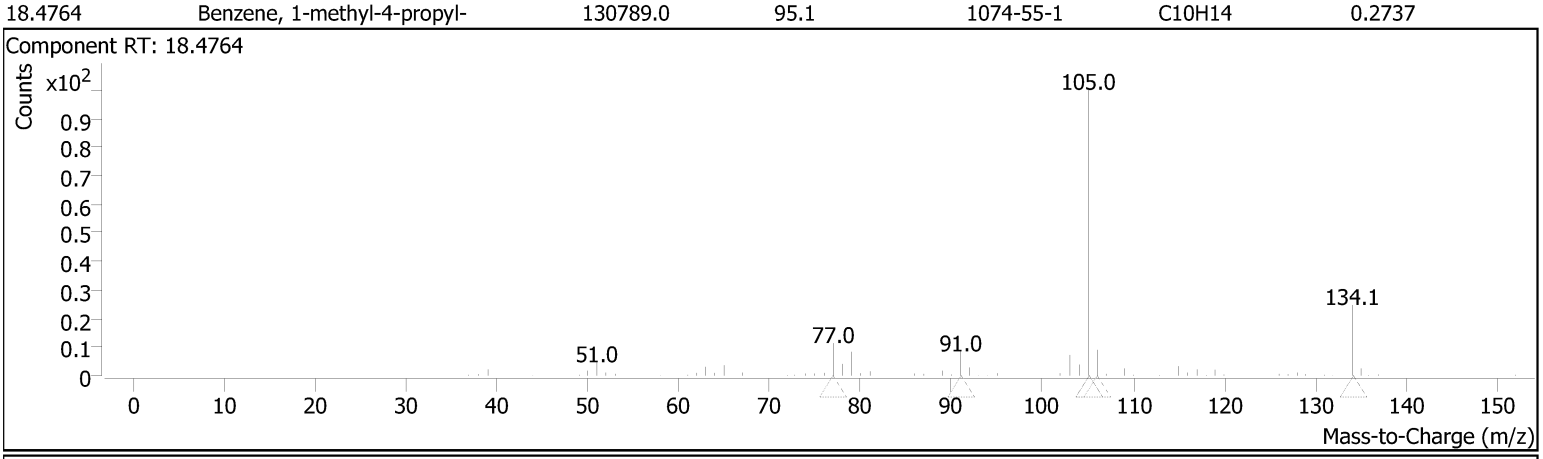



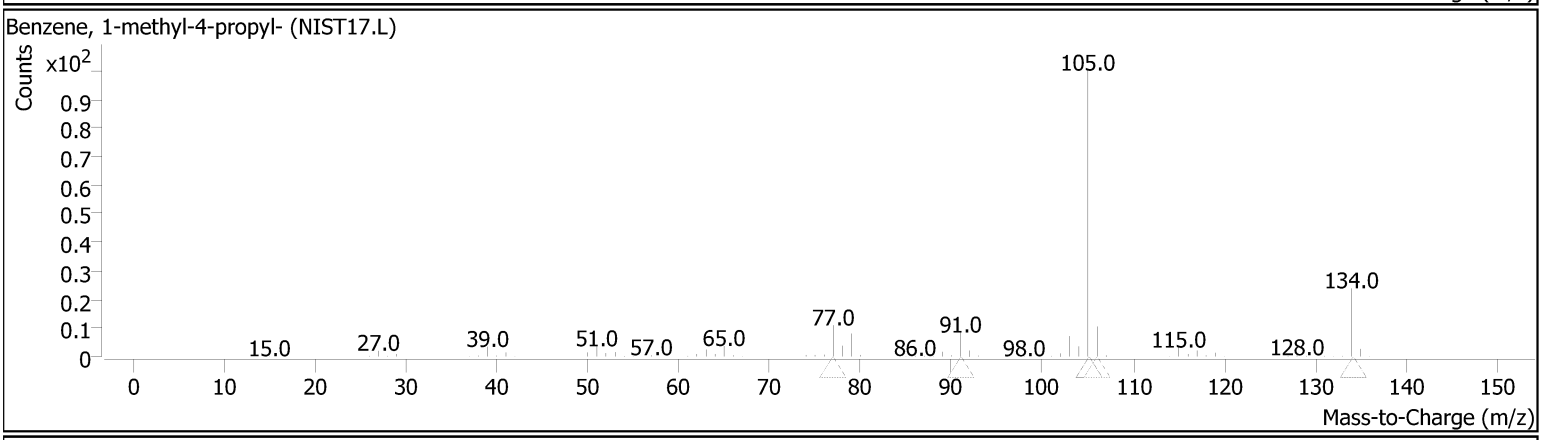



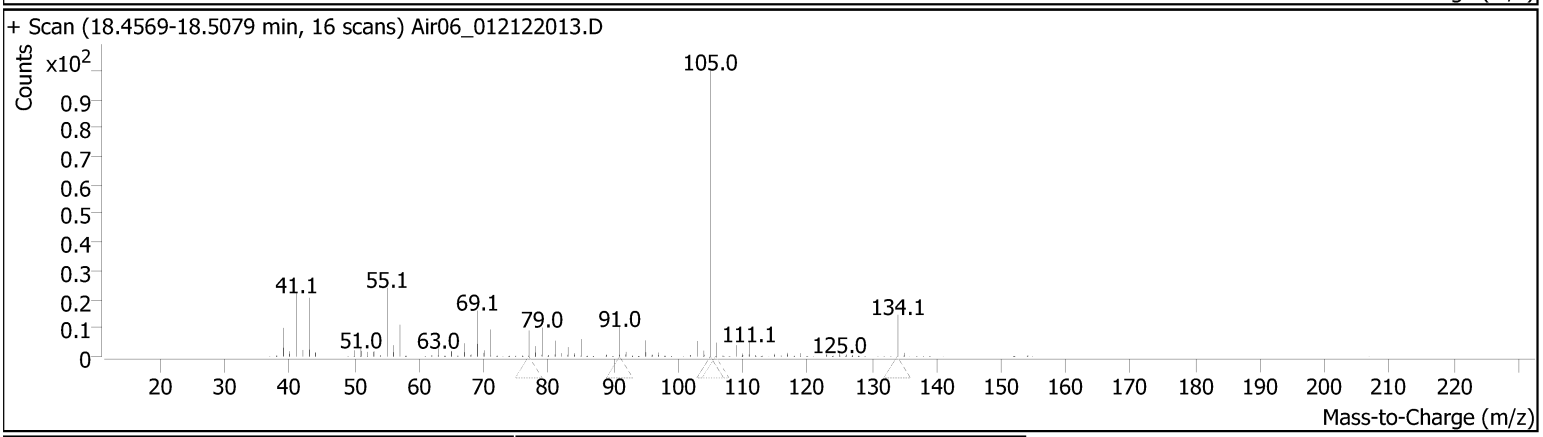



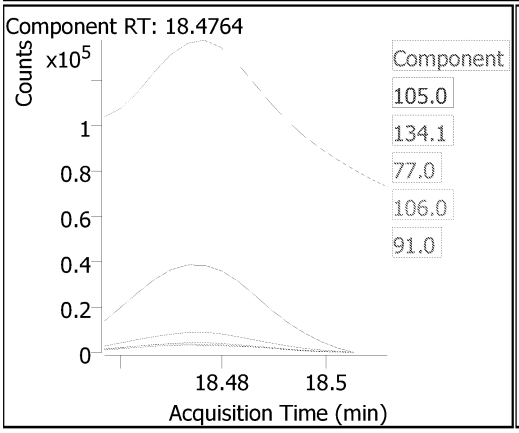



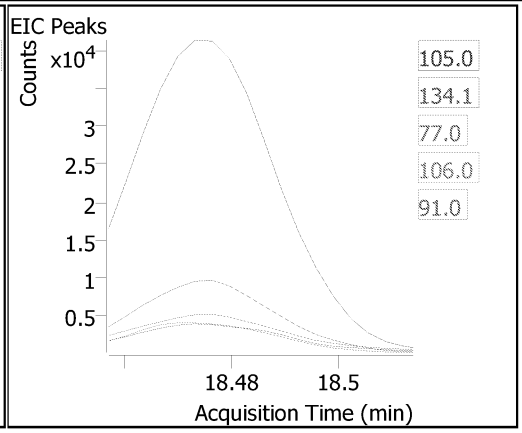
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4764 | Benzene, 1-methyl-4-propyl- | 130789.0 | 95.1 | 1074-55-1 | C10H14 | 0.2737 |

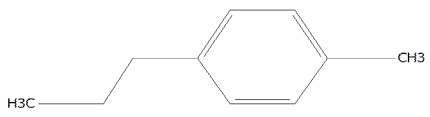


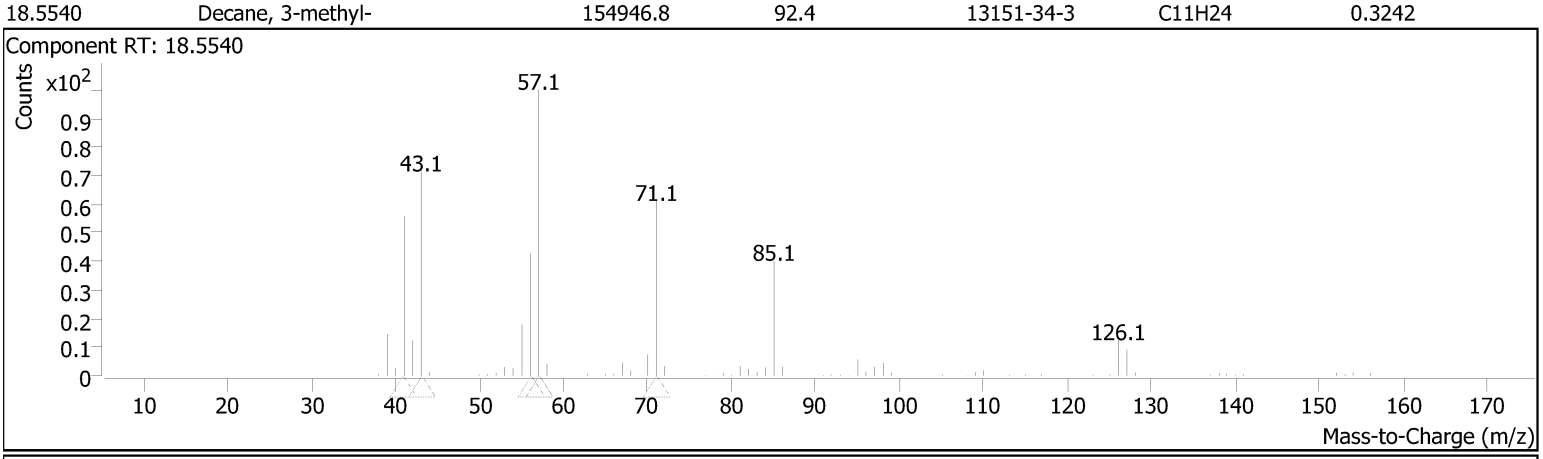



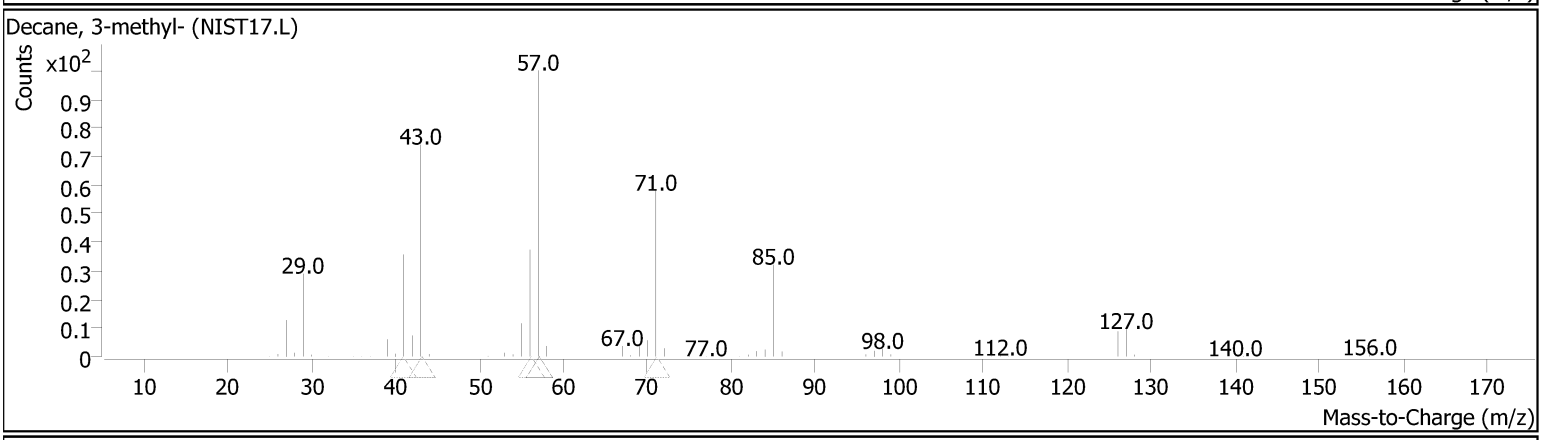



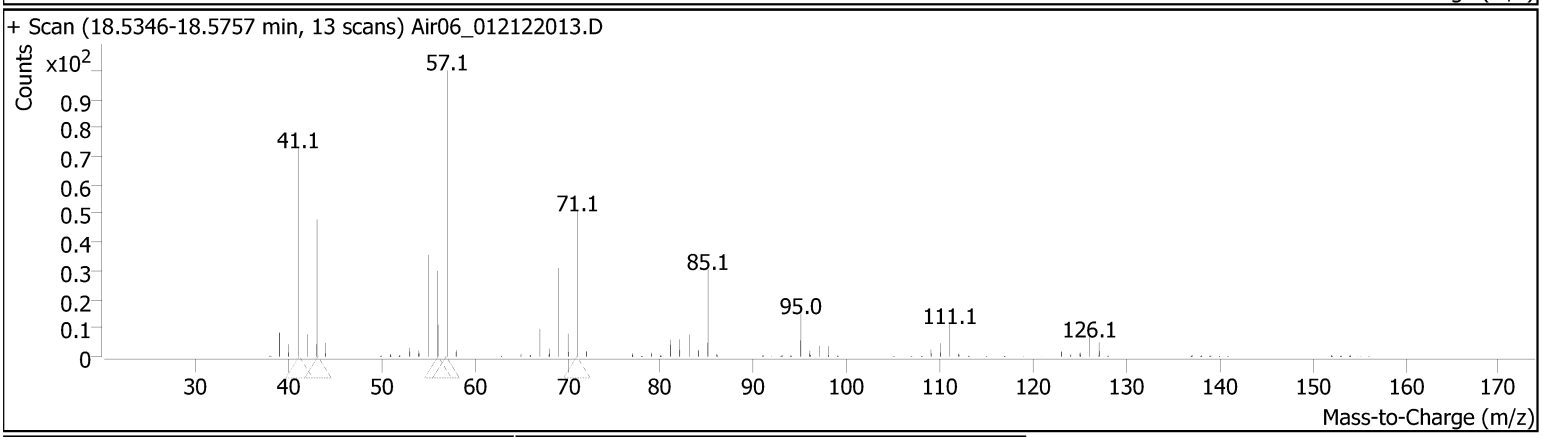



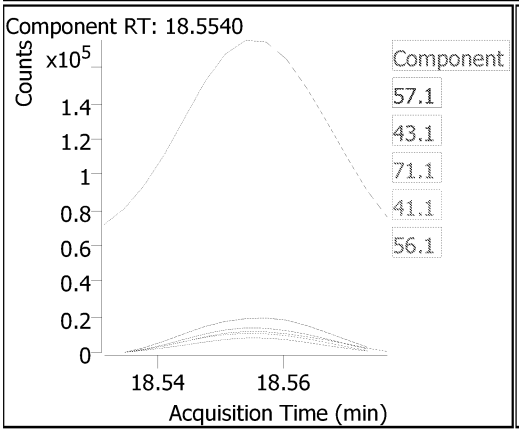



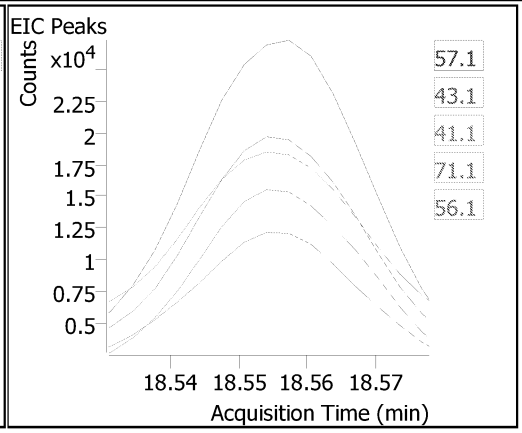
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.5540 | Decane, 3-methyl- | 154946.8 | 92.4 | 13151-34-3 | C11H24 | 0.3242 |

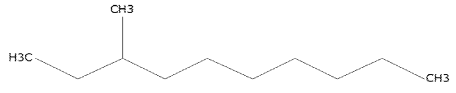


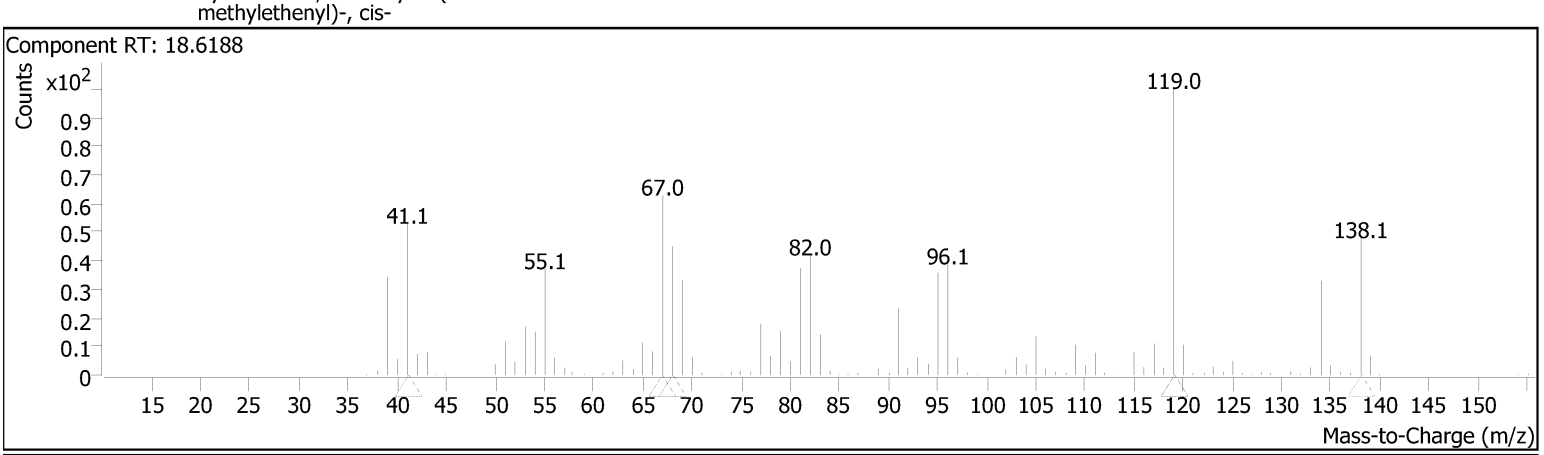



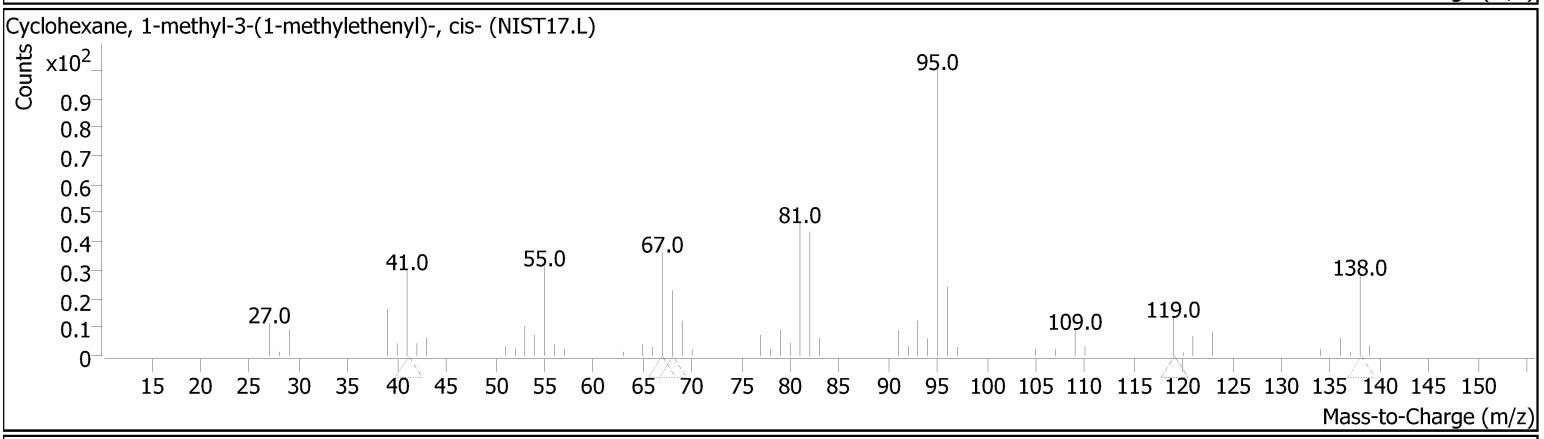



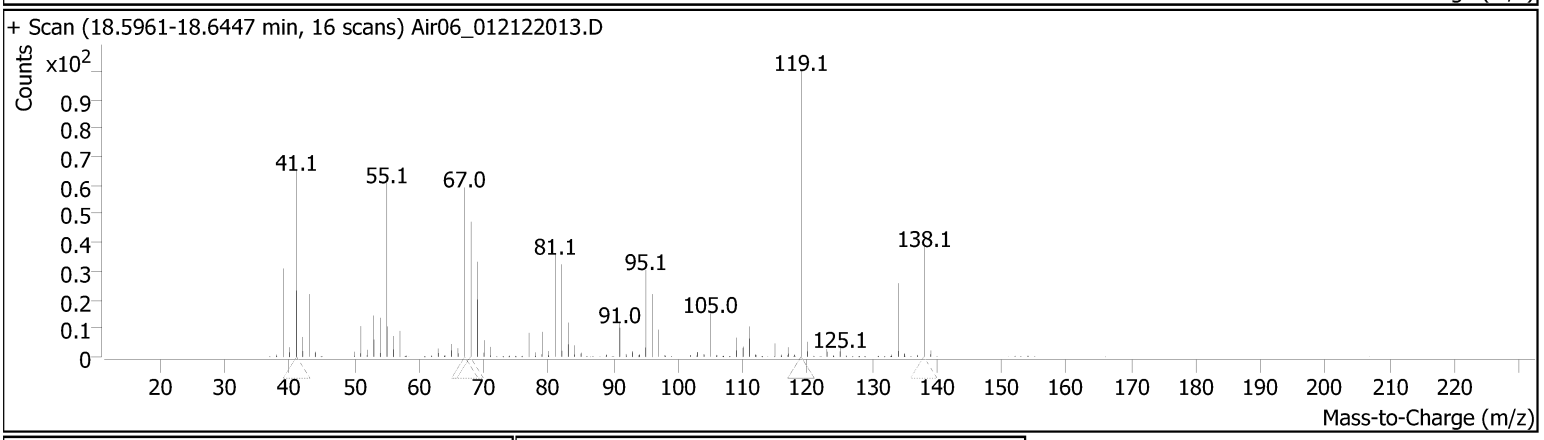
# Library Search Results - NonTarget Hits with Details

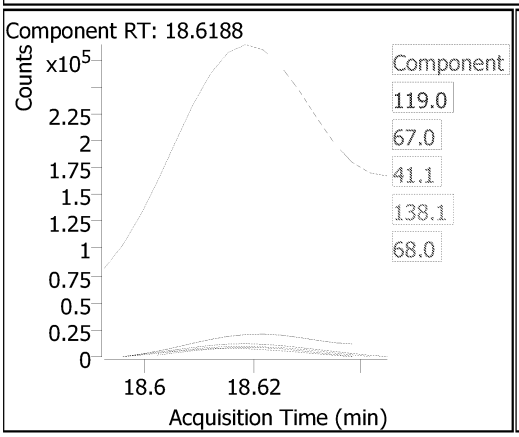
Agilent Technologies

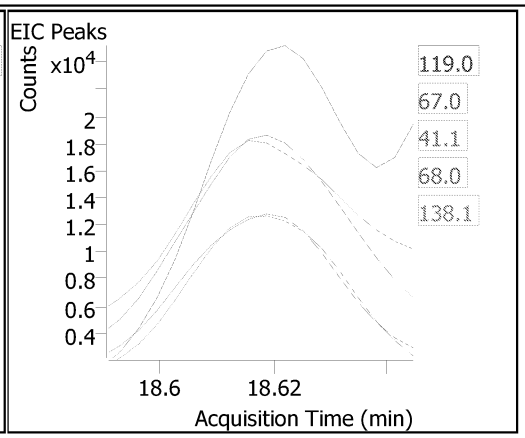
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.6188 | Cyclohexane, 1-methyl-3-(1-methylethenyl)-, cis- | 419731.6 | 80.0 | 24399-15-3 | C10H18 | 0.8783 |

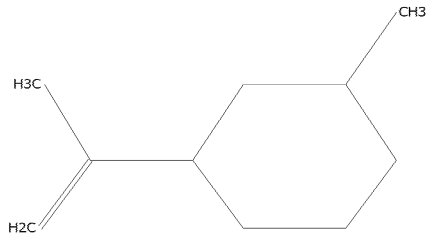


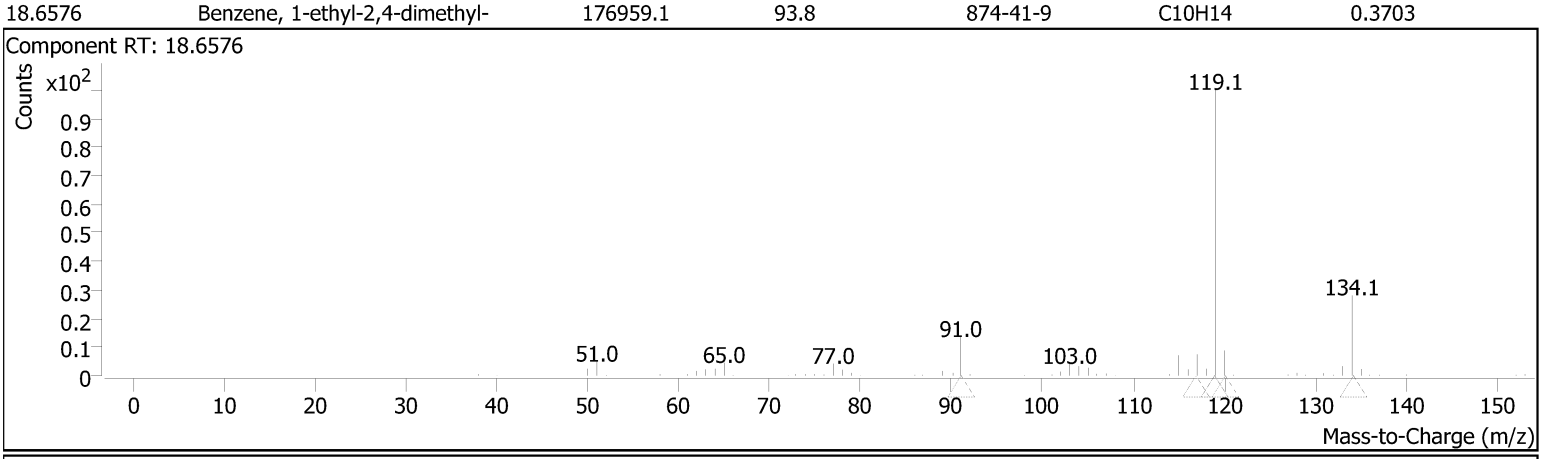



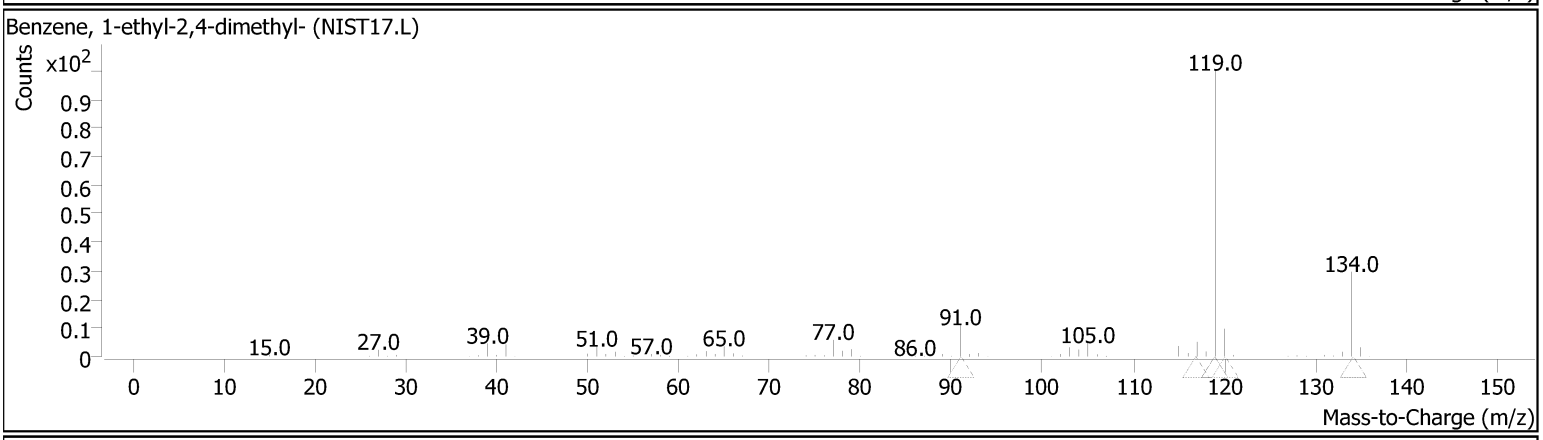



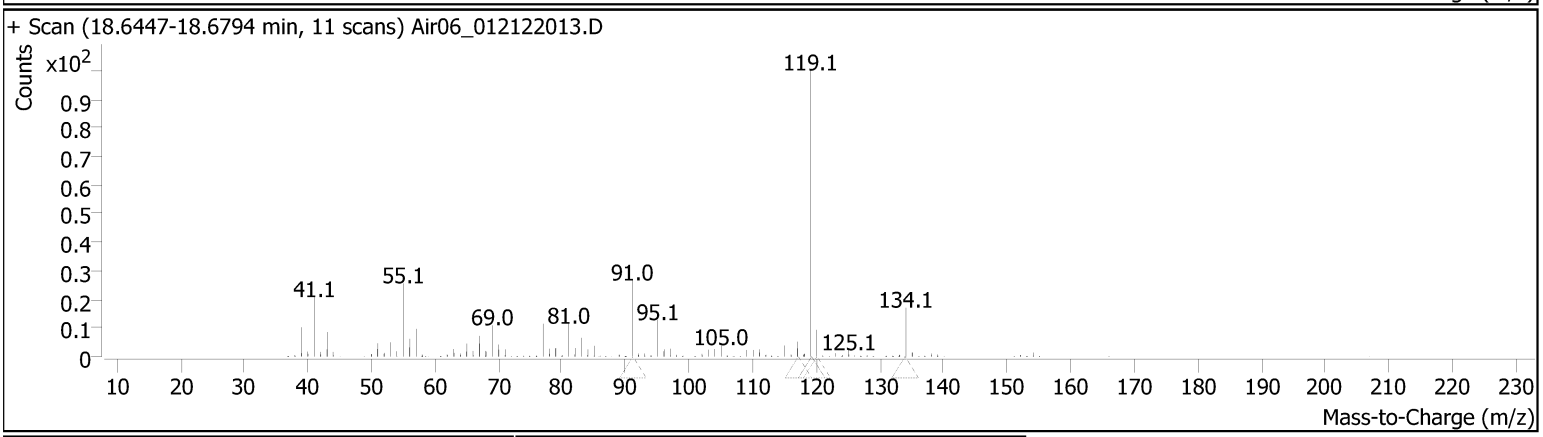



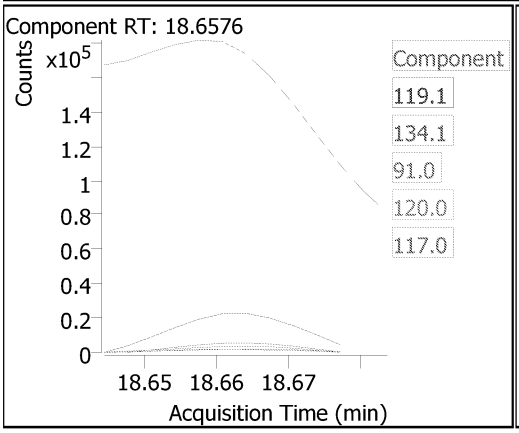



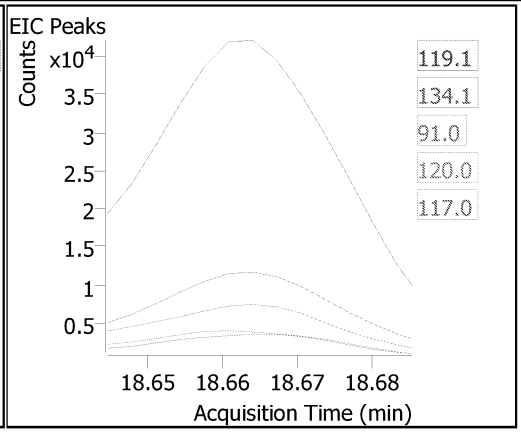
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.6576 | Benzene, 1-ethyl-2,4-dimethyl- | 176959.1 | 93.8 | 874-41-9 | C10H14 | 0.3703 |

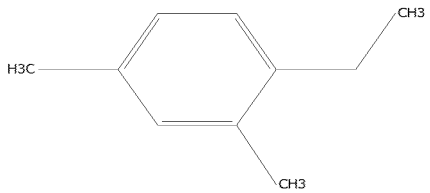


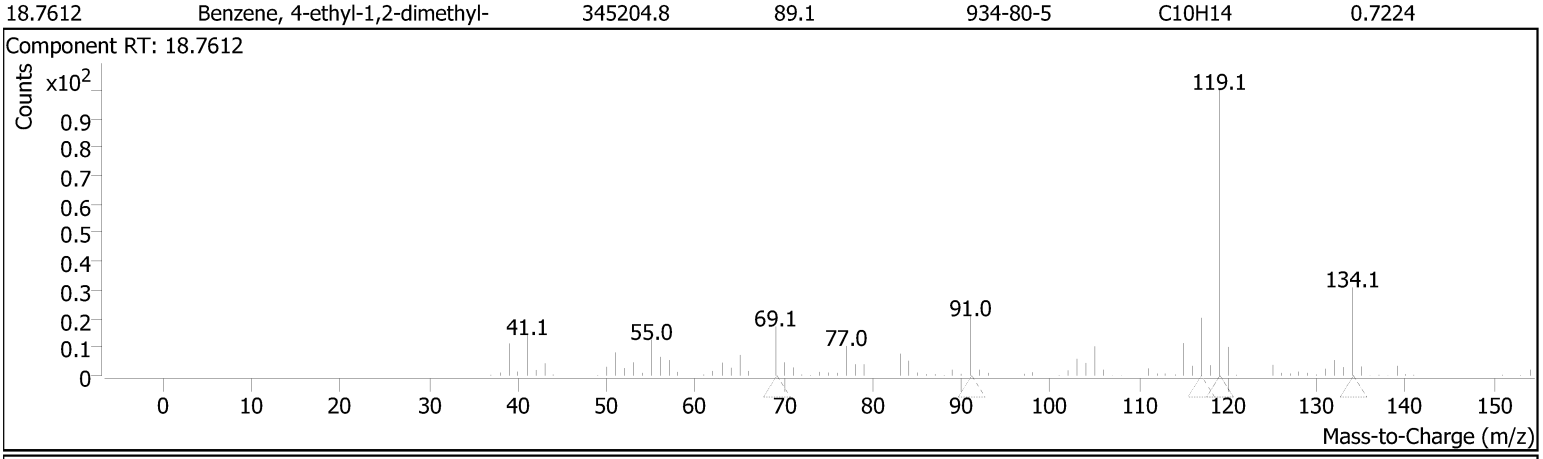



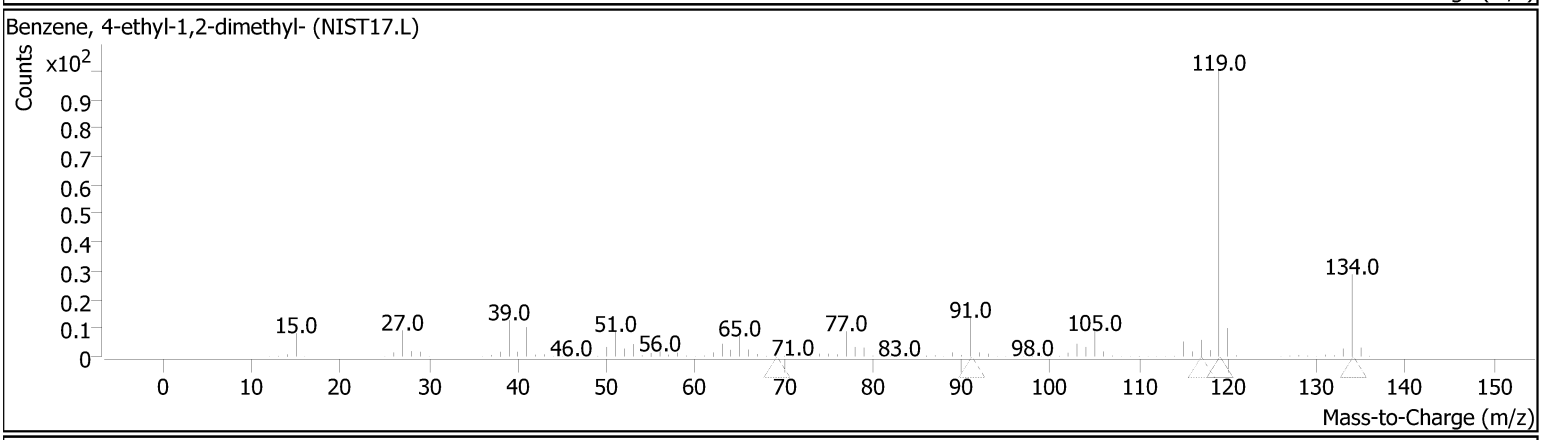



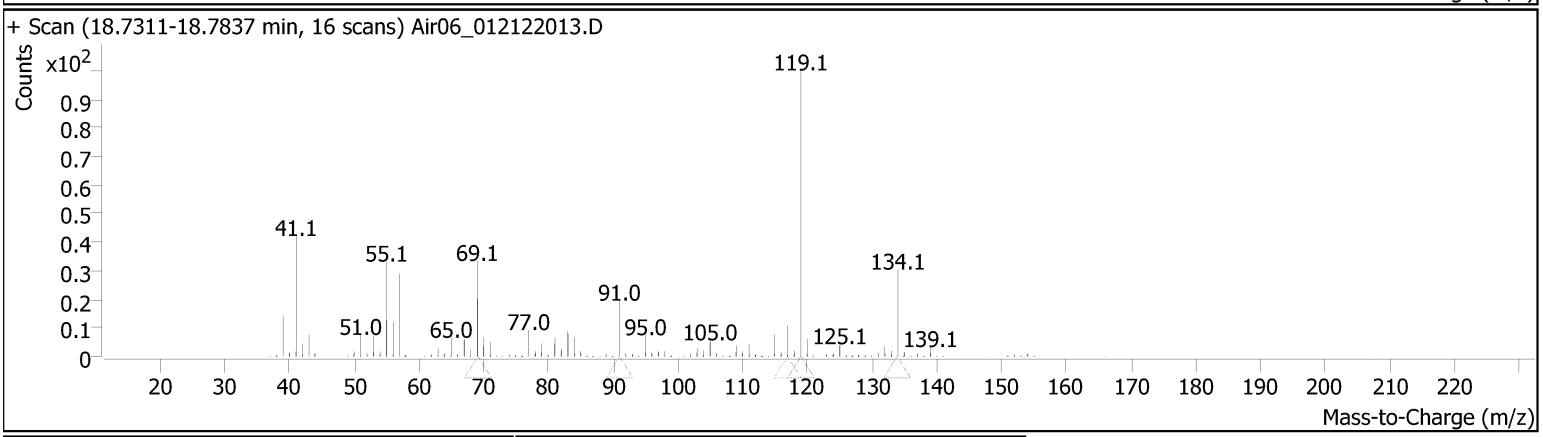



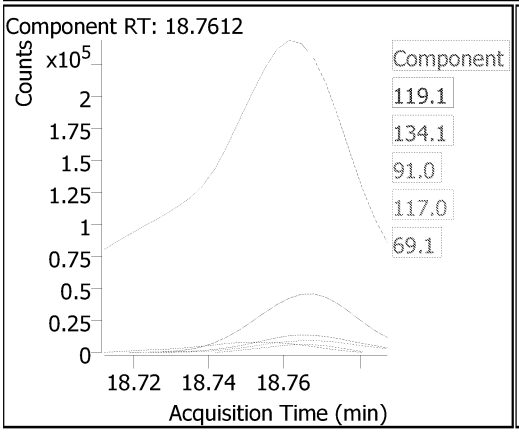



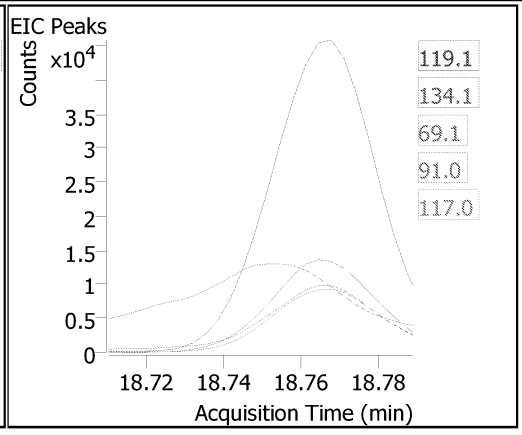
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.7612 | Benzene, 4-ethyl-1,2-dimethyl- | 345204.8 | 89.1 | 934-80-5 | C10H14 | 0.7224 |

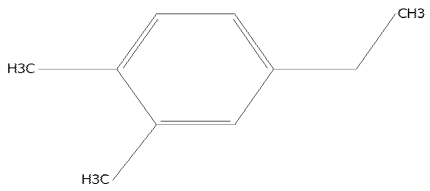


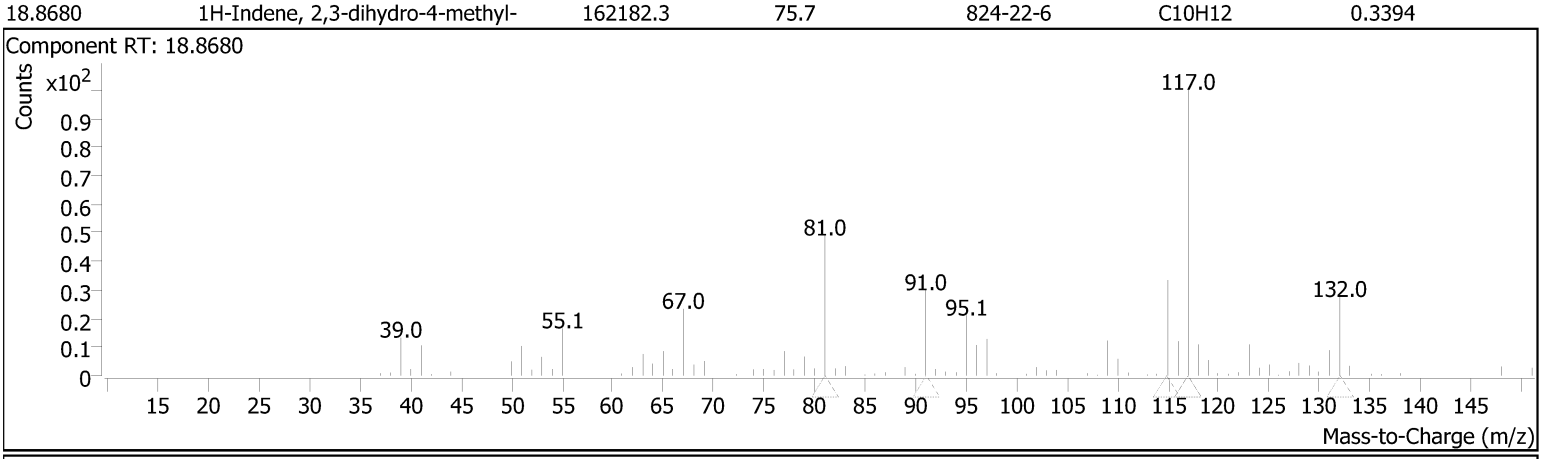



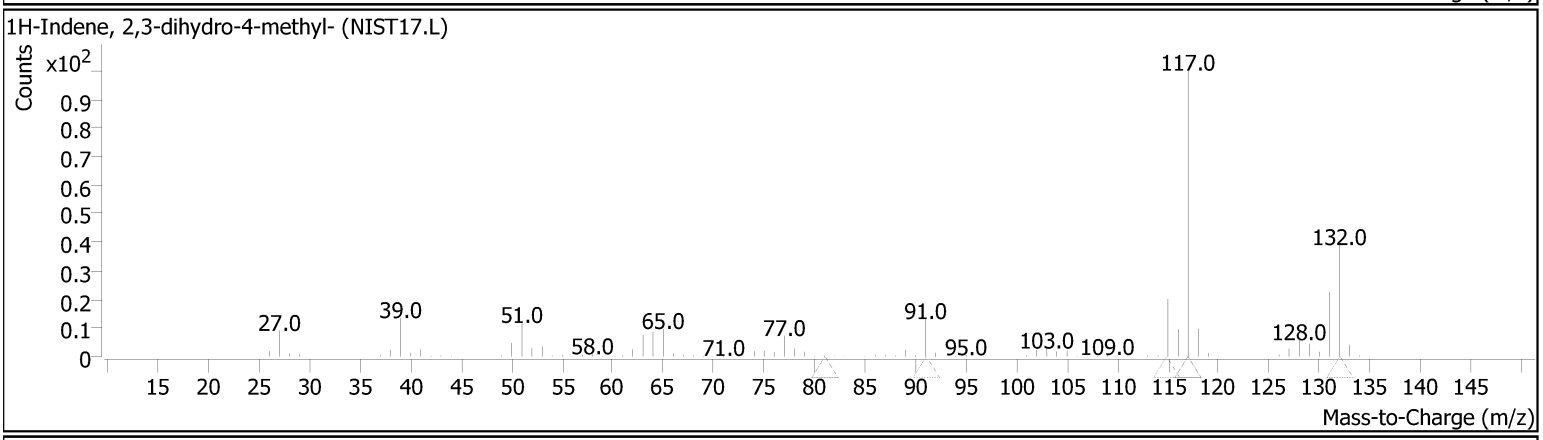



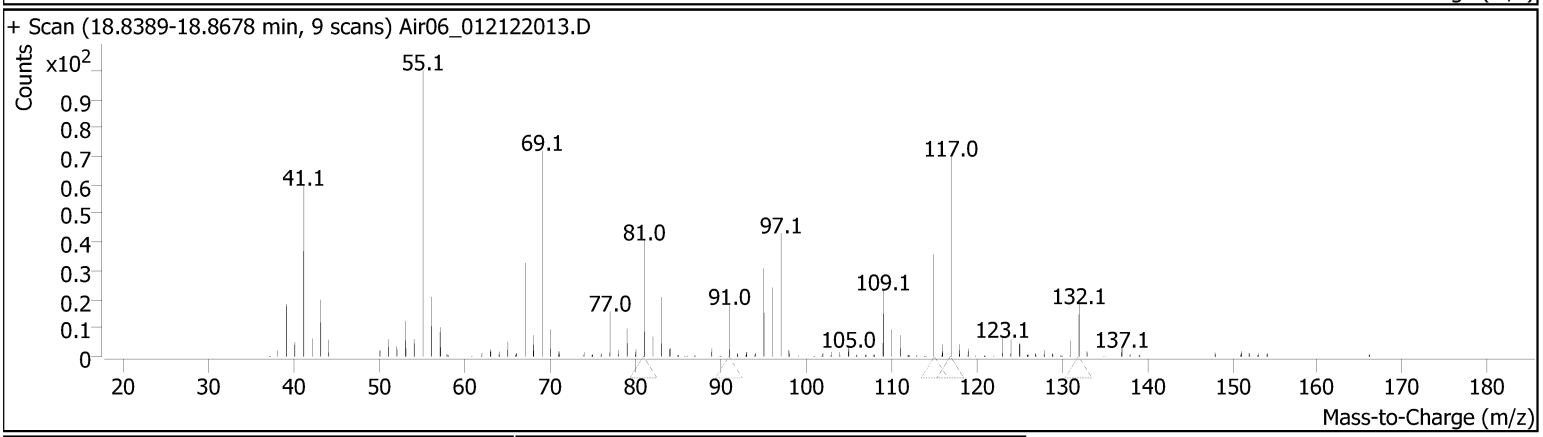



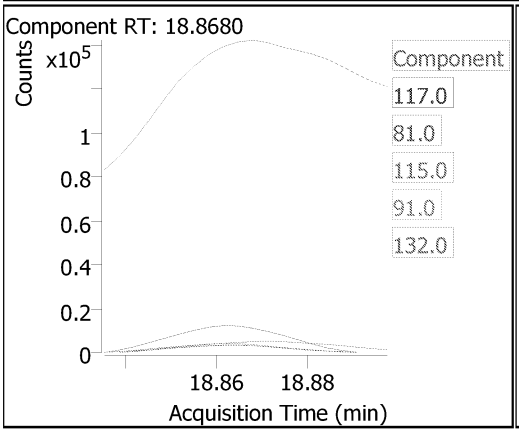



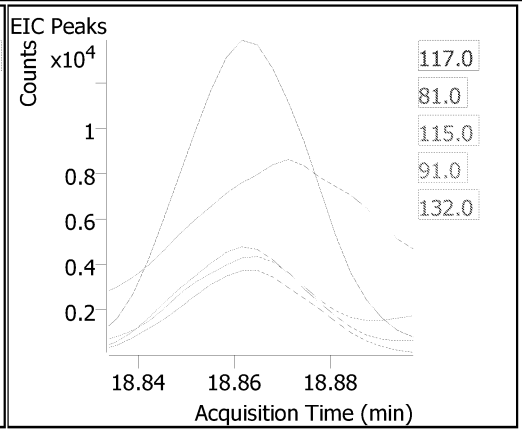
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.8680 | 1H-Indene, 2,3-dihydro-4-methyl- | 162182.3 | 75.7 | 824-22-6 | C10H12 | 0.3394 |

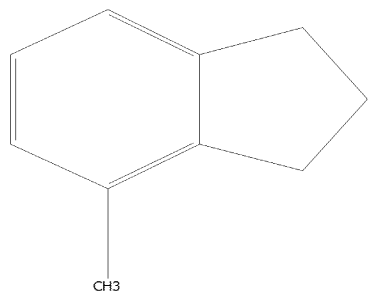


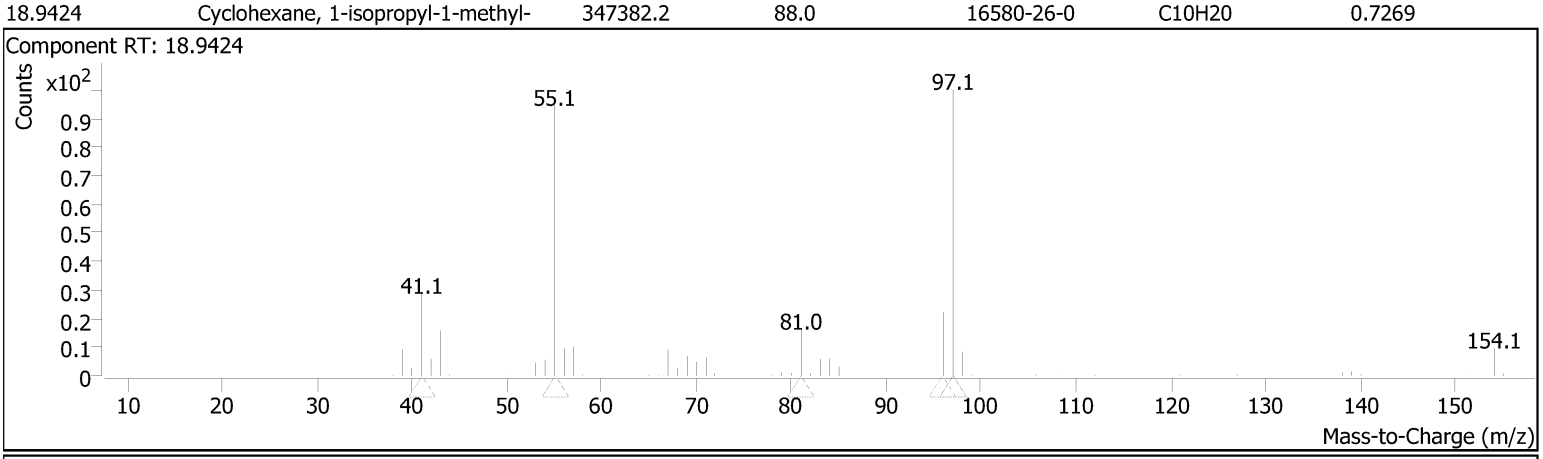



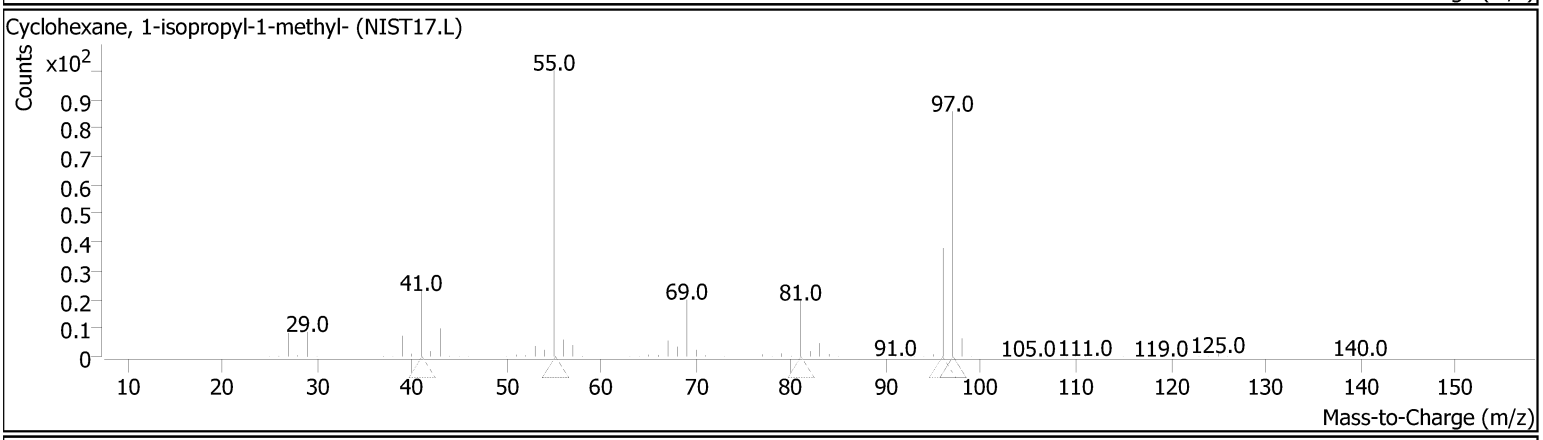



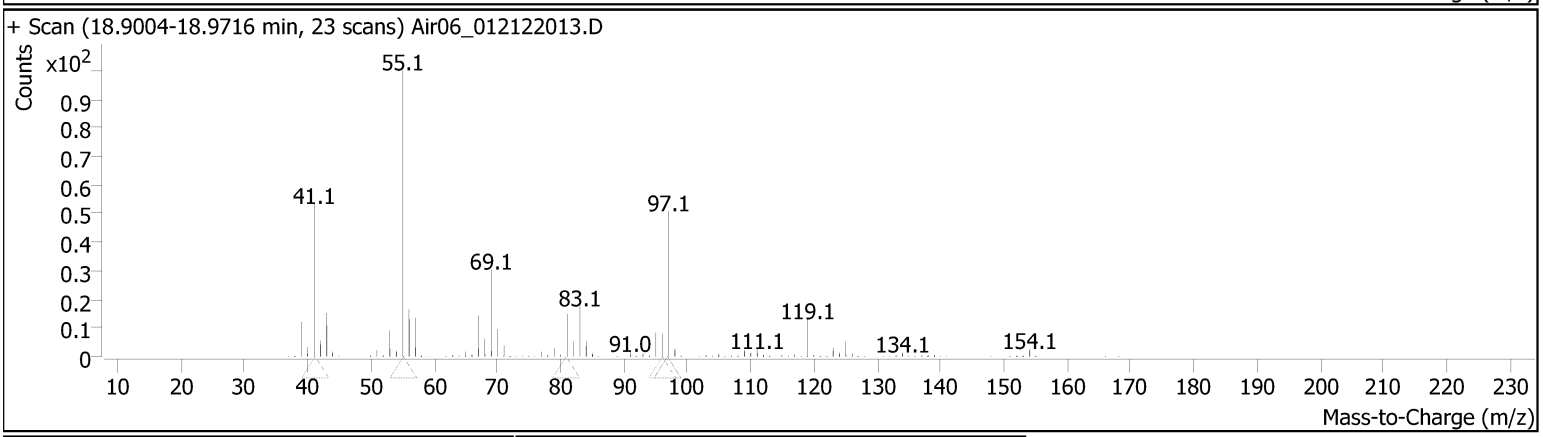



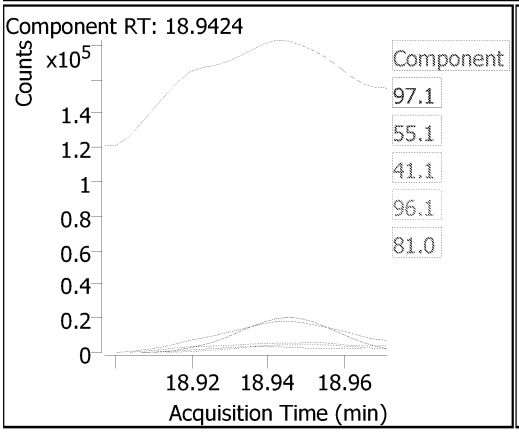



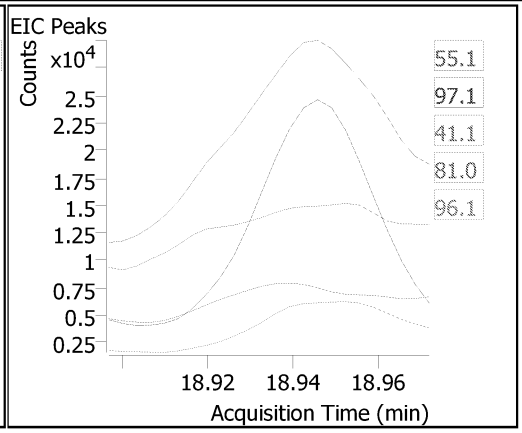
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.9424 | Cyclohexane, 1-isopropyl-1-methyl- | 347382.2 | 88.0 | 16580-26-0 | C10H20 | 0.7269 |

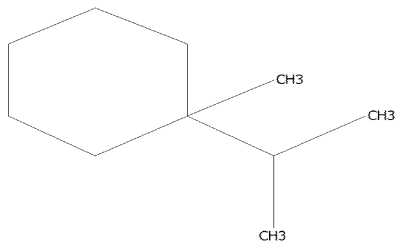


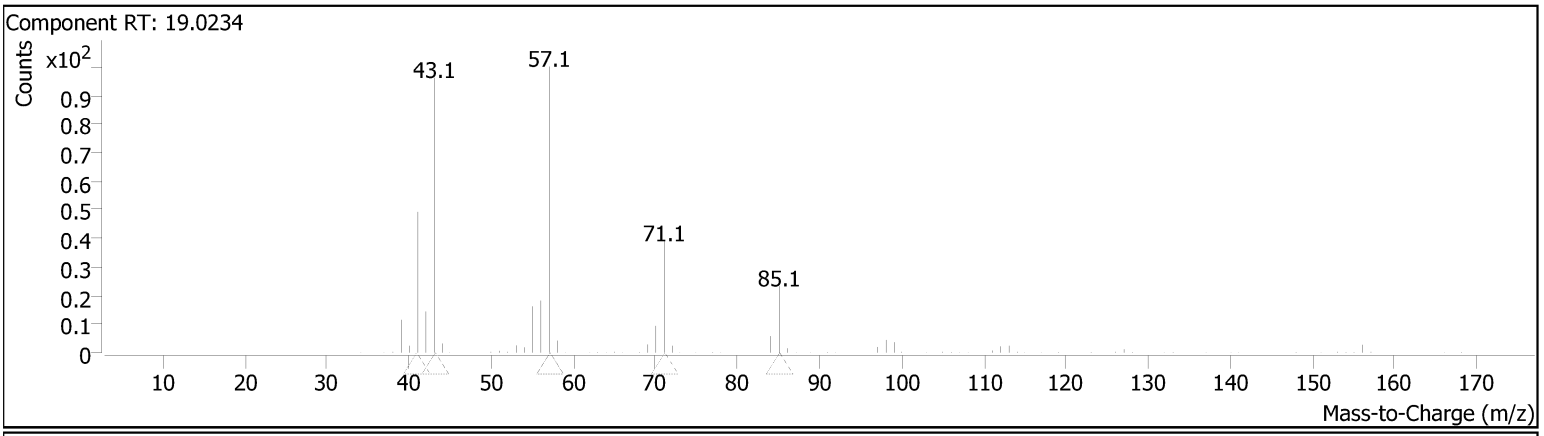



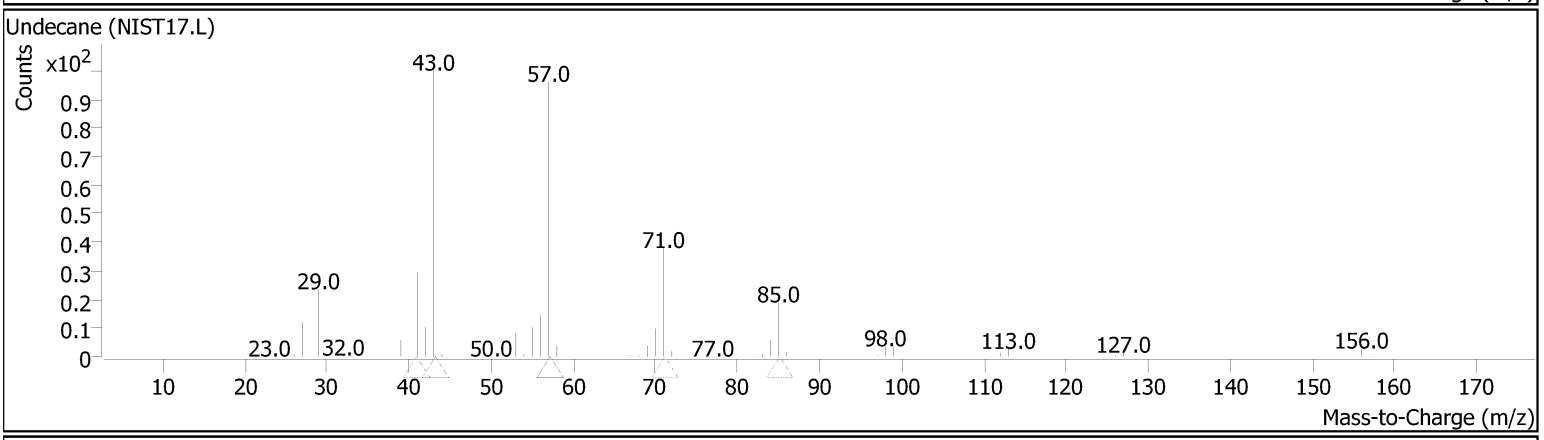



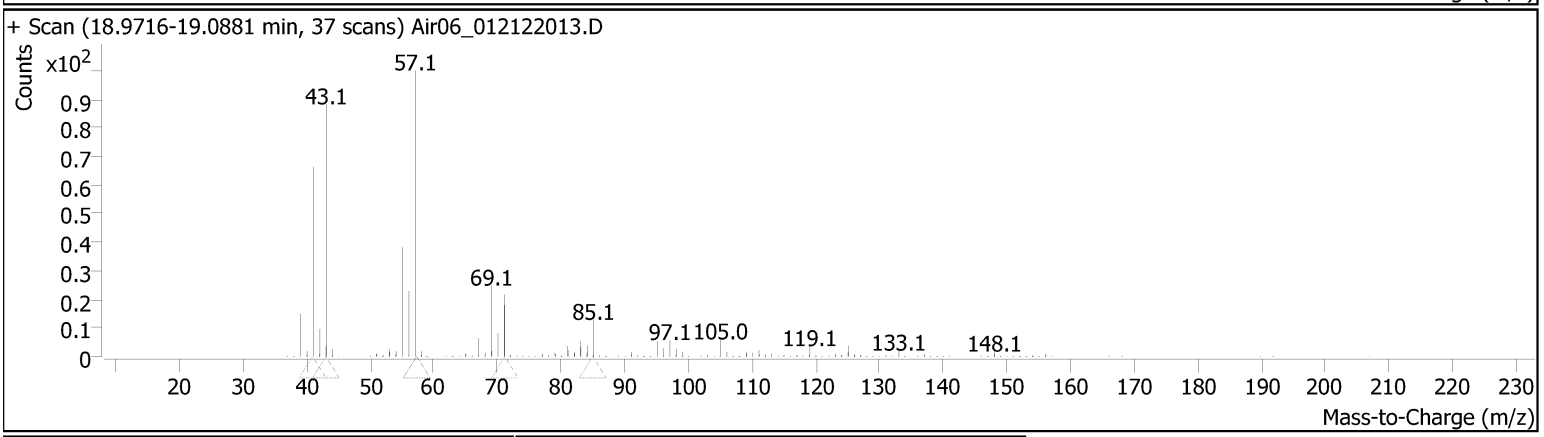



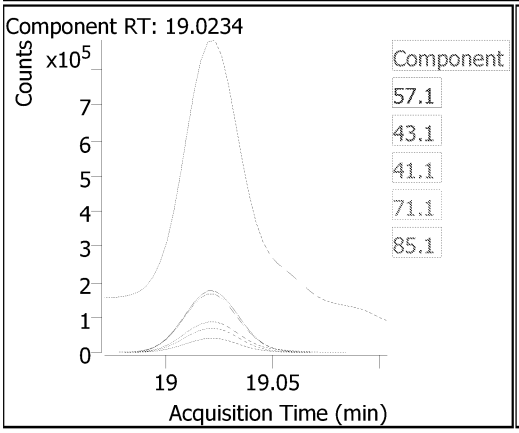



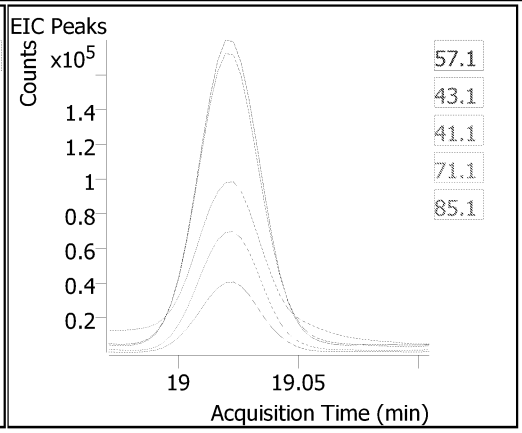
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.0234 | Undecane | 1930130.4 | 96.2 | 1120-21-4 | C11H24 | 4.039 |



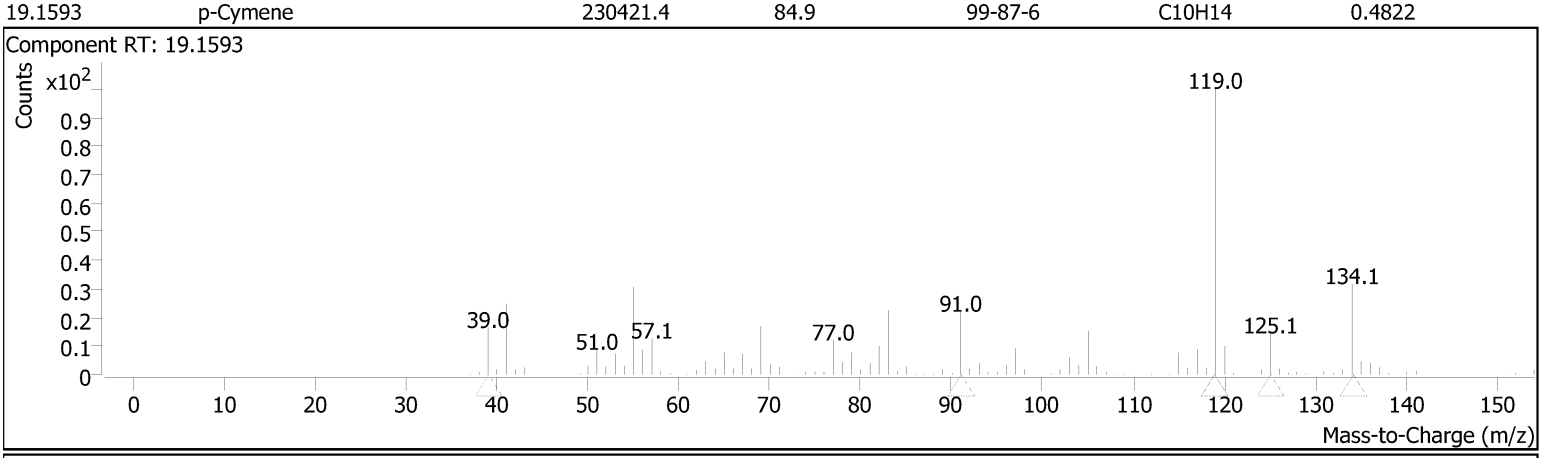



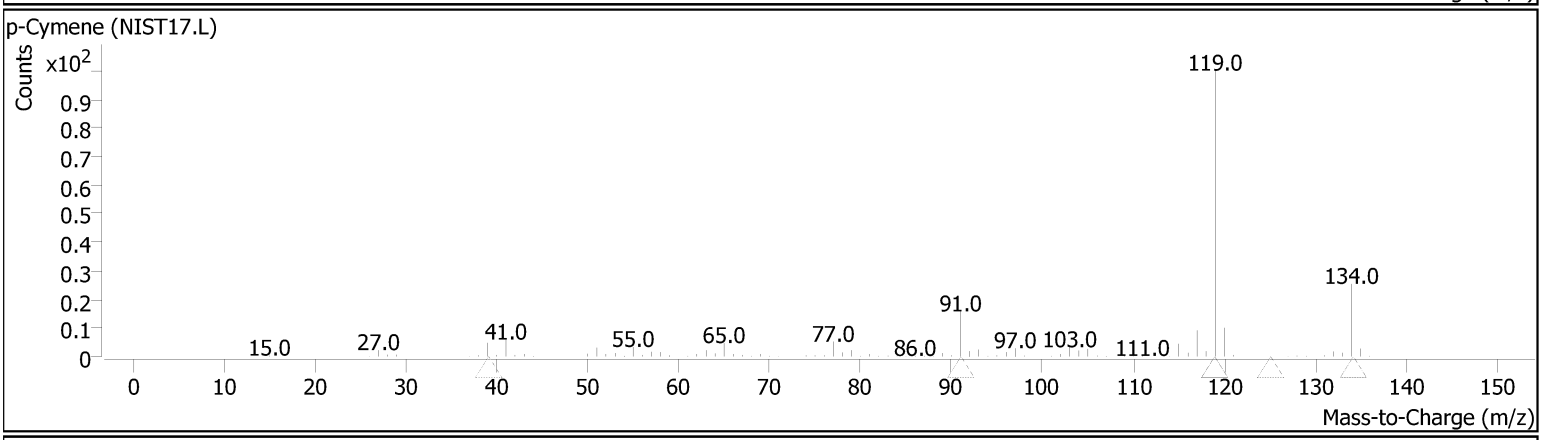



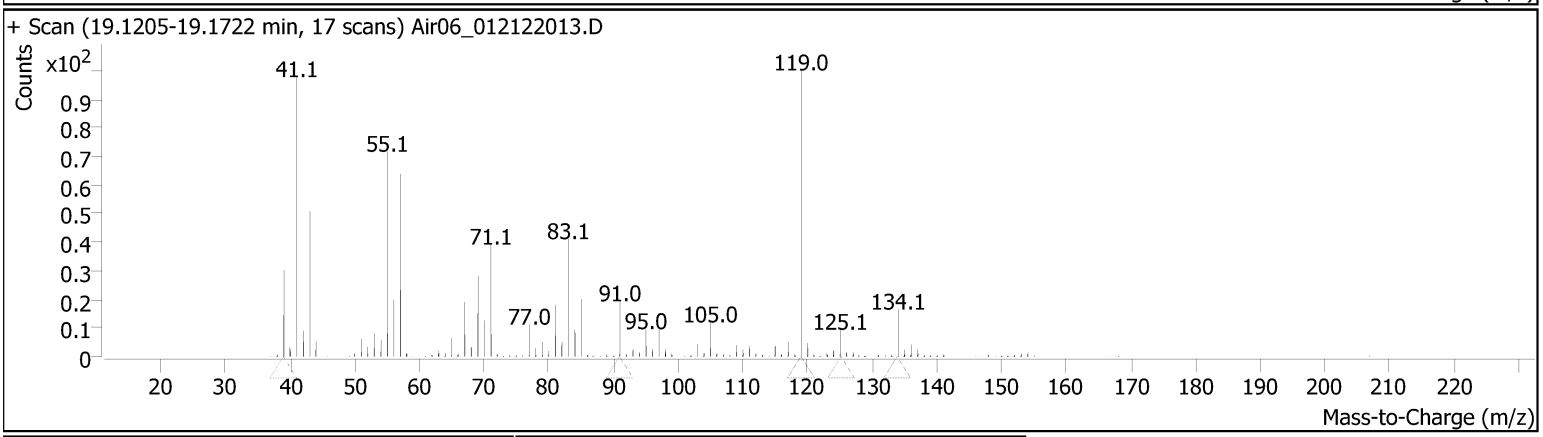



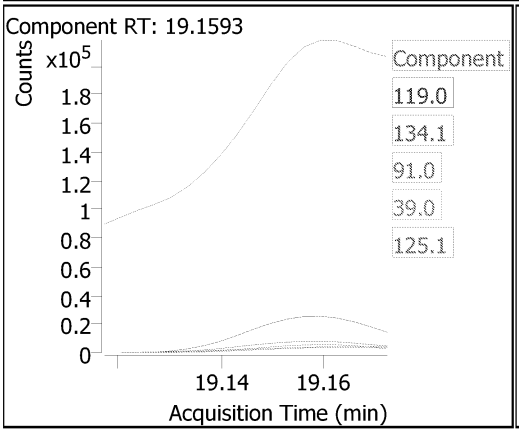


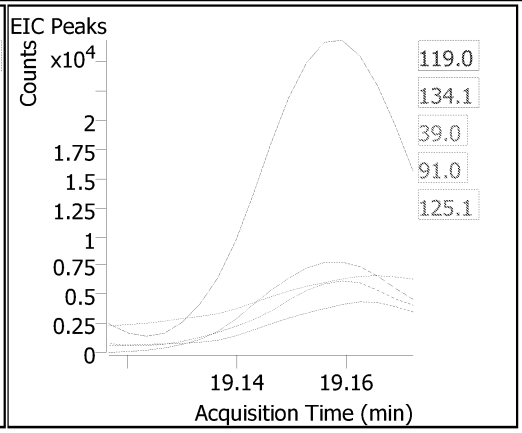

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.1593 | p-Cymene | 230421.4 | 84.9 | 99-87-6 | C10H14 | 0.4822 |

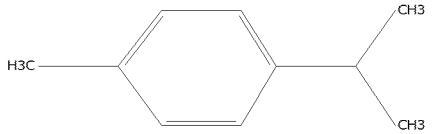


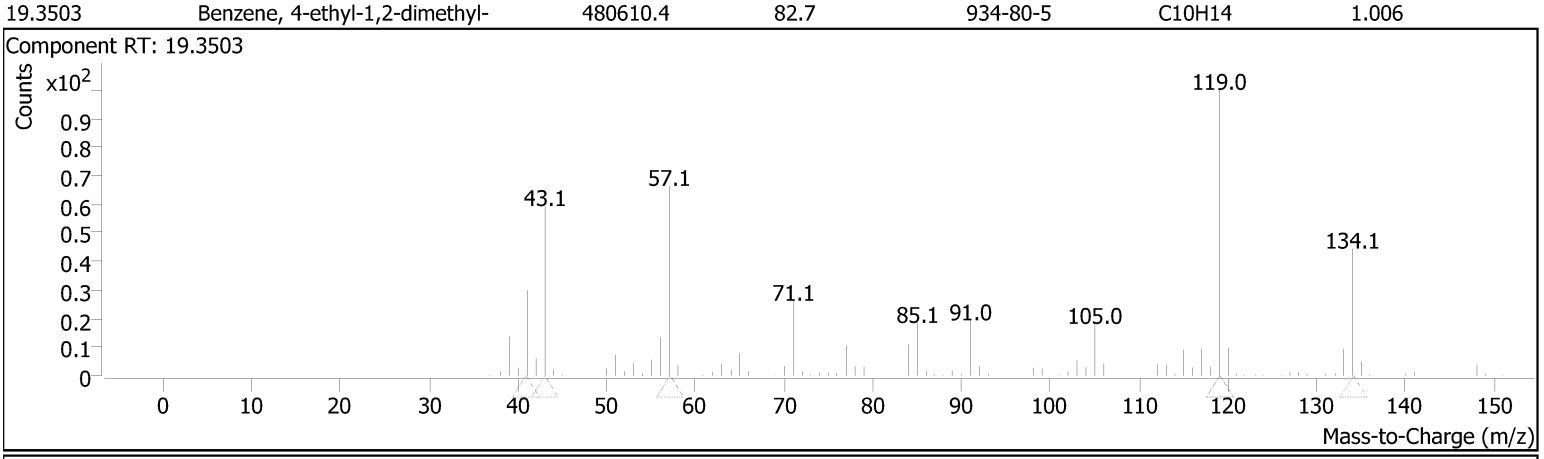



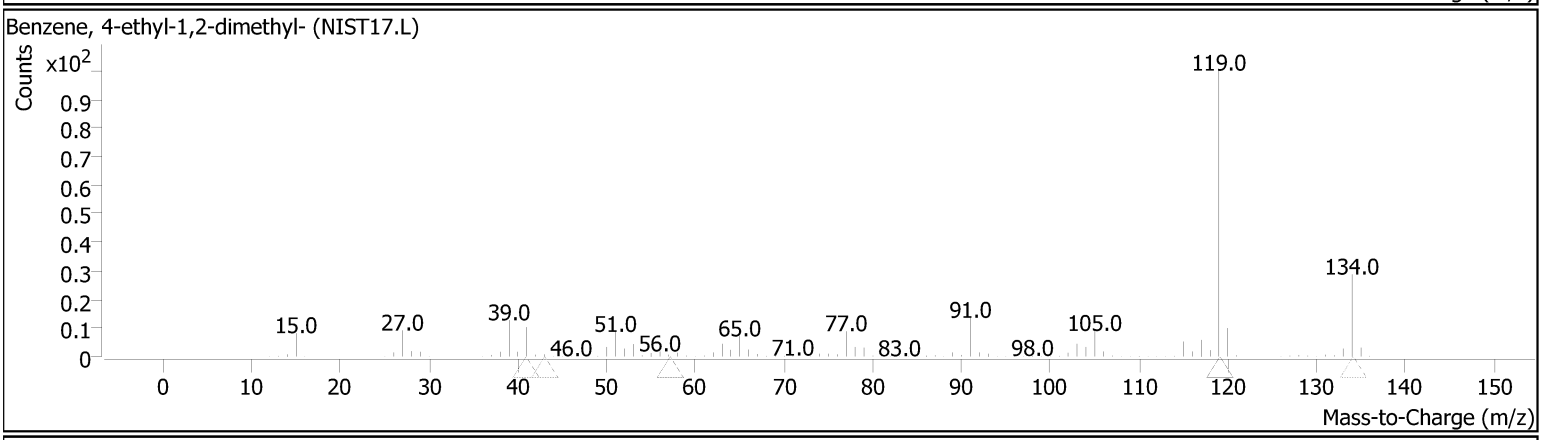



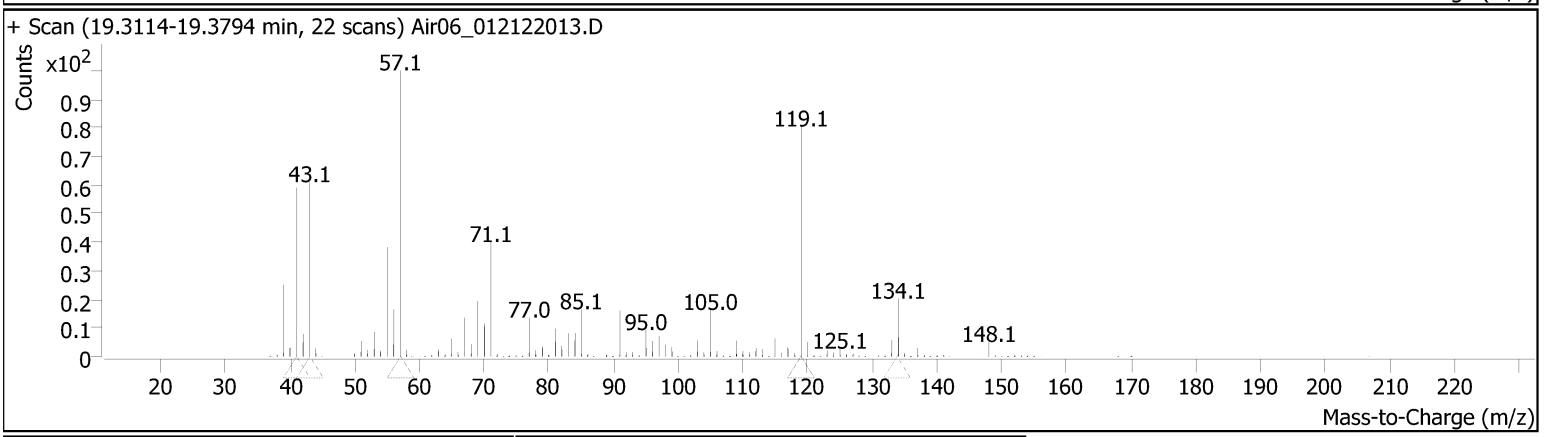
# Library Search Results - NonTarget Hits with Details

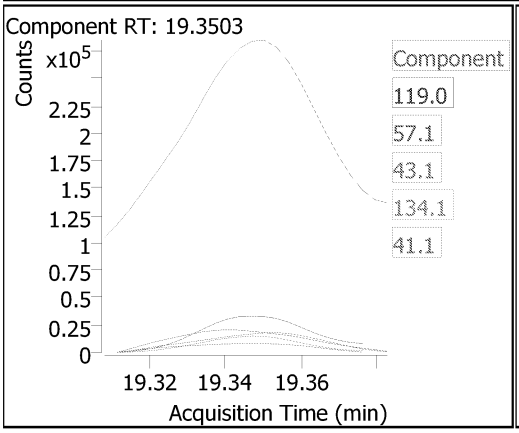
Agilent Technologies

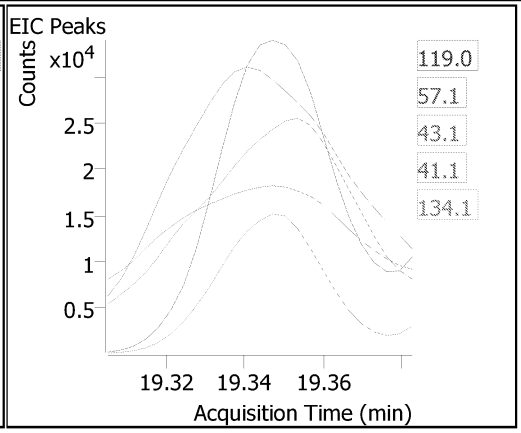
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.3503 | Benzene, 4-ethyl-1,2-dimethyl- | 480610.4 | 82.7 | 934-80-5 | C10H14 | 1.006 |

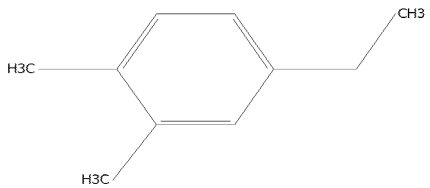


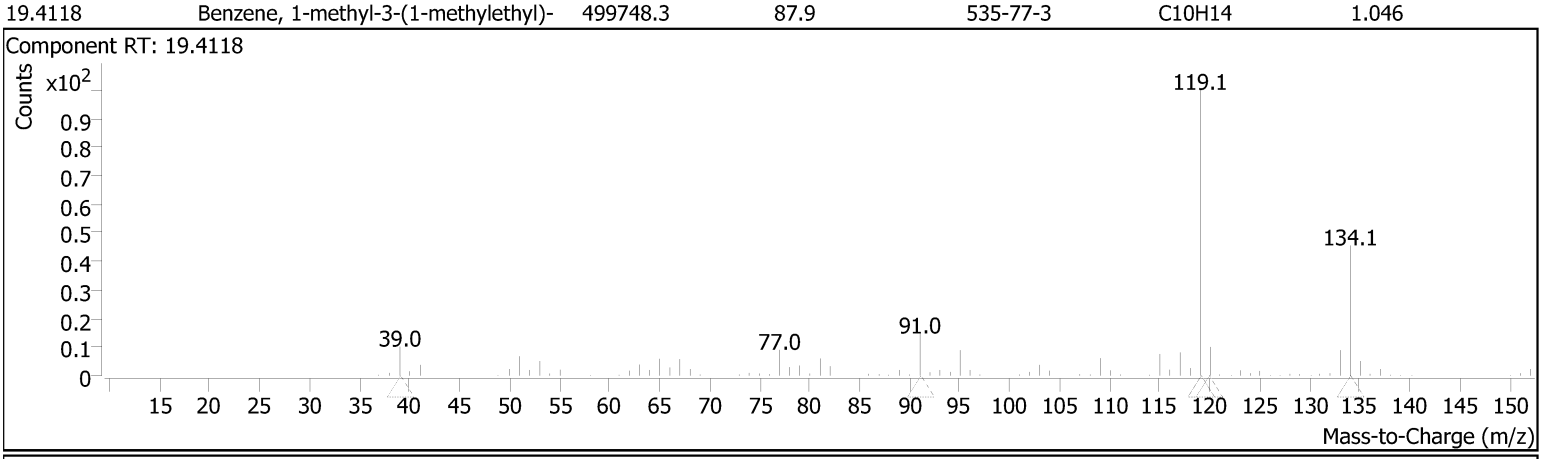



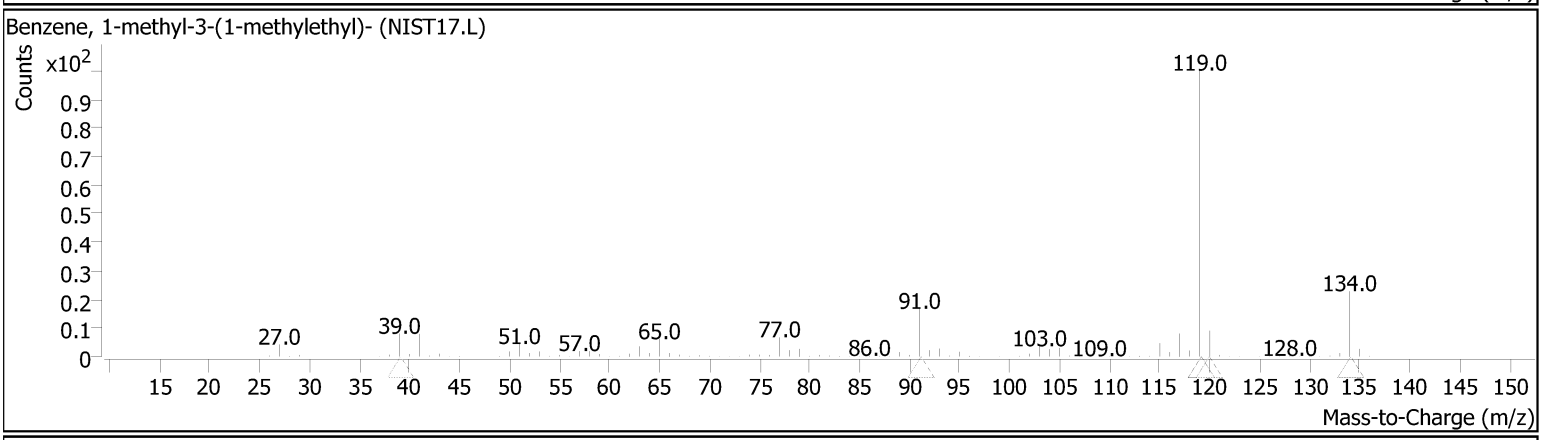



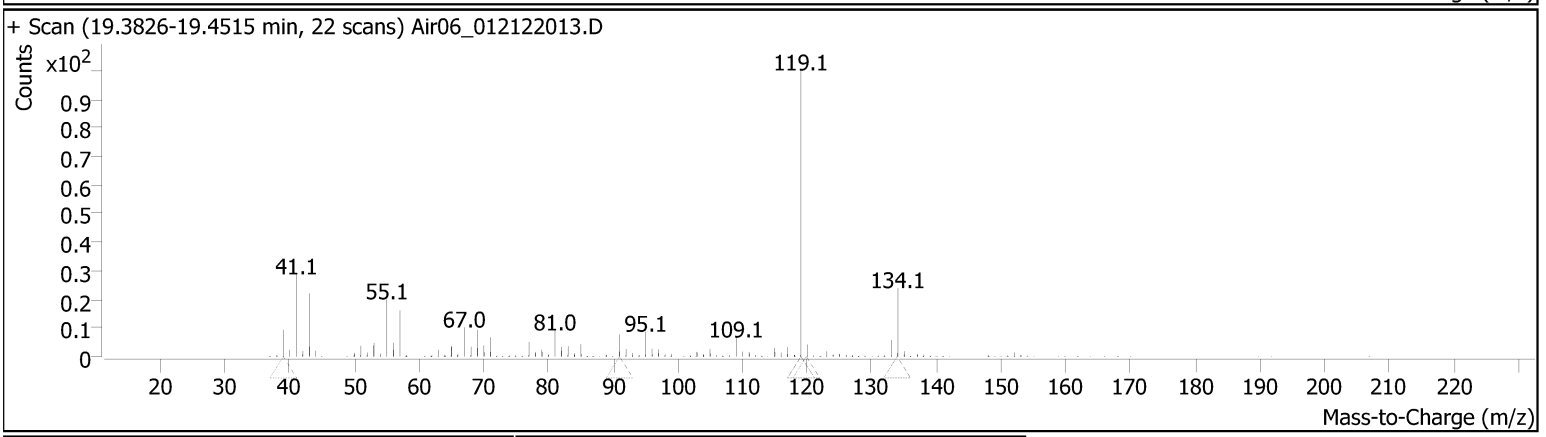



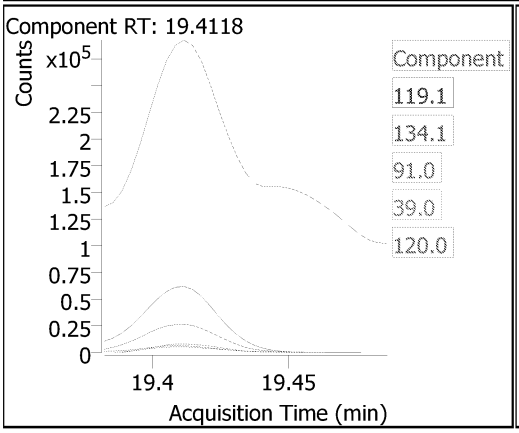



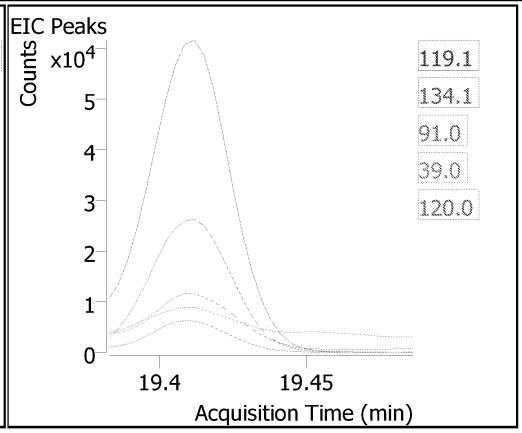
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.4118 | Benzene, 1-methyl-3-(1-methylethyl)- | 499748.3 | 87.9 | 535-77-3 | C10H14 | 1.046 |

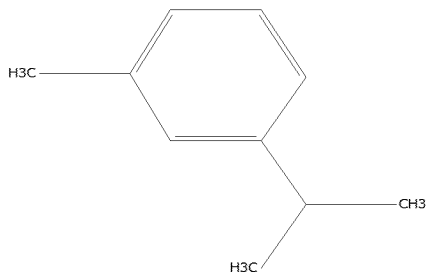


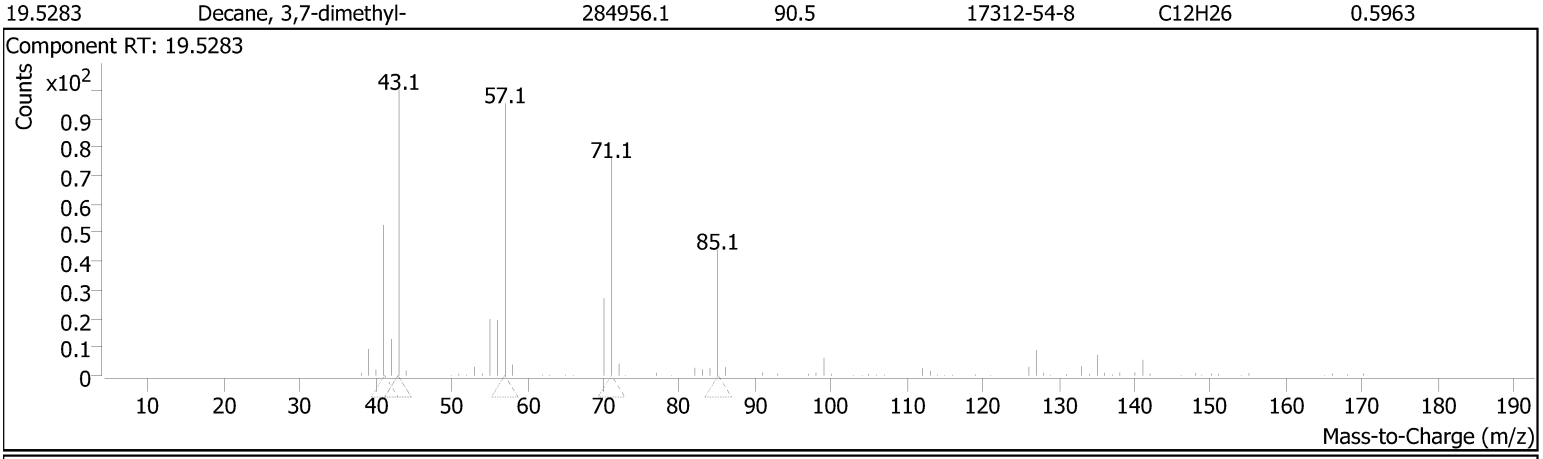



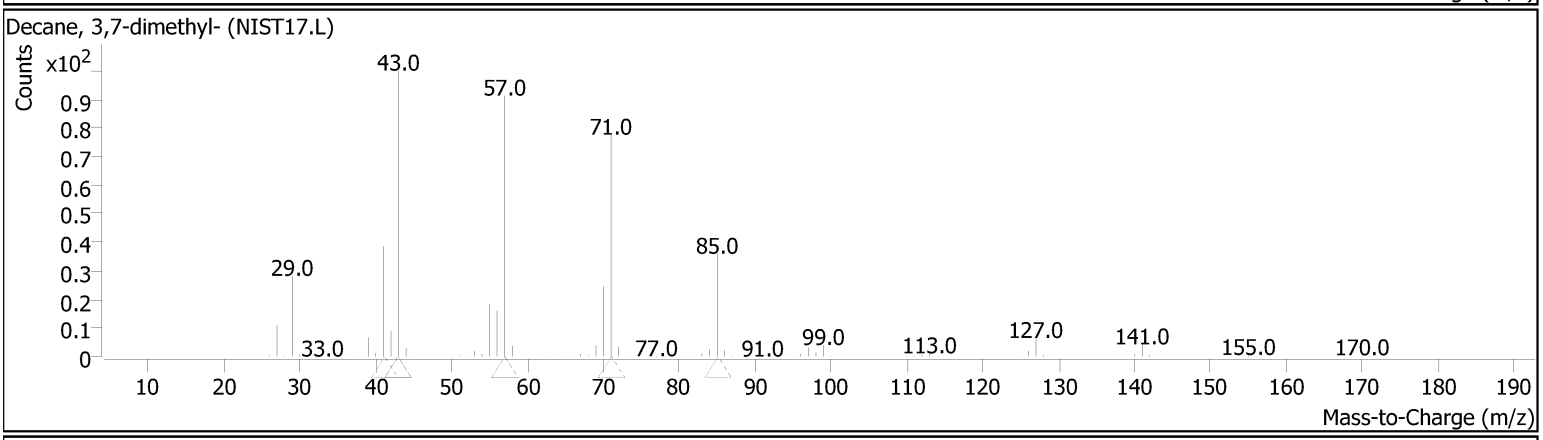



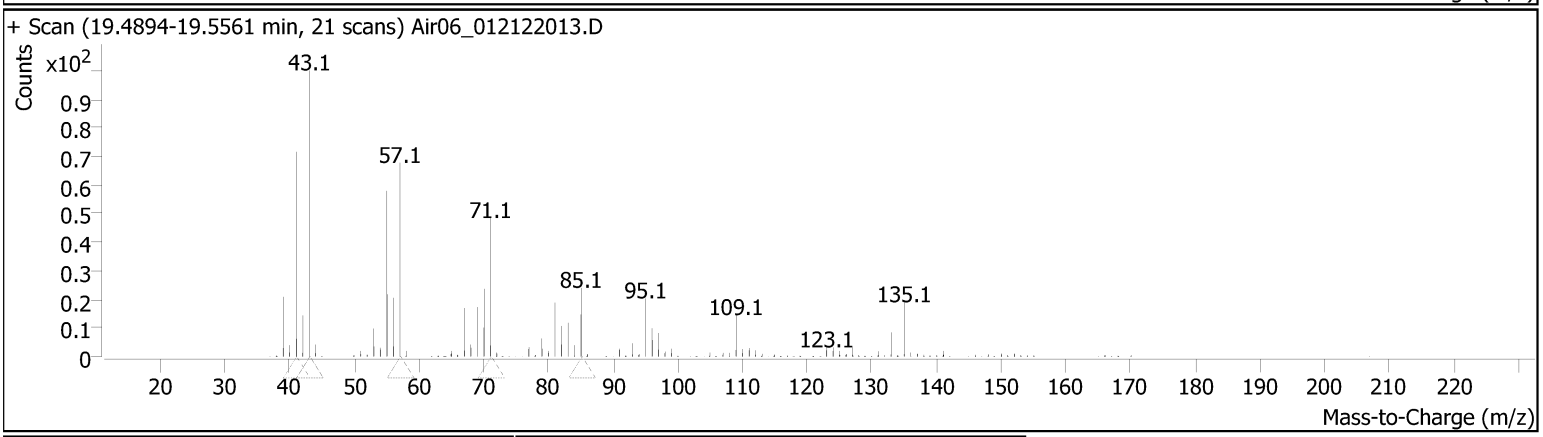



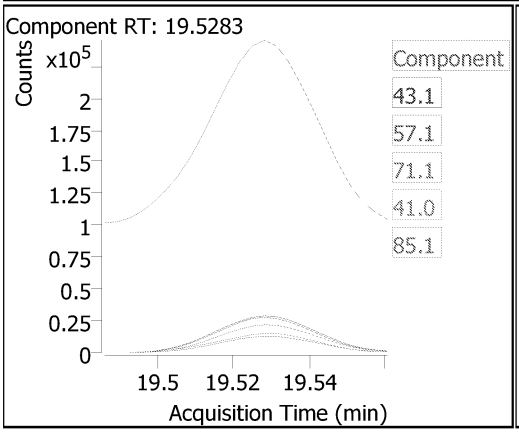



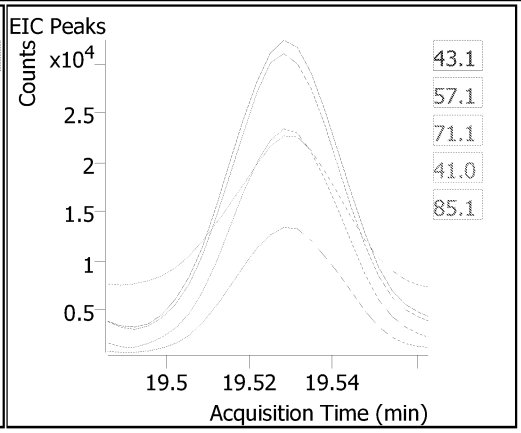
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5283 | Decane, 3,7-dimethyl- | 284956.1 | 90.5 | 17312-54-8 | C12H26 | 0.5963 |

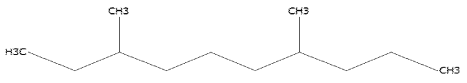


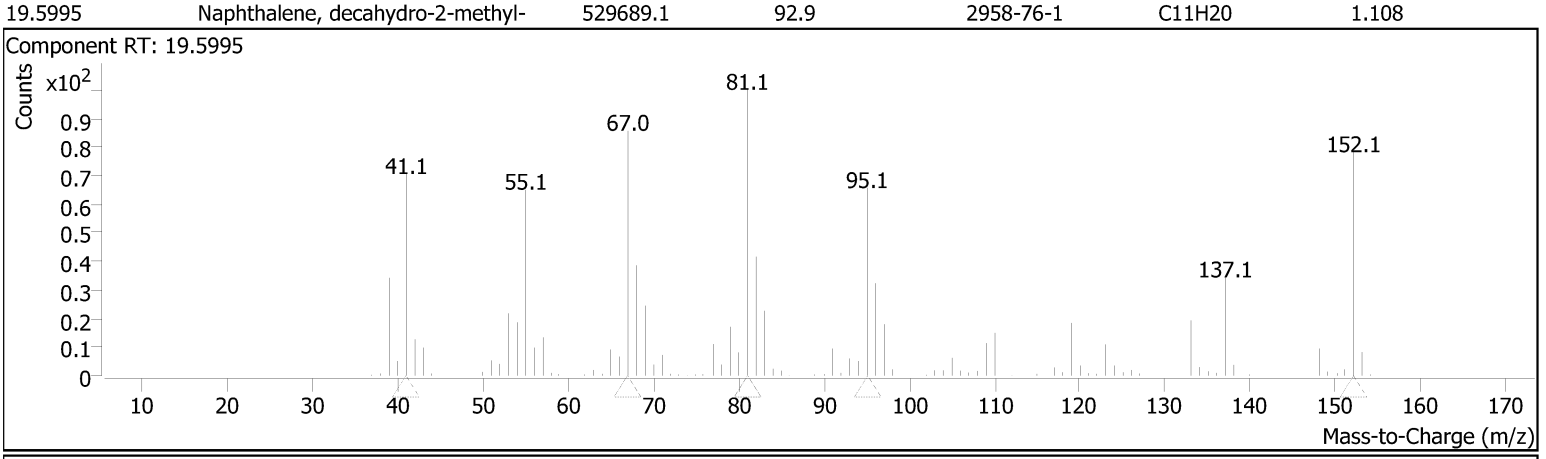



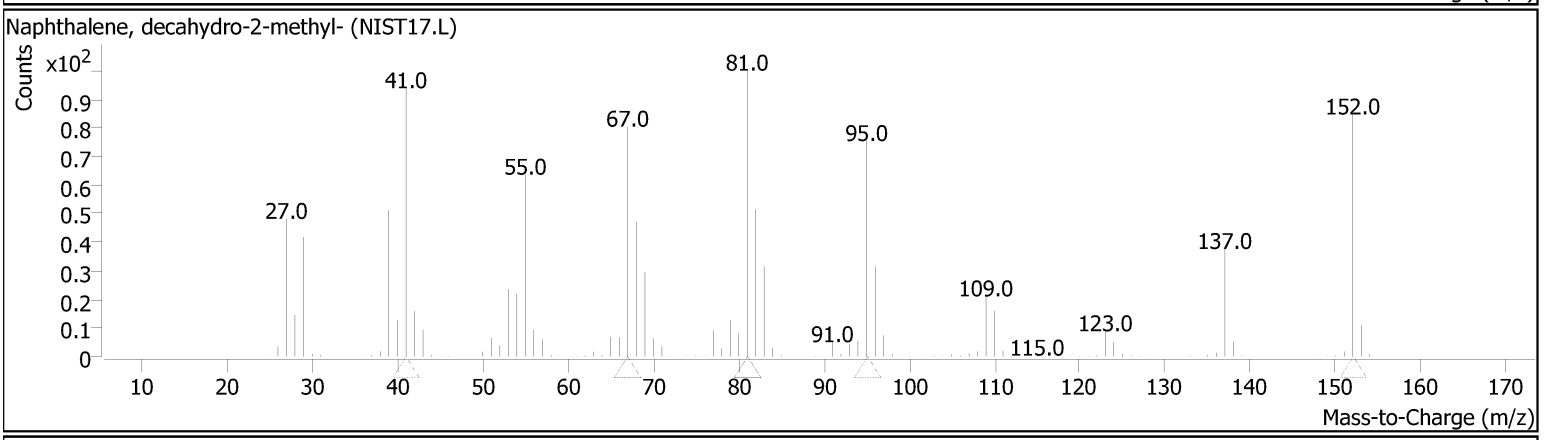



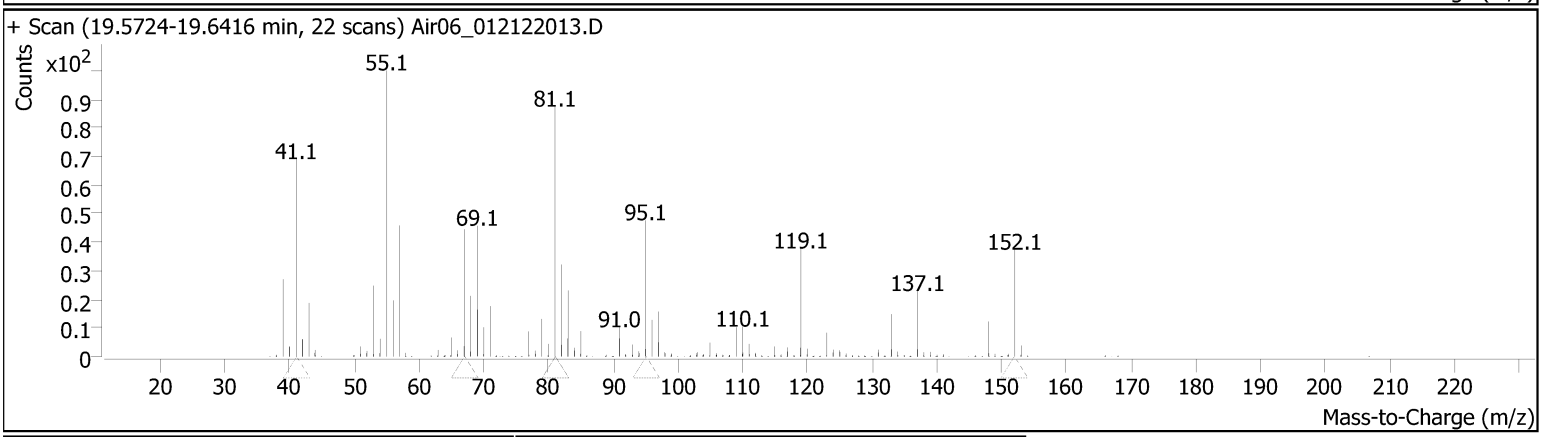
# Library Search Results - NonTarget Hits with Details

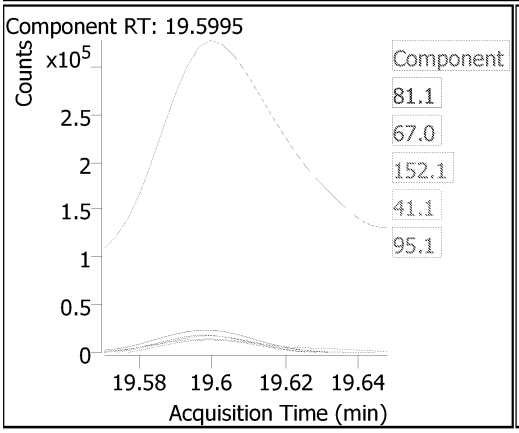
Agilent Technologies

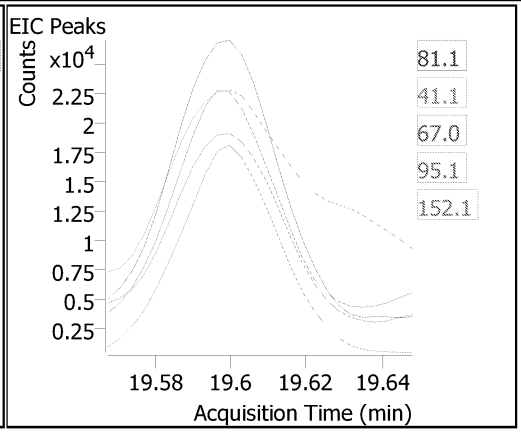
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5995 | Naphthalene, decahydro-2-methyl- | 529689.1 | 92.9 | 2958-76-1 | C11H20 | 1.108 |

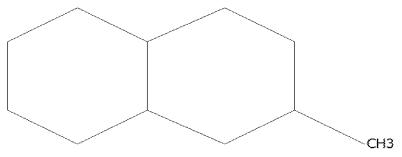


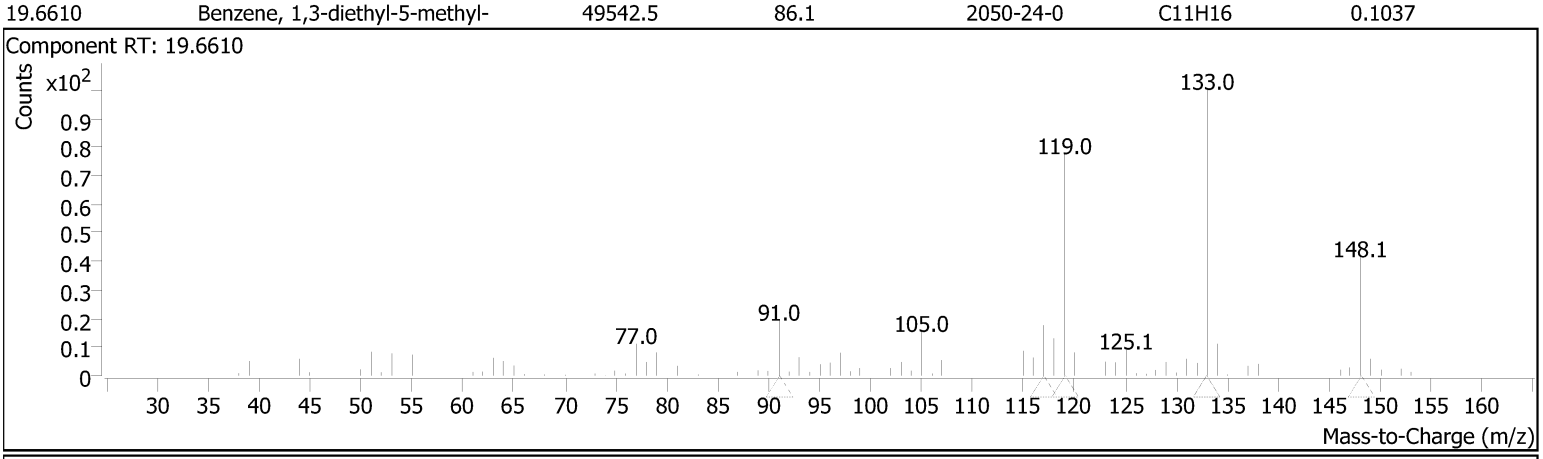



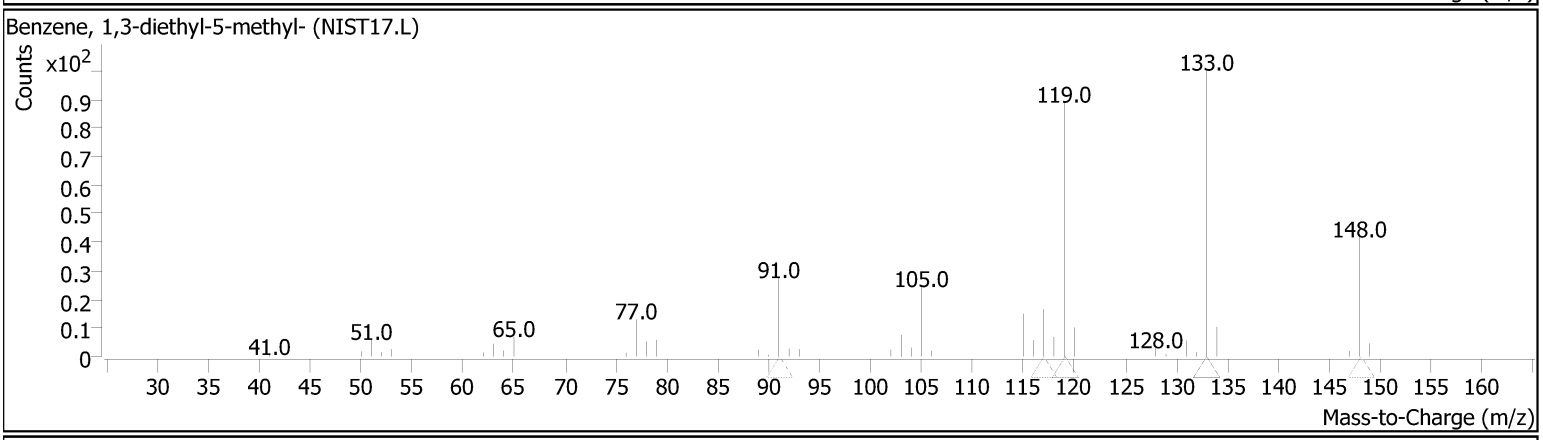



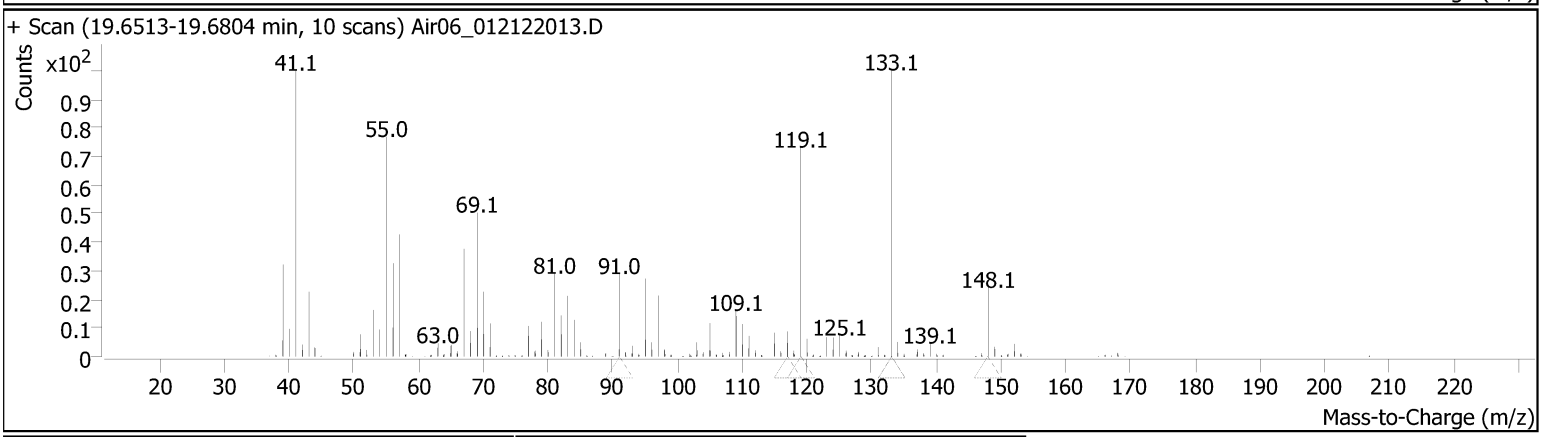



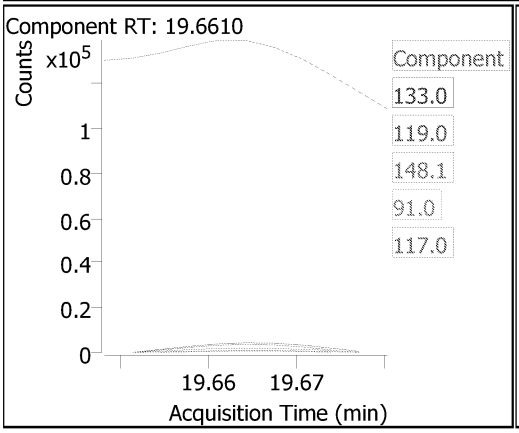



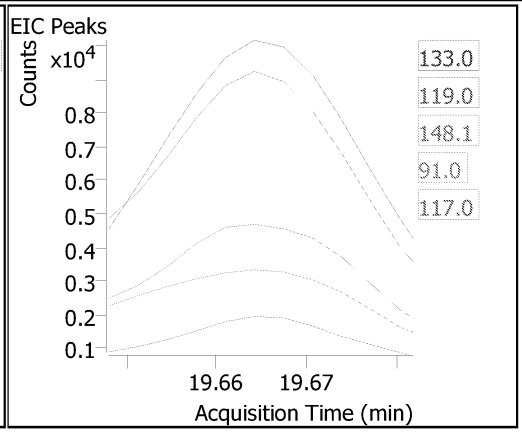
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.6610 | Benzene, 1,3-diethyl-5-methyl- | 49542.5 | 86.1 | 2050-24-0 | C11H16 | 0.1037 |

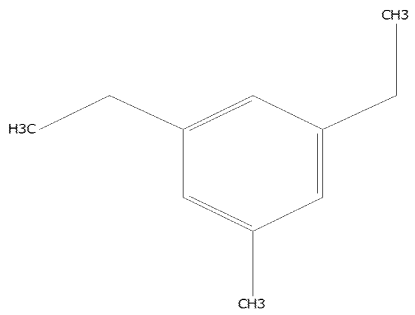


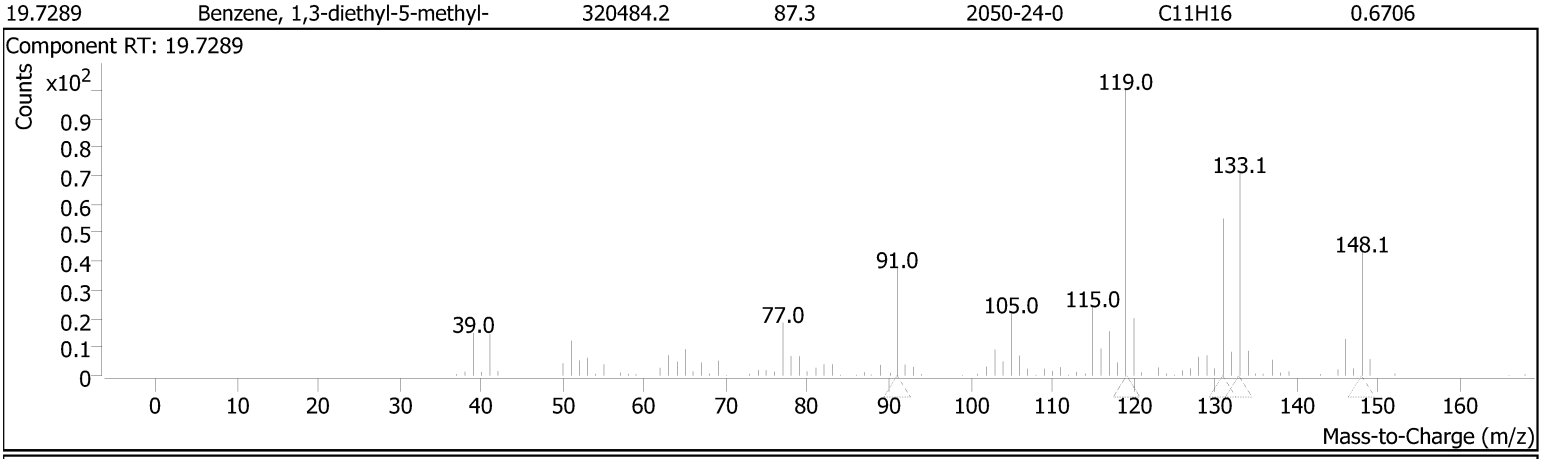



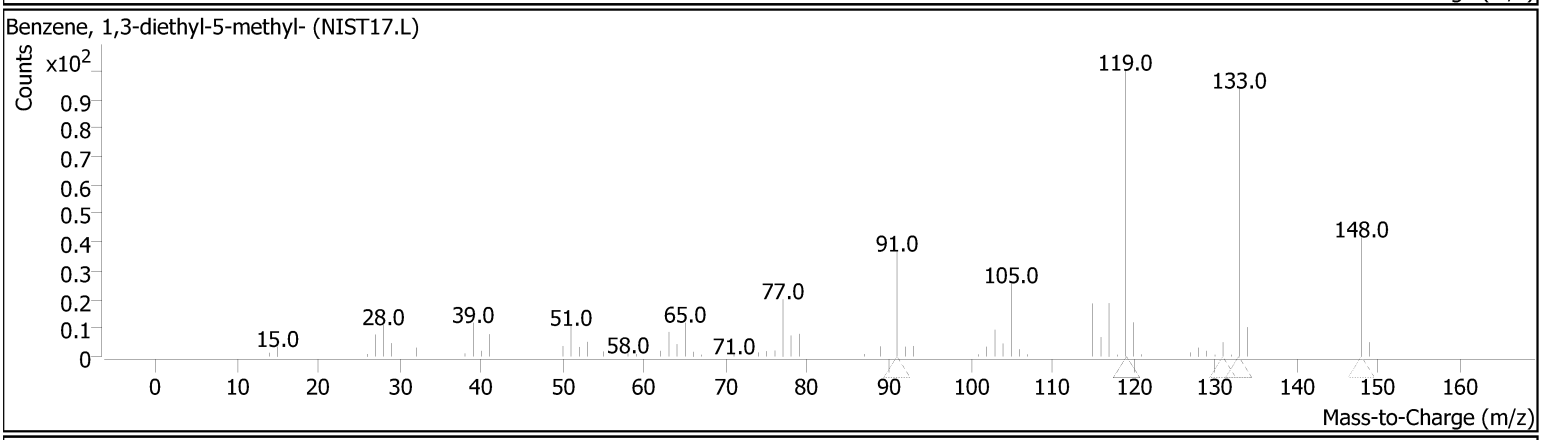



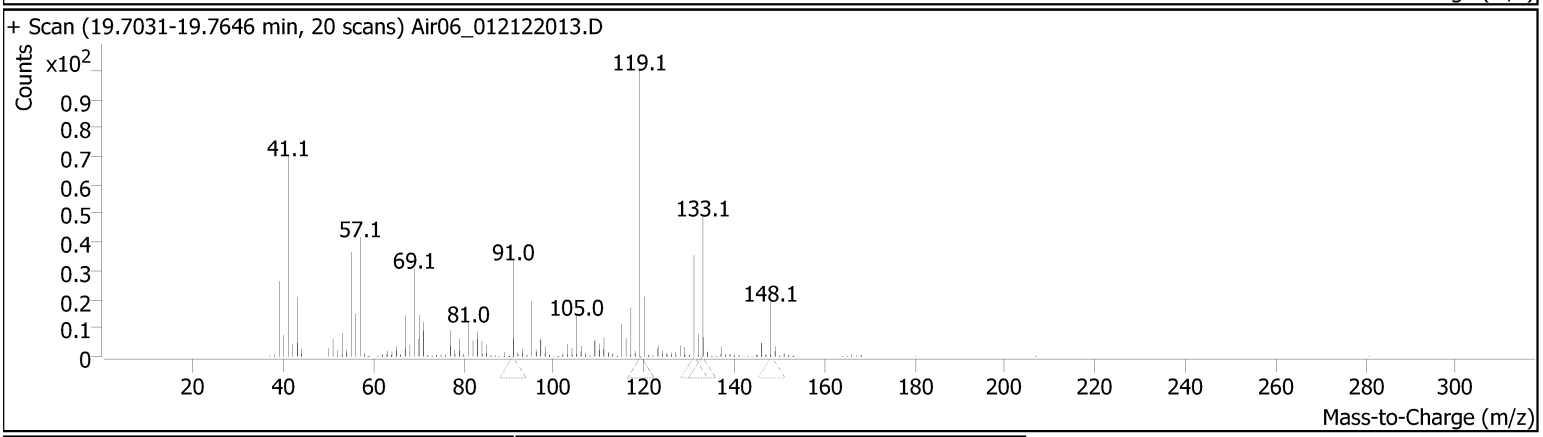
# Library Search Results - NonTarget Hits with Details

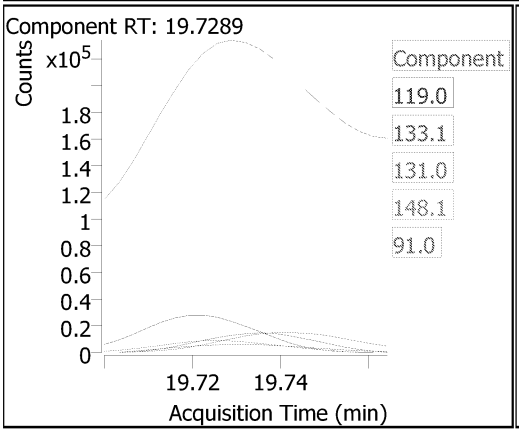
Agilent Technologies

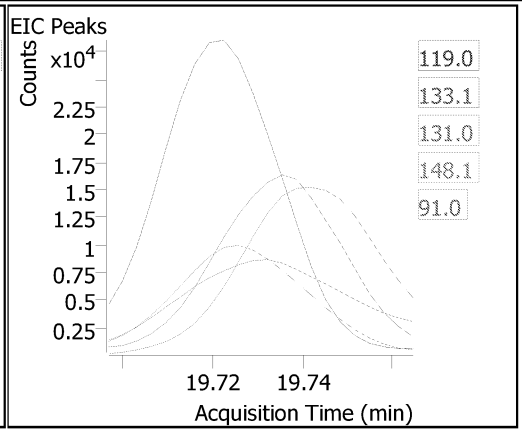
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.7289 | Benzene, 1,3-diethyl-5-methyl- | 320484.2 | 87.3 | 2050-24-0 | C11H16 | 0.6706 |

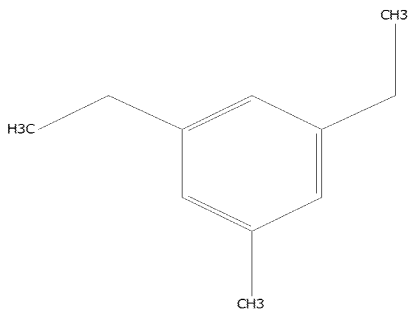


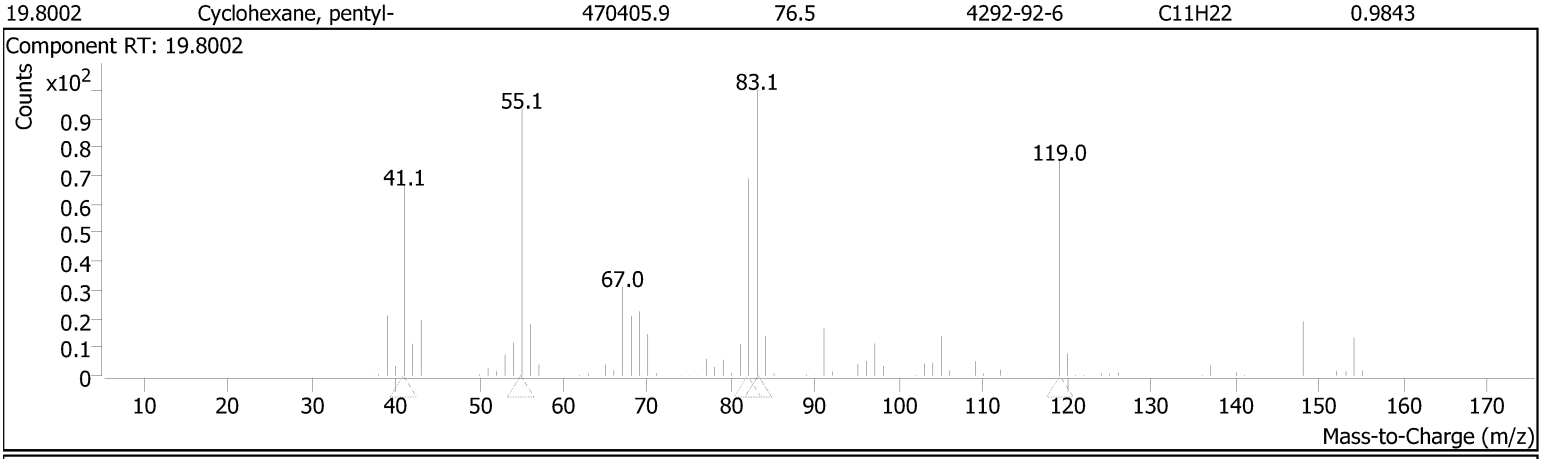



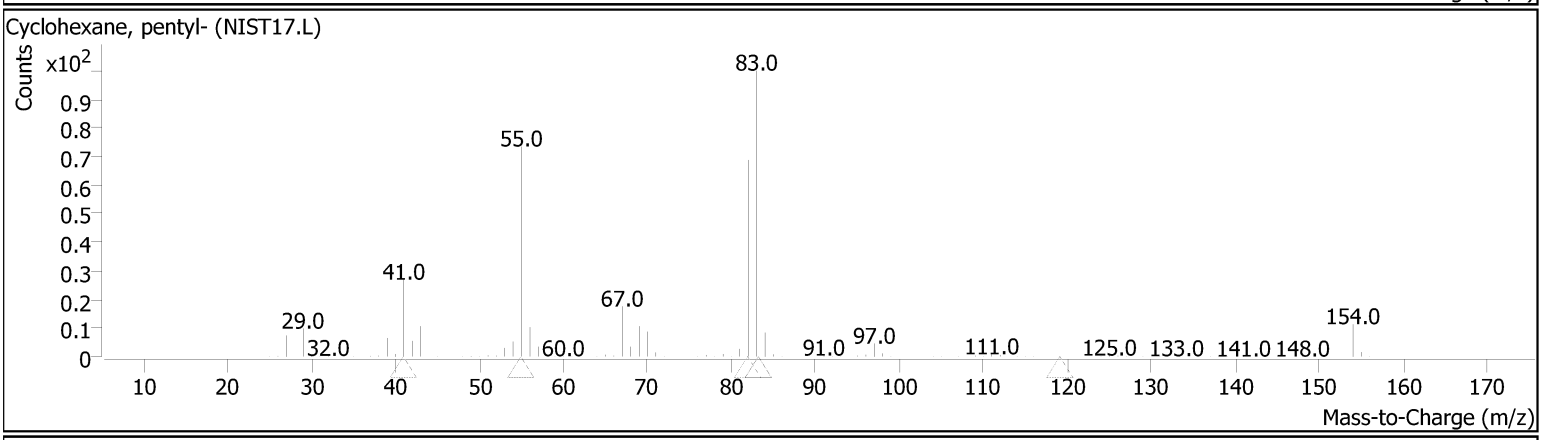



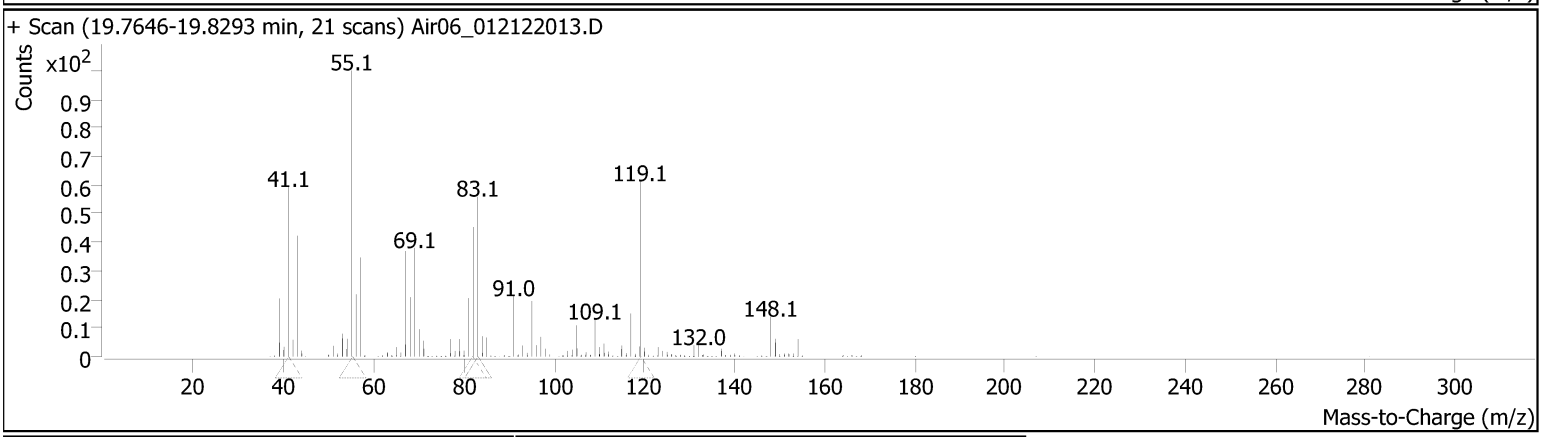



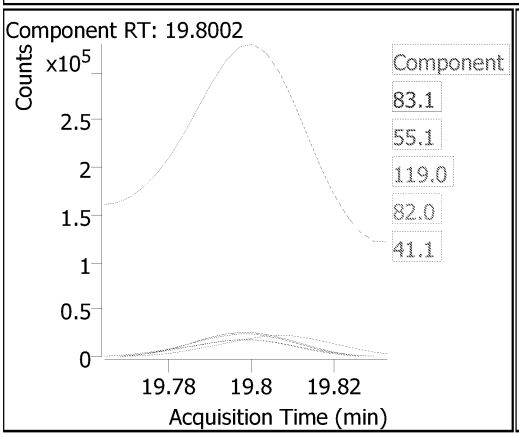



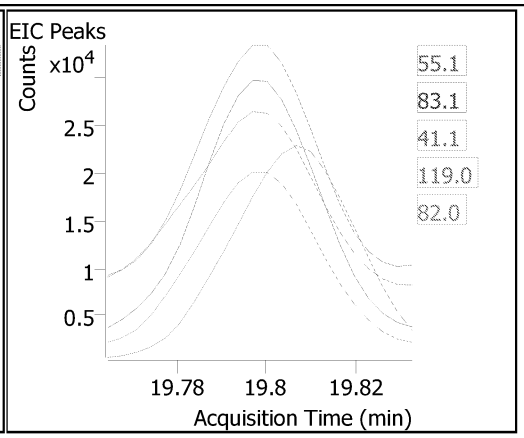
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.8002 | Cyclohexane, pentyl- | 470405.9 | 76.5 | 4292-92-6 | C11H22 | 0.9843 |

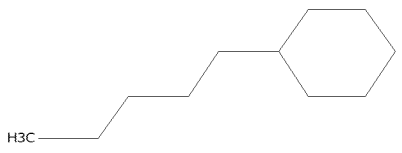


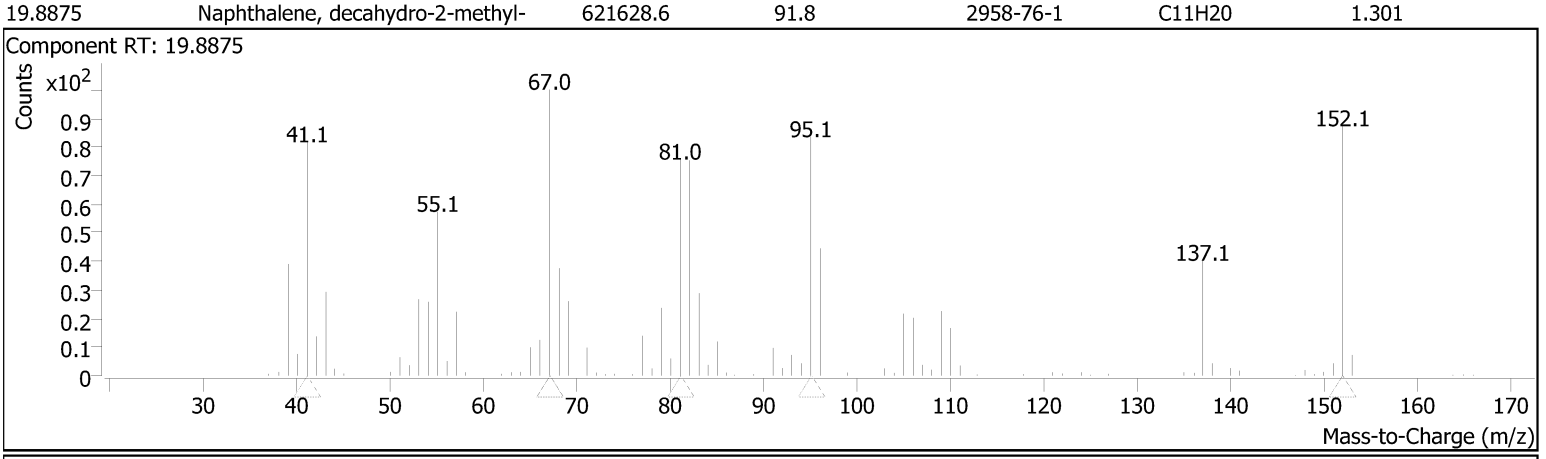



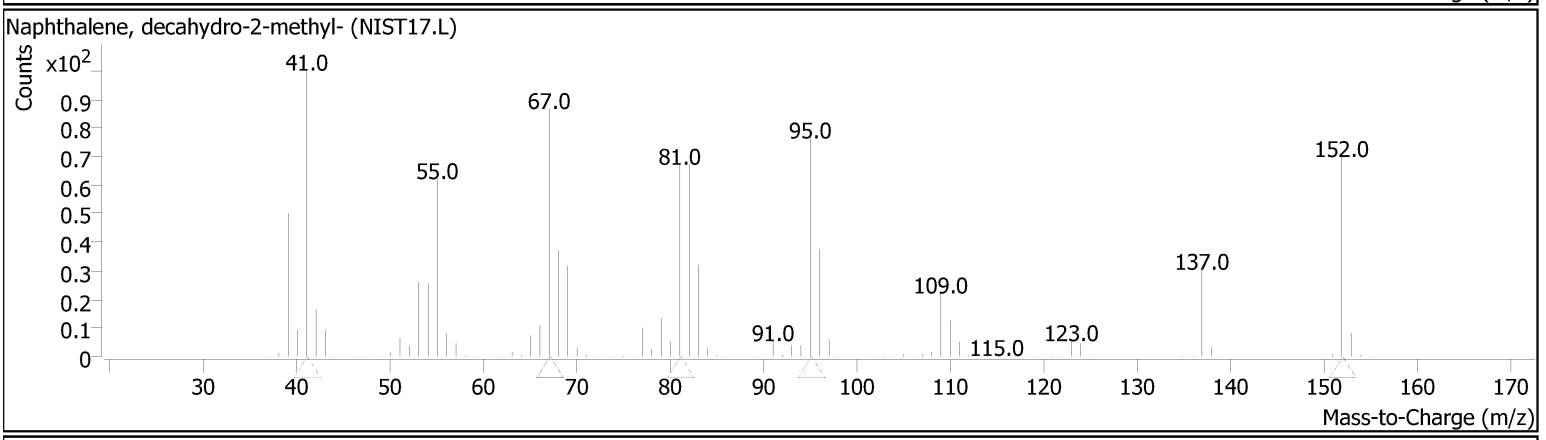



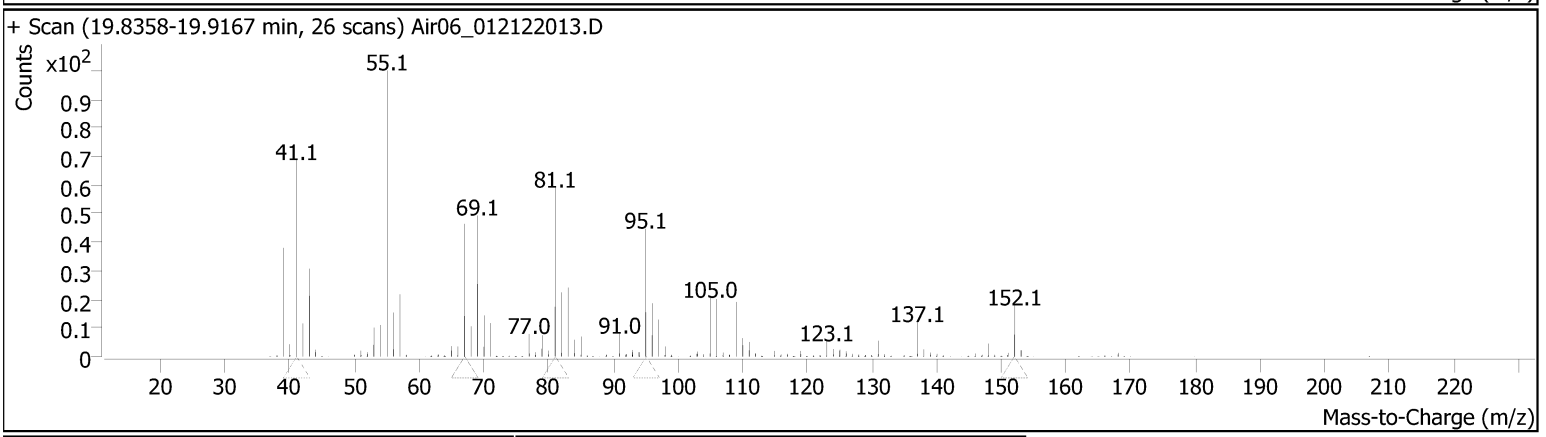
# Library Search Results - NonTarget Hits with Details

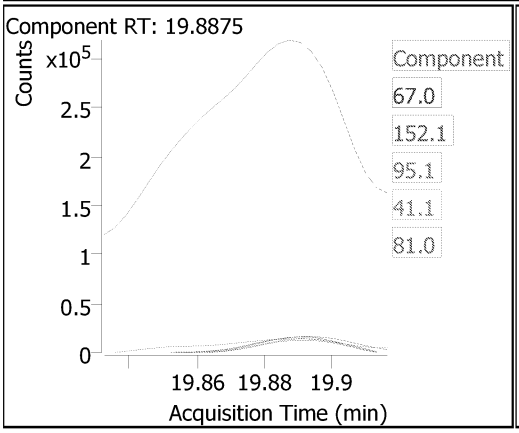
Agilent Technologies

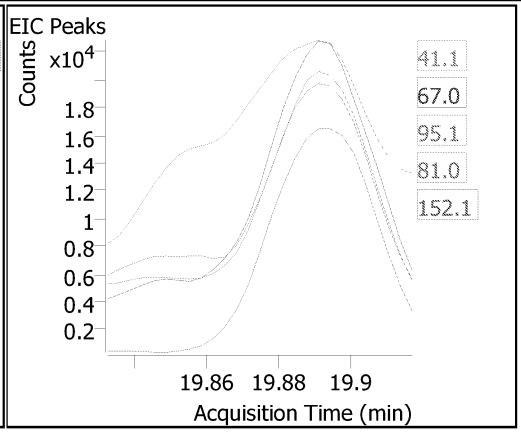
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.8875 | Naphthalene, decahydro-2-methyl- | 621628.6 | 91.8 | 2958-76-1 | C11H20 | 1.301 |

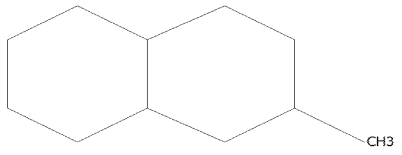


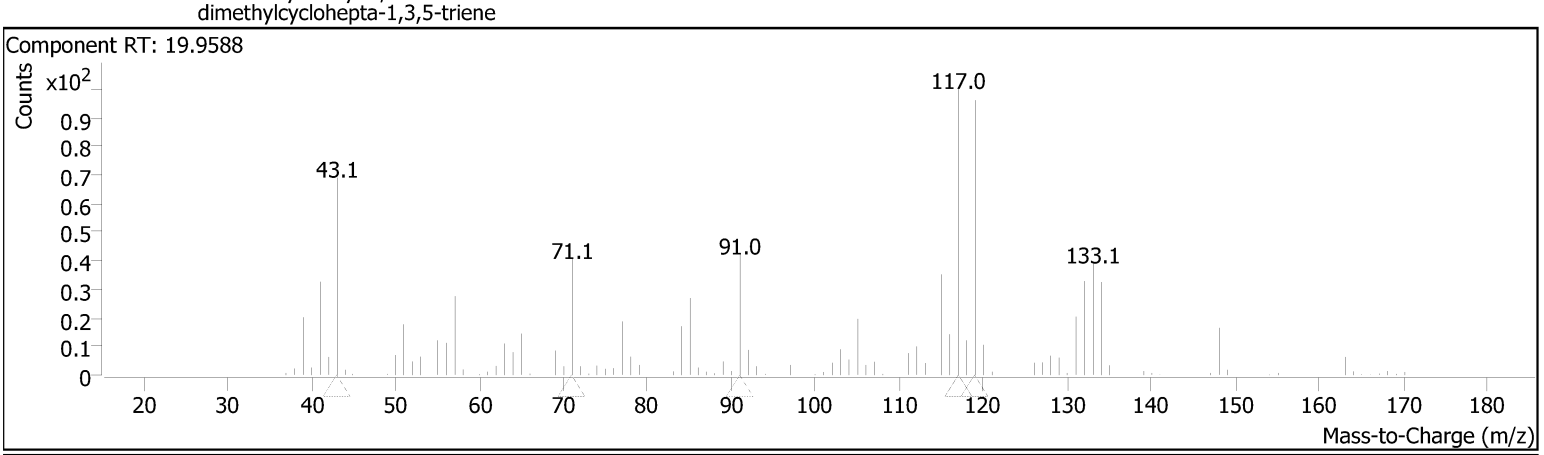



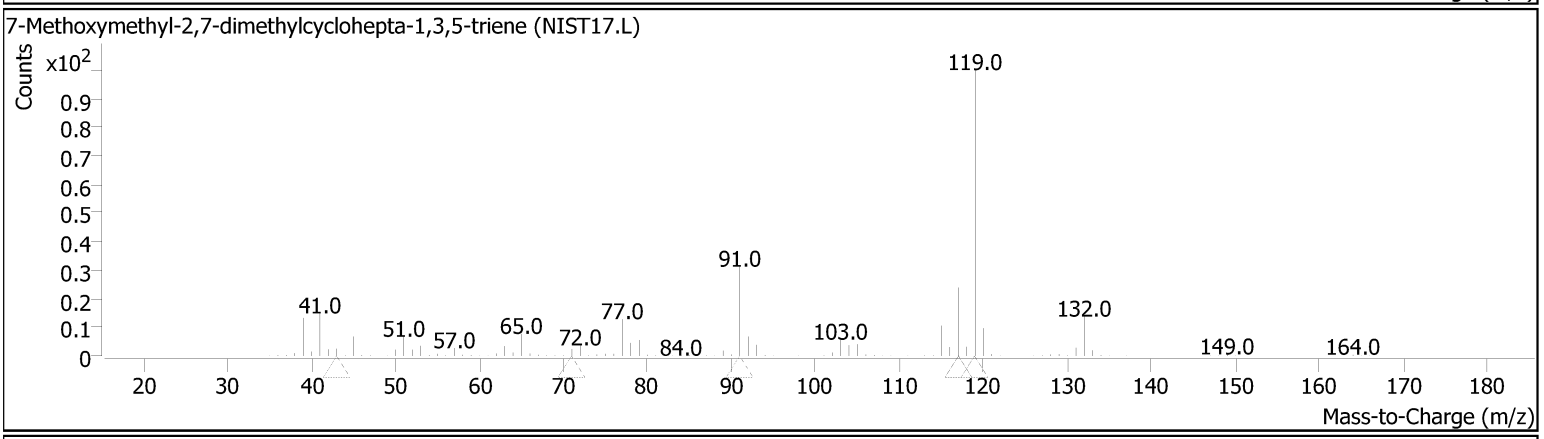



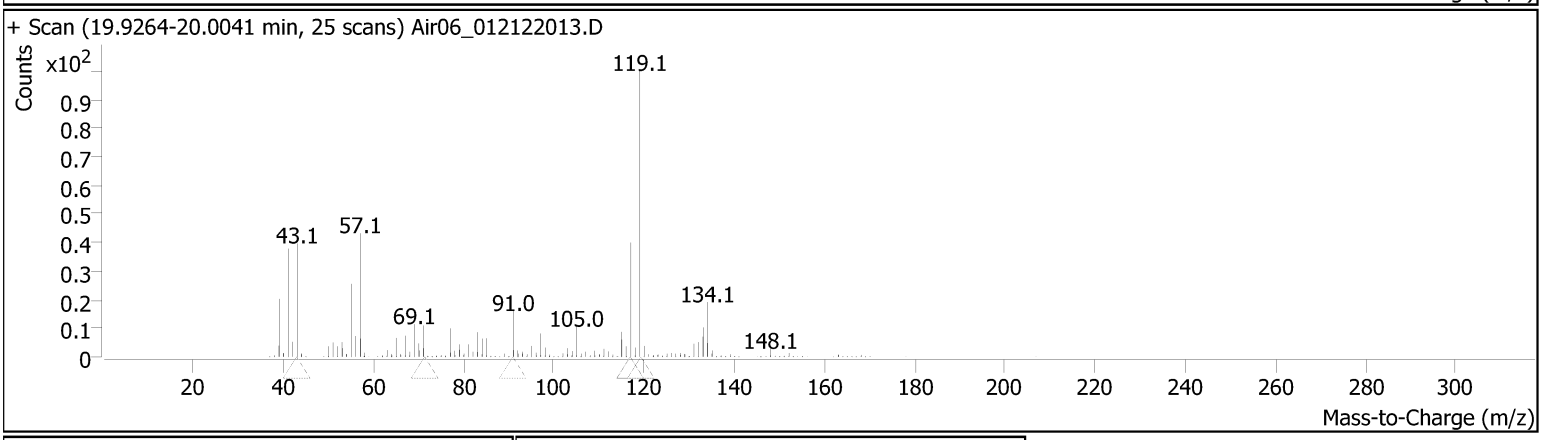



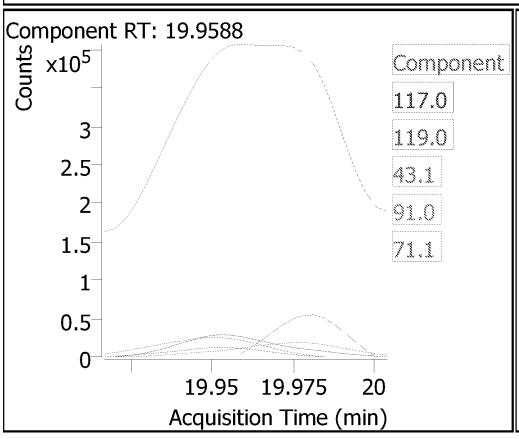



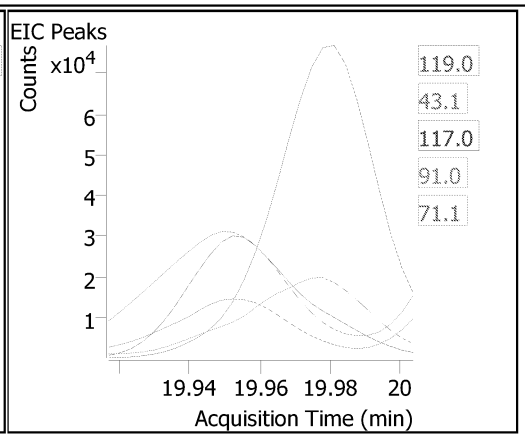
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.9588 | 7-Methoxymethyl-2,7-dimethylcyclohepta-1,3,5-triene | 1049692.4 | 79.3 | 73992-48-0 | C11H16O | 2.197 |

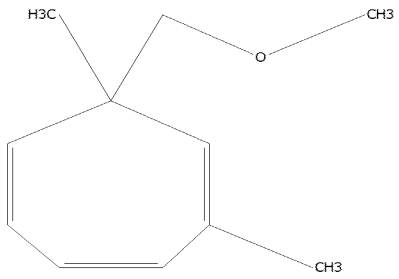


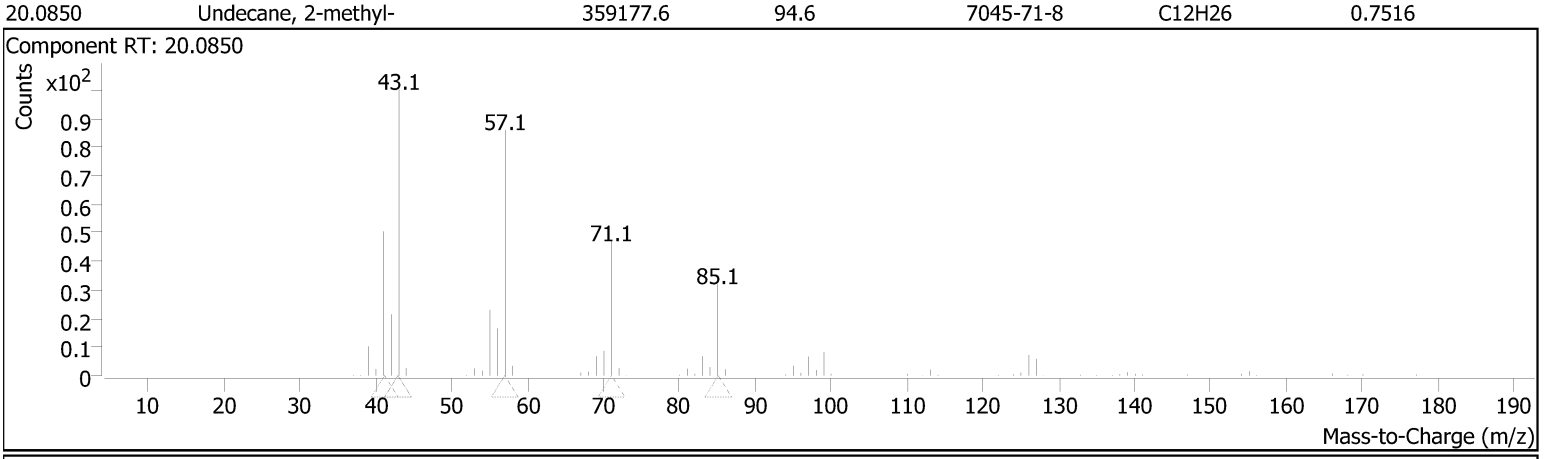



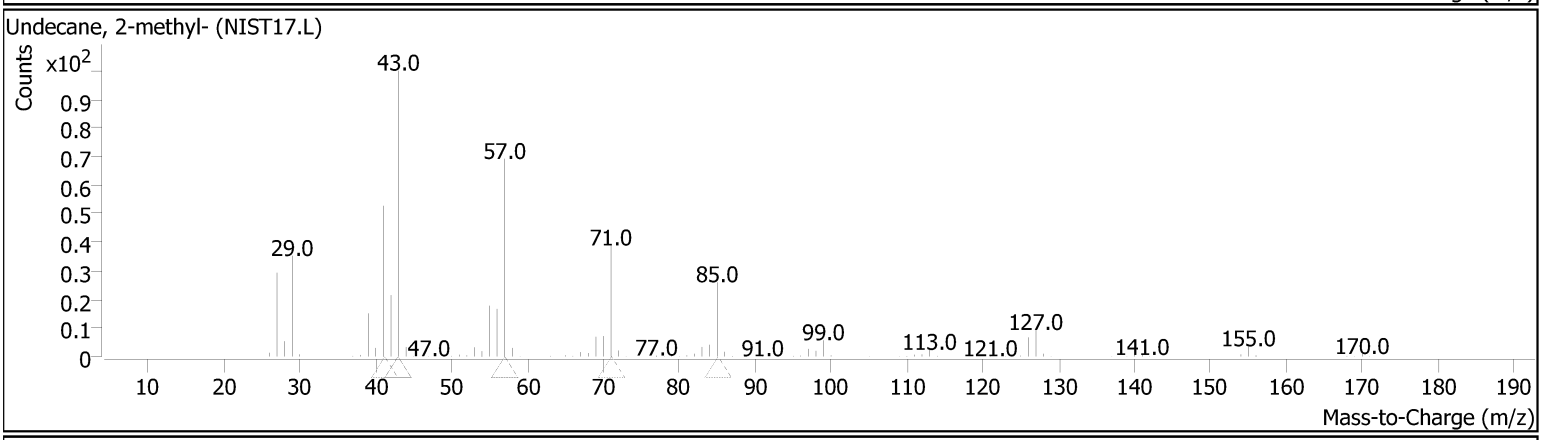



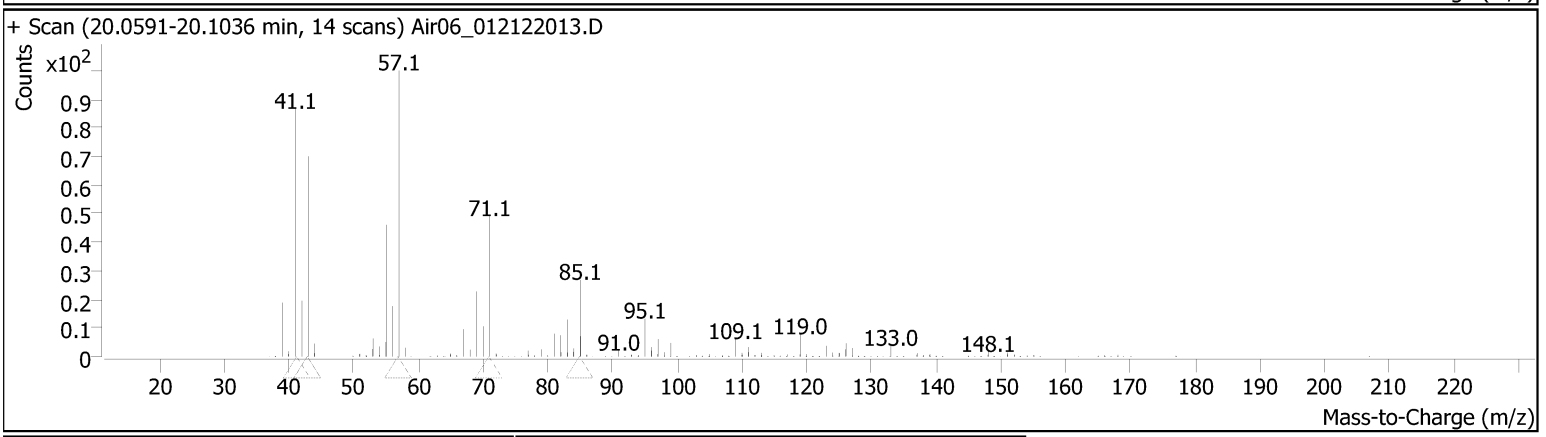
# Library Search Results - NonTarget Hits with Details

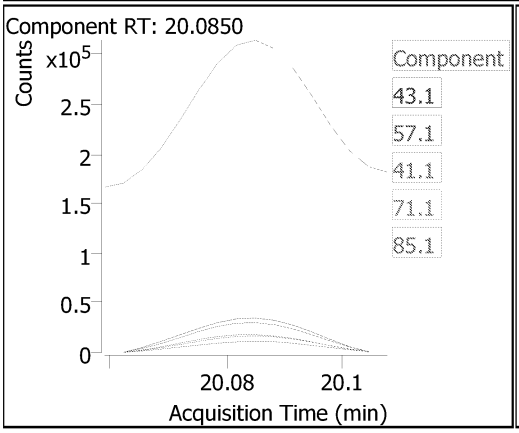
Agilent Technologies

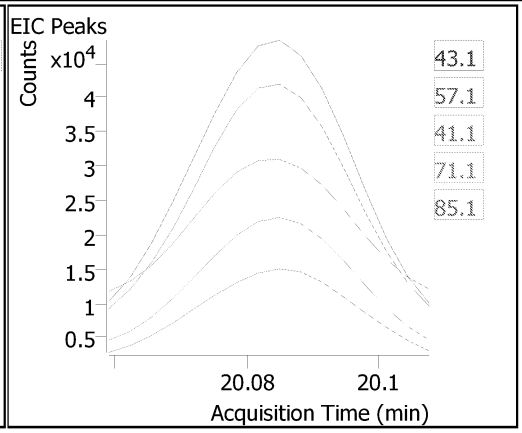
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0850 | Undecane, 2-methyl- | 359177.6 | 94.6 | 7045-71-8 | C12H26 | 0.7516 |



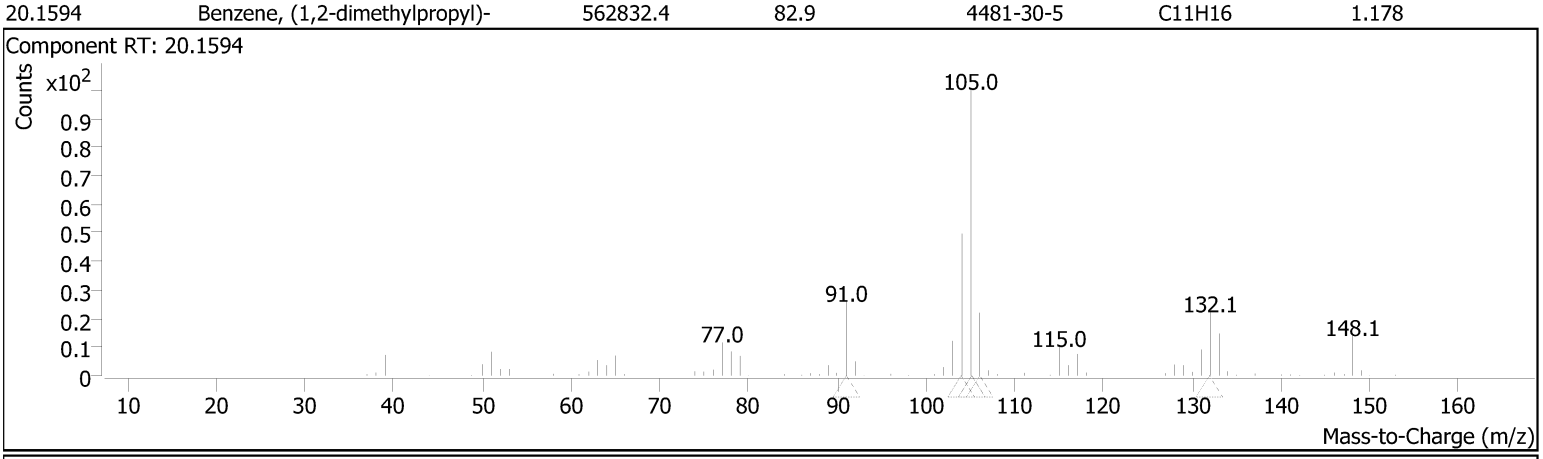



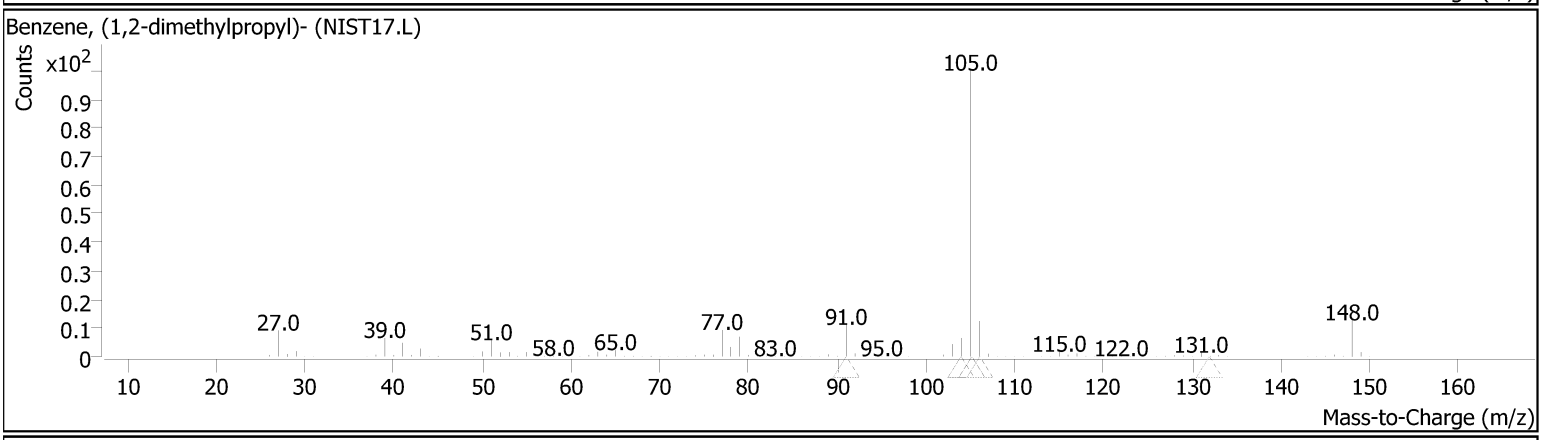



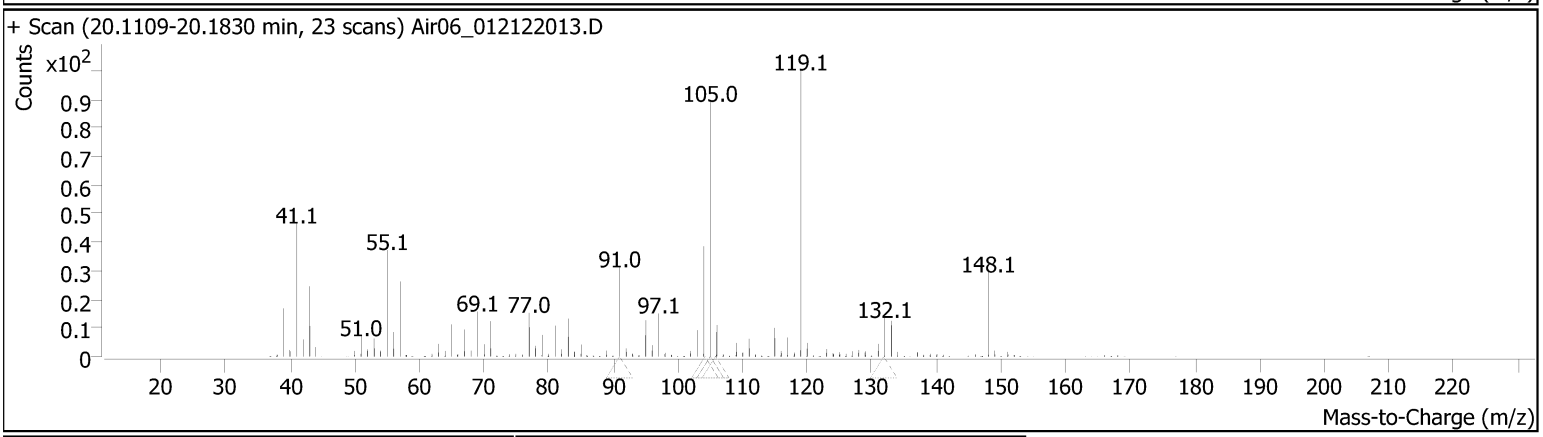



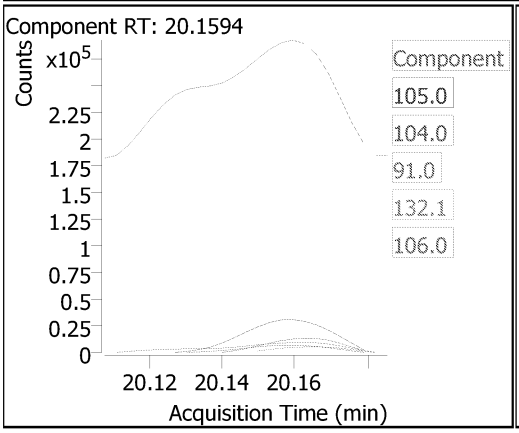


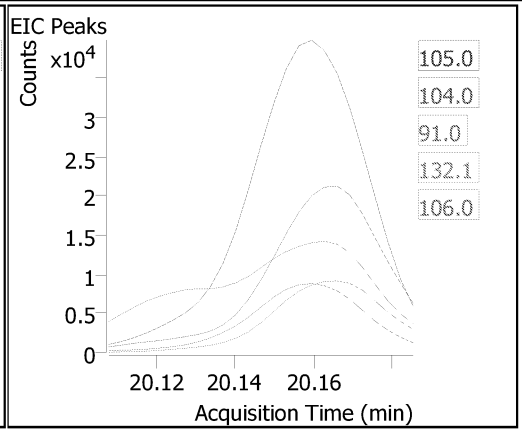

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.1594 | Benzene, (1,2-dimethylpropyl)- | 562832.4 | 82.9 | 4481-30-5 | C11H16 | 1.178 |

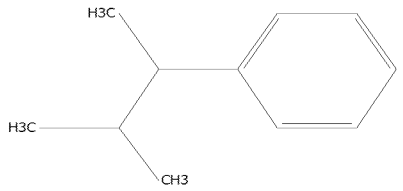


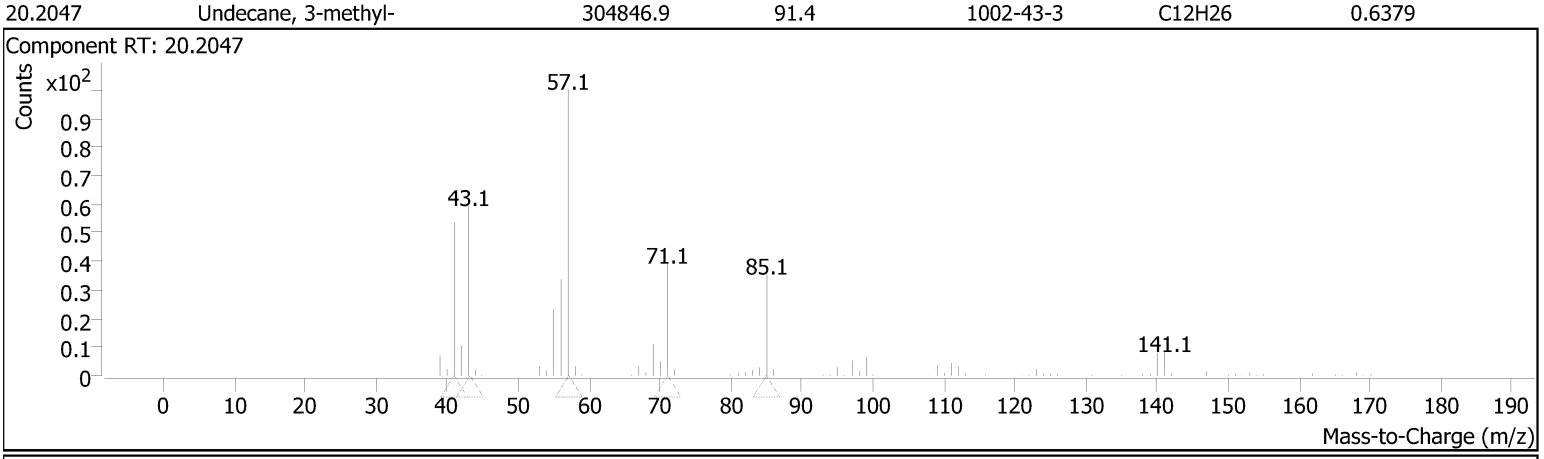



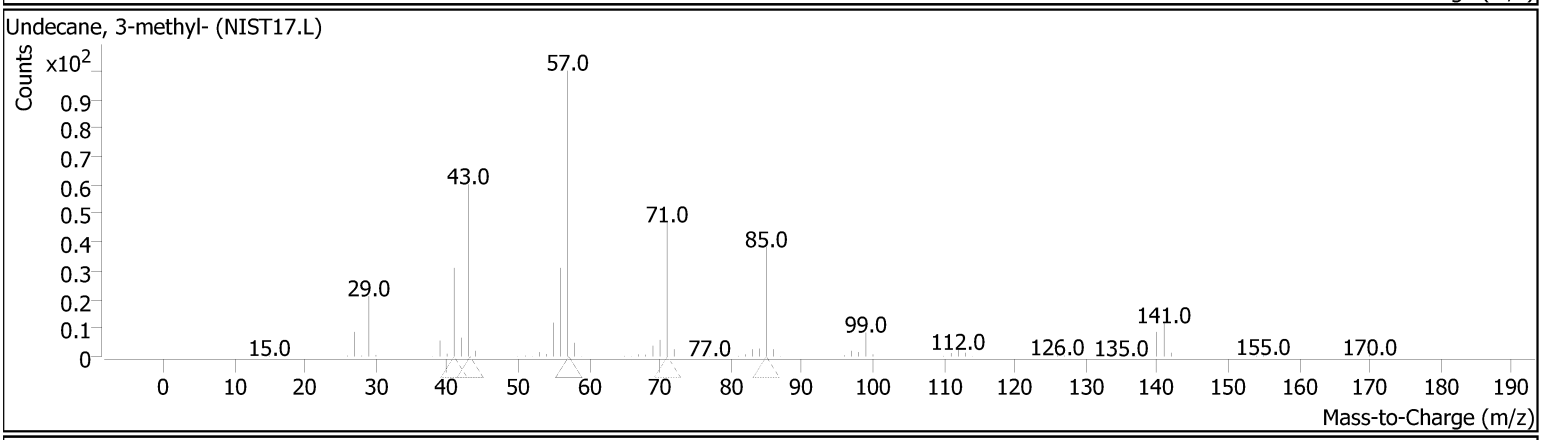



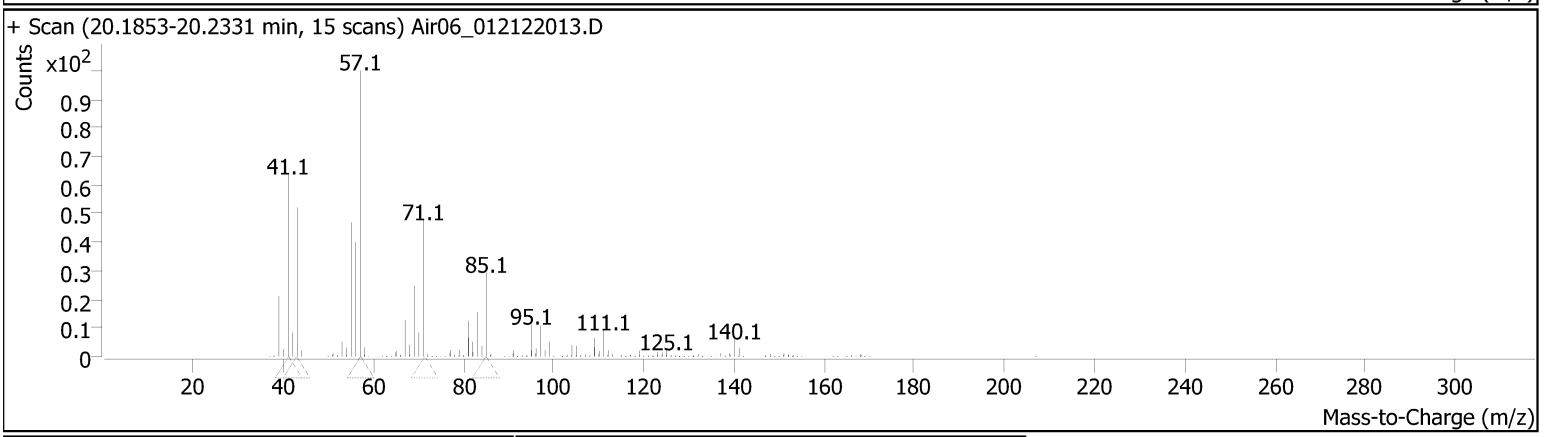
# Library Search Results - NonTarget Hits with Details

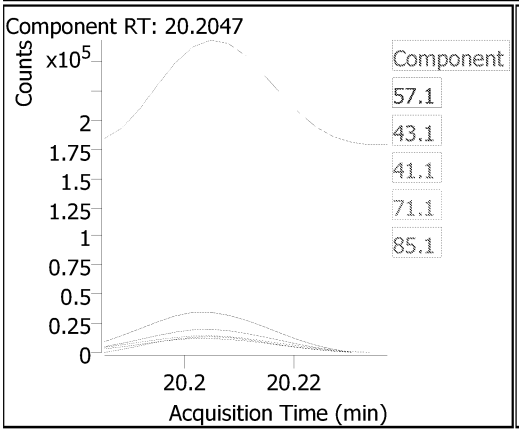
Agilent Technologies

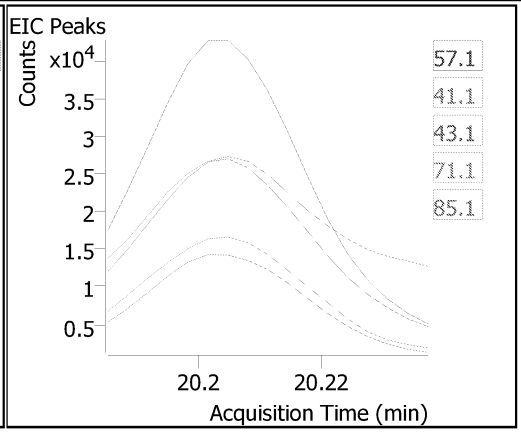
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.2047 | Undecane, 3-methyl- | 304846.9 | 91.4 | 1002-43-3 | C12H26 | 0.6379 |

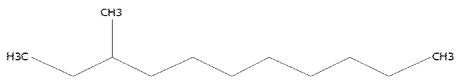


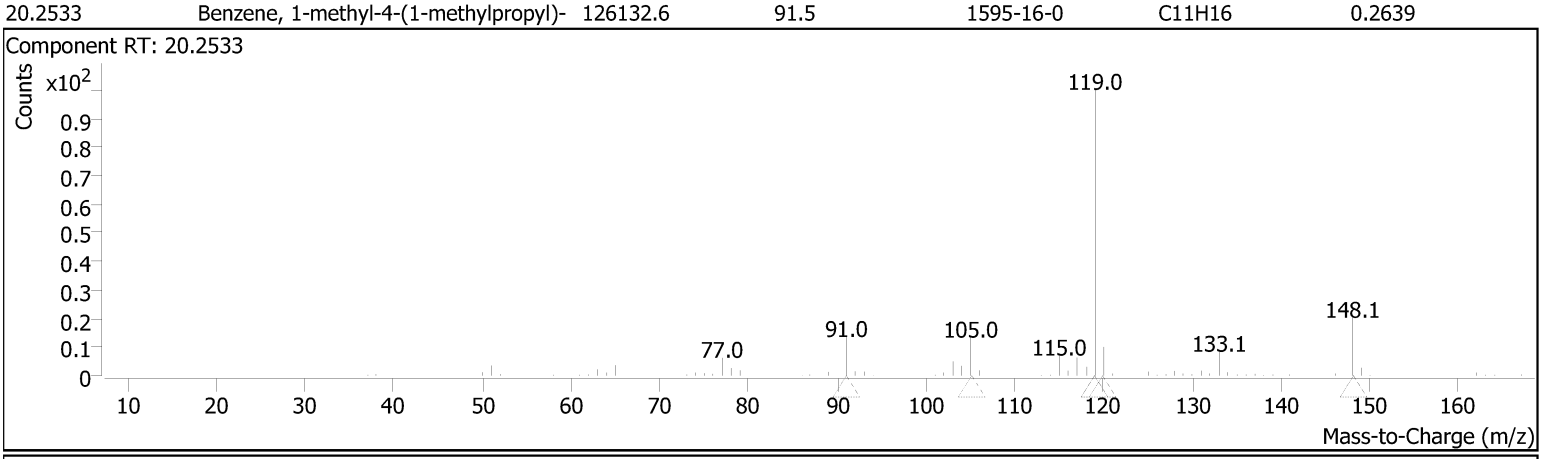



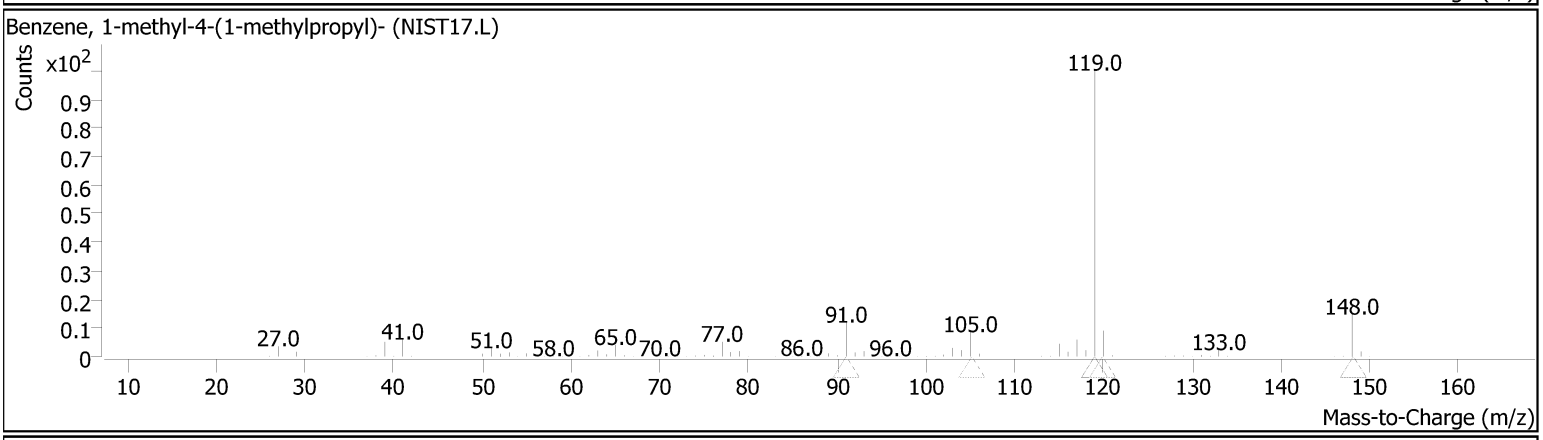



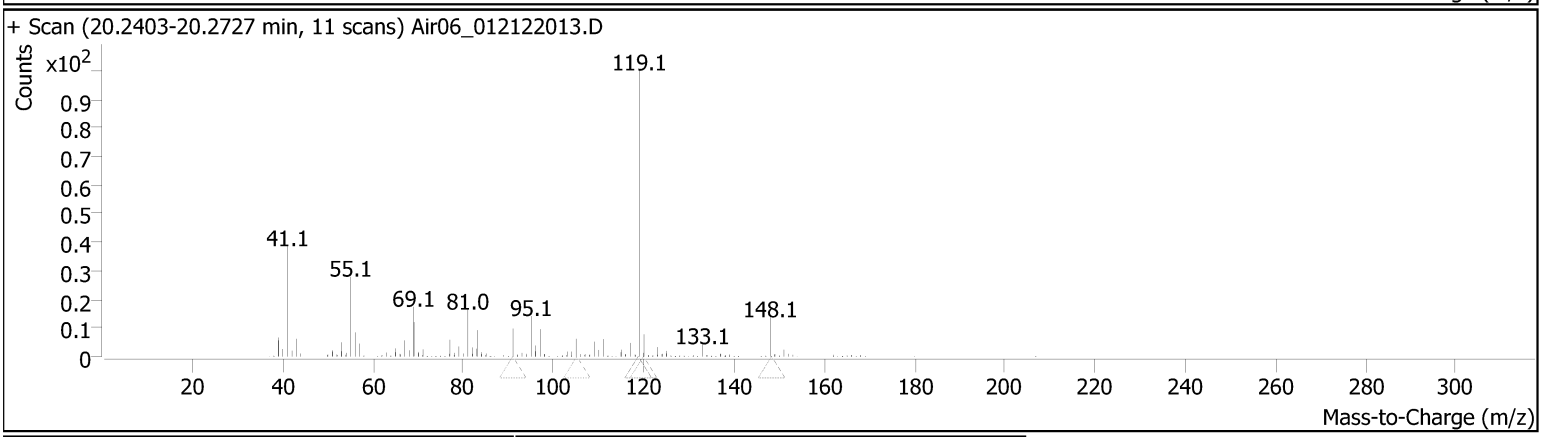



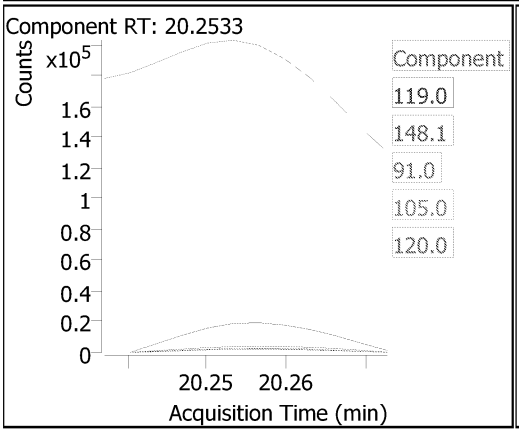



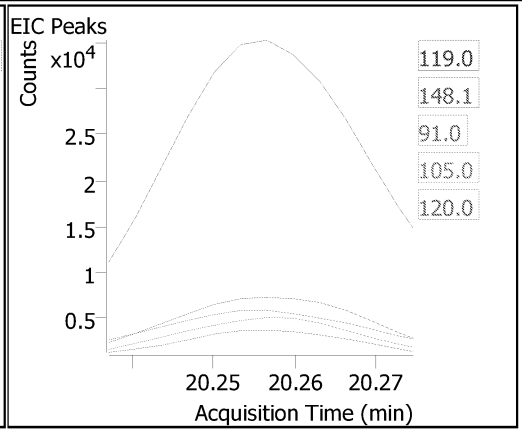
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.2533 | Benzene, 1-methyl-4-(1-methylpropyl)- | 126132.6 | 91.5 | 1595-16-0 | C11H16 | 0.2639 |

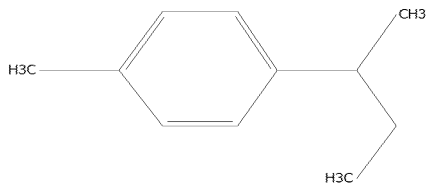


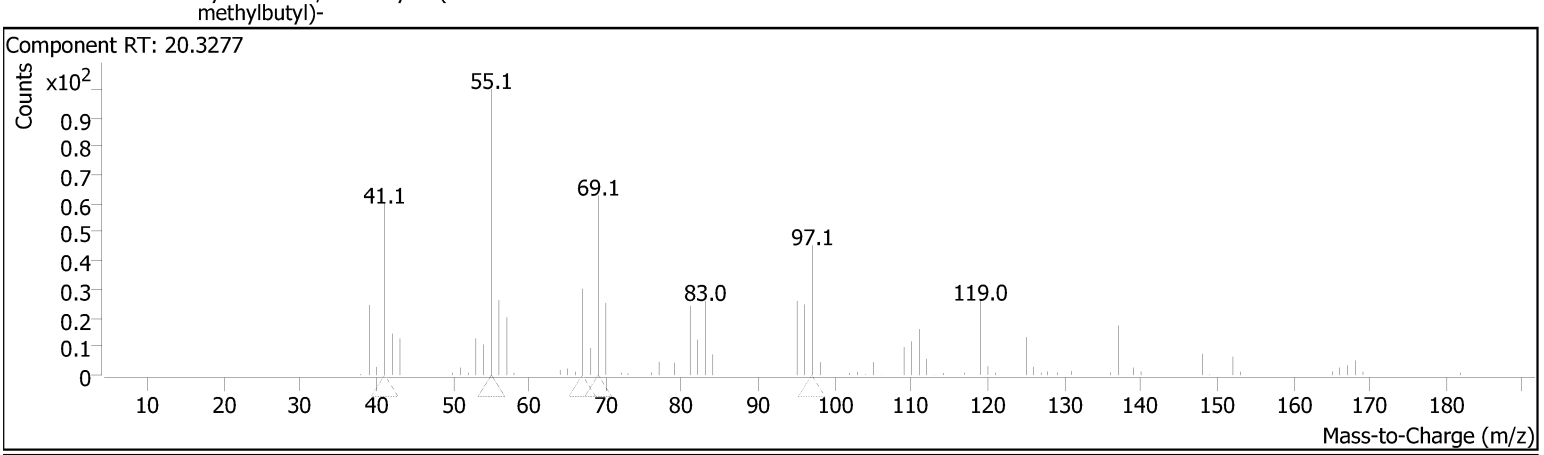



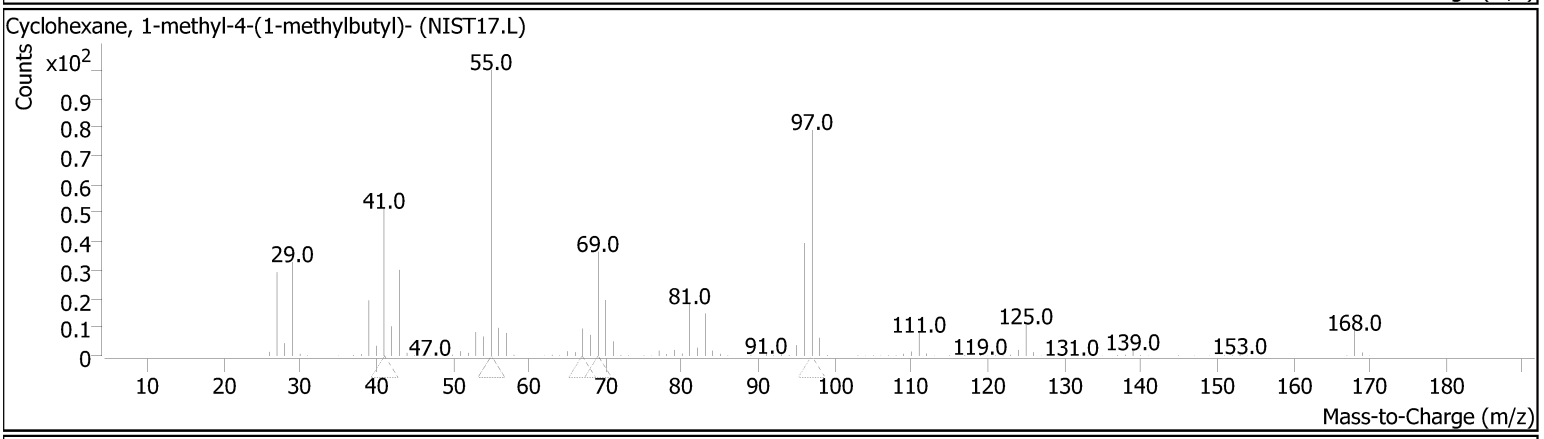



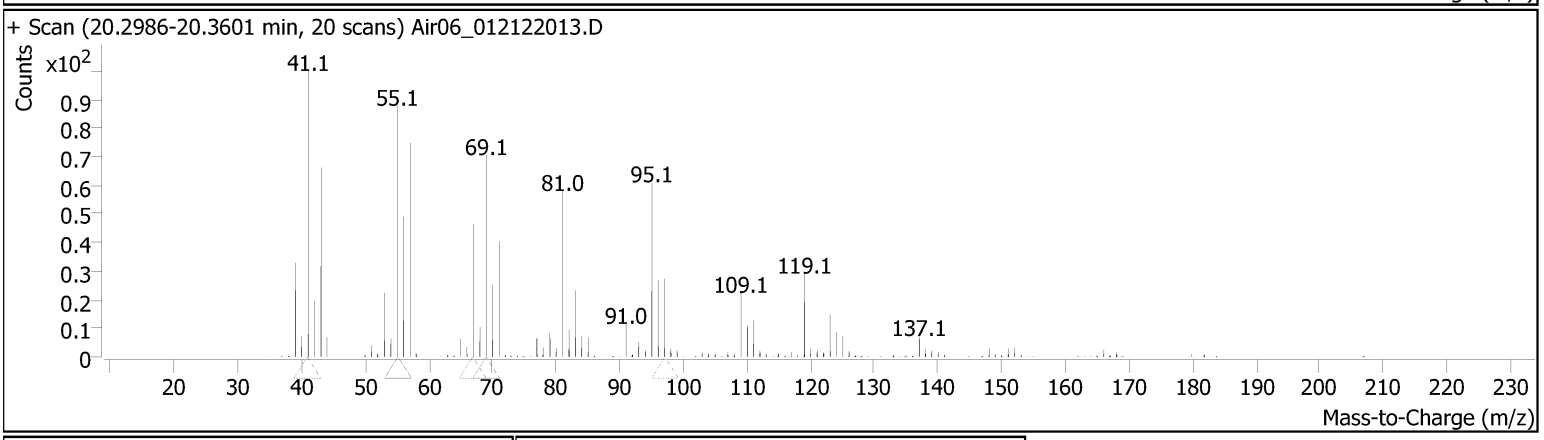



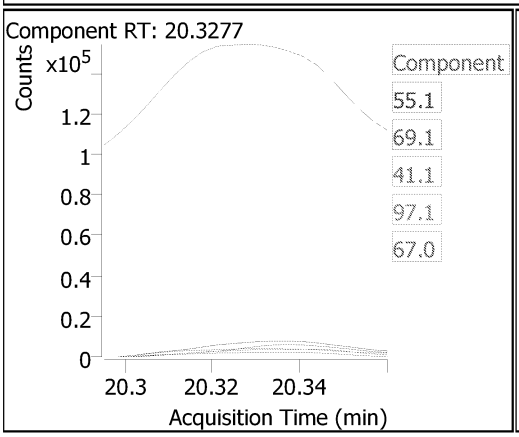



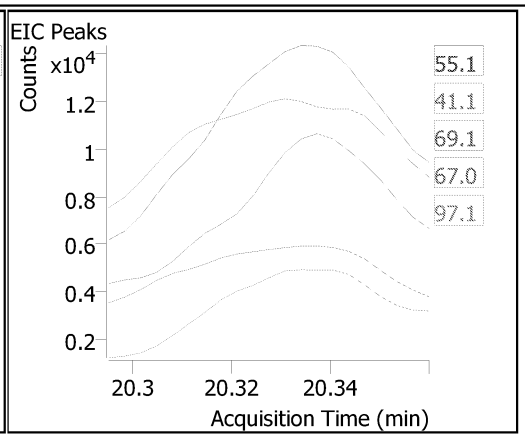
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3277 | Cyclohexane, 1-methyl-4-(1-methylbutyl)- | 112642.0 | 80.3 | 54411-00-6 | C12H24 | 0.2357 |

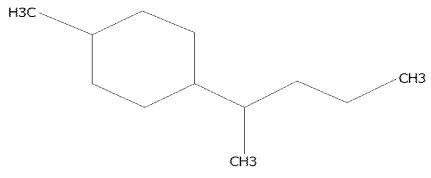


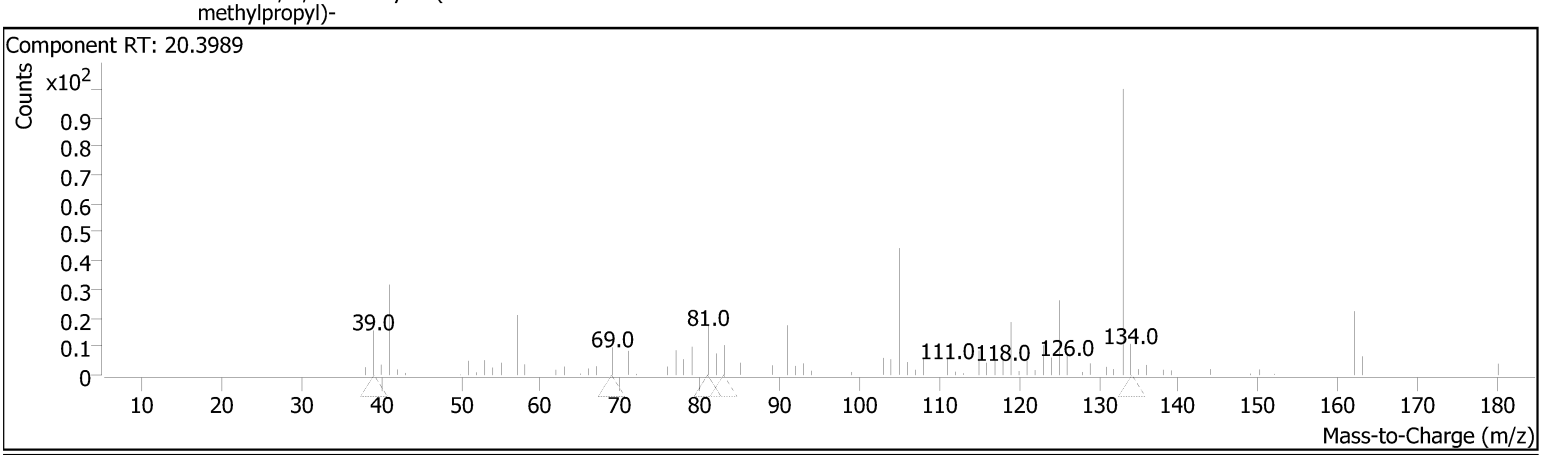



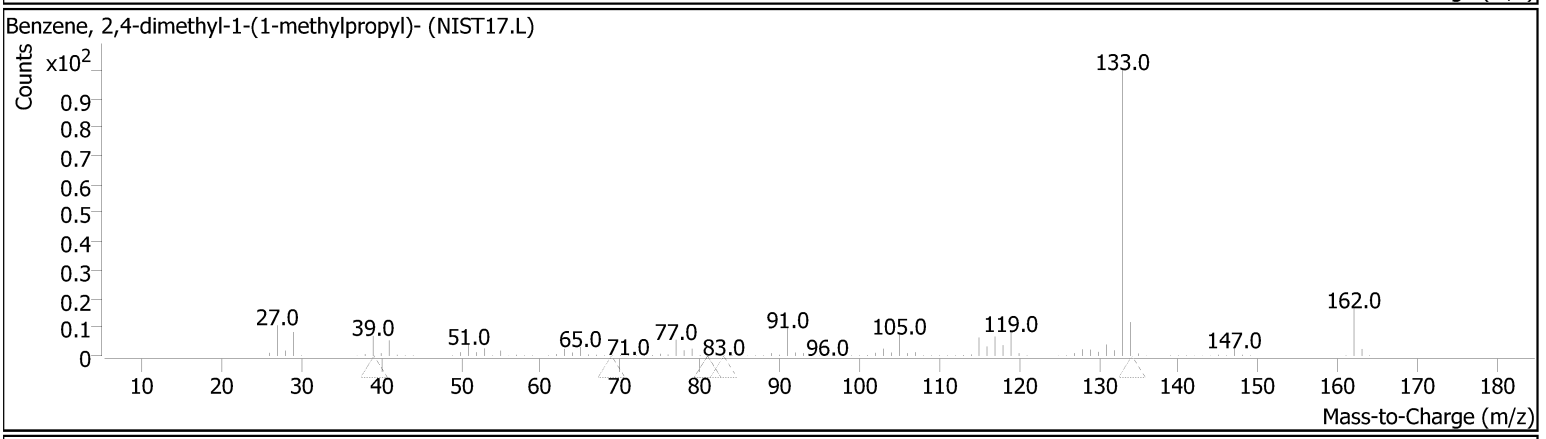



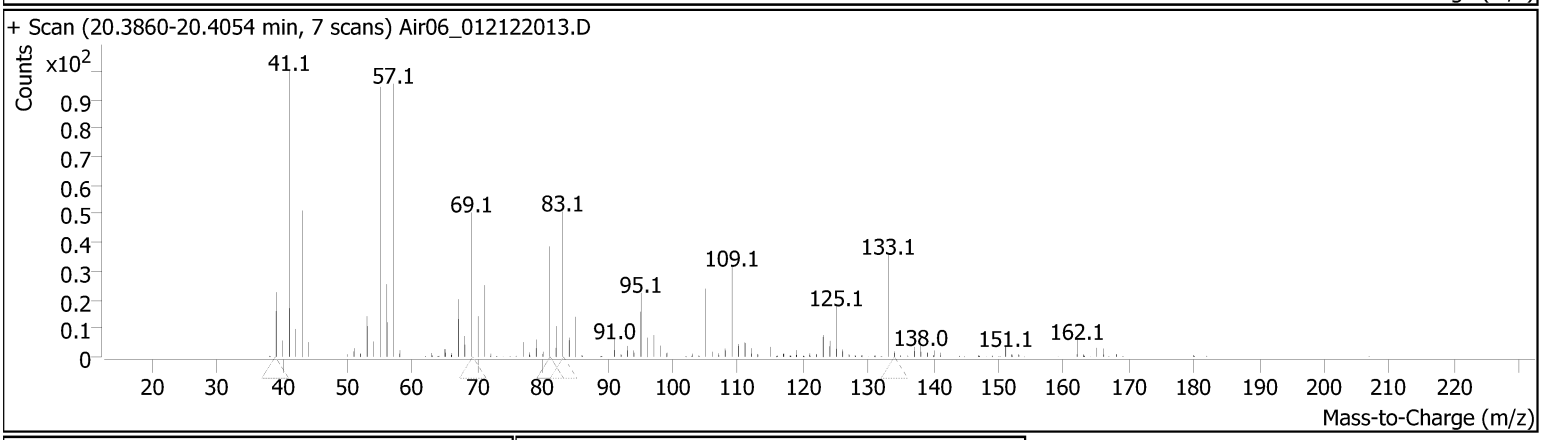
# Library Search Results - NonTarget Hits with Details

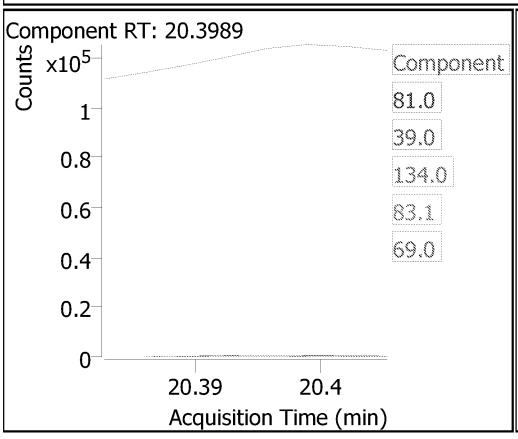
Agilent Technologies

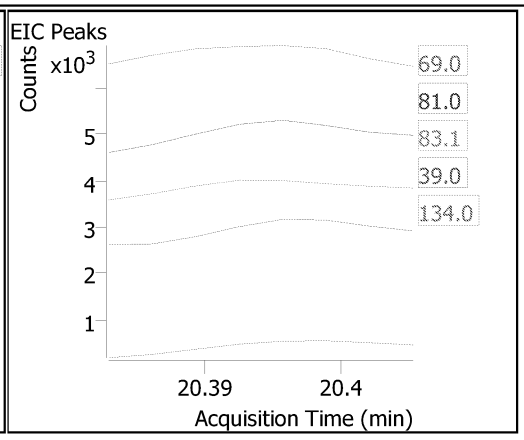
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3989 | Benzene, 2,4-dimethyl-1-(1-methylpropyl)- | 4165.2 | 75.0 | 1483-60-9 | C12H18 | 0.008716 |

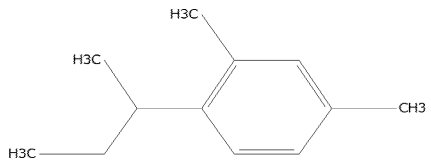


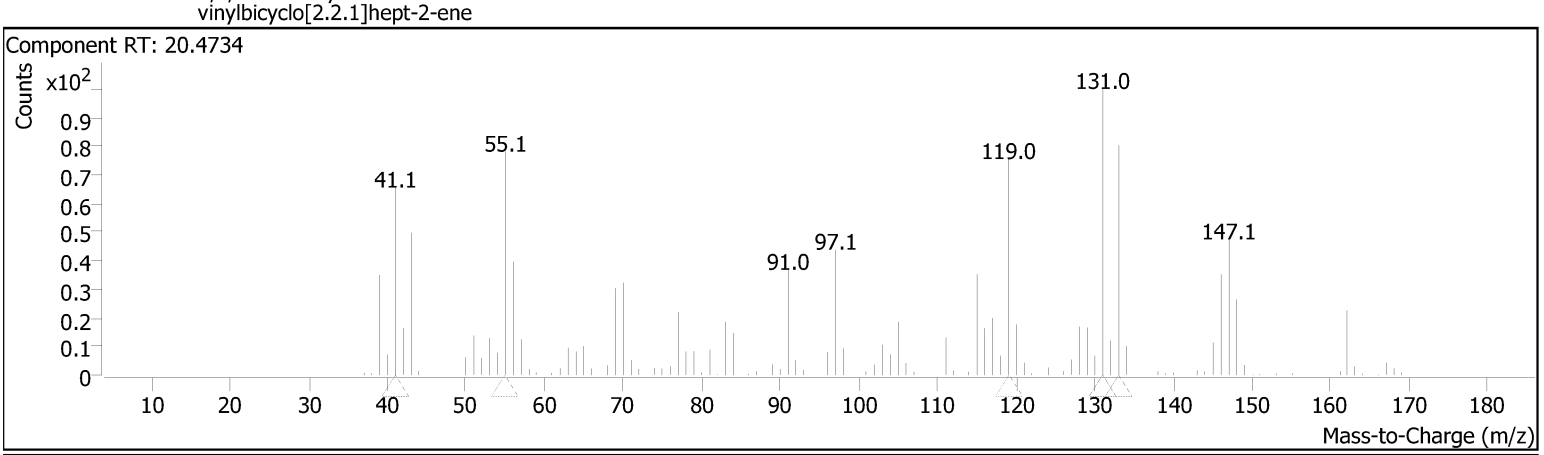



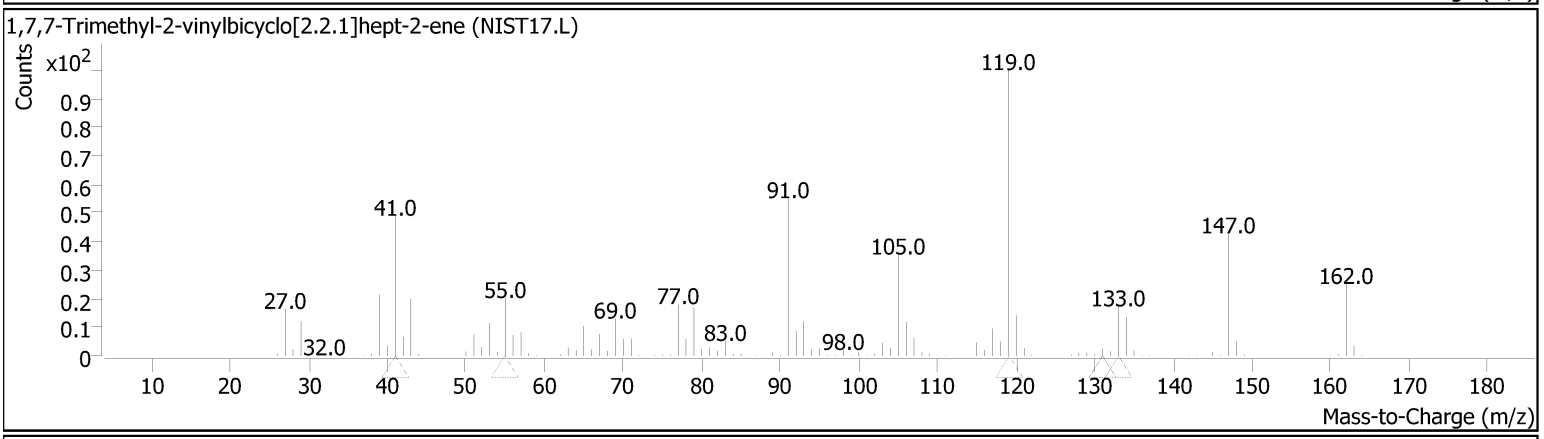



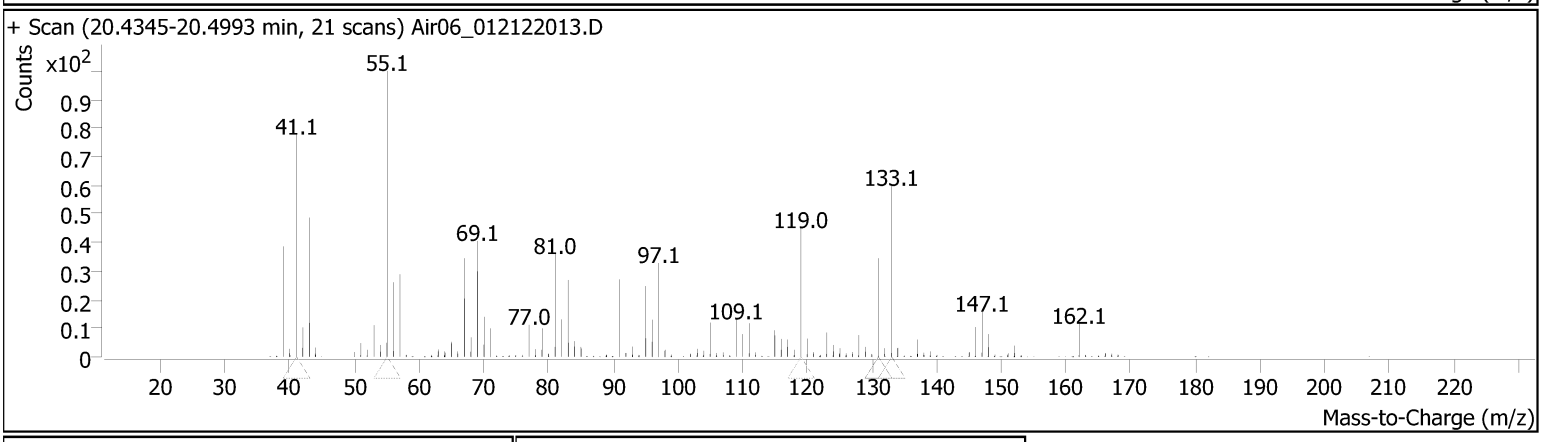



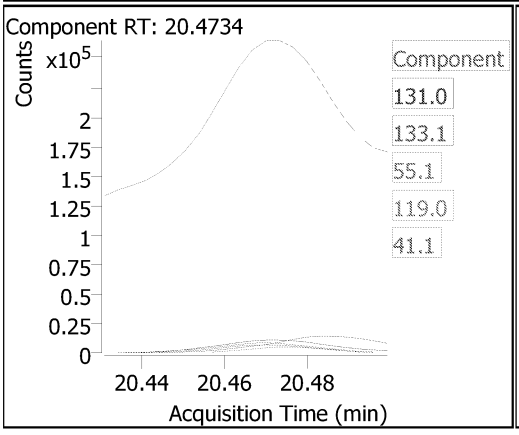



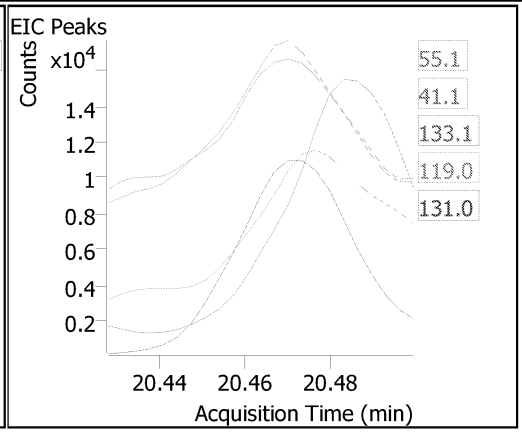
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.4734 | 1,7,7-Trimethyl-2-vinylbicyclo[2.2.1]hept-2-ene | 288422.8 | 75.9 | 130930-56-2 | C12H18 | 0.6035 |

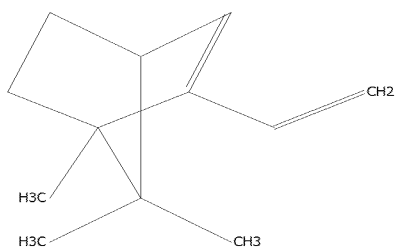


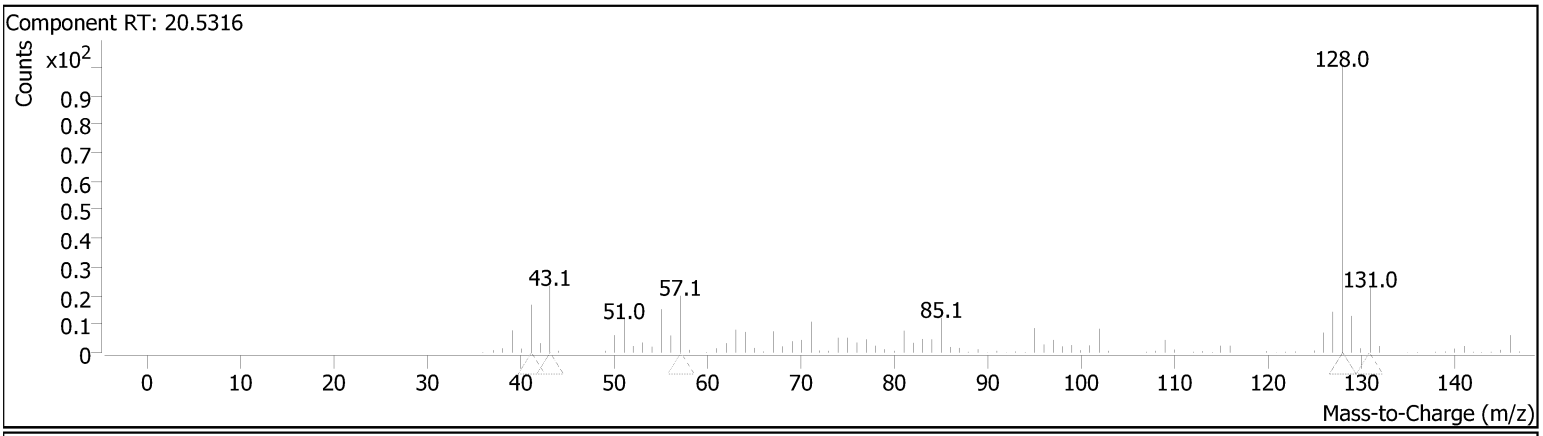



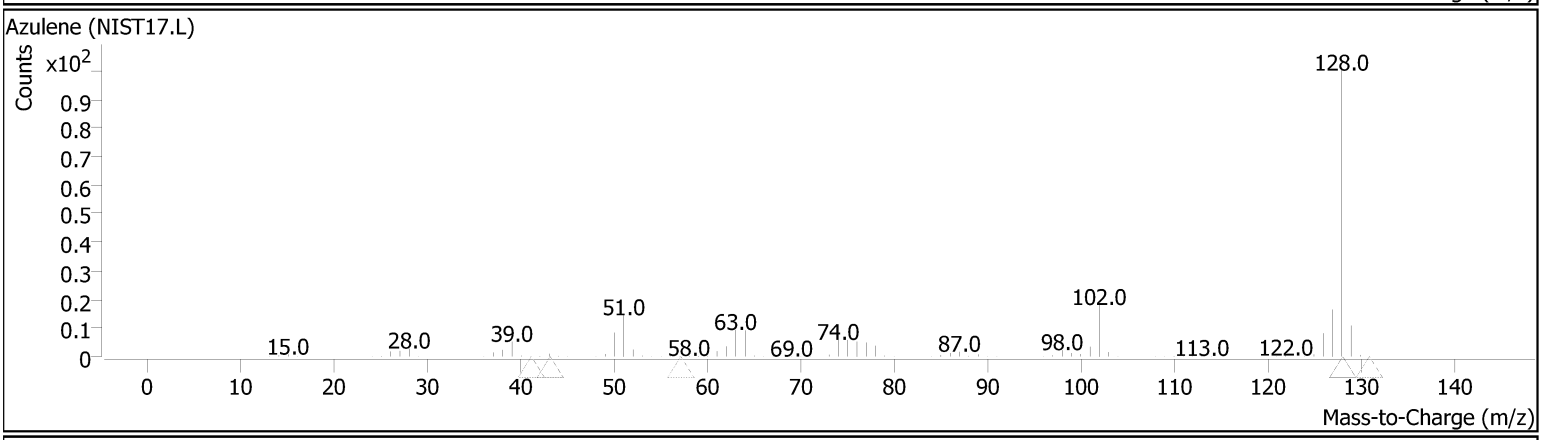



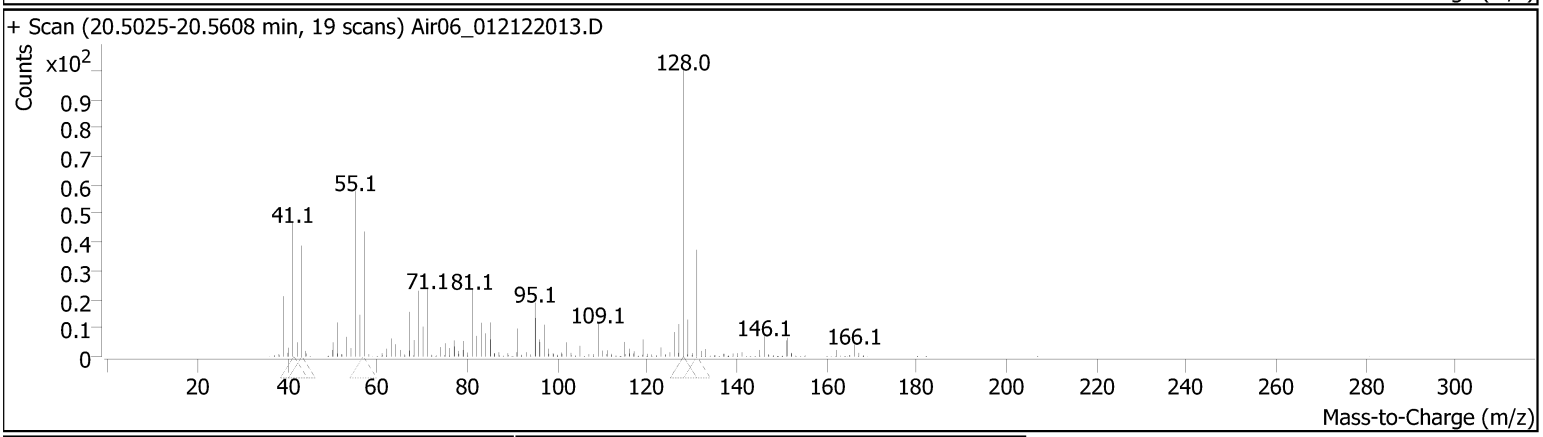



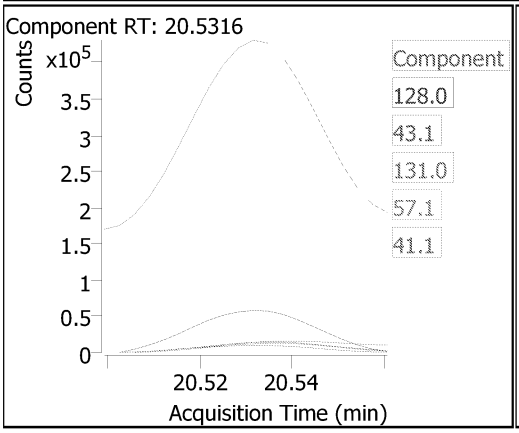



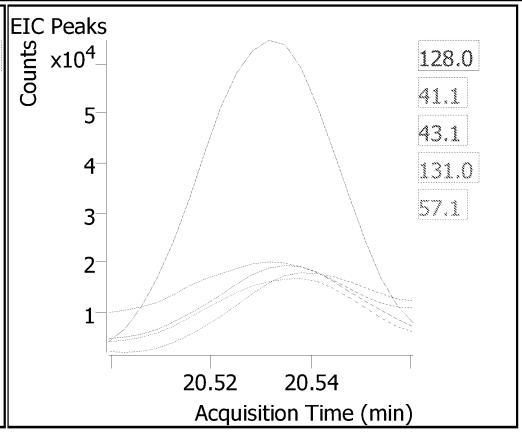
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.5316 | Azulene | 635148.8 | 70.7 | 275-51-4 | C10H8 | 1.329 |

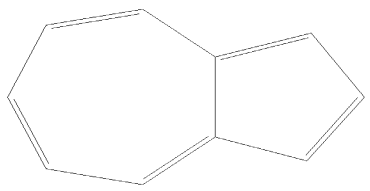


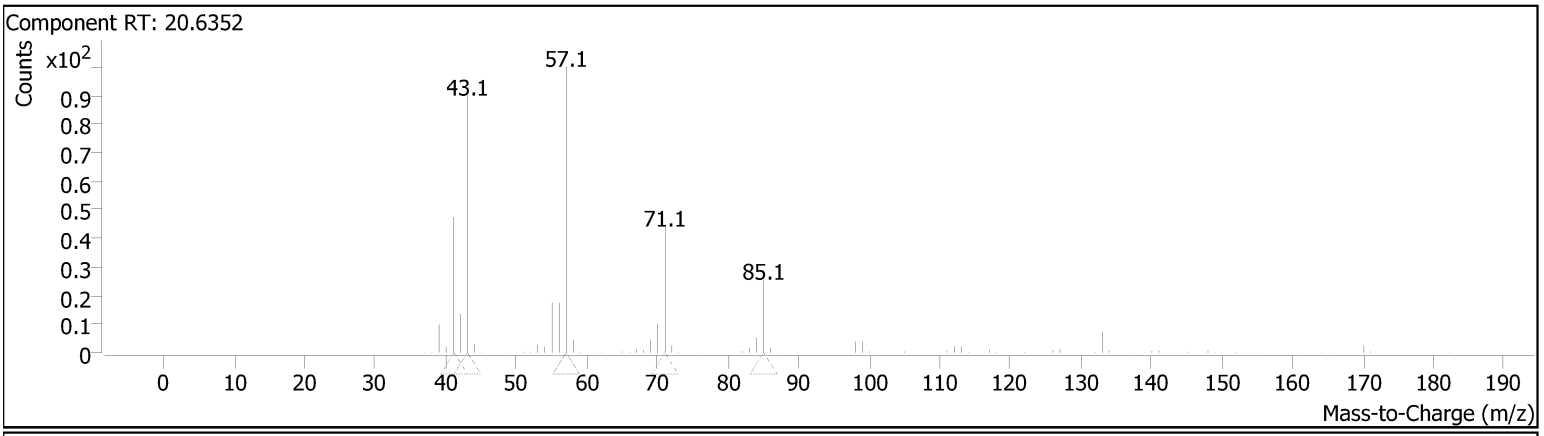



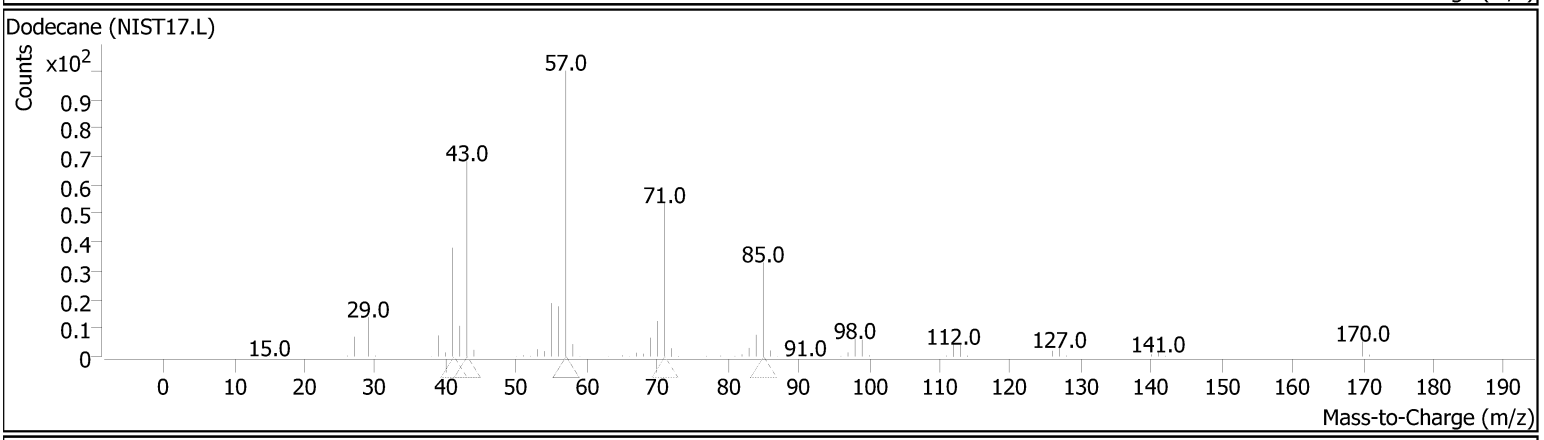



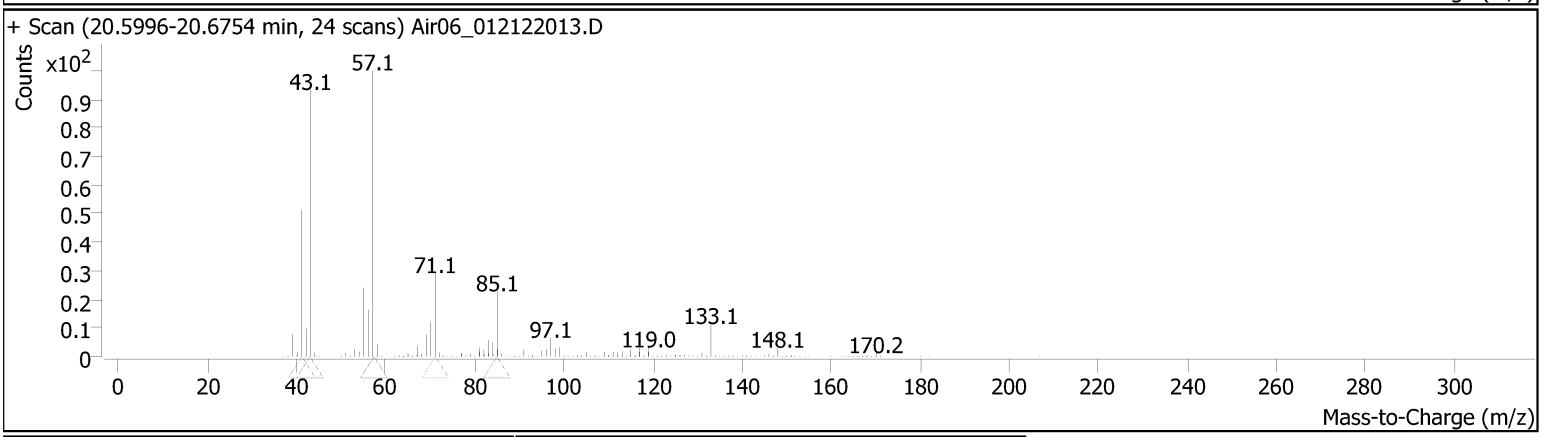
# Library Search Results - NonTarget Hits with Details

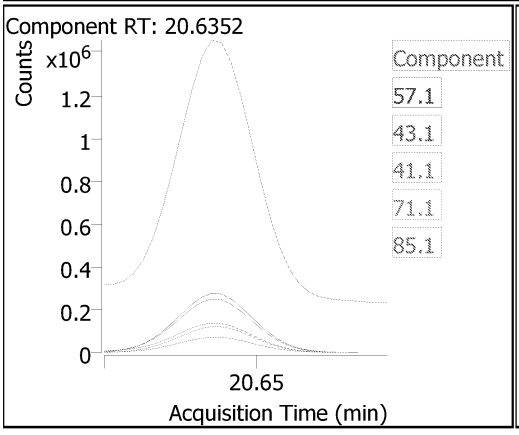
Agilent Technologies

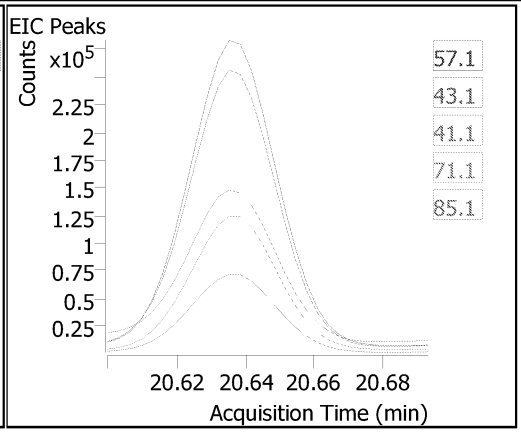
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.6352 | Dodecane | 2833453.1 | 92.9 | 112-40-3 | C12H26 | 5.929 |



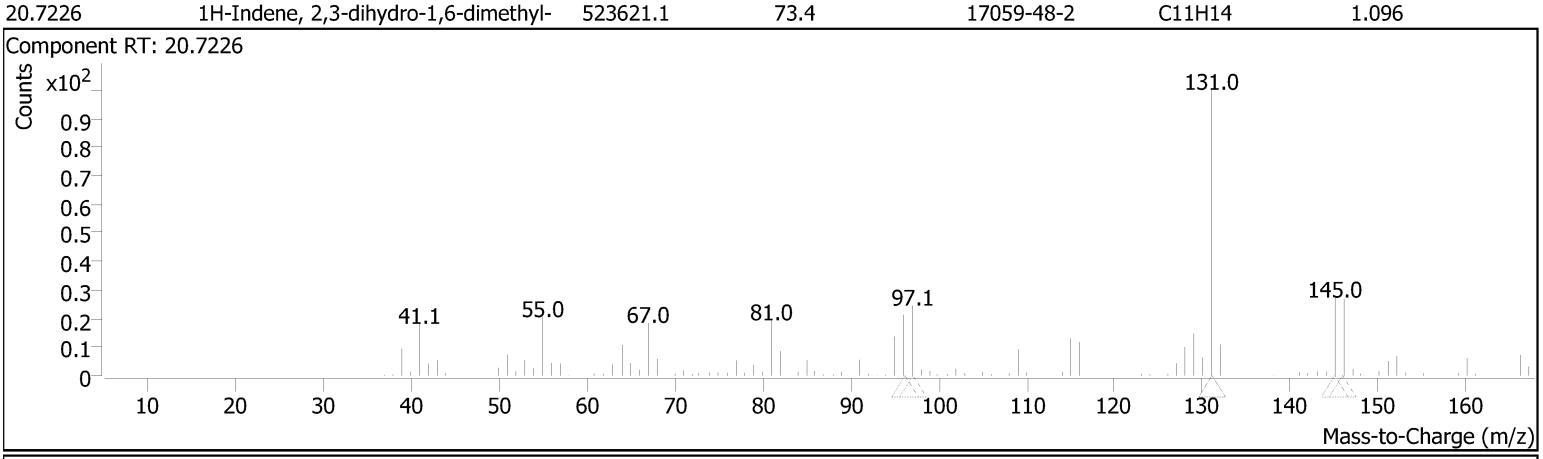



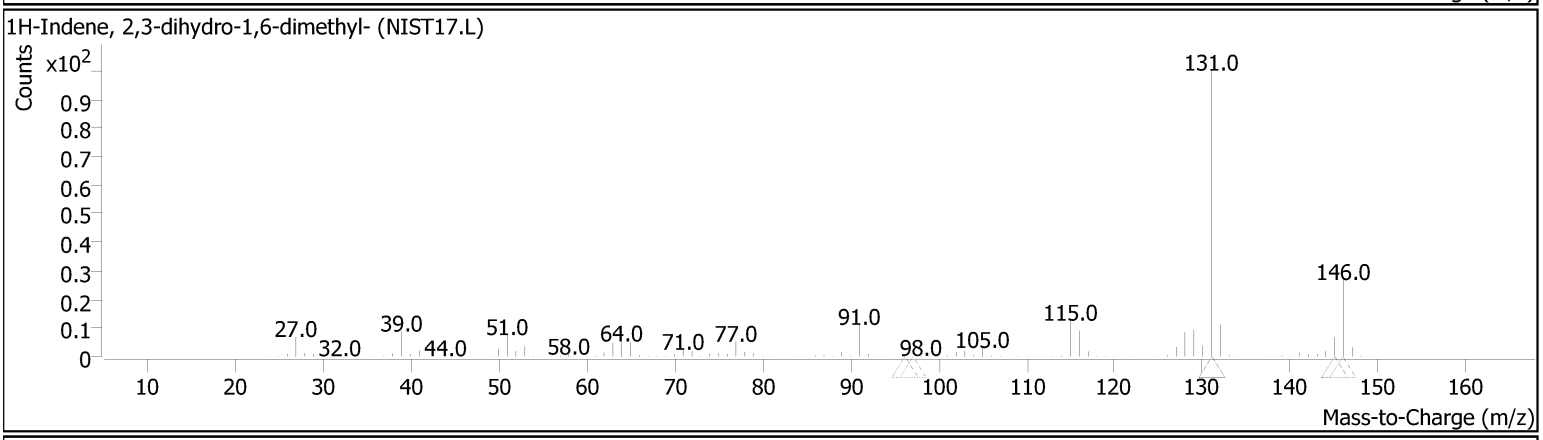



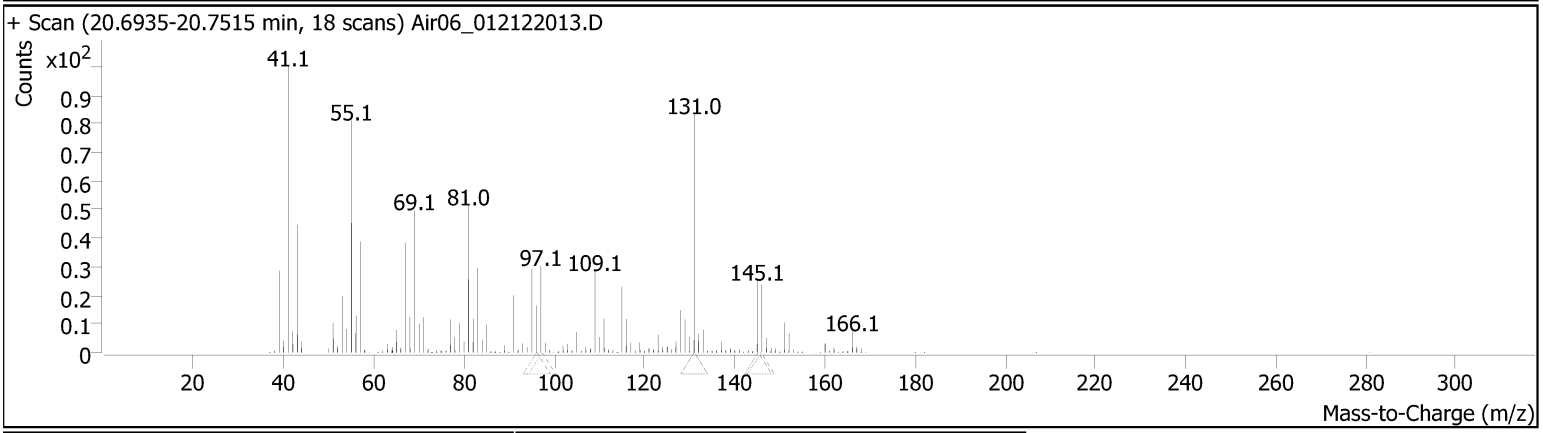



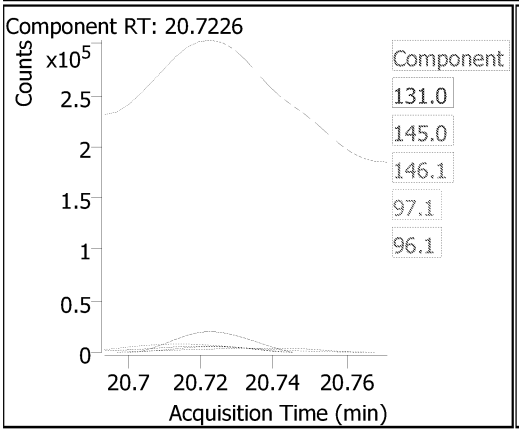


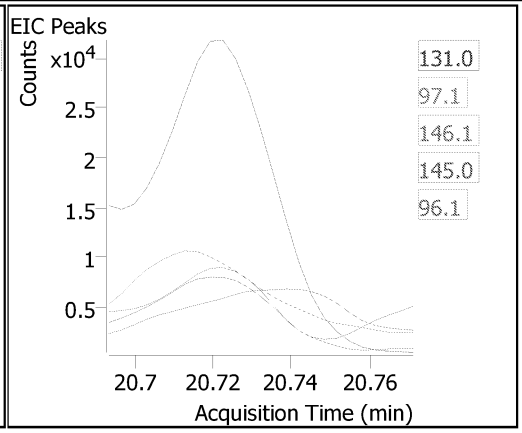

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.7226 | 1H-Indene, 2,3-dihydro-1,6-dimethyl- | 523621.1 | 73.4 | 17059-48-2 | C11H14 | 1.096 |

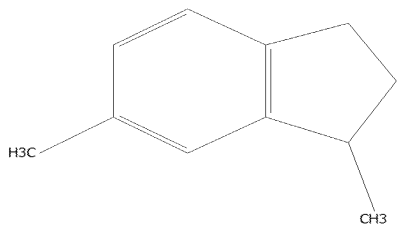


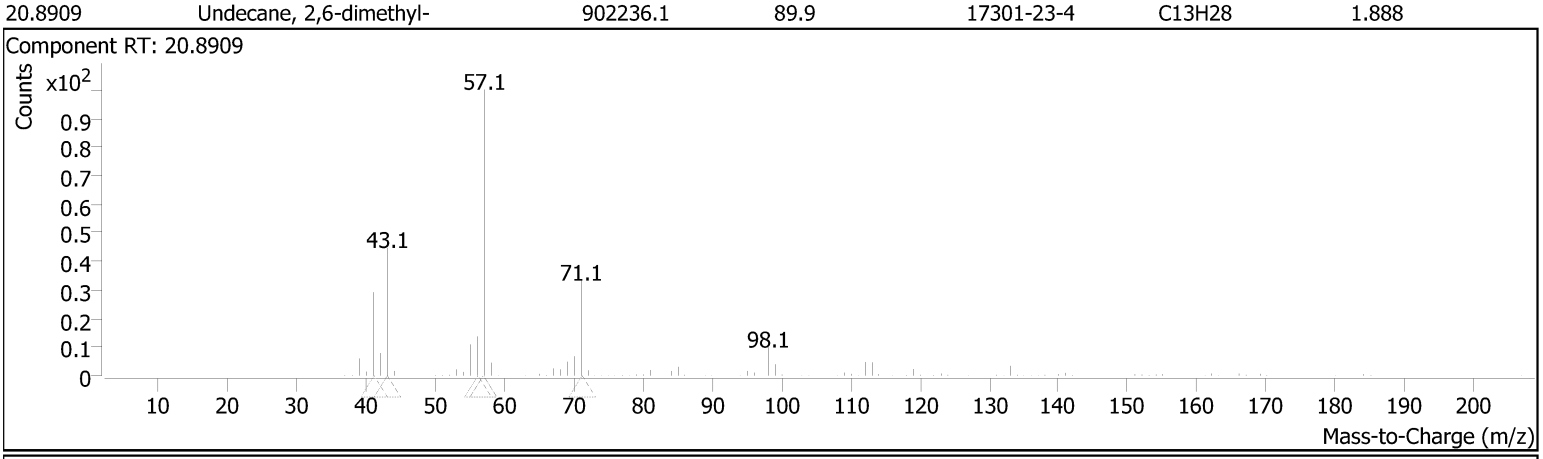



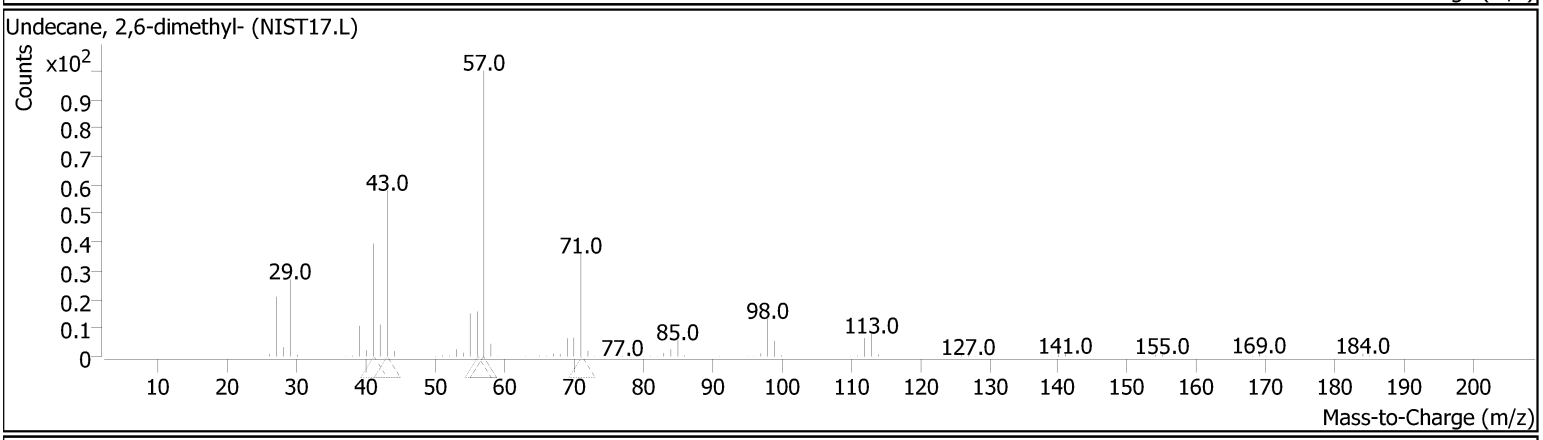



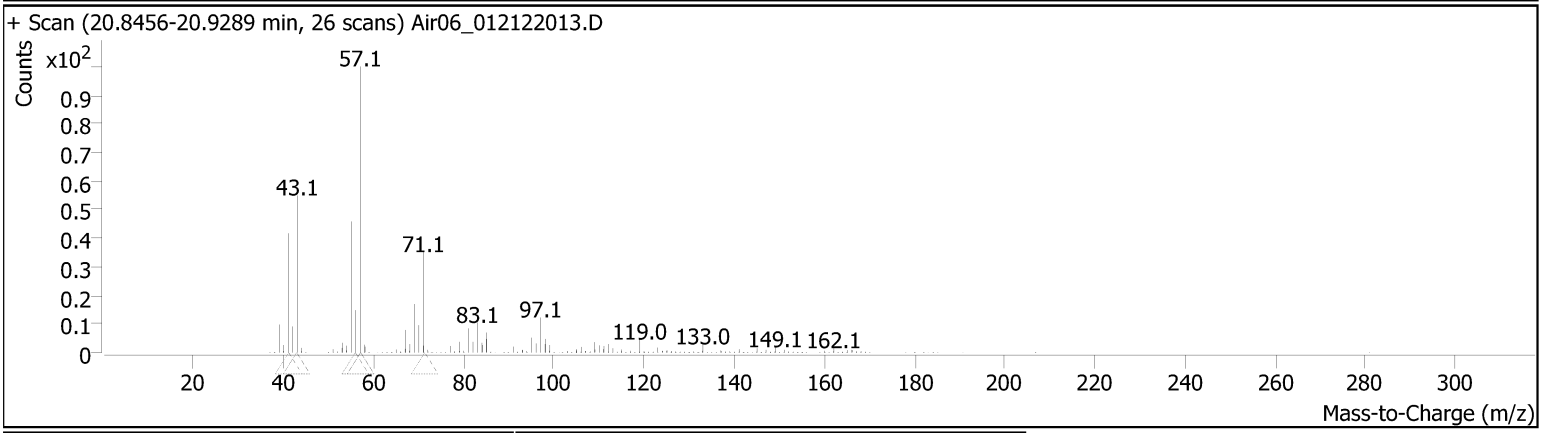
# Library Search Results - NonTarget Hits with Details

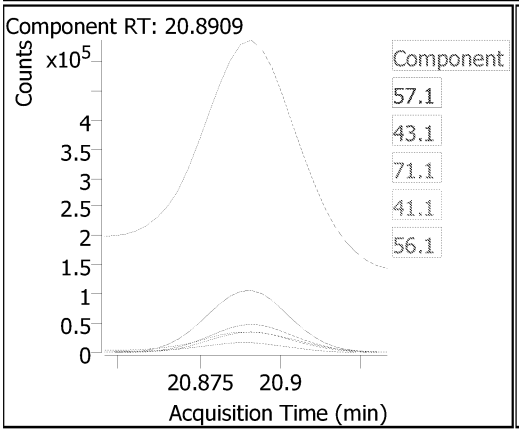
Agilent Technologies

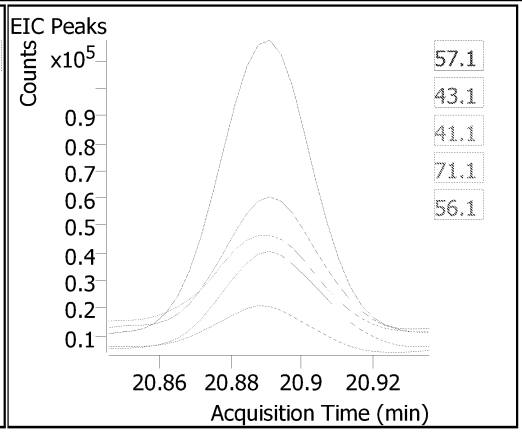
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.8909 | Undecane, 2,6-dimethyl- | 902236.1 | 89.9 | 17301-23-4 | C13H28 | 1.888 |

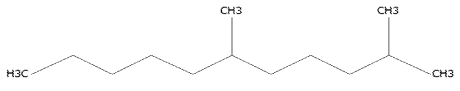


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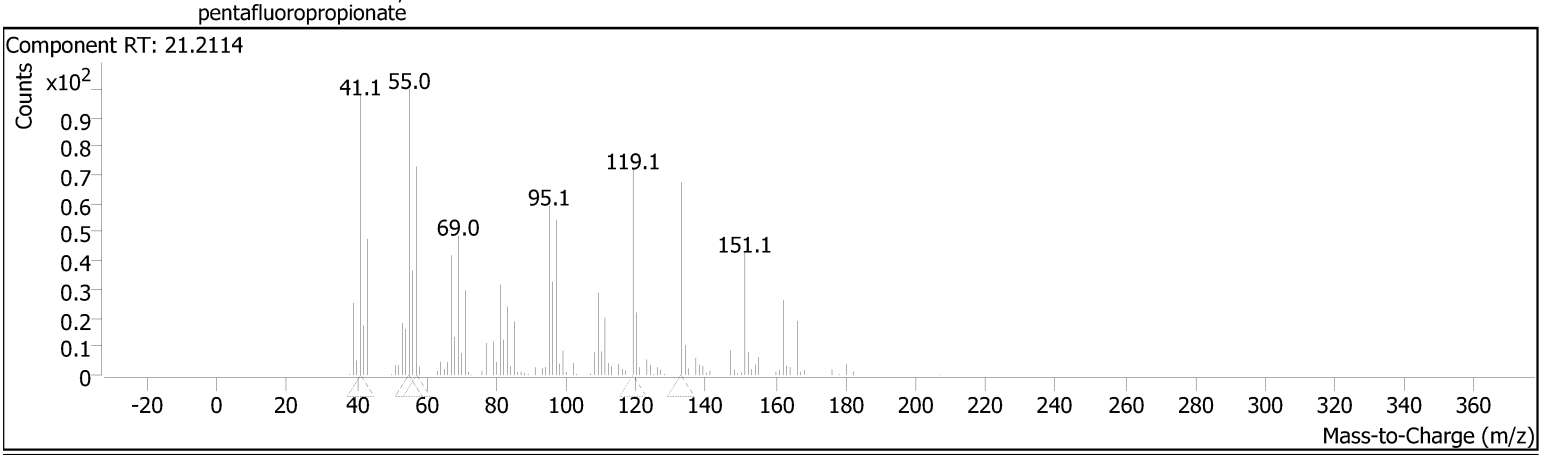
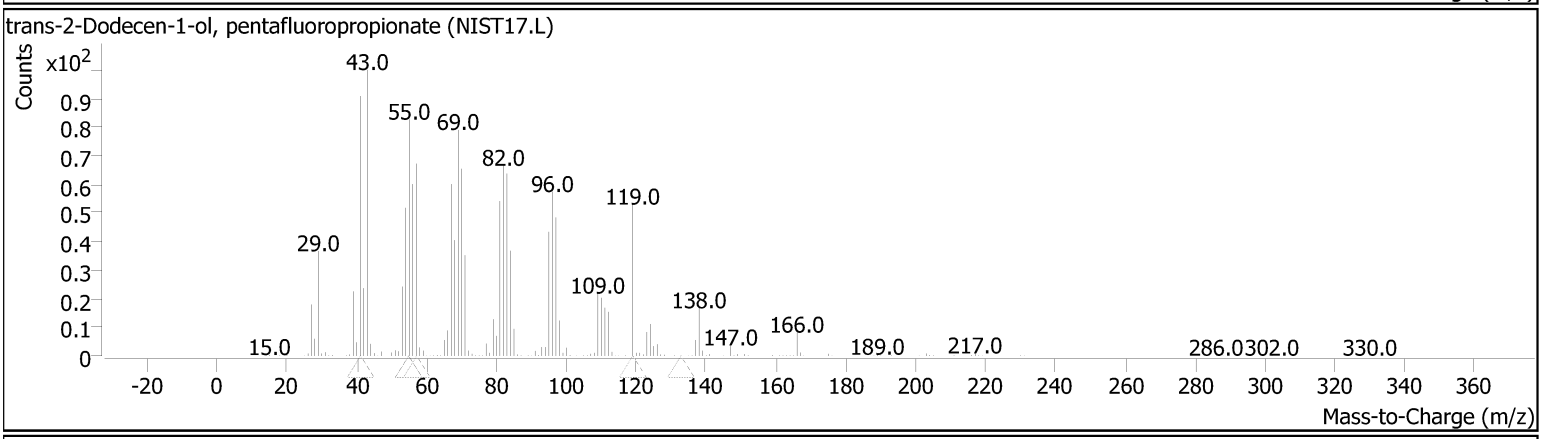
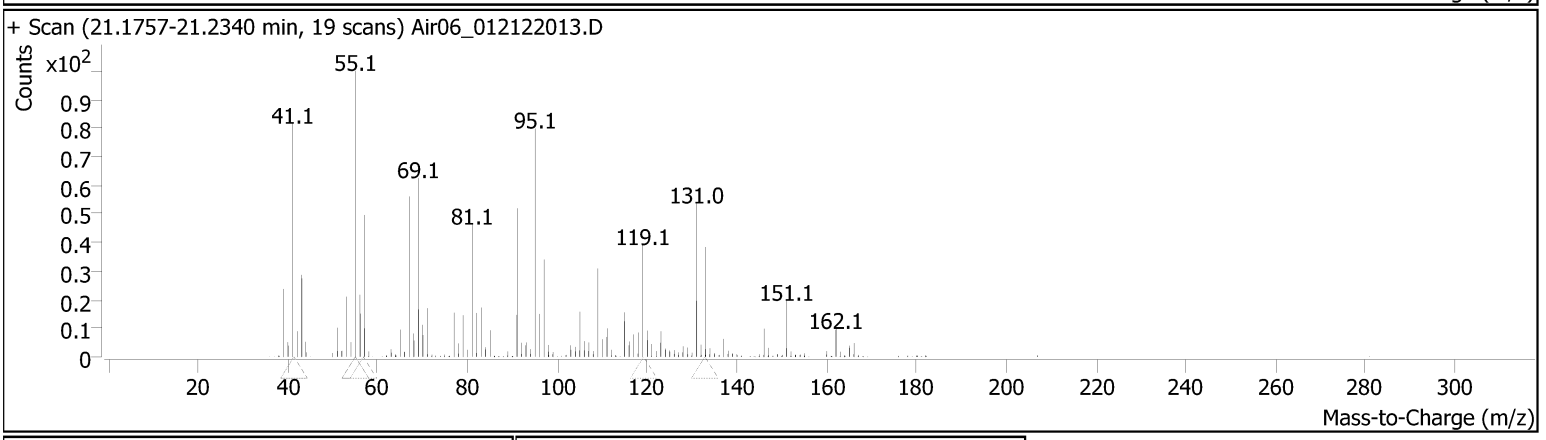
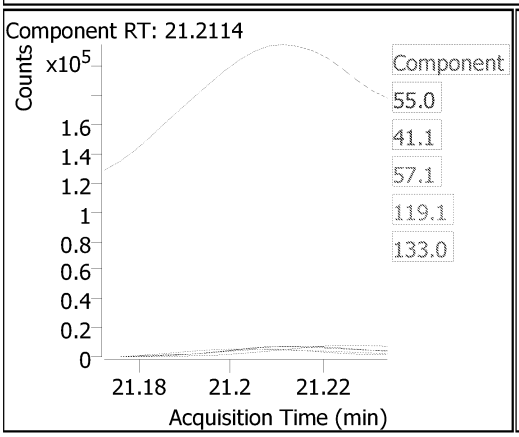
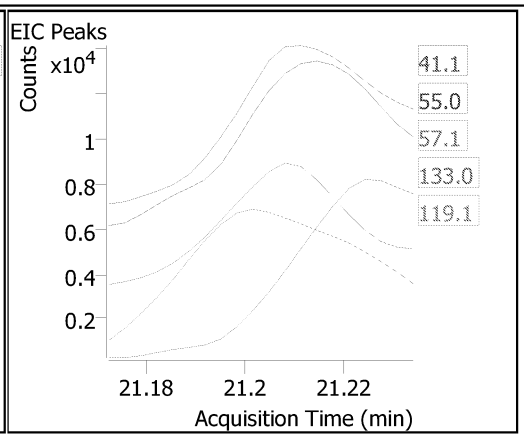
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.2114 | trans-2-Dodecen-1-ol, pentafluoropropionate | 117503.6 | 73.6 | 1000352-26-1 | C15H23F5O2 | 0.2459 |

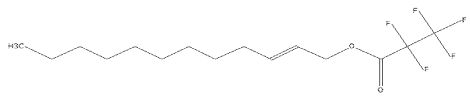


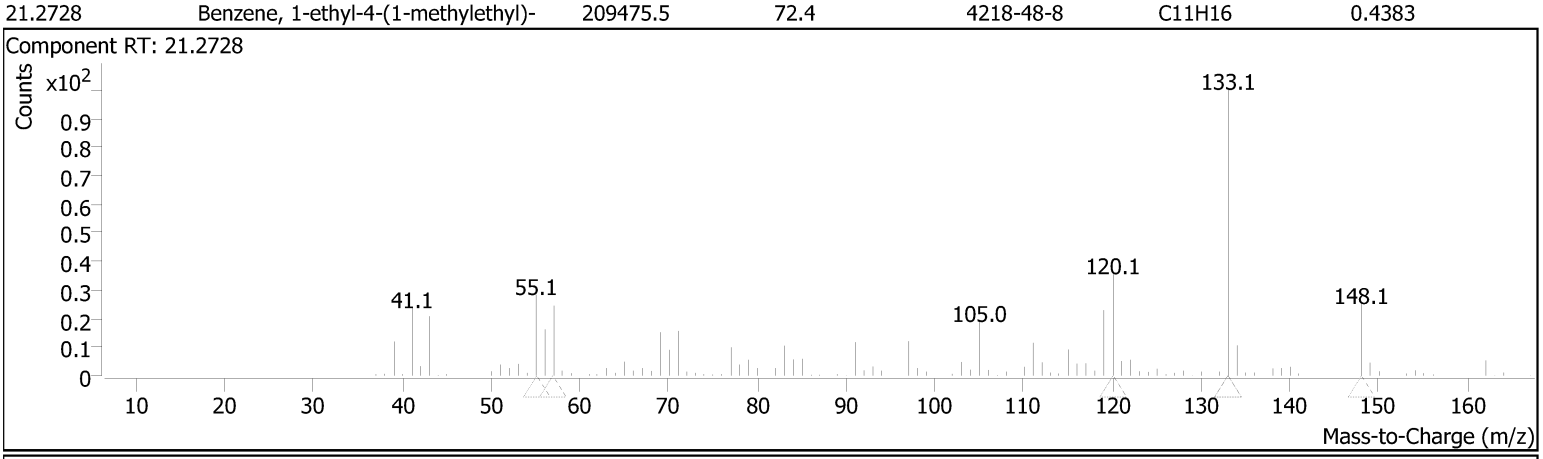



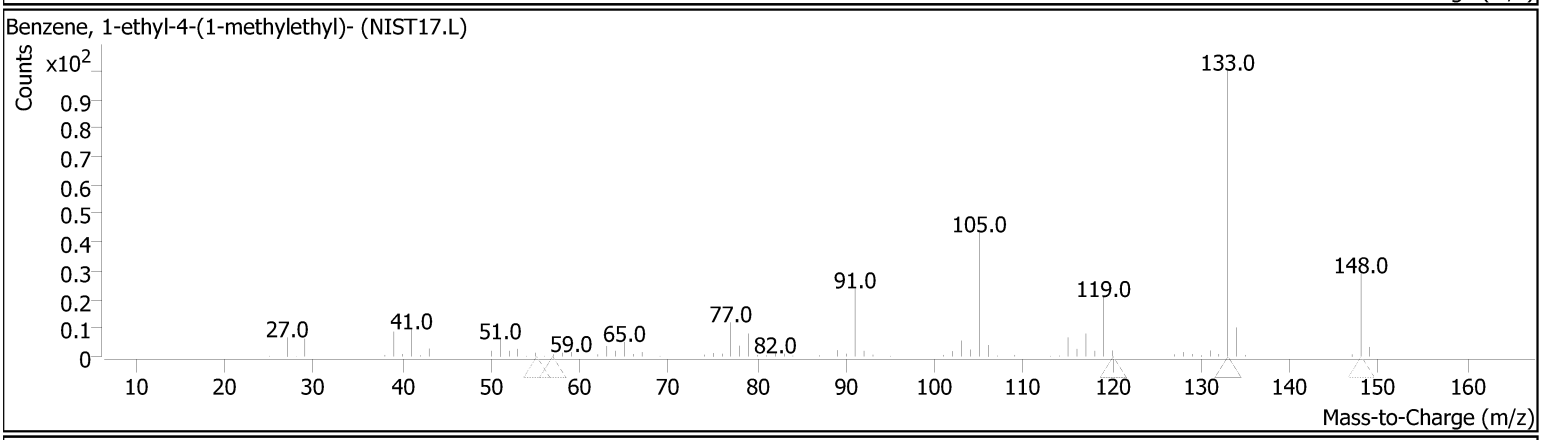



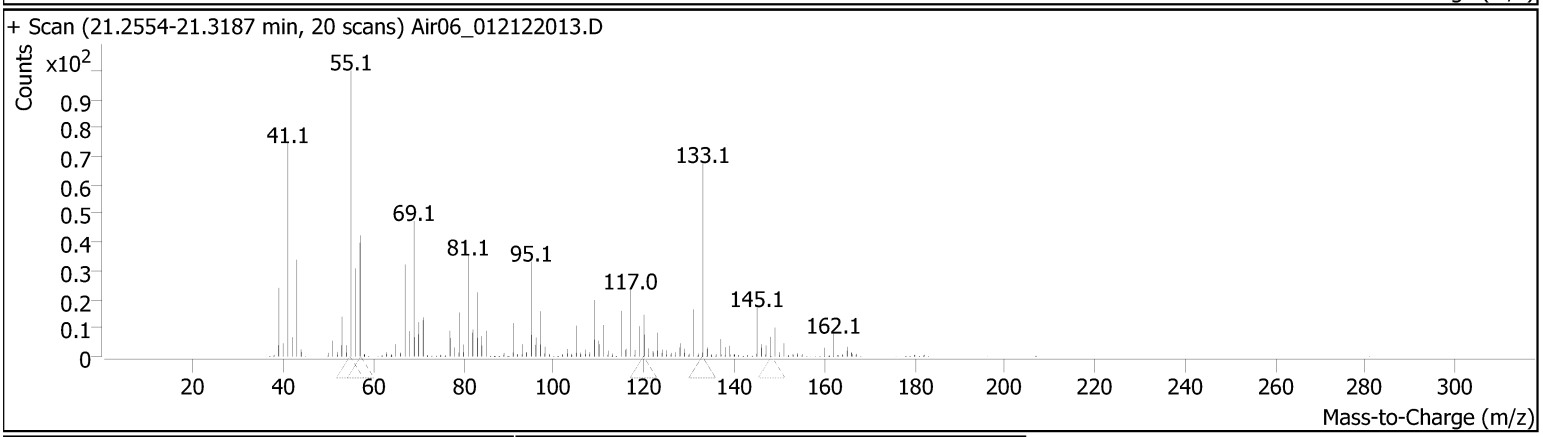



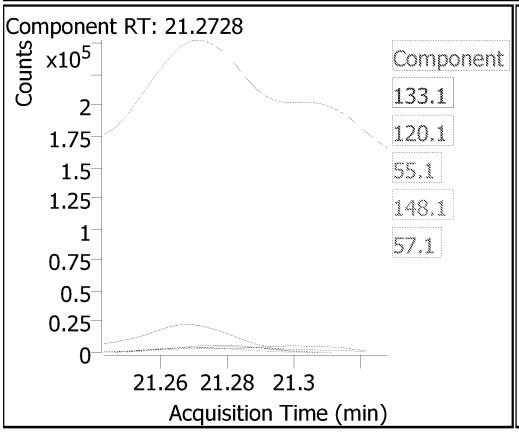



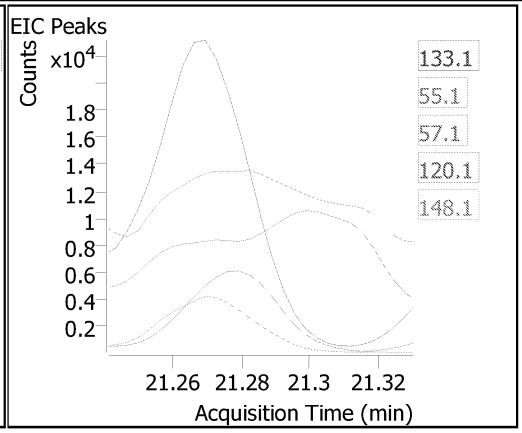
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.2728 | Benzene, 1-ethyl-4-(1-methylethyl)- | 209475.5 | 72.4 | 4218-48-8 | C11H16 | 0.4383 |

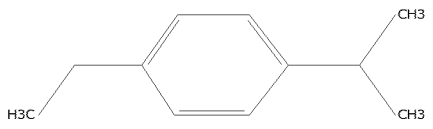


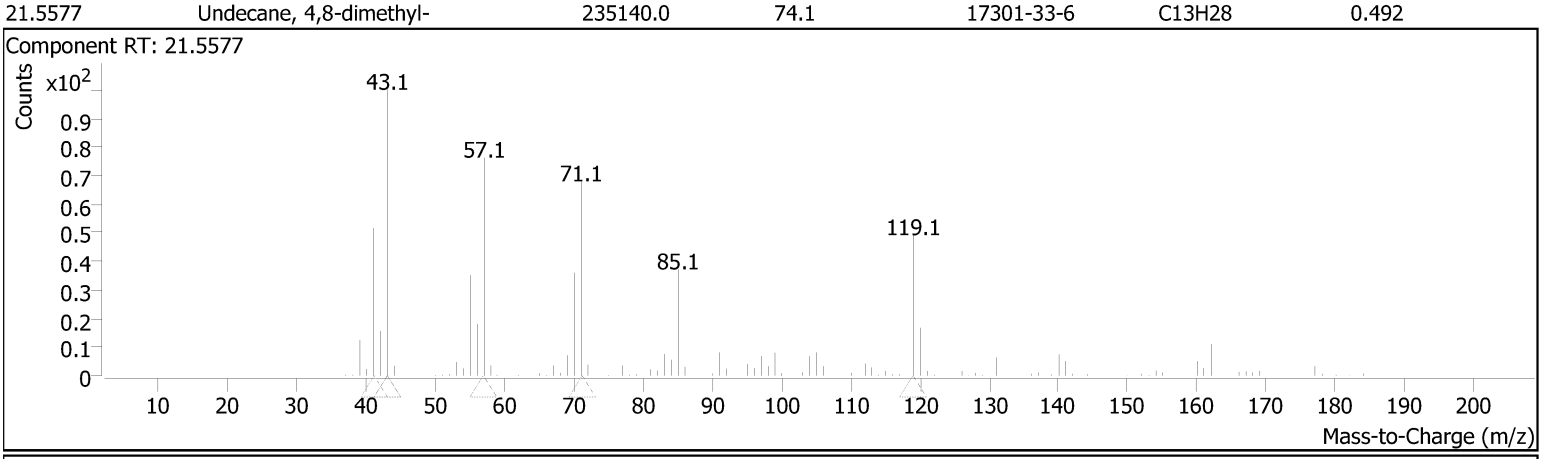



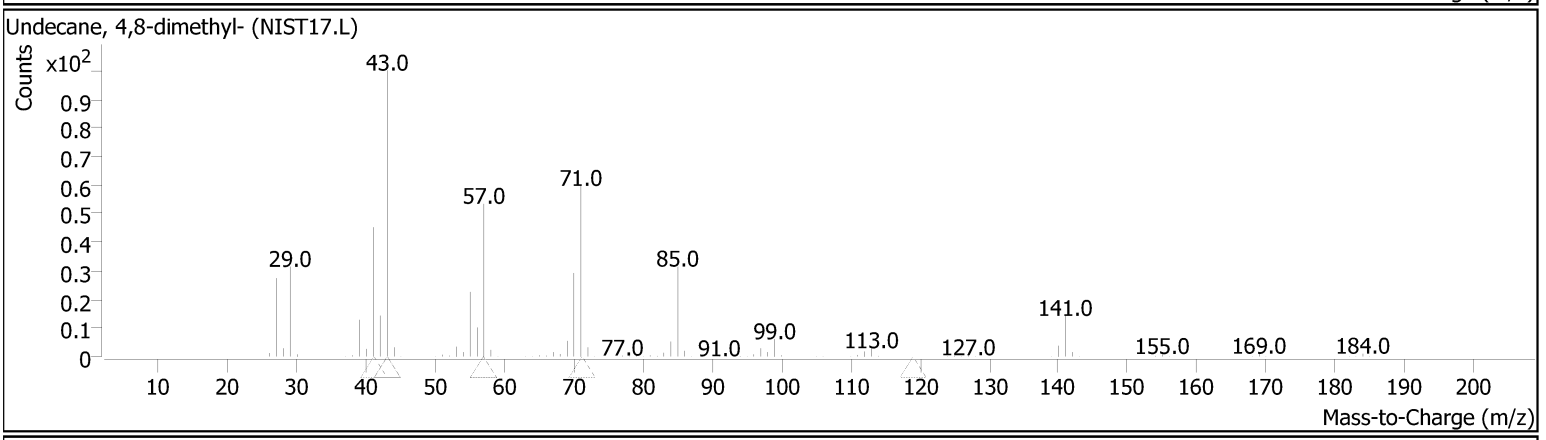



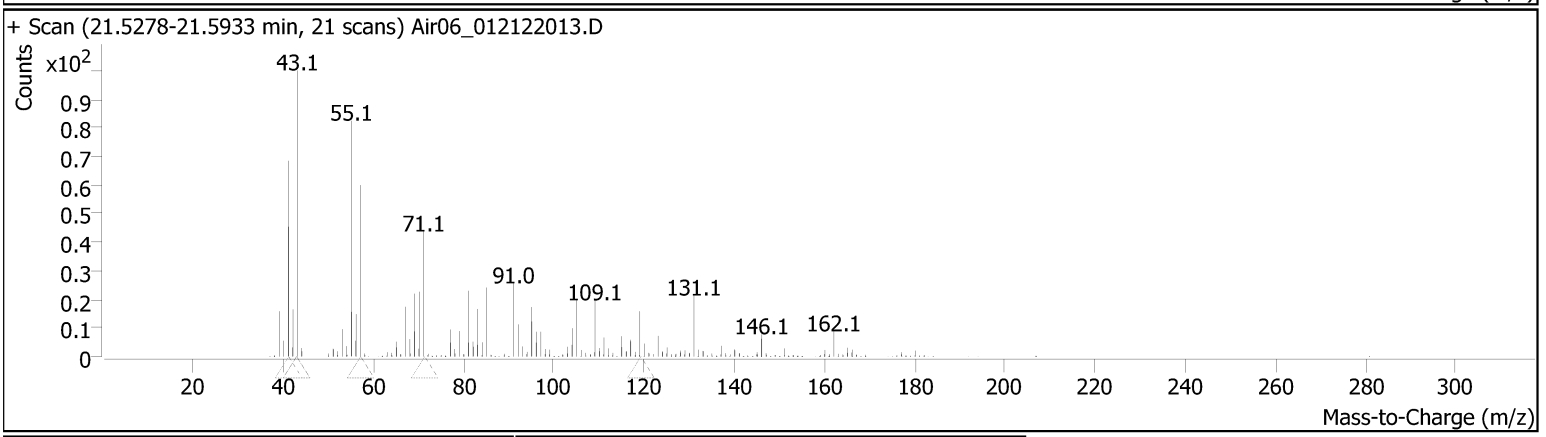



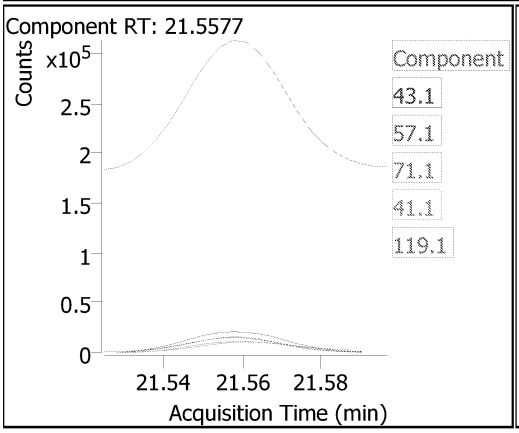



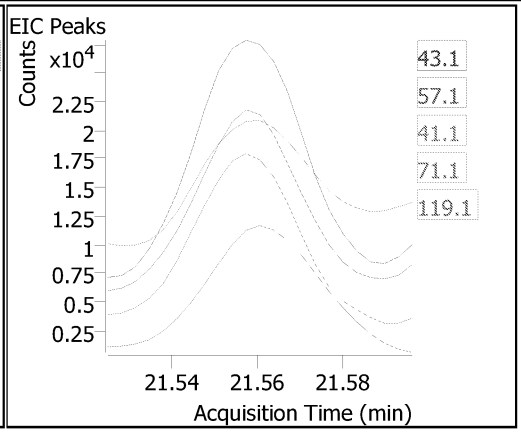
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.5577 | Undecane, 4,8-dimethyl- | 235140.0 | 74.1 | 17301-33-6 | C13H28 | 0.492 |

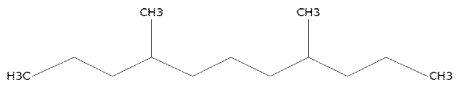


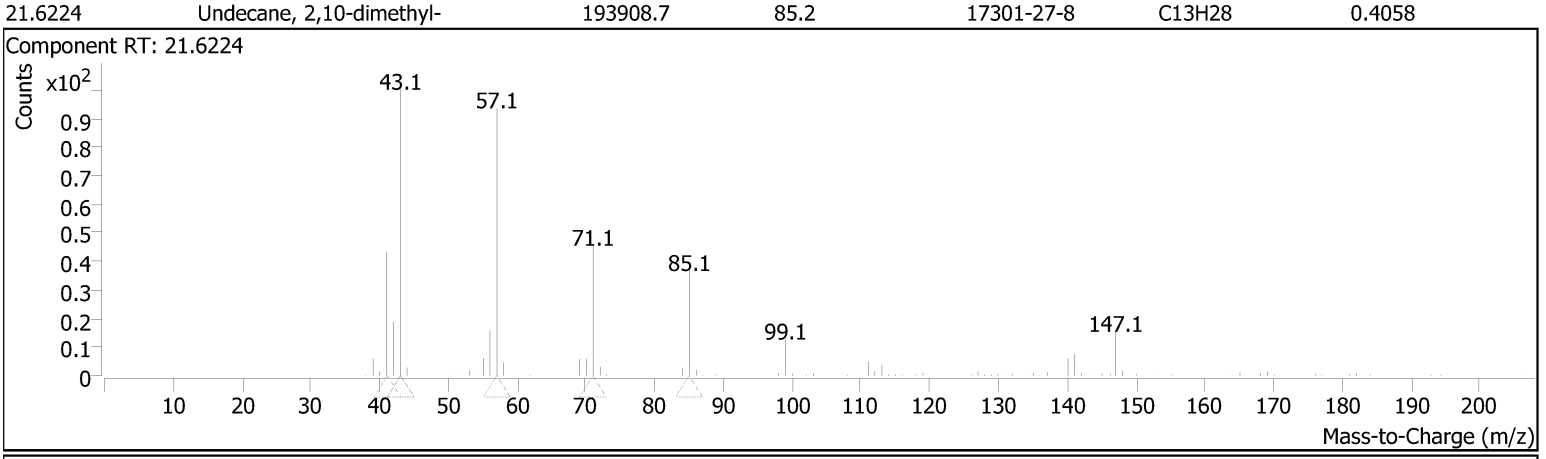



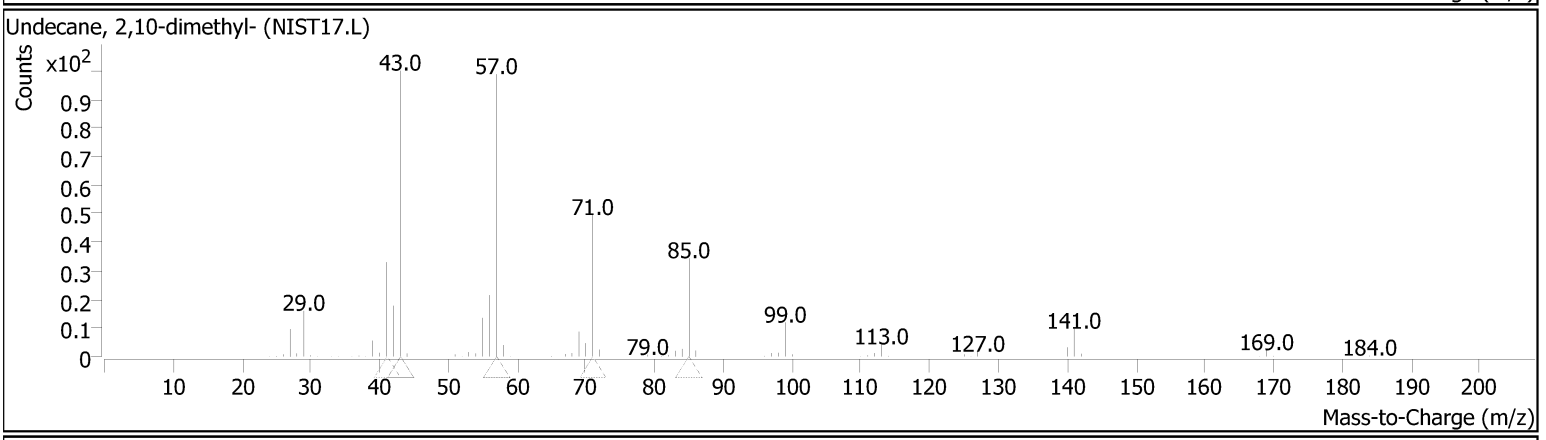



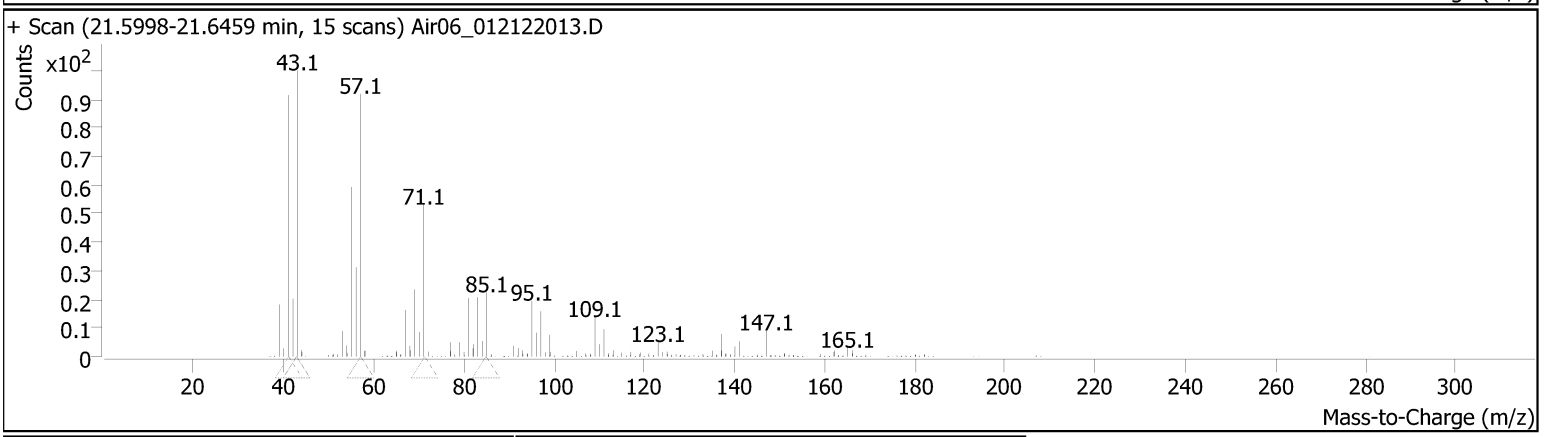



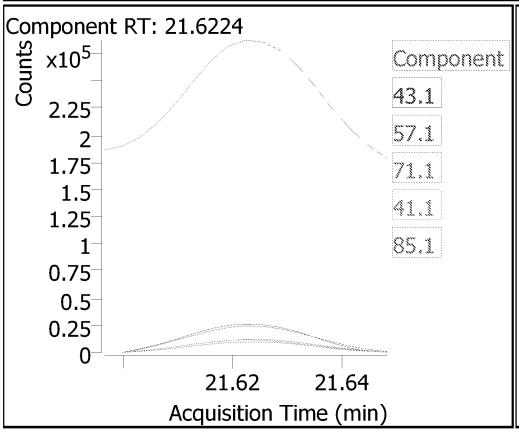



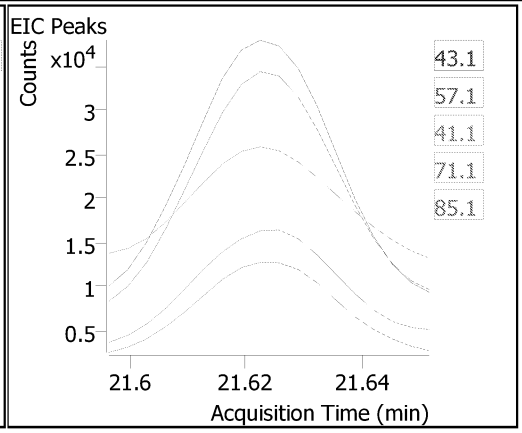
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.6224 | Undecane, 2,10-dimethyl- | 193908.7 | 85.2 | 17301-27-8 | C13H28 | 0.4058 |

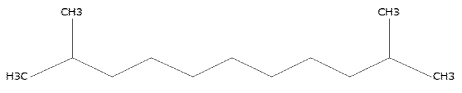


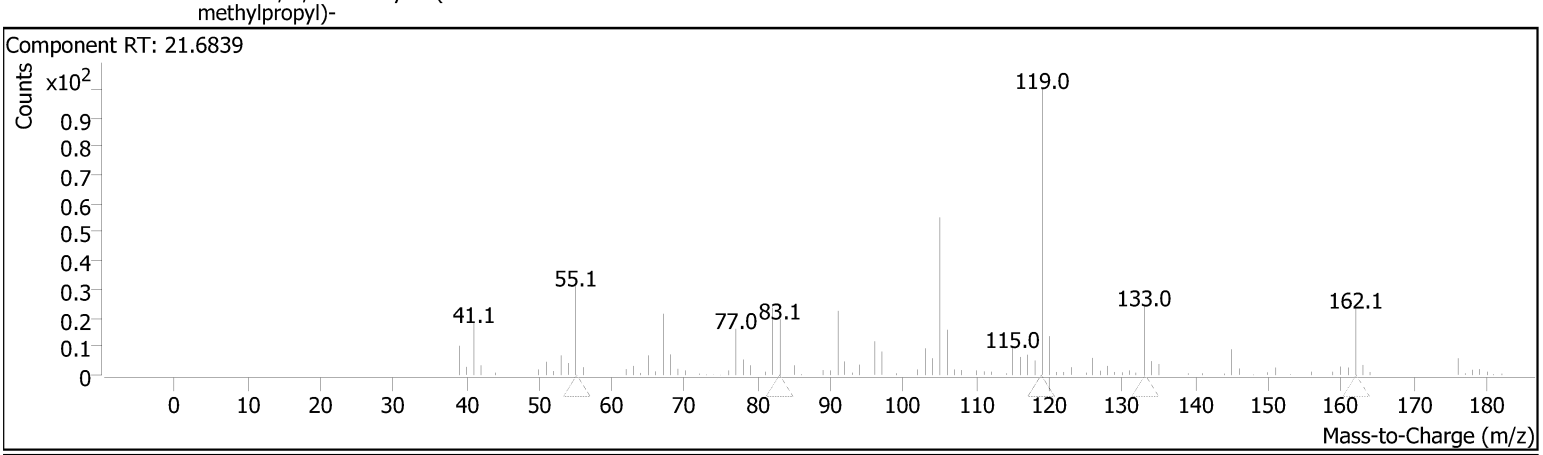



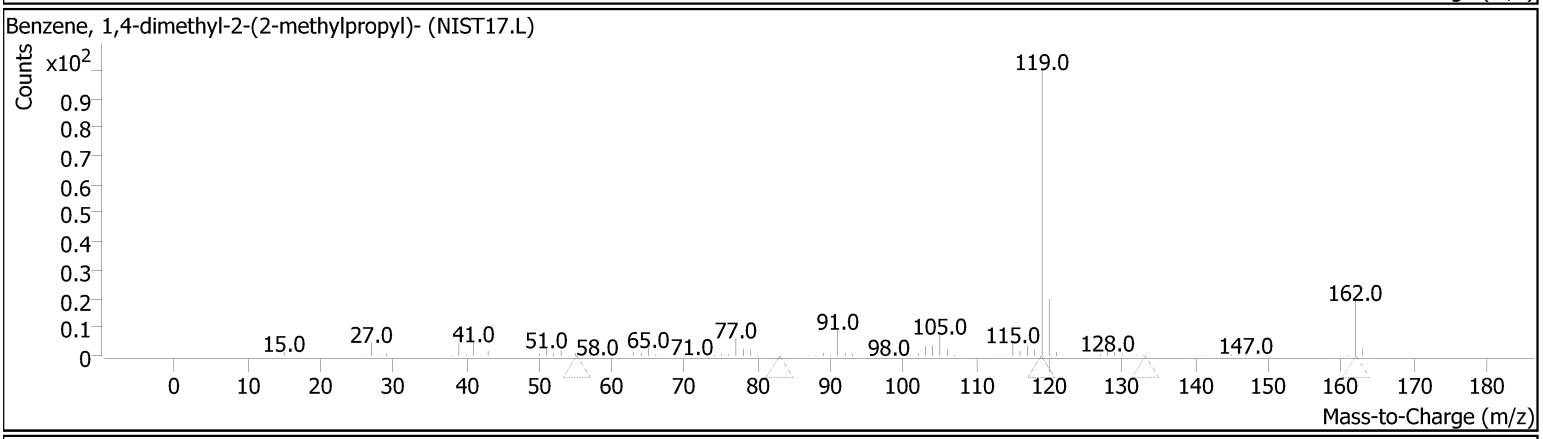



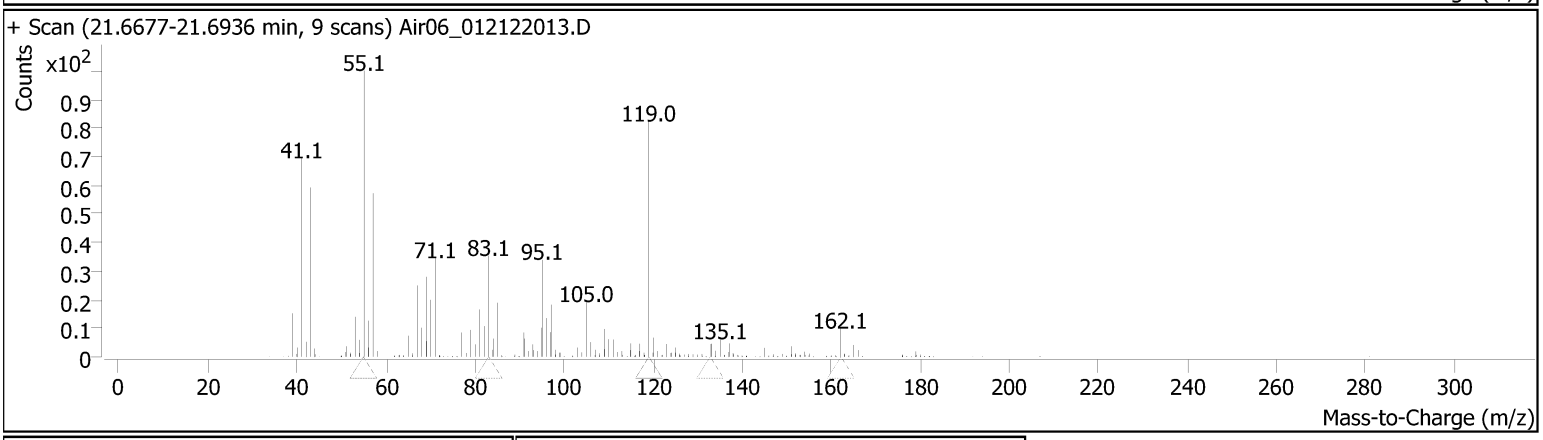



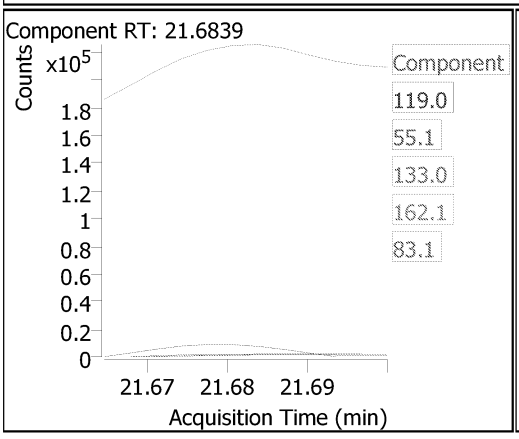



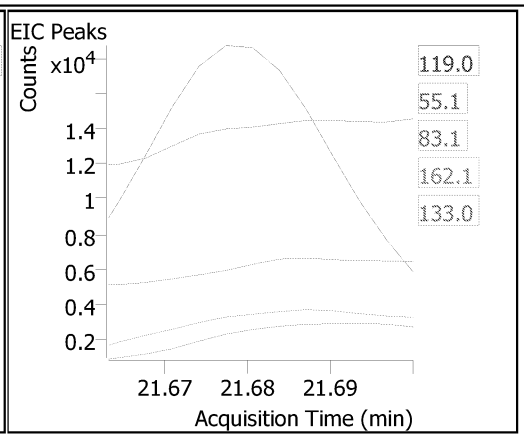
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.6839 | Benzene, 1,4-dimethyl-2-(2-methylpropyl)- | 66125.5 | 73.3 | 55669-88-0 | C12H18 | 0.1384 |

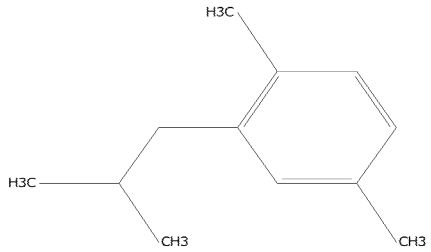


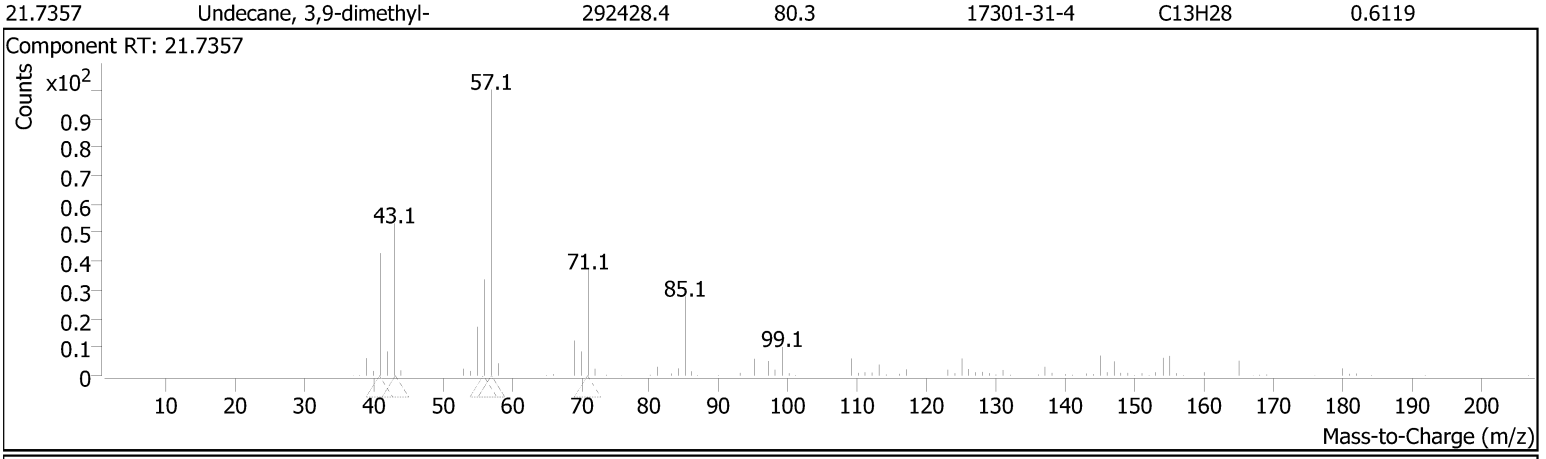



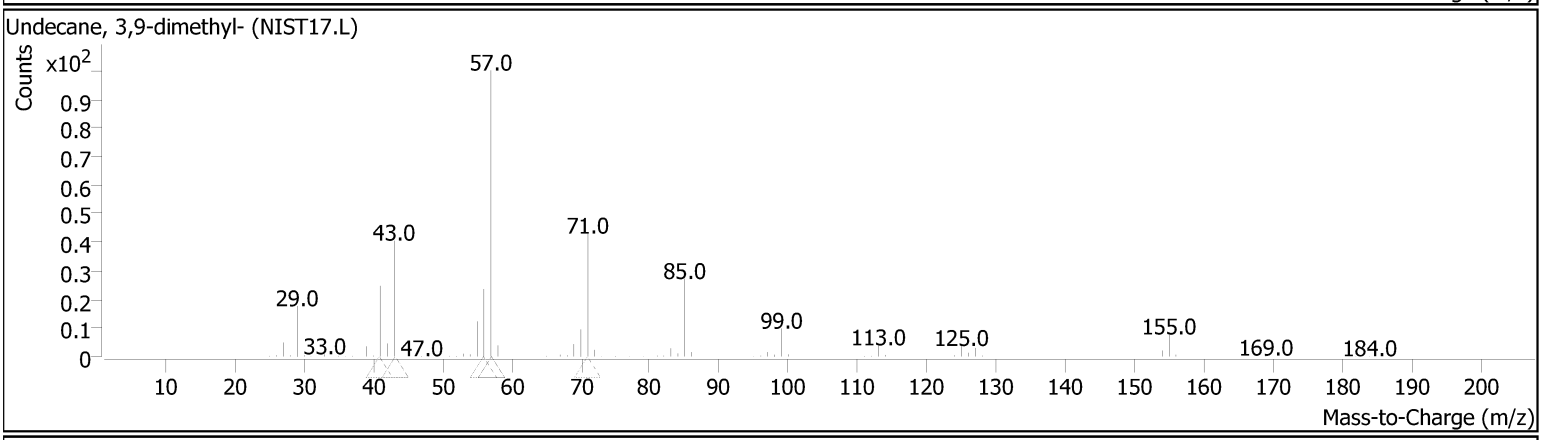



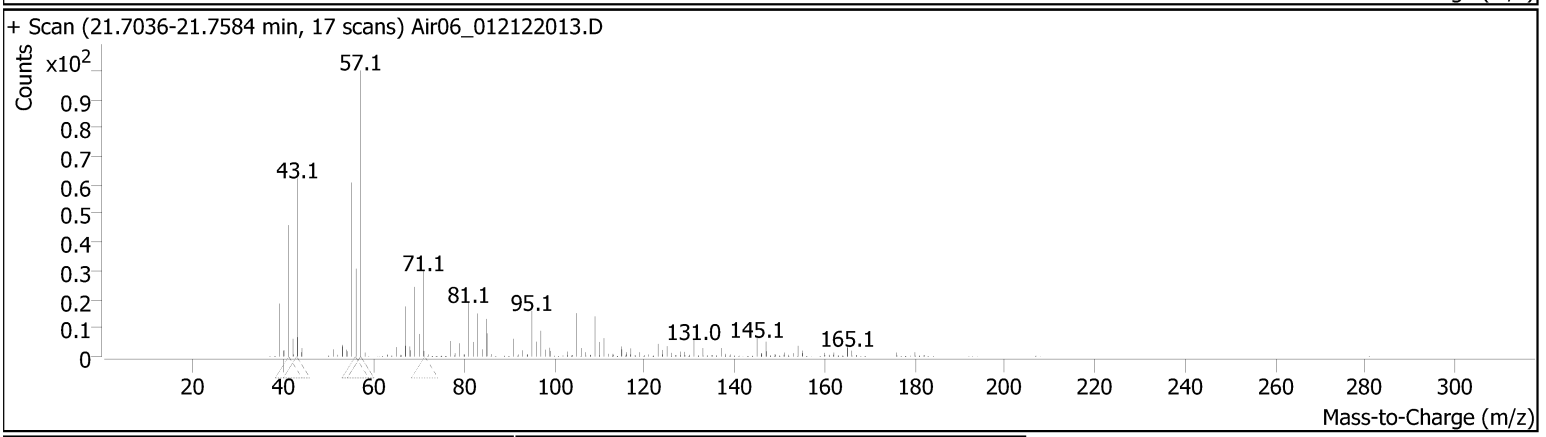



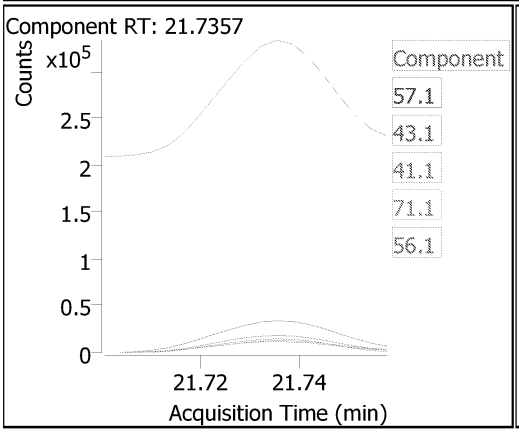



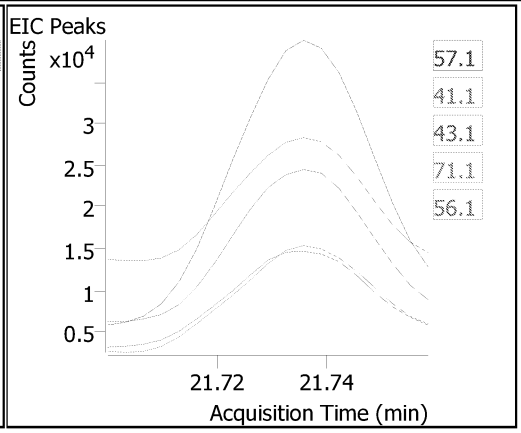
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7357 | Undecane, 3,9-dimethyl- | 292428.4 | 80.3 | 17301-31-4 | C13H28 | 0.6119 |



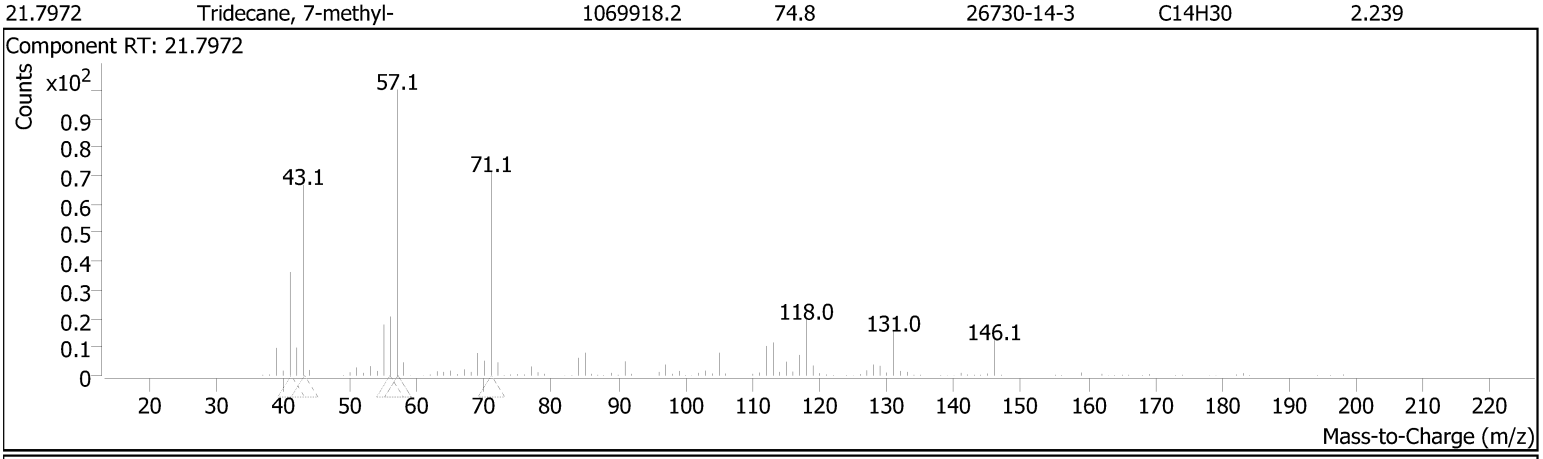



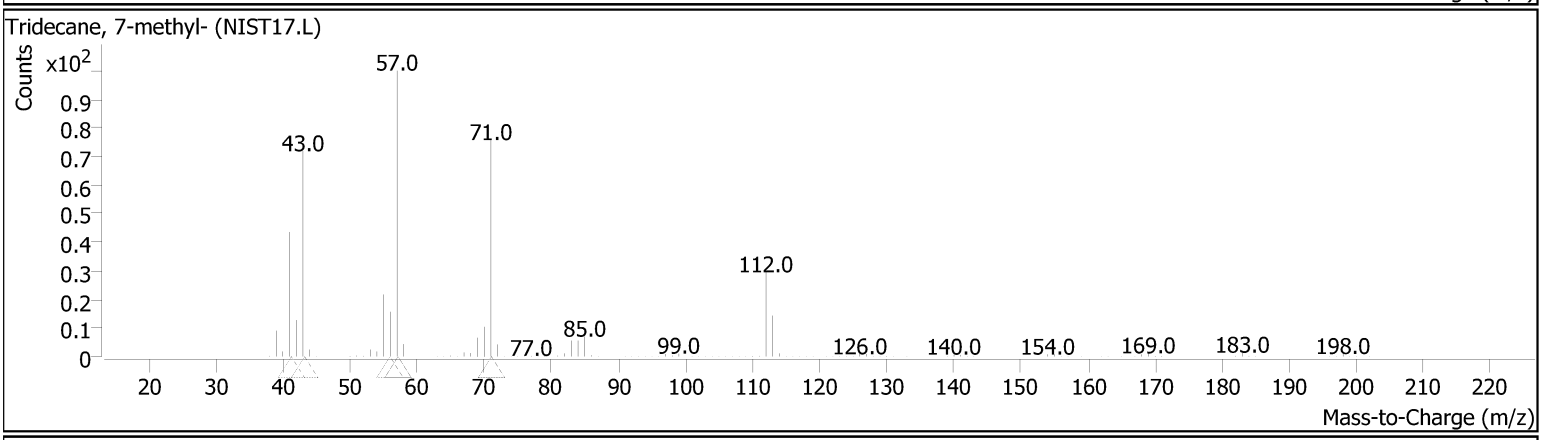



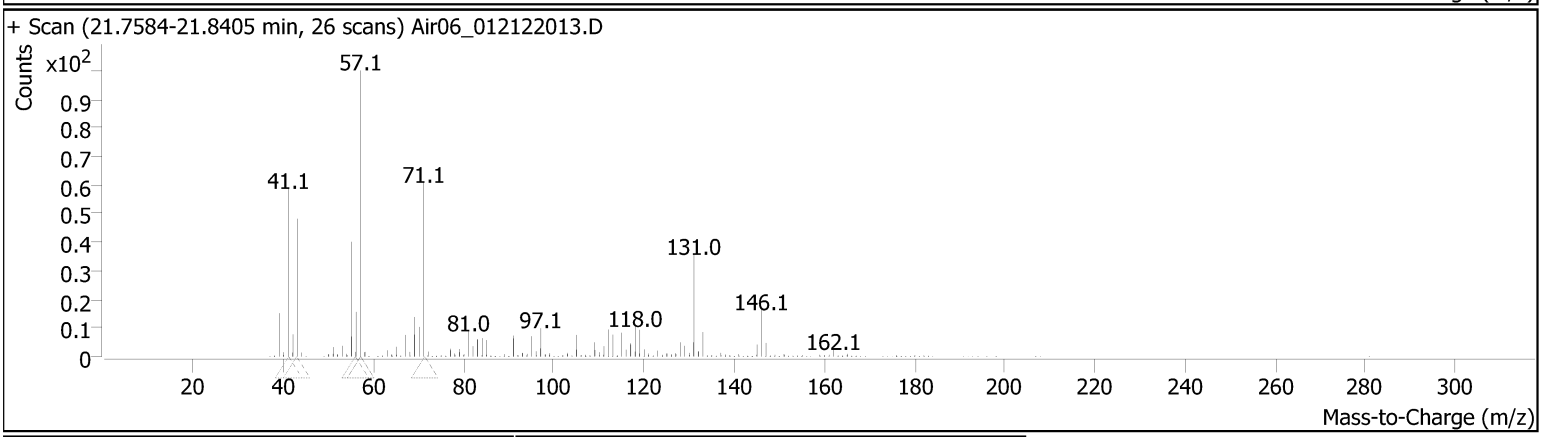



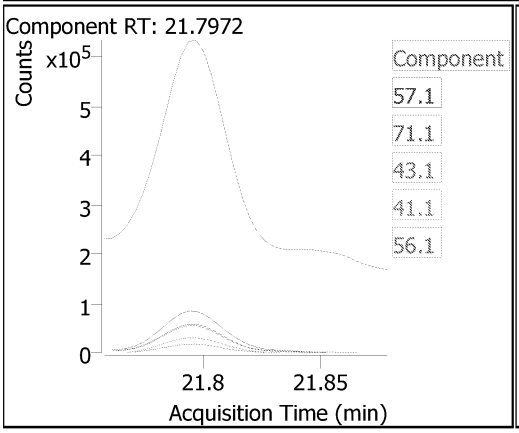


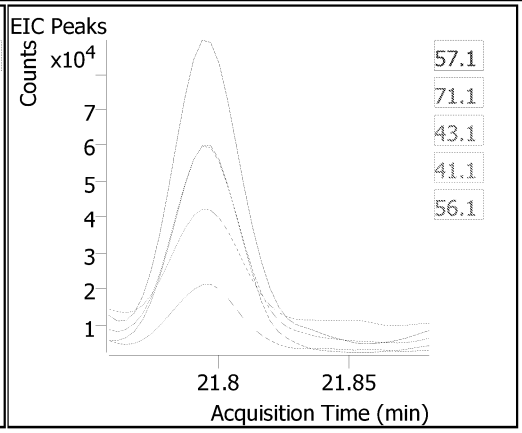

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7972 | Tridecane, 7-methyl- | 1069918.2 | 74.8 | 26730-14-3 | C14H30 | 2.239 |

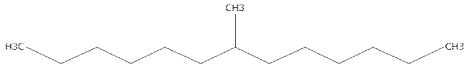


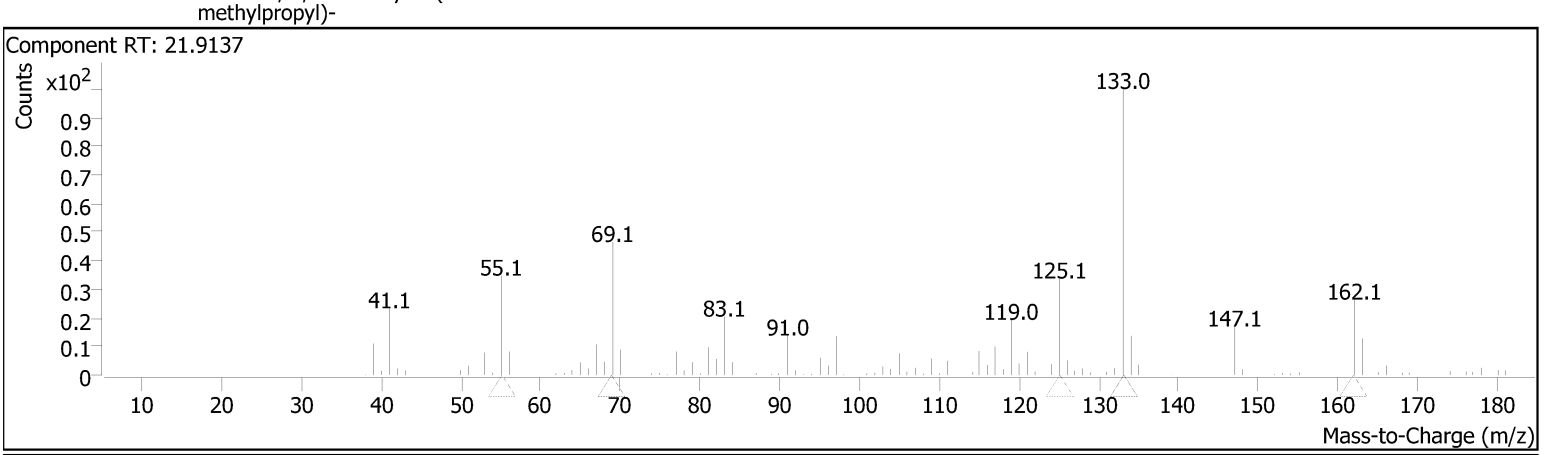



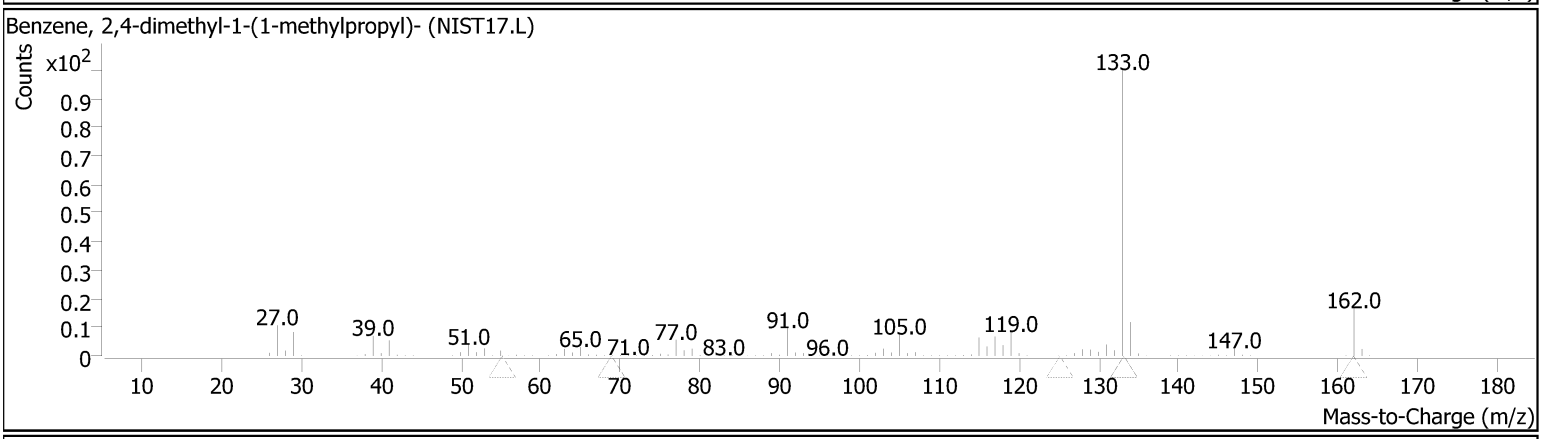



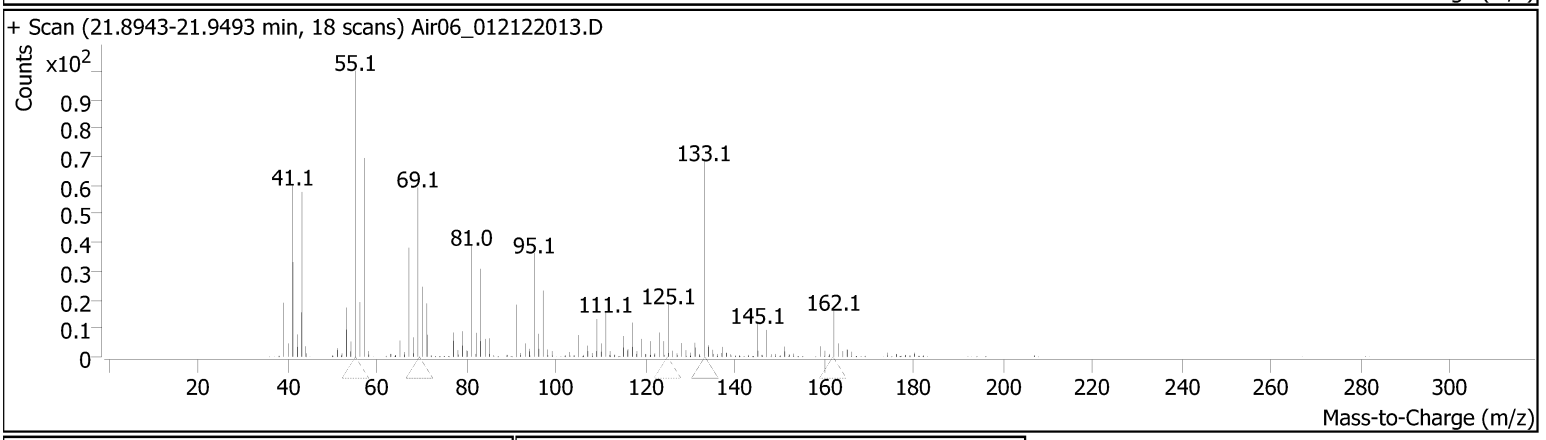



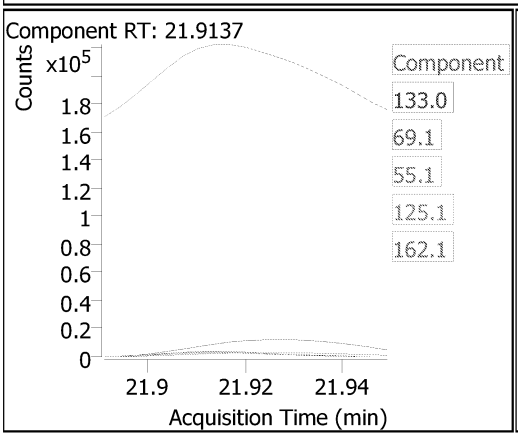



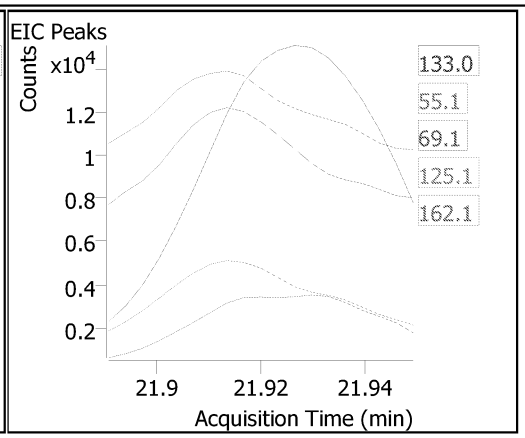
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.9137 | Benzene, 2,4-dimethyl-1-(1-methylpropyl)- | 102035.5 | 73.2 | 1483-60-9 | C12H18 | 0.2135 |

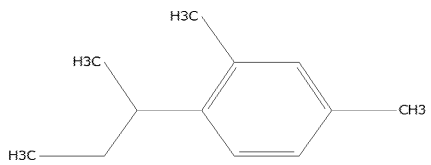


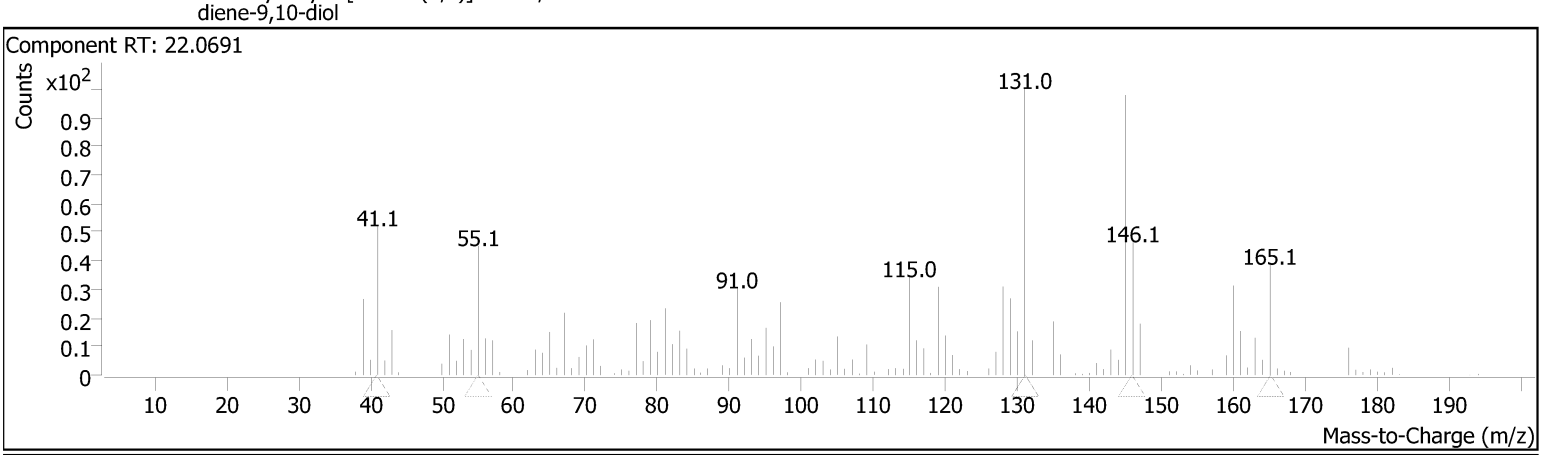



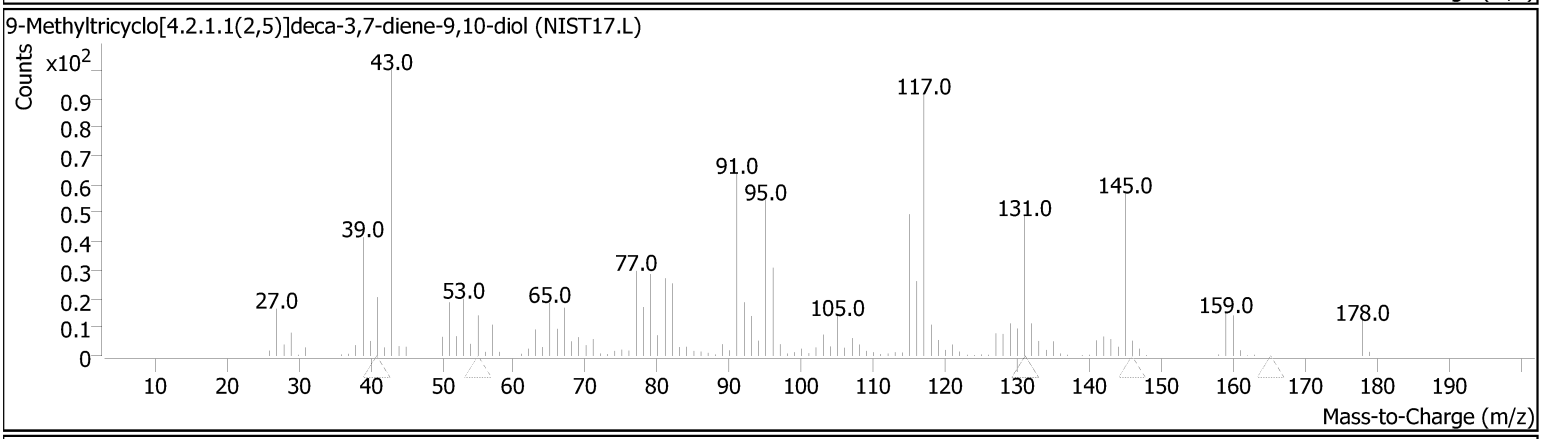



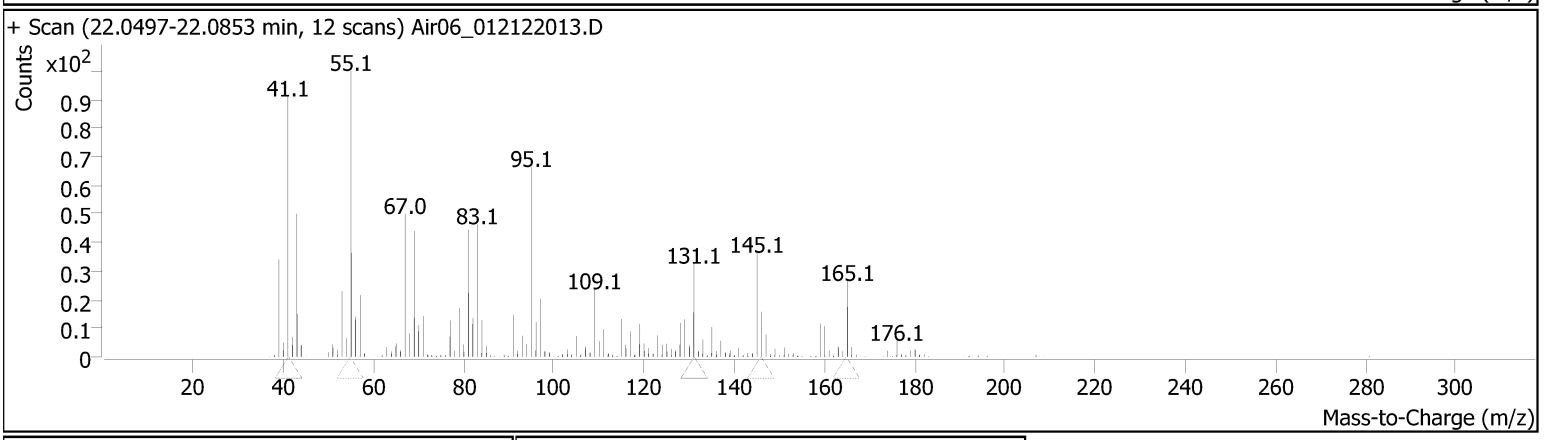



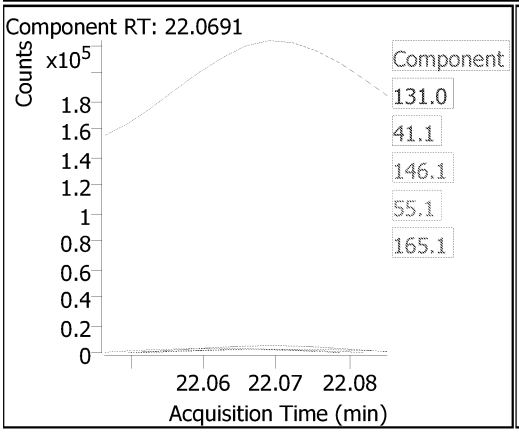



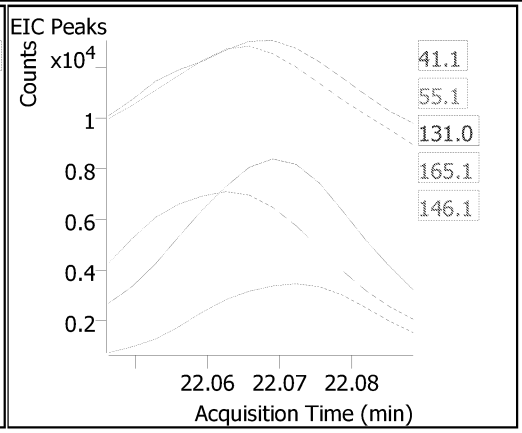
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.0691 | 9-Methyltricyclo[4.2.1.1(2,5)]deca-3,7-diene-9,10-diol | 83651.2 | 74.2 | 78323-73-6 | C11H14O2 | 0.175 |

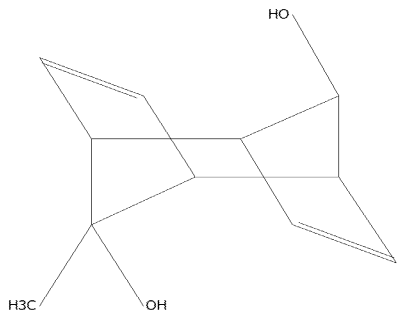


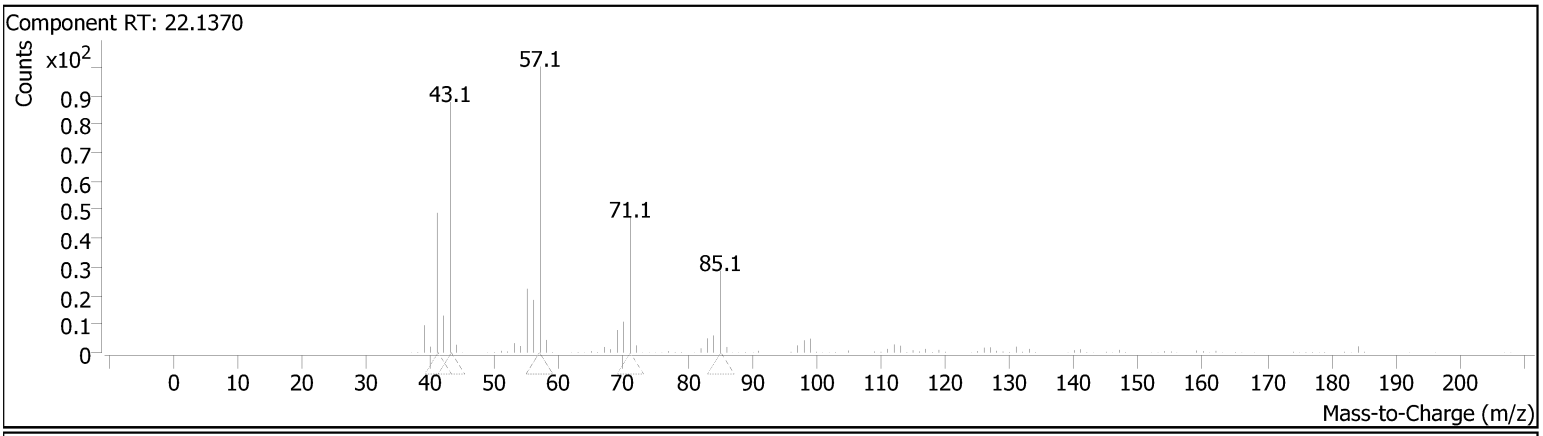



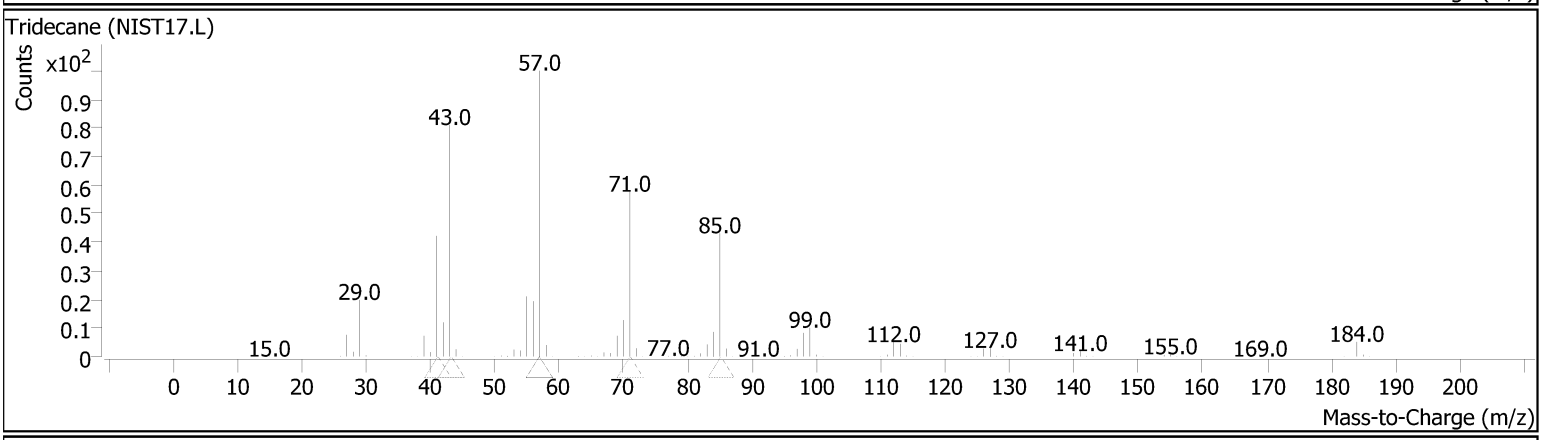



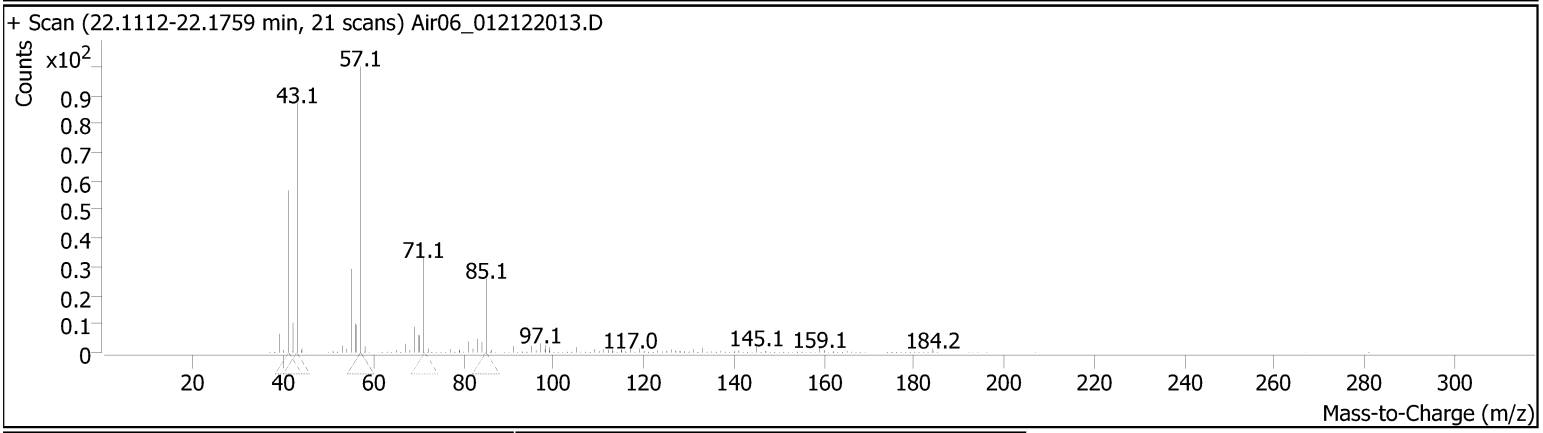



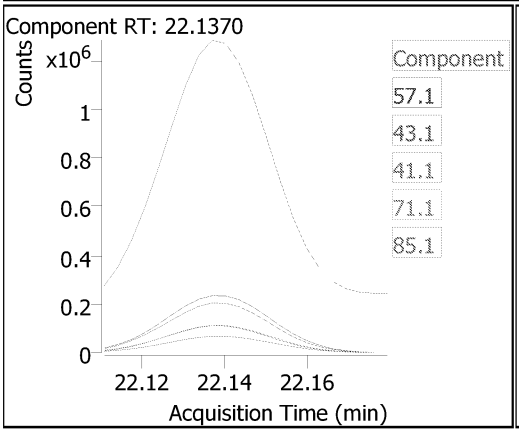



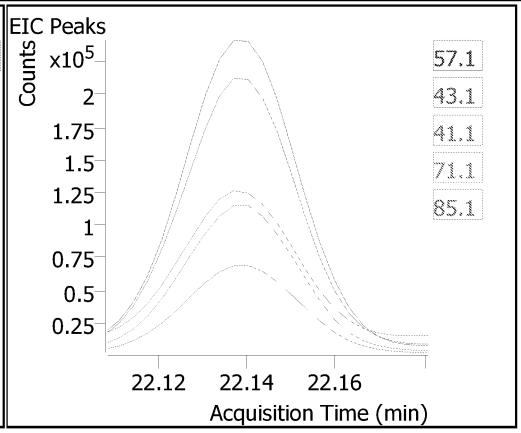
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.1370 | Tridecane | 1835410.6 | 93.2 | 629-50-5 | C13H28 | 3.841 |



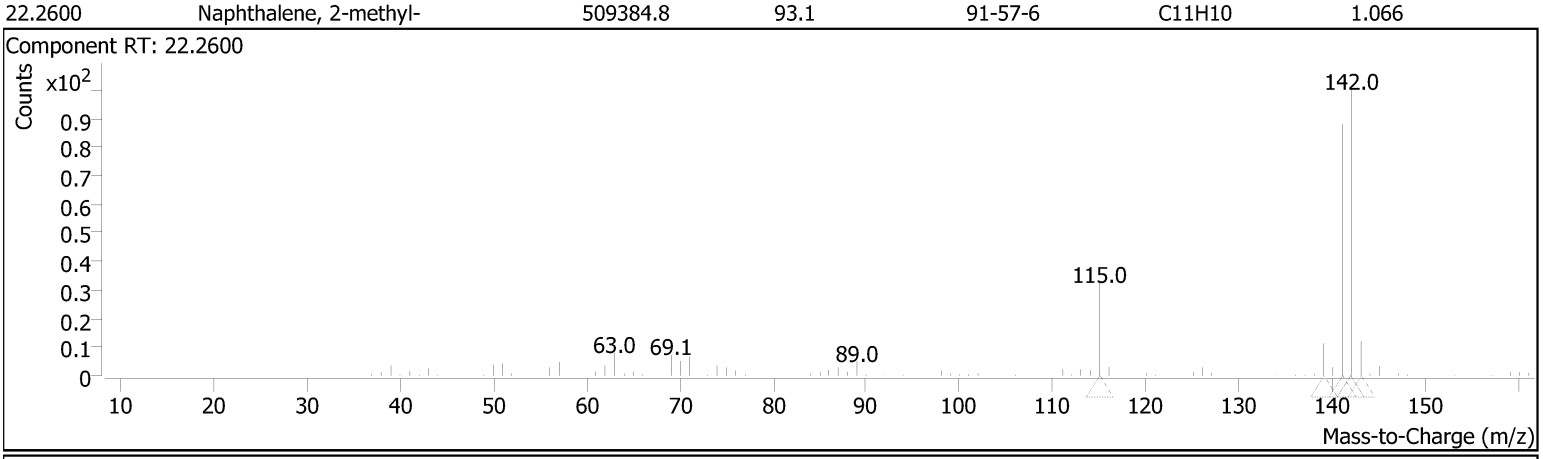



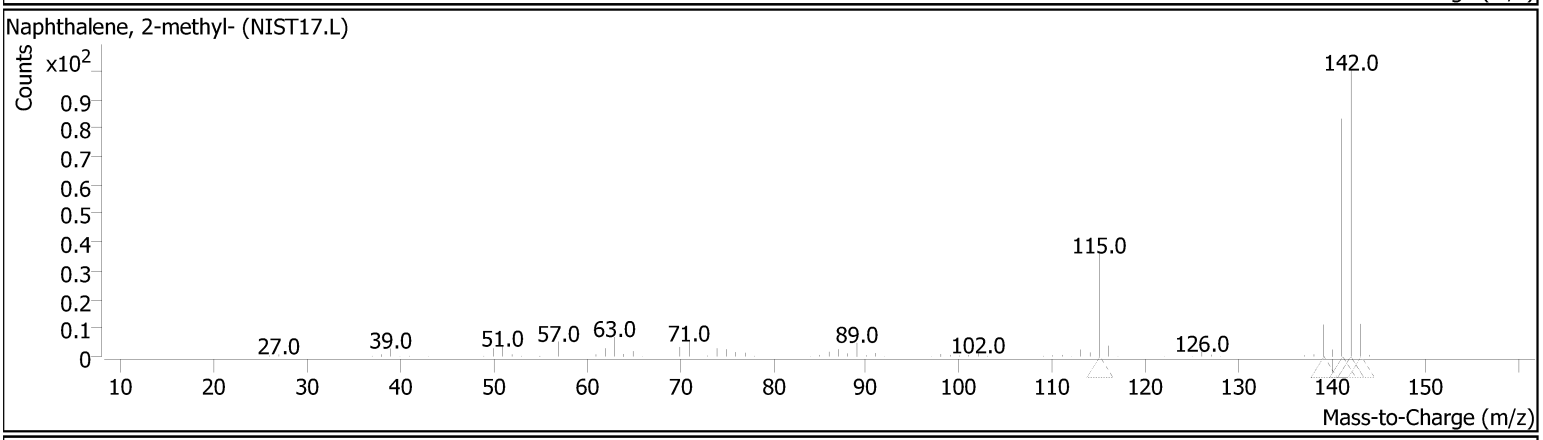


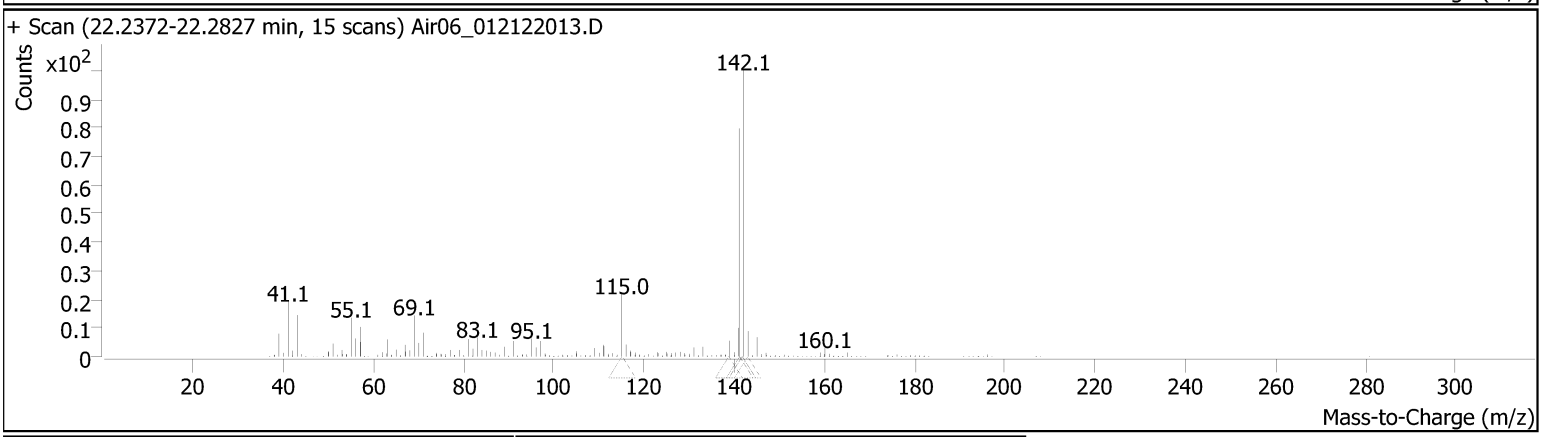

# Library Search Results - NonTarget Hits with Details

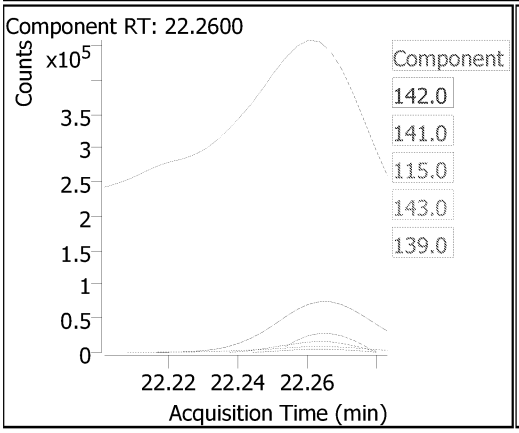
Agilent Technologies

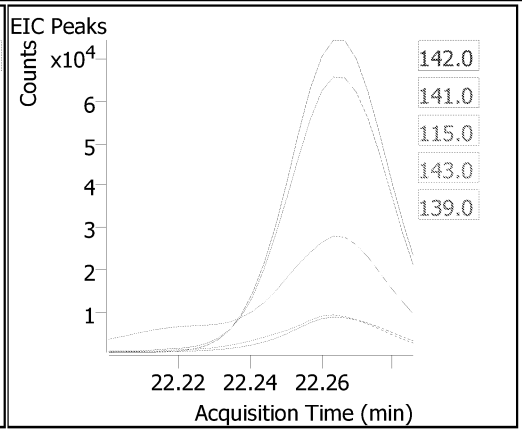
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.2600 | Naphthalene, 2-methyl- | 509384.8 | 93.1 | 91-57-6 | C11H10 | 1.066 |

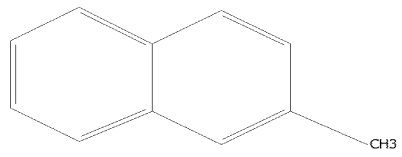


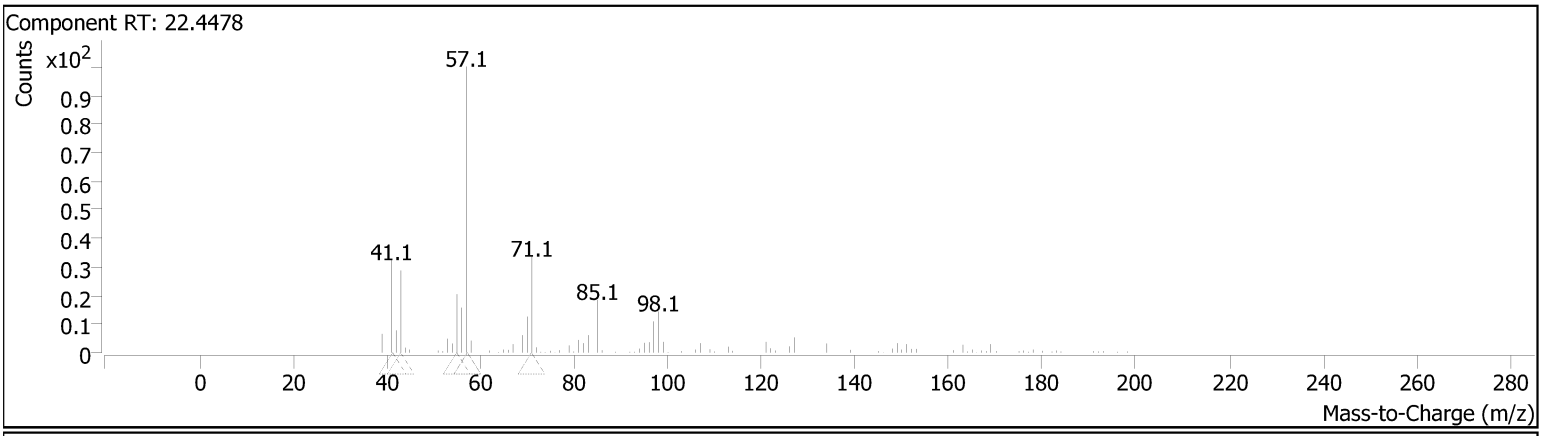



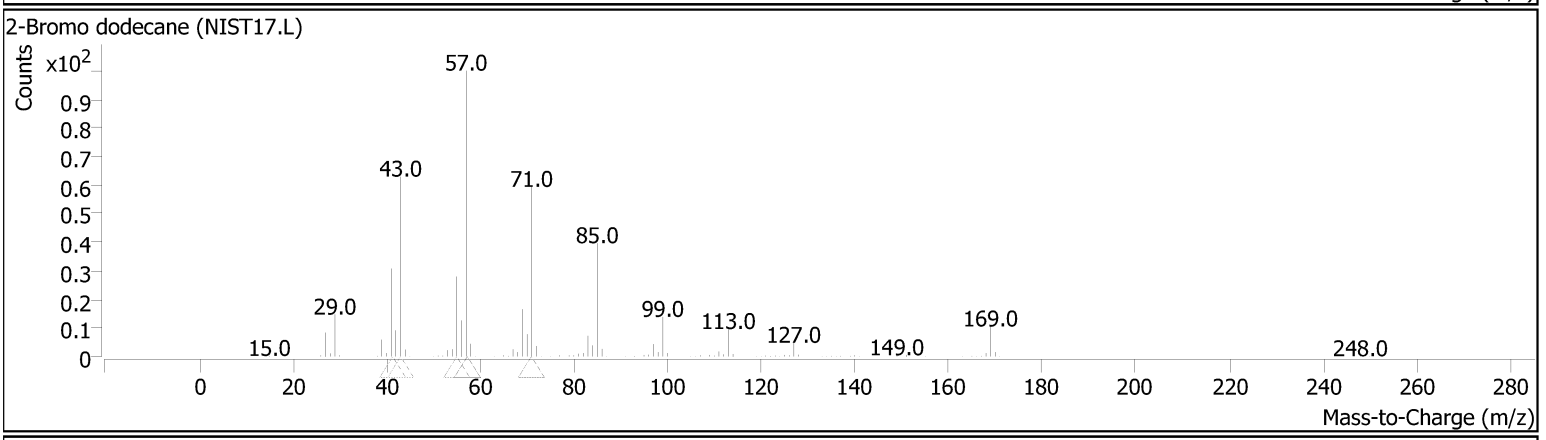



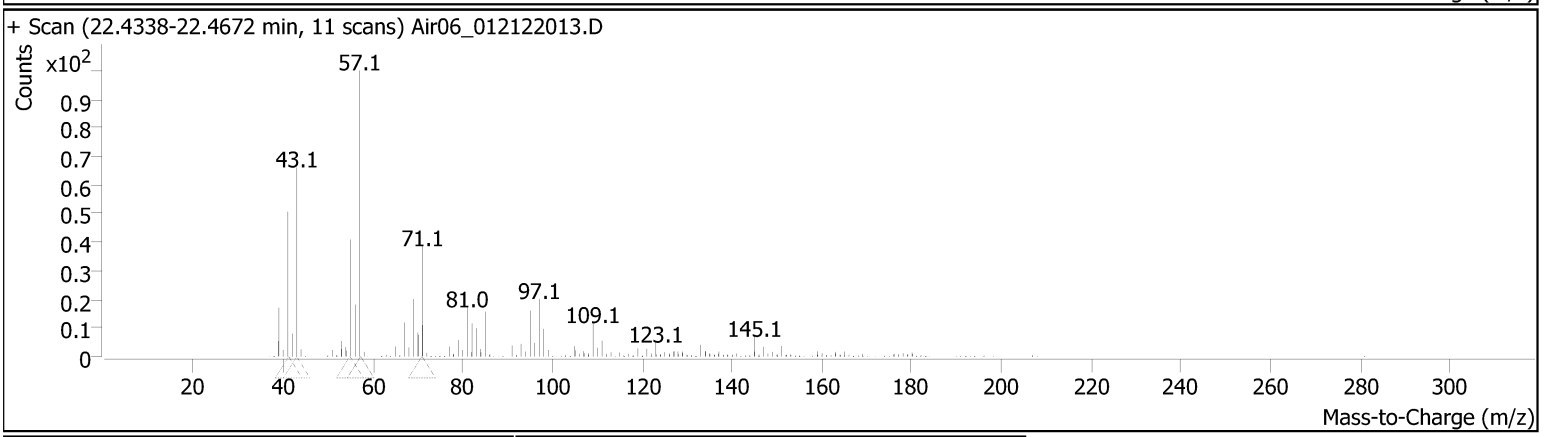



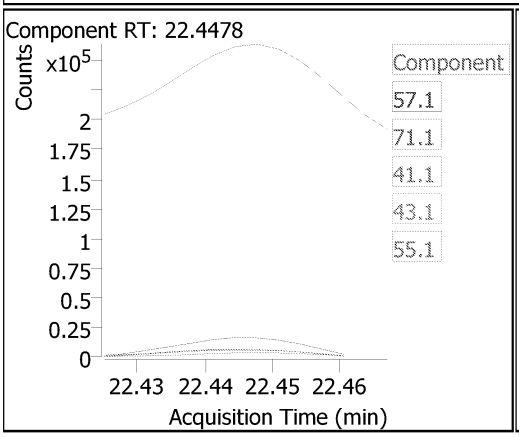



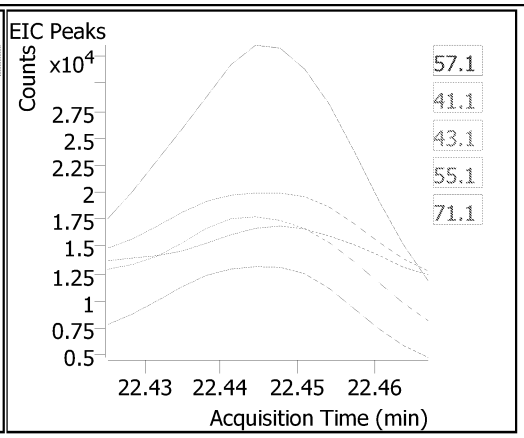
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.4478 | 2-Bromo dodecane | 92436.3 | 77.7 | 13187-99-0 | C12H25Br | 0.1934 |

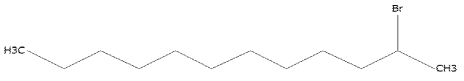


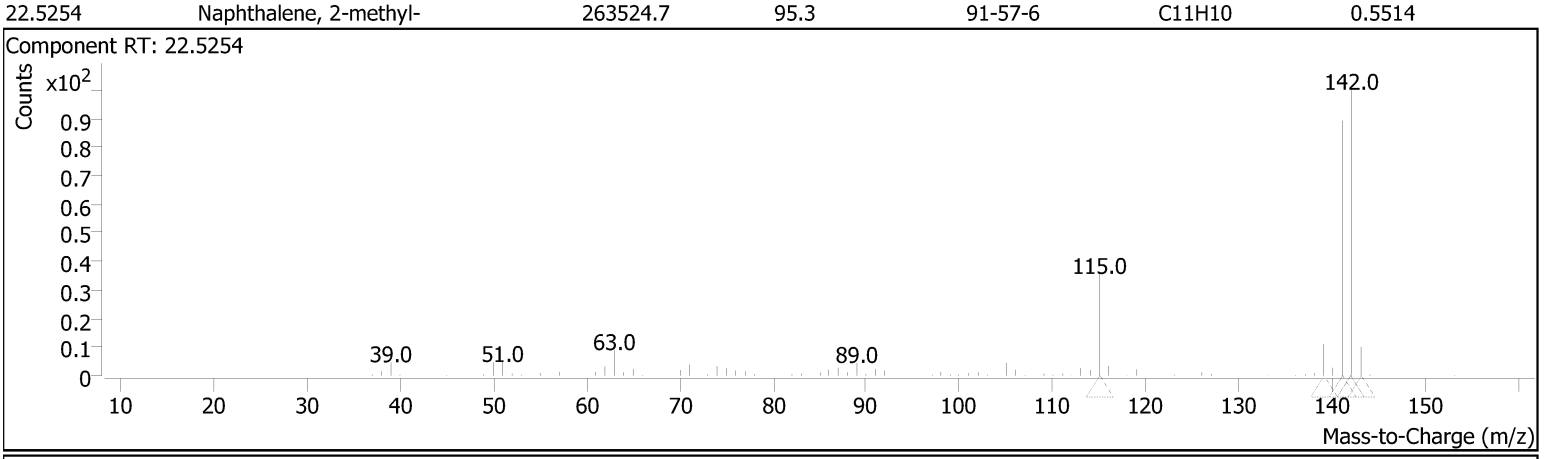



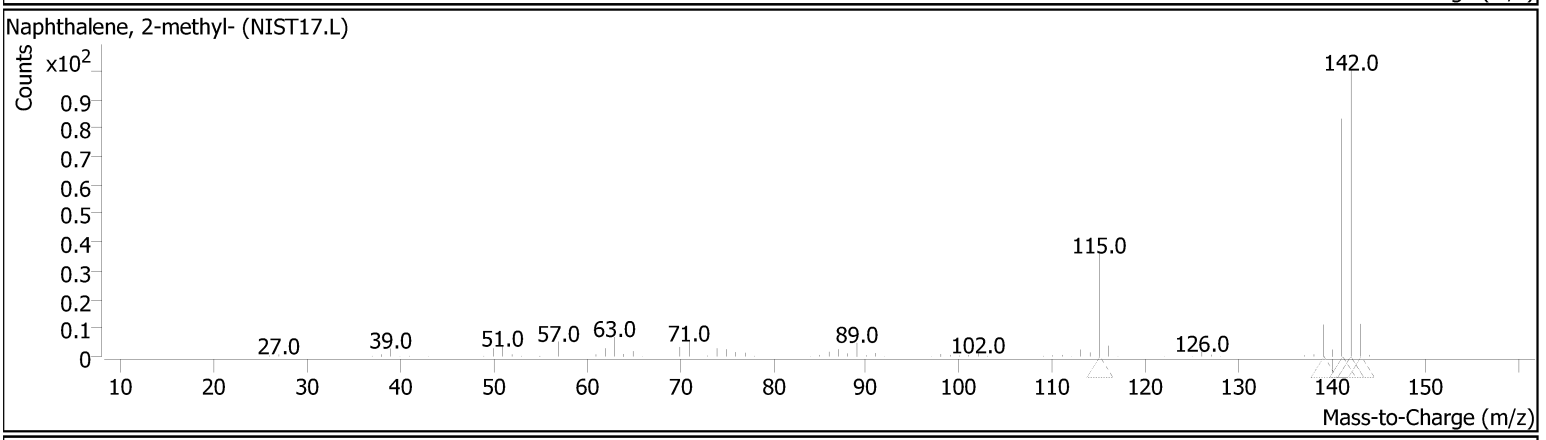



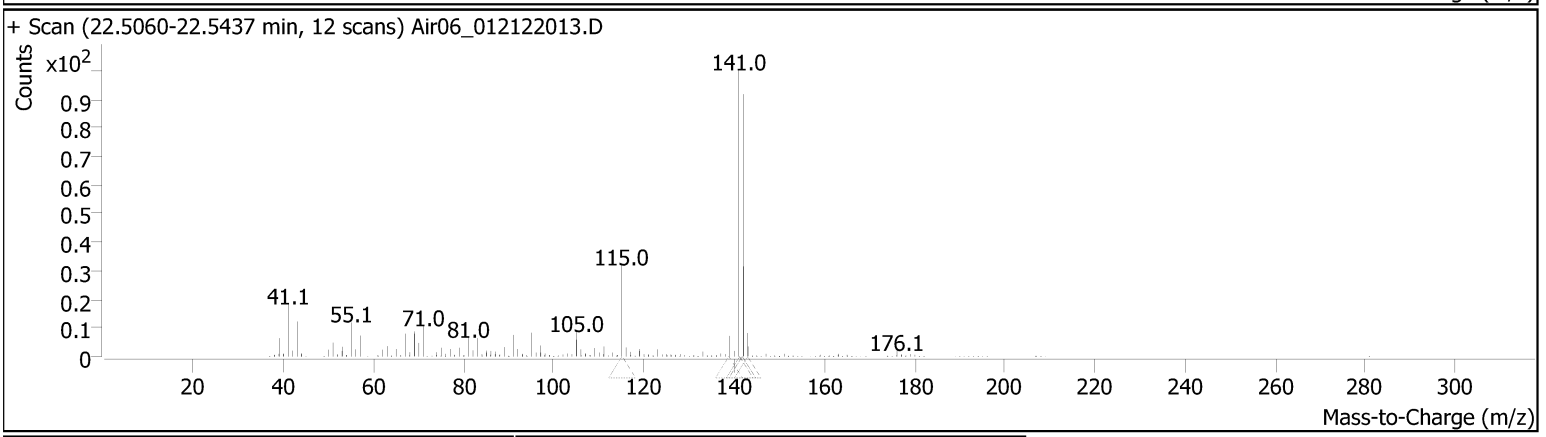
# Library Search Results - NonTarget Hits with Details

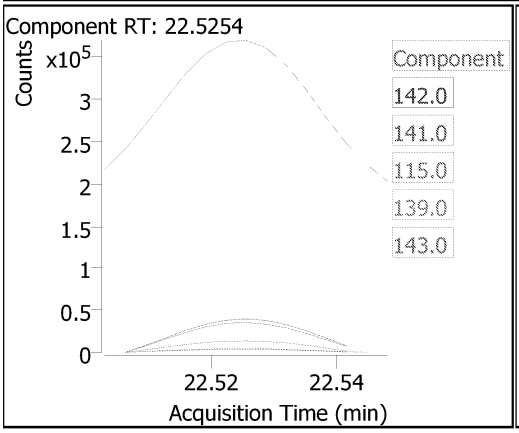
Agilent Technologies

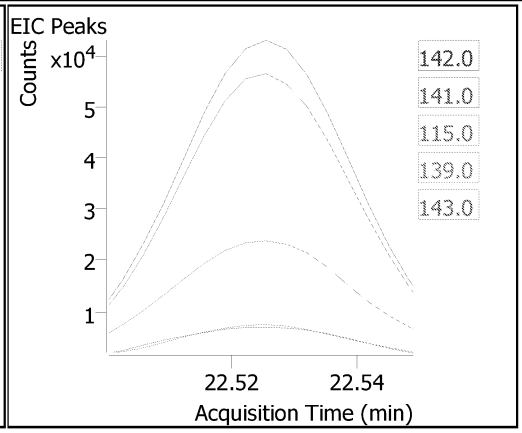
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.5254 | Naphthalene, 2-methyl- | 263524.7 | 95.3 | 91-57-6 | C11H10 | 0.5514 |

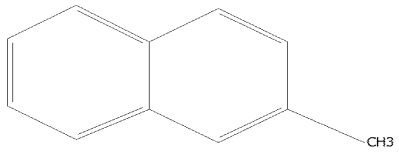


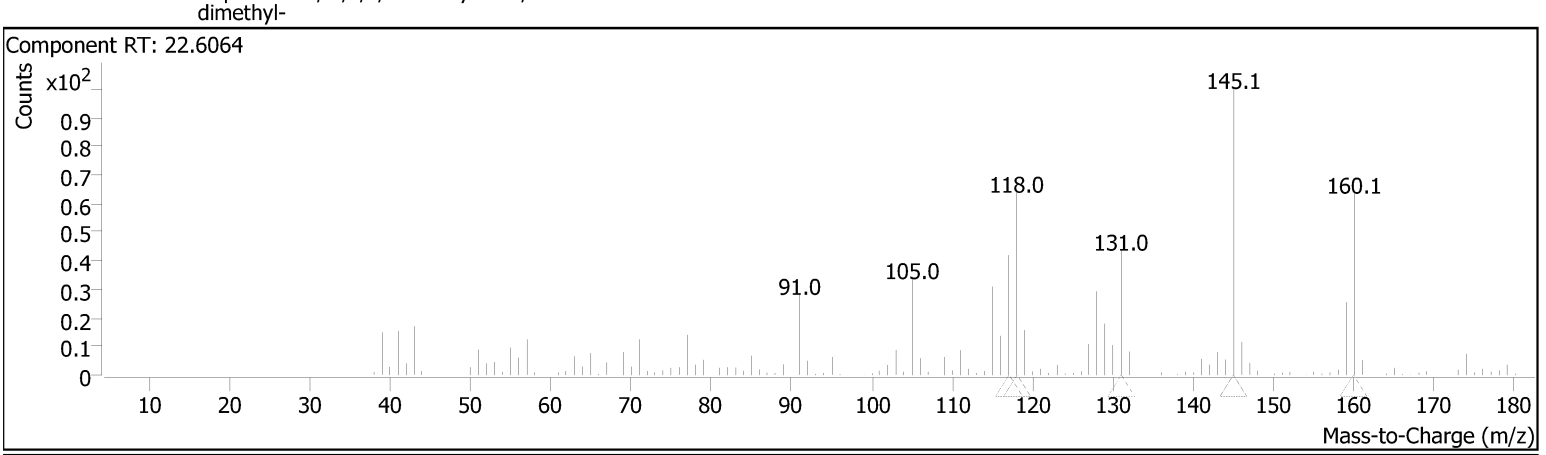



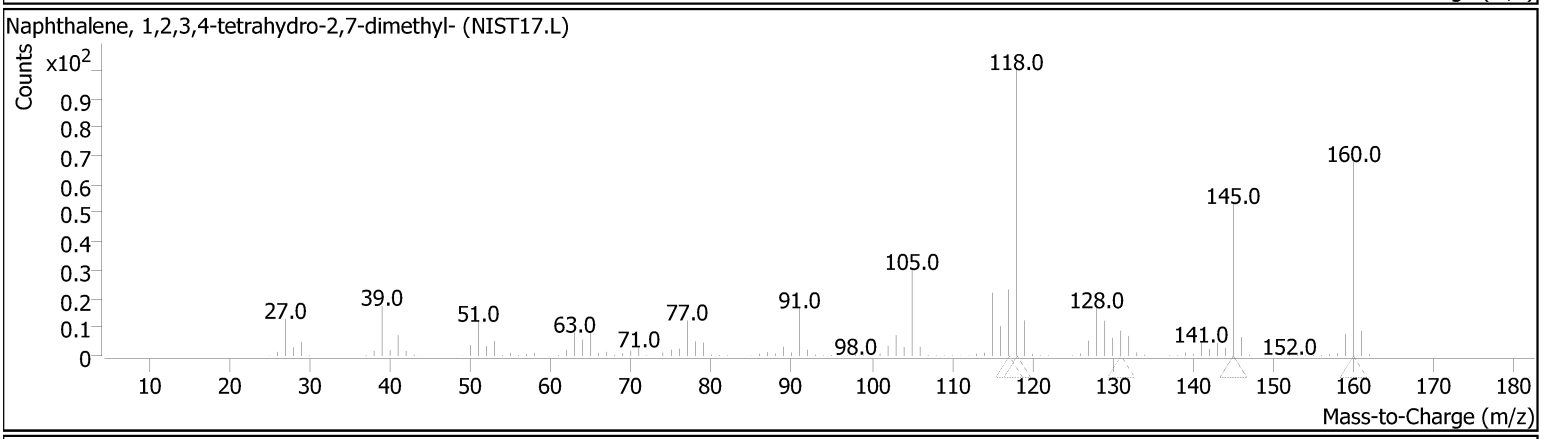



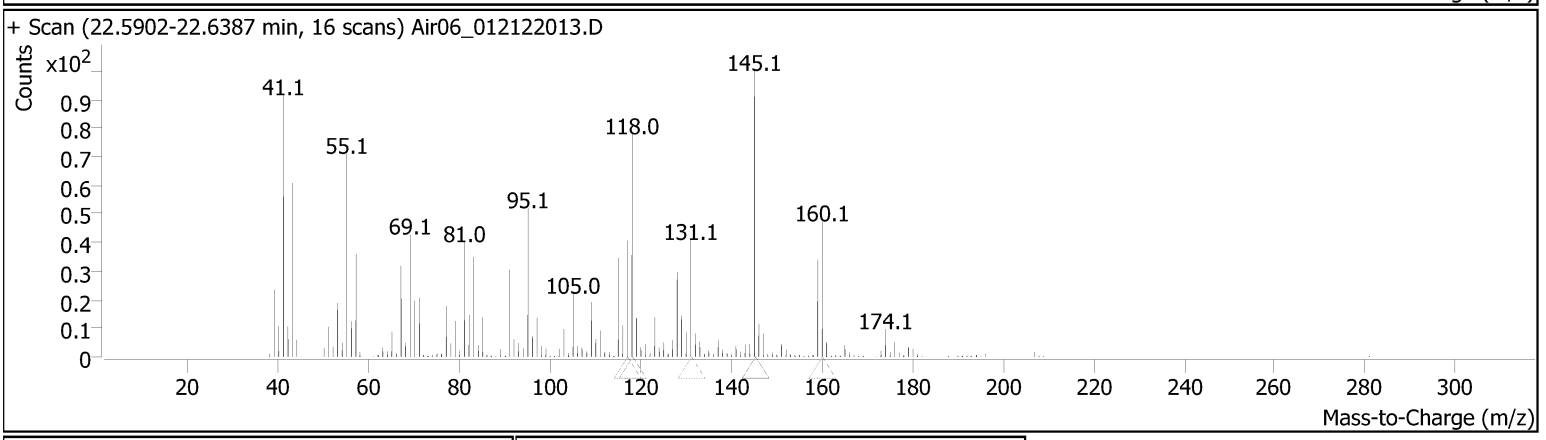



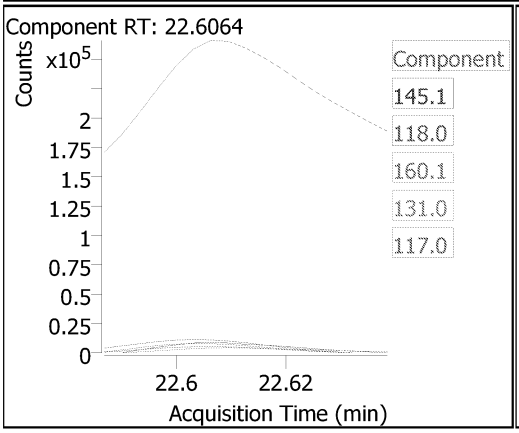



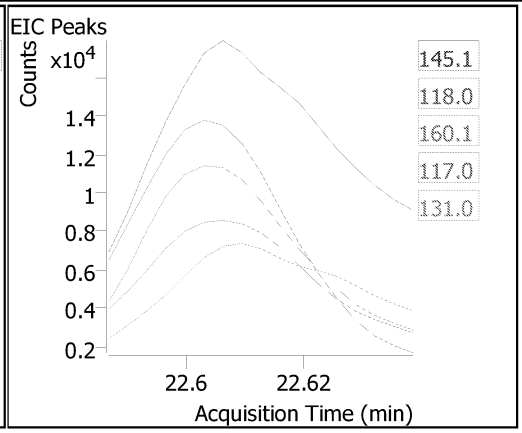
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.6064 | Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethyl- | 150493.9 | 87.7 | 13065-07-1 | C12H16 | 0.3149 |

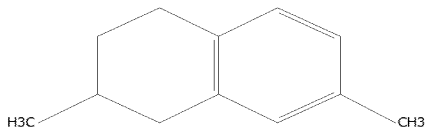


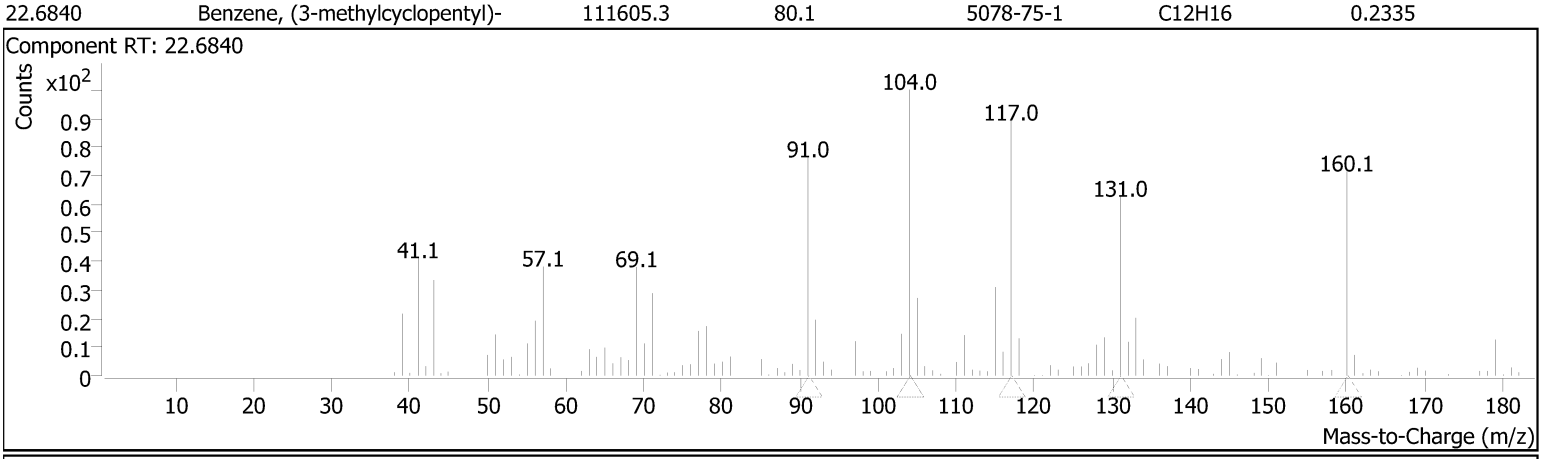



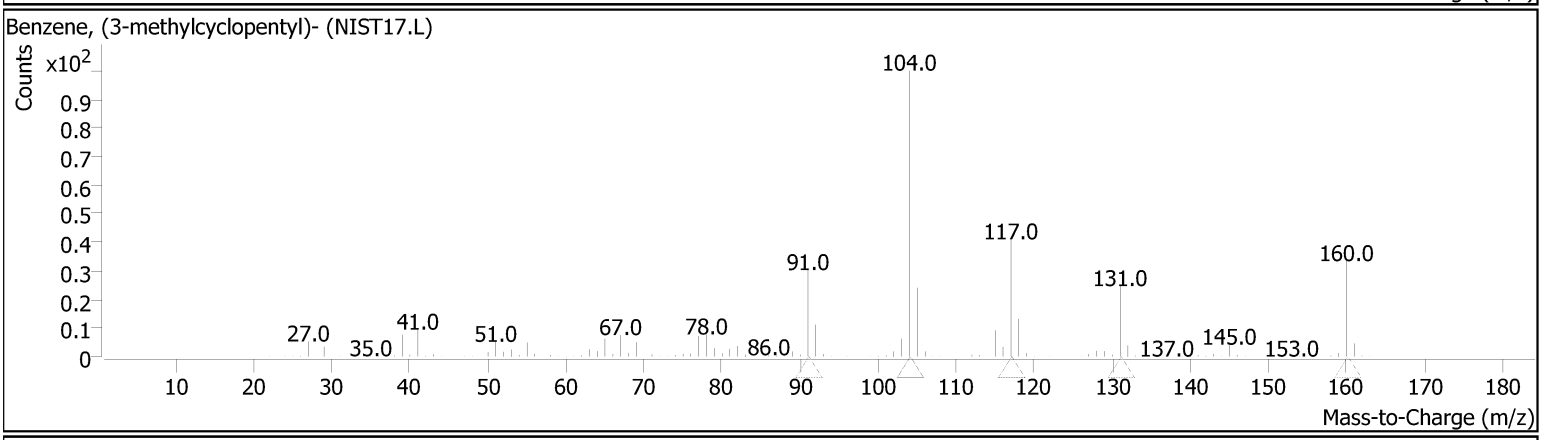



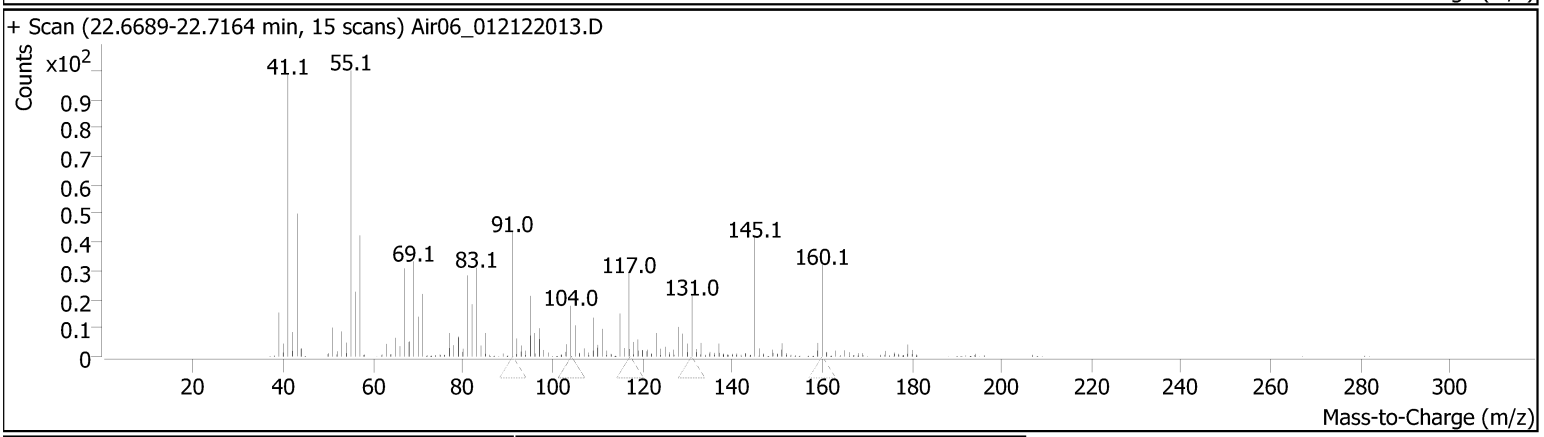



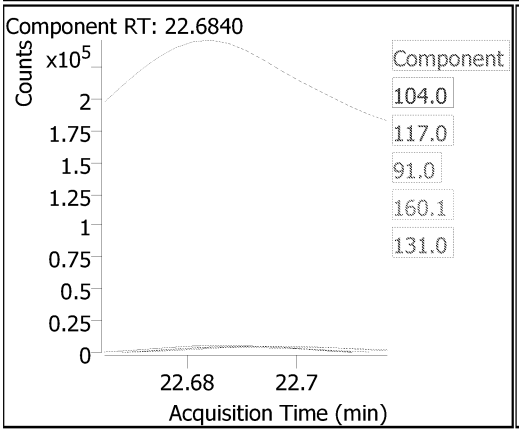



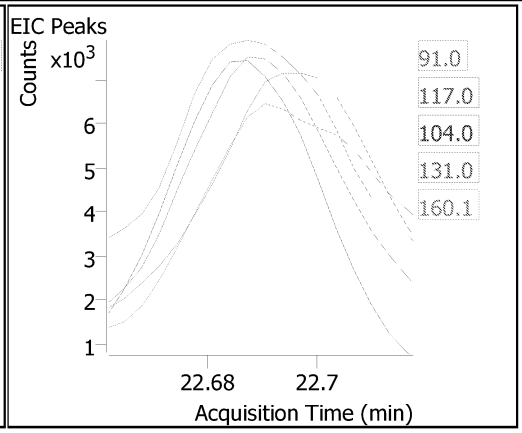
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.6840 | Benzene, (3-methylcyclopentyl)- | 111605.3 | 80.1 | 5078-75-1 | C12H16 | 0.2335 |

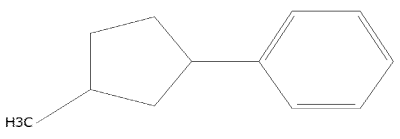


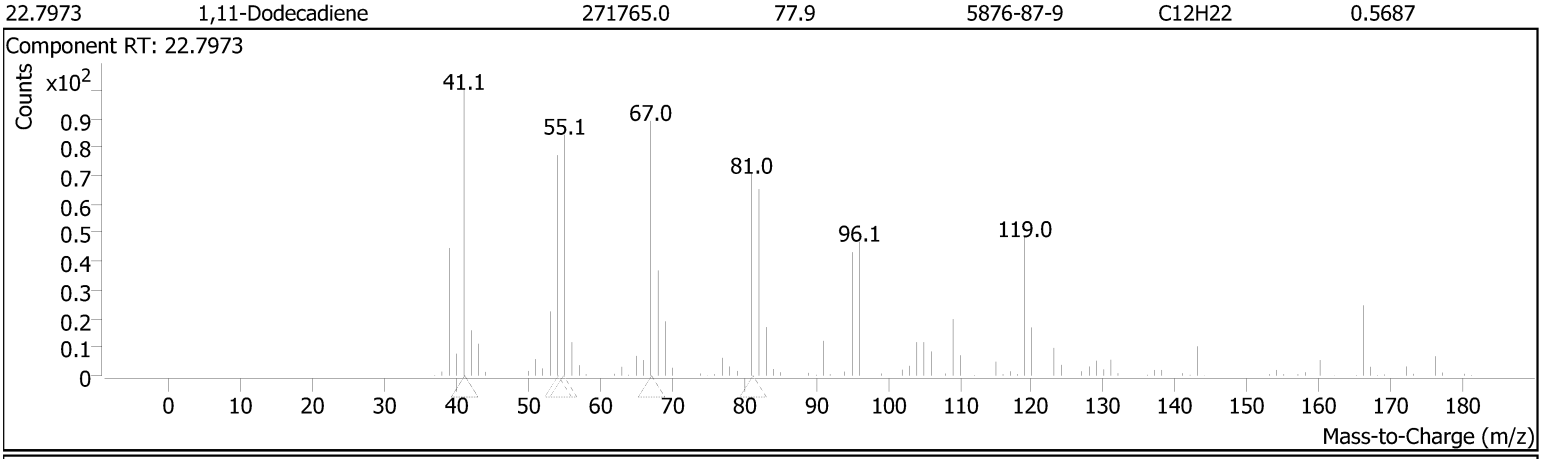



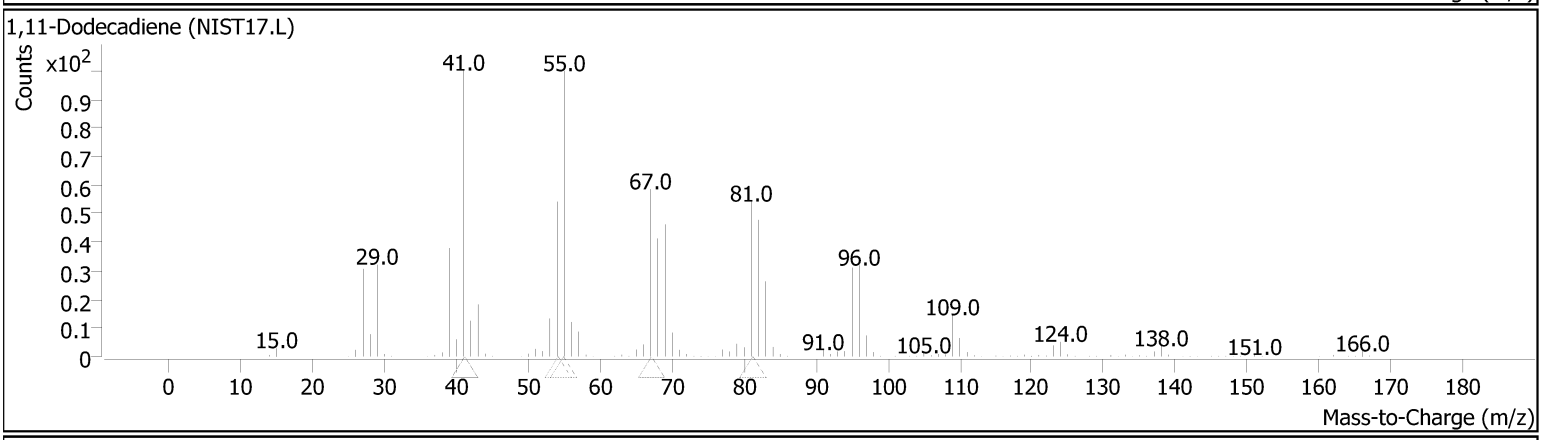



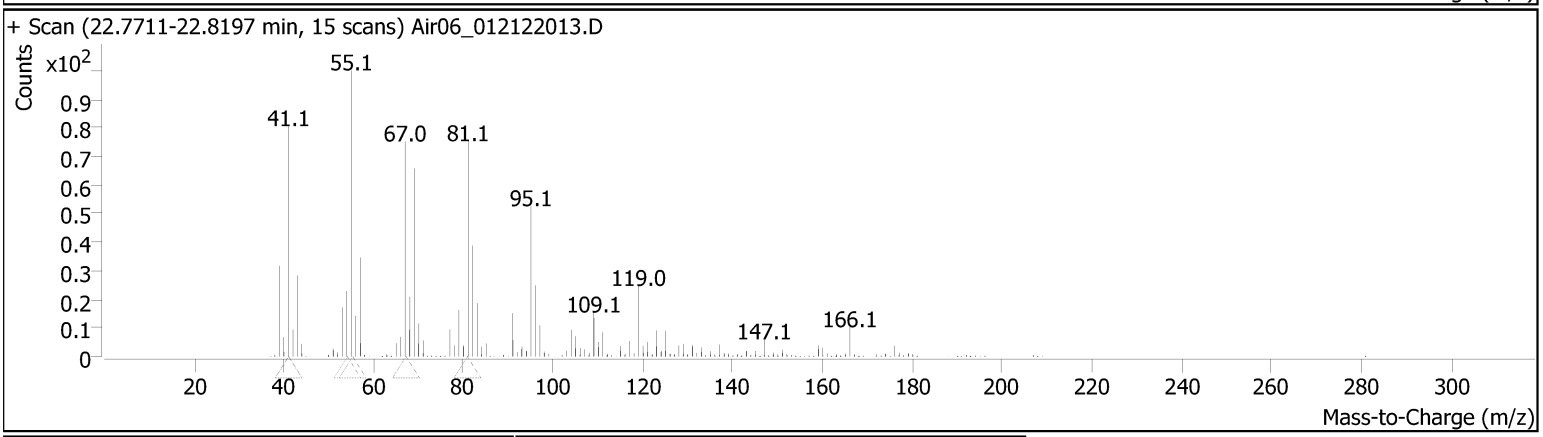



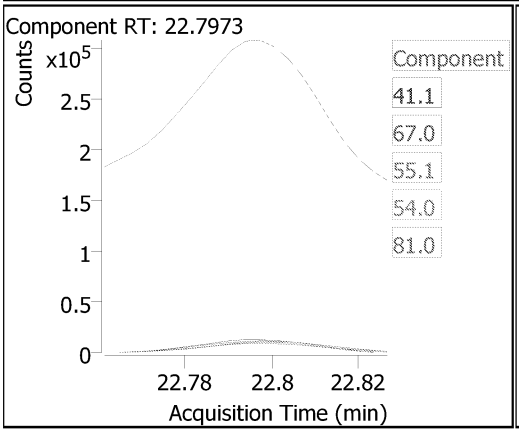



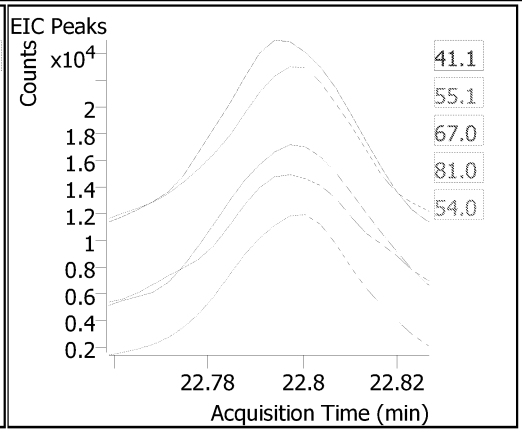
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.7973 | 1,11-Dodecadiene | 271765.0 | 77.9 | 5876-87-9 | C12H22 | 0.5687 |



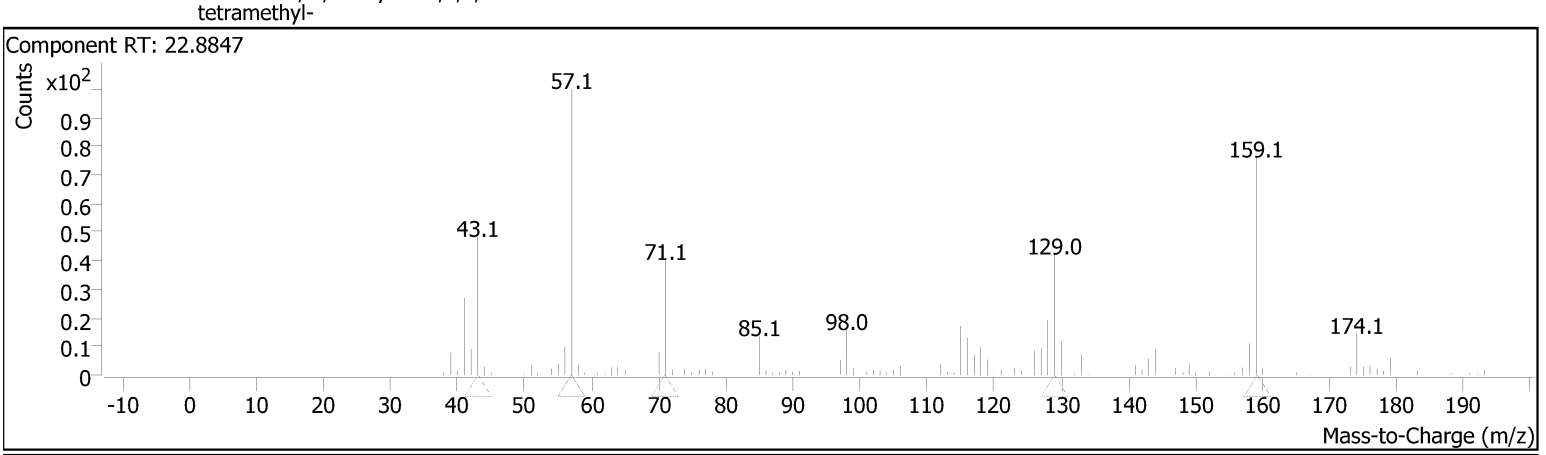



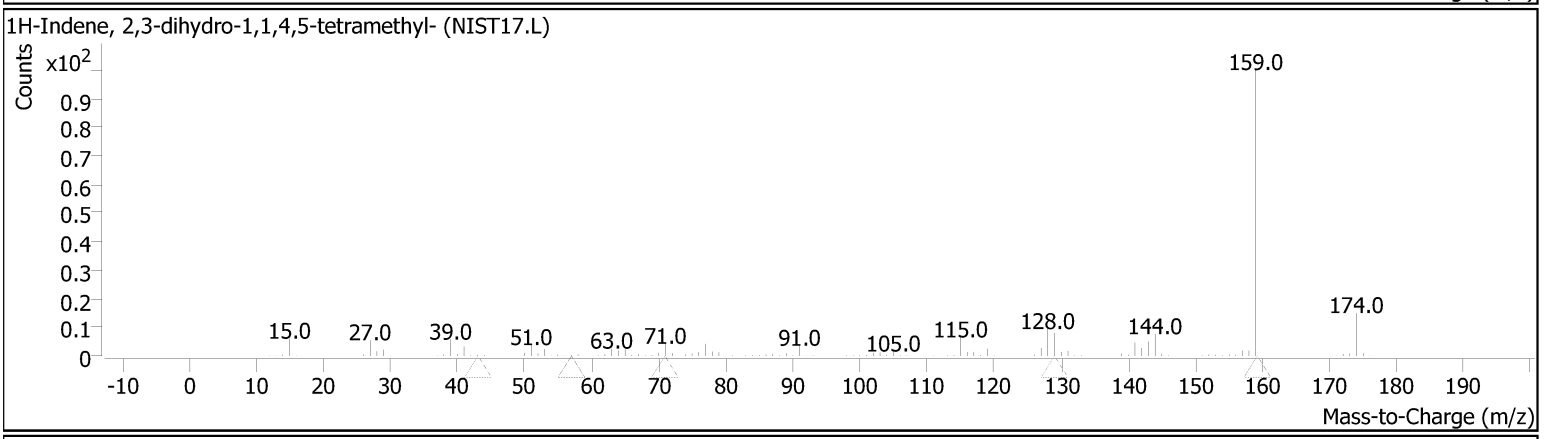


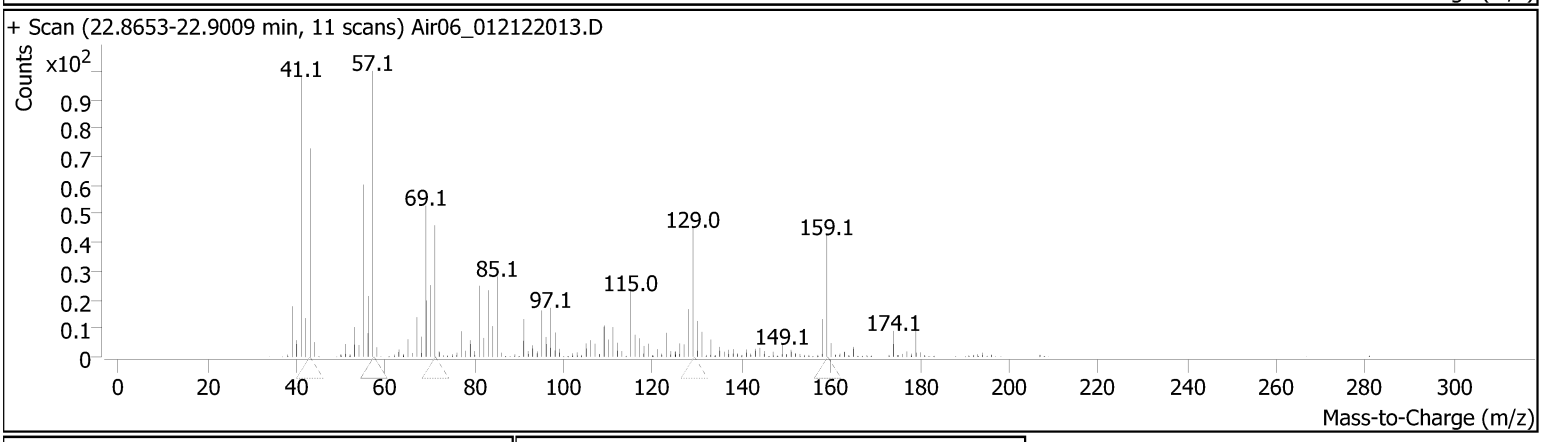

# Library Search Results - NonTarget Hits with Details

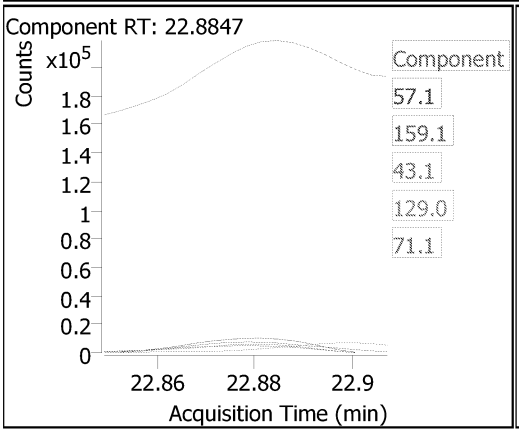
Agilent Technologies

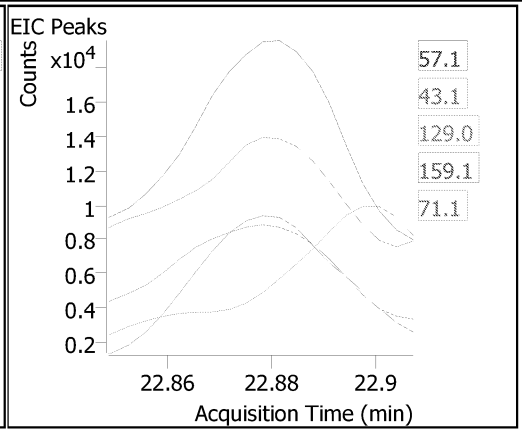
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.8847 | 1H-Indene, 2,3-dihydro-1,1,4,5-tetramethyl- | 124129.7 | 71.5 | 16204-57-2 | C13H18 | 0.2597 |

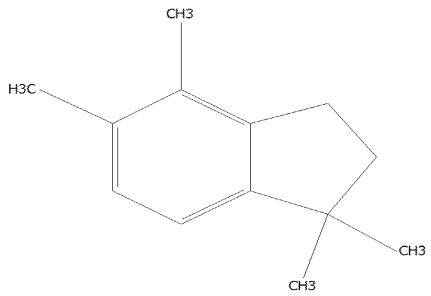


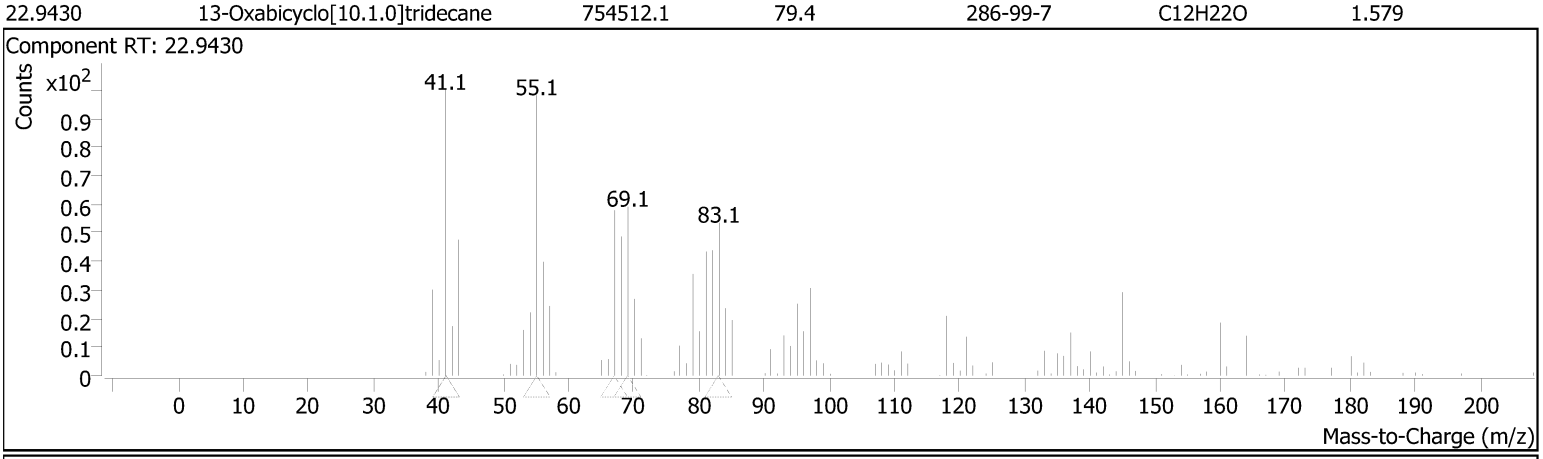



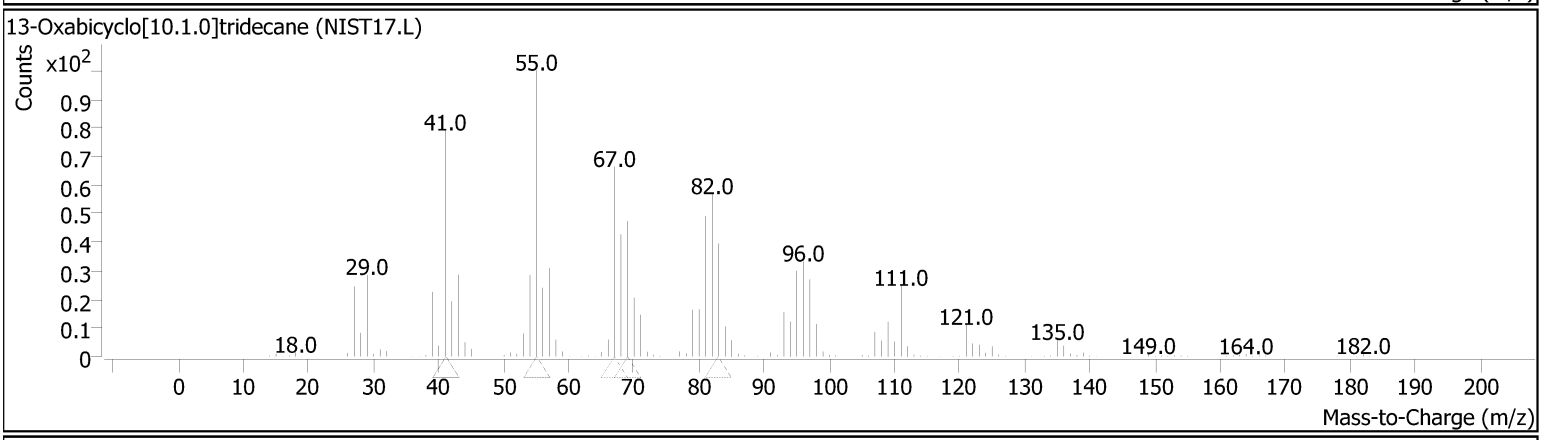



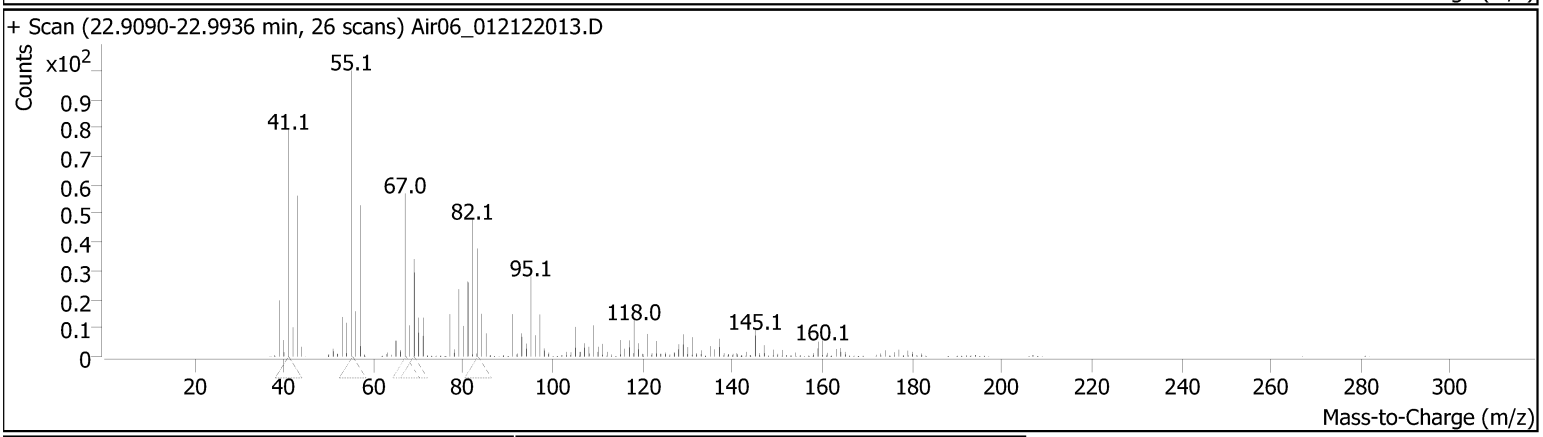



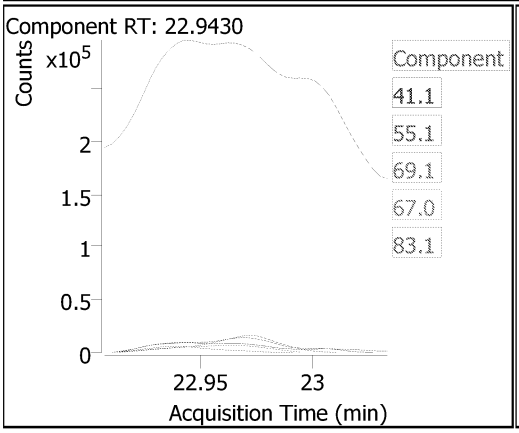



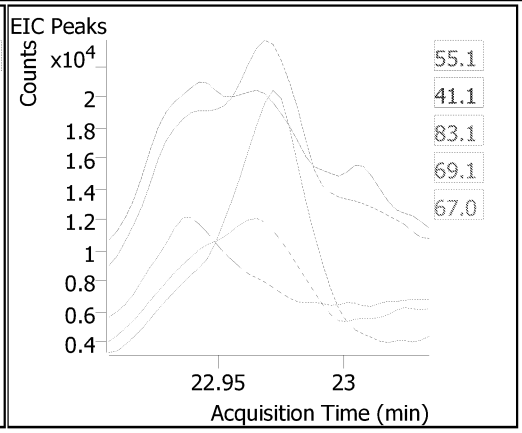
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.9430 | 13-Oxabicyclo[10.1.0]tridecane | 754512.1 | 79.4 | 286-99-7 | C12H22O | 1.579 |

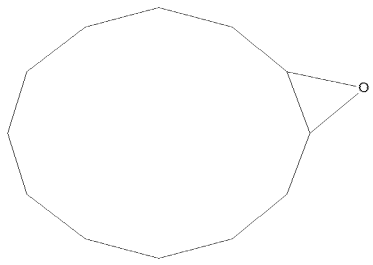


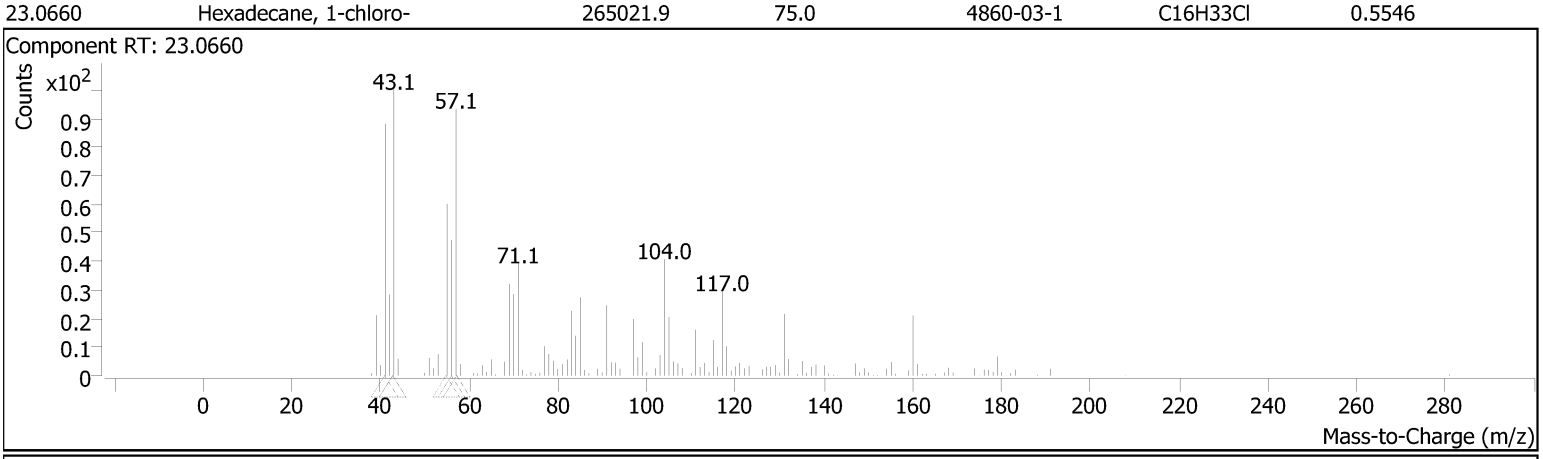



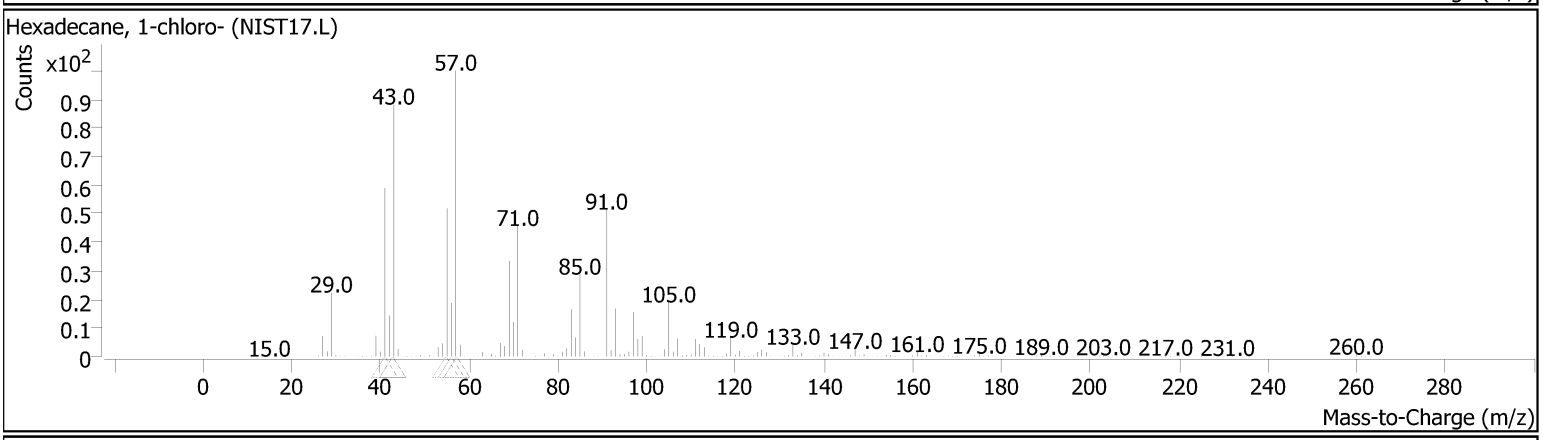



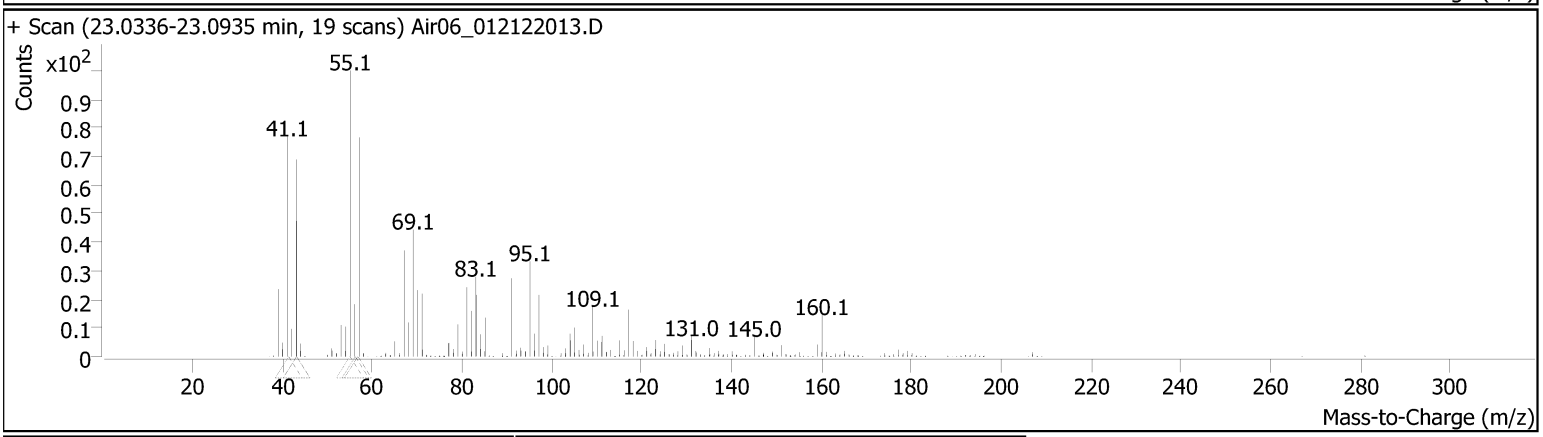



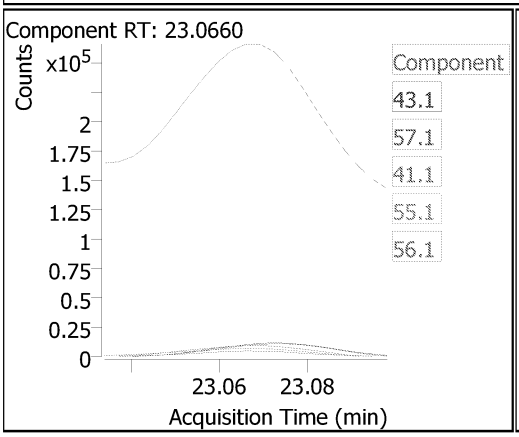



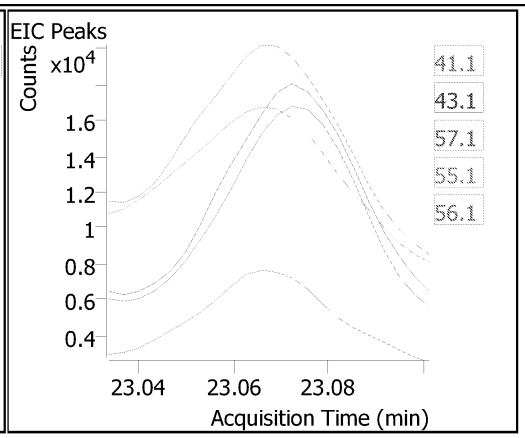
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.0660 | Hexadecane, 1-chloro- | 265021.9 | 75.0 | 4860-03-1 | C16H33Cl | 0.5546 |



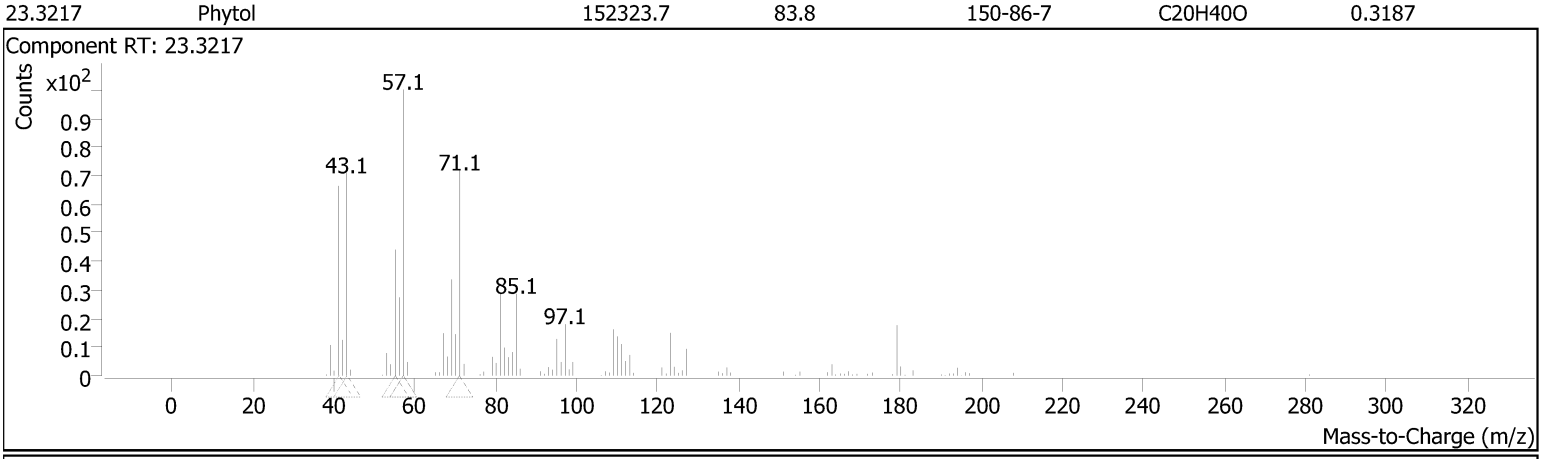



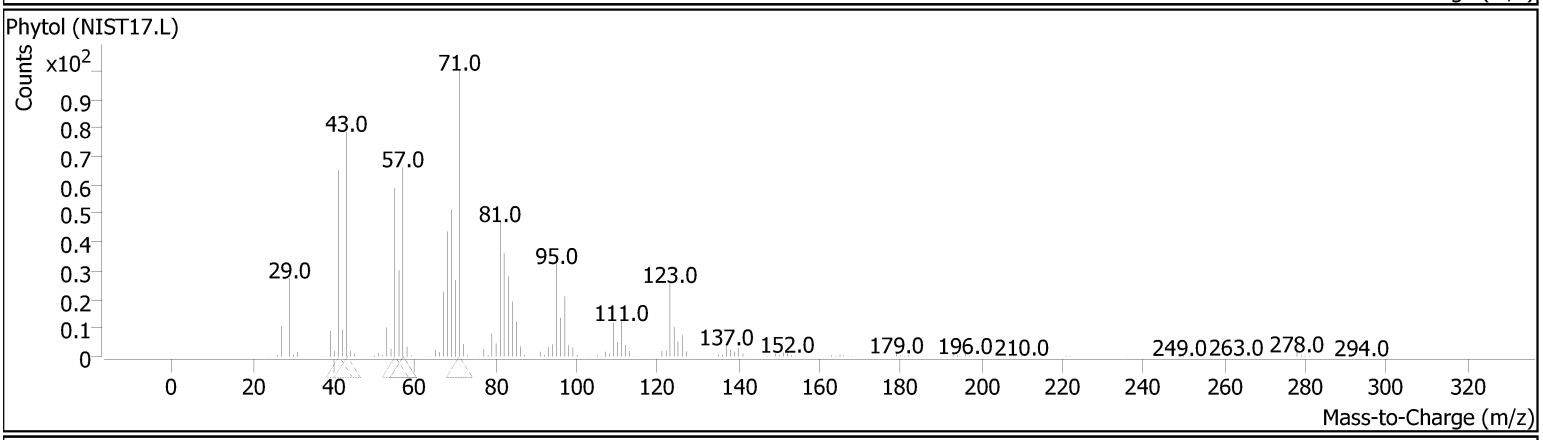


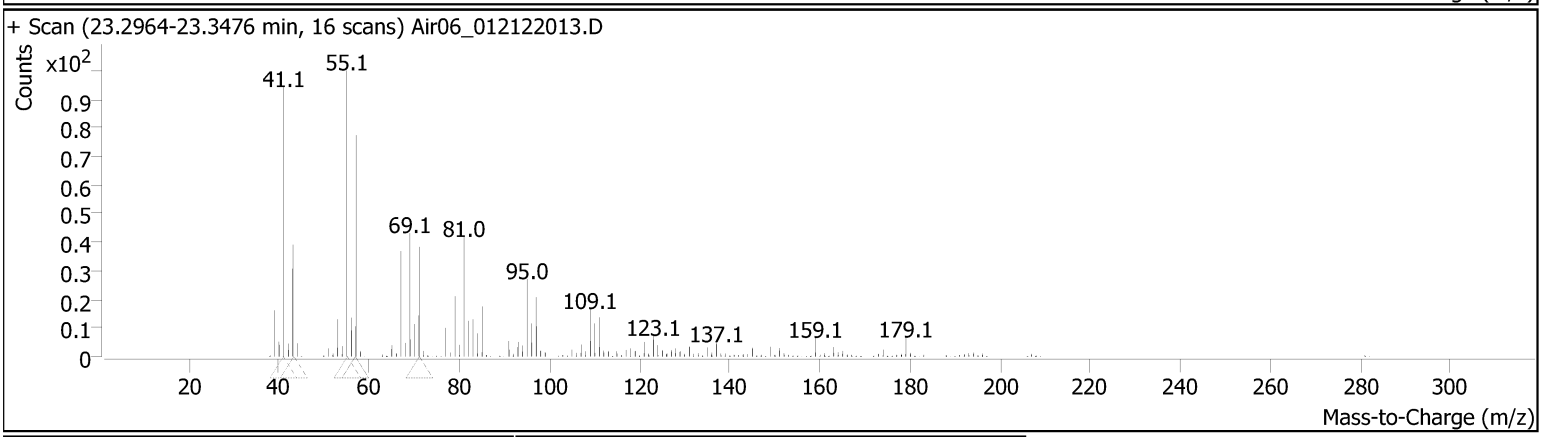

# Library Search Results - NonTarget Hits with Details

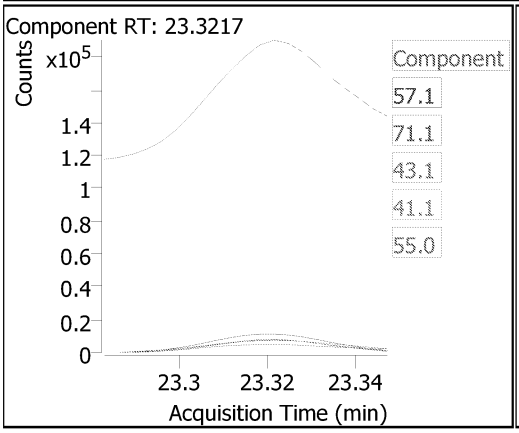
Agilent Technologies

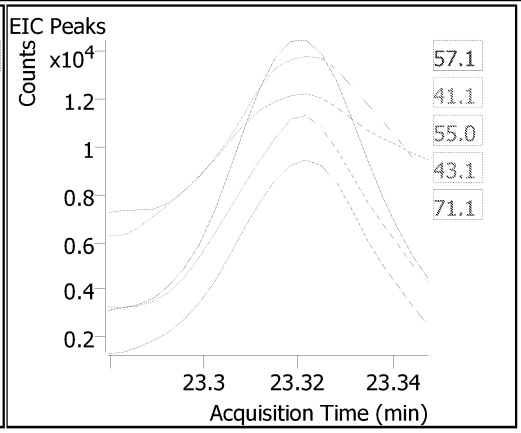
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3217 | Phytol | 152323.7 | 83.8 | 150-86-7 | C20H40O | 0.3187 |

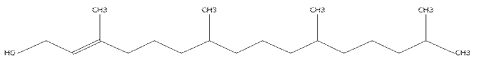


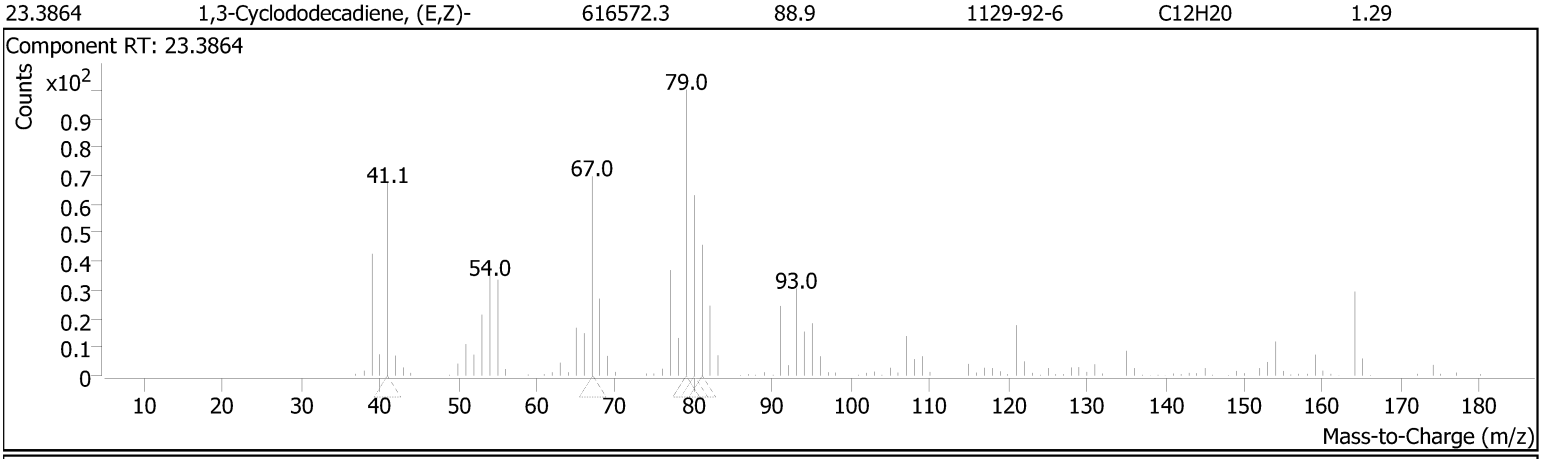



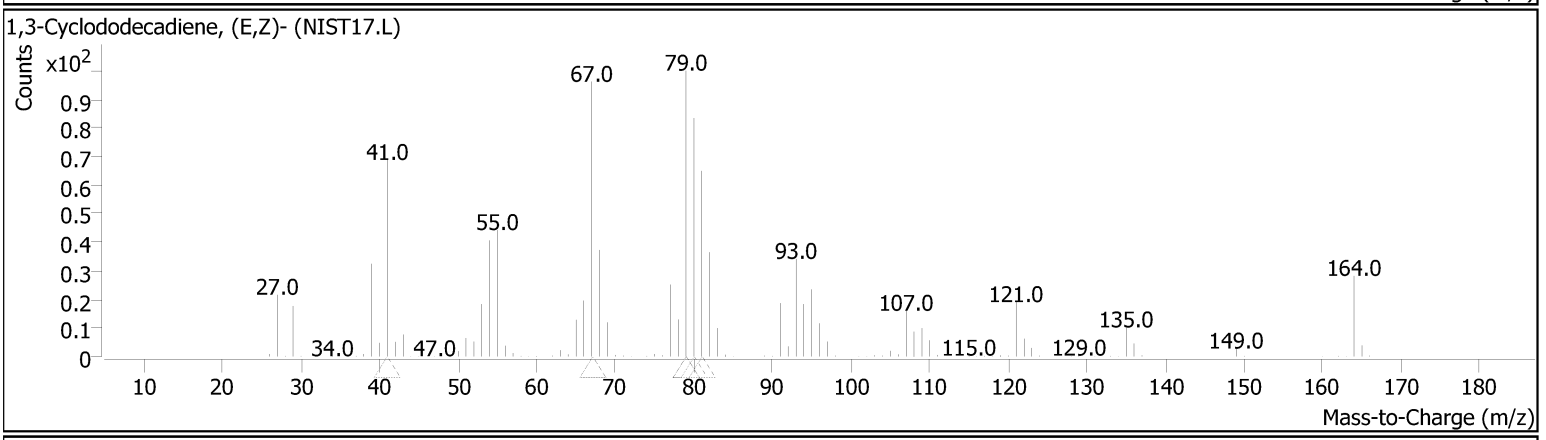



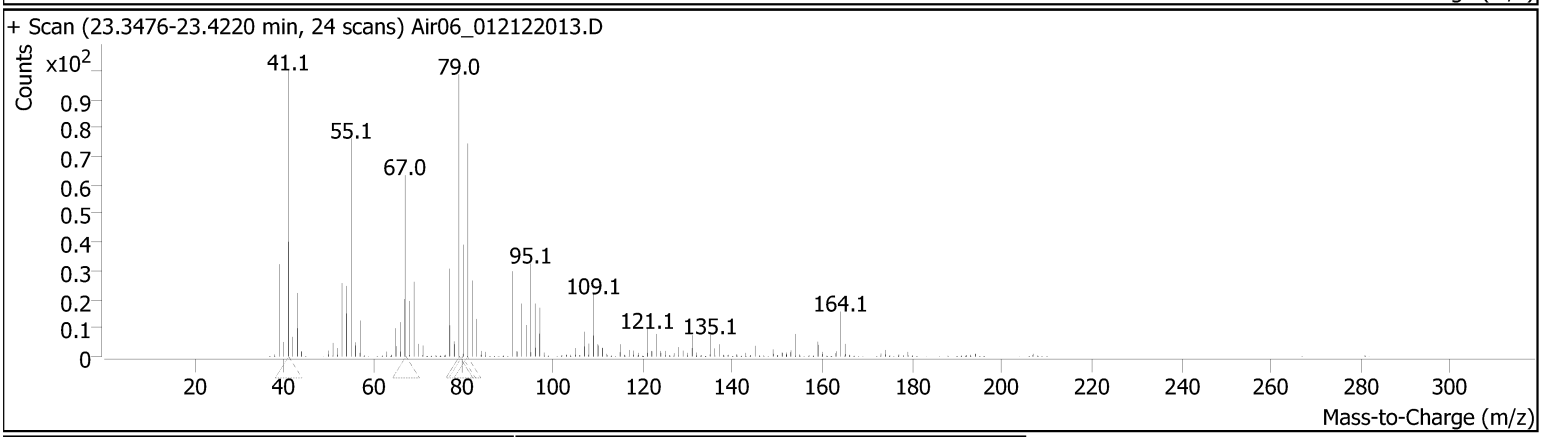
# Library Search Results - NonTarget Hits with Details

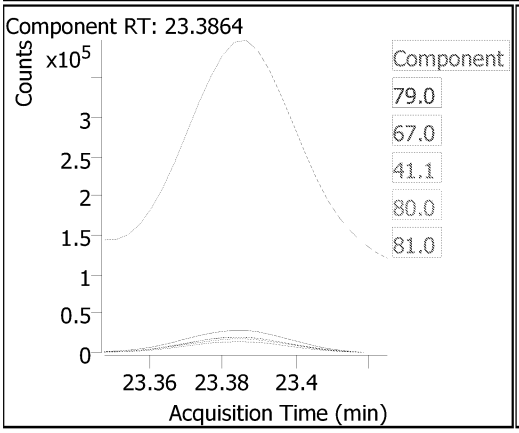
Agilent Technologies

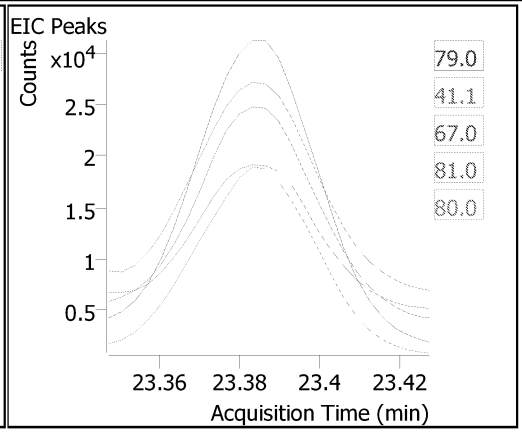
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3864 | 1,3-Cyclododecadiene, (E,Z)- | 616572.3 | 88.9 | 1129-92-6 | C12H20 | 1.29 |

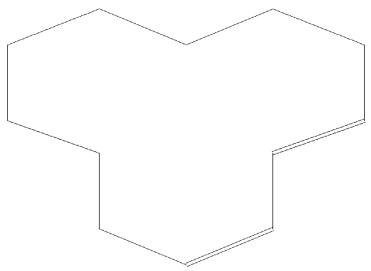


ENTHALPY SAMPLE USER REPORT FOR EPA TO-15

| | | | | | |
|---|---|---|---|---|---|
| Inst | : AIR-MS-06 | Lab ID | : 456991-007 C10549 | Client ID | : SVMP-20M |
| Seqnum | : 372030848014.2 | Matrix | : Air | Acct | : ELEMENT (JG) |
| File | : air06_012122014 | Batch | : 282262 | Time | : 21-JAN-2022 21:36 |
| Cal | : 372007975001 | Caldate | : 05-JAN-2022 | | |
| IDF | : 2.0 | Raw Units | : nL/L | Units | : nL/L |
| PDF | : 1.0 | | | | |

| Analyte | Raw | Result | RL | Blank | Flags |
|---|---|---|---|---|---|
| Freon 12 | 0.2466 | 0.49 | 0.40 | | u |
| Freon 114 | 0.008240 | ND | 0.40 | | u |
| Chloromethane | 0.02999 | ND | 0.40 | | u |
| Vinyl Chloride | 0.0008256 | ND | 0.40 | | u |
| Bromomethane | 0 | ND | 0.40 | | u |
| Chloroethane | 0.002351 | ND | 0.40 | | u |
| Trichlorofluoromethane | 0.1026 | ND | 0.40 | | u |
| 1,1-Dichloroethene | 0.0002272 | ND | 0.40 | | u |
| Freon 113 | 0.03291 | ND | 0.40 | | u |
| Acetone | 2.120 | 4.2 | 2.0 | 0.18 | u |
| Carbon Disulfide | 0.04072 | ND | 0.40 | | u |
| Isopropanol (IPA) | 3.073 | 6.1 | 2.0 | | u |
| Methylene Chloride | 0.1373 | ND | 0.40 | 0.26 | u |
| trans-1,2-Dichloroethene | 0.1371 | ND | 0.40 | | u |
| MTBE | 0.003234 | ND | 0.40 | | u |
| n-Hexane | 0.04871 | ND | 0.40 | | u |
| 1,1-Dichloroethane | 0.005059 | ND | 0.40 | | u |
| Vinyl Acetate | 0.03145 | ND | 2.0 | | calc u |
| cis-1,2-Dichloroethene | 0.008816 | ND | 0.40 | | u |
| 2-Butanone | 0.3009 | ND | 2.0 | | u |
| Chloroform | 0.04734 | ND | 0.40 | | u |
| 1,1,1-Trichloroethane | 0 | ND | 0.40 | | u |
| Carbon Tetrachloride | 0.03020 | ND | 0.40 | | u |
| Benzene | 0.01958 | ND | 0.40 | | u |
| 1,2-Dichloroethane | 0.0002997 | ND | 0.40 | | u |
| Trichloroethene | 0.01812 | ND | 0.40 | | u |
| 1,2-Dichloropropane | 0.04925 | ND | 0.40 | | u |
| Bromodichloromethane | 0.004586 | ND | 0.40 | | u |
| cis-1,3-Dichloropropene | 0 | ND | 0.40 | | u |
| 4-Methyl-2-Pentanone | 0.01629 | ND | 0.40 | | u |
| Toluene | 0.1950 | ND | 0.40 | | u |
| trans-1,3-Dichloropropene | 0.001568 | ND | 0.40 | | u |
| 1,1,2-Trichloroethane | 0.009891 | ND | 0.40 | | u |
| Tetrachloroethene | 0.009909 | ND | 0.40 | | u |
| 2-Hexanone | 0.02754 | ND | 1.0 | | calc u |
| Dibromochloromethane | 0.0009414 | ND | 0.40 | | u |
| 1,2-Dibromoethane | 0.003669 | ND | 0.40 | | u |
| Chlorobenzene | 0.003324 | ND | 0.40 | | u |
| Ethylbenzene | 0.1016 | ND | 0.40 | | u |
| m,p-Xylenes | 0.4430 | 0.89 | 0.80 | | u |
| o-Xylene | 0.2617 | 0.52 | 0.40 | | u |
| Styrene | 0.1330 | ND | 0.40 | | u |
| Bromoform | 0.0003930 | ND | 0.40 | | u |
| 1,1,2,2-Tetrachloroethane | 0.001456 | ND | 0.40 | | u |
| 1,1,1,2-Tetrachloroethane | 0.002460 | ND | 0.40 | | u |
| 4-Ethyltoluene | 0.06383 | ND | 0.40 | | u |
| 1,3,5-Trimethylbenzene | 0.1341 | ND | 0.40 | | u |
| 1,2,4-Trimethylbenzene | 0.4701 | 0.94 | 0.40 | | u |

| Analyte | Raw | Result | RL | Blank | Flags |
|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.1684 | ND | 0.40 | | u |
| 1,4-Dichlorobenzene | 0.1665 | ND | 0.40 | | u |
| Benzyl chloride | 0.003951 | ND | 0.40 | | u |
| 1,2-Dichlorobenzene | 0.02020 | ND | 0.40 | | calc u |
| 1,2,4-Trichlorobenzene | 0.01157 | ND | 0.40 | | u |
| Hexachlorobutadiene | 0.001639 | ND | 0.40 | | u |

| Tentatively Identified Compound | CAS # | Raw | Units | Result | Units |
|---|---|---|---|---|---|
| Azulene | 275-51-4 | 2.2 | nL/L | 4.4 | nL/L |
| Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | 2.5 | nL/L | 4.9 | nL/L |
| Dodecane | 112-40-3 | 5.4 | nL/L | 11 | nL/L |
| Hexanol-1, 6-cyclohexyl- | 4354-58-9 | 2.9 | nL/L | 5.8 | nL/L |
| Naphthalene, 2-methyl- | 91-57-6 | 2.4 | nL/L | 4.9 | nL/L |
| Naphthalene, decahydro-2-methyl | 2958-76-1 | 2.0 | nL/L | 3.9 | nL/L |
| Tridecane | 629-50-5 | 3.9 | nL/L | 7.9 | nL/L |
| Tridecane, 7-methyl- | 26730-14-3 | 2.4 | nL/L | 4.8 | nL/L |
| Undecane | 1120-21-4 | 3.7 | nL/L | 7.3 | nL/L |
| Undecane, 2,6-dimethyl- | 17301-23-4 | 2.4 | nL/L | 4.8 | nL/L |

| Surrogate | Raw | Spiked | Result | %Rec | Limits | Flags |
|---|---|---|---|---|---|---|
| Bromofluorobenzene | 10.31 | 20.00 | 20.62 | 103 | 60-140 | u |

| ISTD (ICAL air06_010522009) | ICAL Area | SAMPLE Area | %Drift | ICAL RT | SAMPLE RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 394541 | -4.05 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1617073 | 4.22 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 799808 | -5.60 | 14.01 | 14.01 | 0.00 |

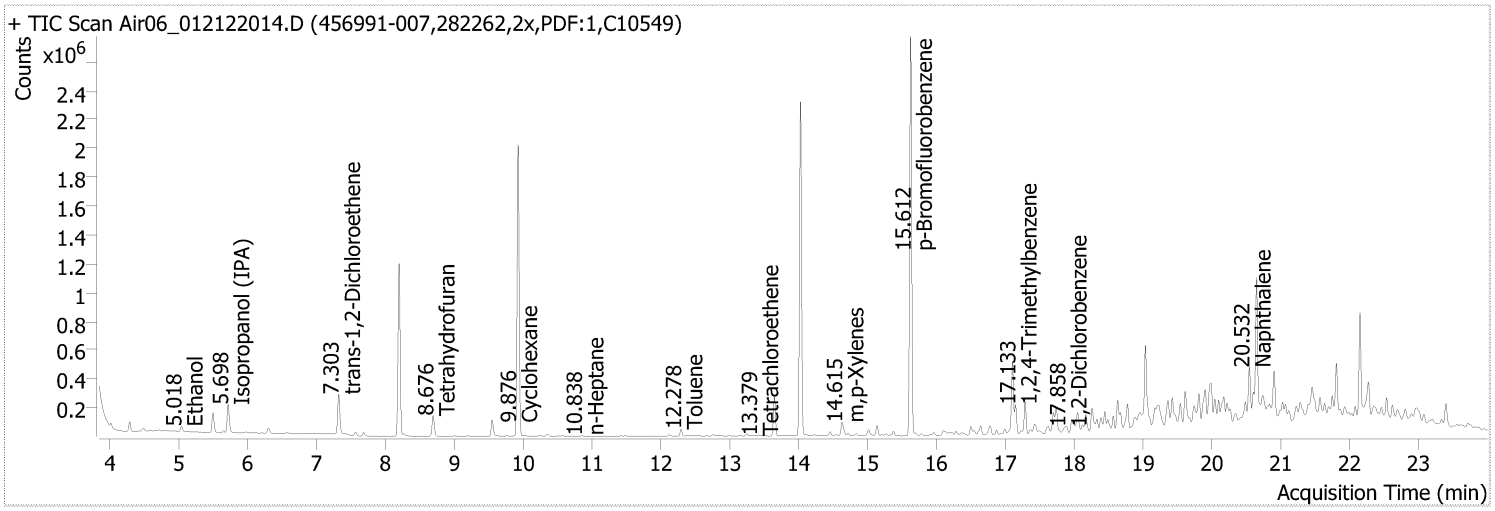
**(not in upper half)**

Analyst: DJL Date: 01/27/22 Reviewer: LW Date: 01/27/22

calc=check quantitation u=use

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012122014.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/21/2022 9:36:34 PM |
| Sample Name | 456991-007,282262,2x,PDF:1,C10549 | Instrument | Air-MS-06 |
| Vial | 13 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 2x400mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 21 1305 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



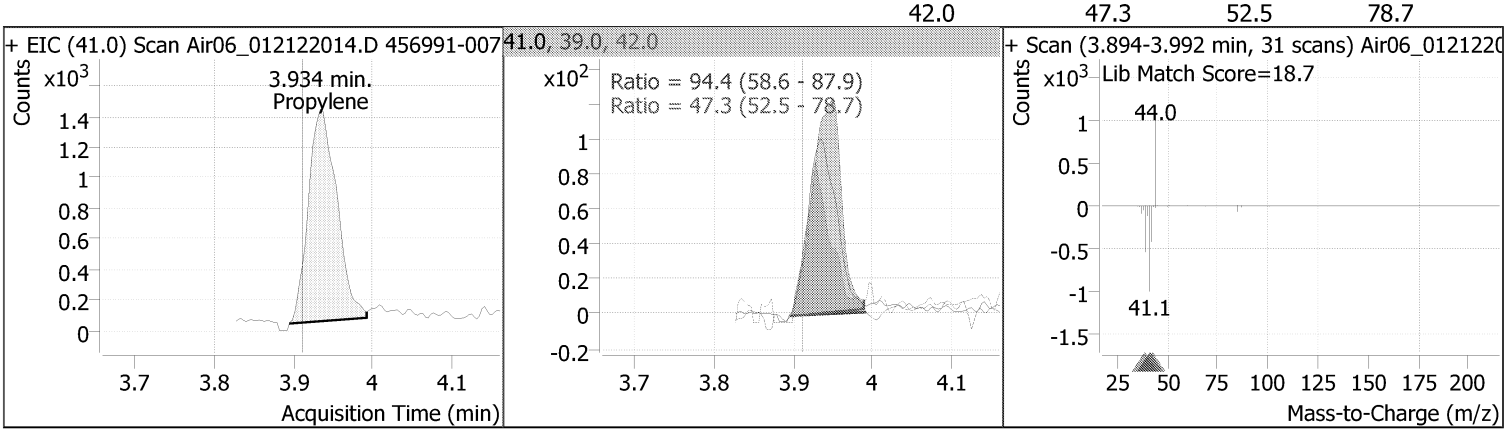

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 394540 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1617073 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 799808 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1084449 | 10.3109 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 103.11% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.934 | 41.0 | 3475 | 0.0894 | nL/L | # | 76 |
| T Freon 12 | 3.995 | 85.0 | 25361 | 0.2466 | nL/L | | 97 |
| T Chloromethane | 4.154 | 50.0 | 1449 | 0.0300 | nL/L | # | 91 |
| T Freon 114 | 4.251 | 135.0 | 598 | 0.0082 | nL/L | # | 93 |
| T Vinyl Chloride | 4.364 | 62.0 | 40 | 0.0008 | nL/L | | 51 |
| T 1,3-Butadiene | 4.465 | 54.0 | 479 | 0.0116 | nL/L | # | 1 |
| T Butane | 4.559 | 43.0 | 4658 | 0.0580 | nL/L | | 99 |
| T Bromomethane | 0.000 | | 0 | N.D. | | | |
| T Chloroethane | 4.892 | 64.0 | 56 | 0.0024 | nL/L | | 42 |
| T Ethanol | 5.018 | 45.0 | 45722 | 1.9217 | nL/L | | 96 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 5.345 | 56.0 | 682 | 0.0325 | nL/L | | 19 |
| T Acetone | 5.475 | 58.0 | 52558 | 2.1195 | nL/L | # | 96 |
| T Trichloromonofluoromethane | 5.630 | 101.0 | 12437 | 0.1026 | nL/L | | 99 |
| T Isopropanol (IPA) | 5.698 | 45.0 | 272846 | 3.0726 | nL/L | | 94 |
| T n-Pentane | 5.957 | 43.0 | 5031 | 0.0507 | nL/L | | 96 |
| T 1,1-Dichloroethene | 6.251 | 61.0 | 20 | 0.0002 | nL/L | | 36 |
| T Tert-butyl alcohol (TBA) | 6.277 | 59.0 | 31124 | 0.3029 | nL/L | # | 88 |
| T Methylene Chloride | 6.290 | 84.0 | 5995 | 0.1373 | nL/L | | 98 |
| T 3-Chloropropene | 6.578 | 76.0 | 5137 | 0.2553 | nL/L | # | 64 |
| T Freon 113 | 6.546 | 101.0 | 3205 | 0.0329 | nL/L | | 95 |
| T Carbon Disulfide | 6.578 | 76.0 | 5137 | 0.0407 | nL/L | # | 76 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.303 | 61.0 | 10356 | 0.1371 | nL/L | # | 32 |
| T 1,1-Dichloroethane | 7.300 | 63.0 | 469 | 0.0051 | nL/L | # | 63 |
| T MTBE | 7.387 | 73.0 | 398 | 0.0032 | nL/L | | 46 |
| T Vinyl Acetate | 7.410 | 43.0 | 4896 | 0.0315 | nL/L | # | 91 |
| T 2-Butanone | 7.666 | 43.0 | 36089 | 0.3009 | nL/L | | 95 |
| T cis-1,2-Dichloroethene | 8.248 | 61.0 | 674 | 0.0088 | nL/L | # | 1 |
| T Ethyl Acetate | 8.248 | 61.0 | 674 | 0.0358 | nL/L | # | 13 |
| T n-Hexane | 8.252 | 57.0 | 4212 | 0.0487 | nL/L | | 93 |
| T Chloroform | 8.297 | 83.0 | 4616 | 0.0473 | nL/L | | 78 |
| T Tetrahydrofuran | 8.676 | 72.0 | 33075 | 1.5377 | nL/L | | 93 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 21 | 0.0003 | nL/L | | 46 |
| T 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Benzene | 9.608 | 78.0 | 2753 | 0.0196 | nL/L | # | 90 |
| T Carbon Tetrachloride | 9.750 | 117.0 | 3039 | 0.0302 | nL/L | # | 96 |
| T Cyclohexane | 9.876 | 84.0 | 578 | 0.0098 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 10.336 | 63.0 | 3262 | 0.0492 | nL/L | # | 39 |
| T Methane, bromodichloro- | 10.508 | 83.0 | 496 | 0.0046 | nL/L | # | 71 |
| T 1,4-Dioxane | 10.589 | 88.0 | 201 | 0.0058 | nL/L | # | 1 |
| T Trichloroethene | 10.556 | 132.0 | 1221 | 0.0181 | nL/L | # | 90 |
| T 2,2,4-Trimethylpentane | 10.614 | 57.0 | 1782 | 0.0059 | nL/L | # | 84 |
| T Methyl methacrylate | 10.724 | 69.0 | 23 | 0.0004 | nL/L | # | 1 |
| T n-Heptane | 10.838 | 71.0 | 1474 | 0.0283 | nL/L | | 86 |
| T cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 4-Methyl-2-Pentanone | 11.404 | 58.0 | 946 | 0.0163 | nL/L | # | 62 |
| T trans-1,3-Dichloropropene | 11.809 | 110.0 | 34 | 0.0016 | nL/L | # | 59 |
| T 1,1,2-Trichloroethane | 12.230 | 97.0 | 624 | 0.0099 | nL/L | | 16 |
| T Toluene | 12.278 | 91.0 | 37378 | 0.1950 | nL/L | # | 98 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 46216102 | 3.5872 | nL/L | | 100 |
| T 2-Hexanone | 12.540 | 58.0 | 2055 | 0.0275 | nL/L | # | 85 |
| T Dibromochloromethane | 12.670 | 129.0 | 108 | 0.0009 | nL/L | # | 36 |
| T 1,2-Dibromoethane | 12.945 | 108.9 | 356 | 0.0037 | nL/L | | 87 |
| T Tetrachloroethene | 13.379 | 166.0 | 982 | 0.0099 | nL/L | # | 74 |
| T 1,1,1,2-Tetrachloroethane | 13.854 | 131.0 | 170 | 0.0025 | nL/L | # | 1 |
| T Benzene, chloro- | 14.052 | 112.0 | 455 | 0.0033 | nL/L | | 45 |
| T Ethylbenzene | 14.443 | 91.0 | 22116 | 0.1016 | nL/L | | 98 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 38867239 | 4.1303 | nL/L | | 100 |
| T m,p-Xylenes | 14.615 | 91.0 | 77521 | 0.4430 | nL/L | | 100 |
| T Bromoform | 14.709 | 173.0 | 47 | 0.0004 | nL/L | | 38 |
| T Styrene | 15.003 | 104.0 | 18445 | 0.1330 | nL/L | | 98 |
| T 1,1,2,2-Tetrachloroethane | 15.032 | 83.0 | 192 | 0.0015 | nL/L | # | 1 |
| T o-Xylene | 15.123 | 91.0 | 47078 | 0.2617 | nL/L | | 99 |
| T n-Nonane | 15.363 | 85.0 | 3750 | 0.0902 | nL/L | # | 89 |
| T Isopropylbenzene | 15.774 | 105.0 | 4639 | 0.0188 | nL/L | # | 94 |
| T 2-Chlorotoluene | 16.395 | 126.0 | 69 | 0.0011 | nL/L | # | 1 |
| T n-Propylbenzene | 16.360 | 120.0 | 3239 | 0.0470 | nL/L | | 95 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 15580 | 0.0638 | nL/L | # | 95 |
| T 1,3,5-Trimethylbenzene | 16.625 | 105.0 | 28344 | 0.1341 | nL/L | | 99 |
| T 1,2,4-Trimethylbenzene | 17.133 | 105.0 | 98644 | 0.4701 | nL/L | | 99 |
| T Benzyl chloride | 17.298 | 91.0 | 729 | 0.0040 | nL/L | # | 32 |
| T 1,3-Dichlorobenzene | 17.408 | 146.0 | 24236 | 0.1684 | nL/L | # | 91 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 24236 | 0.1665 | nL/L | # | 91 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 2836 | 0.0202 | nL/L | # | 59 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1338 | 0.0116 | nL/L | | 75 |
| T Naphthalene | 20.532 | 128.0 | 170694 | 0.7129 | nL/L | # | 98 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.121 | 225.0 | 204 | 0.0016 | nL/L | # | 47 |

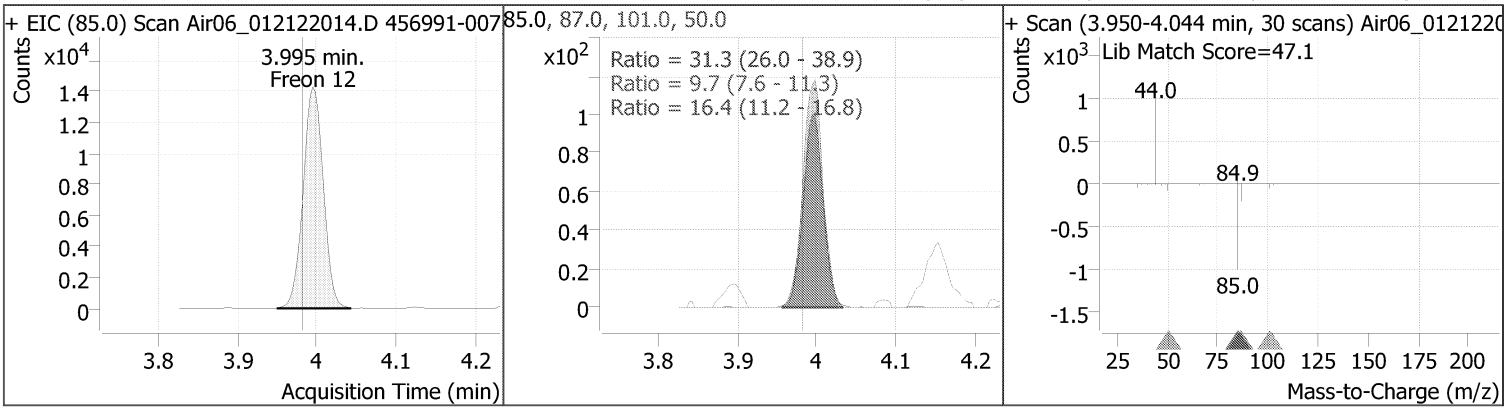
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

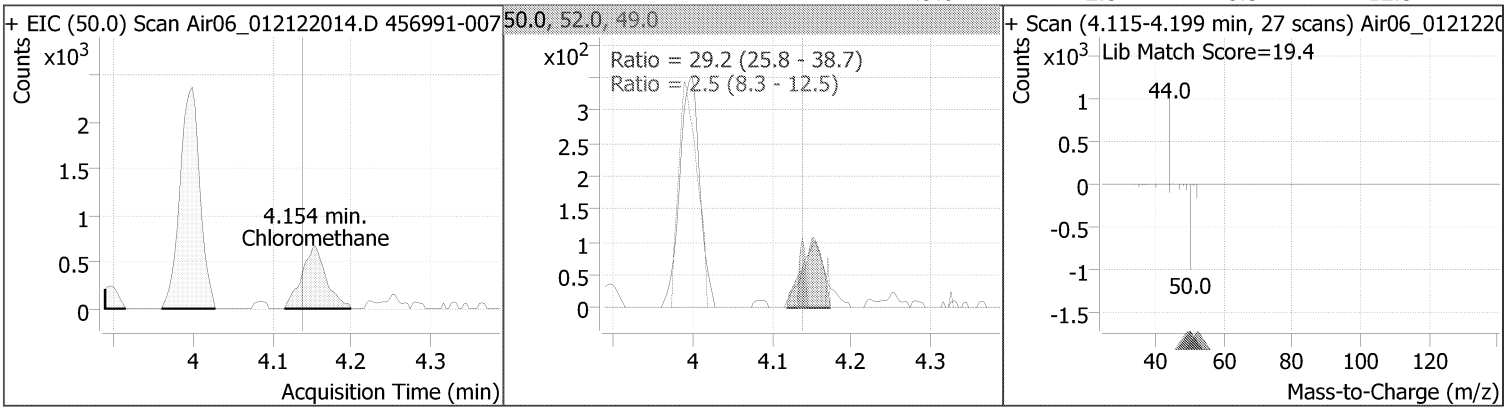
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.0894 | 3.93 | 0.03 | 3475 | 39.0 | 94.4 | 58.6 | 87.9 |
| | | | | | 42.0 | 47.3 | 52.5 | 78.7 |



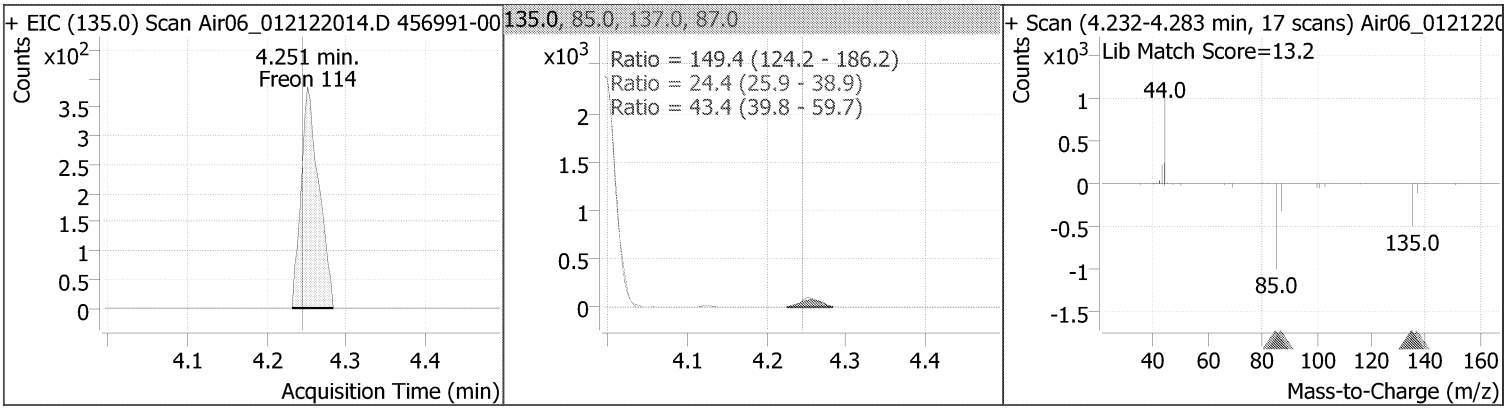

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.2466 | 4.00 | 0.02 | 25361 | 87.0 | 31.3 | 26.0 | 38.9 |
| | | | | | 50.0 | 16.4 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.7 | 7.6 | 11.3 |



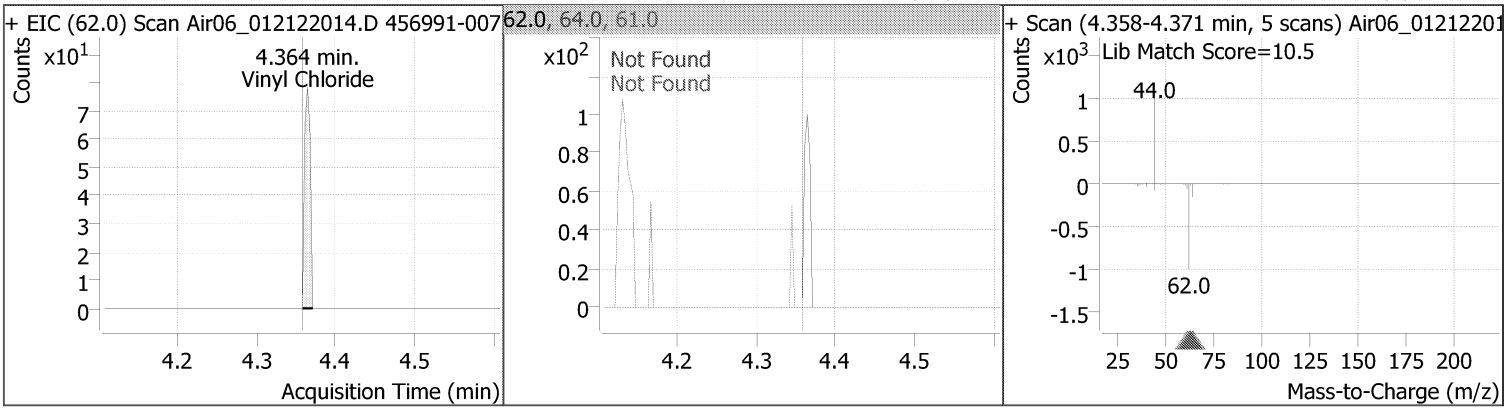

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0300 | 4.15 | 0.02 | 1449 | 52.0 | 29.2 | 25.8 | 38.7 |
| | | | | | 49.0 | 2.5 | 8.3 | 12.5 |



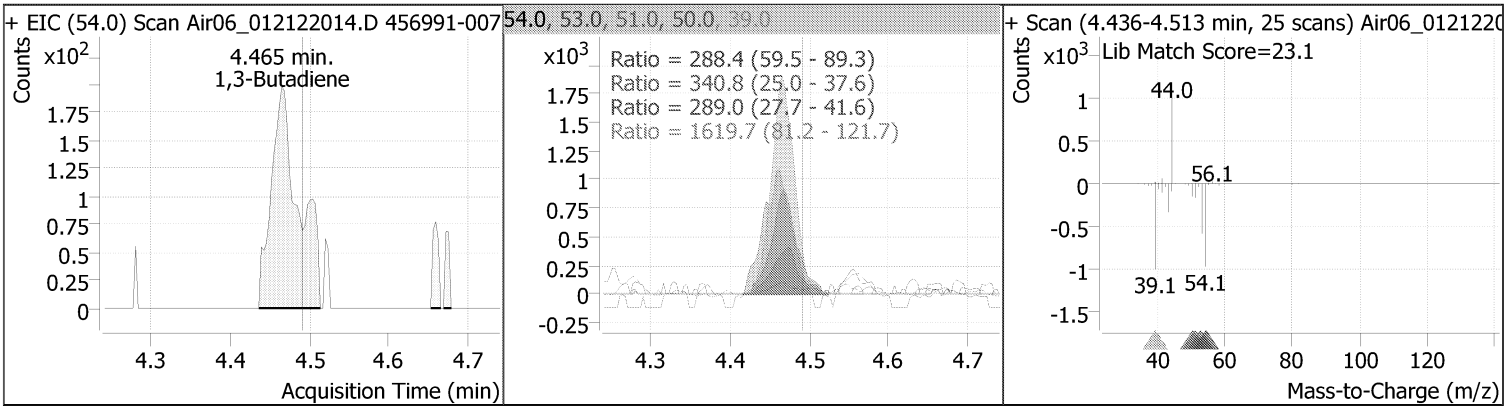
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.0082 | 4.25 | 0.01 | 598 | 85.0 | 149.4 | 124.2 | 186.2 |
| | | | | | 87.0 | 43.4 | 39.8 | 59.7 |
| | | | | | 137.0 | 24.4 | 25.9 | 38.9 |



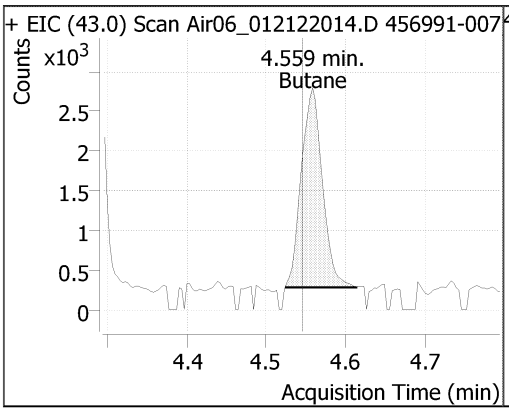

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.0008 | 4.36 | 0.01 | 40 | 64.0 | | 24.5 | 36.7 |
| | | | | | 61.0 | | 7.2 | 10.9 |

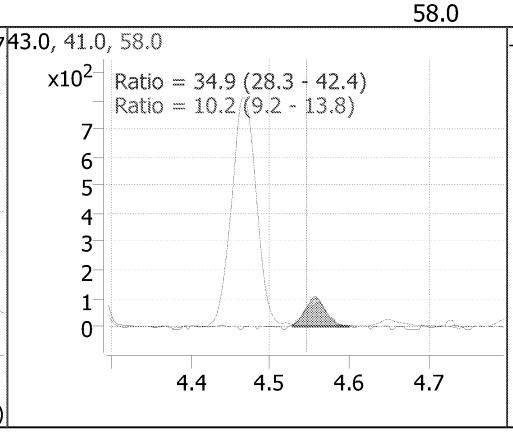


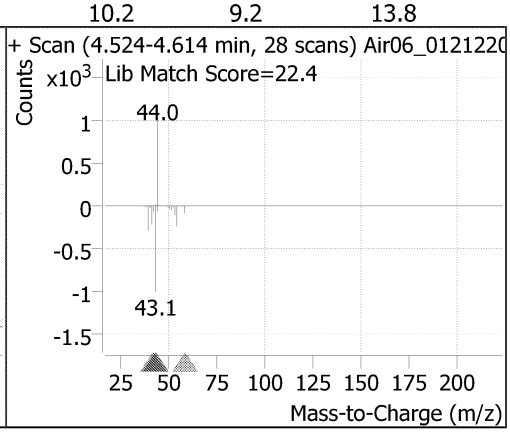

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0116 | 4.46 | -0.02 | 479 | 39.0 | 1619.7 | 81.2 | 121.7 |
| | | | | | 53.0 | 288.4 | 59.5 | 89.3 |
| | | | | | 50.0 | 289.0 | 27.7 | 41.6 |
| | | | | | 51.0 | 340.8 | 25.0 | 37.6 |



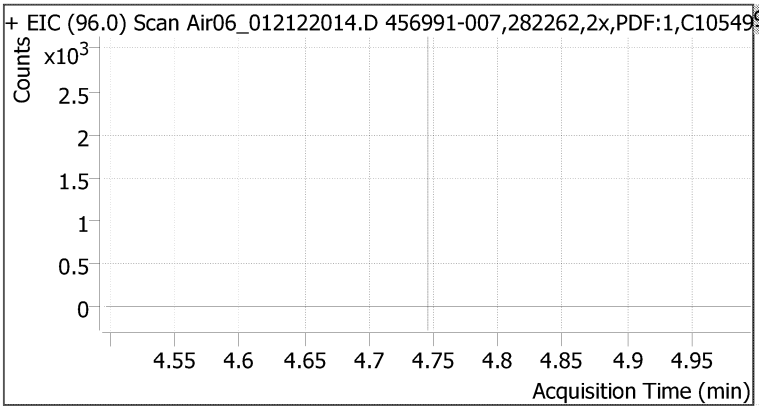
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0580 | 4.56 | 0.02 | 4658 | 41.0 | 34.9 | 28.3 | 42.4 |
| | | | | | 58.0 | 10.2 | 9.2 | 13.8 |

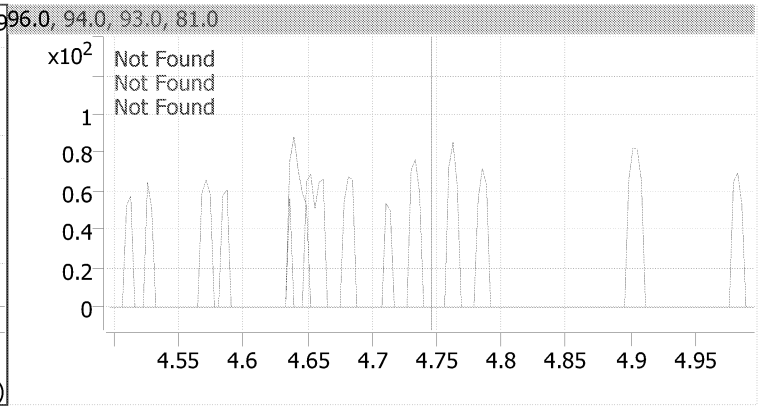


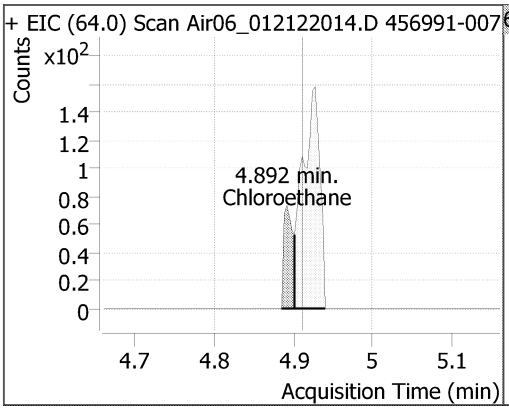



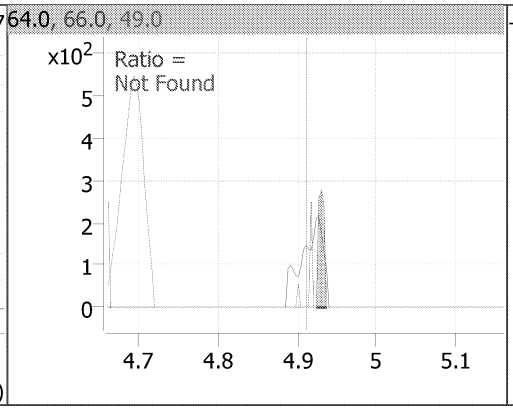

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | N.D. | 4.74 | 94.0 | 107.1 | 93.0 | 22.6 | 81.0 | 17.5 |

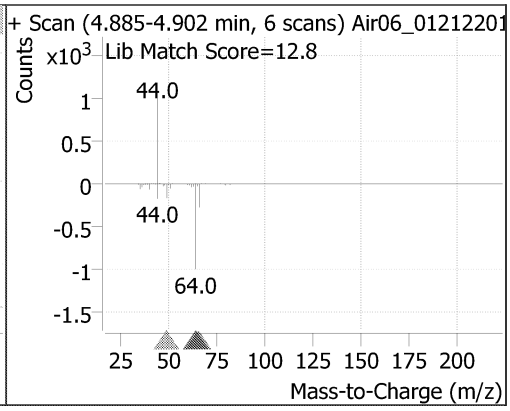


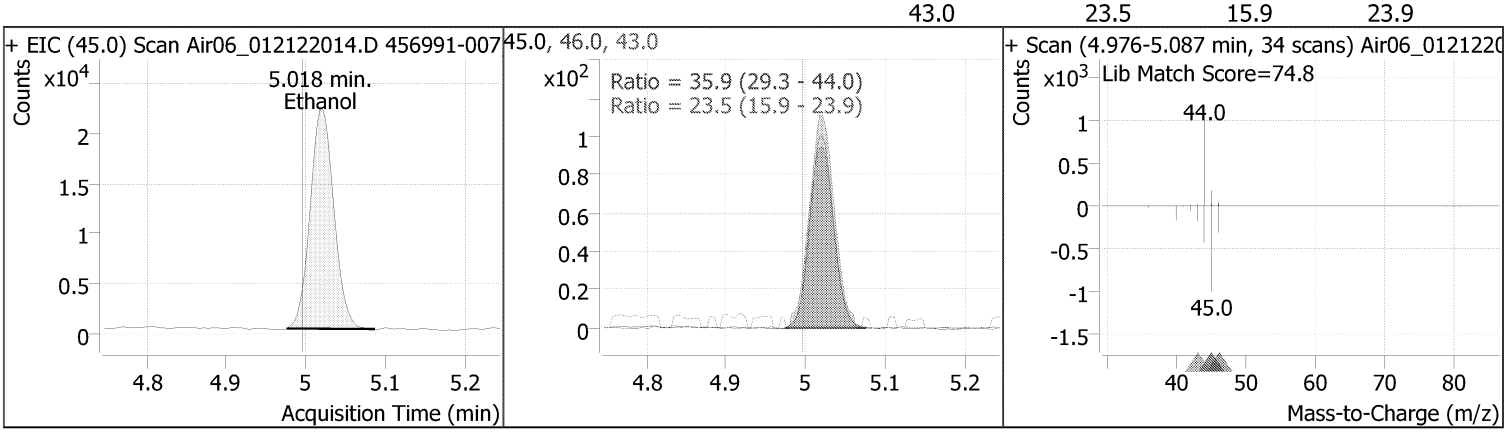

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.0024 | 4.89 | -0.02 | 56 | 49.0 | | 27.4 | 41.1 |
| | | | | | 66.0 | | 24.4 | 36.6 |



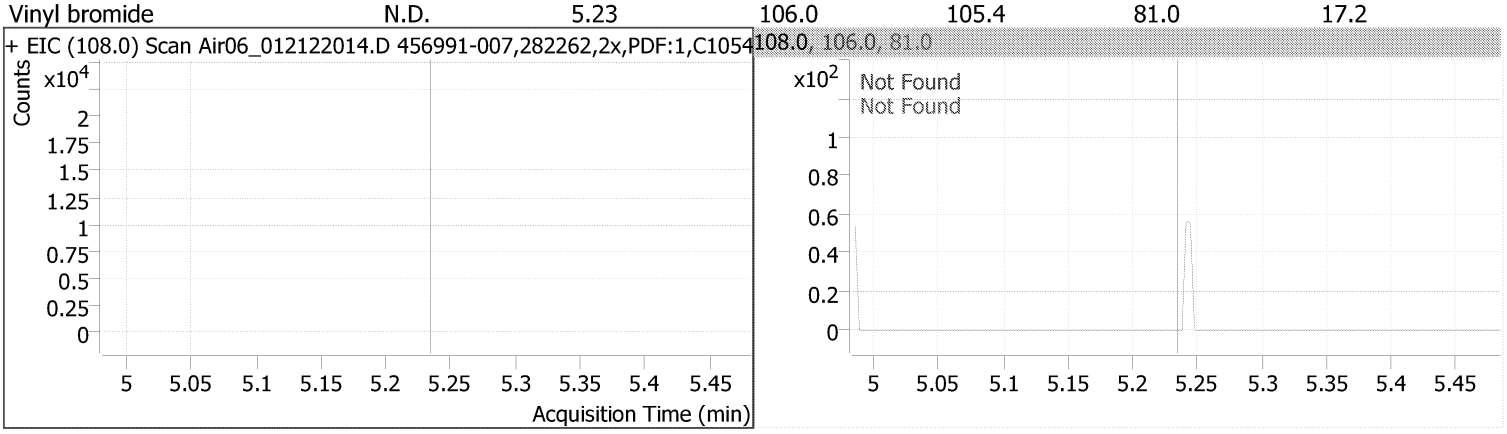



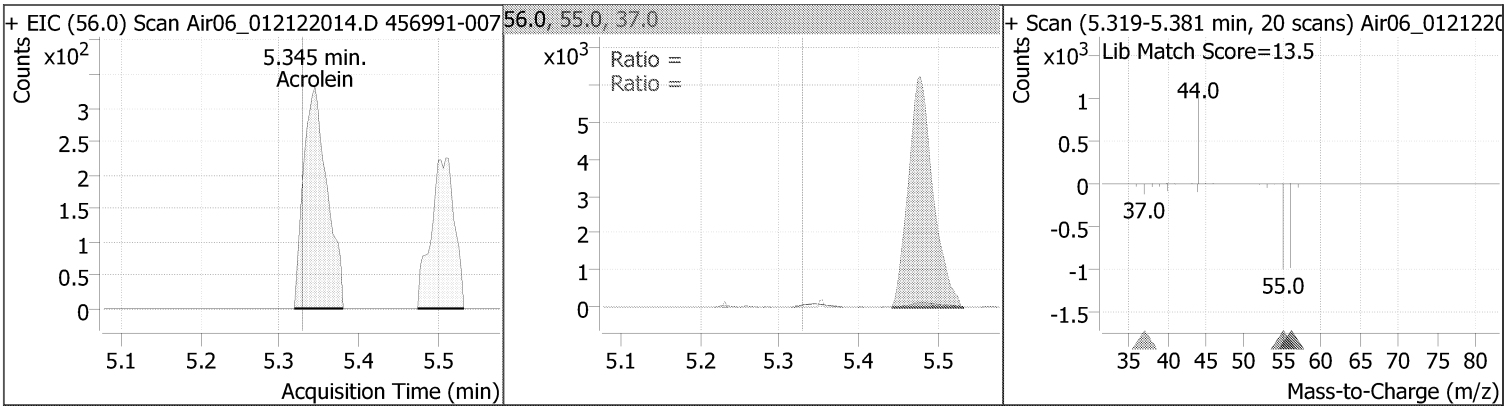
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 1.9217 | 5.02 | 0.03 | 45722 | 46.0 | 35.9 | 29.3 | 44.0 |
| | | | | | 43.0 | 23.5 | 15.9 | 23.9 |



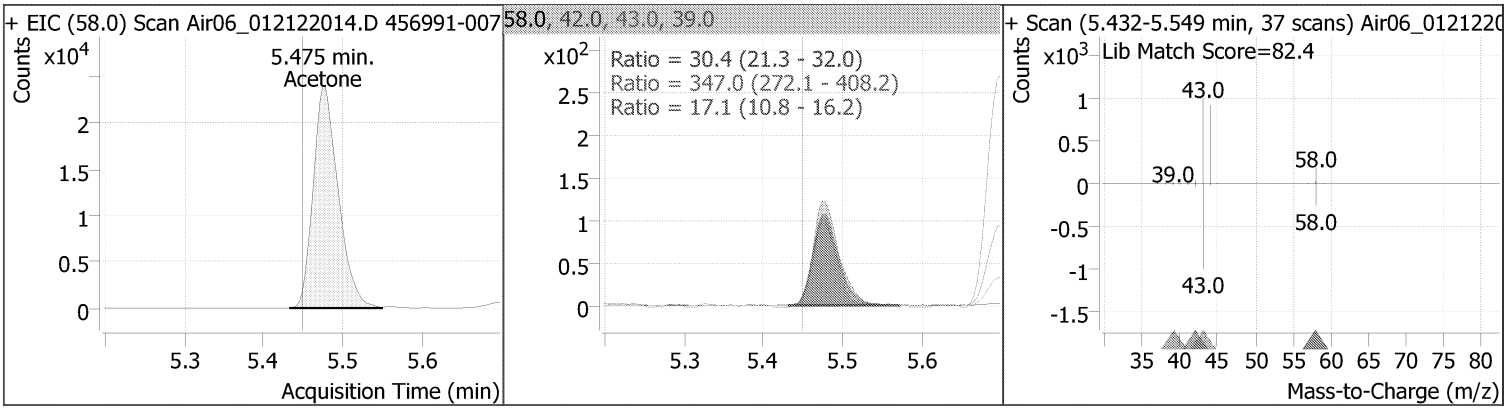

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.23 | 106.0 | 105.4 | 81.0 | 17.2 |



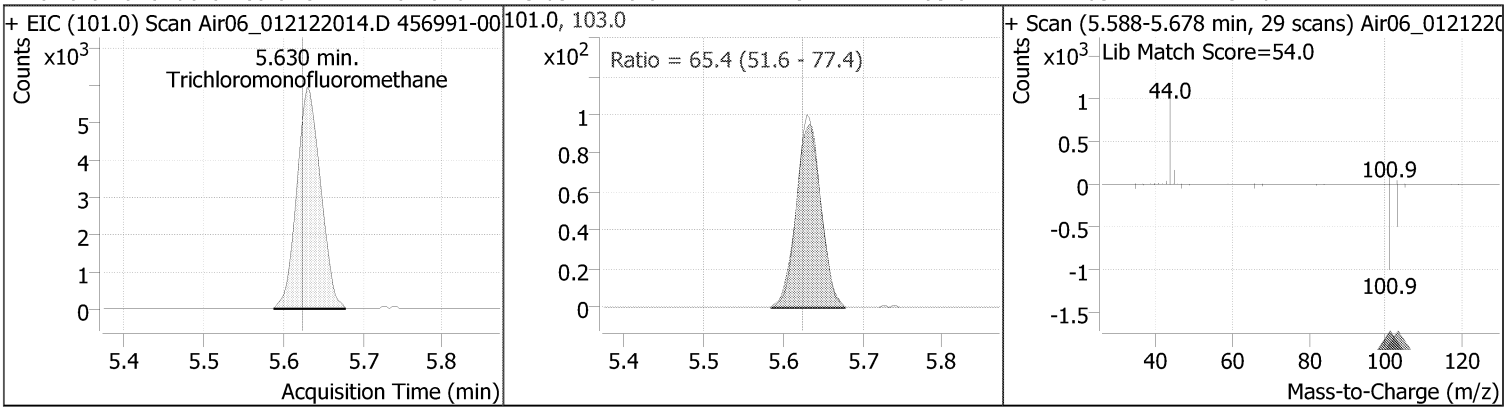

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0325 | 5.35 | 0.02 | 682 | 55.0 | | 59.2 | 88.8 |
| | | | | | 37.0 | | 7.3 | 11.0 |



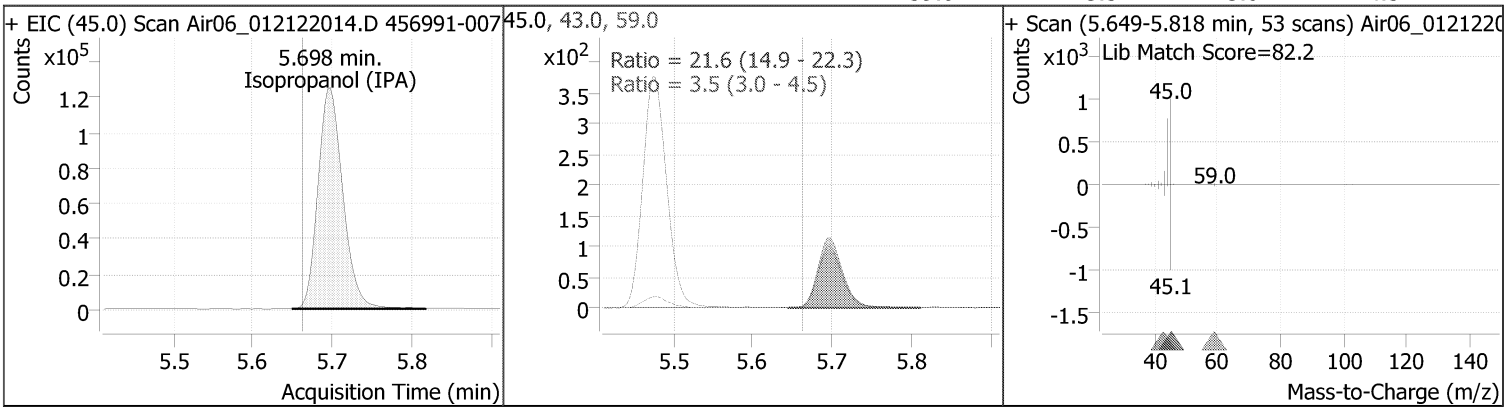
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 2.1195 | 5.47 | 0.03 | 52558 | 43.0 | 347.0 | 272.1 | 408.2 |
| | | | | | 42.0 | 30.4 | 21.3 | 32.0 |
| | | | | | 39.0 | 17.1 | 10.8 | 16.2 |



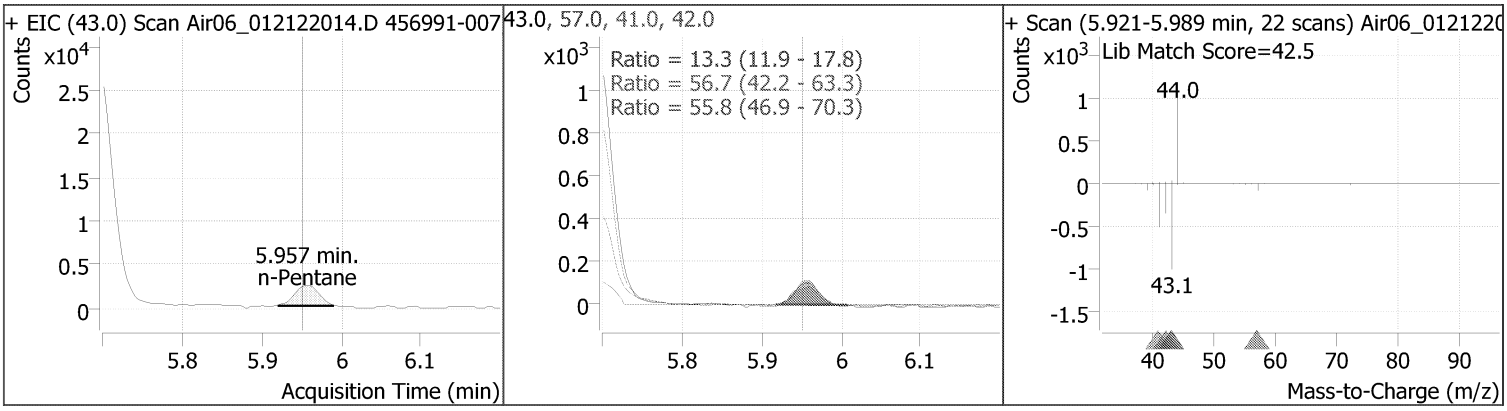

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 0.1026 | 5.63 | 0.01 | 12437 | 103.0 | 65.4 | 51.6 | 77.4 |



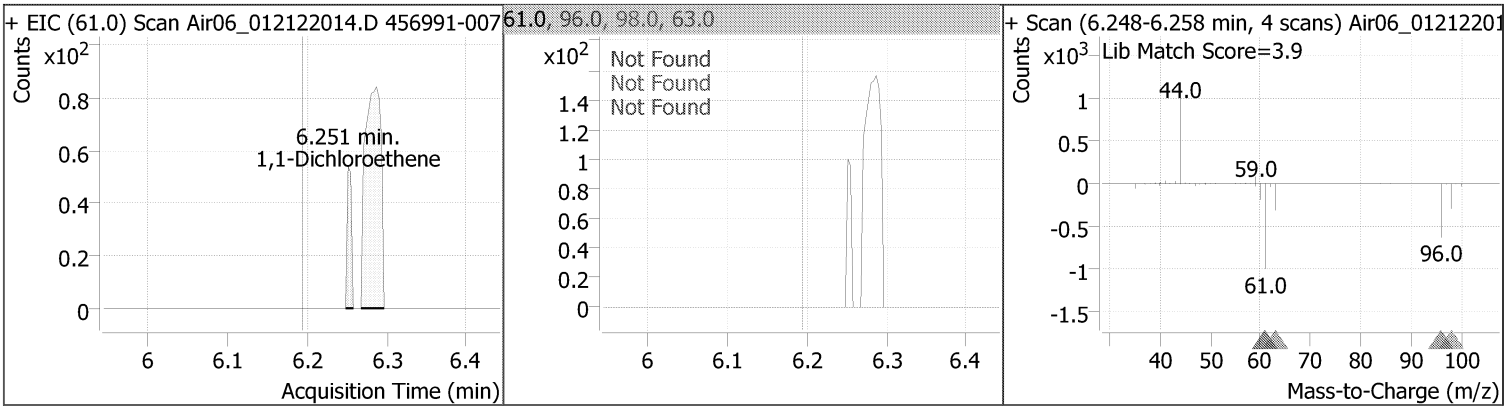

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 3.0726 | 5.70 | 0.04 | 272846 | 43.0 | 21.6 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.5 | 3.0 | 4.5 |



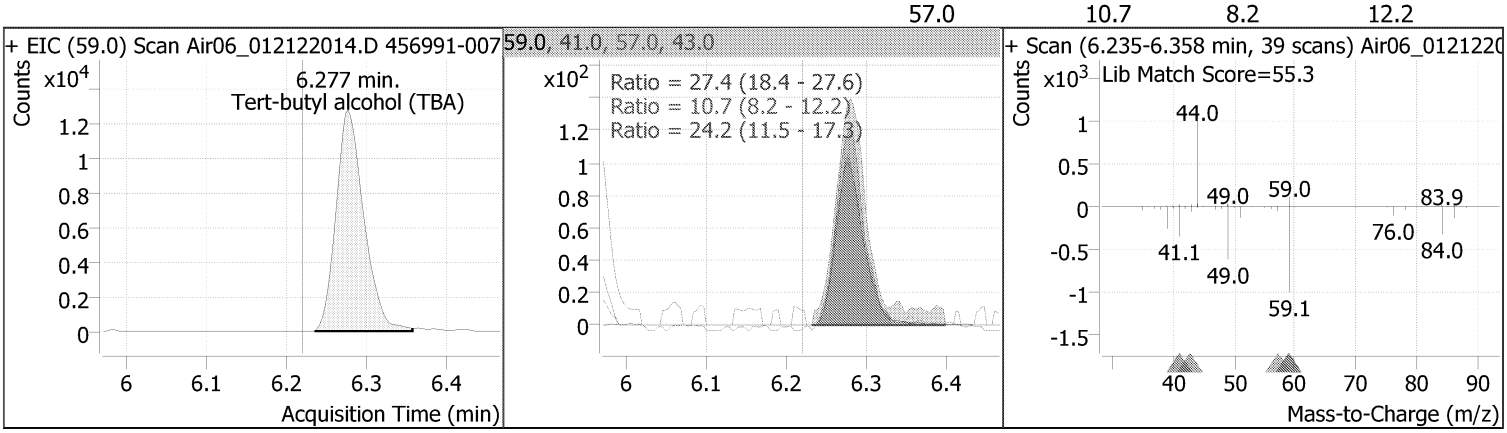
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.0507 | 5.96 | 0.01 | 5031 | 42.0 | 55.8 | 46.9 | 70.3 |
| | | | | | 41.0 | 56.7 | 42.2 | 63.3 |
| | | | | | 57.0 | 13.3 | 11.9 | 17.8 |



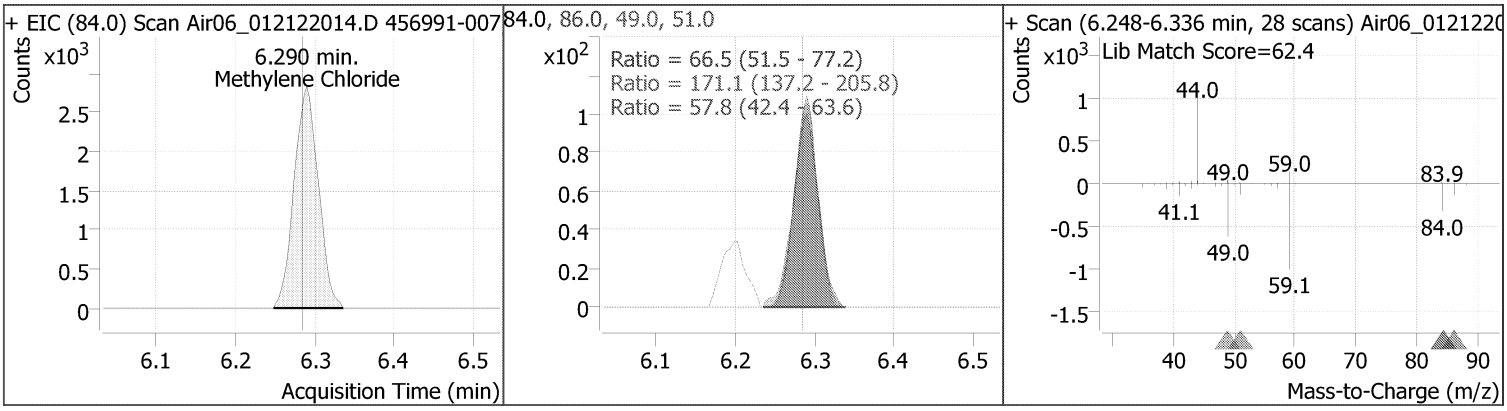

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0002 | 6.25 | 0.06 | 20 | 96.0 | | 40.6 | 60.8 |
| | | | | | 98.0 | | 25.8 | 38.7 |
| | | | | | 63.0 | | 24.7 | 37.1 |



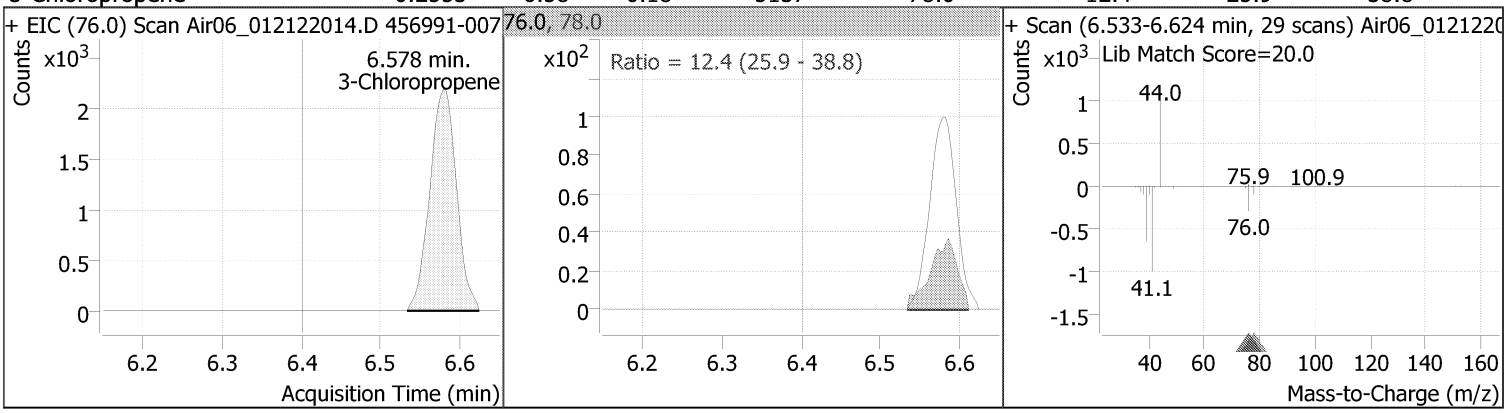

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.3029 | 6.28 | 0.06 | 31124 | 41.0 | 27.4 | 18.4 | 27.6 |
| | | | | | 43.0 | 24.2 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.7 | 8.2 | 12.2 |



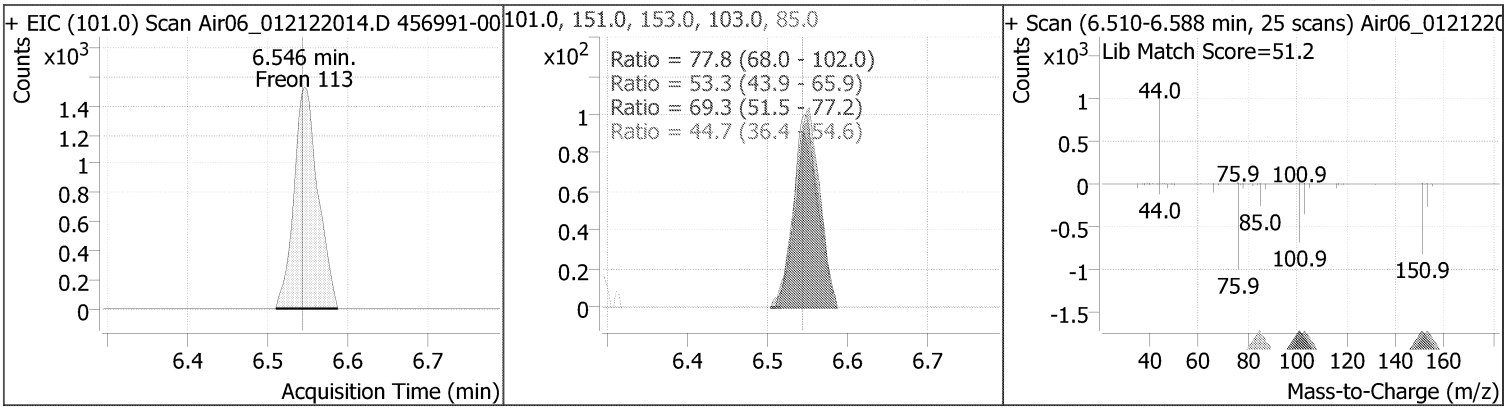
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1373 | 6.29 | 0.01 | 5995 | 49.0 | 171.1 | 137.2 | 205.8 |
| | | | | | 86.0 | 66.5 | 51.5 | 77.2 |
| | | | | | 51.0 | 57.8 | 42.4 | 63.6 |



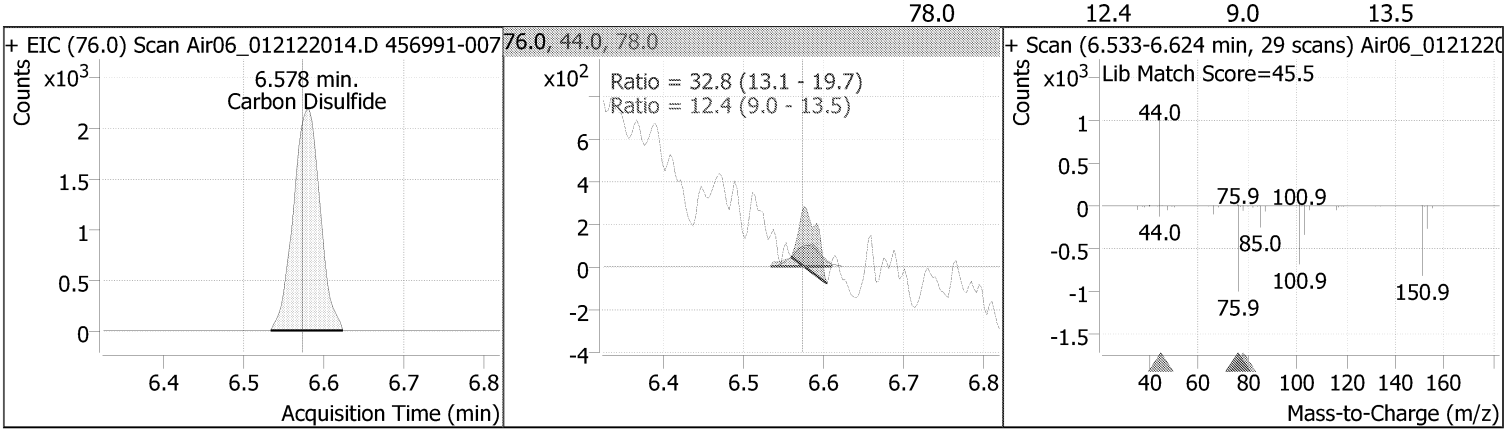

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 0.2553 | 6.58 | 0.18 | 5137 | 78.0 | 12.4 | 25.9 | 38.8 |



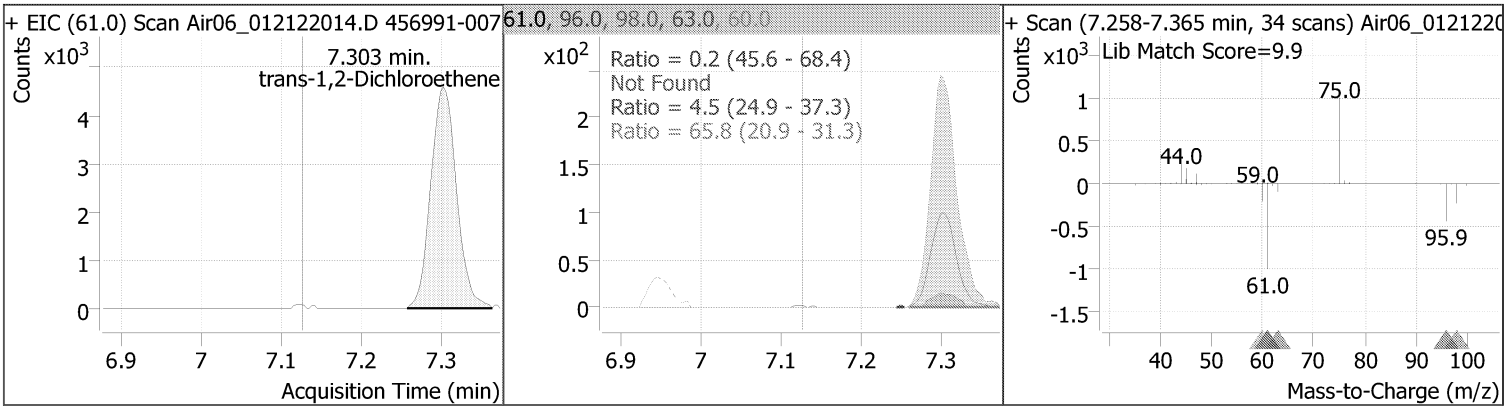

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.0329 | 6.55 | 0.01 | 3205 | 151.0 | 77.8 | 68.0 | 102.0 |
| | | | | | 103.0 | 69.3 | 51.5 | 77.2 |
| | | | | | 153.0 | 53.3 | 43.9 | 65.9 |
| | | | | | 85.0 | 44.7 | 36.4 | 54.6 |



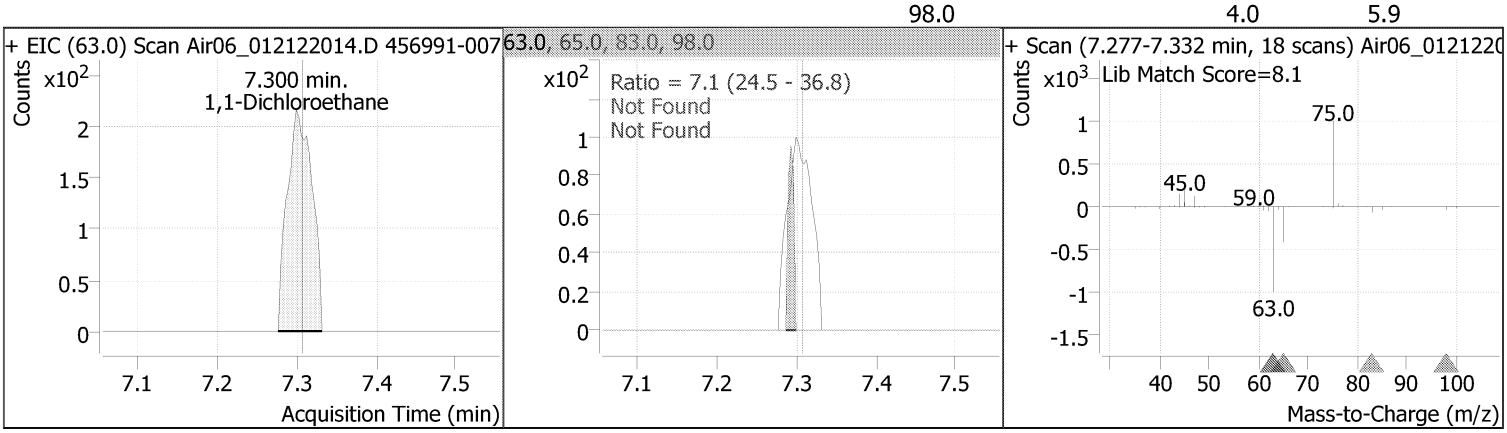
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.0407 | 6.58 | 0.01 | 5137 | 44.0 | 32.8 | 13.1 | 19.7 |
| | | | | | 78.0 | 12.4 | 9.0 | 13.5 |



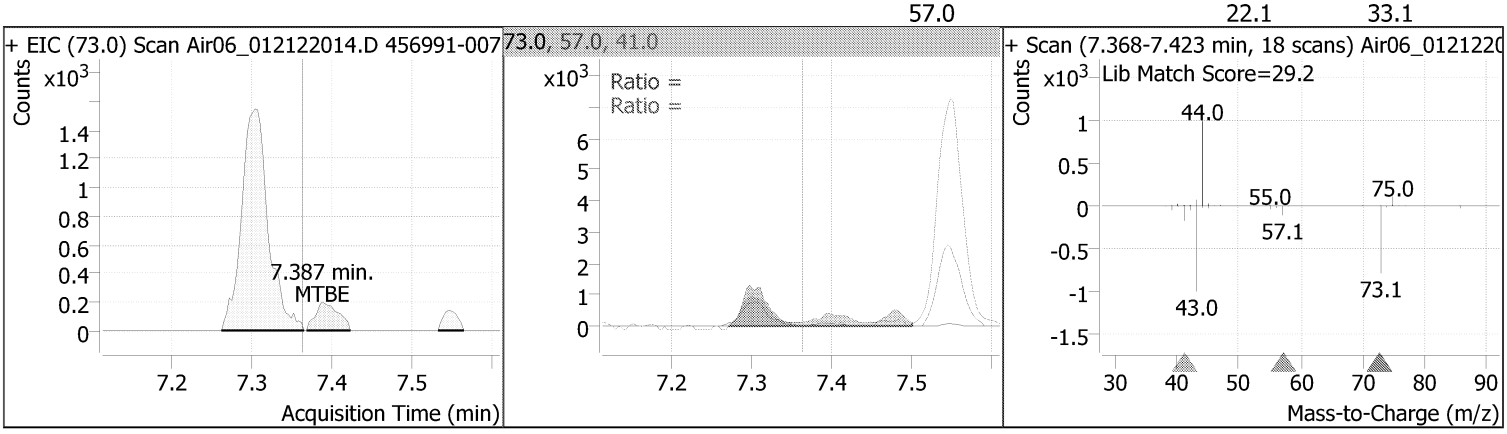

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.1371 | 7.30 | 0.18 | 10356 | 96.0 | 0.2 | 45.6 | 68.4 |
| | | | | | 98.0 | | 29.2 | 43.8 |
| | | | | | 63.0 | 4.5 | 24.9 | 37.3 |
| | | | | | 60.0 | 65.8 | 20.9 | 31.3 |



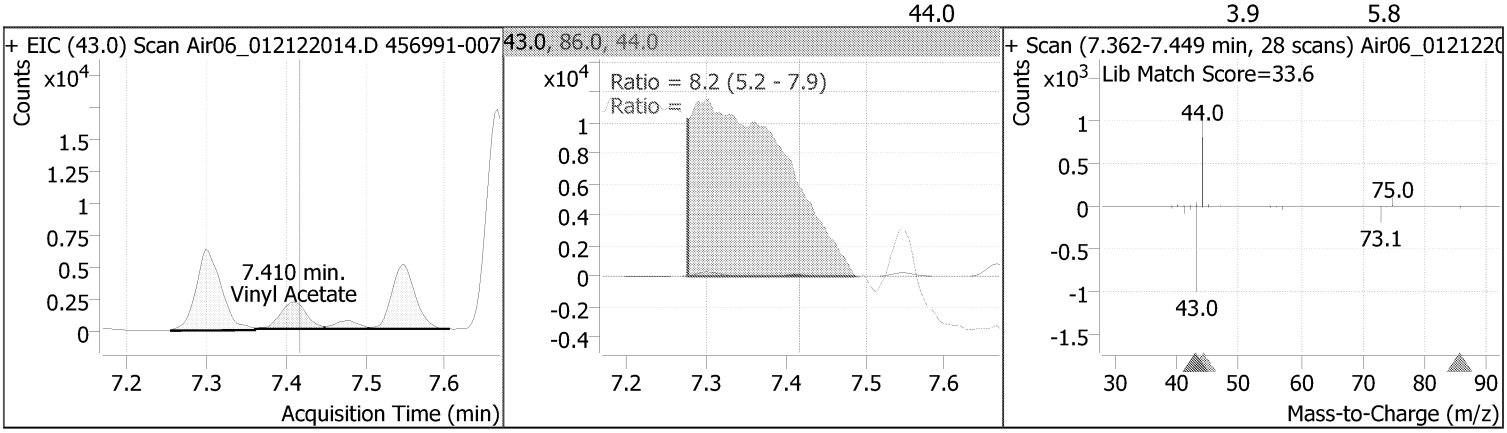

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.0051 | 7.30 | 0.00 | 469 | 65.0 | 7.1 | 24.5 | 36.8 |
| | | | | | 83.0 | | 9.7 | 14.6 |
| | | | | | 98.0 | | 4.0 | 5.9 |



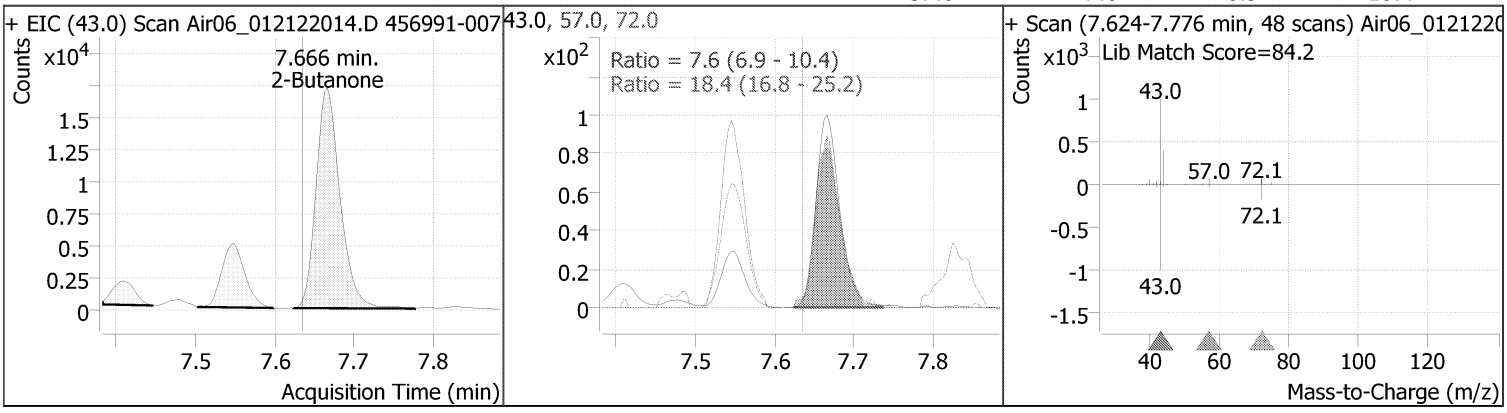
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.0032 | 7.39 | 0.03 | 398 | 41.0 | | 23.3 | 34.9 |
| | | | | | 57.0 | | 22.1 | 33.1 |



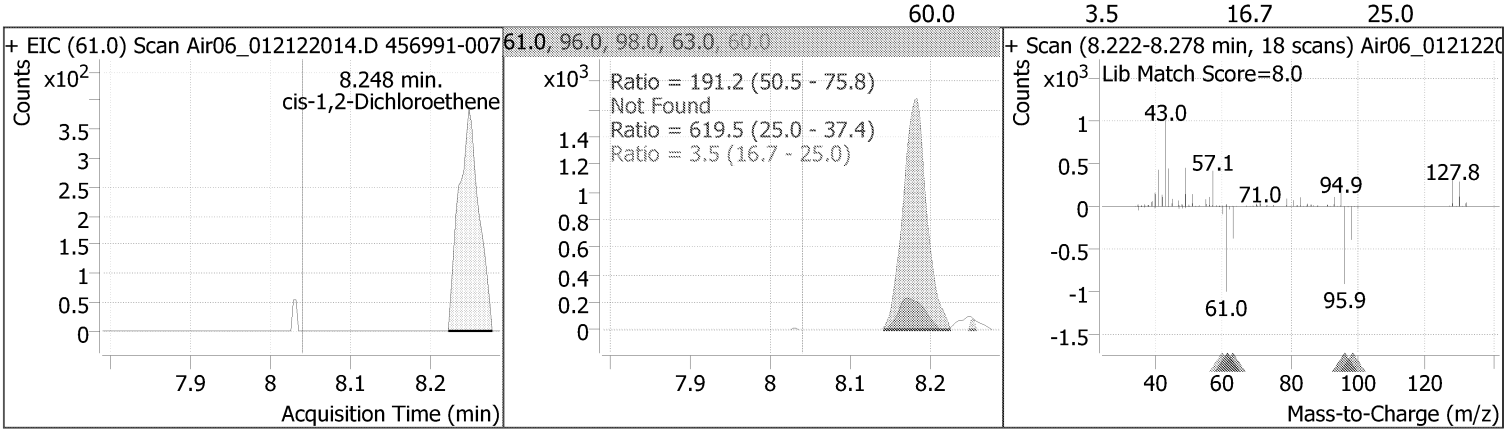

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.0315 | 7.41 | -0.01 | 4896 | 86.0 | 8.2 | 5.2 | 7.9 |
| | | | | | 44.0 | | 3.9 | 5.8 |



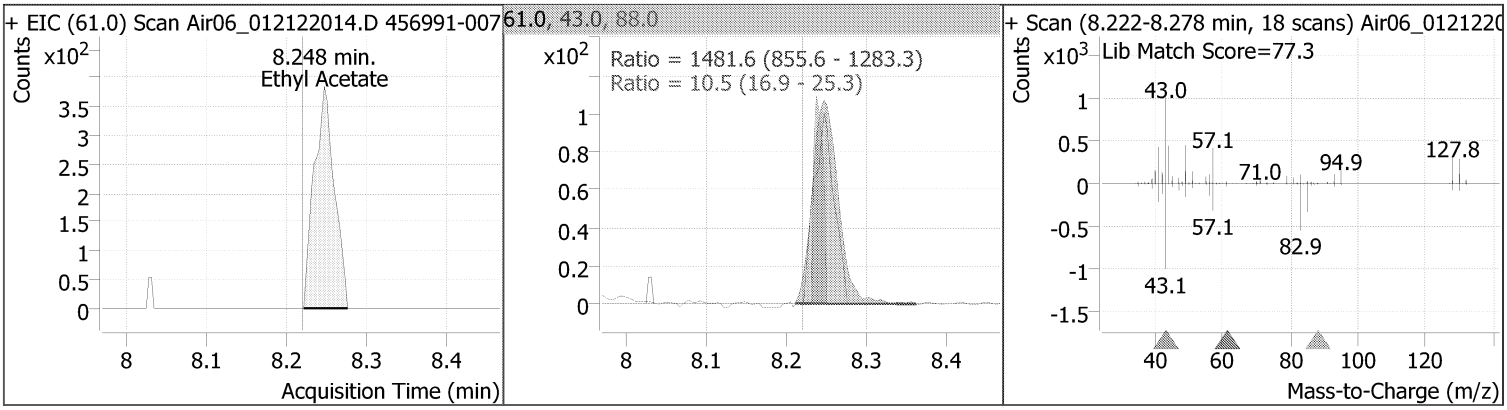

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.3009 | 7.67 | 0.04 | 36089 | 72.0 | 18.4 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.6 | 6.9 | 10.4 |



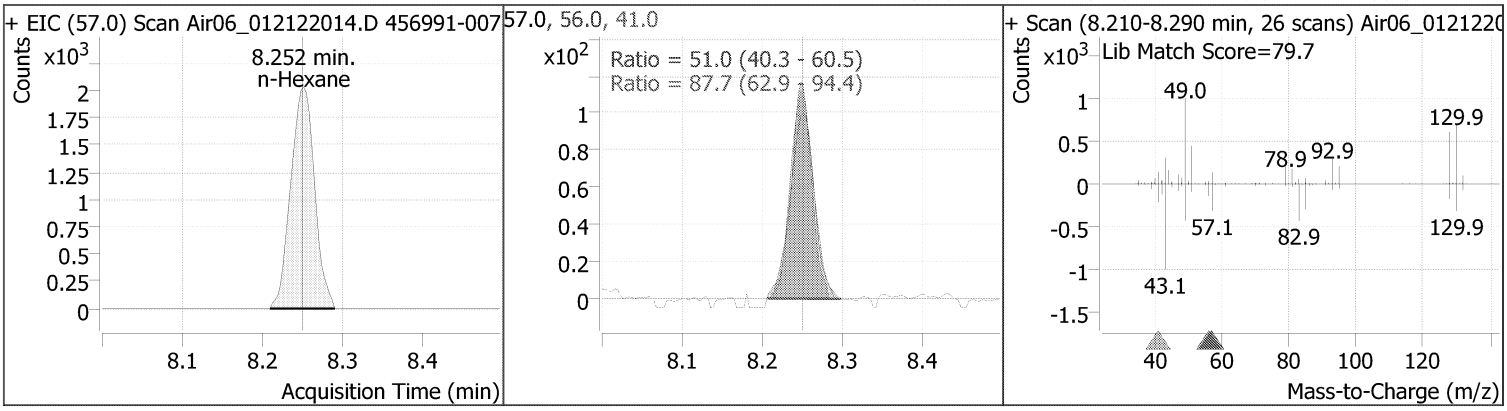
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.0088 | 8.25 | 0.21 | 674 | 96.0 | 191.2 | 50.5 | 75.8 |
| | | | | | 98.0 | | 32.0 | 48.0 |
| | | | | | 63.0 | 619.5 | 25.0 | 37.4 |
| | | | | | 60.0 | 3.5 | 16.7 | 25.0 |



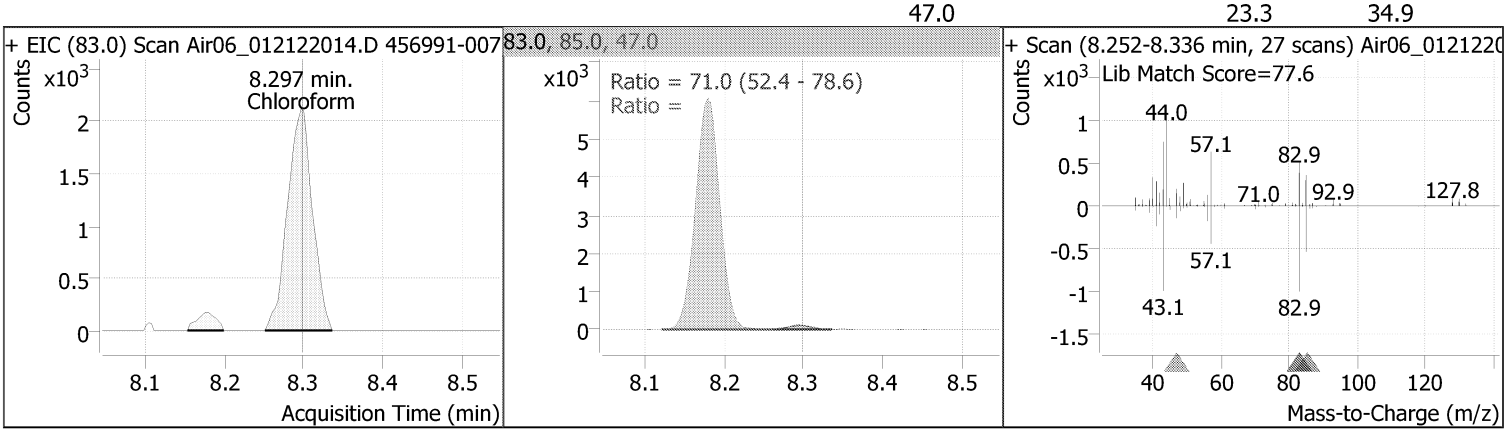

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.0358 | 8.25 | 0.03 | 674 | 43.0 | 1481.6 | 855.6 | 1283.3 |
| | | | | | 88.0 | 10.5 | 16.9 | 25.3 |



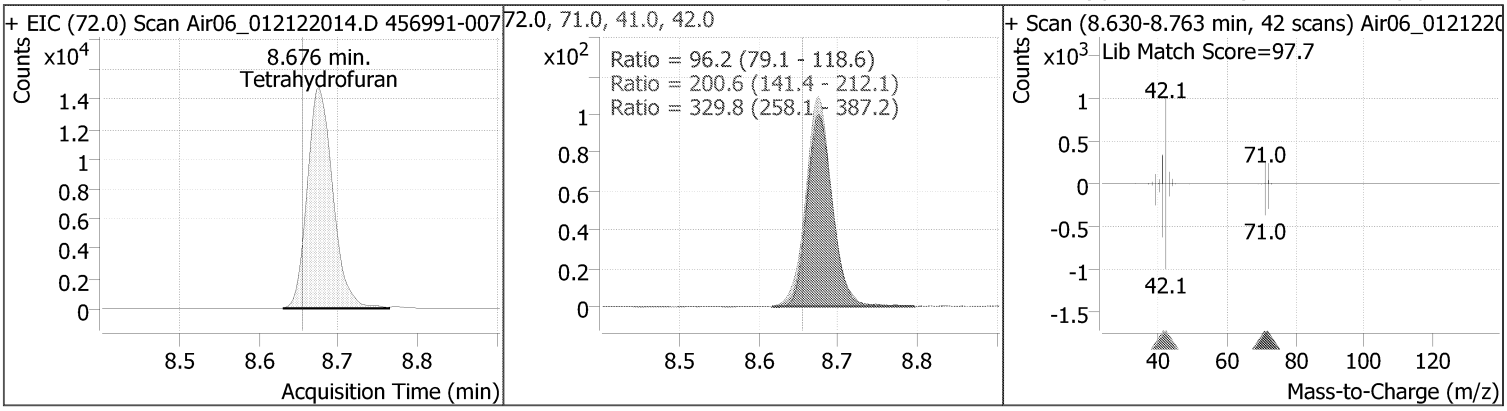

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0487 | 8.25 | 0.01 | 4212 | 41.0 | 87.7 | 62.9 | 94.4 |
| | | | | | 56.0 | 51.0 | 40.3 | 60.5 |



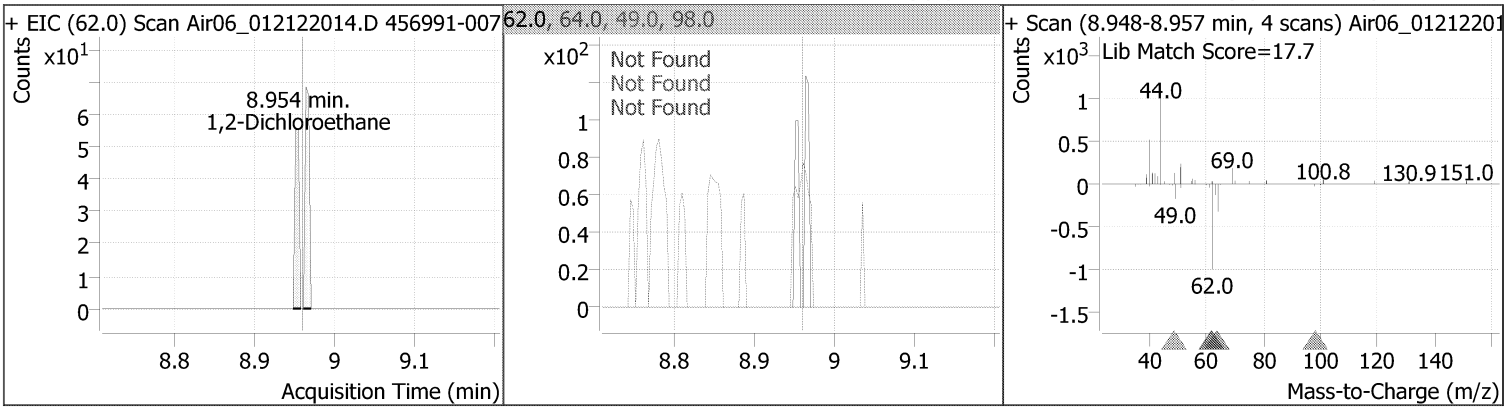
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0473 | 8.30 | 0.00 | 4616 | 85.0 | 71.0 | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



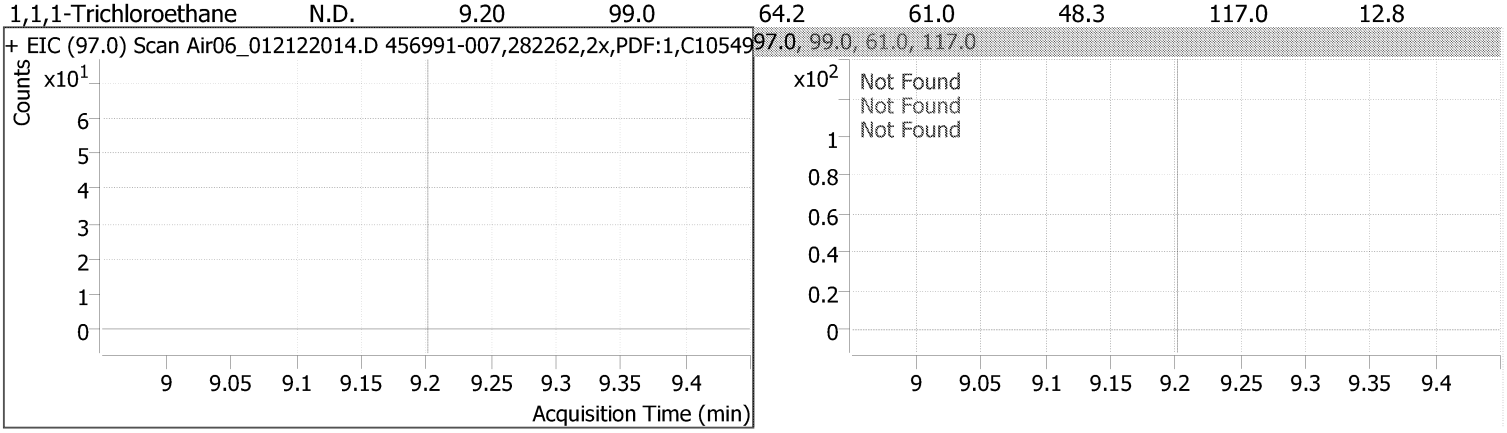

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 1.5377 | 8.68 | 0.03 | 33075 | 42.0 | 329.8 | 258.1 | 387.2 |
| | | | | | 41.0 | 200.6 | 141.4 | 212.1 |
| | | | | | 71.0 | 96.2 | 79.1 | 118.6 |



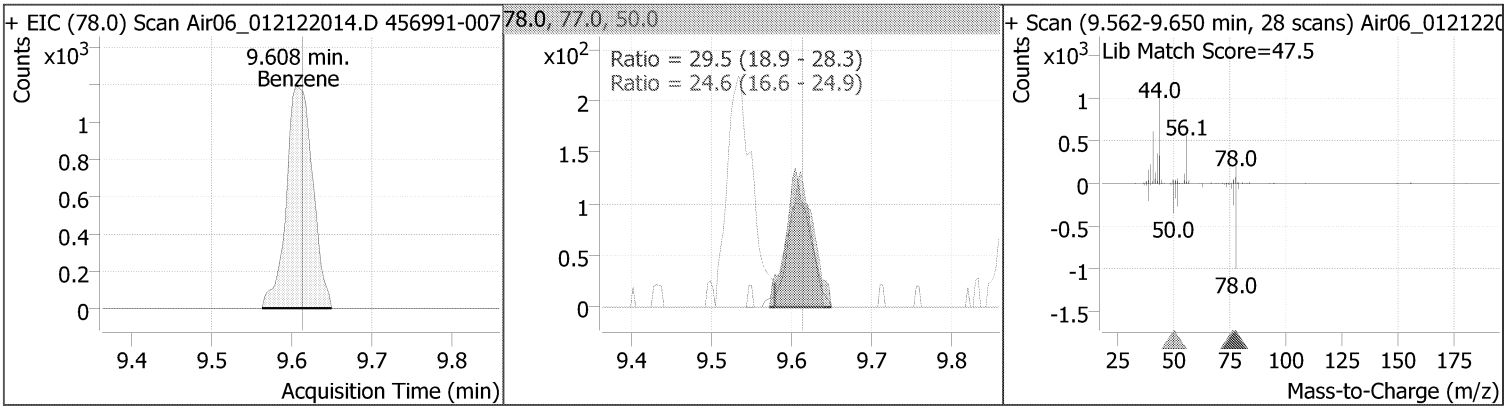

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0003 | 8.95 | 0.00 | 21 | 49.0 | | 25.9 | 38.8 |
| | | | | | 64.0 | | 25.3 | 37.9 |
| | | | | | 98.0 | | 5.8 | 8.7 |



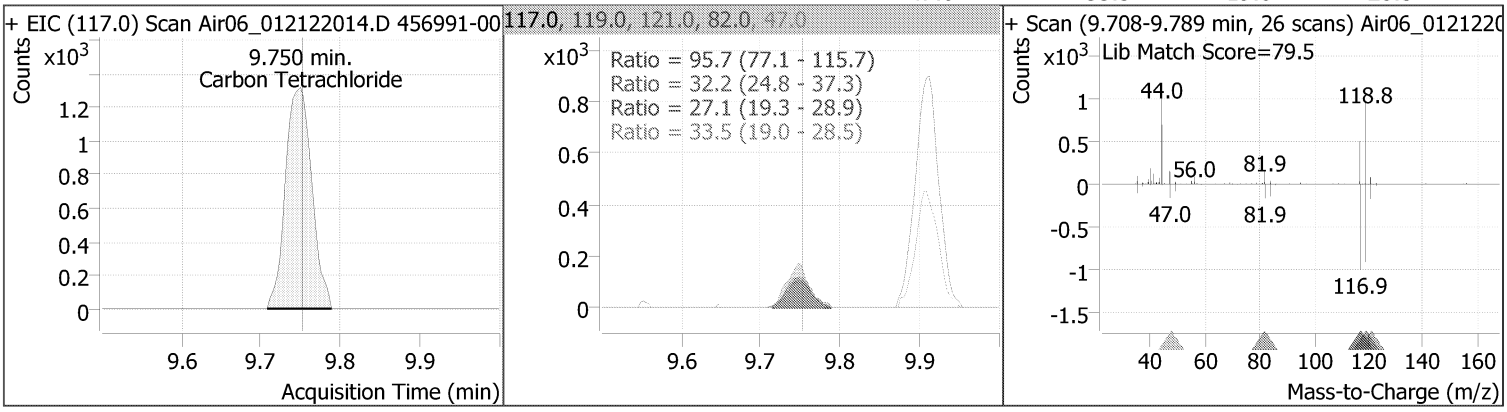
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | N.D. | 9.20 | 99.0 | 64.2 | 61.0 | 48.3 | 117.0 | 12.8 |



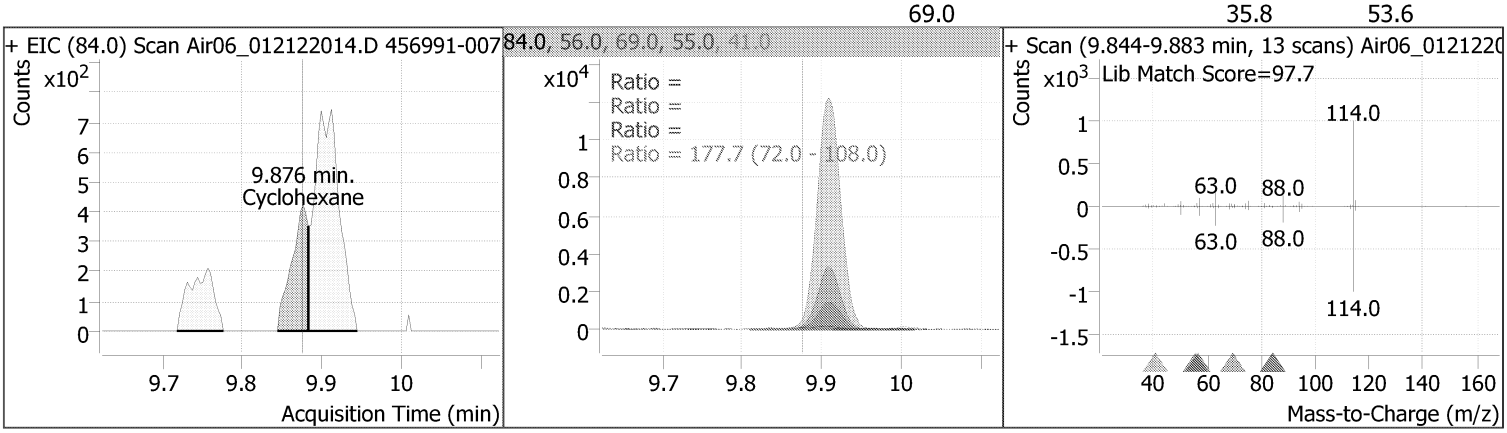

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0196 | 9.61 | 0.00 | 2753 | 77.0 | 29.5 | 18.9 | 28.3 |
| | | | | | 50.0 | 24.6 | 16.6 | 24.9 |



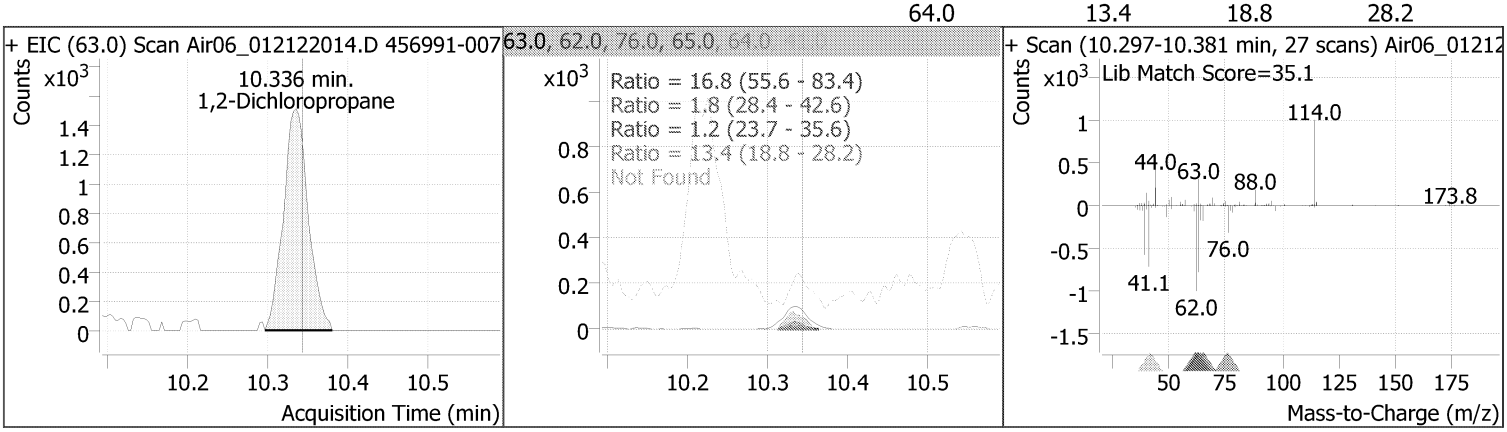

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.0302 | 9.75 | 0.00 | 3039 | 119.0 | 95.7 | 77.1 | 115.7 |
| | | | | | 121.0 | 32.2 | 24.8 | 37.3 |
| | | | | | 82.0 | 27.1 | 19.3 | 28.9 |
| | | | | | 47.0 | 33.5 | 19.0 | 28.5 |



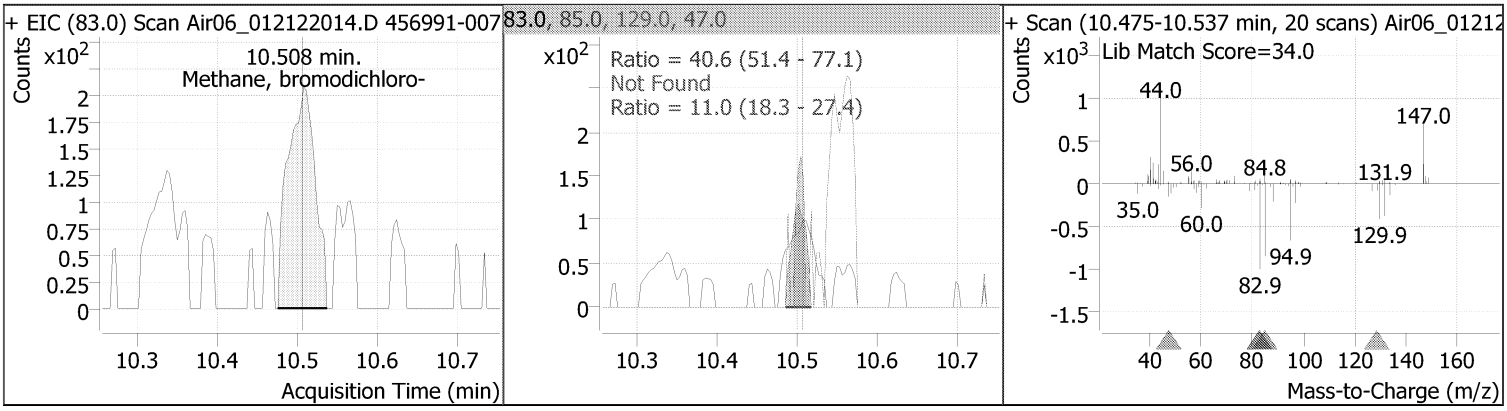
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0098 | 9.88 | 0.01 | 578 | 56.0 | | 131.3 | 197.0 |
| | | | | | 41.0 | 177.7 | 72.0 | 108.0 |
| | | | | | 55.0 | | 48.2 | 72.3 |
| | | | | | 69.0 | | 35.8 | 53.6 |



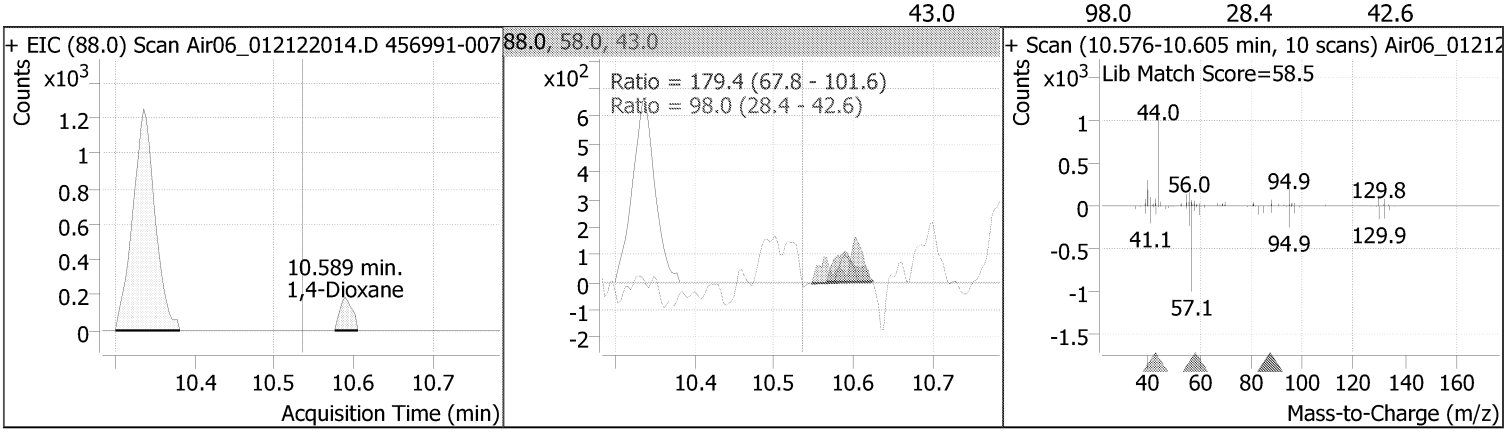

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0492 | 10.34 | -0.01 | 3262 | 62.0 | 16.8 | 55.6 | 83.4 |
| | | | | | 41.0 | | 46.5 | 69.7 |
| | | | | | 76.0 | 1.8 | 28.4 | 42.6 |
| | | | | | 65.0 | 1.2 | 23.7 | 35.6 |
| | | | | | 64.0 | 13.4 | 18.8 | 28.2 |



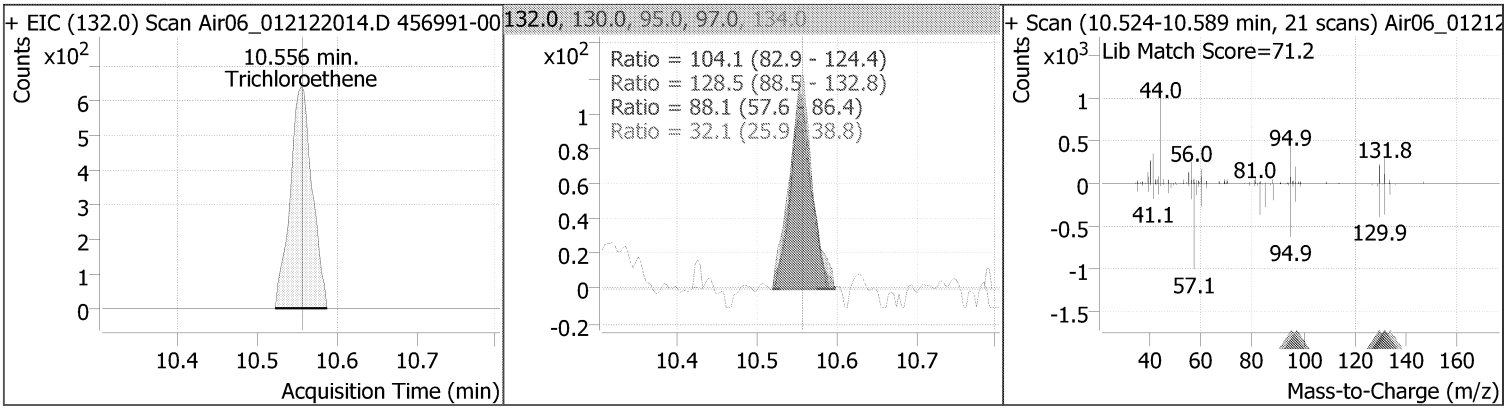

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0046 | 10.51 | 0.00 | 496 | 85.0 | 40.6 | 51.4 | 77.1 |
| | | | | | 47.0 | 11.0 | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



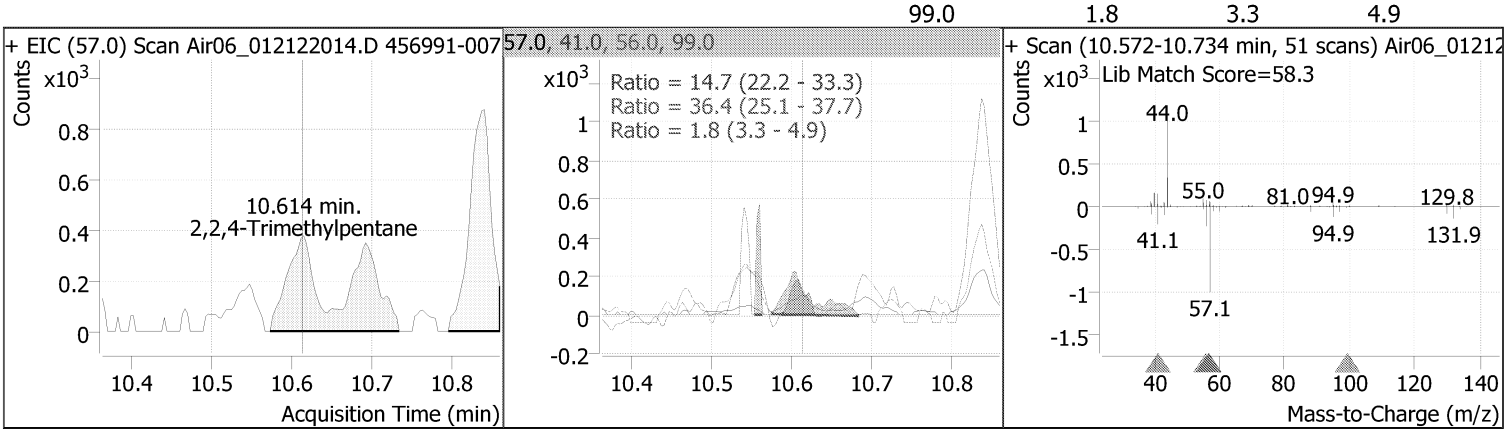
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0058 | 10.59 | 0.06 | 201 | 58.0 | 179.4 | 67.8 | 101.6 |
| | | | | | 43.0 | 98.0 | 28.4 | 42.6 |



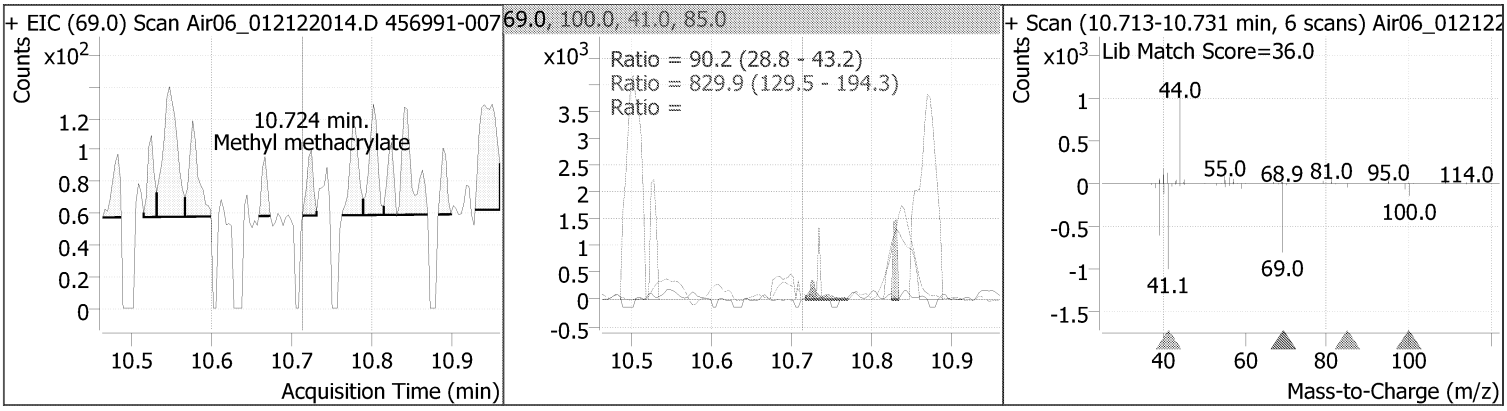

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0181 | 10.56 | 0.00 | 1221 | 95.0 | 128.5 | 88.5 | 132.8 |
| | | | | | 130.0 | 104.1 | 82.9 | 124.4 |
| | | | | | 97.0 | 88.1 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.1 | 25.9 | 38.8 |



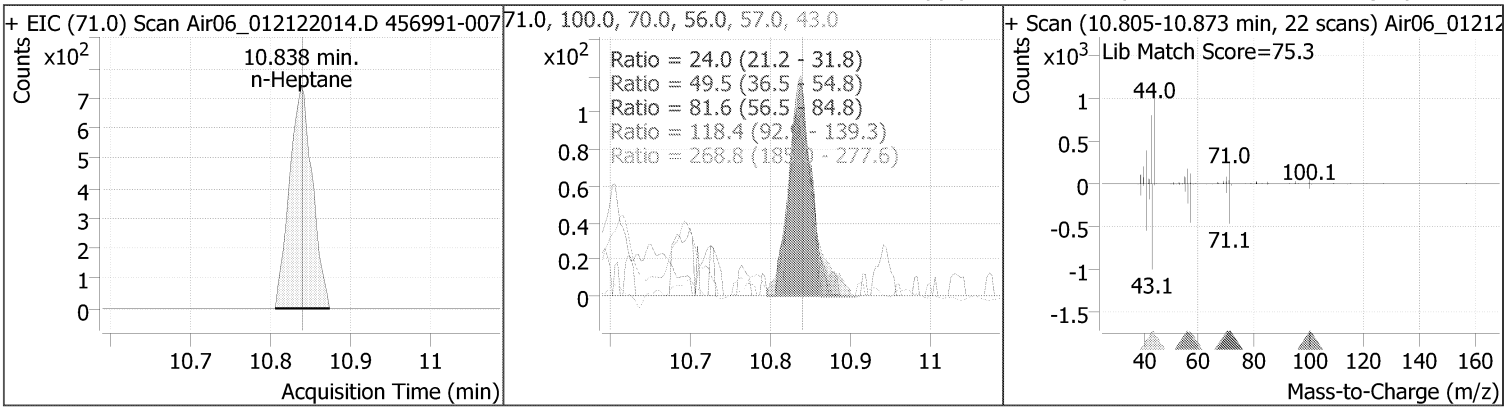

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0059 | 10.61 | 0.00 | 1782 | 56.0 | 36.4 | 25.1 | 37.7 |
| | | | | | 41.0 | 14.7 | 22.2 | 33.3 |
| | | | | | 99.0 | 1.8 | 3.3 | 4.9 |



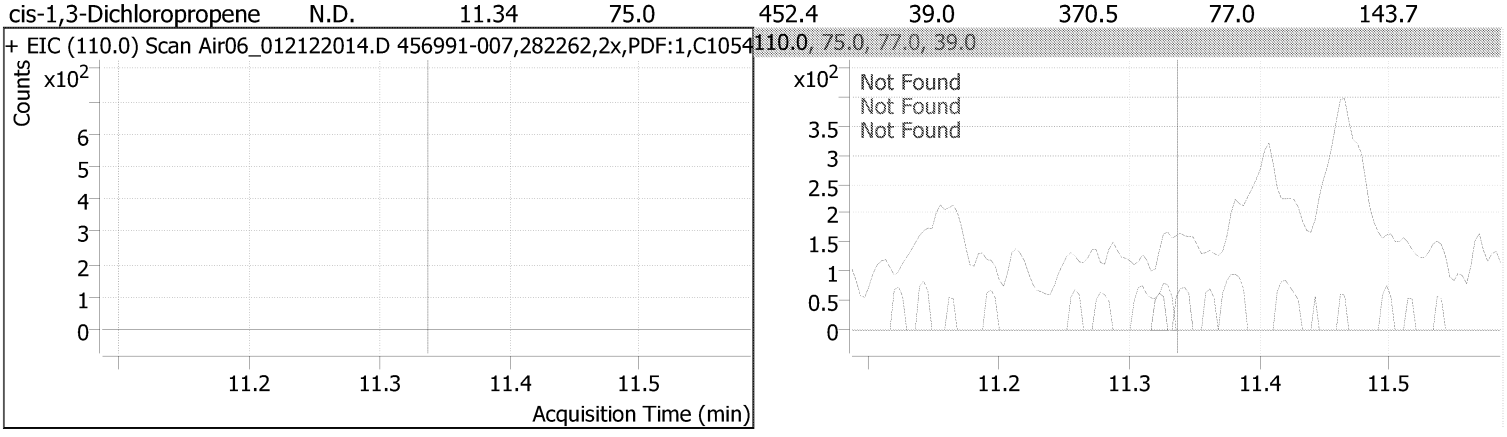
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0004 | 10.72 | 0.01 | 23 | 41.0 | 829.9 | 129.5 | 194.3 |
| | | | | | 100.0 | 90.2 | 28.8 | 43.2 |
| | | | | | 85.0 | | 7.3 | 10.9 |



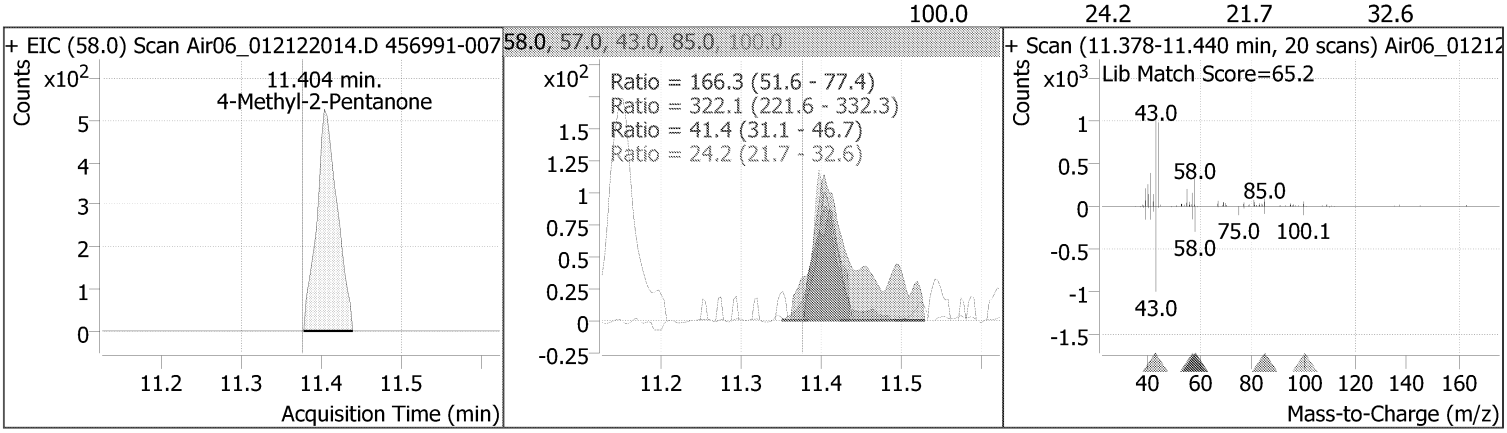

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.0283 | 10.84 | 0.00 | 1474 | 43.0 | 268.8 | 185.0 | 277.6 |
| | | | | | 57.0 | 118.4 | 92.9 | 139.3 |
| | | | | | 56.0 | 81.6 | 56.5 | 84.8 |
| | | | | | 70.0 | 49.5 | 36.5 | 54.8 |
| | | | | | 100.0 | 24.0 | 21.2 | 31.8 |



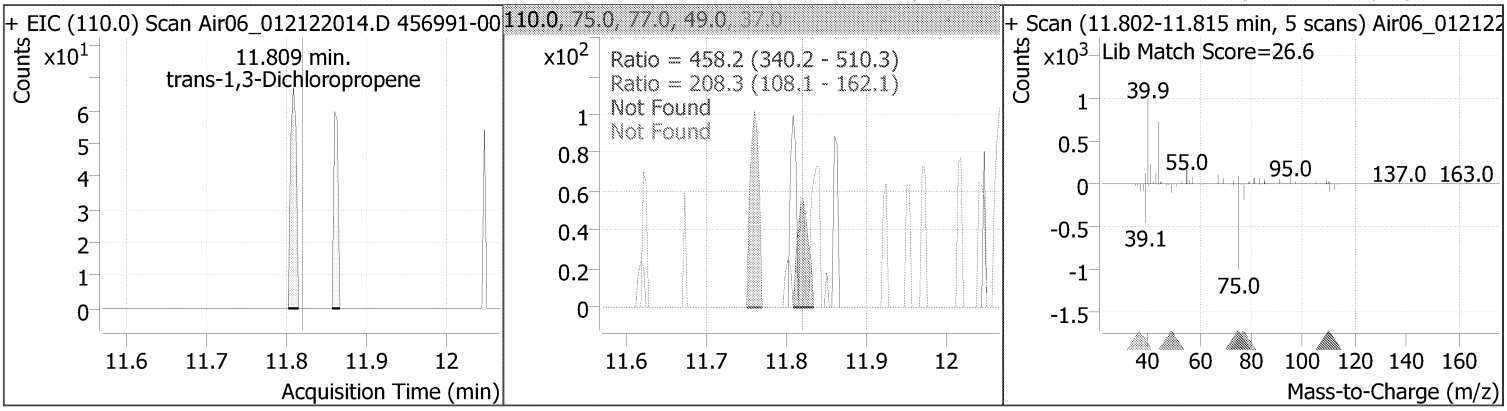

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | N.D. | 11.34 | 75.0 | 452.4 | 39.0 | 370.5 | 77.0 | 143.7 |



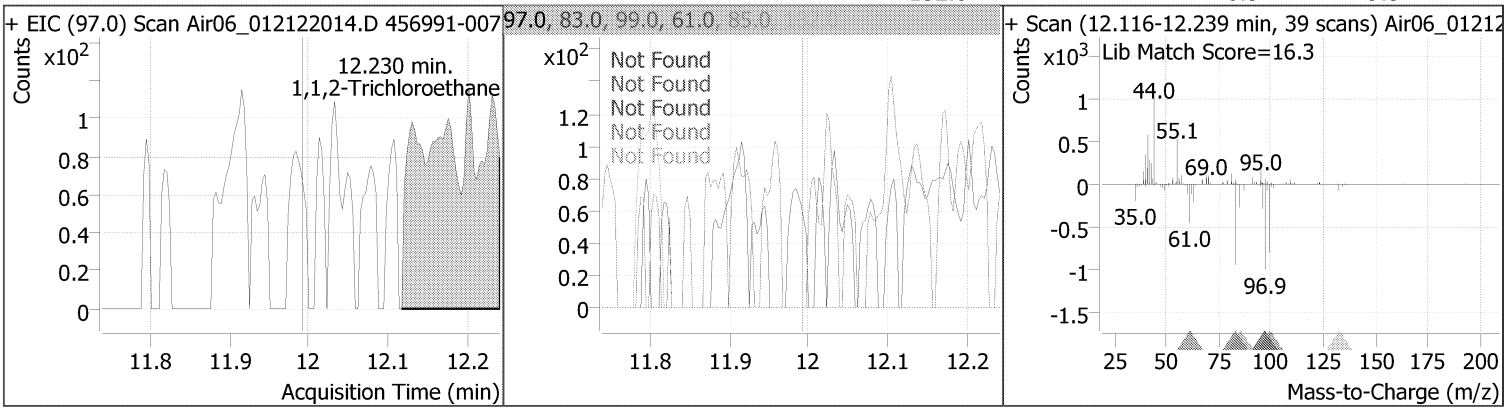
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0163 | 11.40 | 0.03 | 946 | 43.0 | 322.1 | 221.6 | 332.3 |
| | | | | | 57.0 | 166.3 | 51.6 | 77.4 |
| | | | | | 85.0 | 41.4 | 31.1 | 46.7 |
| | | | | | 100.0 | 24.2 | 21.7 | 32.6 |



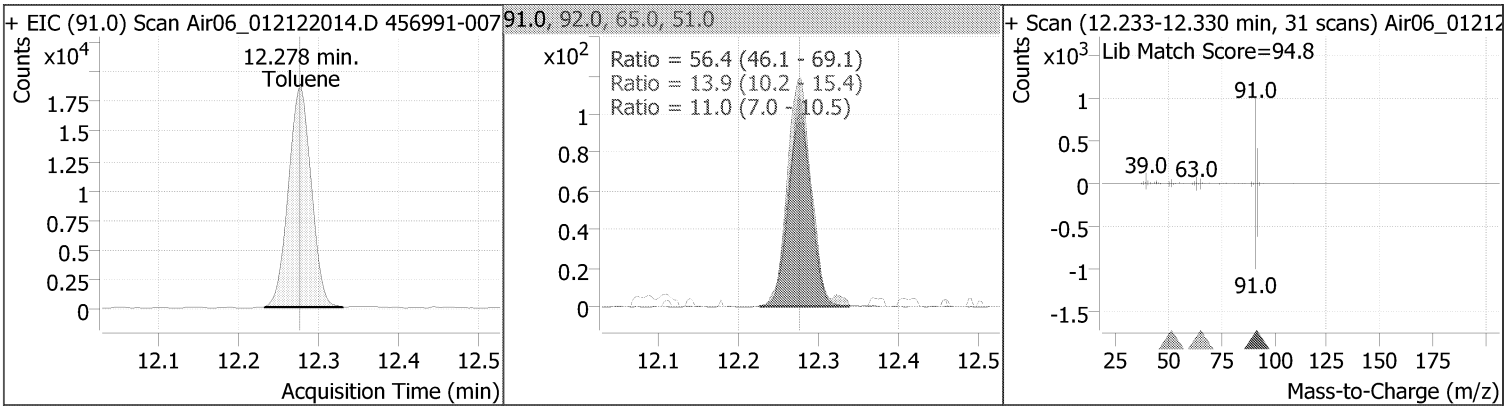

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.0016 | 11.81 | -0.01 | 34 | 75.0 | 458.2 | 340.2 | 510.3 |
| | | | | | 77.0 | 208.3 | 108.1 | 162.1 |
| | | | | | 49.0 | | 88.0 | 132.1 |
| | | | | | 37.0 | | 43.2 | 64.8 |



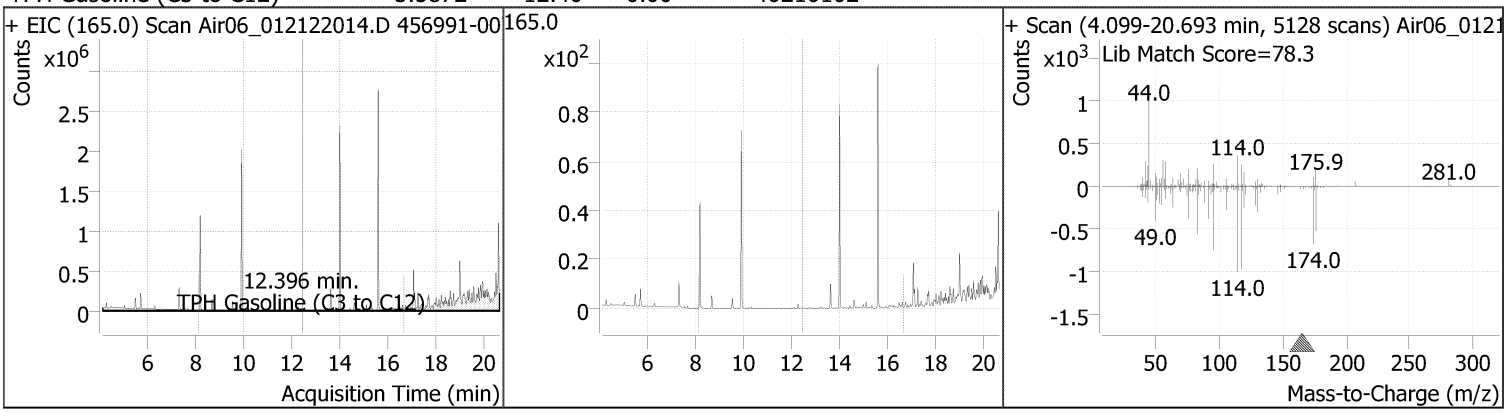

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.0099 | 12.23 | 0.24 | 624 | 83.0 | | 71.7 | 107.5 |
| | | | | | 61.0 | | 56.8 | 85.2 |
| | | | | | 99.0 | | 50.1 | 75.2 |
| | | | | | 85.0 | | 46.0 | 69.0 |
| | | | | | 132.0 | | 6.3 | 9.5 |



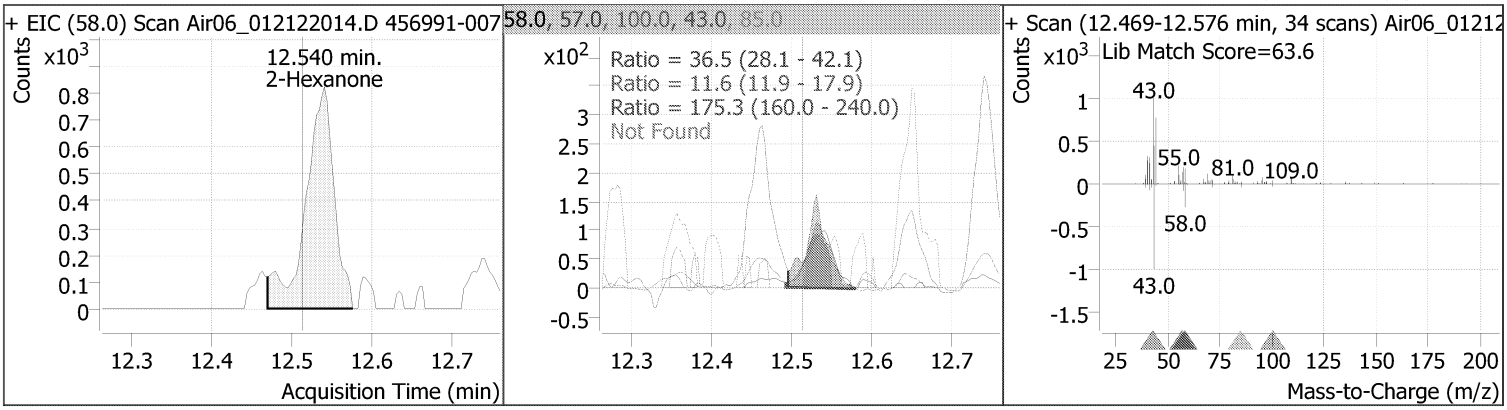
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.1950 | 12.28 | 0.00 | 37378 | 92.0 | 56.4 | 46.1 | 69.1 |
| | | | | | 65.0 | 13.9 | 10.2 | 15.4 |
| | | | | | 51.0 | 11.0 | 7.0 | 10.5 |



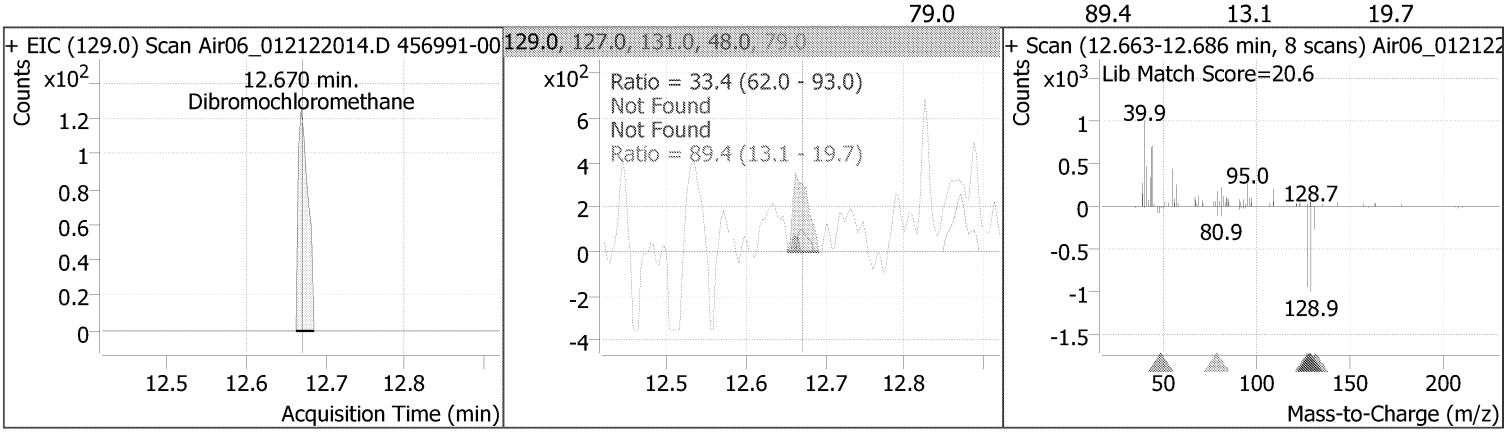

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 3.5872 | 12.40 | 0.00 | 46216102 | | | | |



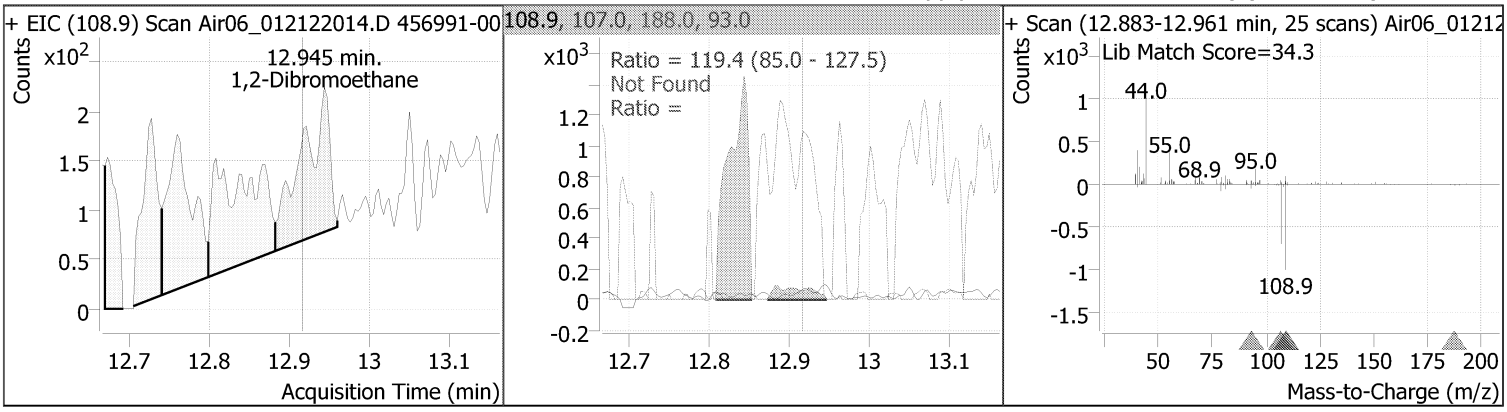

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.0275 | 12.54 | 0.03 | 2055 | 43.0 | 175.3 | 160.0 | 240.0 |
| | | | | | 57.0 | 36.5 | 28.1 | 42.1 |
| | | | | | 100.0 | 11.6 | 11.9 | 17.9 |
| | | | | | 85.0 | | 11.0 | 16.5 |



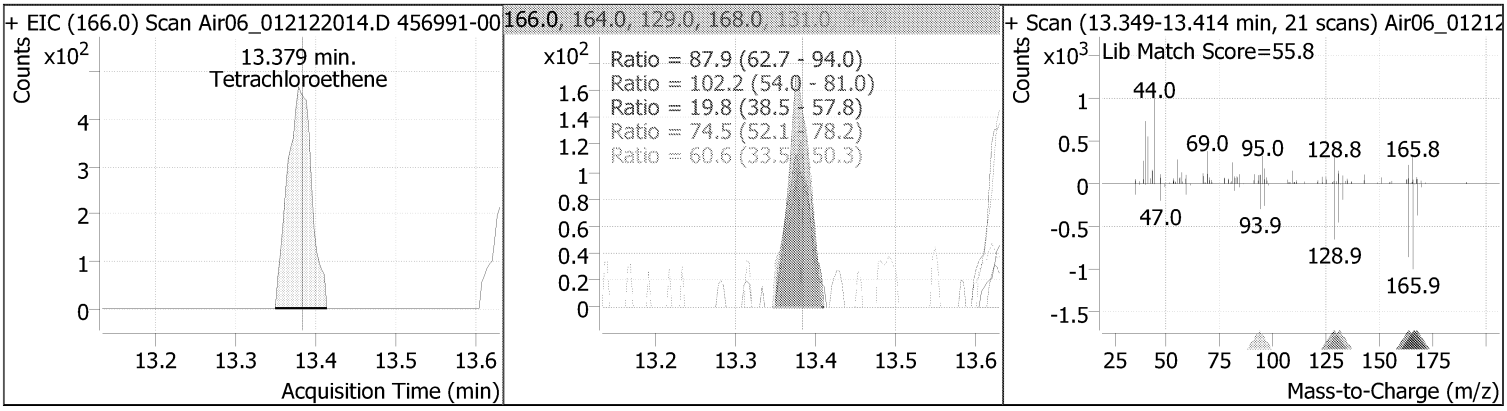
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.0009 | 12.67 | 0.00 | 108 | 127.0 | 33.4 | 62.0 | 93.0 |
| | | | | | 131.0 | | 19.3 | 29.0 |
| | | | | | 48.0 | | 14.0 | 21.0 |
| | | | | | 79.0 | 89.4 | 13.1 | 19.7 |



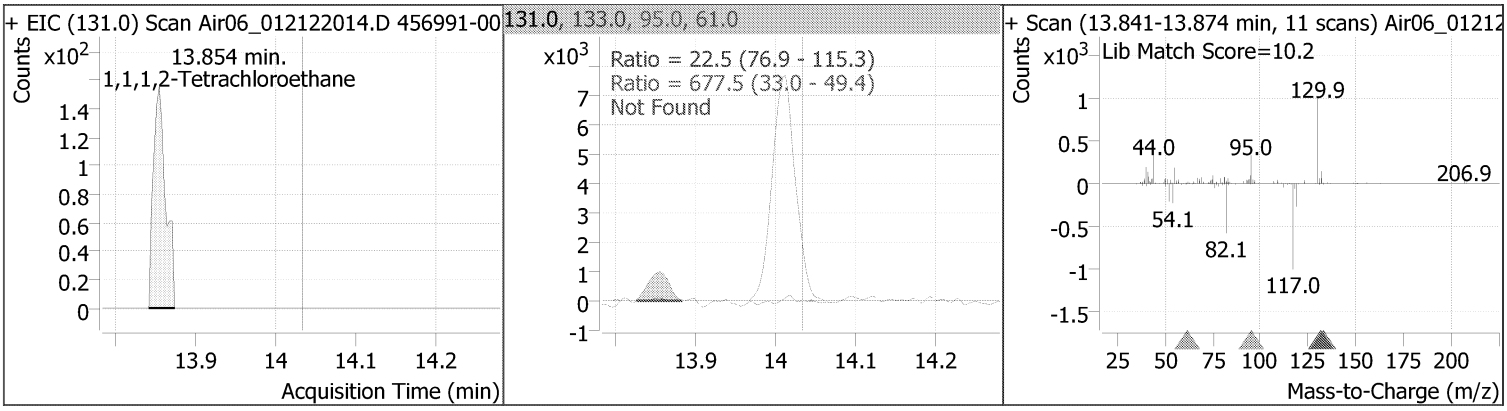

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.0037 | 12.94 | 0.03 | 356 | 107.0 | 119.4 | 85.0 | 127.5 |
| | | | | | 93.0 | | 5.4 | 8.1 |
| | | | | | 188.0 | | 3.5 | 5.2 |



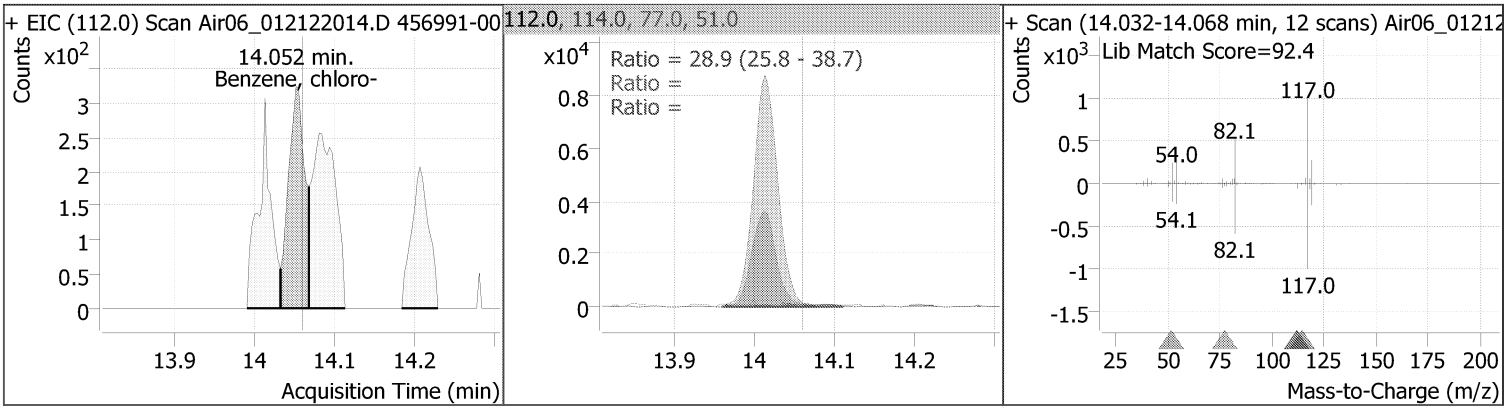

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0099 | 13.38 | 0.00 | 982 | 164.0 | 87.9 | 62.7 | 94.0 |
| | | | | | 129.0 | 102.2 | 54.0 | 81.0 |
| | | | | | 131.0 | 74.5 | 52.1 | 78.2 |
| | | | | | 168.0 | 19.8 | 38.5 | 57.8 |
| | | | | | 94.0 | 60.6 | 33.5 | 50.3 |



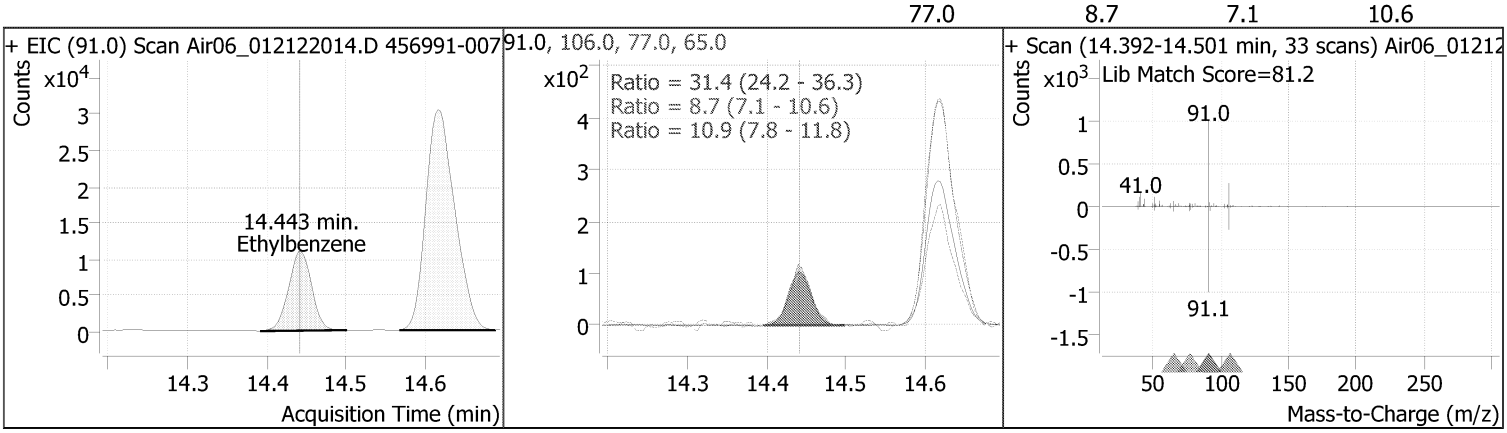
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0025 | 13.85 | -0.18 | 170 | 133.0 | 22.5 | 76.9 | 115.3 |
| | | | | | 95.0 | 677.5 | 33.0 | 49.4 |
| | | | | | 61.0 | | 25.4 | 38.1 |



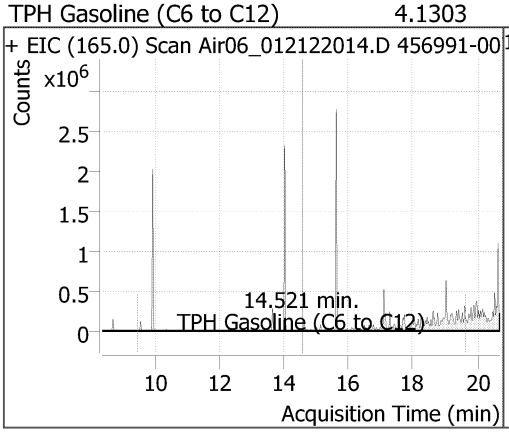

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0033 | 14.05 | -0.01 | 455 | 77.0 | | 50.5 | 75.7 |
| | | | | | 114.0 | 28.9 | 25.8 | 38.7 |
| | | | | | 51.0 | | 23.4 | 35.1 |

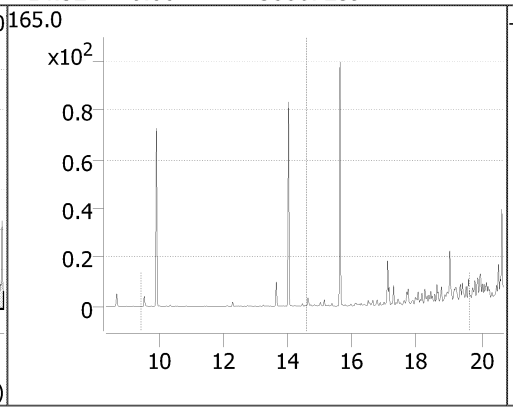


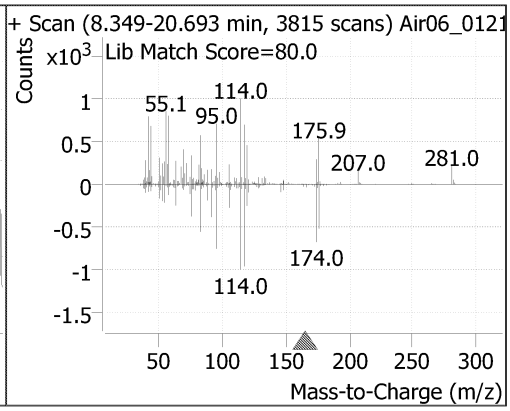

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.1016 | 14.44 | 0.00 | 22116 | 106.0 | 31.4 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.9 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.7 | 7.1 | 10.6 |



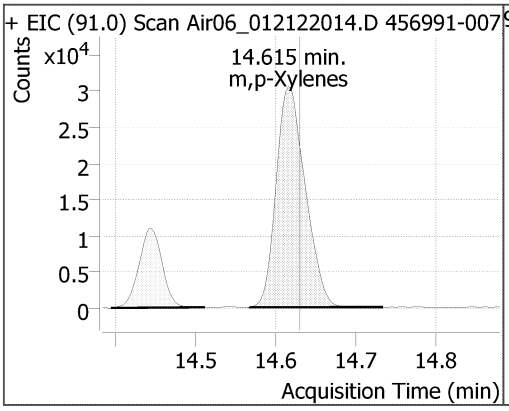
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 4.1303 | 14.52 | 0.00 | 38867239 | | | | |

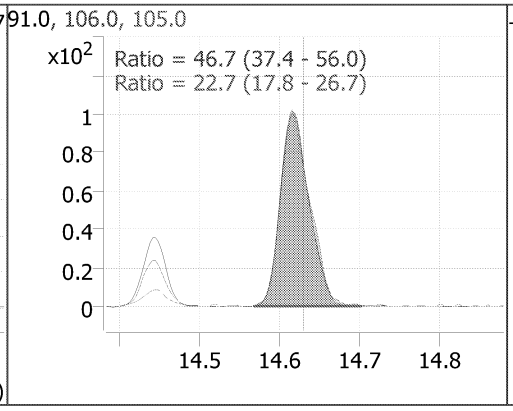


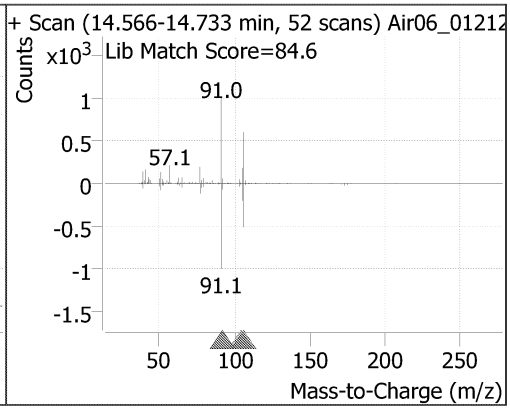



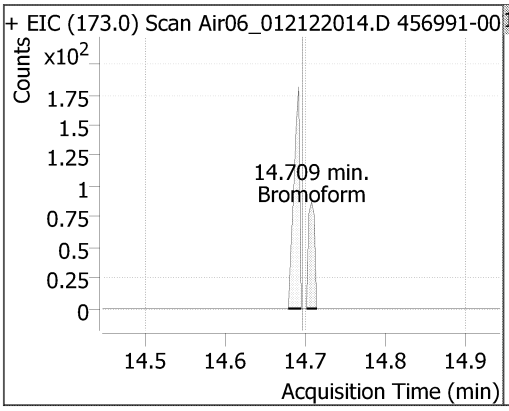

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.4430 | 14.61 | -0.02 | 77521 | 106.0 | 46.7 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.7 | 17.8 | 26.7 |

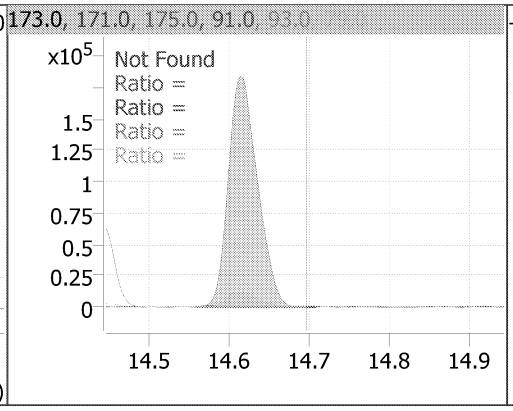


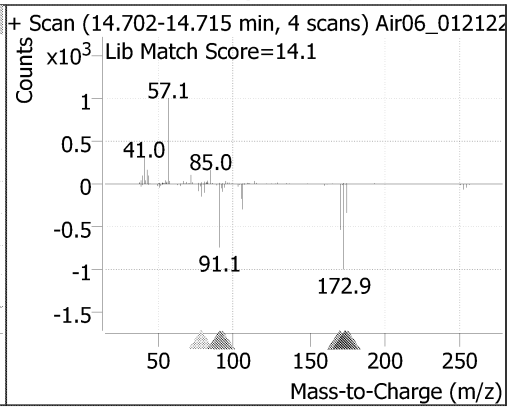



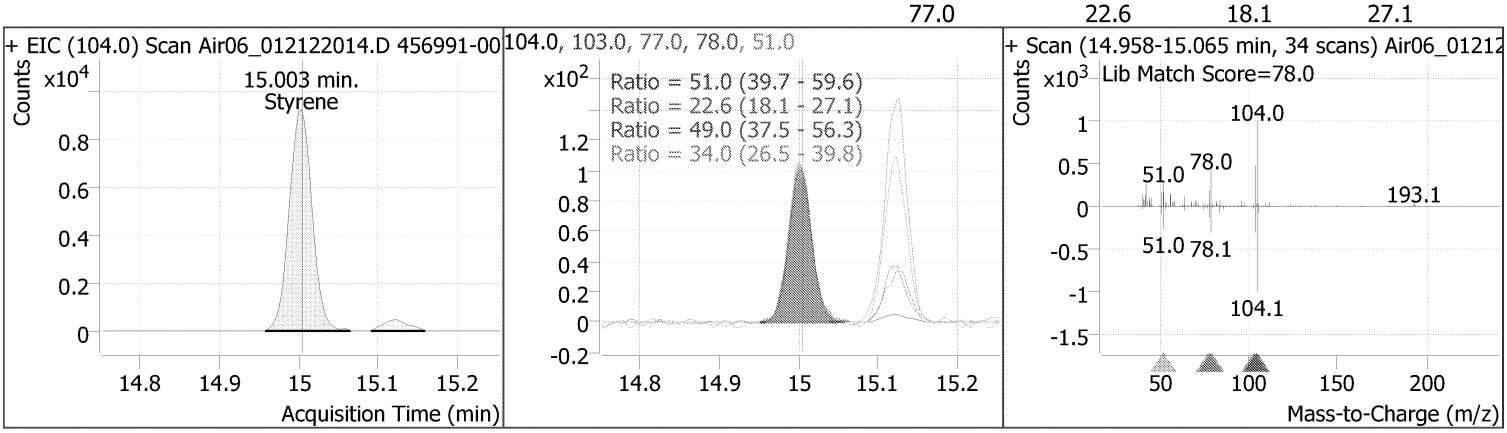

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.0004 | 14.71 | 0.01 | 47 | 171.0 | | 41.0 | 61.5 |
| | | | | | 175.0 | | 39.2 | 58.9 |
| | | | | | 93.0 | | 15.4 | 23.1 |
| | | | | | 91.0 | | 15.2 | 22.8 |
| | | | | | 79.0 | | 15.1 | 22.6 |



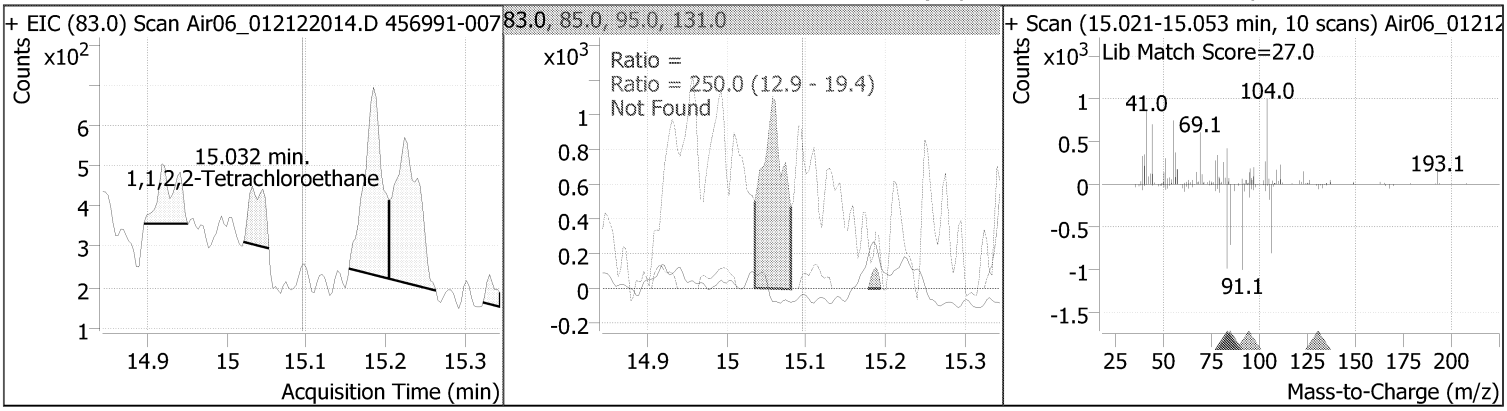



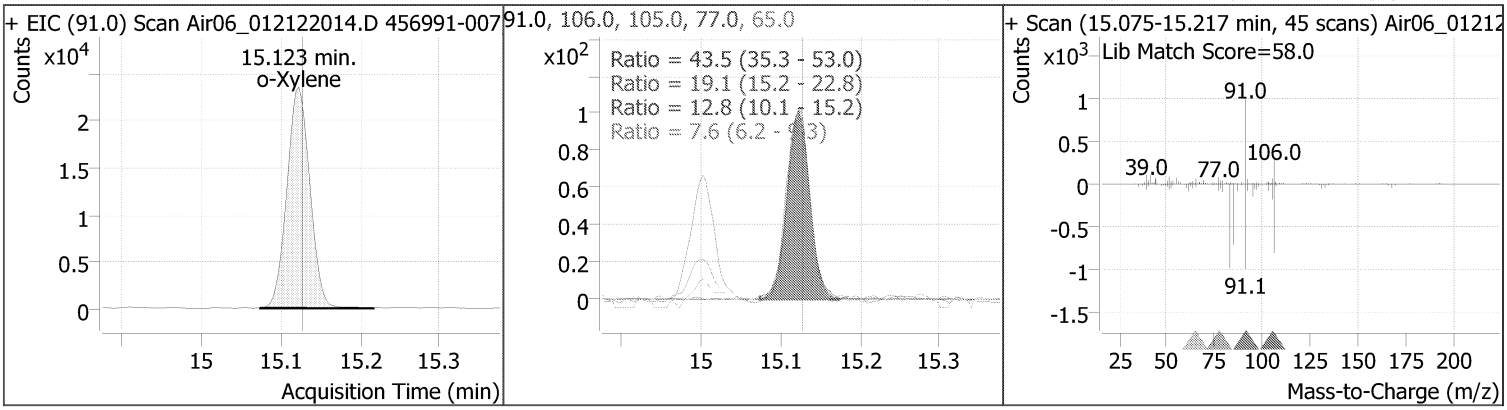
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.1330 | 15.00 | 0.00 | 18445 | 103.0 | 51.0 | 39.7 | 59.6 |
| | | | | | 78.0 | 49.0 | 37.5 | 56.3 |
| | | | | | 51.0 | 34.0 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.6 | 18.1 | 27.1 |



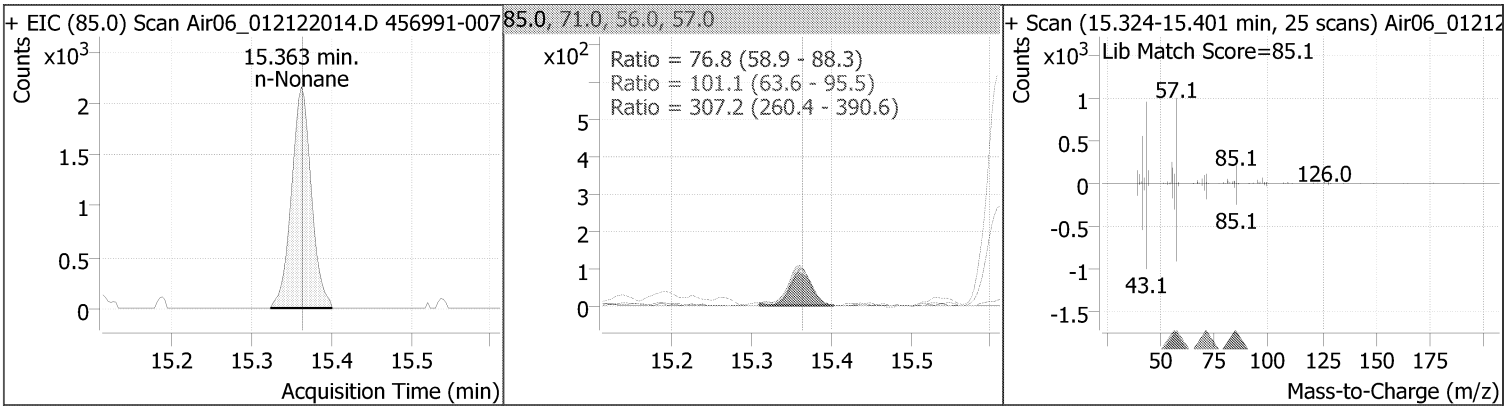

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.0015 | 15.03 | -0.06 | 192 | 85.0 | | 51.6 | 77.5 |
| | | | | | 95.0 | 250.0 | 12.9 | 19.4 |
| | | | | | 131.0 | | 7.8 | 11.7 |



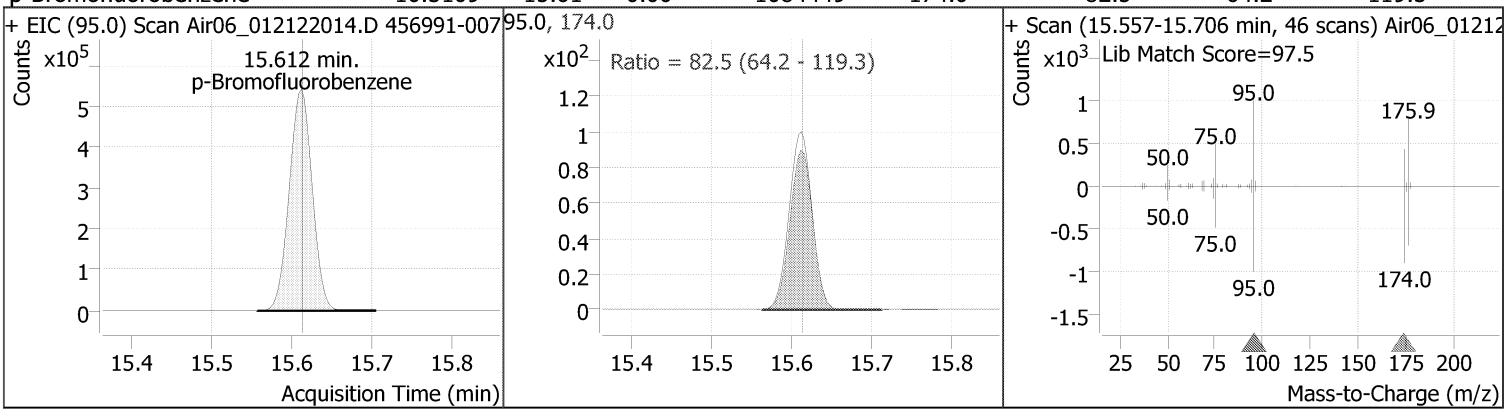

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.2617 | 15.12 | -0.01 | 47078 | 106.0 | 43.5 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.1 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.8 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.6 | 6.2 | 9.3 |



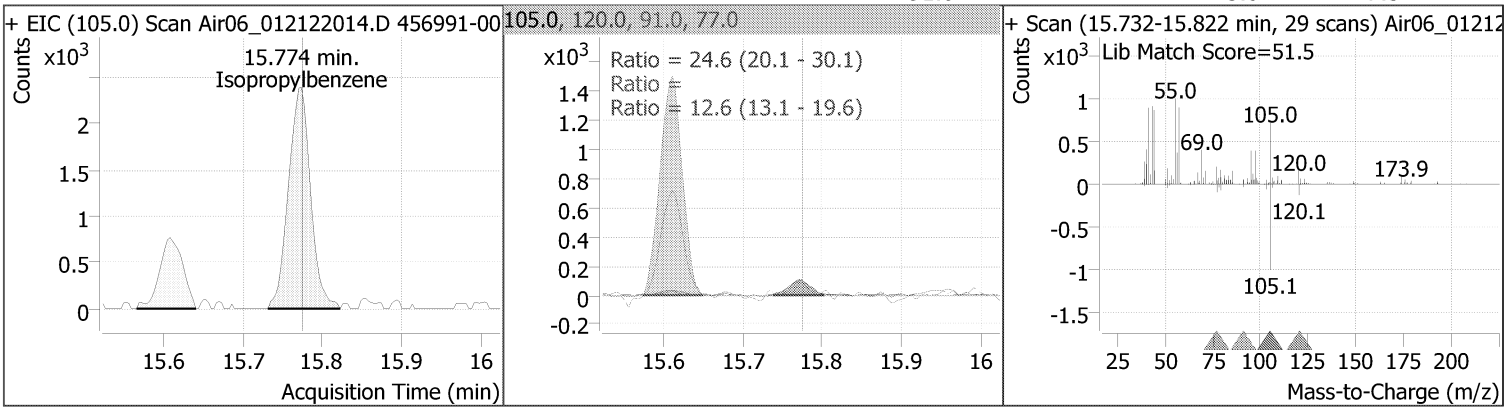
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.0902 | 15.36 | 0.00 | 3750 | 57.0 | 307.2 | 260.4 | 390.6 |
| | | | | | 56.0 | 101.1 | 63.6 | 95.5 |
| | | | | | 71.0 | 76.8 | 58.9 | 88.3 |



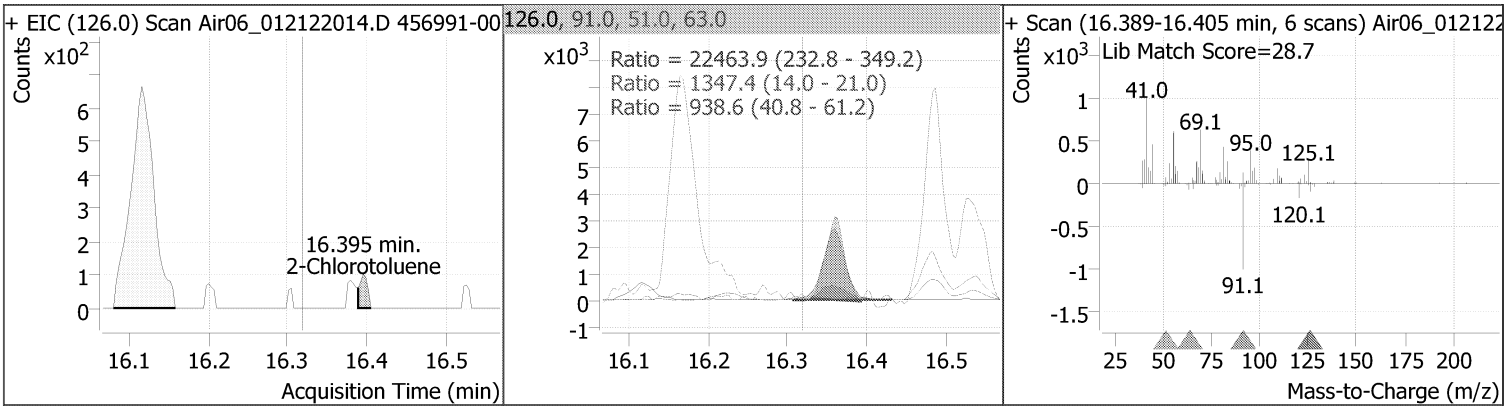

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.3109 | 15.61 | 0.00 | 1084449 | 174.0 | 82.5 | 64.2 | 119.3 |



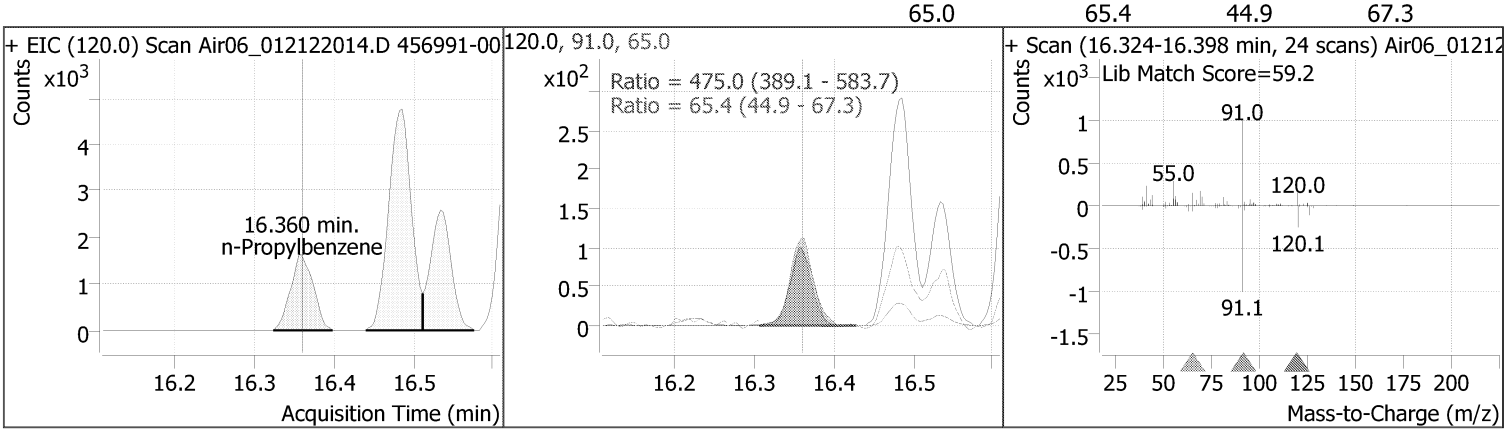

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0188 | 15.77 | 0.00 | 4639 | 120.0 | 24.6 | 20.1 | 30.1 |
| | | | | | 77.0 | 12.6 | 13.1 | 19.6 |
| | | | | | 91.0 | | 5.0 | 7.5 |



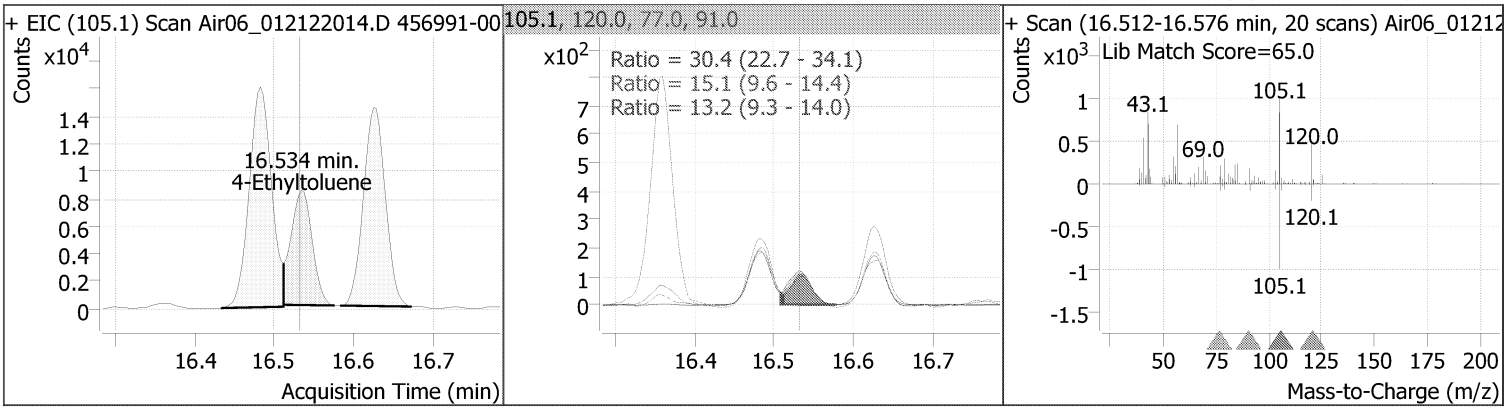
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.0011 | 16.40 | 0.07 | 69 | 91.0 | 22463.9 | 232.8 | 349.2 |
| | | | | | 63.0 | 938.6 | 40.8 | 61.2 |
| | | | | | 51.0 | 1347.4 | 14.0 | 21.0 |



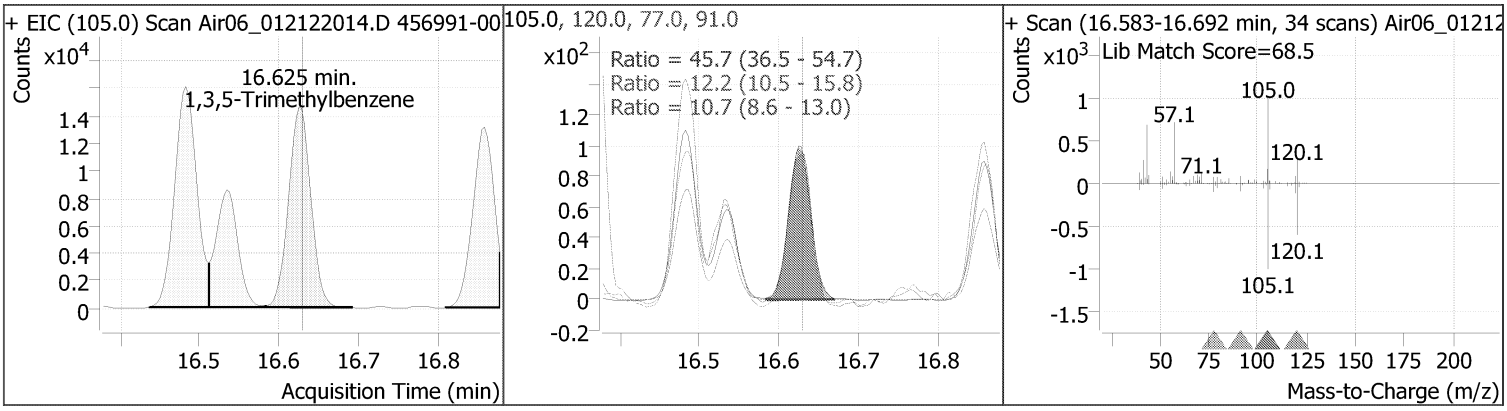

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0470 | 16.36 | 0.00 | 3239 | 91.0 | 475.0 | 389.1 | 583.7 |
| | | | | | 65.0 | 65.4 | 44.9 | 67.3 |



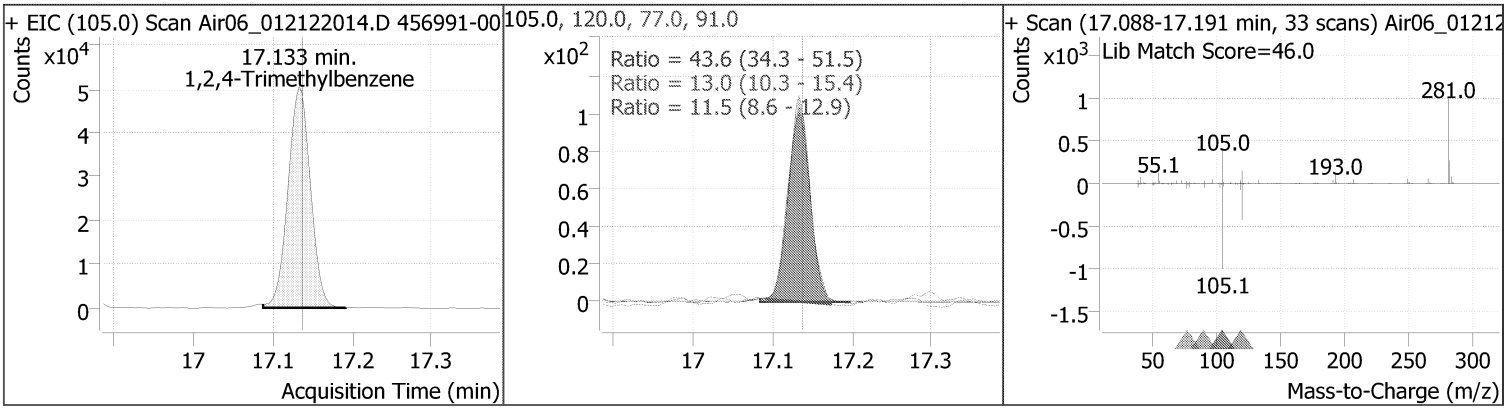

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0638 | 16.53 | 0.00 | 15580 | 120.0 | 30.4 | 22.7 | 34.1 |
| | | | | | 77.0 | 15.1 | 9.6 | 14.4 |
| | | | | | 91.0 | 13.2 | 9.3 | 14.0 |



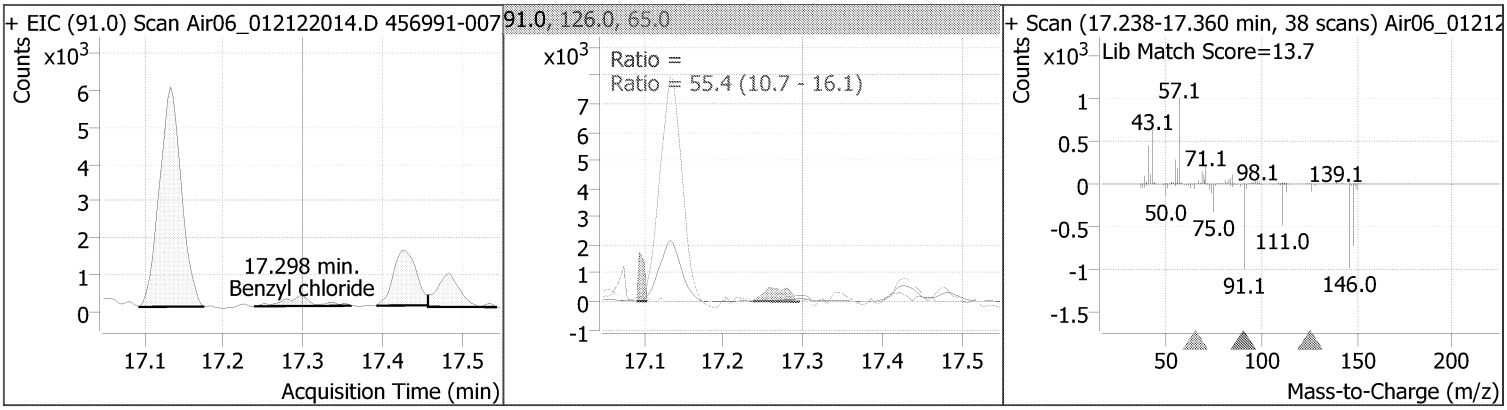
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.1341 | 16.62 | -0.01 | 28344 | 120.0 | 45.7 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.2 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.7 | 8.6 | 13.0 |



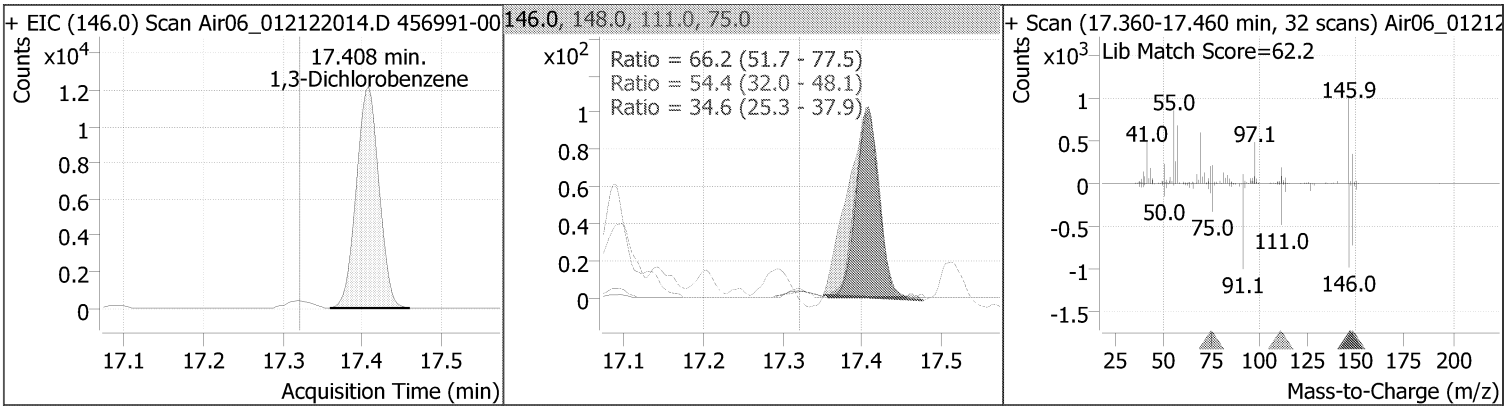

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.4701 | 17.13 | -0.01 | 98644 | 120.0 | 43.6 | 34.3 | 51.5 |
| | | | | | 77.0 | 13.0 | 10.3 | 15.4 |
| | | | | | 91.0 | 11.5 | 8.6 | 12.9 |



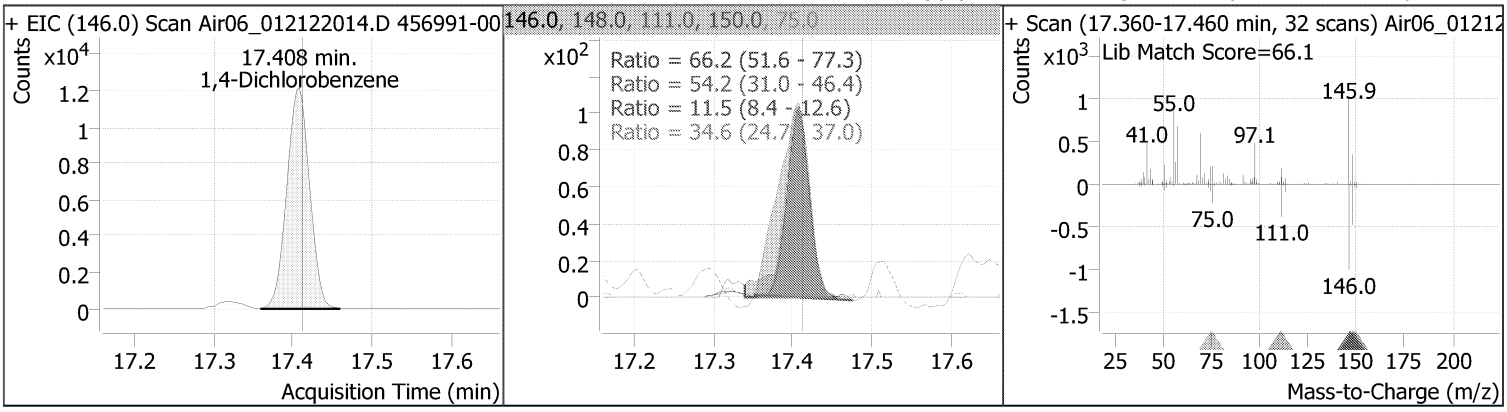

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0040 | 17.30 | 0.00 | 729 | 126.0 | | 15.5 | 23.2 |
| | | | | | 65.0 | 55.4 | 10.7 | 16.1 |



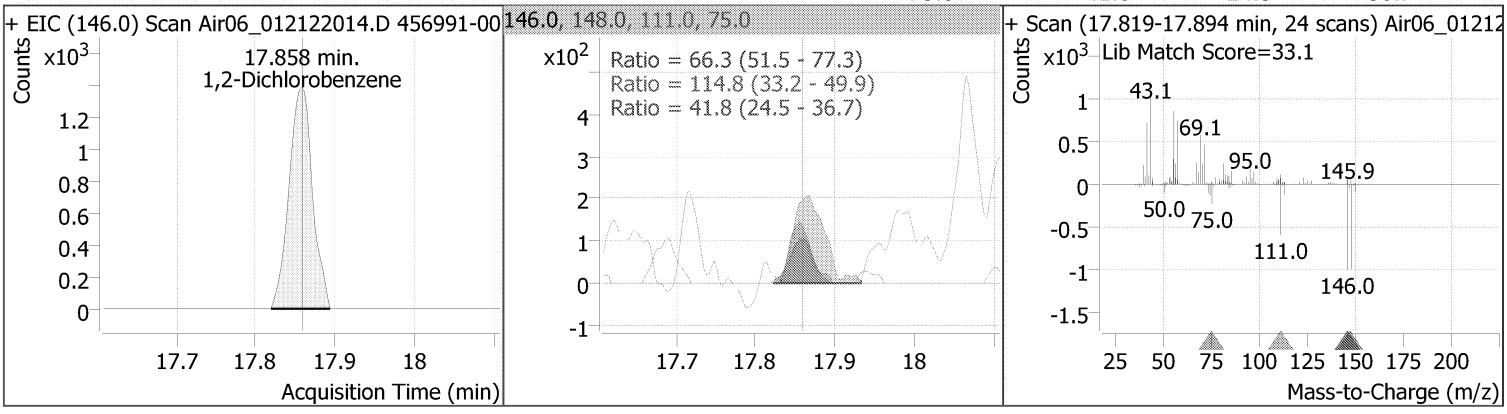
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.1684 | 17.41 | 0.08 | 24236 | 148.0 | 66.2 | 51.7 | 77.5 |
| | | | | | 111.0 | 54.4 | 32.0 | 48.1 |
| | | | | | 75.0 | 34.6 | 25.3 | 37.9 |



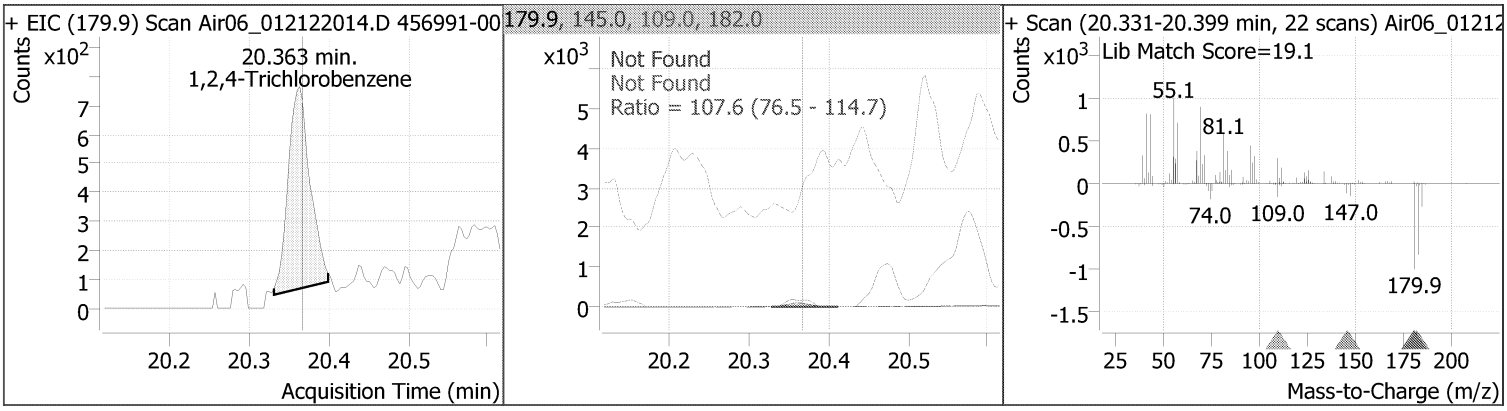

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.1665 | 17.41 | -0.01 | 24236 | 148.0 | 66.2 | 51.6 | 77.3 |
| | | | | | 111.0 | 54.2 | 31.0 | 46.4 |
| | | | | | 75.0 | 34.6 | 24.7 | 37.0 |
| | | | | | 150.0 | 11.5 | 8.4 | 12.6 |



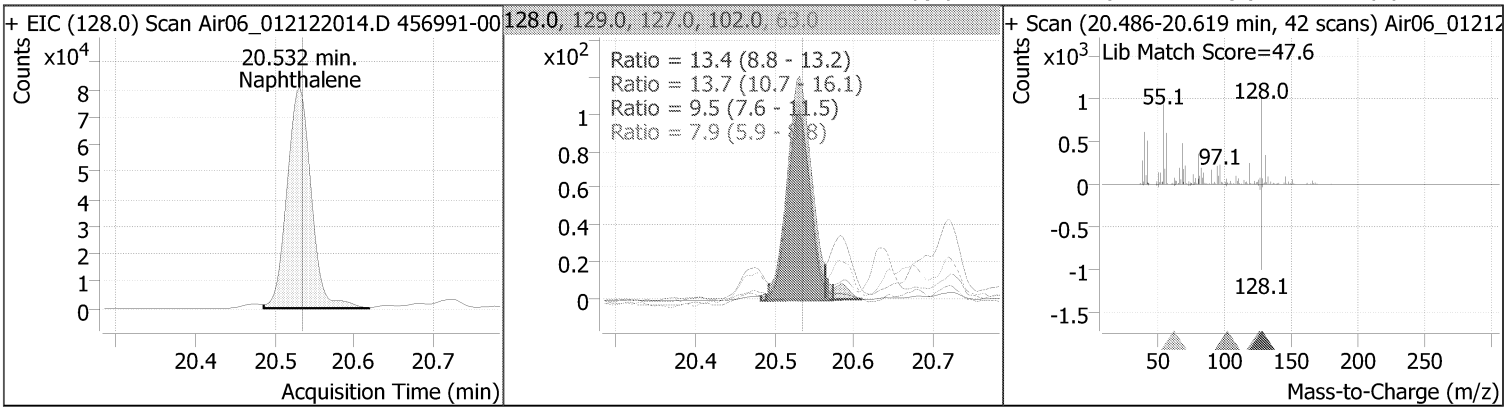

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.0202 | 17.86 | 0.00 | 2836 | 148.0 | 66.3 | 51.5 | 77.3 |
| | | | | | 111.0 | 114.8 | 33.2 | 49.9 |
| | | | | | 75.0 | 41.8 | 24.5 | 36.7 |



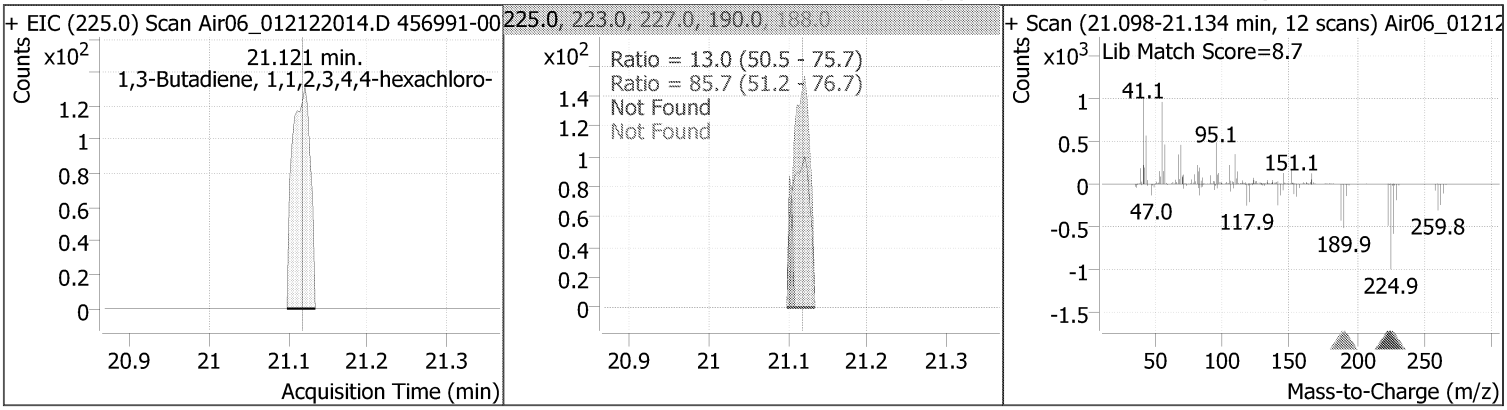
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0116 | 20.36 | -0.01 | 1338 | 182.0 | 107.6 | 76.5 | 114.7 |
| | | | | | 145.0 | | 22.2 | 33.3 |
| | | | | | 109.0 | | 18.1 | 27.2 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.7129 | 20.53 | -0.01 | 170694 | 127.0 | 13.7 | 10.7 | 16.1 |
| | | | | | 129.0 | 13.4 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.5 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.9 | 5.9 | 8.8 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0016 | 21.12 | 0.00 | 204 | 227.0 | 85.7 | 51.2 | 76.7 |
| | | | | | 223.0 | 13.0 | 50.5 | 75.7 |
| | | | | | 190.0 | | 34.9 | 52.3 |
| | | | | | 188.0 | | 27.5 | 41.2 |



# Library Search Results - NonTarget Hits with Details

Agilent Technologies

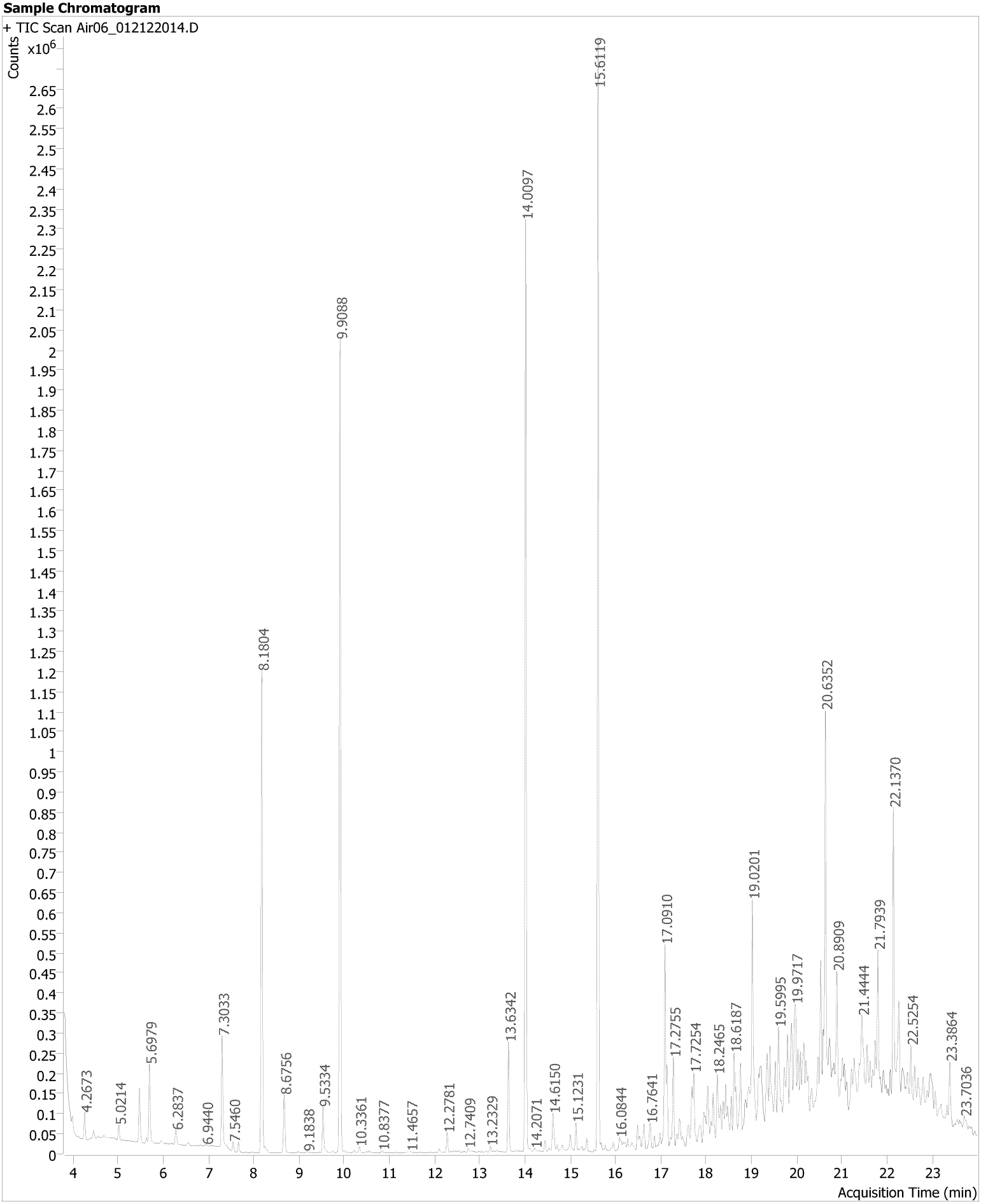
| | | | |
|---|---|---|---|
| **Batch Path** | D:\MassHunter\GCMS\1\data\2022\220121 | | |
| **Analysis File Name** | $2022 Jan 22 0714 TO15_220105.m$.uaf | | |
| **Analyst Name** | 003AIRMS06 | **Analysis Time** | 1/26/2022 11:30:36 AM |
| **File Name** | Air06_012122014.D | **Path Name** | D:\MassHunter\GCMS\1\data\2022\220121 |
| **Sample Name** | 456991-007,282262,2x,PDF:1,C10549 | **Type** | Sample |
| **Acq. Method File** | TO15_Acq_013120_1 | **Acq. Method Path** | D:\MassHunter\GCMS\1\methods\ |
| **Acq. Date-Time** | 1/21/2022 9:36:34 PM | **Acq. Operator** | DJL/LJB/ZNZ |
| **Instrument Name** | Air-MS-06 | **Dil.** | 1 |

| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9954 | Dichlorodifluoromethane | 75-71-8 | CCl2F2 | 184803.4 | 98.3 | 0.7267 |
| 4.2673 | Glycidol | 556-52-5 | C3H6O2 | 123062.9 | 88.0 | 0.4839 |
| 4.4647 | 1-Propene, 2-methyl- | 115-11-7 | C4H8 | 46858.0 | 97.9 | 0.1843 |
| 4.5586 | Butane | 106-97-8 | C4H10 | 12680.2 | 87.7 | 0.04986 |
| 4.6913 | Trimethylsilyl fluoride | 420-56-4 | C3H9FSi | 24661.7 | 87.4 | 0.09698 |
| 5.0214 | Dimethyl ether | 115-10-6 | C2H6O | 73394.7 | 87.8 | 0.2886 |
| 5.4778 | Acetone | 67-64-1 | C3H6O | 282182.9 | 98.7 | 1.11 |
| 5.6299 | Trichloromonofluoromethane | 75-69-4 | CCl3F | 21924.6 | 94.8 | 0.08622 |
| 5.6979 | Isopropyl Alcohol | 67-63-0 | C3H8O | 425830.8 | 98.3 | 1.675 |
| 5.9601 | Pentane | 109-66-0 | C5H12 | 16052.4 | 89.6 | 0.06312 |
| 6.2837 | 2-Propanol, 2-methyl- | 75-65-0 | C4H10O | 93863.8 | 71.7 | 0.3691 |
| 6.5491 | Ethane, 1,1,2-trichloro-1,2,2-trifluoro- | 76-13-1 | C2Cl3F3 | 17943.6 | 91.3 | 0.07056 |
| 6.9440 | 1-Propanol | 71-23-8 | C3H8O | 8747.8 | 88.0 | 0.0344 |
| 7.3033 | Silanol, trimethyl- | 1066-40-6 | C3H10OSi | 619230.0 | 98.8 | 2.435 |
| 7.5460 | Butanal | 123-72-8 | C4H8O | 43407.2 | 97.1 | 0.1707 |
| 7.6658 | 2-Butanone | 78-93-3 | C4H8O | 38365.2 | 97.2 | 0.1509 |
| 8.1804 | Methane, bromochloro- | 74-97-5 | CH2BrCl | 2542971.5 | 98.7 | 10 |
| 8.2484 | n-Hexane | 110-54-3 | C6H14 | 33131.5 | 83.7 | 0.1303 |
| 8.2937 | Methane, oxybis[dichloro- | 20524-86-1 | C2H2Cl4O | 16112.5 | 87.6 | 0.06336 |
| 8.6756 | Tetrahydrofuran | 109-99-9 | C4H8O | 336558.2 | 99.4 | 1.323 |
| 9.1838 | Pentanal | 110-62-3 | C5H10O | 7177.1 | 87.6 | 0.01735 |
| 9.5334 | 1-Butanol | 71-36-3 | C4H10O | 248121.7 | 98.4 | 0.5999 |
| 9.6046 | Benzene | 71-43-2 | C6H6 | 12981.0 | 71.3 | 0.03138 |
| 9.7437 | Carbon Tetrachloride | 56-23-5 | CCl4 | 11357.5 | 89.8 | 0.02746 |
| 9.9088 | Benzene, 1,4-difluoro- | 540-36-3 | C6H4F2 | 4136348.5 | 99.4 | 10 |
| 10.0092 | 2-Pentanone | 107-87-9 | C5H10O | 21424.6 | 80.6 | 0.0518 |
| 10.2131 | Pentanal | 110-62-3 | C5H10O | 15946.5 | 89.3 | 0.03855 |
| 10.3361 | Benzene, 1,4-difluoro- | 540-36-3 | C6H4F2 | 35499.7 | 96.7 | 0.08582 |
| 10.4979 | Disiloxane, hexamethyl- | 107-46-0 | C6H18OSi2 | 6571.7 | 82.8 | 0.01589 |
| 10.5562 | Trichloroethylene | 79-01-6 | C2HCl3 | 14185.5 | 85.8 | 0.03429 |
| 10.8377 | Heptane | 142-82-5 | C7H16 | 14369.0 | 87.7 | 0.03474 |
| 11.4074 | Methyl Isobutyl Ketone | 108-10-1 | C6H12O | 8549.0 | 83.5 | 0.02067 |
| 11.4657 | Cyclohexane, methyl- | 108-87-2 | C7H14 | 10575.9 | 91.1 | 0.02557 |
| 12.1033 | 1-Pentanol | 71-41-0 | C5H12O | 20907.3 | 89.3 | 0.04383 |
| 12.2781 | Toluene | 108-88-3 | C7H8 | 97607.3 | 98.1 | 0.2046 |
| 12.7409 | Hexanal | 66-25-1 | C6H12O | 21013.6 | 90.7 | 0.04405 |
| 12.8283 | Cyclohexane, 1,3-dimethyl-, trans- | 2207-03-6 | C8H16 | 8032.4 | 74.0 | 0.01684 |
| 13.1326 | Acetic acid, butyl ester | 123-86-4 | C6H12O2 | 7219.1 | 79.1 | 0.01513 |
| 13.2329 | Octane | 111-65-9 | C8H18 | 28642.1 | 89.9 | 0.06004 |
| 13.3785 | Tetrachloroethylene | 127-18-4 | C2Cl4 | 5776.5 | 78.9 | 0.01211 |
| 13.6342 | Cyclotrisiloxane, hexamethyl- | 541-05-9 | C6H18O3Si3 | 560827.4 | 98.2 | 1.176 |
| 13.7799 | Hexane, 2,3,4-trimethyl- | 921-47-1 | C9H20 | 5009.8 | 73.7 | 0.0105 |
| 13.8576 | Benzene, 1-chloro-3-fluoro- | 625-98-9 | C6H4ClF | 6194.4 | 85.8 | 0.01298 |
| 14.0097 | Chlorobenzene-d5 | 3114-55-4 | C6D5Cl | 4770579.8 | 95.8 | 10 |
| 14.2071 | Cyclohexane, 1,1,3-trimethyl- | 3073-66-3 | C9H18 | 18083.3 | 85.0 | 0.03791 |
| 14.4402 | Ethylbenzene | 100-41-4 | C8H10 | 53811.1 | 93.4 | 0.1128 |
| 14.5308 | Cyclohexane, 1,2,4-trimethyl- | 2234-75-5 | C9H18 | 13270.0 | 79.1 | 0.02782 |
| 14.6150 | o-Xylene | 95-47-6 | C8H10 | 247336.9 | 98.8 | 0.5185 |
| 14.7056 | 3-Heptanone | 106-35-4 | C7H14O | 25705.3 | 83.8 | 0.05388 |
| 14.8221 | 1-Heptene | 592-76-7 | C7H14 | 32138.1 | 80.2 | 0.06737 |
| 15.0001 | Bicyclo[4.2.0]octa-1,3,5-triene | 694-87-1 | C8H8 | 88900.9 | 92.9 | 0.1864 |
| 15.1231 | o-Xylene | 95-47-6 | C8H10 | 129261.4 | 96.8 | 0.271 |
| 15.2558 | 4-Octen-3-one | 14129-48-7 | C8H14O | 10493.8 | 76.9 | 0.022 |
| 15.3626 | Nonane | 111-84-2 | C9H20 | 47805.8 | 95.5 | 0.1002 |
| 15.6119 | Benzene, 1-bromo-3-fluoro- | 1073-06-9 | C6H4BrF | 5547055.4 | 98.2 | 11.63 |
| 15.7705 | Hydratropic acid, isohexyl ester | 1000415-06-2 | C15H22O2 | 18872.6 | 71.3 | 0.03956 |
| 15.8999 | Heptane, 2,3,4-trimethyl- | 52896-95-4 | C10H22 | 14211.0 | 81.0 | 0.02979 |
| 15.9485 | Cyclohexane, 1-propenyl- | 5364-83-0 | C9H16 | 44056.4 | 88.7 | 0.09235 |
| 16.0844 | Nonane, 3-methyl- | 5911-04-6 | C10H22 | 40795.8 | 88.5 | 0.08552 |

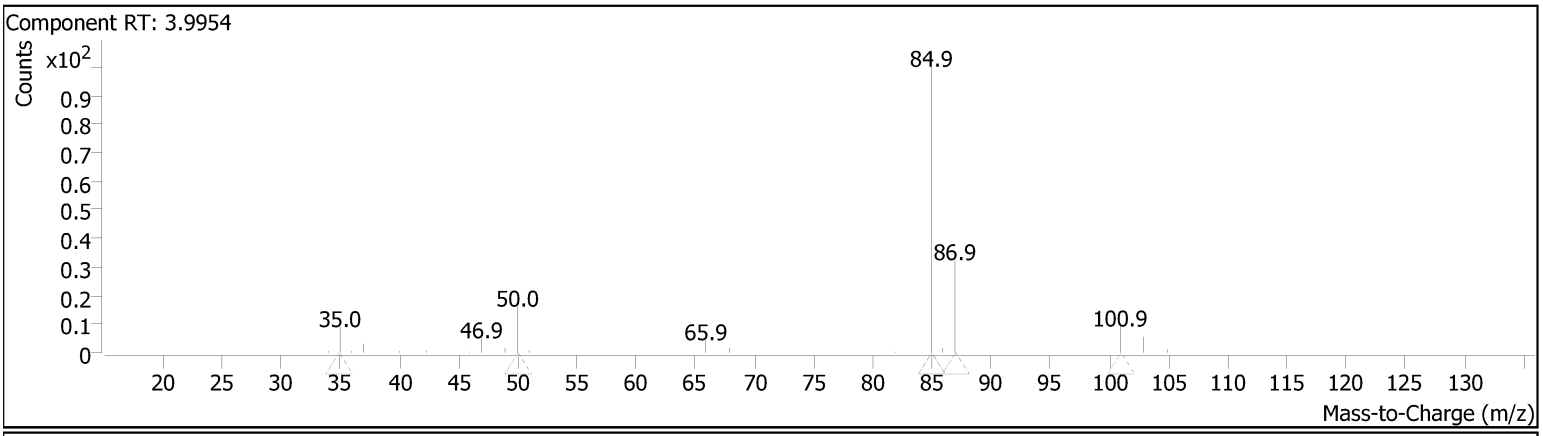
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1135 | Cyclohexane, propyl- | 1678-92-8 | C9H18 | 29156.7 | 70.7 | 0.06112 |
| 16.1653 | Benzaldehyde | 100-52-7 | C7H6O | 19252.6 | 82.0 | 0.04036 |
| 16.2139 | Linalyl acetate | 115-95-7 | C12H20O2 | 21228.8 | 72.0 | 0.0445 |
| 16.2689 | Heptane, 3-ethyl-2-methyl- | 14676-29-0 | C10H22 | 39545.5 | 93.9 | 0.08289 |
| 16.3595 | Benzene, propyl- | 103-65-1 | C9H12 | 42809.0 | 91.9 | 0.08974 |
| 16.4858 | Benzene, 1-ethyl-2-methyl- | 611-14-3 | C9H12 | 88523.2 | 85.6 | 0.1856 |
| 16.5311 | Benzene, 1-ethyl-2-methyl- | 611-14-3 | C9H12 | 39778.4 | 86.4 | 0.08338 |
| 16.6282 | Benzene, 1,2,3-trimethyl- | 526-73-8 | C9H12 | 110326.2 | 91.8 | 0.2313 |
| 16.7641 | Cyclohexane, 1,1,2,3-tetramethyl- | 6783-92-2 | C10H20 | 116330.8 | 89.7 | 0.2439 |
| 16.8580 | Benzene, 1-ethyl-2-methyl- | 611-14-3 | C9H12 | 37543.3 | 93.9 | 0.0787 |
| 16.9810 | 3-Decyn-2-ol | 69668-93-5 | C10H18O | 40428.2 | 86.7 | 0.08474 |
| 17.0910 | Cyclotetrasiloxane, octamethyl- | 556-67-2 | C8H24O4Si4 | 1032667.8 | 95.2 | 2.165 |
| 17.1331 | Benzene, 1,2,3-trimethyl- | 526-73-8 | C9H12 | 368711.4 | 85.9 | 0.7729 |
| 17.2140 | Cyclohexane, 1-methyl-4-(1-methylethyl)-, cis- | 6069-98-3 | C10H20 | 18621.5 | 85.7 | 0.03903 |
| 17.2755 | Decane | 124-18-5 | C10H22 | 395594.7 | 96.3 | 0.8292 |
| 17.3532 | Heptane, 2,2,4,6,6-pentamethyl- | 13475-82-6 | C12H26 | 32365.1 | 83.8 | 0.06784 |
| 17.4147 | Benzene, 1,3-dichloro- | 541-73-1 | C6H4Cl2 | 146665.0 | 84.8 | 0.3074 |
| 17.4794 | Benzene, (1-methylpropyl)- | 135-98-8 | C10H14 | 18696.6 | 77.8 | 0.03919 |
| 17.6089 | Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | C10H14 | 101897.7 | 79.4 | 0.2136 |
| 17.6833 | Mesitylene | 108-67-8 | C9H12 | 278202.7 | 89.5 | 0.5832 |
| 17.7254 | Nonane, 2,6-dimethyl- | 17302-28-2 | C11H24 | 371100.0 | 96.5 | 0.7779 |
| 17.8678 | p-Menth-8(10)-en-9-ol, cis- | 15714-13-3 | C10H18O | 140133.8 | 77.7 | 0.2937 |
| 17.9520 | Hexanoic acid, pentadecyl ester | 1000279-26-8 | C21H42O2 | 139837.3 | 74.4 | 0.2931 |
| 18.0361 | Cyclohexane, butyl- | 1678-93-9 | C10H20 | 329938.8 | 80.9 | 0.6916 |
| 18.1073 | Carveol | 99-48-9 | C10H16O | 79946.1 | 78.9 | 0.1676 |
| 18.1559 | Benzene, 1-methyl-2-propyl- | 1074-17-5 | C10H14 | 258043.1 | 83.9 | 0.5409 |
| 18.2465 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 386874.4 | 90.5 | 0.811 |
| 18.3177 | Decane, 5-methyl- | 13151-35-4 | C11H24 | 199581.7 | 82.5 | 0.4184 |
| 18.3728 | Decane, 4-methyl- | 2847-72-5 | C11H24 | 211483.0 | 84.4 | 0.4433 |
| 18.4310 | 1-Octanol, 2-butyl- | 3913-02-8 | C12H26O | 282715.7 | 86.7 | 0.5926 |
| 18.4731 | Benzene, 1-methyl-4-propyl- | 1074-55-1 | C10H14 | 195008.3 | 94.0 | 0.4088 |
| 18.5540 | Decane, 3-methyl- | 13151-34-3 | C11H24 | 194879.4 | 91.4 | 0.4085 |
| 18.6187 | Cyclohexane, 1-methyl-3-(1-methylethenyl)-, cis- | 24399-15-3 | C10H18 | 464163.2 | 77.2 | 0.973 |
| 18.6576 | Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | C10H14 | 238690.2 | 93.0 | 0.5003 |
| 18.7612 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 497232.9 | 87.4 | 1.042 |
| 18.9424 | Sulfurous acid, cyclohexylmethyl undecyl ester | 1000309-21-9 | C18H36O3S | 441003.5 | 86.1 | 0.9244 |
| 19.0201 | Undecane | 1120-21-4 | C11H24 | 1751996.8 | 96.3 | 3.673 |
| 19.1593 | p-Cymene | 99-87-6 | C10H14 | 357979.3 | 79.5 | 0.7504 |
| 19.3470 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 622361.0 | 82.1 | 1.305 |
| 19.4117 | Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | C10H14 | 774789.4 | 86.7 | 1.624 |
| 19.5282 | Decane, 3,7-dimethyl- | 17312-54-8 | C12H26 | 490393.6 | 90.9 | 1.028 |
| 19.5995 | Naphthalene, decahydro-2-methyl- | 2958-76-1 | C11H20 | 760817.0 | 92.7 | 1.595 |
| 19.6610 | Benzene, 1,3-diethyl-5-methyl- | 2050-24-0 | C11H16 | 169730.3 | 83.0 | 0.3558 |
| 19.7289 | Benzene, 1,3-diethyl-5-methyl- | 2050-24-0 | C11H16 | 507191.3 | 85.6 | 1.063 |
| 19.8001 | Cyclohexane, pentyl- | 4292-92-6 | C11H22 | 654747.8 | 76.0 | 1.372 |
| 19.8875 | Naphthalene, decahydro-2-methyl- | 2958-76-1 | C11H20 | 940409.6 | 92.6 | 1.971 |
| 19.9717 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 1178798.7 | 88.1 | 2.471 |
| 20.0299 | Benzene, 1-methyl-4-(1-methylpropyl)- | 1595-16-0 | C11H16 | 514282.7 | 76.5 | 1.078 |
| 20.0850 | Undecane, 2-methyl- | 7045-71-8 | C12H26 | 433320.0 | 92.1 | 0.9083 |
| 20.1594 | Naphthalene, 1,2,3,4-tetrahydro- | 119-64-2 | C10H12 | 788629.5 | 82.2 | 1.653 |
| 20.2047 | Undecane, 3-methyl- | 1002-43-3 | C12H26 | 452377.2 | 89.1 | 0.9483 |
| 20.2500 | Benzene, 1-methyl-4-(1-methylpropyl)- | 1595-16-0 | C11H16 | 293560.8 | 89.2 | 0.6154 |
| 20.3309 | Cyclododecanemethanol | 1892-12-2 | C13H26O | 378379.3 | 85.4 | 0.7932 |
| 20.4734 | Anisole, o-(1-ethylvinyl)- | 18272-74-7 | C11H14O | 778964.7 | 78.4 | 1.633 |
| 20.5316 | Azulene | 275-51-4 | C10H8 | 1053872.4 | 73.8 | 2.209 |
| 20.6352 | Dodecane | 112-40-3 | C12H26 | 2559302.0 | 91.6 | 5.365 |
| 20.8909 | Undecane, 2,6-dimethyl- | 17301-23-4 | C13H28 | 1149939.9 | 88.1 | 2.41 |
| 21.0139 | Benzene, 2,4-dimethyl-1-(1-methylpropyl)- | 1483-60-9 | C12H18 | 711819.8 | 80.3 | 1.492 |
| 21.2113 | Naphth[1,2-b]oxirene, decahydro-1a,7-dimethyl- | 55976-08-4 | C12H20O | 524527.4 | 74.9 | 1.1 |
| 21.2696 | Benzene, 1-ethyl-4-(1-methylethyl)- | 4218-48-8 | C11H16 | 712034.4 | 72.0 | 1.493 |
| 21.3861 | Cyclohexane, 2-butyl-1,1,3-trimethyl- | 54676-39-0 | C13H26 | 430897.2 | 88.9 | 0.9032 |
| 21.4444 | Hexanol-1, 6-cyclohexyl- | 4354-58-9 | C12H24O | 1375537.1 | 76.2 | 2.883 |
| 21.5577 | Undecane, 4,8-dimethyl- | 17301-33-6 | C13H28 | 636084.1 | 70.5 | 1.333 |
| 21.6224 | Undecane, 2,10-dimethyl- | 17301-27-8 | C13H28 | 441248.4 | 78.6 | 0.9249 |
| 21.6806 | Benzene, 1,4-dimethyl-2-(2-methylpropyl)- | 55669-88-0 | C12H18 | 347940.9 | 74.4 | 0.7293 |
| 21.7357 | Undecane, 3,9-dimethyl- | 17301-31-4 | C13H28 | 533658.3 | 74.9 | 1.119 |
| 21.7939 | Tridecane, 7-methyl- | 26730-14-3 | C14H30 | 1143623.5 | 72.5 | 2.397 |
| 22.1370 | Tridecane | 629-50-5 | C13H28 | 1874710.3 | 91.9 | 3.93 |
| 22.2600 | Naphthalene, 2-methyl- | 91-57-6 | C11H10 | 1160840.4 | 94.4 | 2.433 |

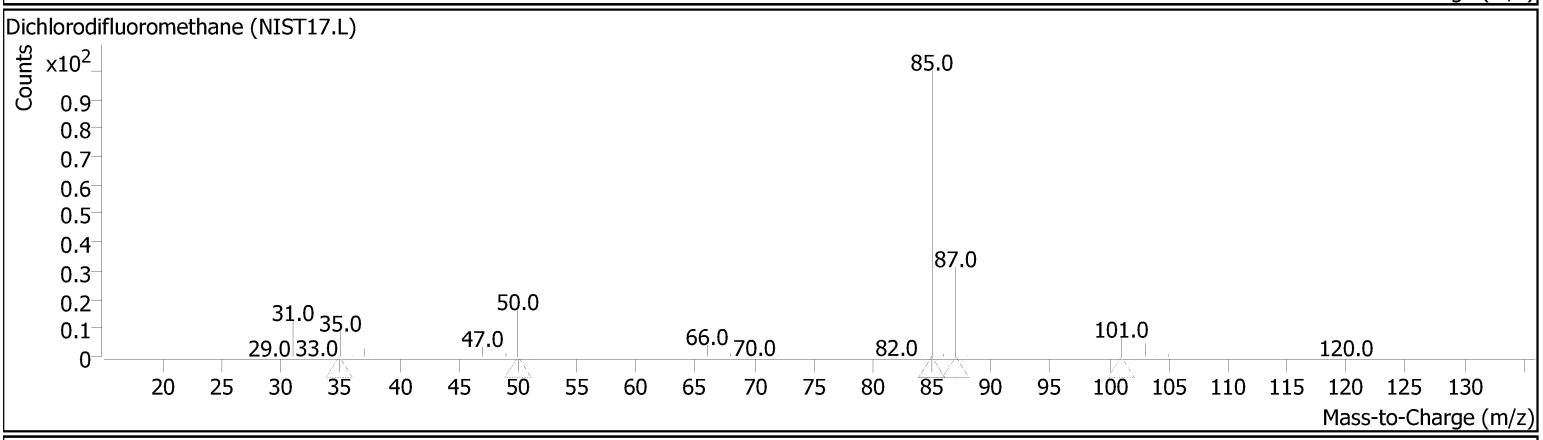
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.4477 | Tridecane, 6-methyl- | 13287-21-3 | C14H30 | 373499.1 | 73.9 | 0.7829 |
| 22.5254 | Naphthalene, 2-methyl- | 91-57-6 | C11H10 | 583019.3 | 92.9 | 1.222 |
| 22.6096 | Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethyl- | 13065-07-1 | C12H16 | 413440.2 | 90.1 | 0.8666 |
| 22.6840 | Benzene, cyclohexyl- | 827-52-1 | C12H16 | 408726.0 | 71.7 | 0.8568 |
| 22.7973 | 5,7-Dodecadiene, (E,E)- | 30651-68-4 | C12H22 | 390592.3 | 75.0 | 0.8188 |
| 22.8847 | 1H-Indene, 2,3-dihydro-1,1,4,5-tetramethyl- | 16204-57-2 | C13H18 | 257026.2 | 72.1 | 0.5388 |
| 23.0659 | Hexadecane, 1-chloro- | 4860-03-1 | C16H33Cl | 175847.0 | 71.2 | 0.3686 |
| 23.1889 | Naphthalene, 1,2,3,4-tetrahydro-1,1,6-trimethyl- | 475-03-6 | C13H18 | 157357.0 | 71.7 | 0.3298 |
| 23.3216 | Phytol | 150-86-7 | C20H40O | 63910.6 | 80.3 | 0.134 |
| 23.3864 | 1,3-Cyclododecadiene, (E,Z)- | 1129-92-6 | C12H20 | 294338.8 | 86.5 | 0.617 |
| 23.5515 | Cyclohexane, 1-(cyclohexylmethyl)-2-ethyl-, trans- | 54934-92-8 | C15H28 | 31139.7 | 74.8 | 0.06527 |
| 23.7036 | Naphthalene, 1,2,3,4-tetrahydro-5,7-dimethyl- | 21693-54-9 | C12H16 | 115340.2 | 75.2 | 0.2418 |

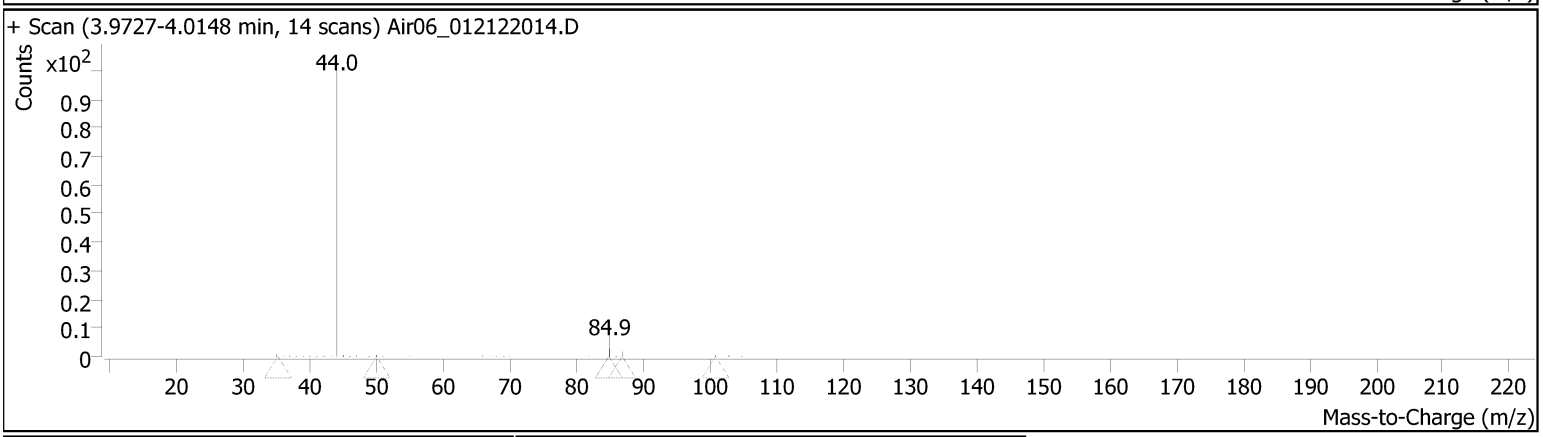
**Sample Chromatogram**

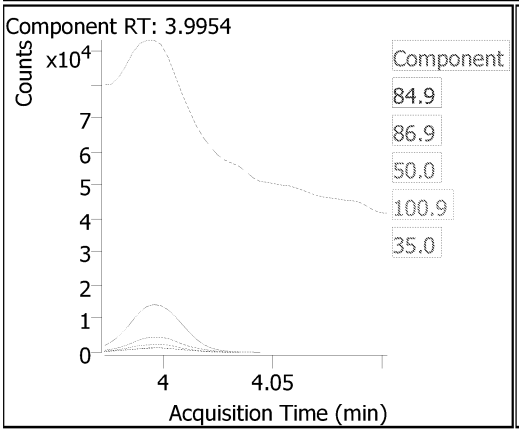


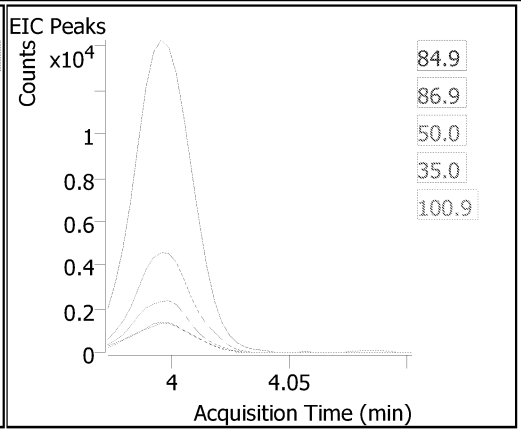
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9954 | Dichlorodifluoromethane | 184803.4 | 98.3 | 75-71-8 | CCl2F2 | 0.7267 |

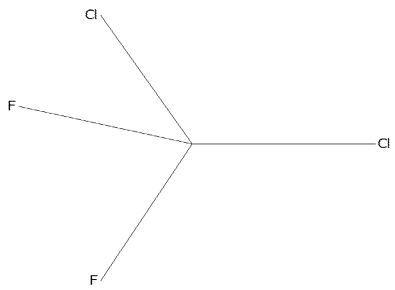


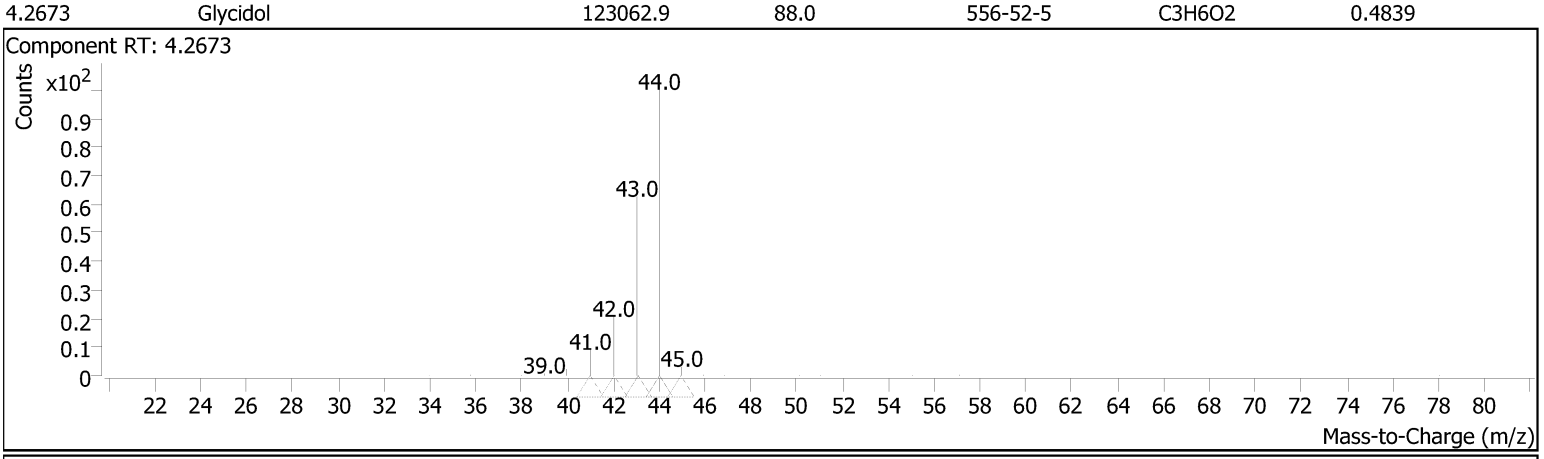



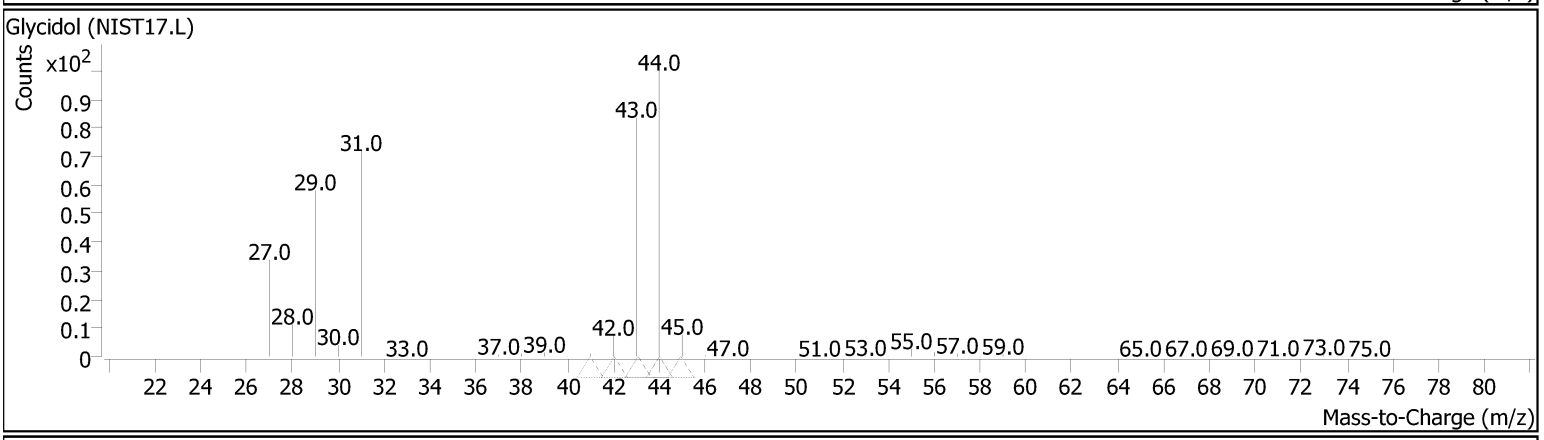



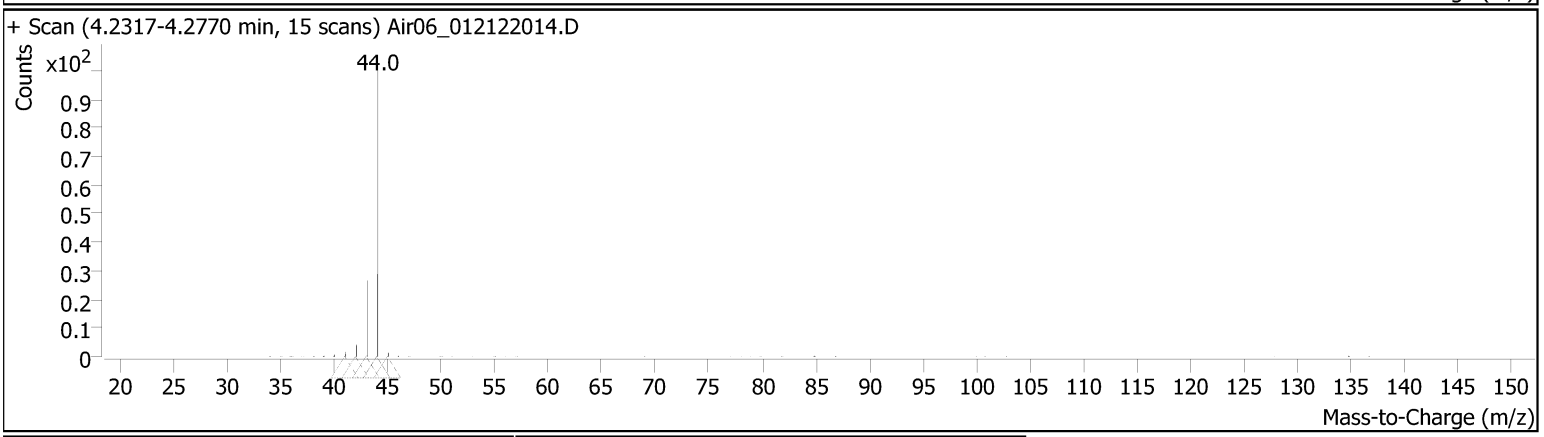



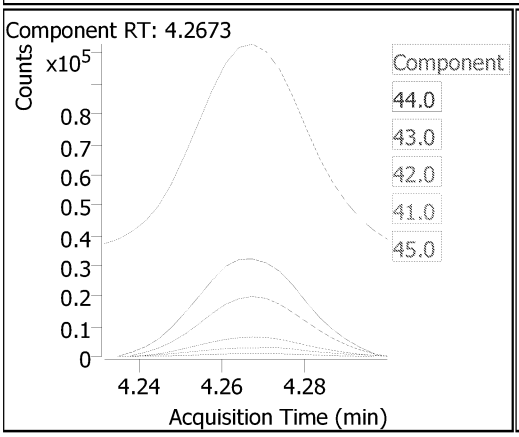



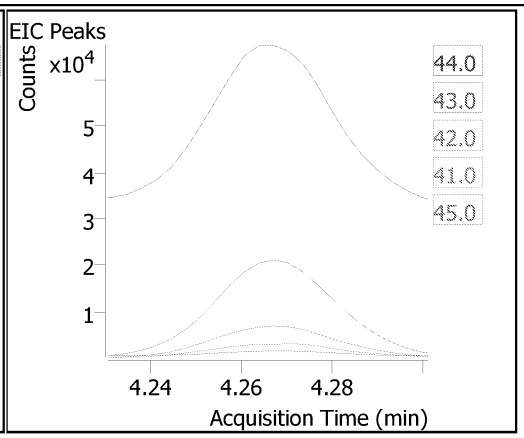
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.2673 | Glycidol | 123062.9 | 88.0 | 556-52-5 | C3H6O2 | 0.4839 |

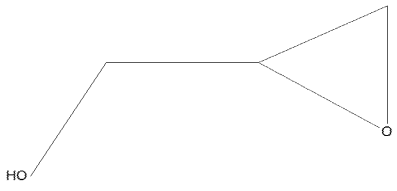


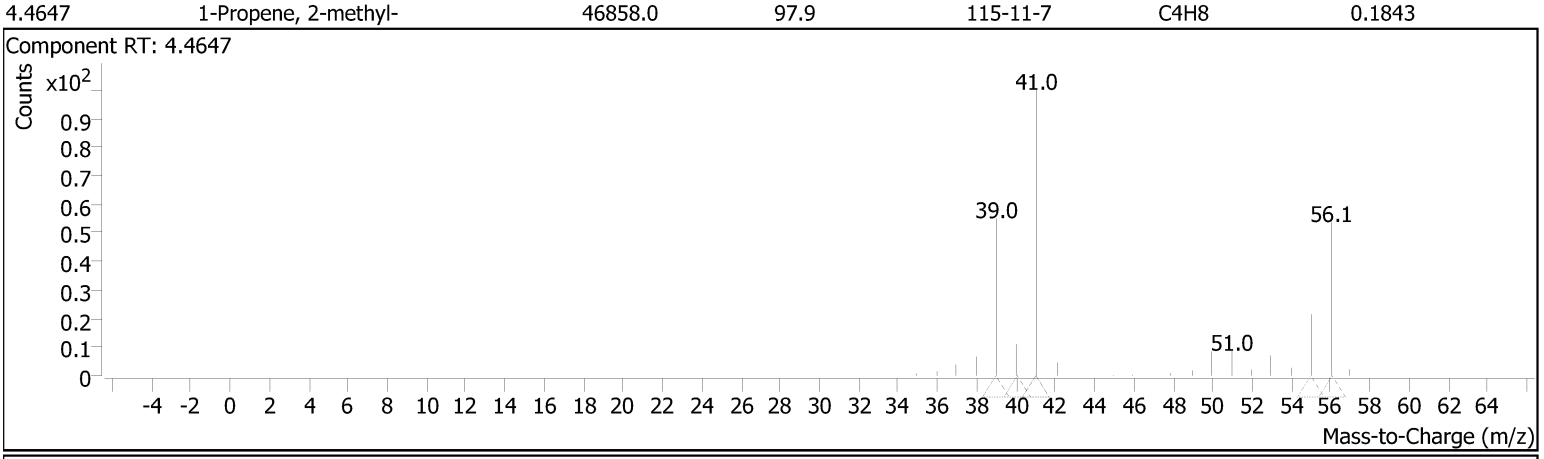



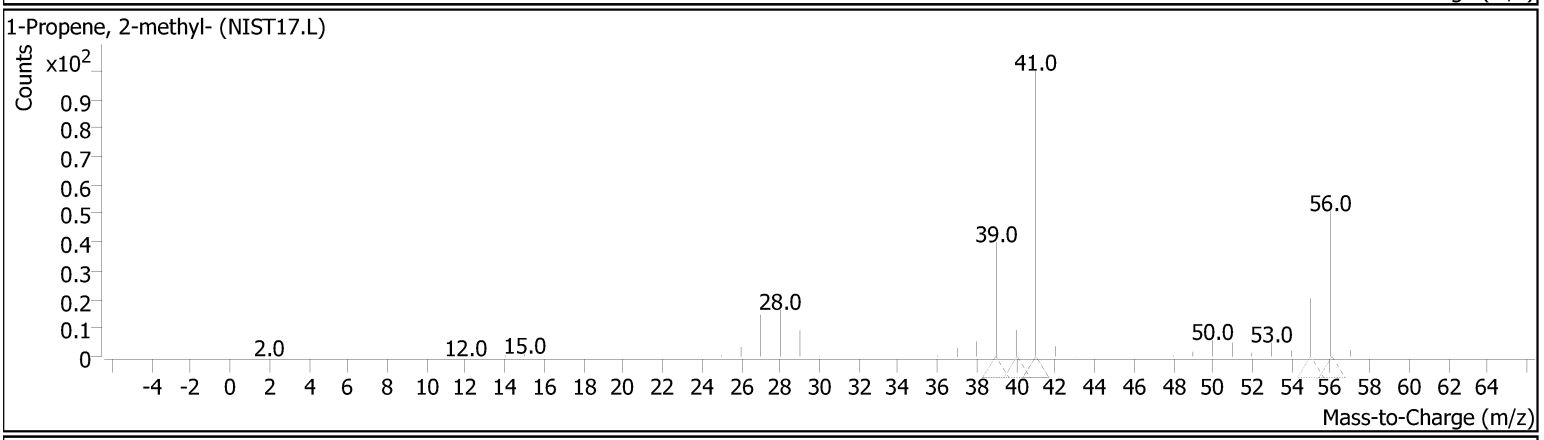



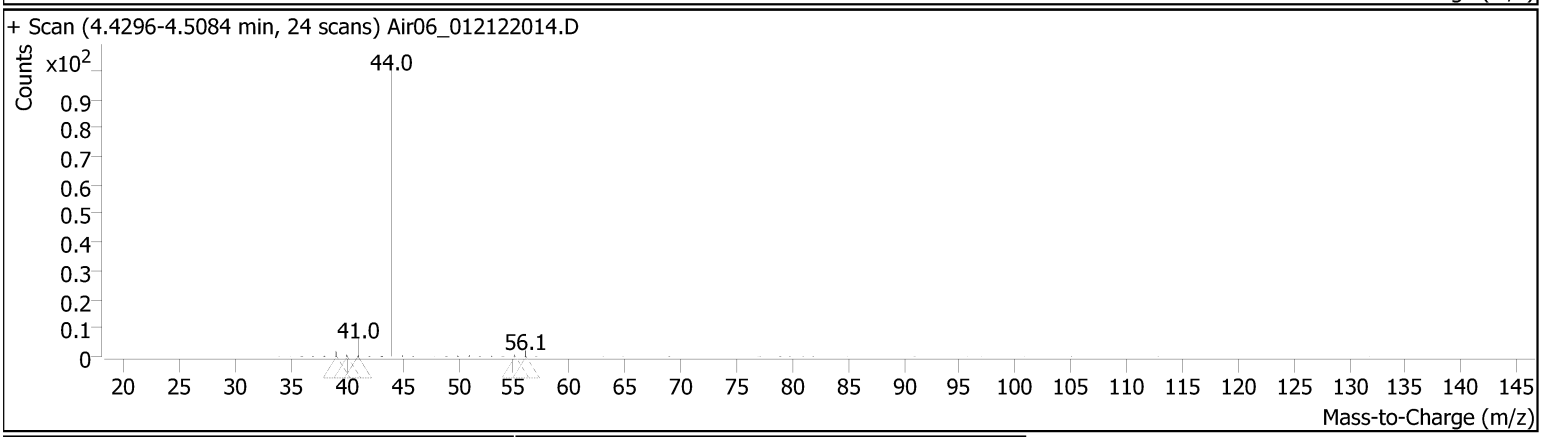



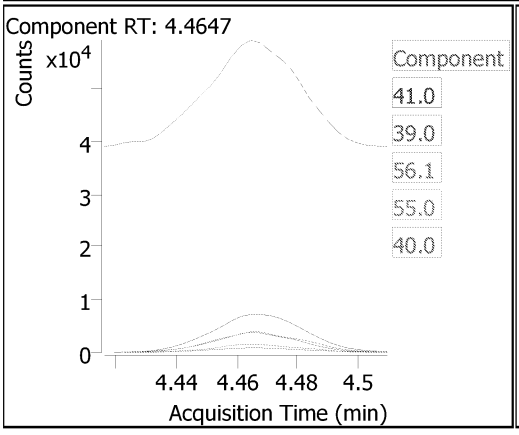



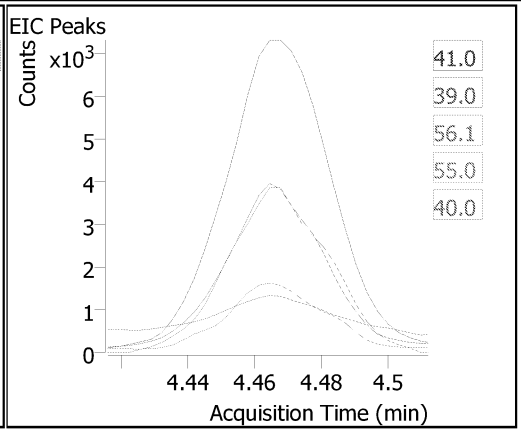
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.4647 | 1-Propene, 2-methyl- | 46858.0 | 97.9 | 115-11-7 | C4H8 | 0.1843 |

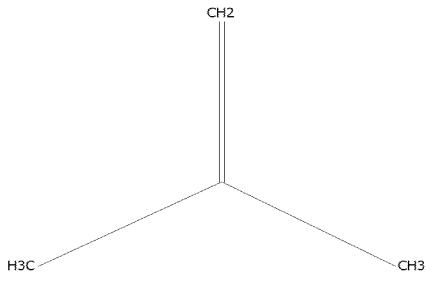


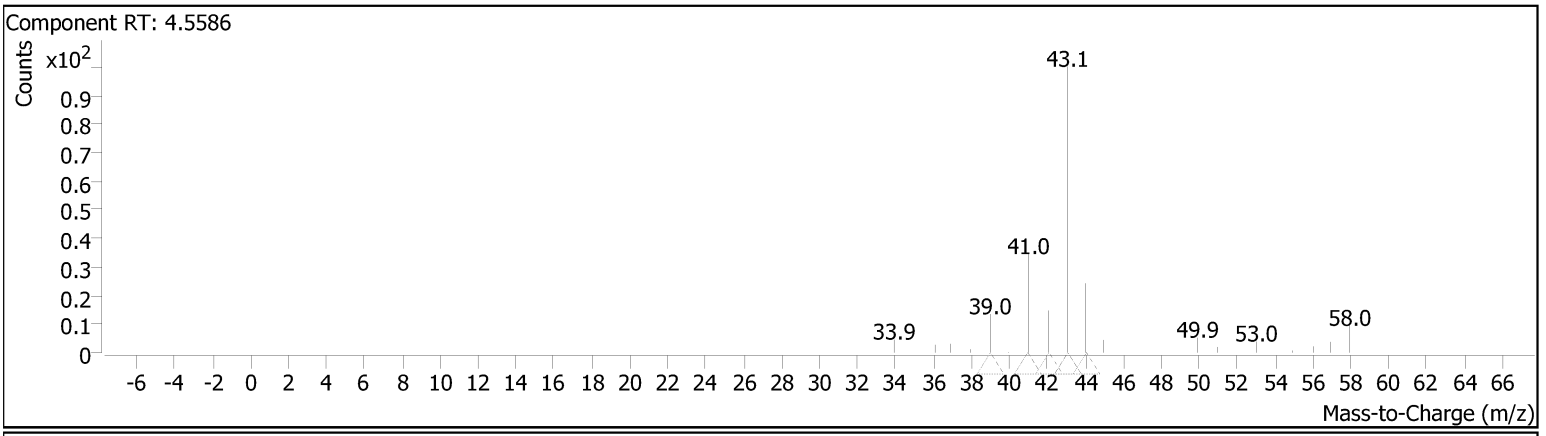



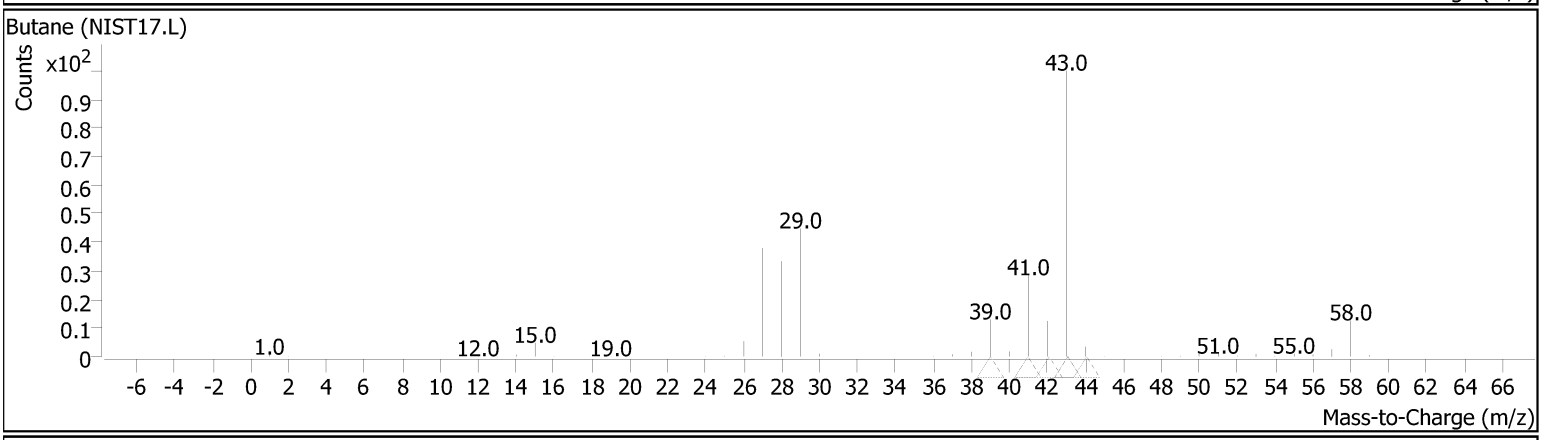



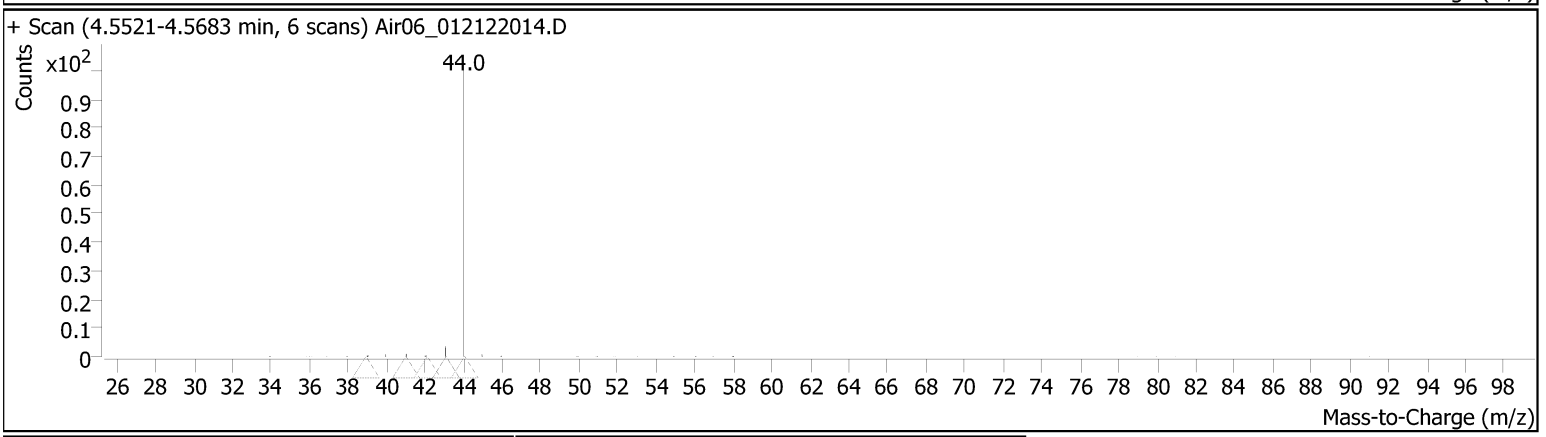



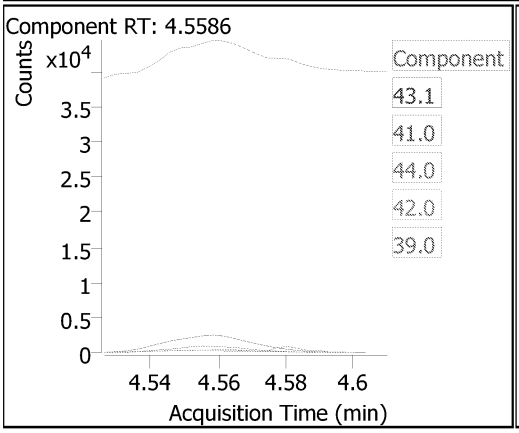



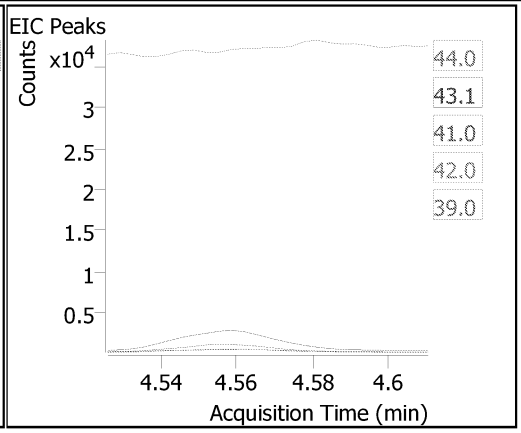
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.5586 | Butane | 12680.2 | 87.7 | 106-97-8 | C4H10 | 0.04986 |



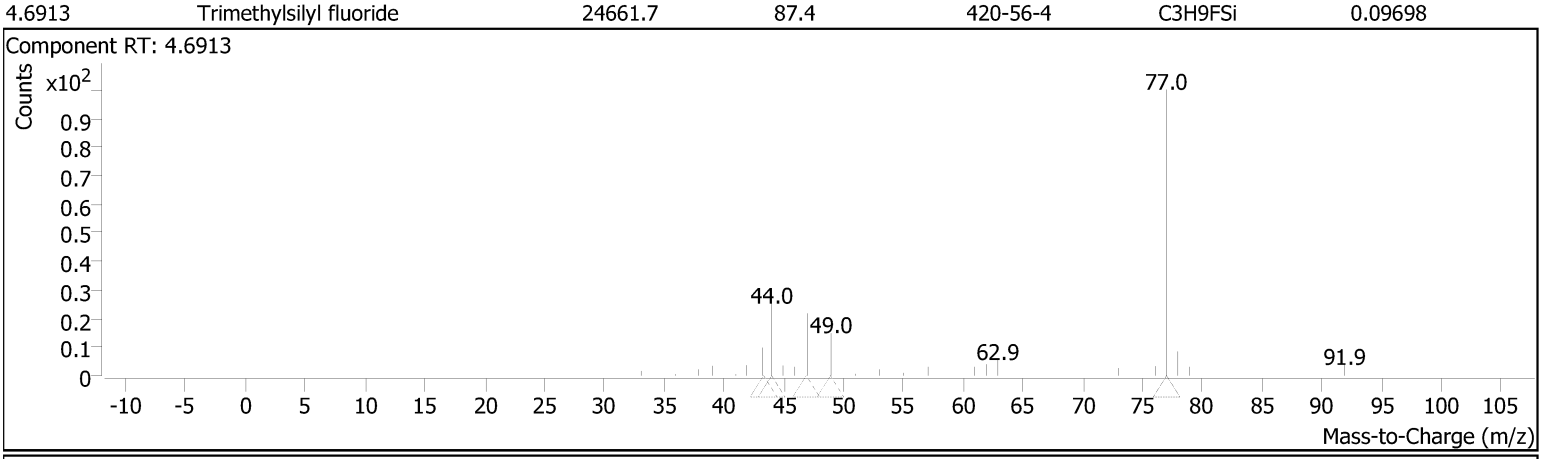



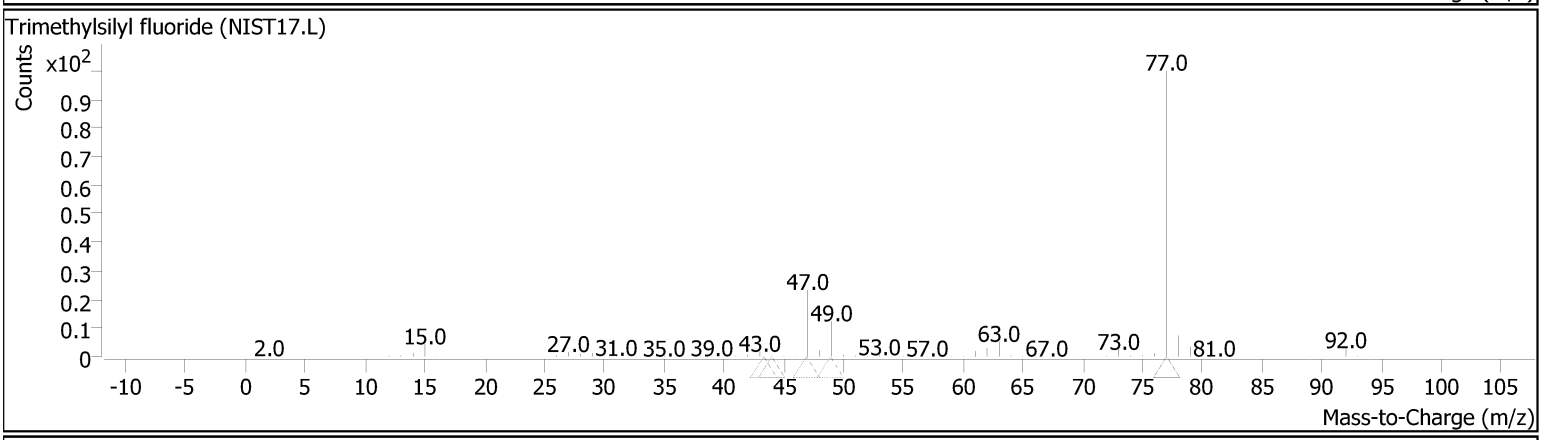



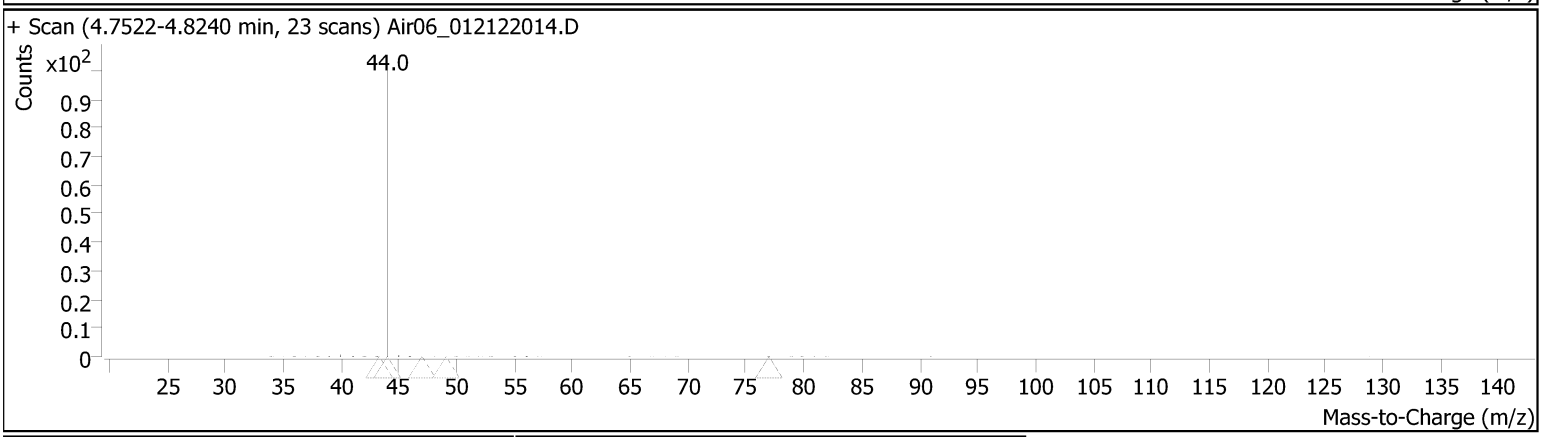



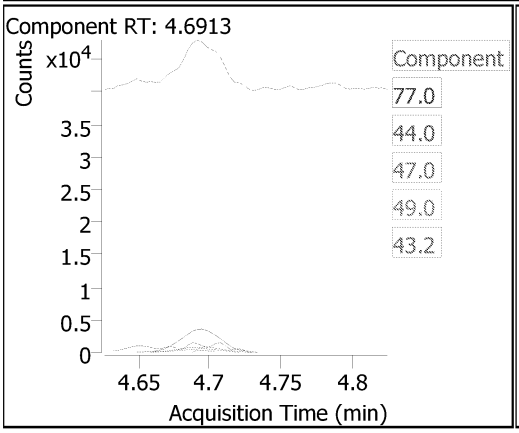


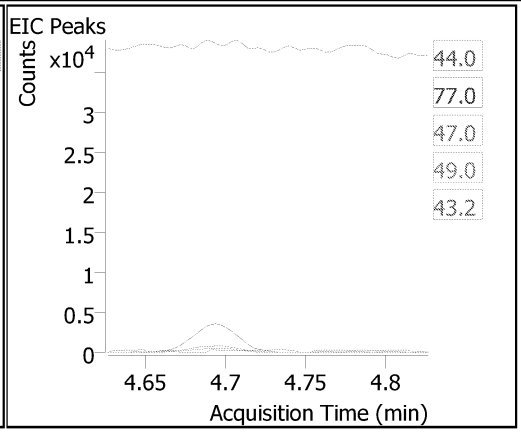

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.6913 | Trimethylsilyl fluoride | 24661.7 | 87.4 | 420-56-4 | C3H9FSi | 0.09698 |

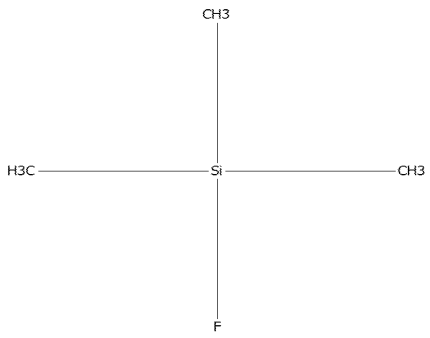


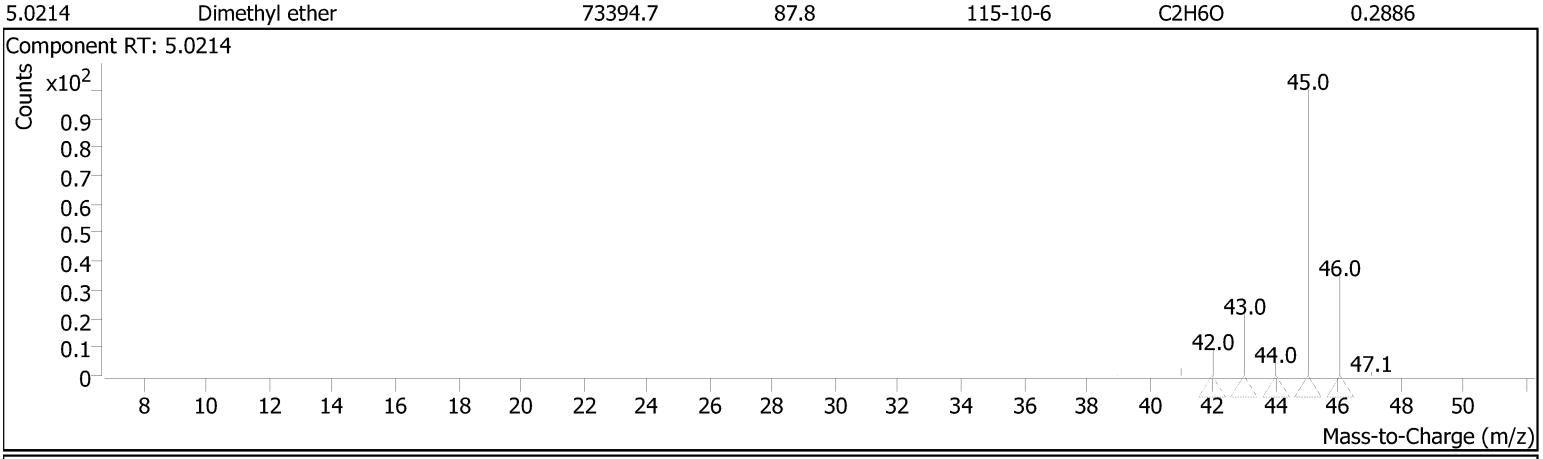



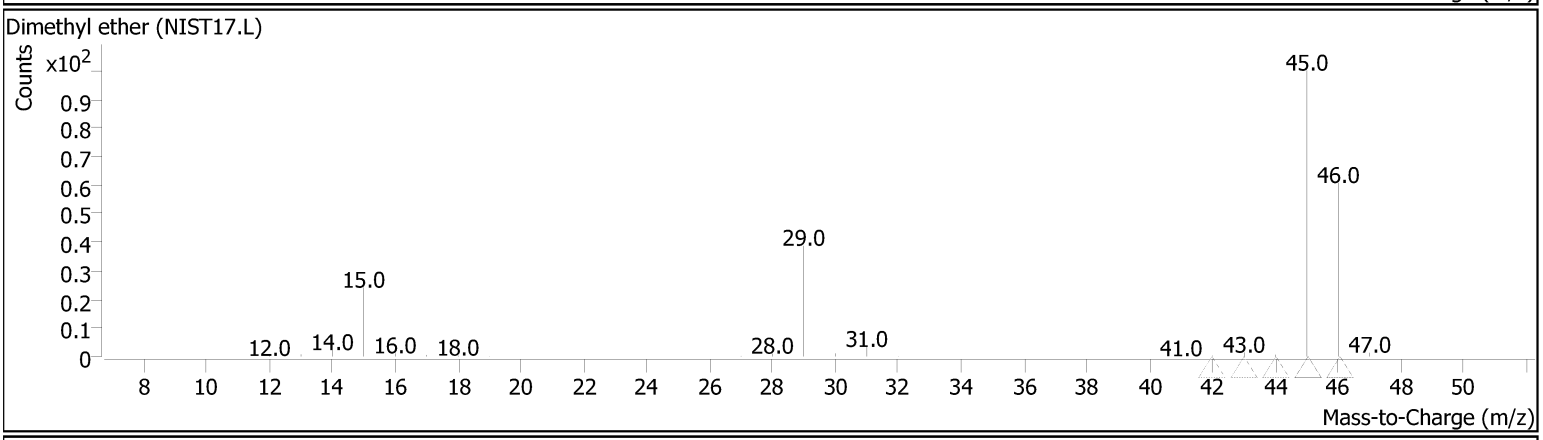



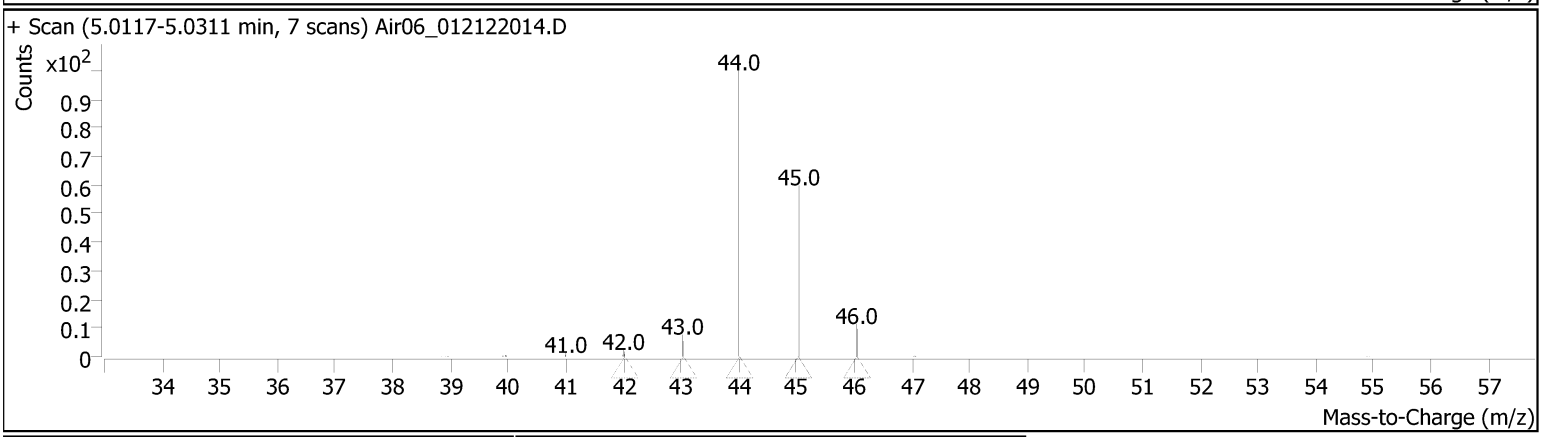



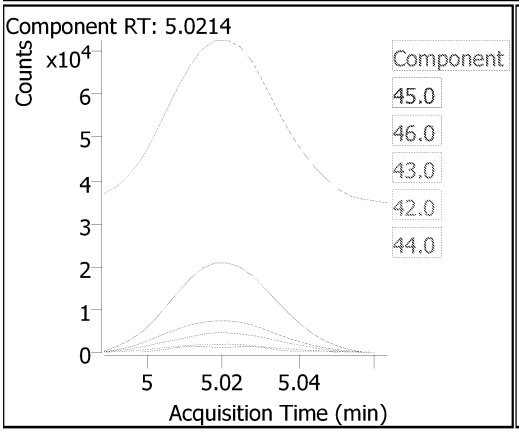



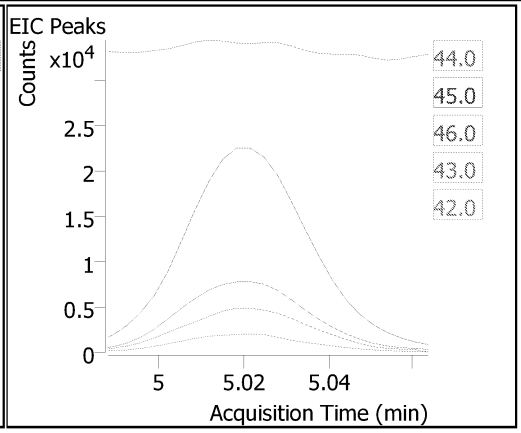
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.0214 | Dimethyl ether | 73394.7 | 87.8 | 115-10-6 | C2H6O | 0.2886 |

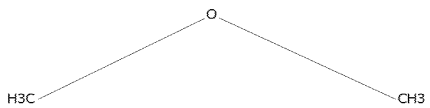


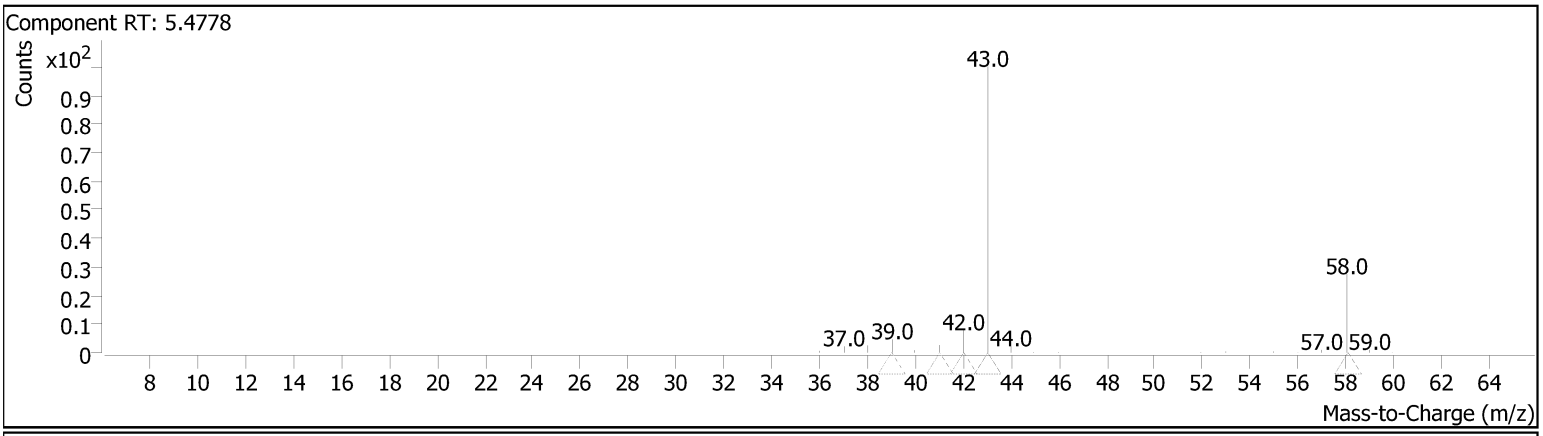



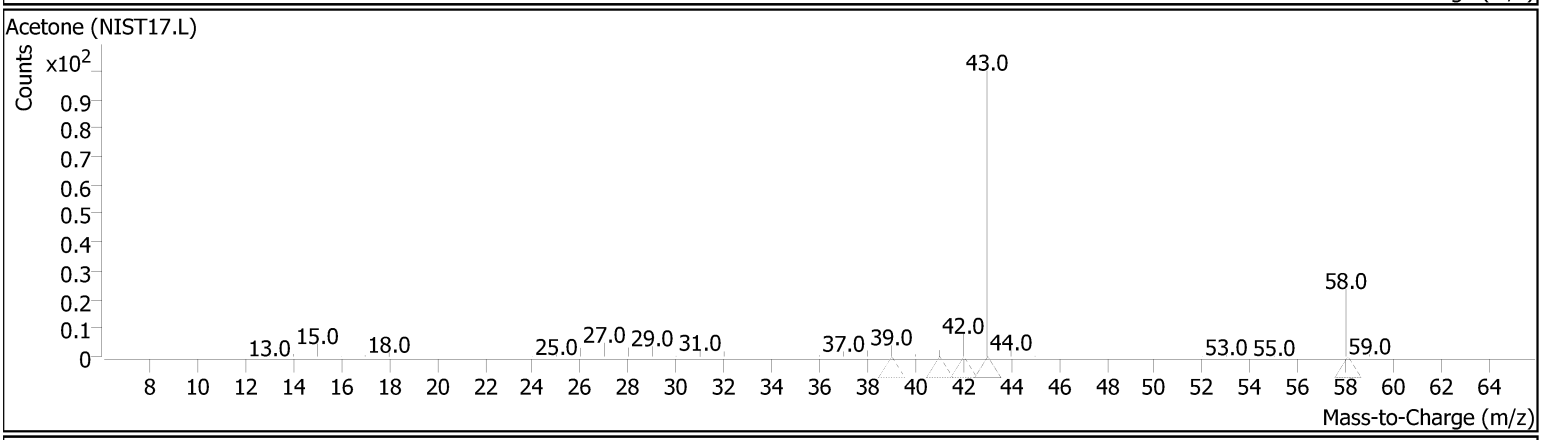



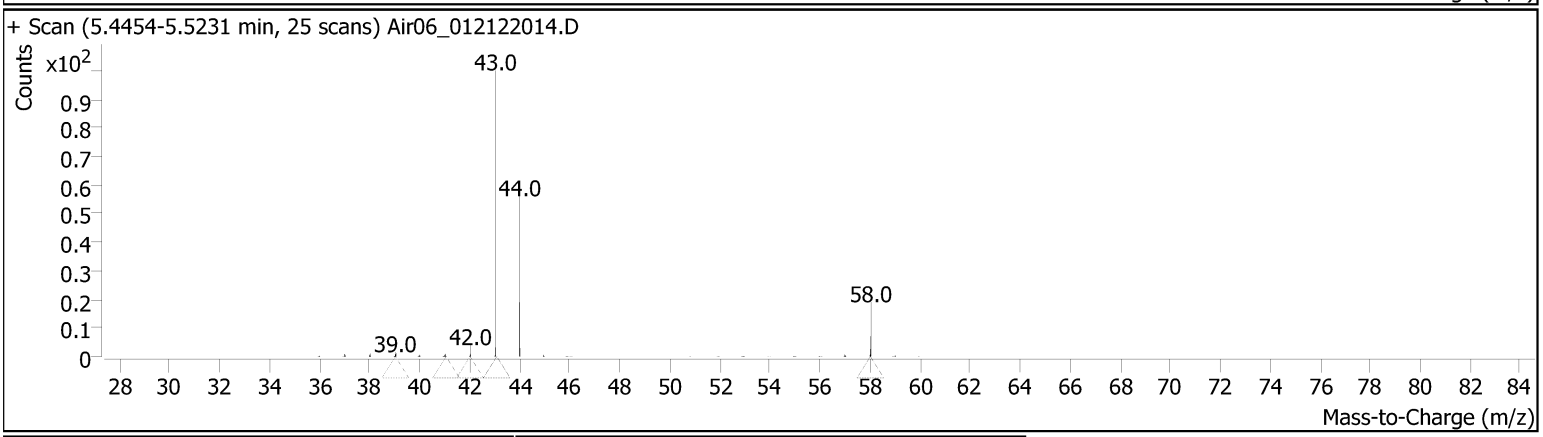



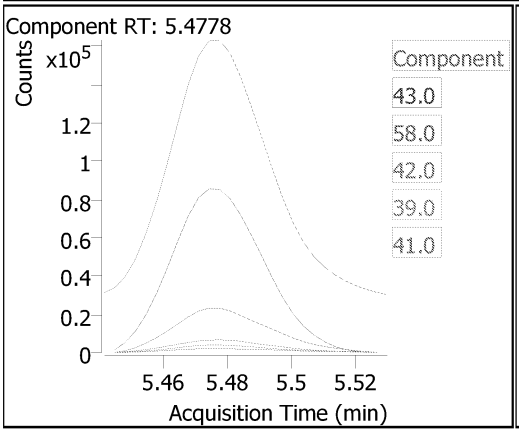



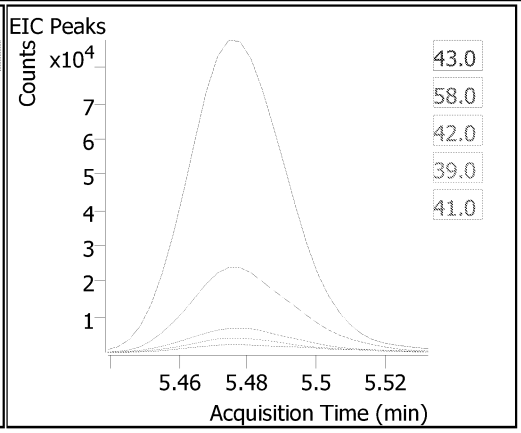
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.4778 | Acetone | 282182.9 | 98.7 | 67-64-1 | C3H6O | 1.11 |

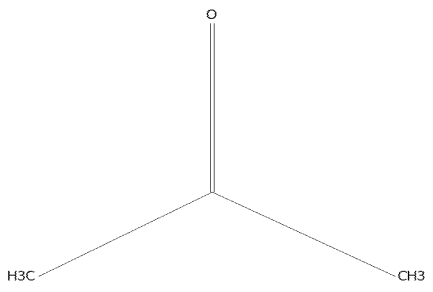


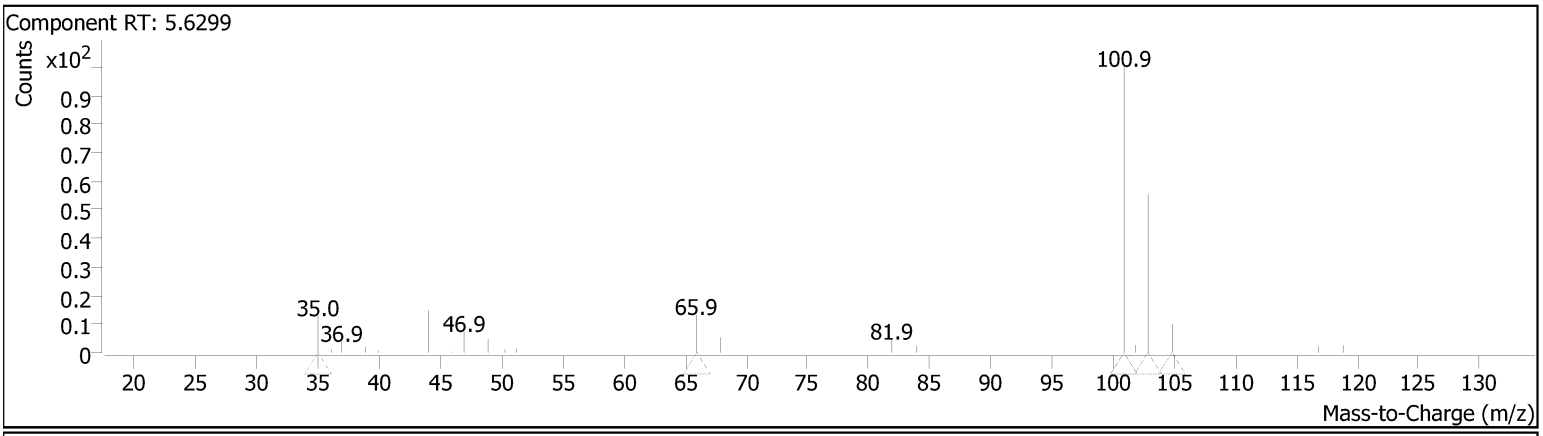



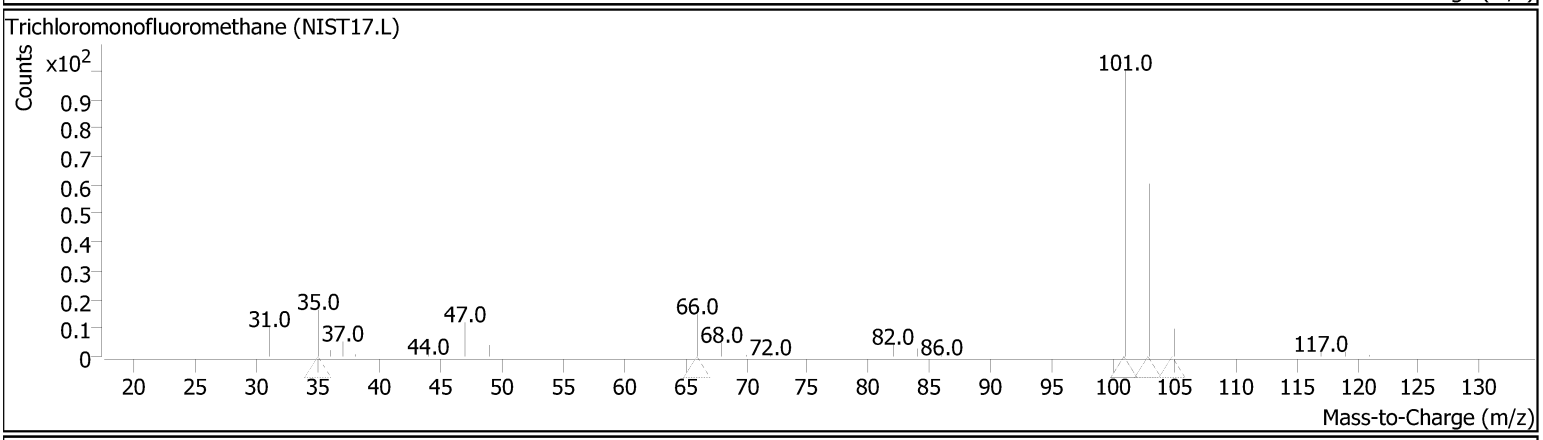



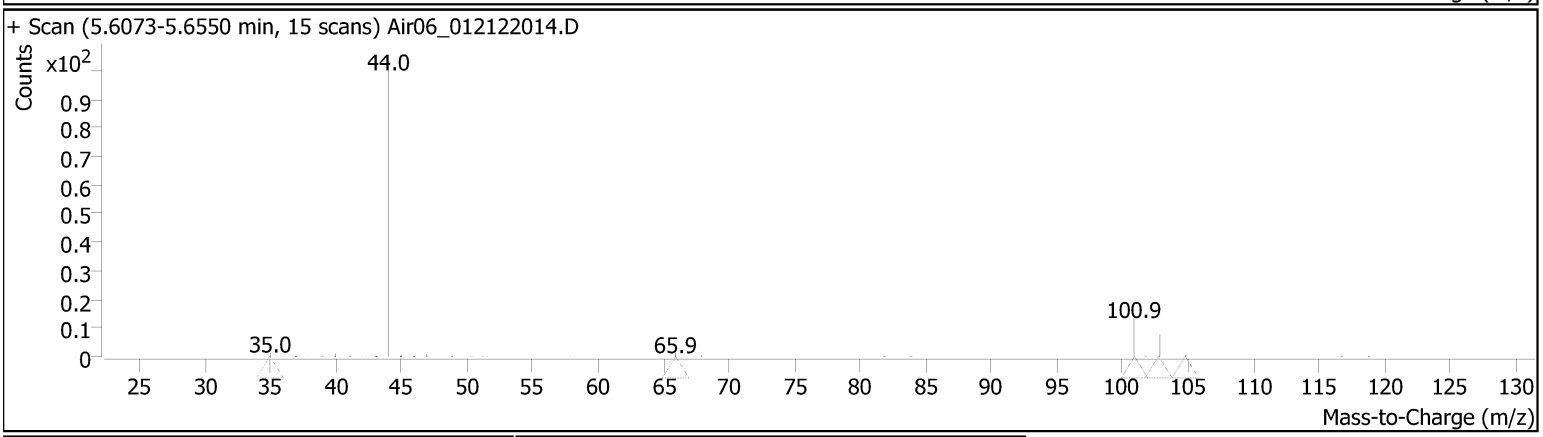



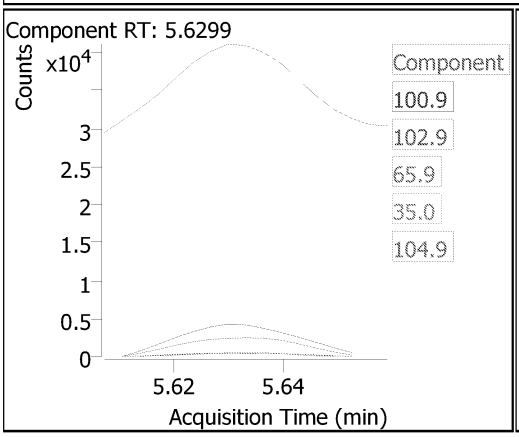



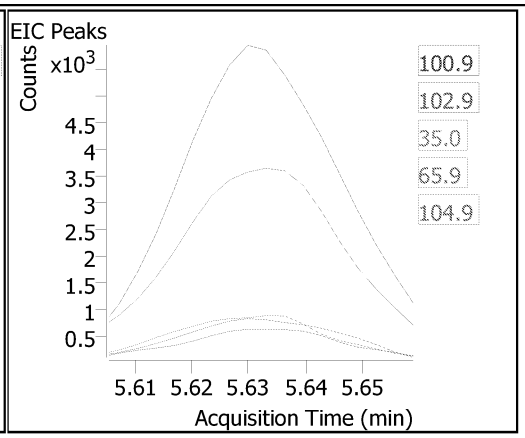
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.6299 | Trichloromonofluoromethane | 21924.6 | 94.8 | 75-69-4 | CCl3F | 0.08622 |

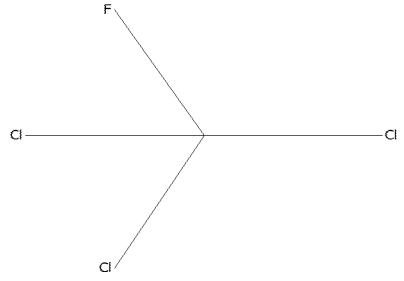


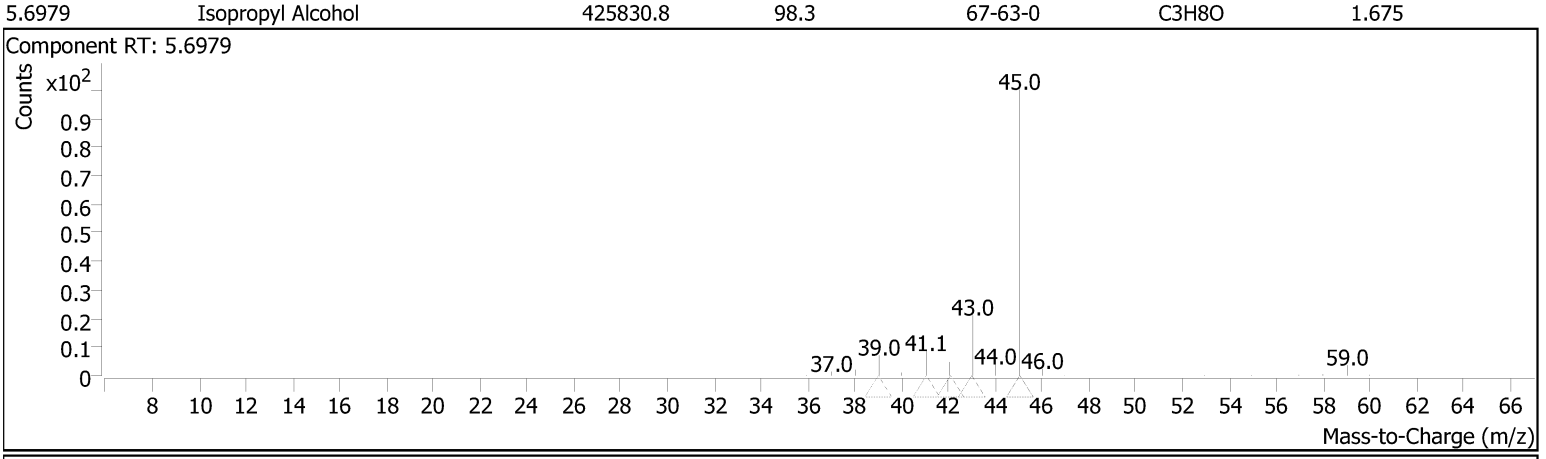



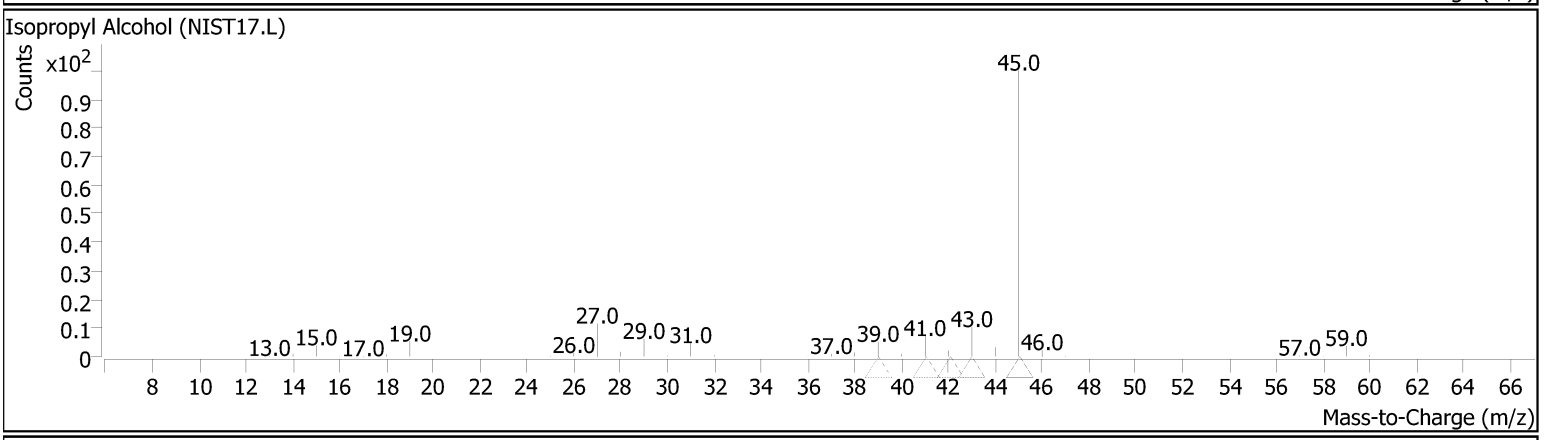



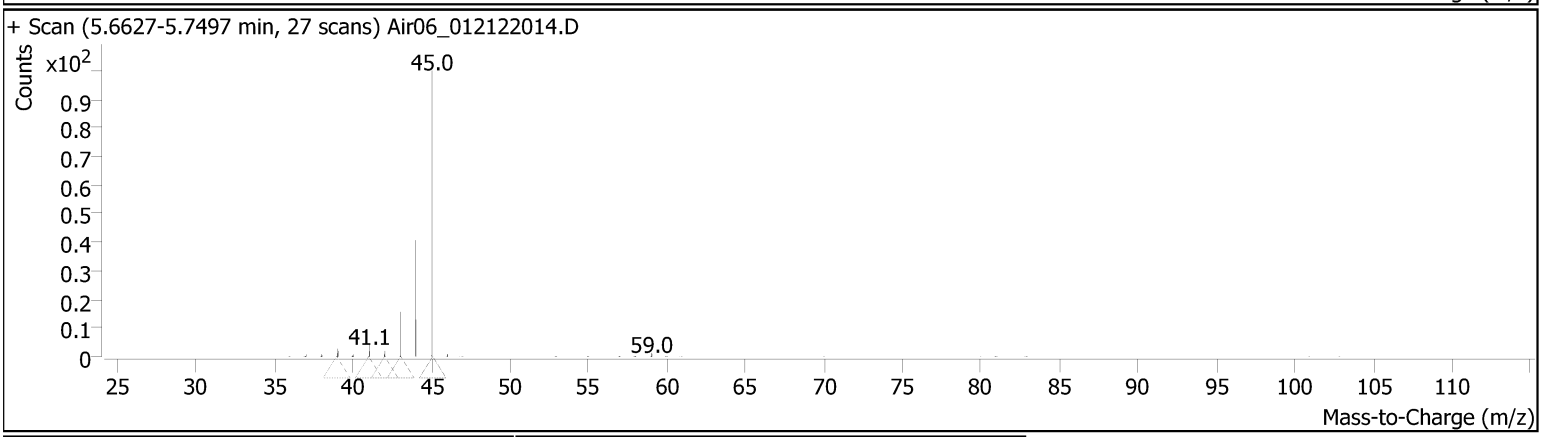



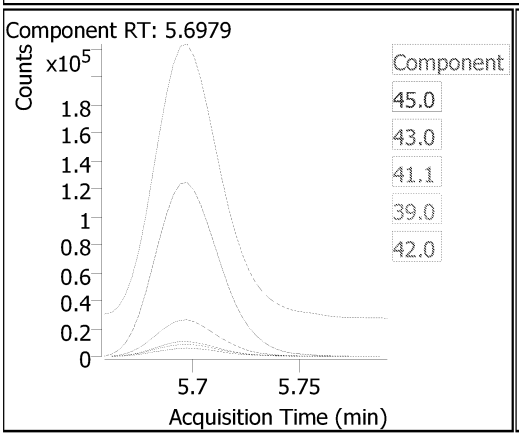



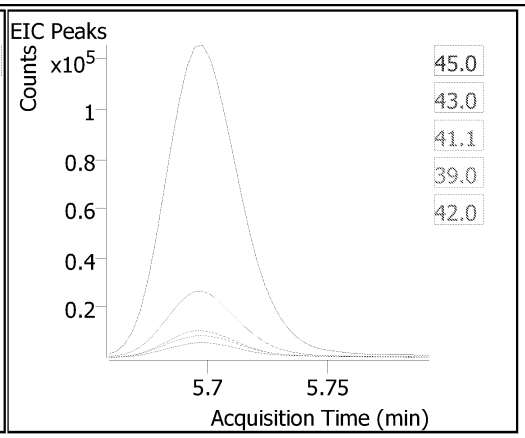
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.6979 | Isopropyl Alcohol | 425830.8 | 98.3 | 67-63-0 | C3H8O | 1.675 |

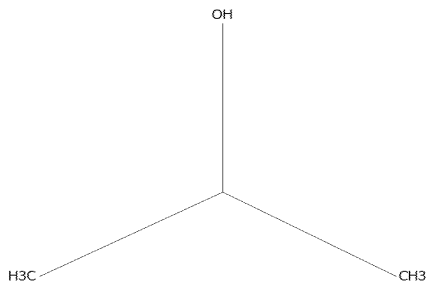


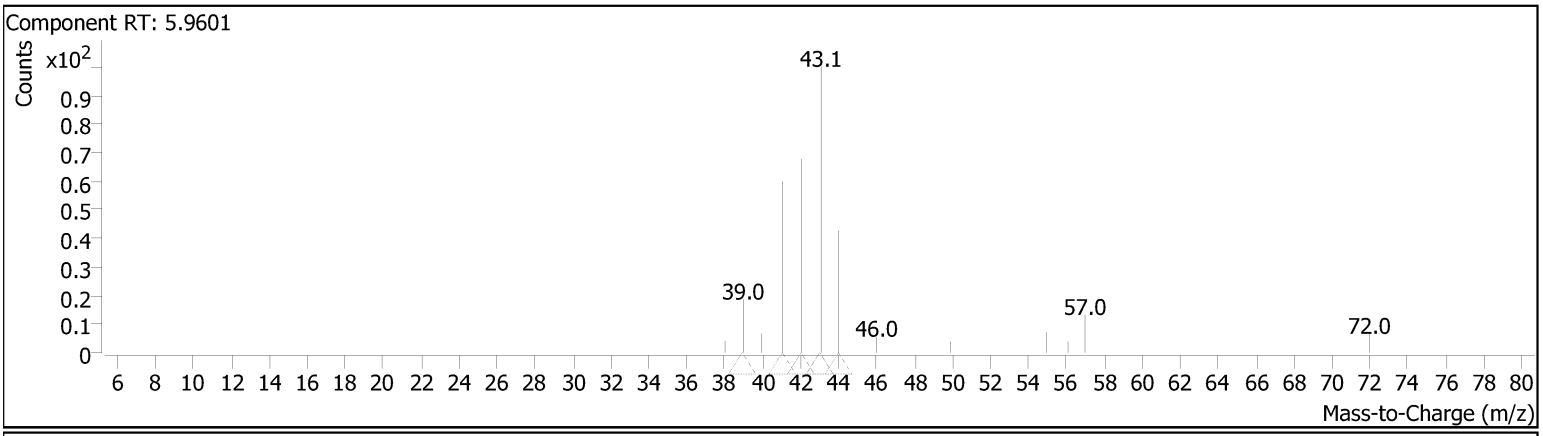



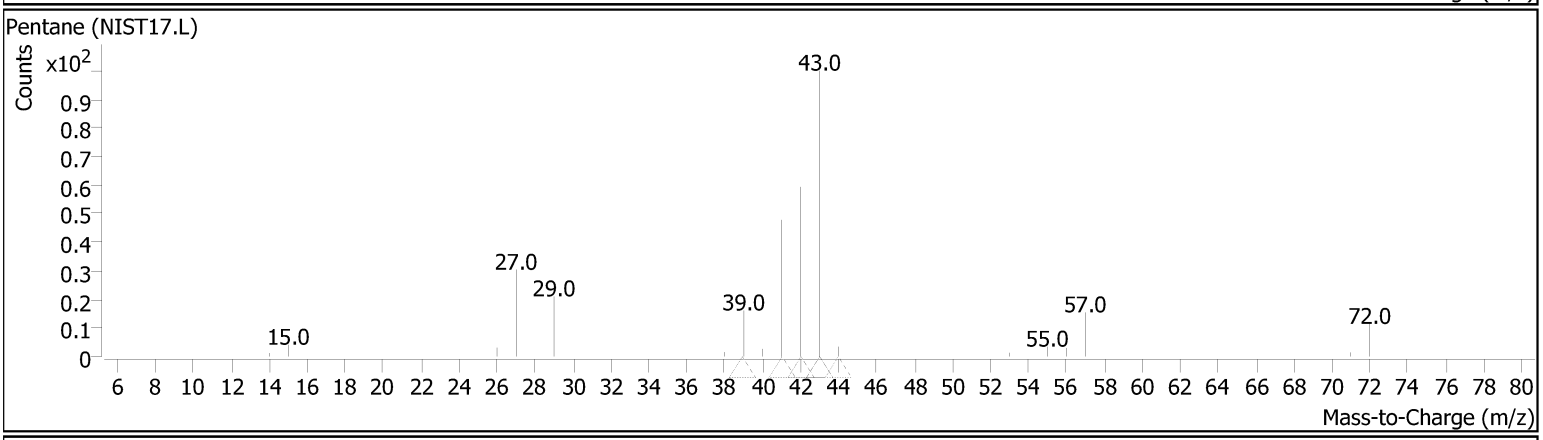



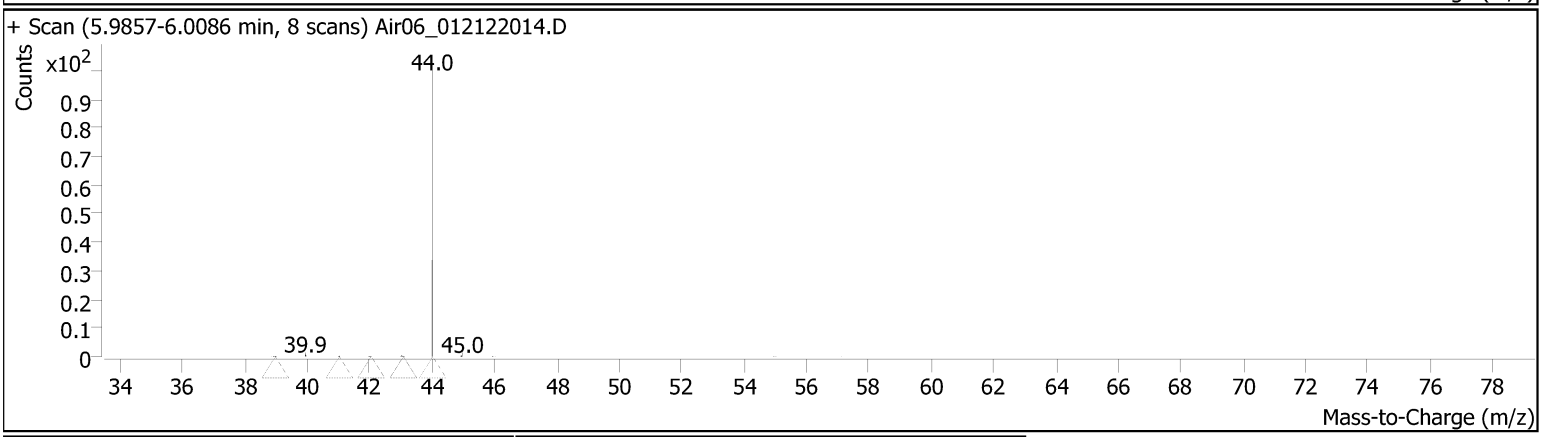



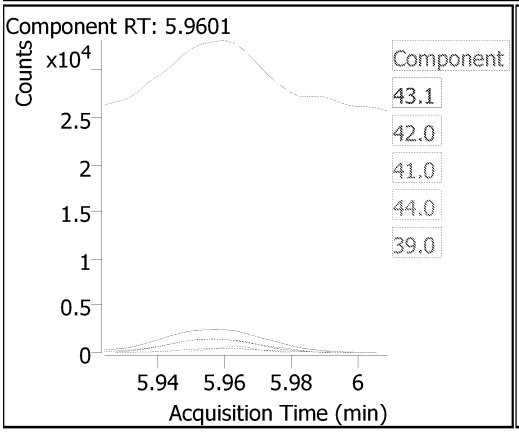



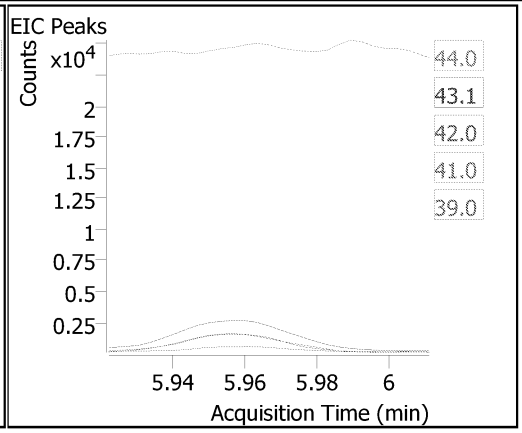
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.9601 | Pentane | 16052.4 | 89.6 | 109-66-0 | C5H12 | 0.06312 |

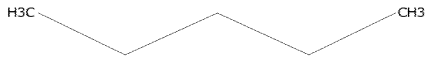


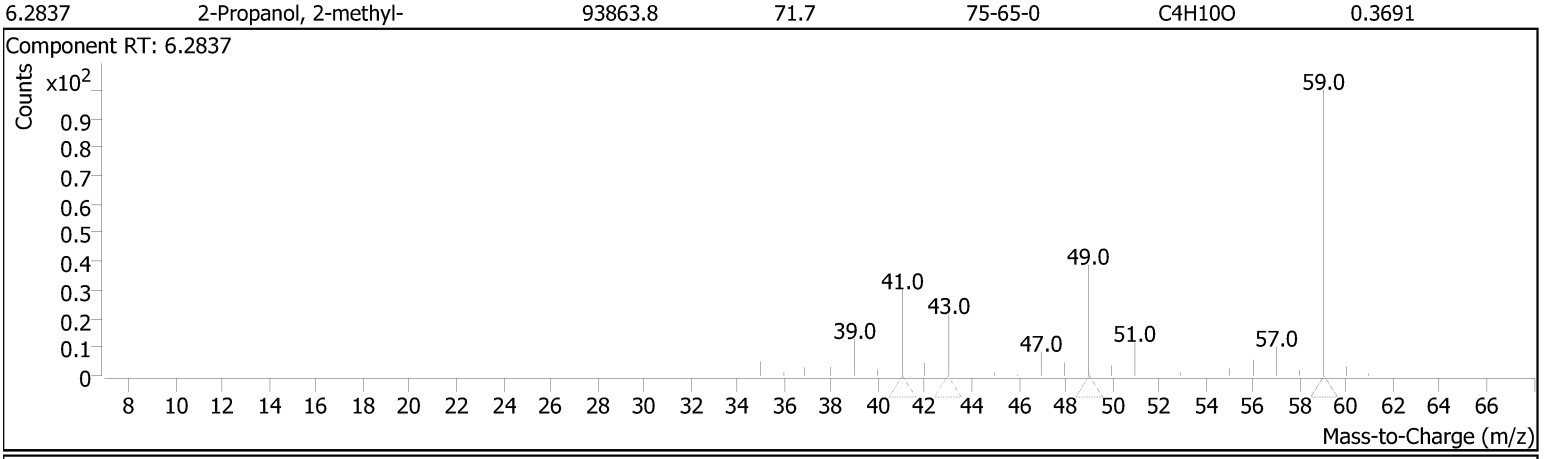



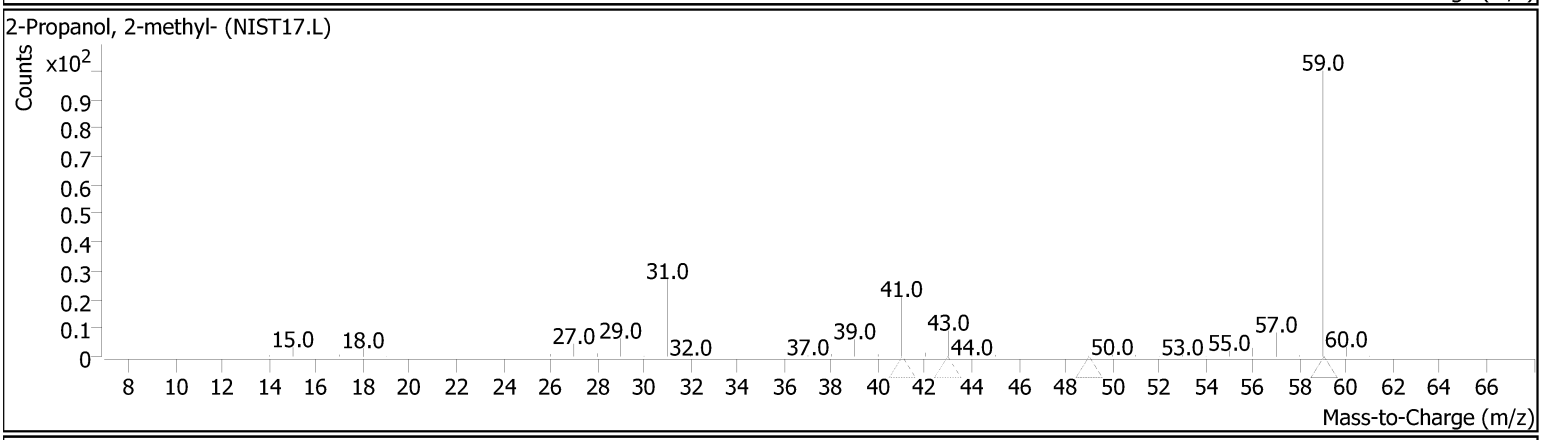



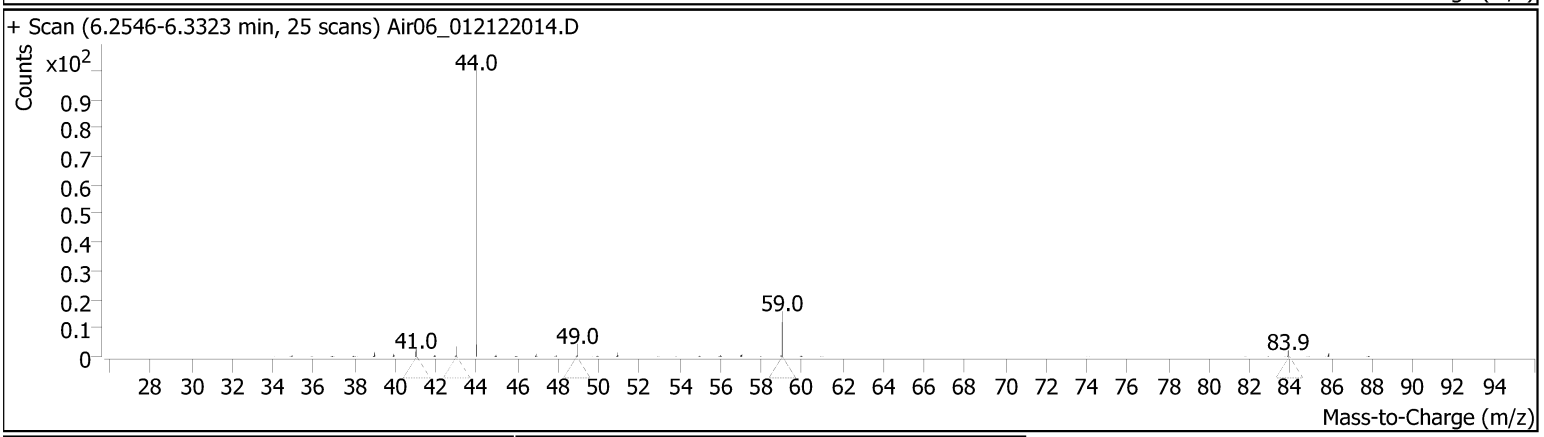



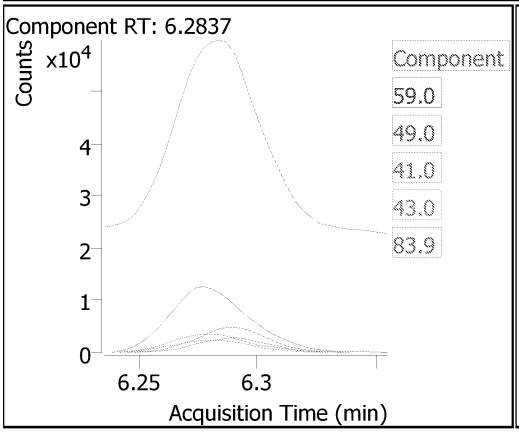



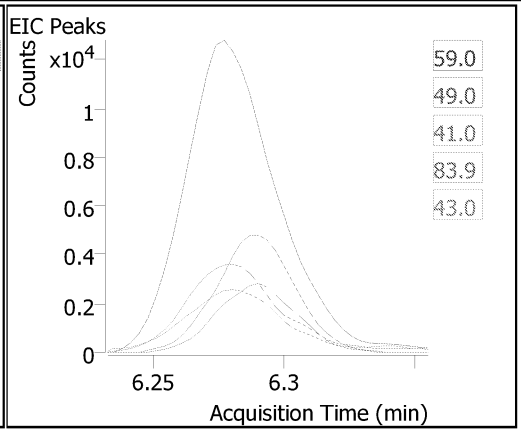
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.2837 | 2-Propanol, 2-methyl- | 93863.8 | 71.7 | 75-65-0 | C4H10O | 0.3691 |

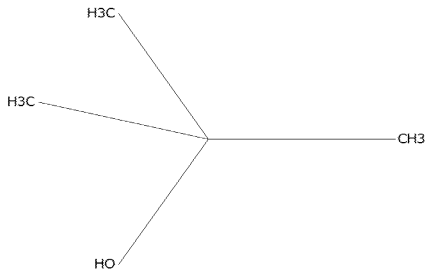


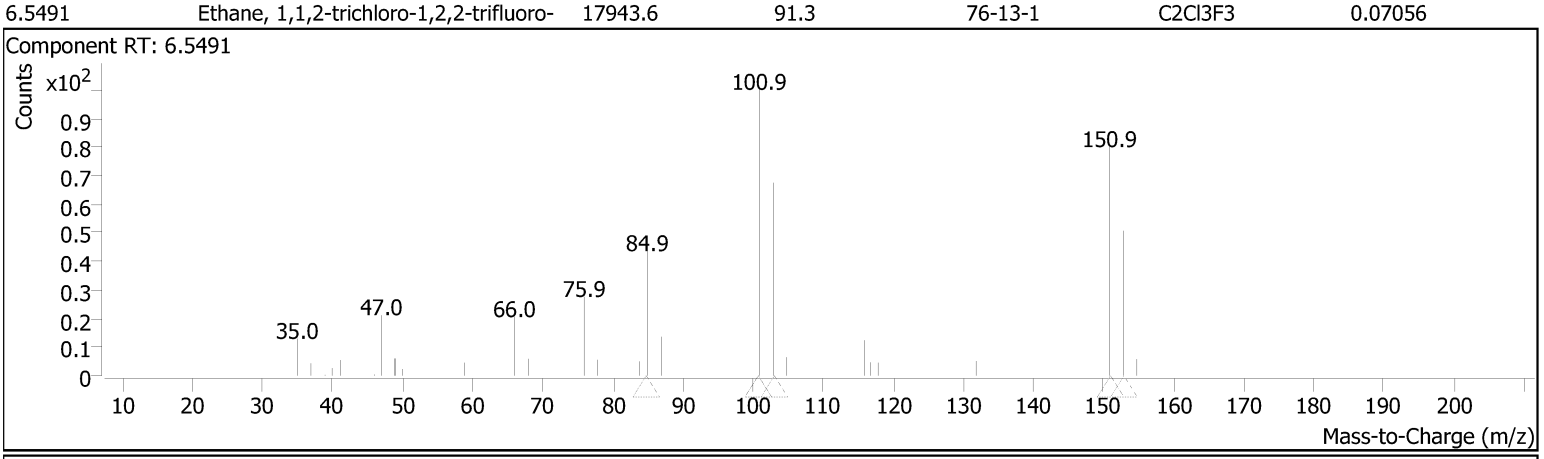



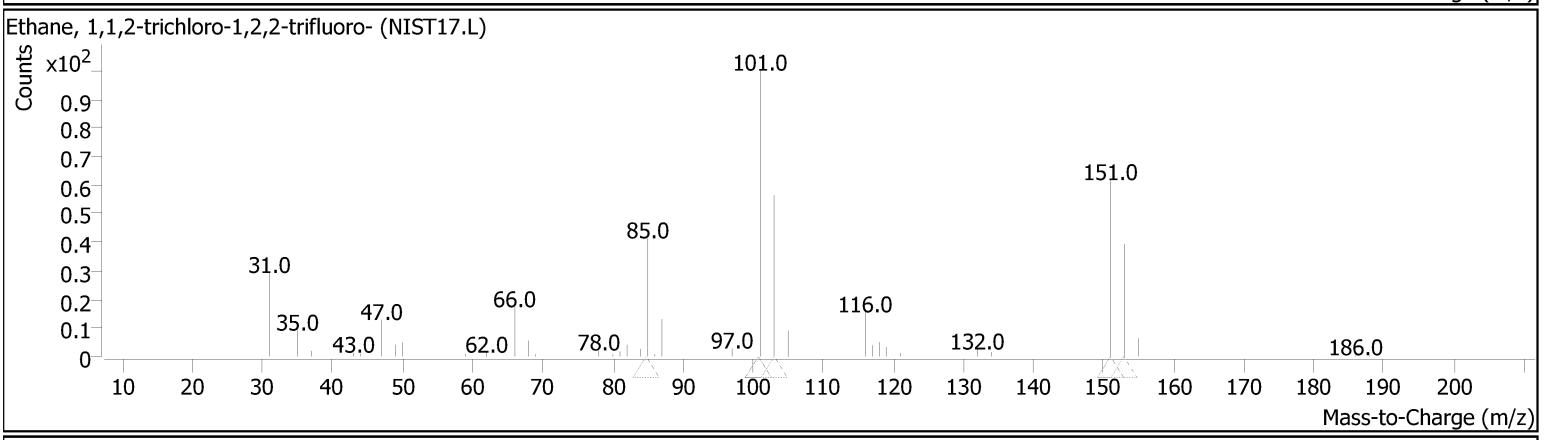



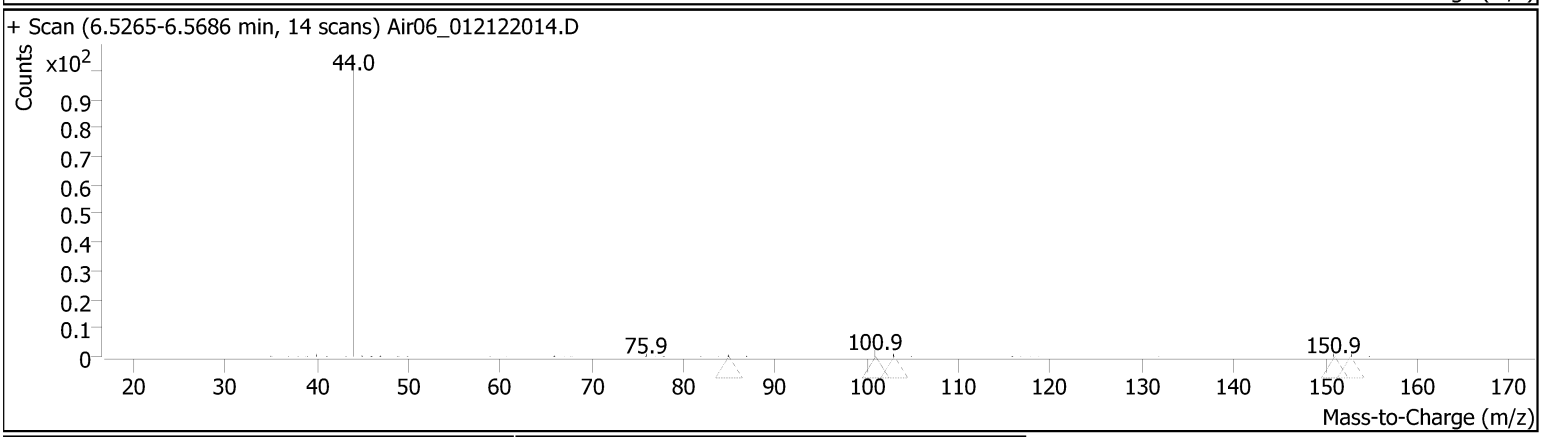



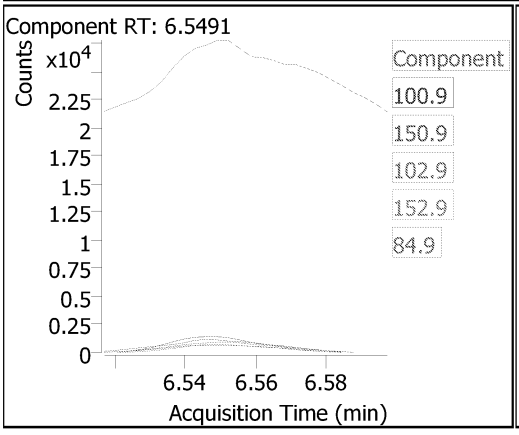



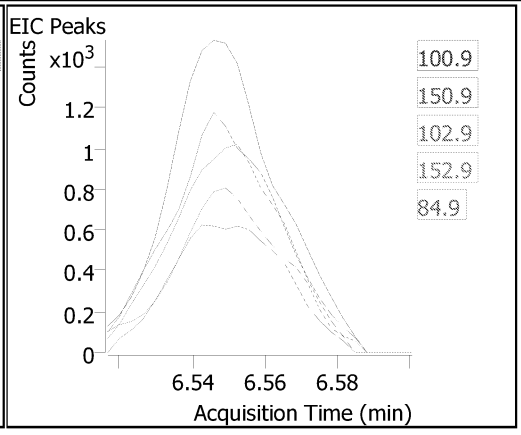
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.5491 | Ethane, 1,1,2-trichloro-1,2,2-trifluoro- | 17943.6 | 91.3 | 76-13-1 | C2Cl3F3 | 0.07056 |

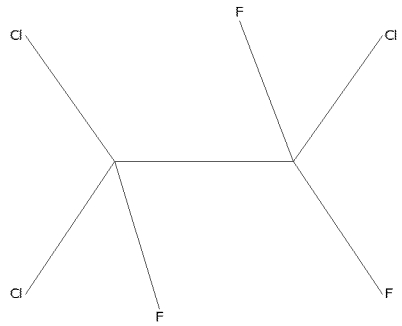


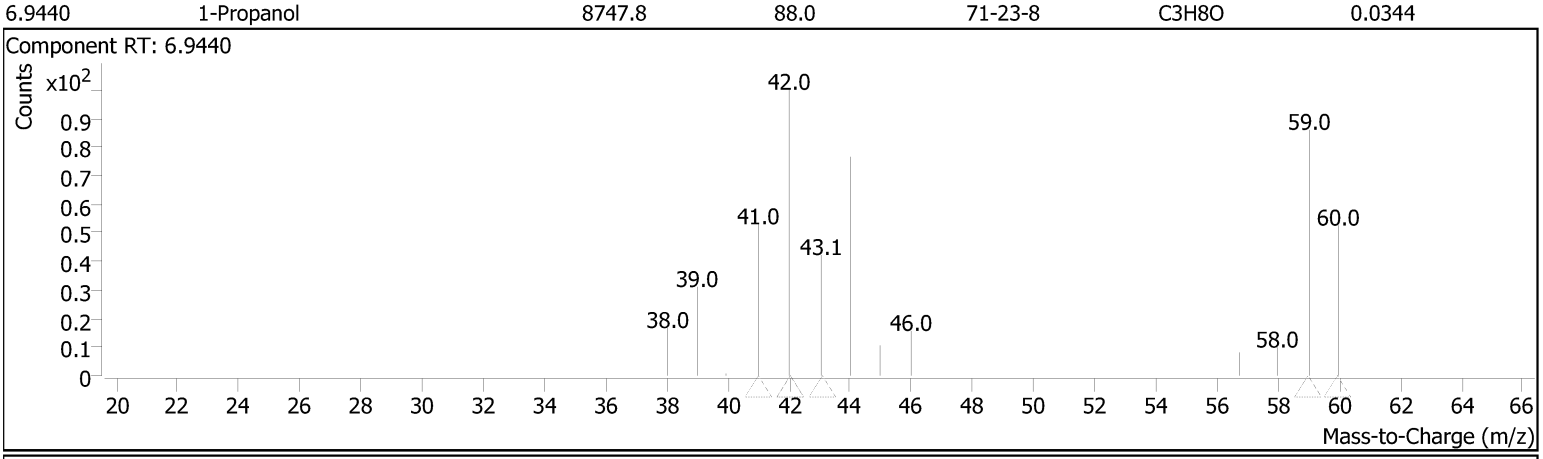



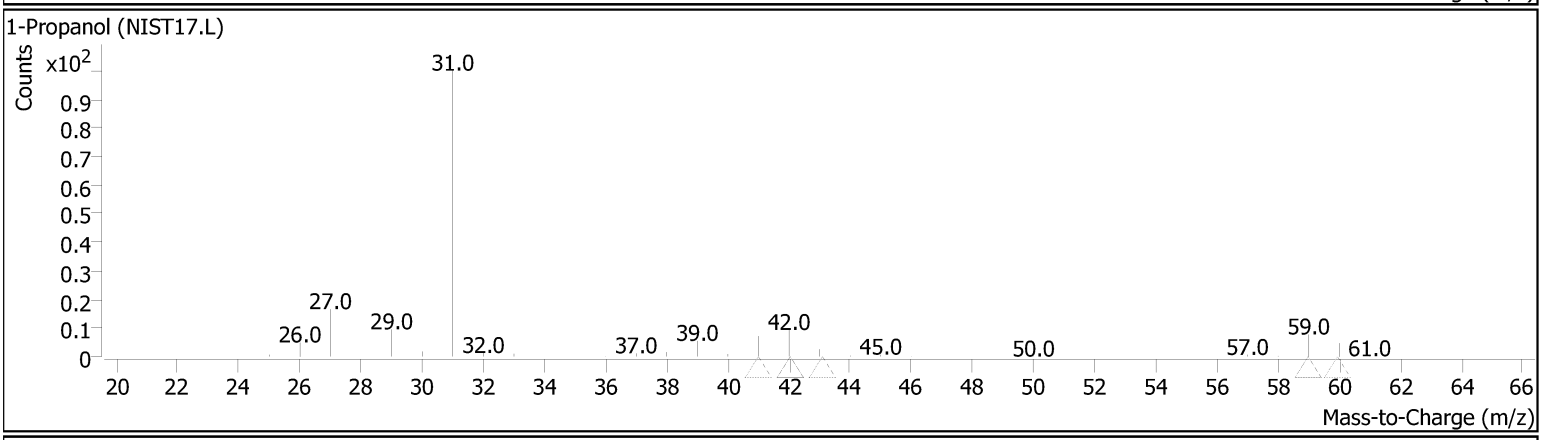



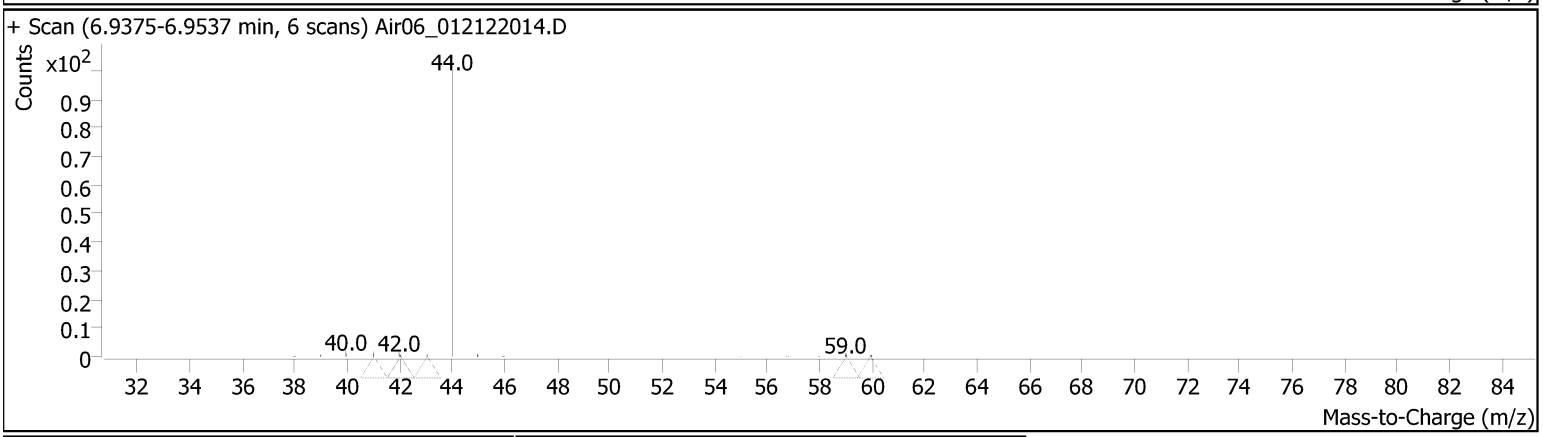



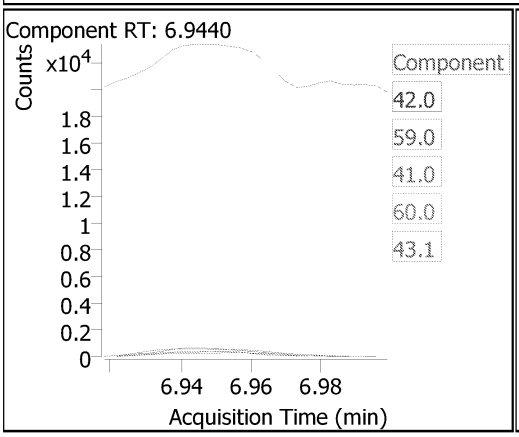



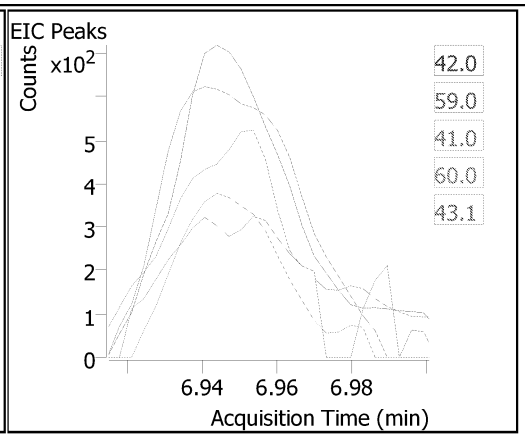
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.9440 | 1-Propanol | 8747.8 | 88.0 | 71-23-8 | C3H8O | 0.0344 |



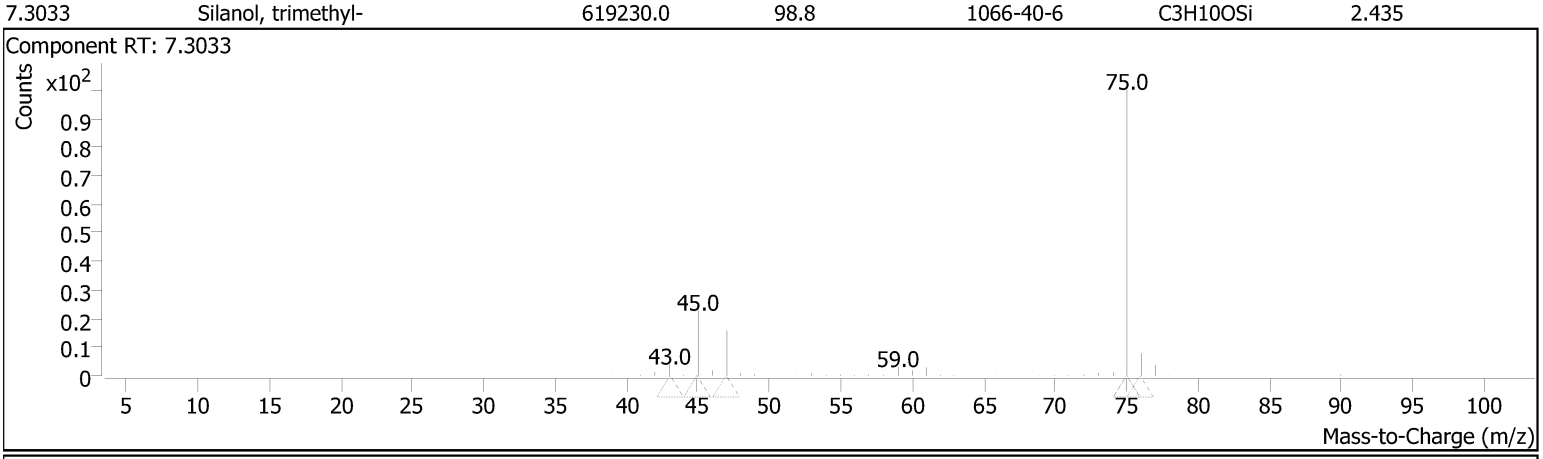



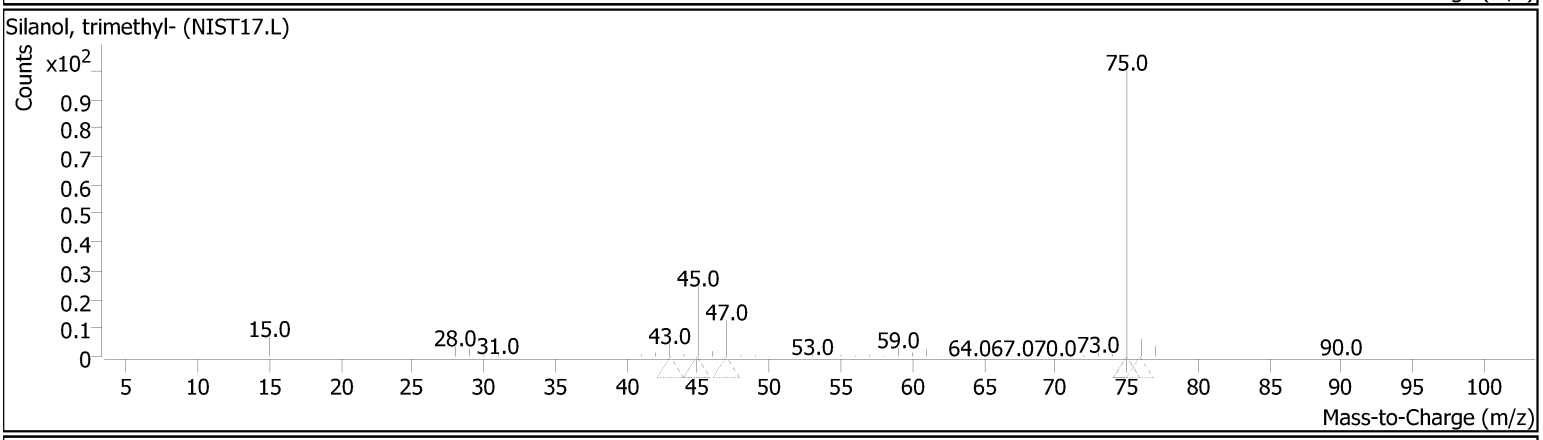



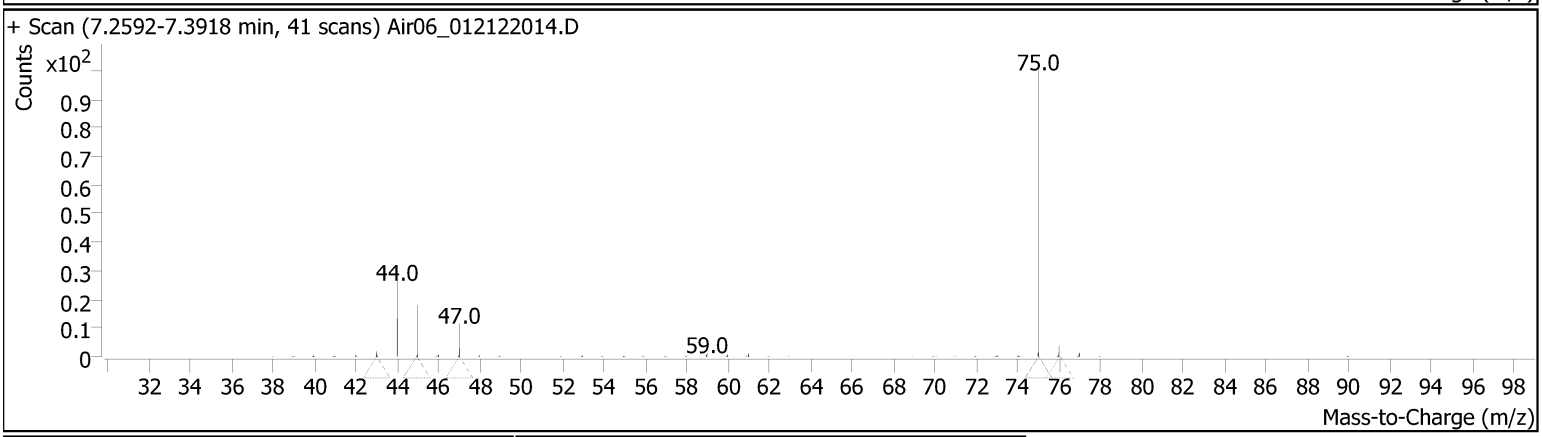



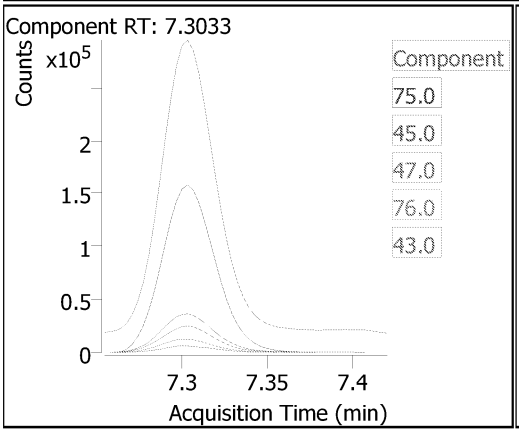


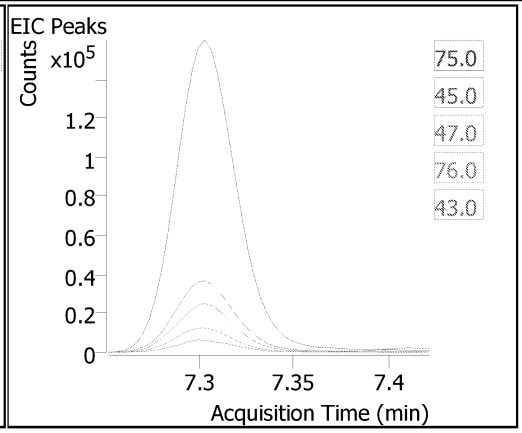

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.3033 | Silanol, trimethyl- | 619230.0 | 98.8 | 1066-40-6 | C3H10OSi | 2.435 |

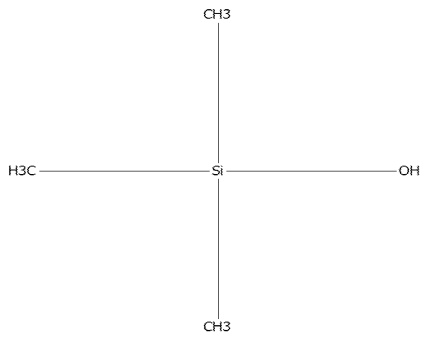


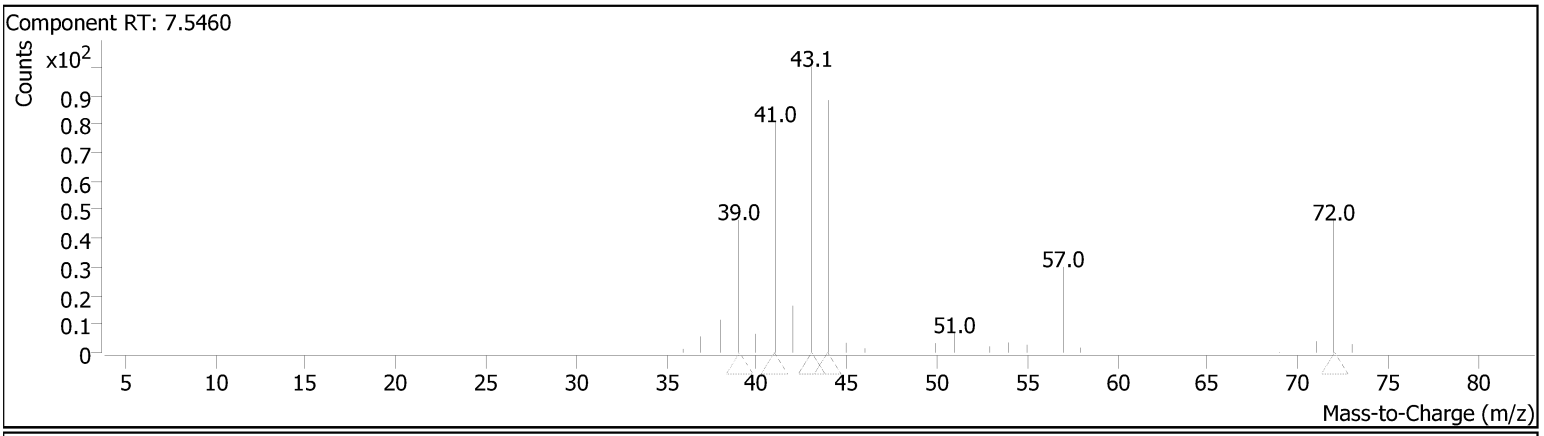



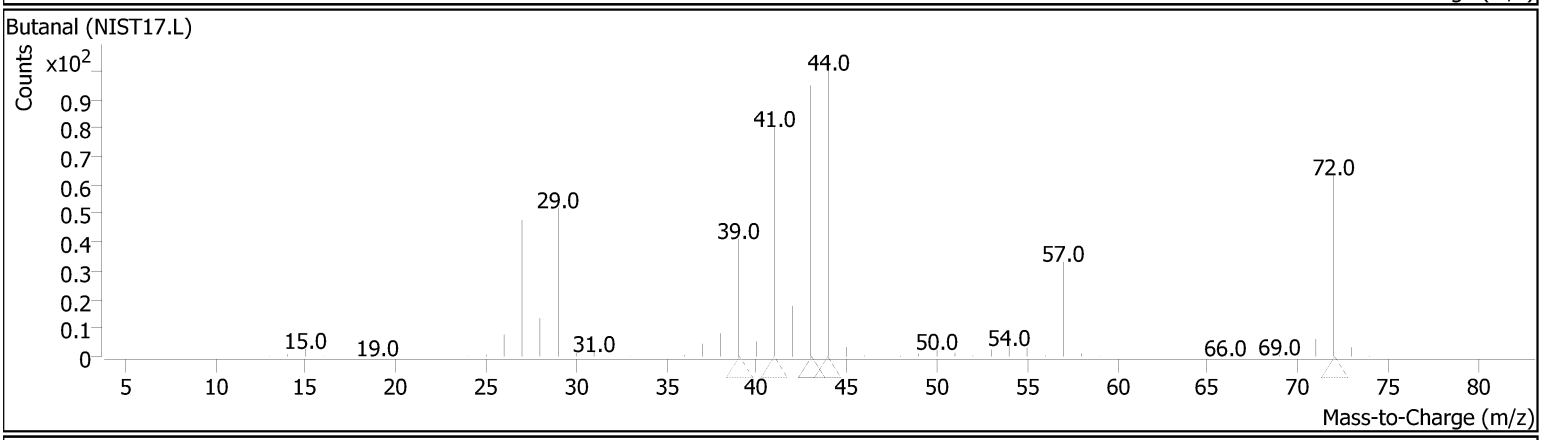



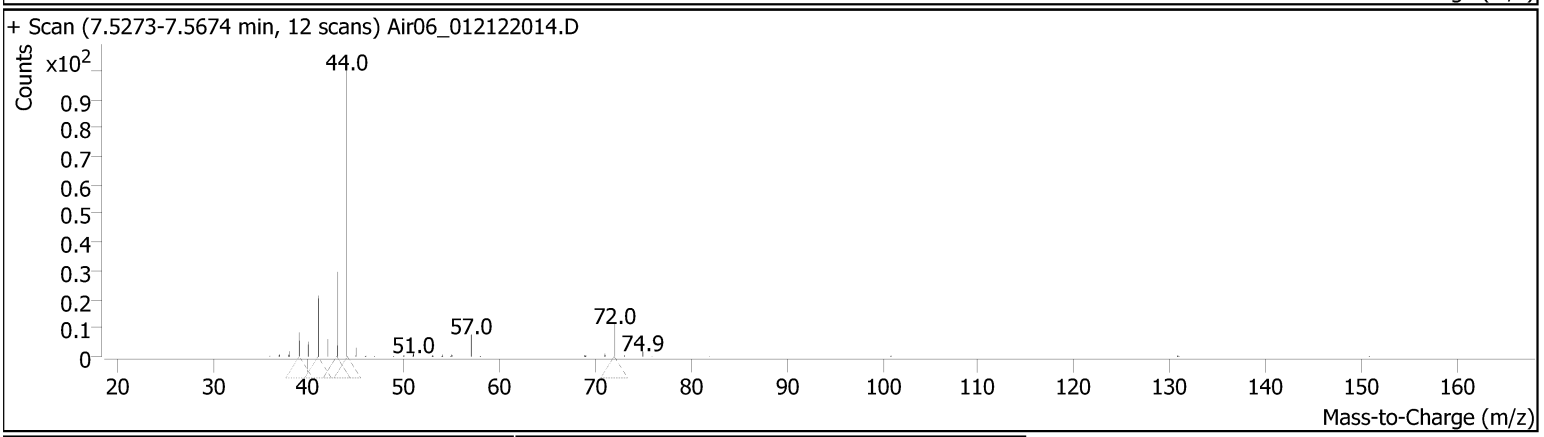



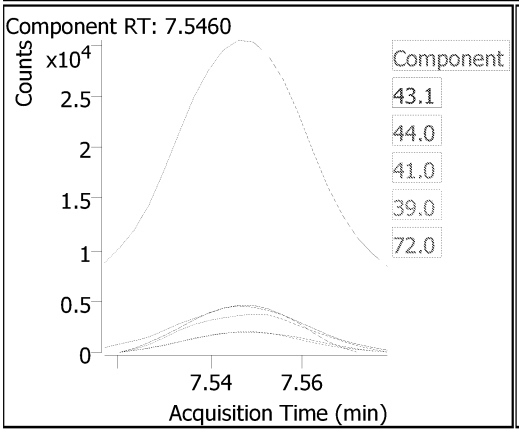



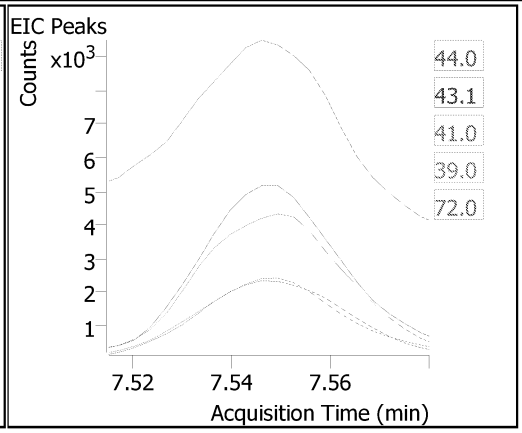
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.5460 | Butanal | 43407.2 | 97.1 | 123-72-8 | C4H8O | 0.1707 |

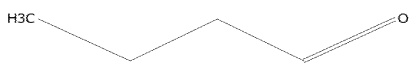


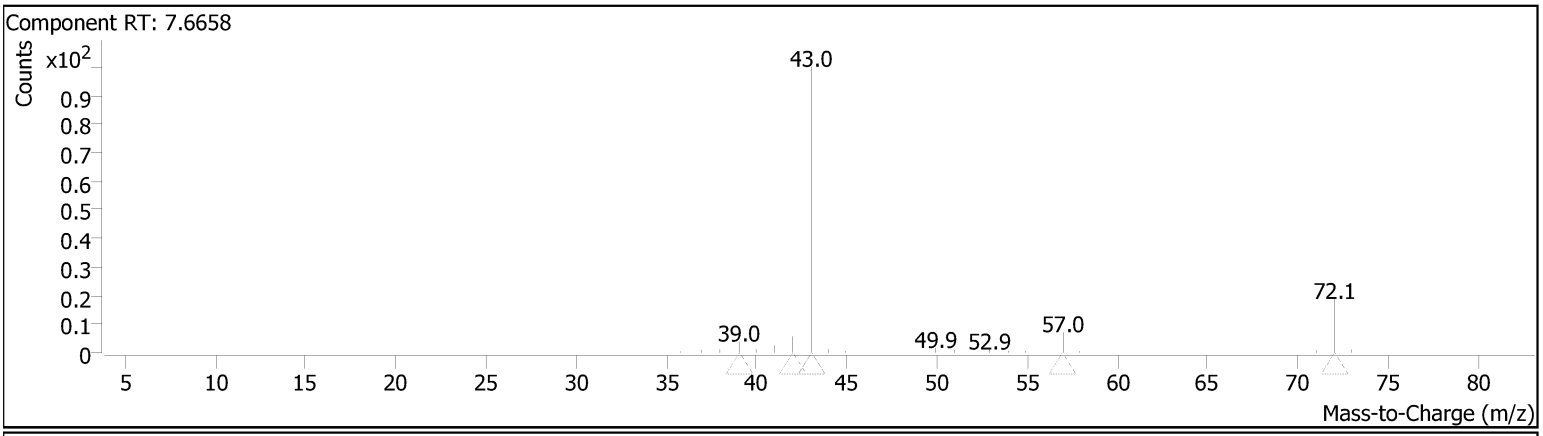



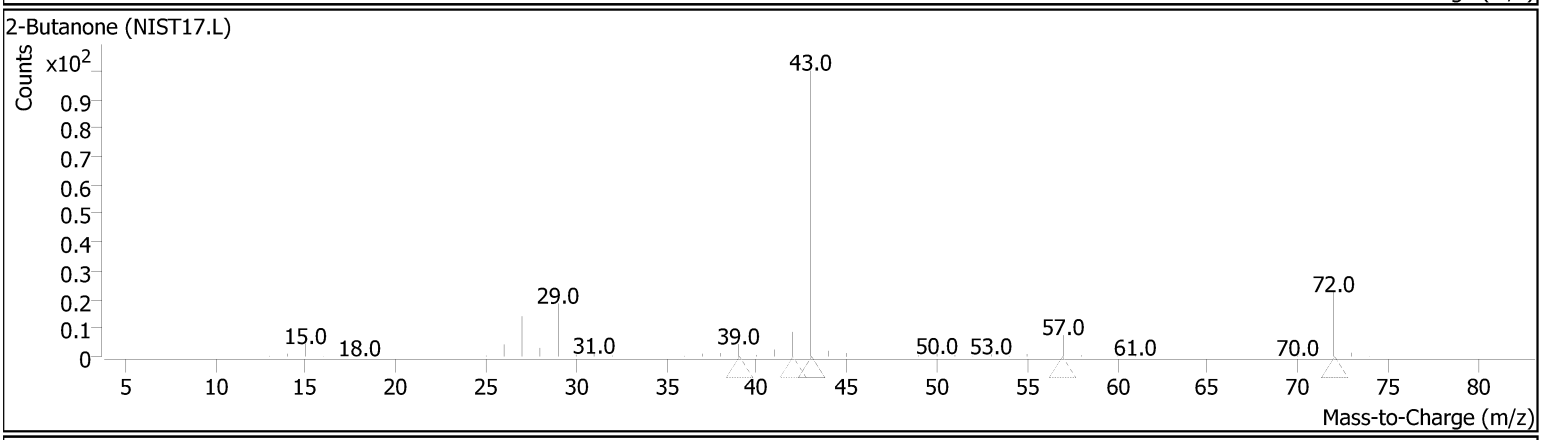



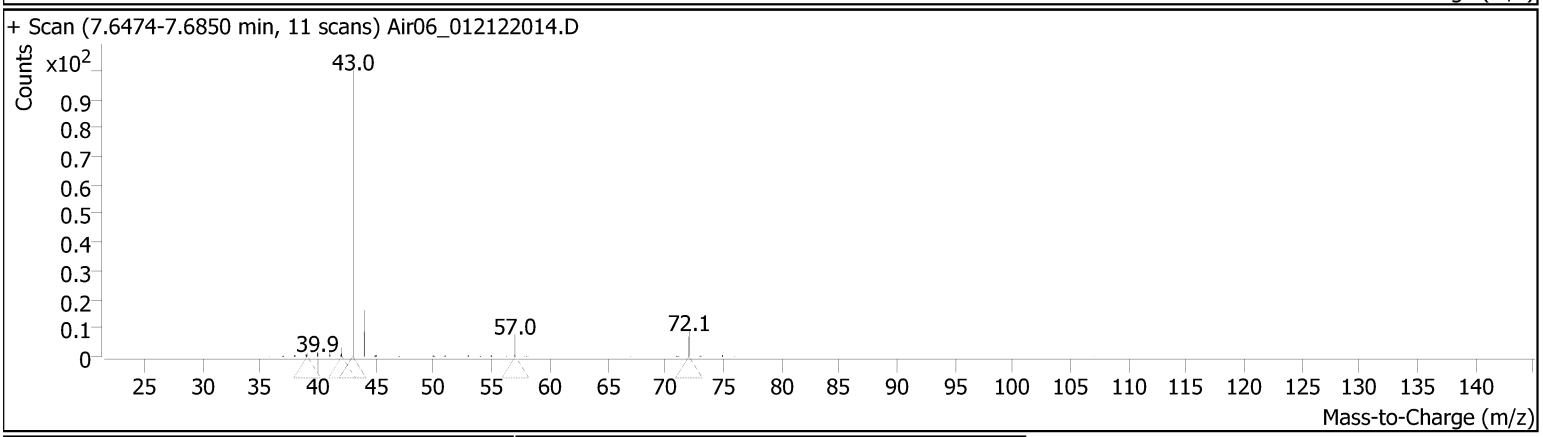



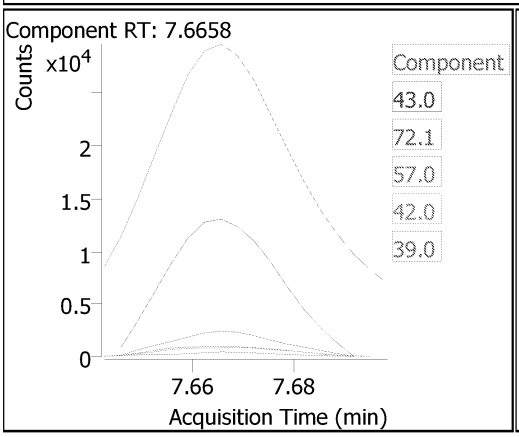



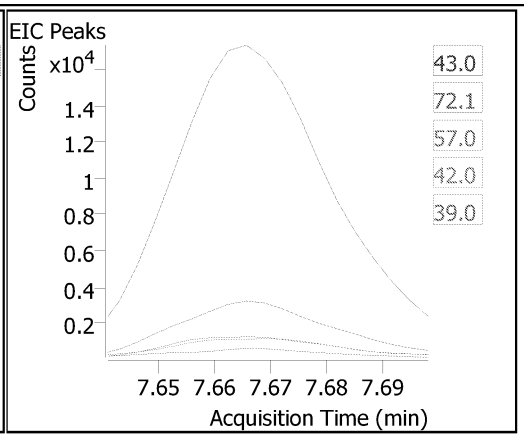
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.6658 | 2-Butanone | 38365.2 | 97.2 | 78-93-3 | C4H8O | 0.1509 |

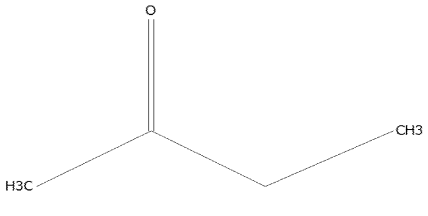


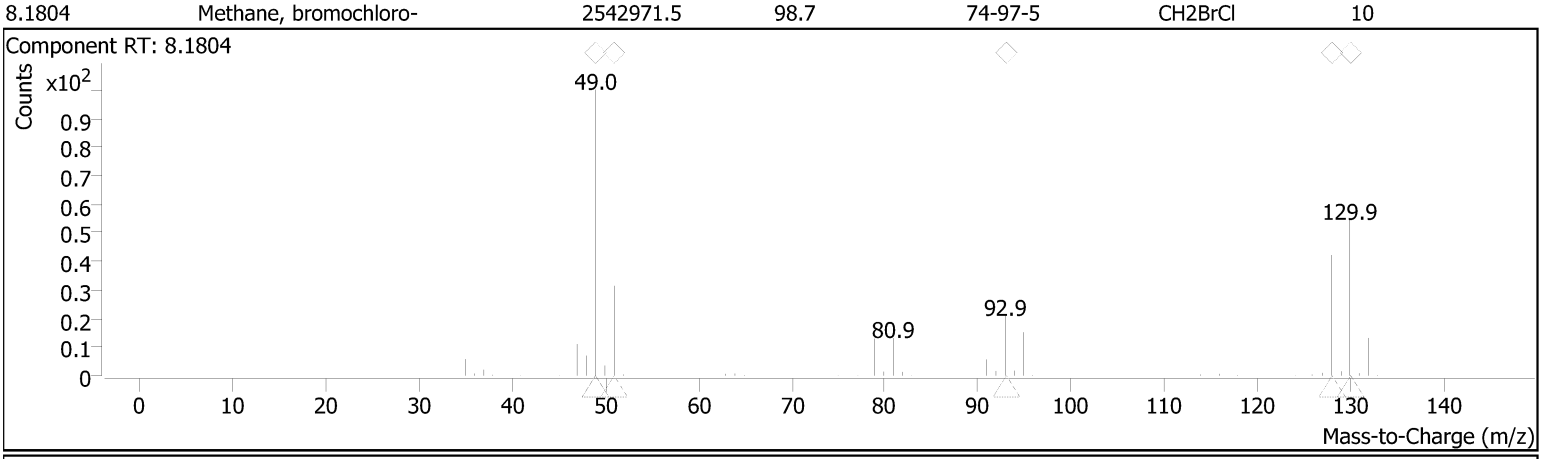



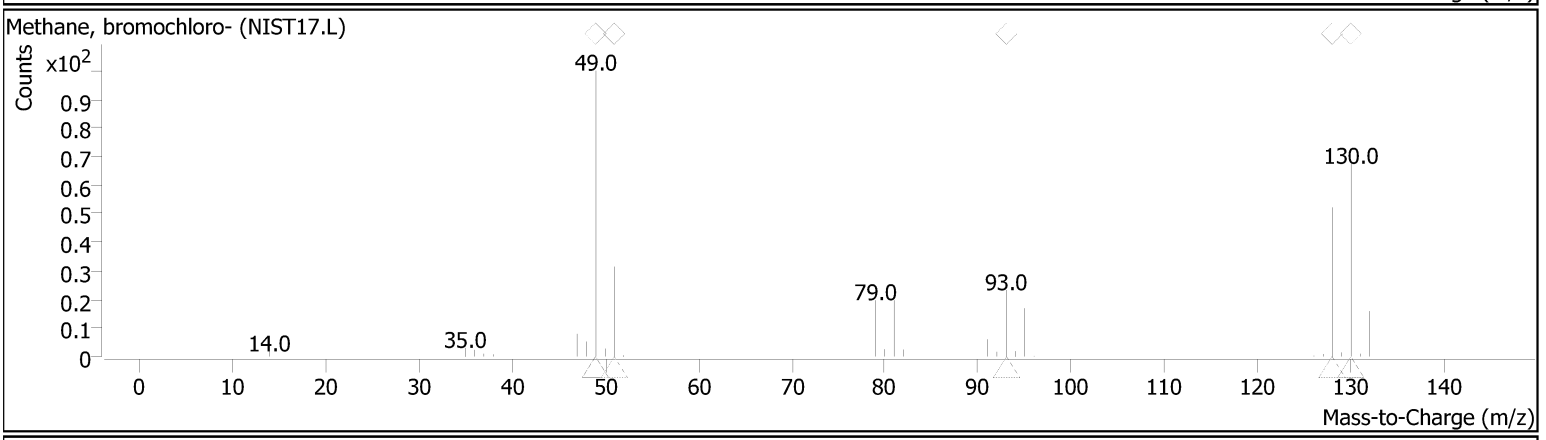



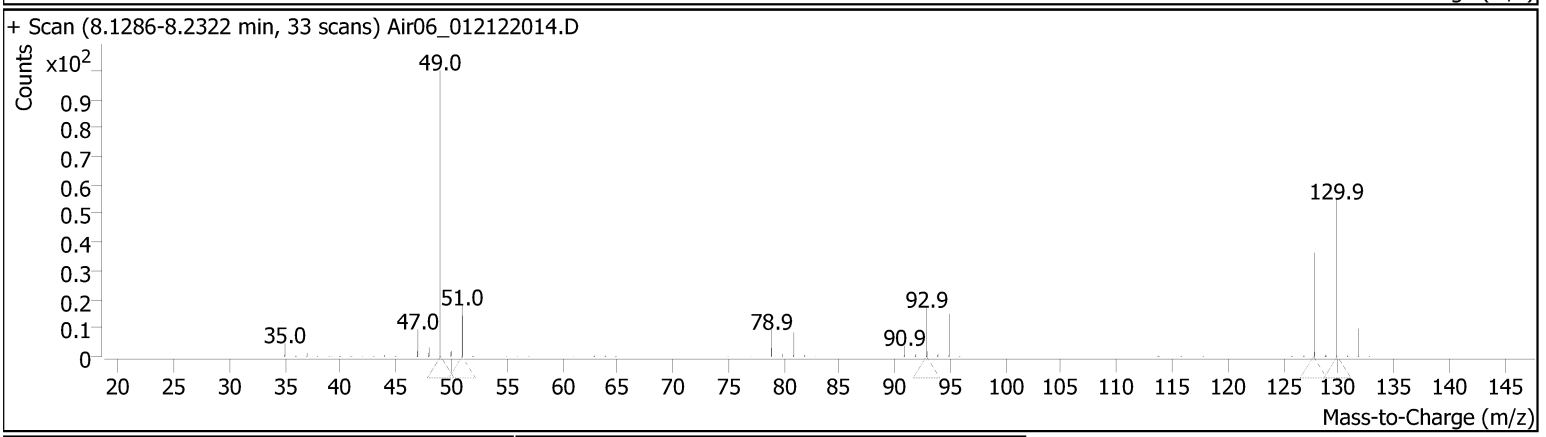



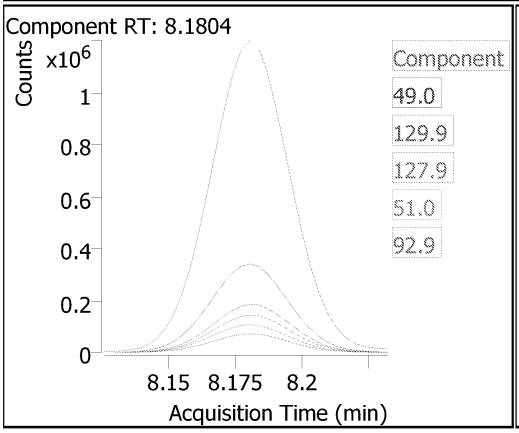



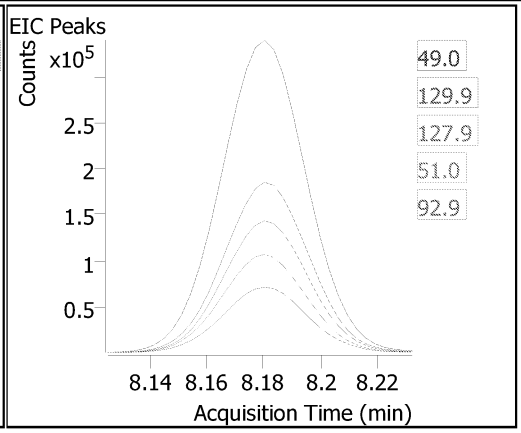
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.1804 | Methane, bromochloro- | 2542971.5 | 98.7 | 74-97-5 | CH2BrCl | 10 |

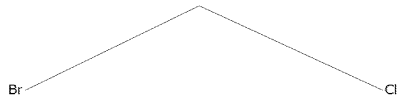


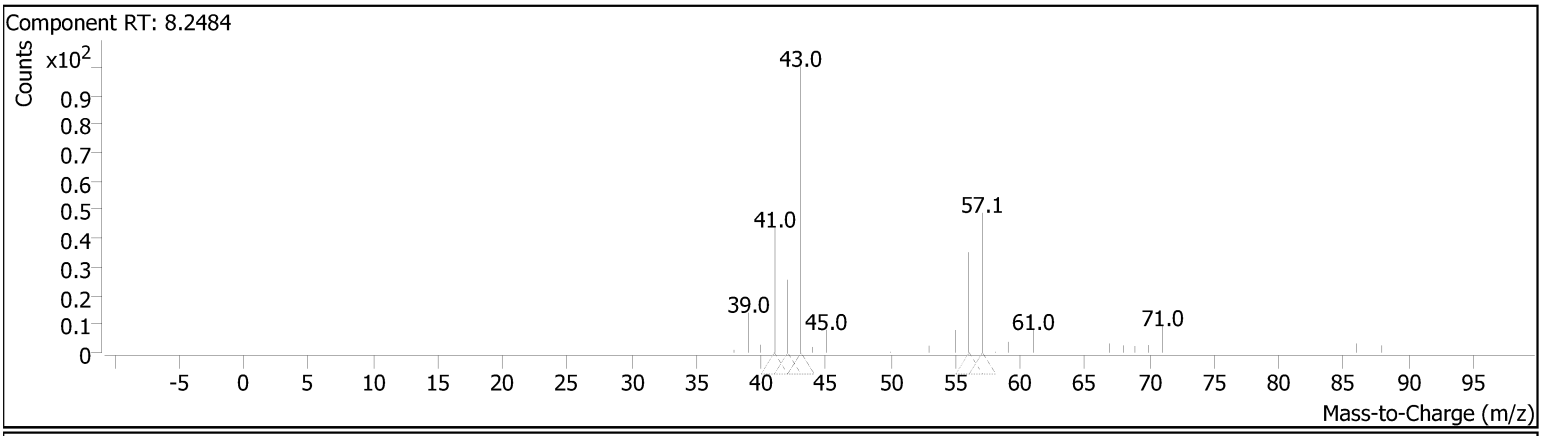



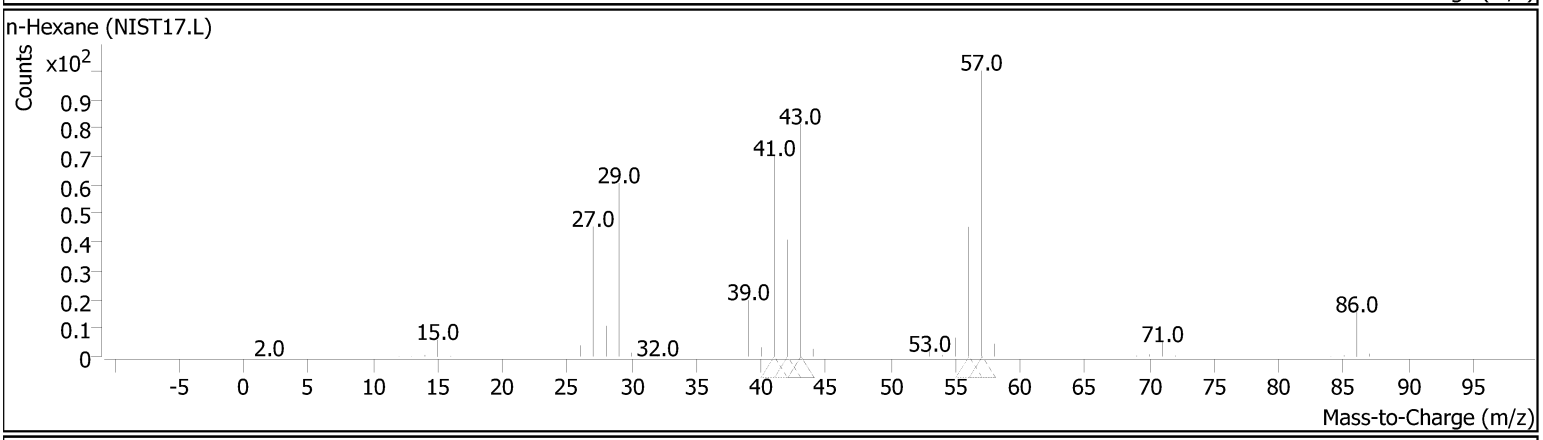



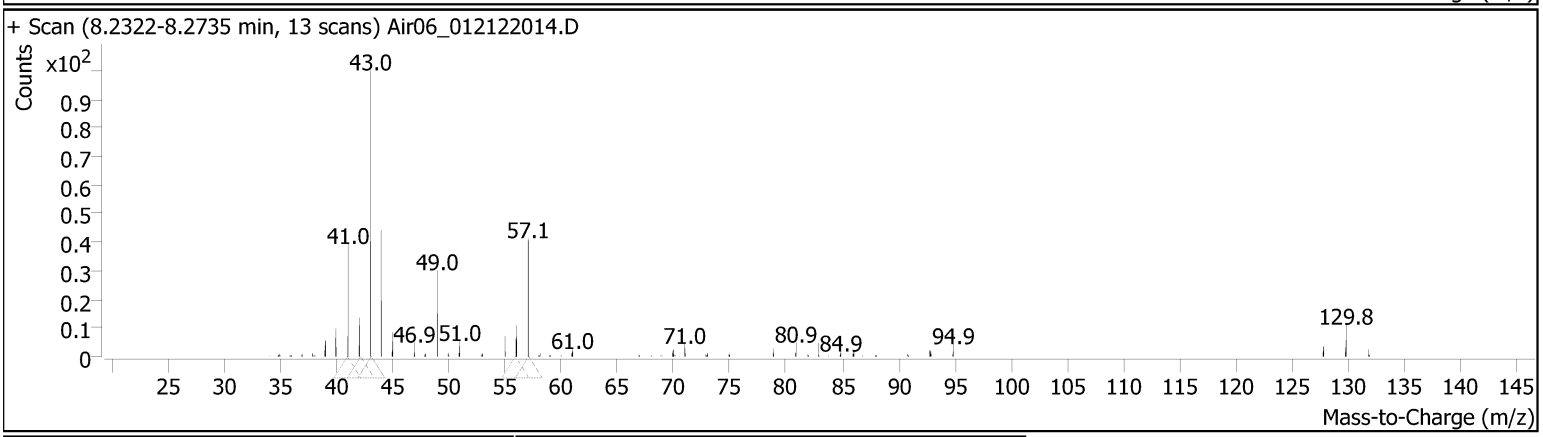



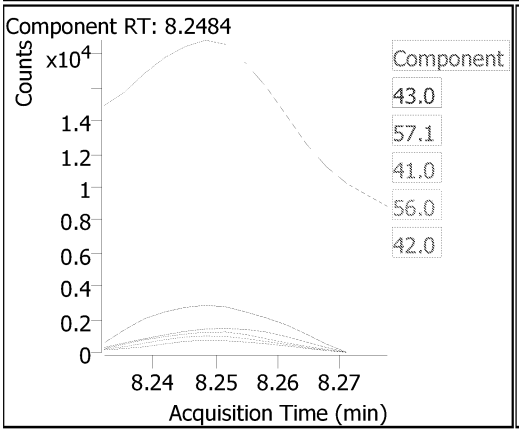



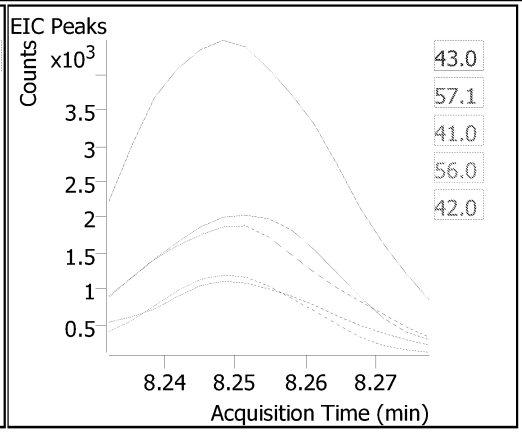
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.2484 | n-Hexane | 33131.5 | 83.7 | 110-54-3 | C6H14 | 0.1303 |



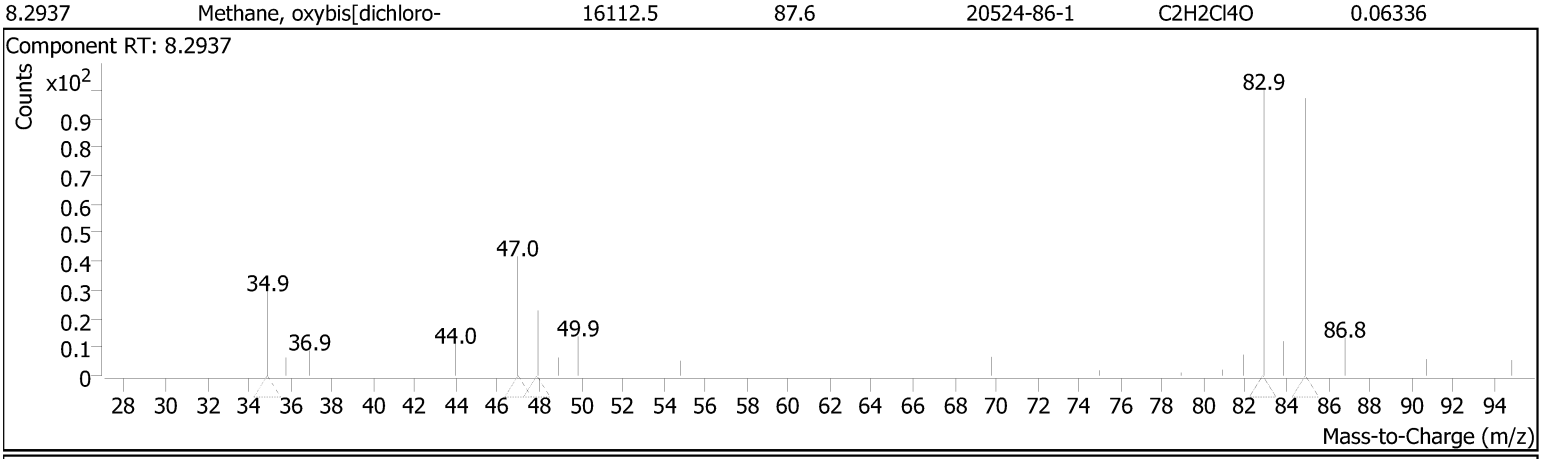



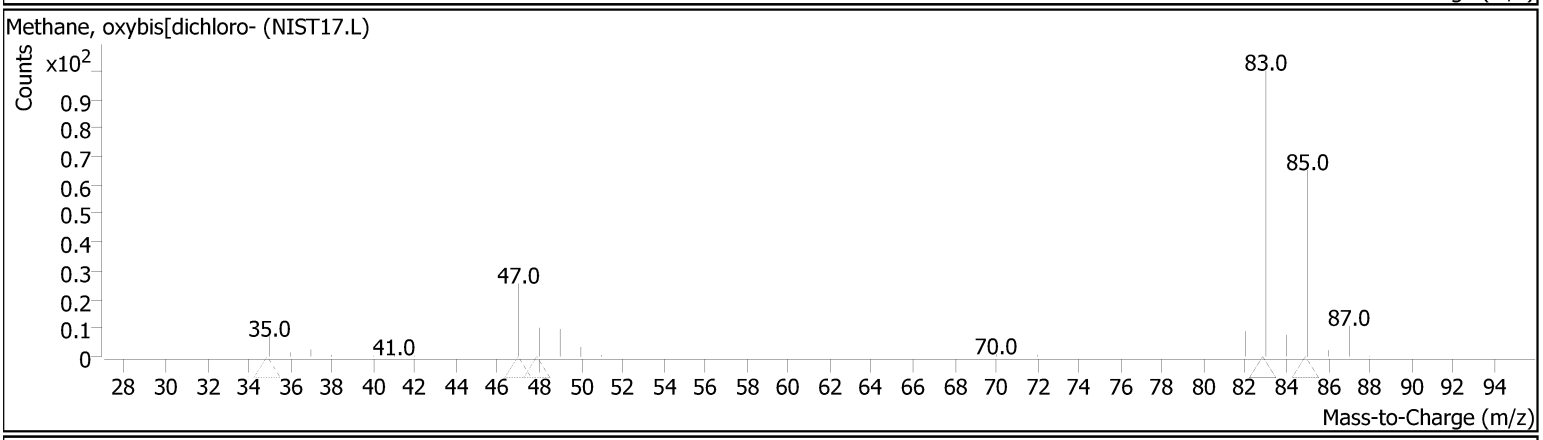



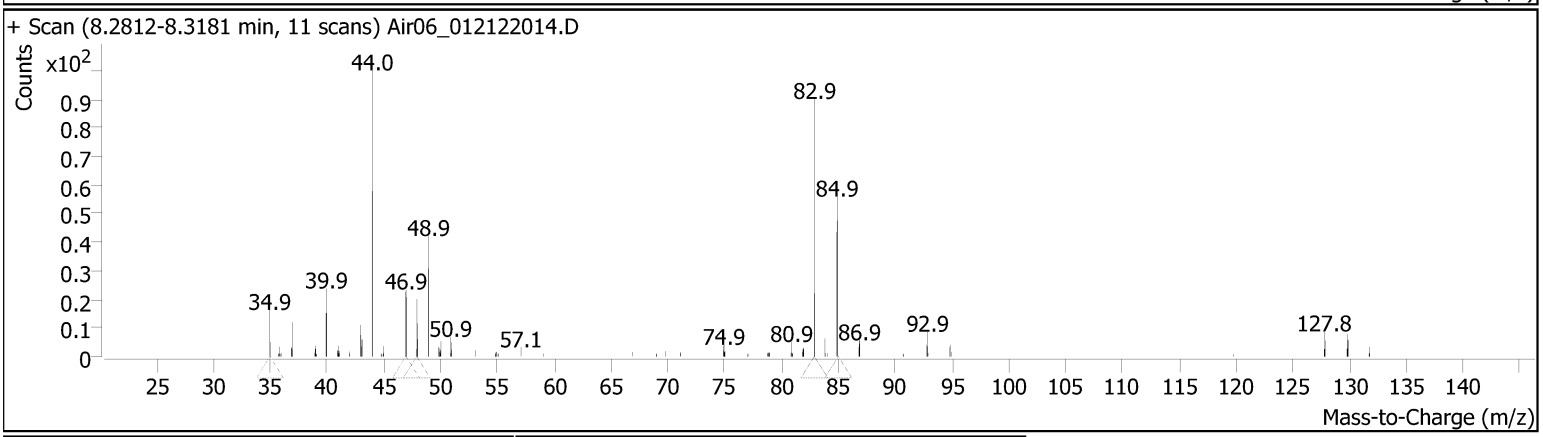



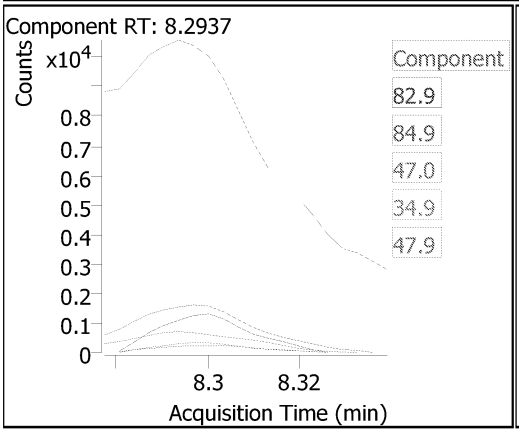


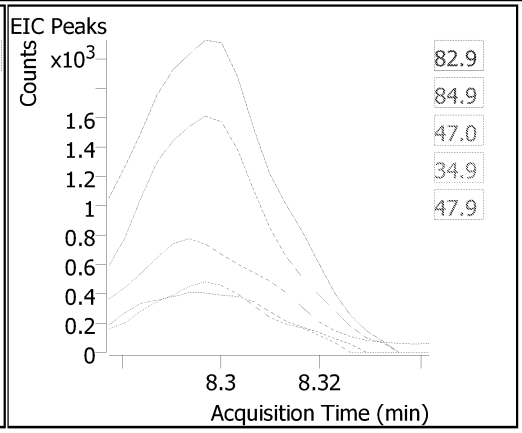

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.2937 | Methane, oxybis[dichloro- | 16112.5 | 87.6 | 20524-86-1 | C2H2Cl4O | 0.06336 |

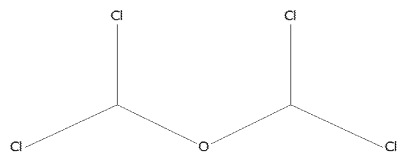


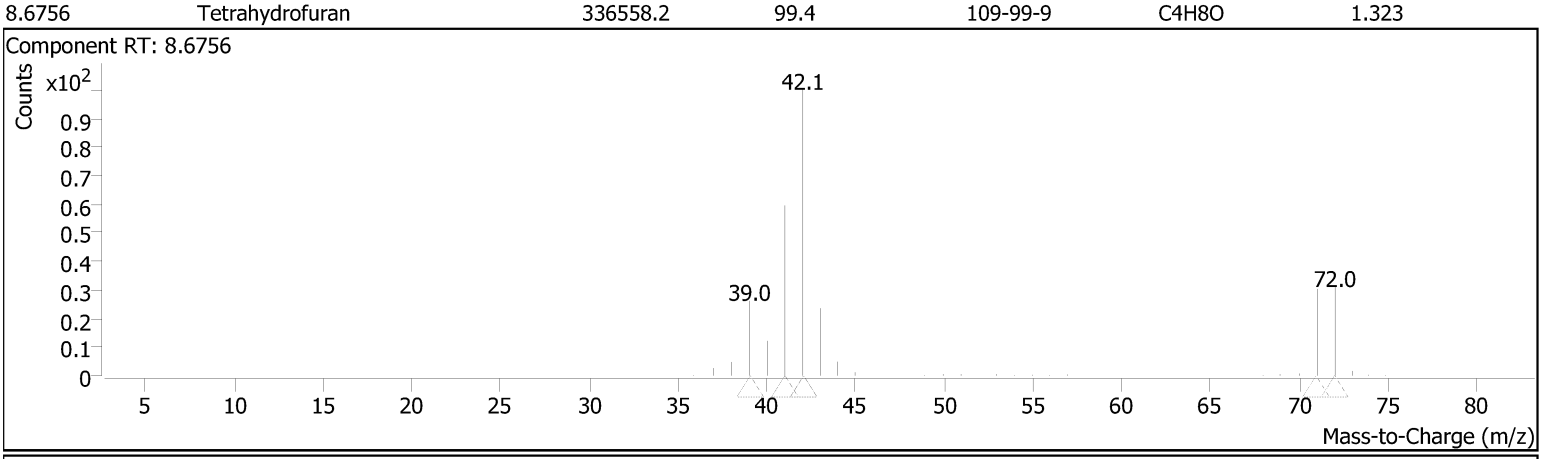



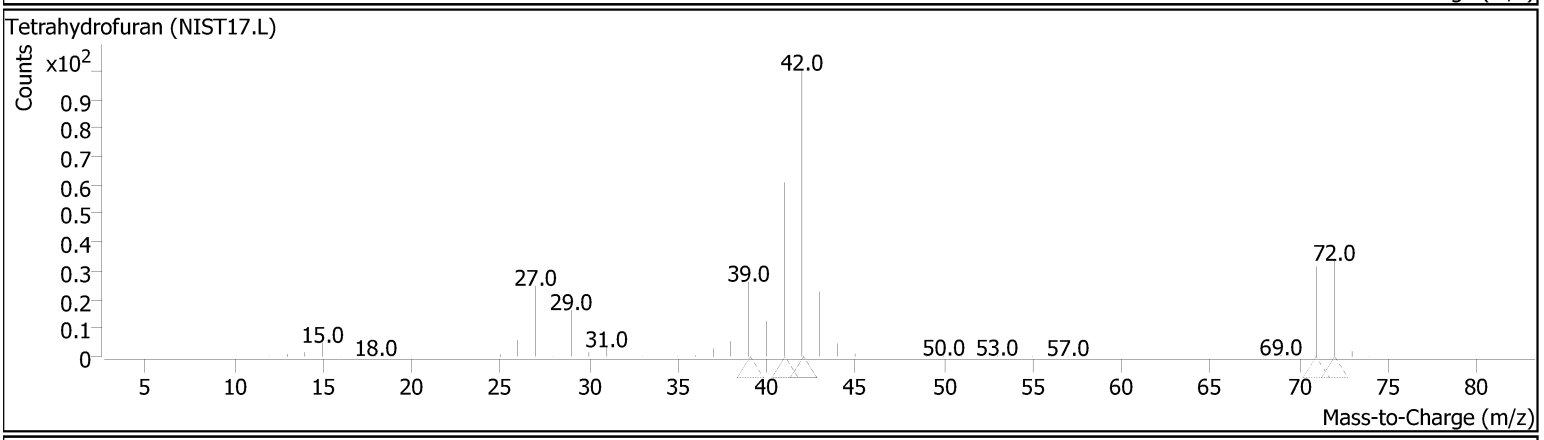



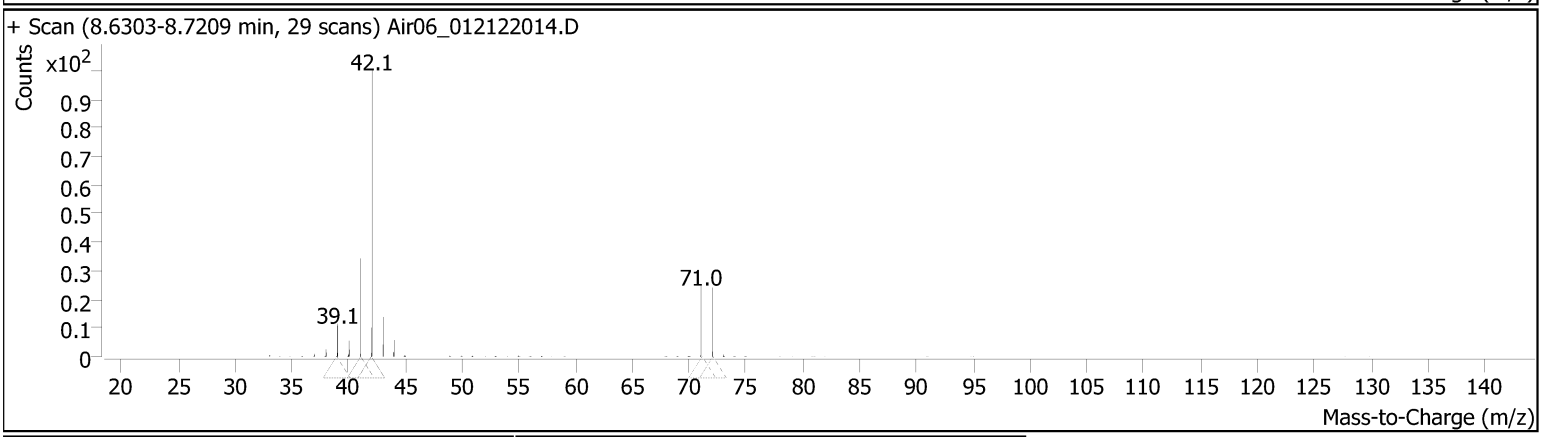



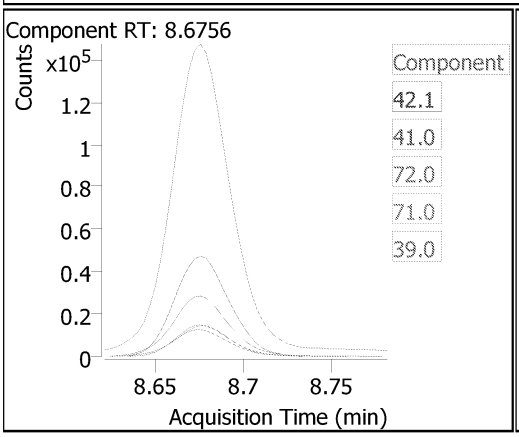



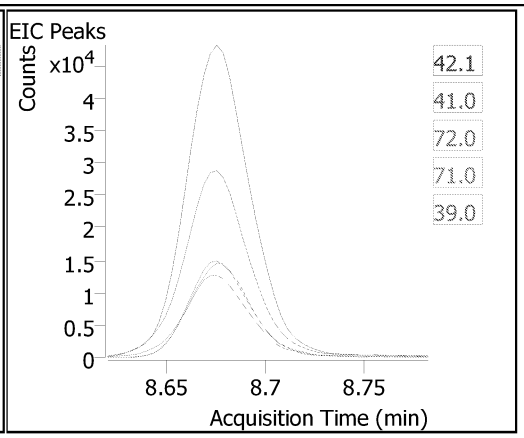
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.6756 | Tetrahydrofuran | 336558.2 | 99.4 | 109-99-9 | C4H8O | 1.323 |

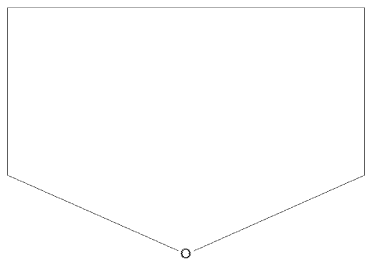


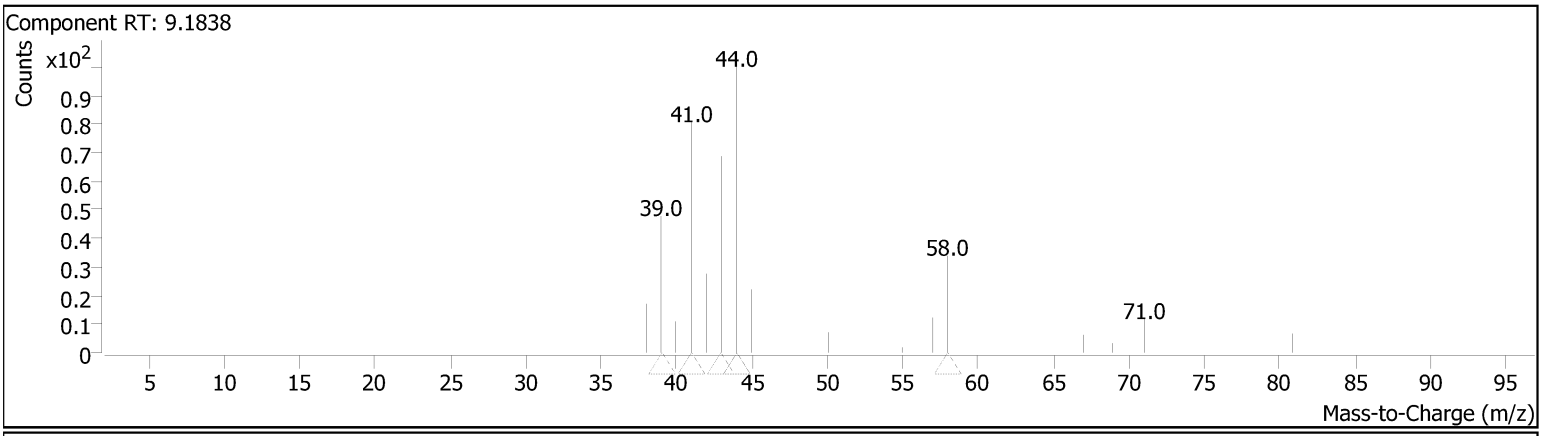



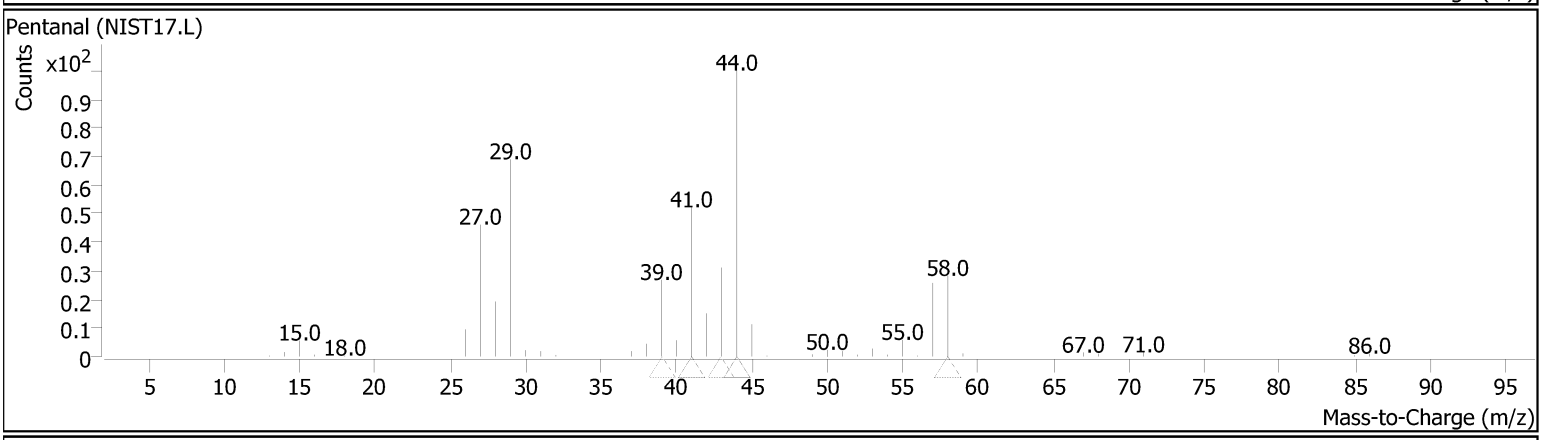



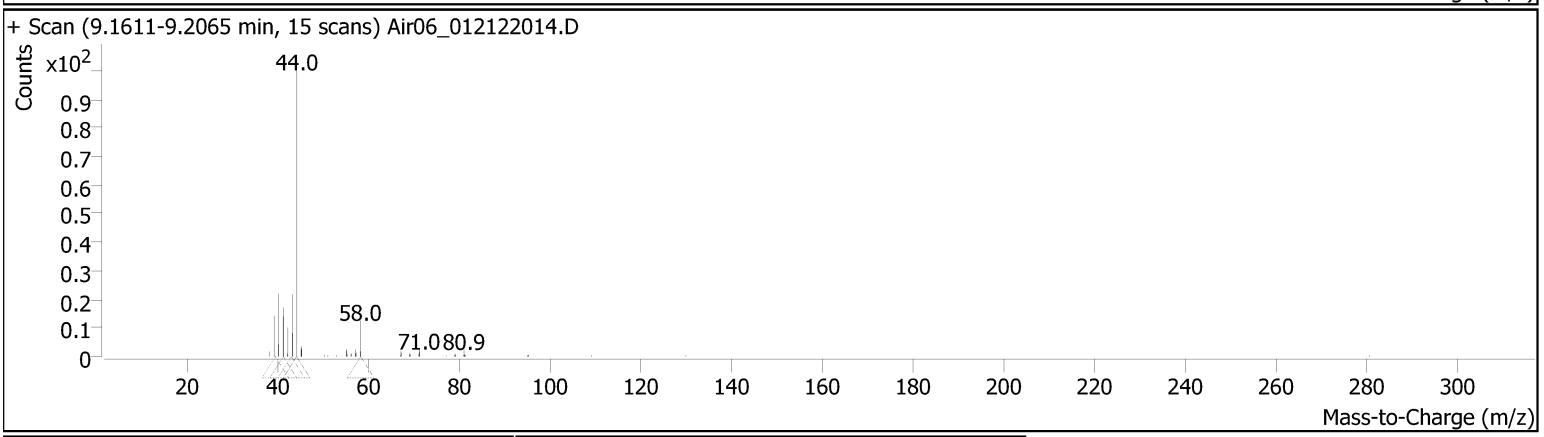



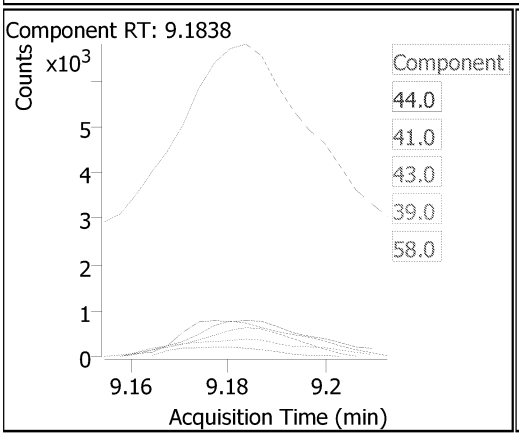



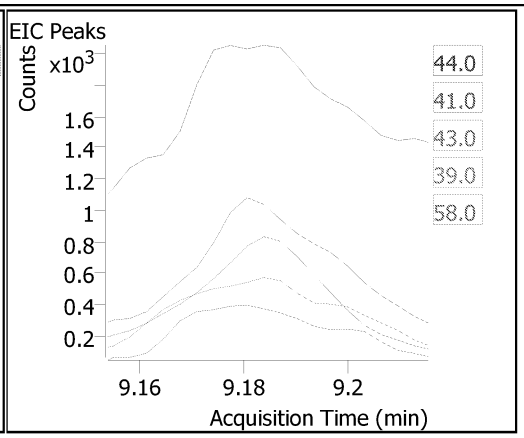
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.1838 | Pentanal | 7177.1 | 87.6 | 110-62-3 | C5H10O | 0.01735 |



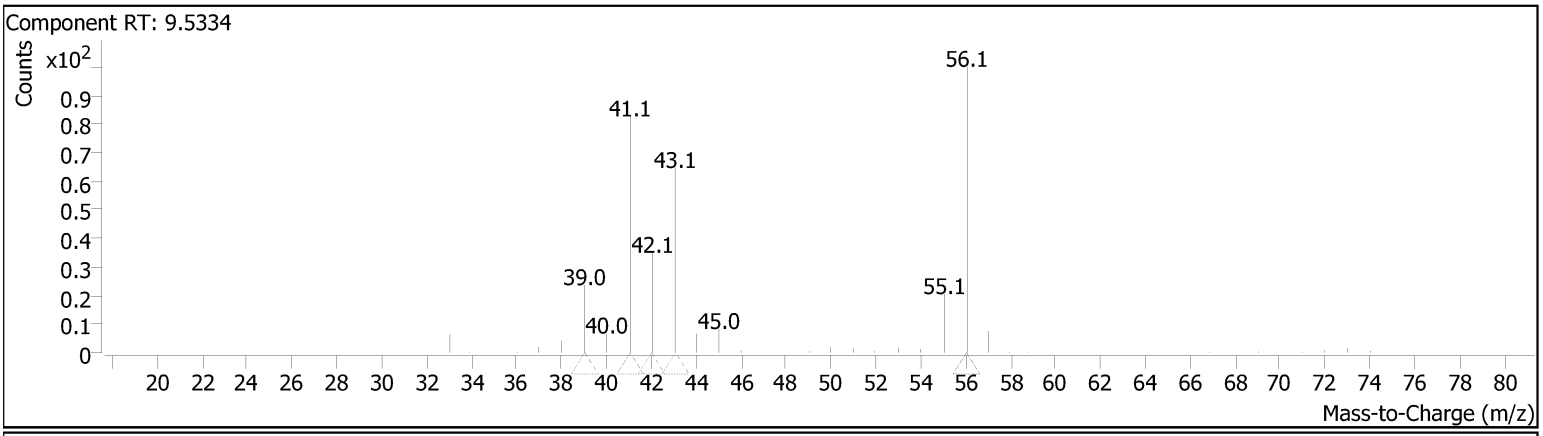



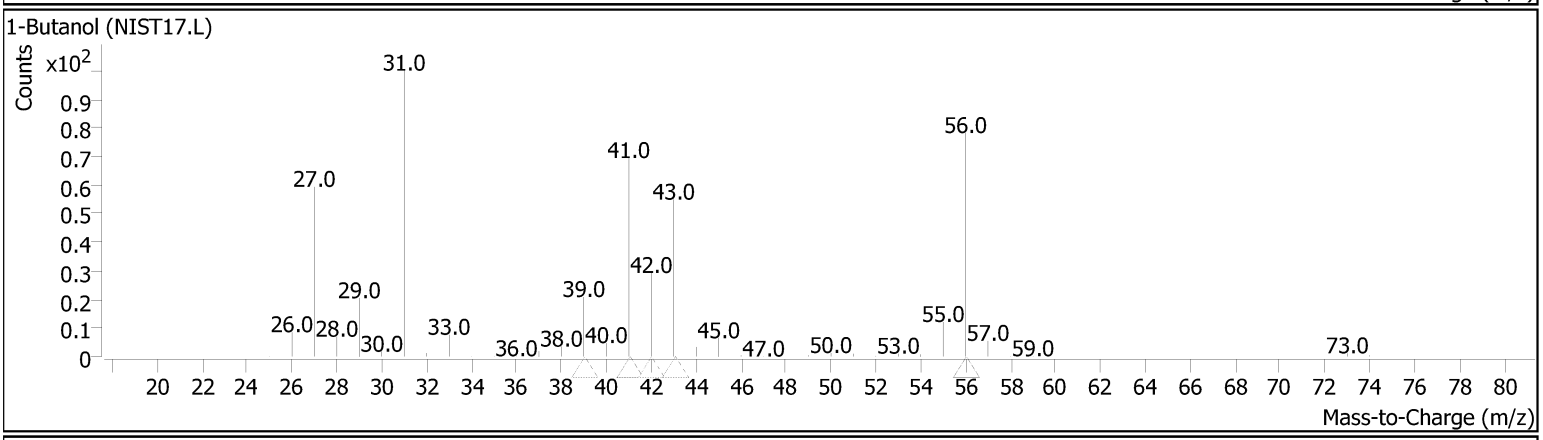



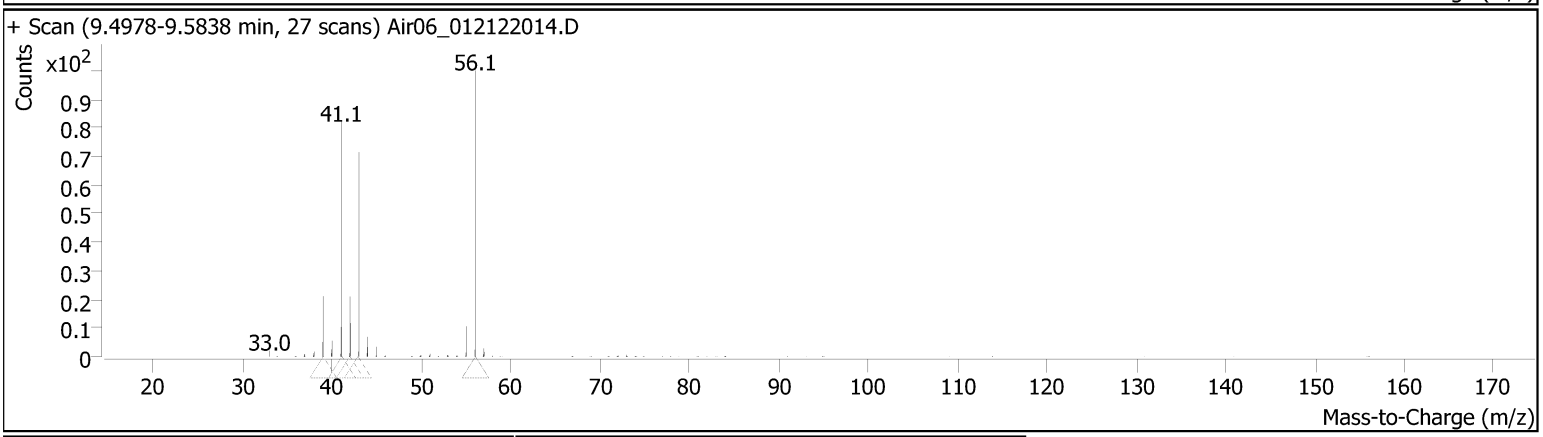



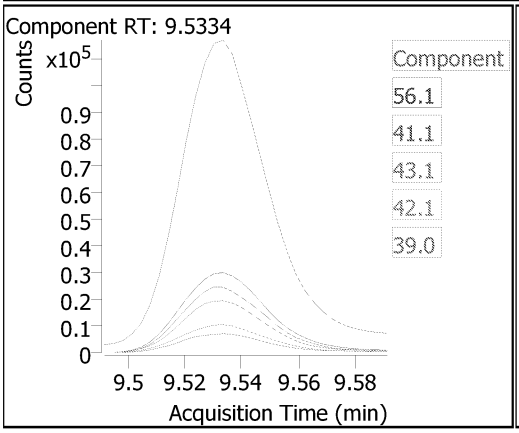


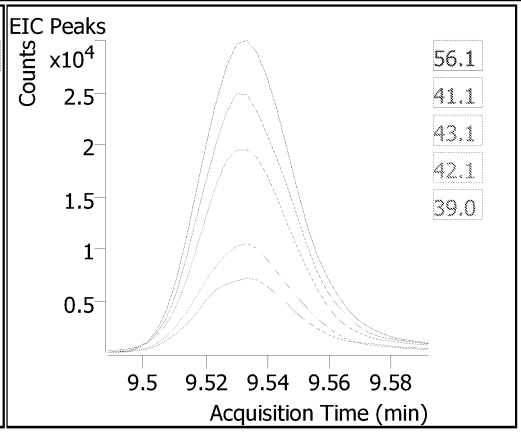

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.5334 | 1-Butanol | 248121.7 | 98.4 | 71-36-3 | C4H10O | 0.5999 |

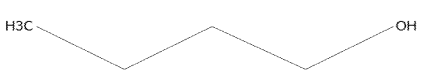


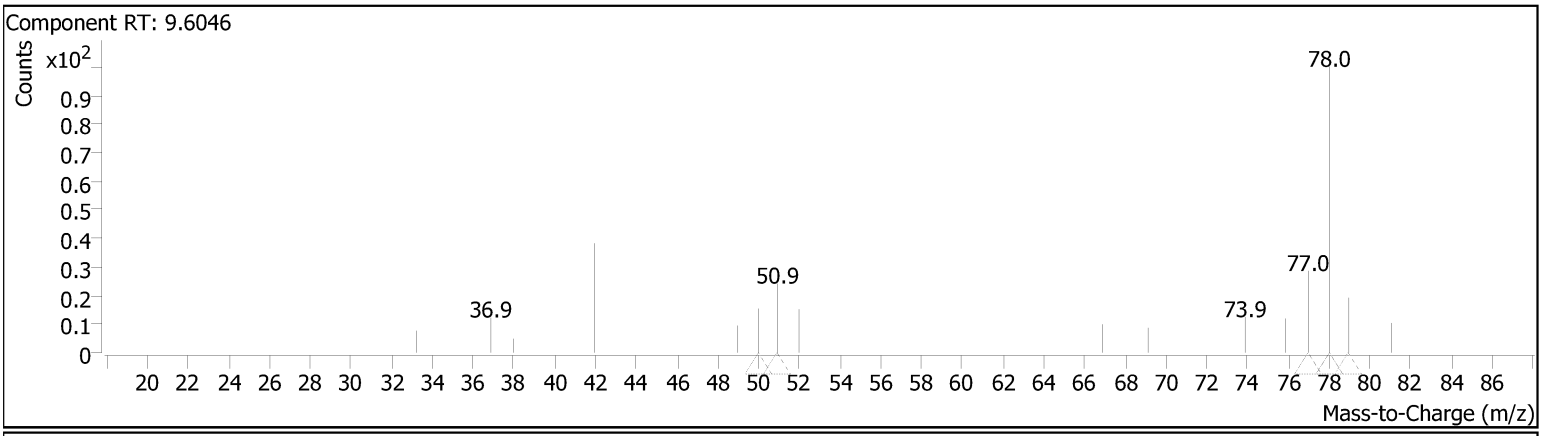



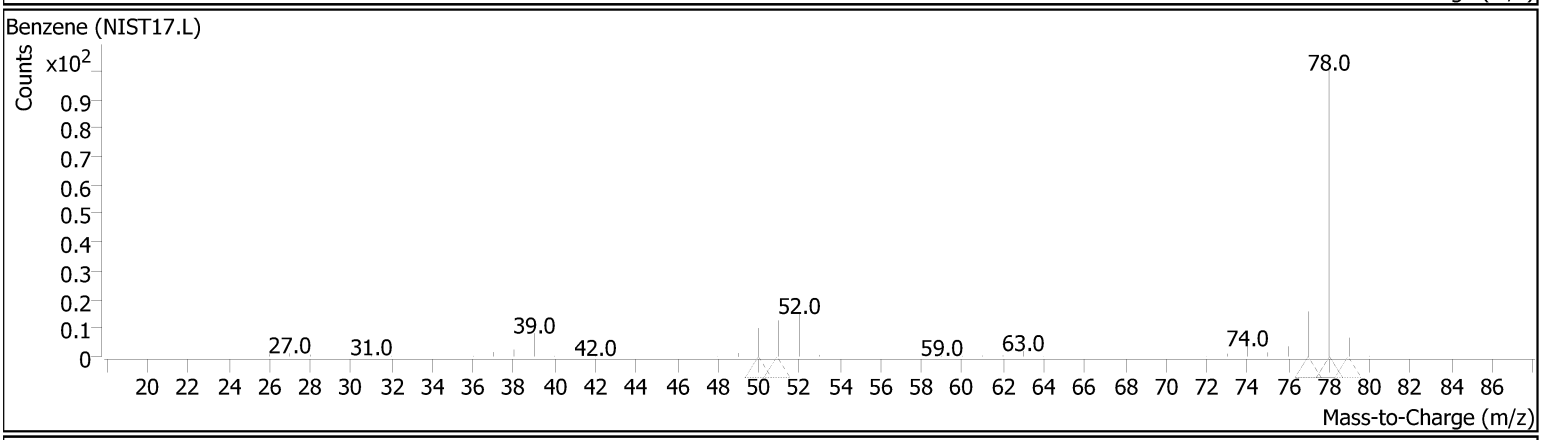



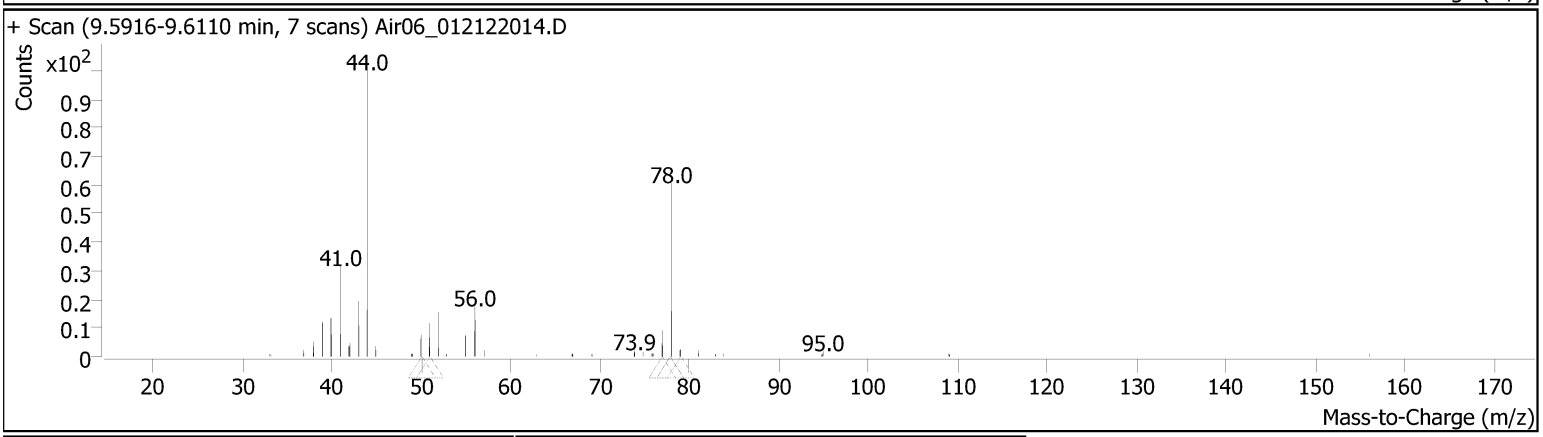



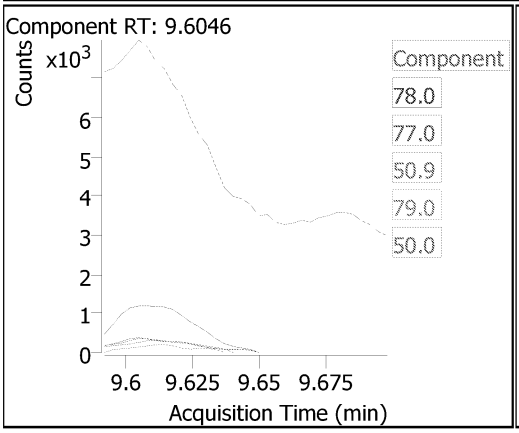



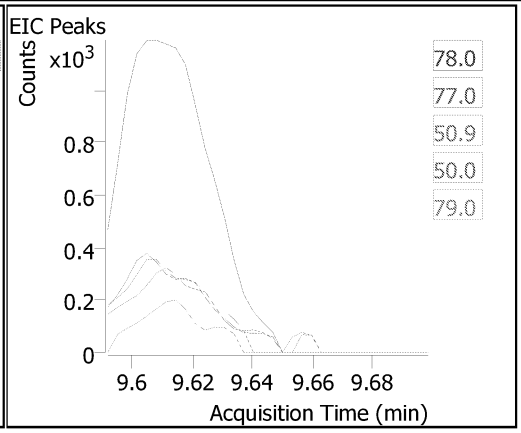
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.6046 | Benzene | 12981.0 | 71.3 | 71-43-2 | C6H6 | 0.03138 |

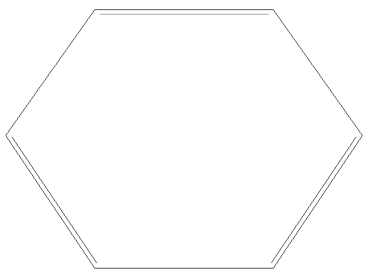


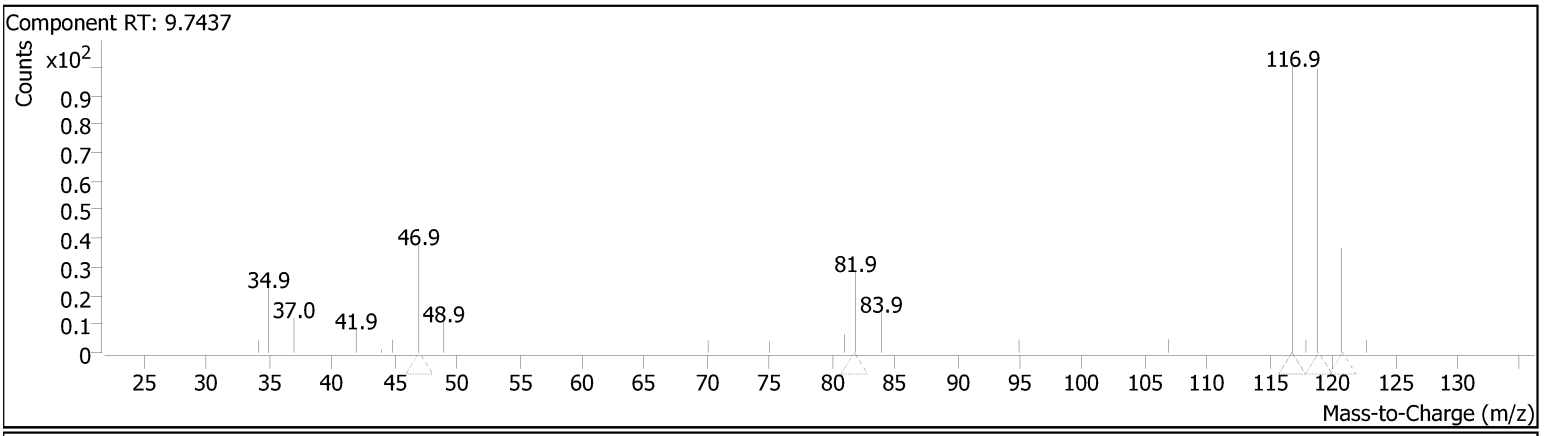



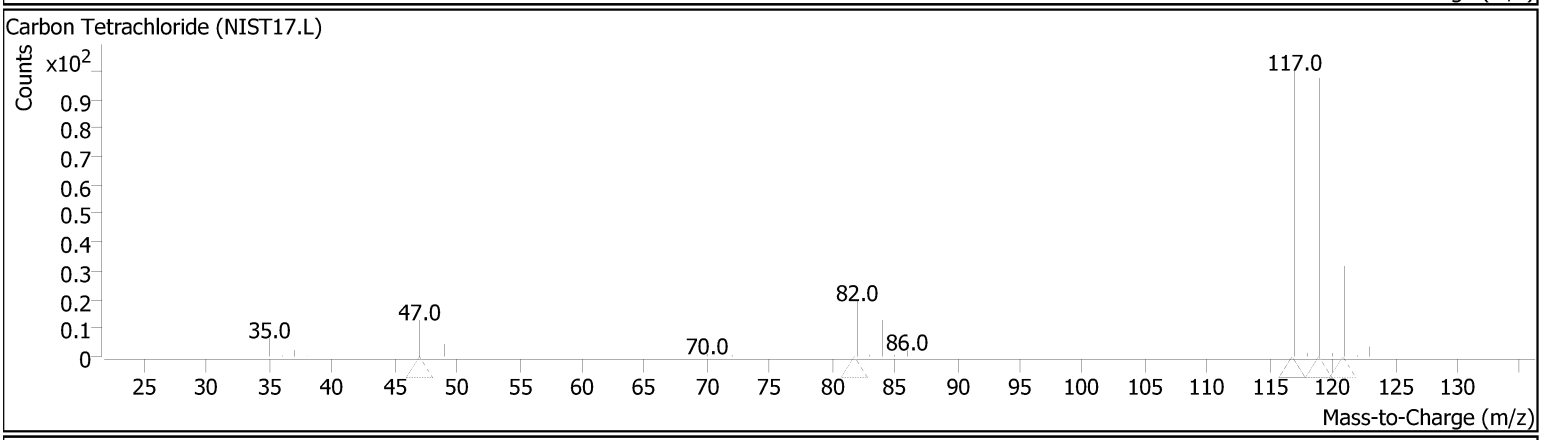



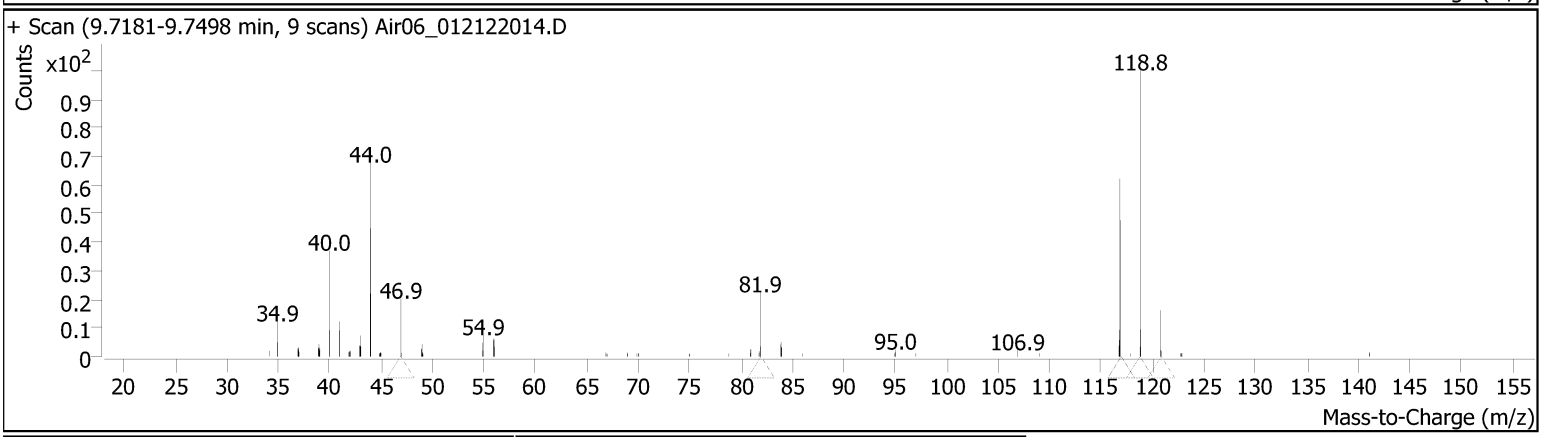



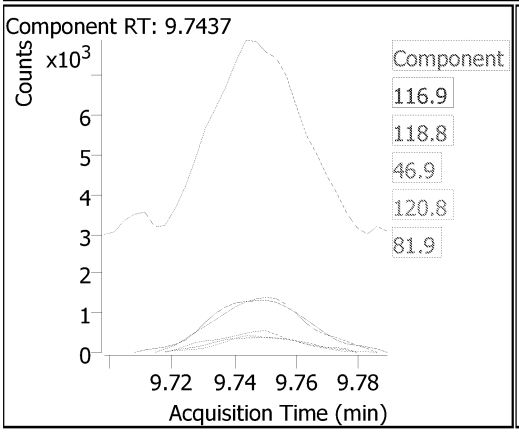



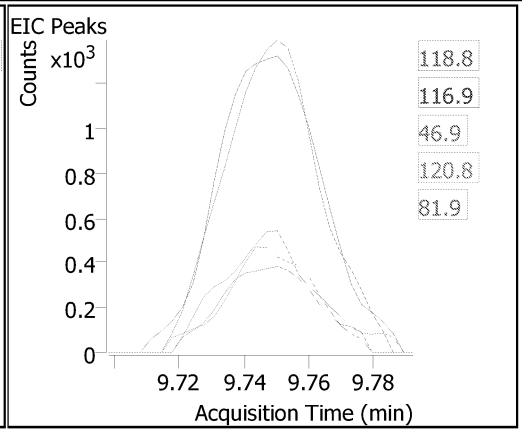
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.7437 | Carbon Tetrachloride | 11357.5 | 89.8 | 56-23-5 | CCl4 | 0.02746 |

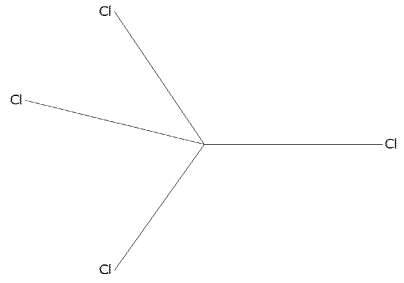


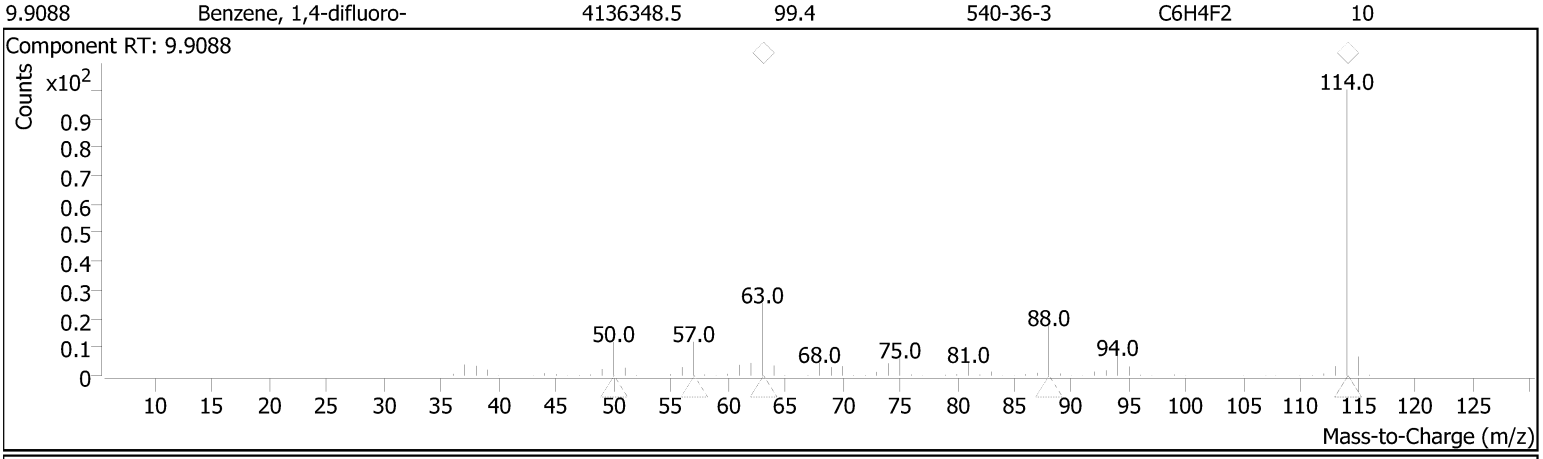



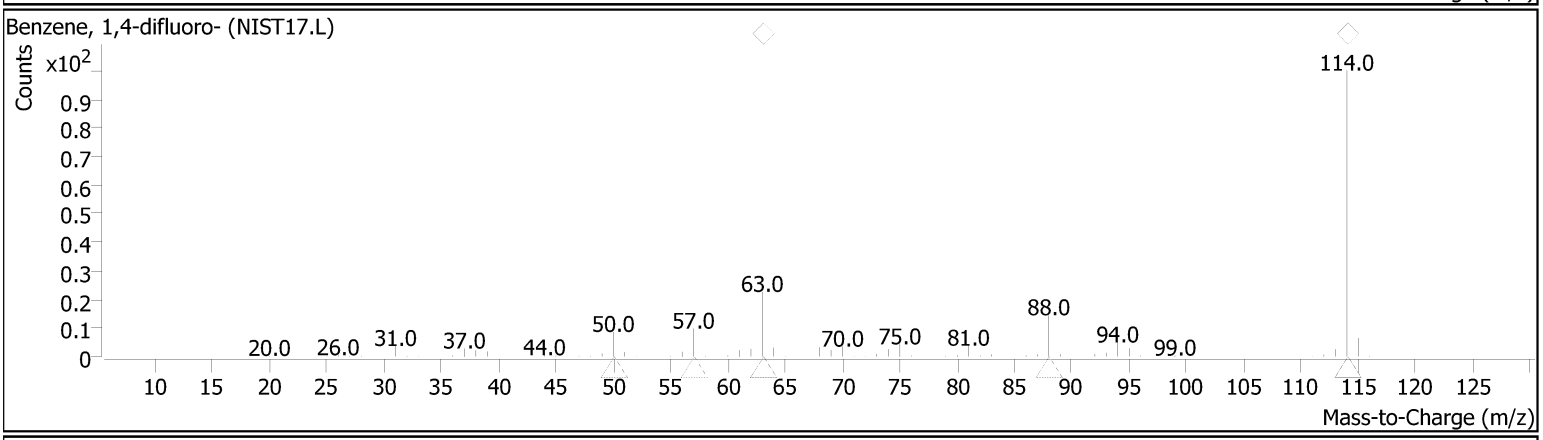



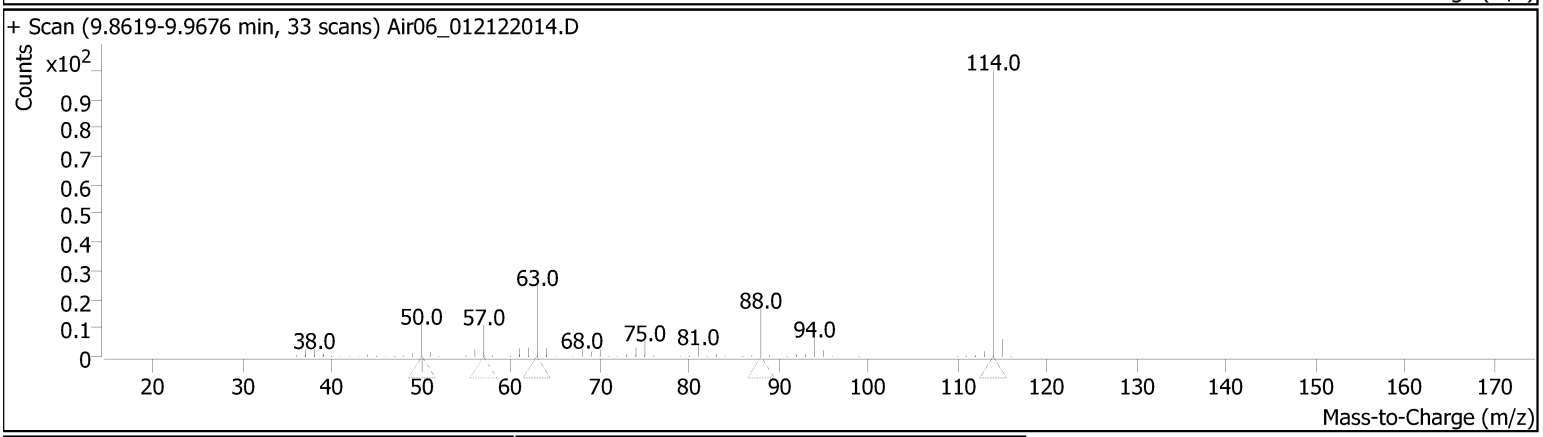



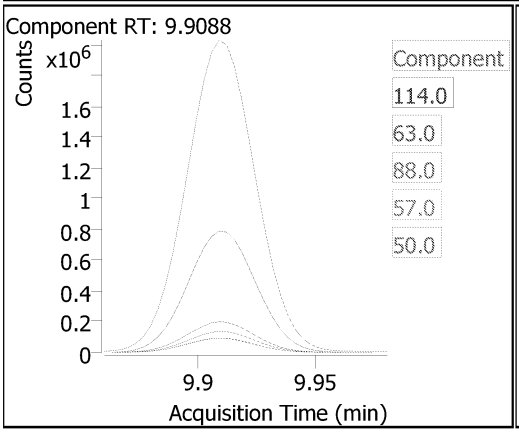



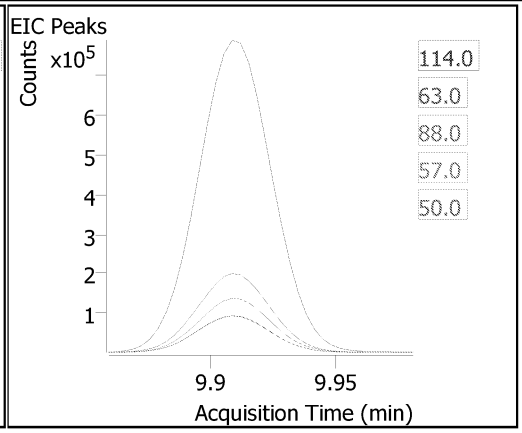
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.9088 | Benzene, 1,4-difluoro- | 4136348.5 | 99.4 | 540-36-3 | C6H4F2 | 10 |



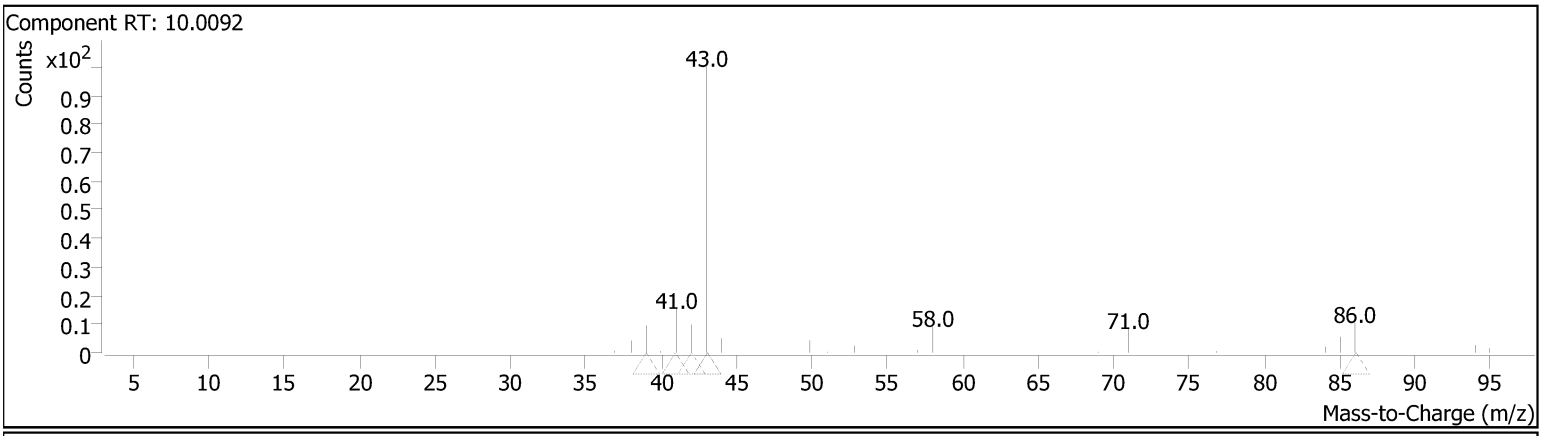



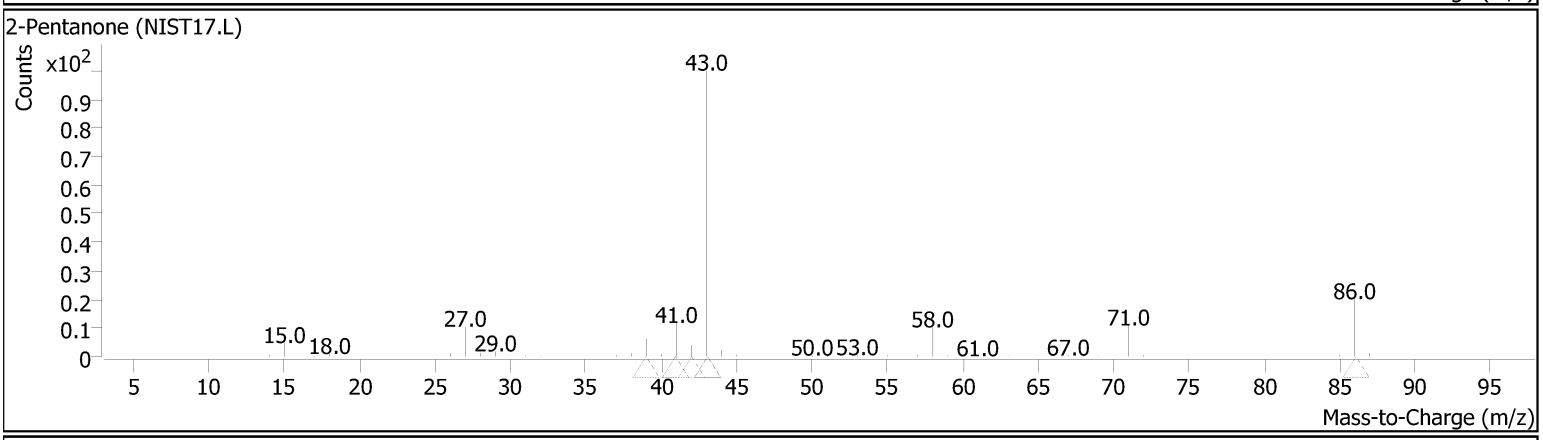



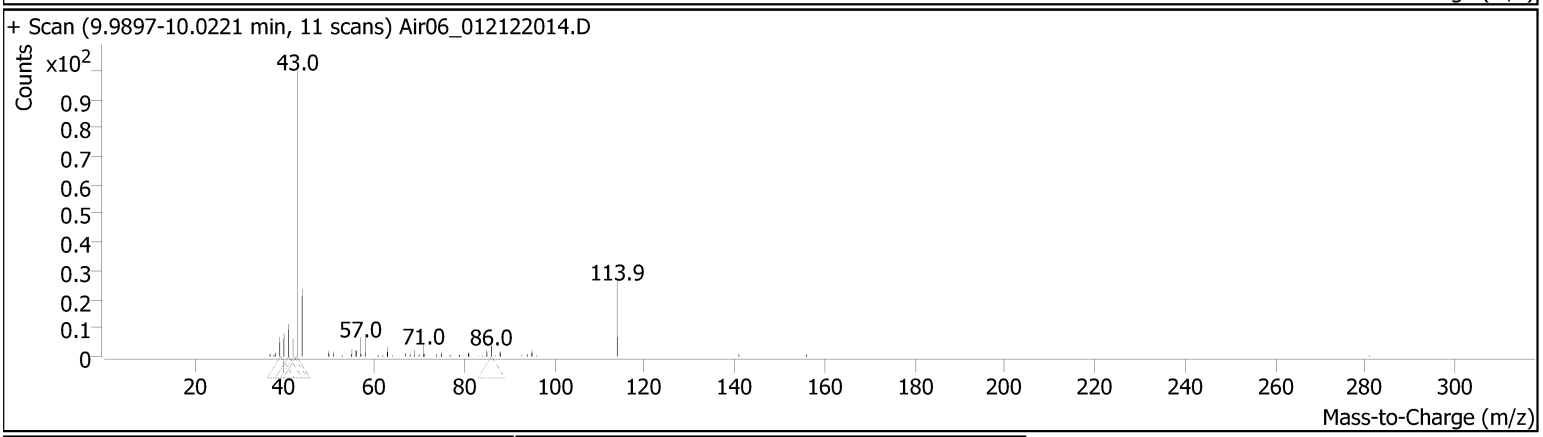



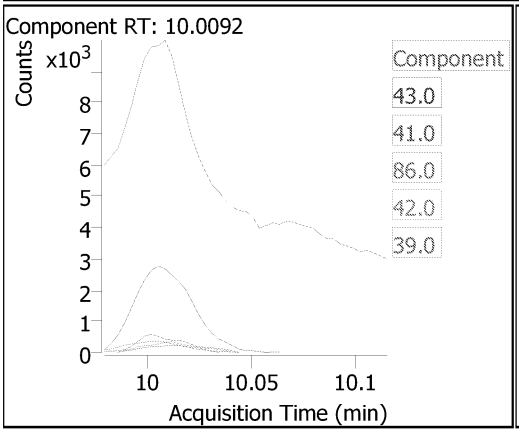


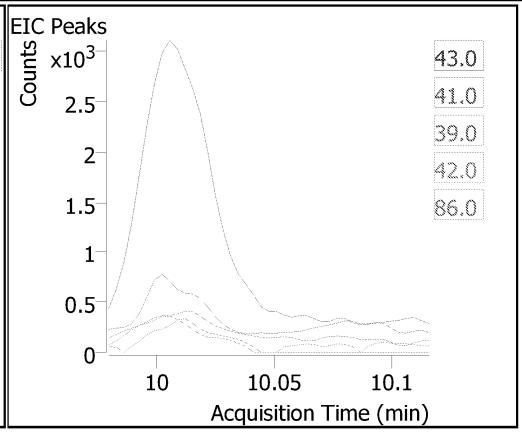

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.0092 | 2-Pentanone | 21424.6 | 80.6 | 107-87-9 | C5H10O | 0.0518 |

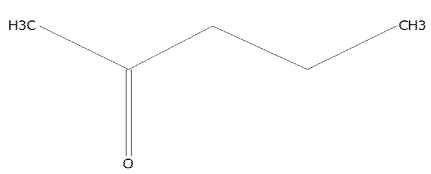


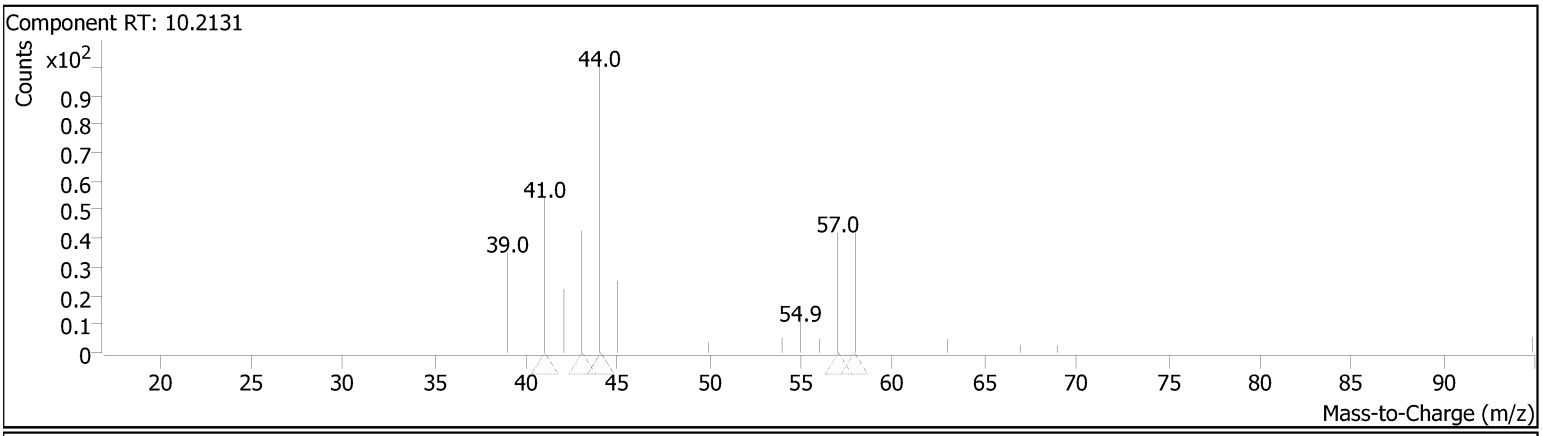



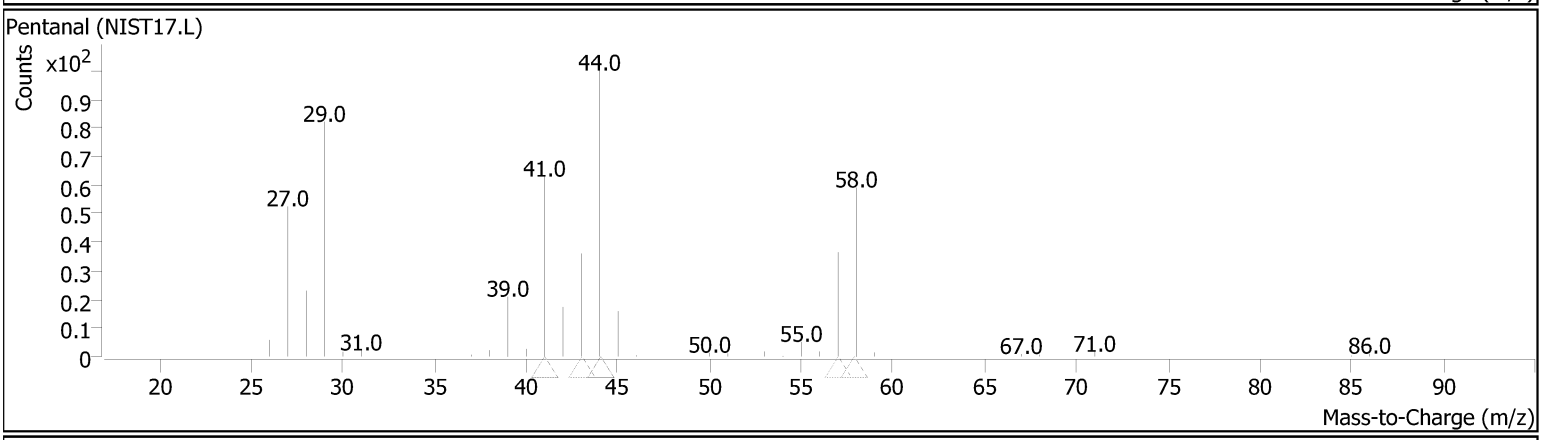



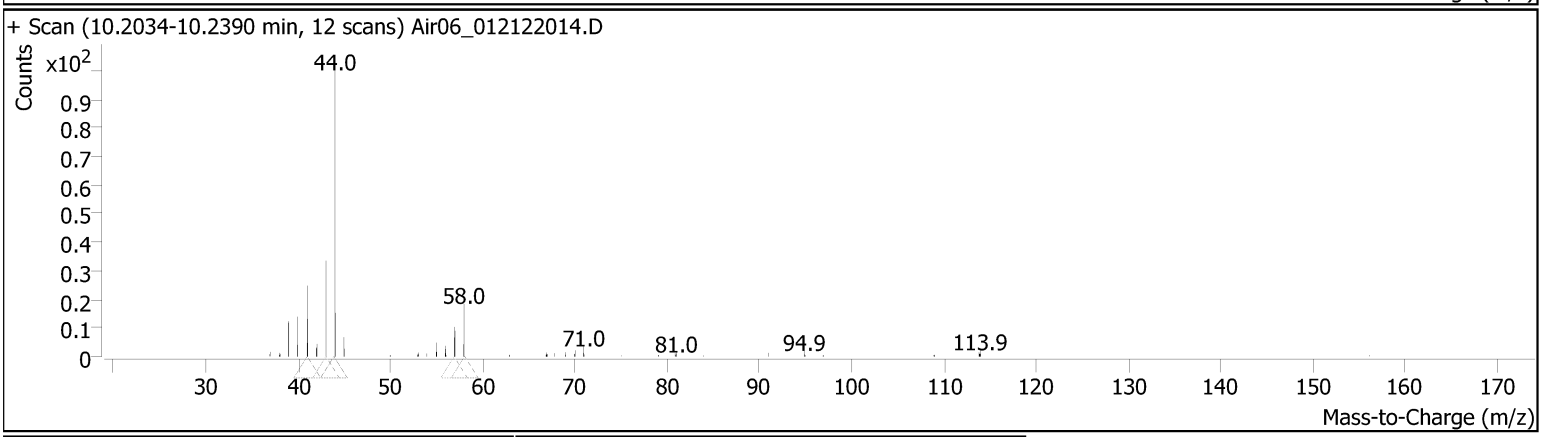



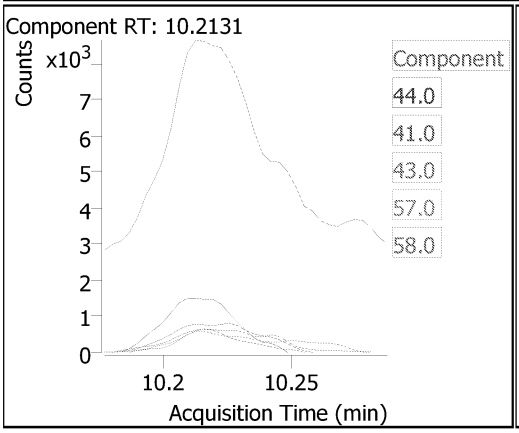



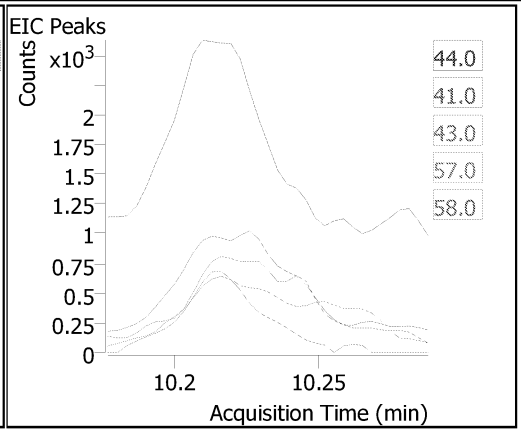
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.2131 | Pentanal | 15946.5 | 89.3 | 110-62-3 | C5H10O | 0.03855 |

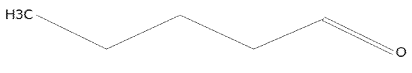


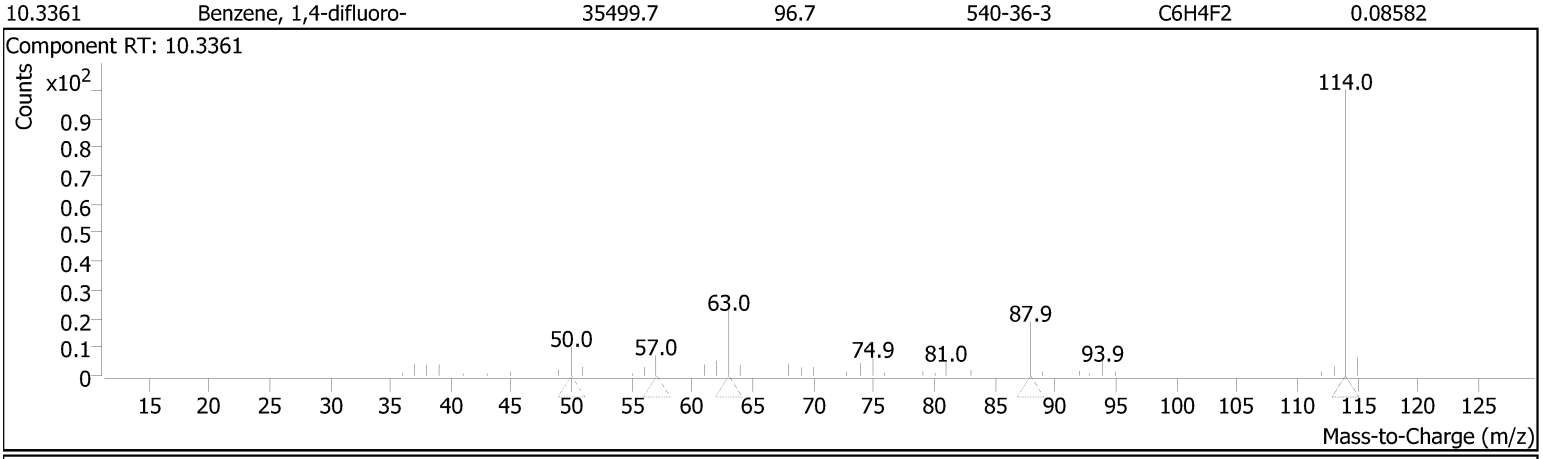



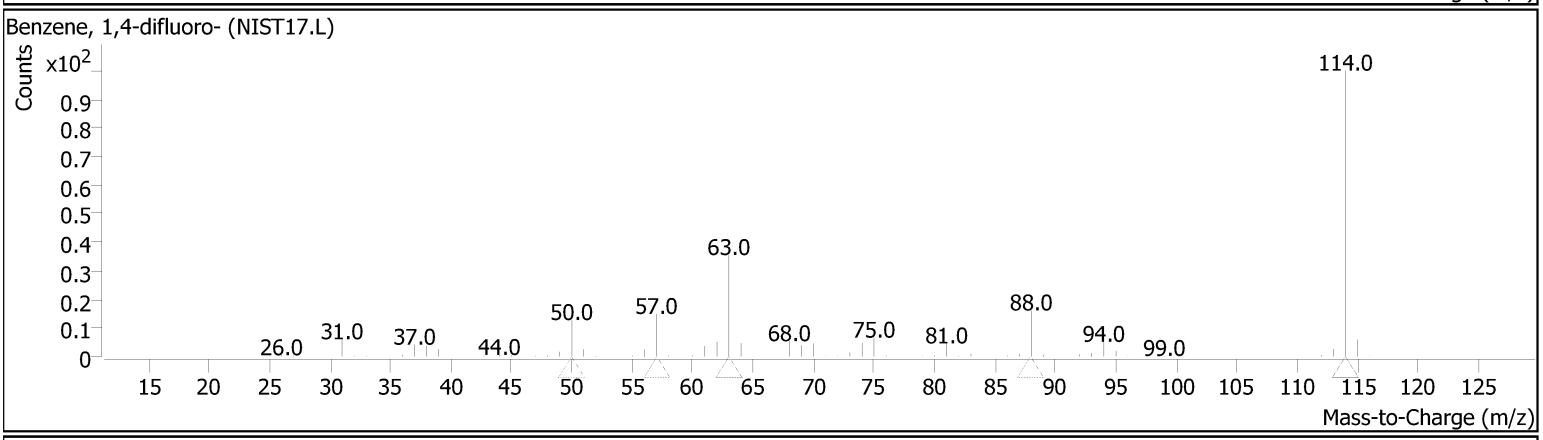



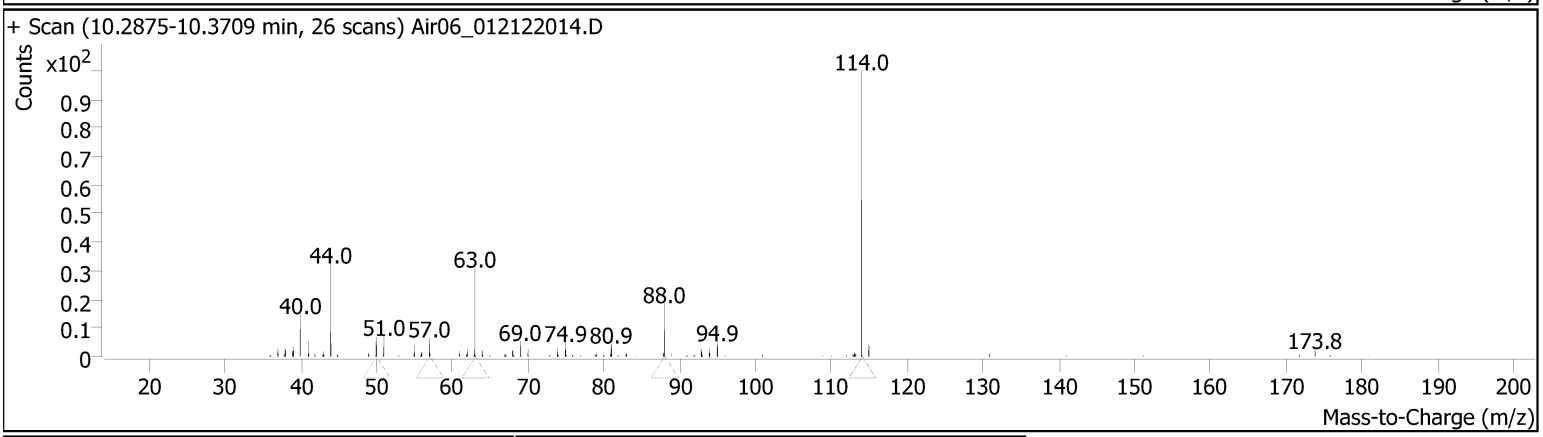



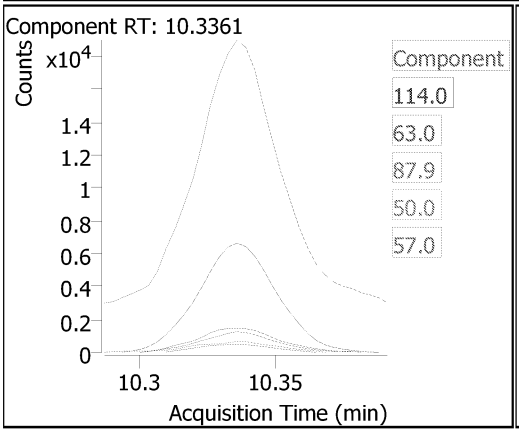



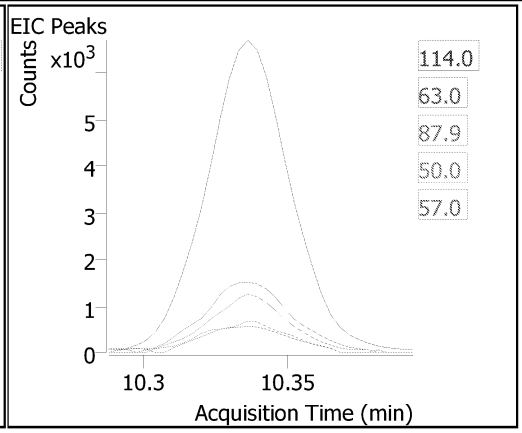
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.3361 | Benzene, 1,4-difluoro- | 35499.7 | 96.7 | 540-36-3 | C6H4F2 | 0.08582 |



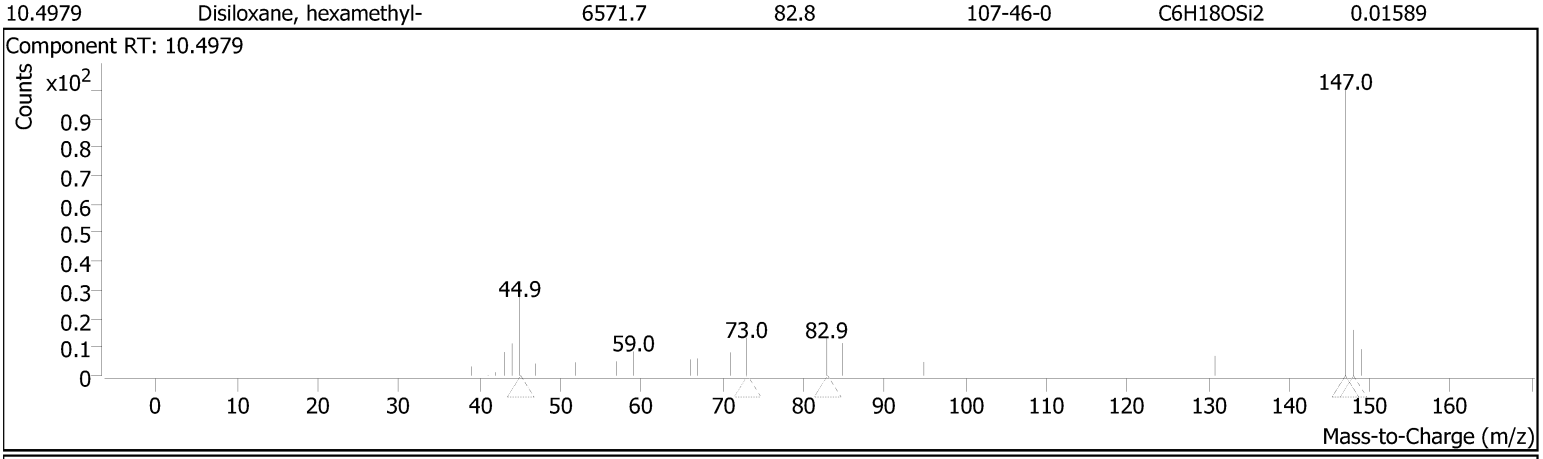



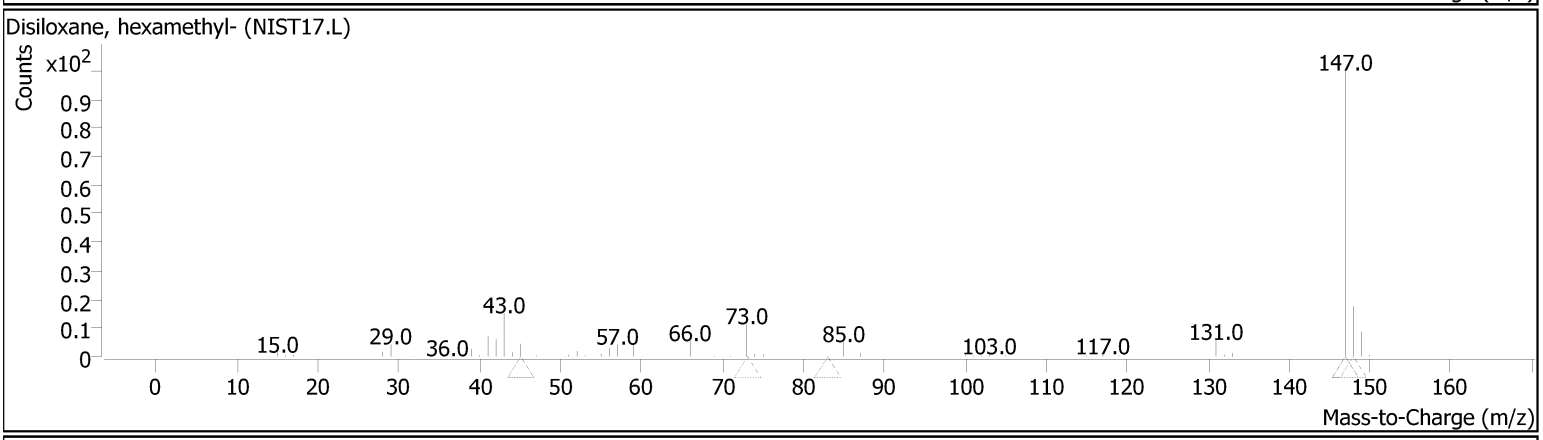



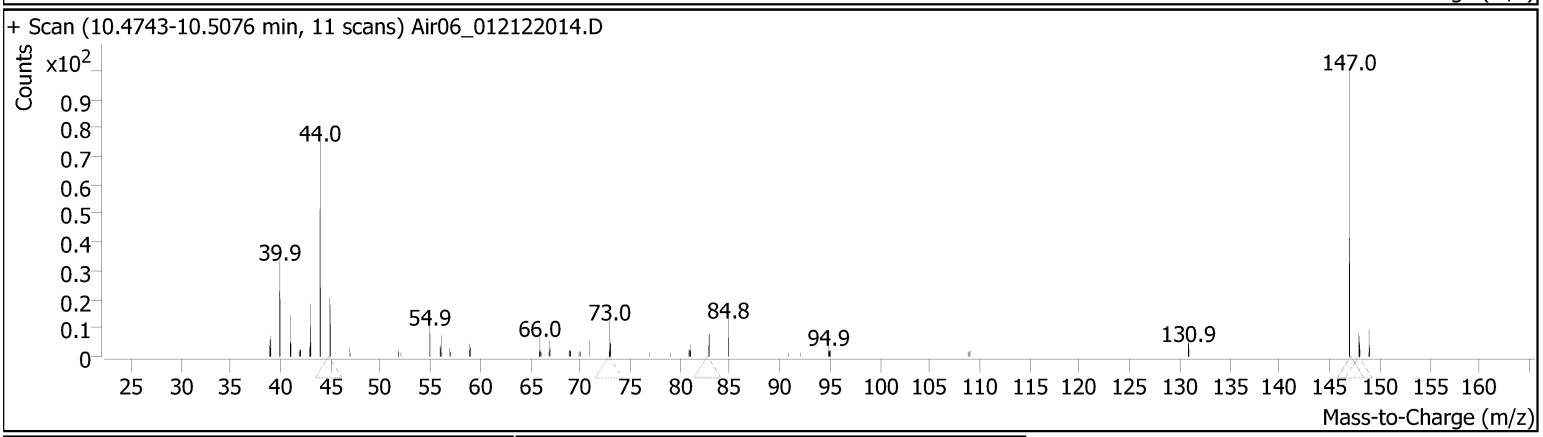



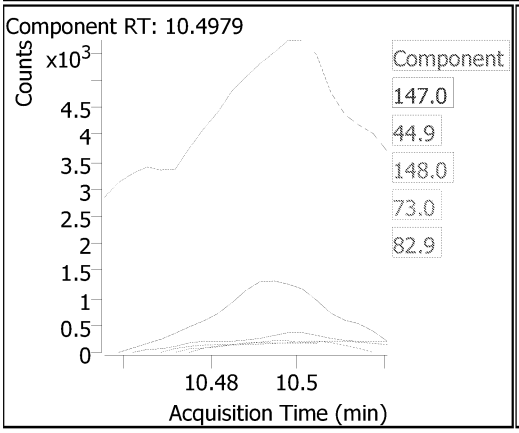


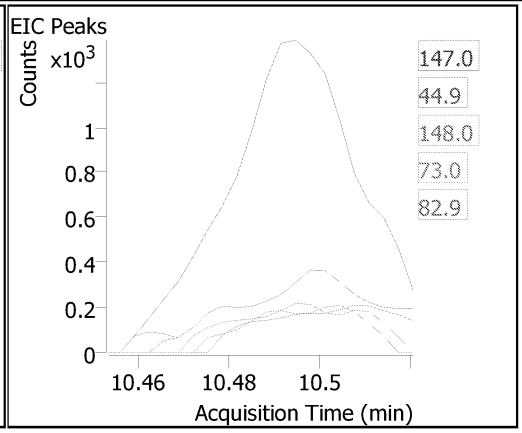

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.4979 | Disiloxane, hexamethyl- | 6571.7 | 82.8 | 107-46-0 | C6H18OSi2 | 0.01589 |

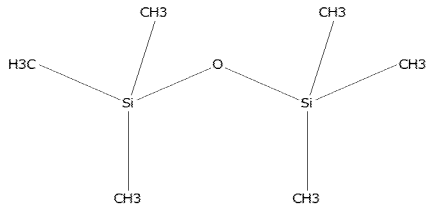


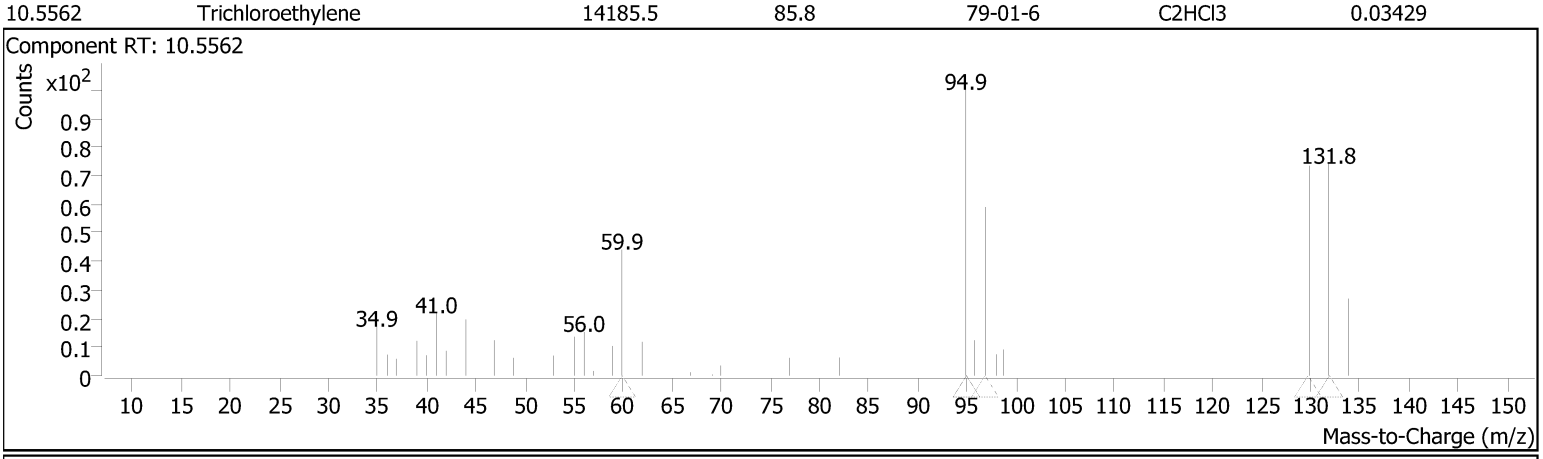



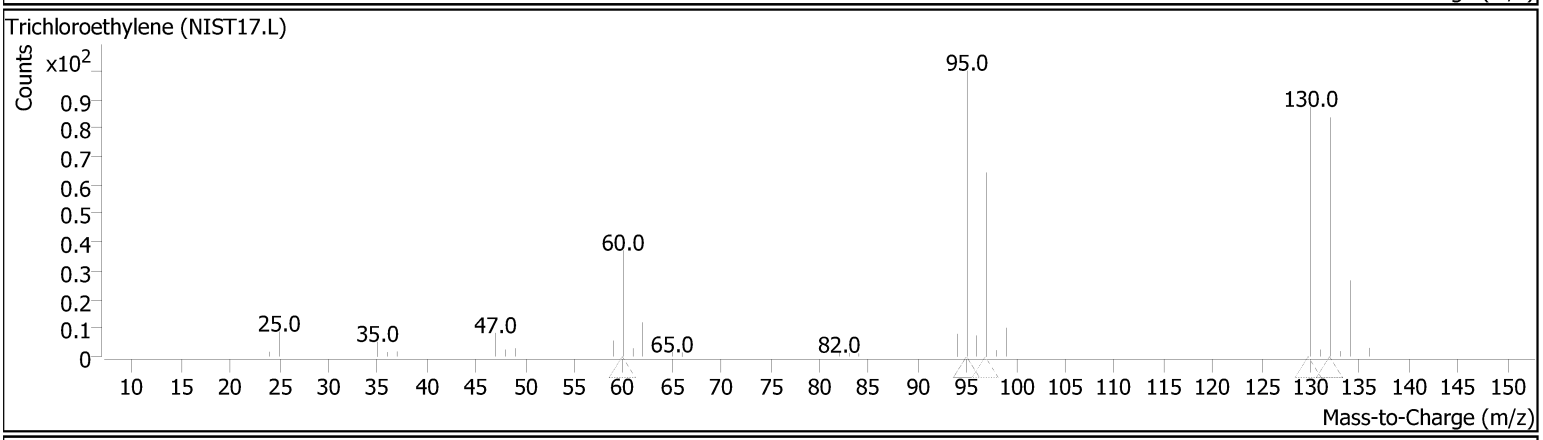



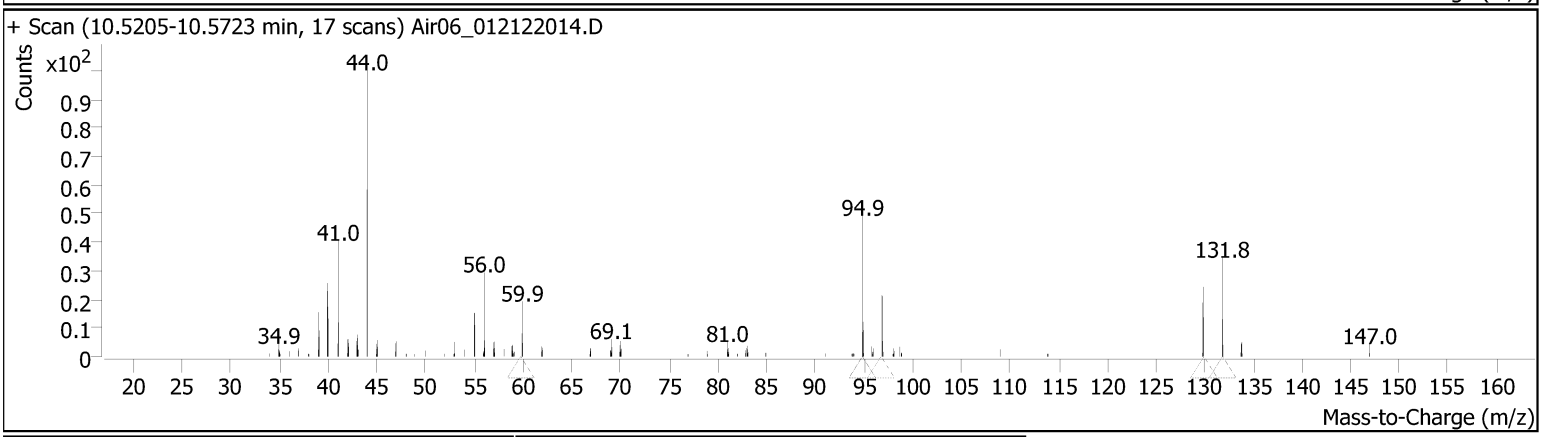



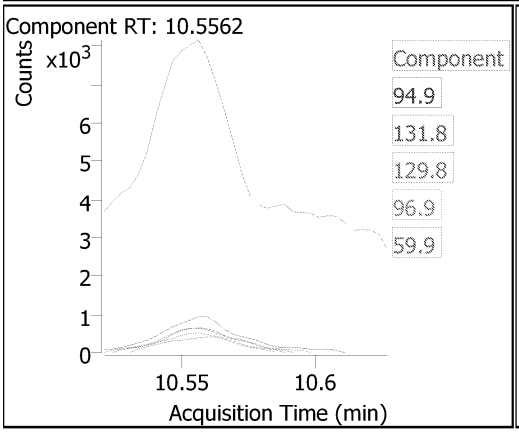



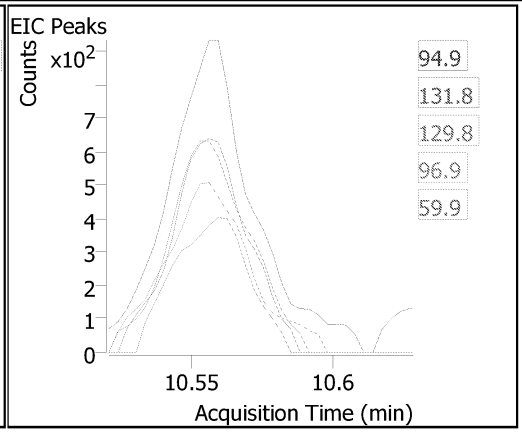
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.5562 | Trichloroethylene | 14185.5 | 85.8 | 79-01-6 | C2HCl3 | 0.03429 |

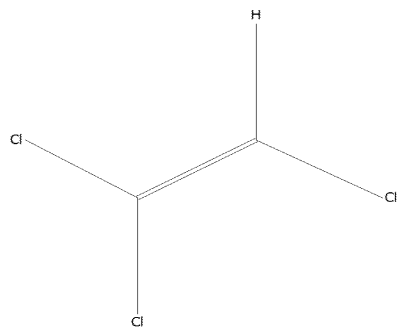


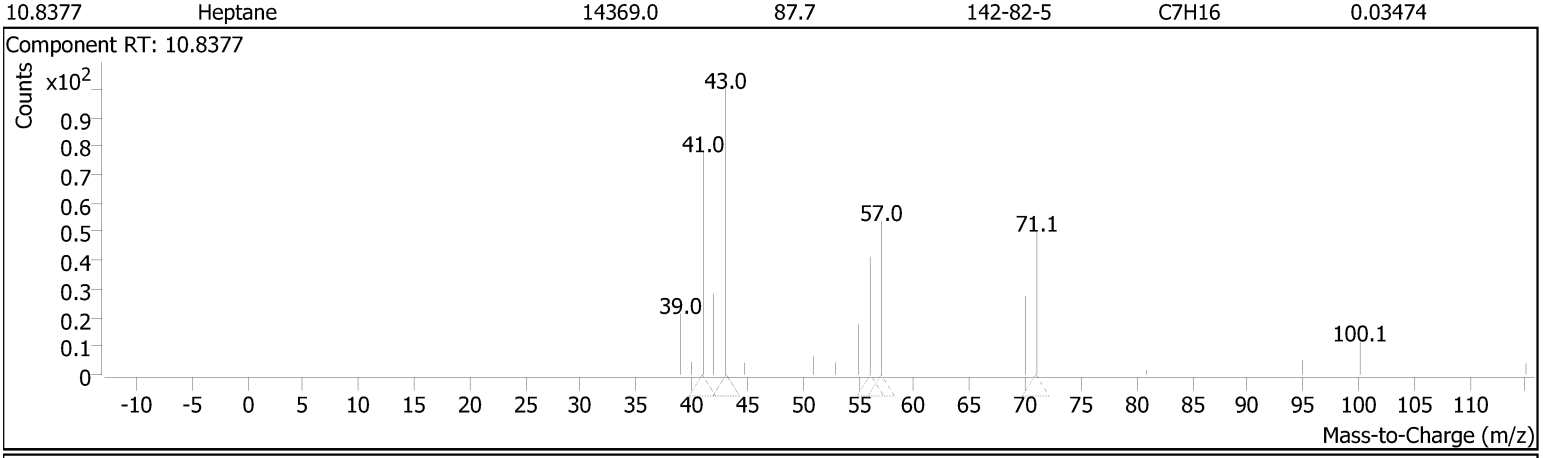



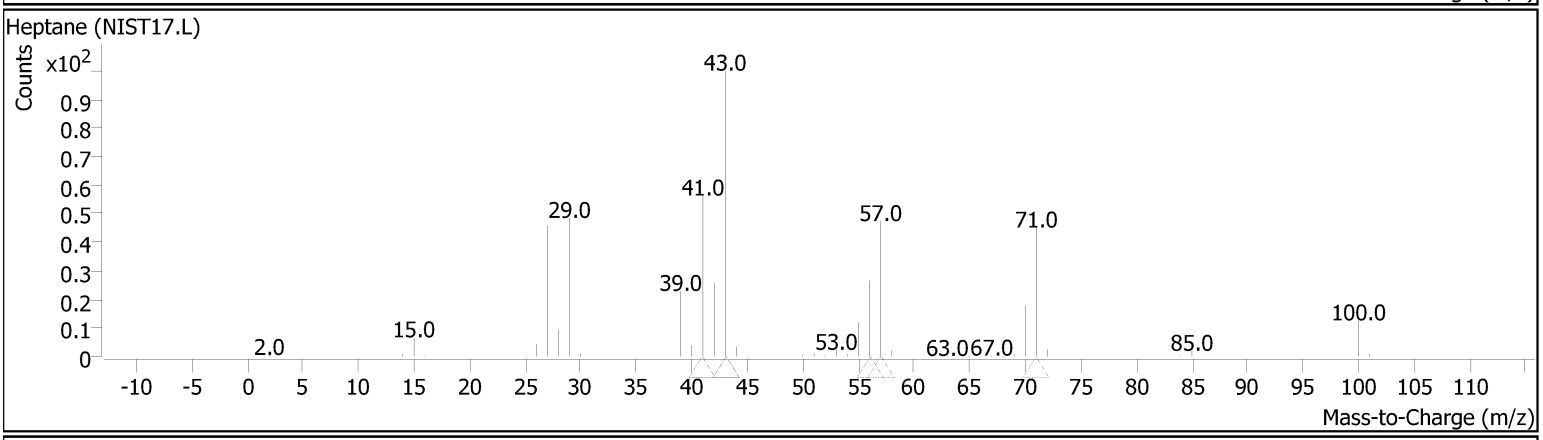



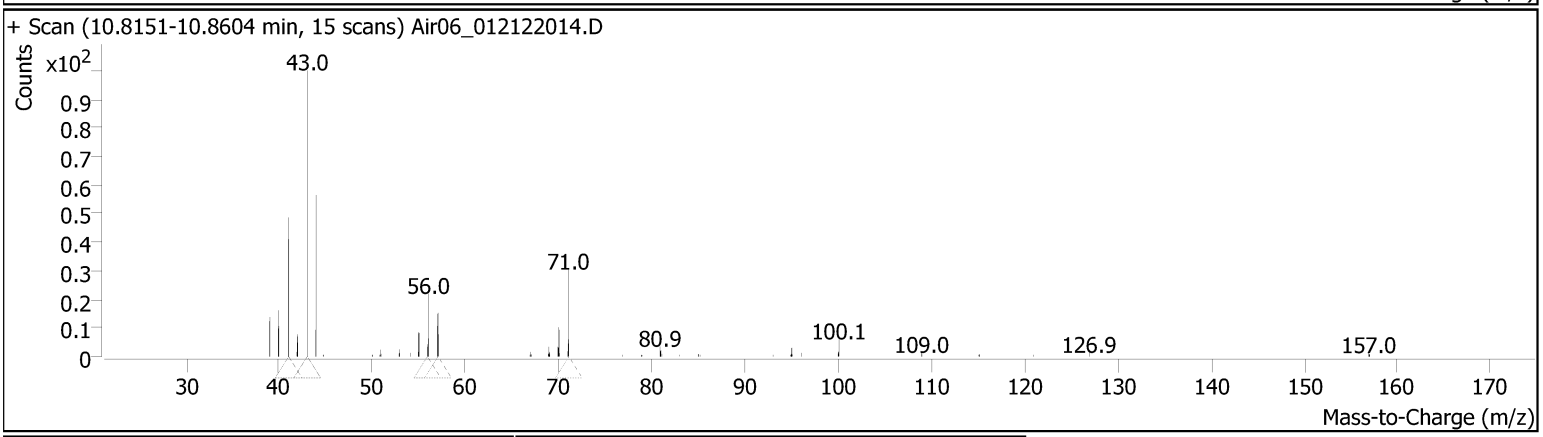



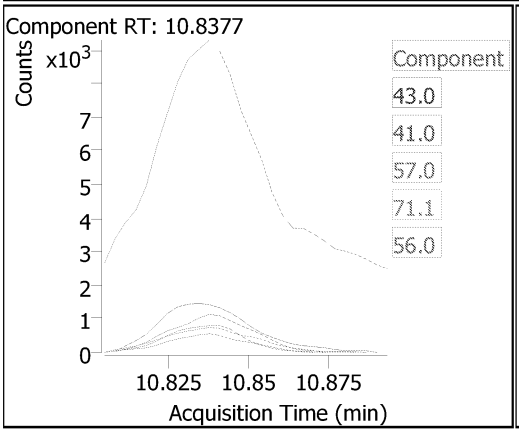



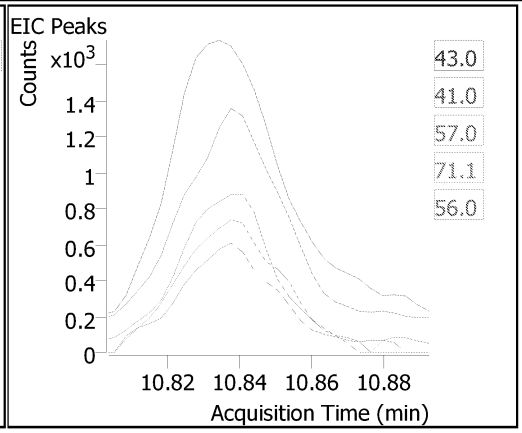
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.8377 | Heptane | 14369.0 | 87.7 | 142-82-5 | C7H16 | 0.03474 |



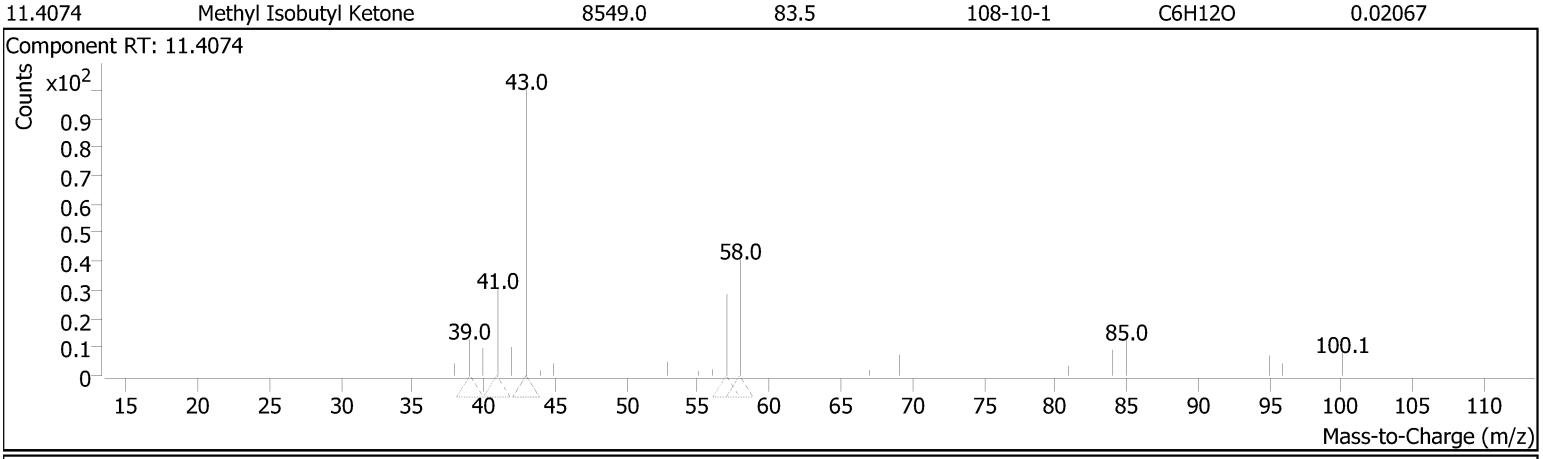



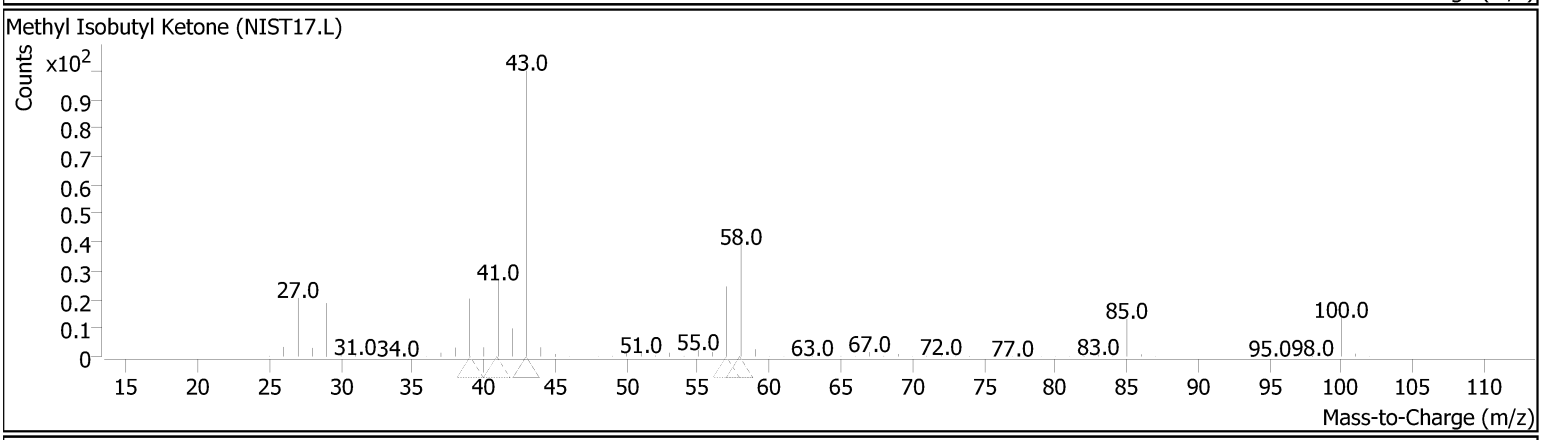



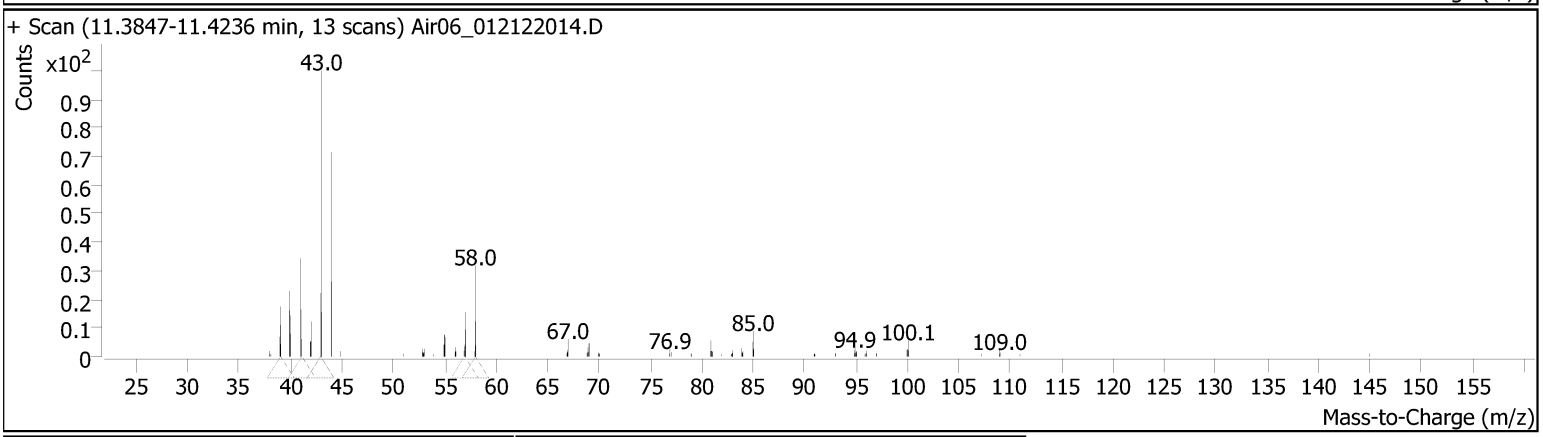



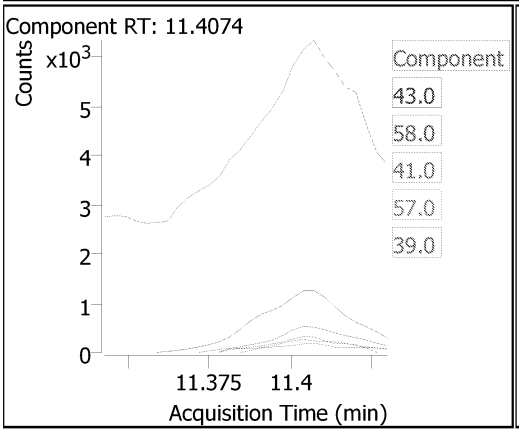


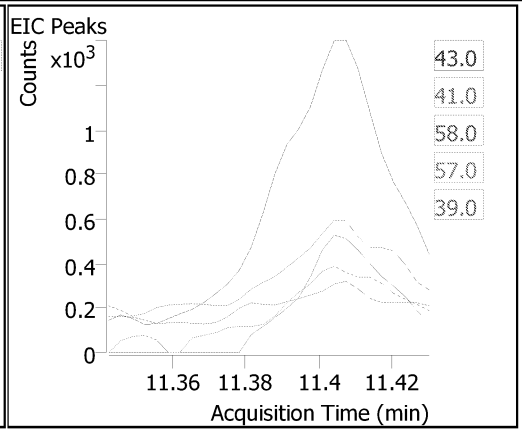

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.4074 | Methyl Isobutyl Ketone | 8549.0 | 83.5 | 108-10-1 | C6H12O | 0.02067 |

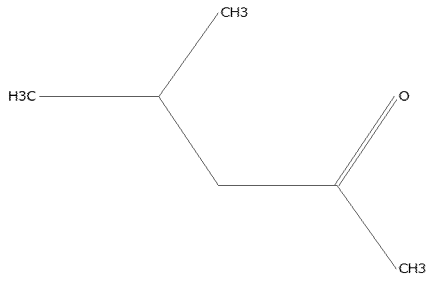


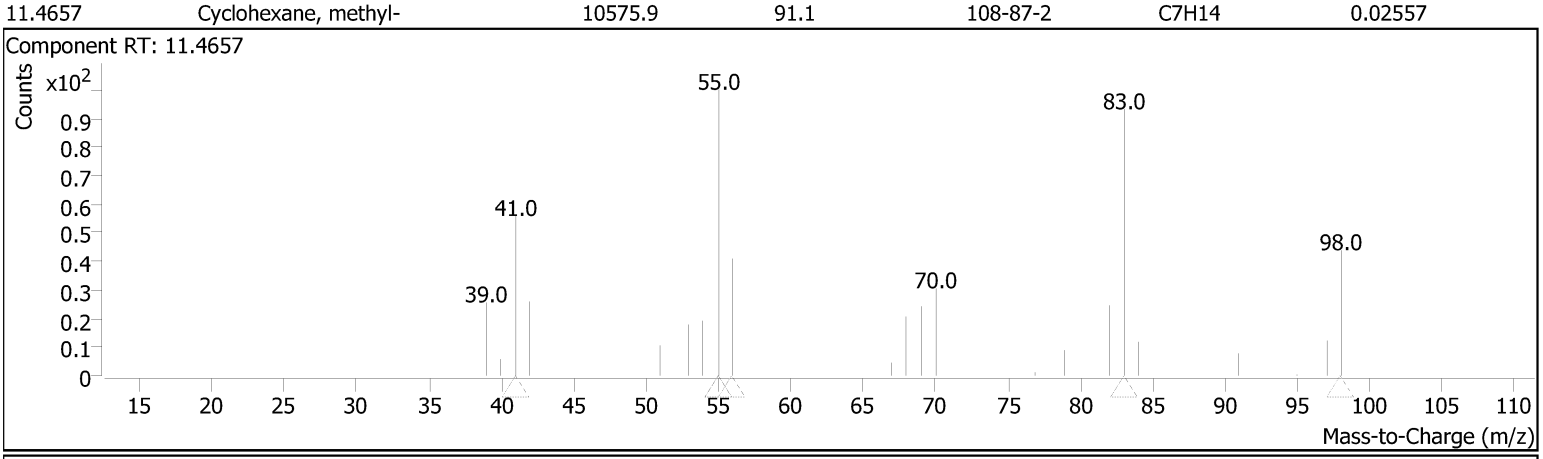



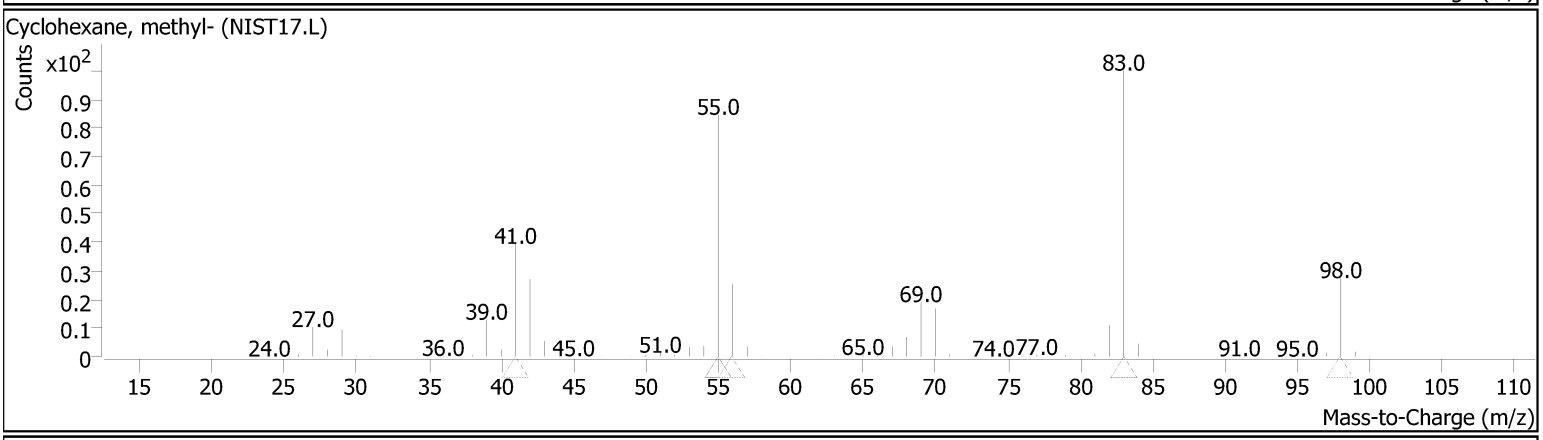



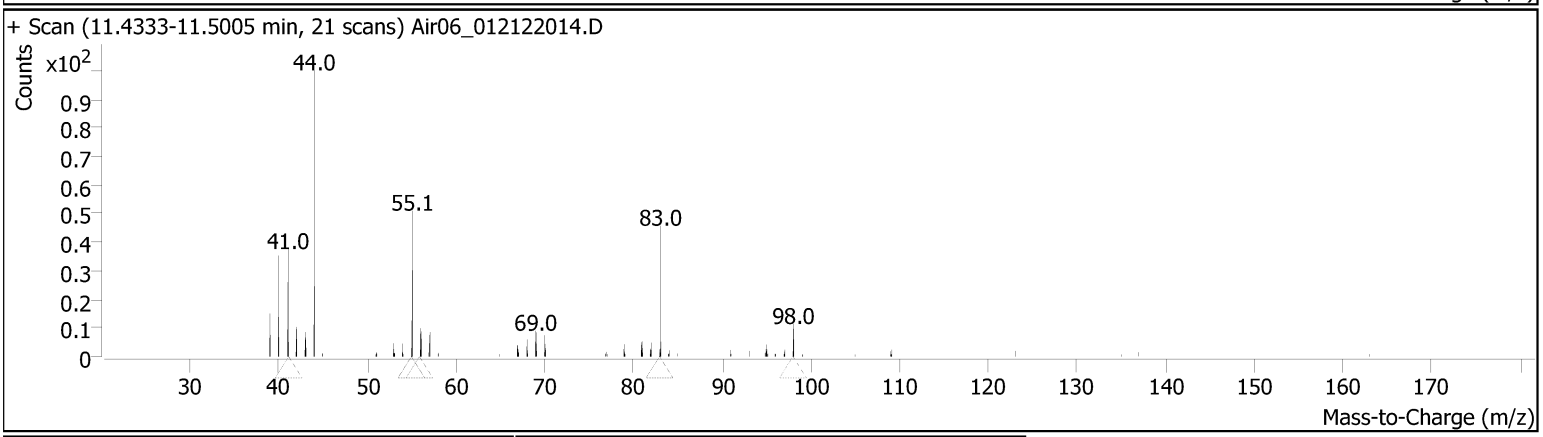



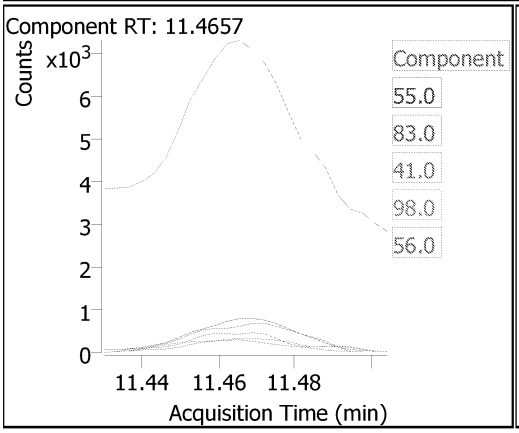



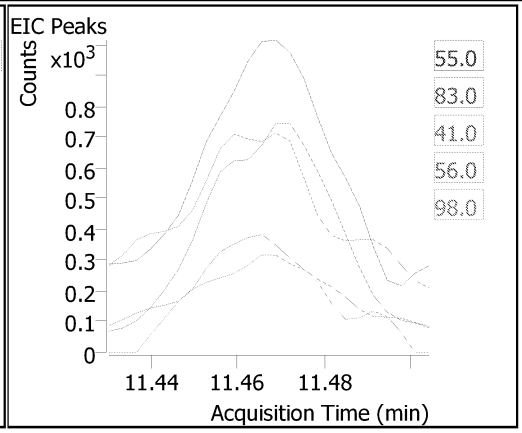
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.4657 | Cyclohexane, methyl- | 10575.9 | 91.1 | 108-87-2 | C7H14 | 0.02557 |

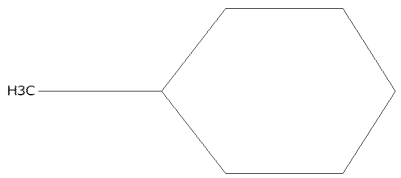


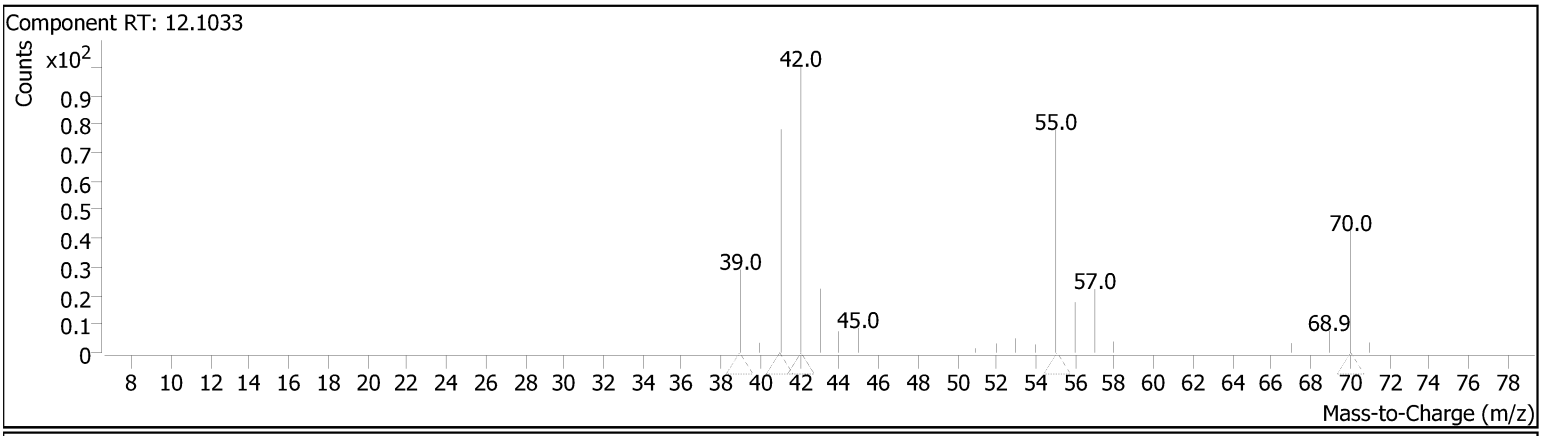



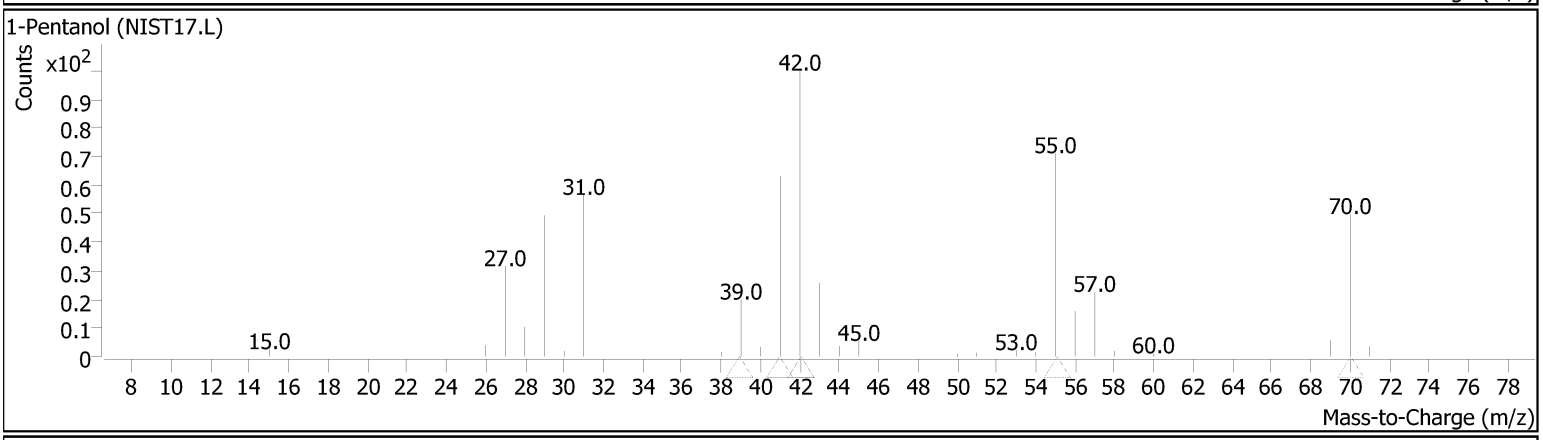



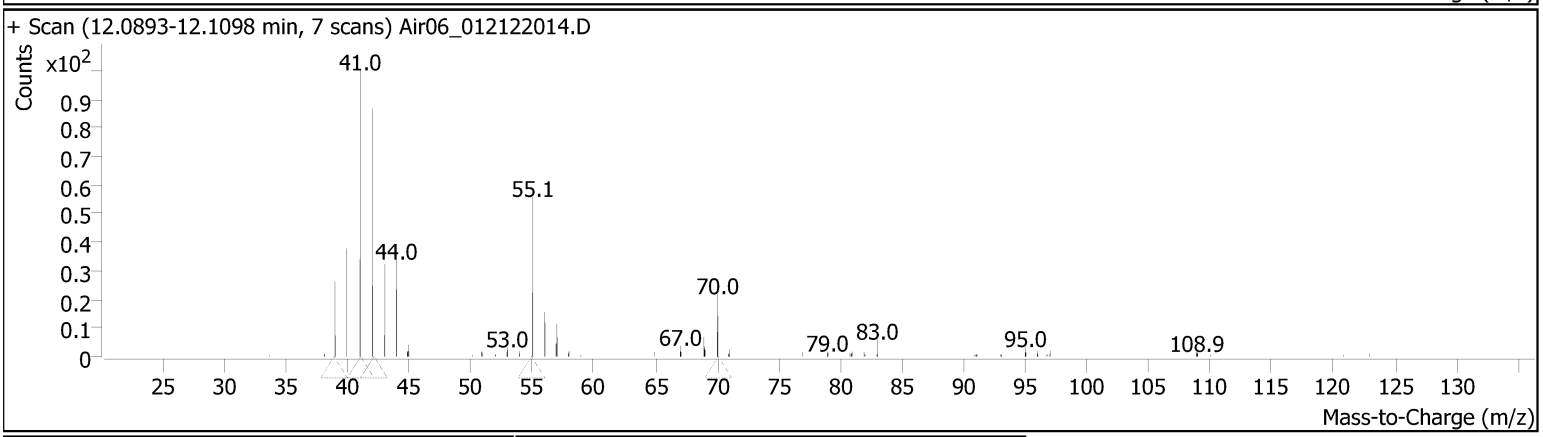



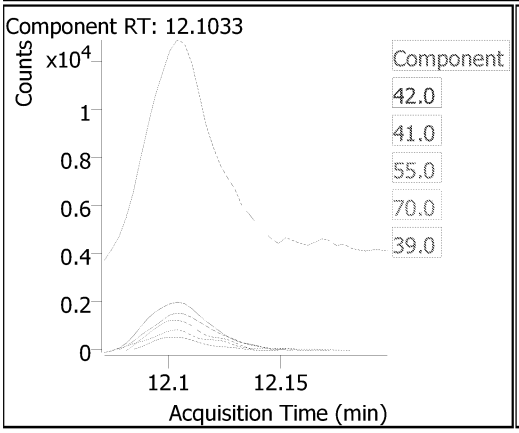



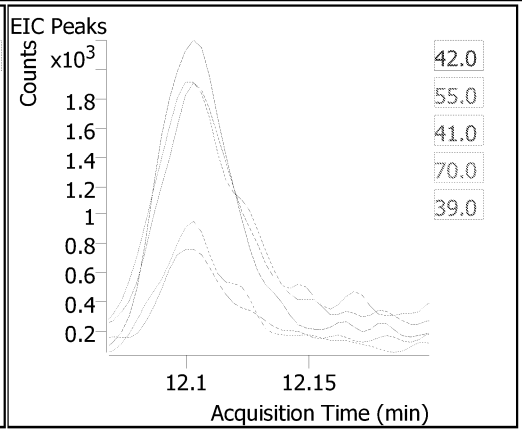
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.1033 | 1-Pentanol | 20907.3 | 89.3 | 71-41-0 | C5H12O | 0.04383 |



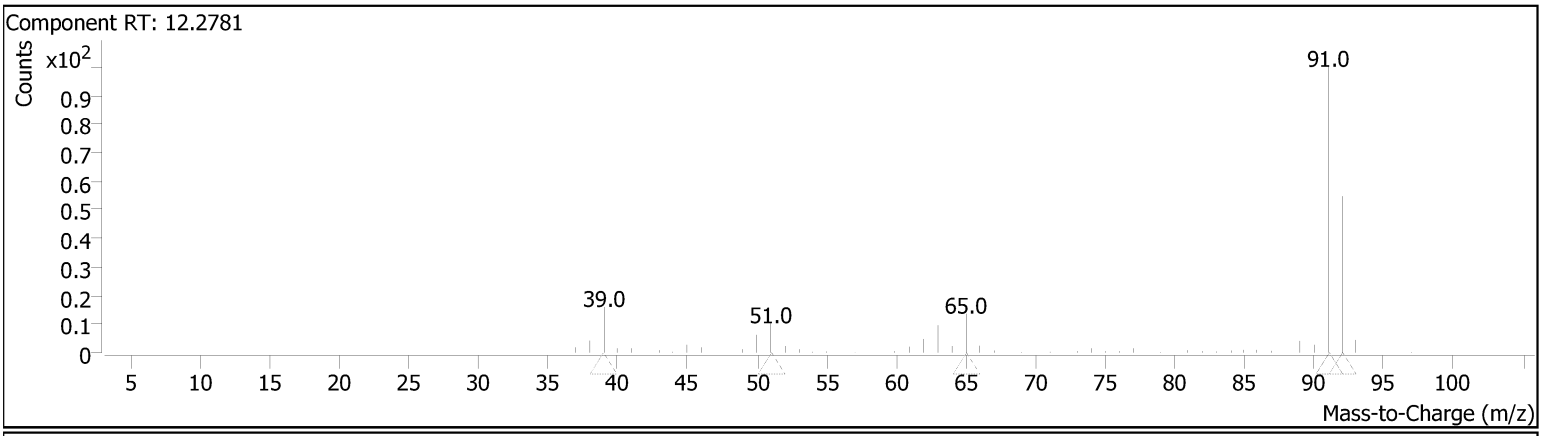



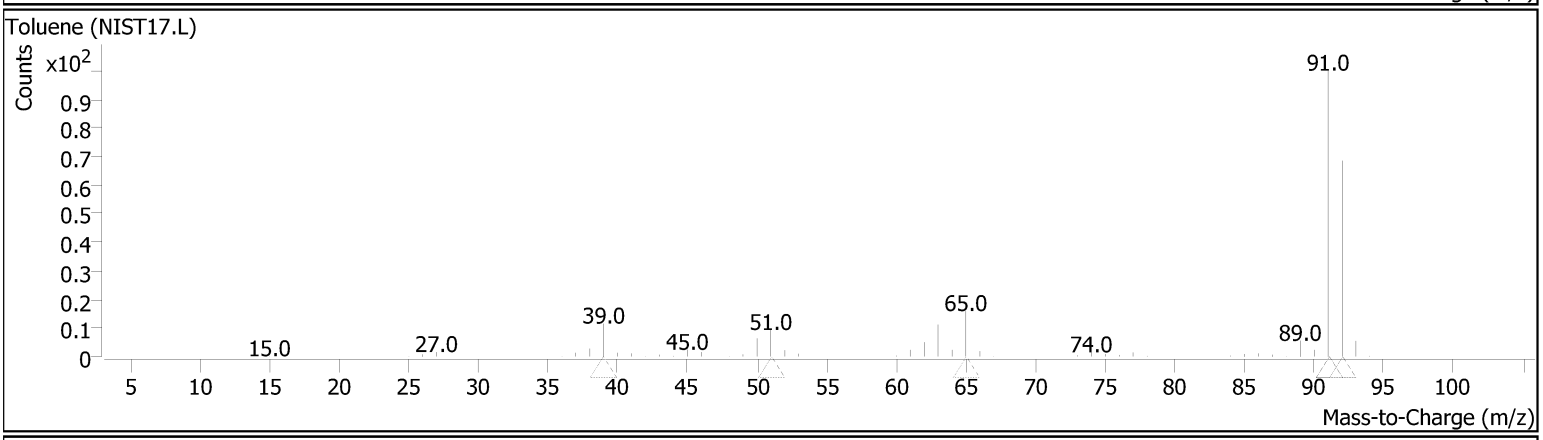



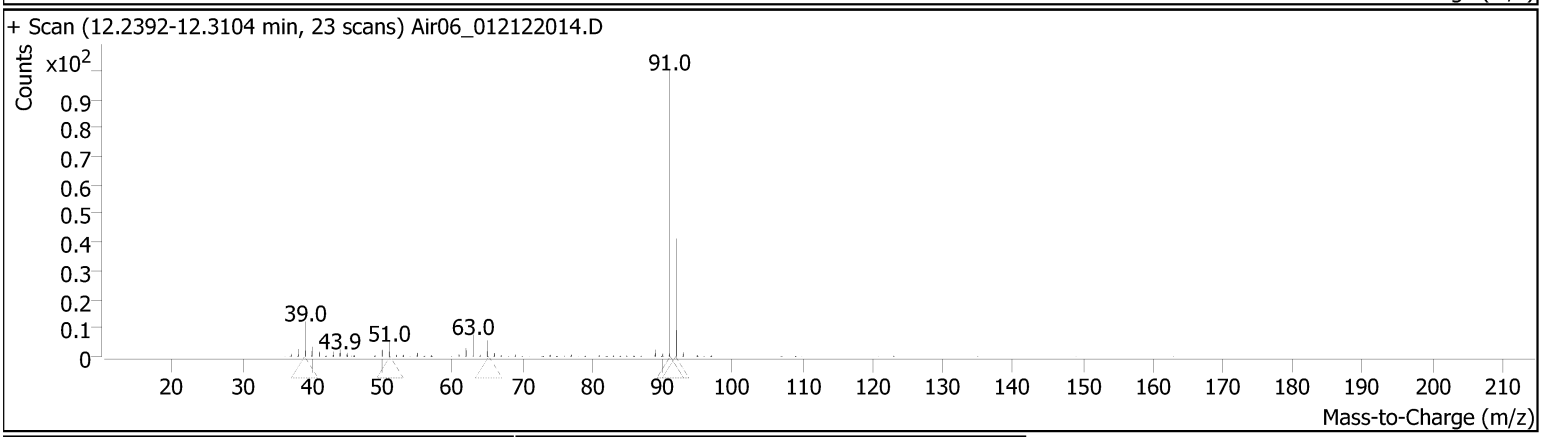



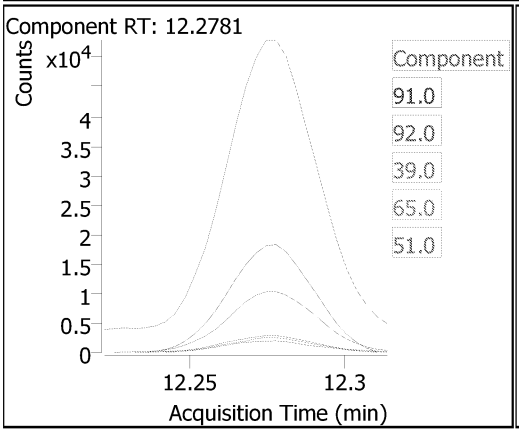


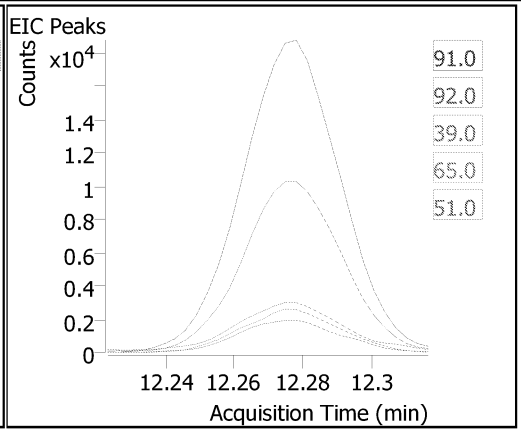

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.2781 | Toluene | 97607.3 | 98.1 | 108-88-3 | C7H8 | 0.2046 |

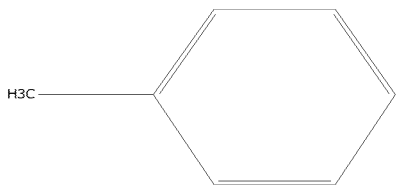


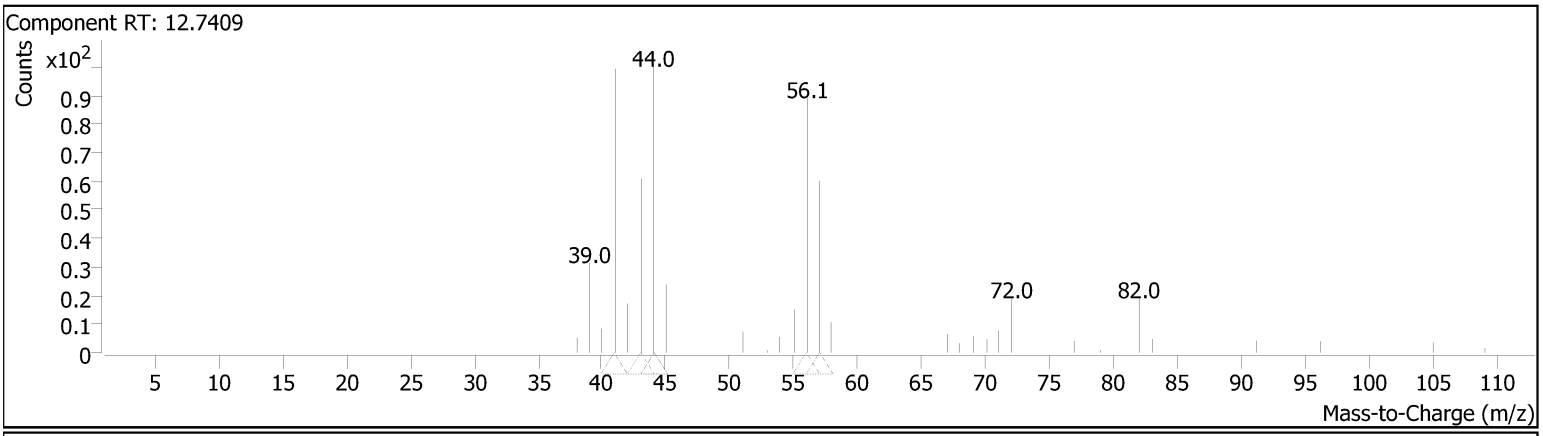



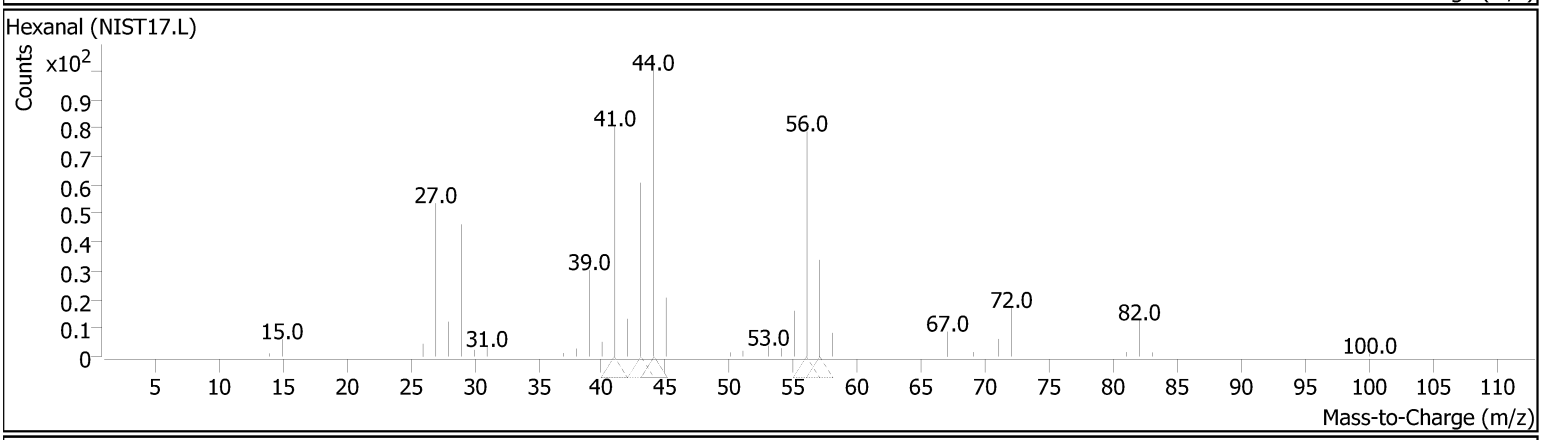



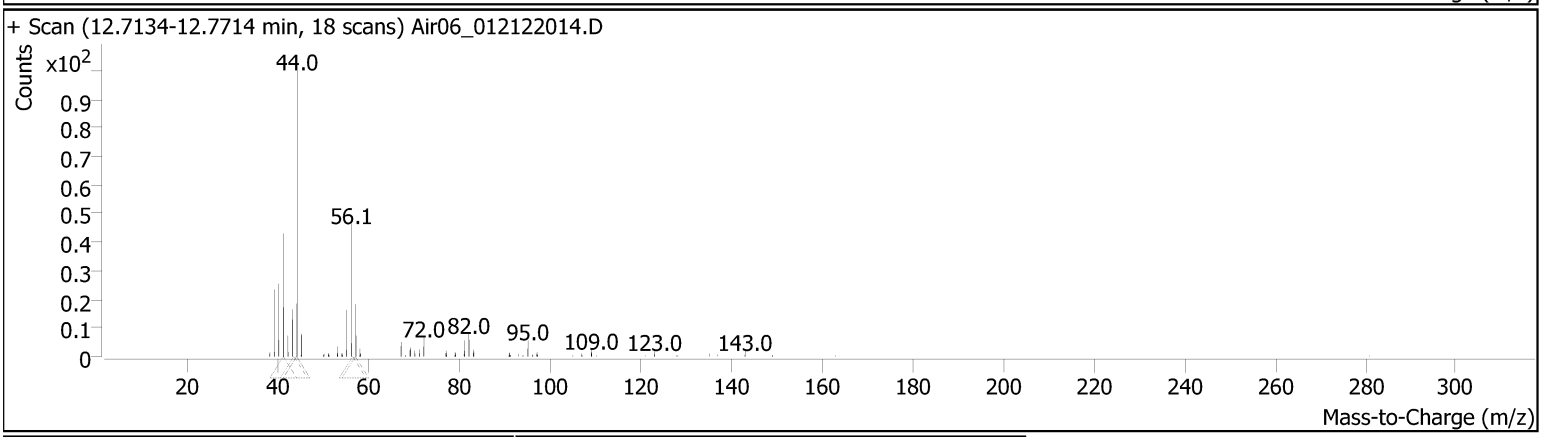



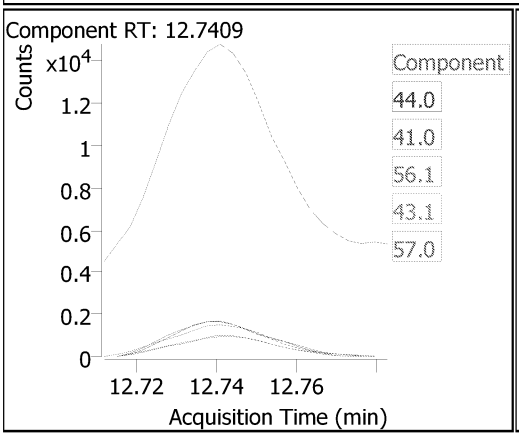



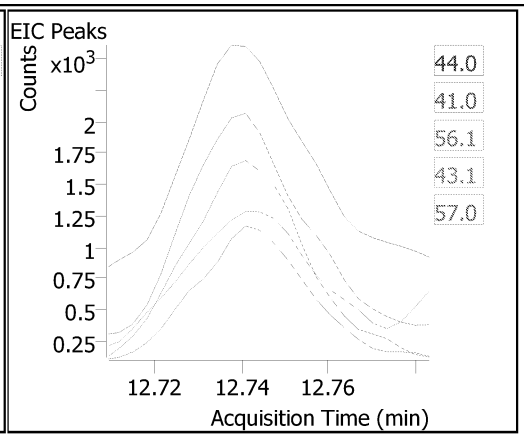
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.7409 | Hexanal | 21013.6 | 90.7 | 66-25-1 | C6H12O | 0.04405 |



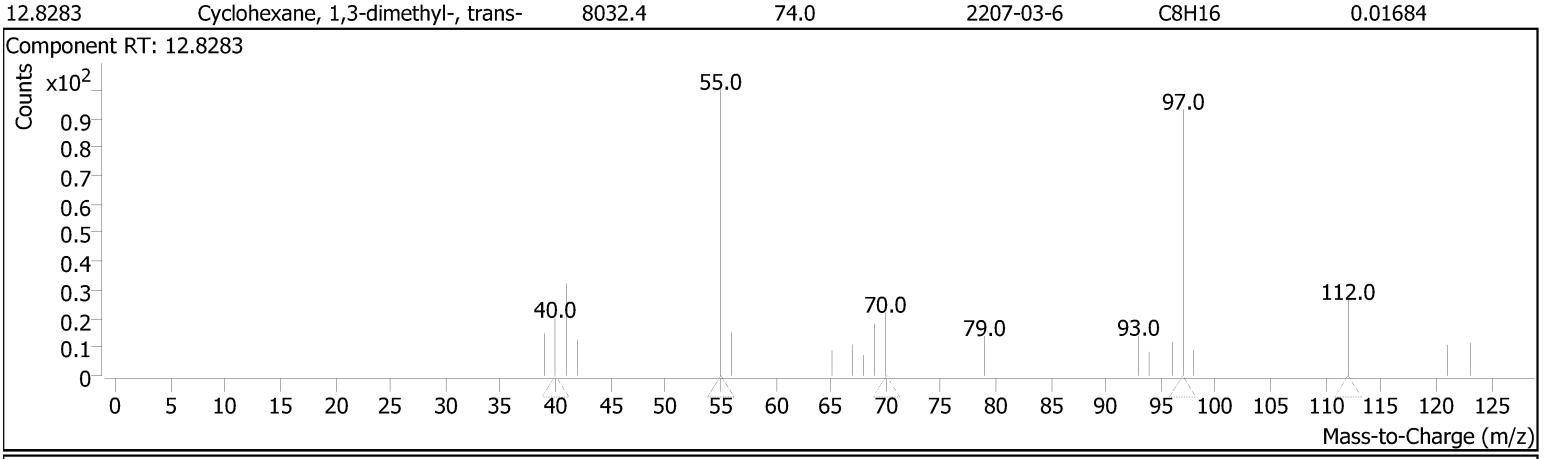



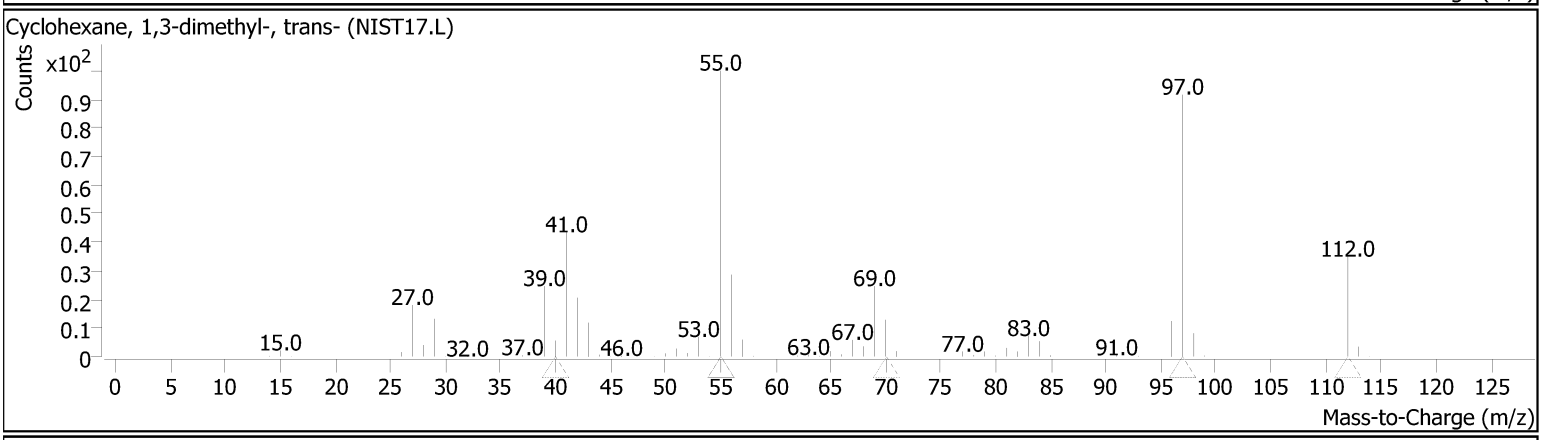



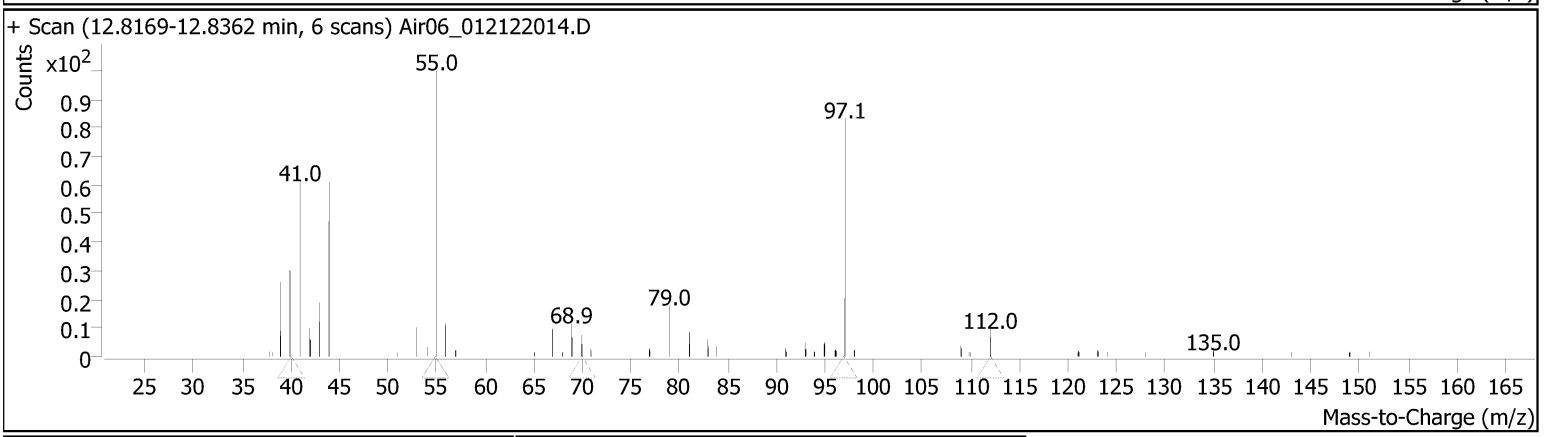



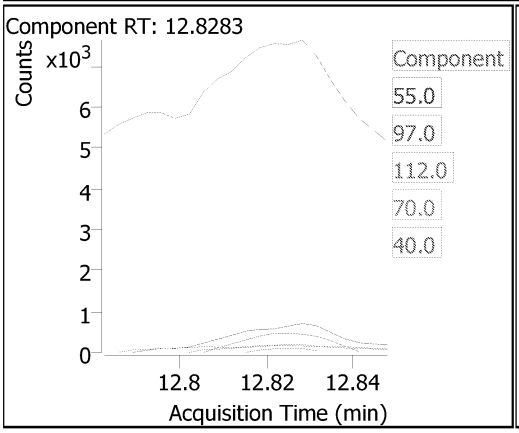


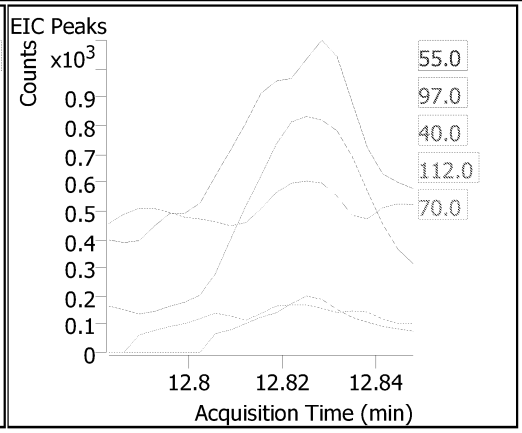

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.8283 | Cyclohexane, 1,3-dimethyl-, trans- | 8032.4 | 74.0 | 2207-03-6 | C8H16 | 0.01684 |

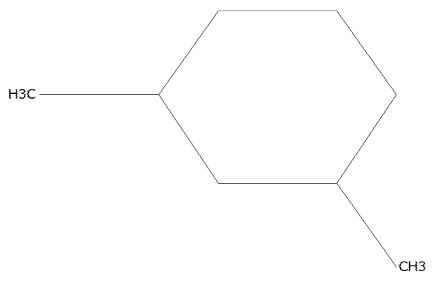


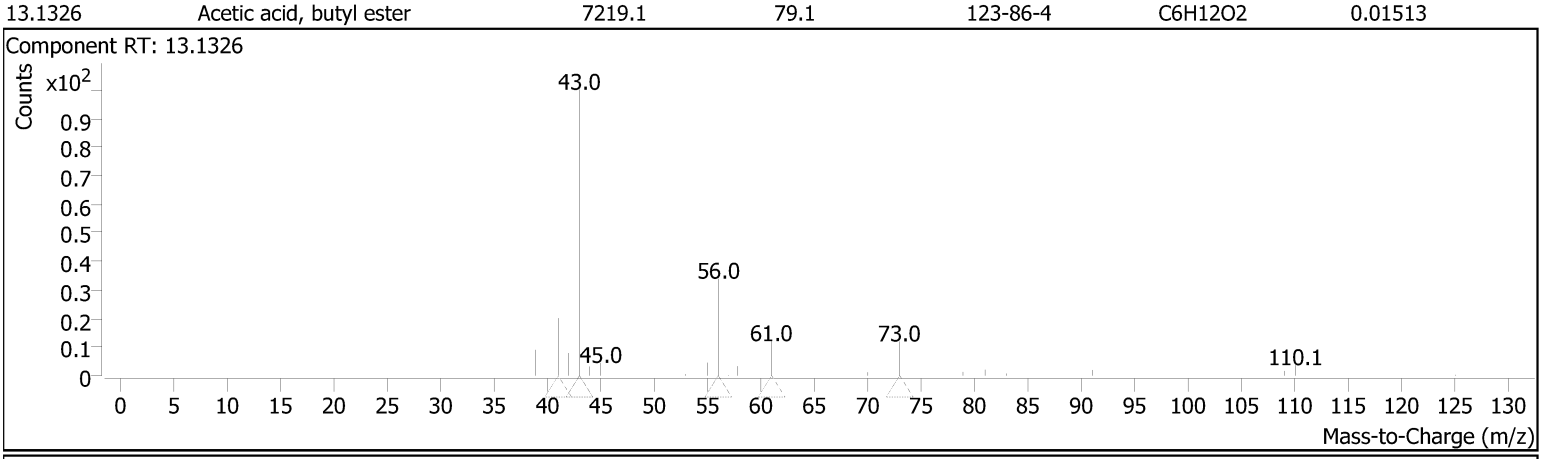



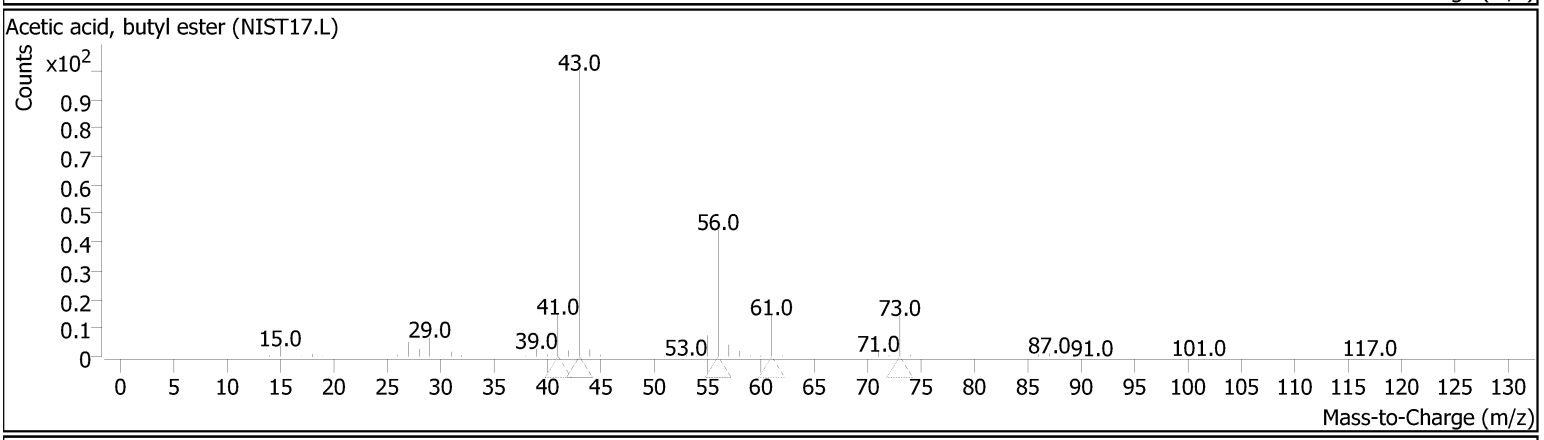



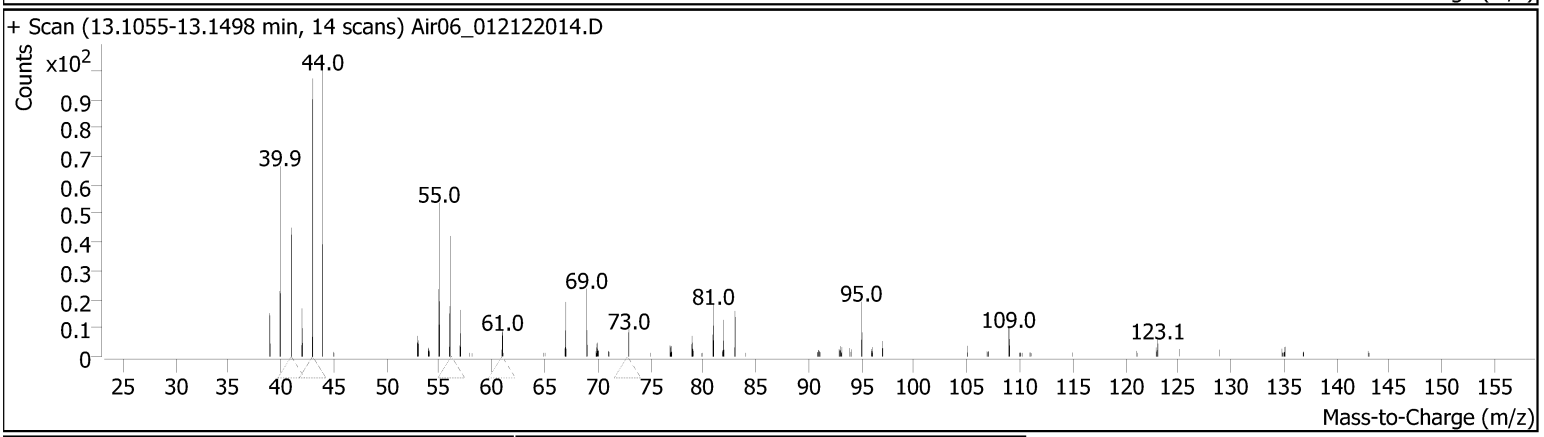



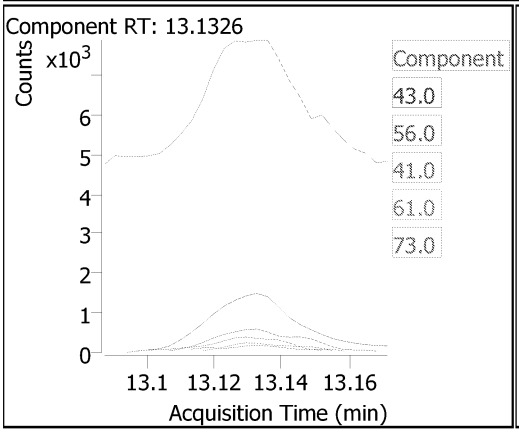



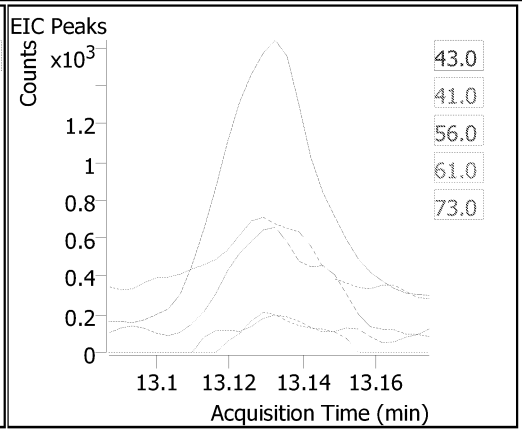
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.1326 | Acetic acid, butyl ester | 7219.1 | 79.1 | 123-86-4 | C6H12O2 | 0.01513 |

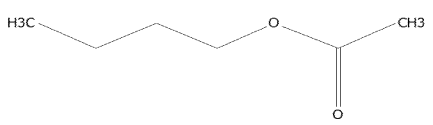


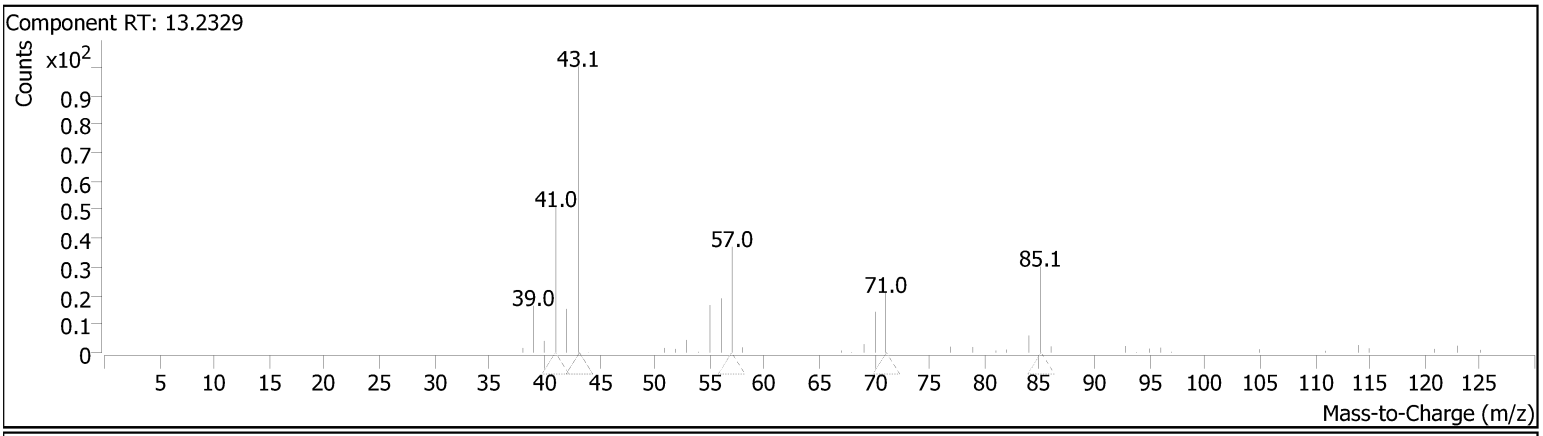



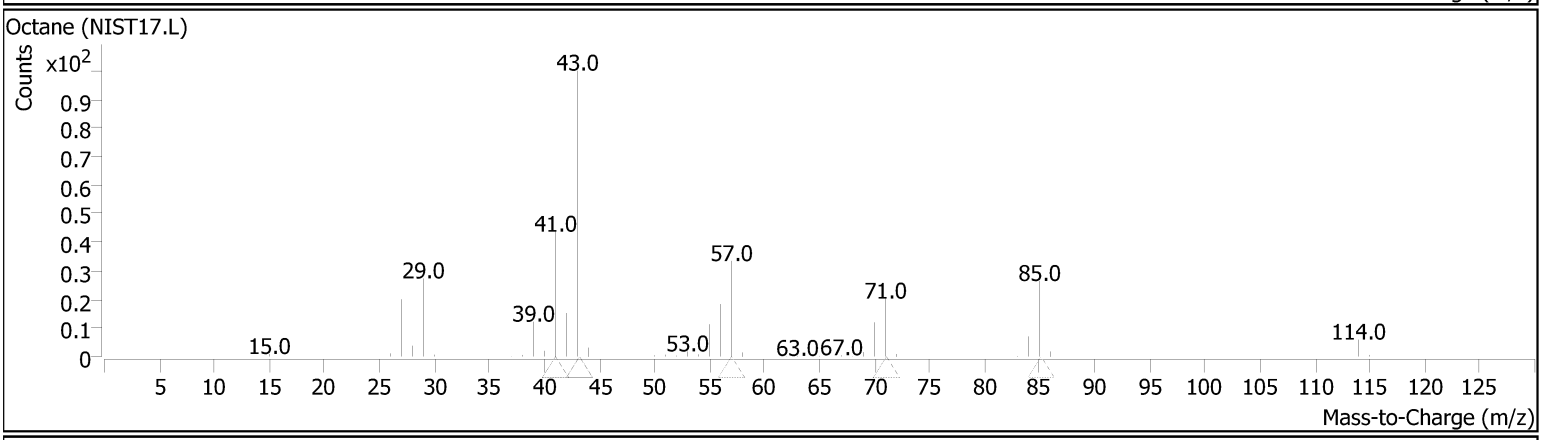



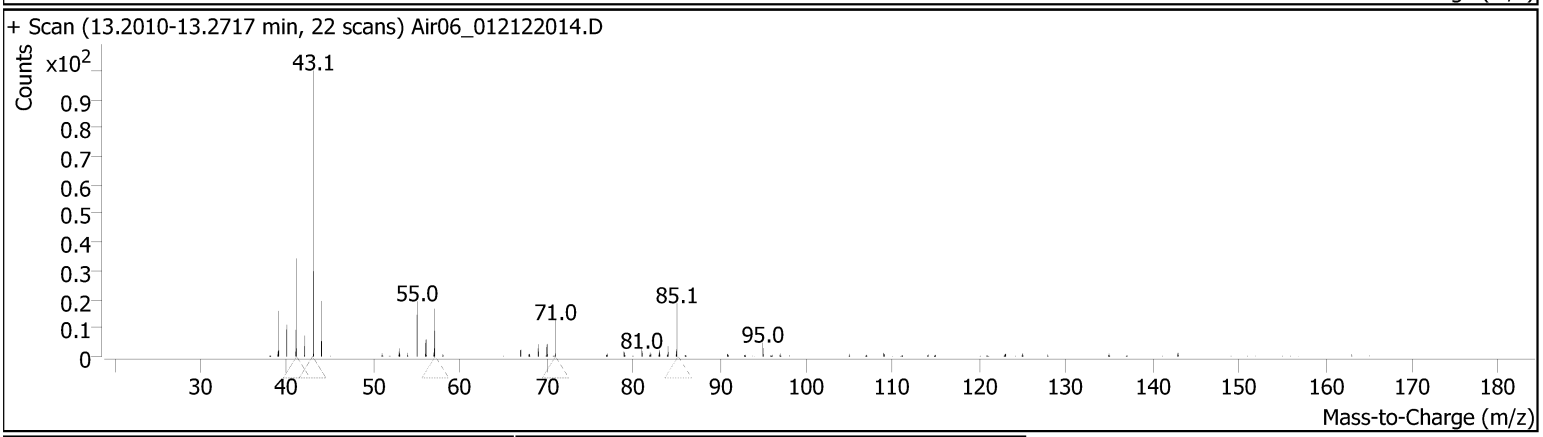



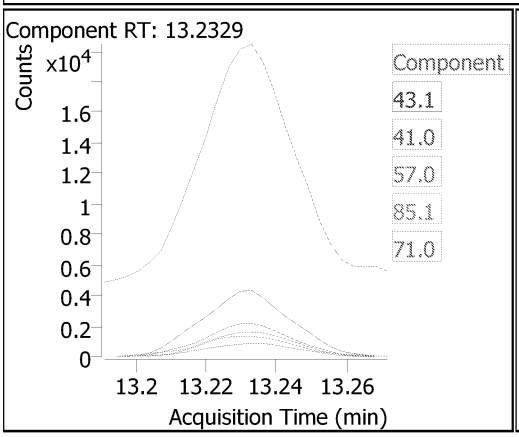



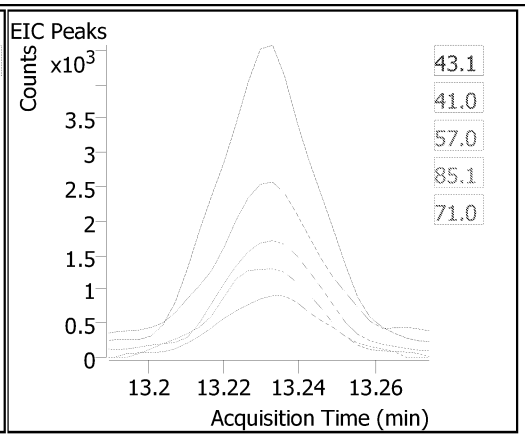
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.2329 | Octane | 28642.1 | 89.9 | 111-65-9 | C8H18 | 0.06004 |



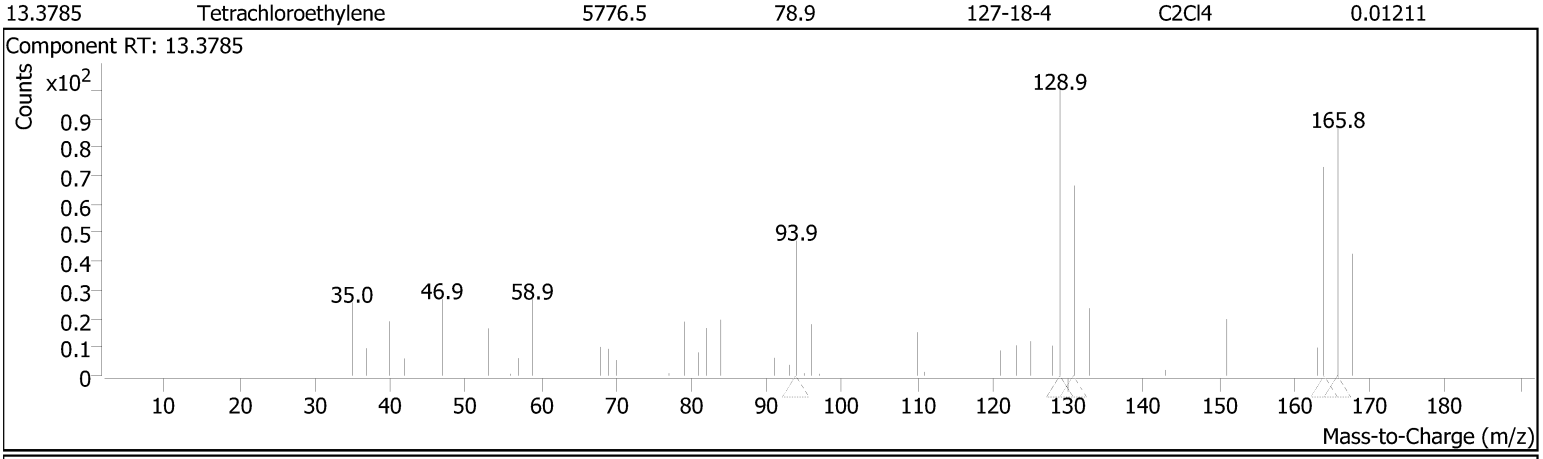



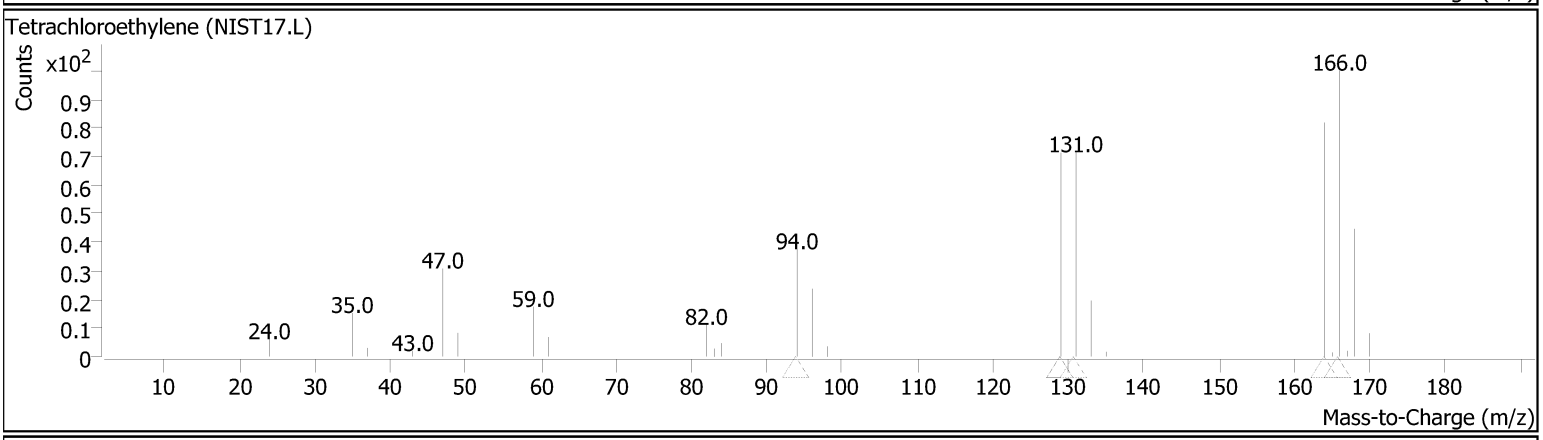



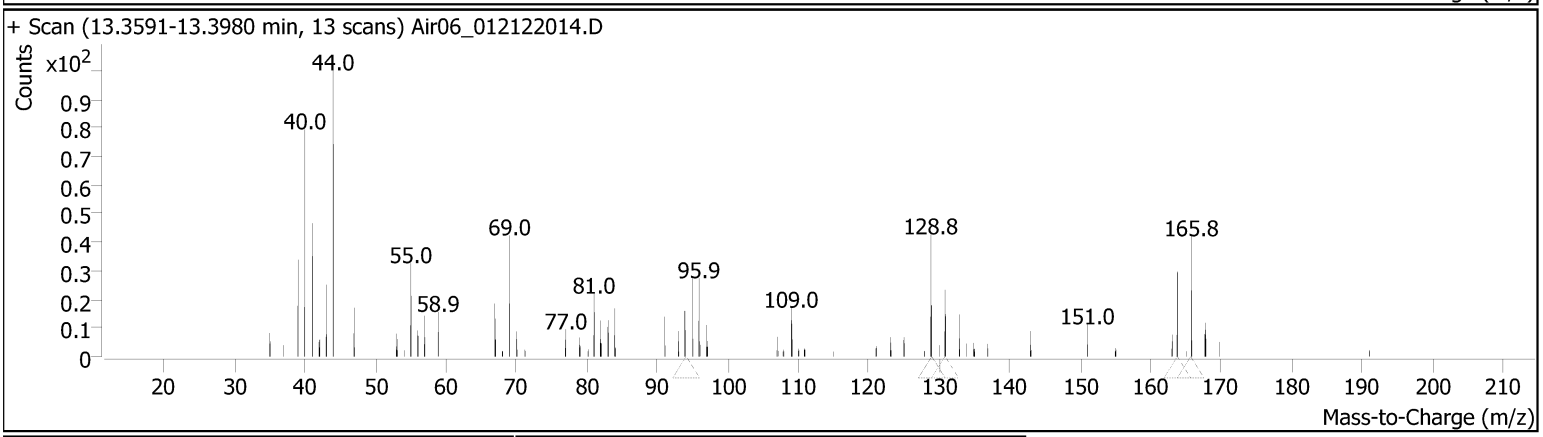



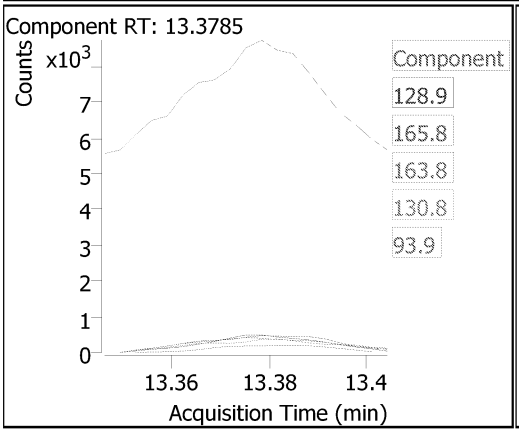


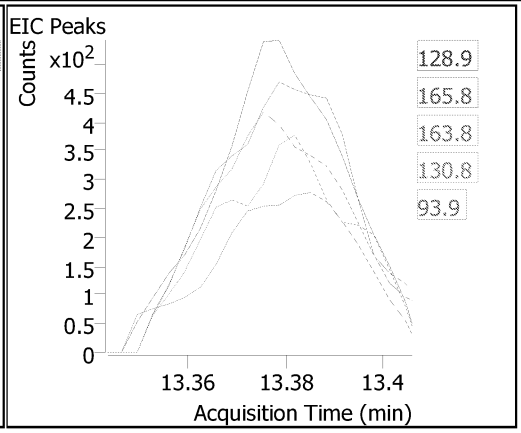

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3785 | Tetrachloroethylene | 5776.5 | 78.9 | 127-18-4 | C2Cl4 | 0.01211 |

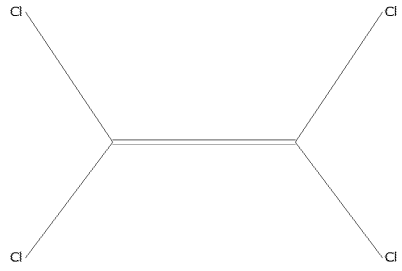


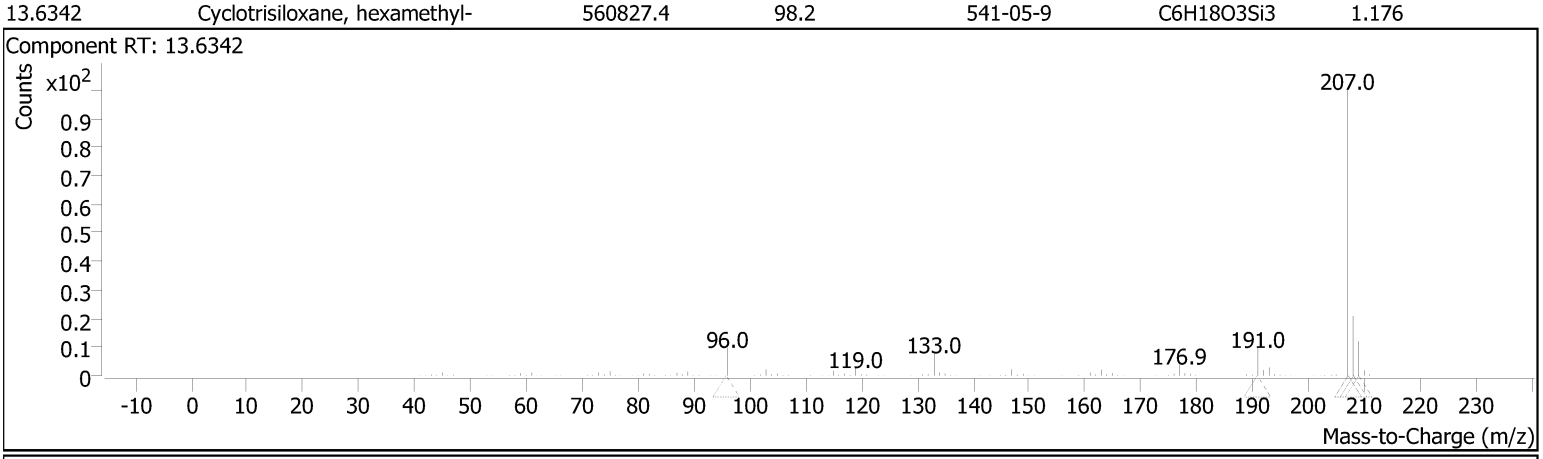



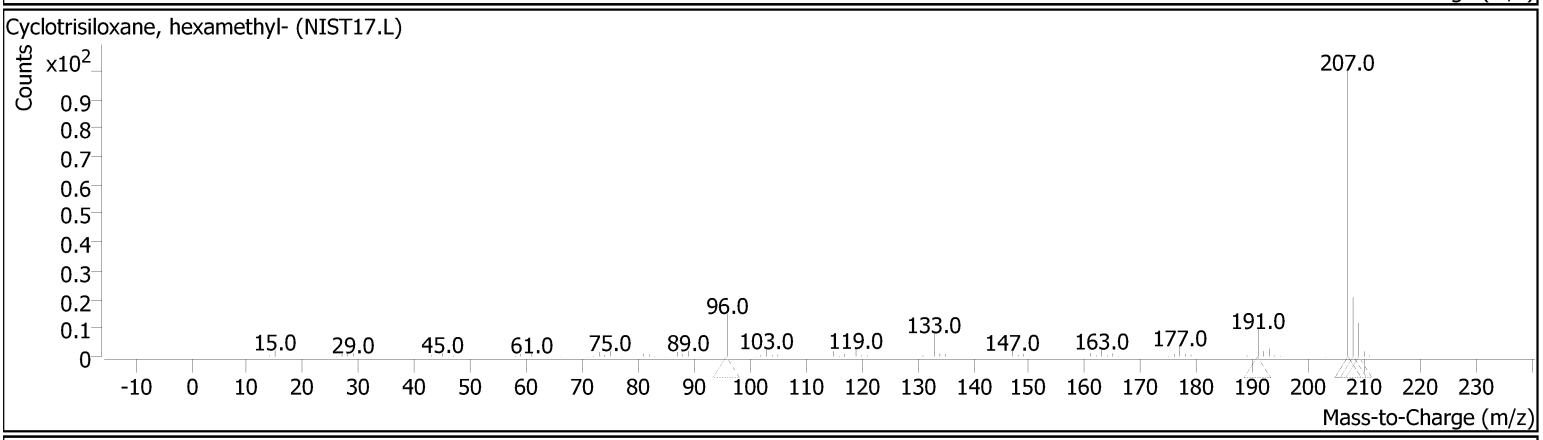



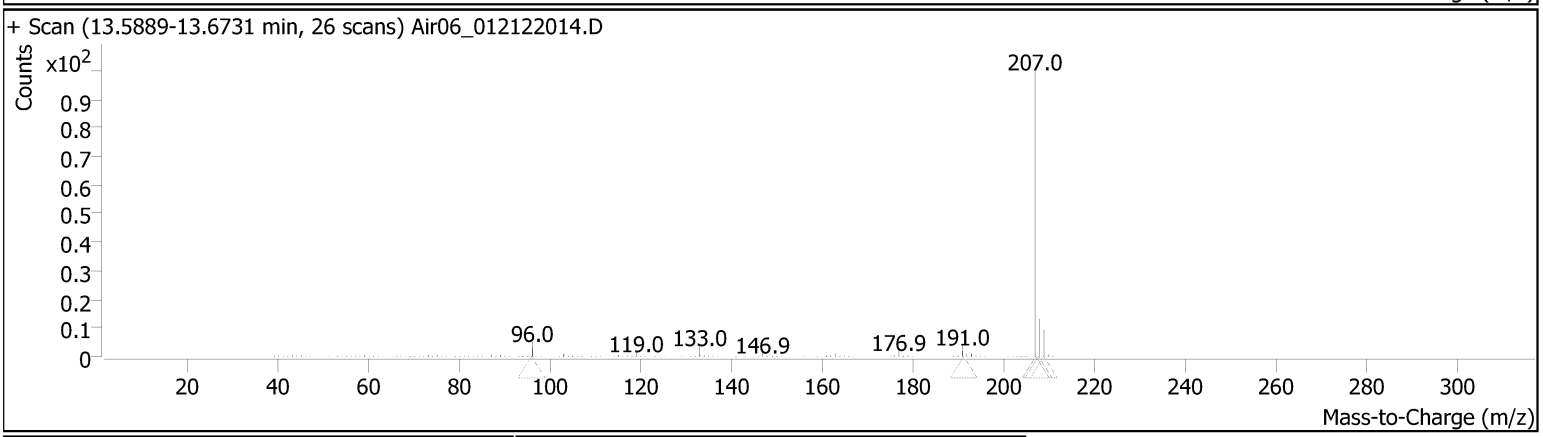



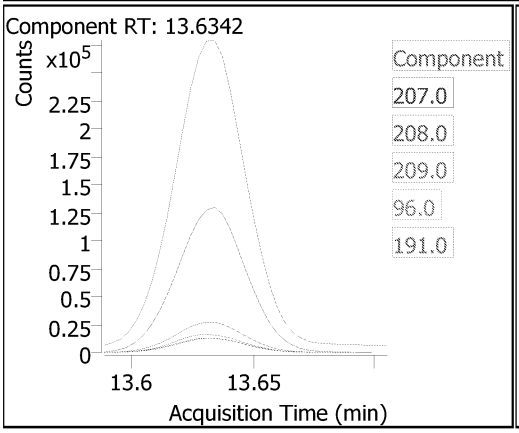



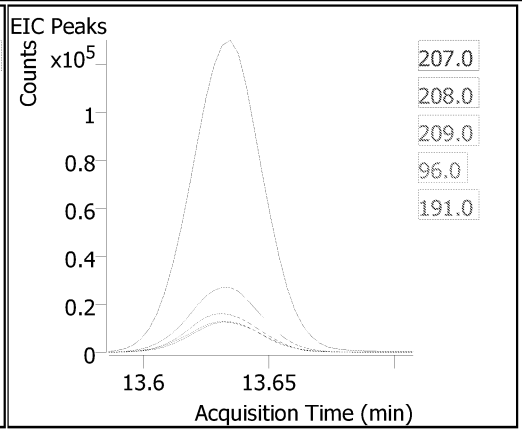
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.6342 | Cyclotrisiloxane, hexamethyl- | 560827.4 | 98.2 | 541-05-9 | C6H18O3Si3 | 1.176 |

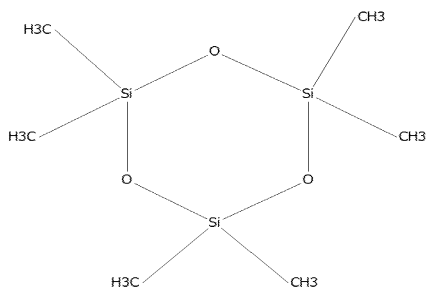


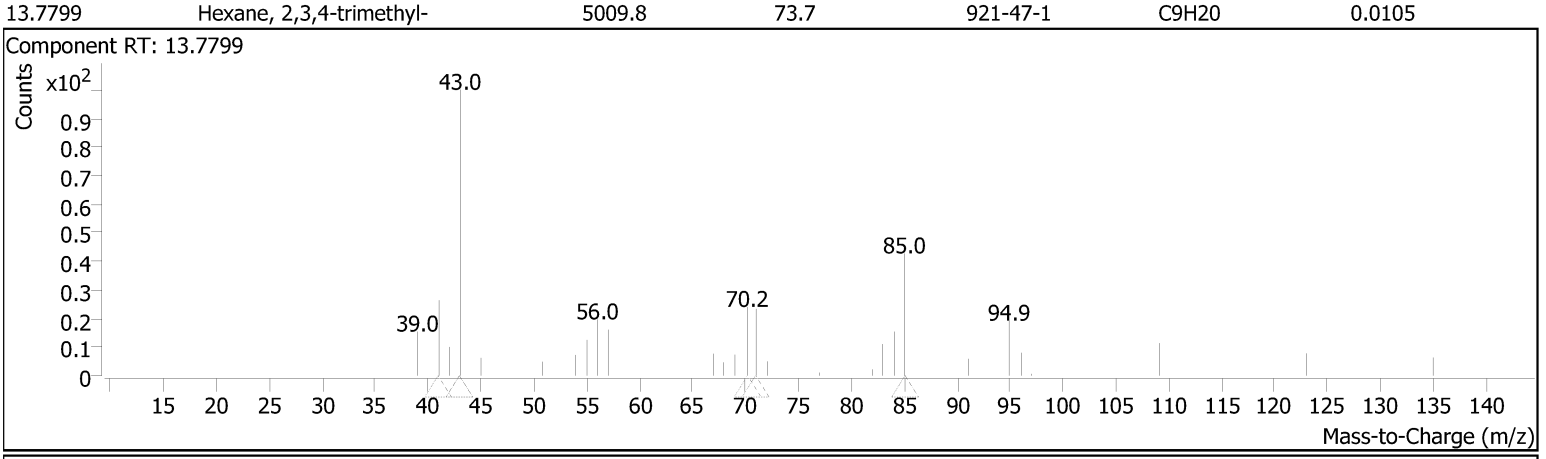



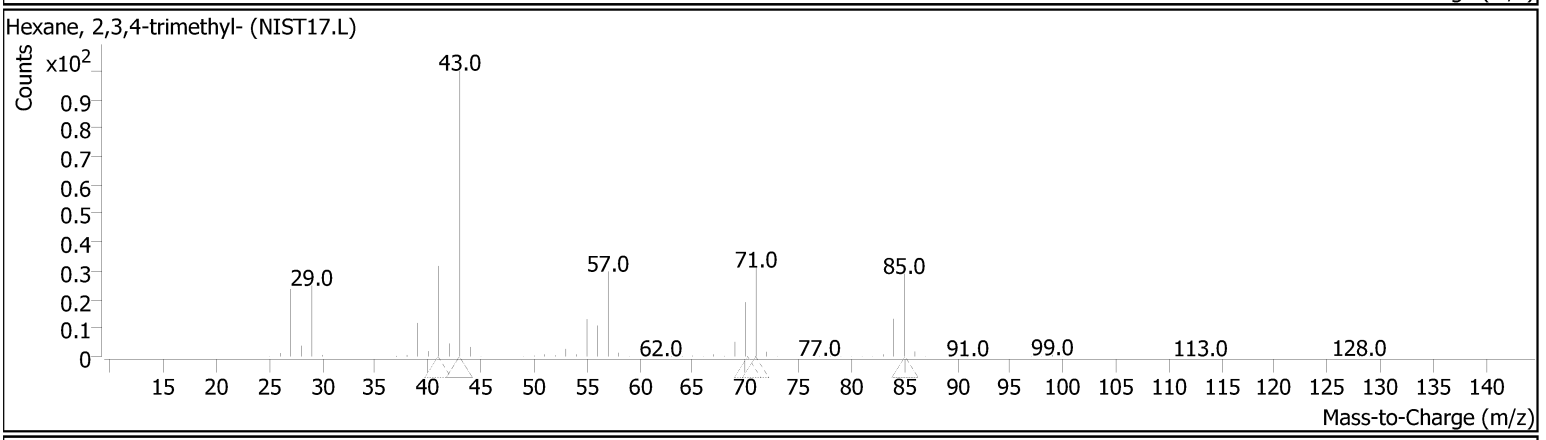



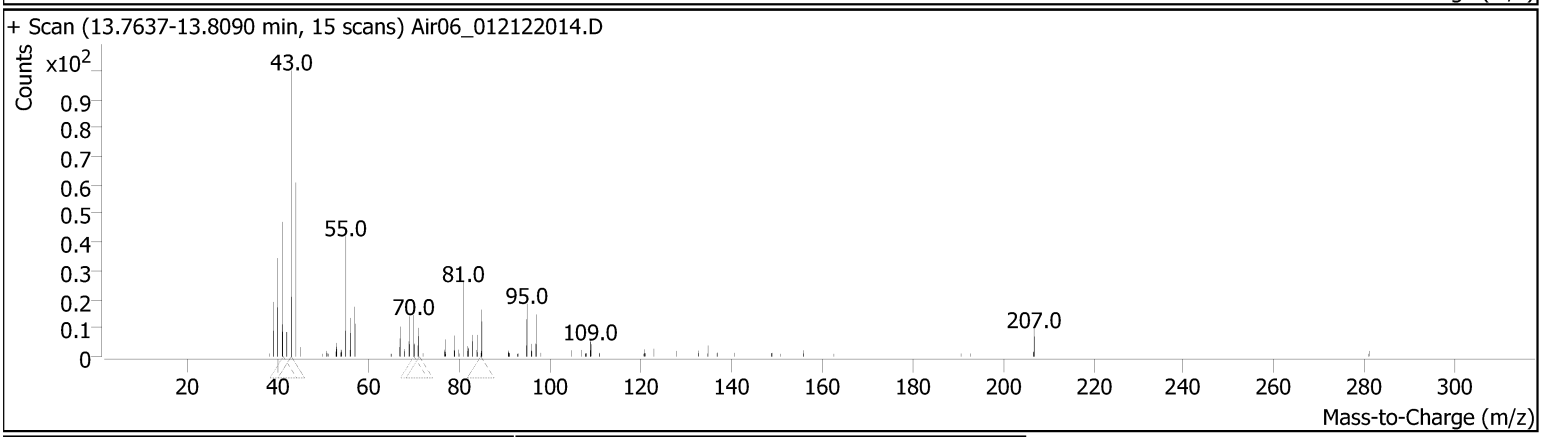



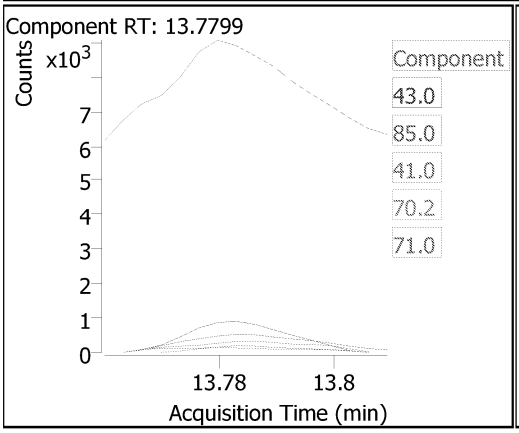



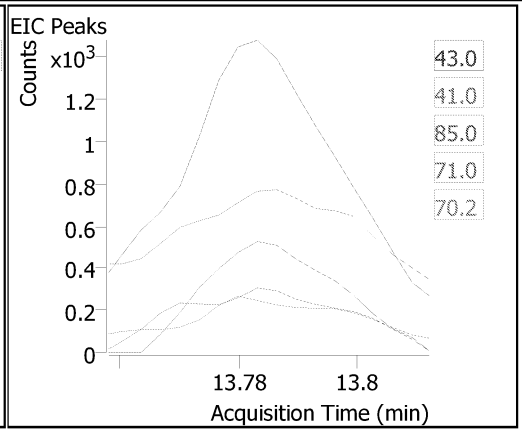
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.7799 | Hexane, 2,3,4-trimethyl- | 5009.8 | 73.7 | 921-47-1 | C9H20 | 0.0105 |

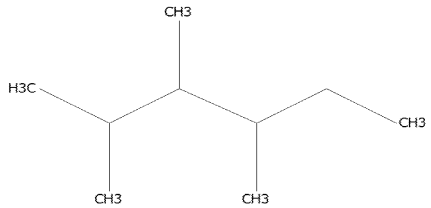


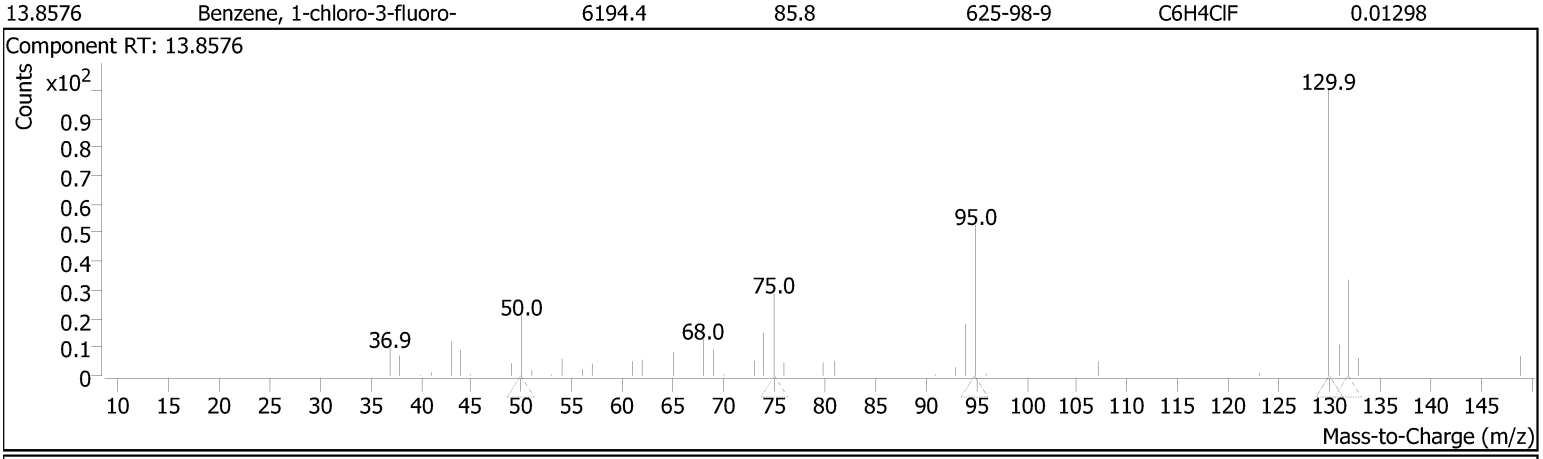



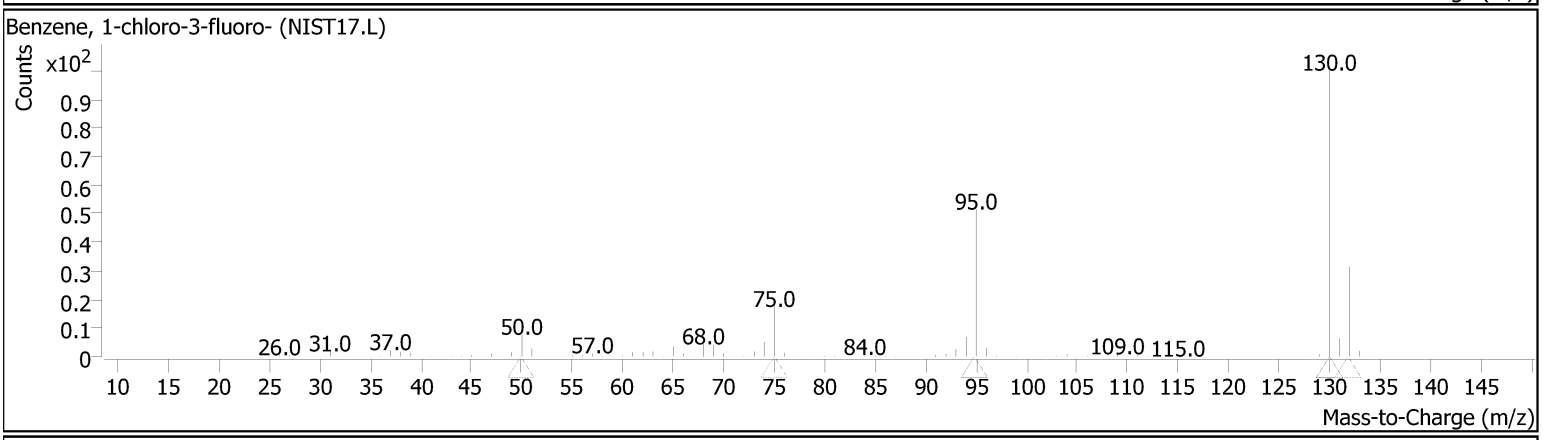



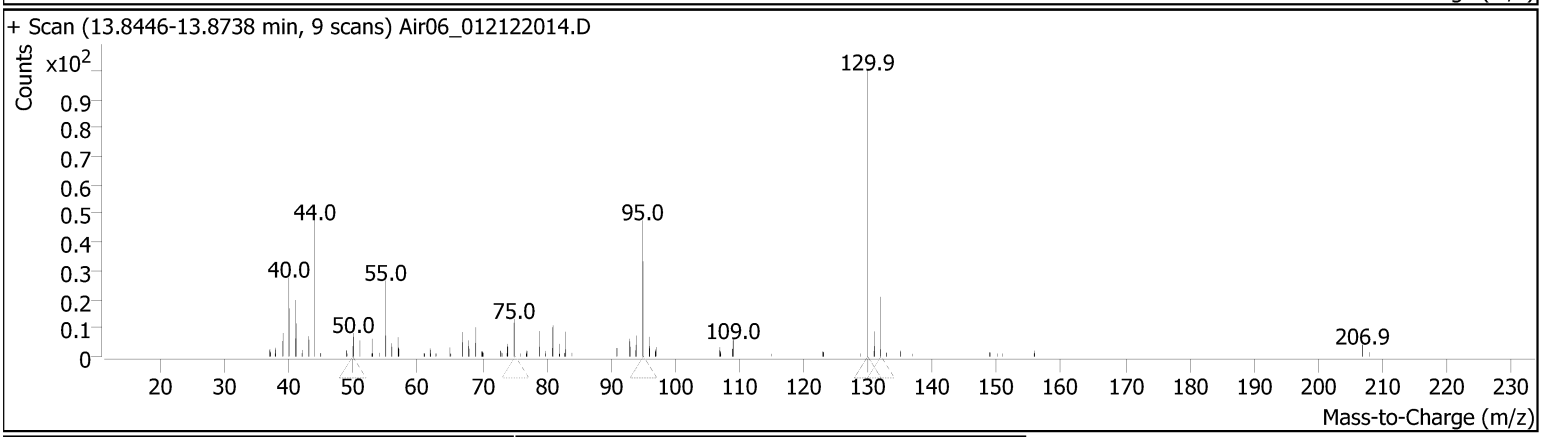



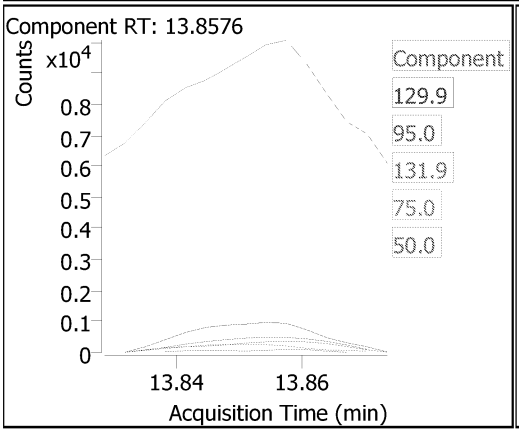



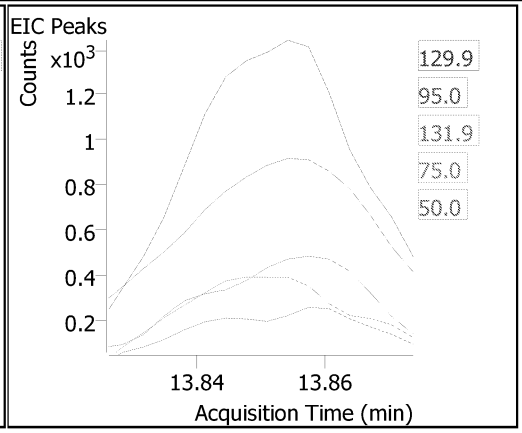
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.8576 | Benzene, 1-chloro-3-fluoro- | 6194.4 | 85.8 | 625-98-9 | C6H4ClF | 0.01298 |

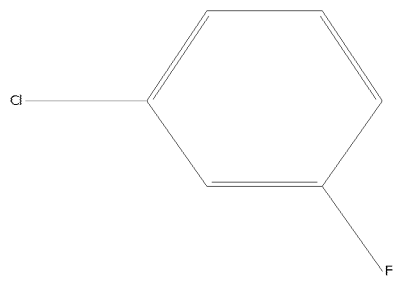


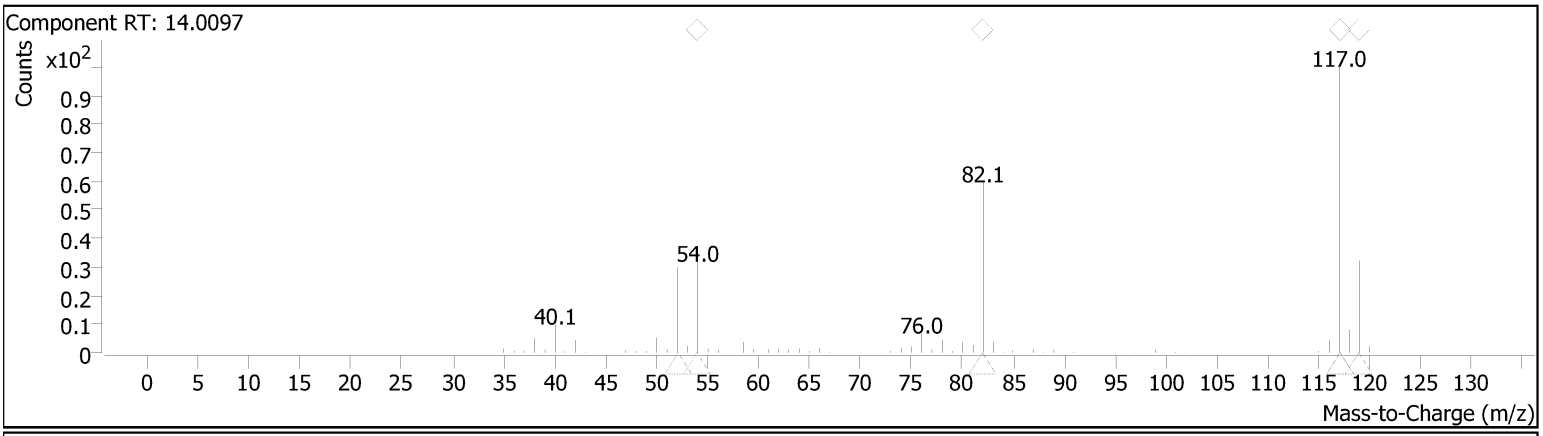



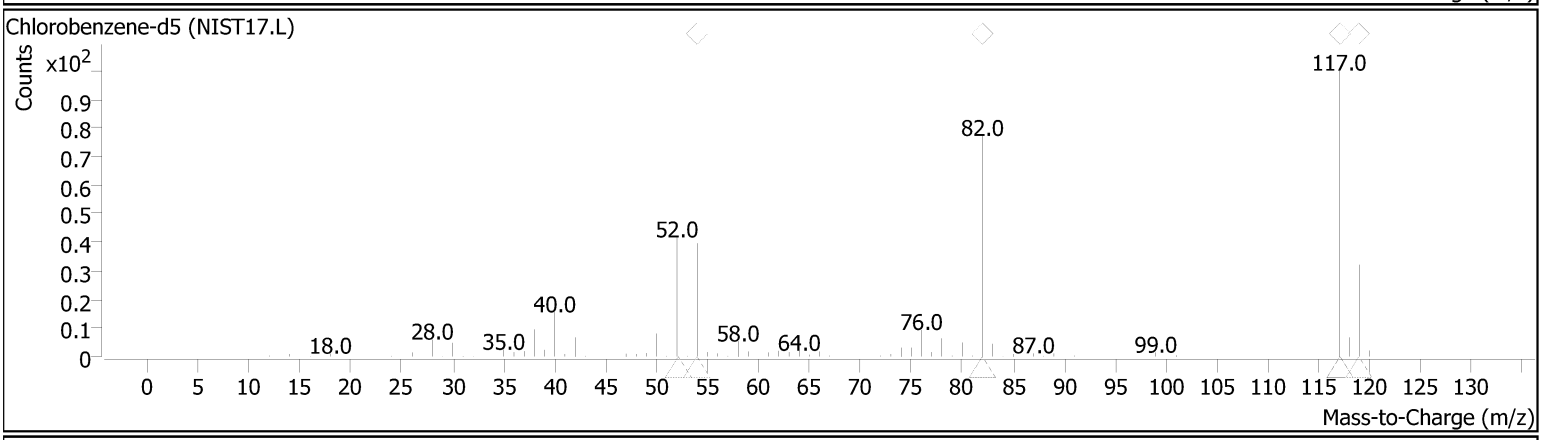



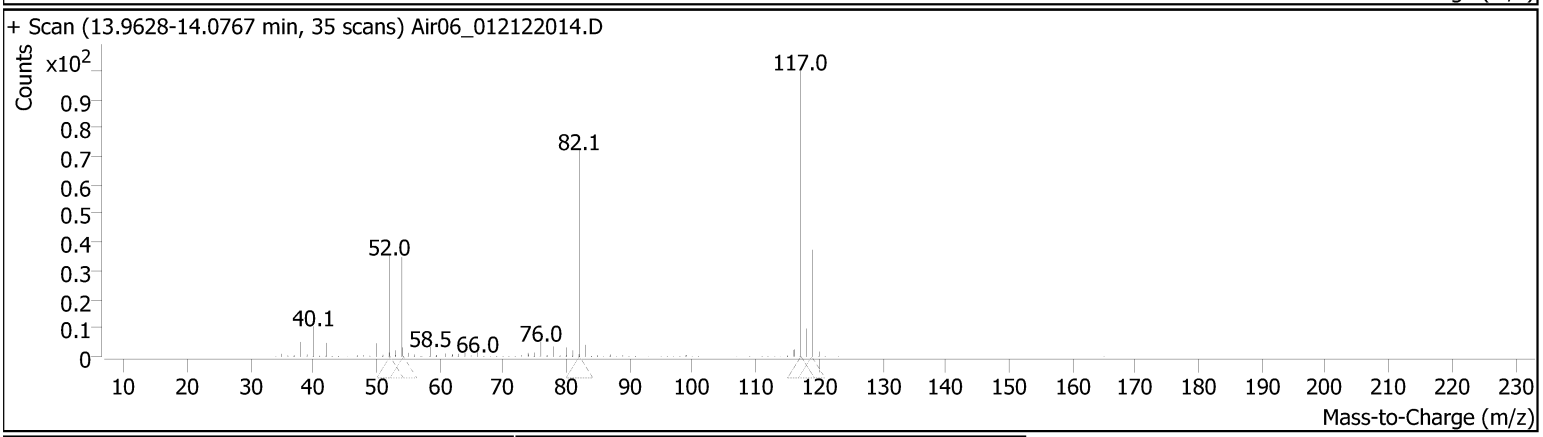



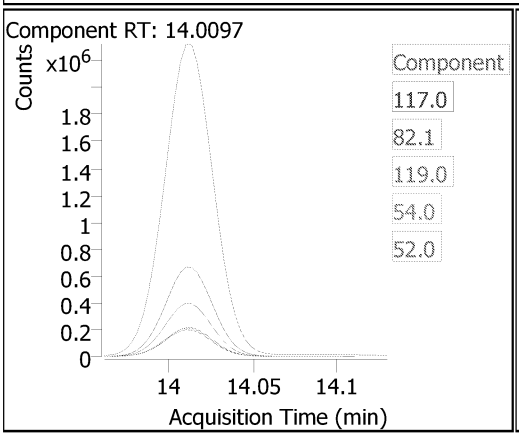



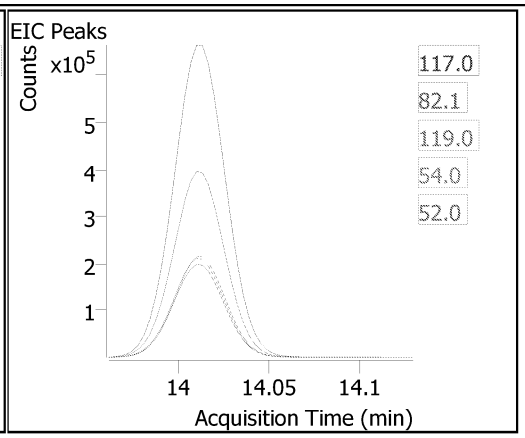
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0097 | Chlorobenzene-d5 | 4770579.8 | 95.8 | 3114-55-4 | C6D5Cl | 10 |

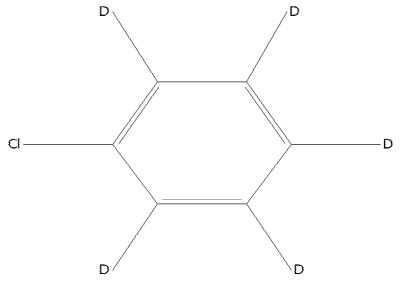


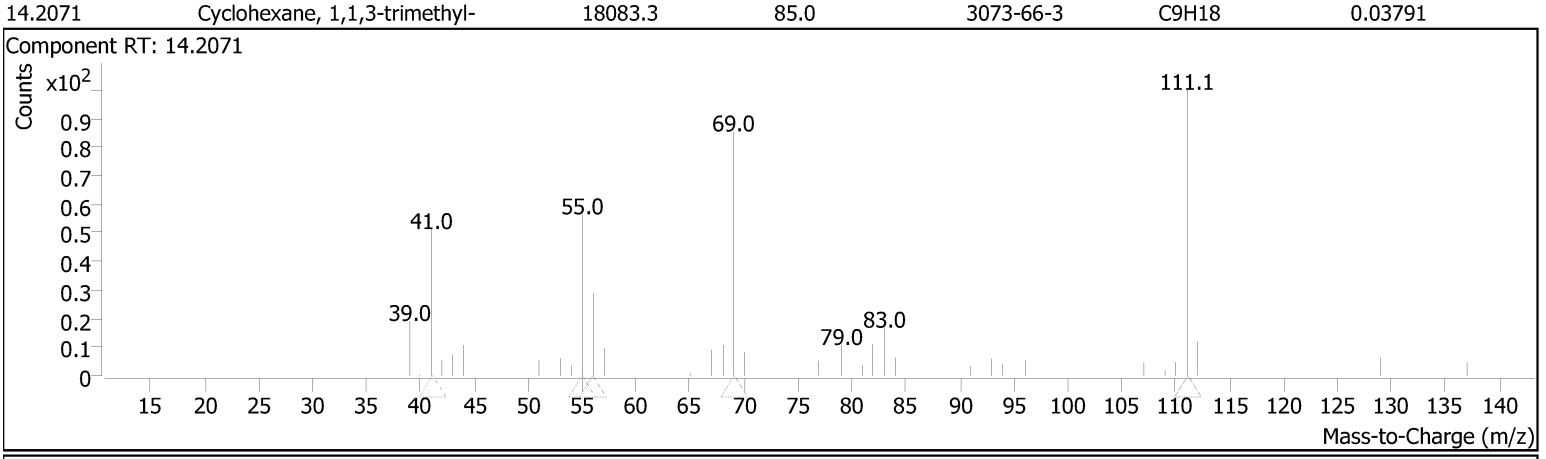



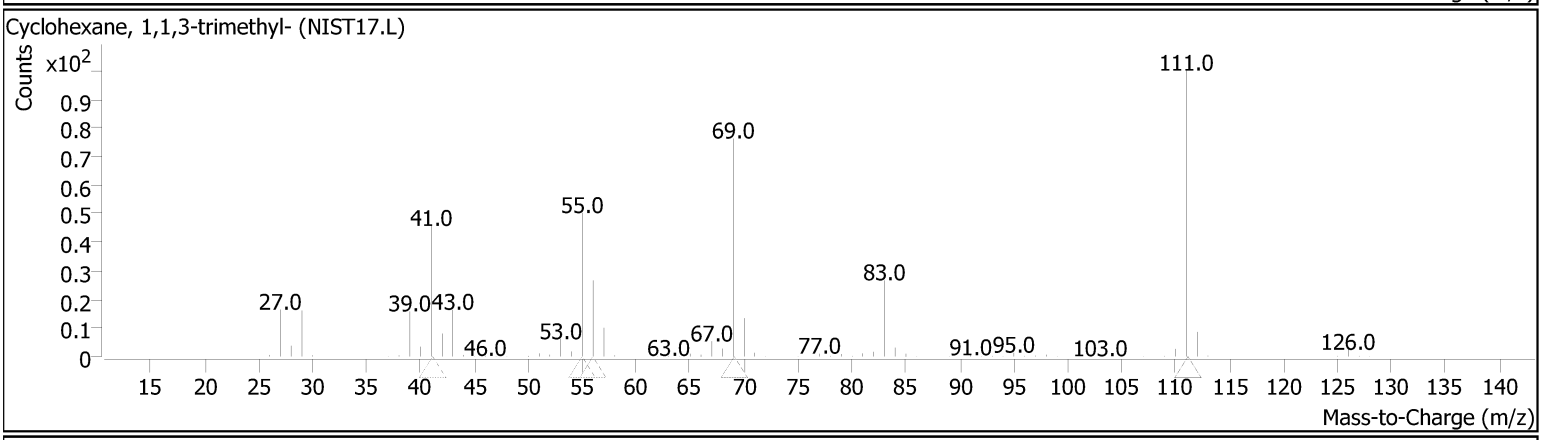



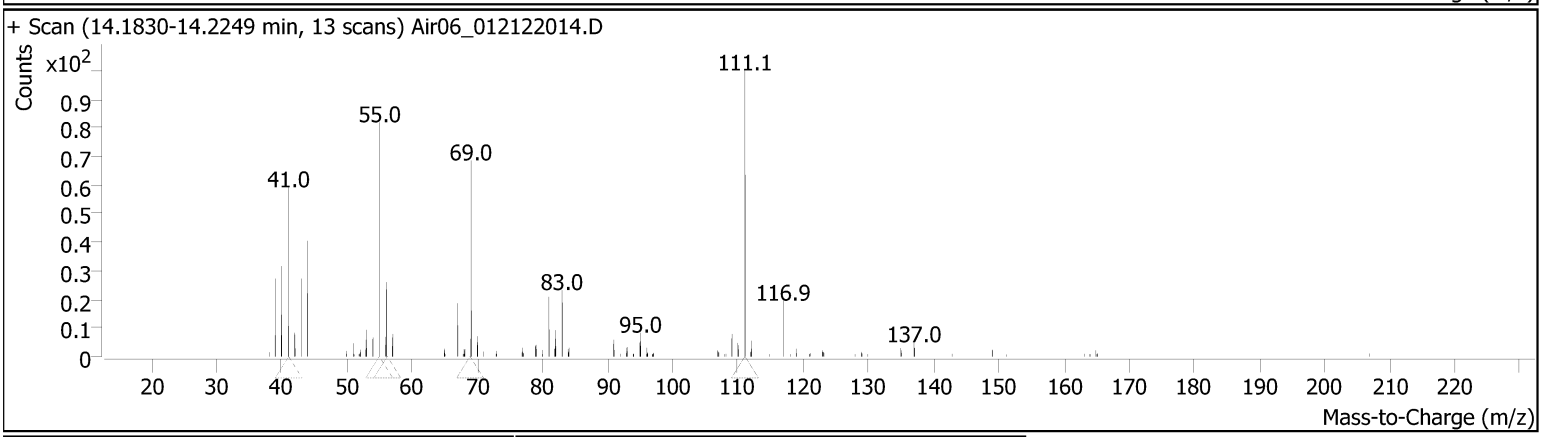



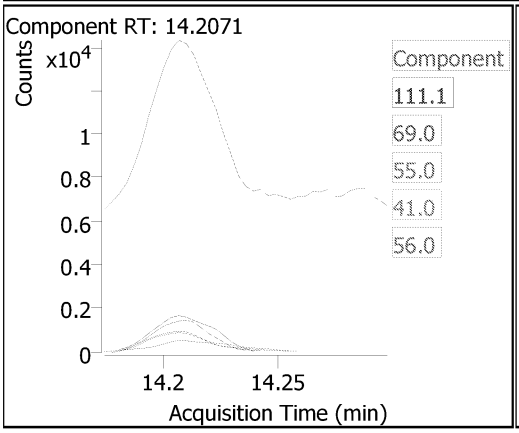



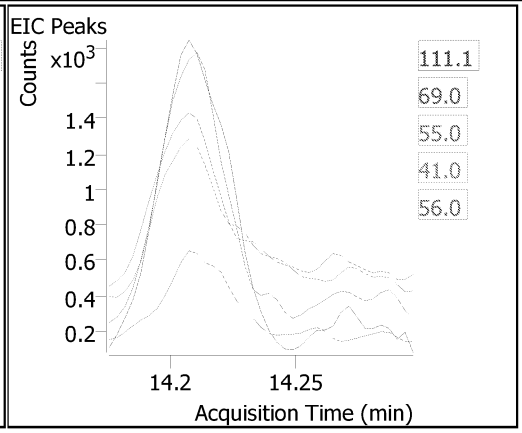
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.2071 | Cyclohexane, 1,1,3-trimethyl- | 18083.3 | 85.0 | 3073-66-3 | C9H18 | 0.03791 |

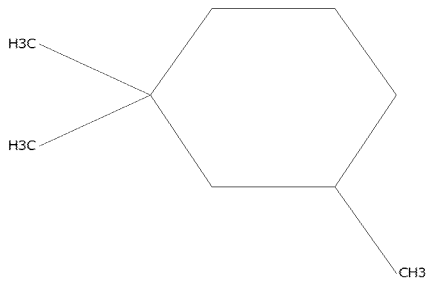


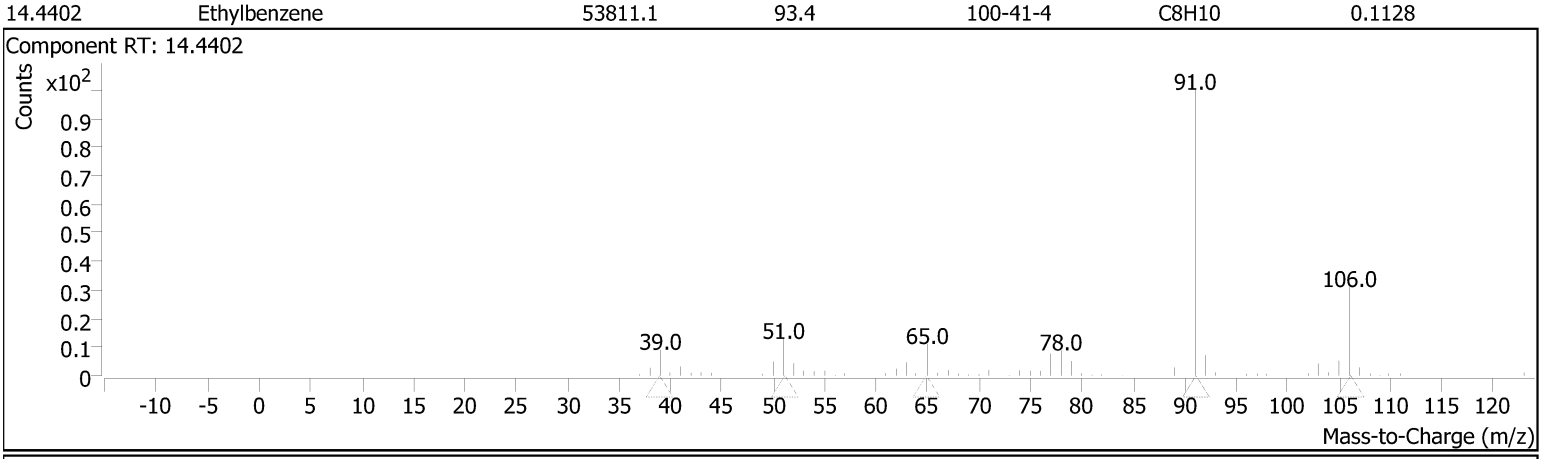



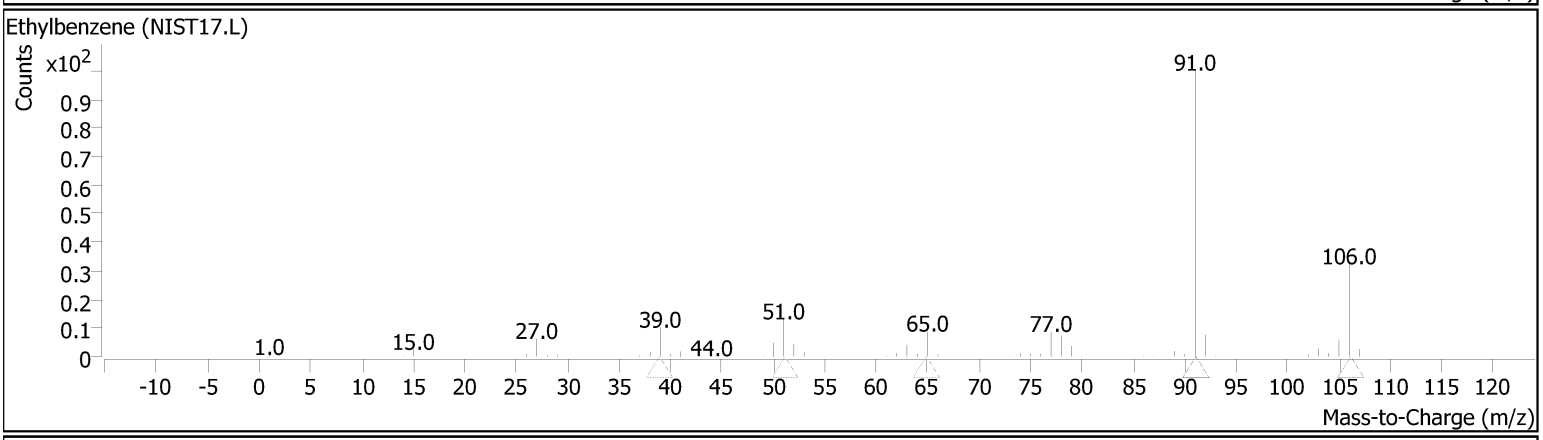



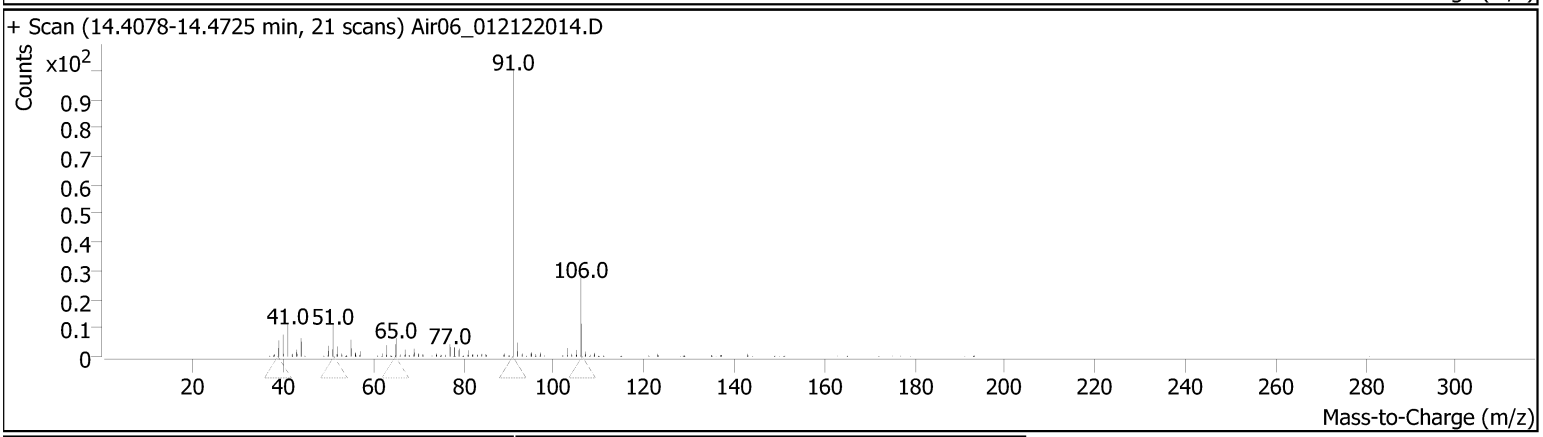



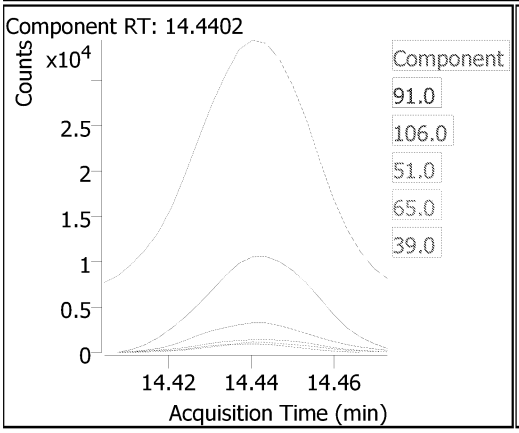



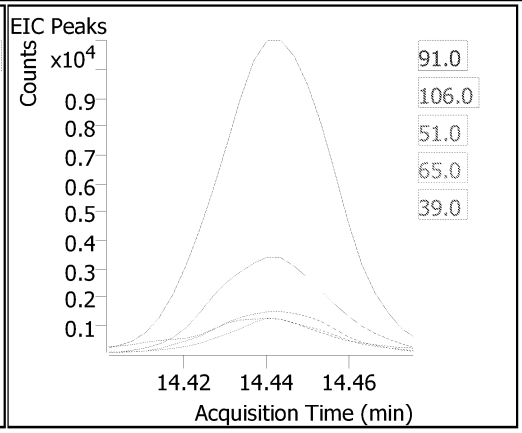
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.4402 | Ethylbenzene | 53811.1 | 93.4 | 100-41-4 | C8H10 | 0.1128 |

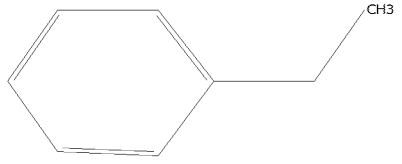


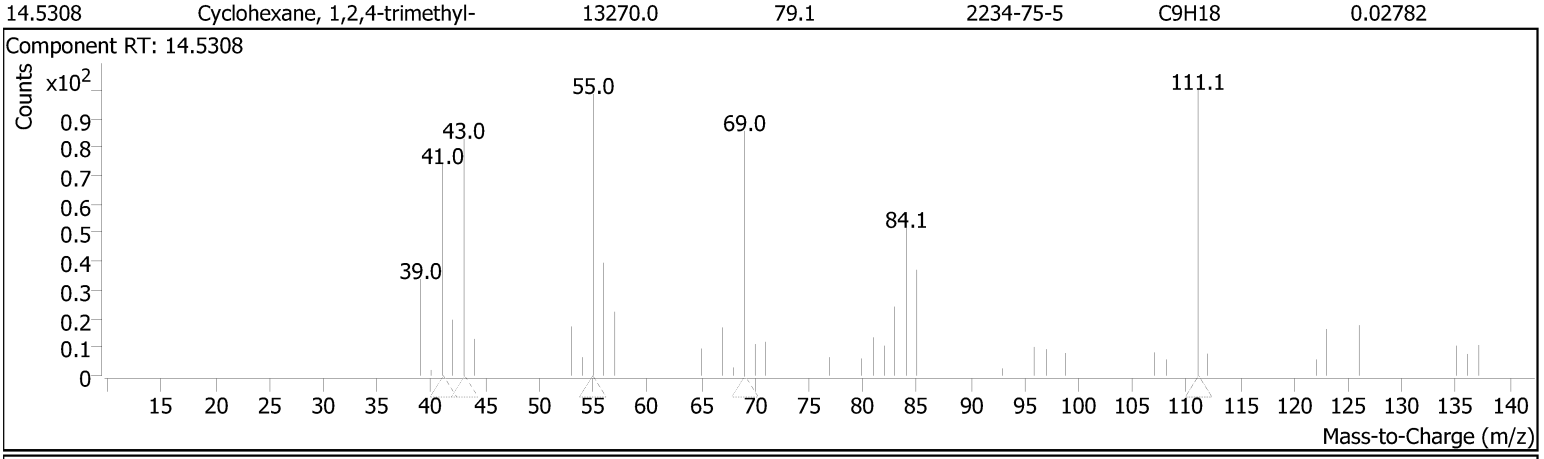



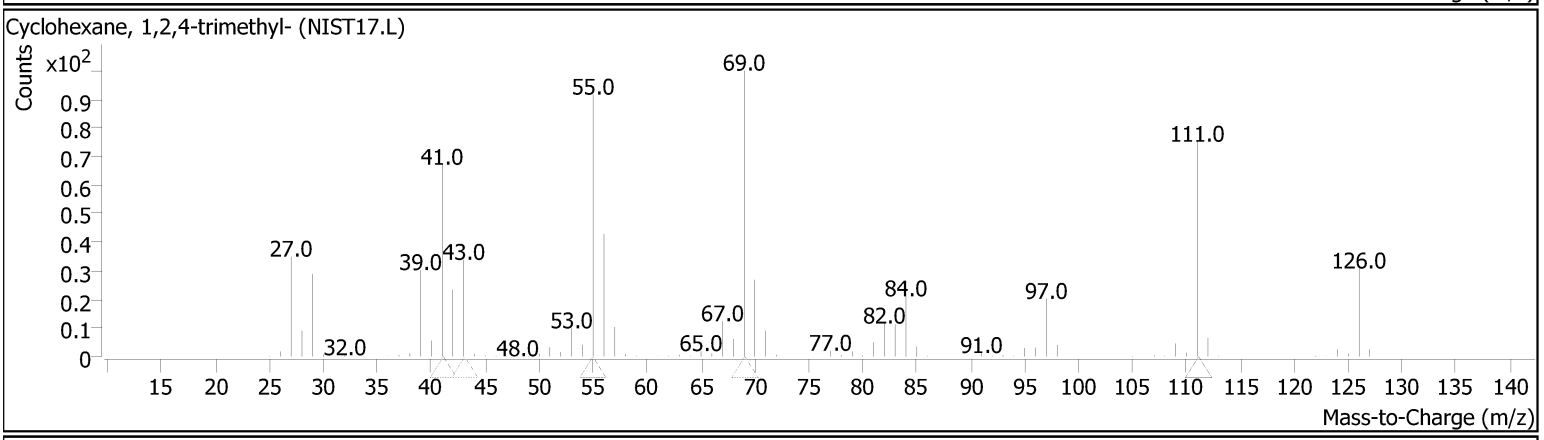



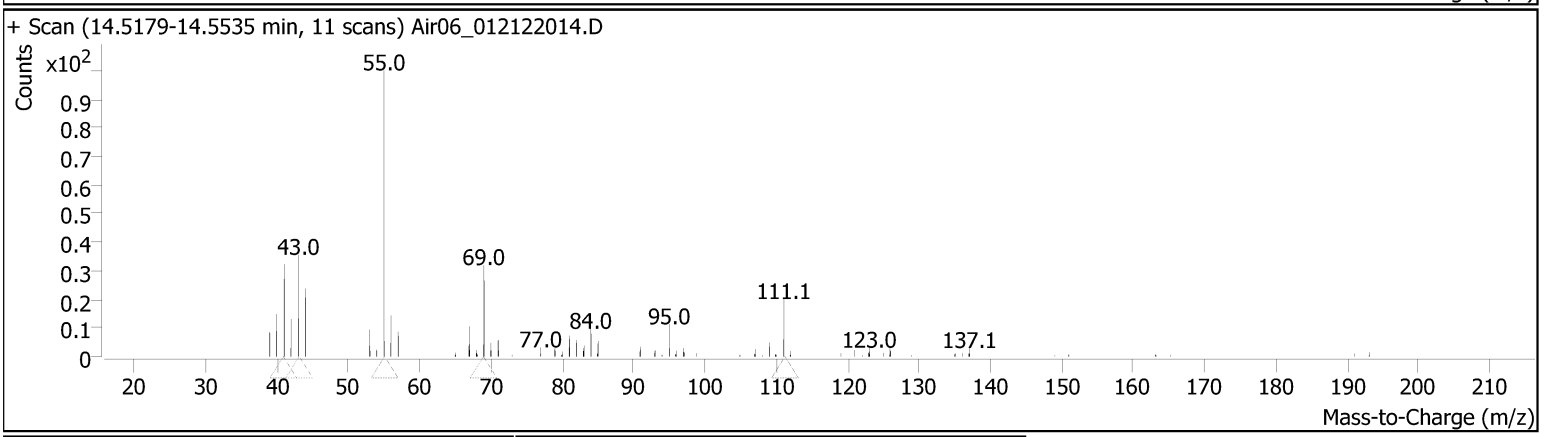



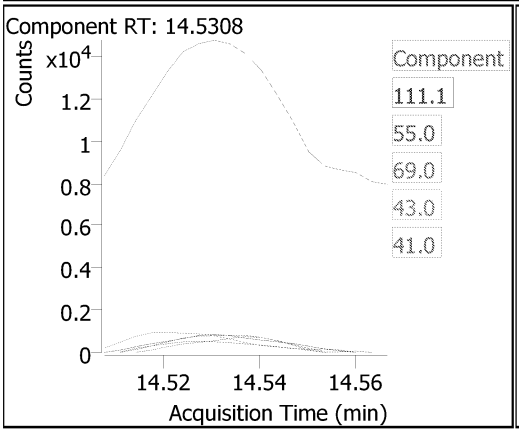



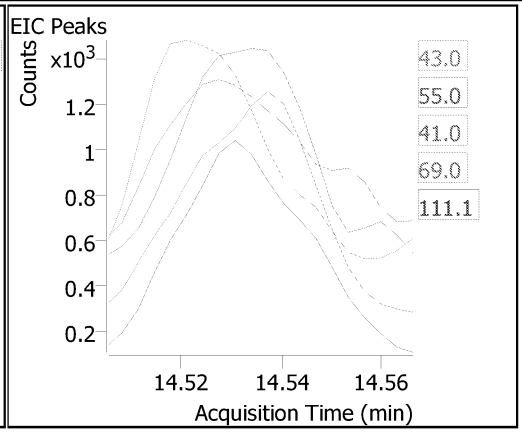
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.5308 | Cyclohexane, 1,2,4-trimethyl- | 13270.0 | 79.1 | 2234-75-5 | C9H18 | 0.02782 |

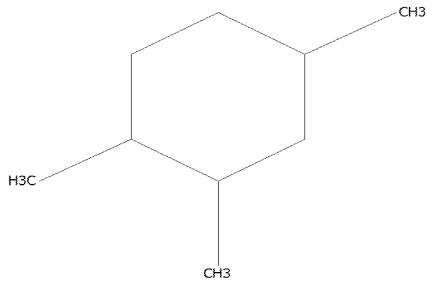


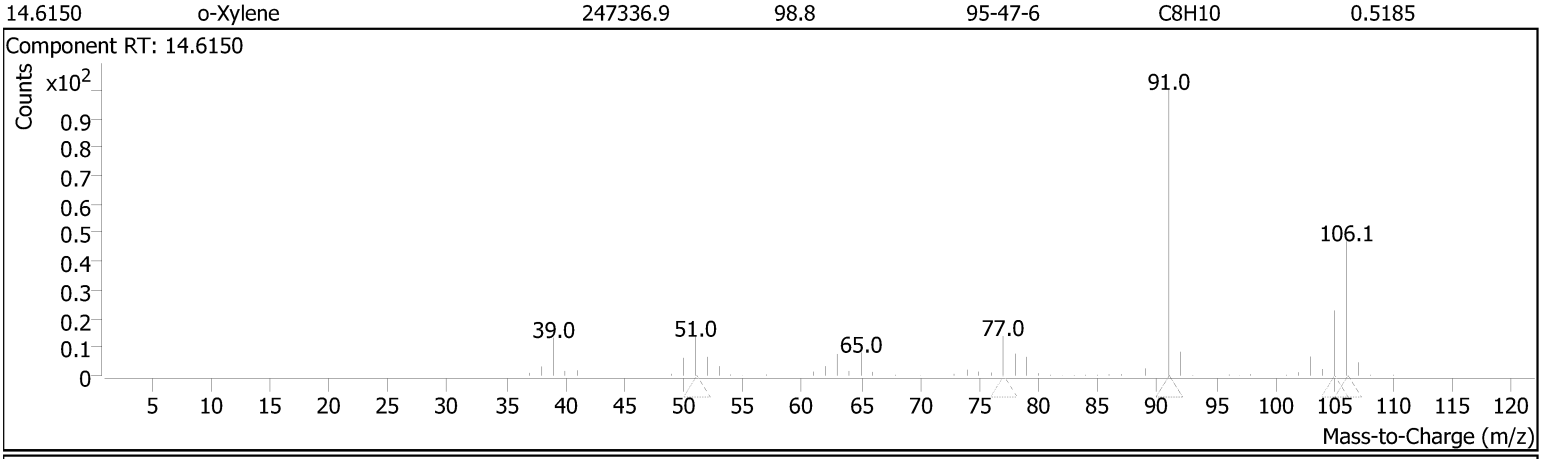



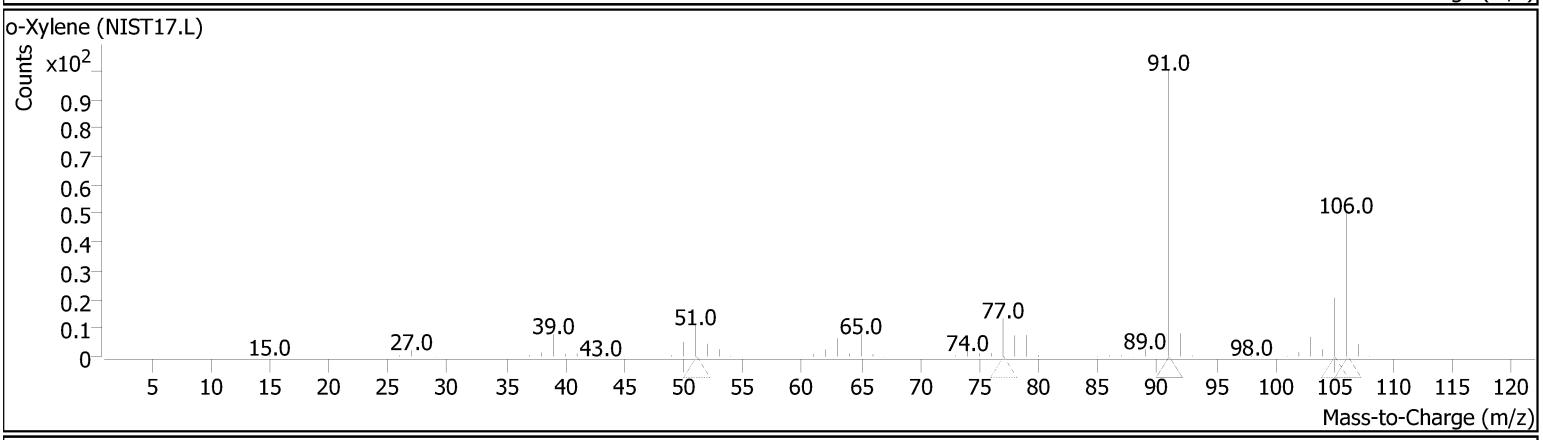



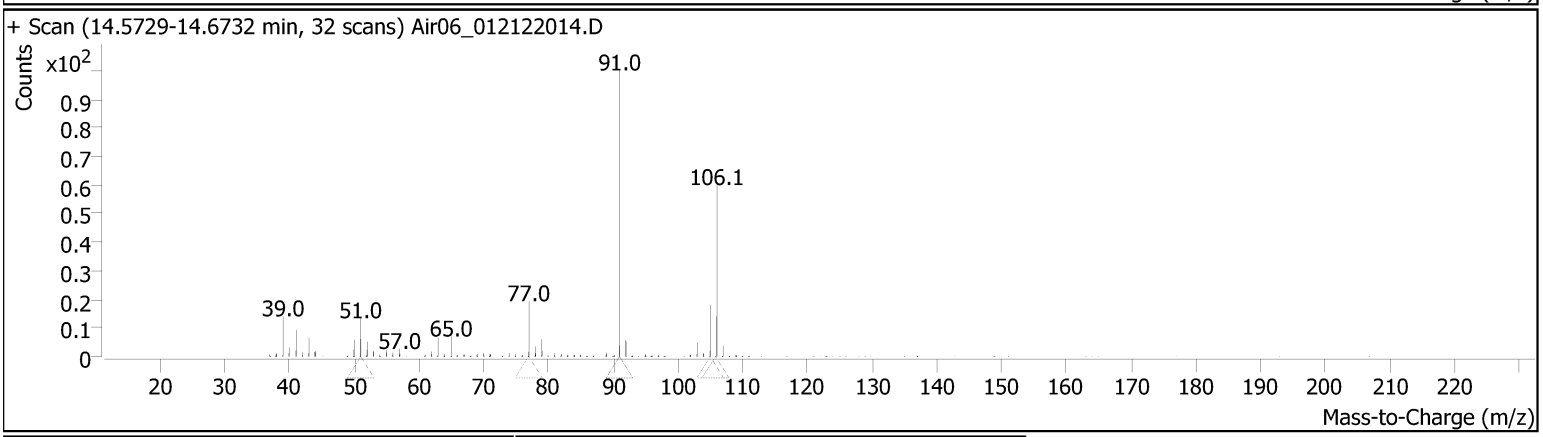



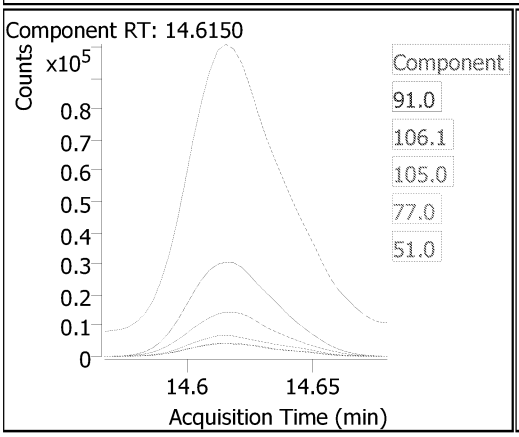



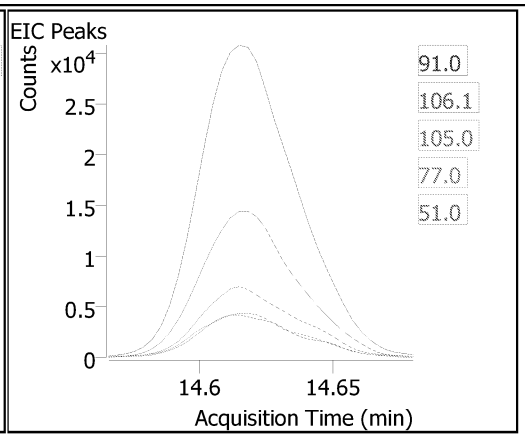
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.6150 | o-Xylene | 247336.9 | 98.8 | 95-47-6 | C8H10 | 0.5185 |

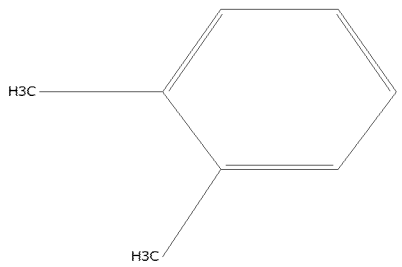


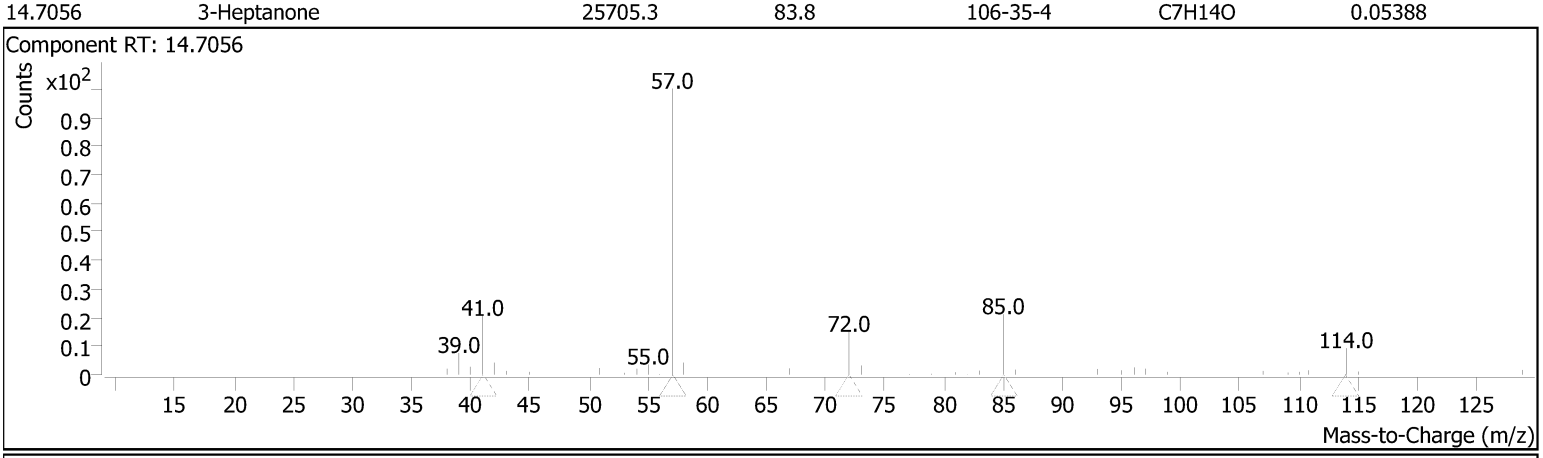



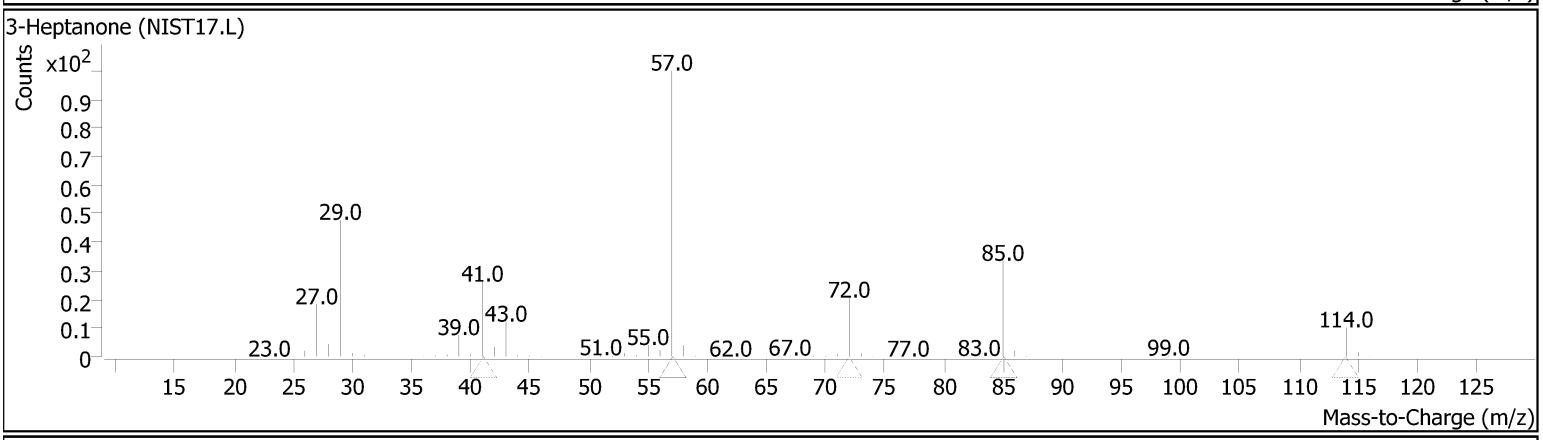



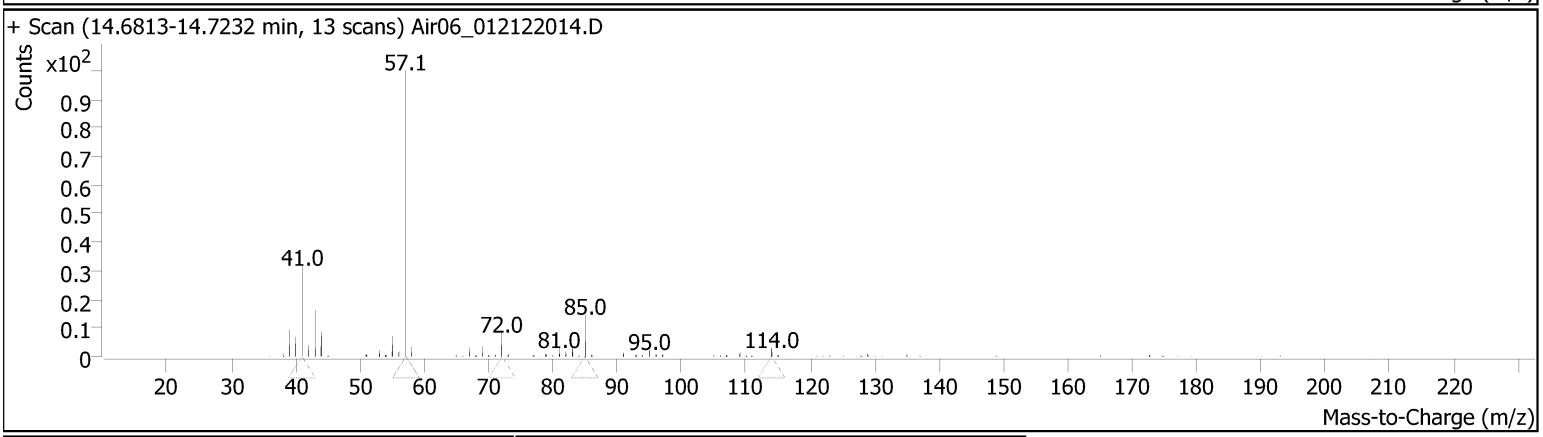



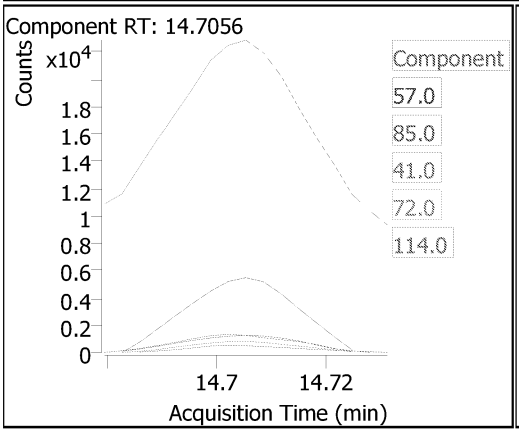



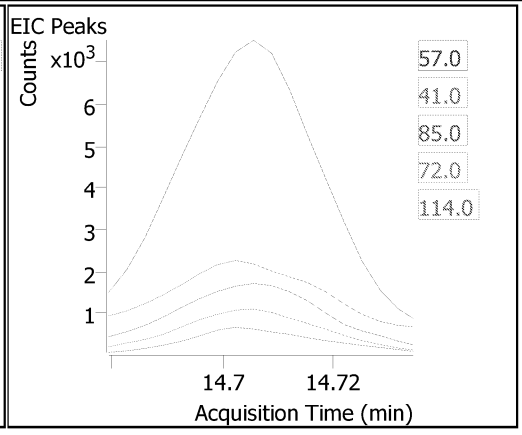
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.7056 | 3-Heptanone | 25705.3 | 83.8 | 106-35-4 | C7H14O | 0.05388 |

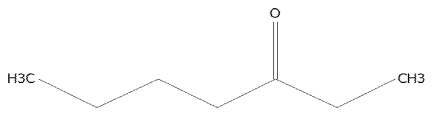


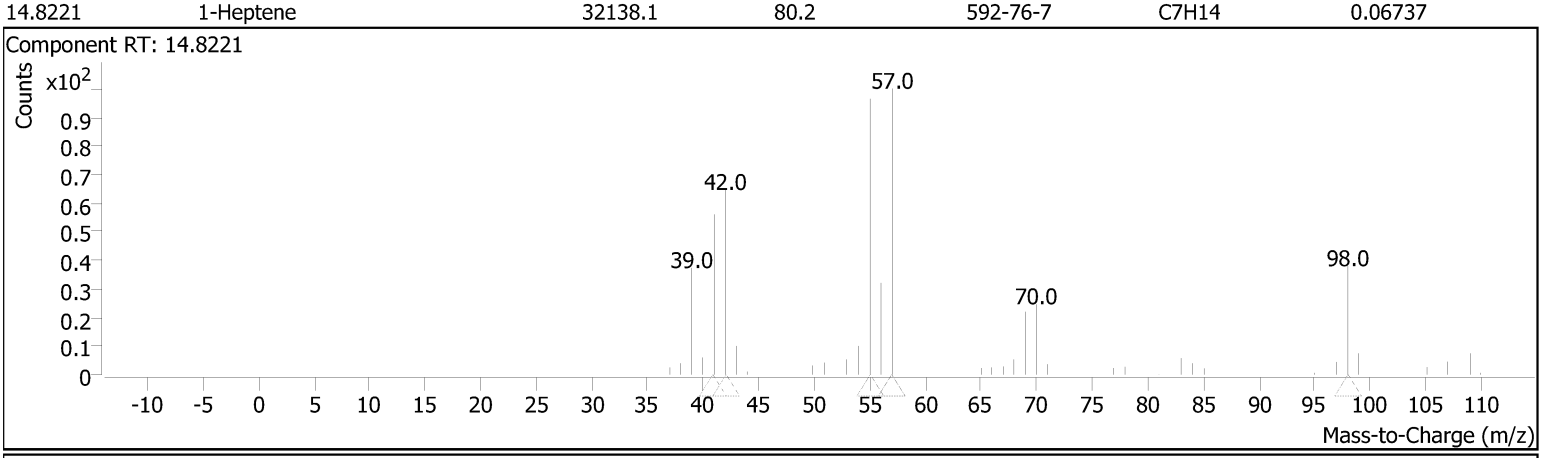



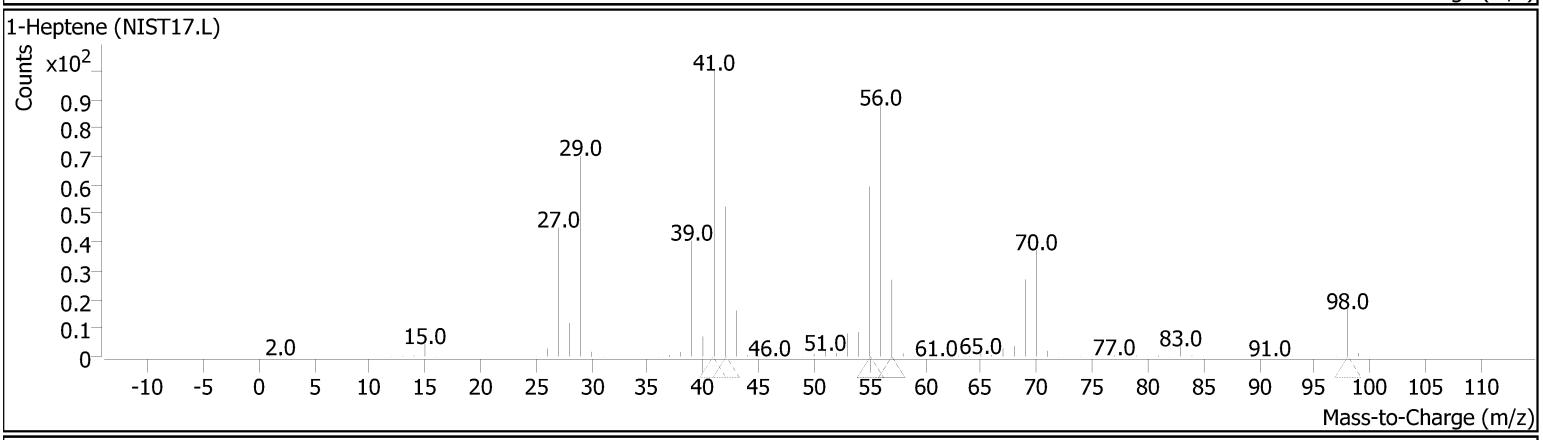



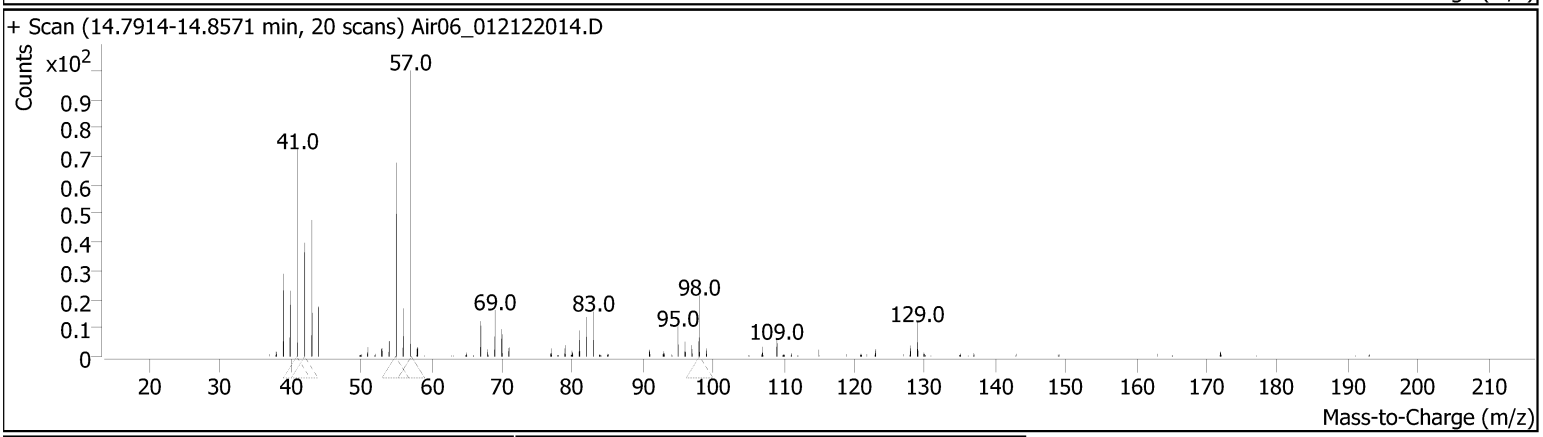



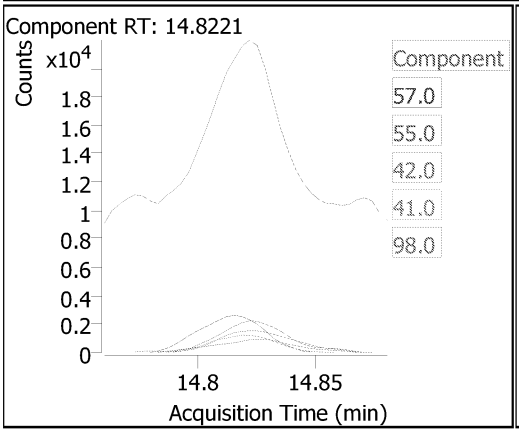



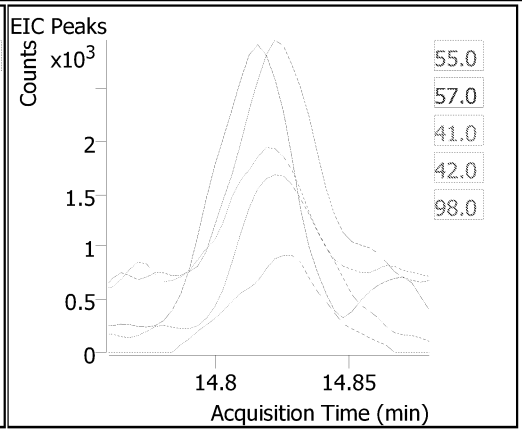
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.8221 | 1-Heptene | 32138.1 | 80.2 | 592-76-7 | C7H14 | 0.06737 |



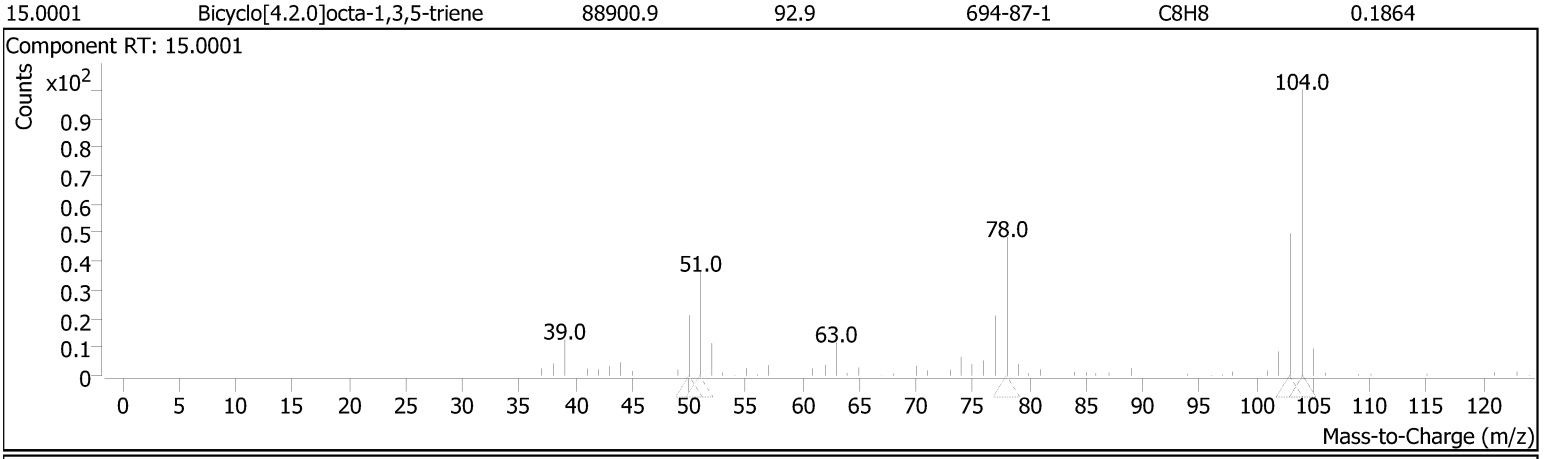



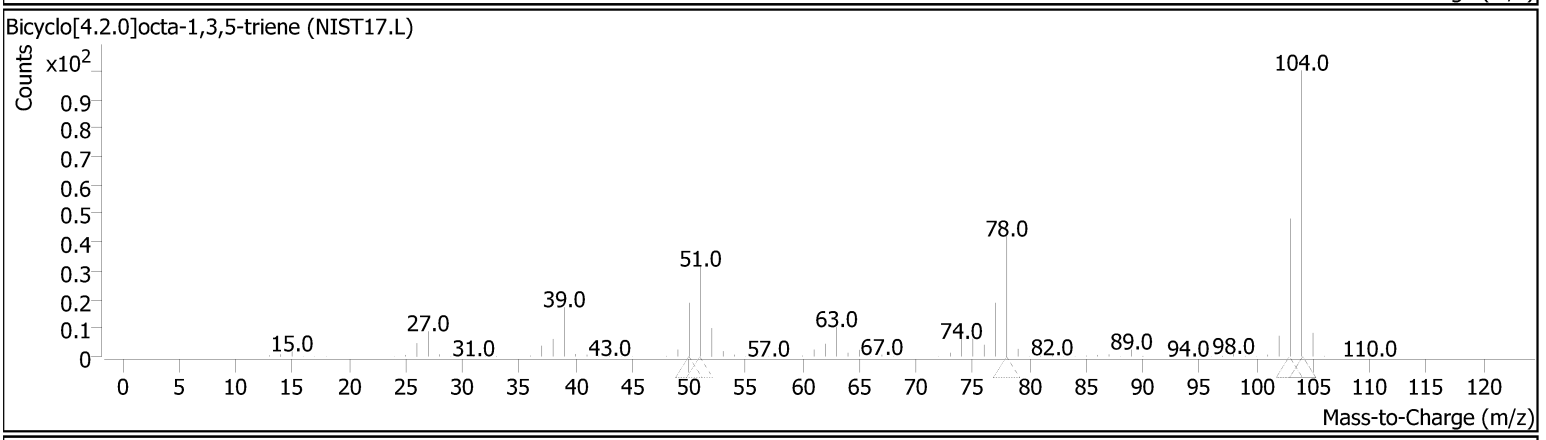



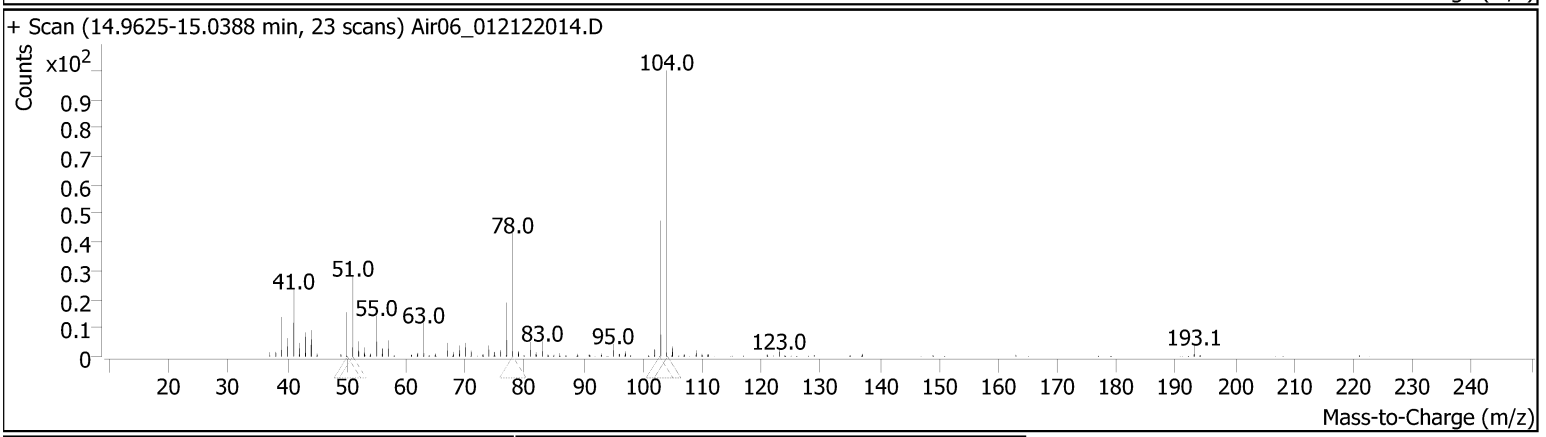



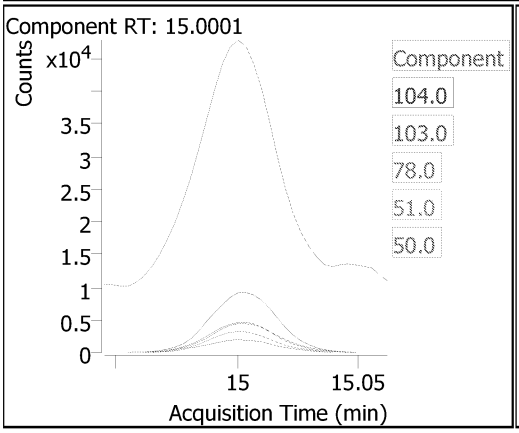


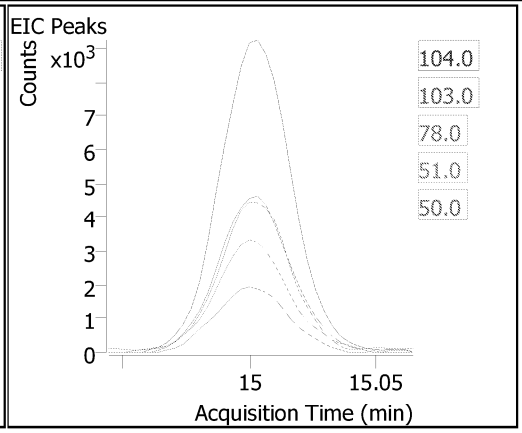

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.0001 | Bicyclo[4.2.0]octa-1,3,5-triene | 88900.9 | 92.9 | 694-87-1 | C8H8 | 0.1864 |

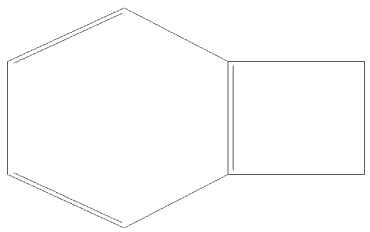


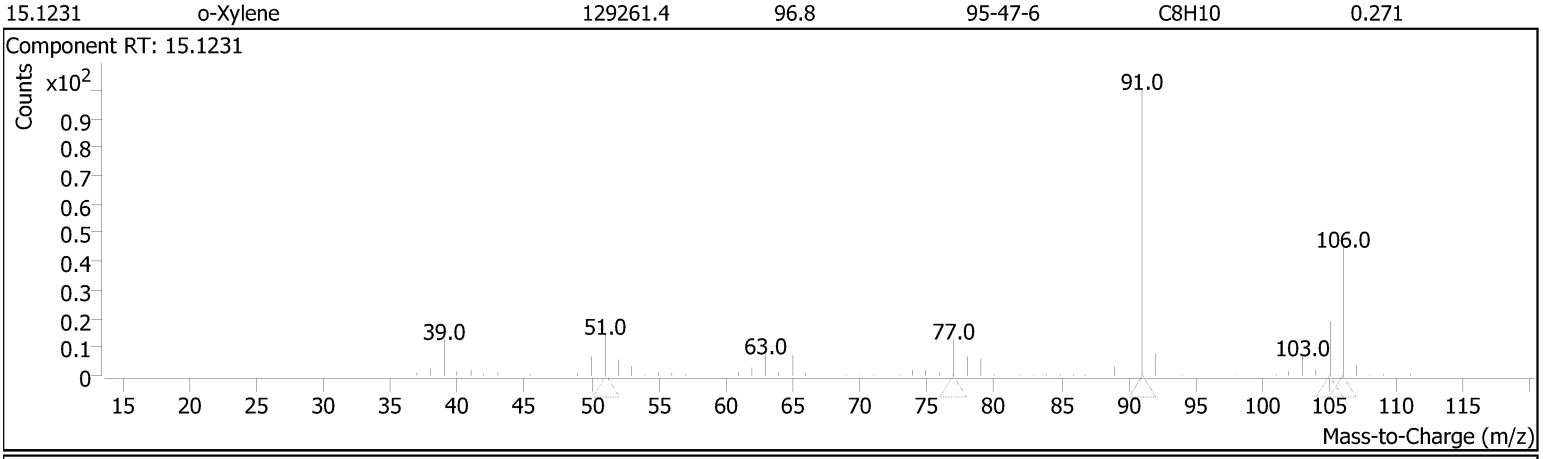



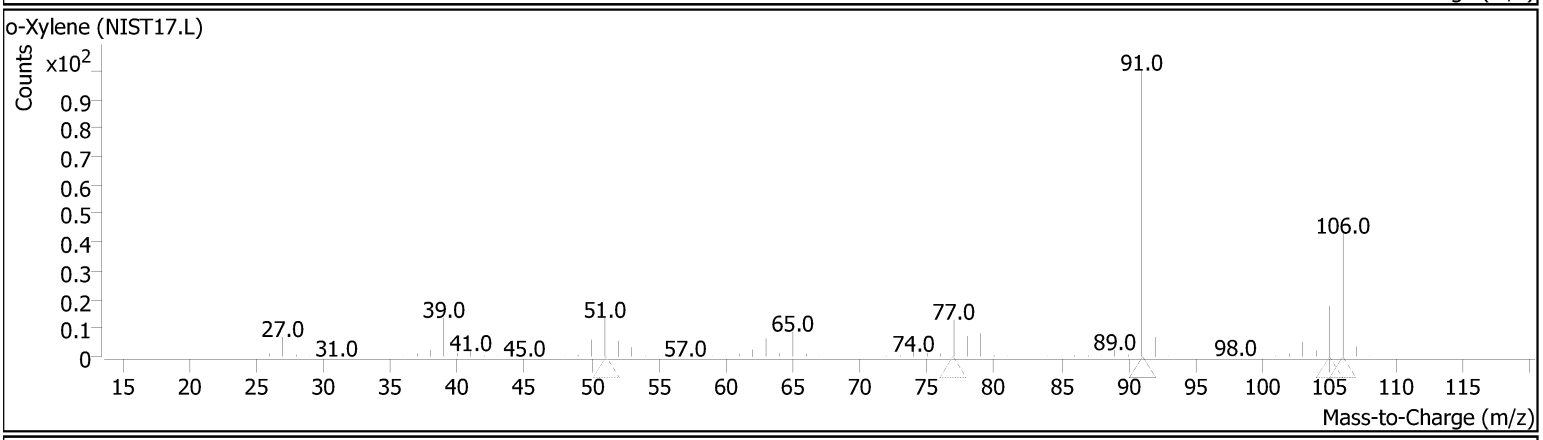



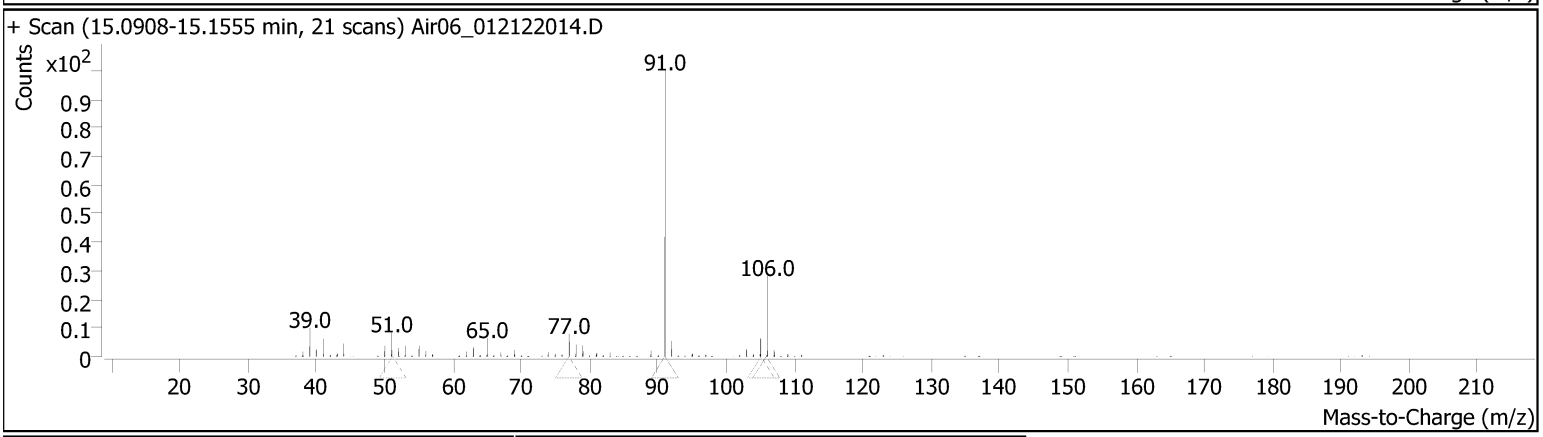



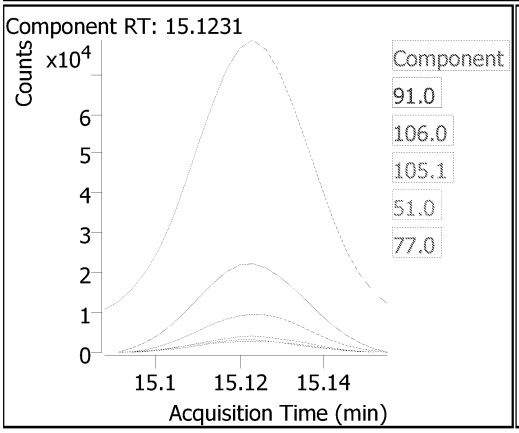



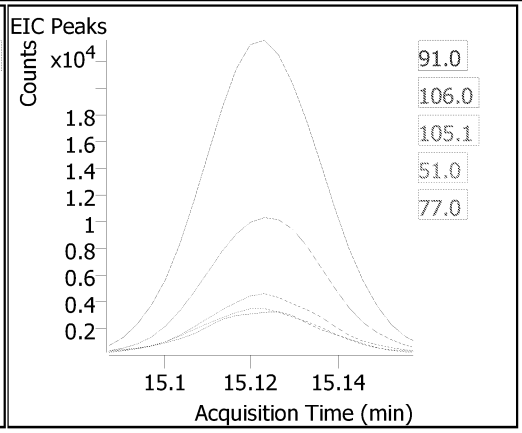
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.1231 | o-Xylene | 129261.4 | 96.8 | 95-47-6 | C8H10 | 0.271 |

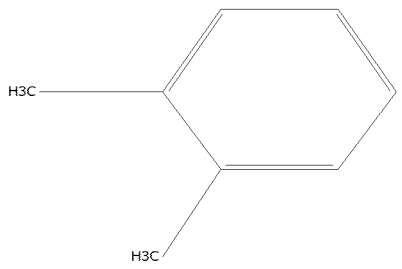


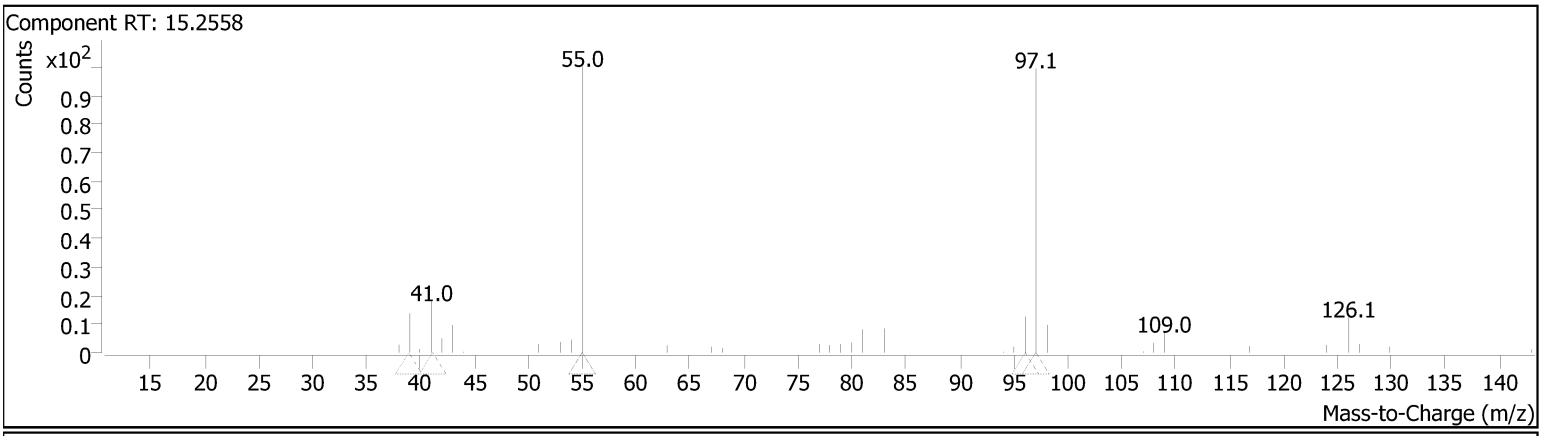



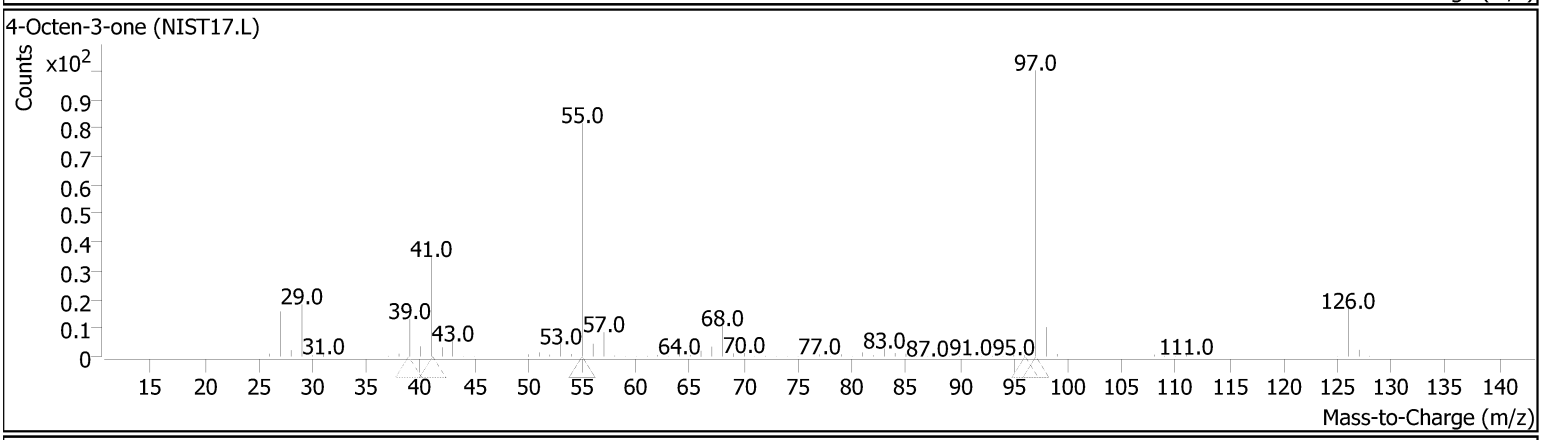



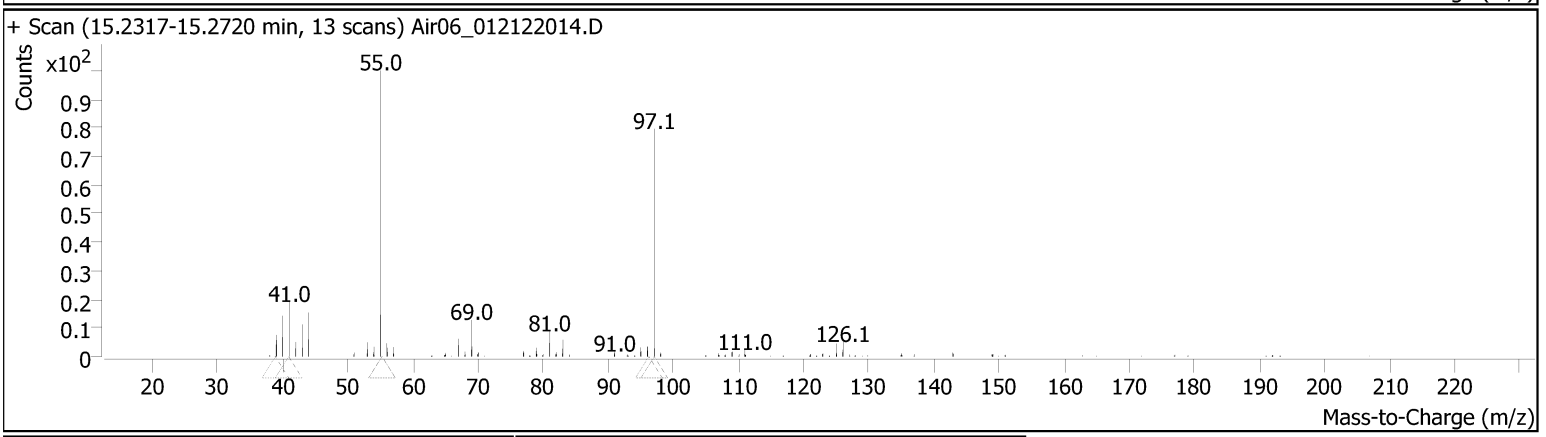



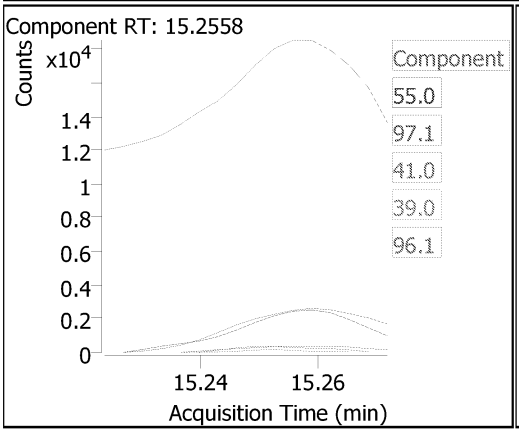



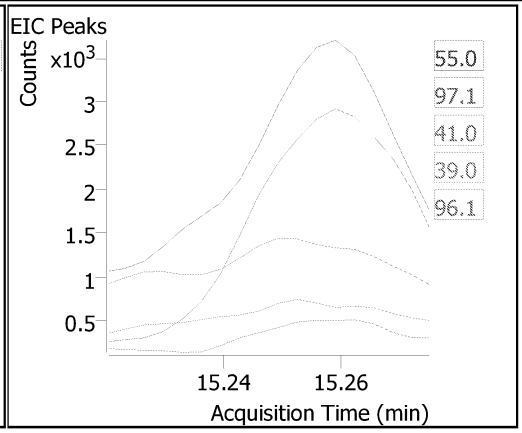
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.2558 | 4-Octen-3-one | 10493.8 | 76.9 | 14129-48-7 | C8H14O | 0.022 |

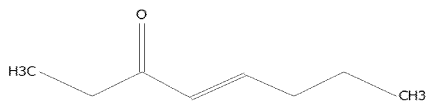


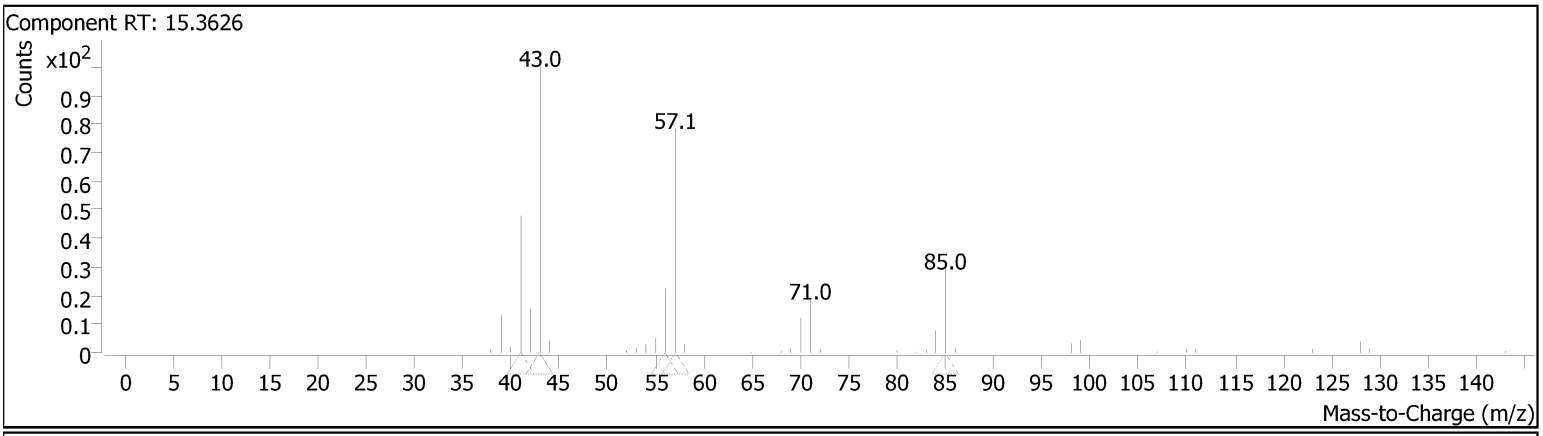



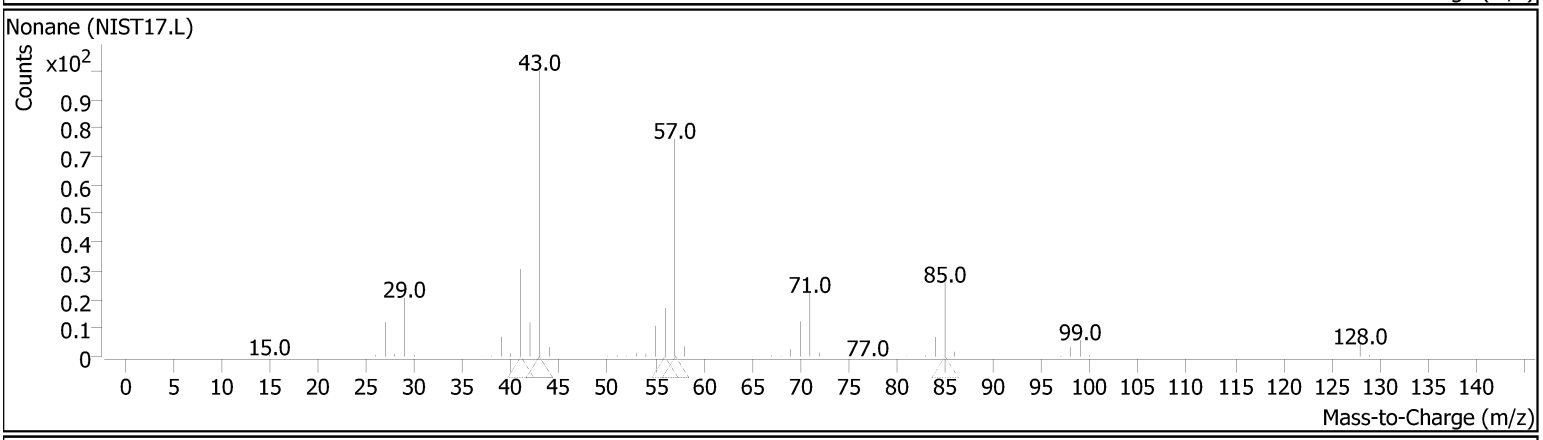



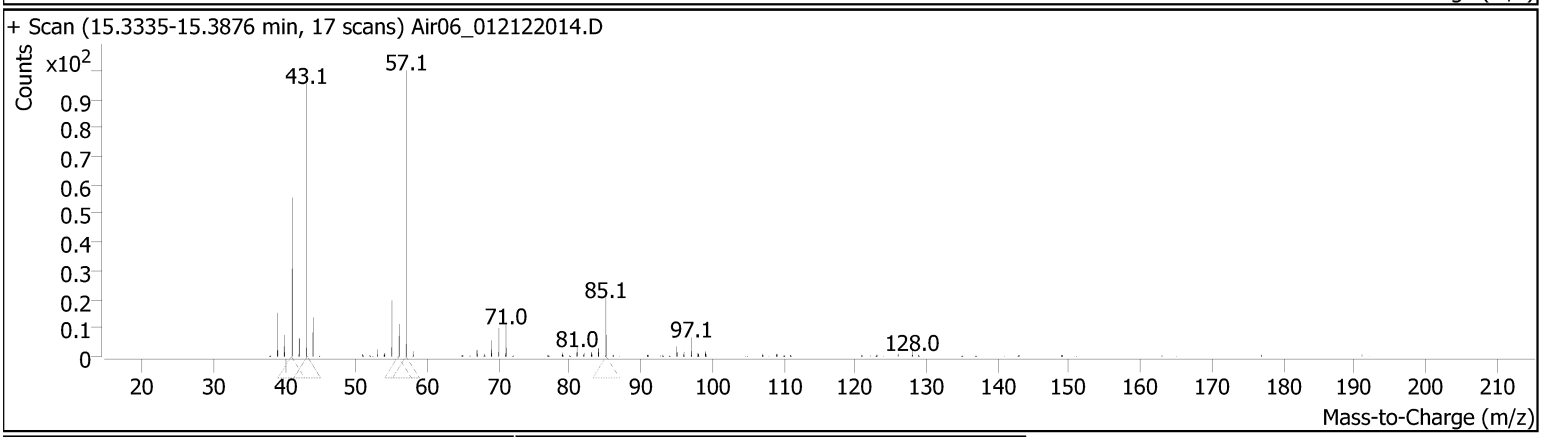



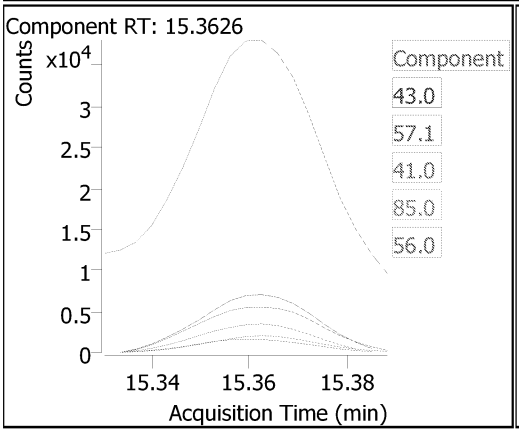



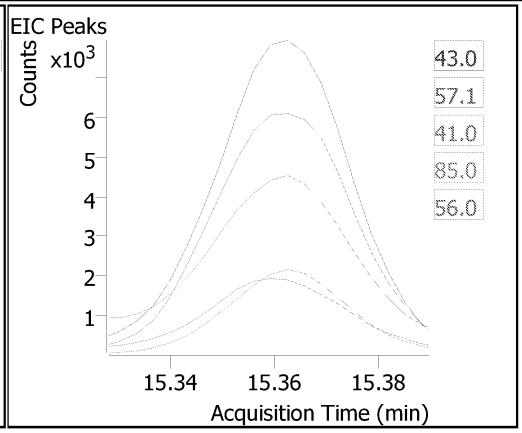
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3626 | Nonane | 47805.8 | 95.5 | 111-84-2 | C9H20 | 0.1002 |

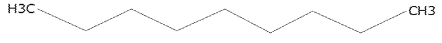


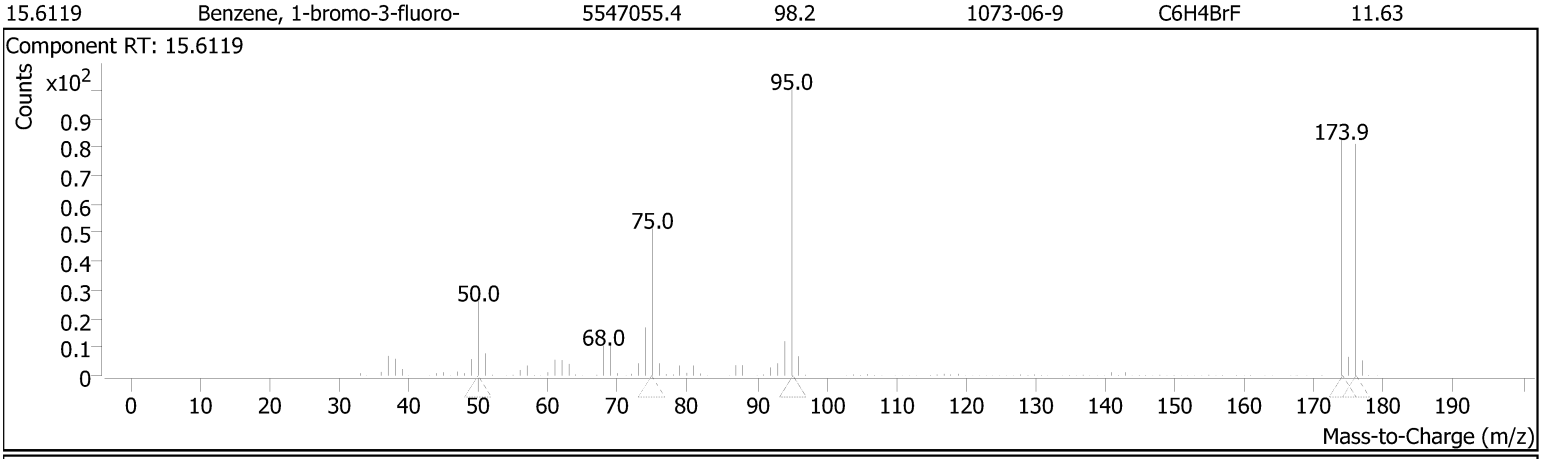



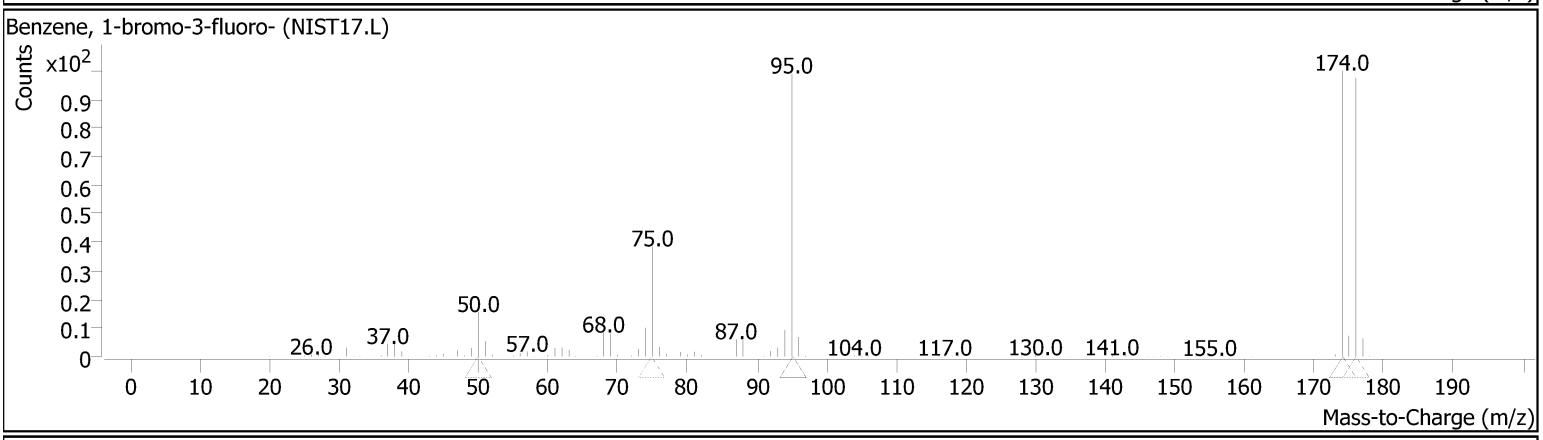



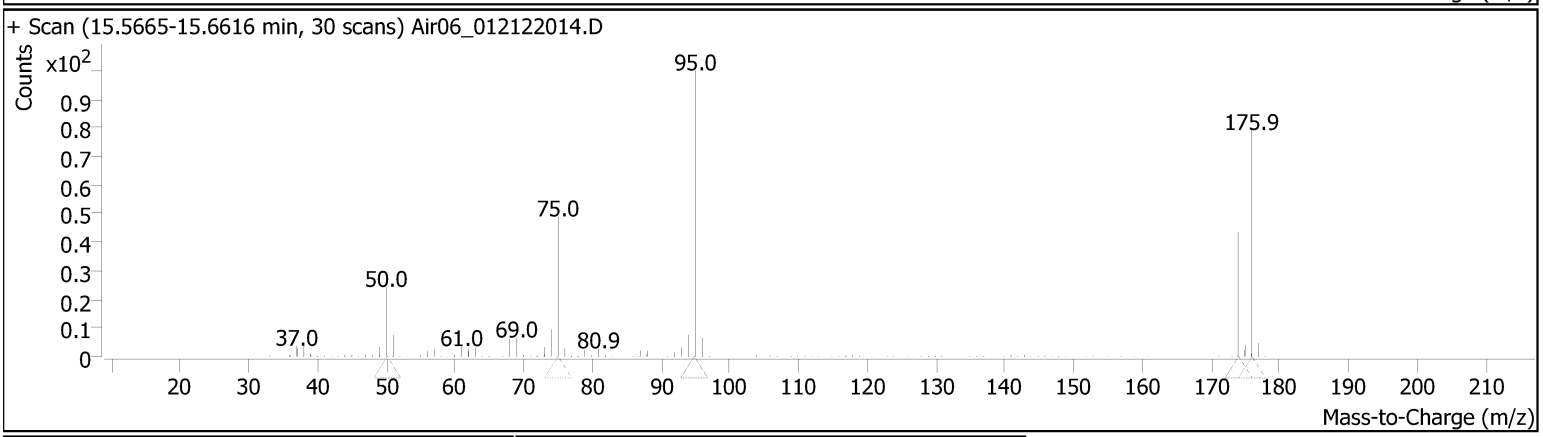



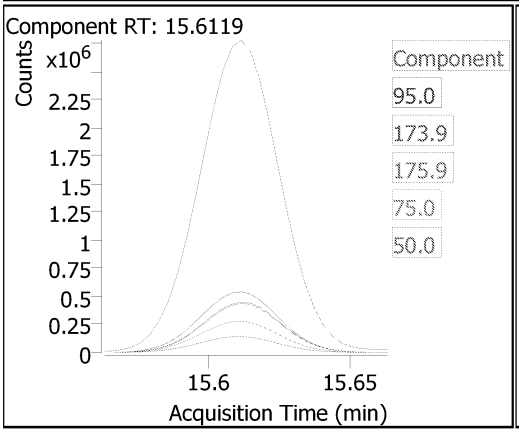



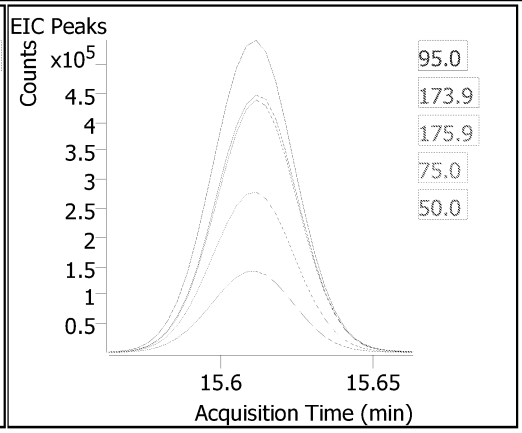
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6119 | Benzene, 1-bromo-3-fluoro- | 5547055.4 | 98.2 | 1073-06-9 | C6H4BrF | 11.63 |

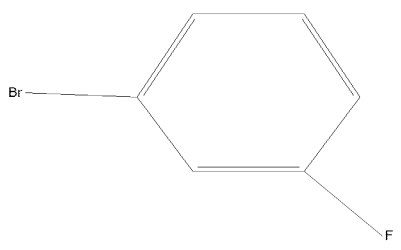


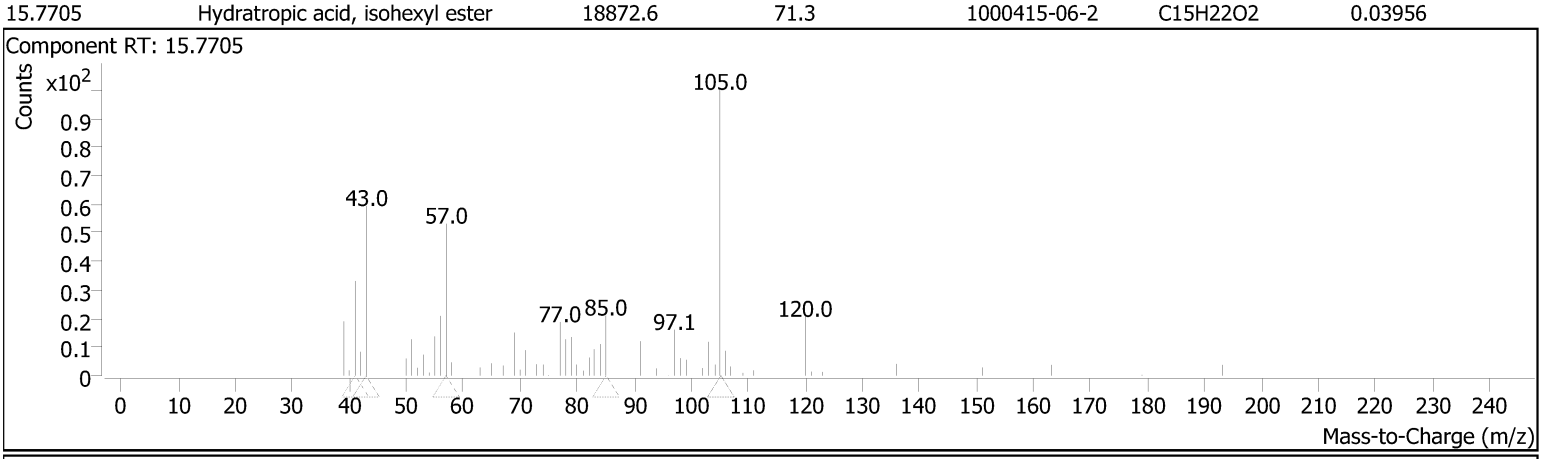



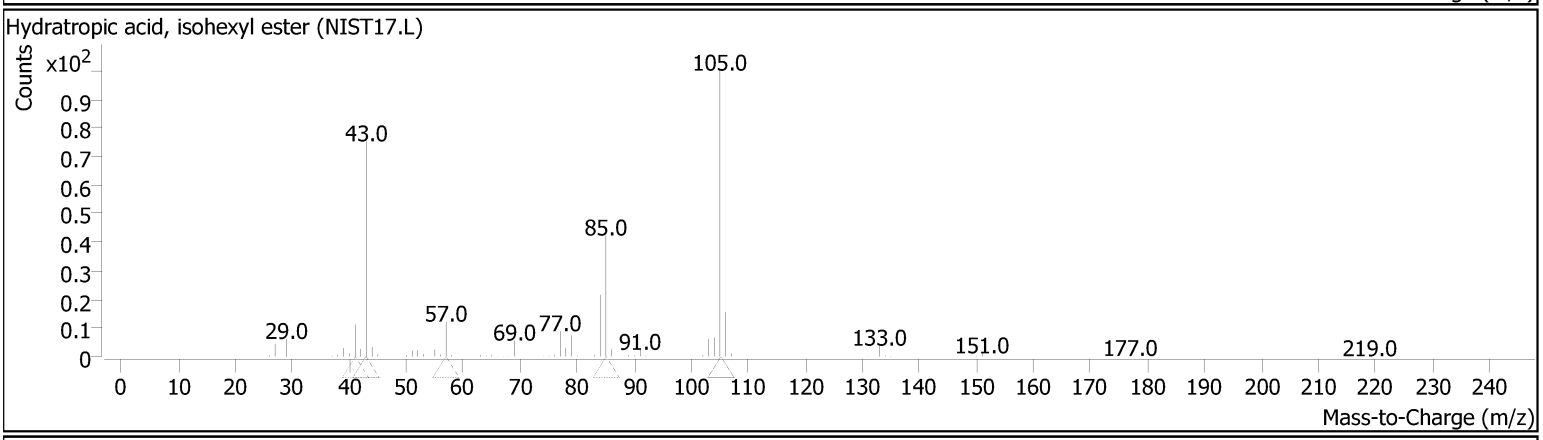



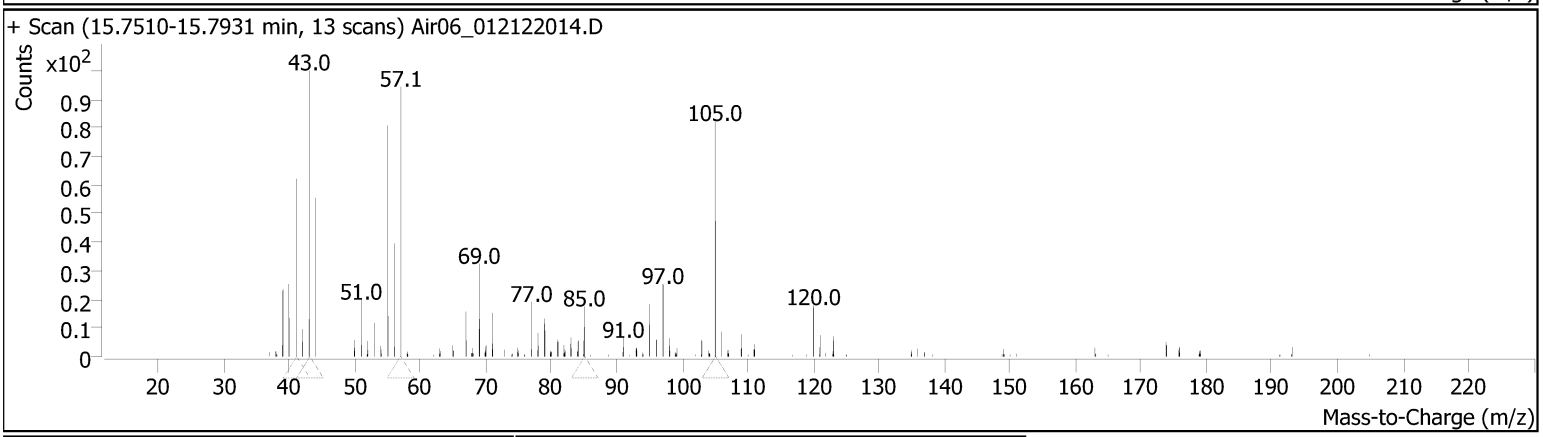



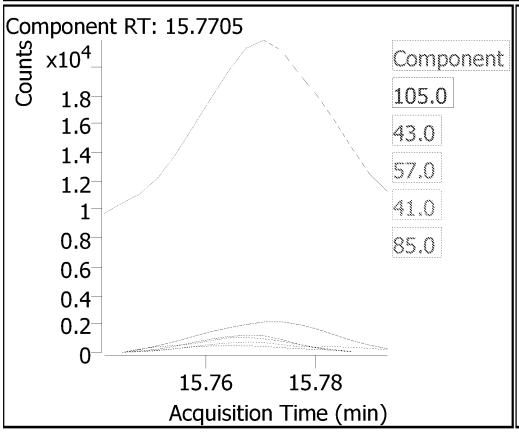



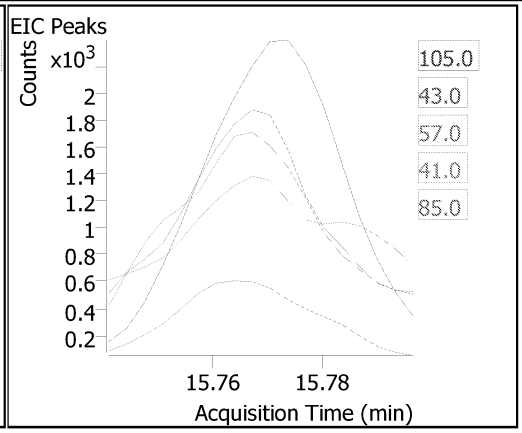
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.7705 | Hydratropic acid, isohexyl ester | 18872.6 | 71.3 | 1000415-06-2 | C15H22O2 | 0.03956 |

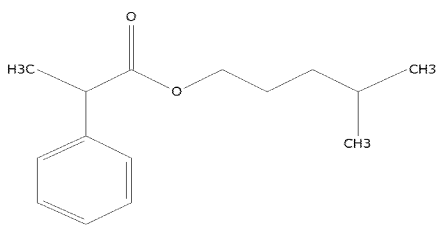


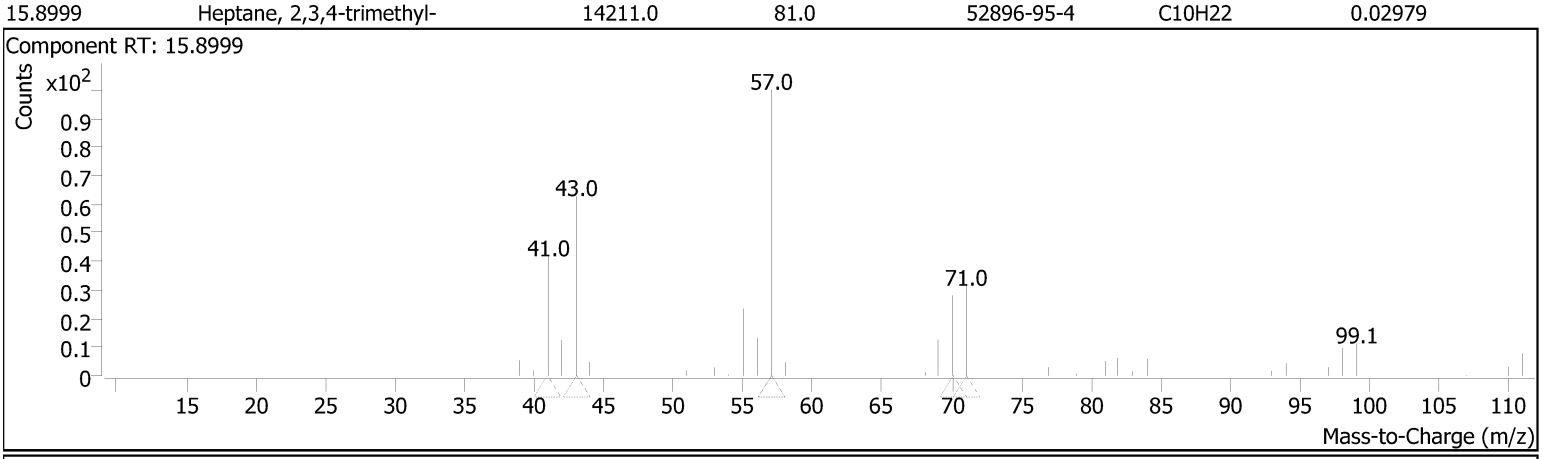



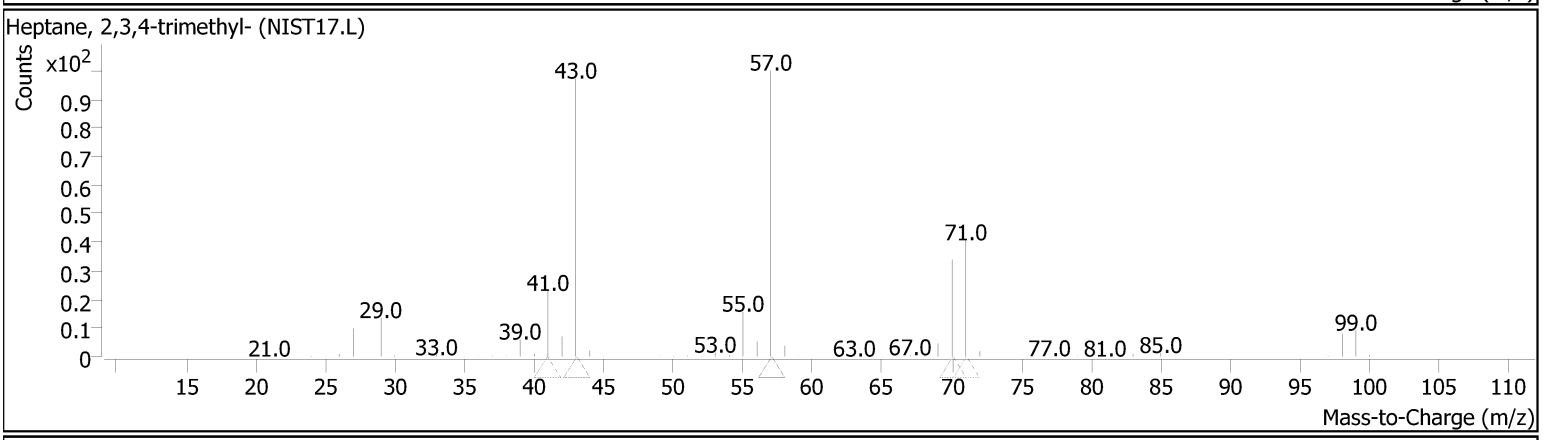



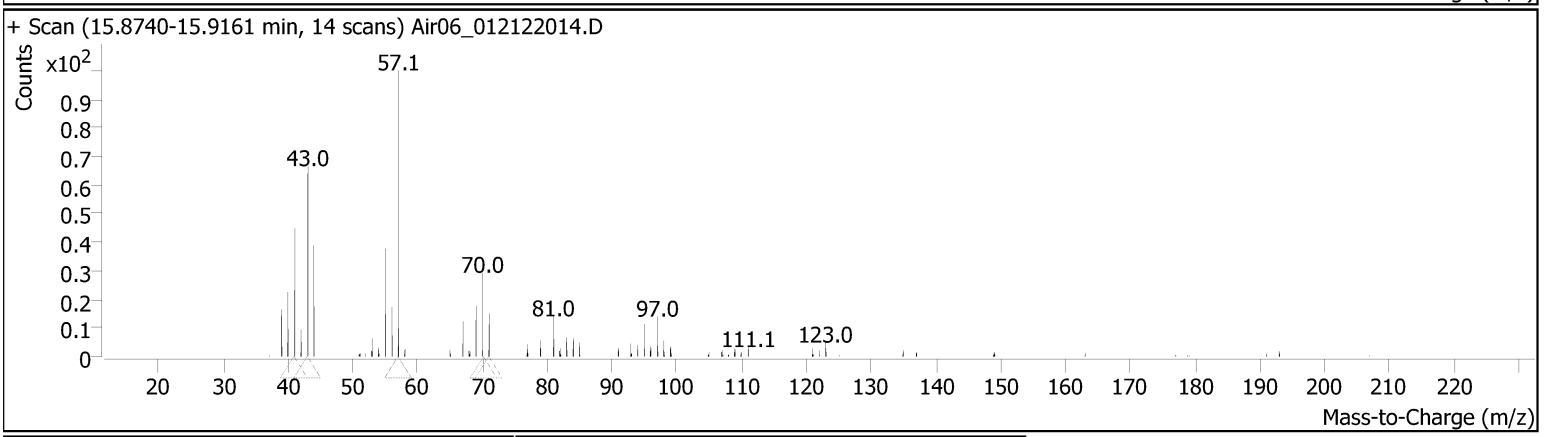



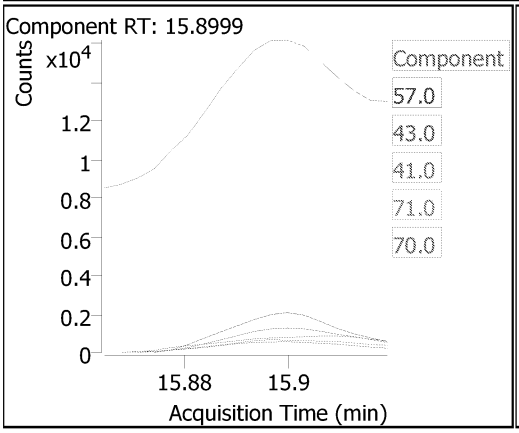



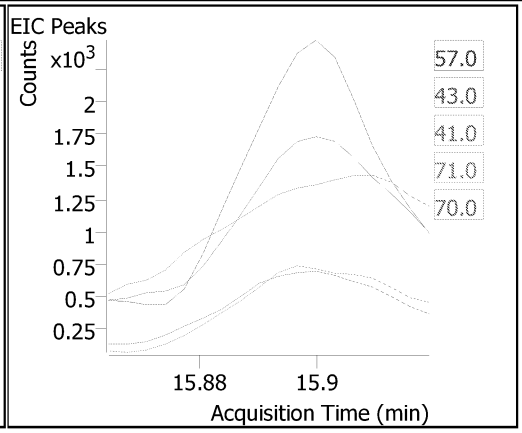
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.8999 | Heptane, 2,3,4-trimethyl- | 14211.0 | 81.0 | 52896-95-4 | C10H22 | 0.02979 |

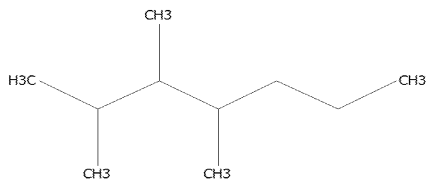


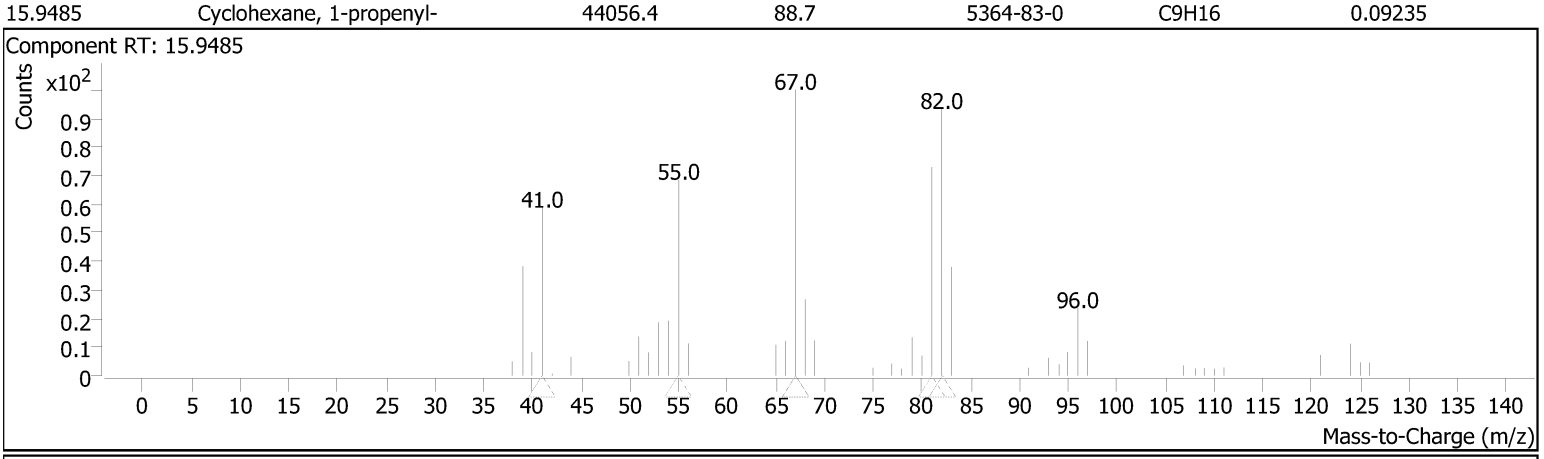



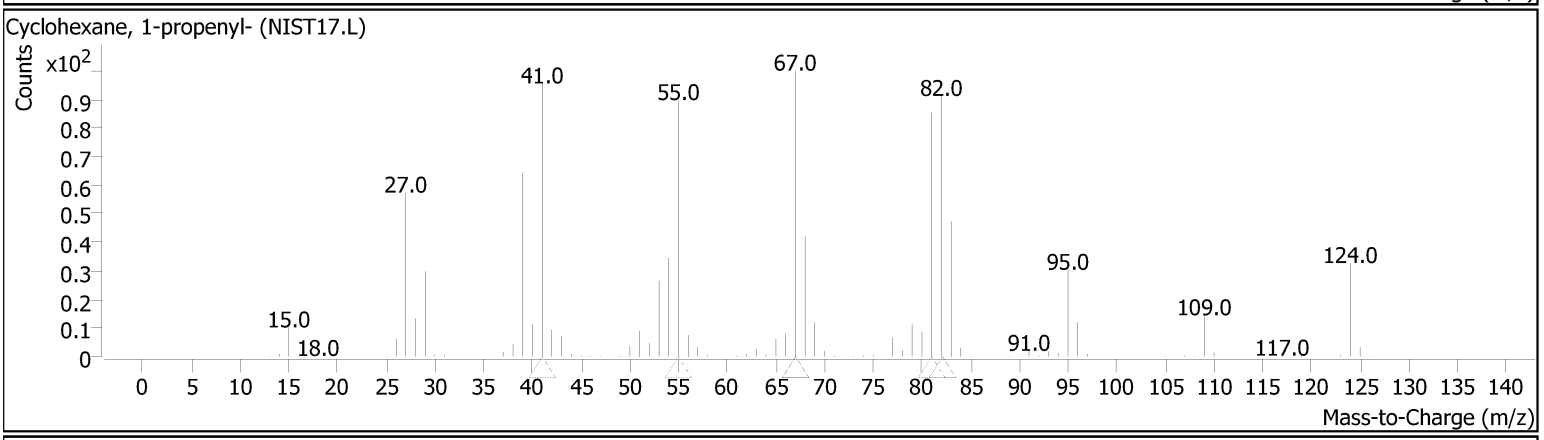



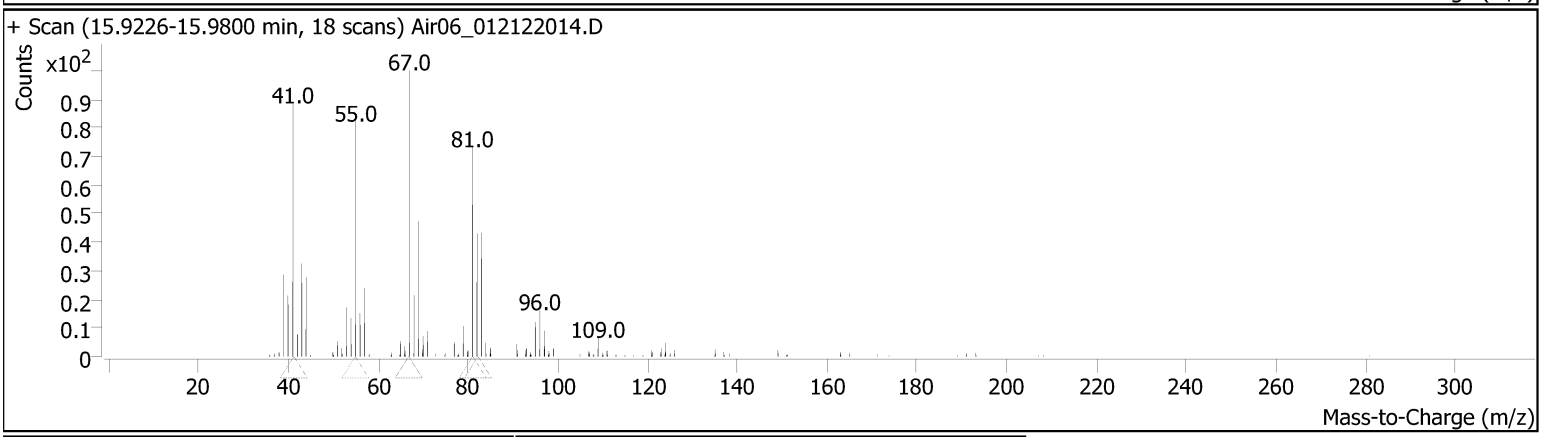



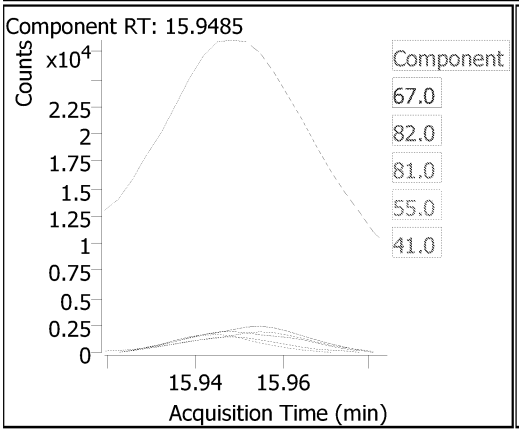



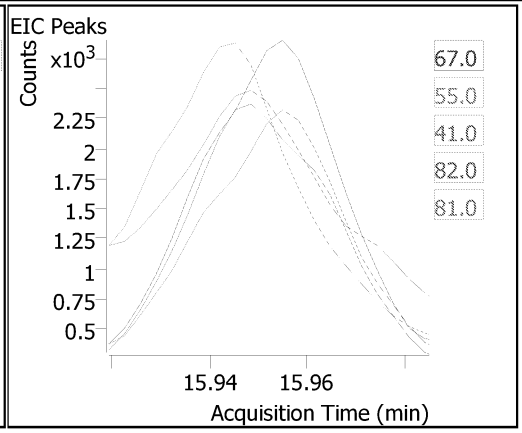
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.9485 | Cyclohexane, 1-propenyl- | 44056.4 | 88.7 | 5364-83-0 | C9H16 | 0.09235 |

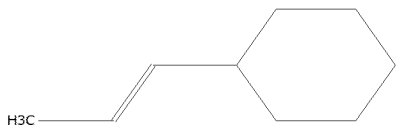


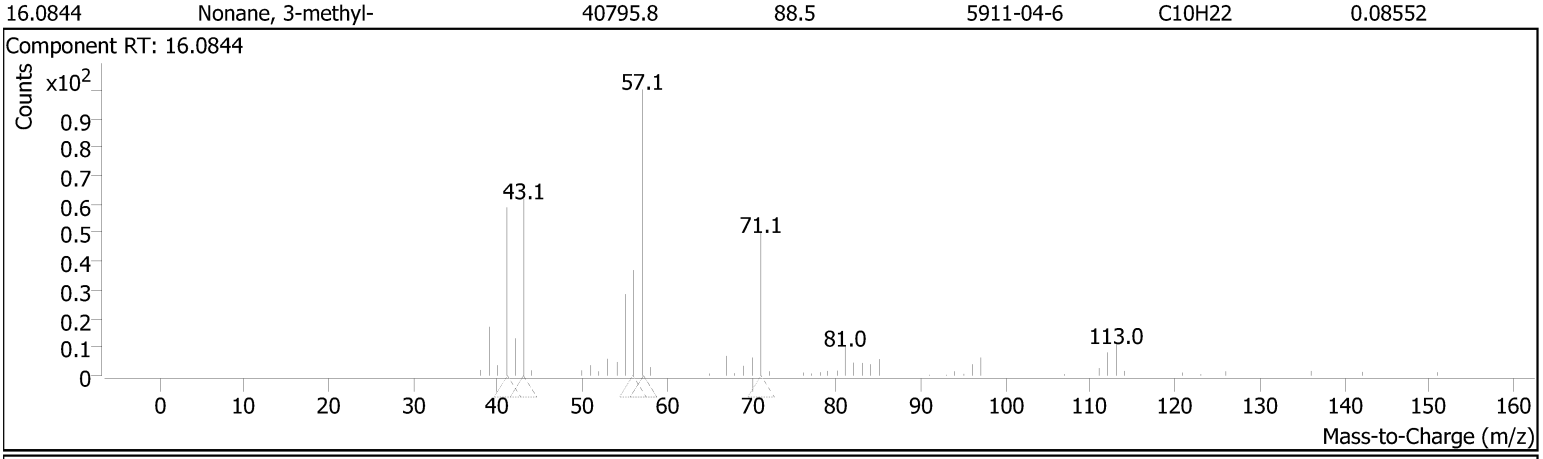



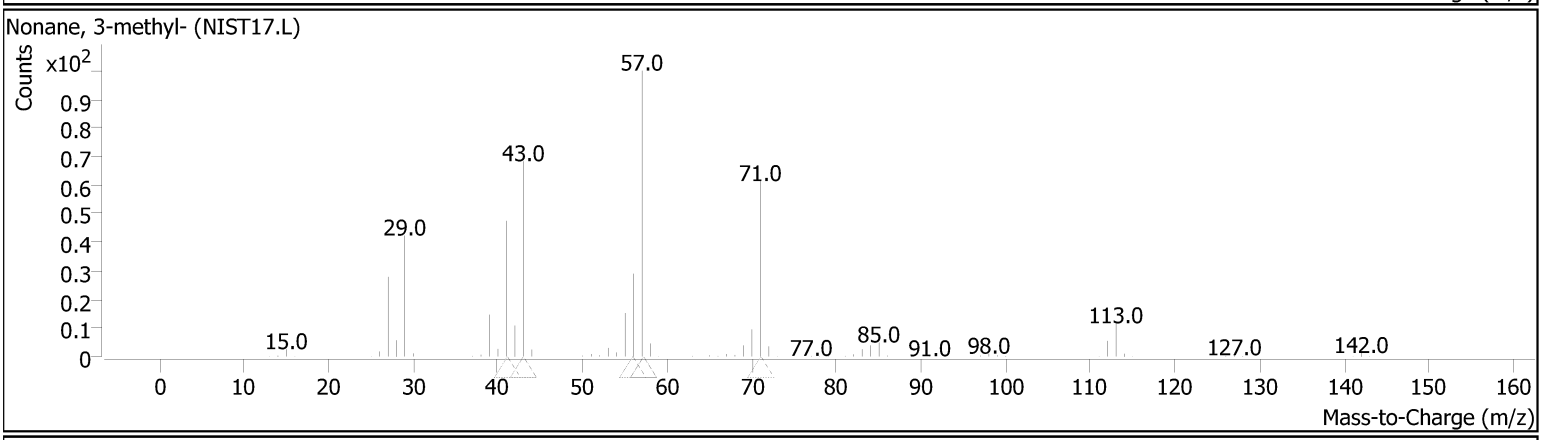



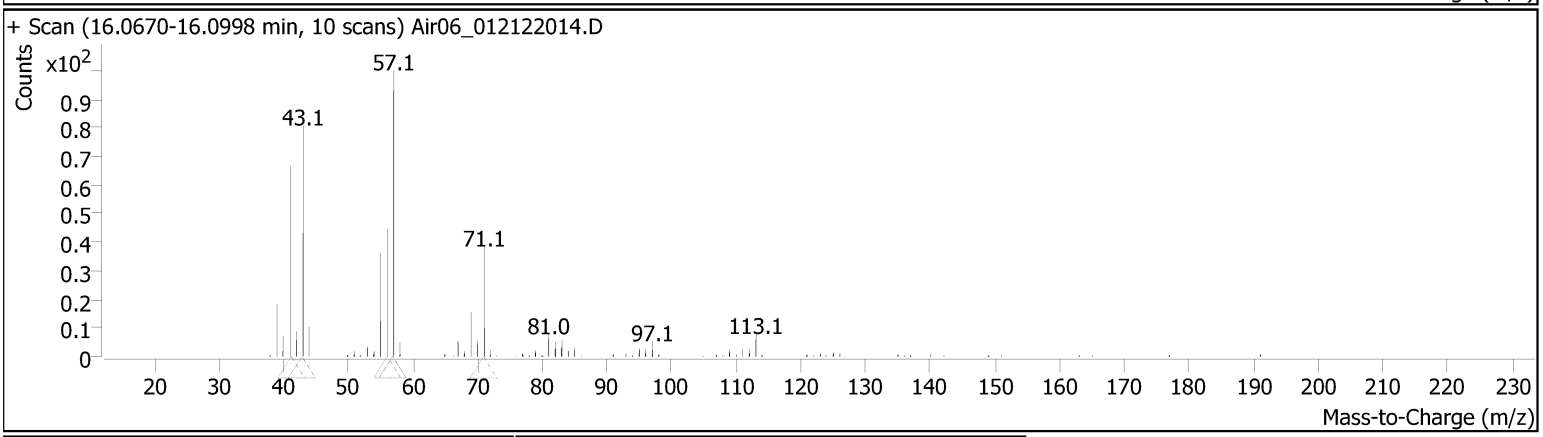



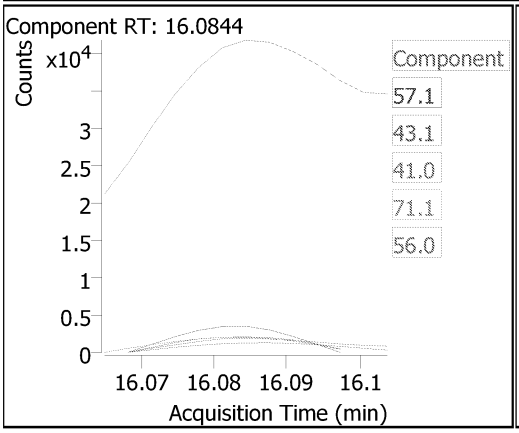



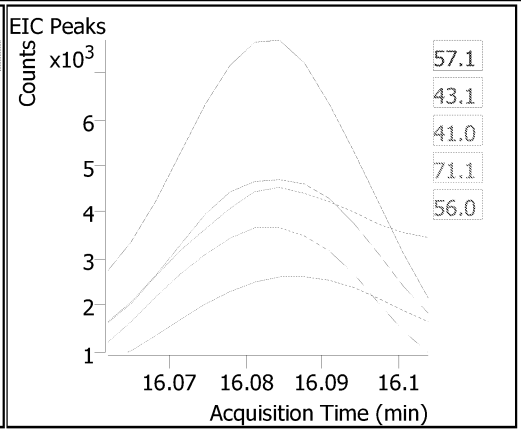
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.0844 | Nonane, 3-methyl- | 40795.8 | 88.5 | 5911-04-6 | C10H22 | 0.08552 |



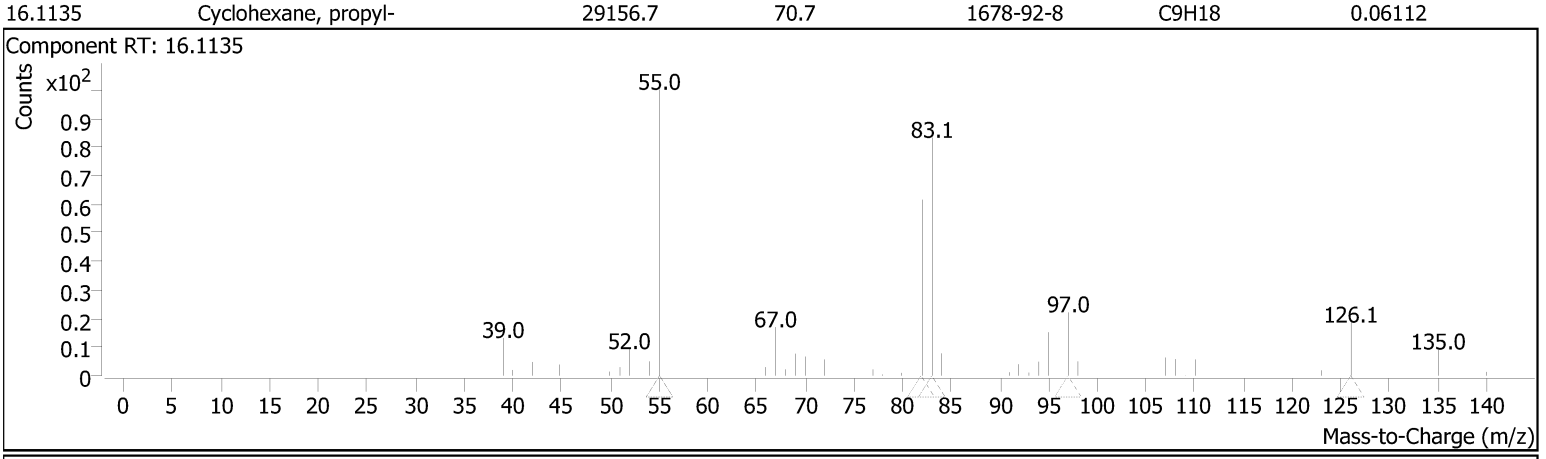



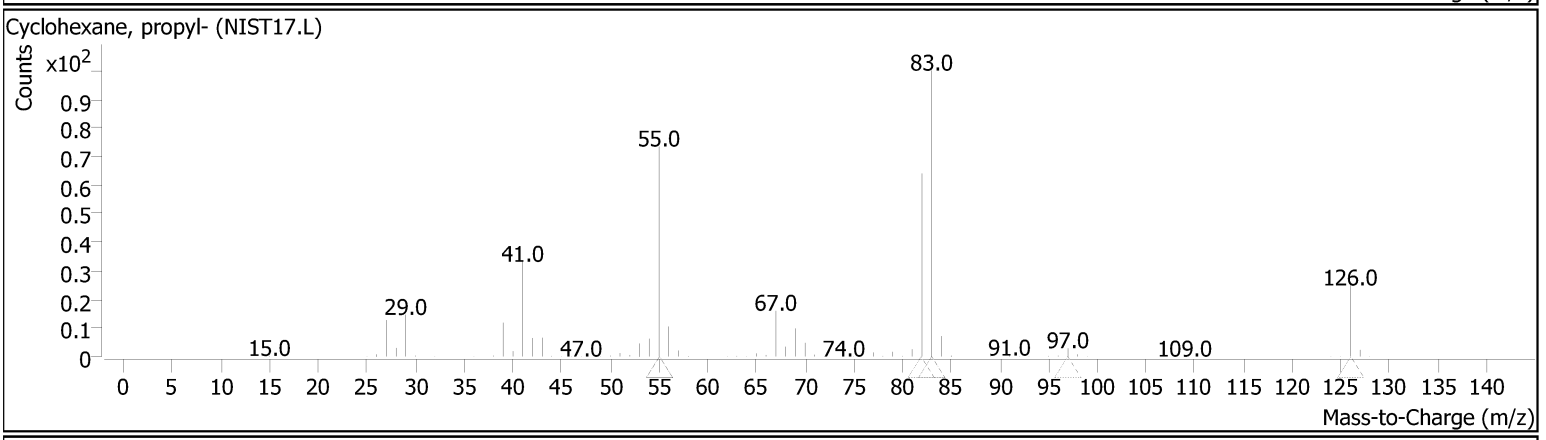



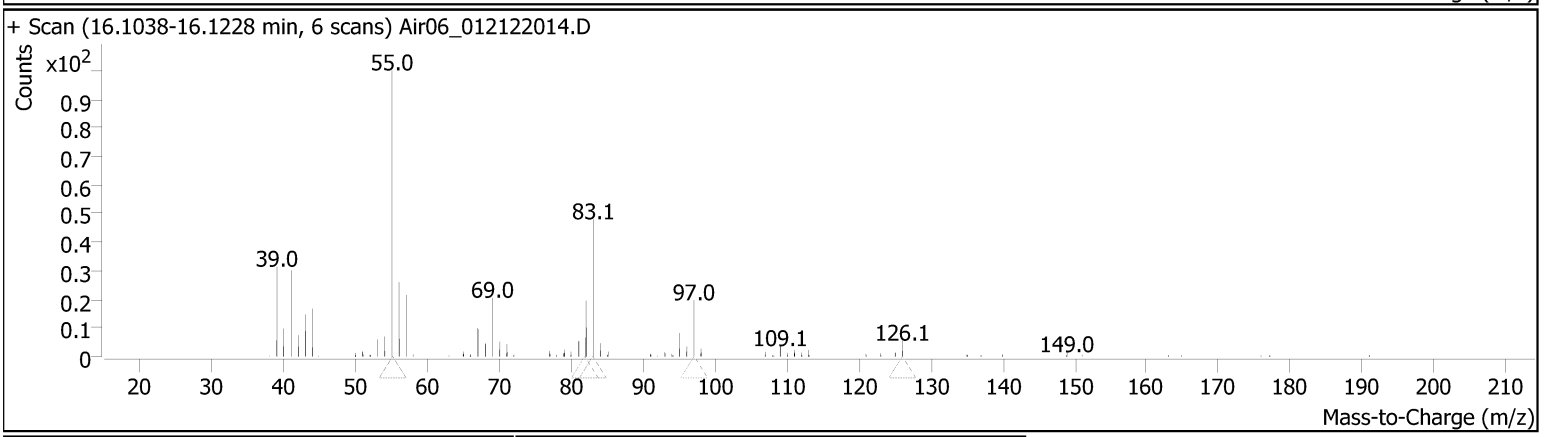



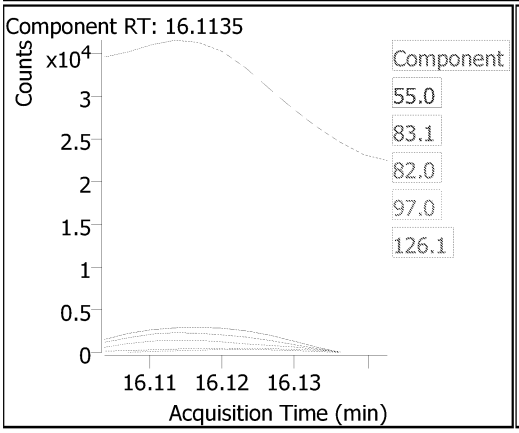


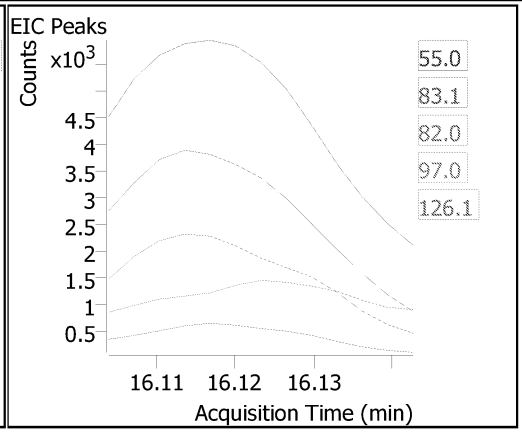

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1135 | Cyclohexane, propyl- | 29156.7 | 70.7 | 1678-92-8 | C9H18 | 0.06112 |

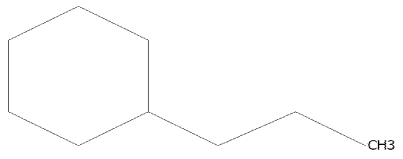


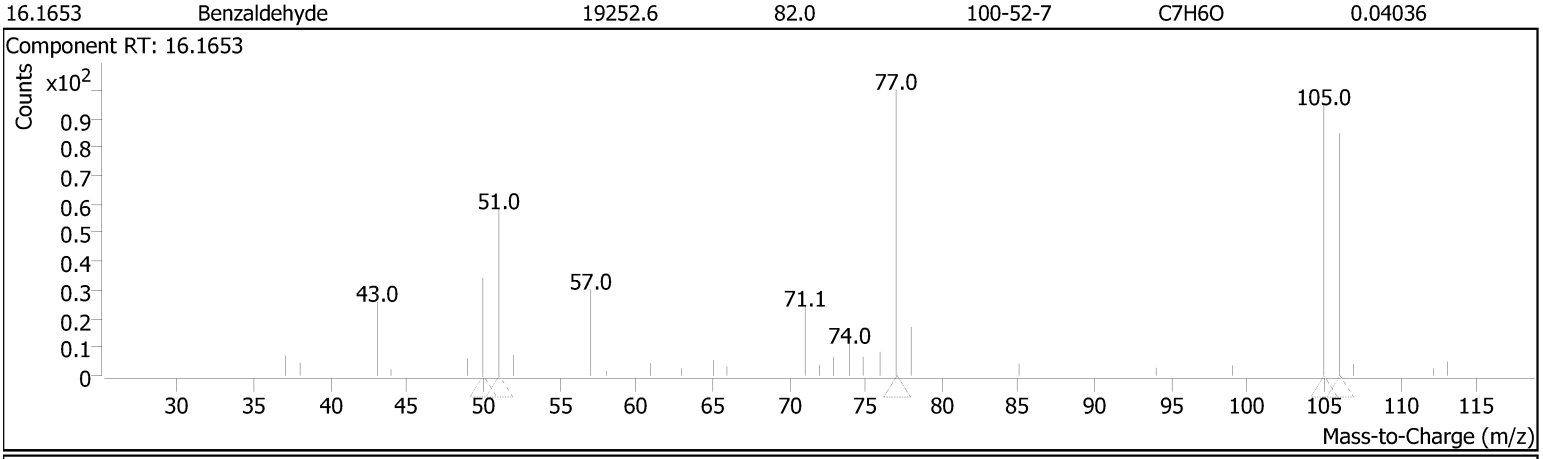



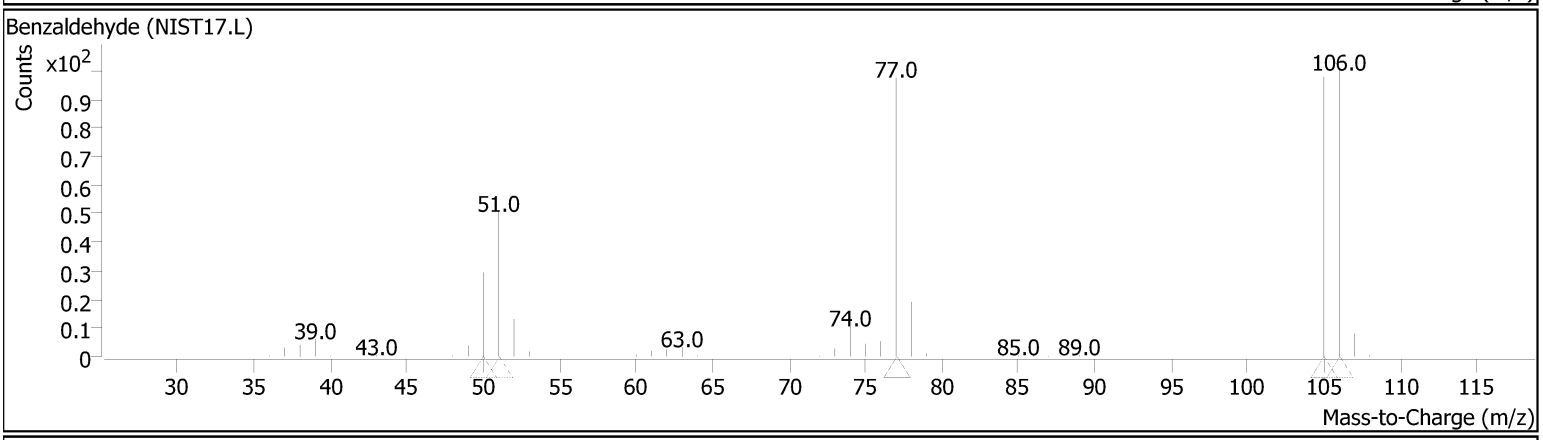



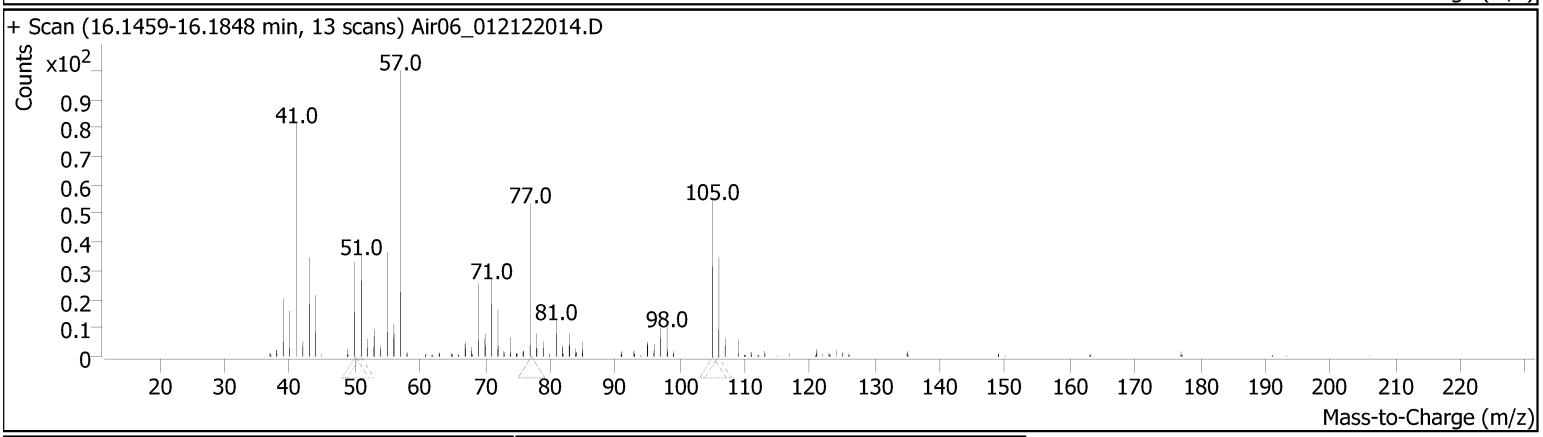



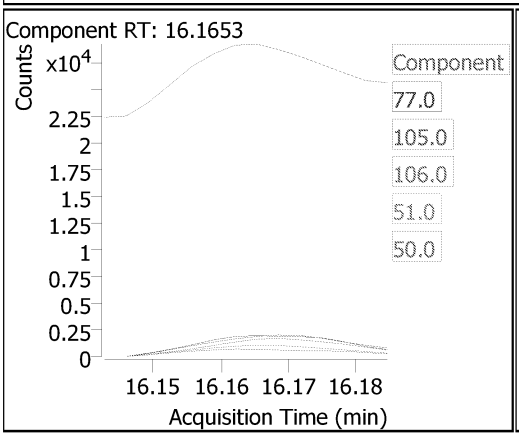



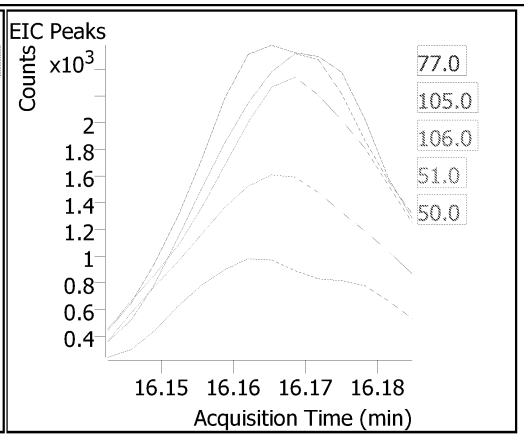
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1653 | Benzaldehyde | 19252.6 | 82.0 | 100-52-7 | C7H6O | 0.04036 |

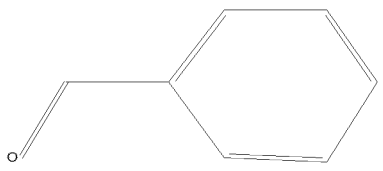


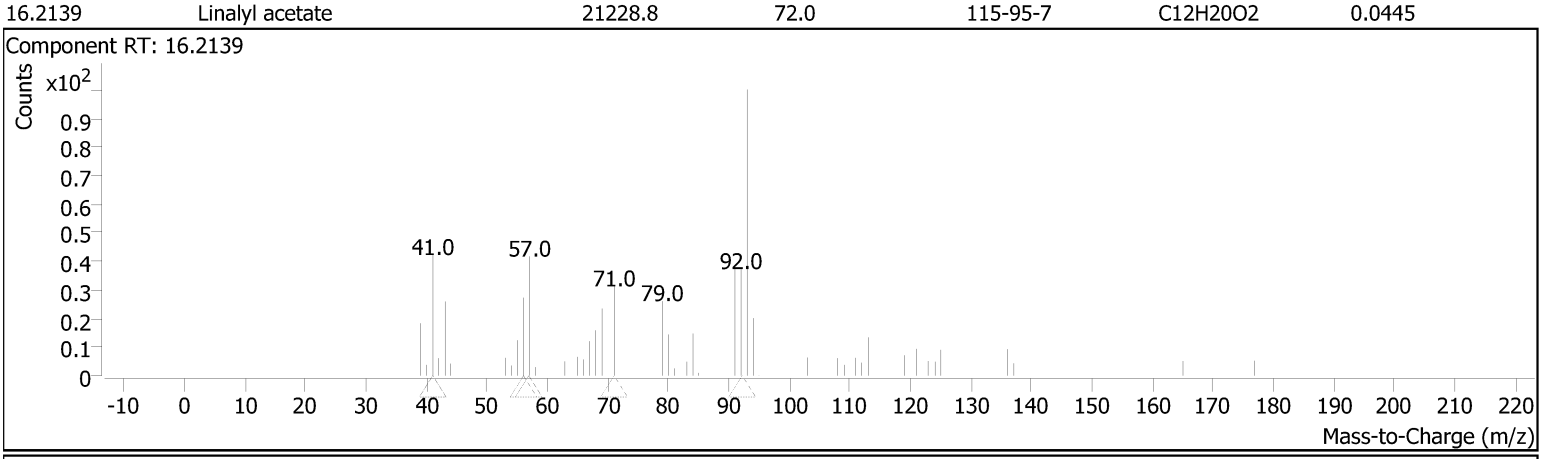



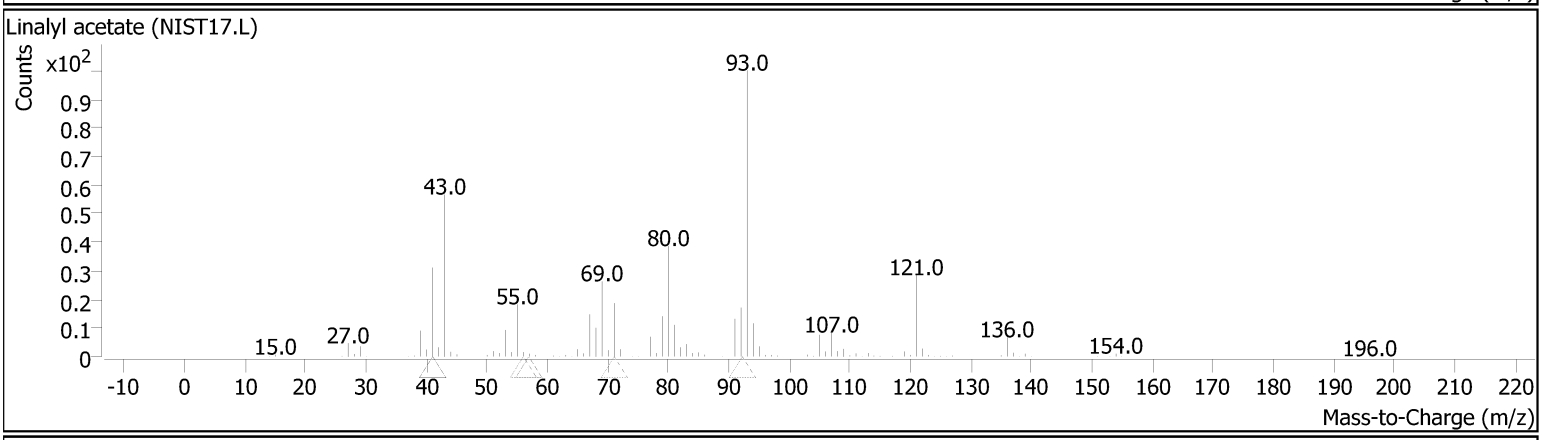



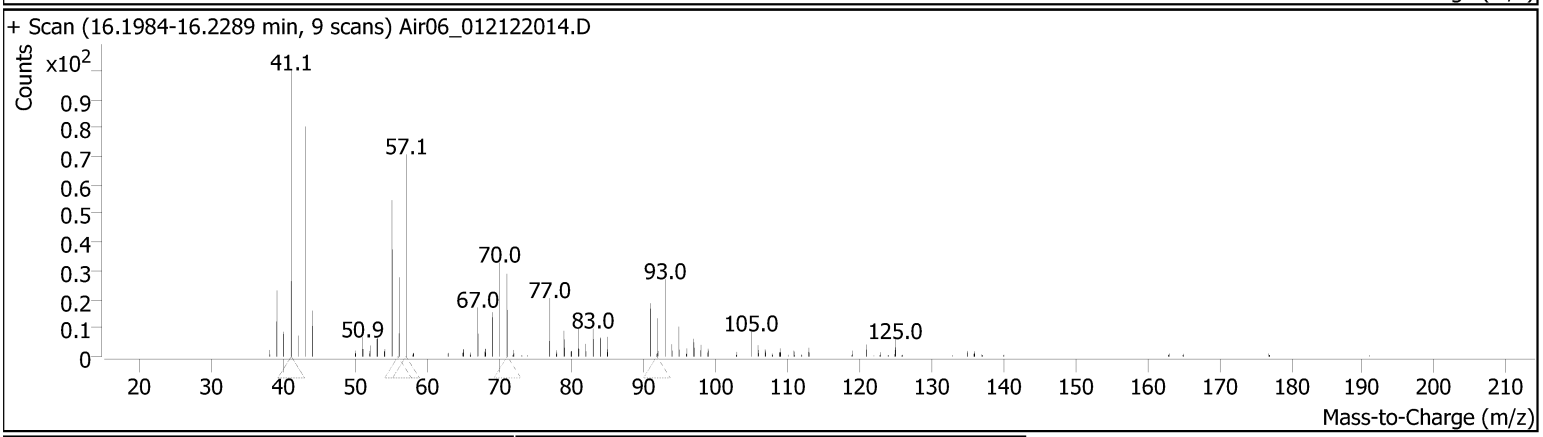



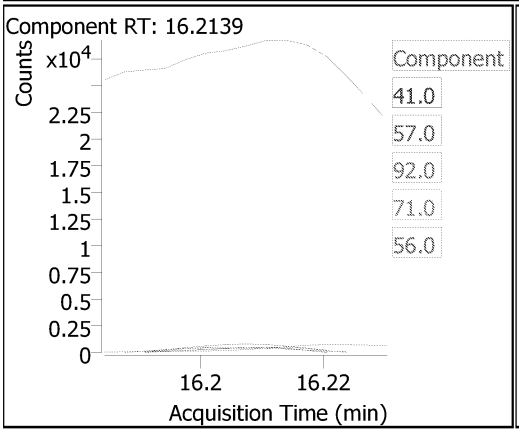



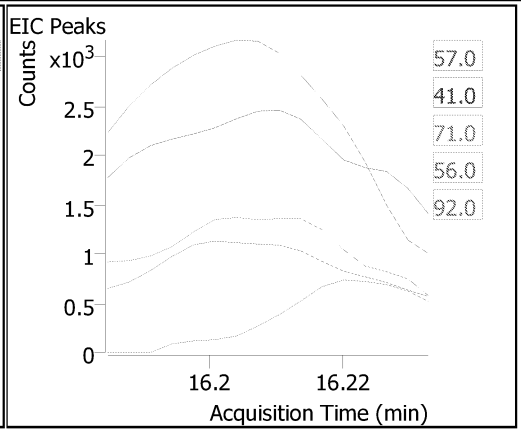
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.2139 | Linalyl acetate | 21228.8 | 72.0 | 115-95-7 | C12H20O2 | 0.0445 |

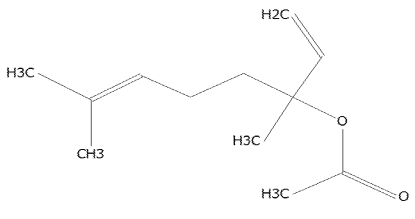


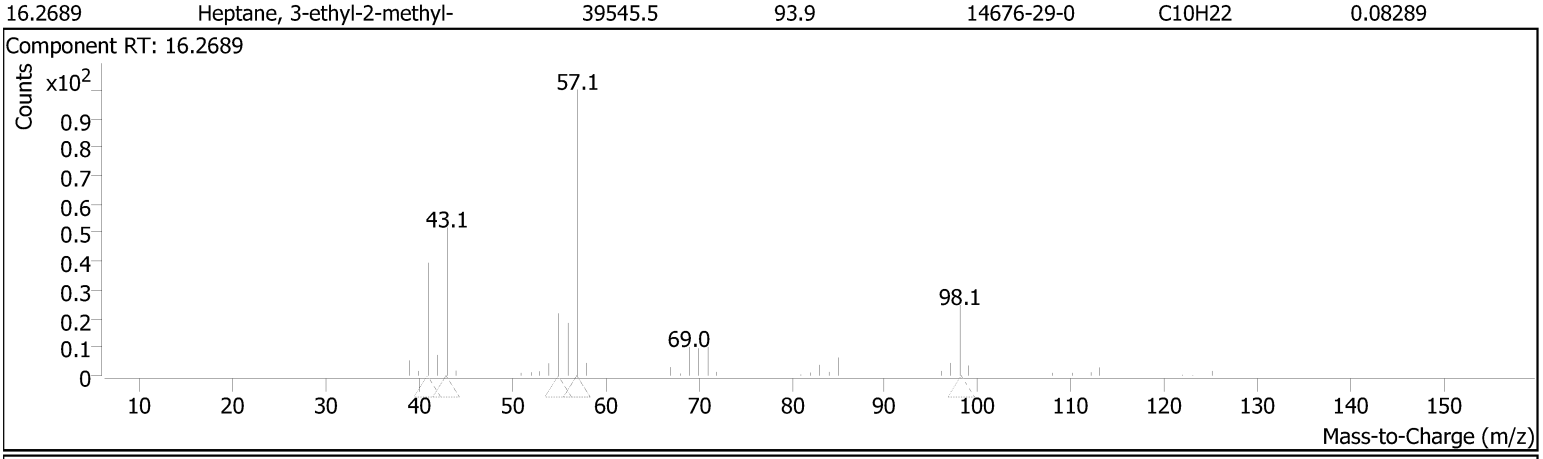



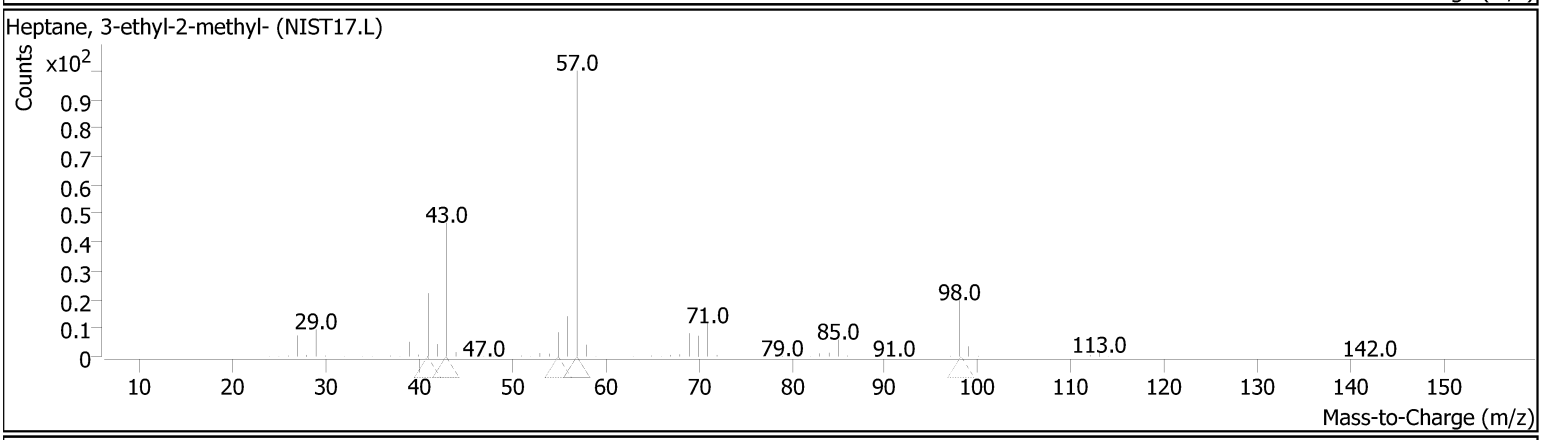



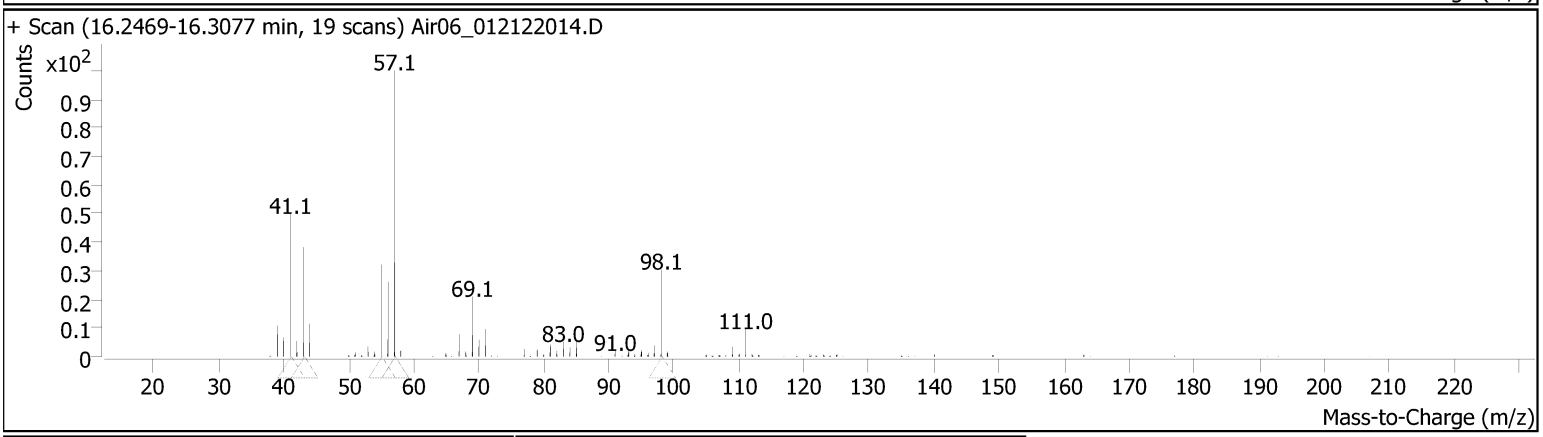



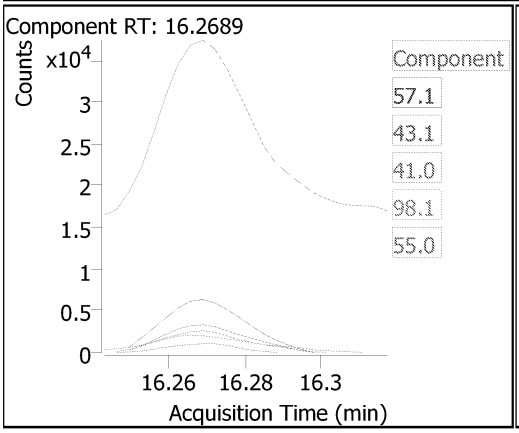



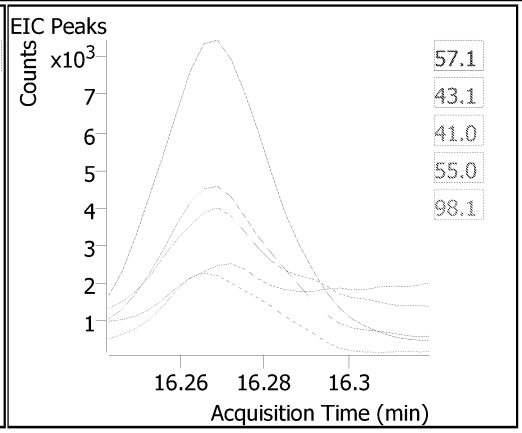
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.2689 | Heptane, 3-ethyl-2-methyl- | 39545.5 | 93.9 | 14676-29-0 | C10H22 | 0.08289 |

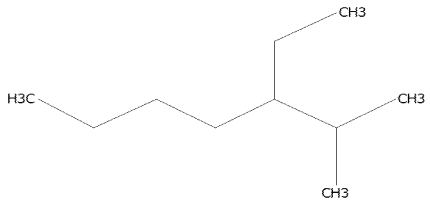


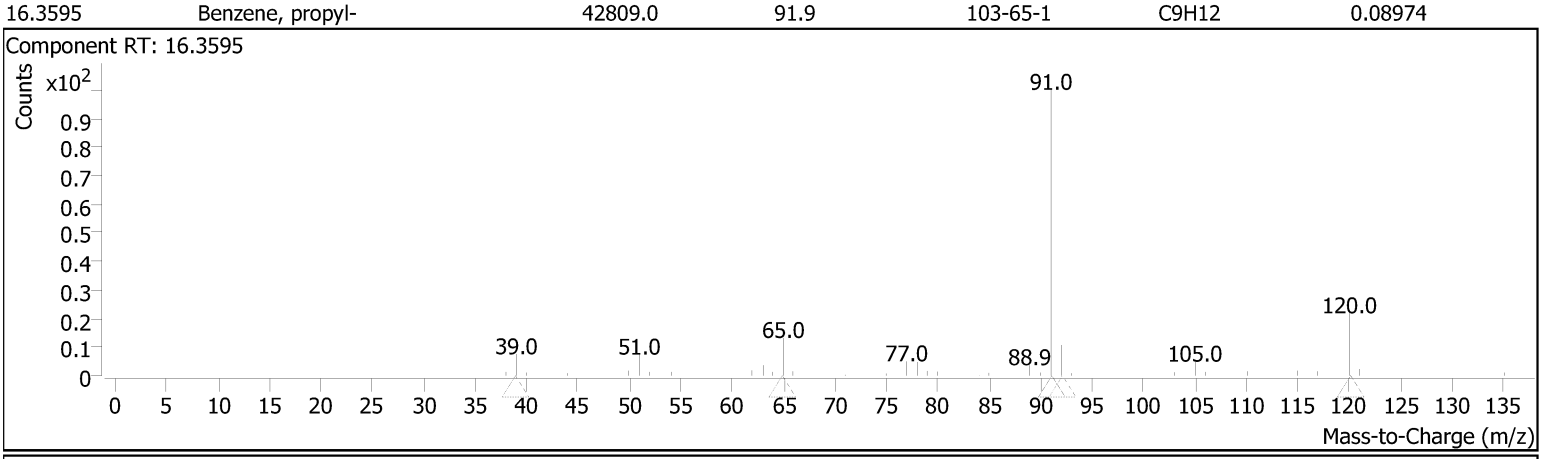



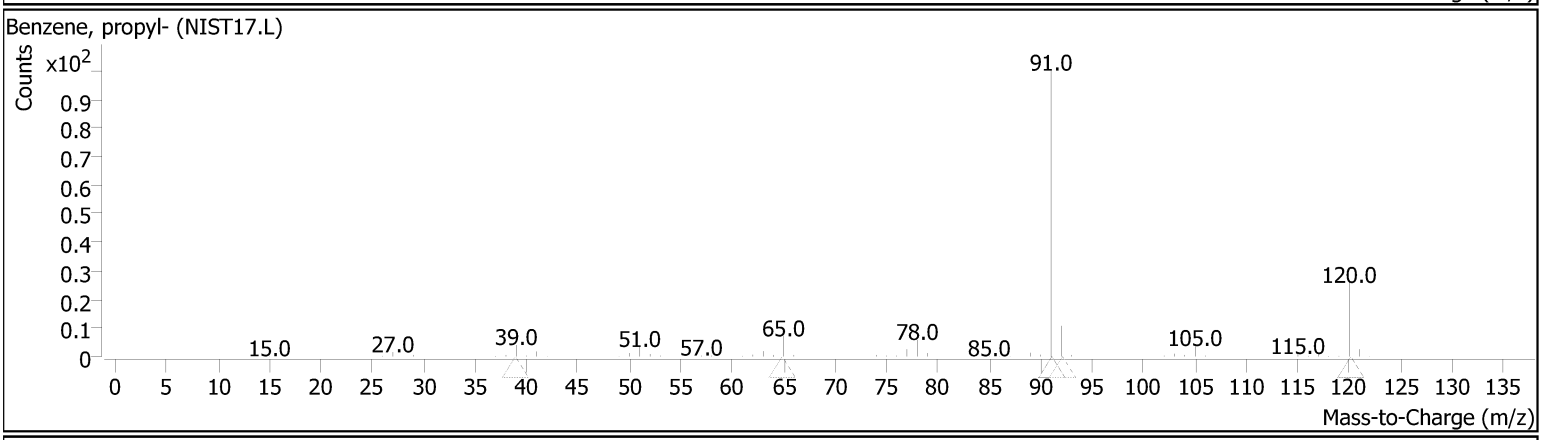



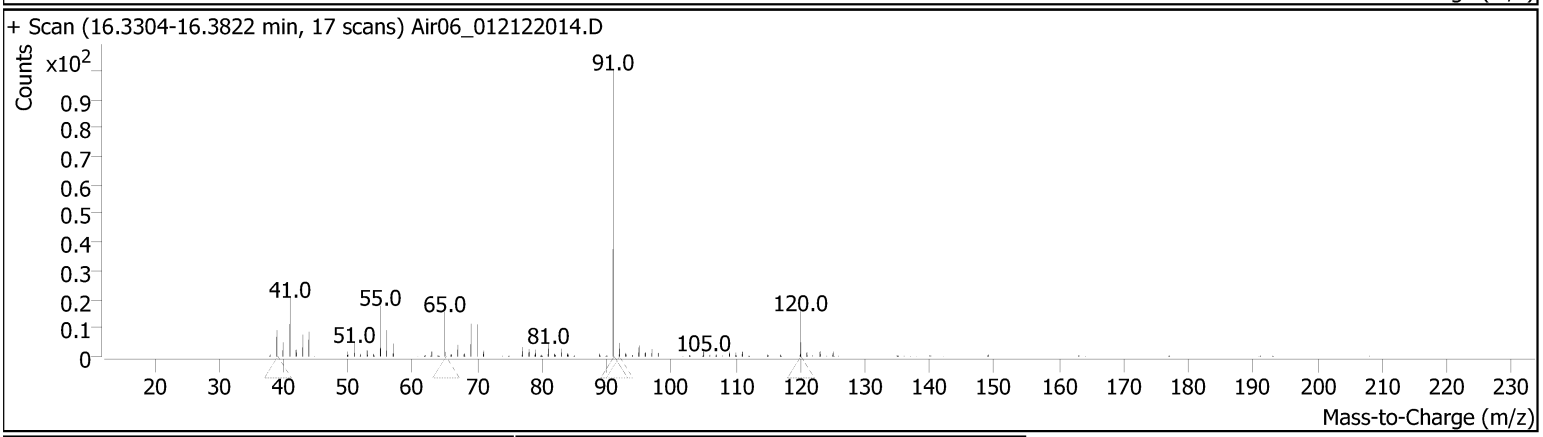



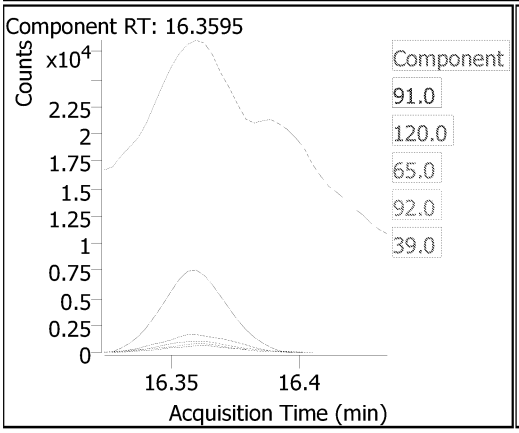



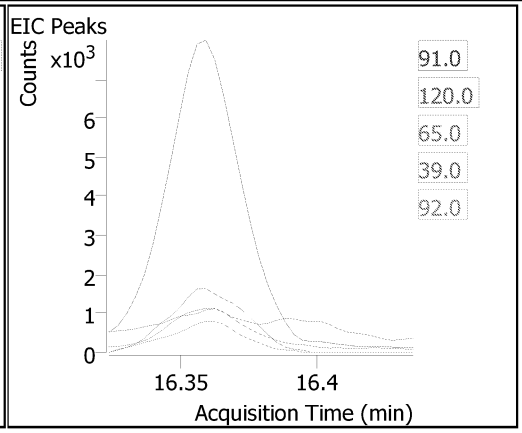
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.3595 | Benzene, propyl- | 42809.0 | 91.9 | 103-65-1 | C9H12 | 0.08974 |

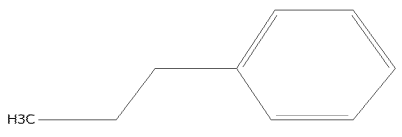


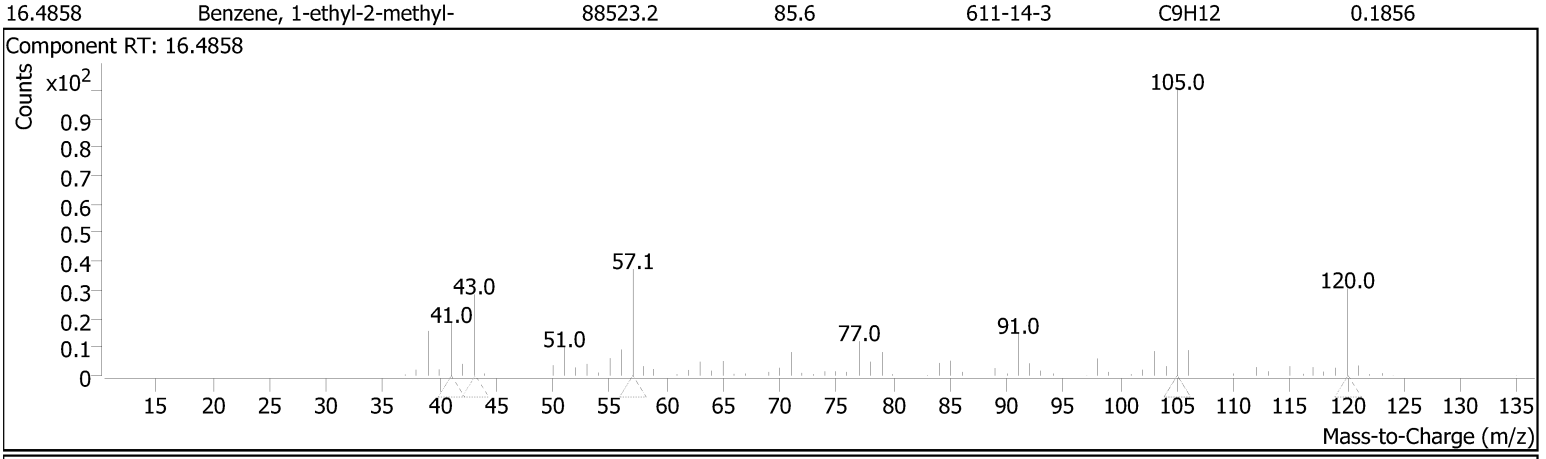



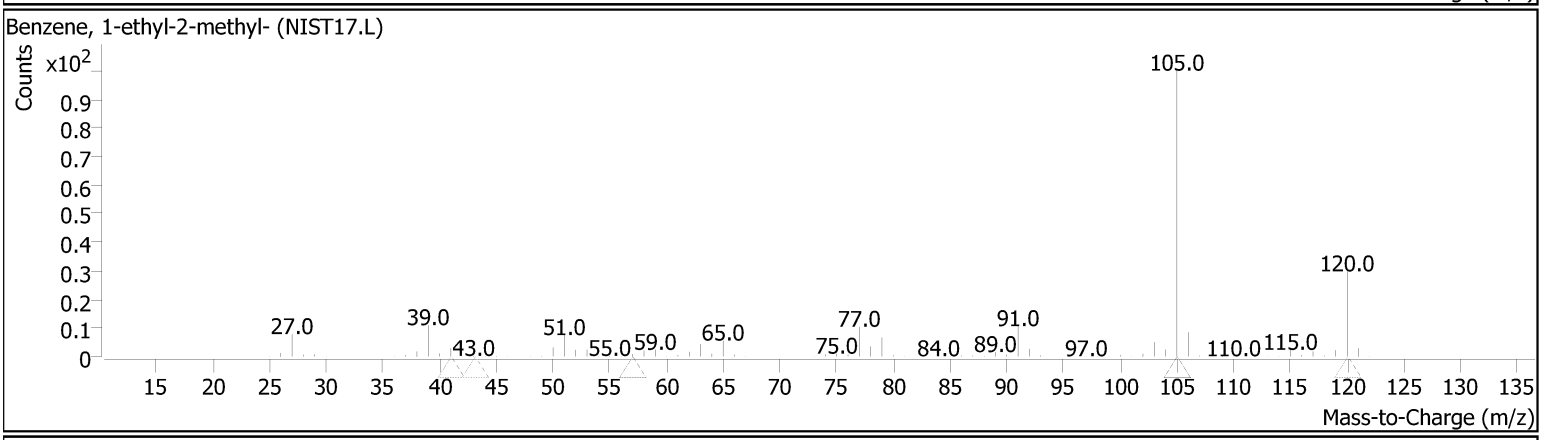



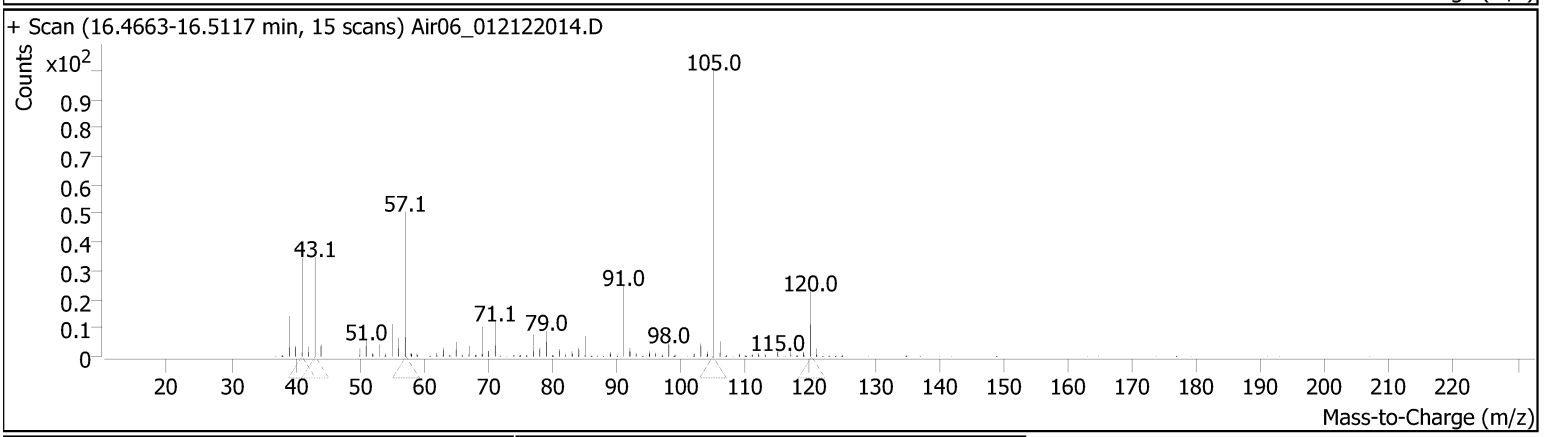



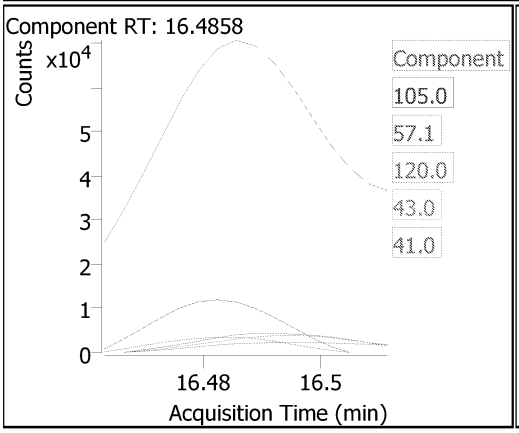



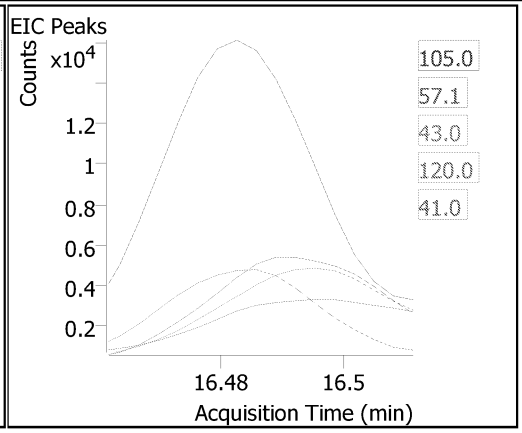
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.4858 | Benzene, 1-ethyl-2-methyl- | 88523.2 | 85.6 | 611-14-3 | C9H12 | 0.1856 |

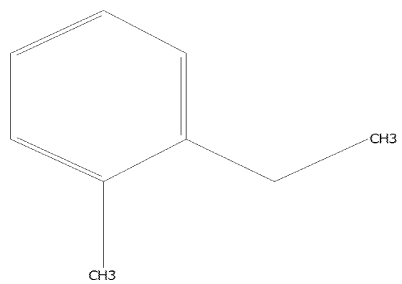


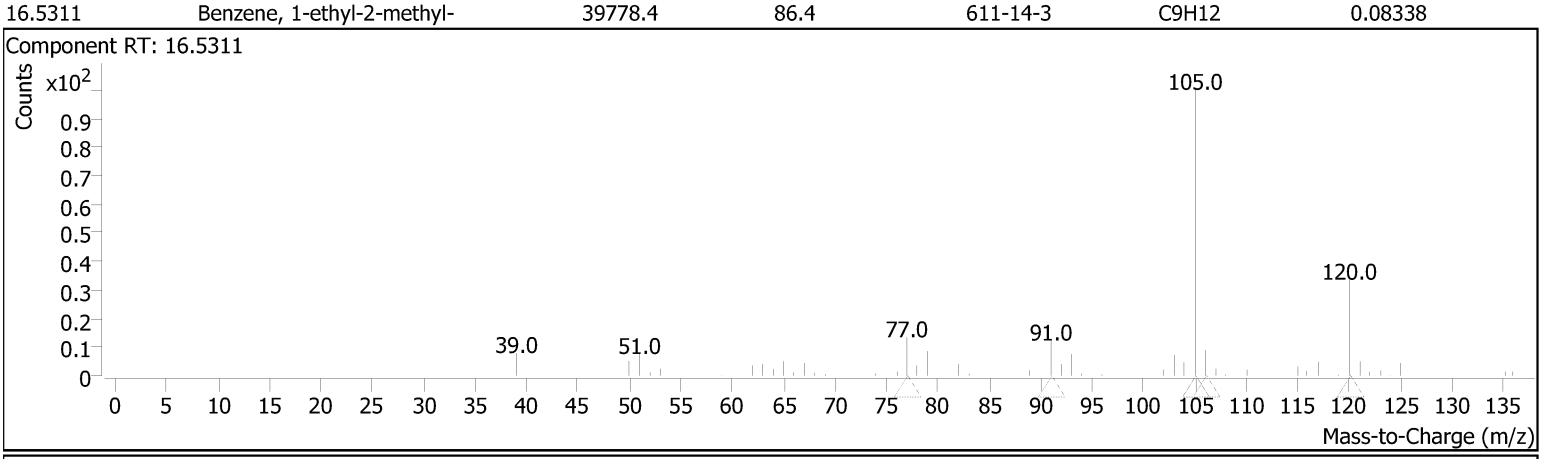



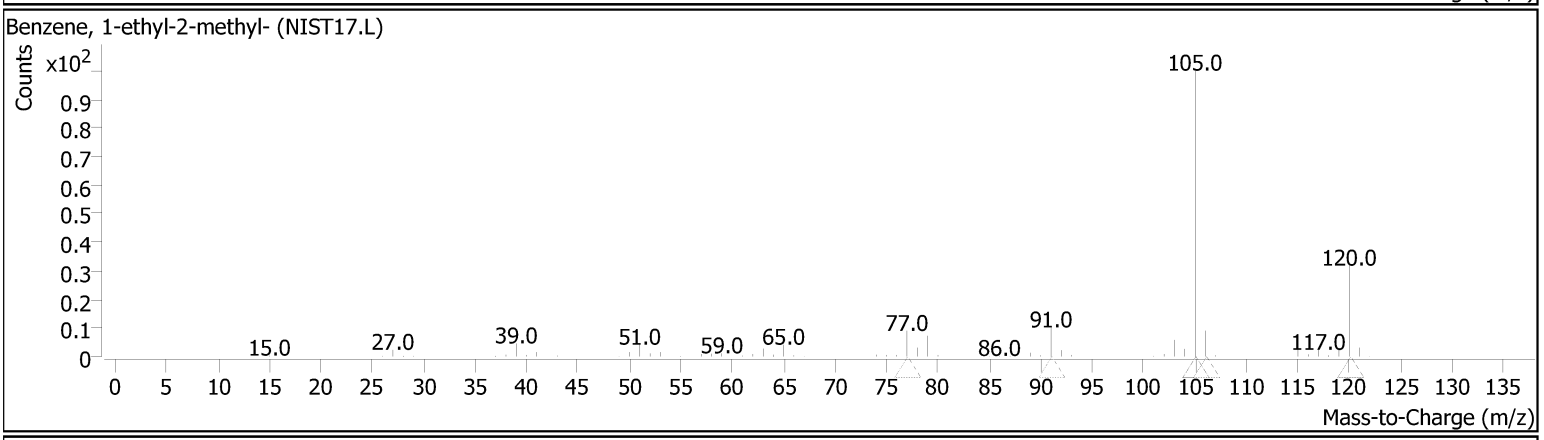



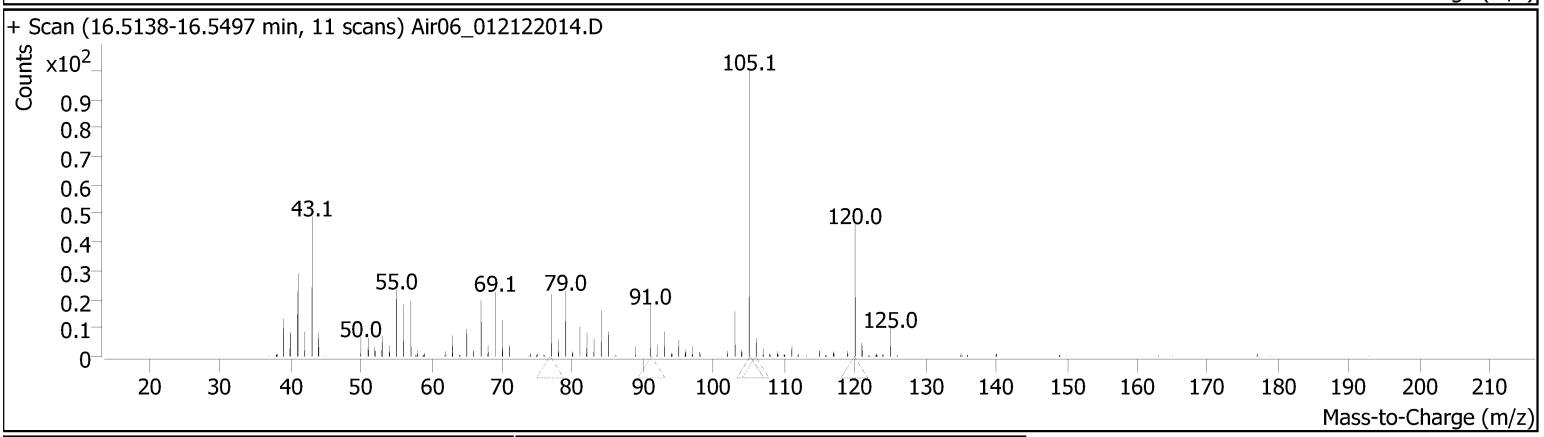



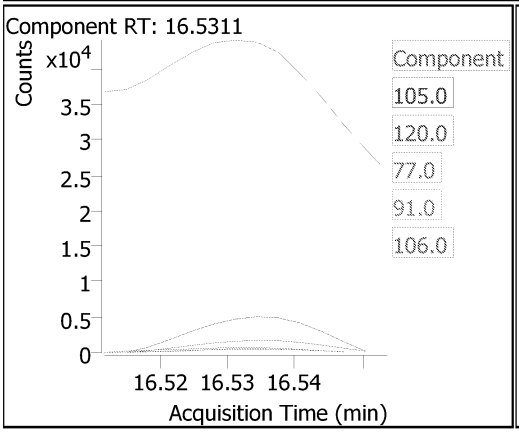



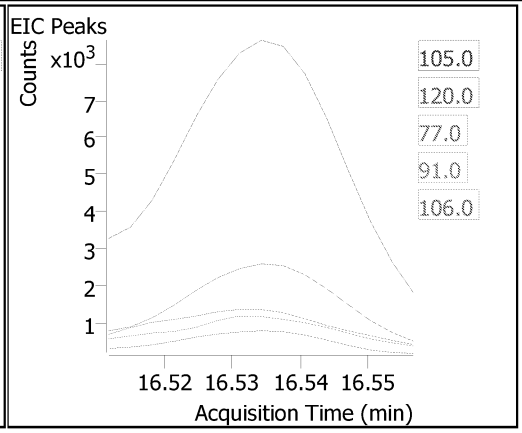
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.5311 | Benzene, 1-ethyl-2-methyl- | 39778.4 | 86.4 | 611-14-3 | C9H12 | 0.08338 |

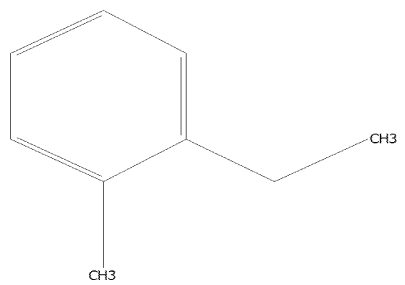


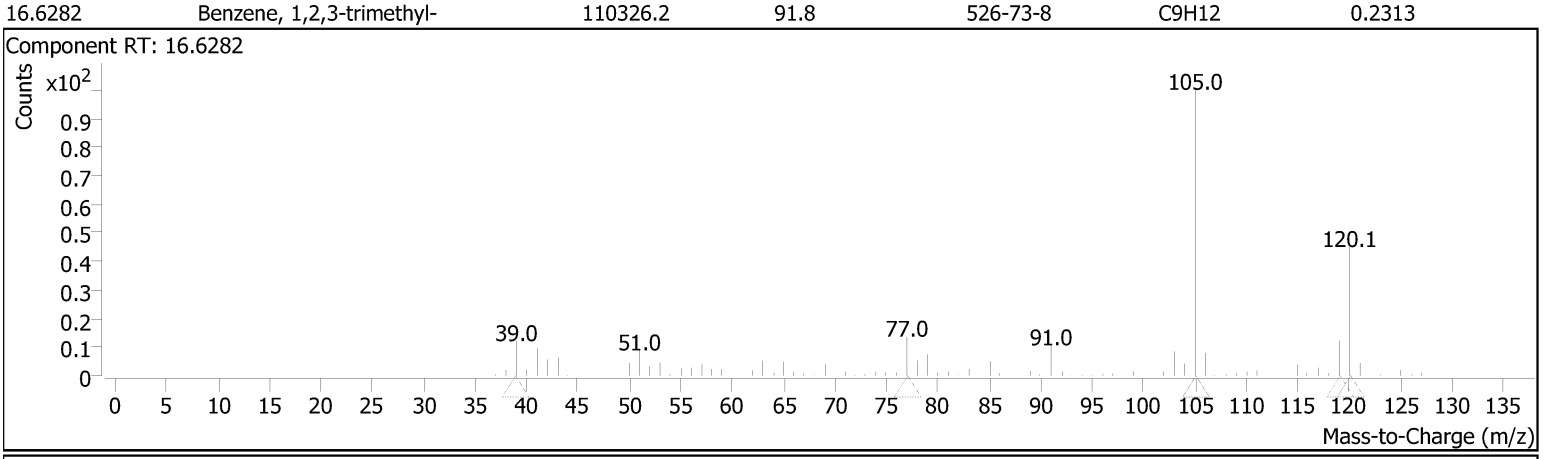



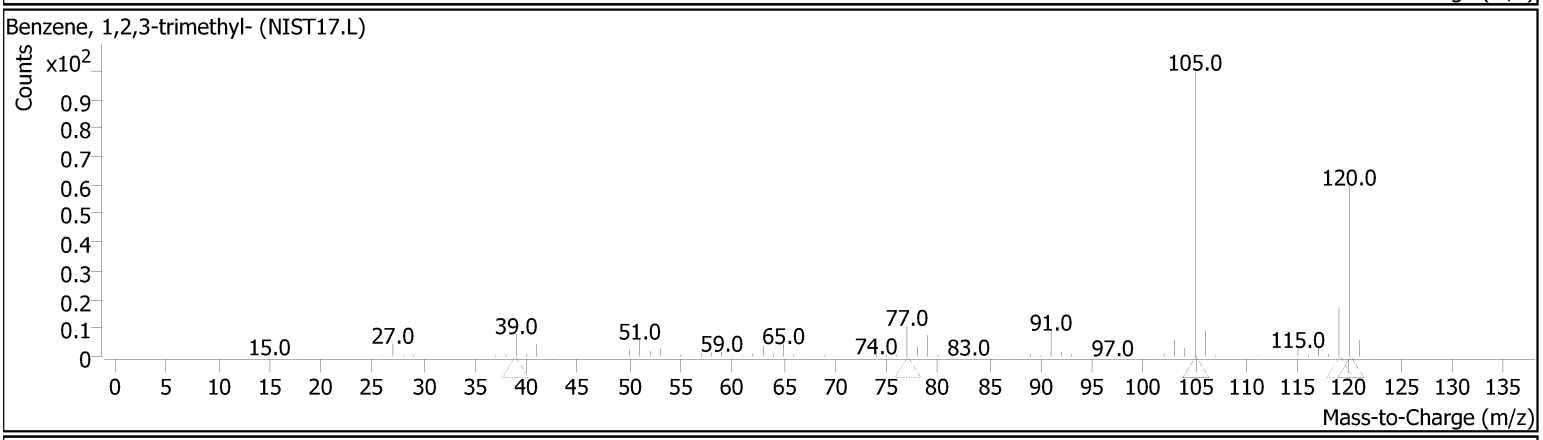



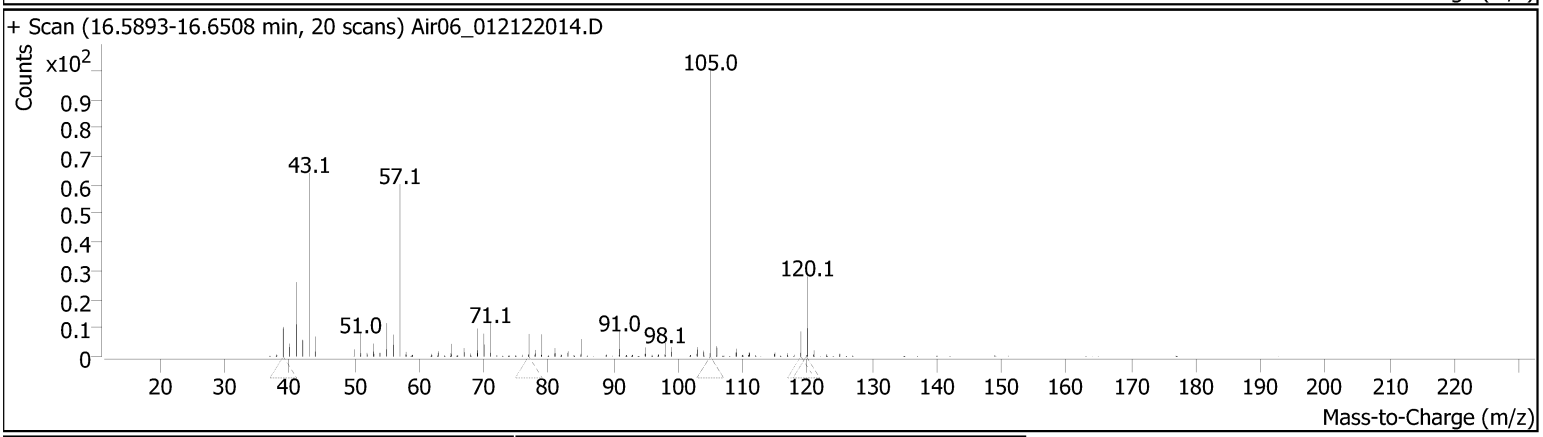



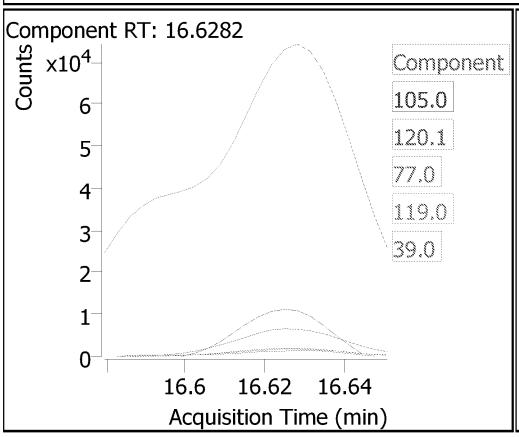



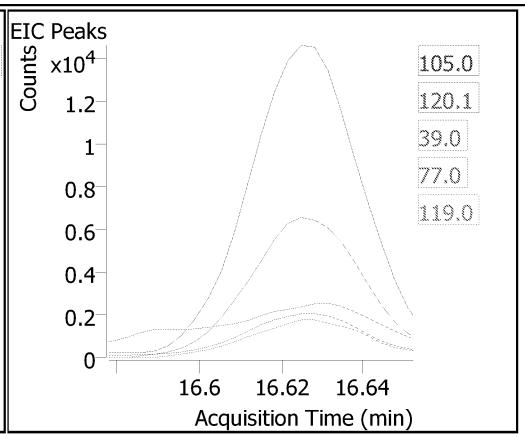
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.6282 | Benzene, 1,2,3-trimethyl- | 110326.2 | 91.8 | 526-73-8 | C9H12 | 0.2313 |

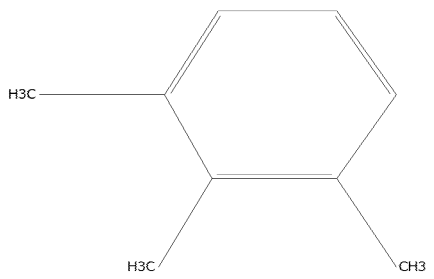


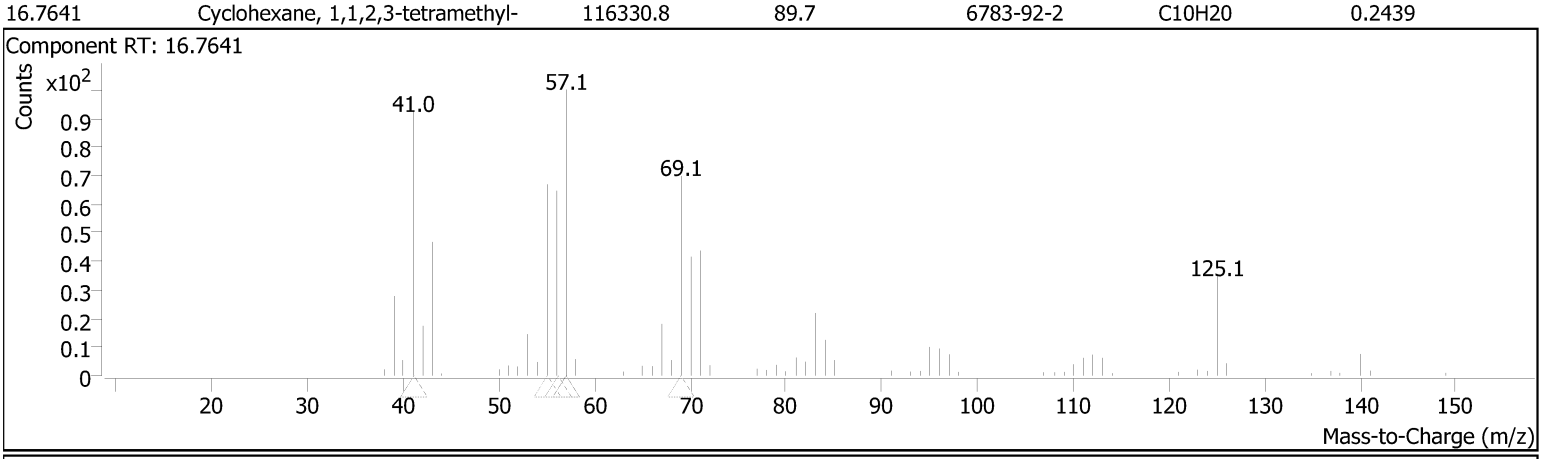



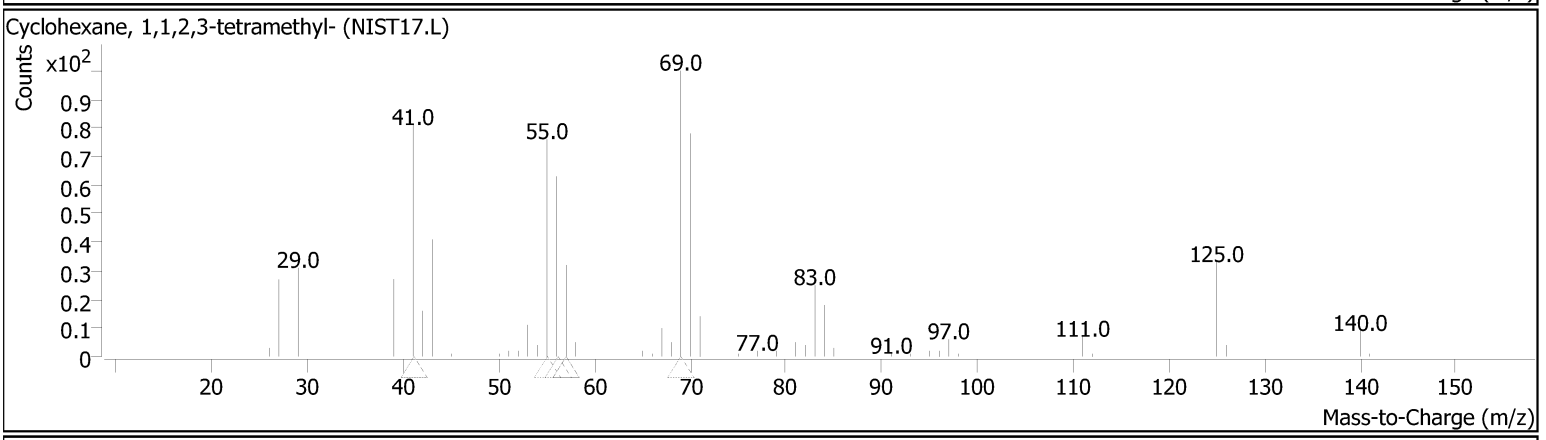



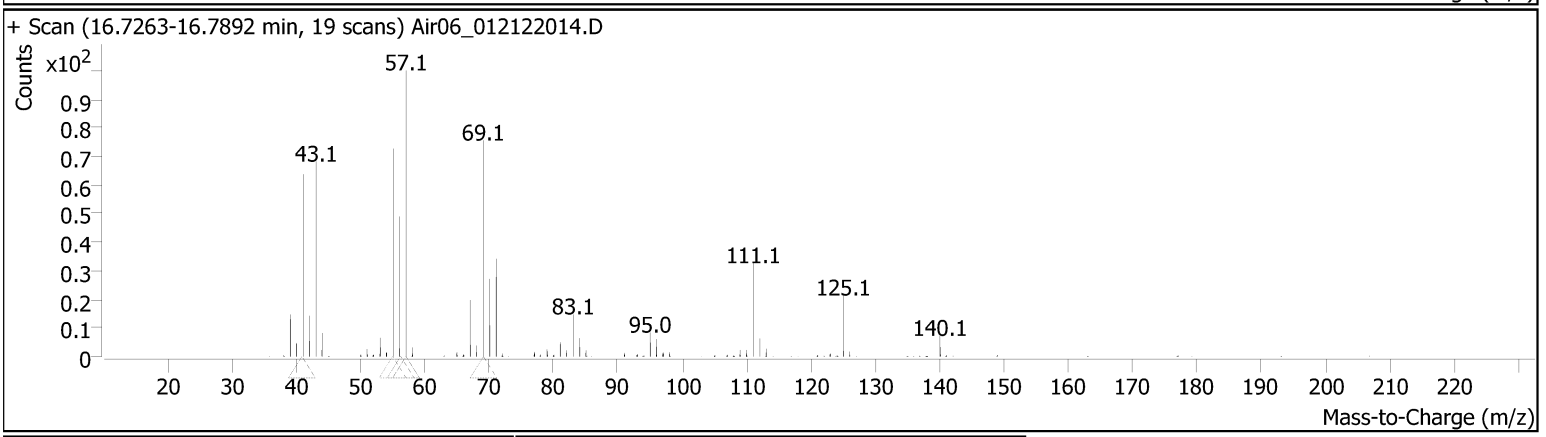



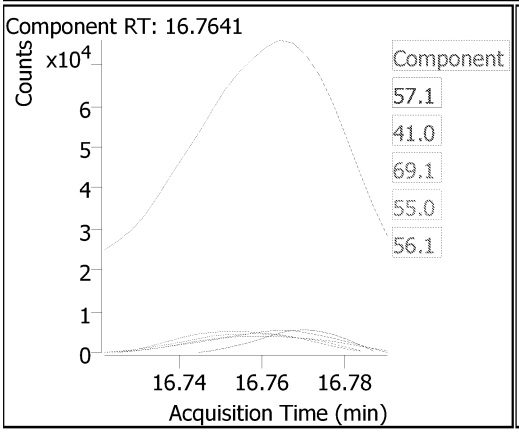



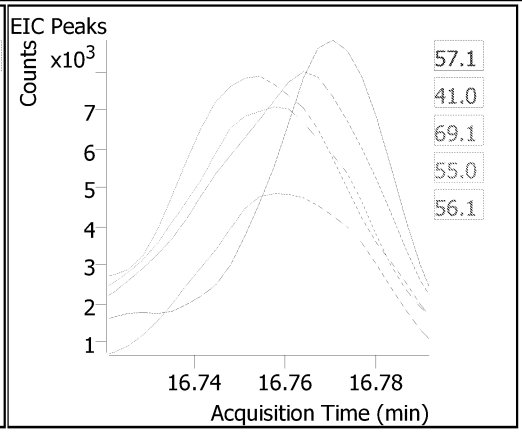
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.7641 | Cyclohexane, 1,1,2,3-tetramethyl- | 116330.8 | 89.7 | 6783-92-2 | C10H20 | 0.2439 |

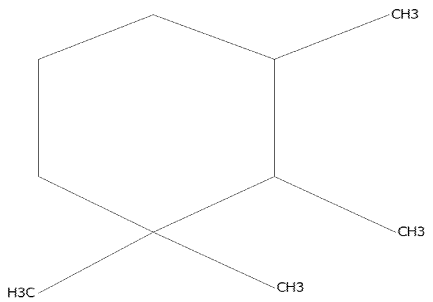


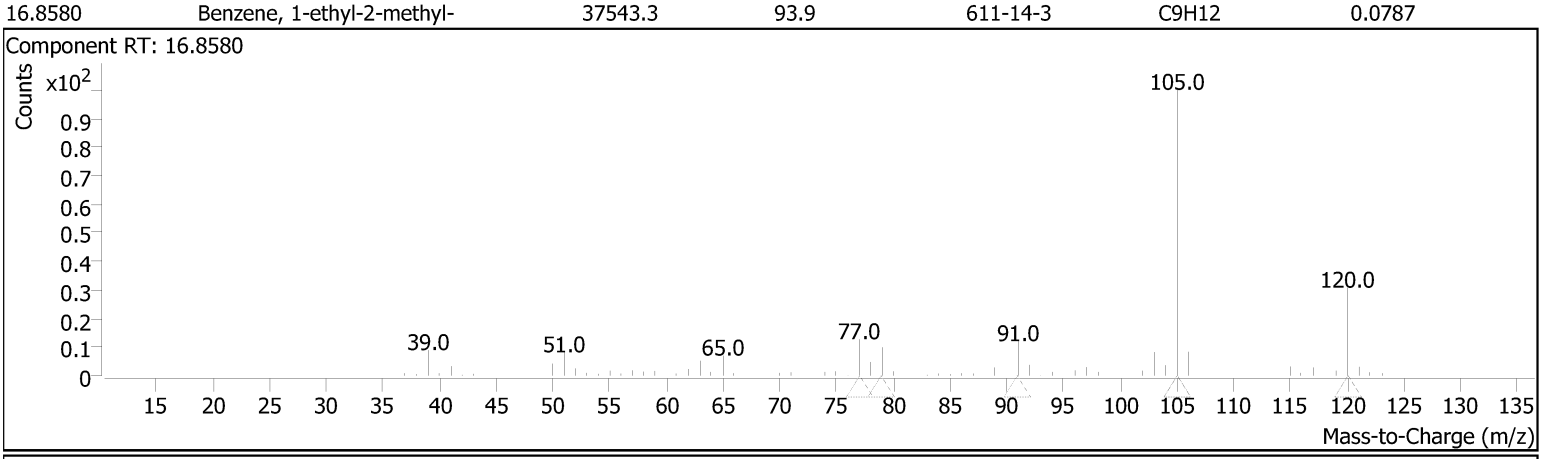



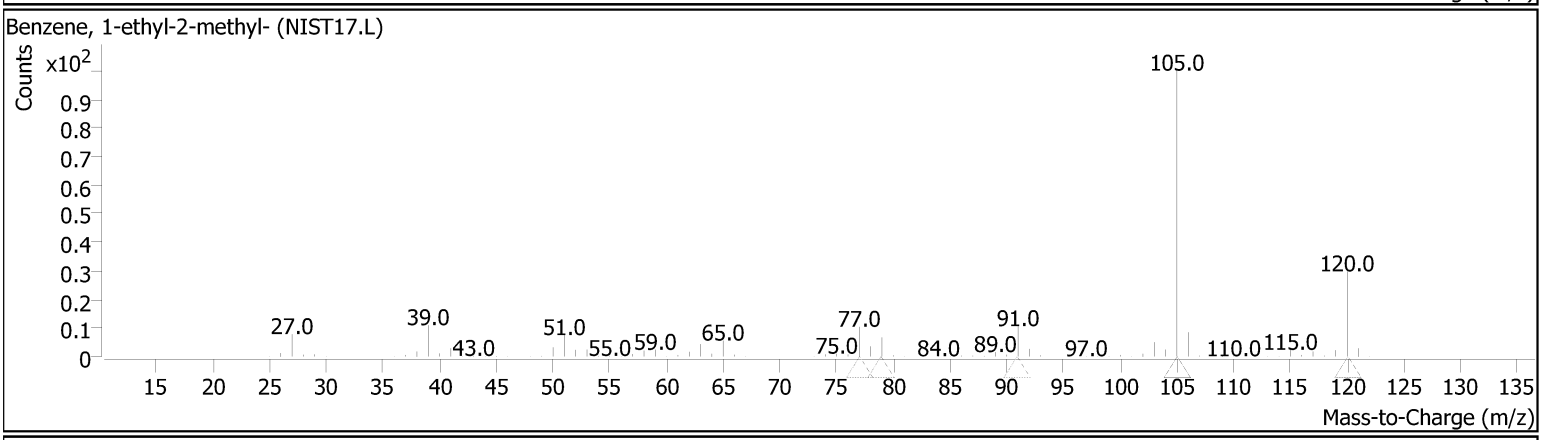



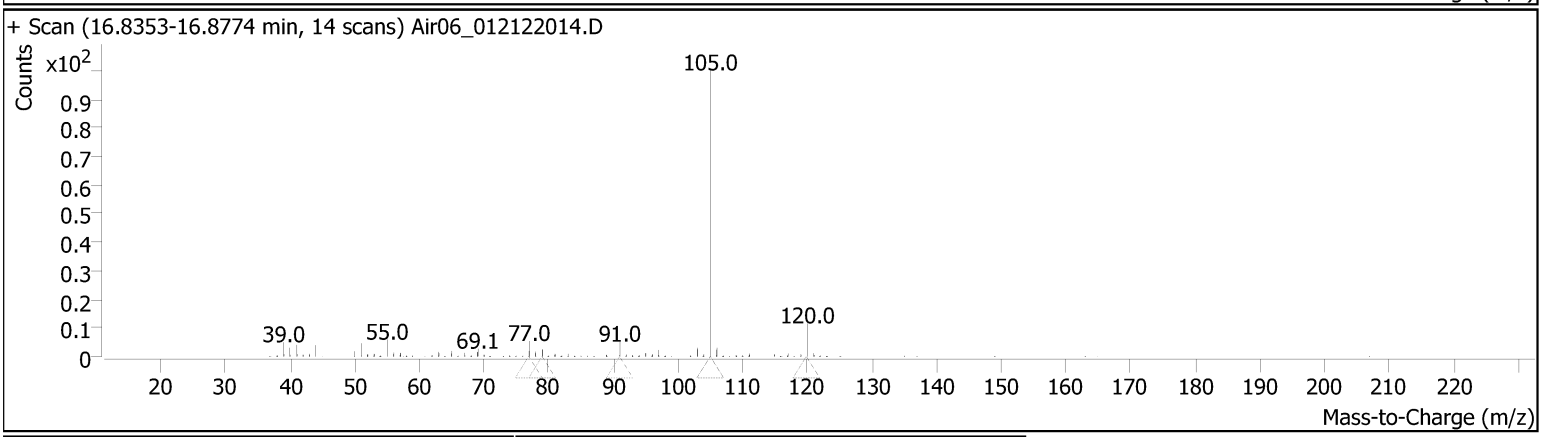



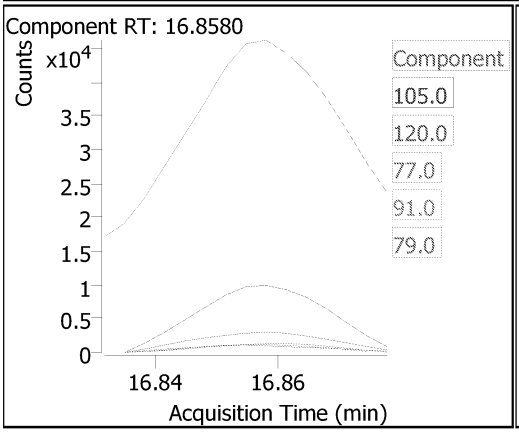



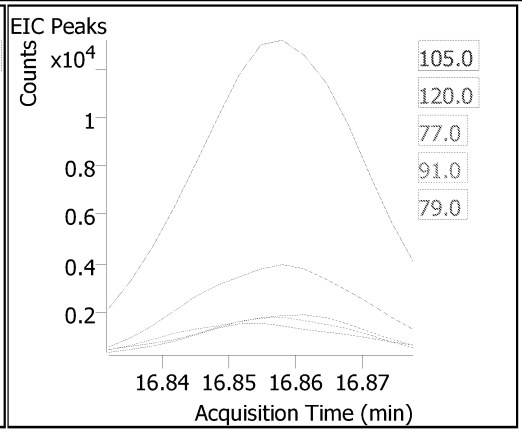
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.8580 | Benzene, 1-ethyl-2-methyl- | 37543.3 | 93.9 | 611-14-3 | C9H12 | 0.0787 |

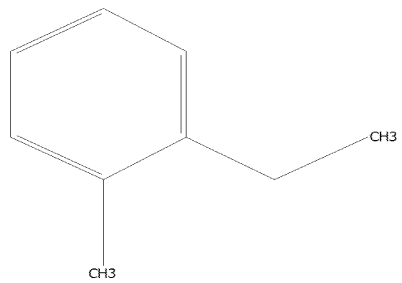


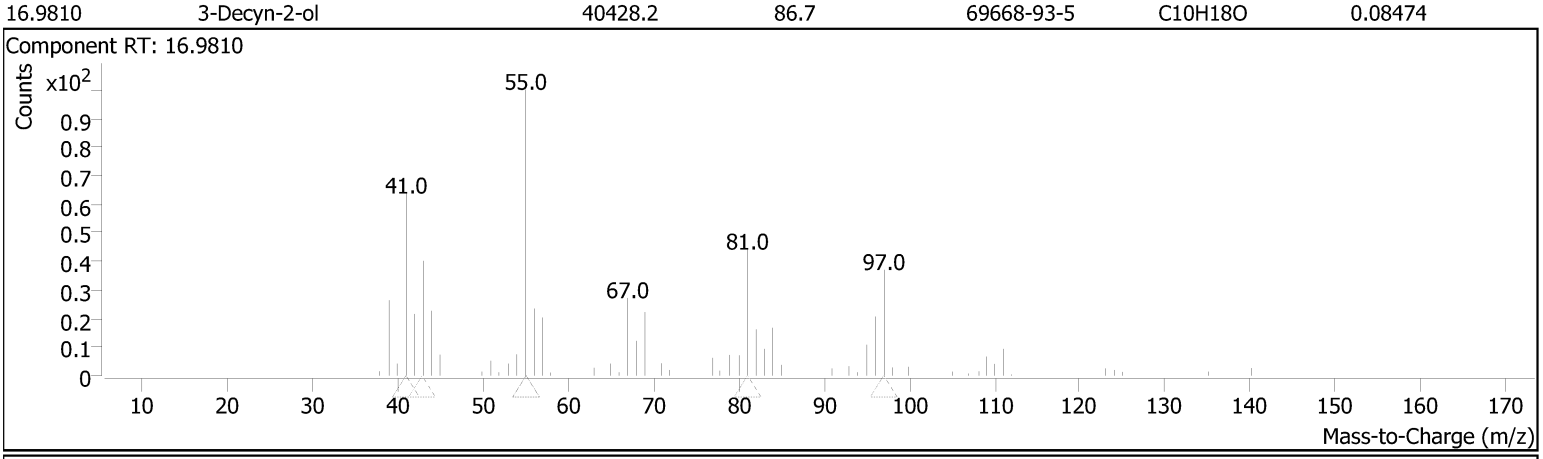



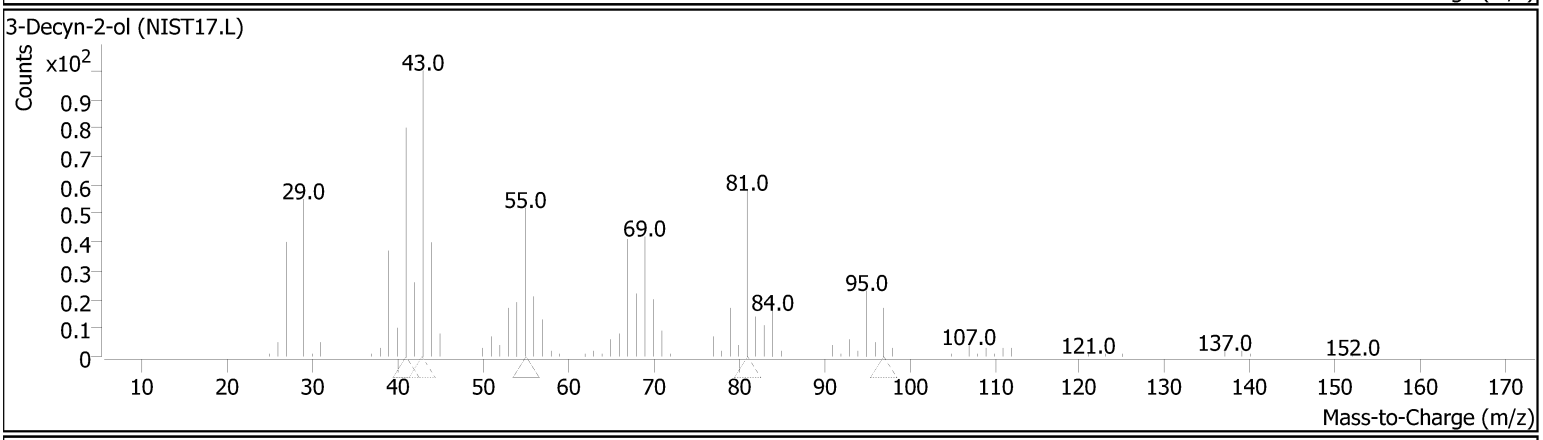



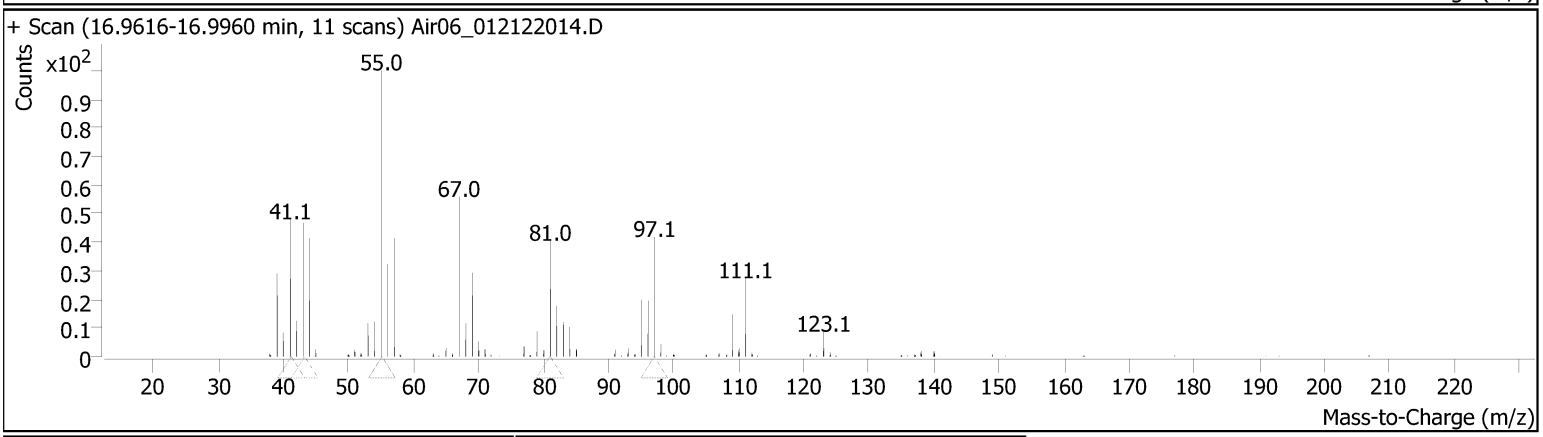



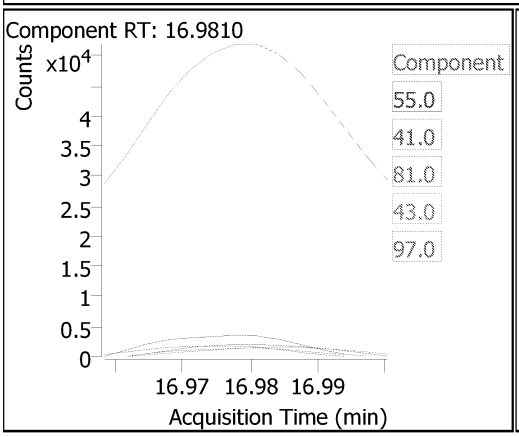



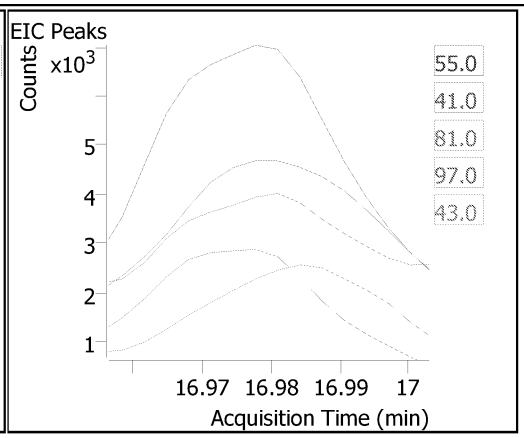
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.9810 | 3-Decyn-2-ol | 40428.2 | 86.7 | 69668-93-5 | C10H18O | 0.08474 |

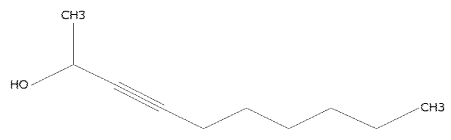


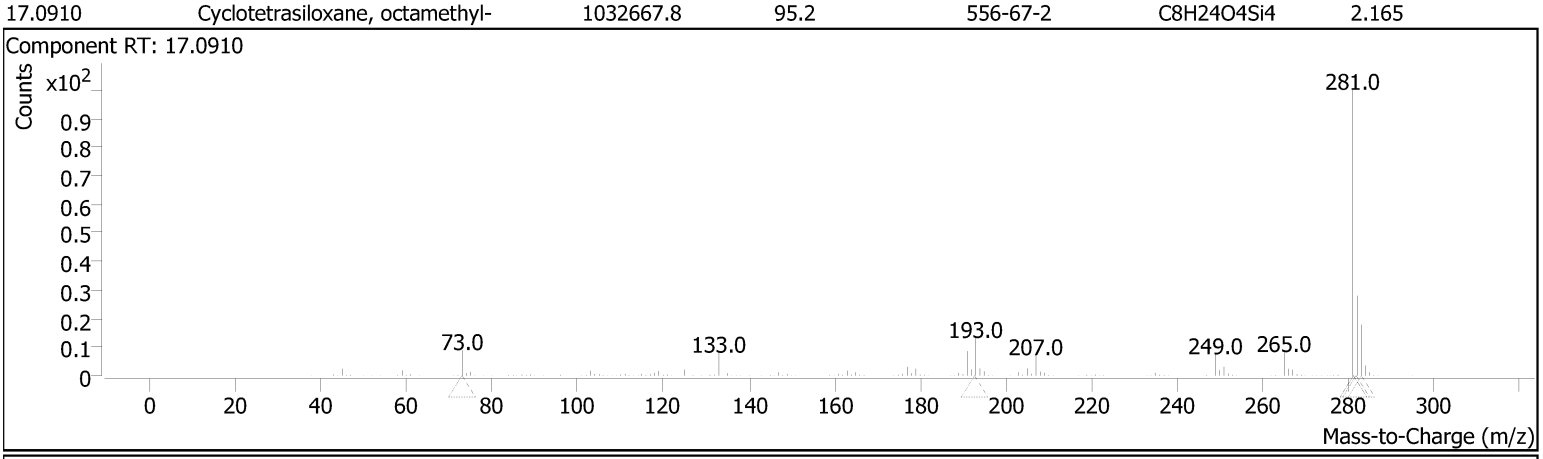



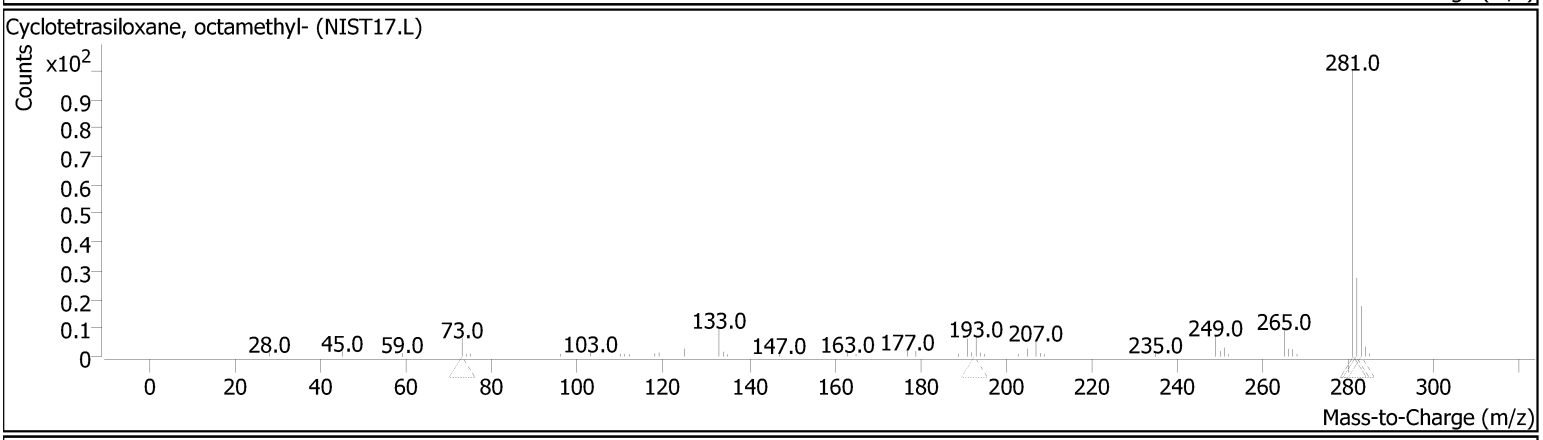



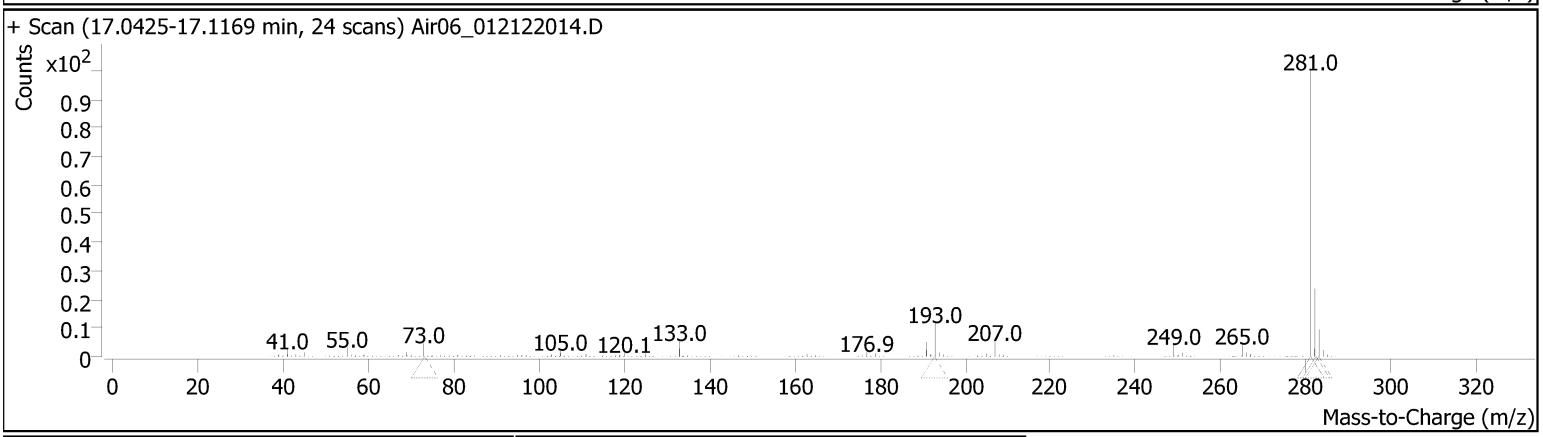



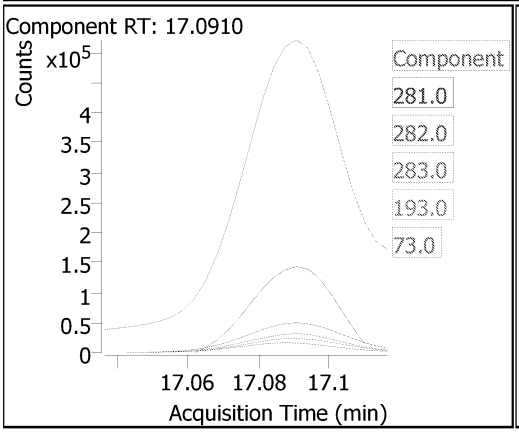



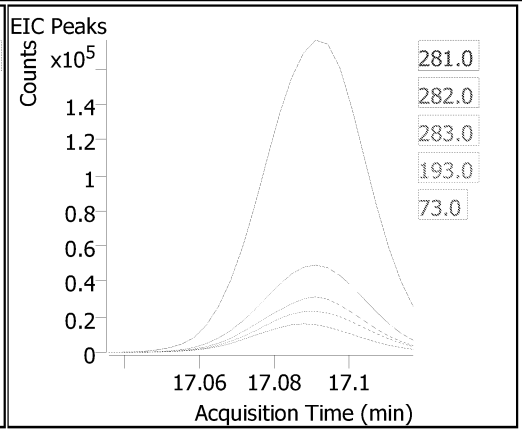
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.0910 | Cyclotetrasiloxane, octamethyl- | 1032667.8 | 95.2 | 556-67-2 | C8H24O4Si4 | 2.165 |

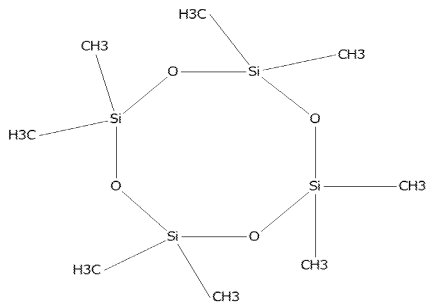


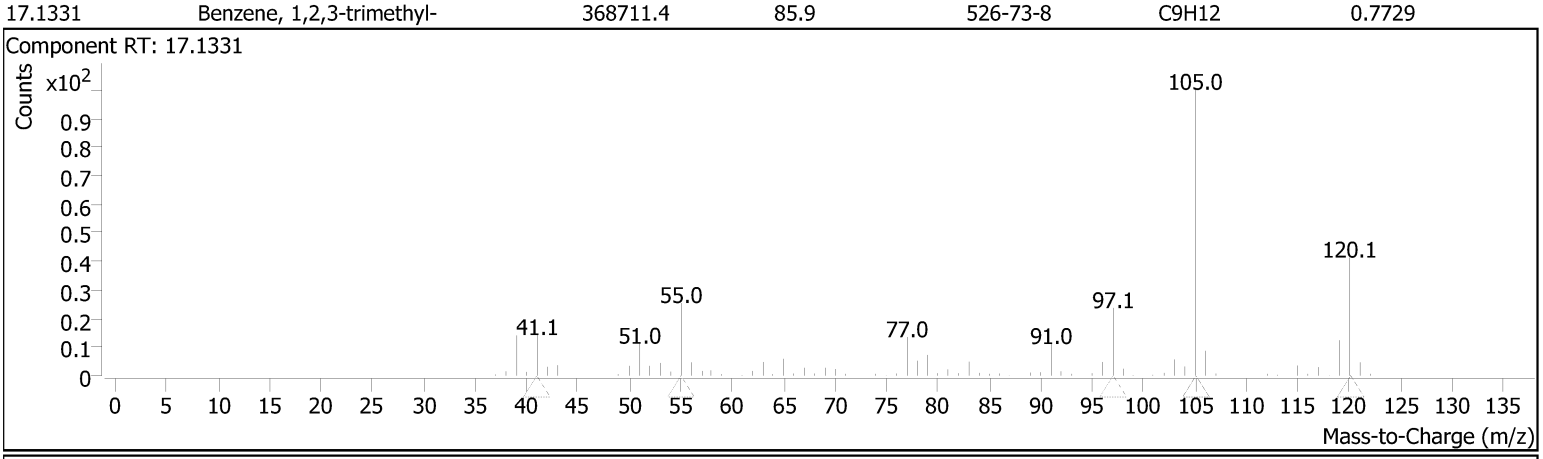



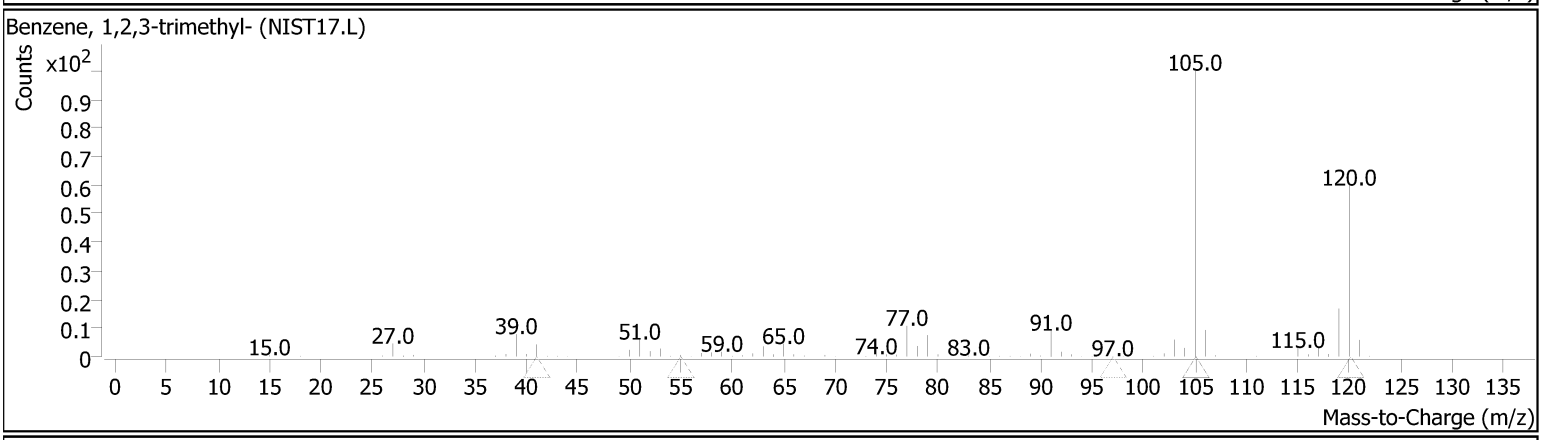



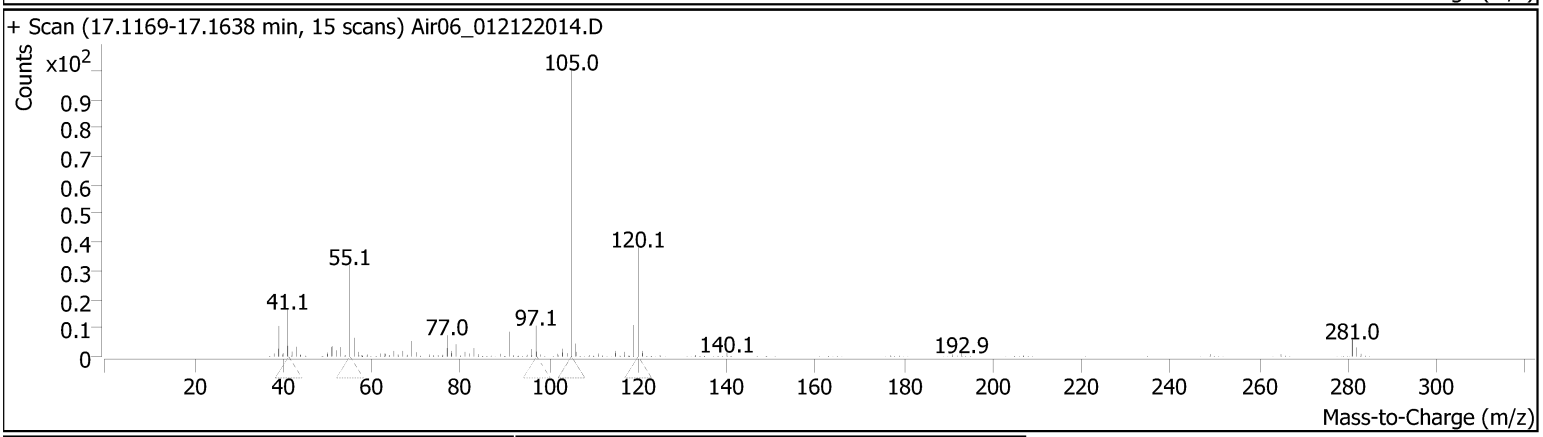



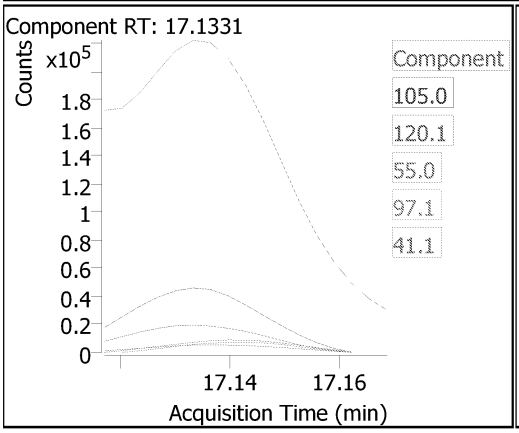



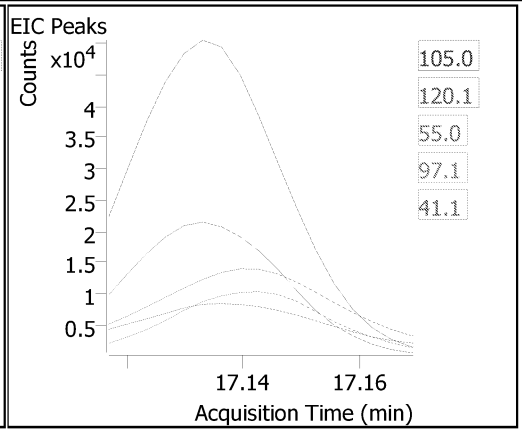
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.1331 | Benzene, 1,2,3-trimethyl- | 368711.4 | 85.9 | 526-73-8 | C9H12 | 0.7729 |

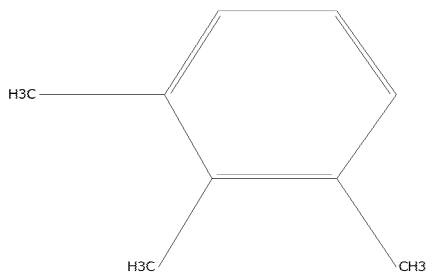


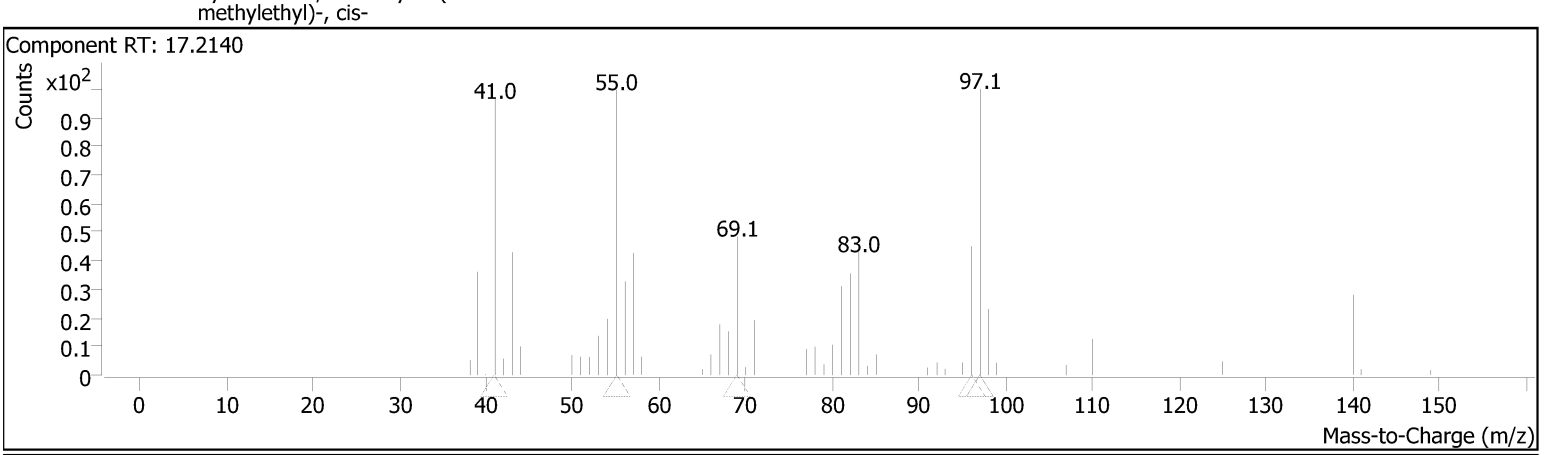



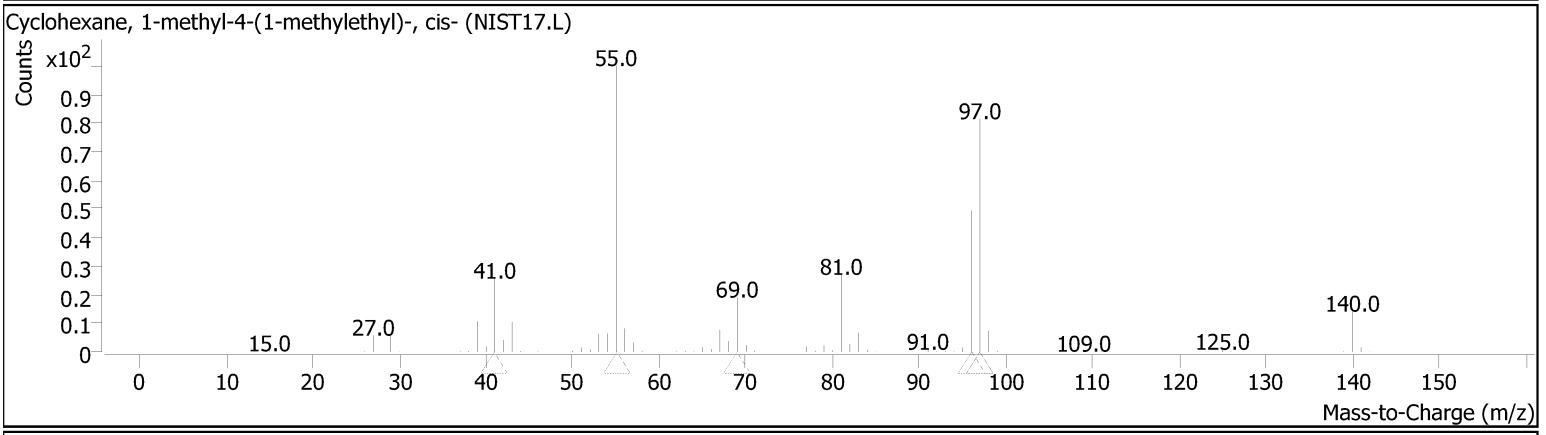



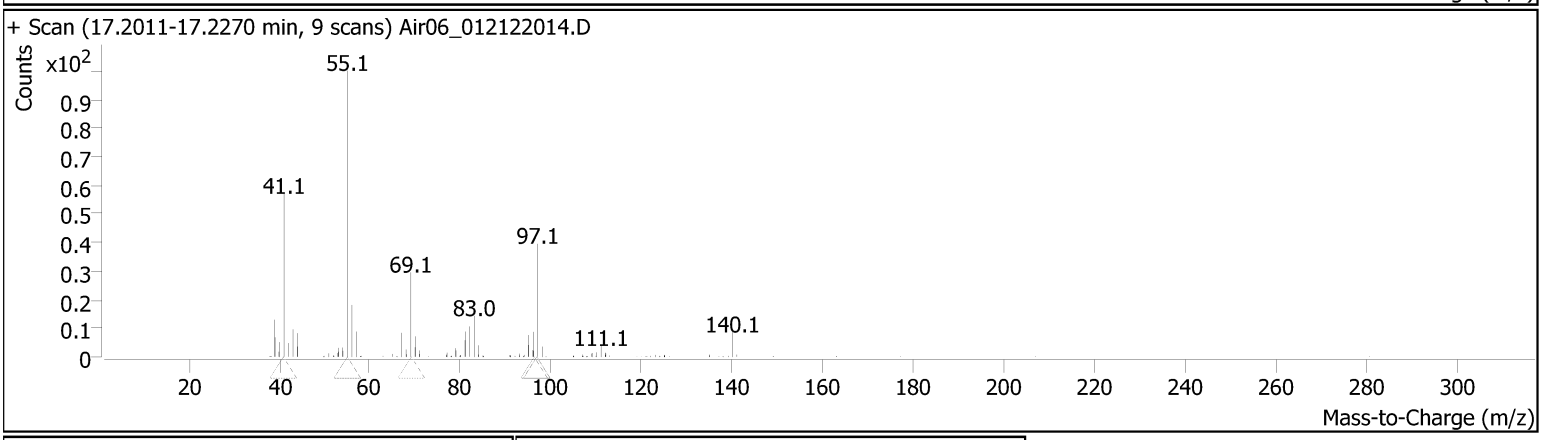



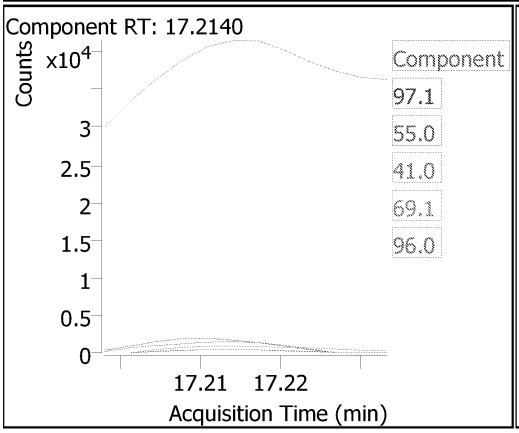



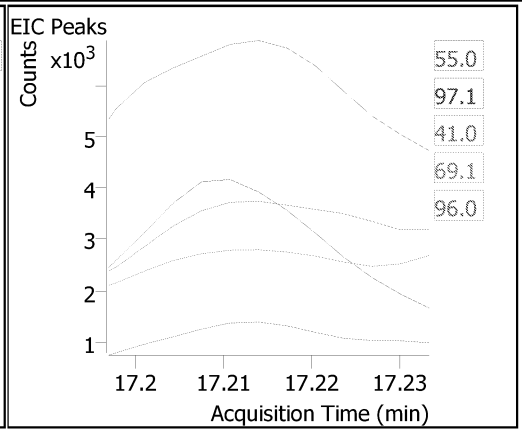
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.2140 | Cyclohexane, 1-methyl-4-(1-methylethyl)-, cis- | 18621.5 | 85.7 | 6069-98-3 | C10H20 | 0.03903 |

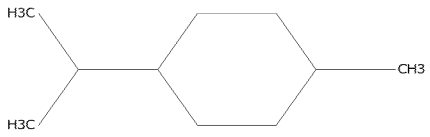


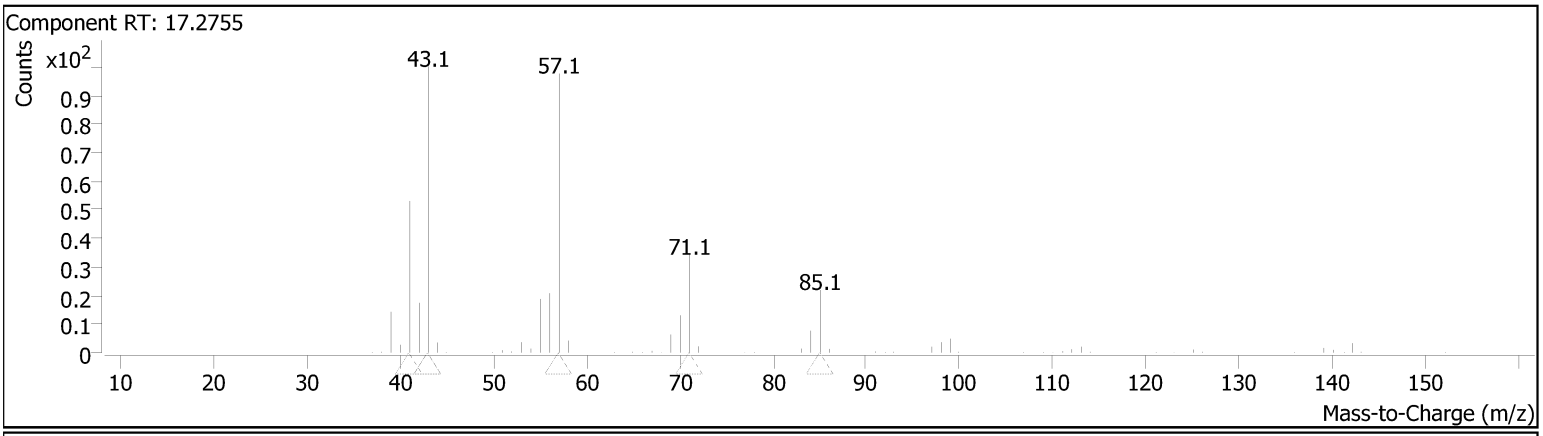



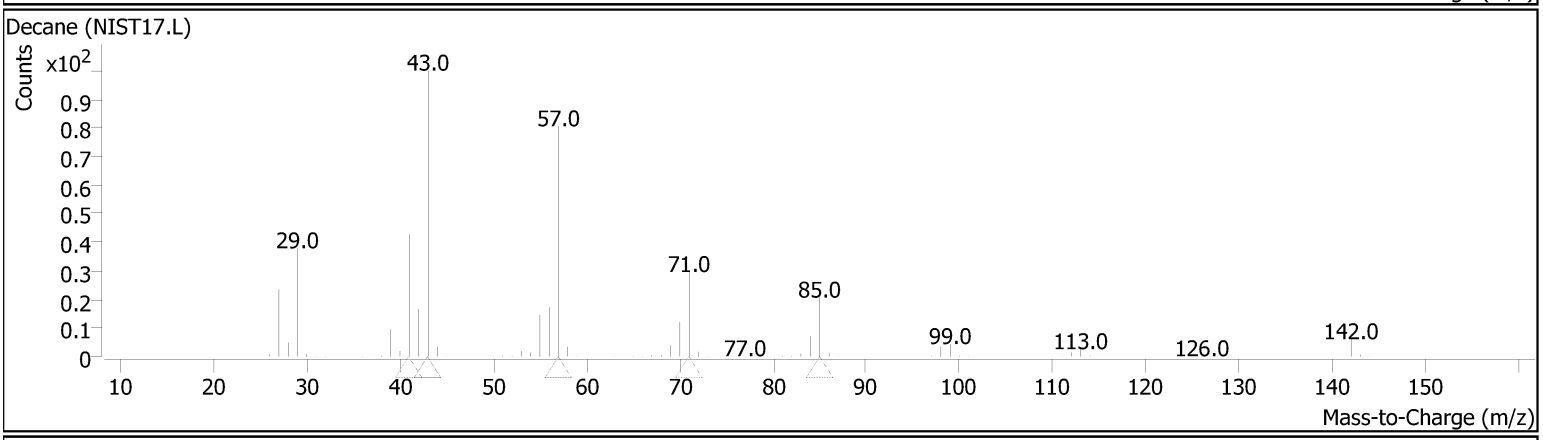



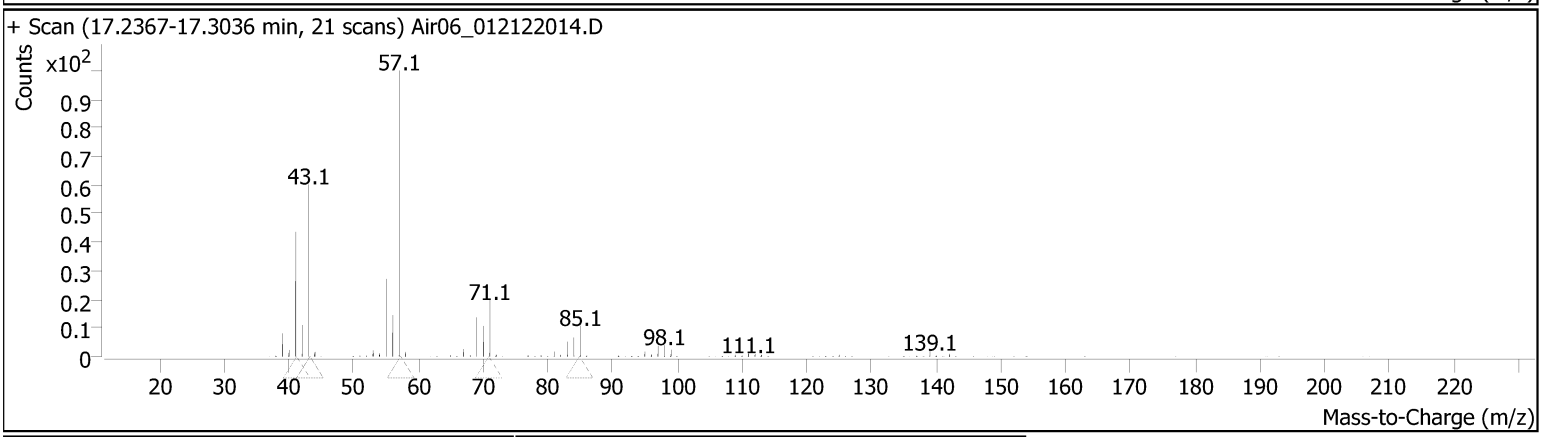



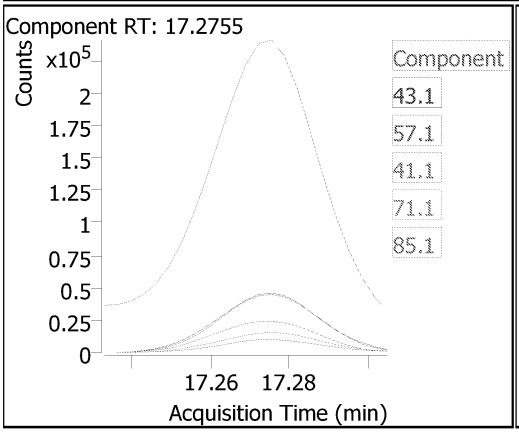



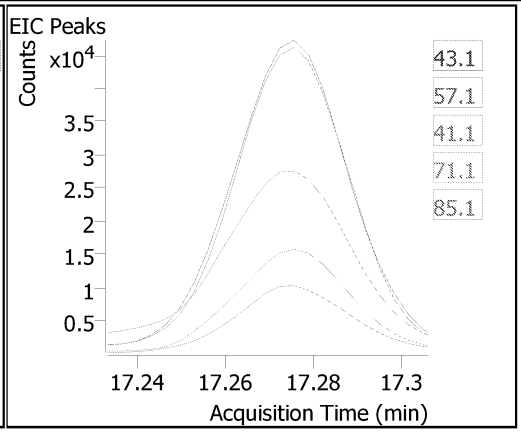
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.2755 | Decane | 395594.7 | 96.3 | 124-18-5 | C10H22 | 0.8292 |



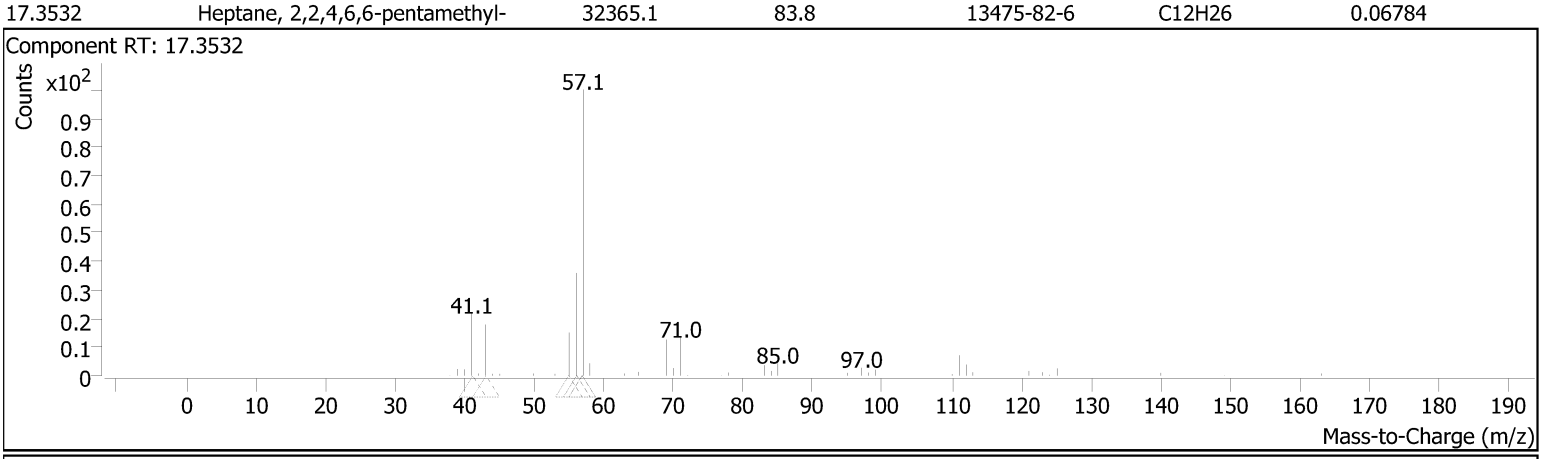



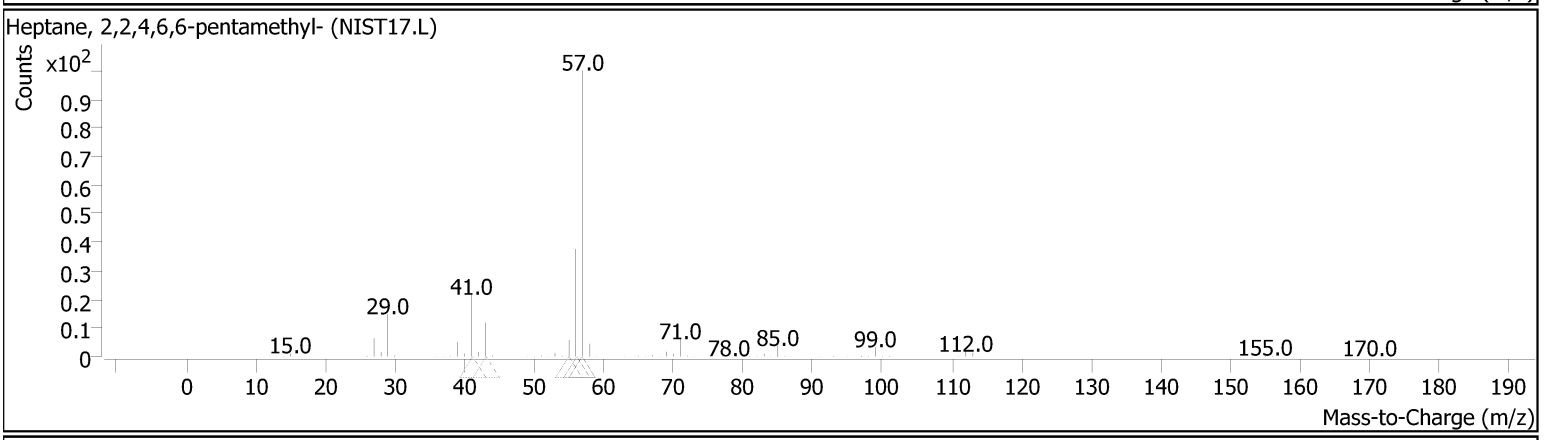



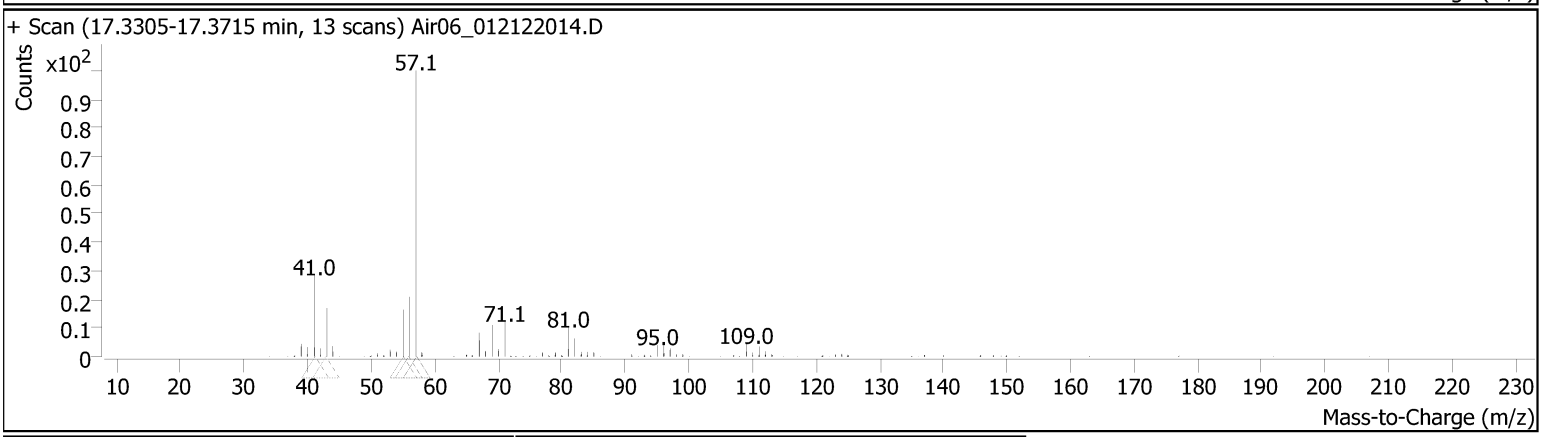



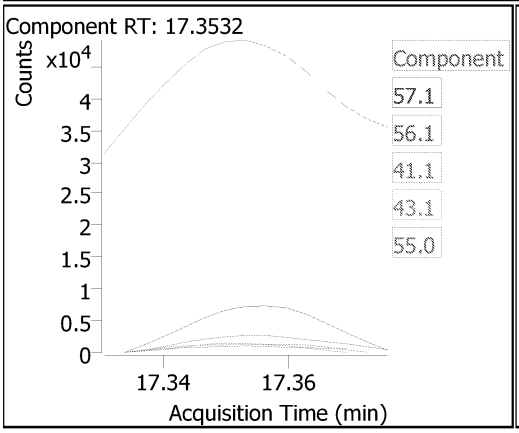


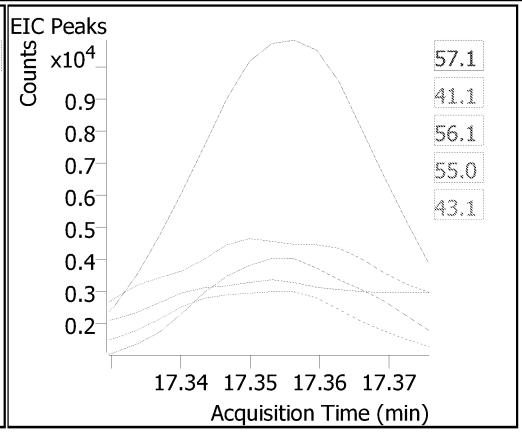

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.3532 | Heptane, 2,2,4,6,6-pentamethyl- | 32365.1 | 83.8 | 13475-82-6 | C12H26 | 0.06784 |

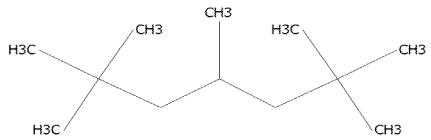


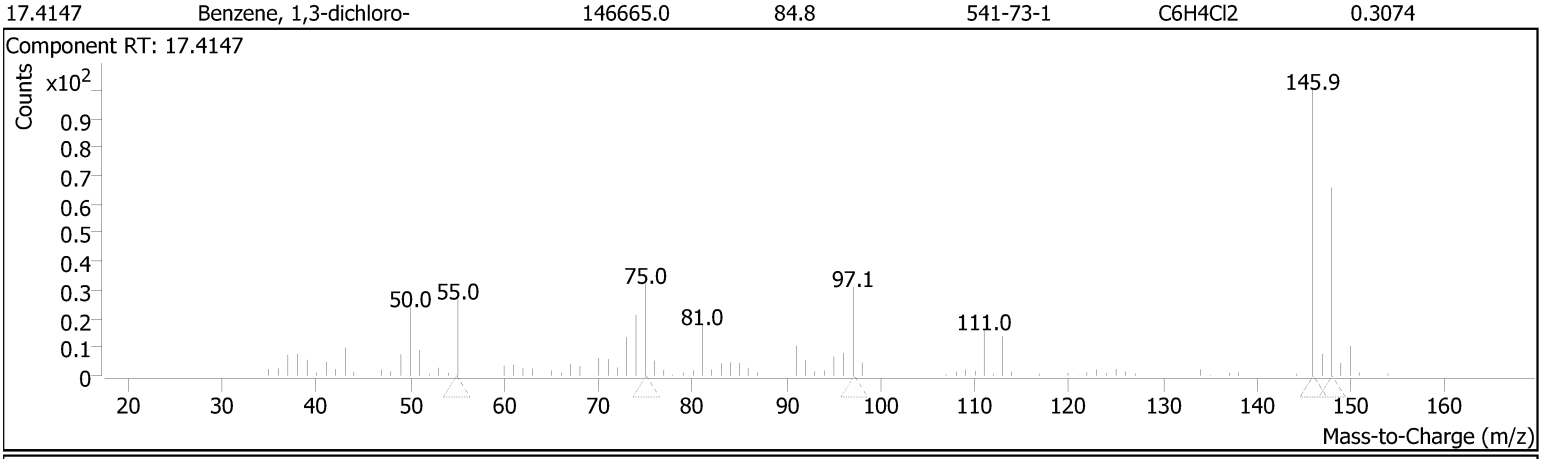



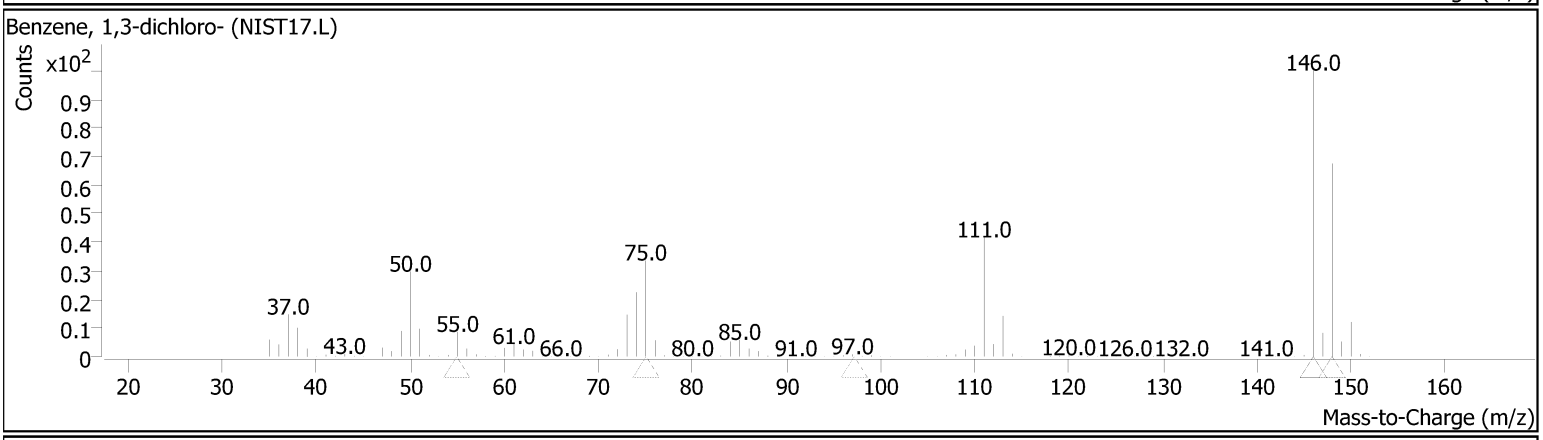



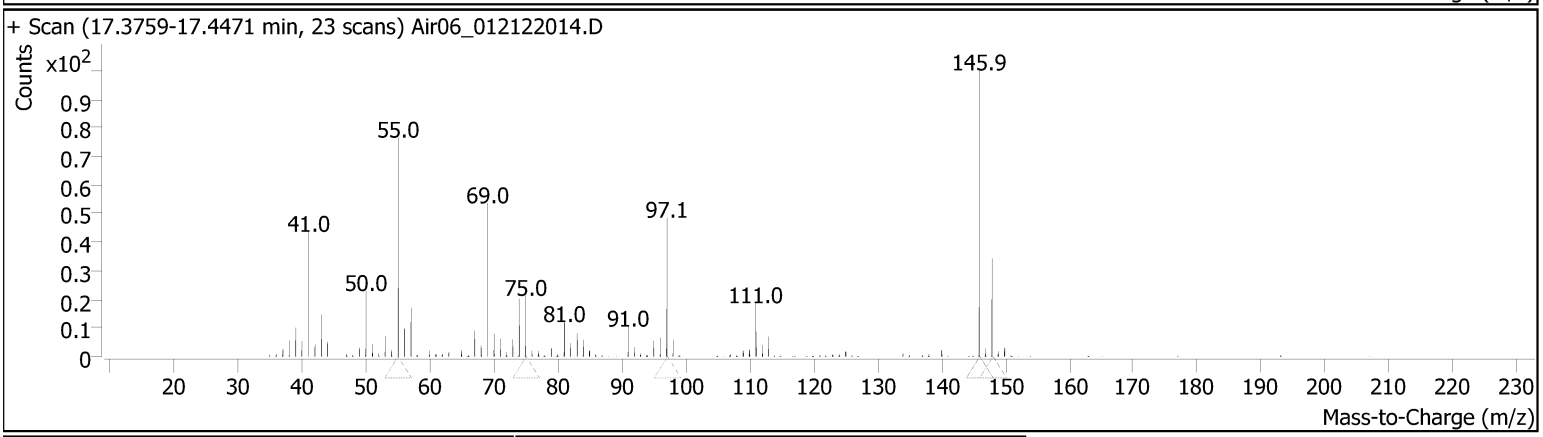



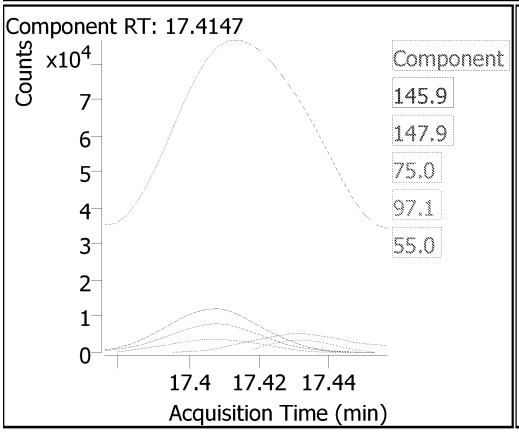



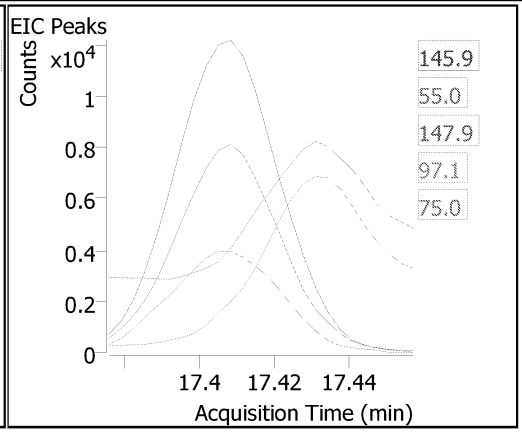
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4147 | Benzene, 1,3-dichloro- | 146665.0 | 84.8 | 541-73-1 | C6H4Cl2 | 0.3074 |

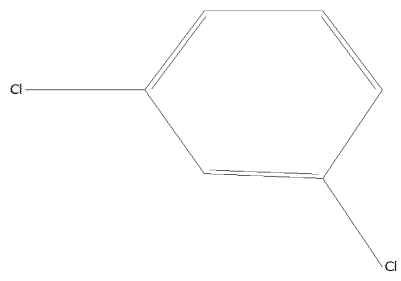


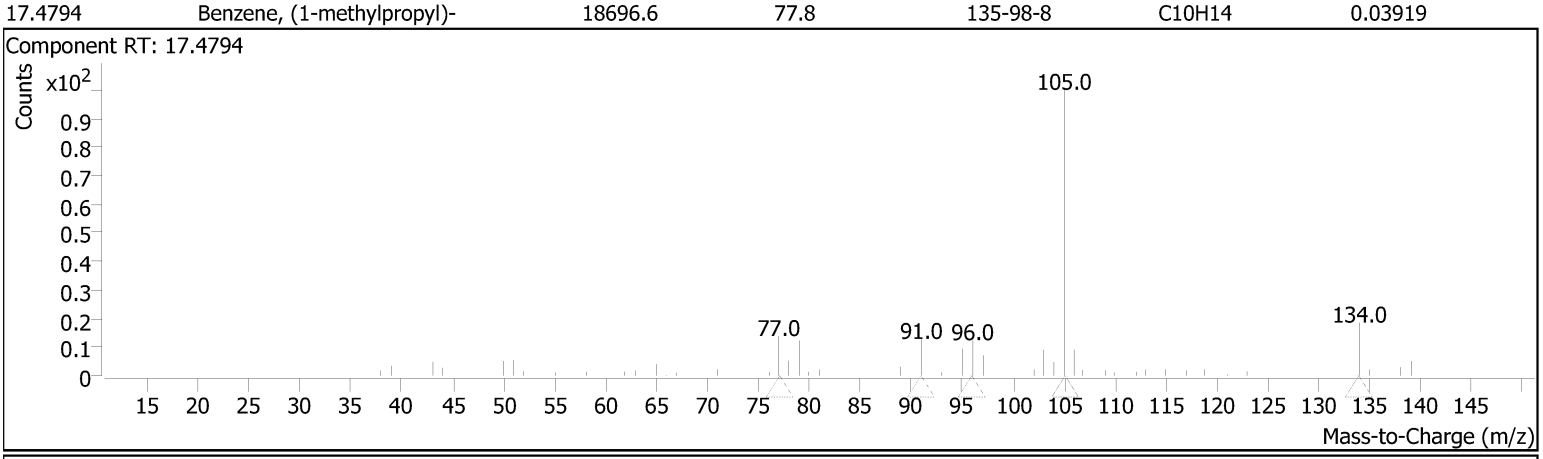



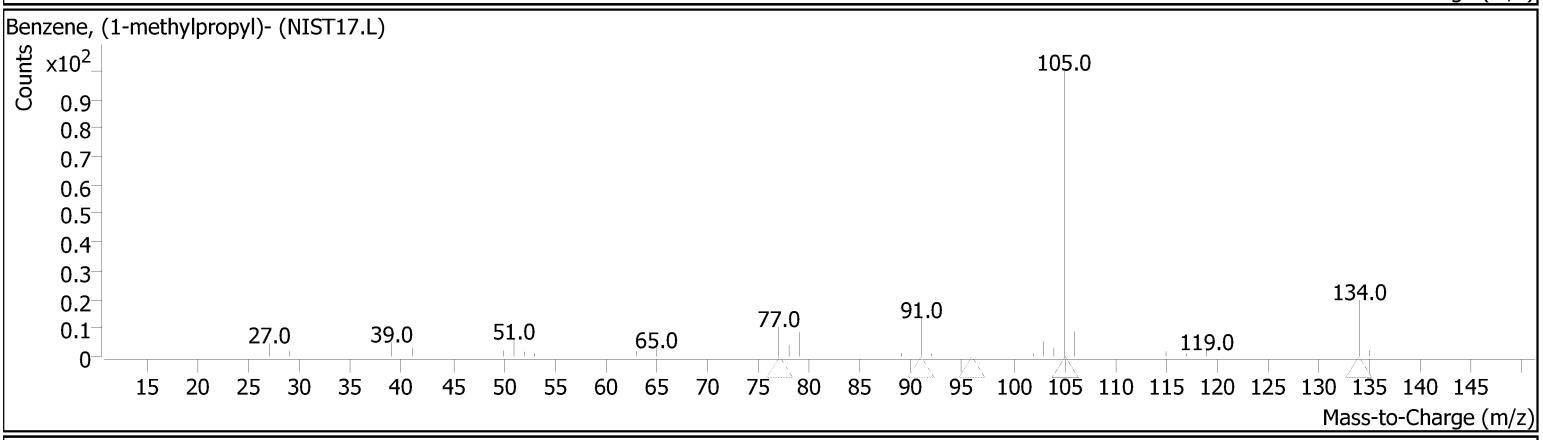



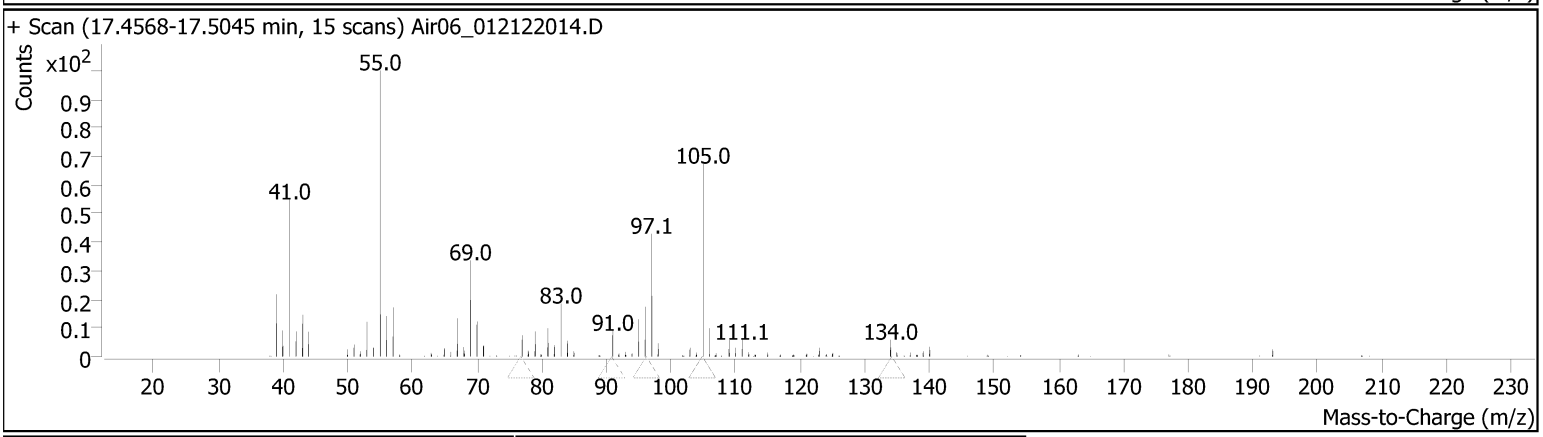



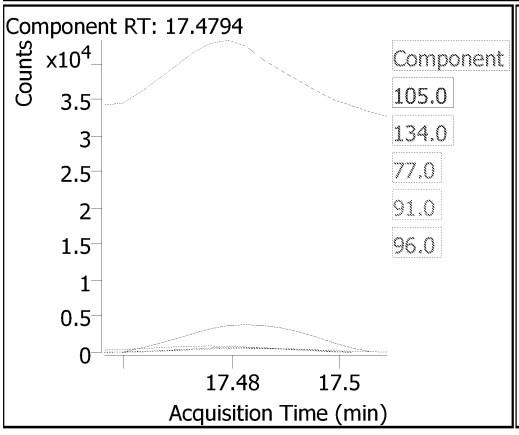



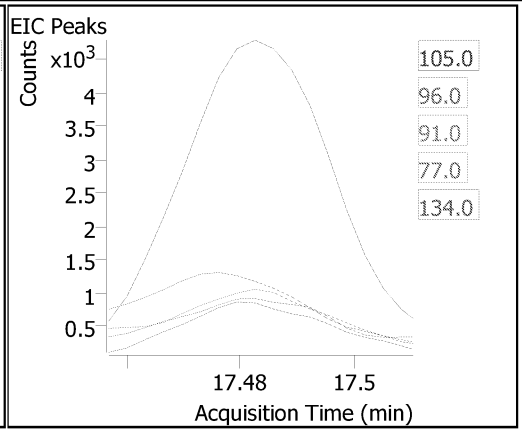
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4794 | Benzene, (1-methylpropyl)- | 18696.6 | 77.8 | 135-98-8 | C10H14 | 0.03919 |

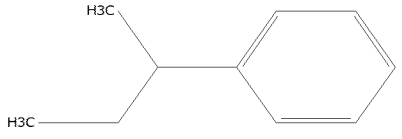


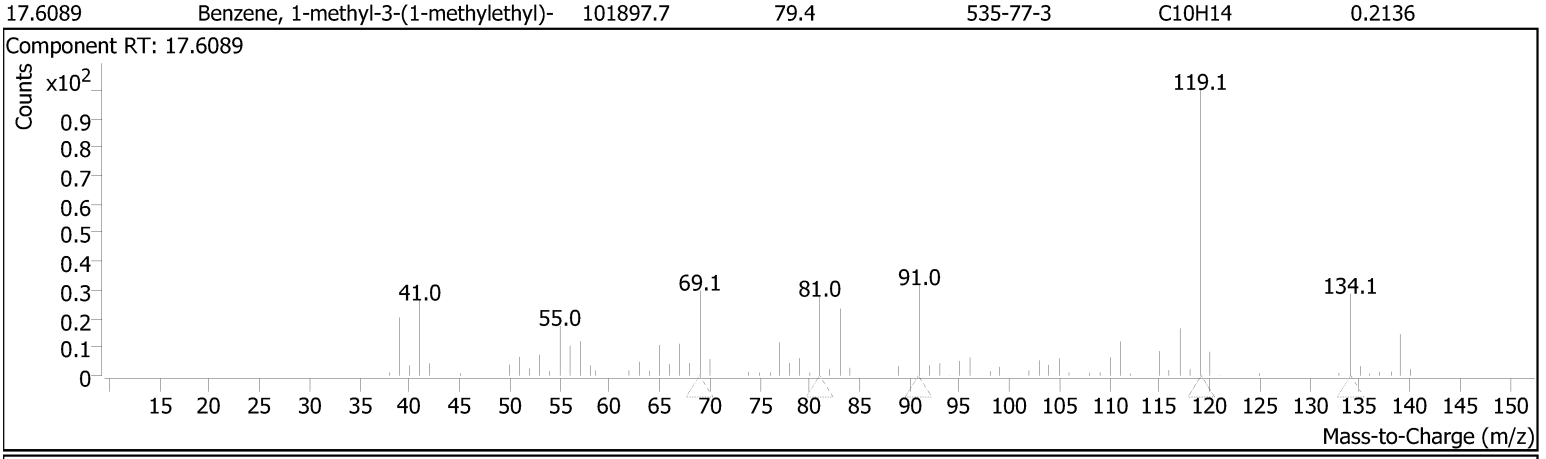



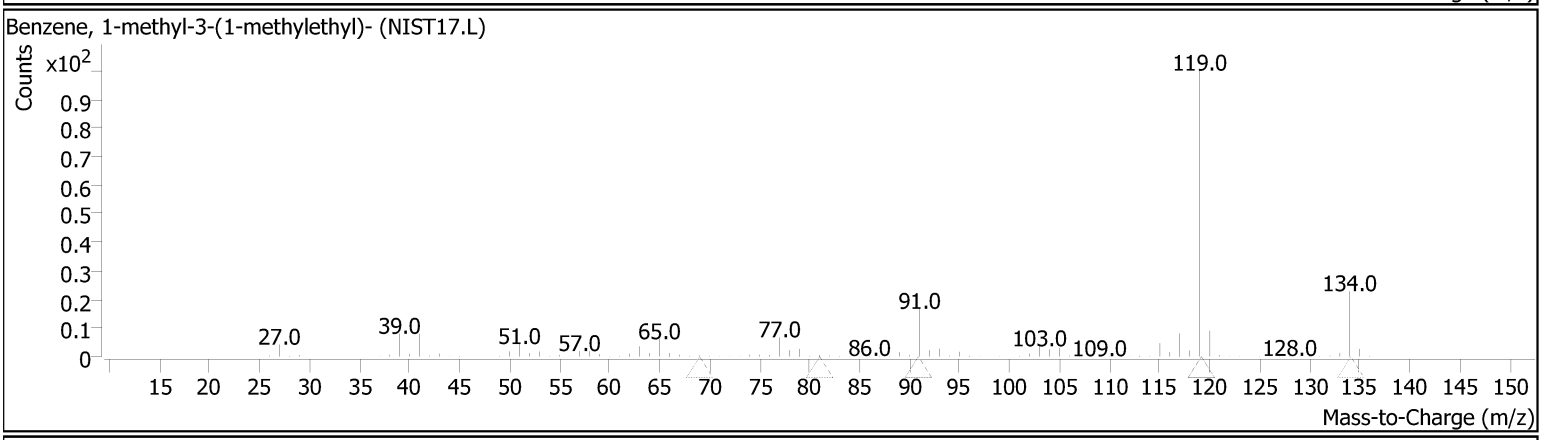



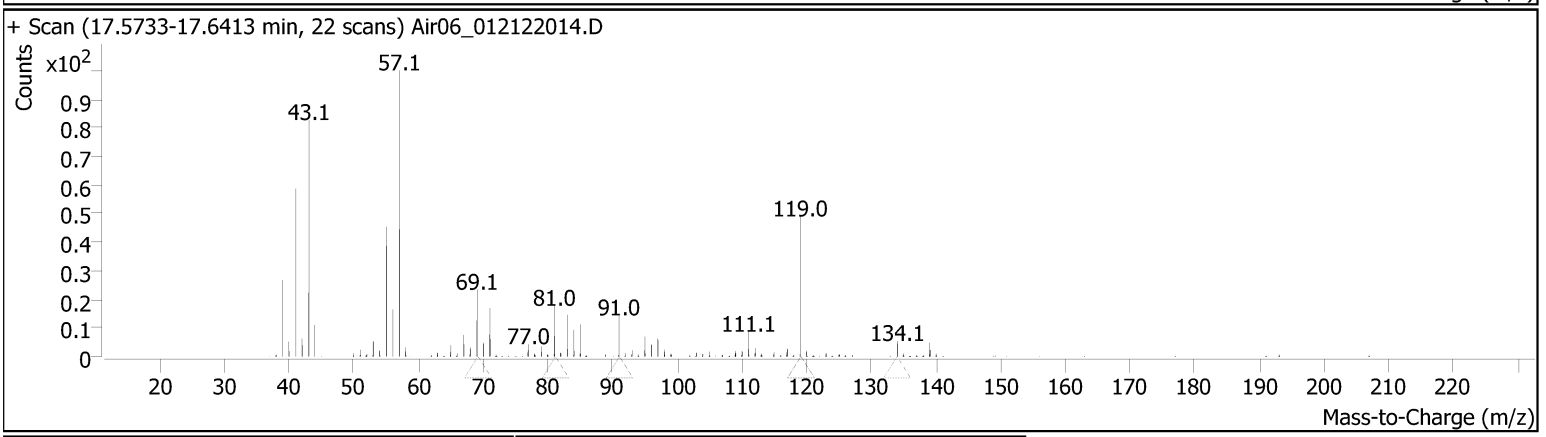



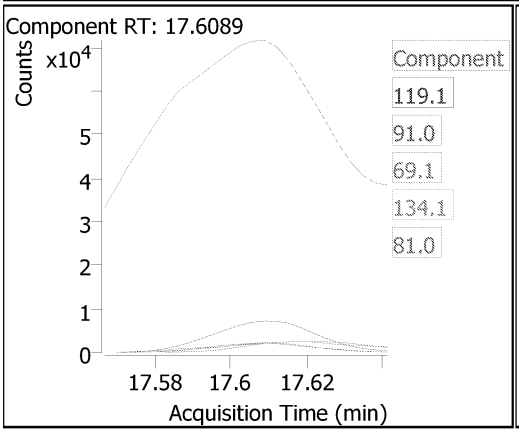



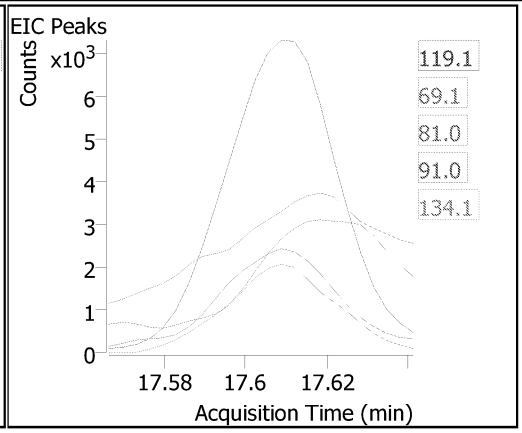
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6089 | Benzene, 1-methyl-3-(1-methylethyl)- | 101897.7 | 79.4 | 535-77-3 | C10H14 | 0.2136 |

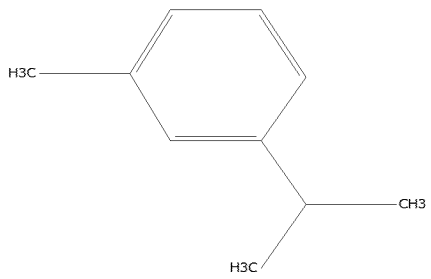


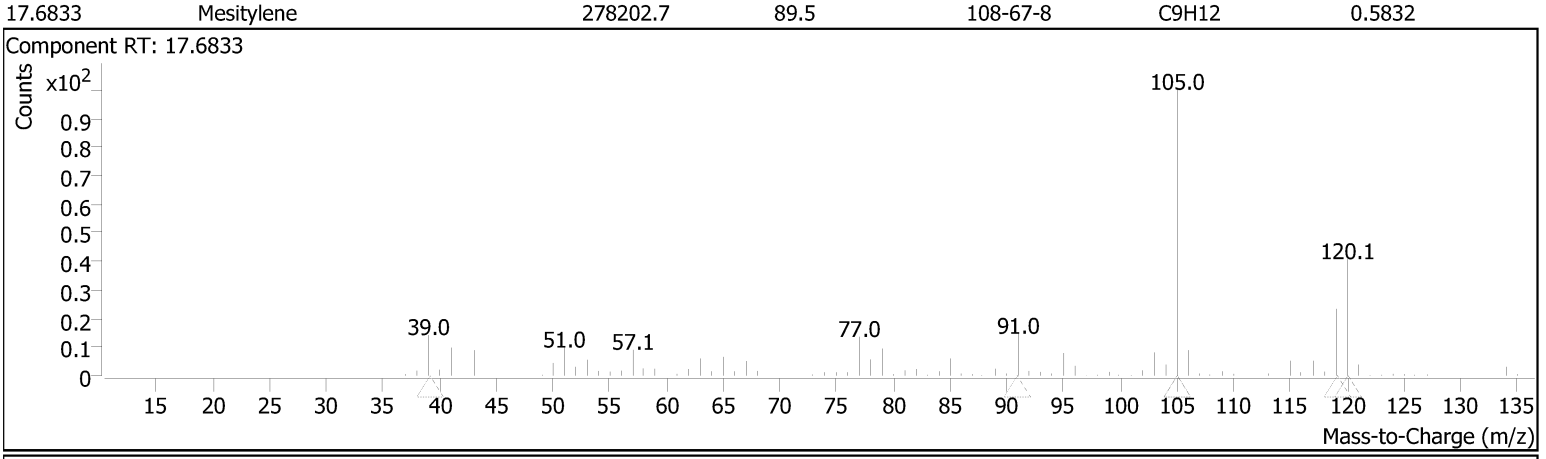



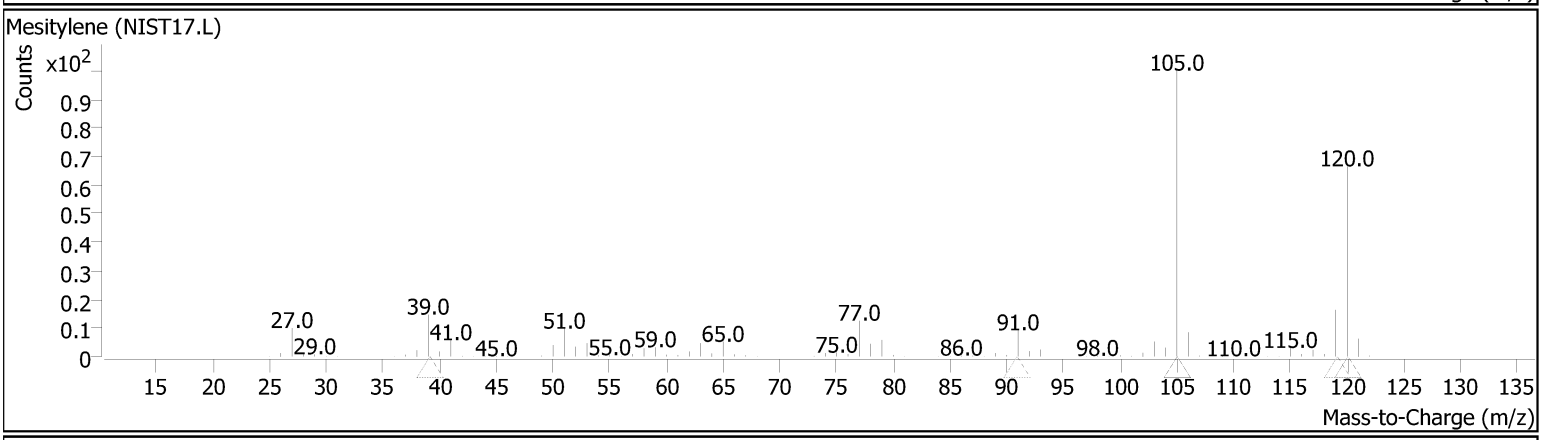



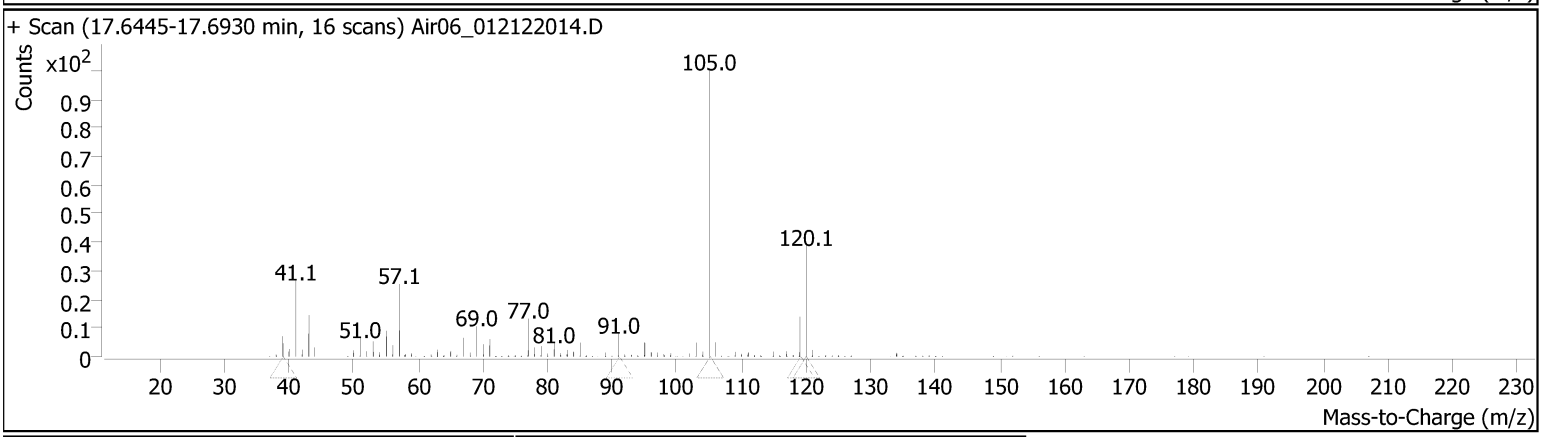



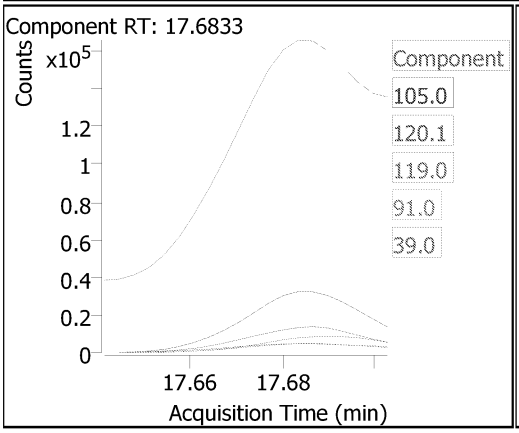



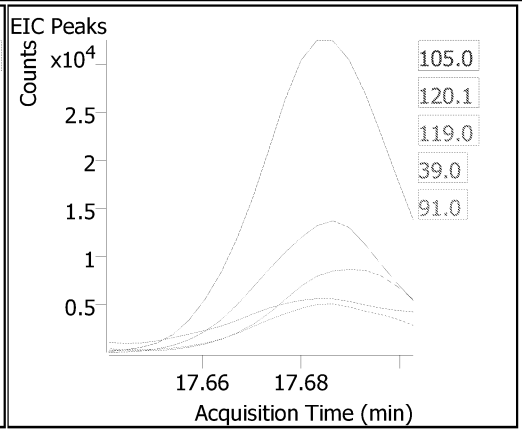
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6833 | Mesitylene | 278202.7 | 89.5 | 108-67-8 | C9H12 | 0.5832 |

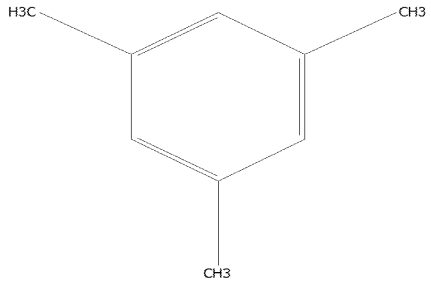


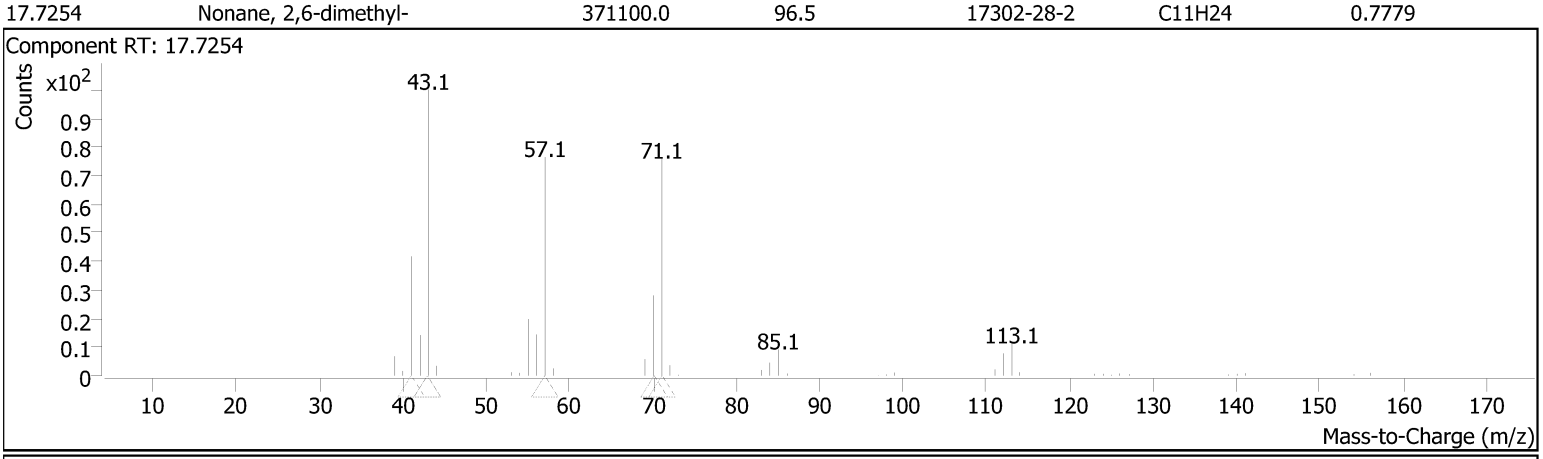



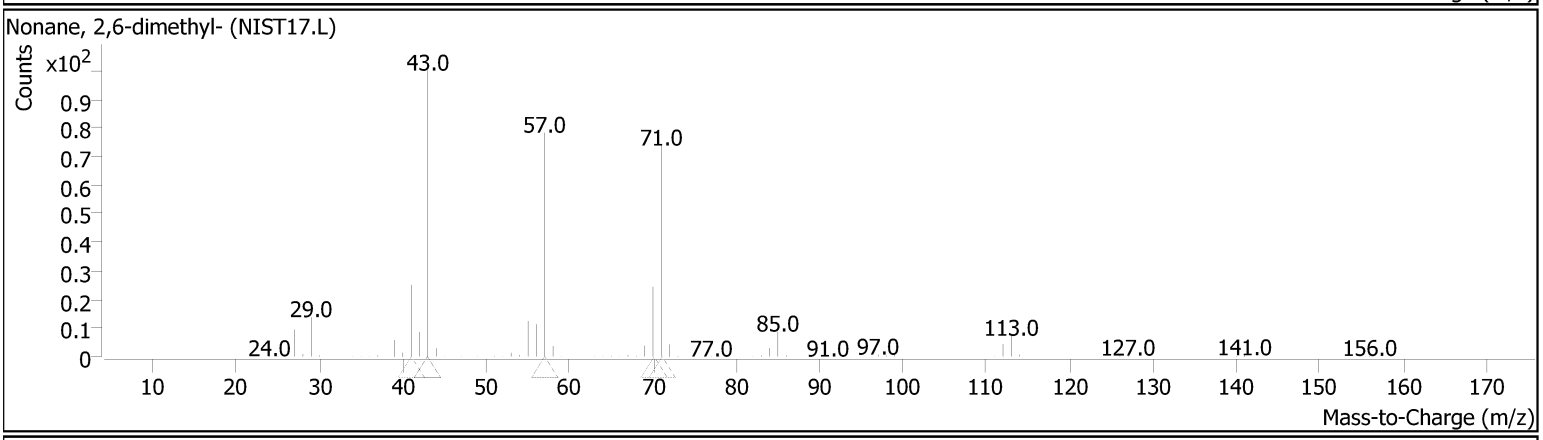



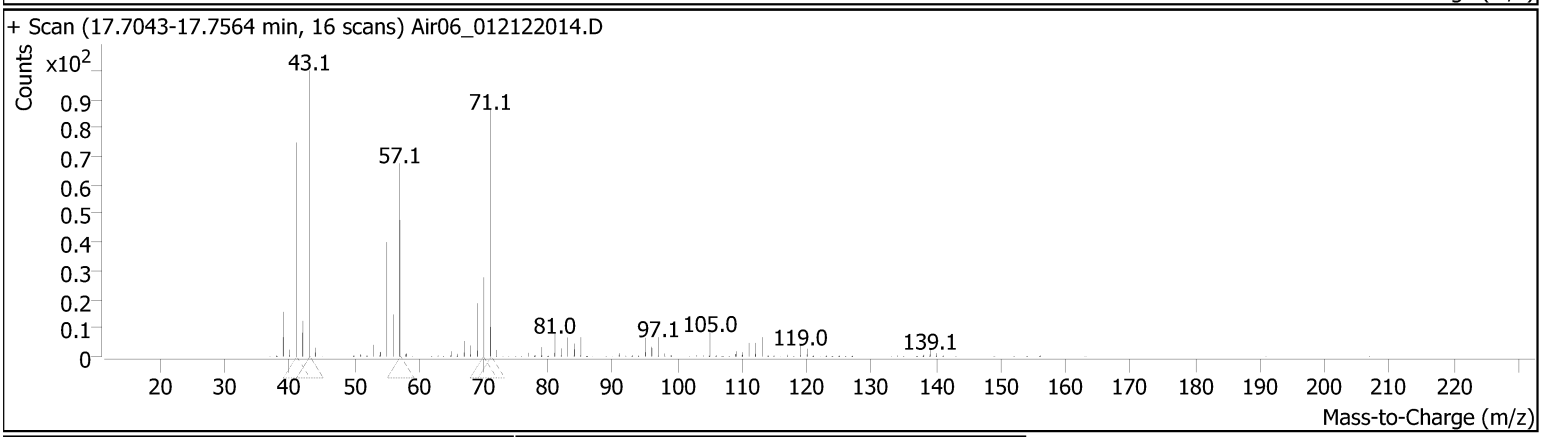



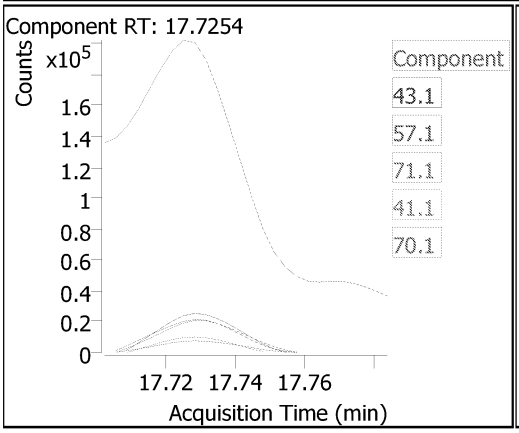



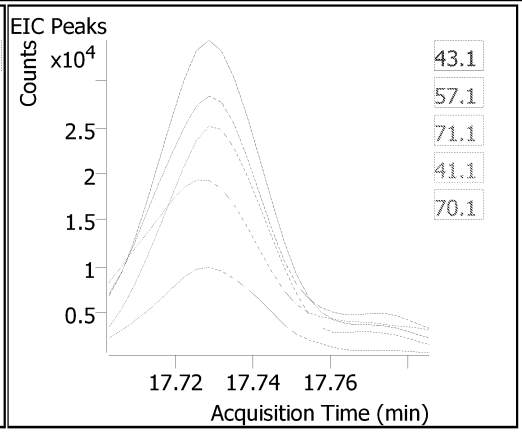
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.7254 | Nonane, 2,6-dimethyl- | 371100.0 | 96.5 | 17302-28-2 | C11H24 | 0.7779 |

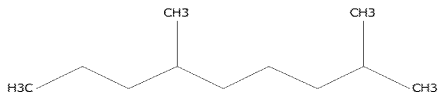


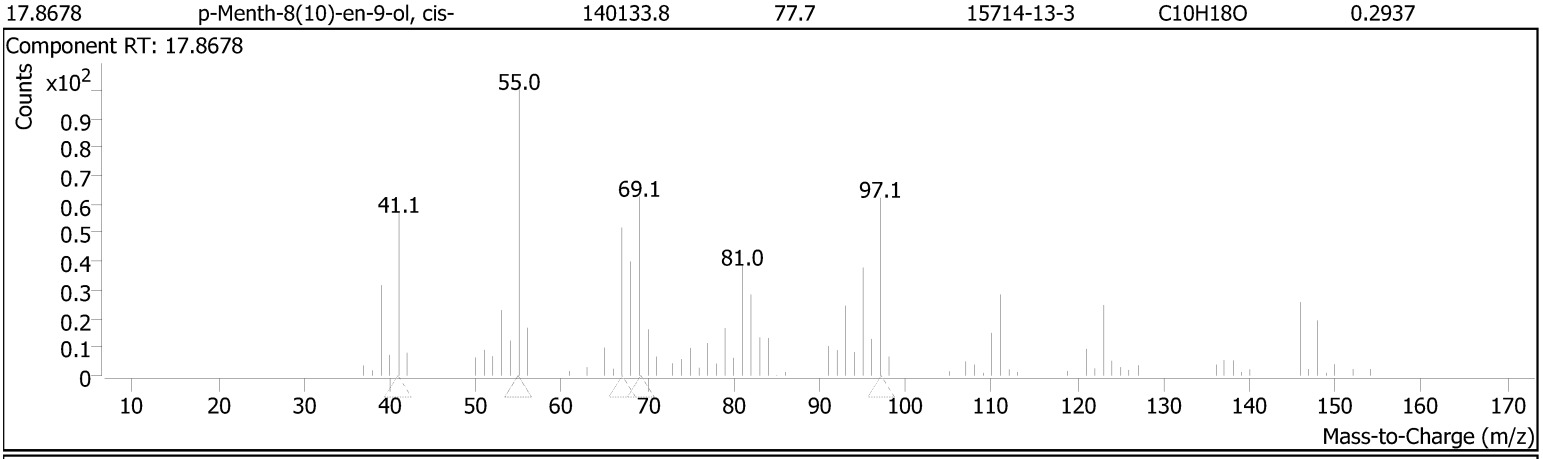



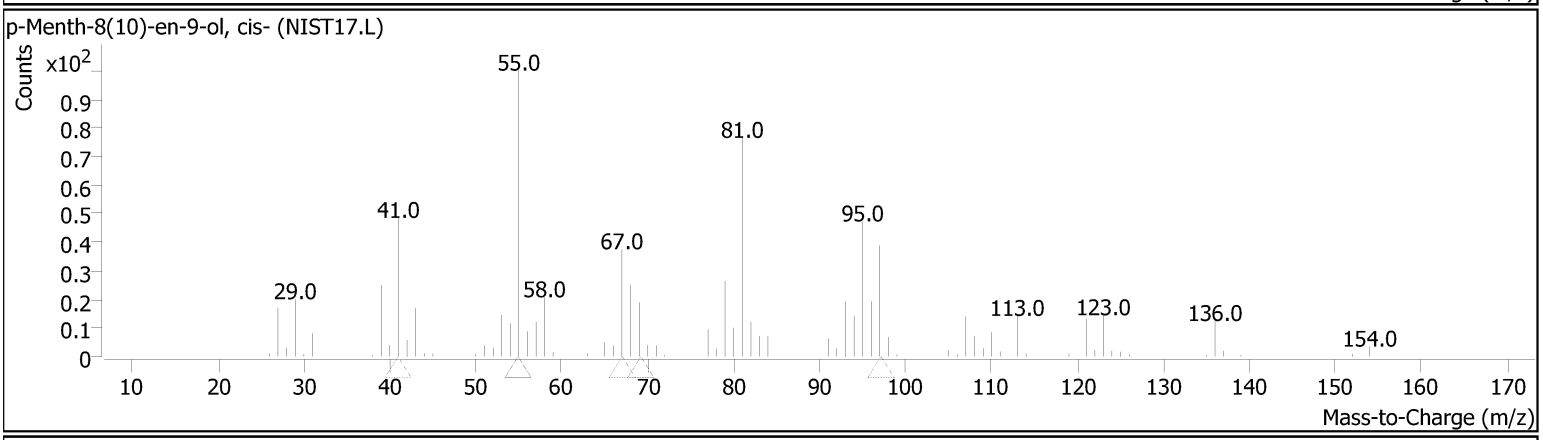



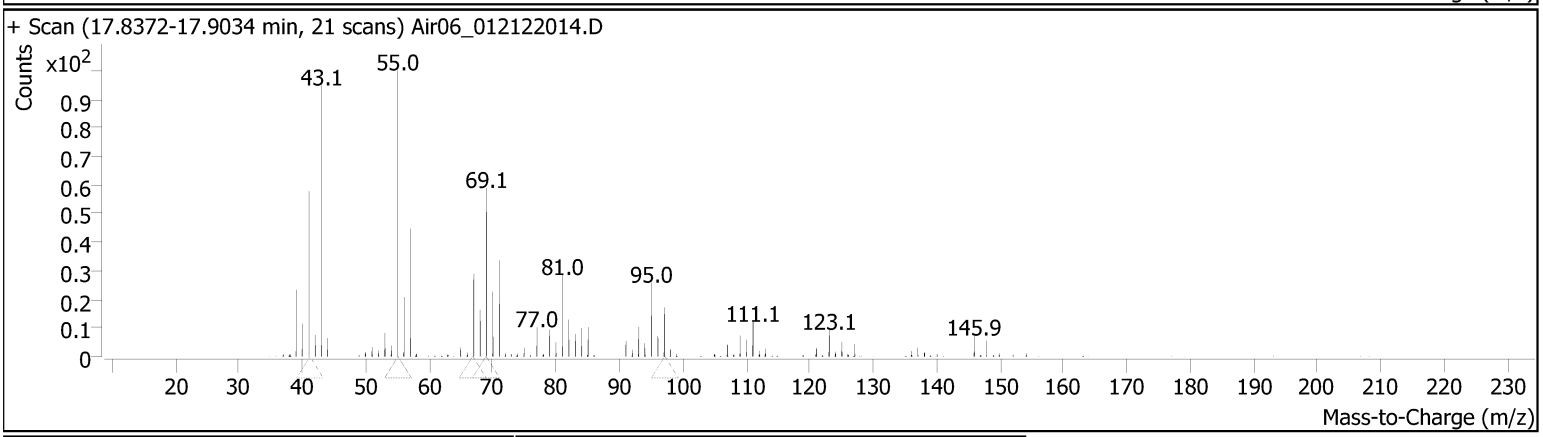



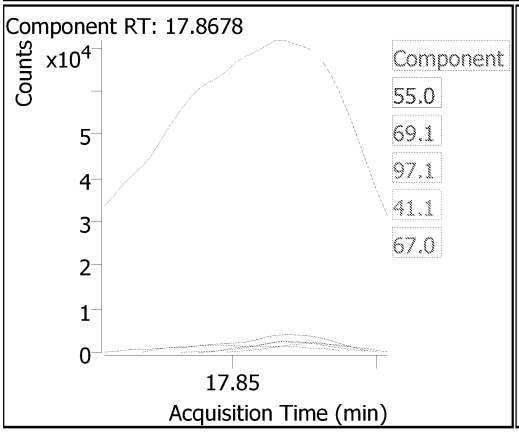



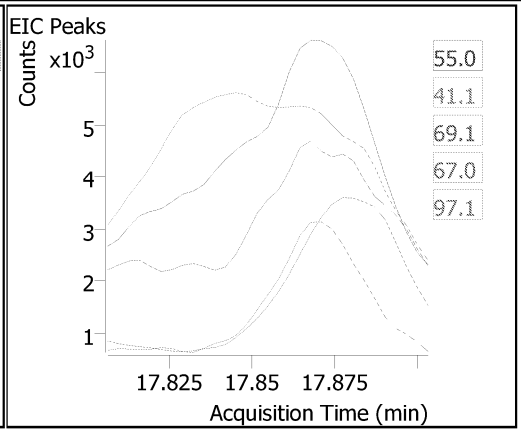
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.8678 | p-Menth-8(10)-en-9-ol, cis- | 140133.8 | 77.7 | 15714-13-3 | C10H18O | 0.2937 |

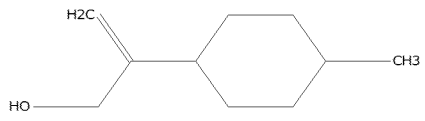


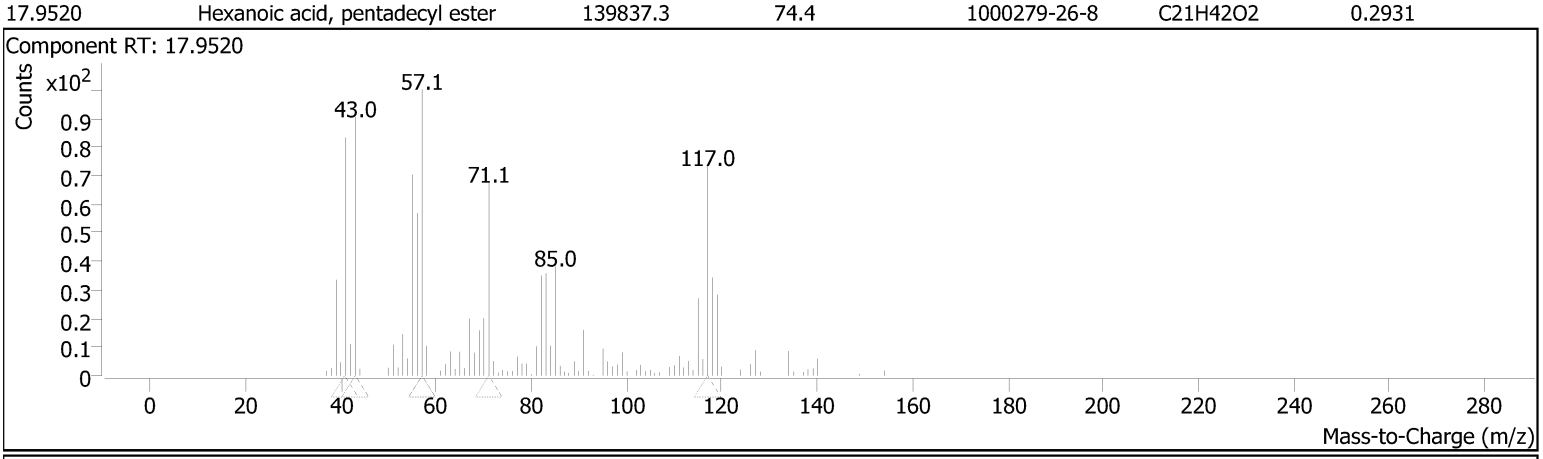



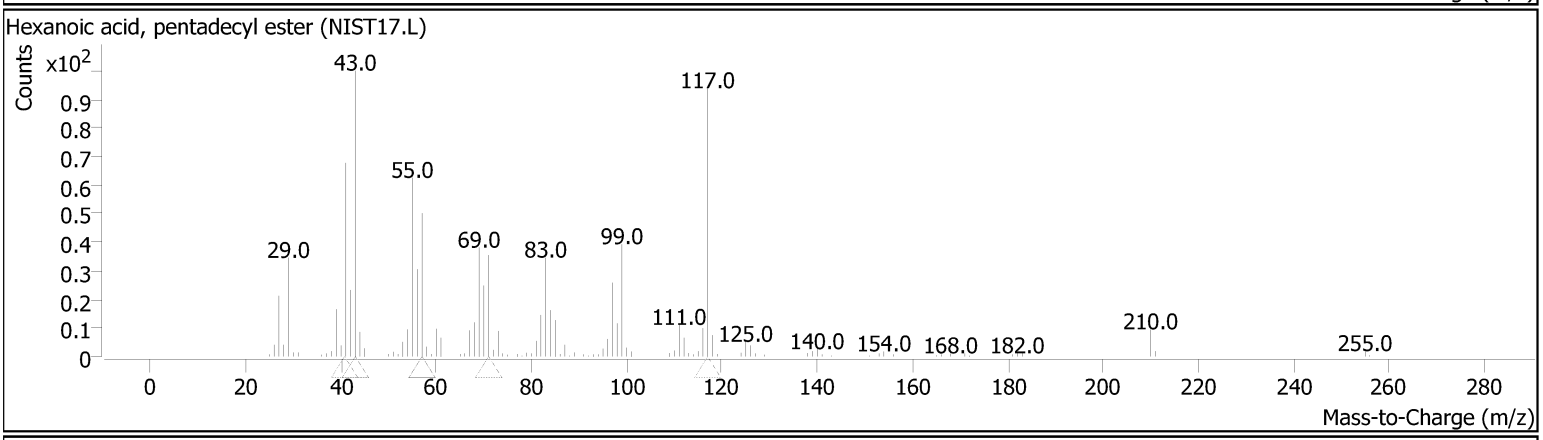



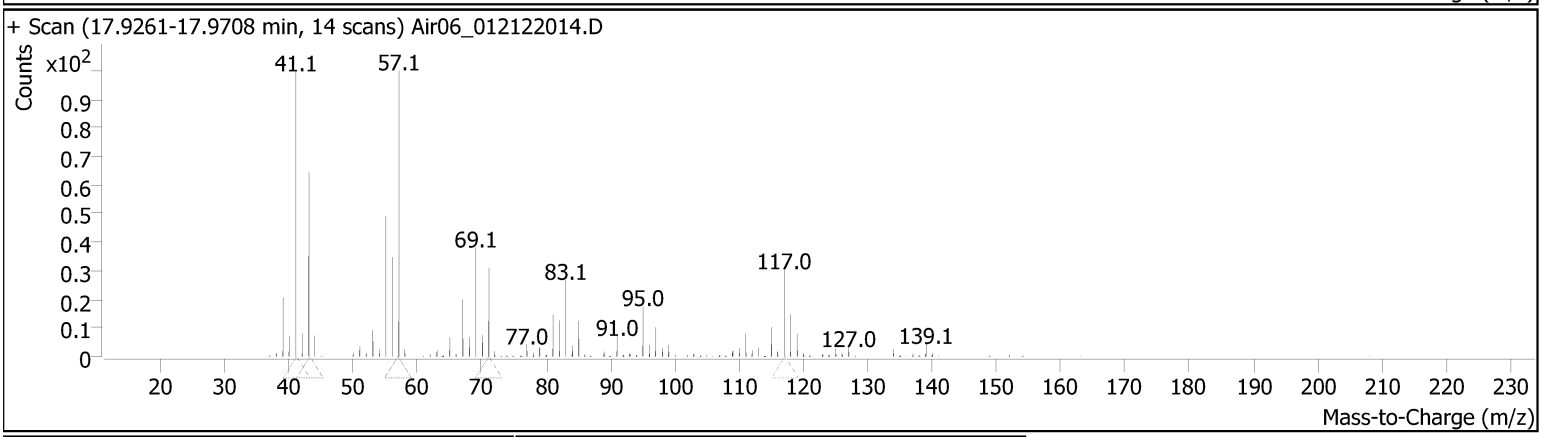



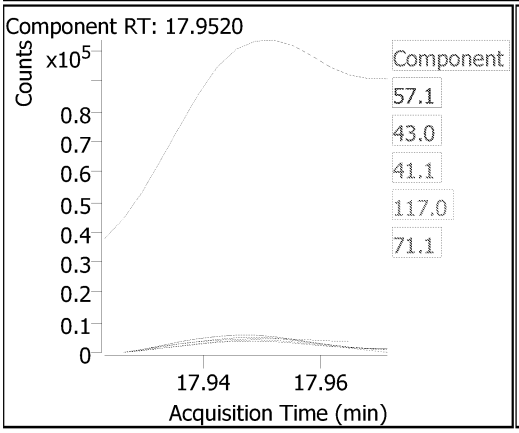



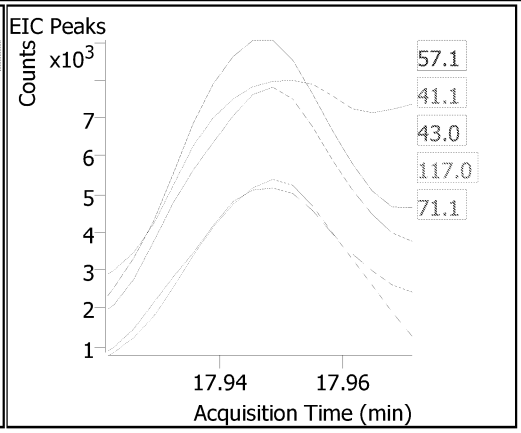
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.9520 | Hexanoic acid, pentadecyl ester | 139837.3 | 74.4 | 1000279-26-8 | C21H42O2 | 0.2931 |

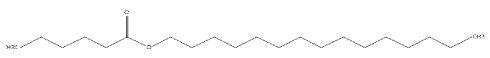


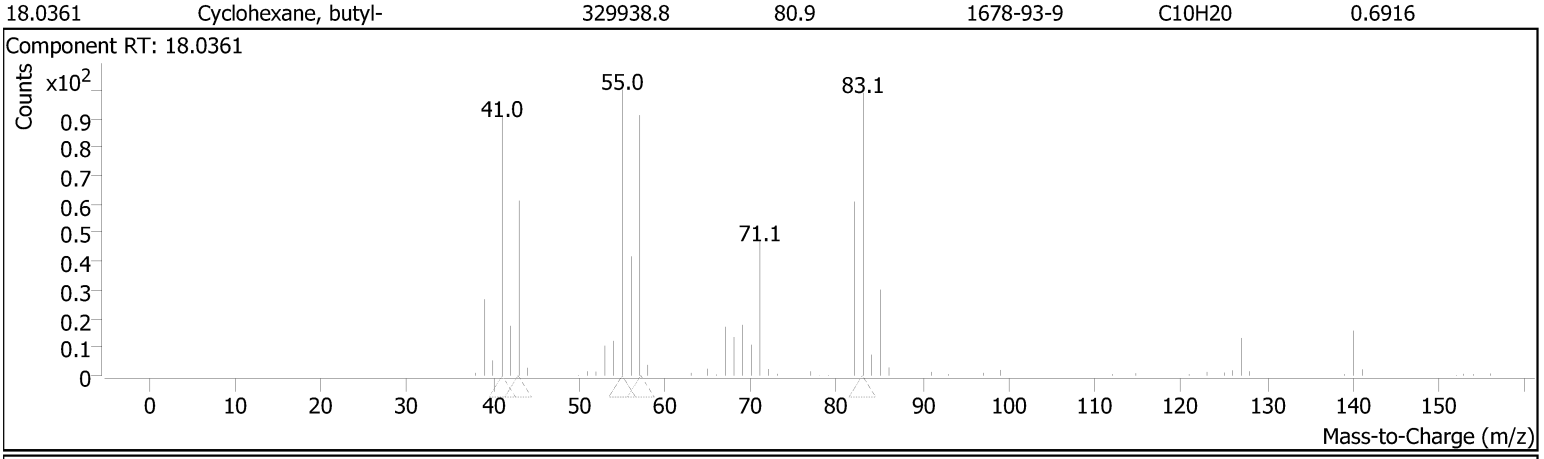



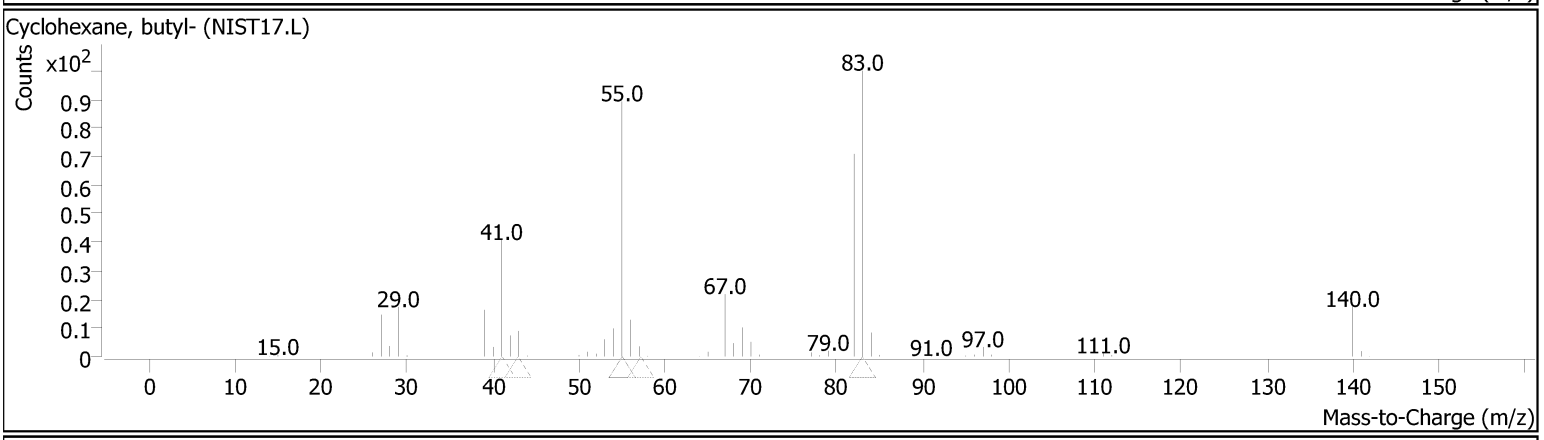



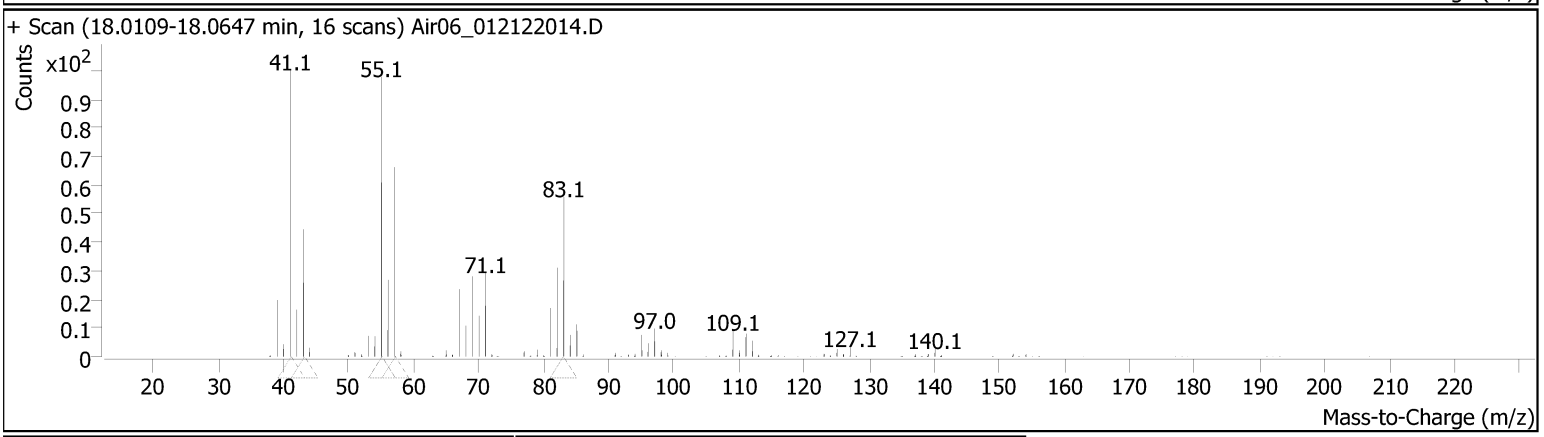



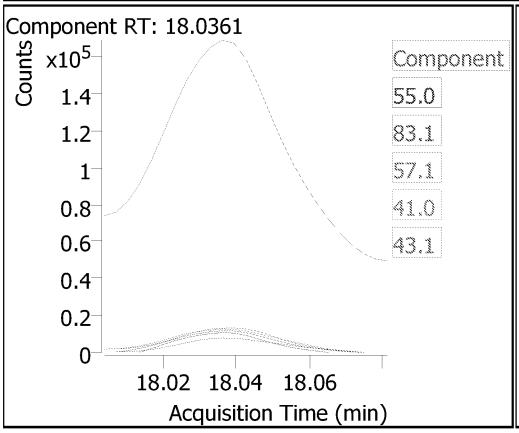



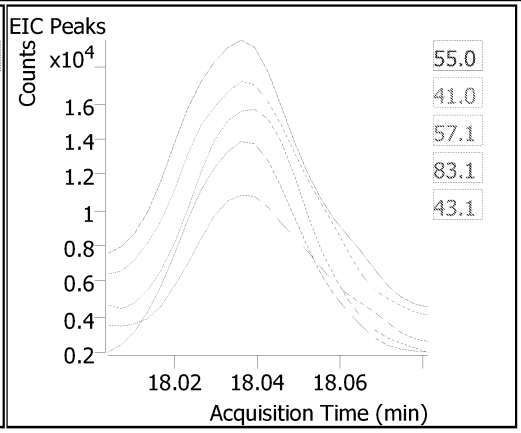
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.0361 | Cyclohexane, butyl- | 329938.8 | 80.9 | 1678-93-9 | C10H20 | 0.6916 |

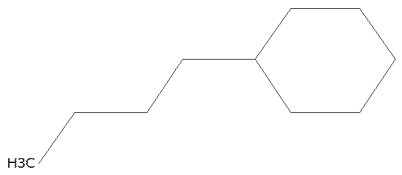


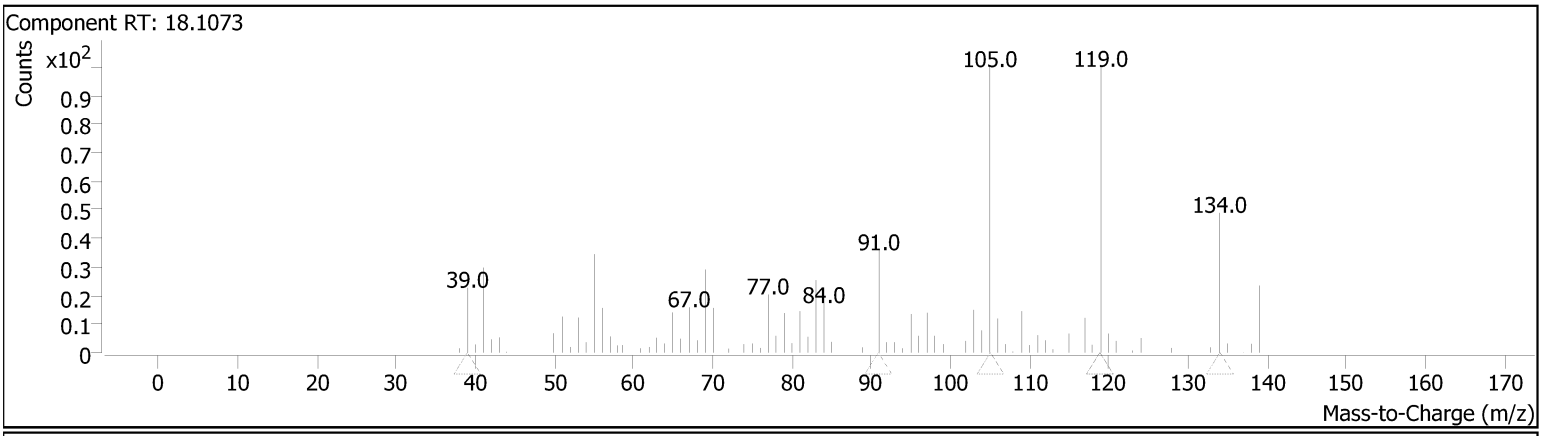



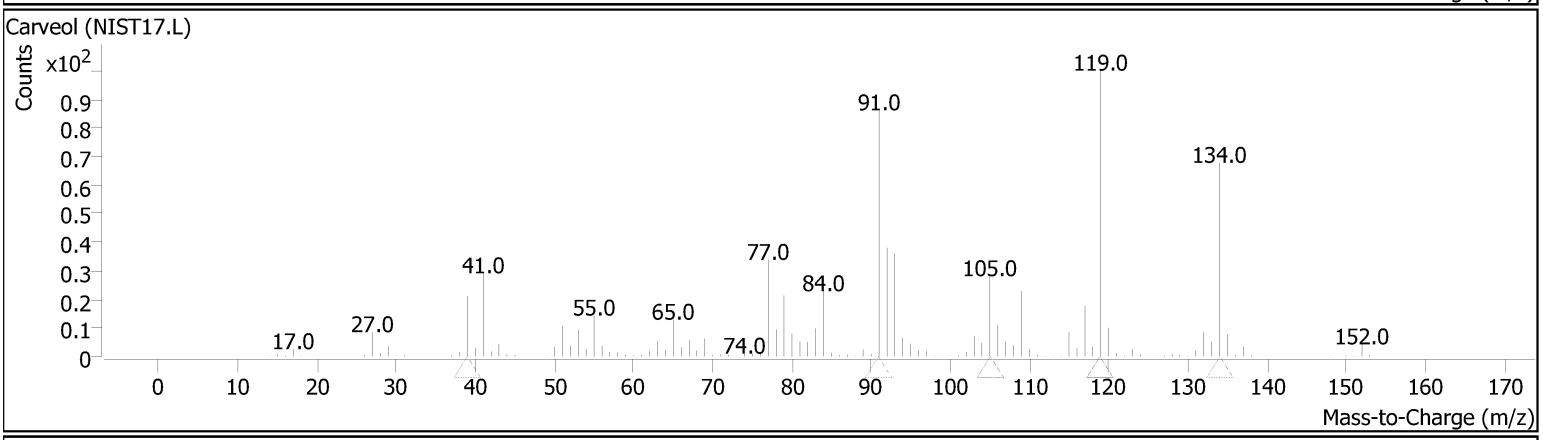



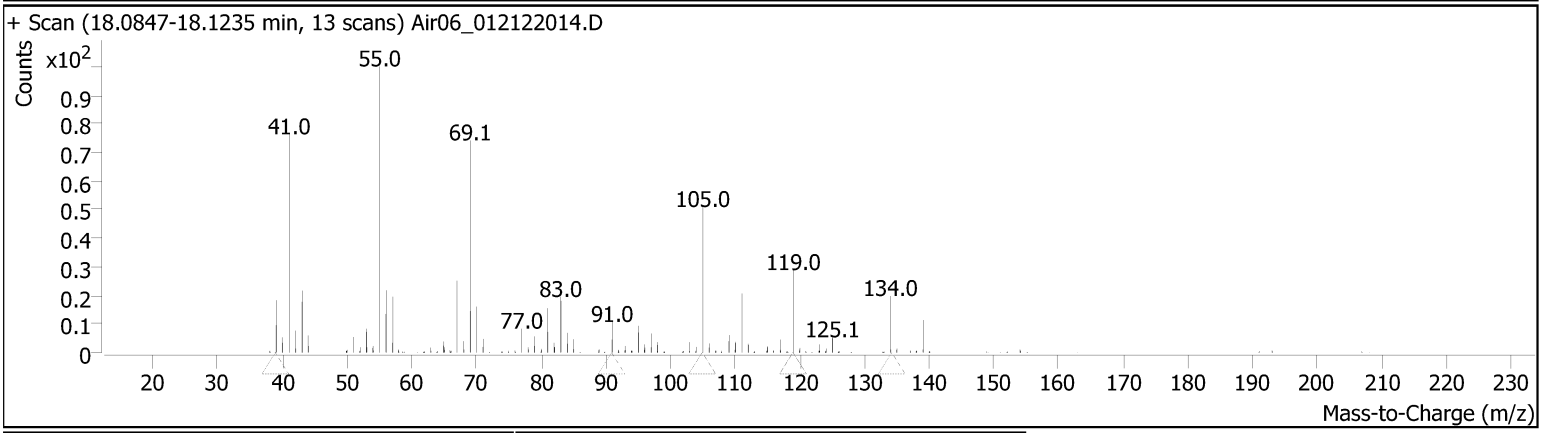



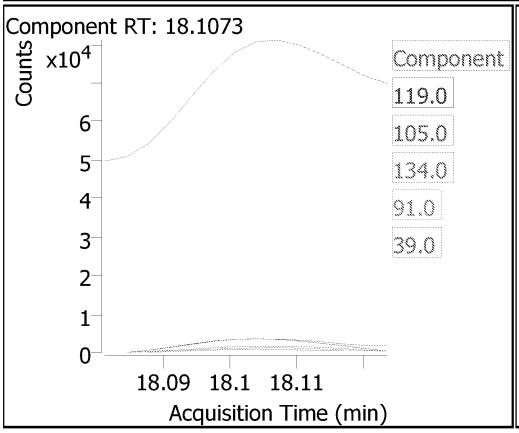



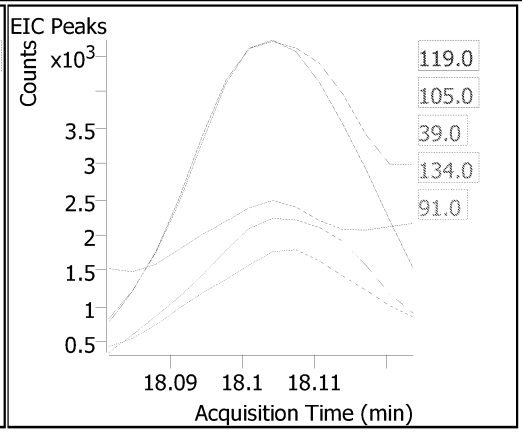
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1073 | Carveol | 79946.1 | 78.9 | 99-48-9 | C10H16O | 0.1676 |

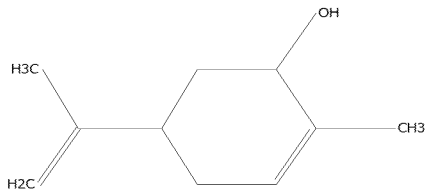


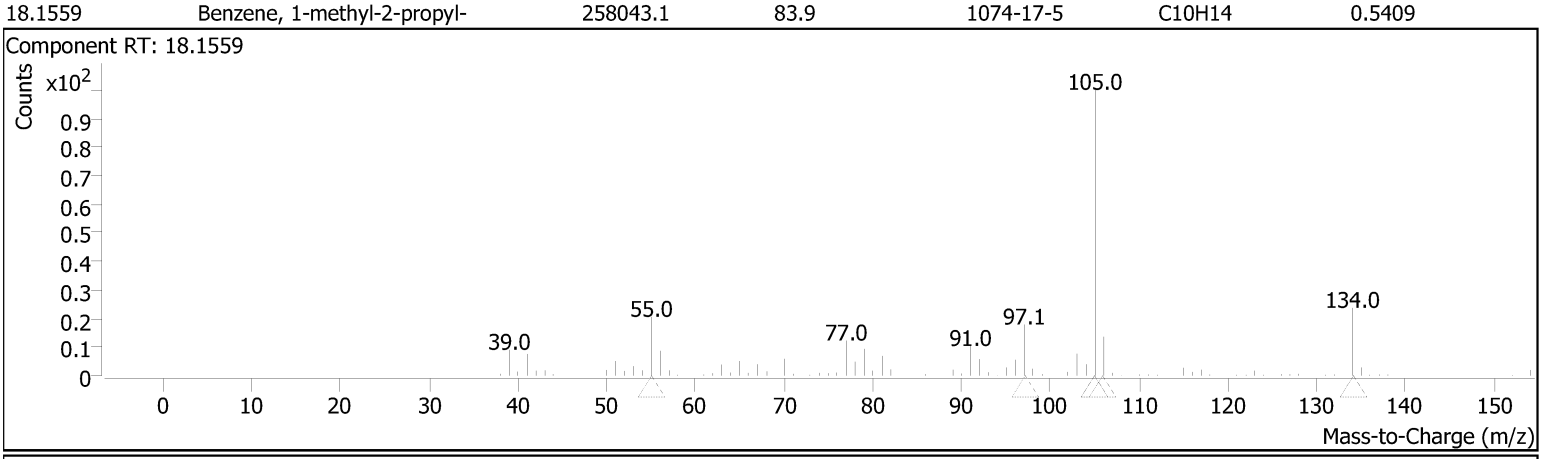



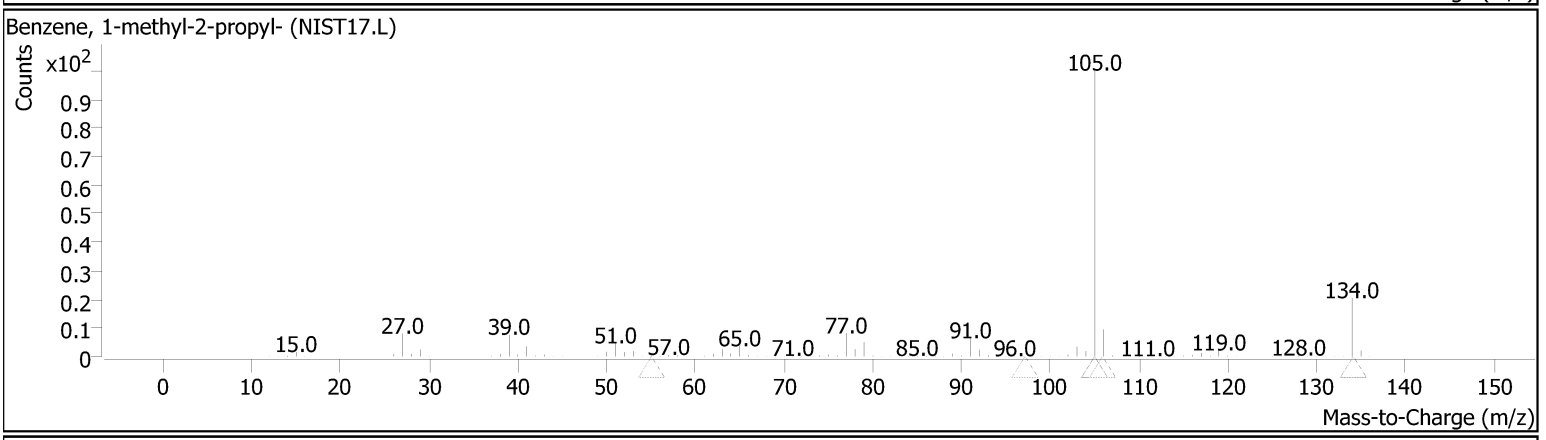



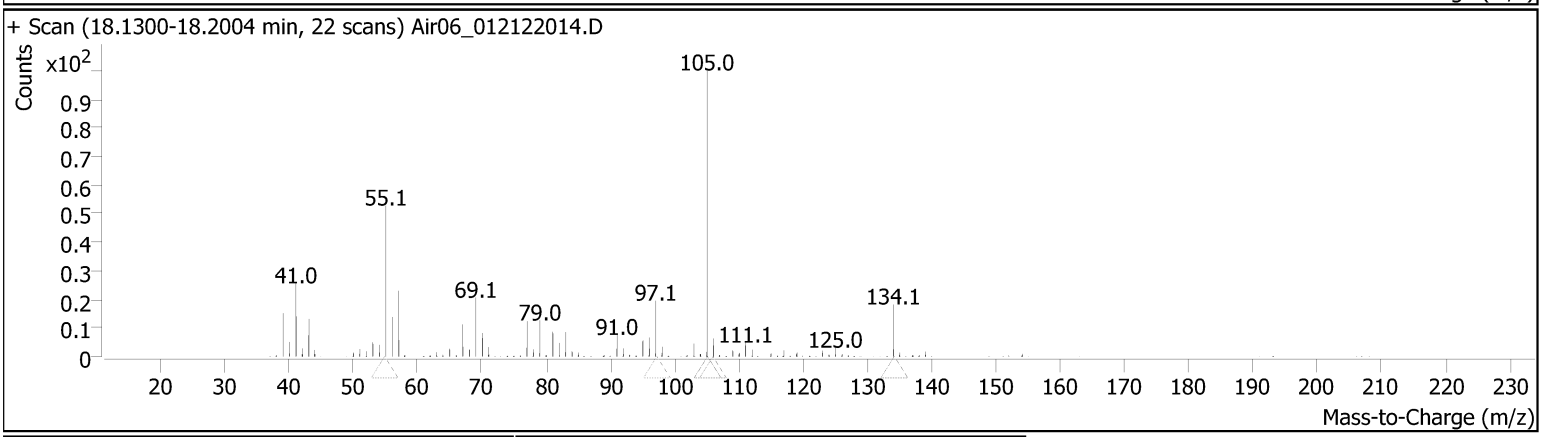



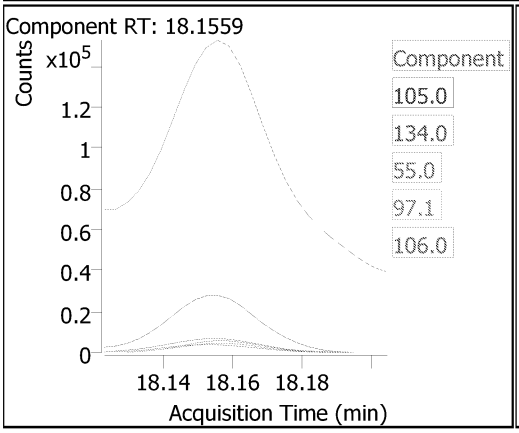



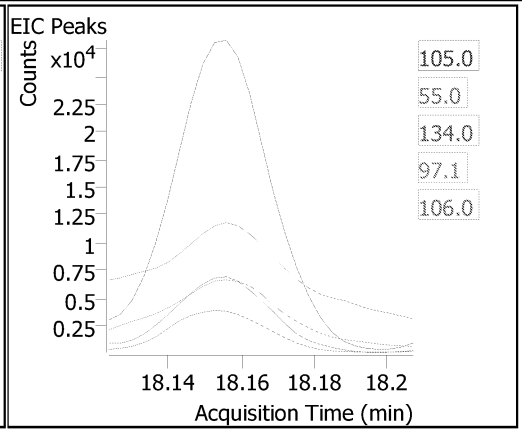
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1559 | Benzene, 1-methyl-2-propyl- | 258043.1 | 83.9 | 1074-17-5 | C10H14 | 0.5409 |

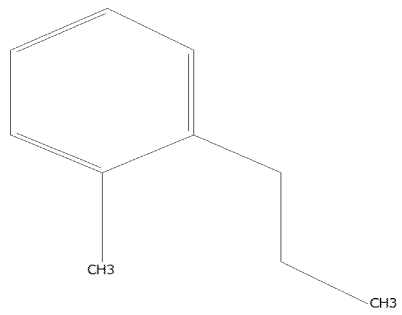


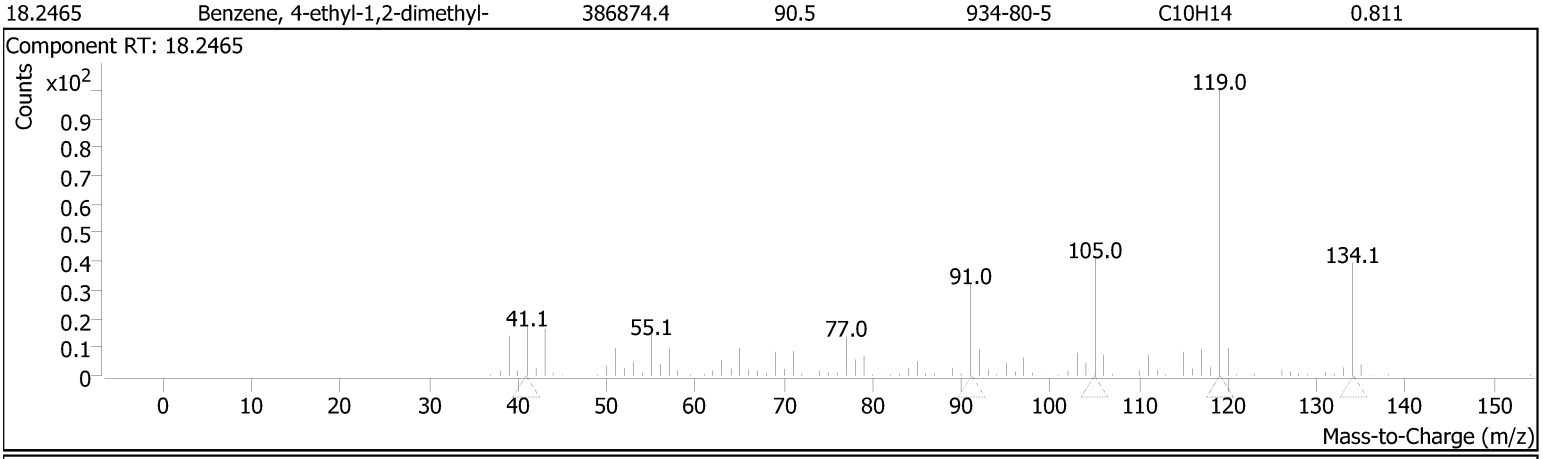



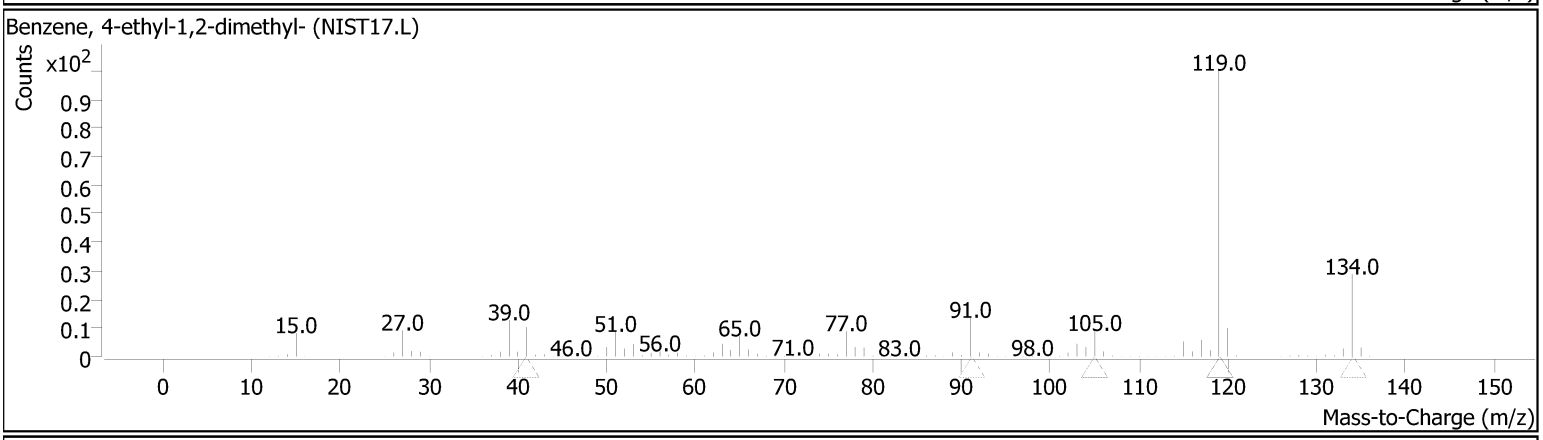



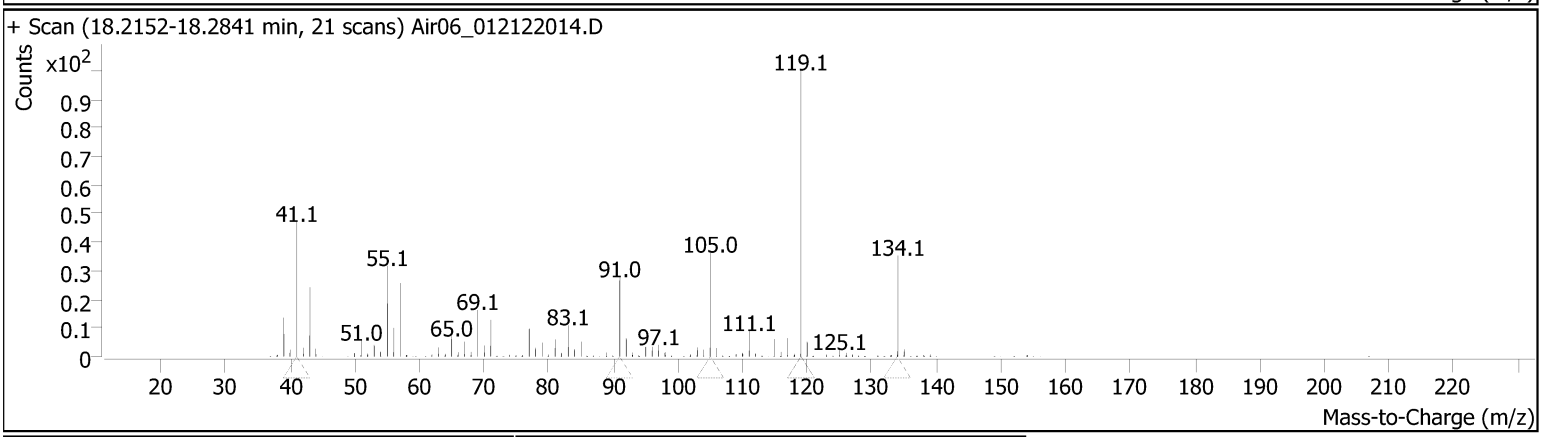



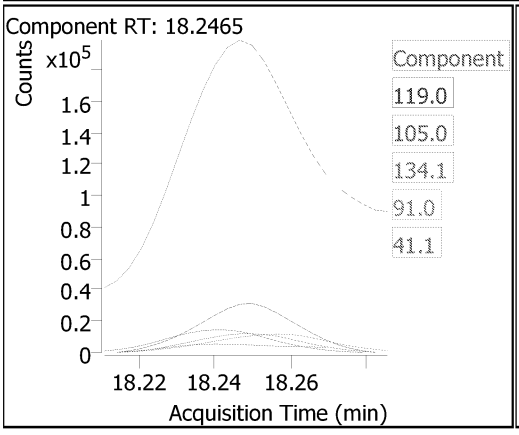



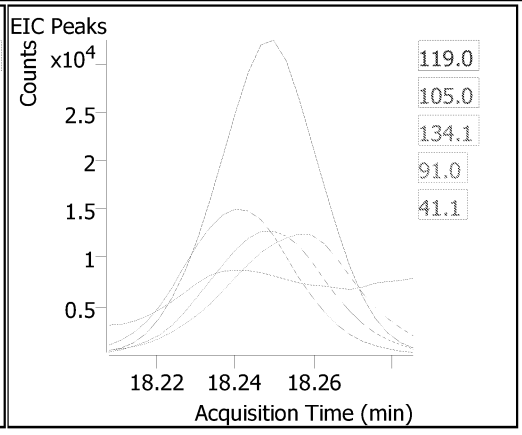
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.2465 | Benzene, 4-ethyl-1,2-dimethyl- | 386874.4 | 90.5 | 934-80-5 | C10H14 | 0.811 |

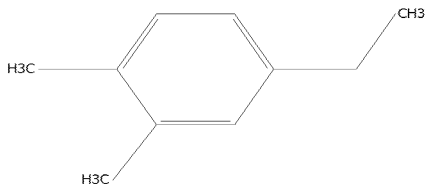


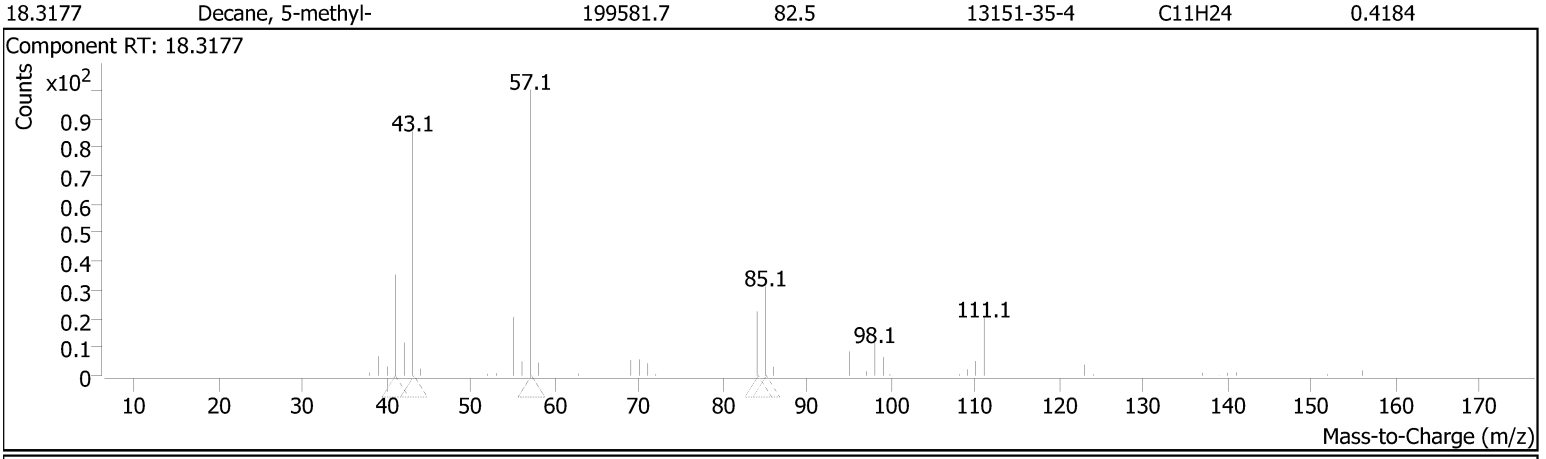



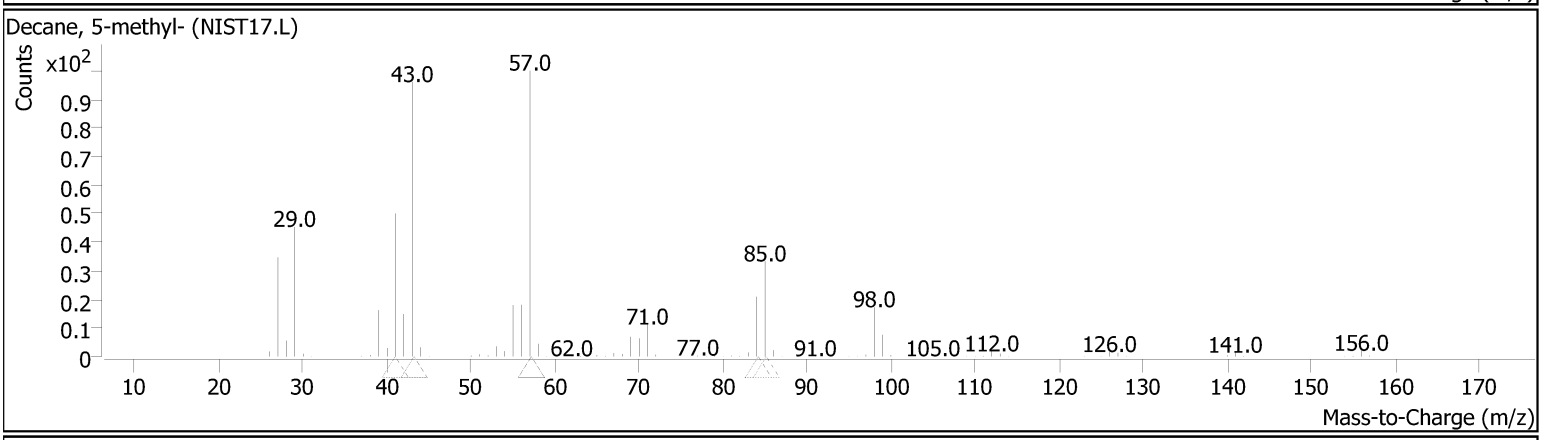



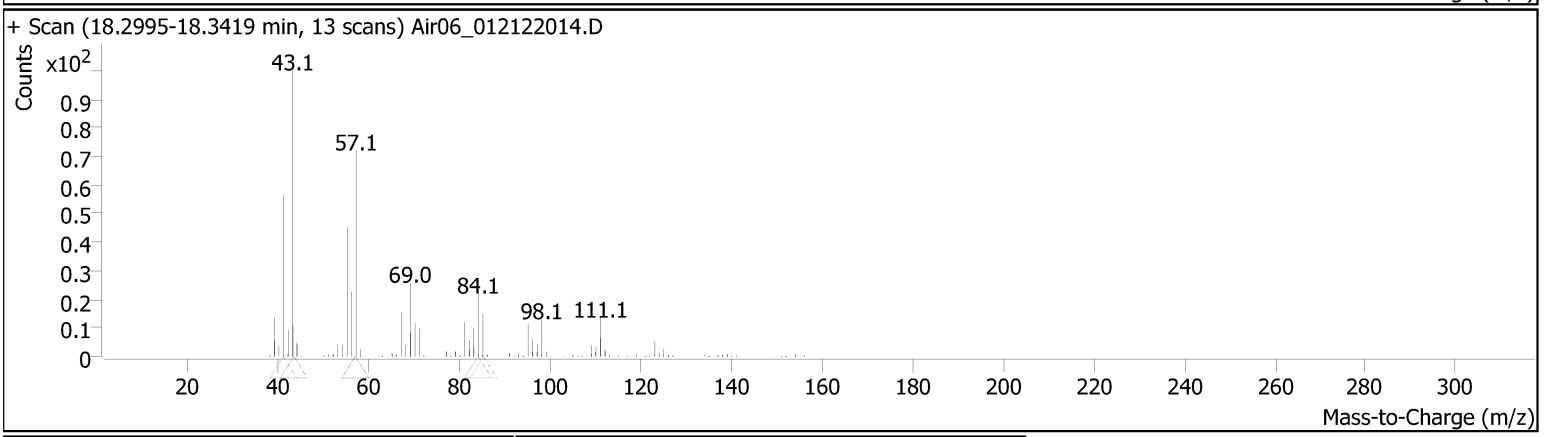



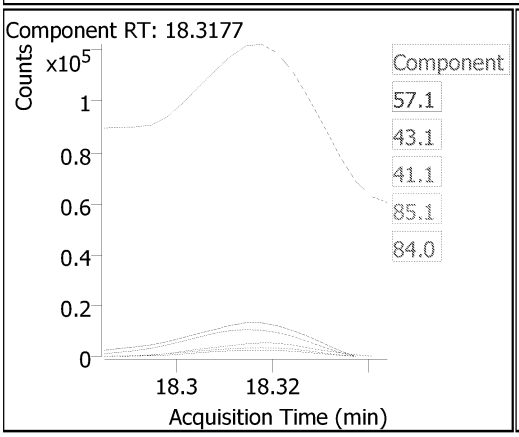



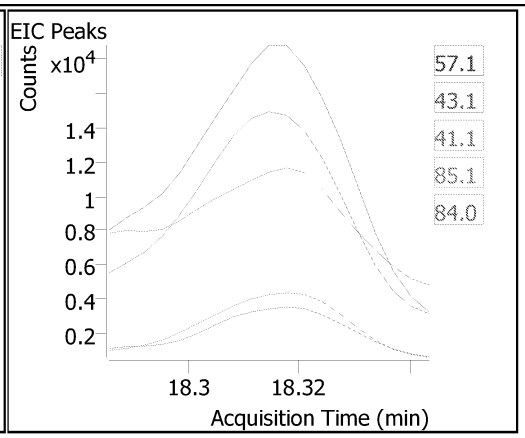
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3177 | Decane, 5-methyl- | 199581.7 | 82.5 | 13151-35-4 | C11H24 | 0.4184 |

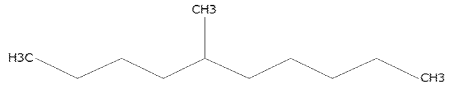


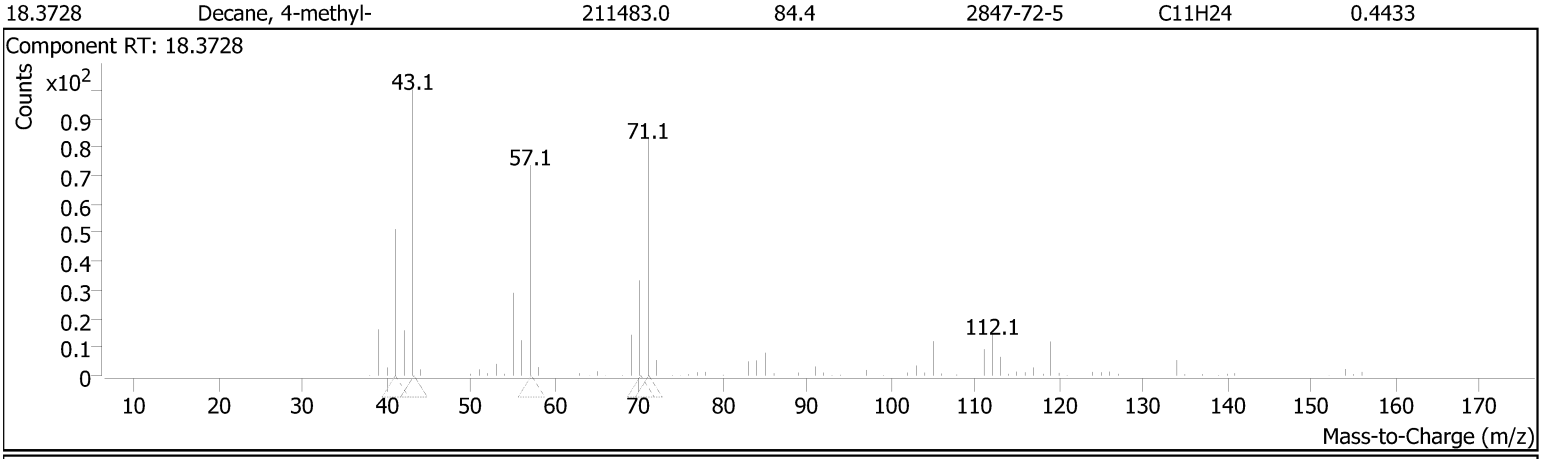



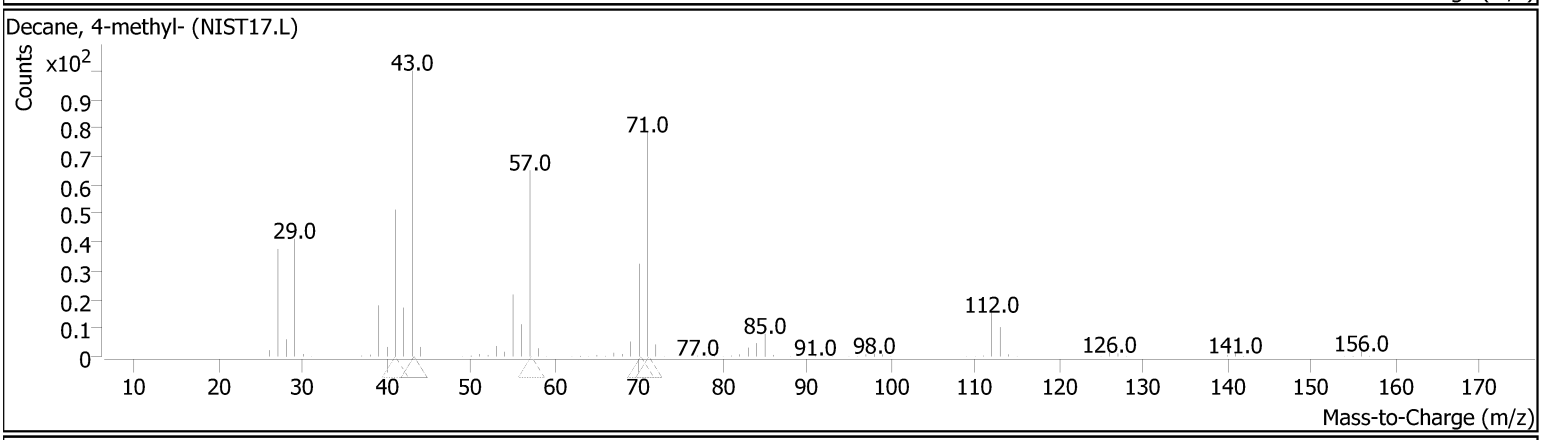



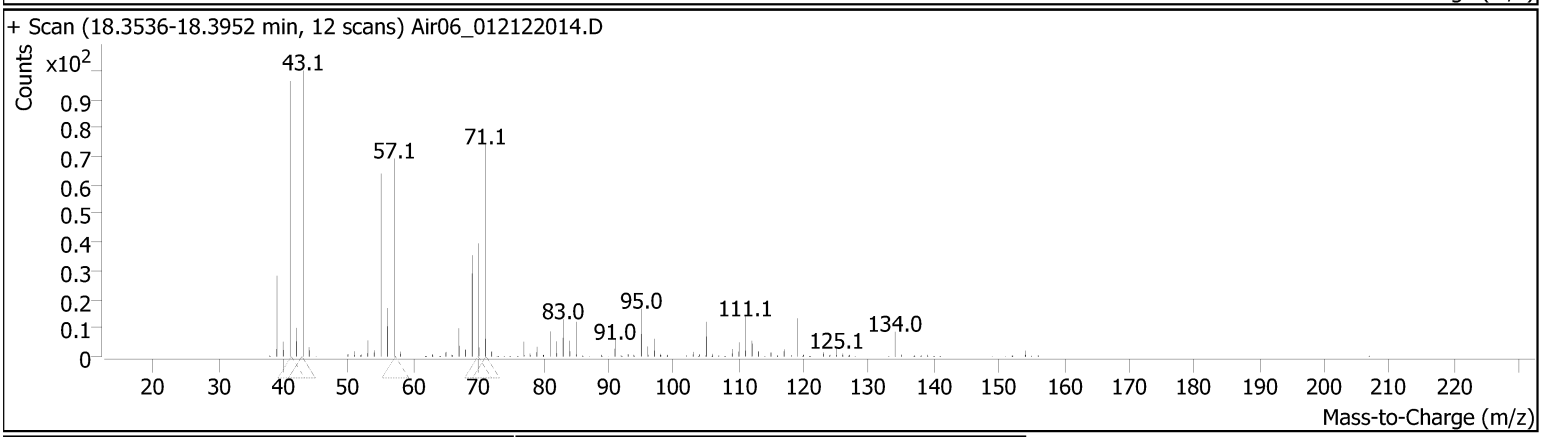



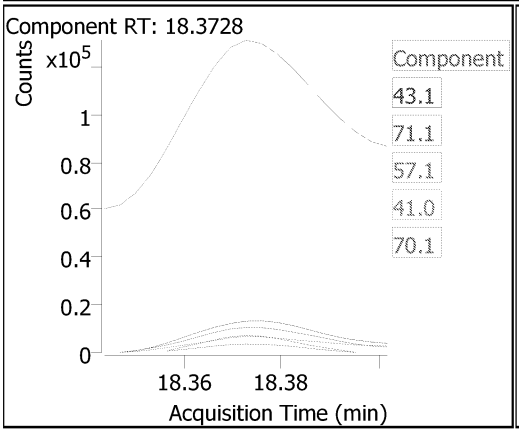



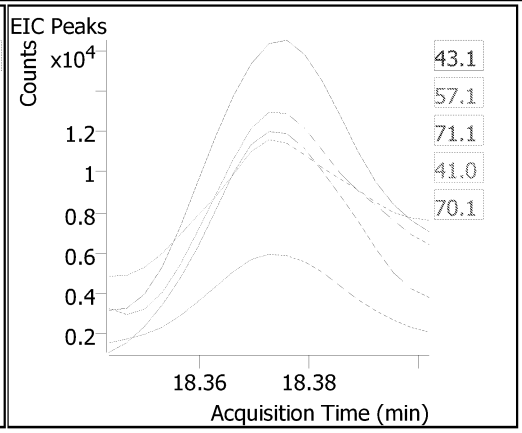
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3728 | Decane, 4-methyl- | 211483.0 | 84.4 | 2847-72-5 | C11H24 | 0.4433 |

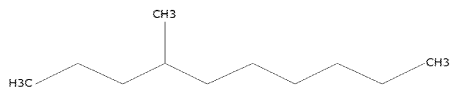


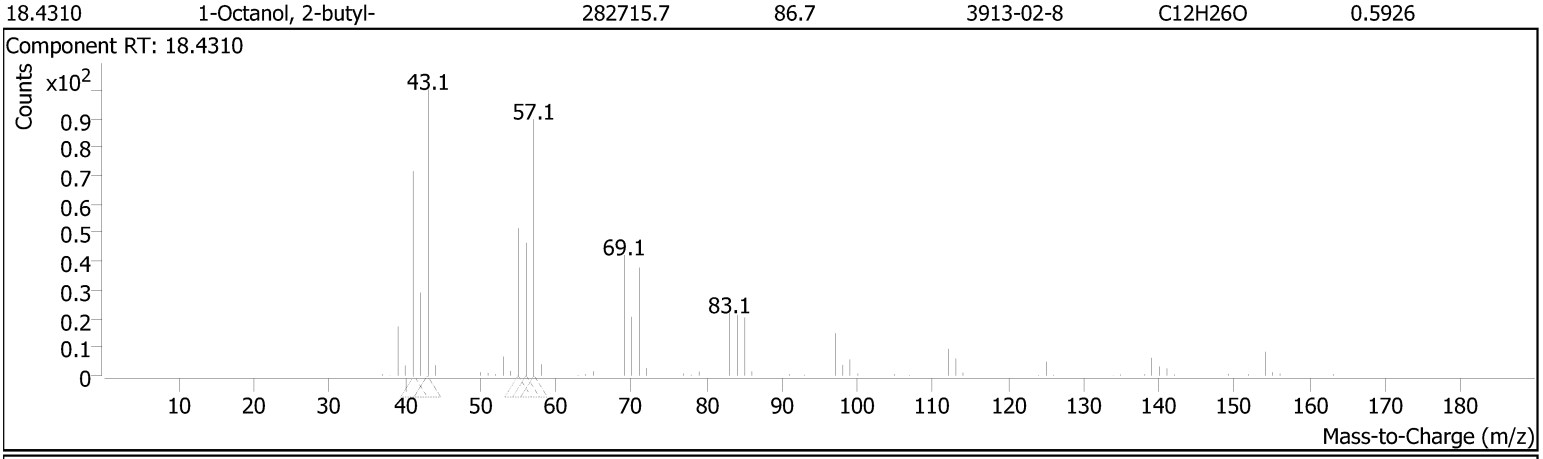



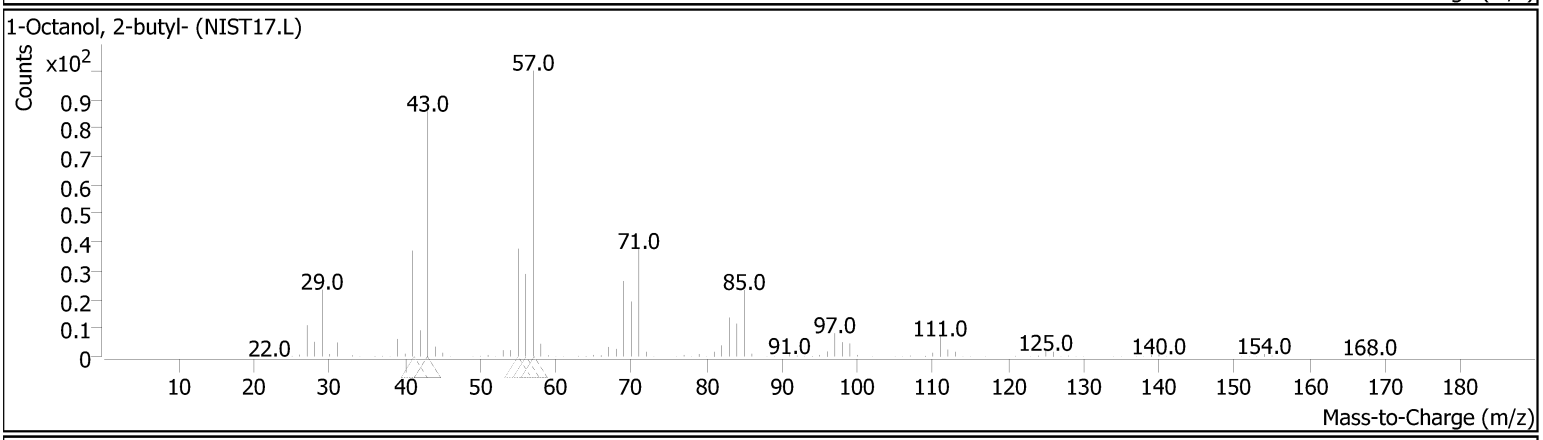



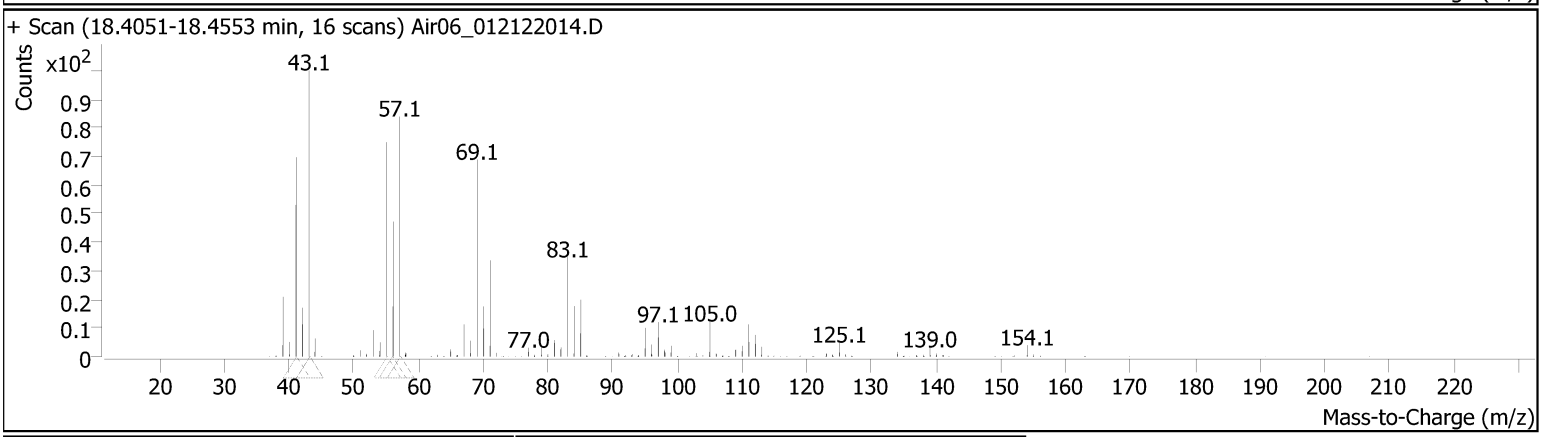



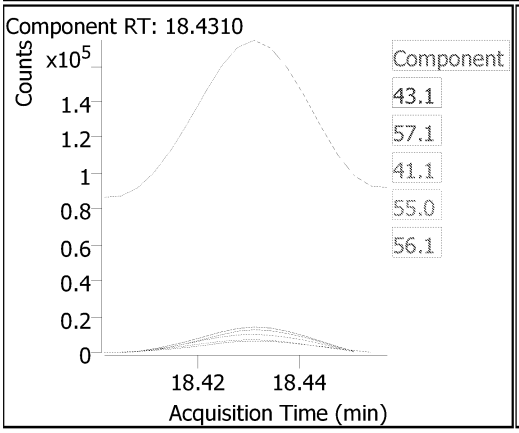



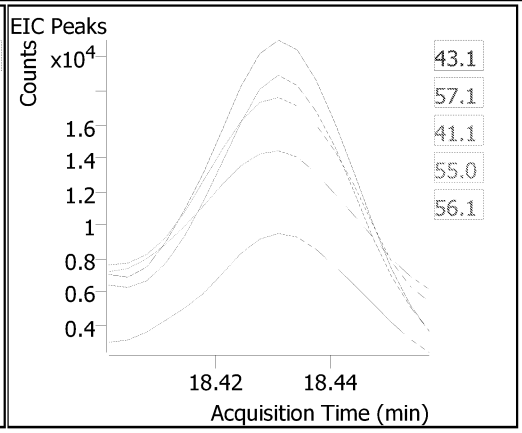
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4310 | 1-Octanol, 2-butyl- | 282715.7 | 86.7 | 3913-02-8 | C12H26O | 0.5926 |

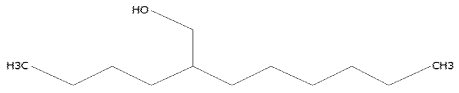


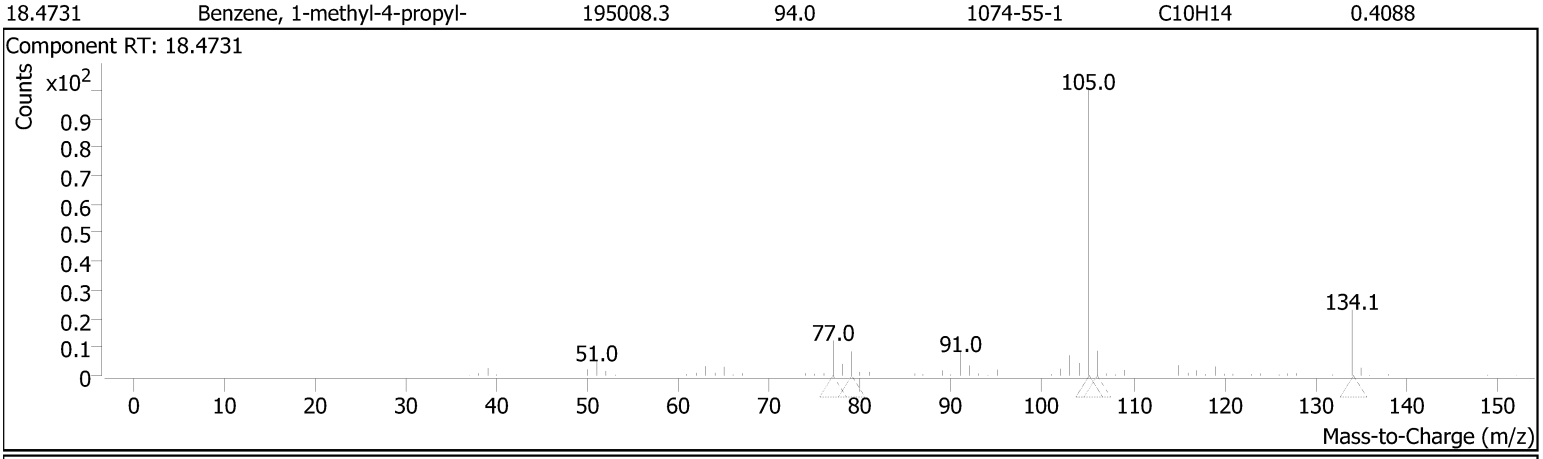



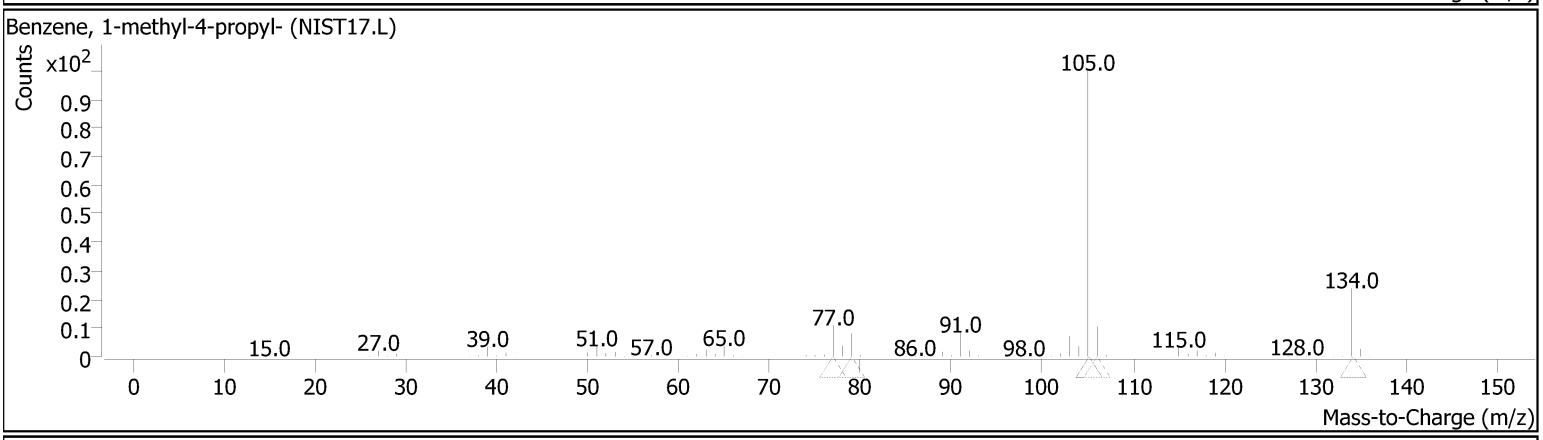



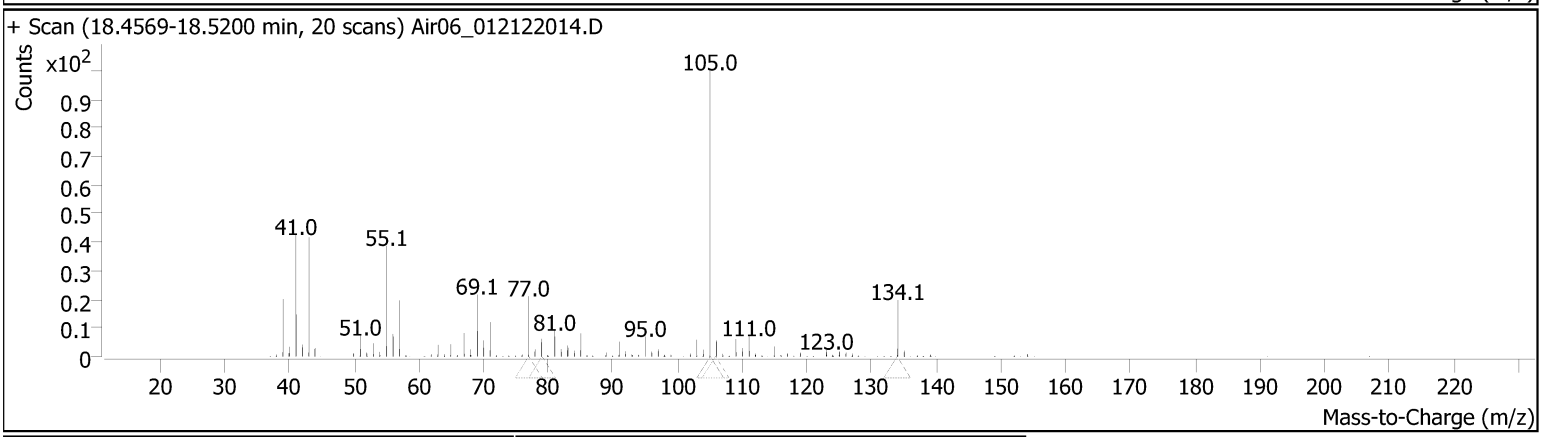



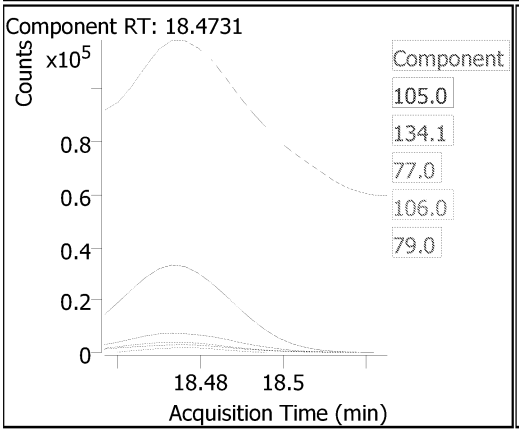



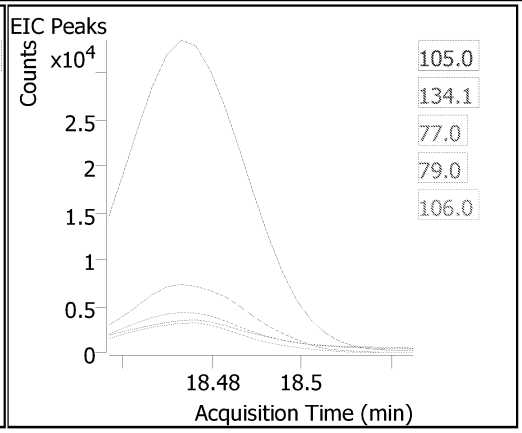
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4731 | Benzene, 1-methyl-4-propyl- | 195008.3 | 94.0 | 1074-55-1 | C10H14 | 0.4088 |

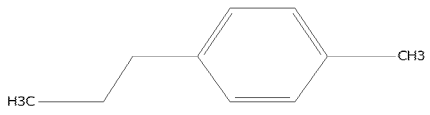


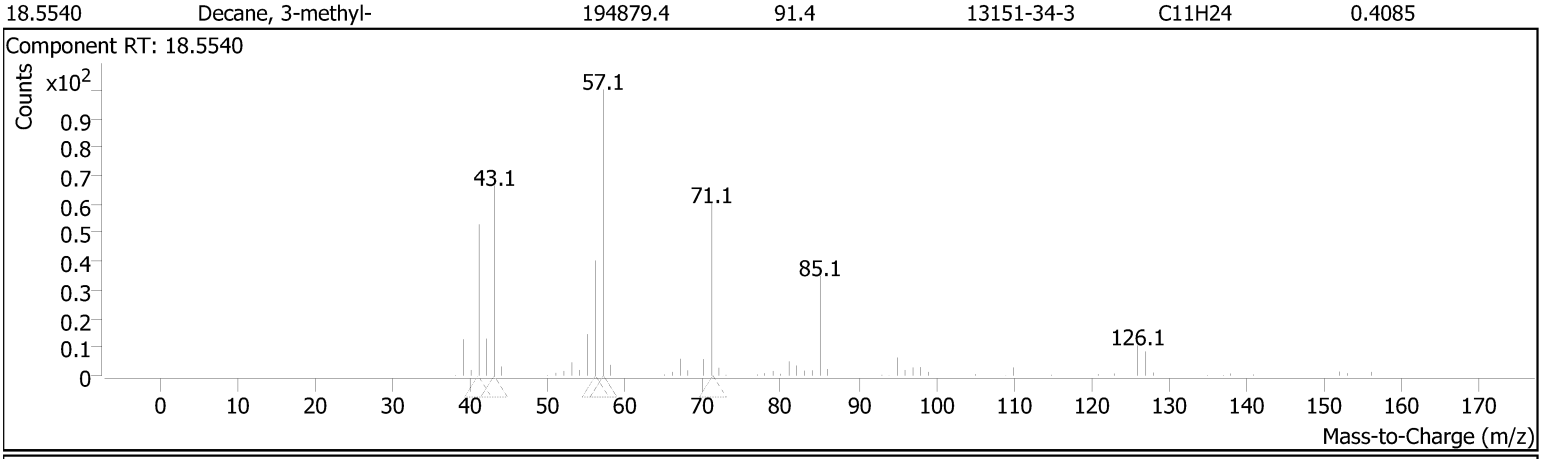



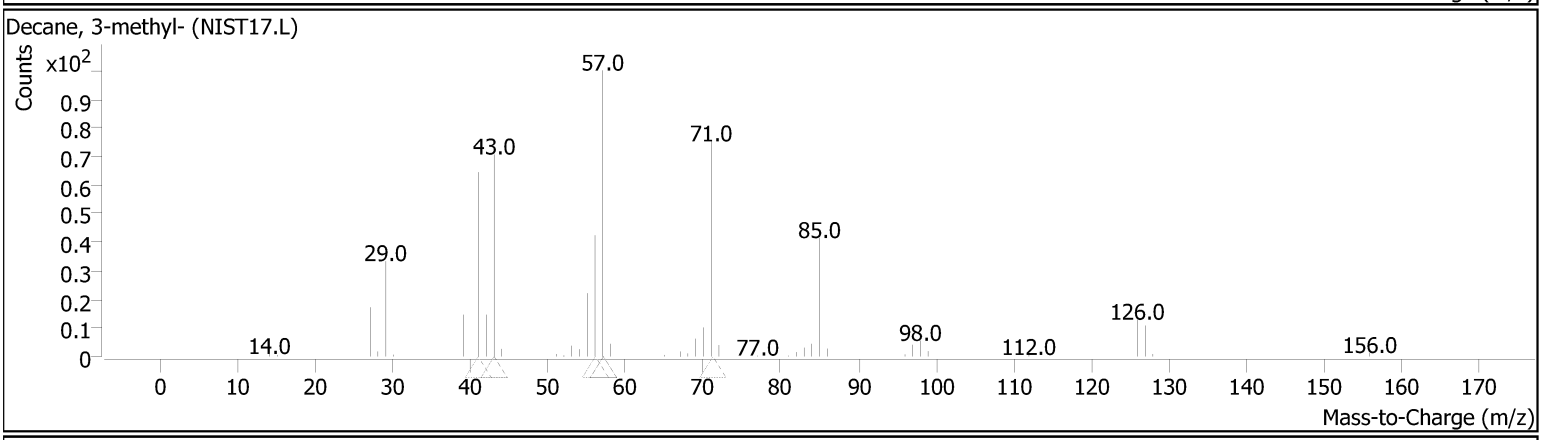



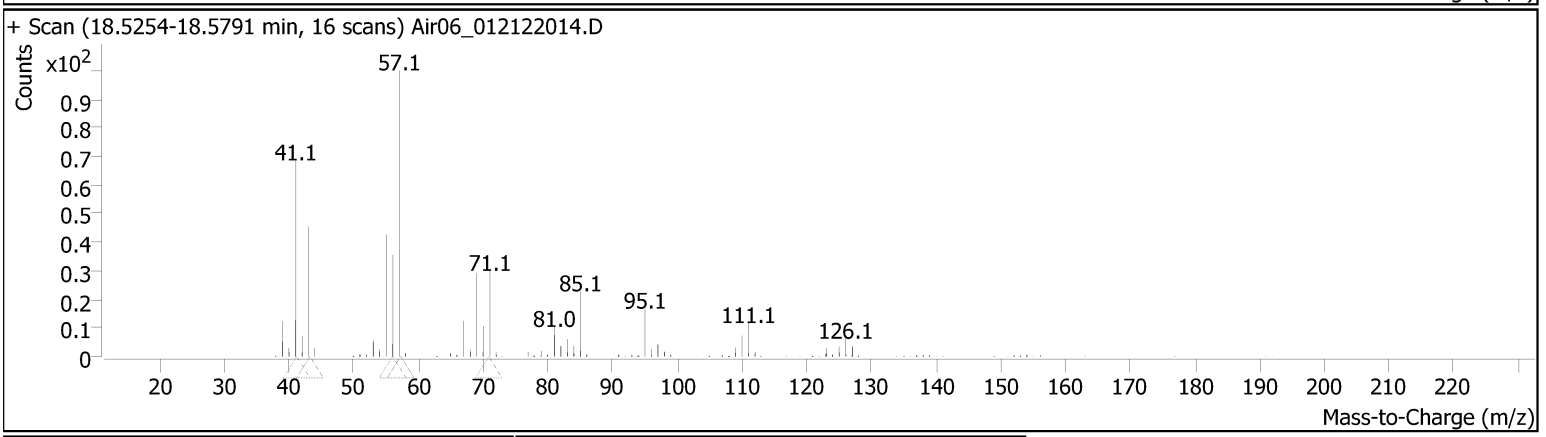



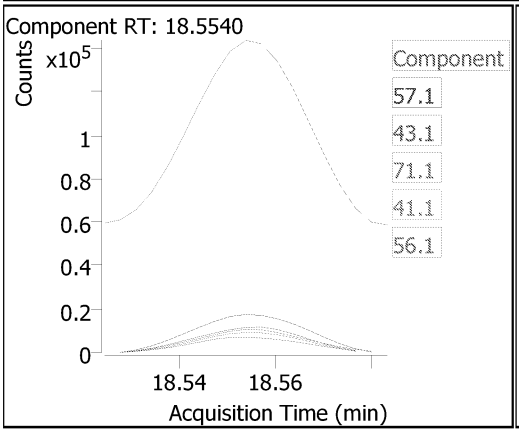



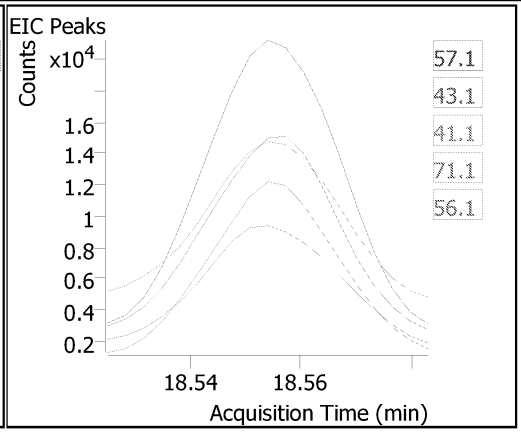
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.5540 | Decane, 3-methyl- | 194879.4 | 91.4 | 13151-34-3 | C11H24 | 0.4085 |

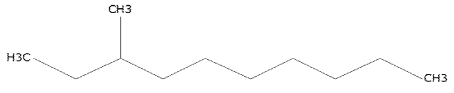


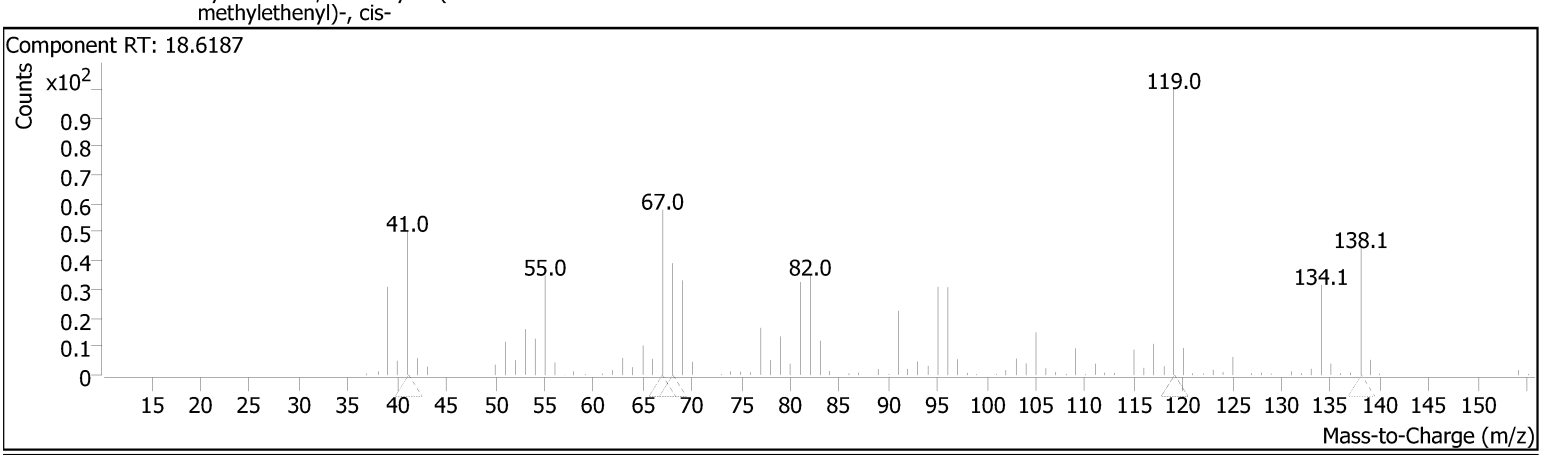



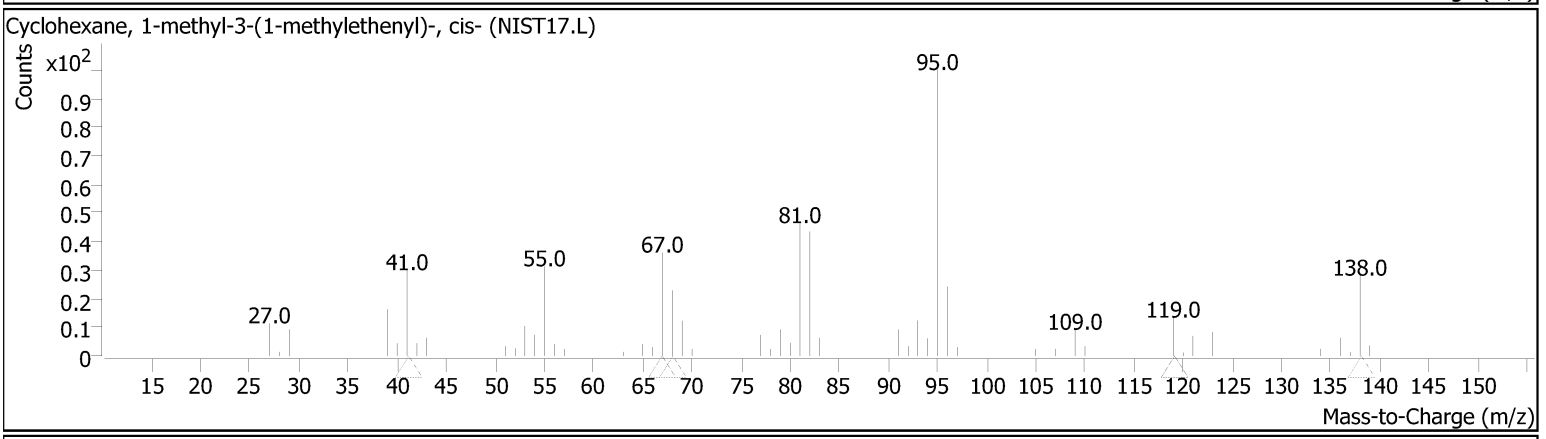



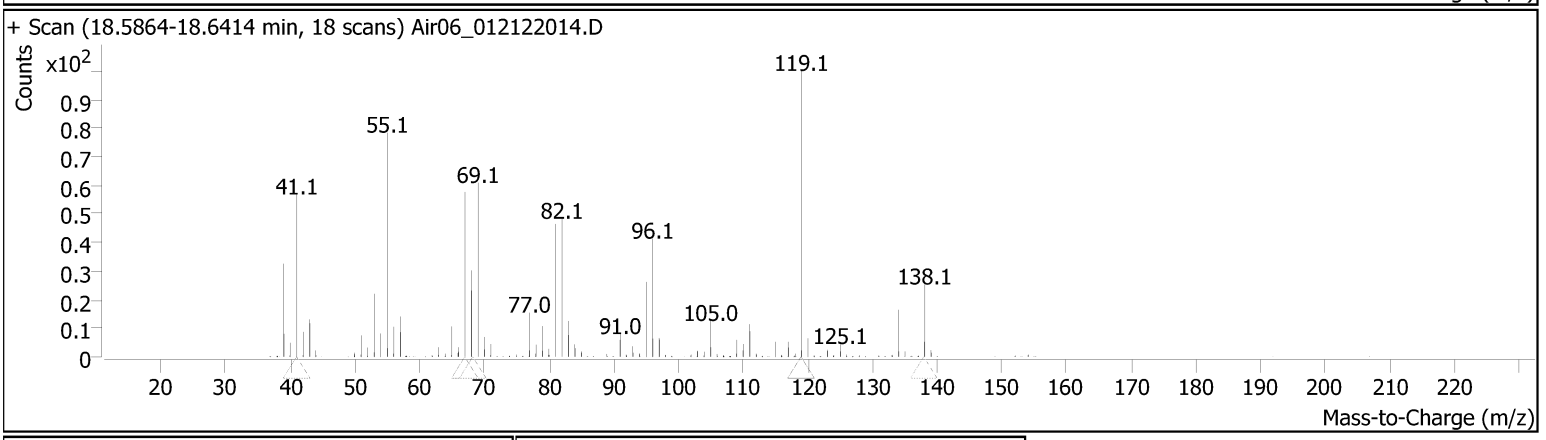



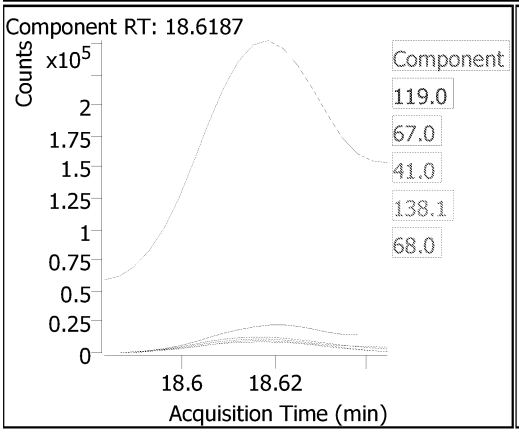



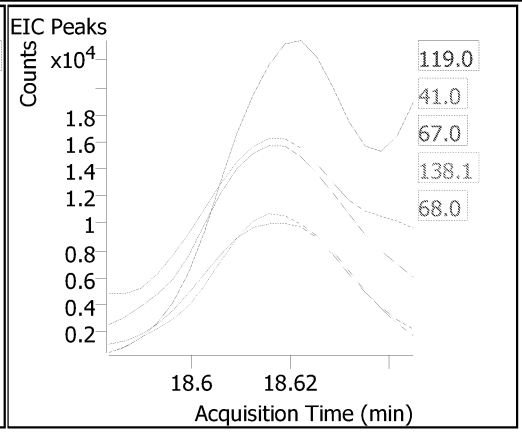
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.6187 | Cyclohexane, 1-methyl-3-(1-methylethenyl)-, cis- | 464163.2 | 77.2 | 24399-15-3 | C10H18 | 0.973 |

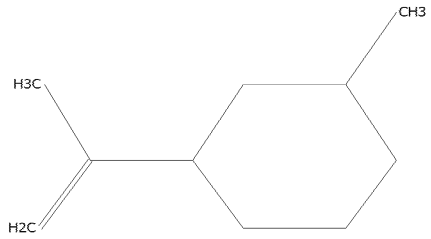


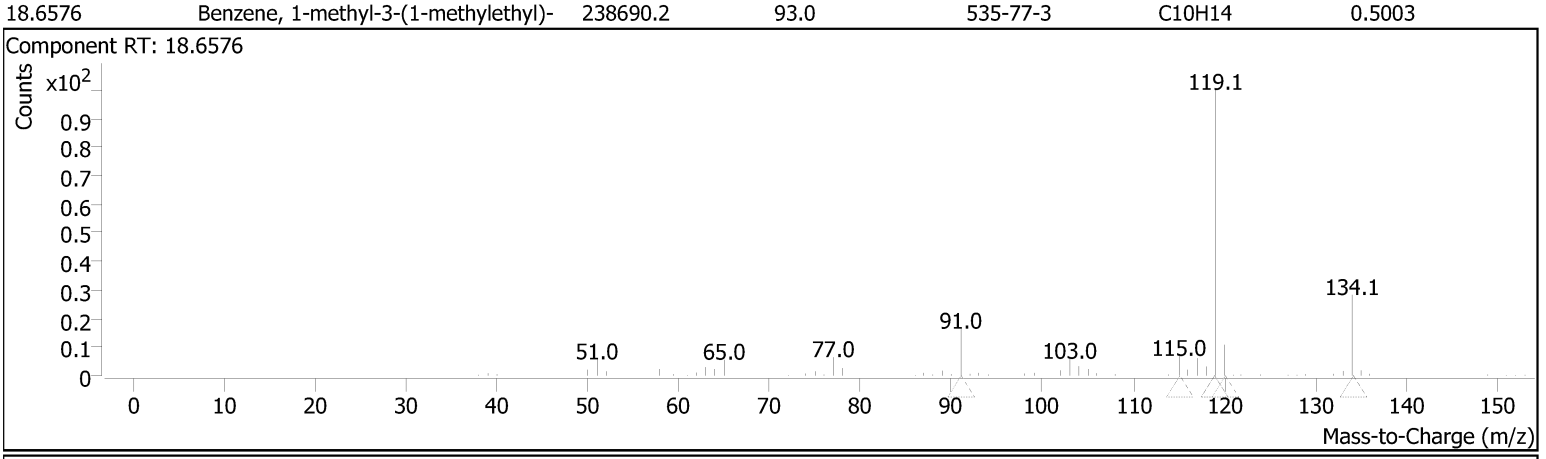



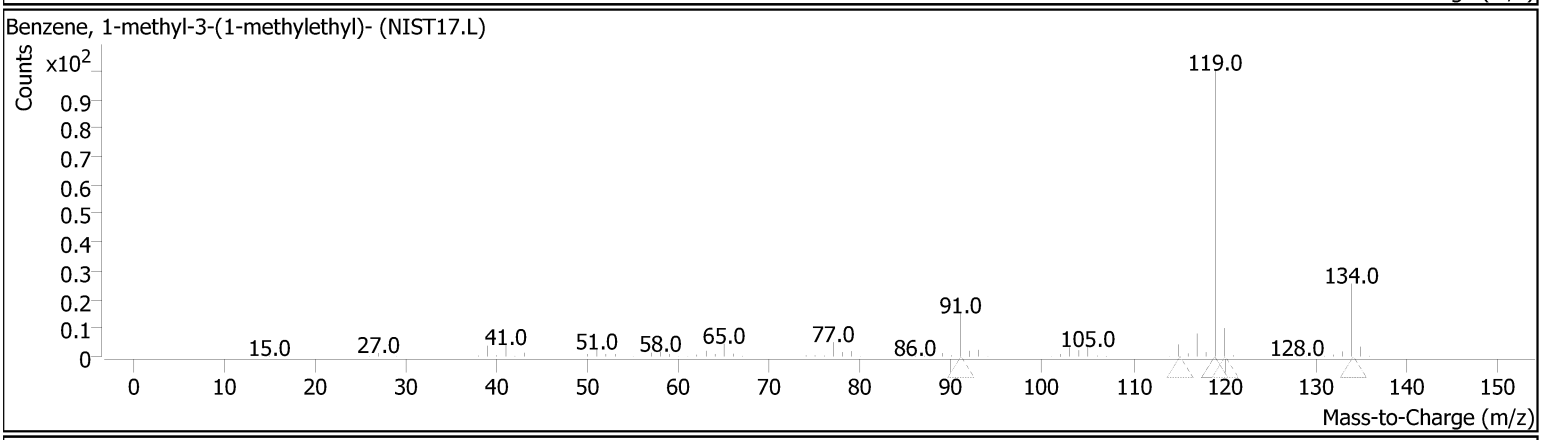



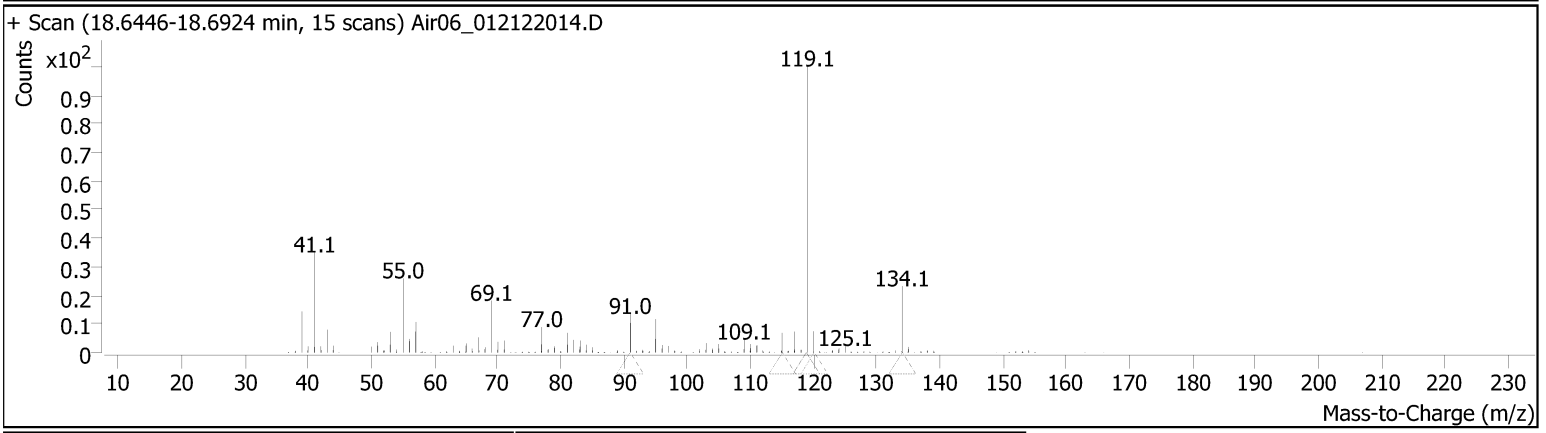



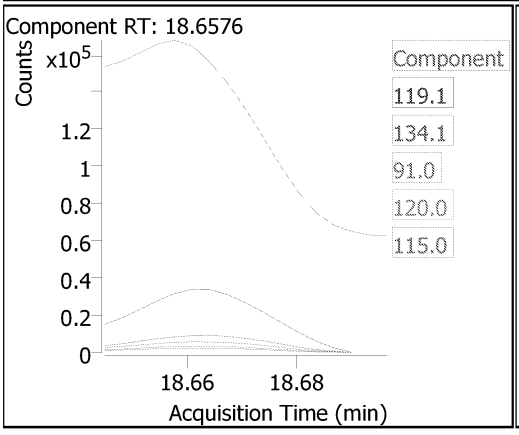



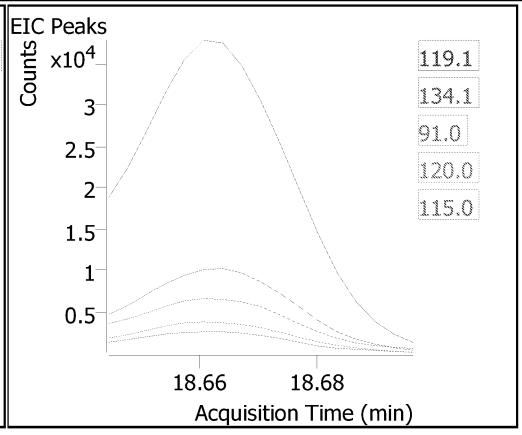
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.6576 | Benzene, 1-methyl-3-(1-methylethyl)- | 238690.2 | 93.0 | 535-77-3 | C10H14 | 0.5003 |

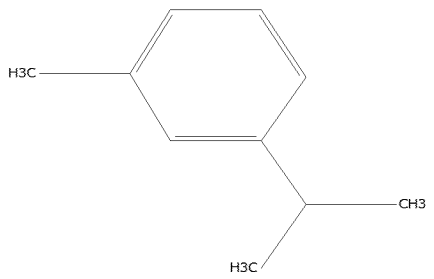


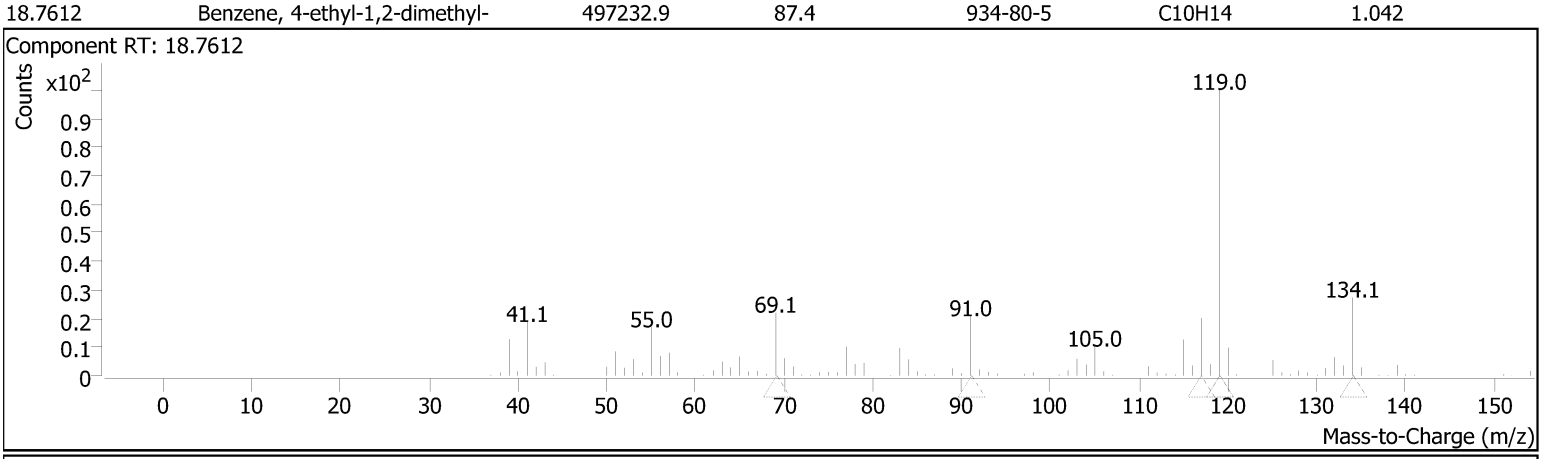



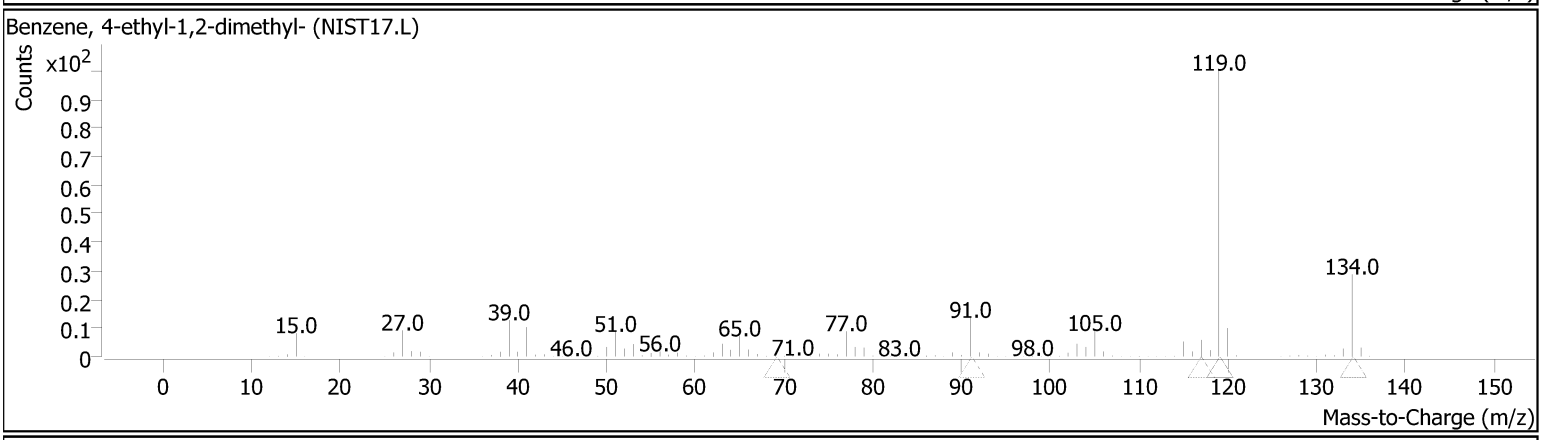



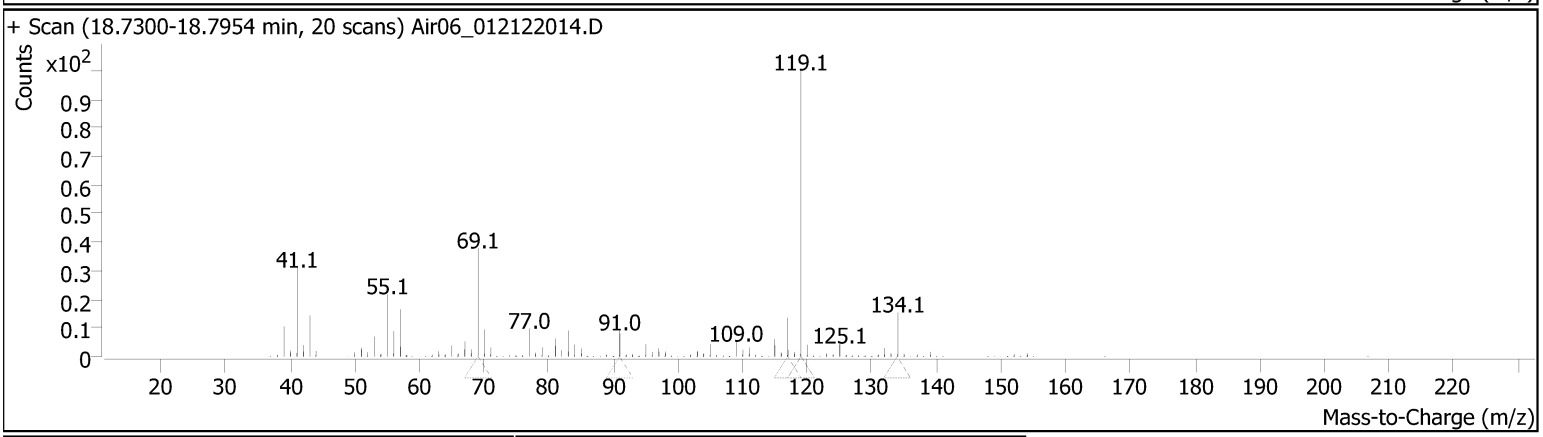



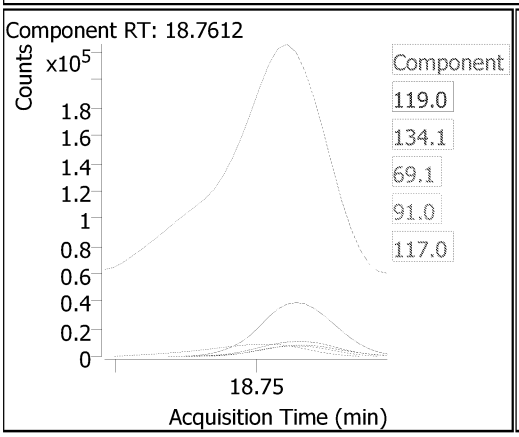



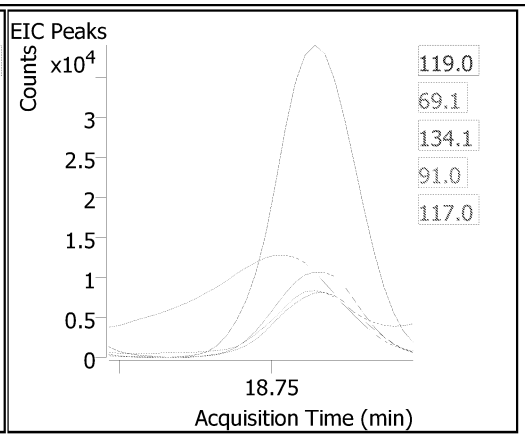
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.7612 | Benzene, 4-ethyl-1,2-dimethyl- | 497232.9 | 87.4 | 934-80-5 | C10H14 | 1.042 |

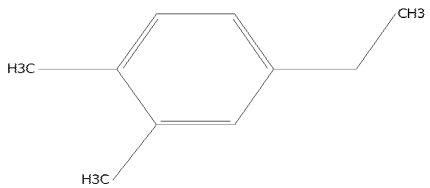


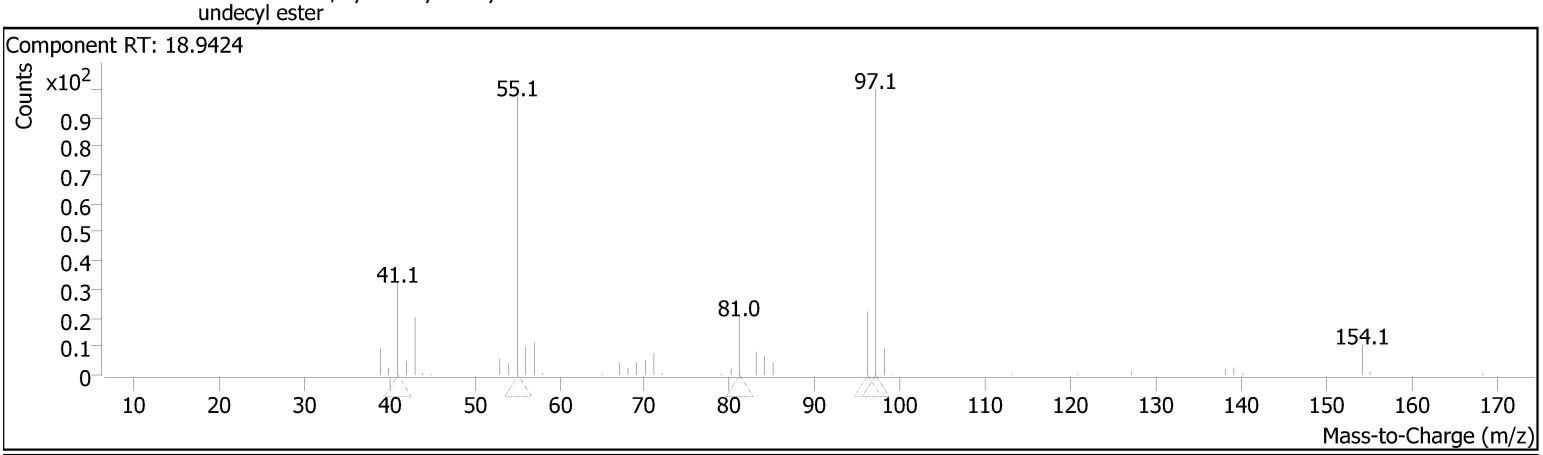



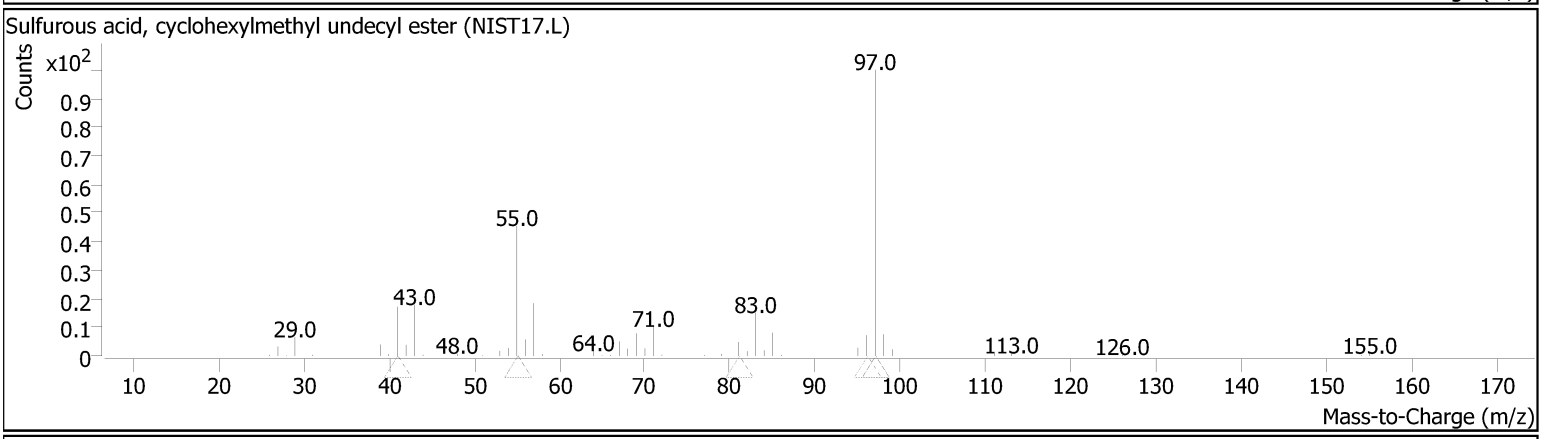



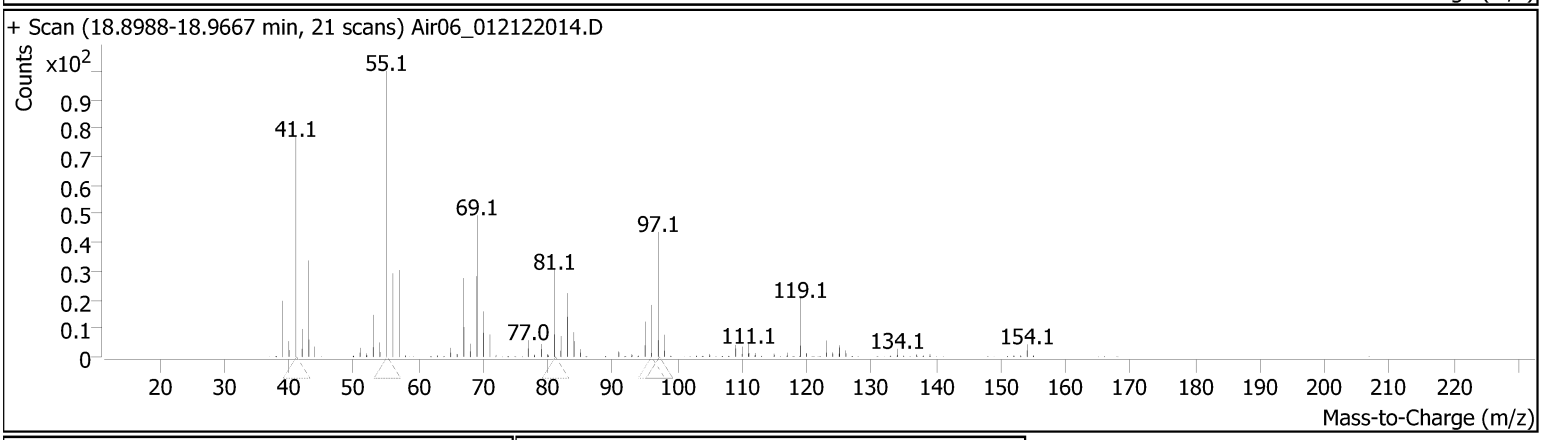



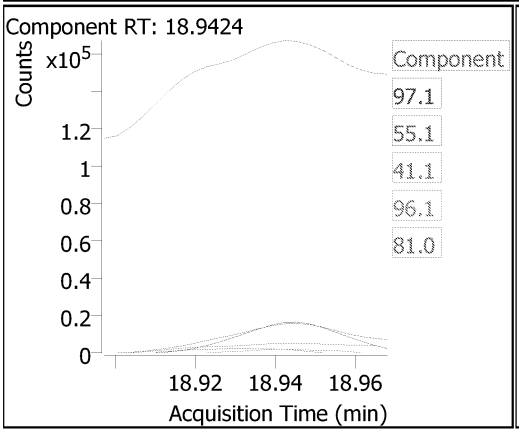



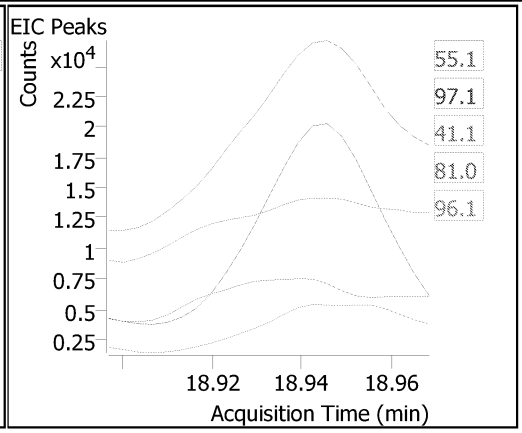
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.9424 | Sulfurous acid, cyclohexylmethyl undecyl ester | 441003.5 | 86.1 | 1000309-21-9 | C18H36O3S | 0.9244 |

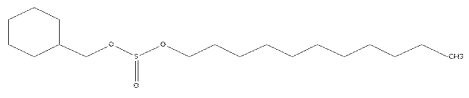


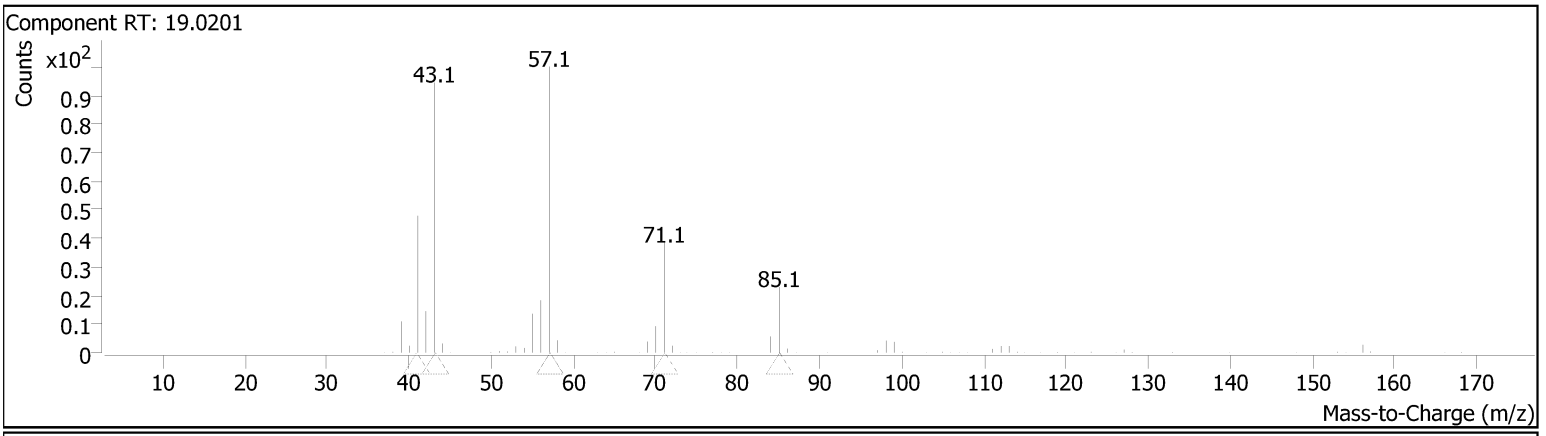



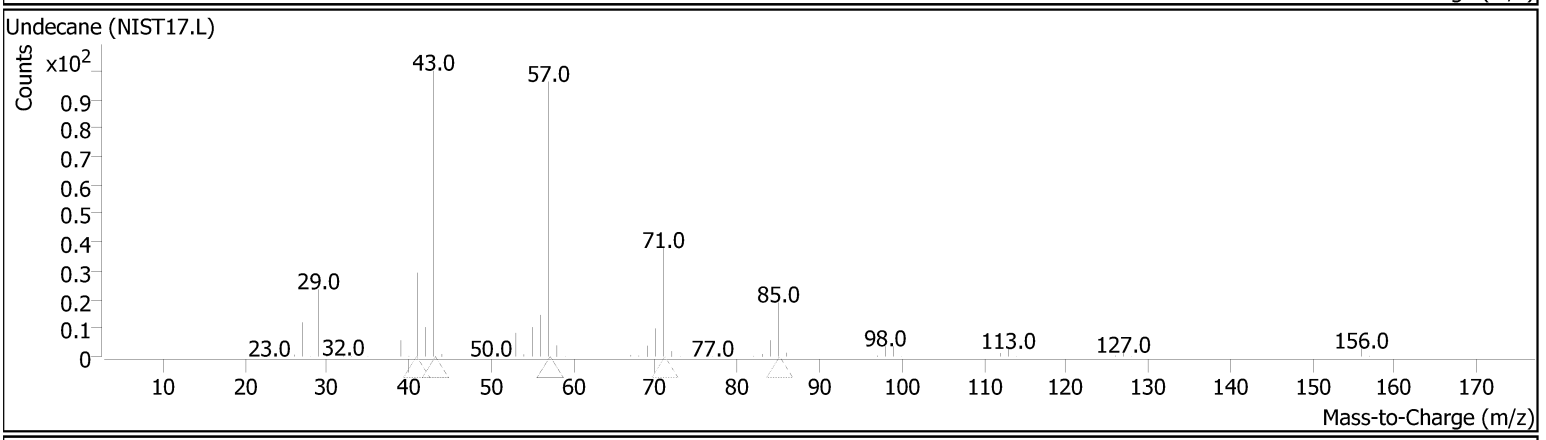



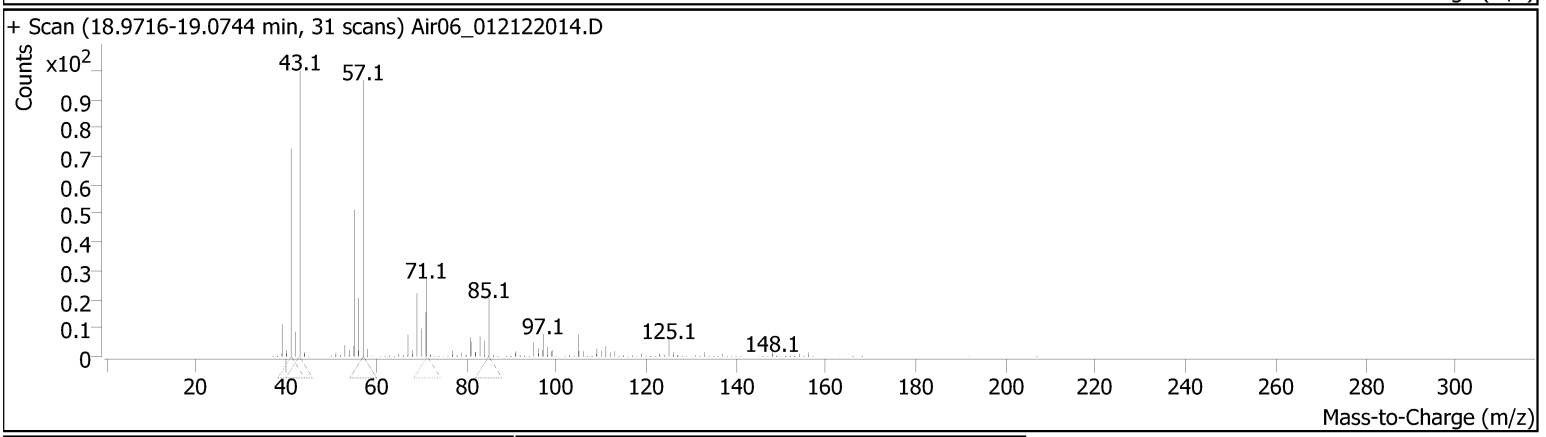



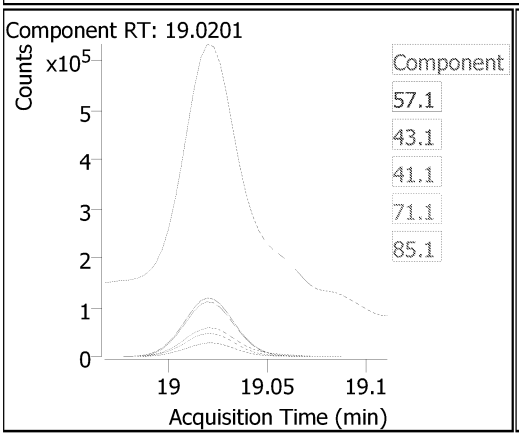



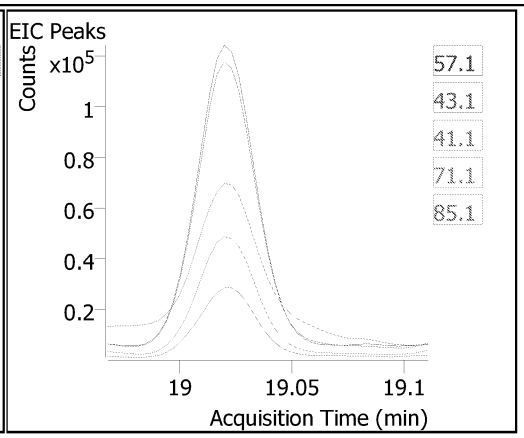
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.0201 | Undecane | 1751996.8 | 96.3 | 1120-21-4 | C11H24 | 3.673 |



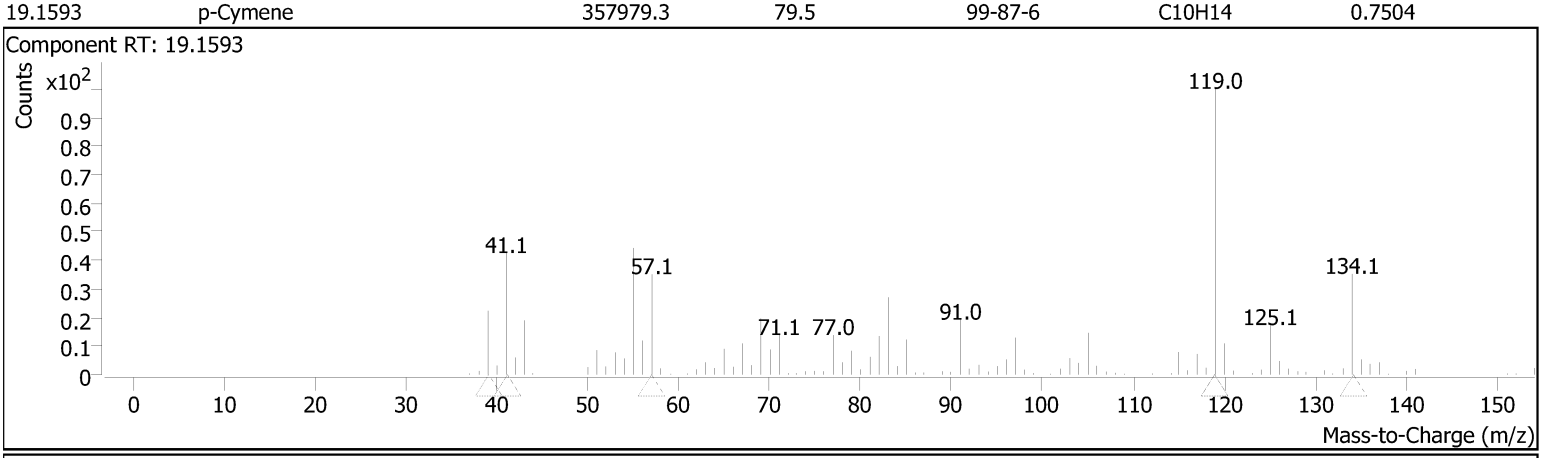



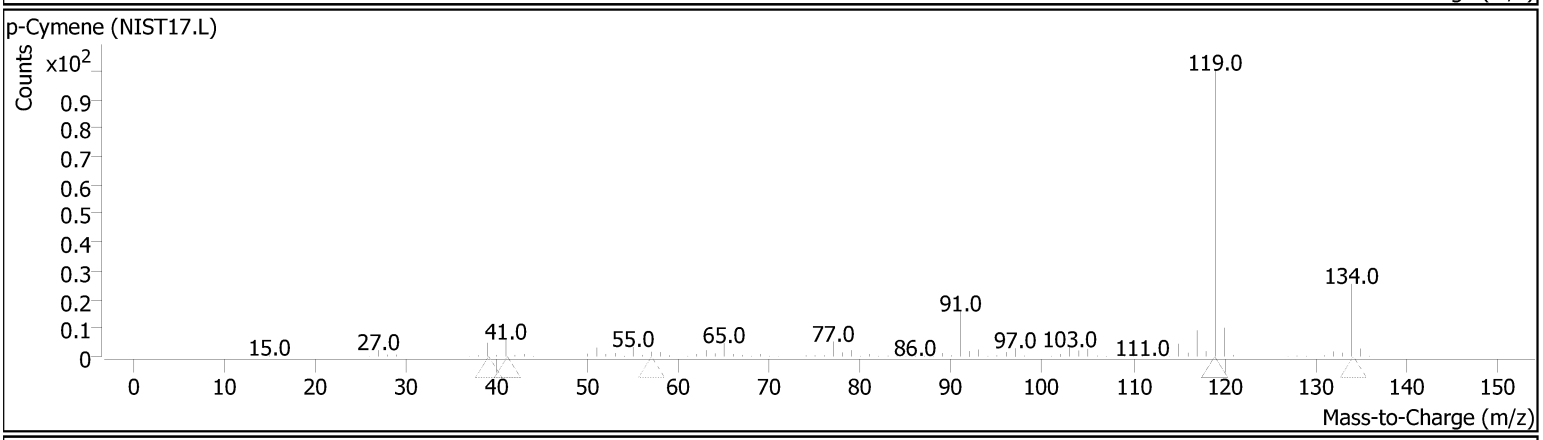



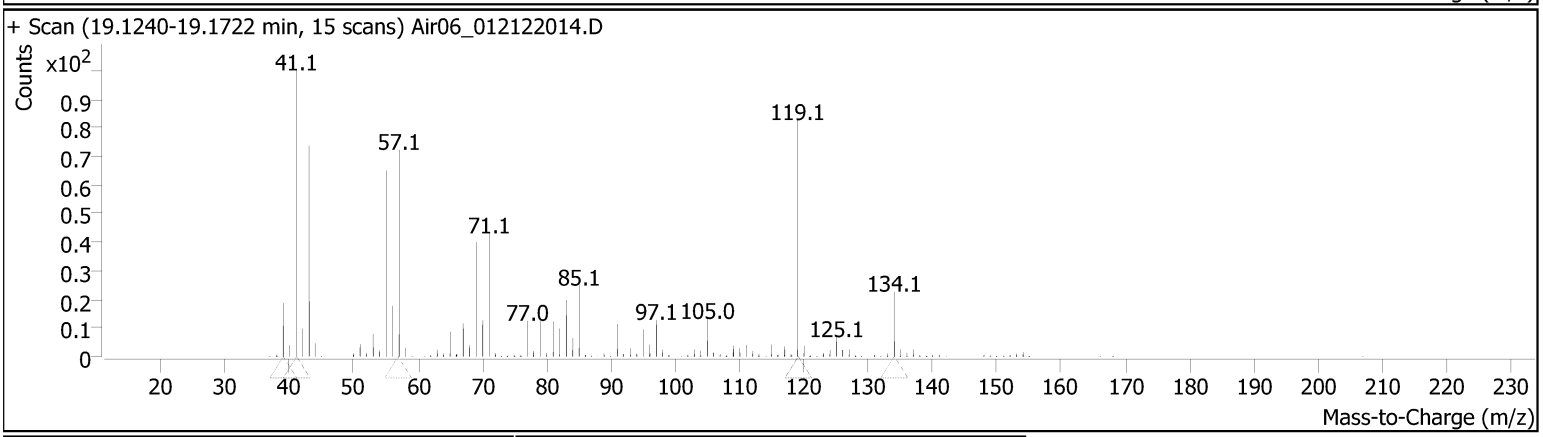



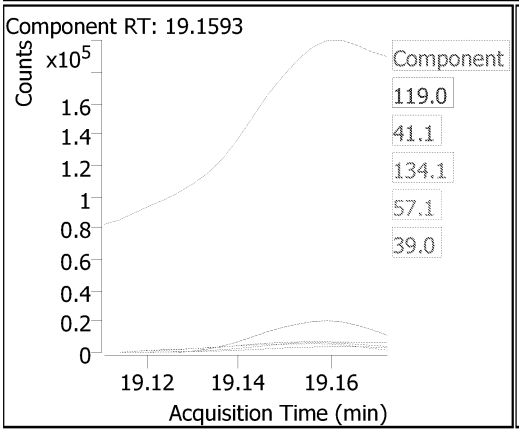


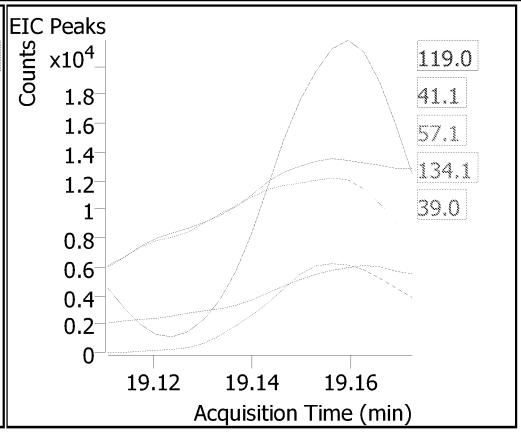

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.1593 | p-Cymene | 357979.3 | 79.5 | 99-87-6 | C10H14 | 0.7504 |

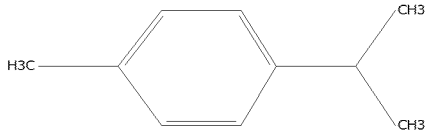


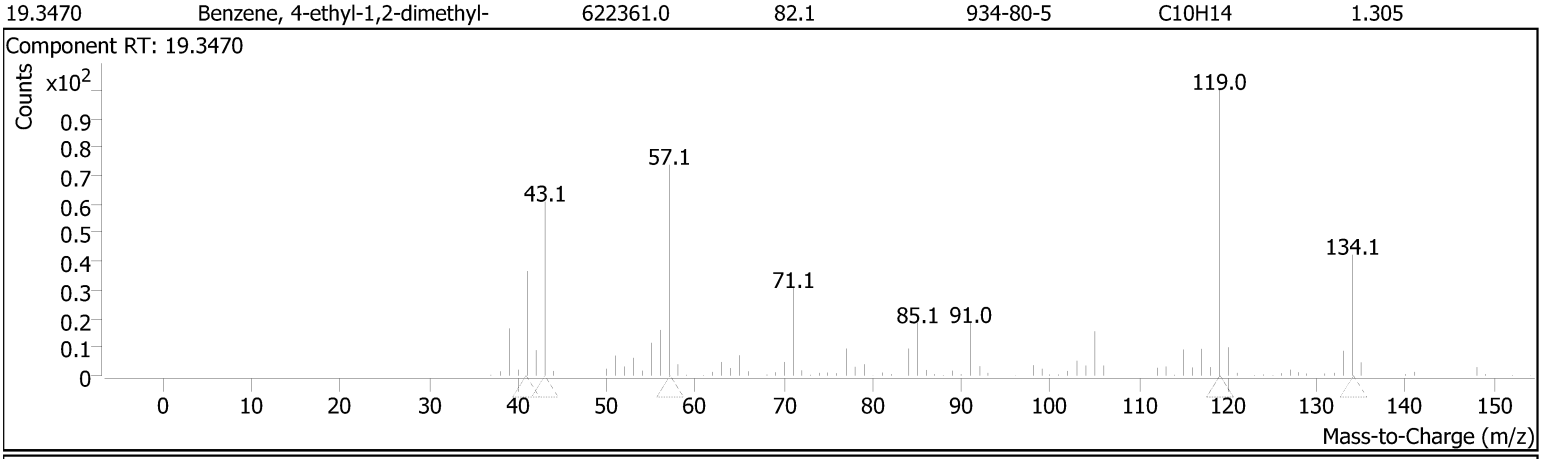



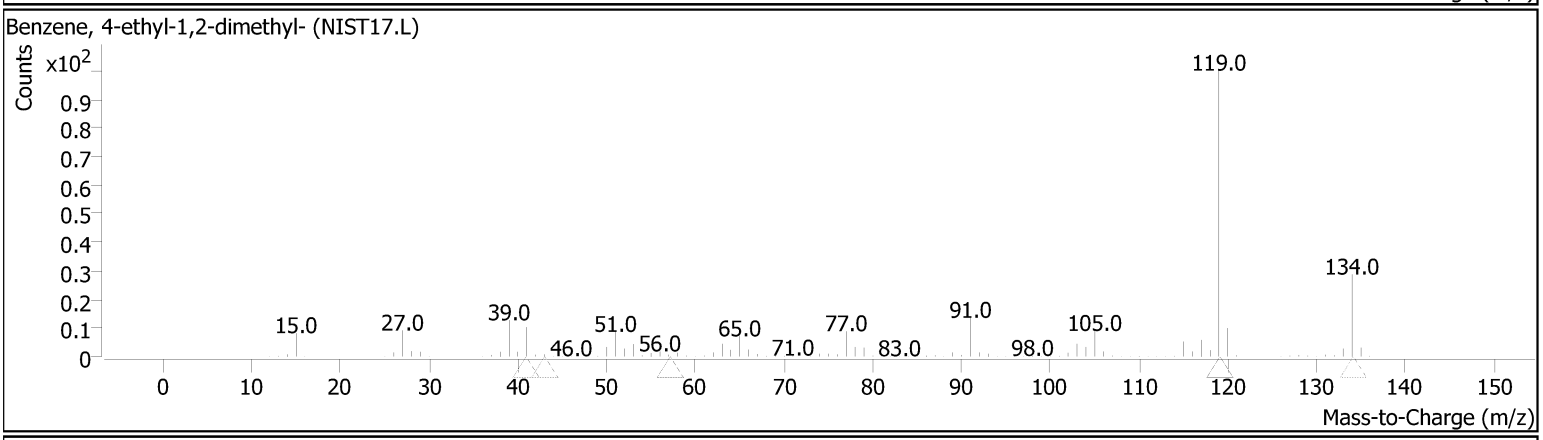



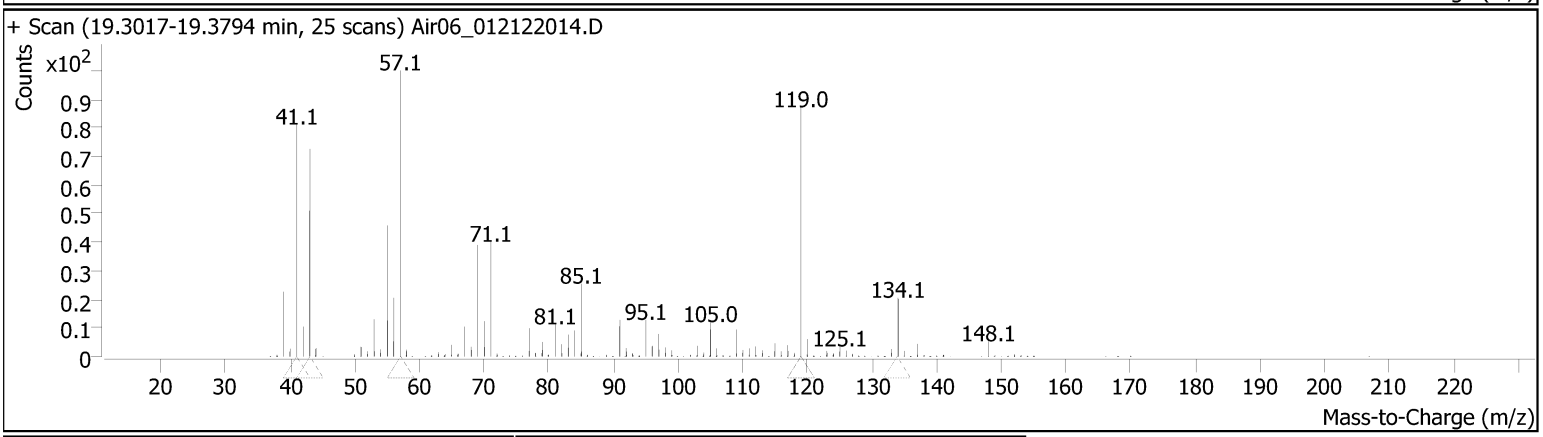



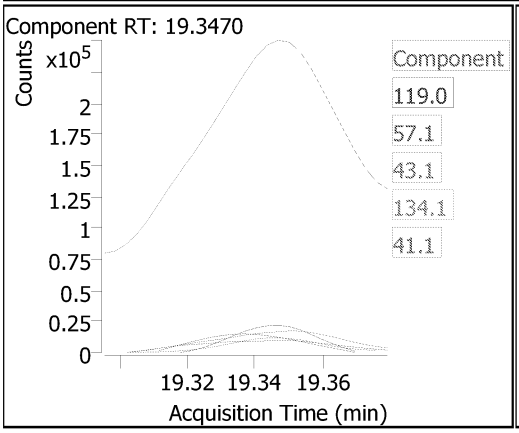



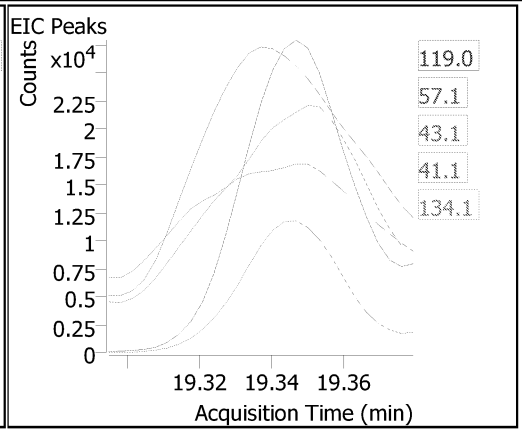
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.3470 | Benzene, 4-ethyl-1,2-dimethyl- | 622361.0 | 82.1 | 934-80-5 | C10H14 | 1.305 |

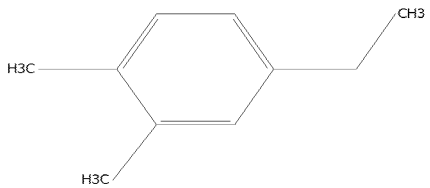


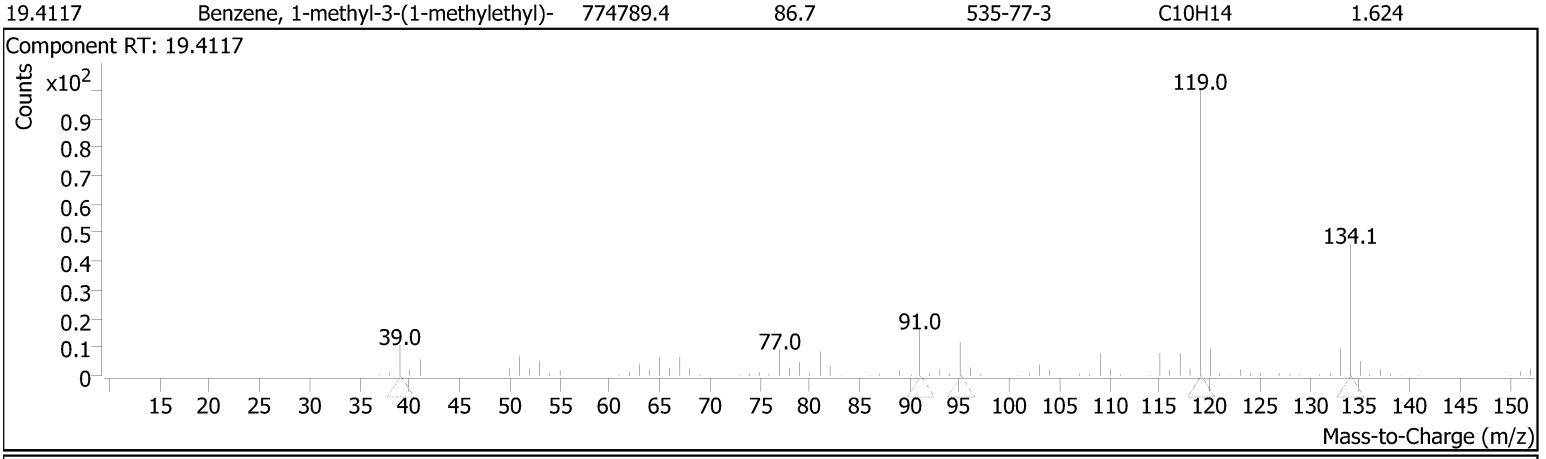



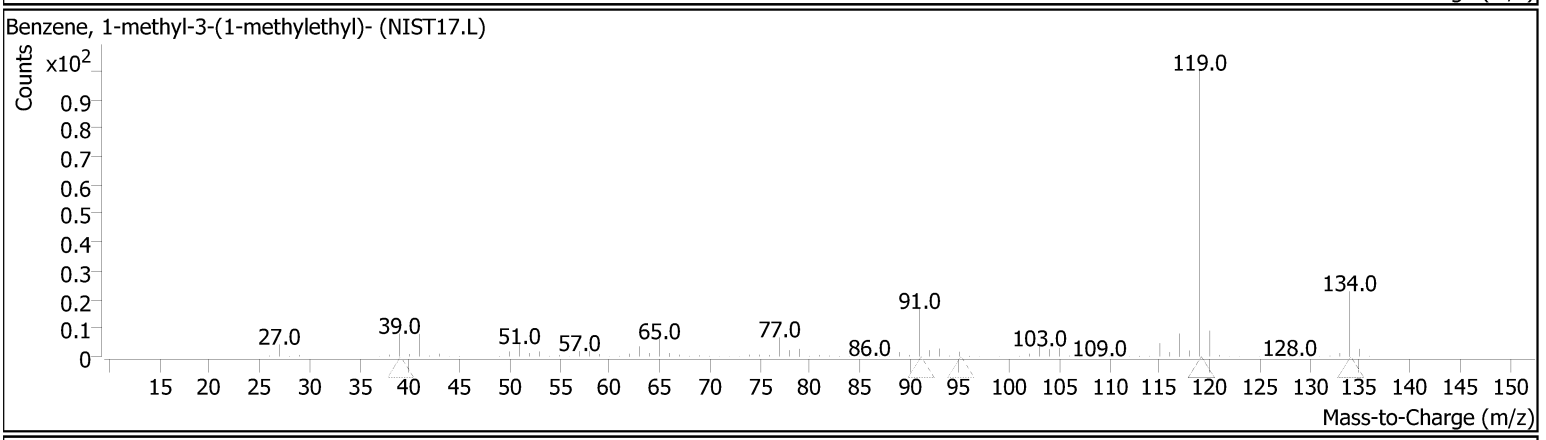



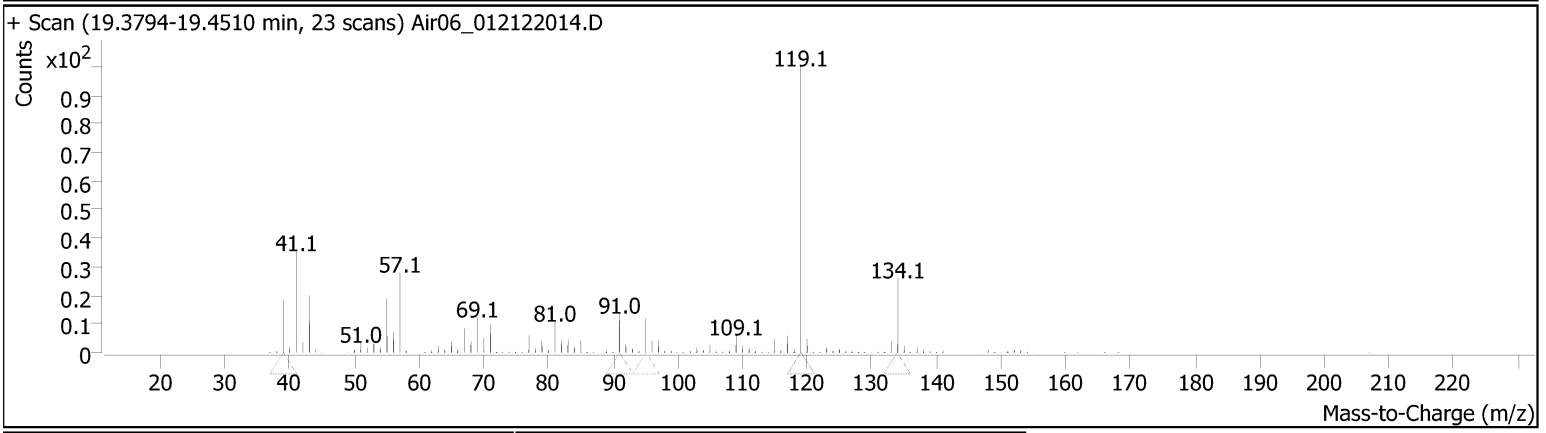



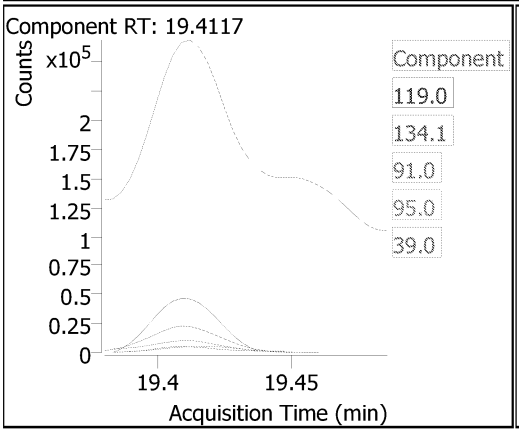



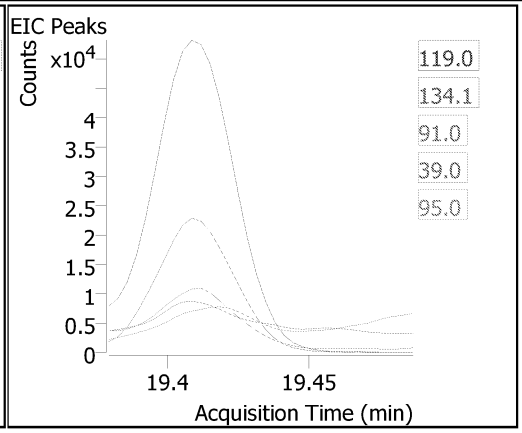
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.4117 | Benzene, 1-methyl-3-(1-methylethyl)- | 774789.4 | 86.7 | 535-77-3 | C10H14 | 1.624 |

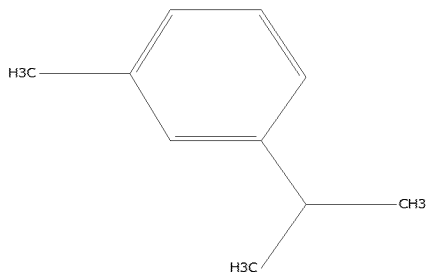


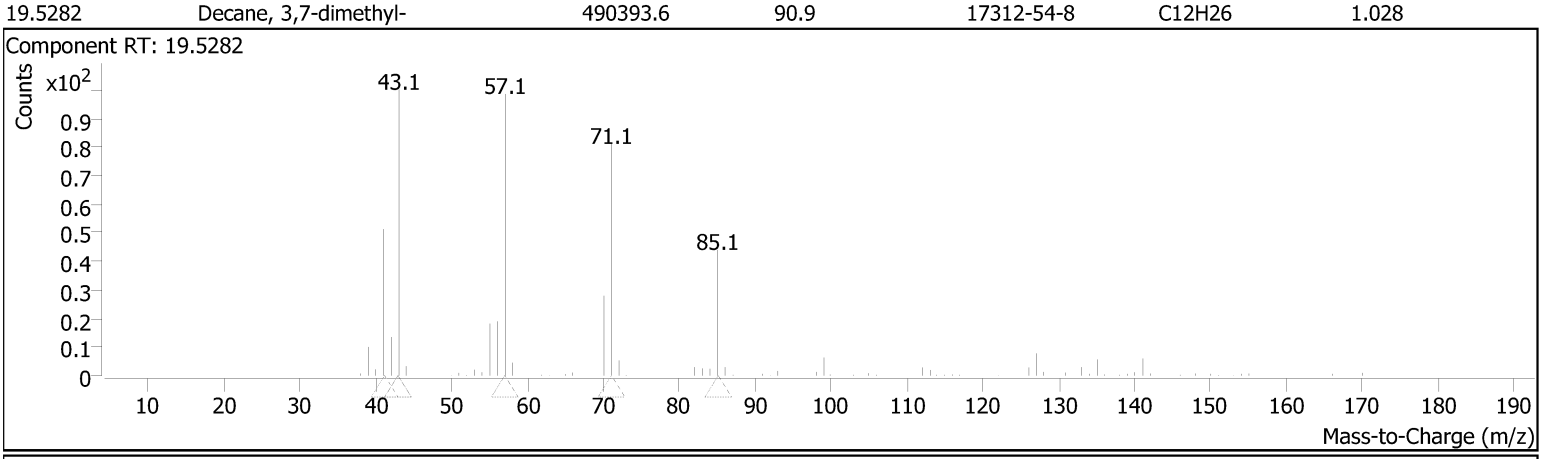



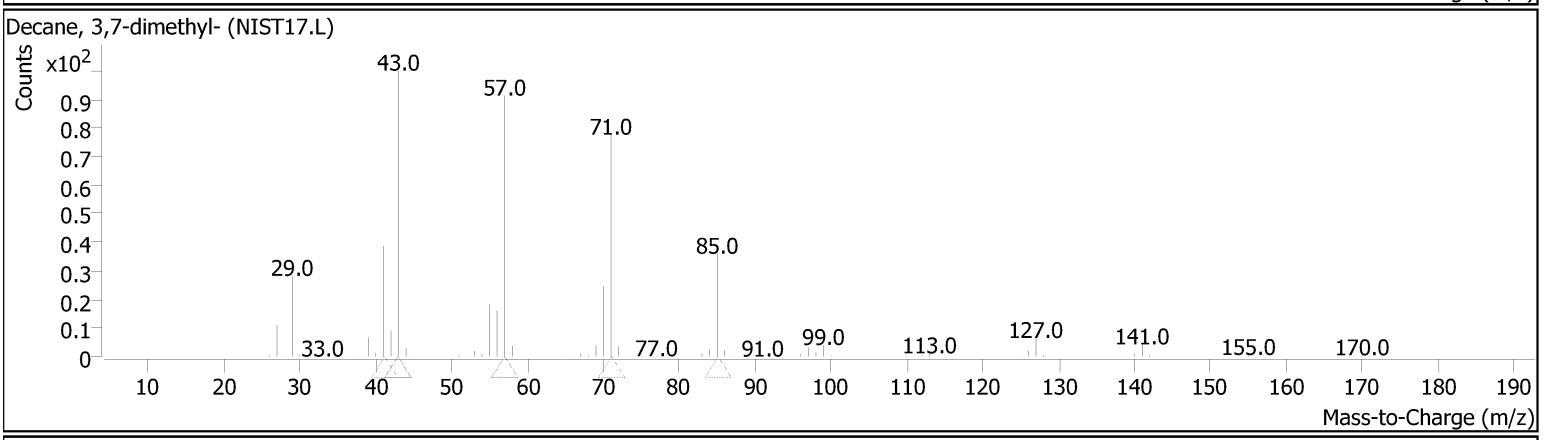



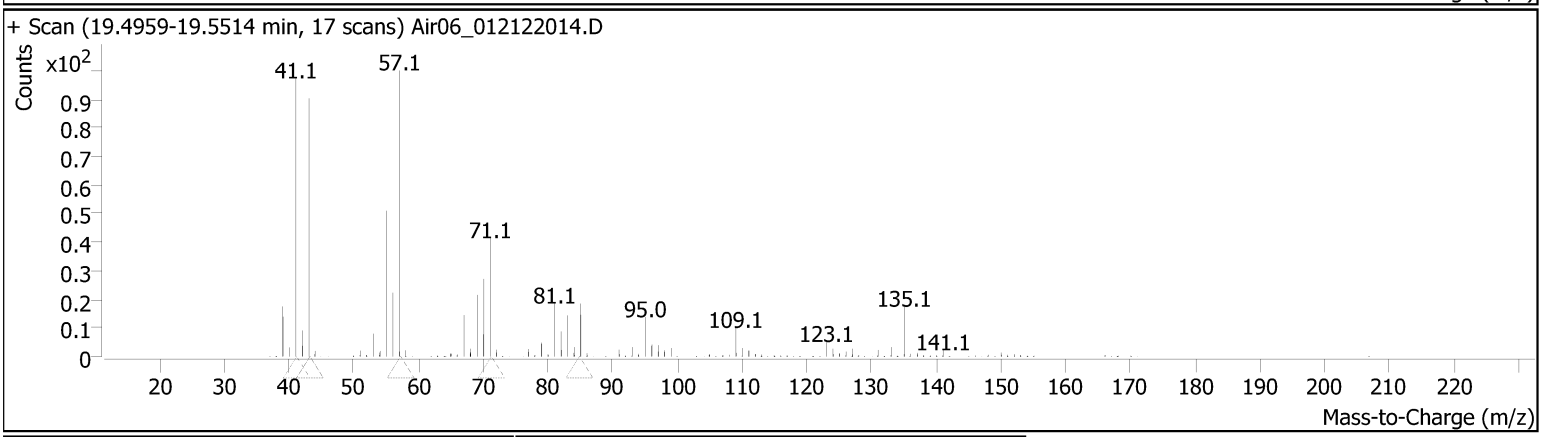



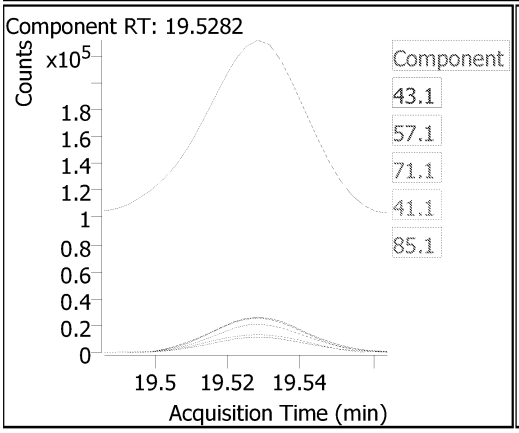



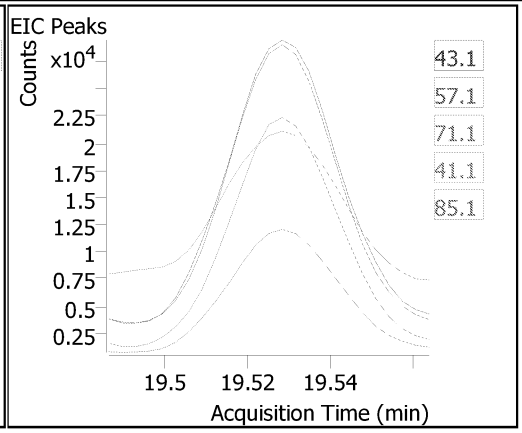
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5282 | Decane, 3,7-dimethyl- | 490393.6 | 90.9 | 17312-54-8 | C12H26 | 1.028 |

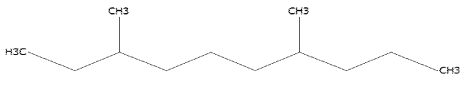


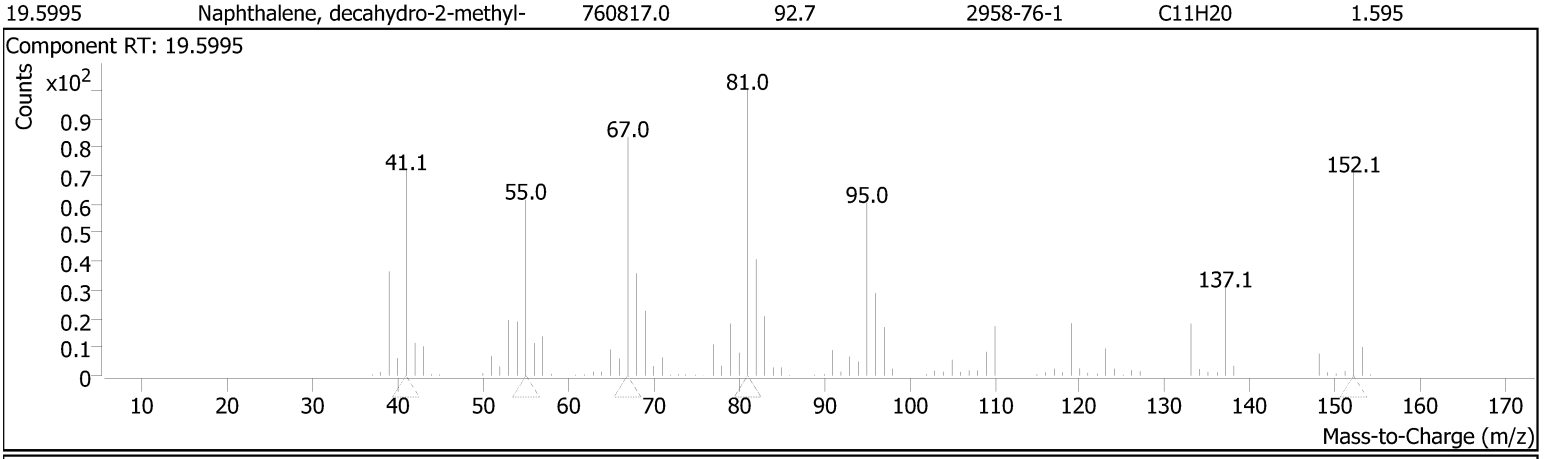



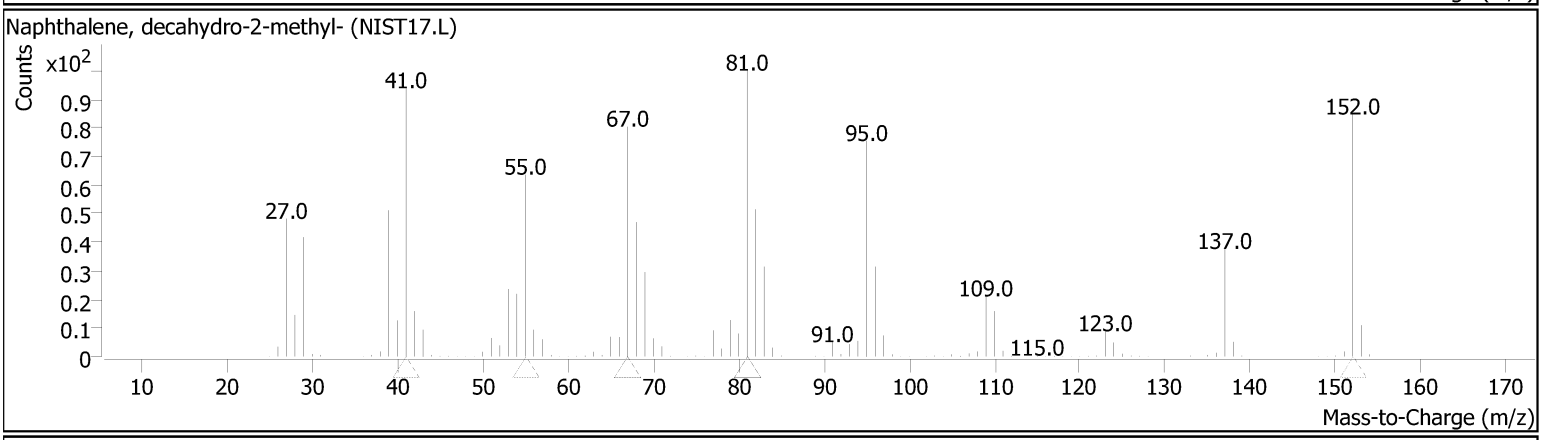



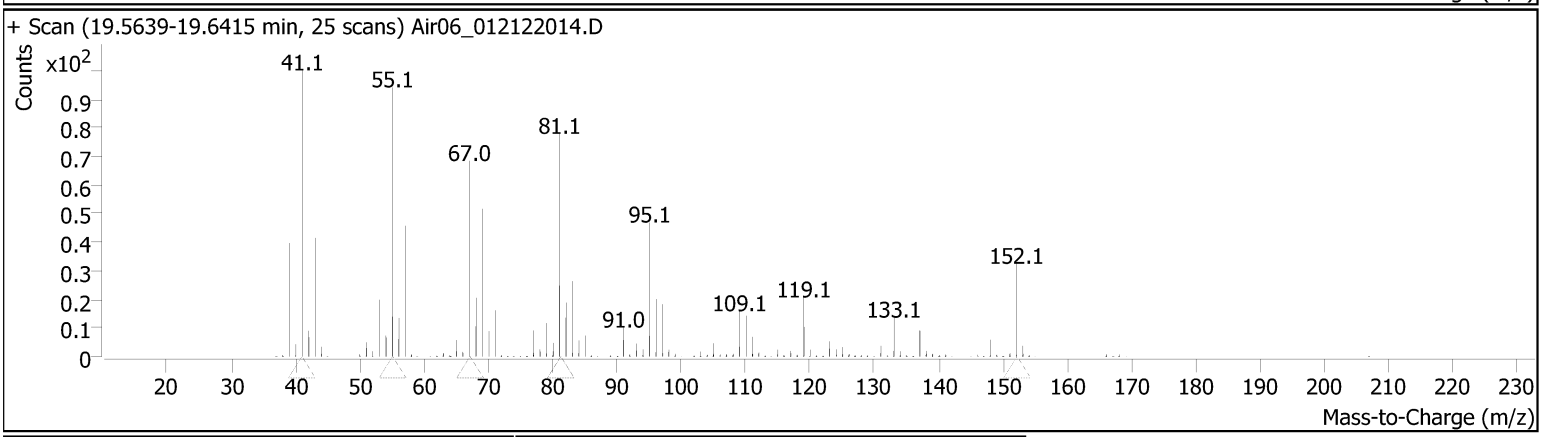
# Library Search Results - NonTarget Hits with Details

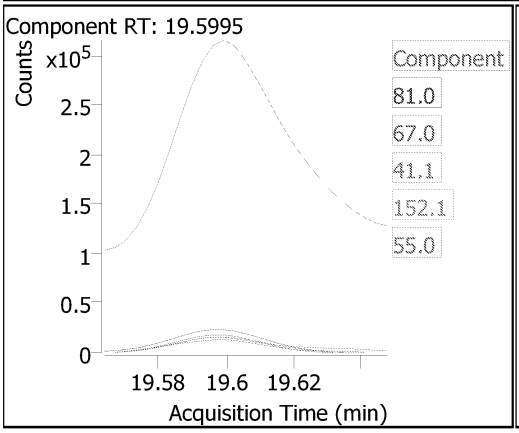
Agilent Technologies

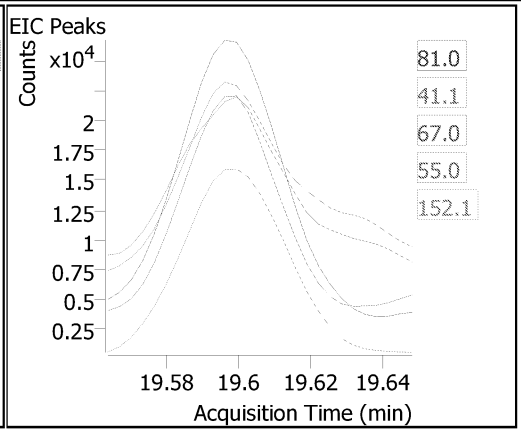
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5995 | Naphthalene, decahydro-2-methyl- | 760817.0 | 92.7 | 2958-76-1 | C11H20 | 1.595 |

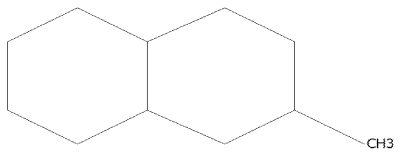


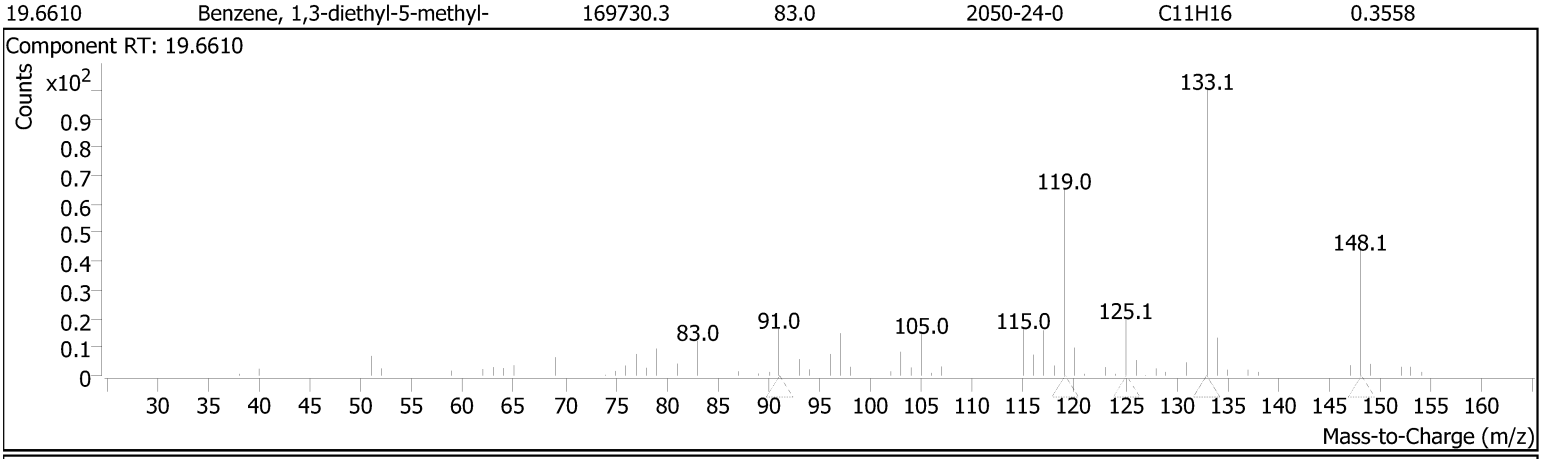



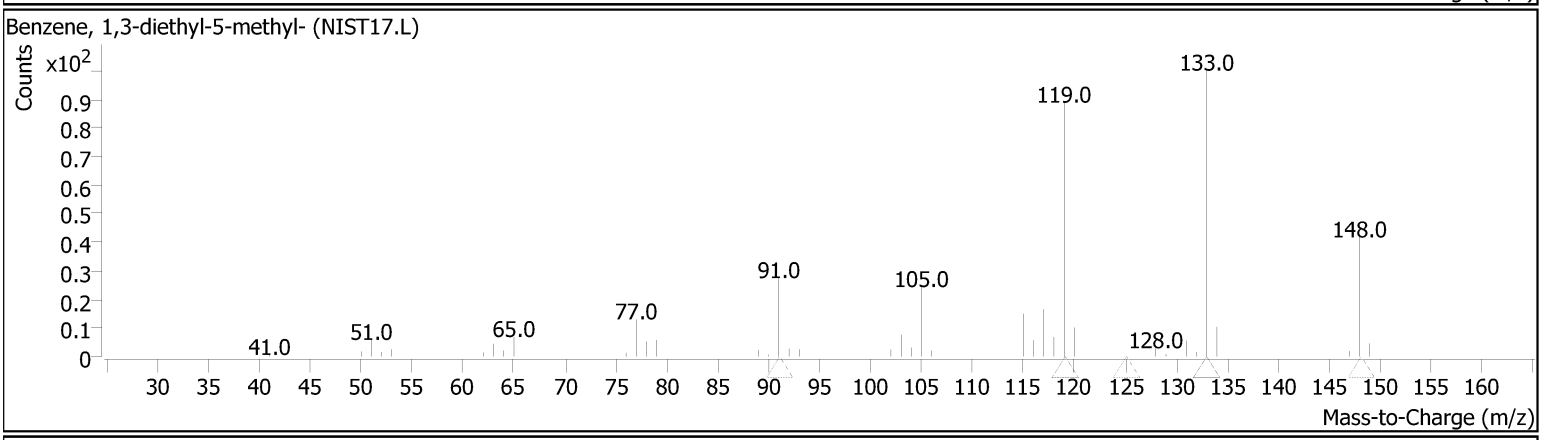



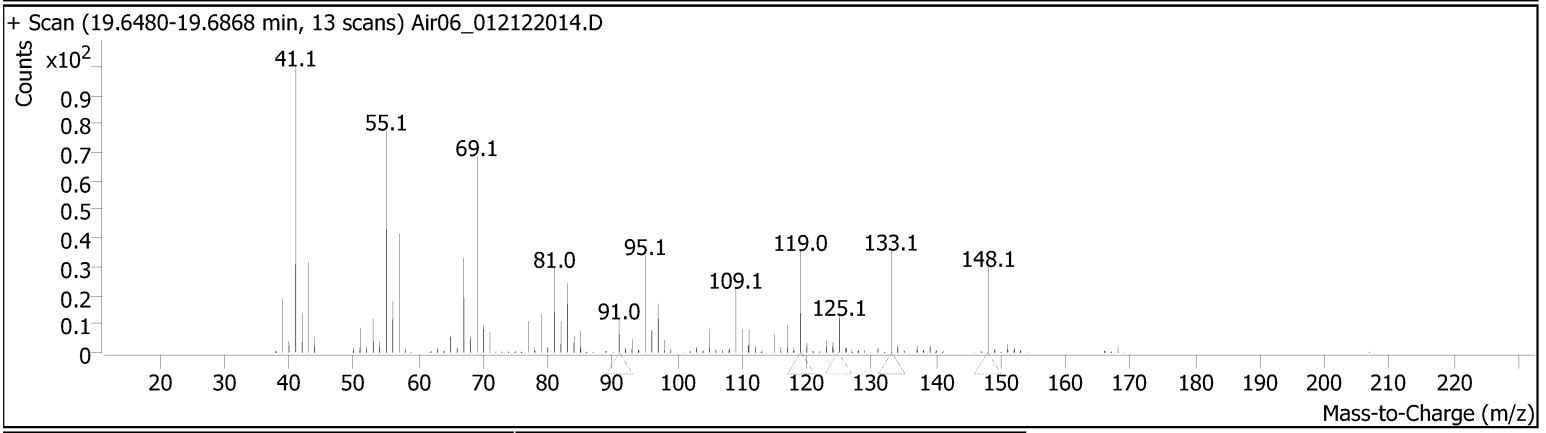



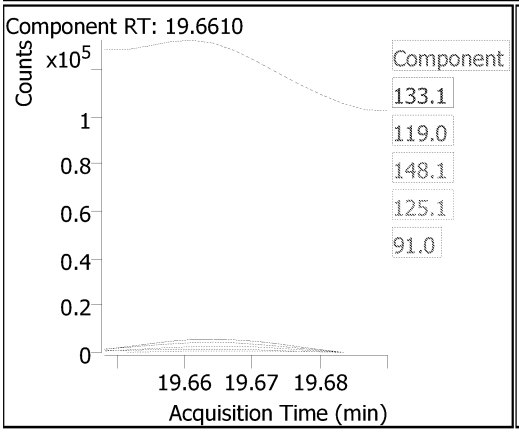



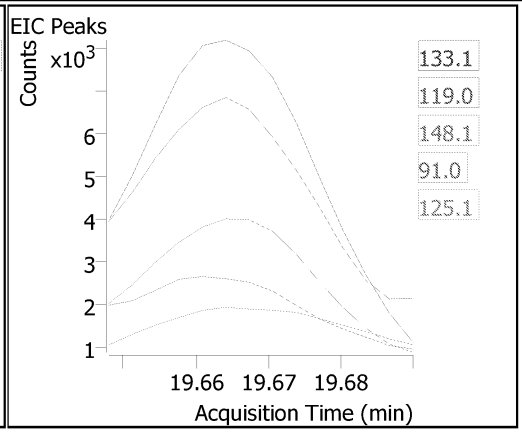
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.6610 | Benzene, 1,3-diethyl-5-methyl- | 169730.3 | 83.0 | 2050-24-0 | C11H16 | 0.3558 |

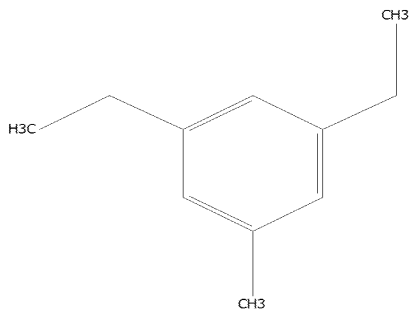


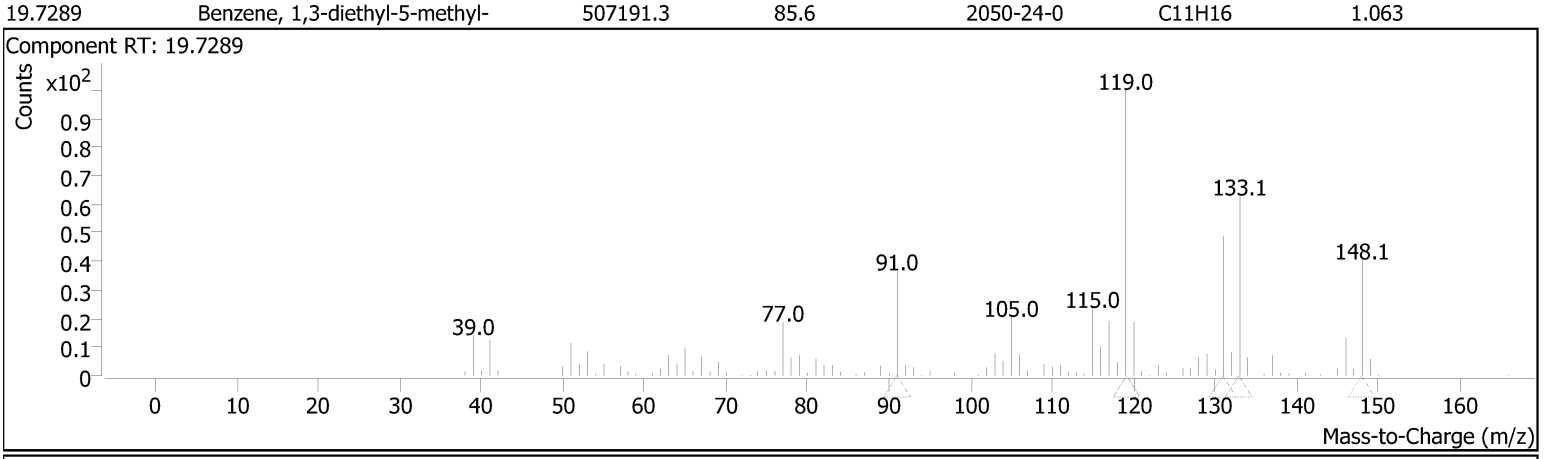



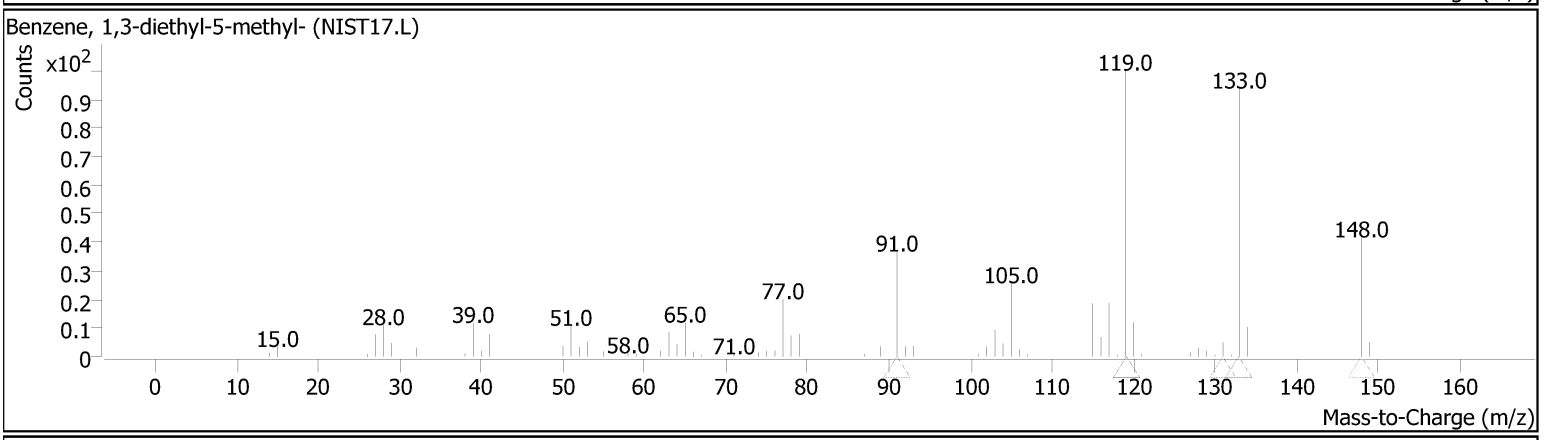



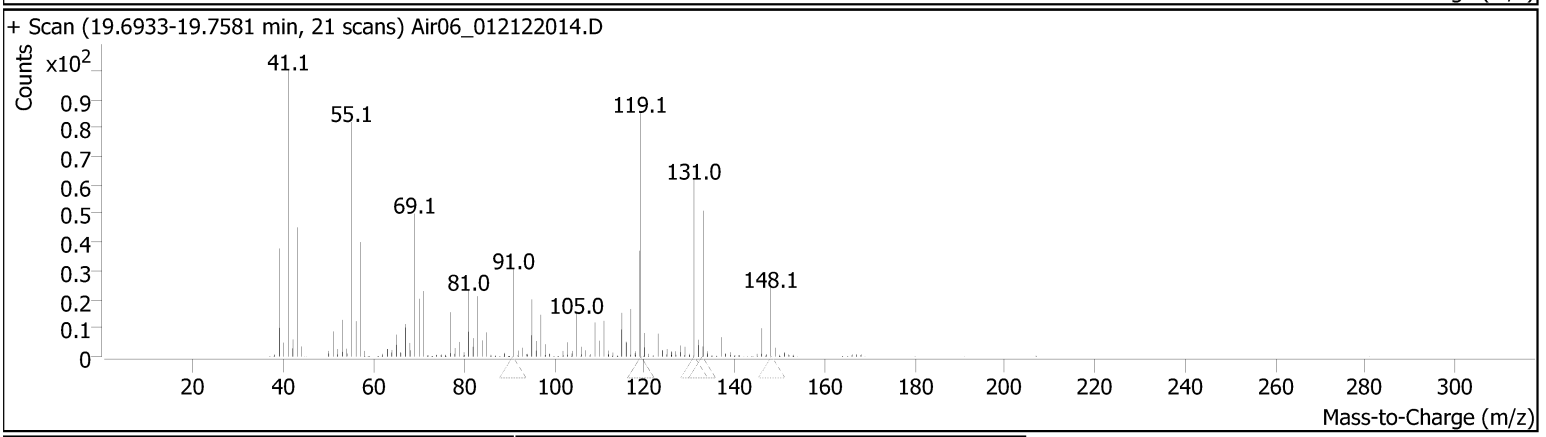



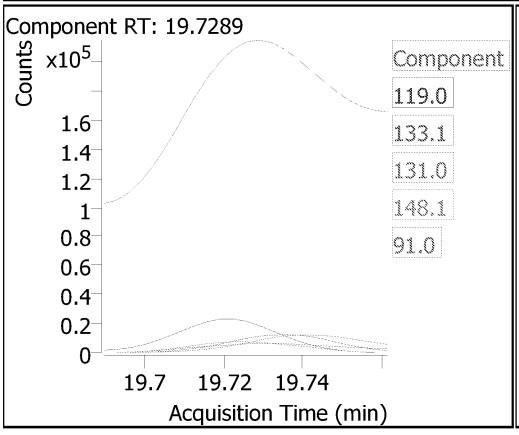



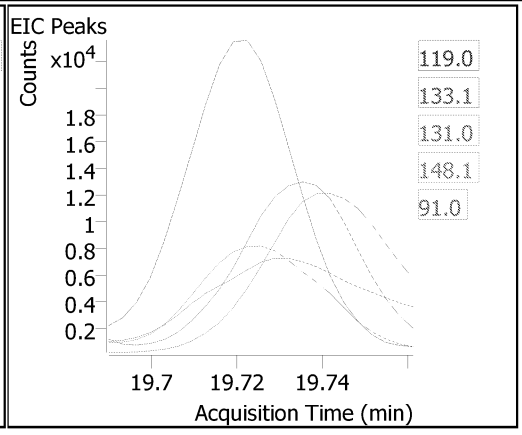
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.7289 | Benzene, 1,3-diethyl-5-methyl- | 507191.3 | 85.6 | 2050-24-0 | C11H16 | 1.063 |

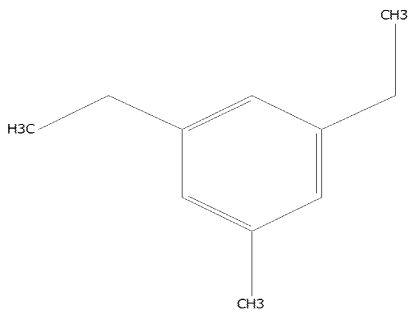


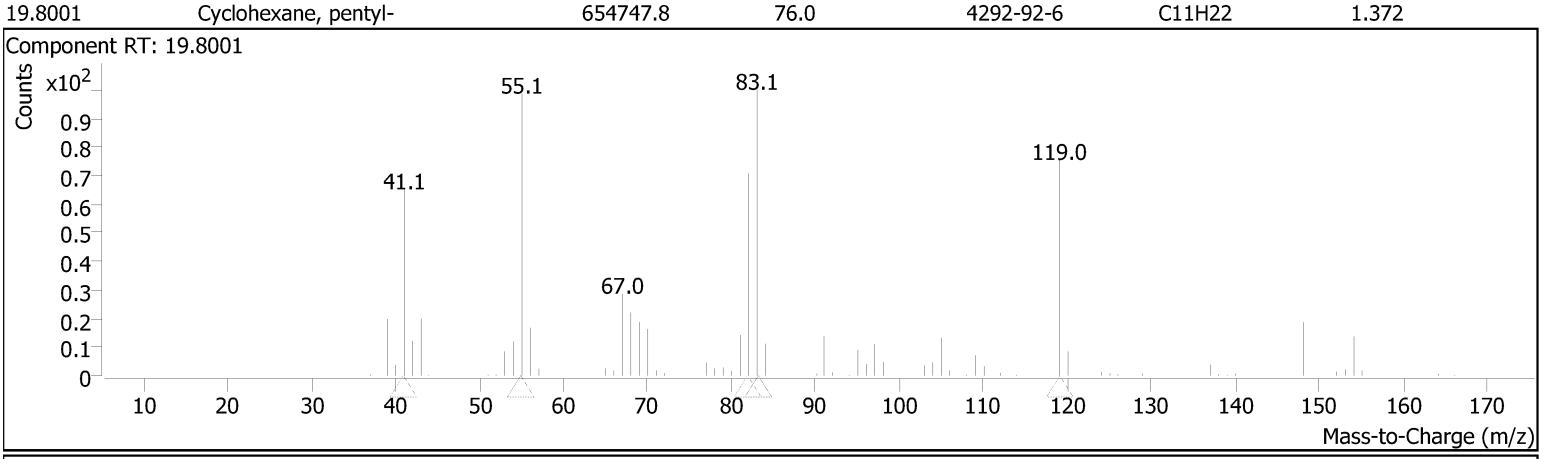



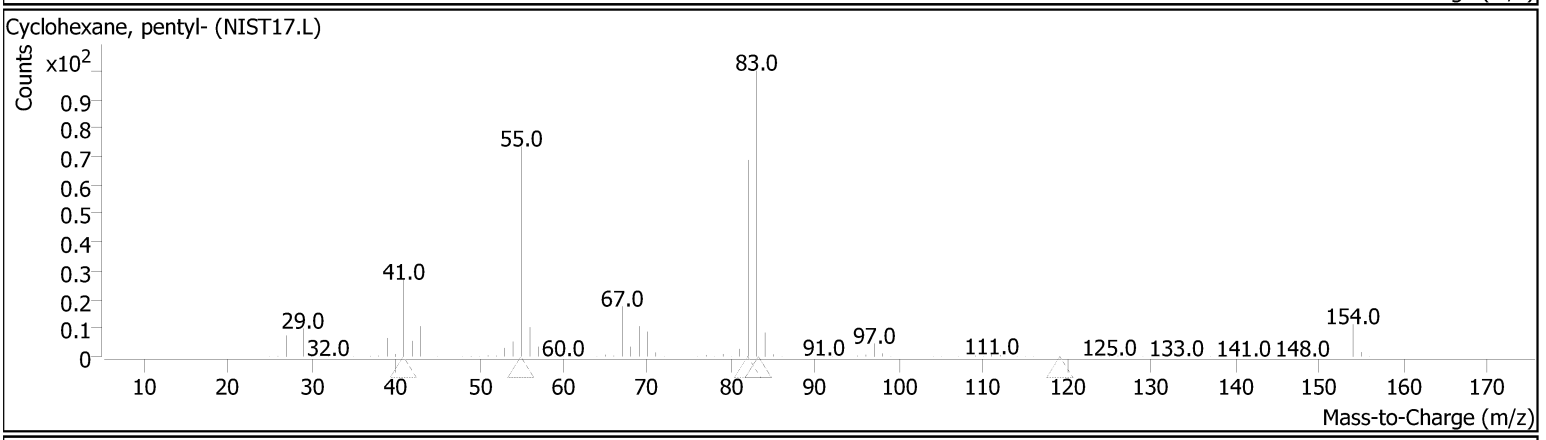



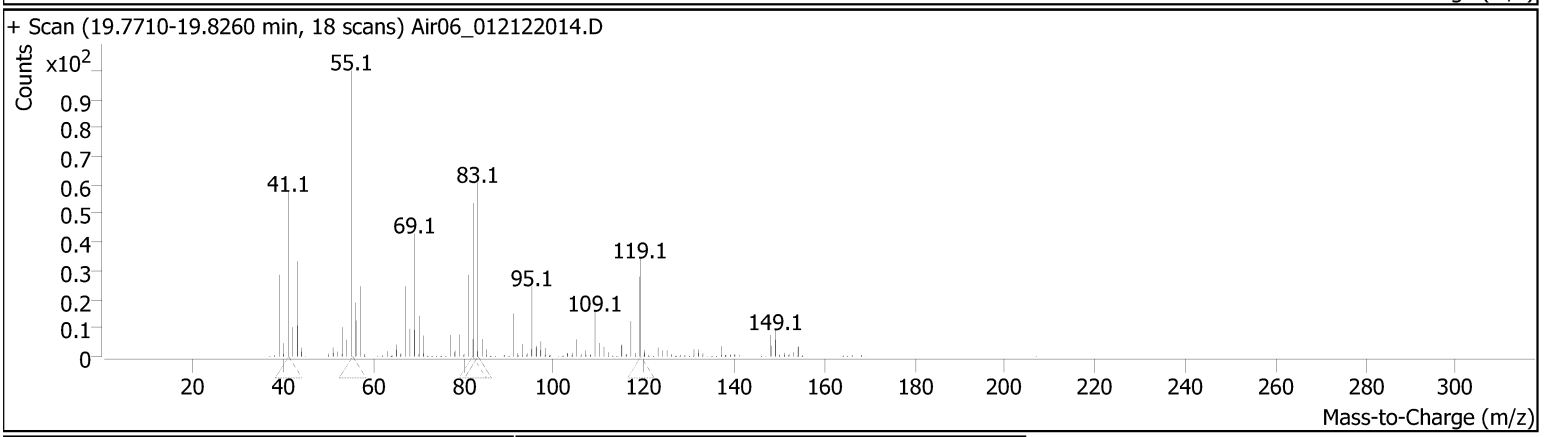



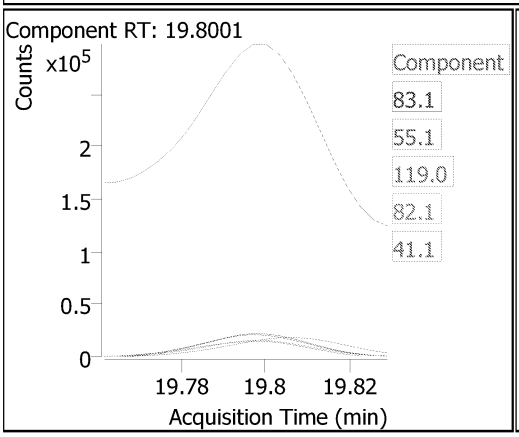



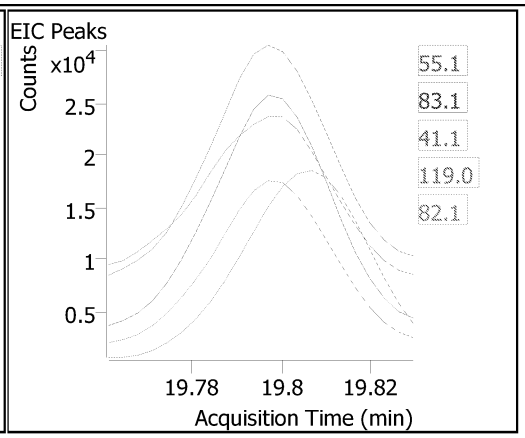
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.8001 | Cyclohexane, pentyl- | 654747.8 | 76.0 | 4292-92-6 | C11H22 | 1.372 |

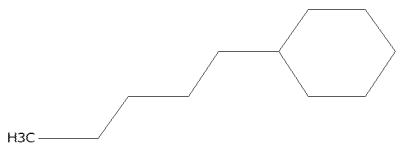


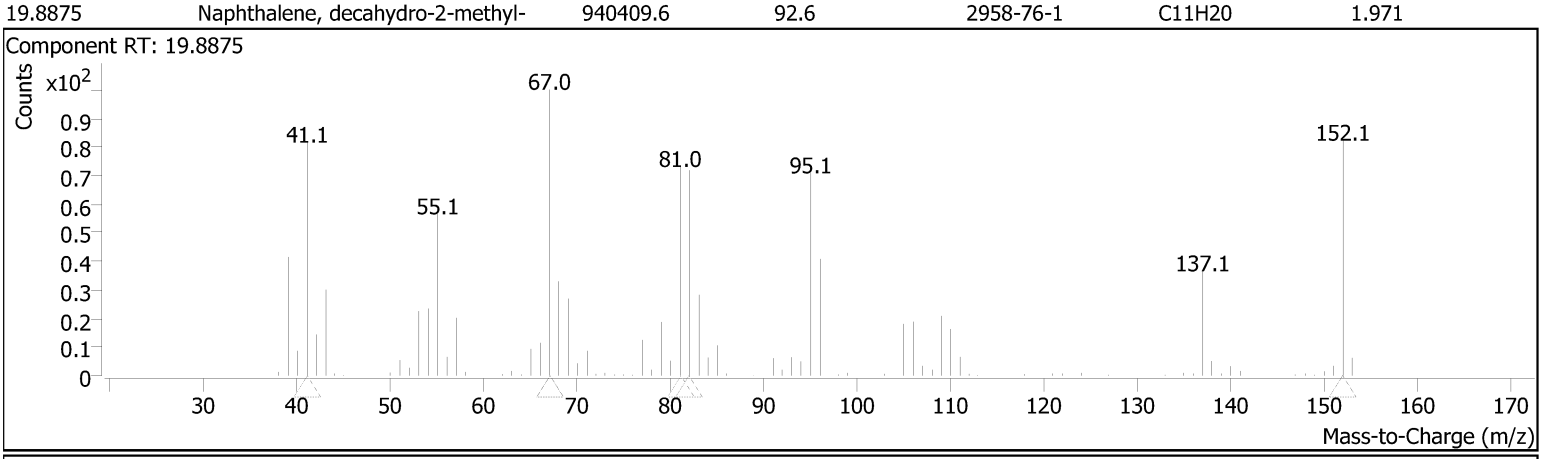



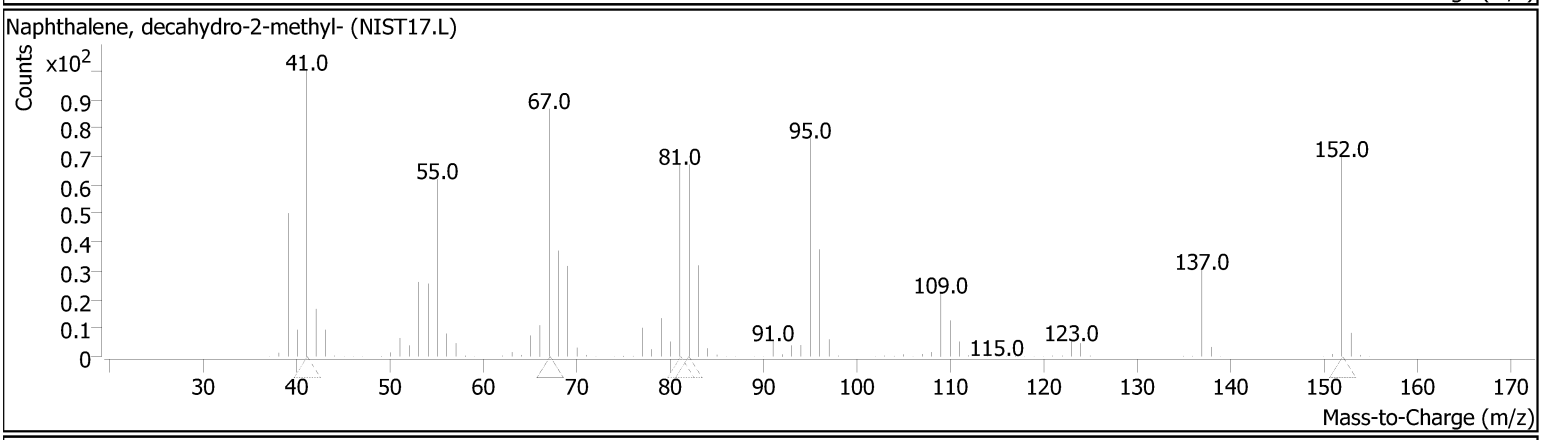



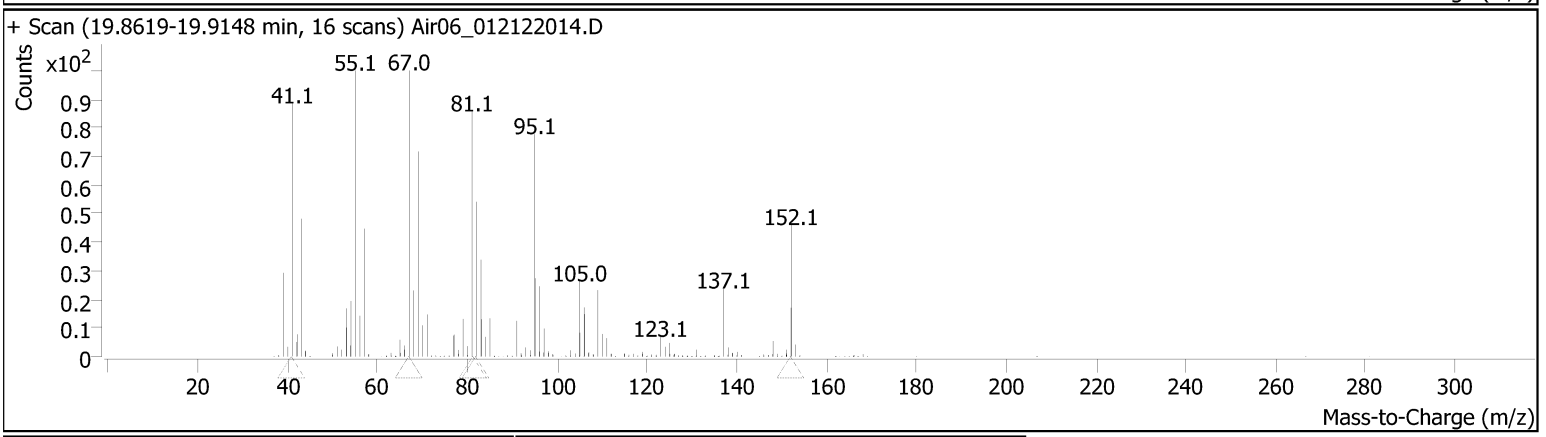



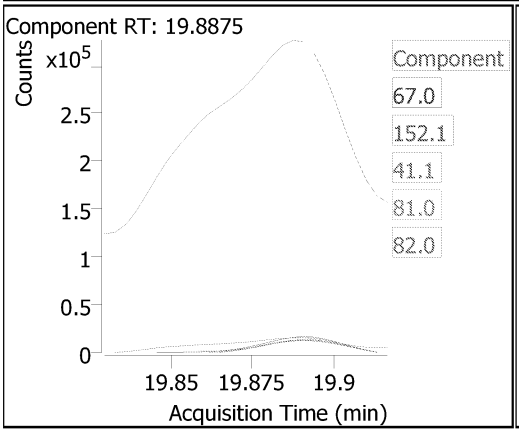



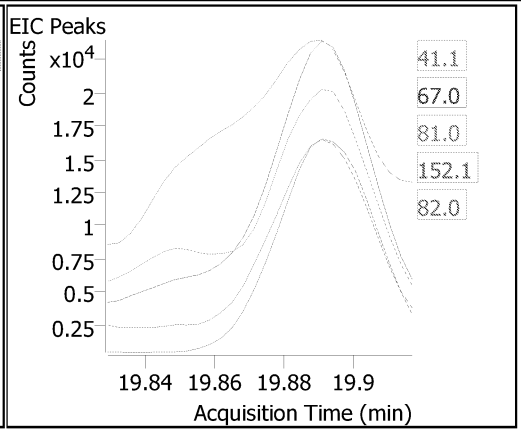
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.8875 | Naphthalene, decahydro-2-methyl- | 940409.6 | 92.6 | 2958-76-1 | C11H20 | 1.971 |

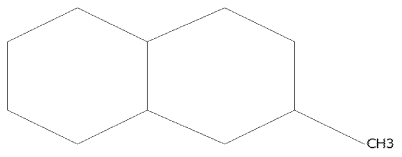


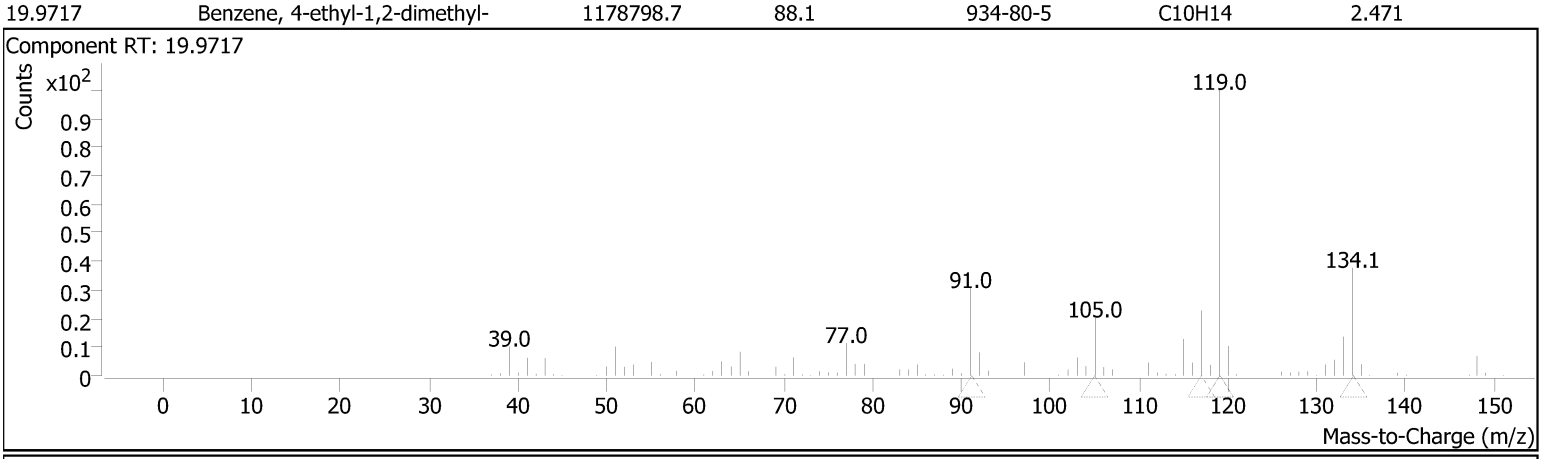



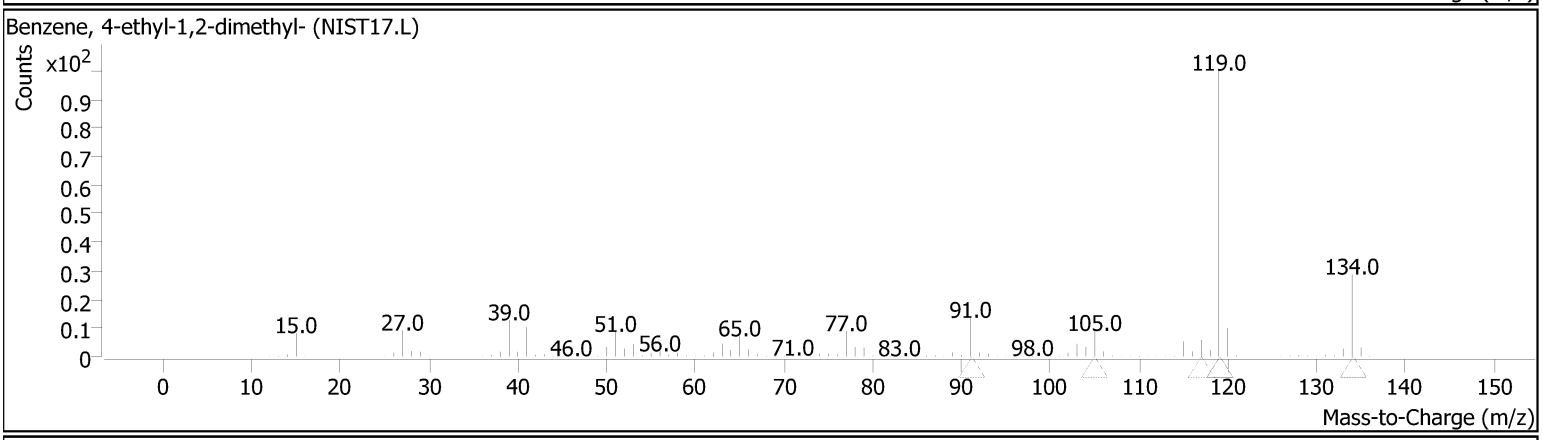



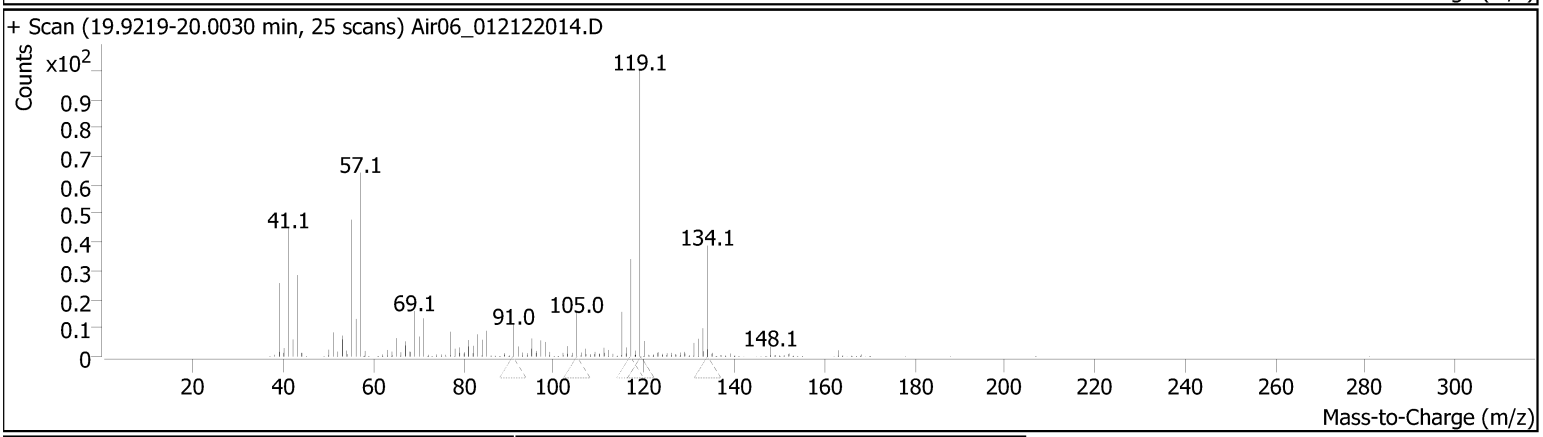



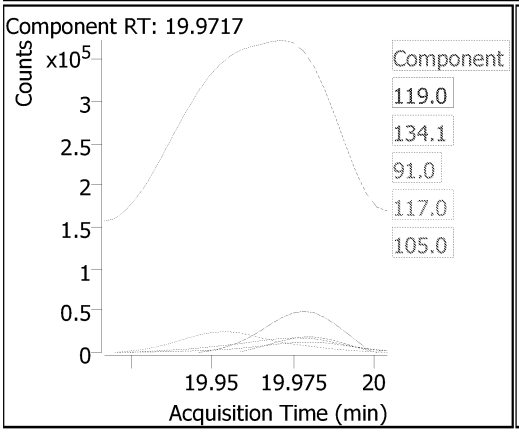



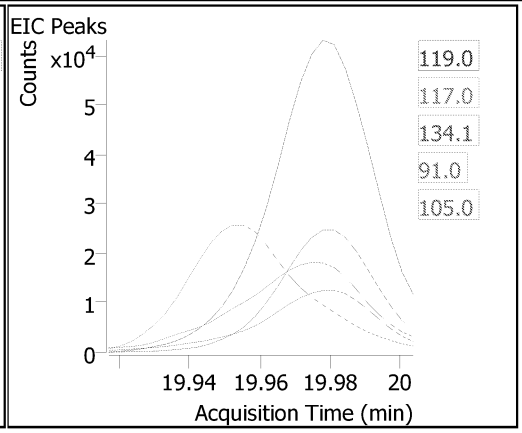
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.9717 | Benzene, 4-ethyl-1,2-dimethyl- | 1178798.7 | 88.1 | 934-80-5 | C10H14 | 2.471 |

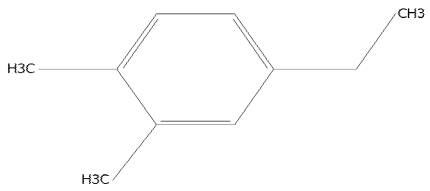


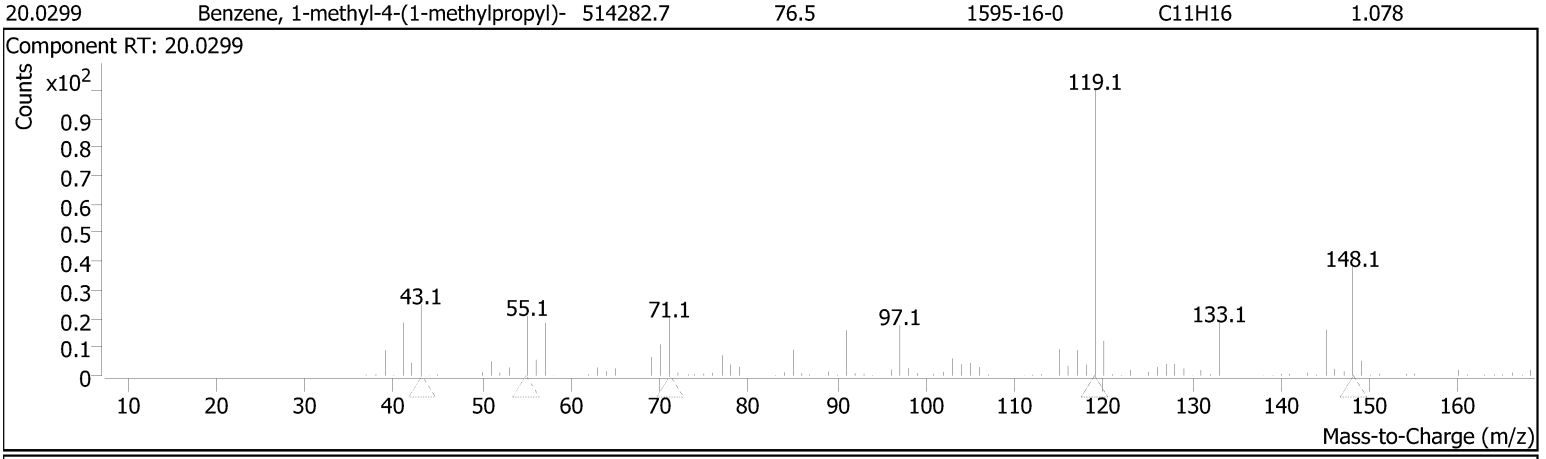



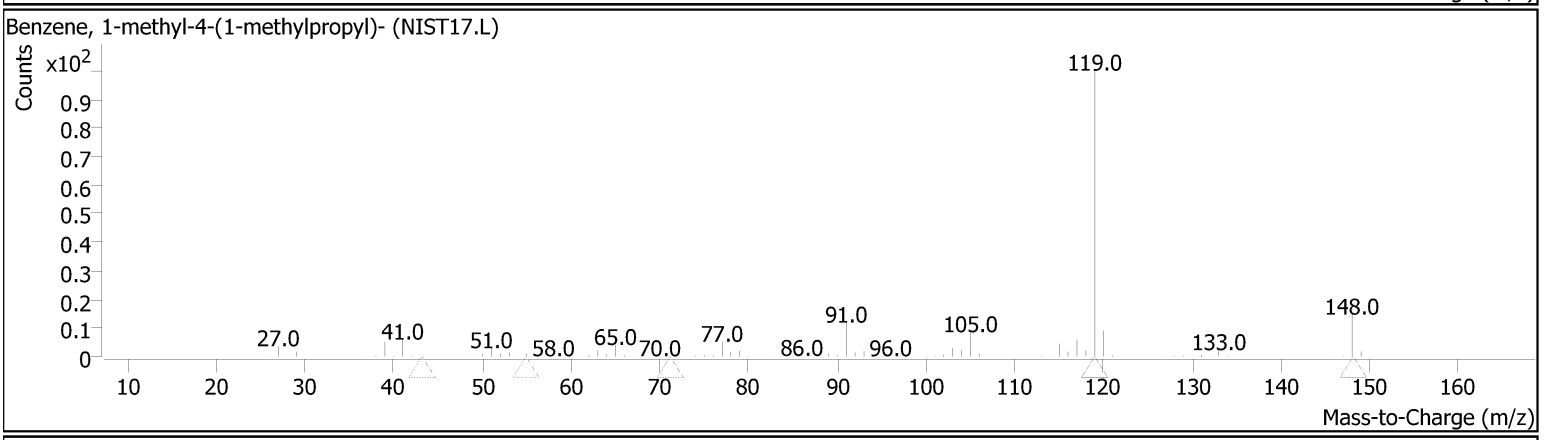



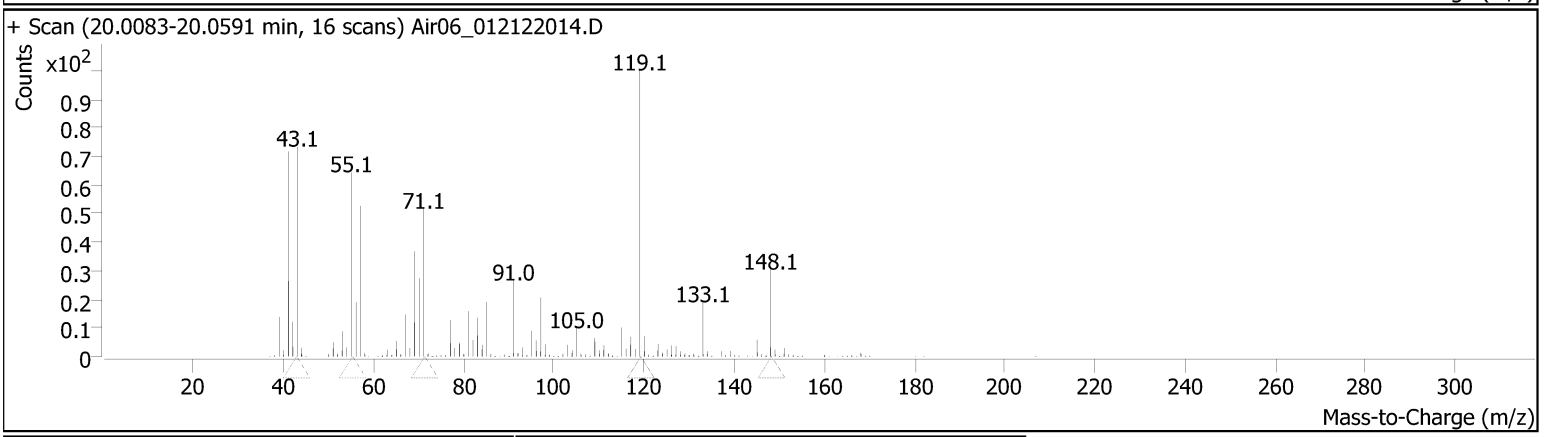



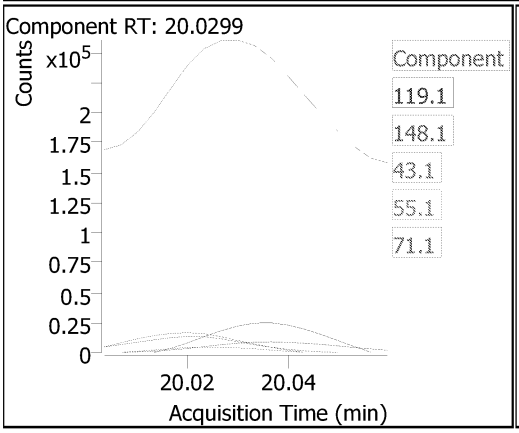



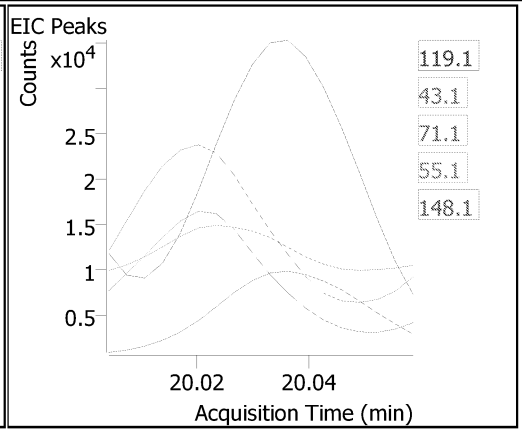
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0299 | Benzene, 1-methyl-4-(1-methylpropyl)- | 514282.7 | 76.5 | 1595-16-0 | C11H16 | 1.078 |

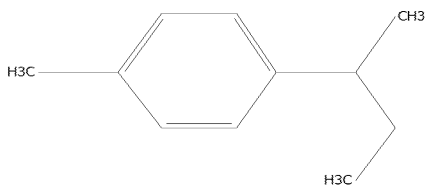


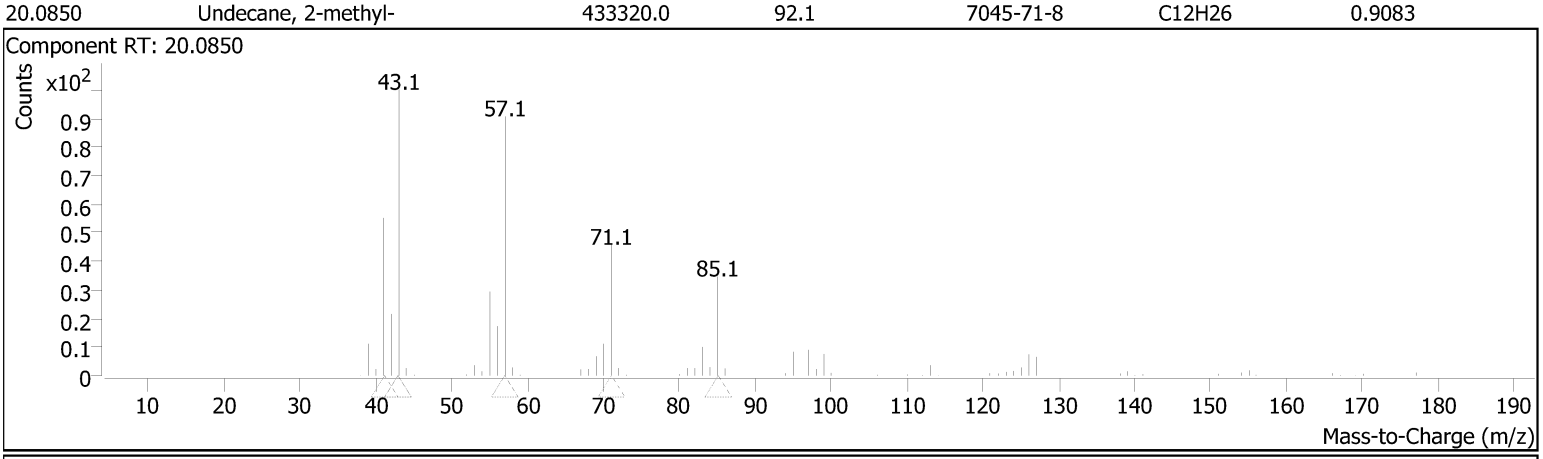



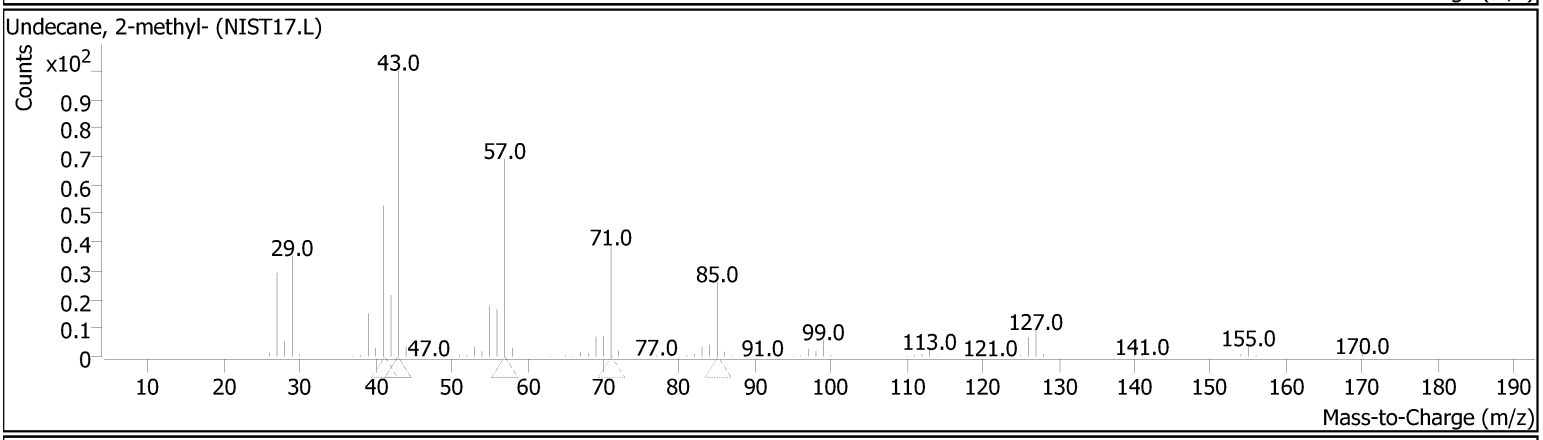



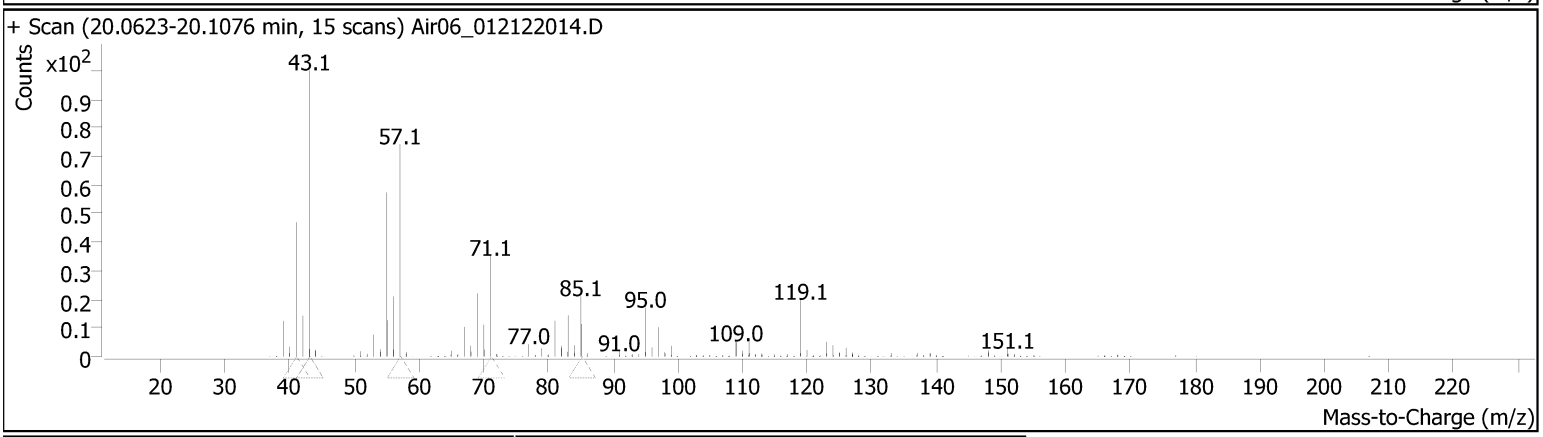



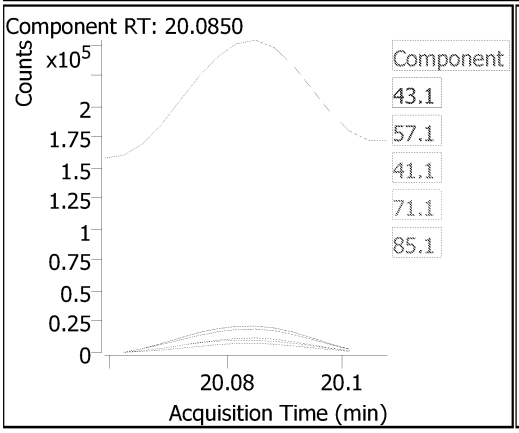



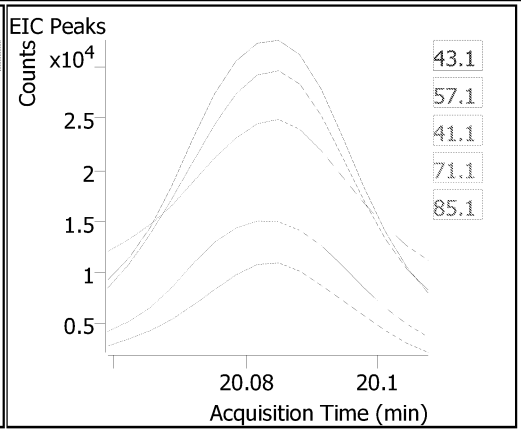
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0850 | Undecane, 2-methyl- | 433320.0 | 92.1 | 7045-71-8 | C12H26 | 0.9083 |



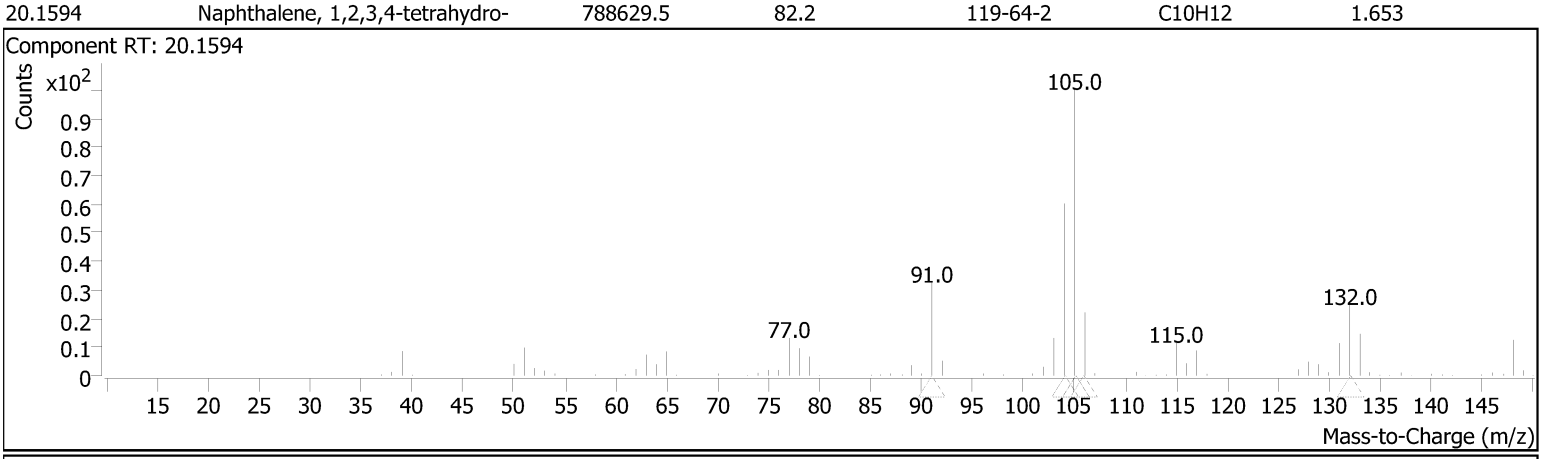



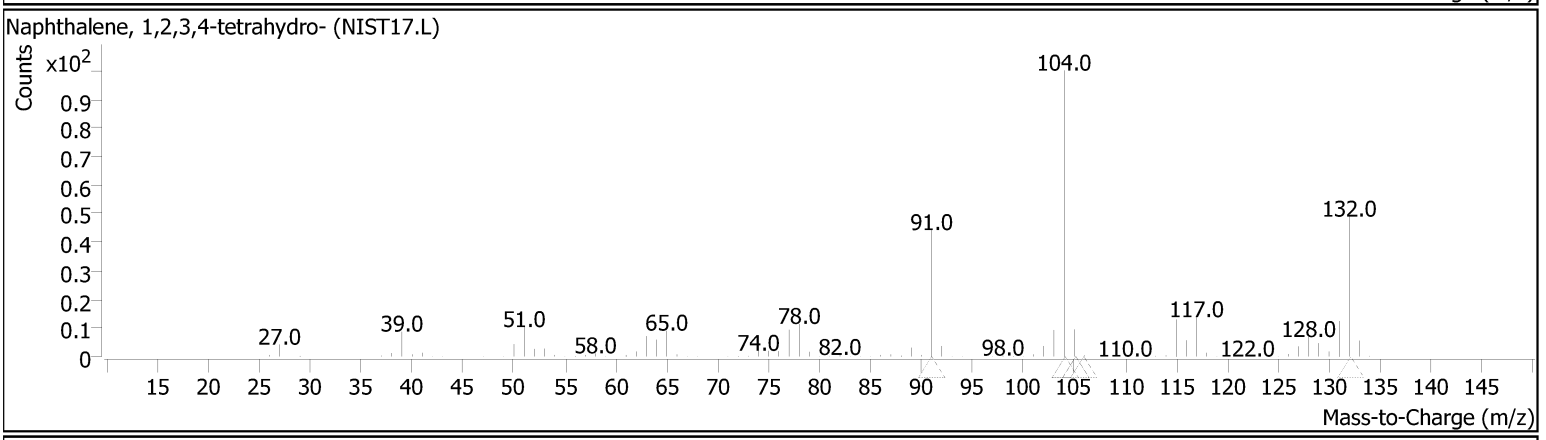


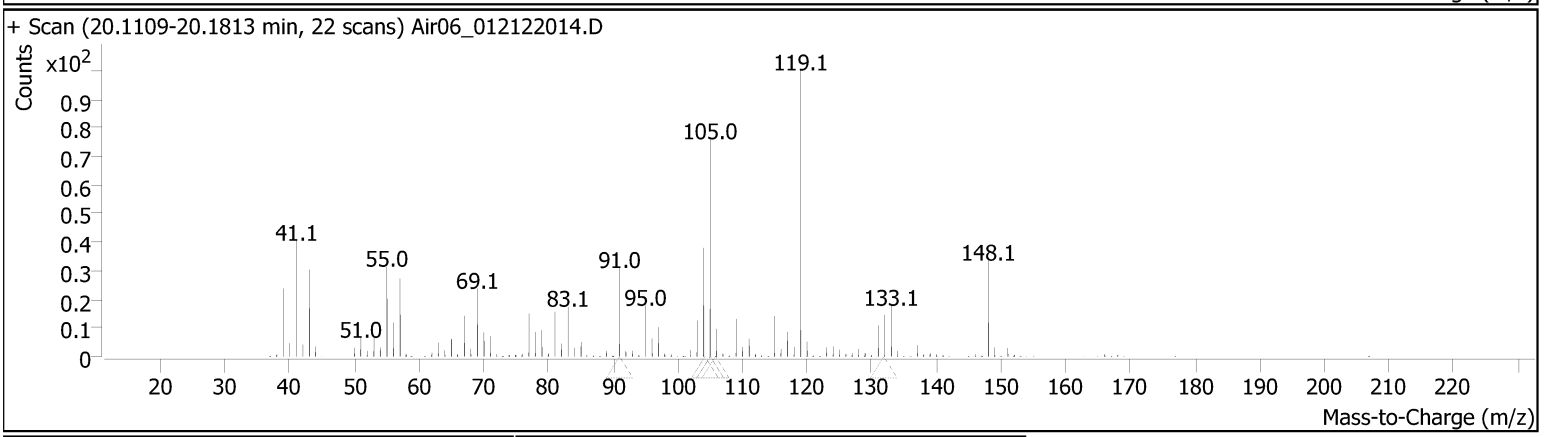

# Library Search Results - NonTarget Hits with Details

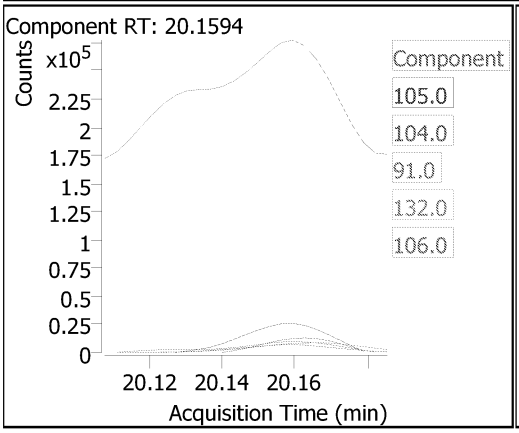
Agilent Technologies

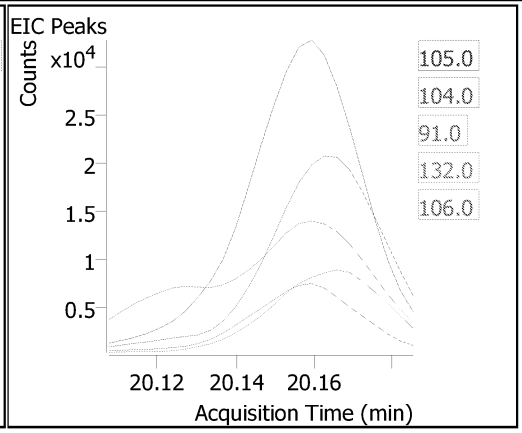
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.1594 | Naphthalene, 1,2,3,4-tetrahydro- | 788629.5 | 82.2 | 119-64-2 | C10H12 | 1.653 |

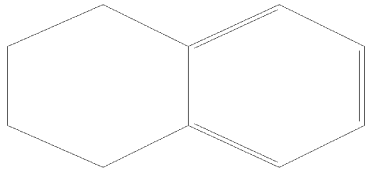


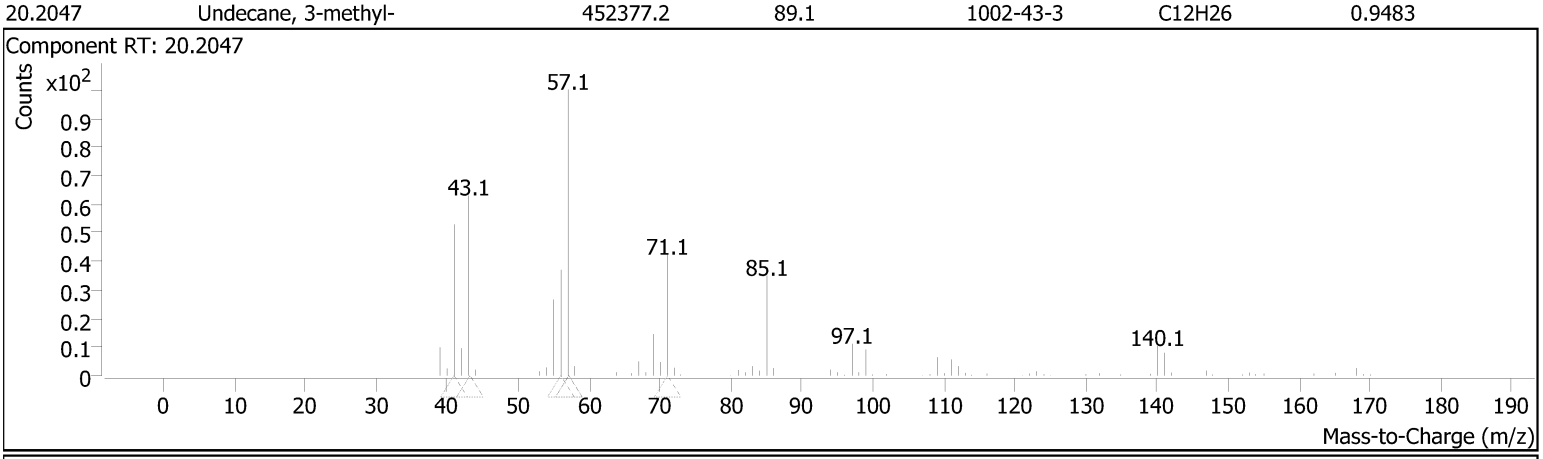



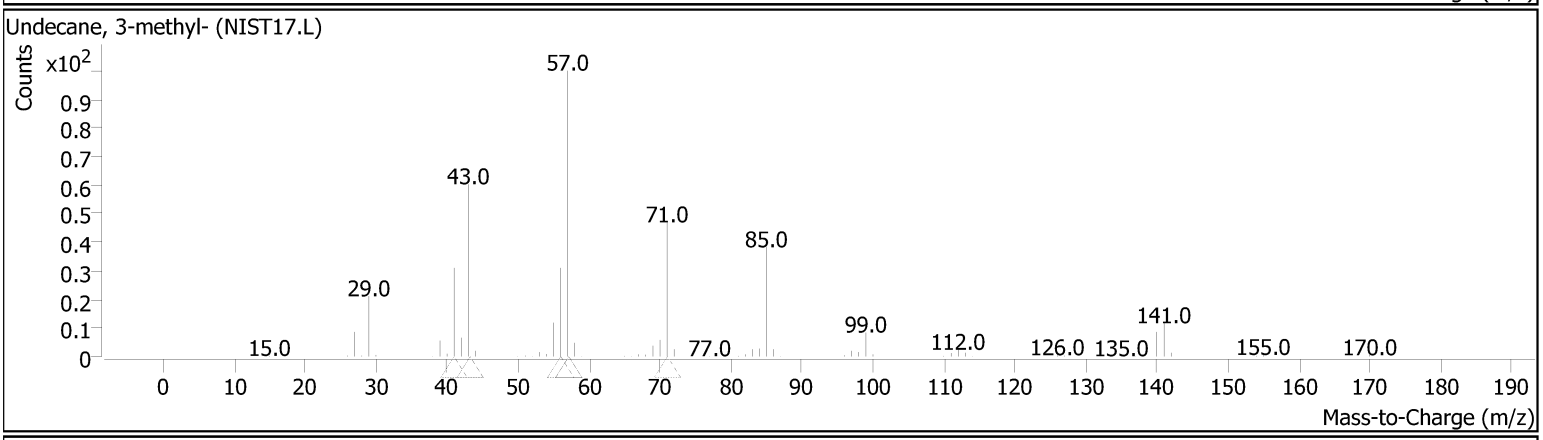



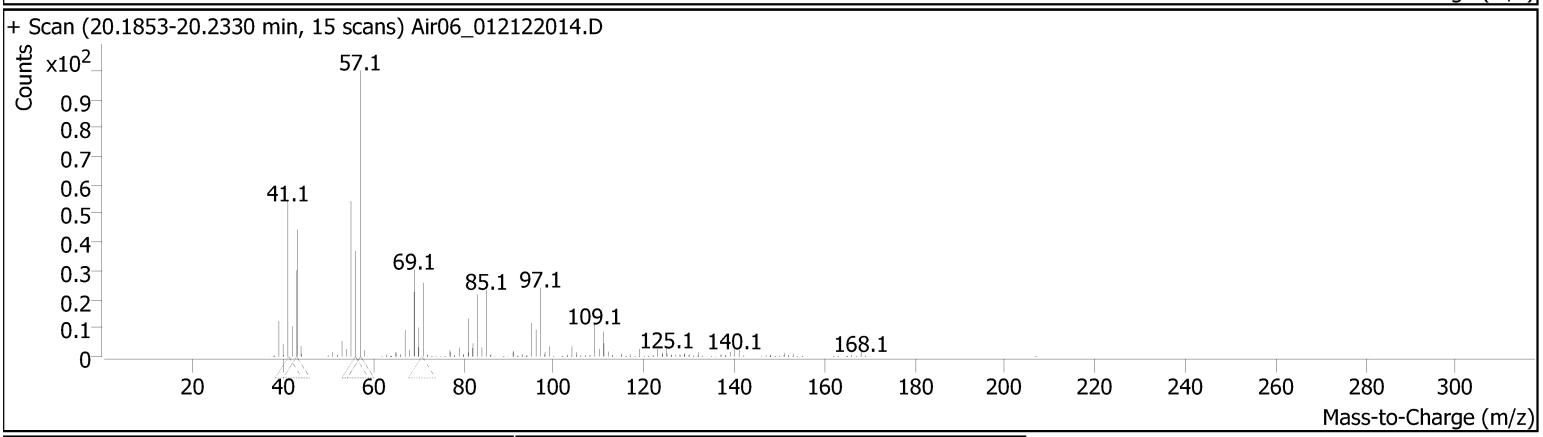



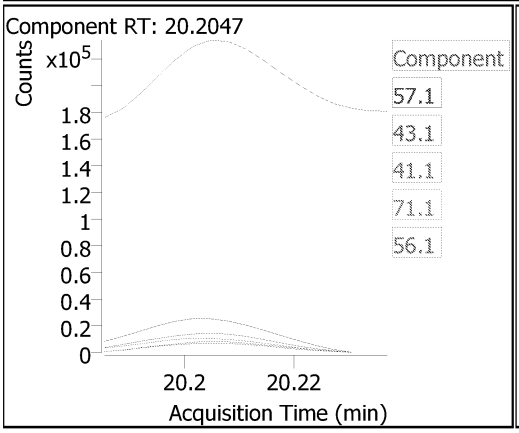



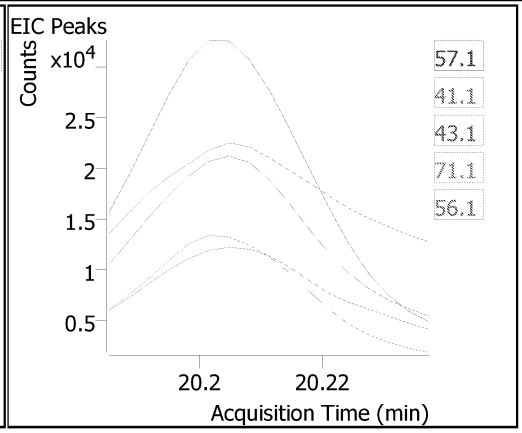
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.2047 | Undecane, 3-methyl- | 452377.2 | 89.1 | 1002-43-3 | C12H26 | 0.9483 |

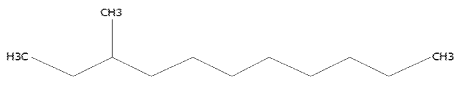


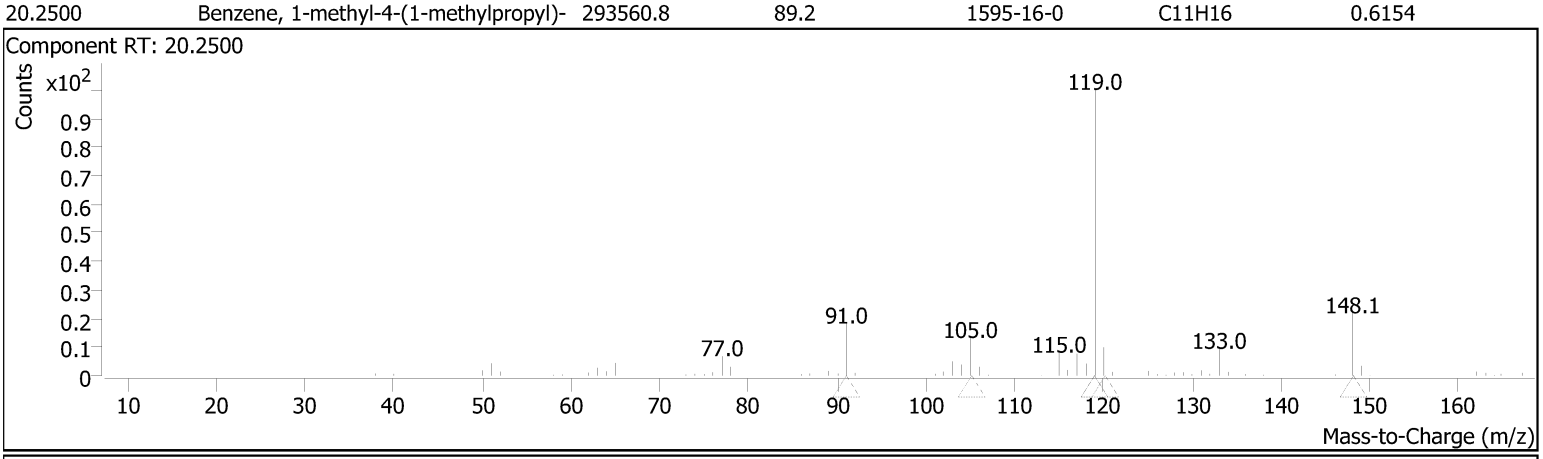



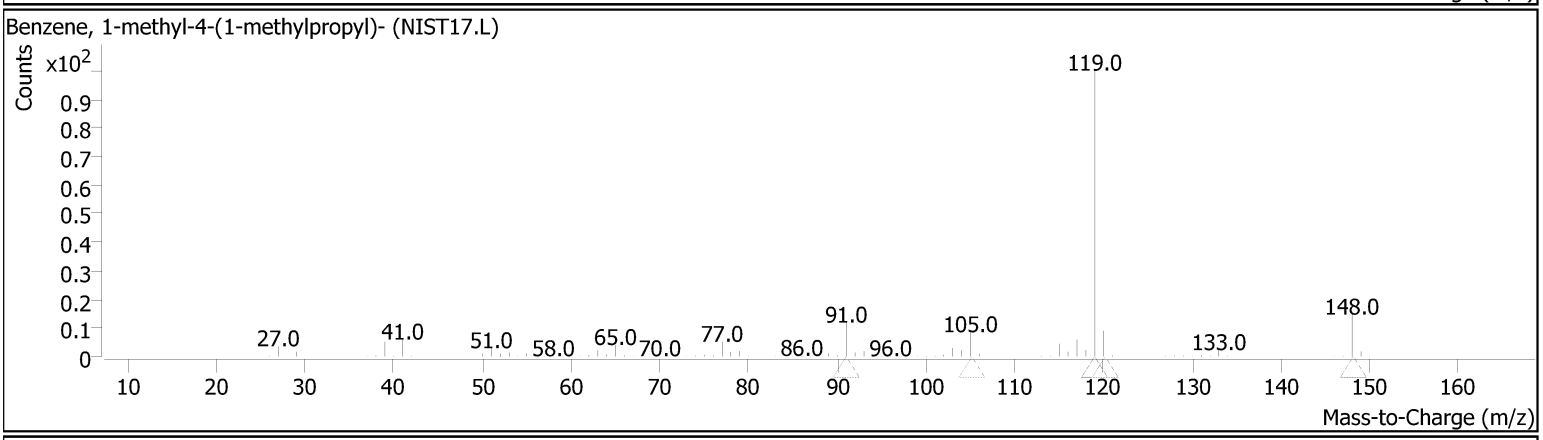



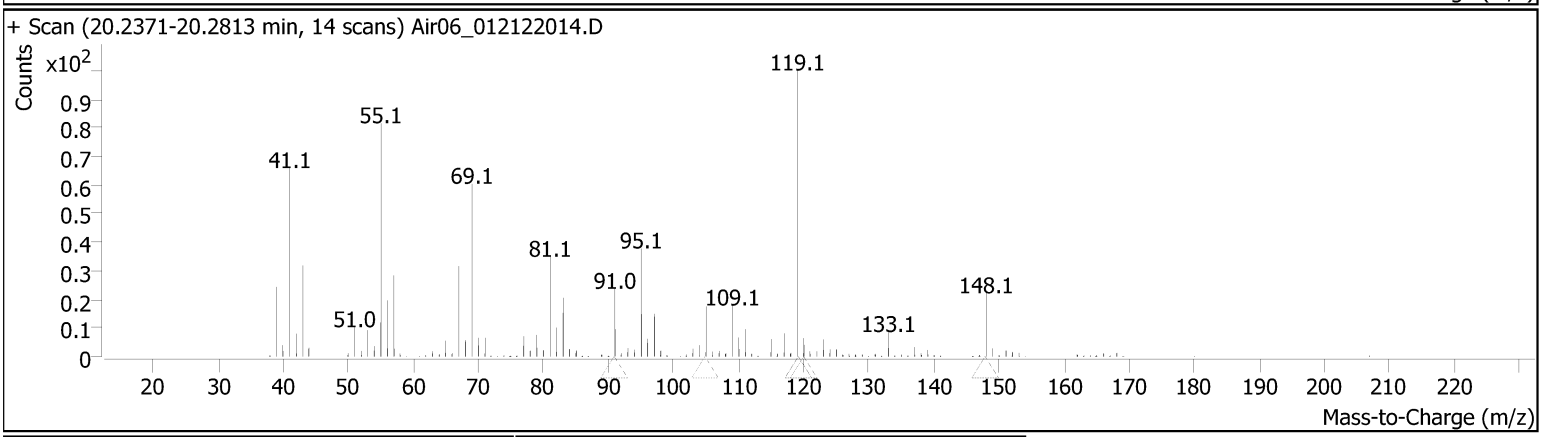



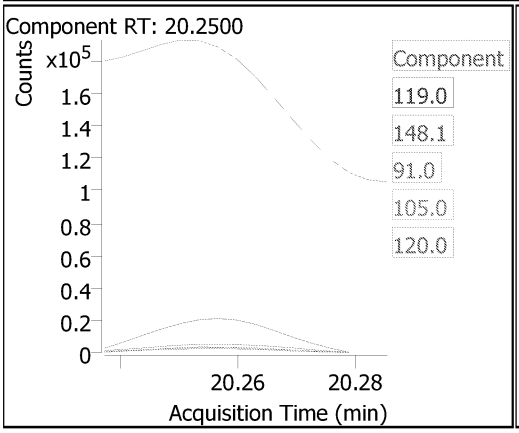



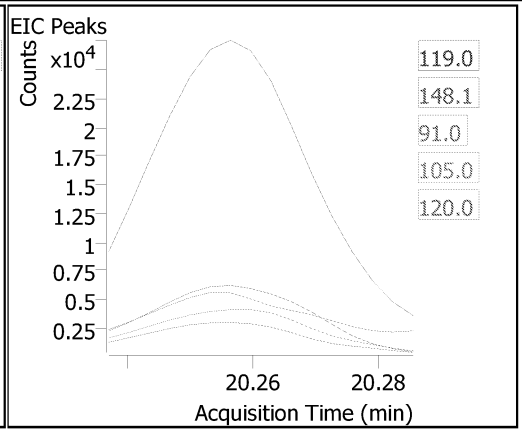
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.2500 | Benzene, 1-methyl-4-(1-methylpropyl)- | 293560.8 | 89.2 | 1595-16-0 | C11H16 | 0.6154 |

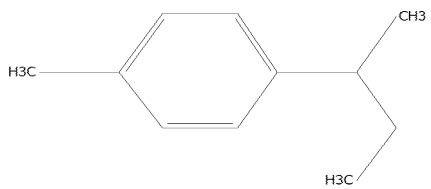


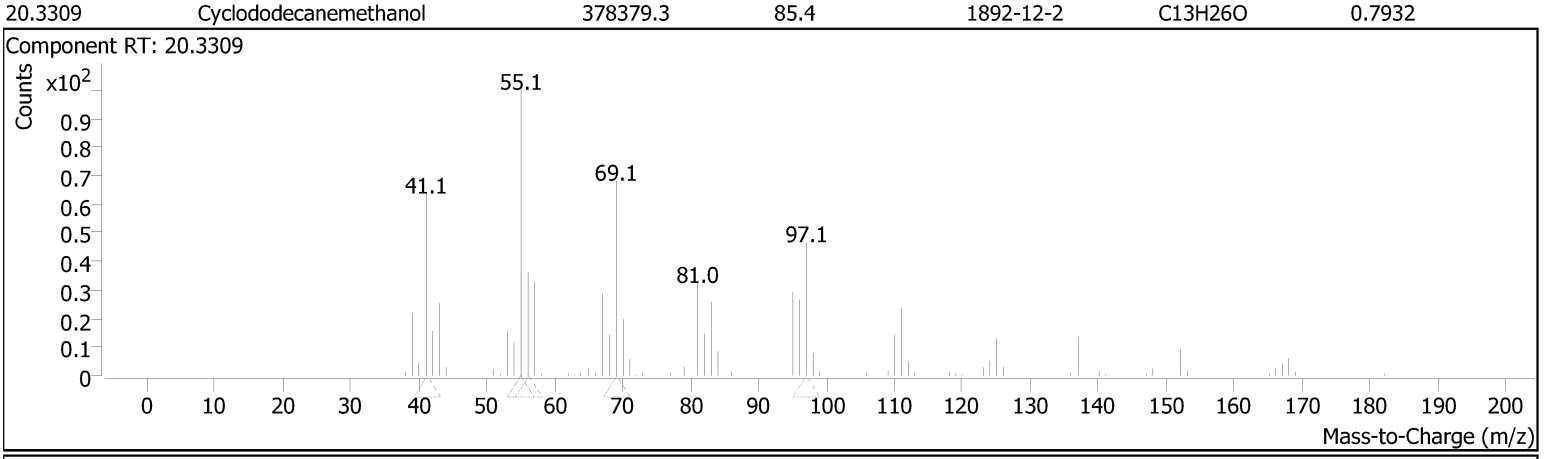



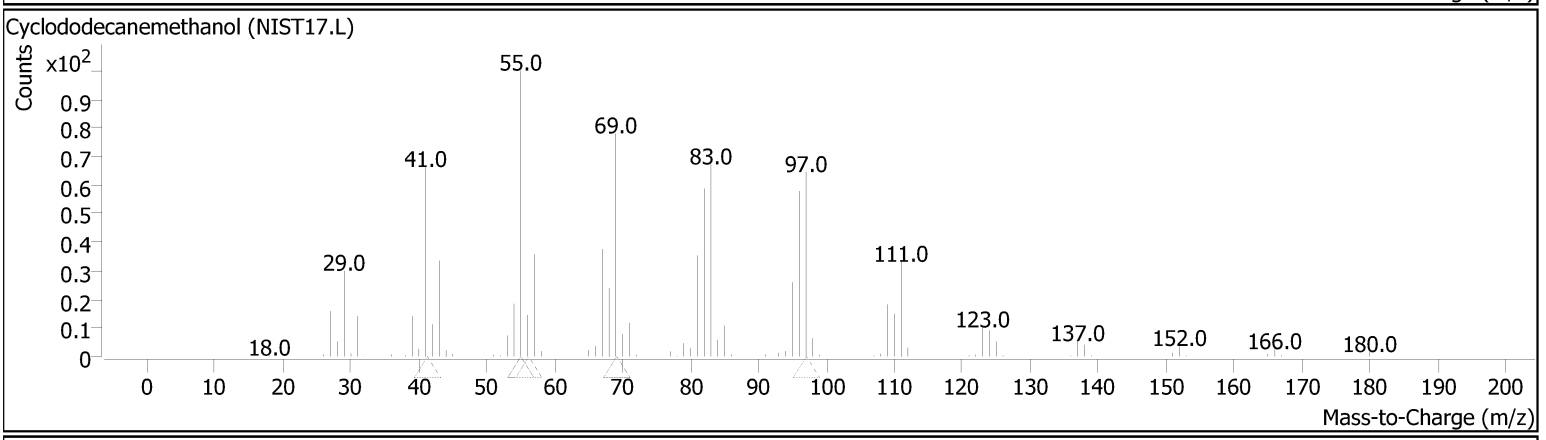



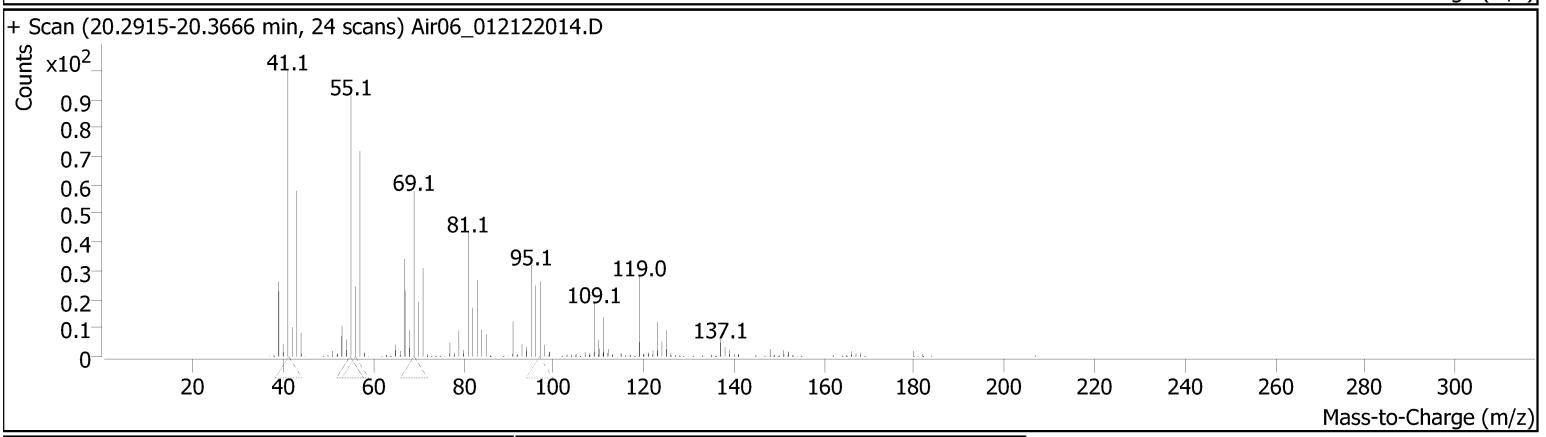



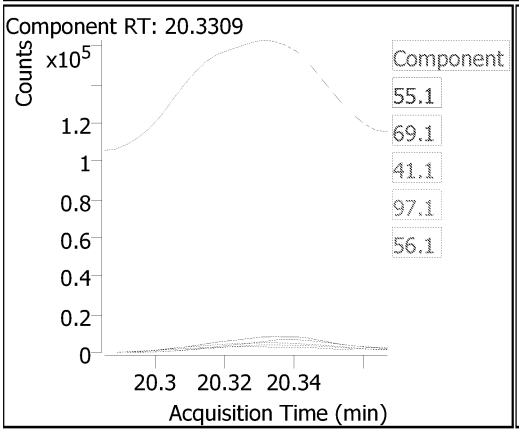



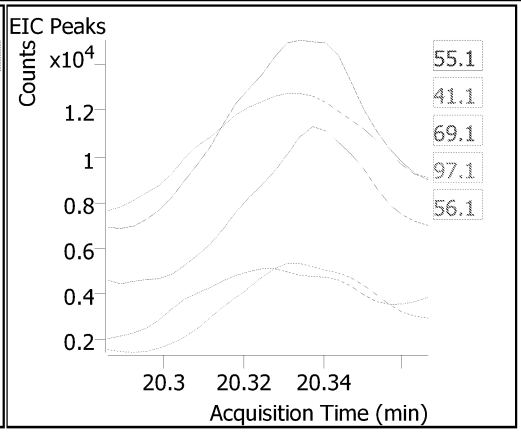
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3309 | Cyclododecanemethanol | 378379.3 | 85.4 | 1892-12-2 | C13H26O | 0.7932 |

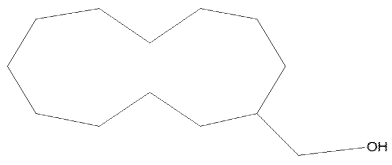


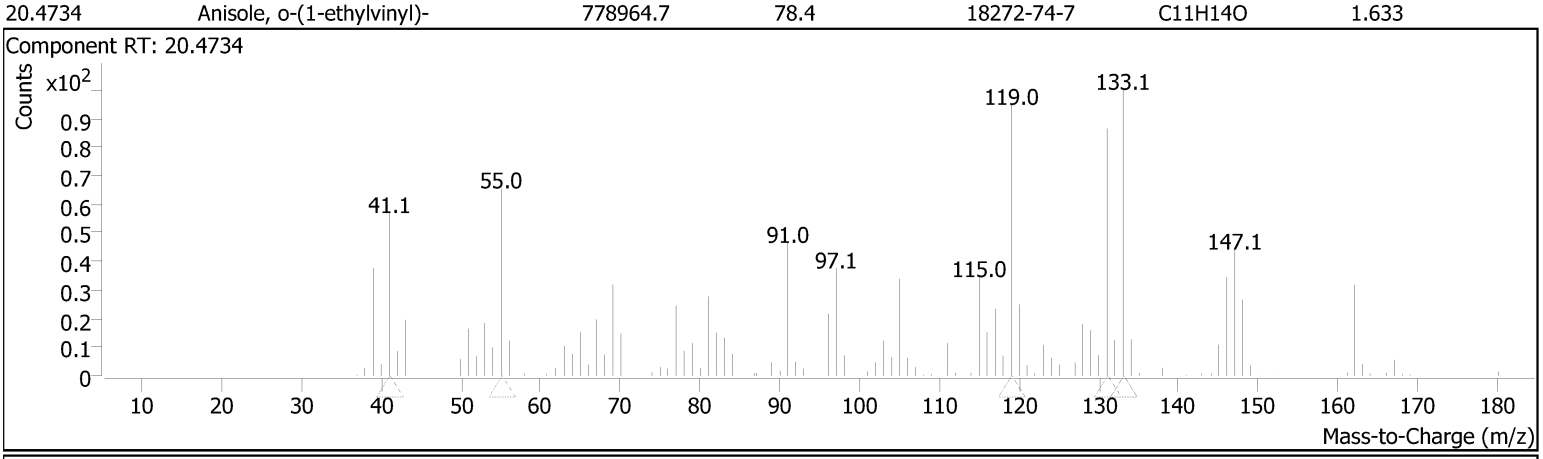



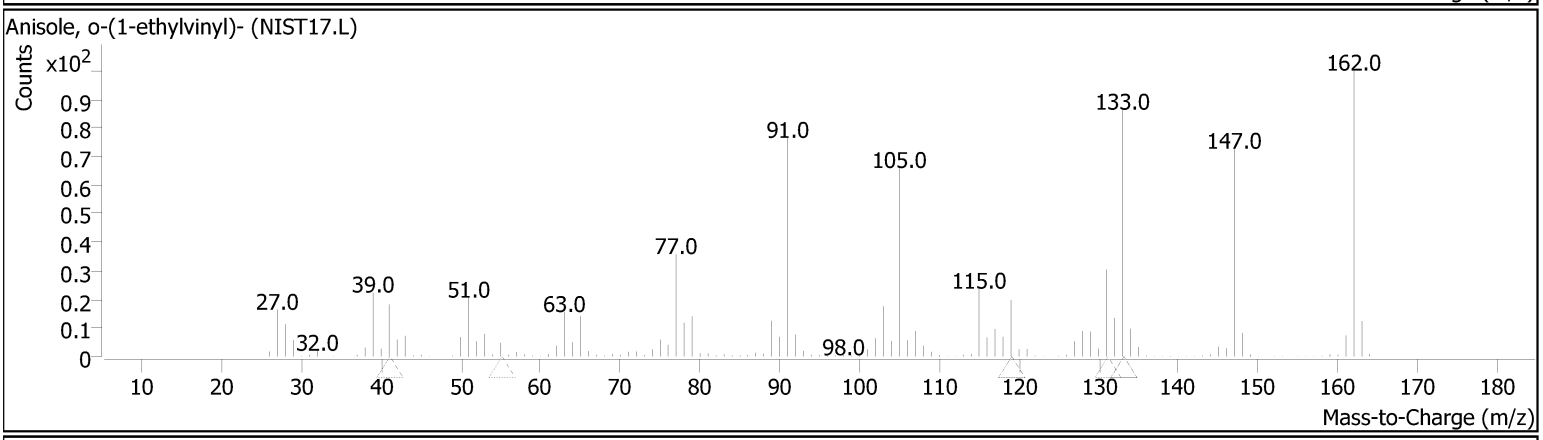



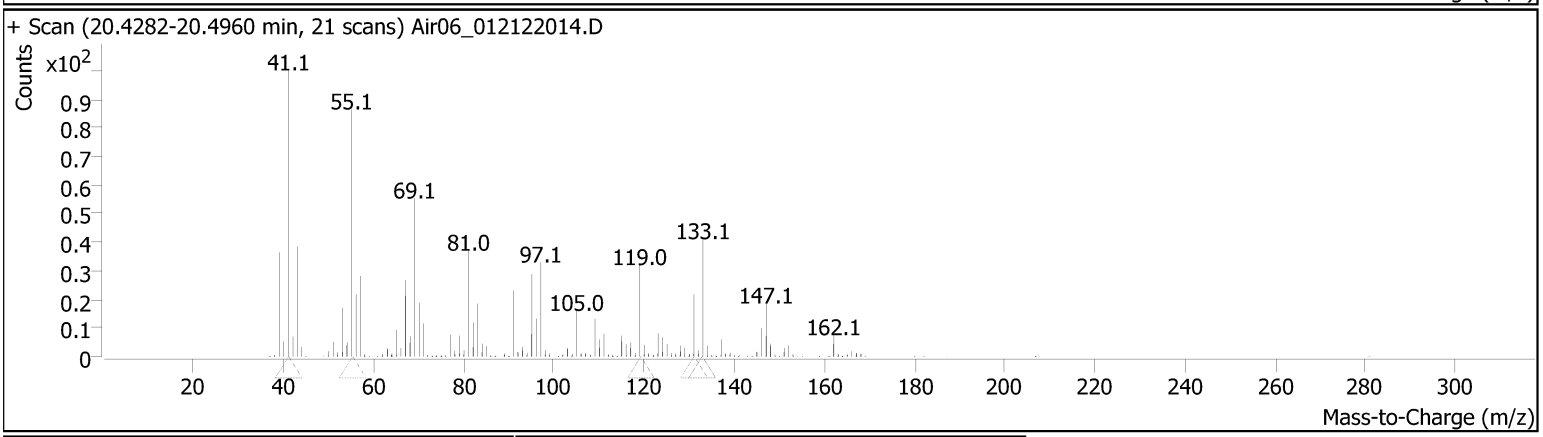



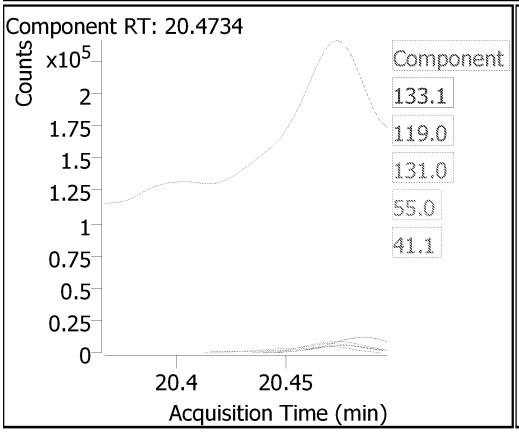



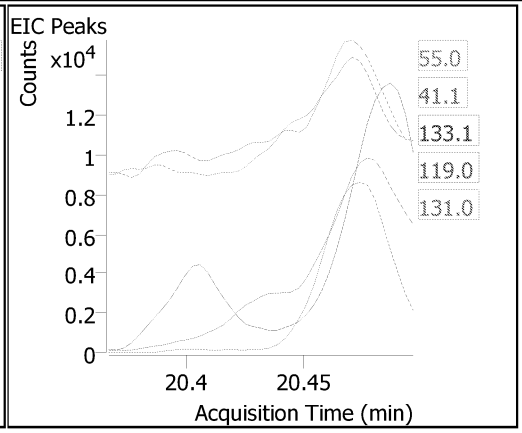
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.4734 | Anisole, o-(1-ethylvinyl)- | 778964.7 | 78.4 | 18272-74-7 | C11H14O | 1.633 |

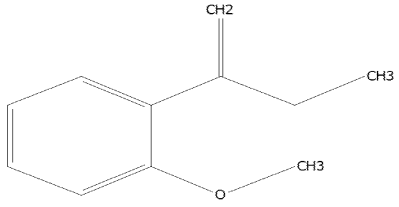


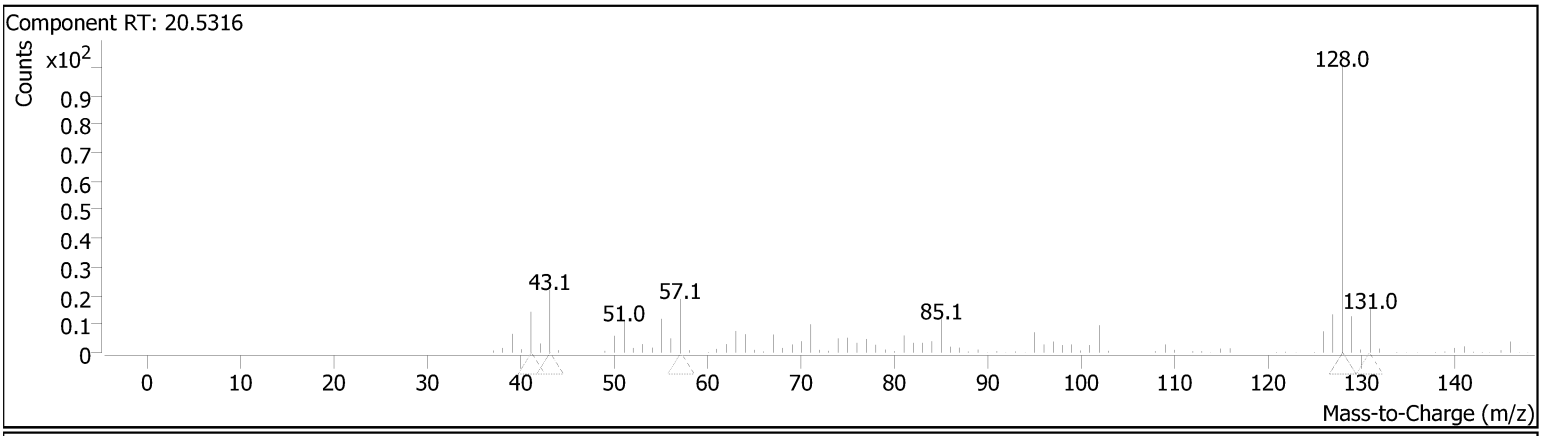



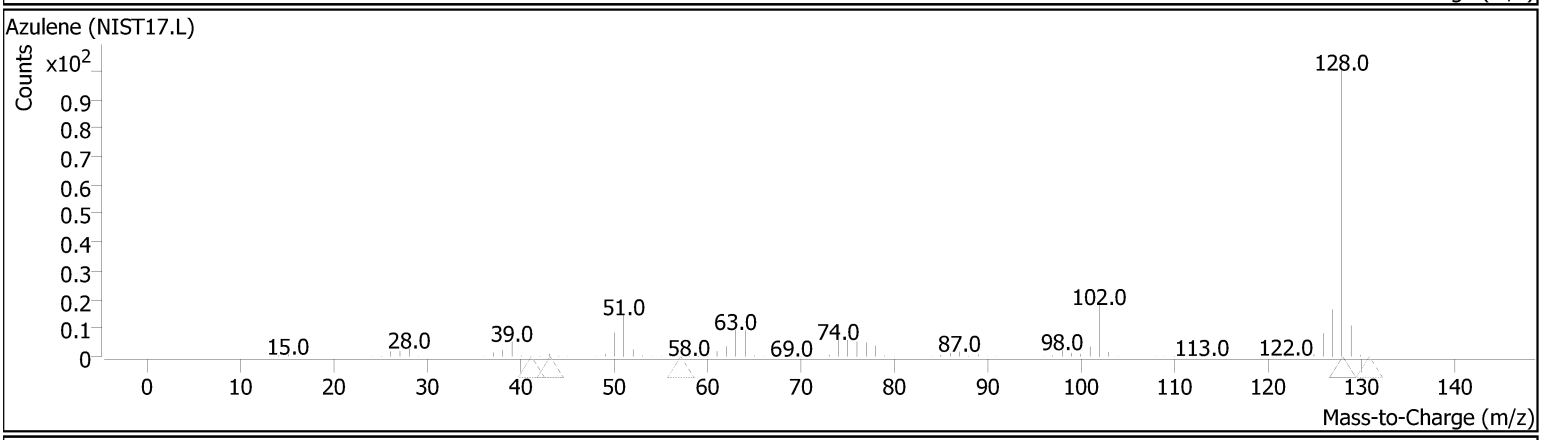



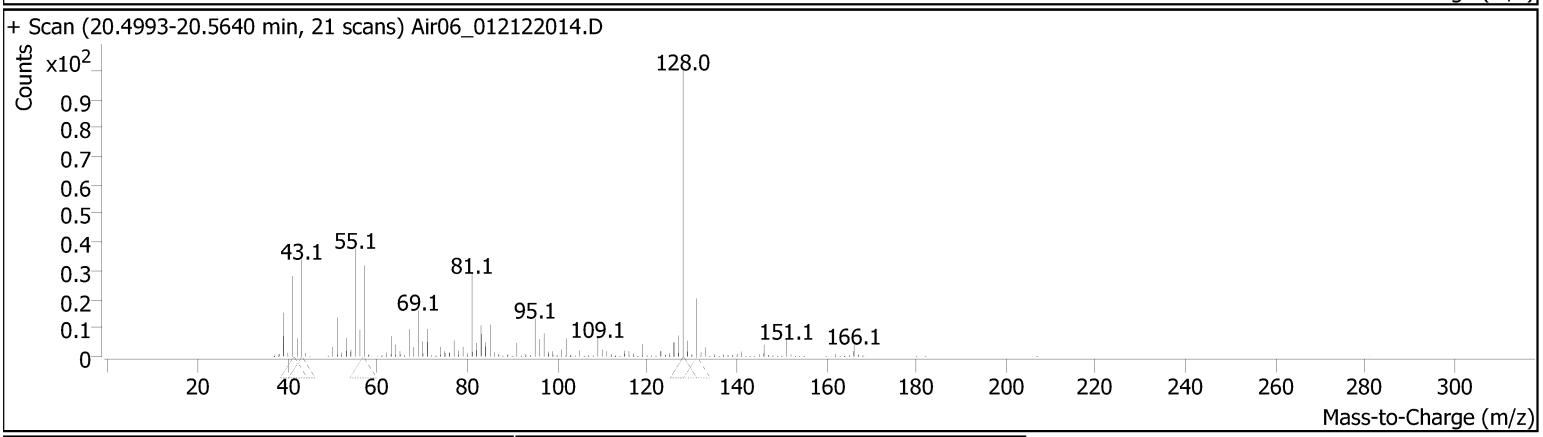



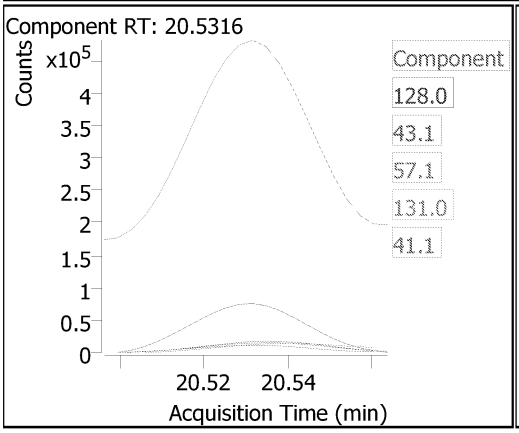



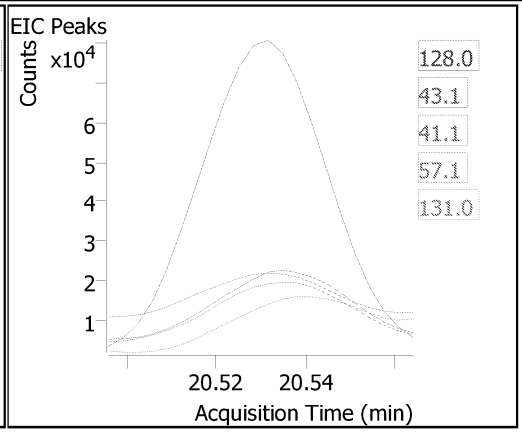
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.5316 | Azulene | 1053872.4 | 73.8 | 275-51-4 | C10H8 | 2.209 |

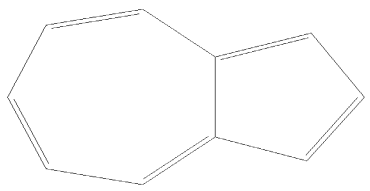


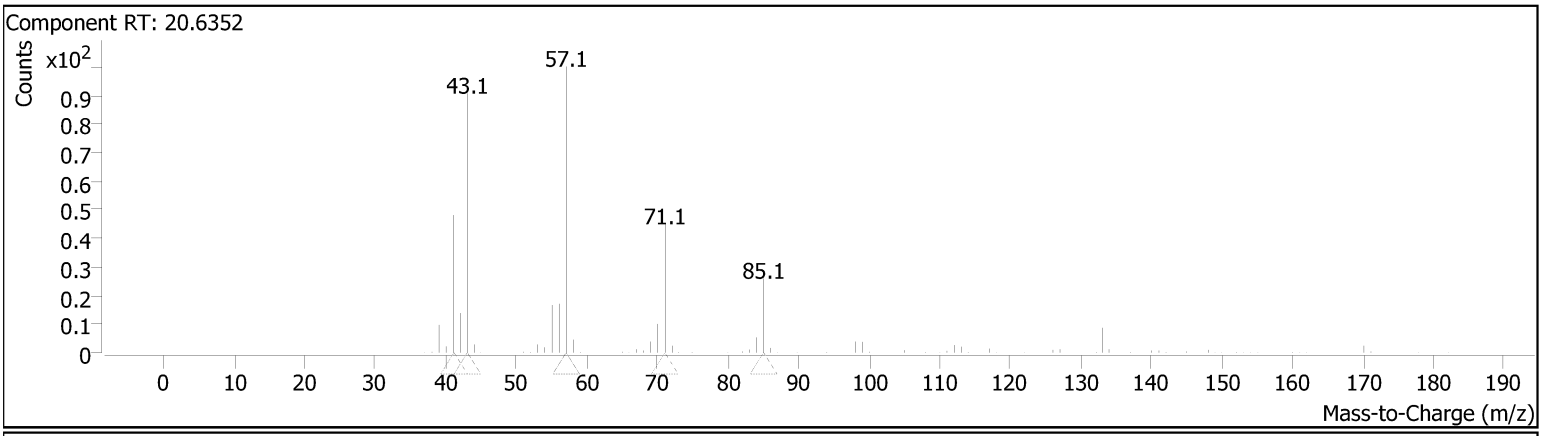



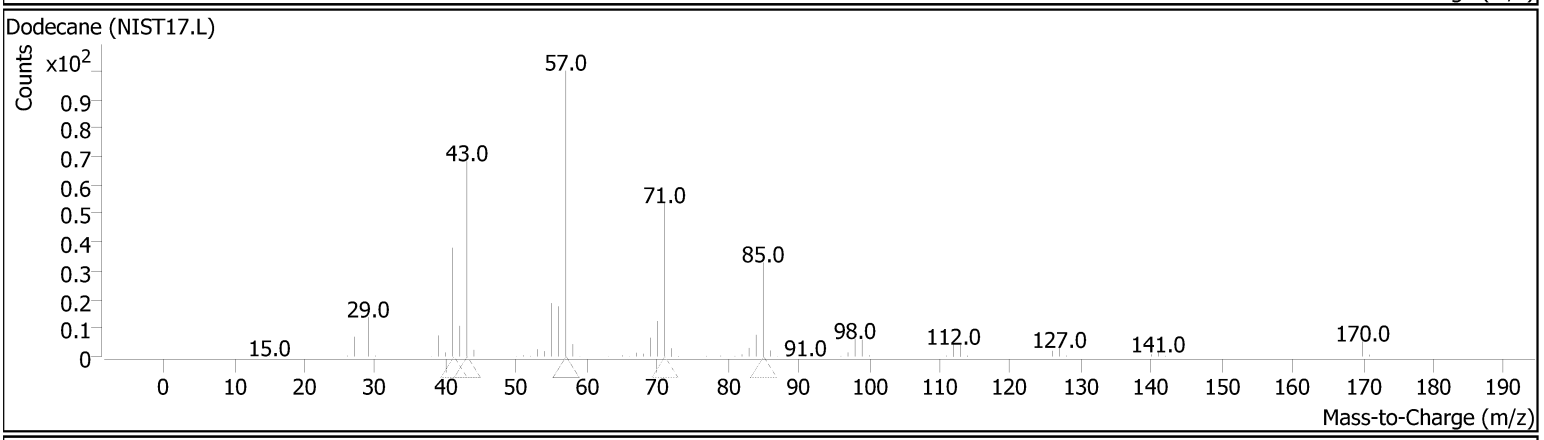



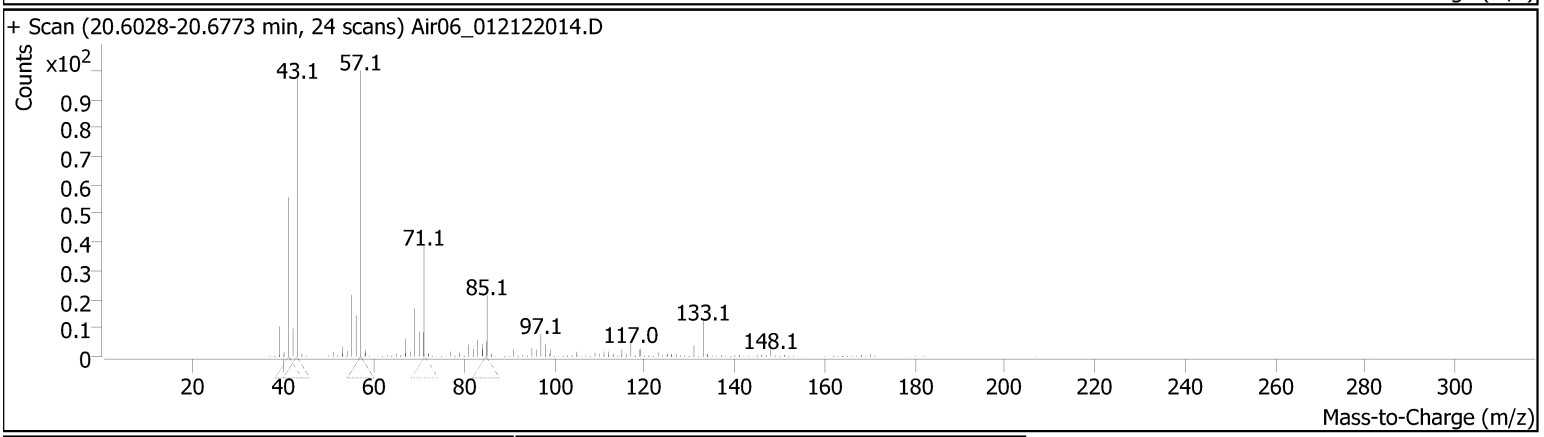
# Library Search Results - NonTarget Hits with Details

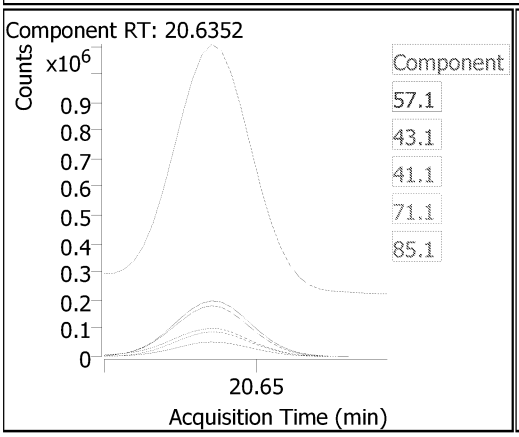
Agilent Technologies

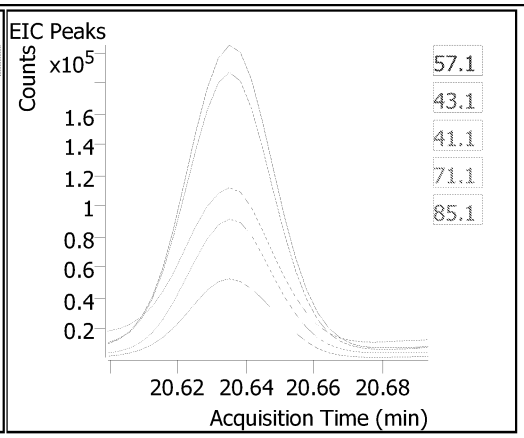
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.6352 | Dodecane | 2559302.0 | 91.6 | 112-40-3 | C12H26 | 5.365 |



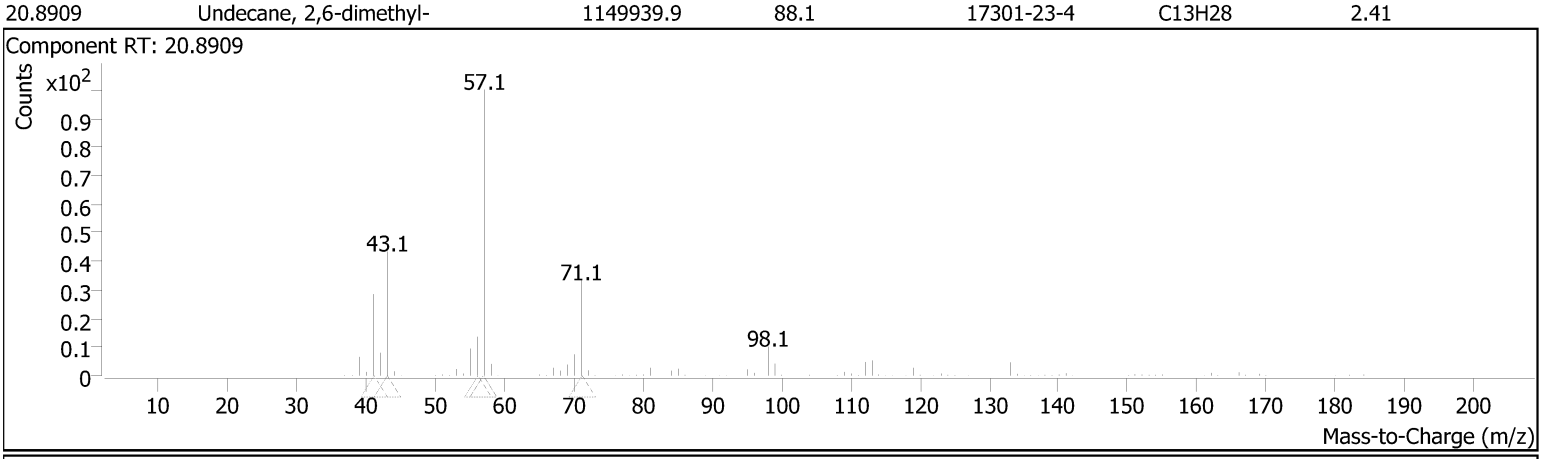



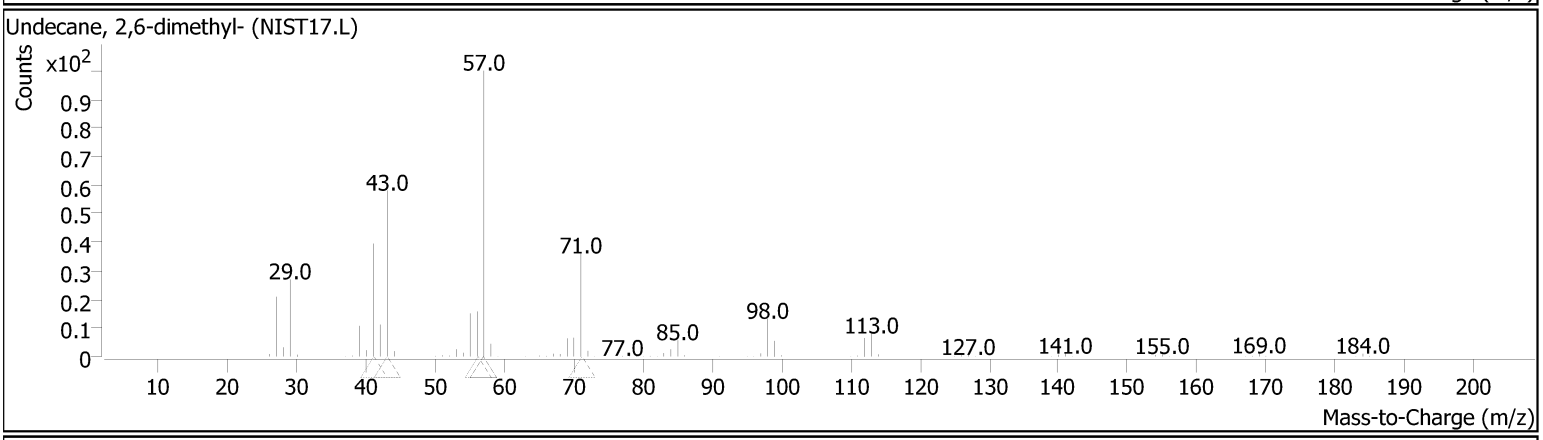


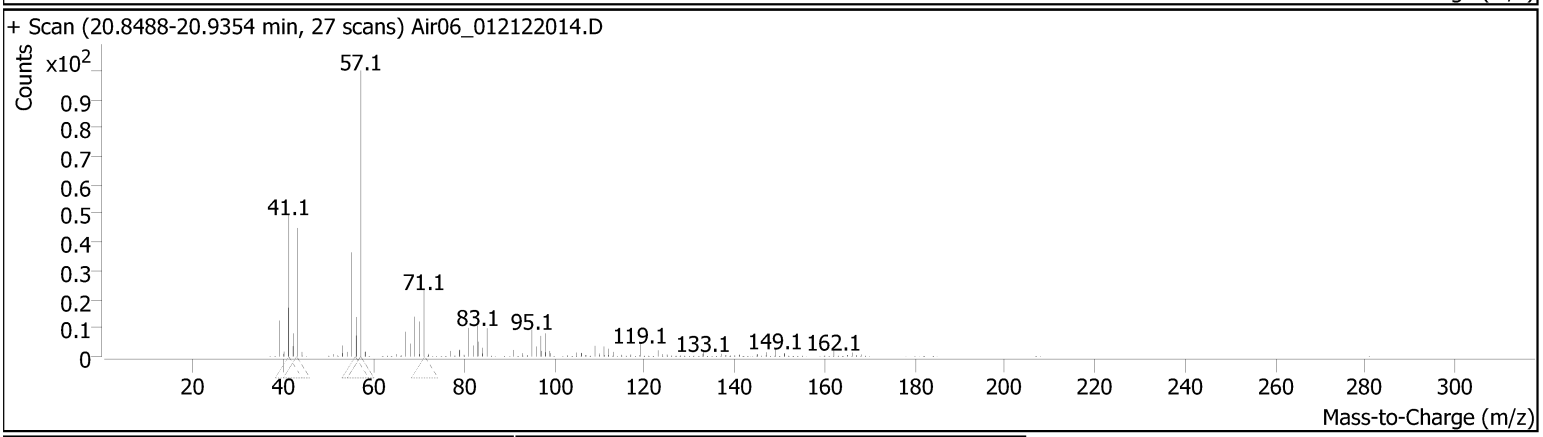

# Library Search Results - NonTarget Hits with Details

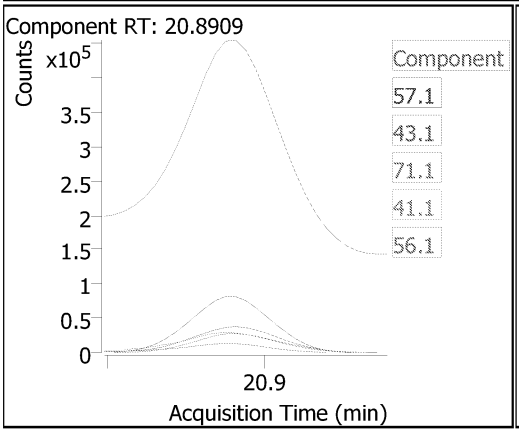
Agilent Technologies

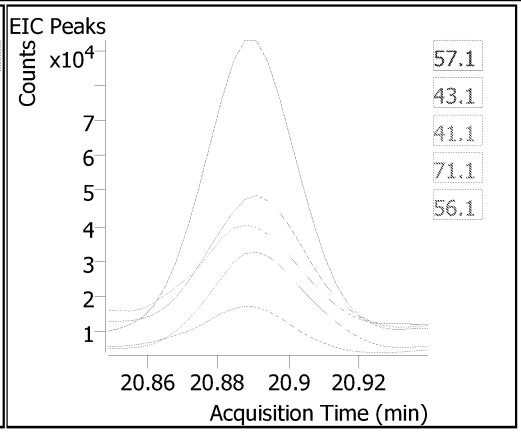
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.8909 | Undecane, 2,6-dimethyl- | 1149939.9 | 88.1 | 17301-23-4 | C13H28 | 2.41 |

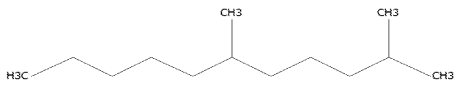


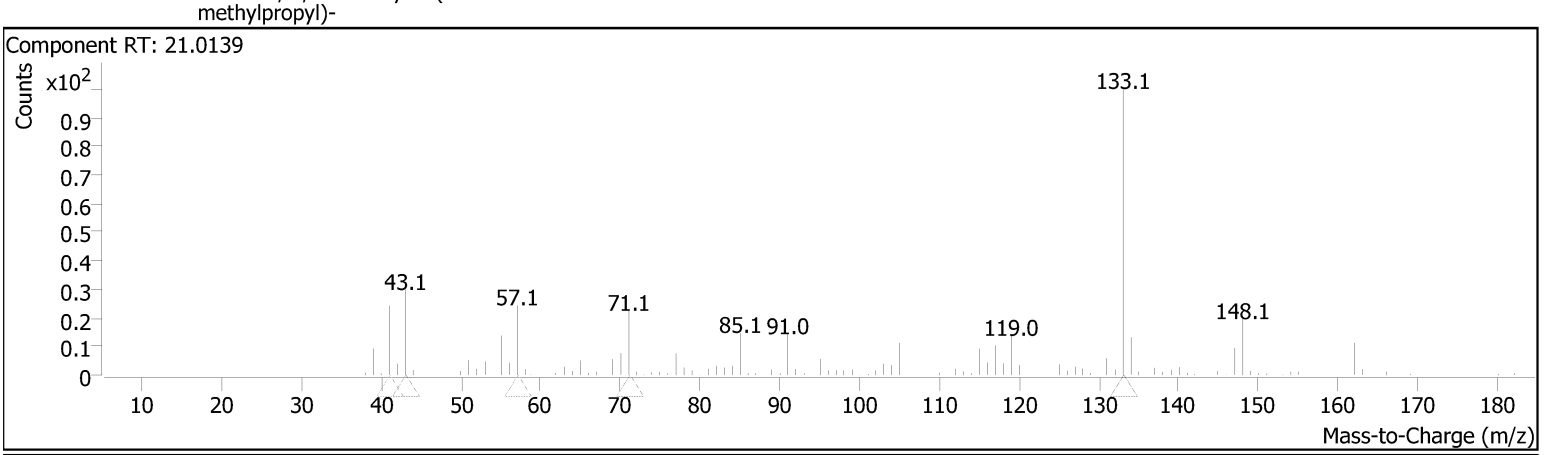



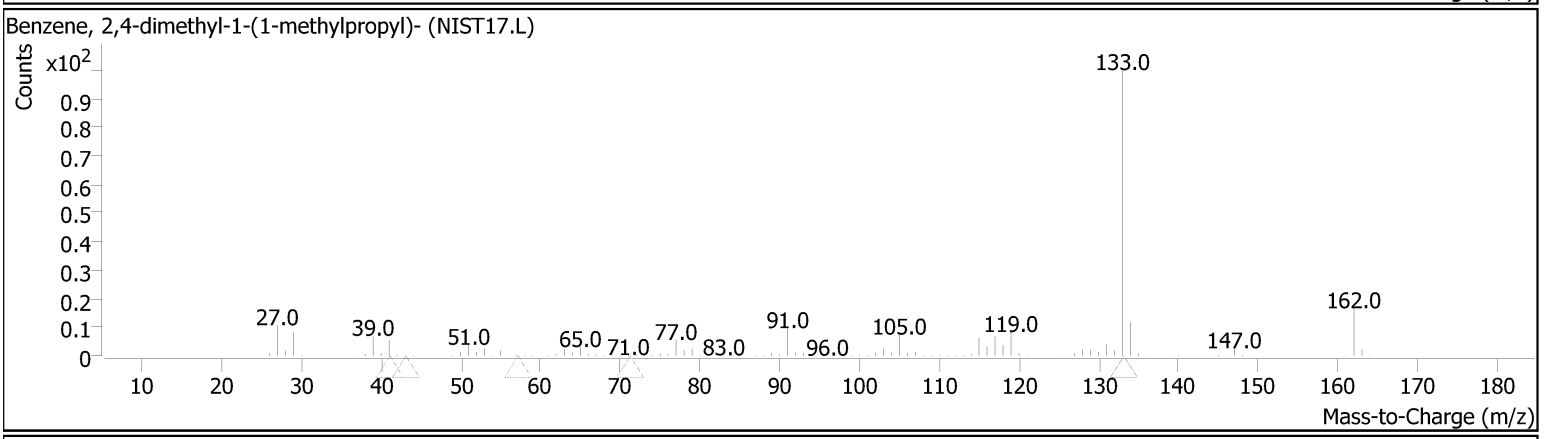



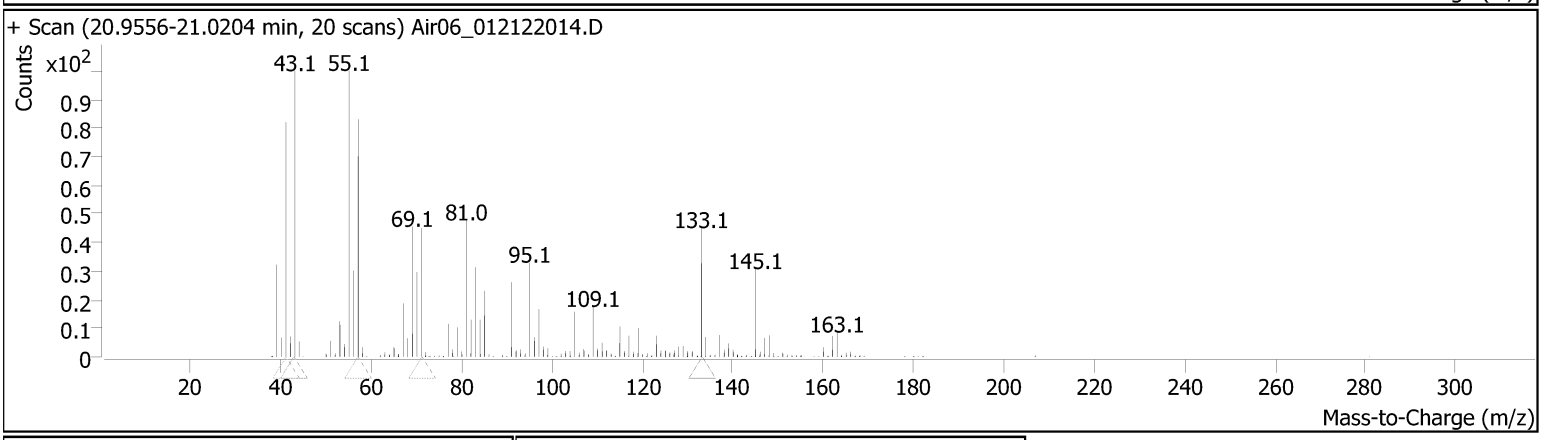
# Library Search Results - NonTarget Hits with Details

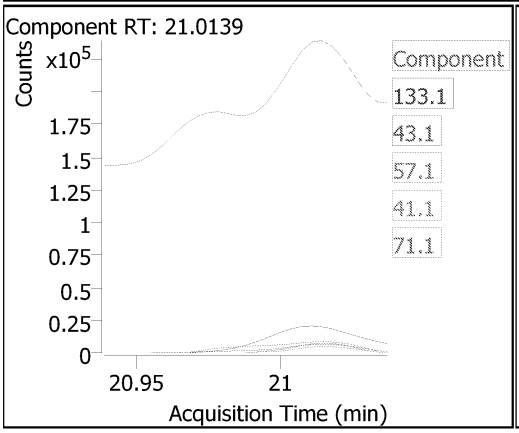
Agilent Technologies

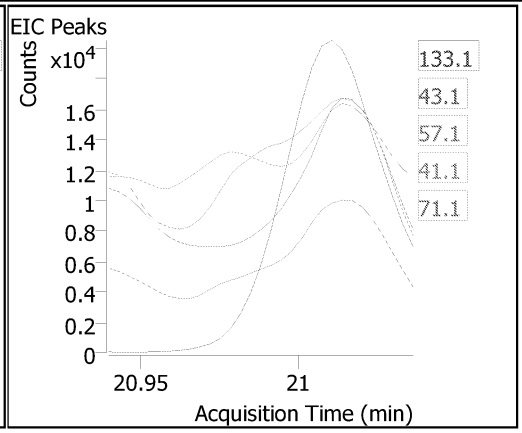
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.0139 | Benzene, 2,4-dimethyl-1-(1-methylpropyl)- | 711819.8 | 80.3 | 1483-60-9 | C12H18 | 1.492 |

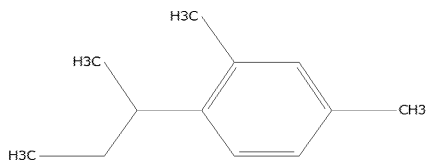


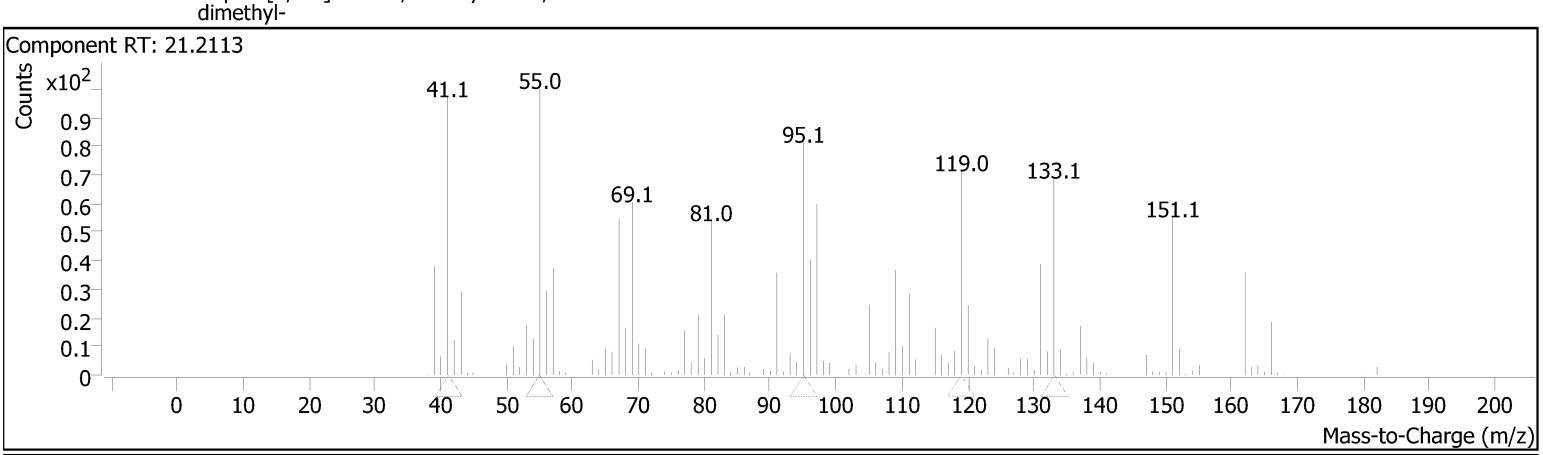



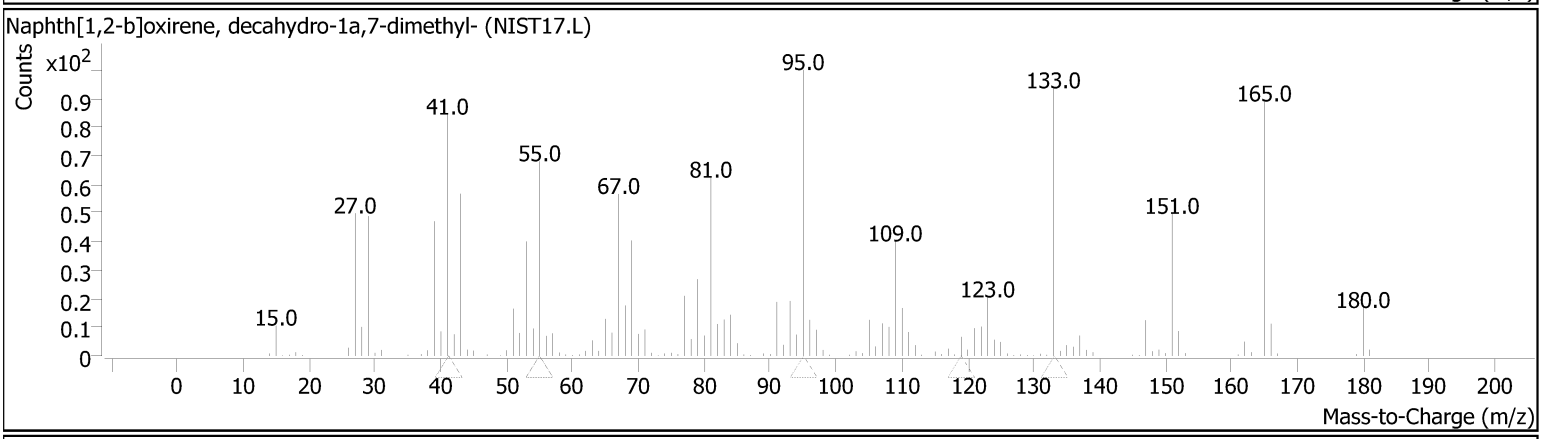



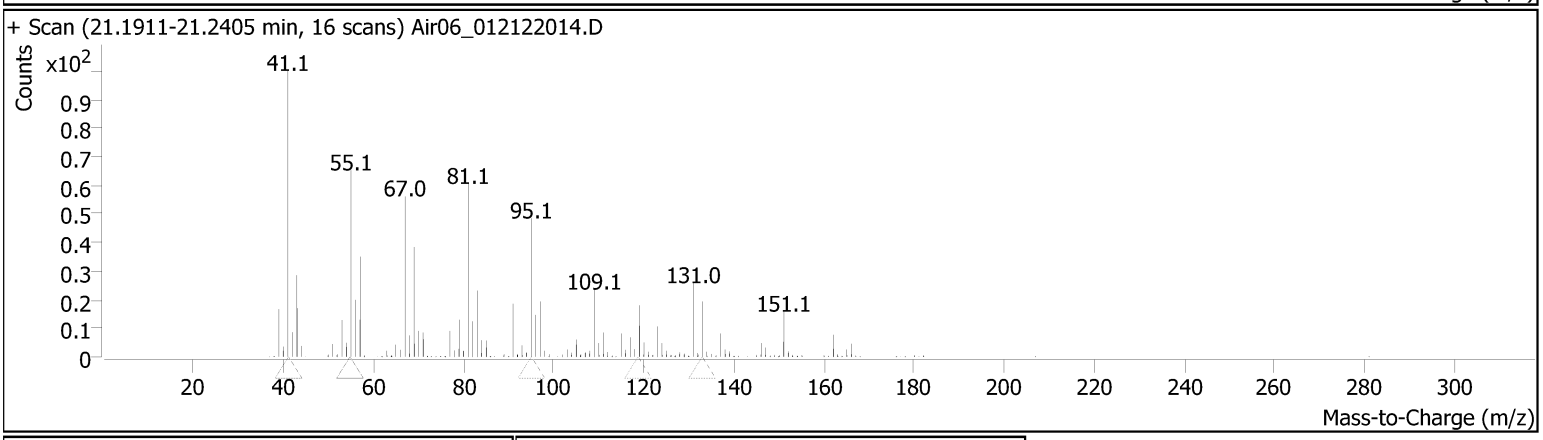
# Library Search Results - NonTarget Hits with Details

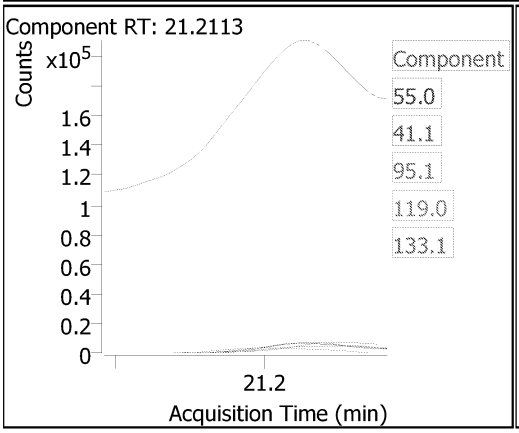
Agilent Technologies

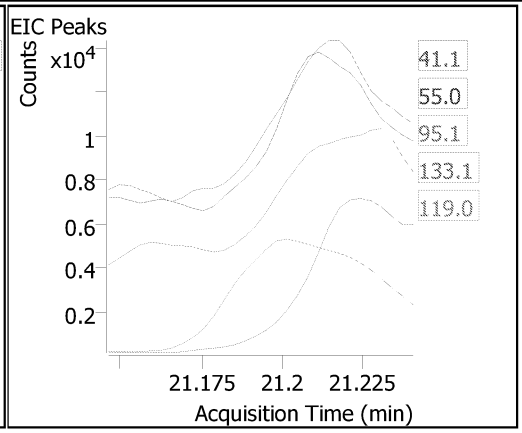
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.2113 | Naphth[1,2-b]oxirene, decahydro-1a,7-dimethyl- | 524527.4 | 74.9 | 55976-08-4 | C12H20O | 1.1 |

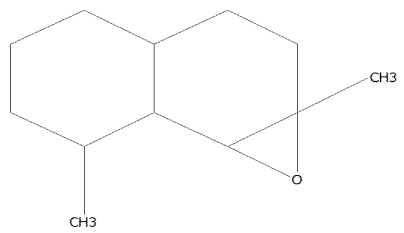


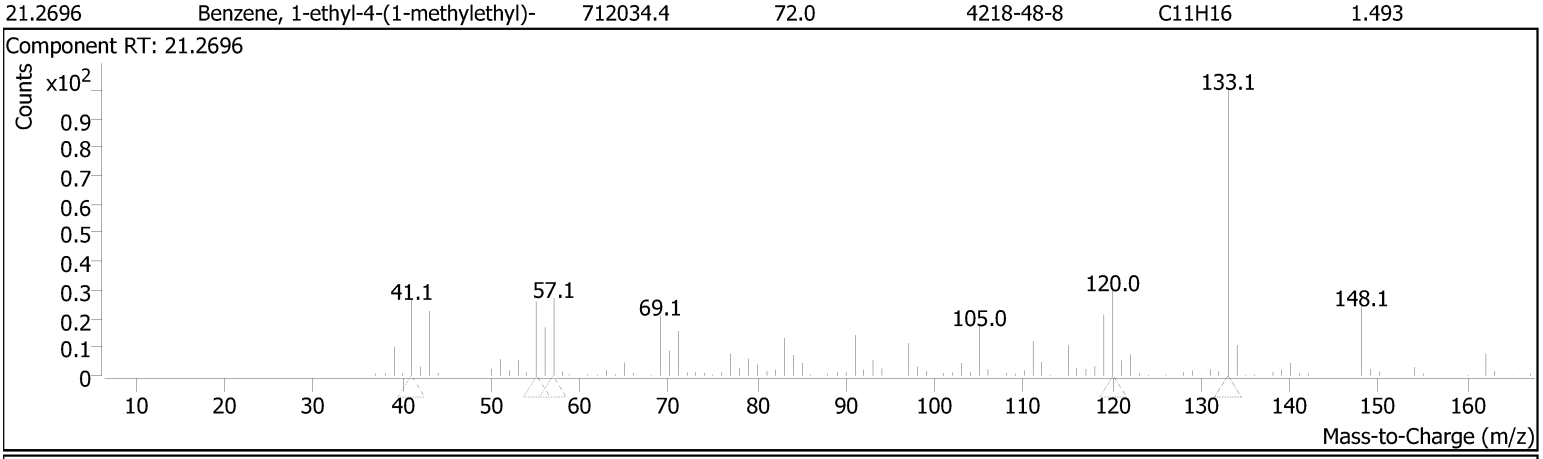



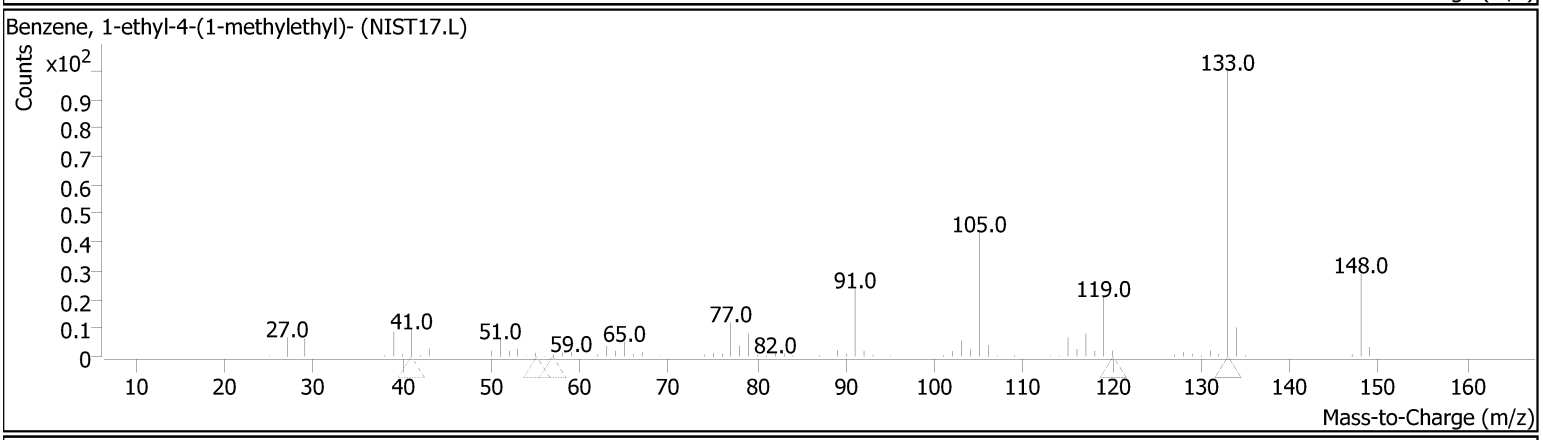



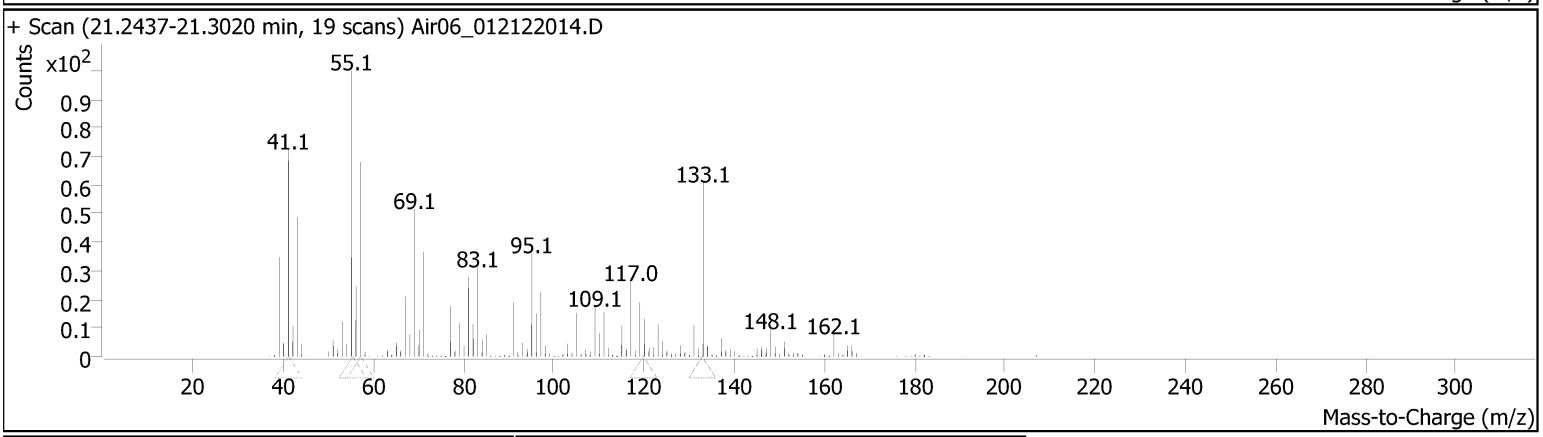



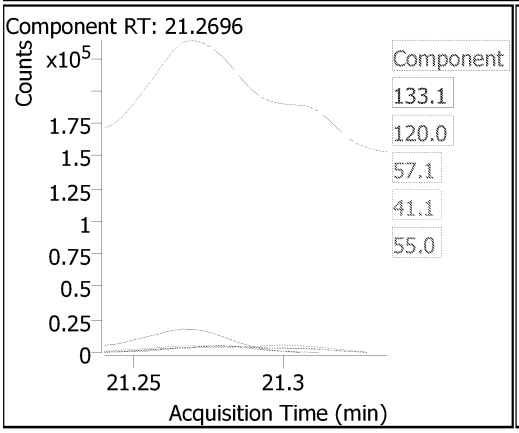



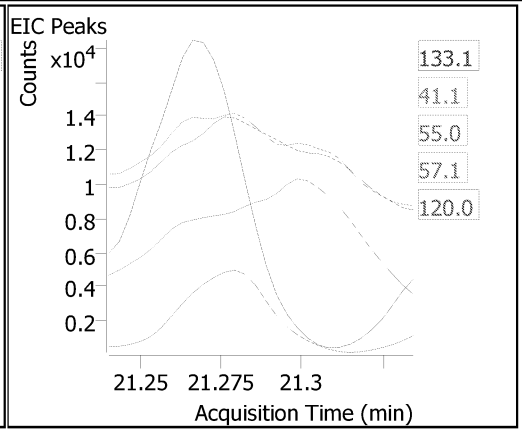
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.2696 | Benzene, 1-ethyl-4-(1-methylethyl)- | 712034.4 | 72.0 | 4218-48-8 | C11H16 | 1.493 |



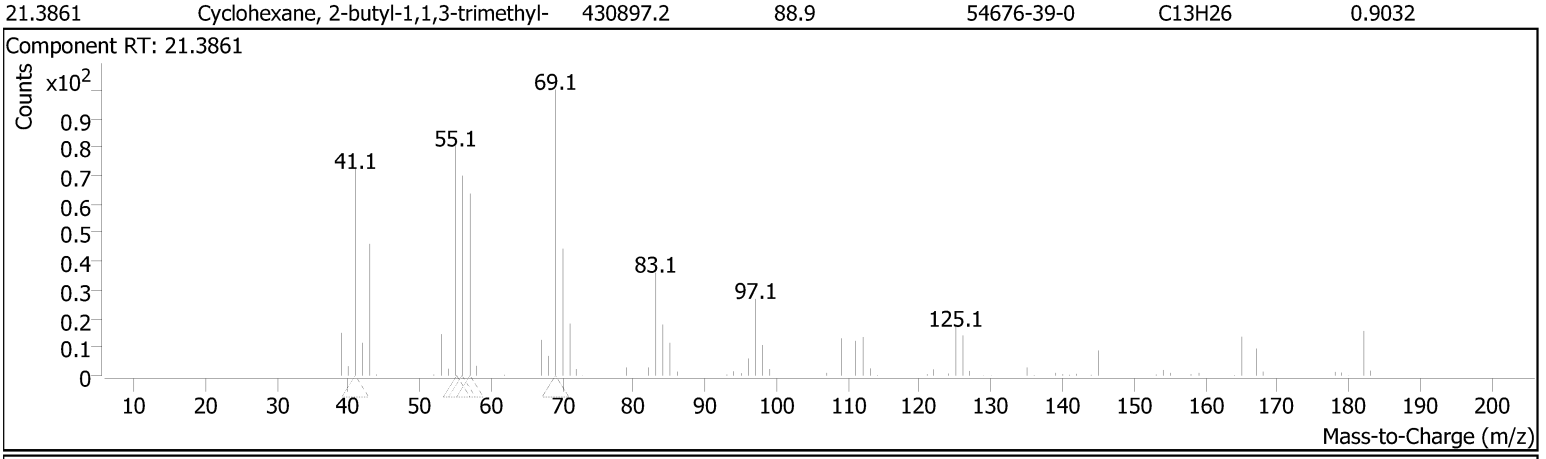



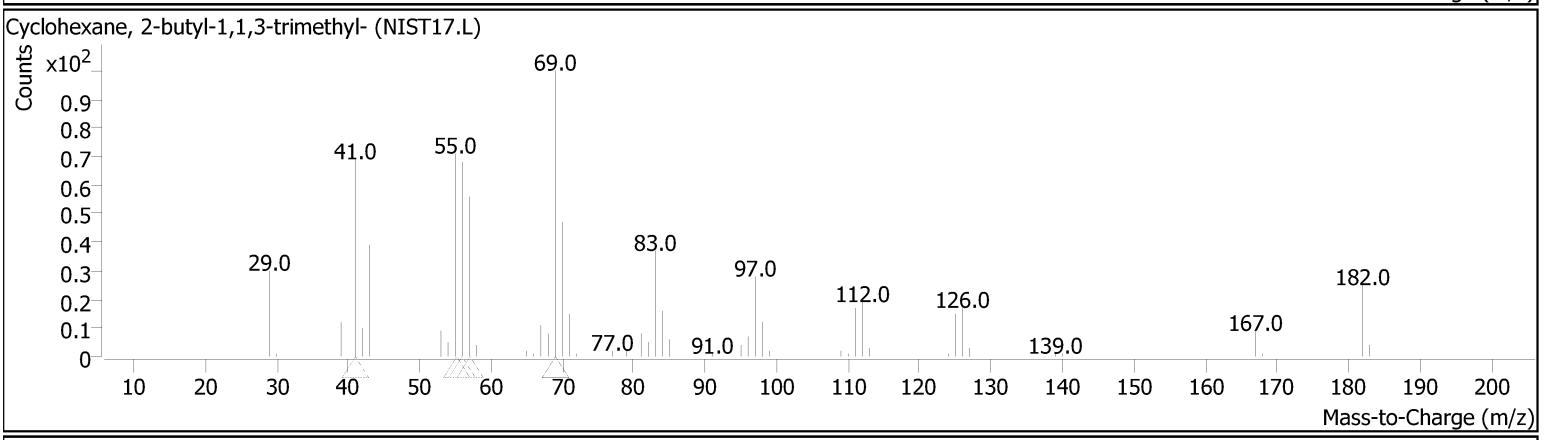



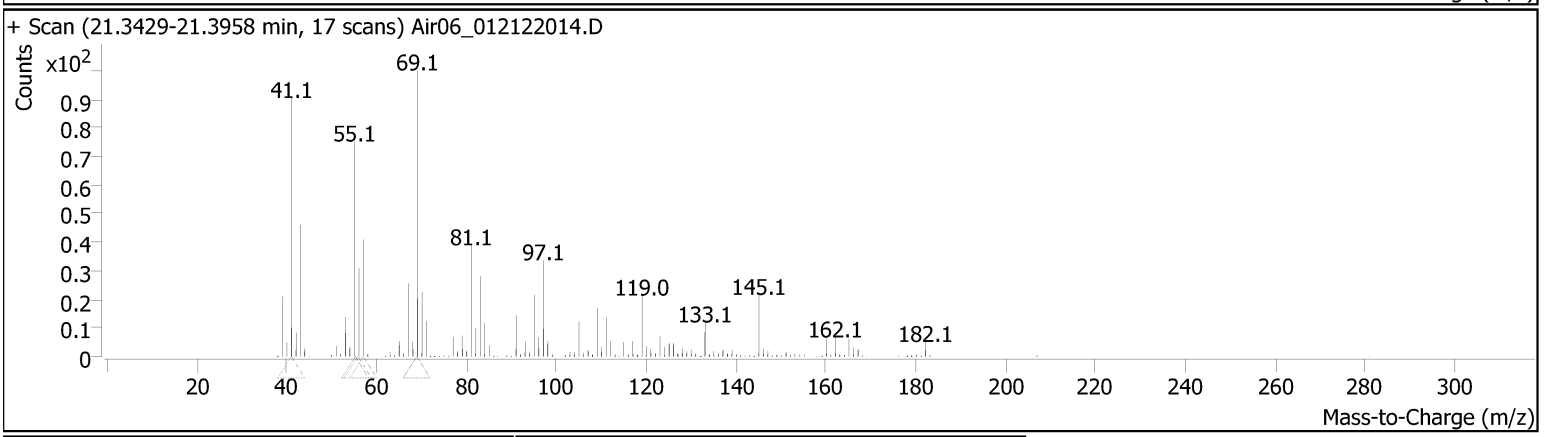



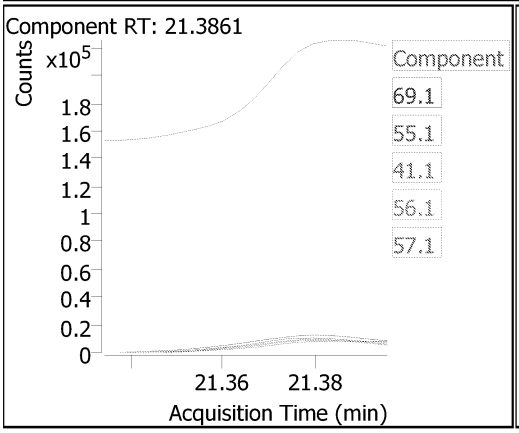


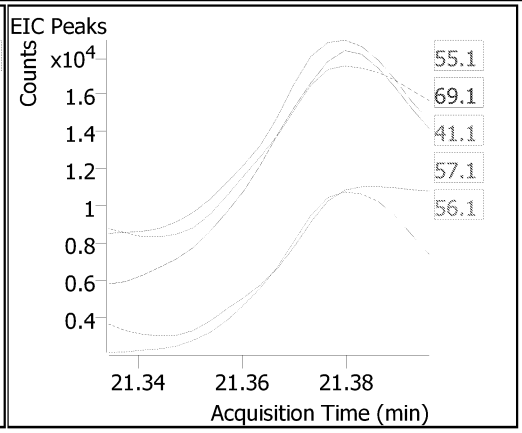

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.3861 | Cyclohexane, 2-butyl-1,1,3-trimethyl- | 430897.2 | 88.9 | 54676-39-0 | C13H26 | 0.9032 |

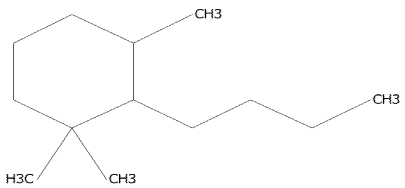


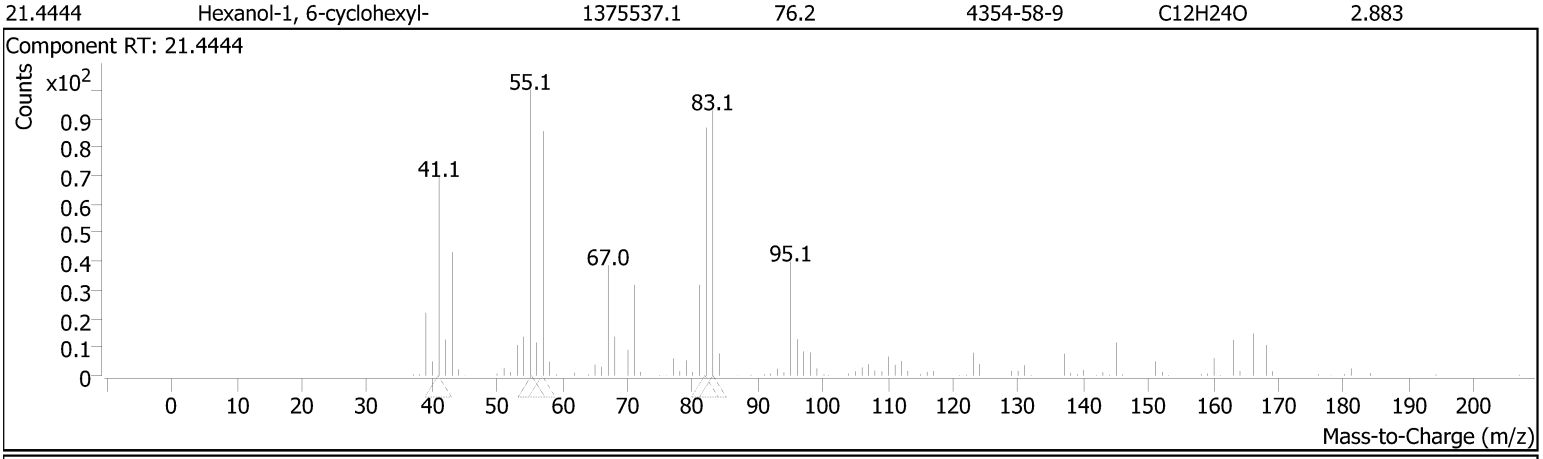



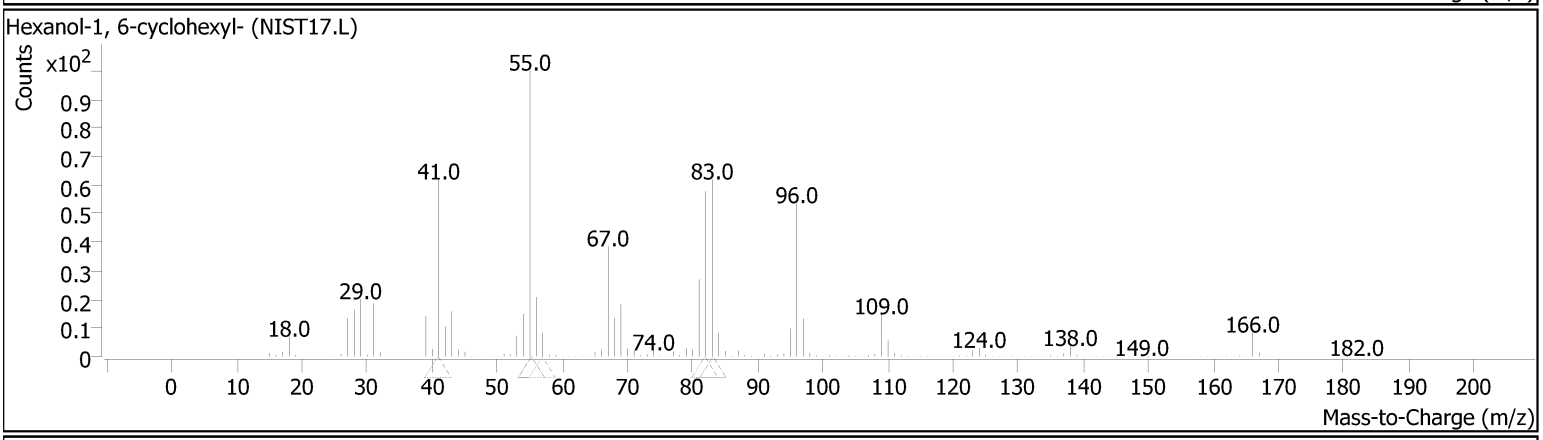



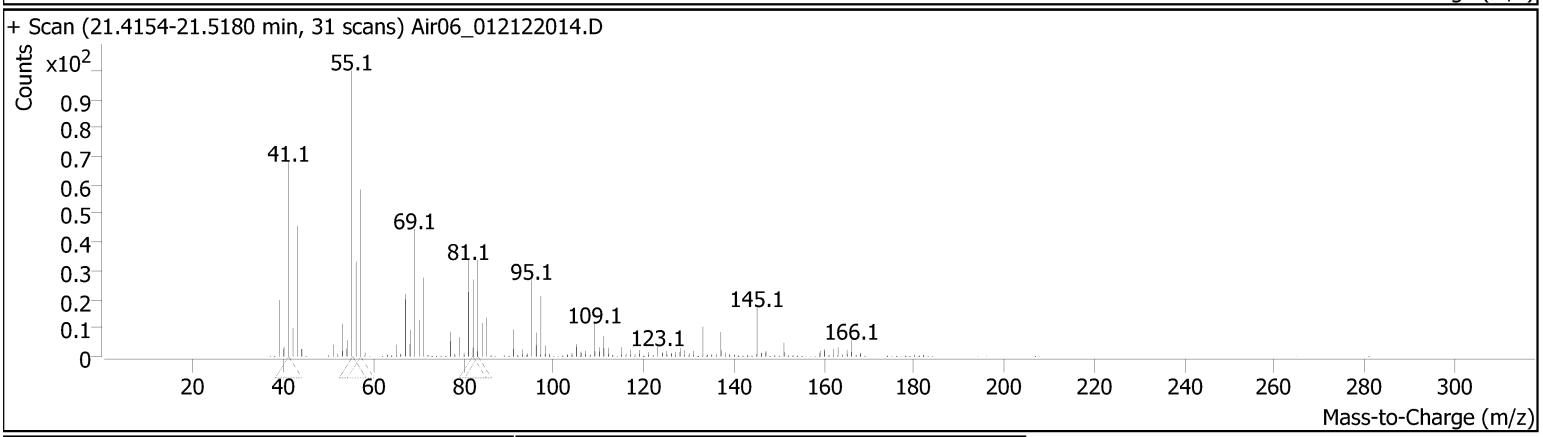
# Library Search Results - NonTarget Hits with Details

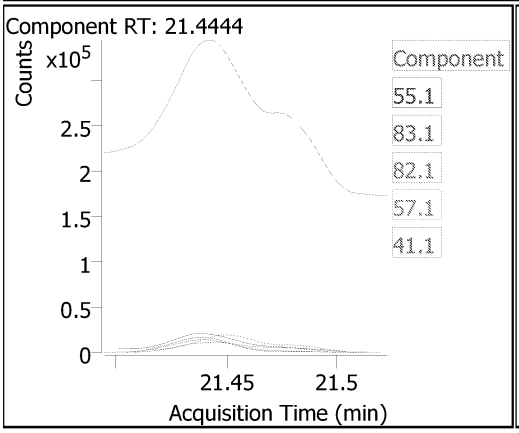
Agilent Technologies

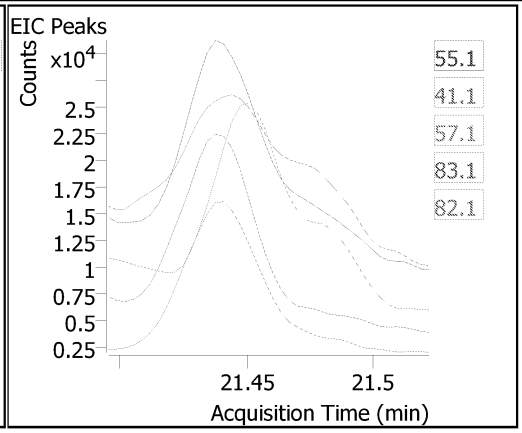
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.4444 | Hexanol-1, 6-cyclohexyl- | 1375537.1 | 76.2 | 4354-58-9 | C12H24O | 2.883 |

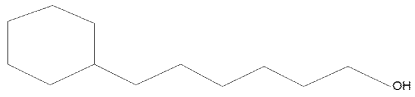


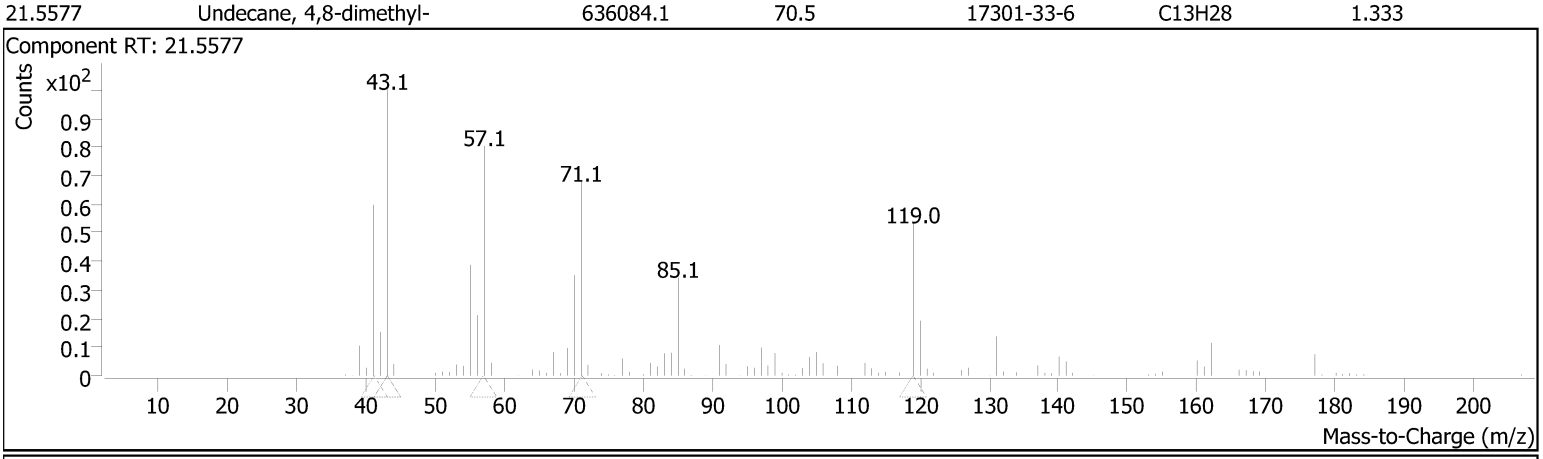



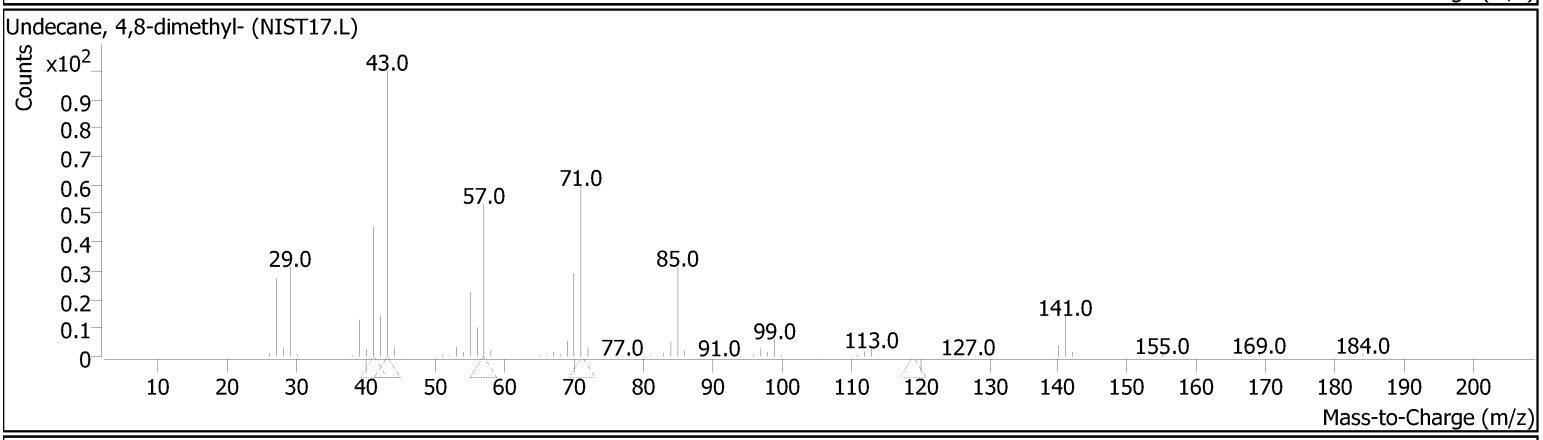



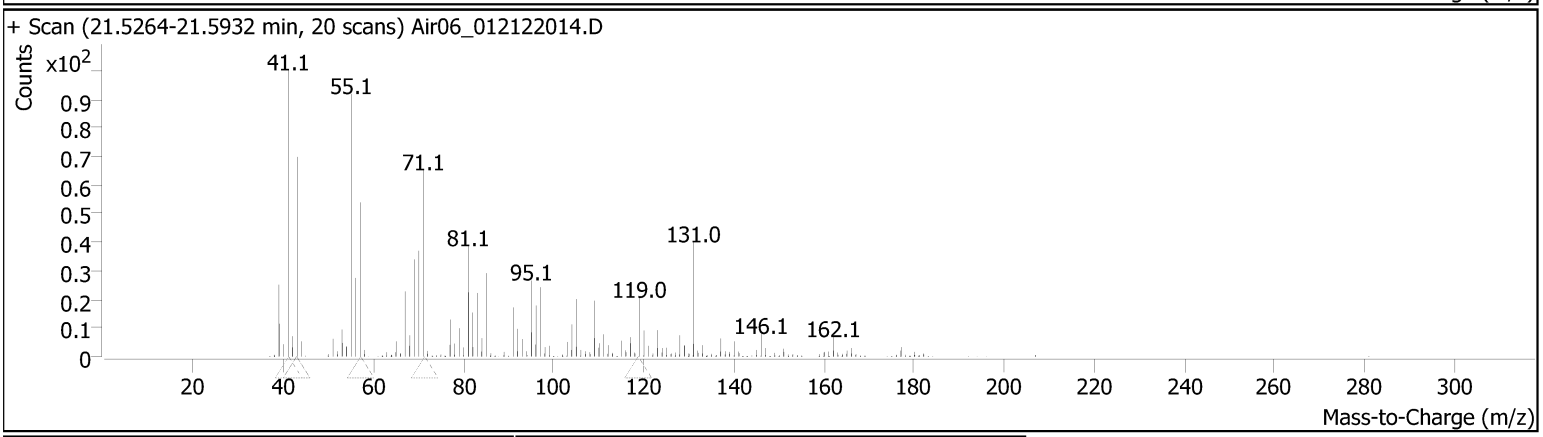



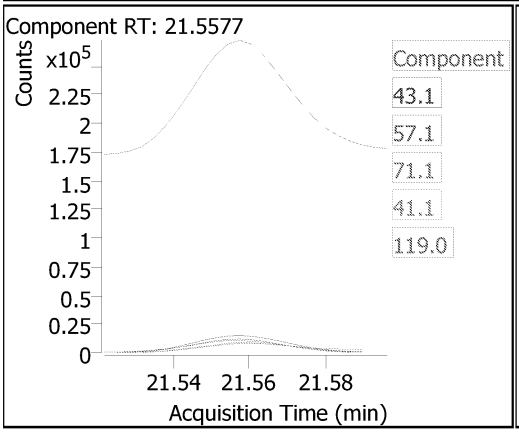



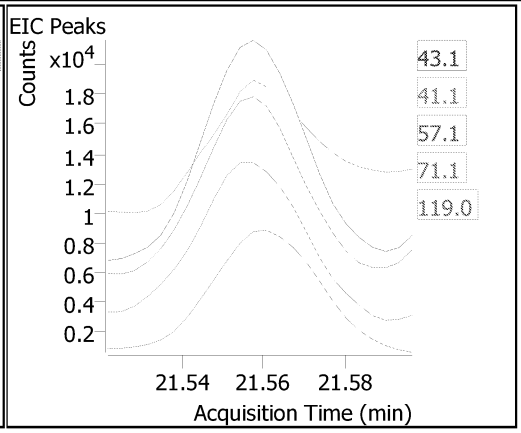
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.5577 | Undecane, 4,8-dimethyl- | 636084.1 | 70.5 | 17301-33-6 | C13H28 | 1.333 |

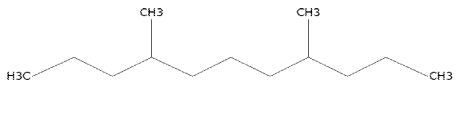


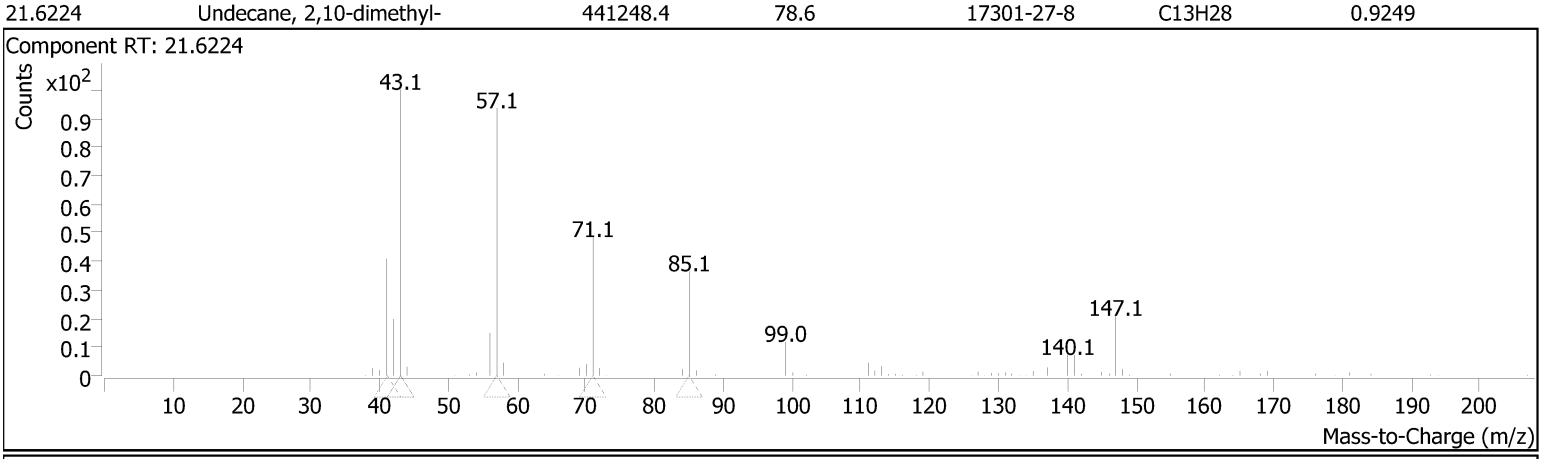



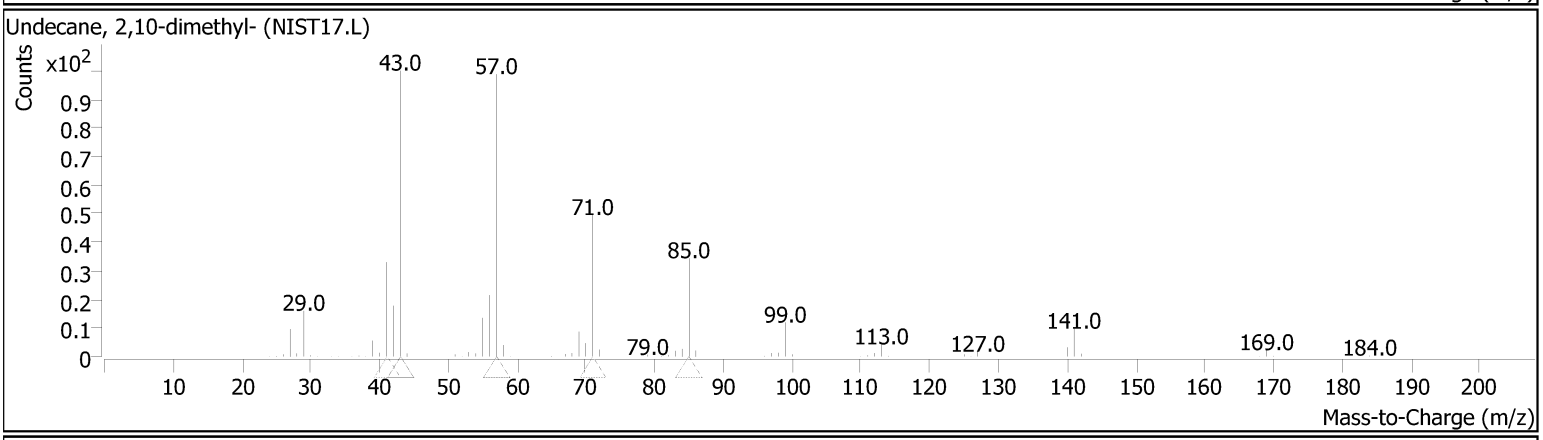



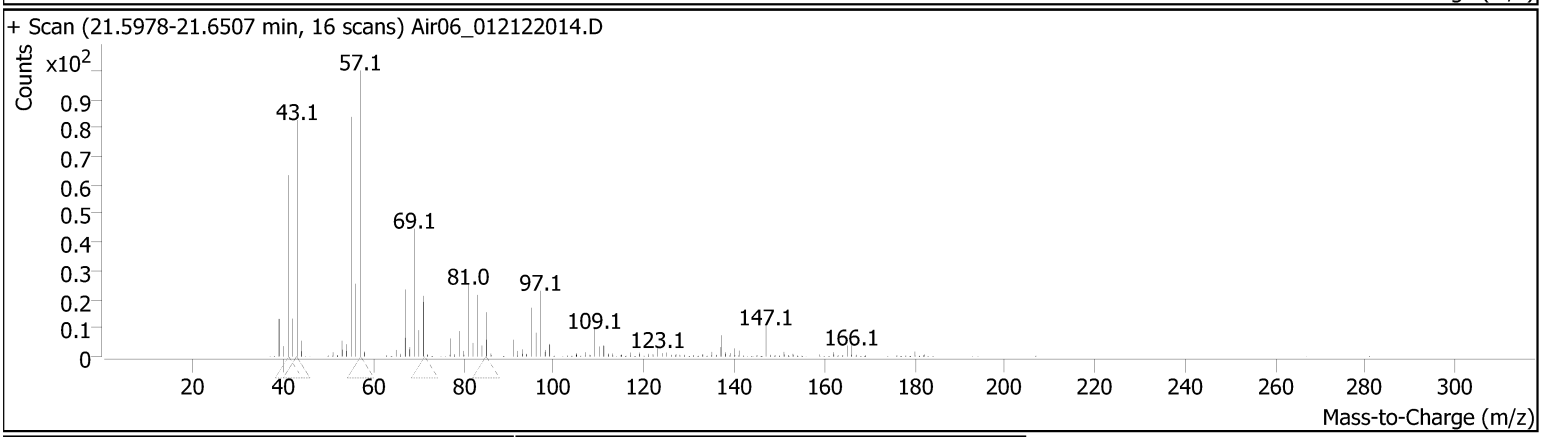



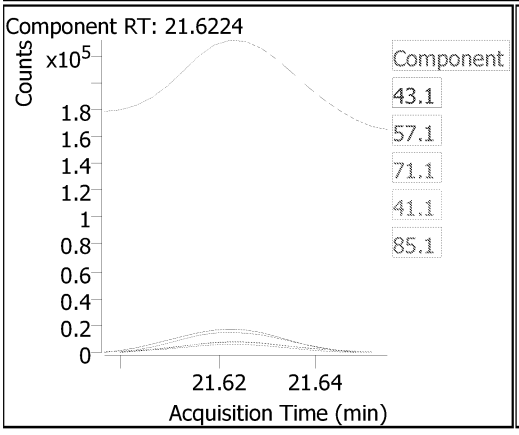



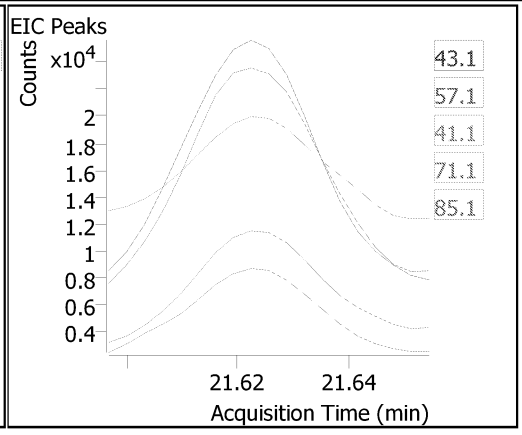
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.6224 | Undecane, 2,10-dimethyl- | 441248.4 | 78.6 | 17301-27-8 | C13H28 | 0.9249 |

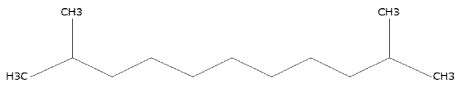


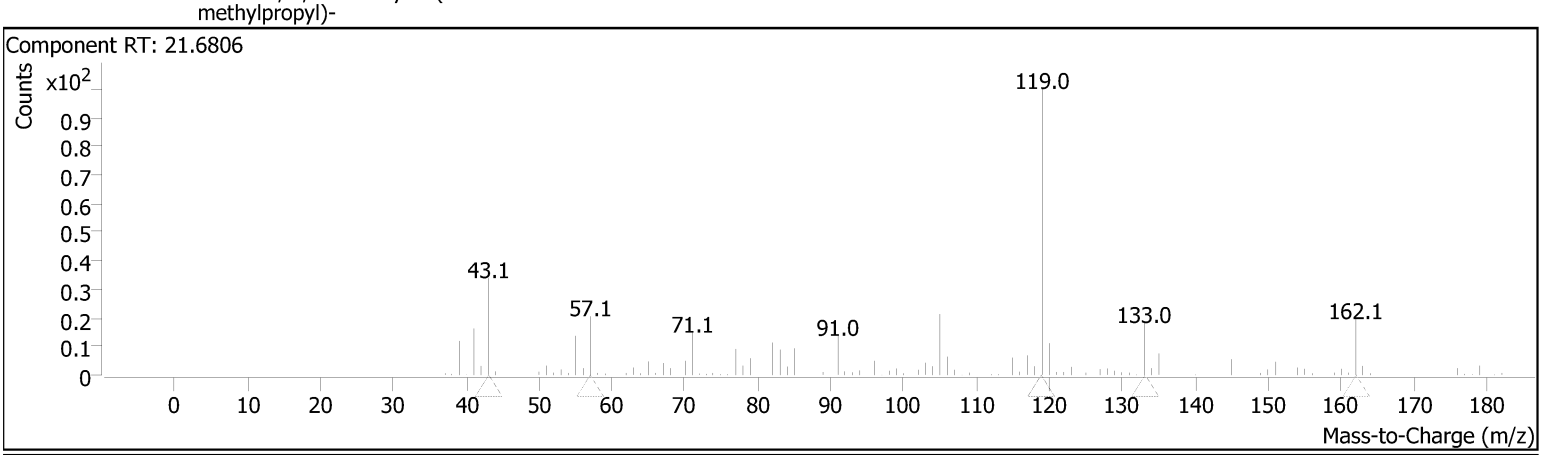



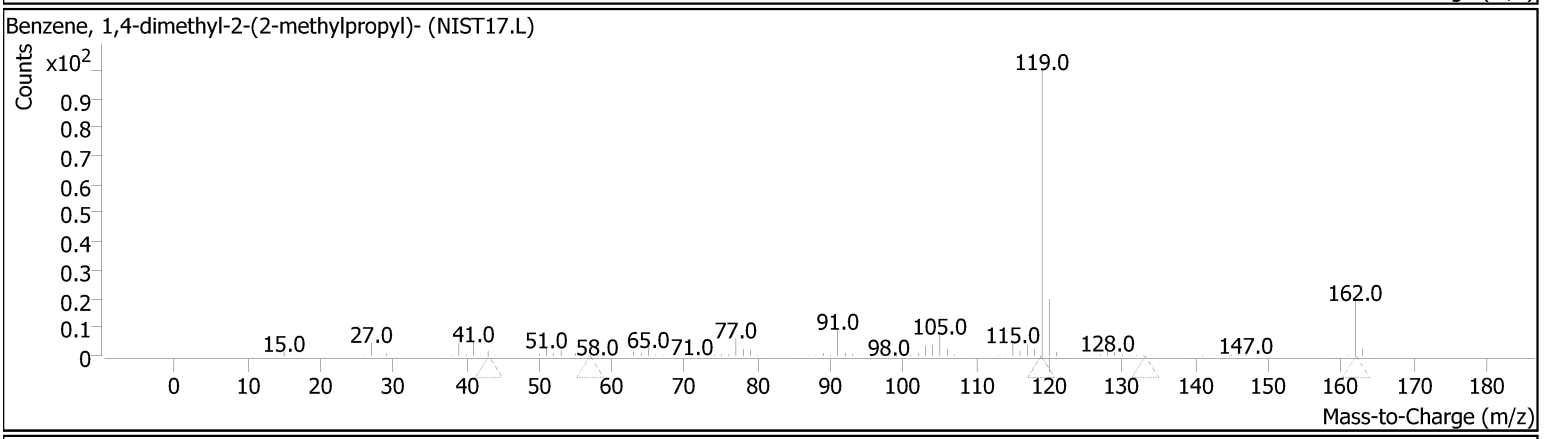



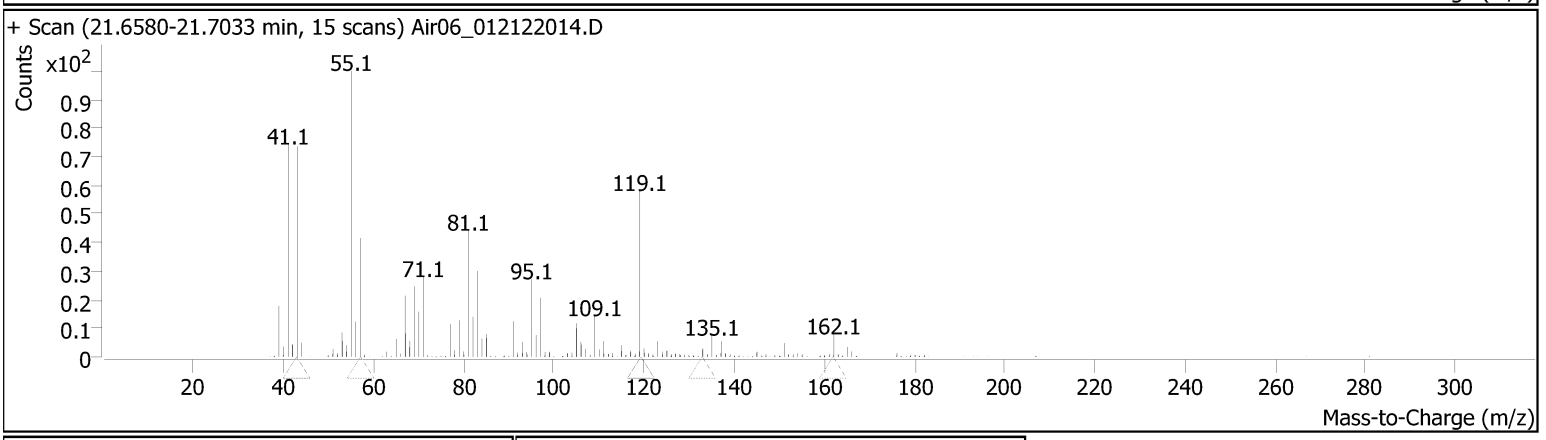



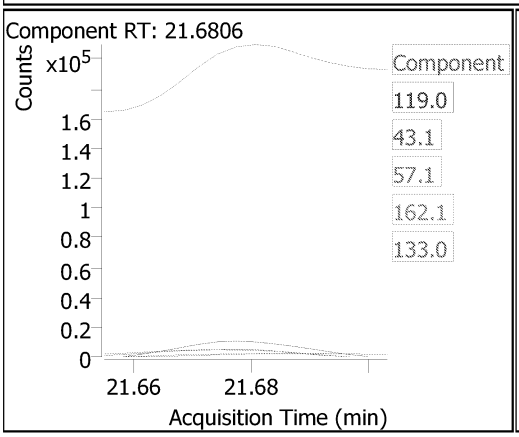



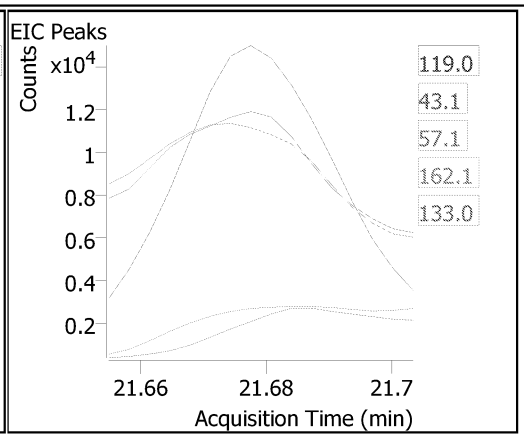
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.6806 | Benzene, 1,4-dimethyl-2-(2-methylpropyl)- | 347940.9 | 74.4 | 55669-88-0 | C12H18 | 0.7293 |

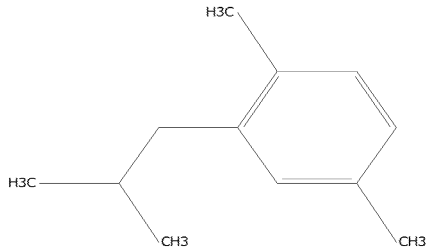


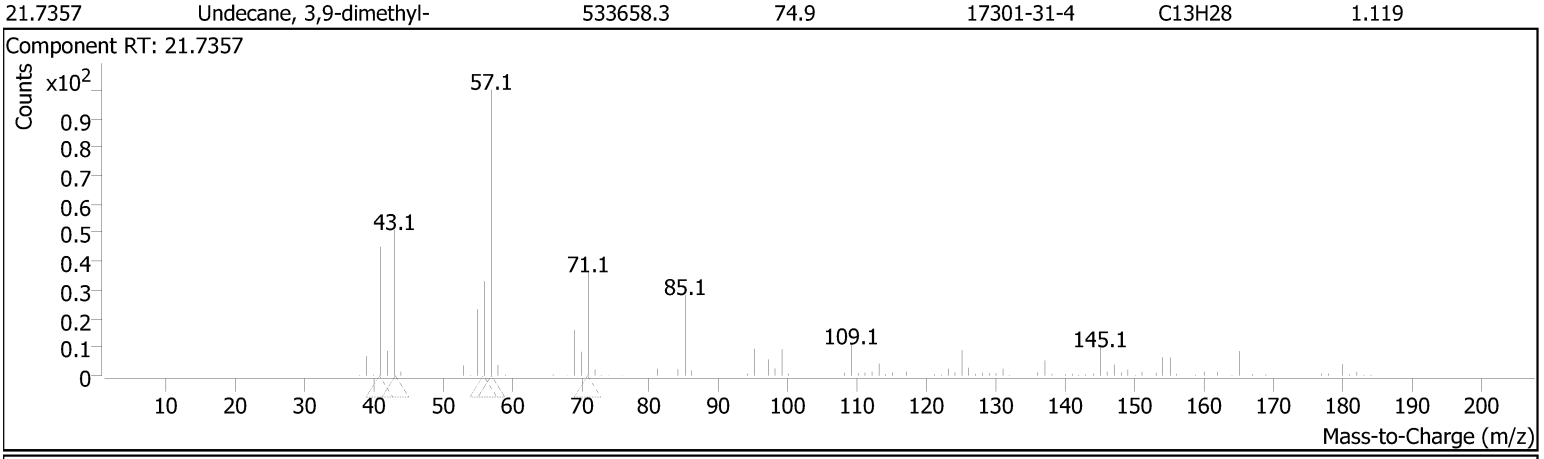



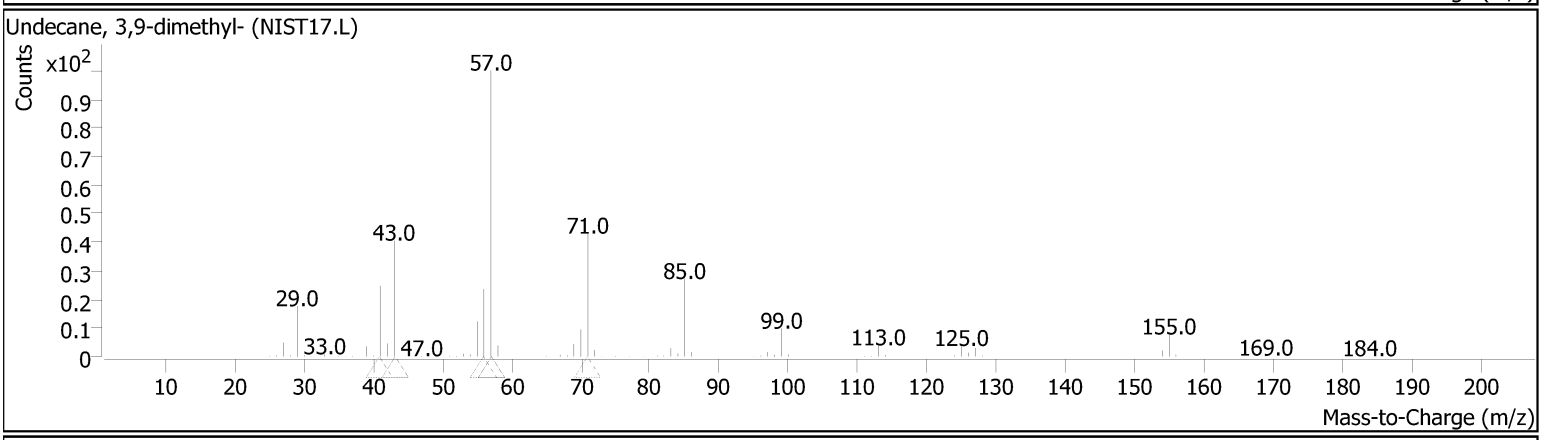



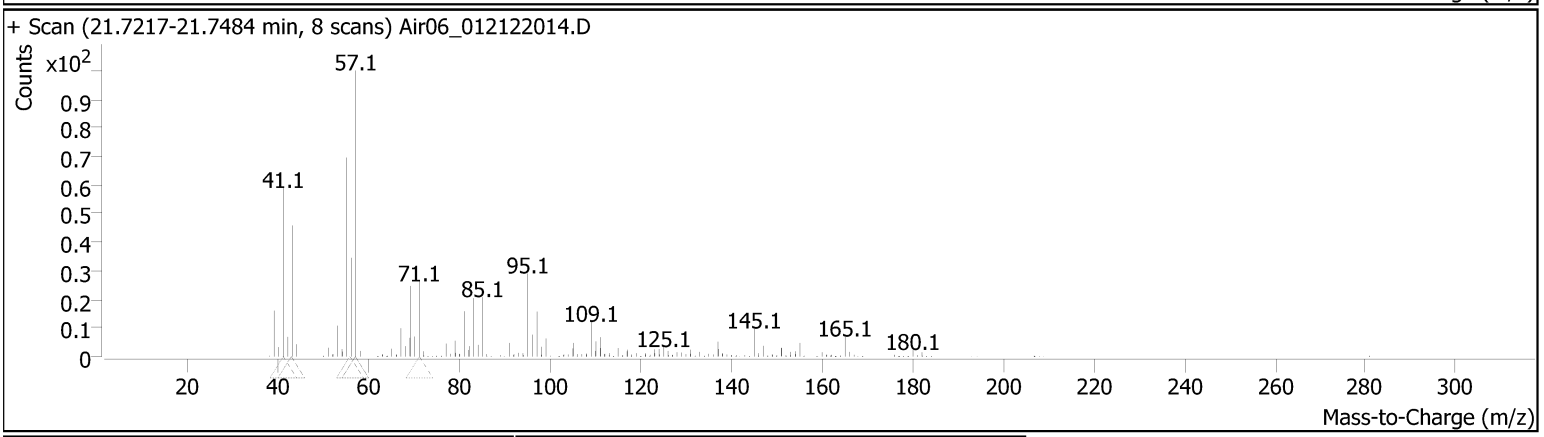
# Library Search Results - NonTarget Hits with Details

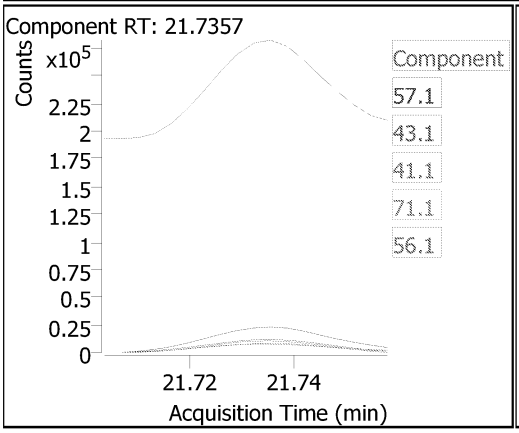
Agilent Technologies

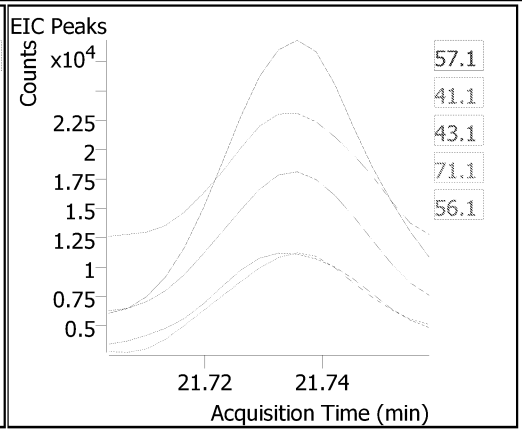
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7357 | Undecane, 3,9-dimethyl- | 533658.3 | 74.9 | 17301-31-4 | C13H28 | 1.119 |



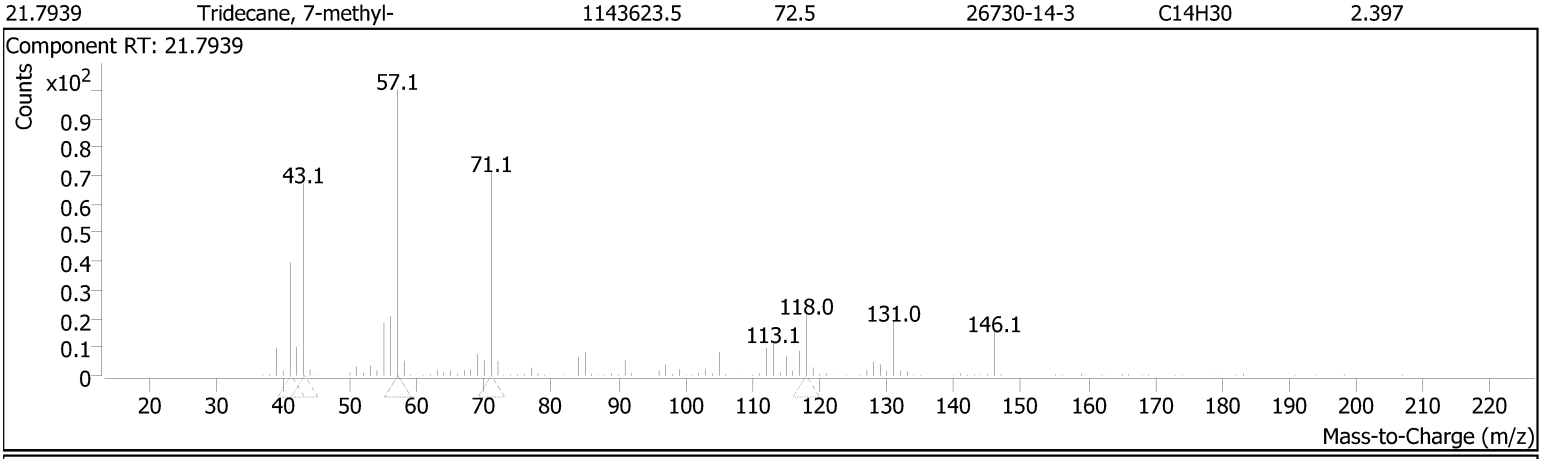



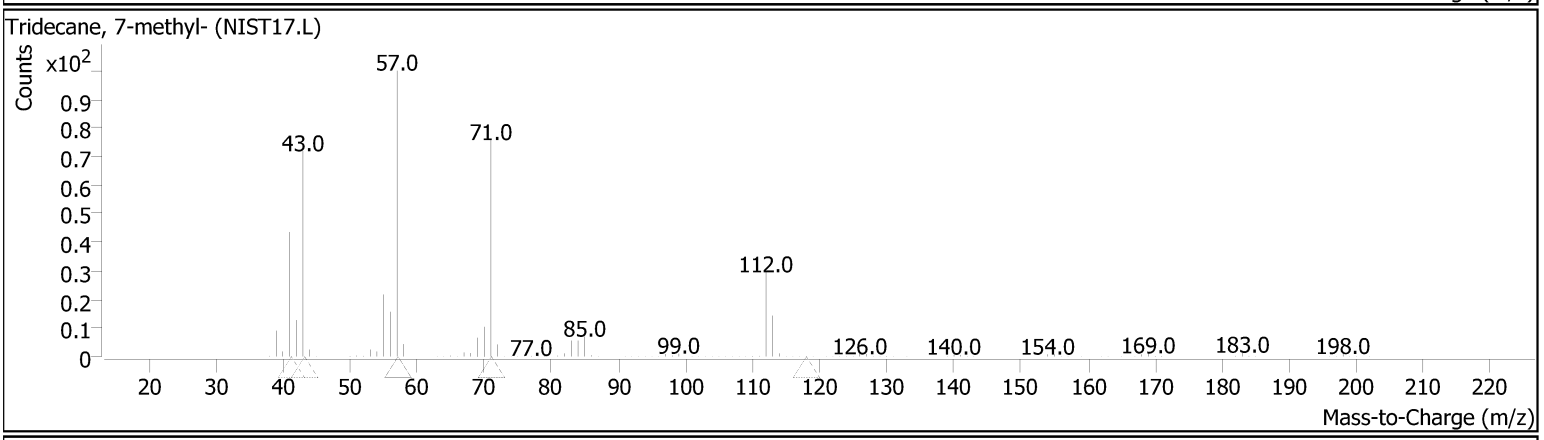



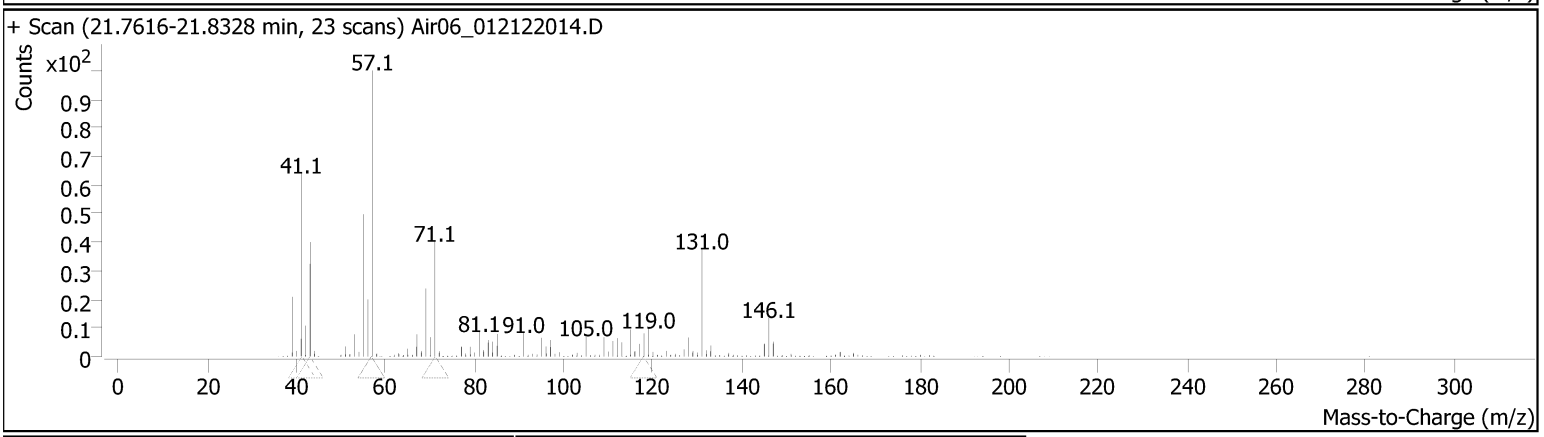



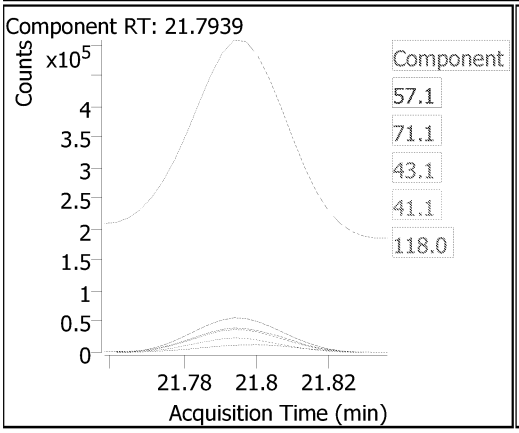


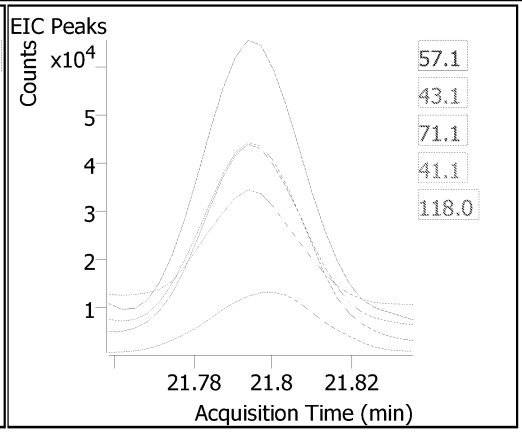

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7939 | Tridecane, 7-methyl- | 1143623.5 | 72.5 | 26730-14-3 | C14H30 | 2.397 |

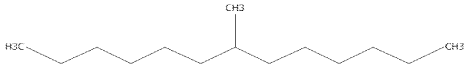


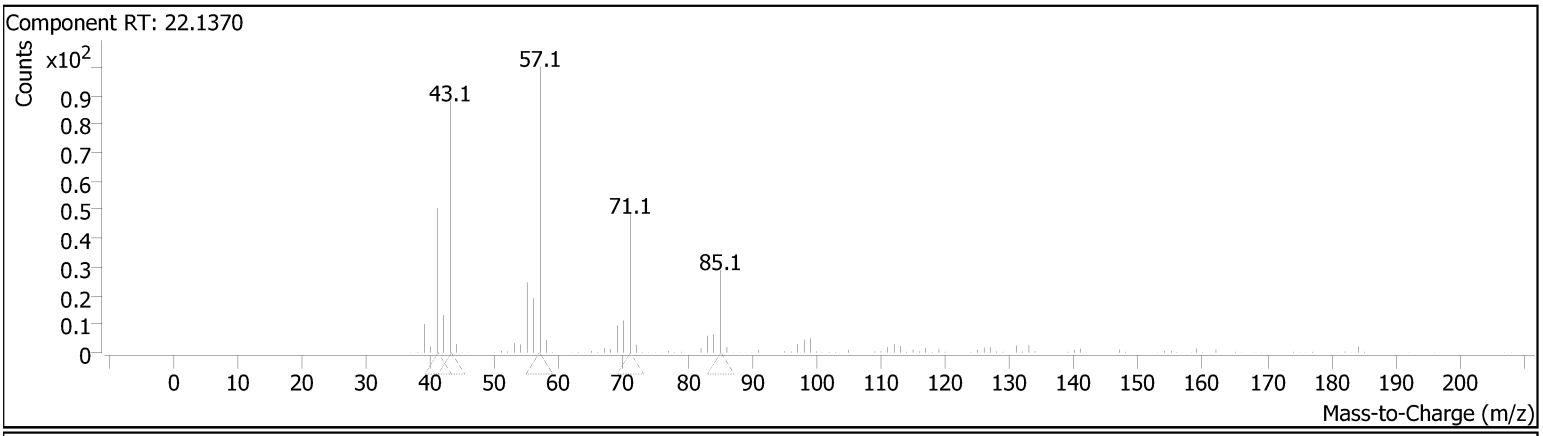



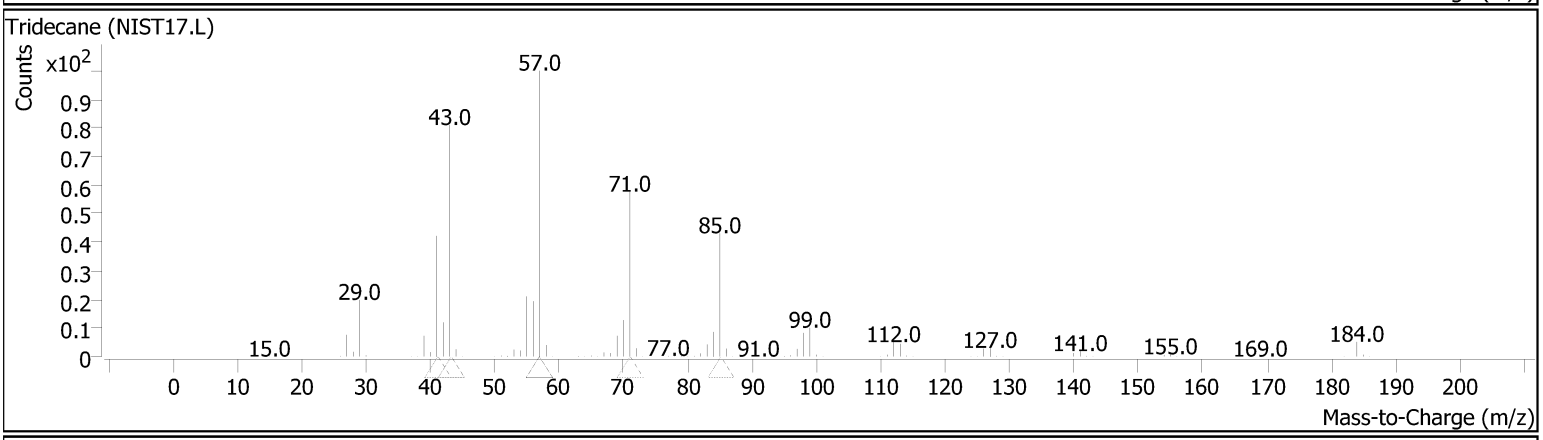



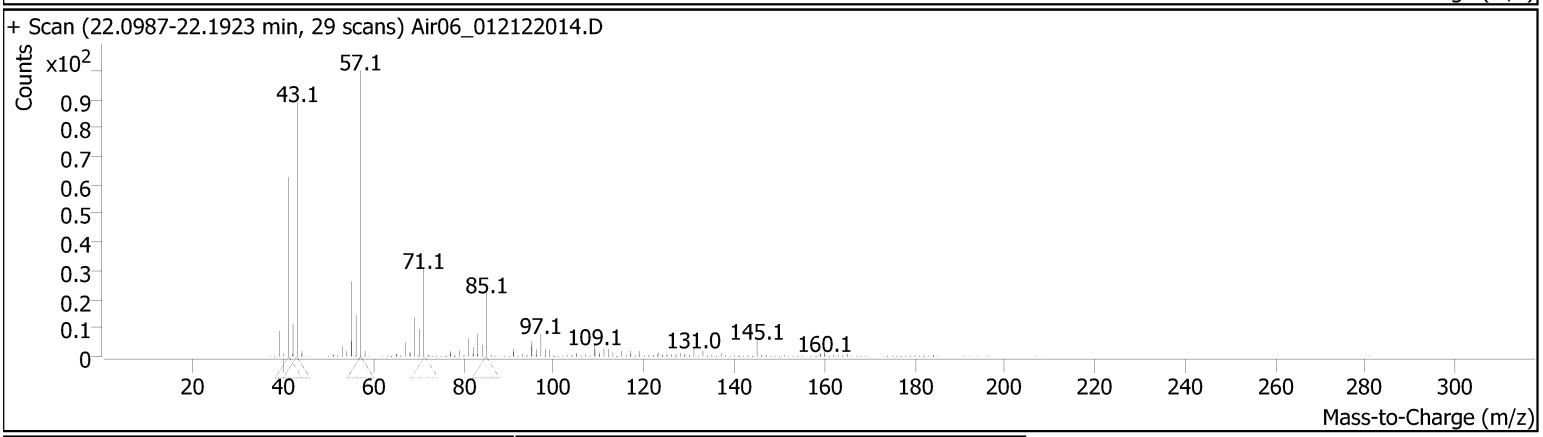



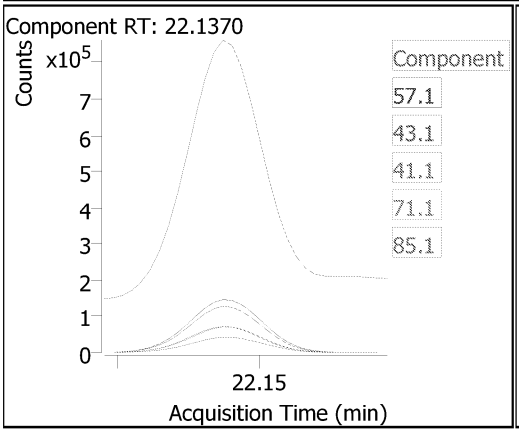



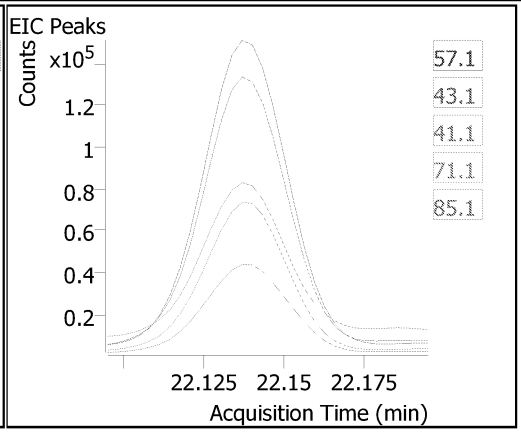
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.1370 | Tridecane | 1874710.3 | 91.9 | 629-50-5 | C13H28 | 3.93 |

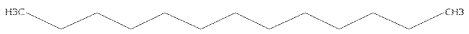


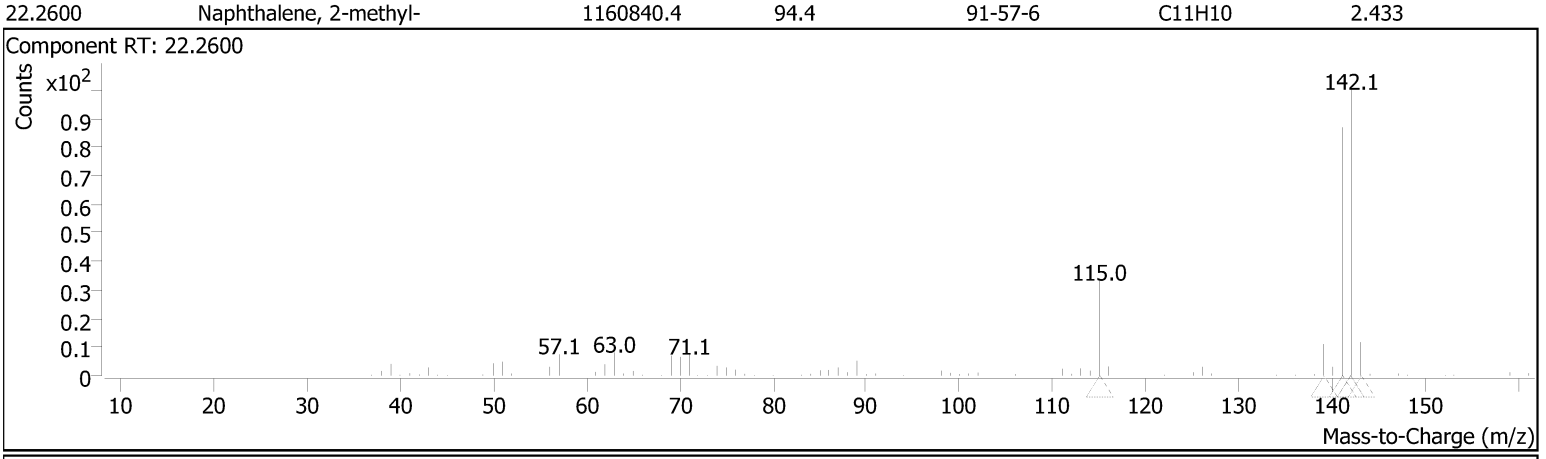



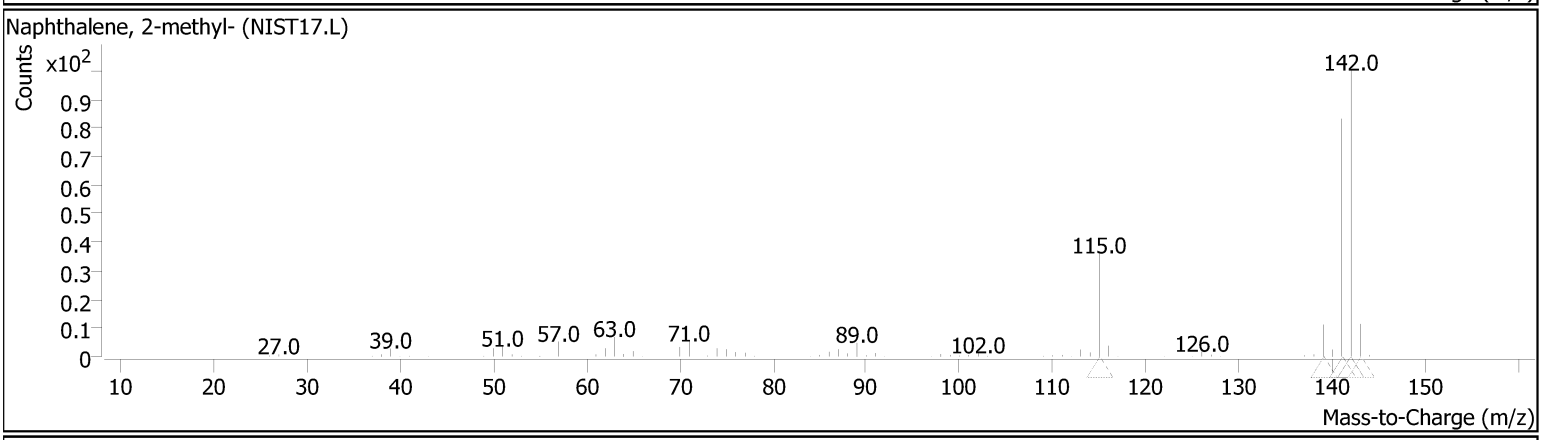



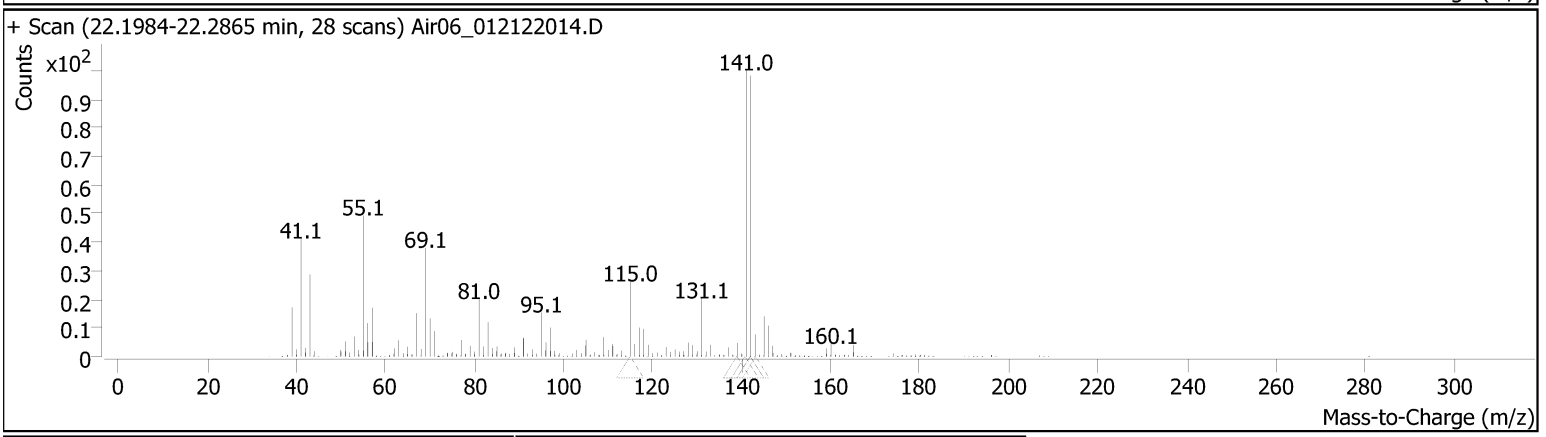



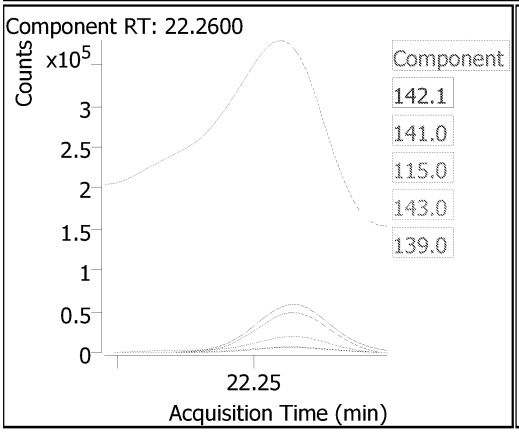



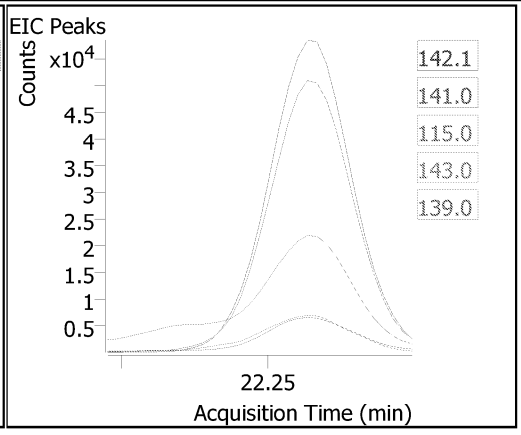
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.2600 | Naphthalene, 2-methyl- | 1160840.4 | 94.4 | 91-57-6 | C11H10 | 2.433 |

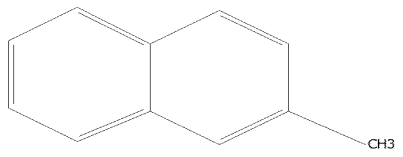


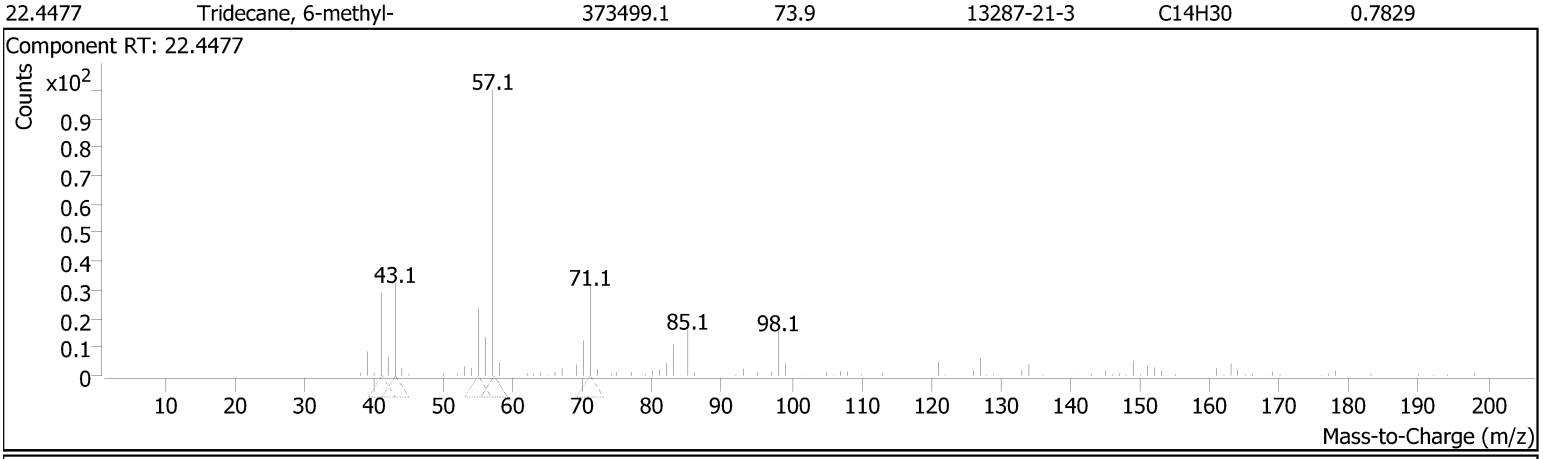



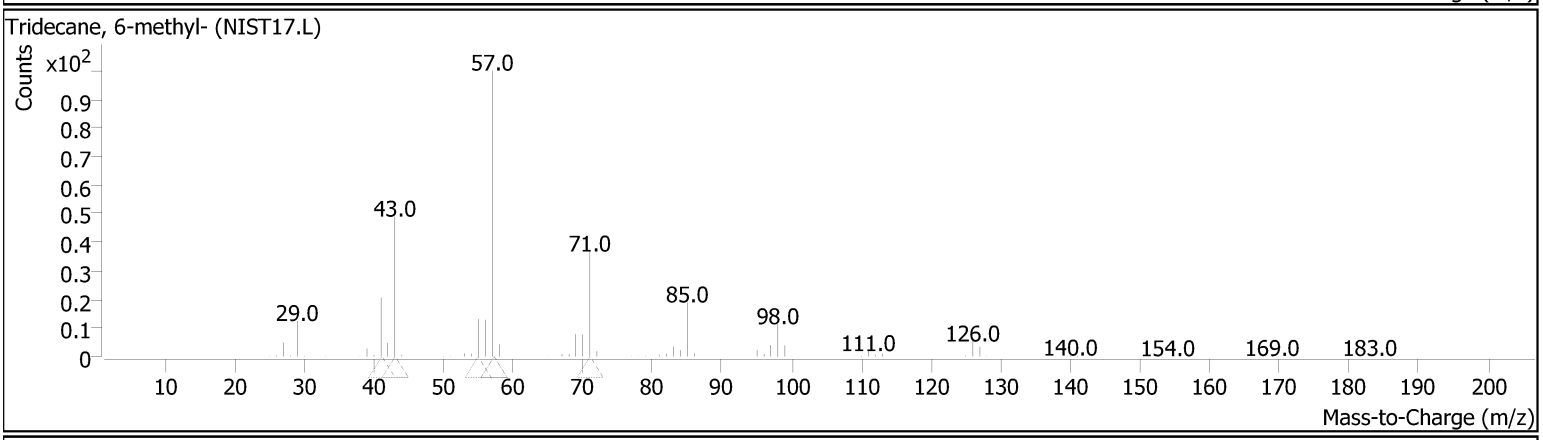



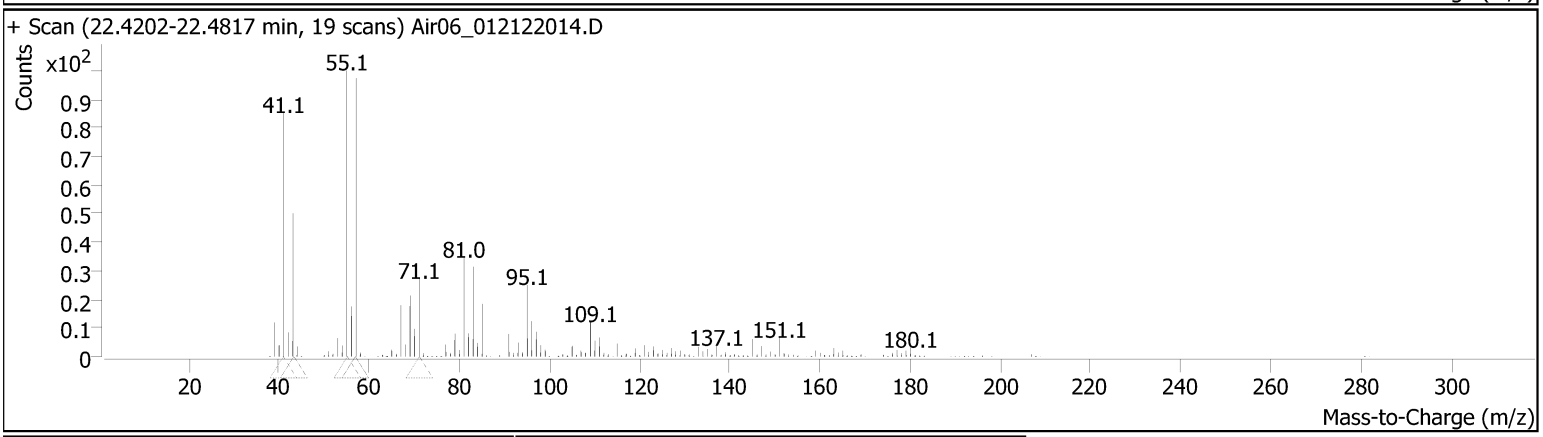



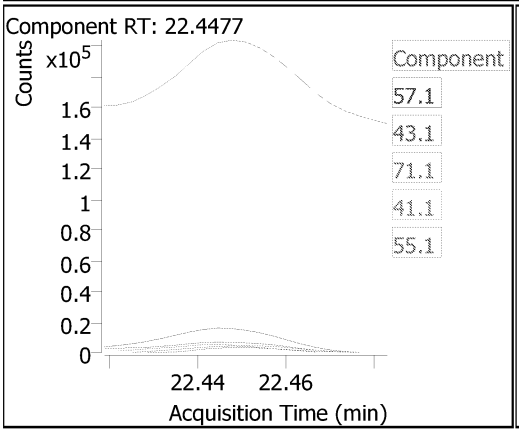



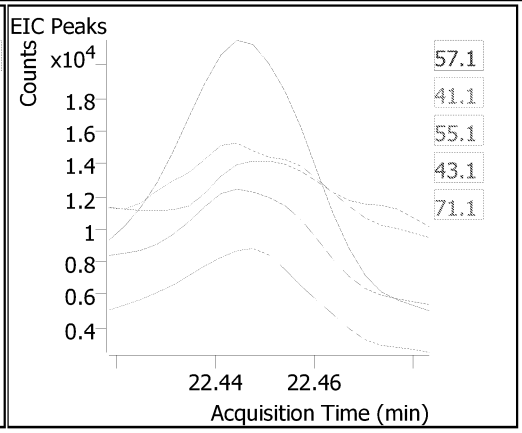
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.4477 | Tridecane, 6-methyl- | 373499.1 | 73.9 | 13287-21-3 | C14H30 | 0.7829 |

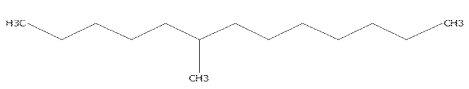


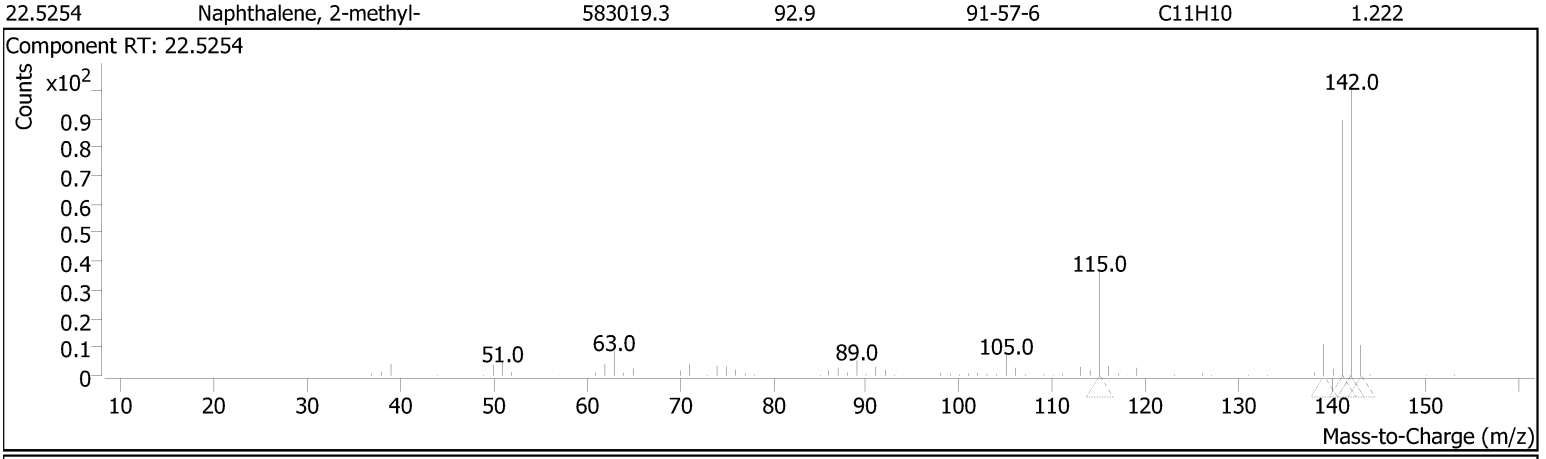



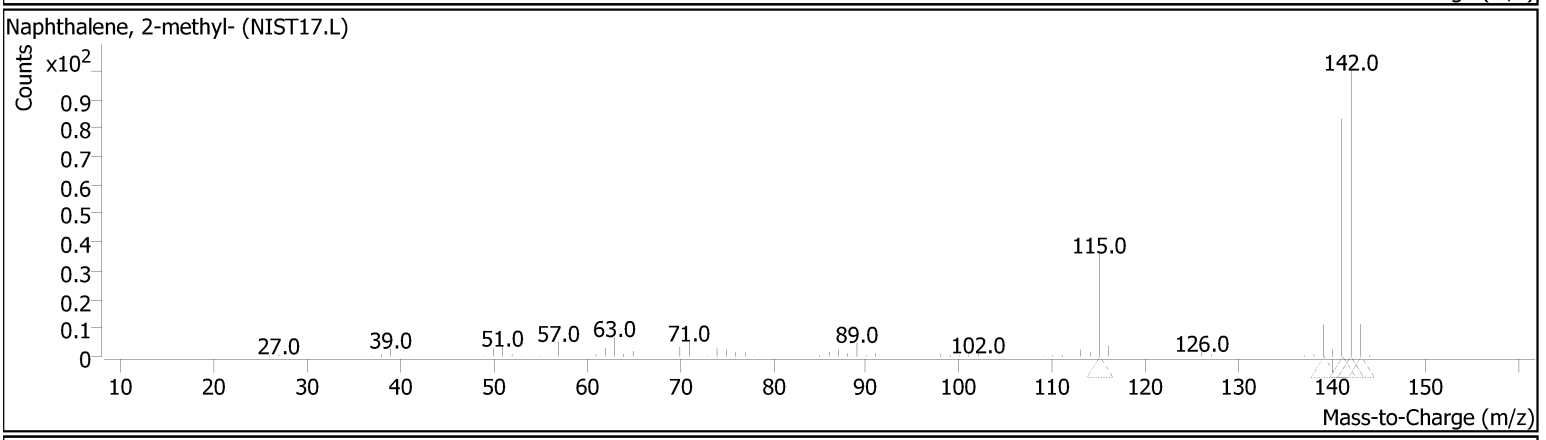



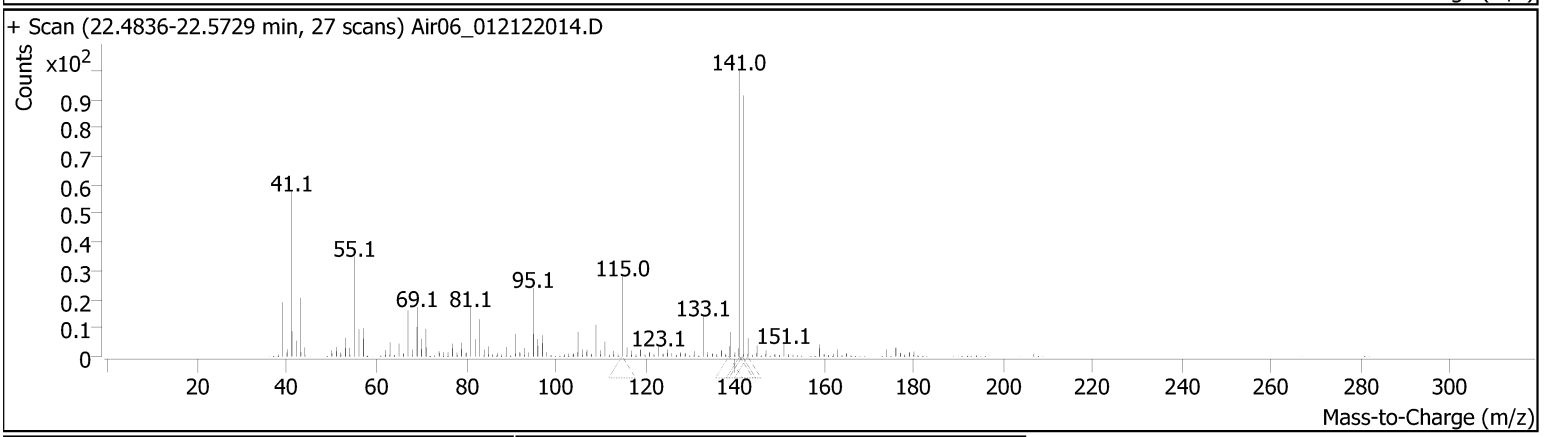



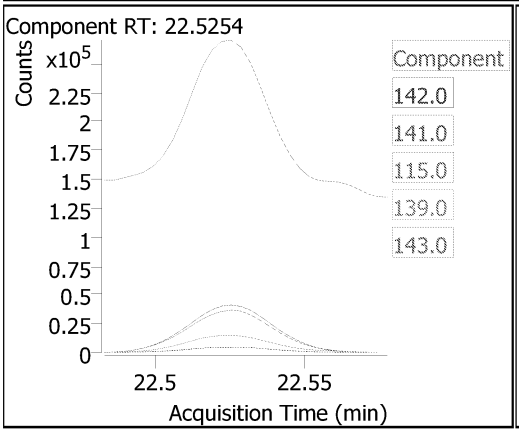



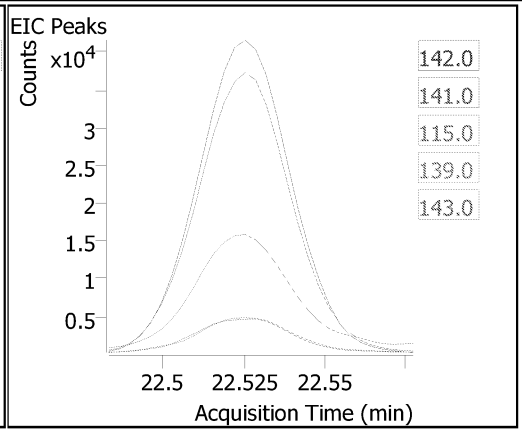
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.5254 | Naphthalene, 2-methyl- | 583019.3 | 92.9 | 91-57-6 | C11H10 | 1.222 |

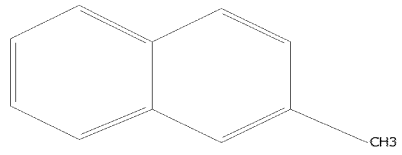


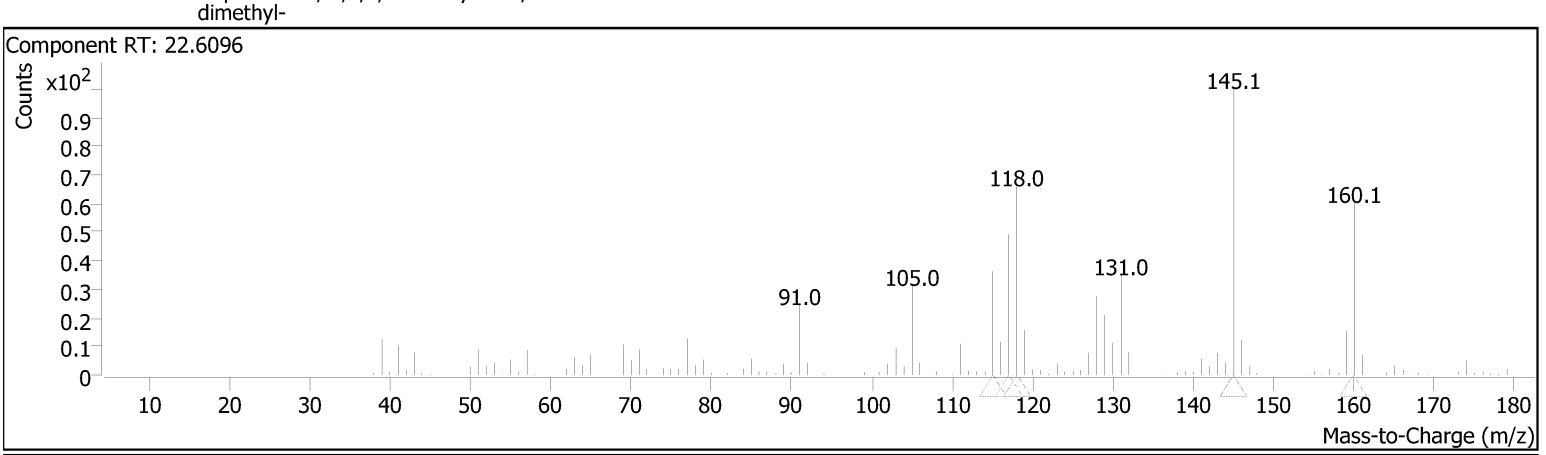



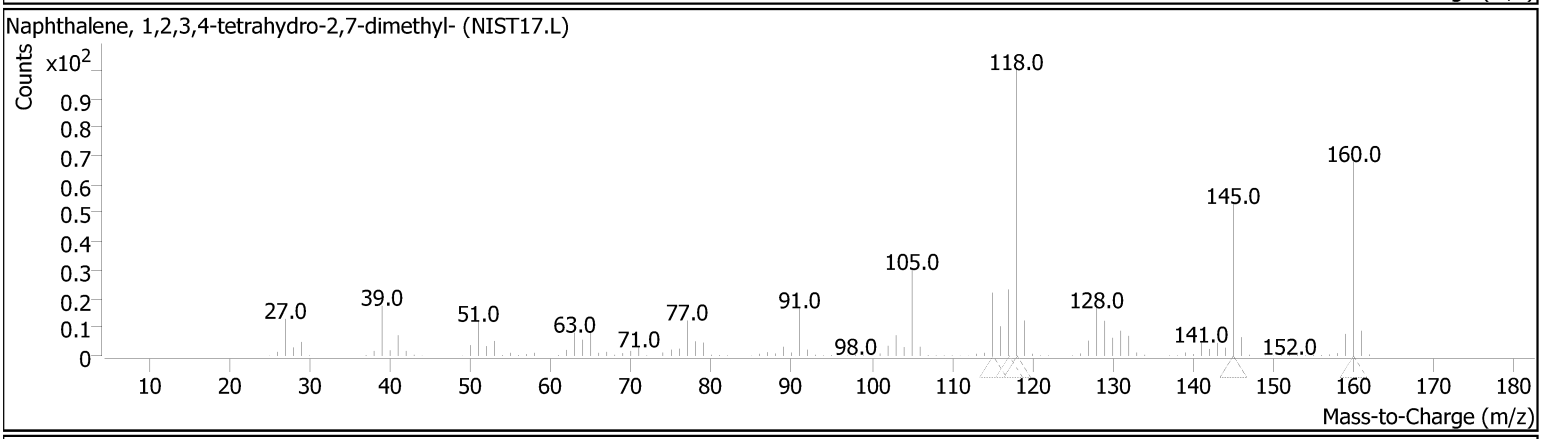



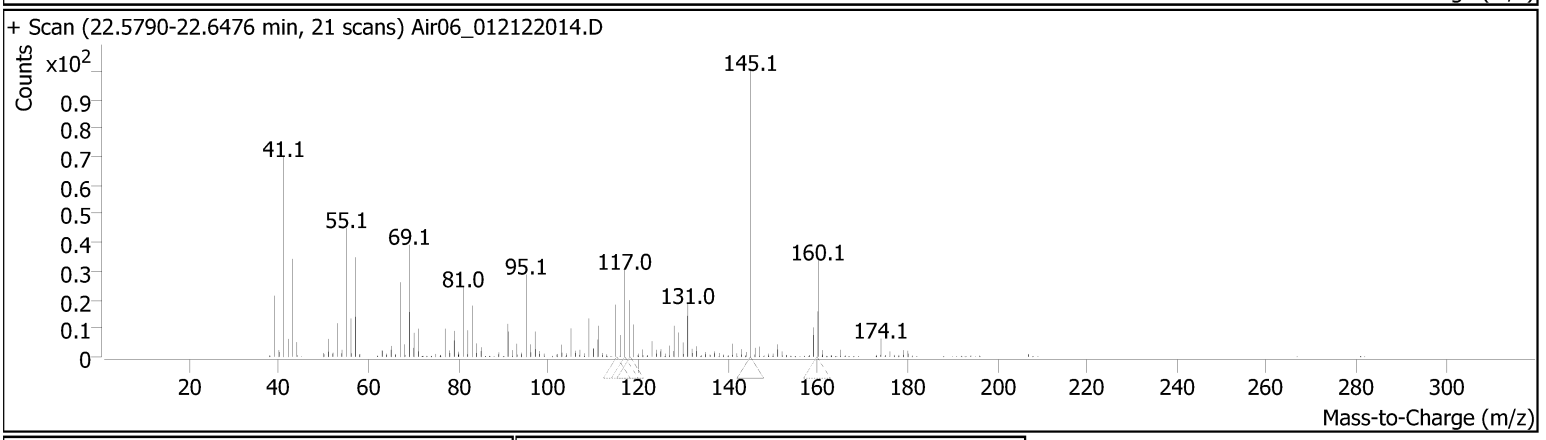
# Library Search Results - NonTarget Hits with Details

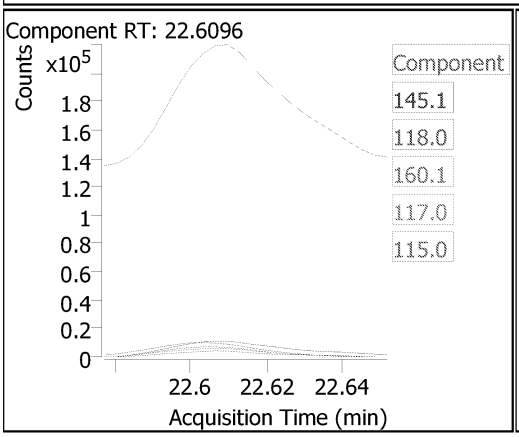
Agilent Technologies

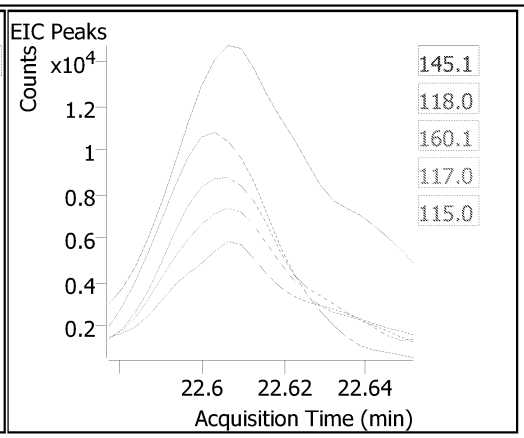
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.6096 | Naphthalene, 1,2,3,4-tetrahydro-2,7-dimethyl- | 413440.2 | 90.1 | 13065-07-1 | C12H16 | 0.8666 |

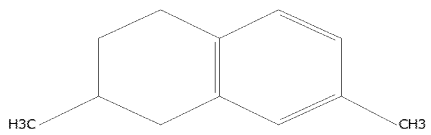


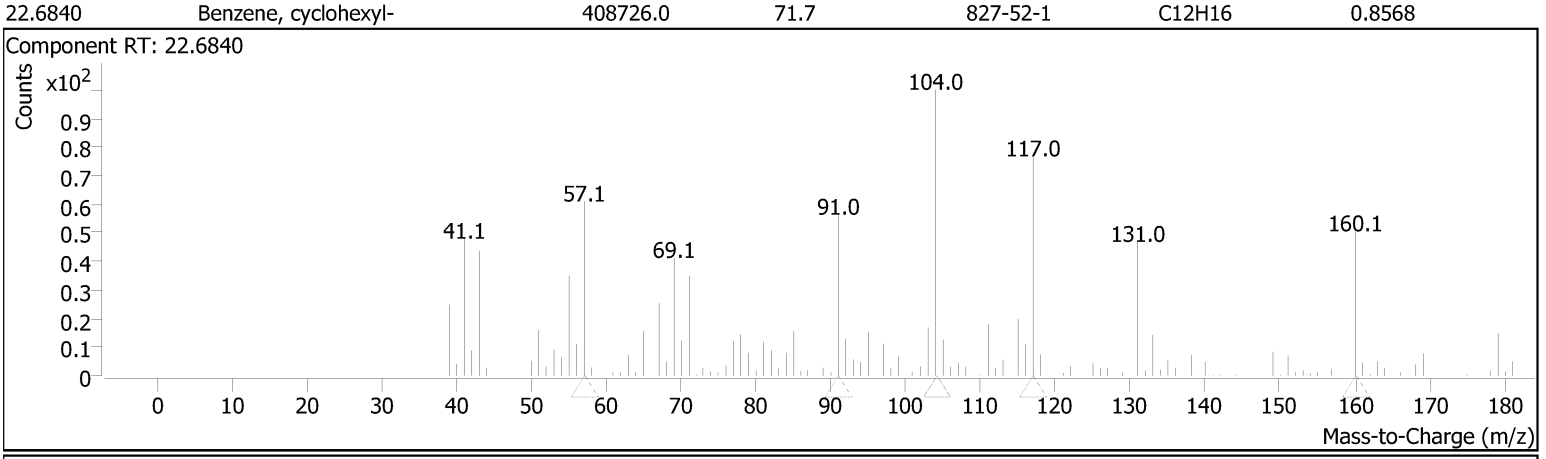



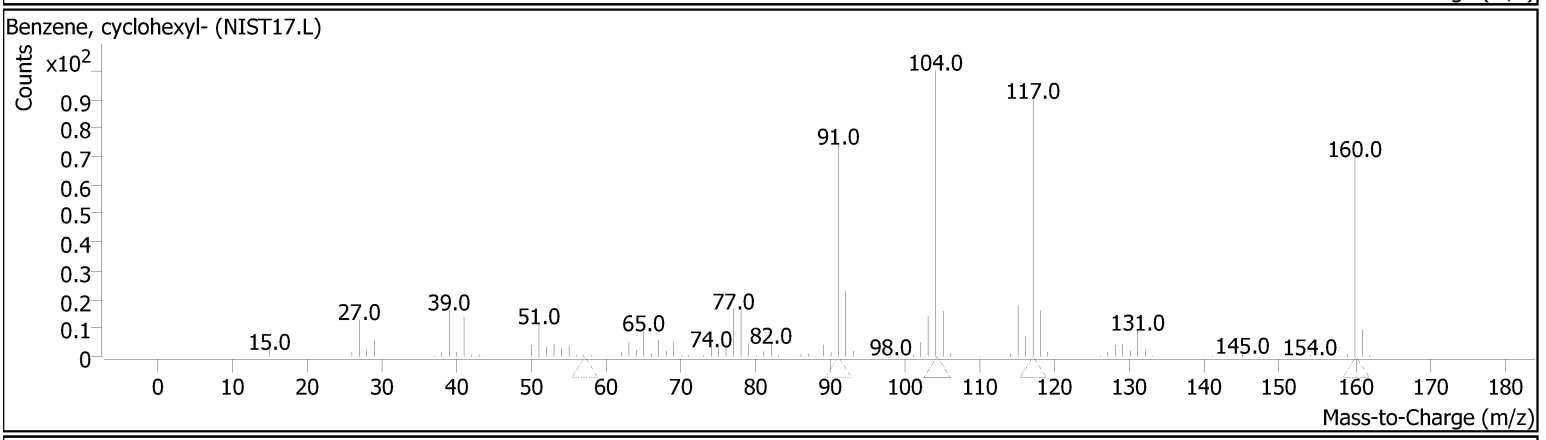



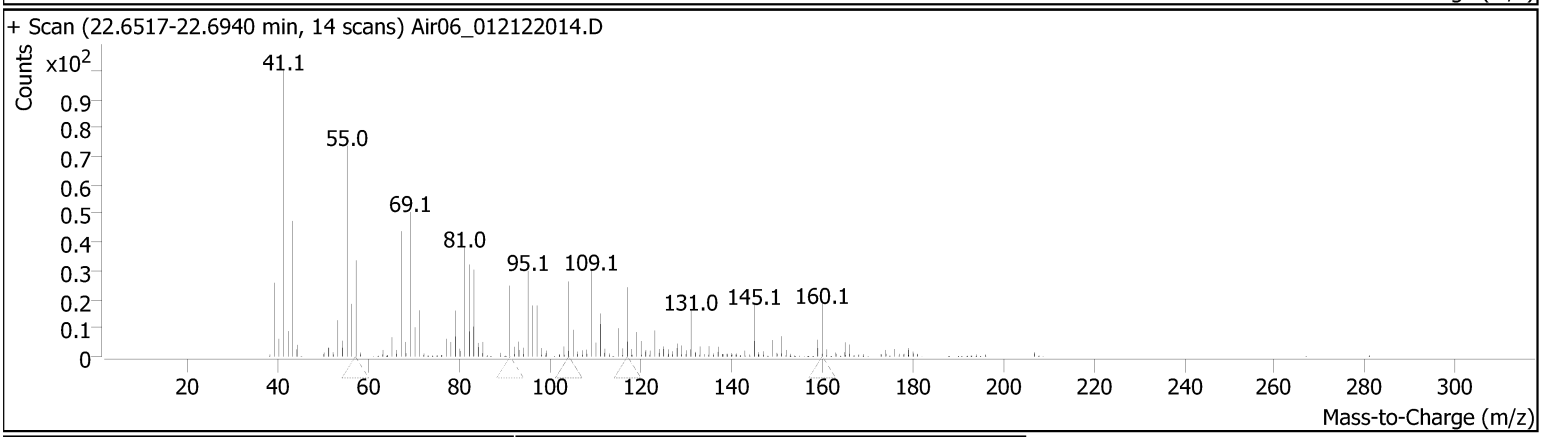



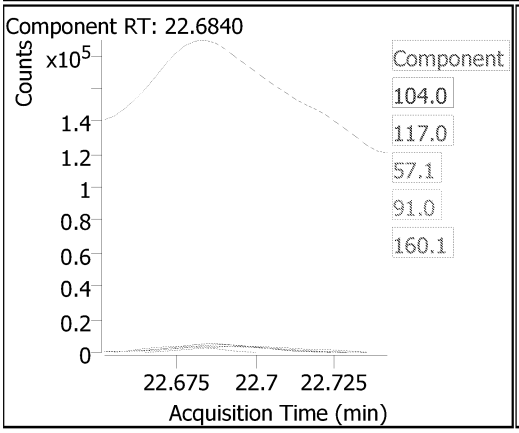



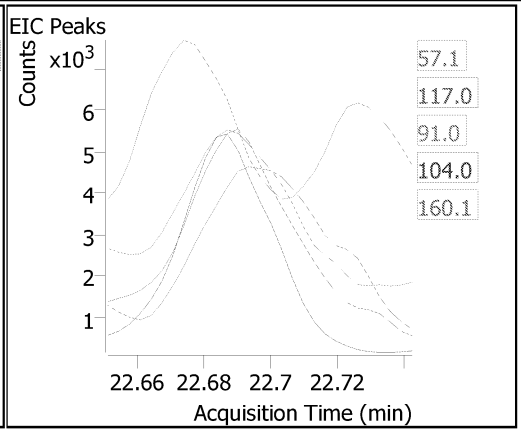
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.6840 | Benzene, cyclohexyl- | 408726.0 | 71.7 | 827-52-1 | C12H16 | 0.8568 |

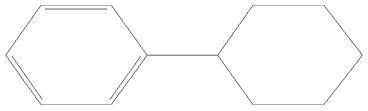


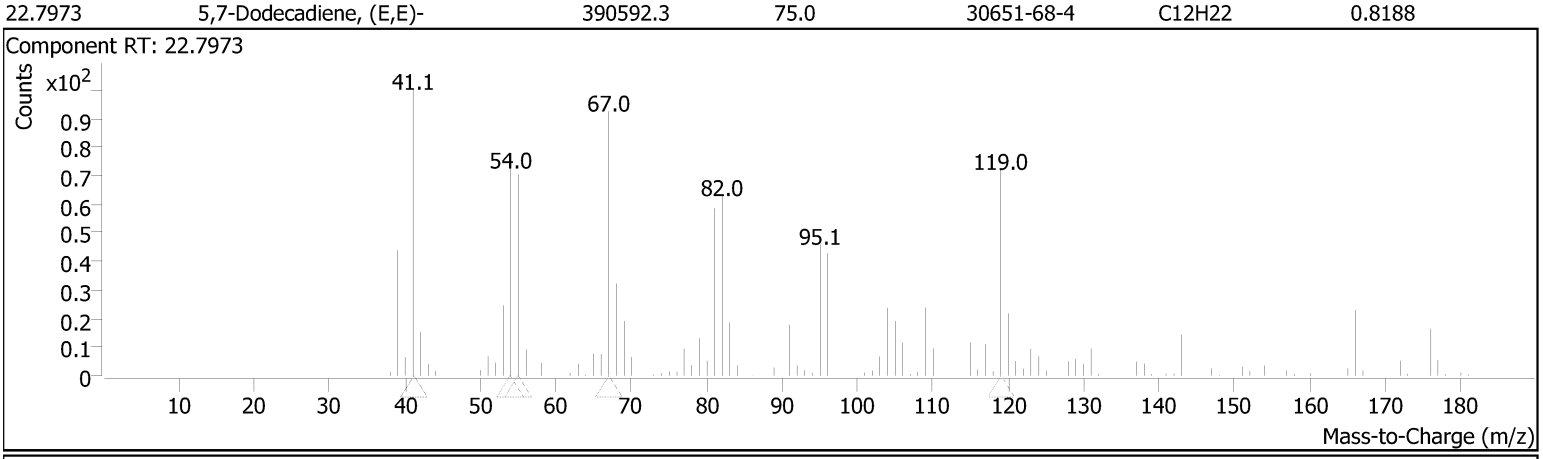



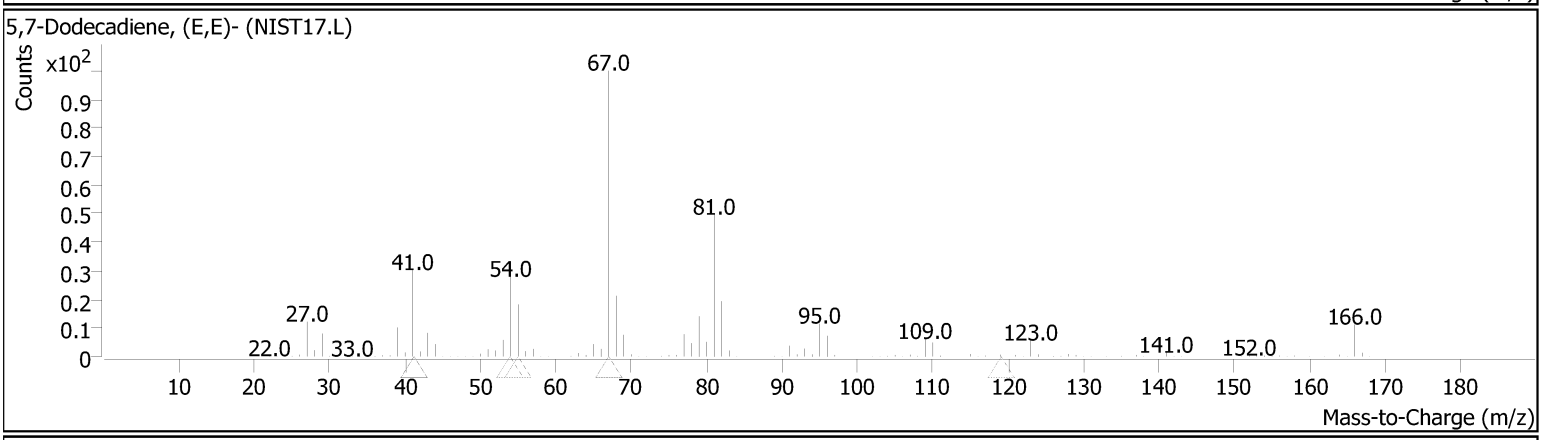



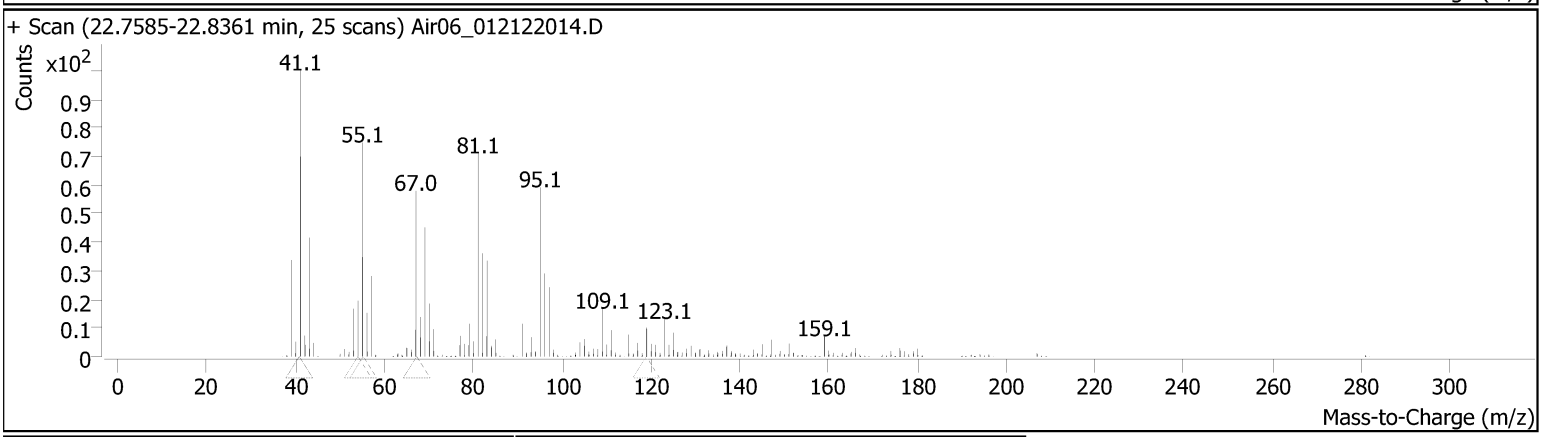



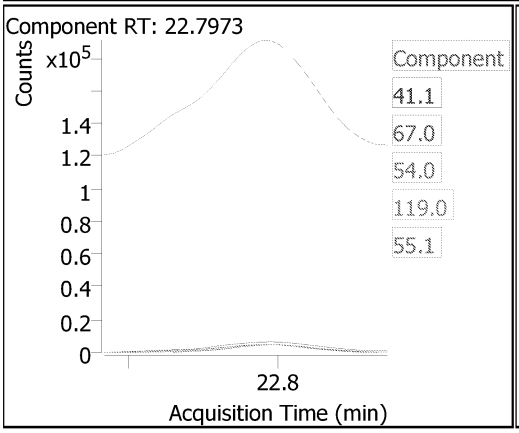



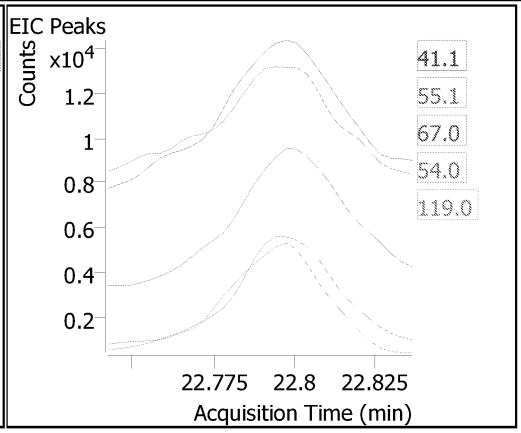
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.7973 | 5,7-Dodecadiene, (E,E)- | 390592.3 | 75.0 | 30651-68-4 | C12H22 | 0.8188 |



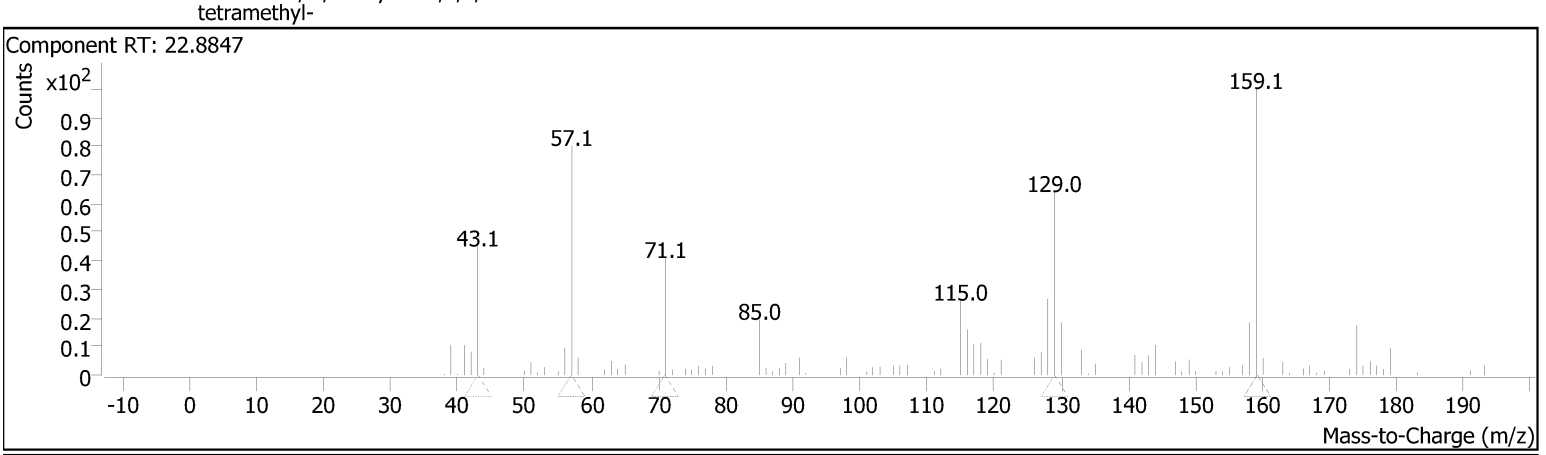



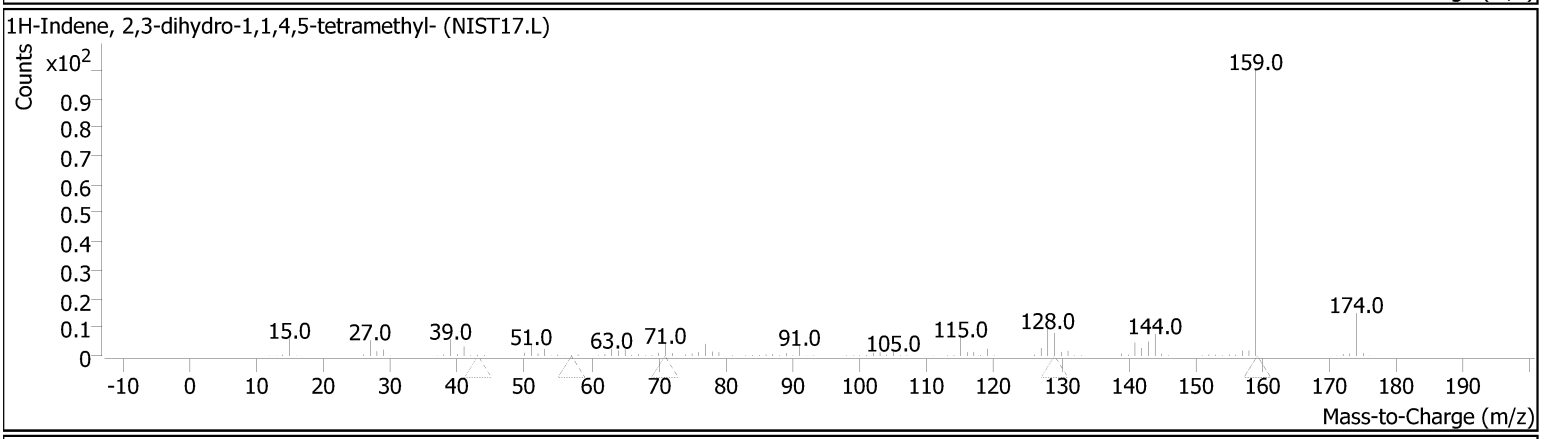



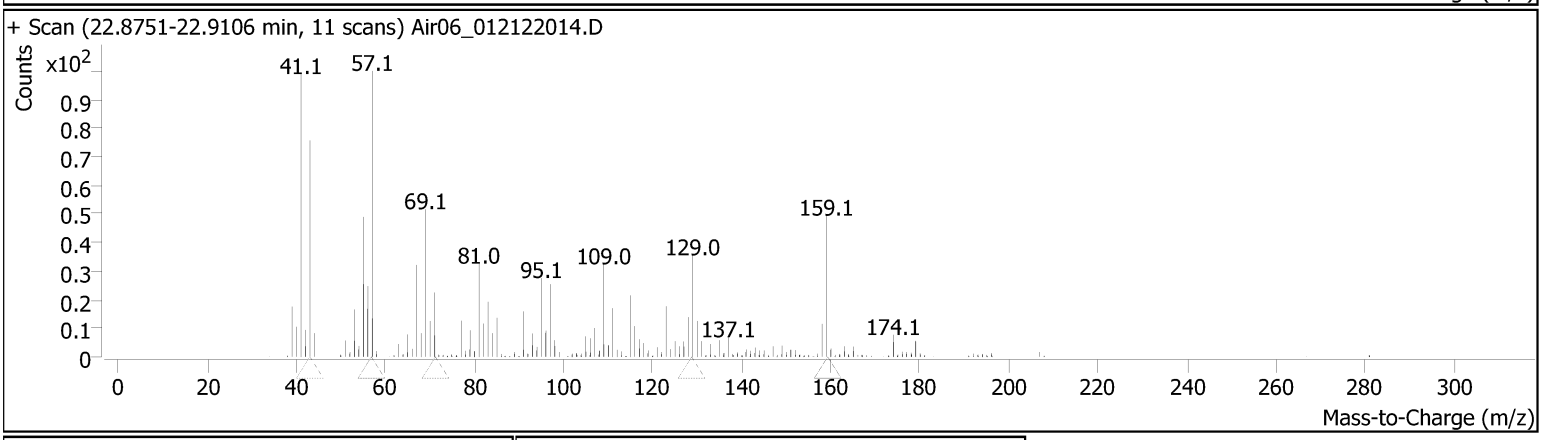



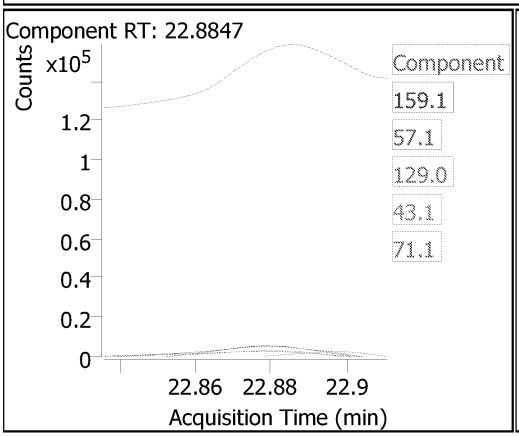


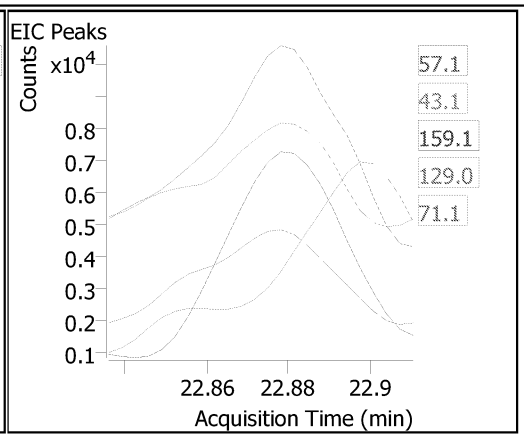

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.8847 | 1H-Indene, 2,3-dihydro-1,1,4,5-tetramethyl- | 257026.2 | 72.1 | 16204-57-2 | C13H18 | 0.5388 |

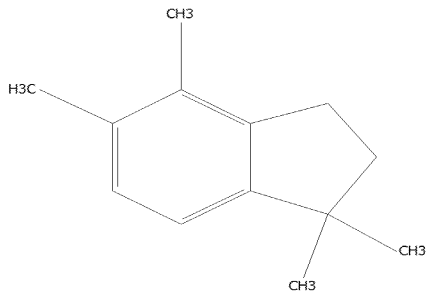


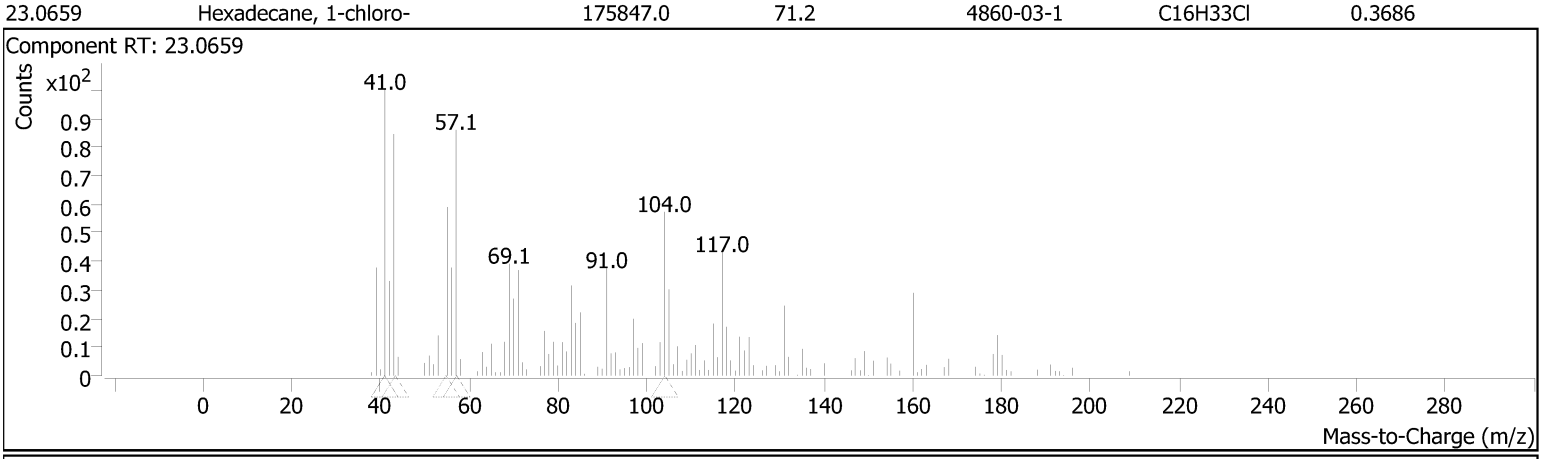



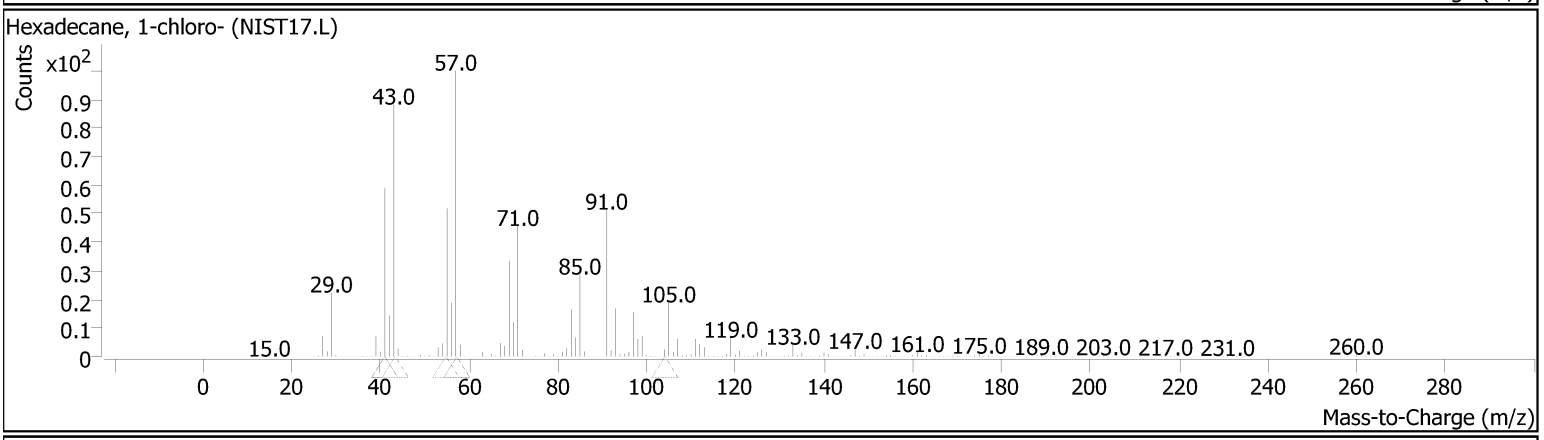



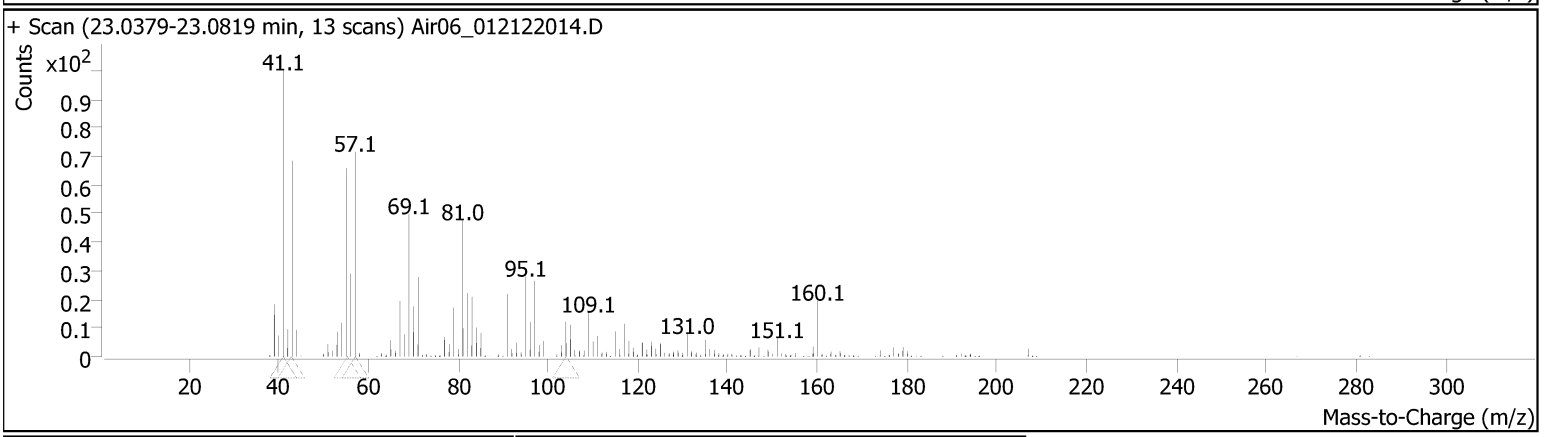



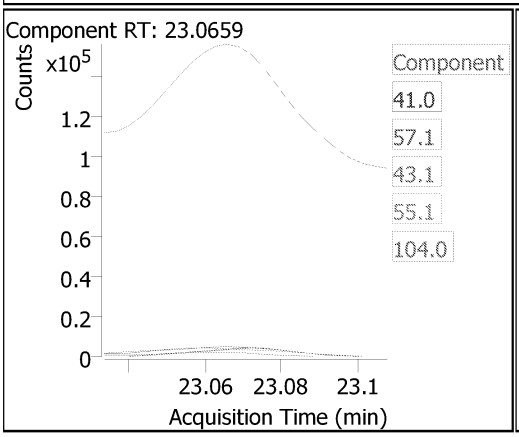



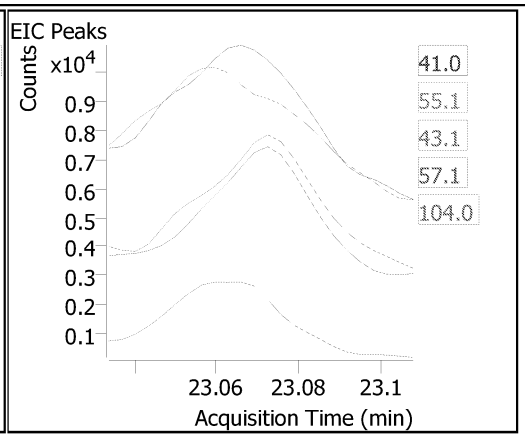
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.0659 | Hexadecane, 1-chloro- | 175847.0 | 71.2 | 4860-03-1 | C16H33Cl | 0.3686 |



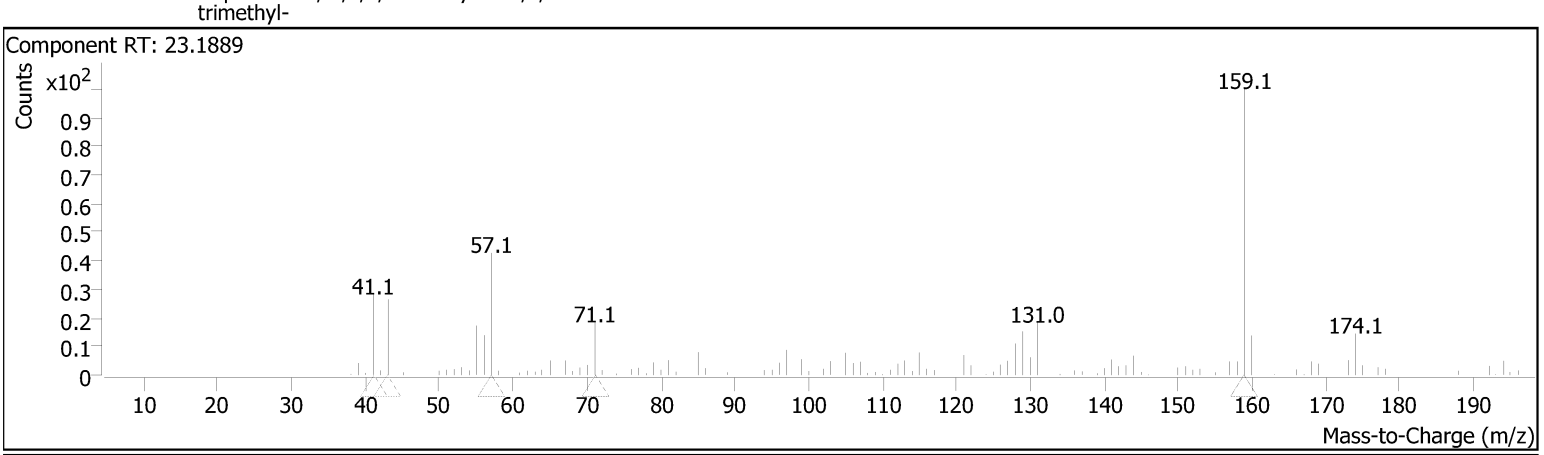



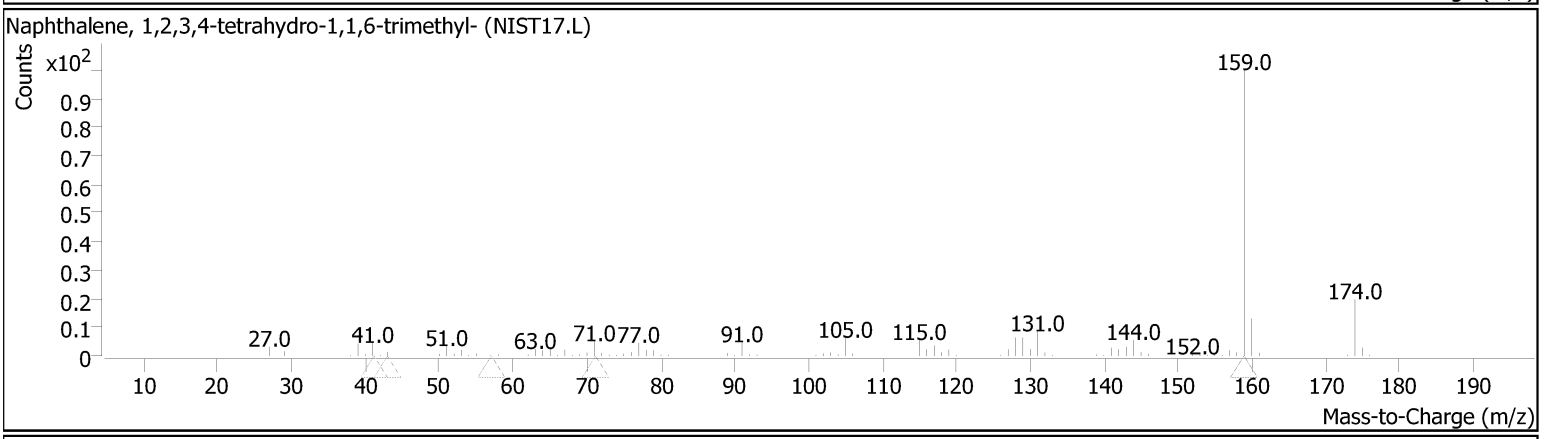


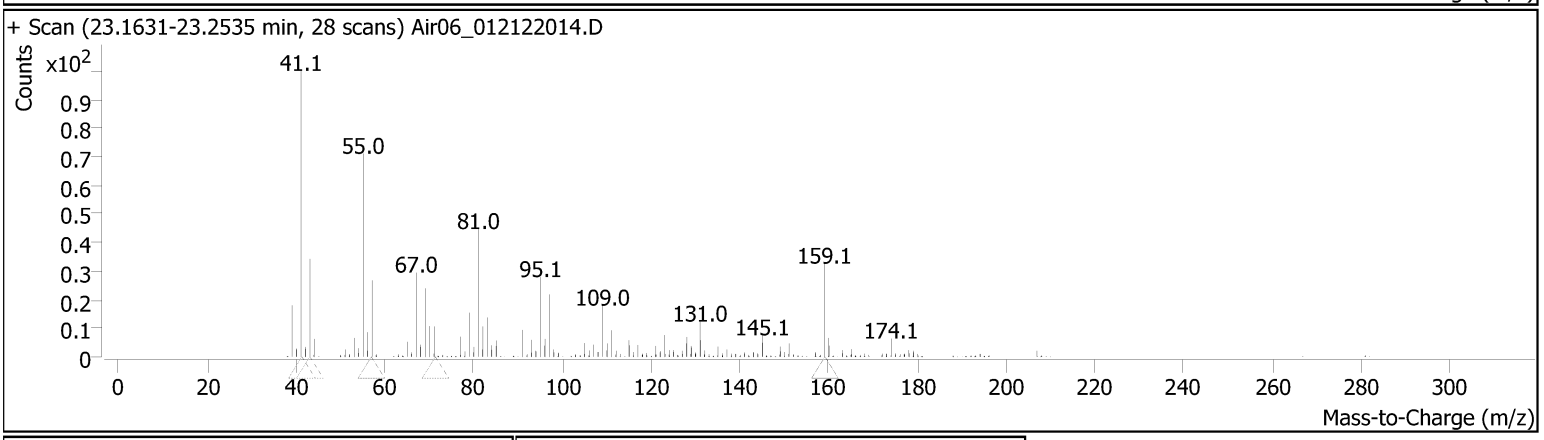

# Library Search Results - NonTarget Hits with Details

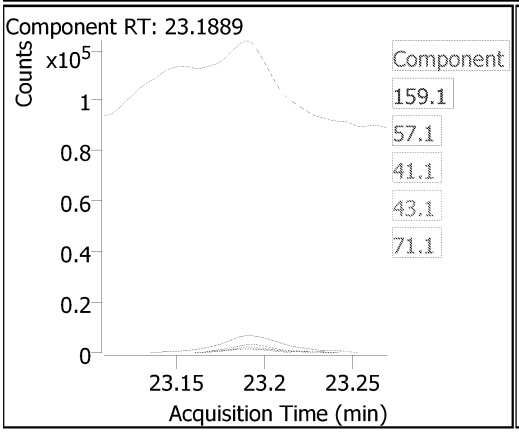
Agilent Technologies

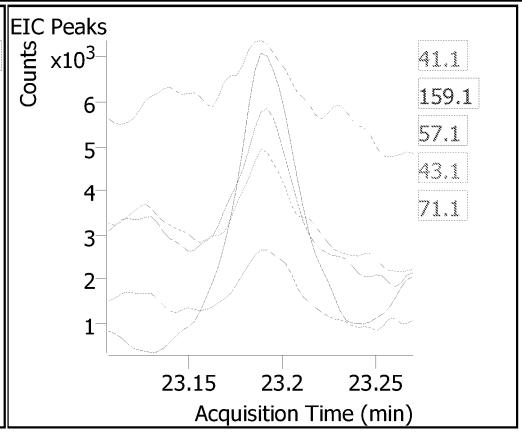
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.1889 | Naphthalene, 1,2,3,4-tetrahydro-1,1,6-trimethyl- | 157357.0 | 71.7 | 475-03-6 | C13H18 | 0.3298 |

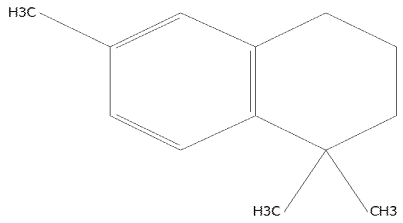


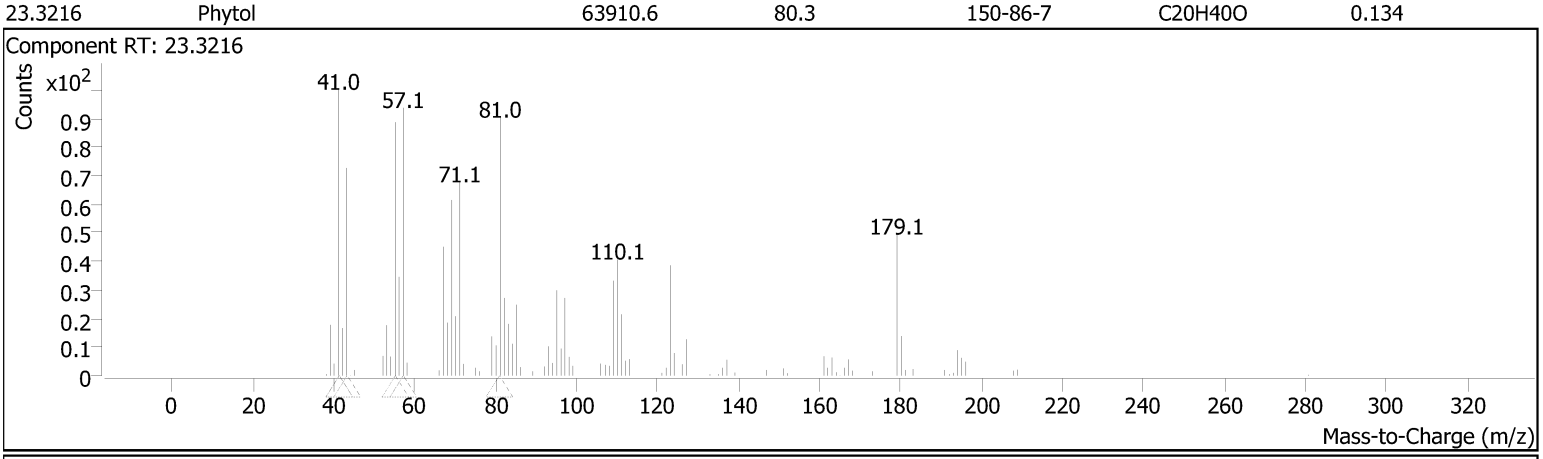



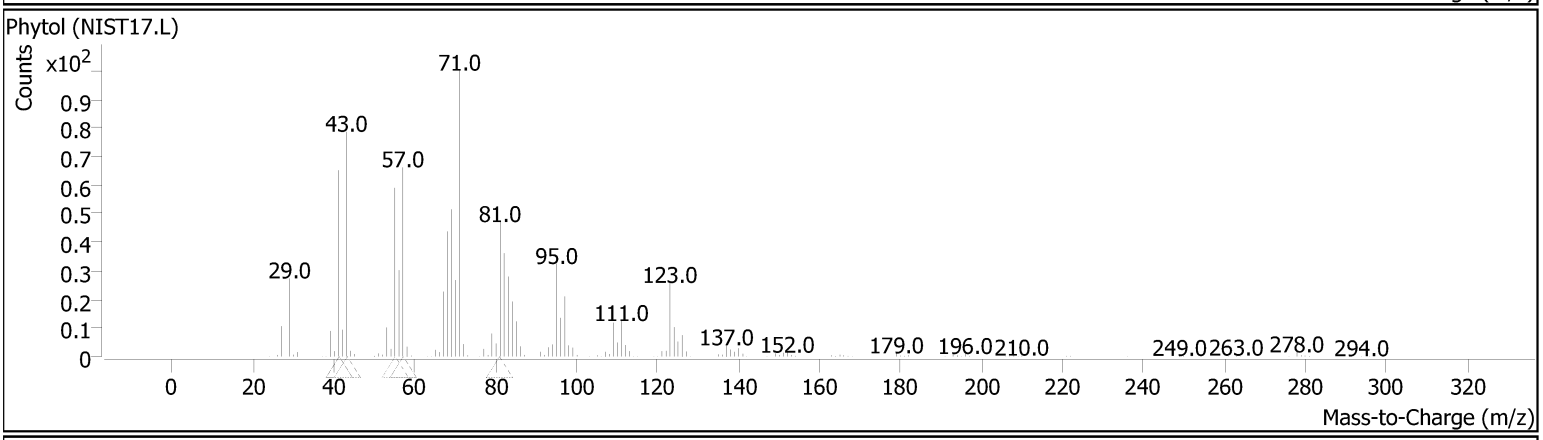



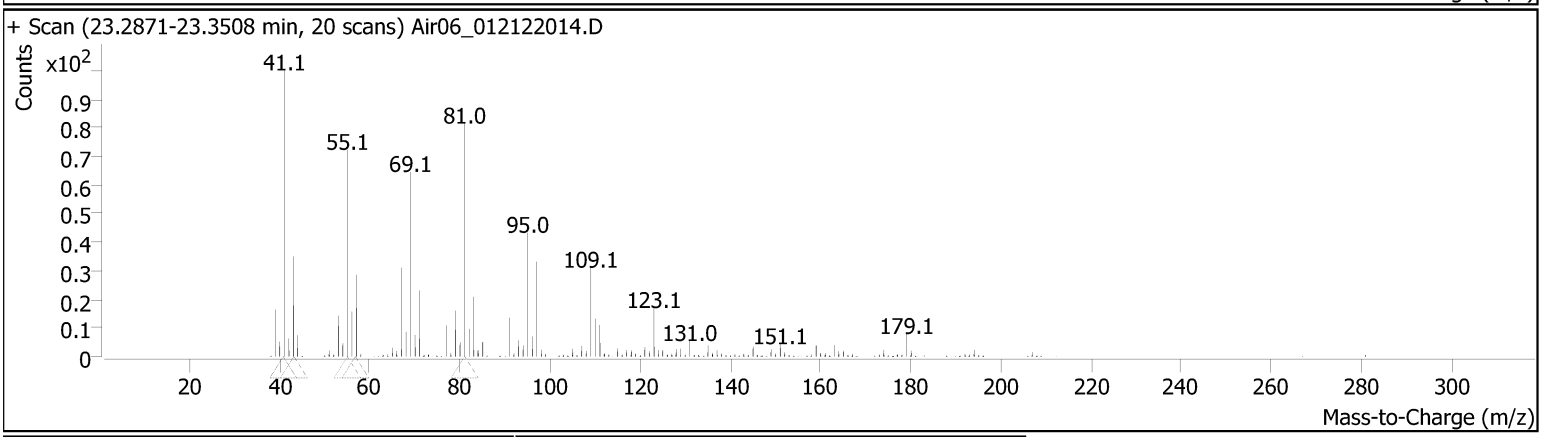



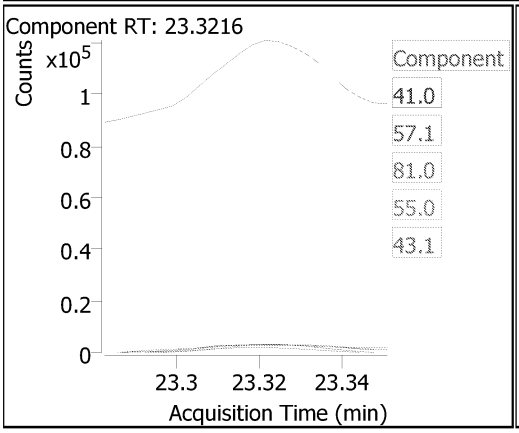



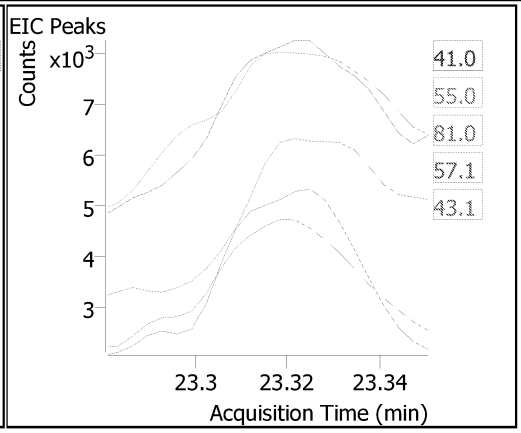
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3216 | Phytol | 63910.6 | 80.3 | 150-86-7 | C20H40O | 0.134 |

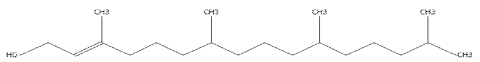


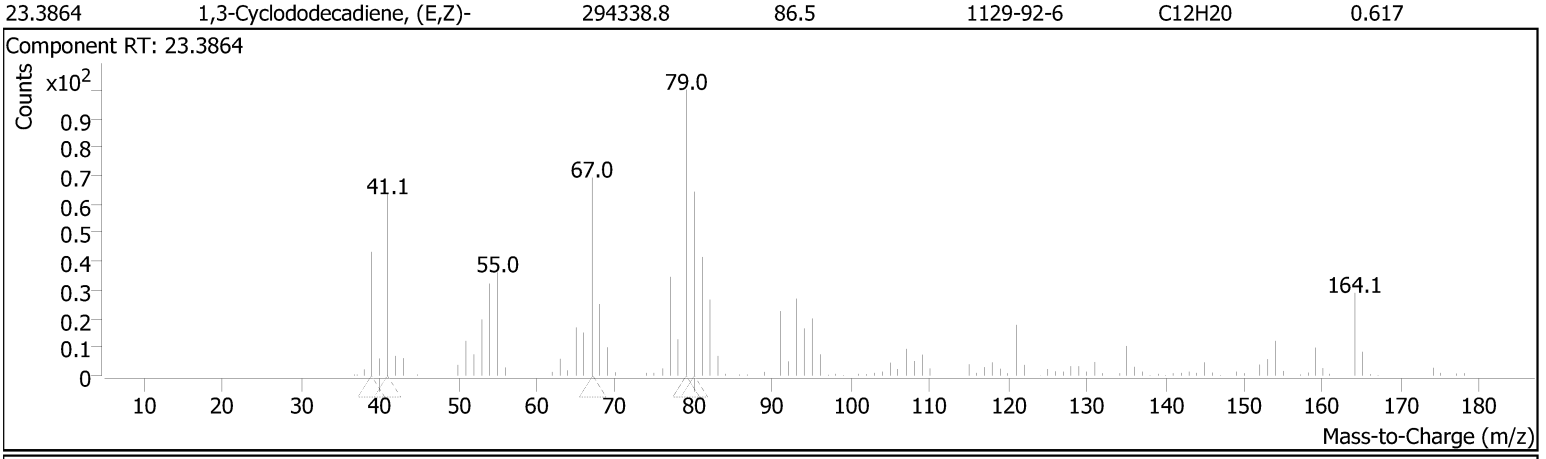



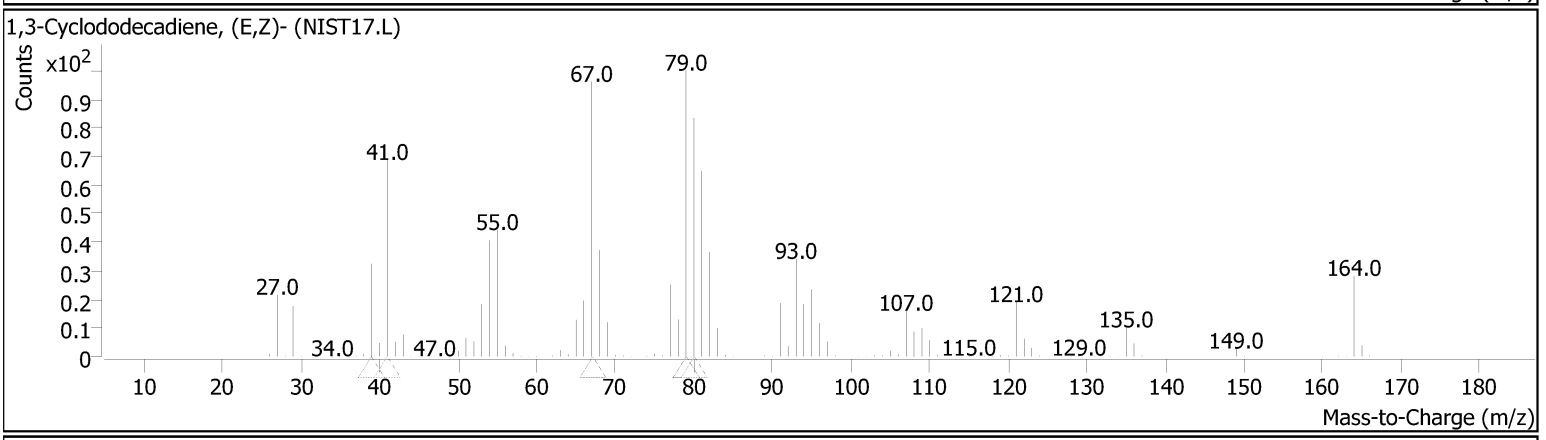



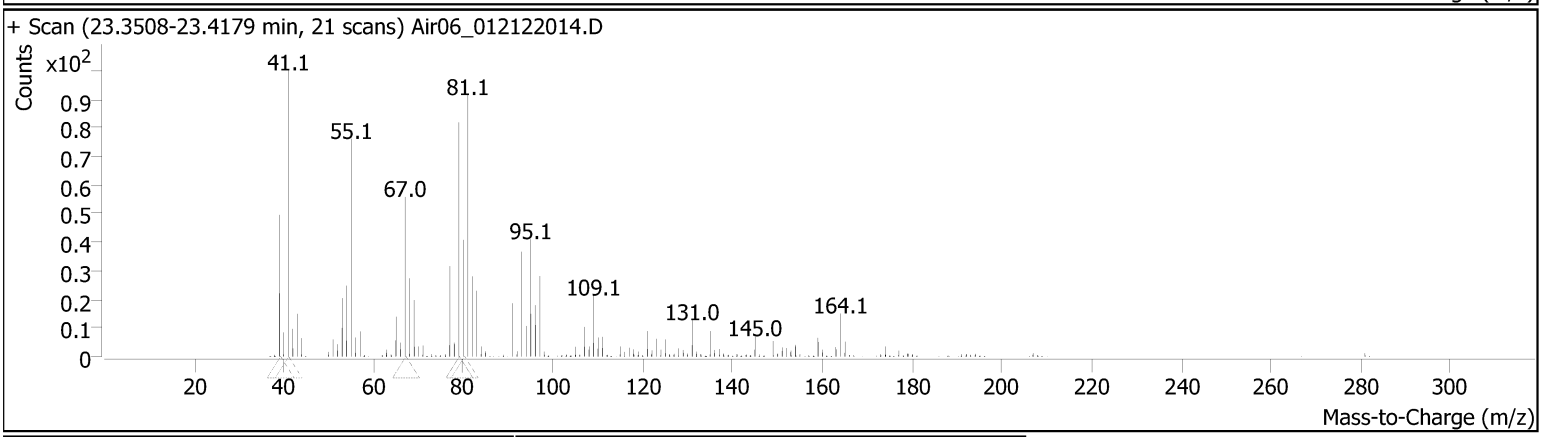
# Library Search Results - NonTarget Hits with Details

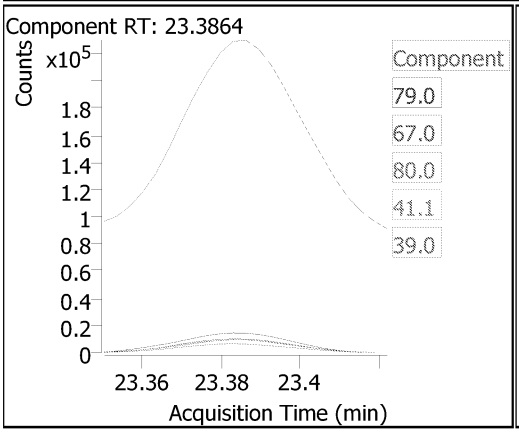
Agilent Technologies

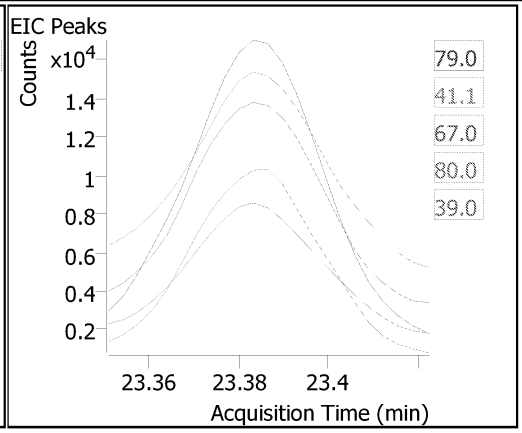
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3864 | 1,3-Cyclododecadiene, (E,Z)- | 294338.8 | 86.5 | 1129-92-6 | C12H20 | 0.617 |

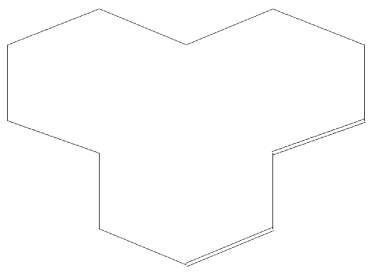


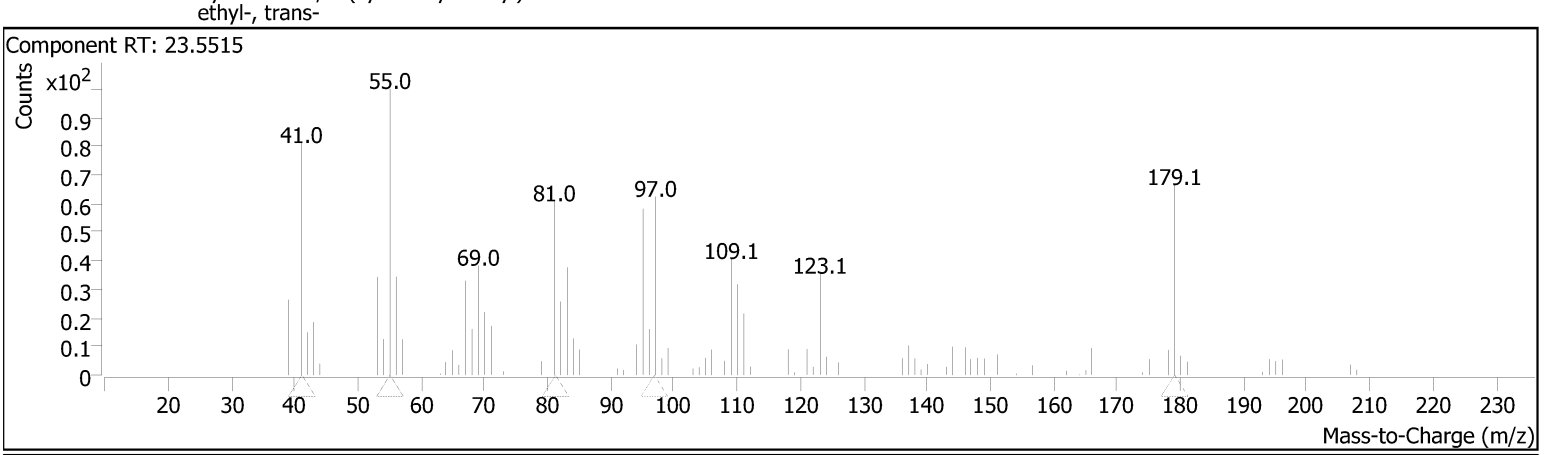



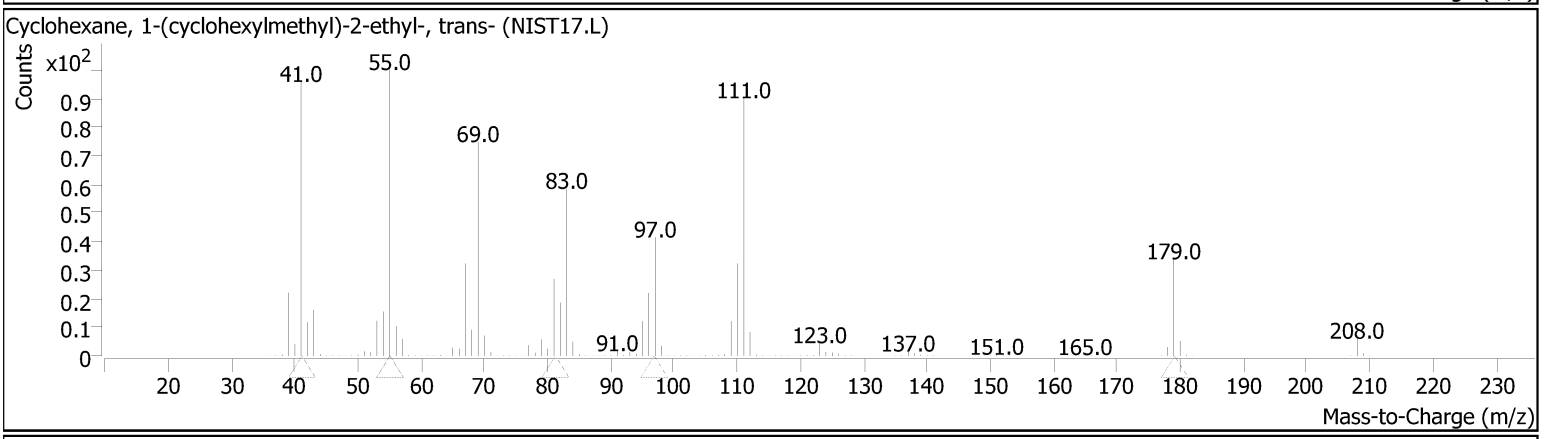



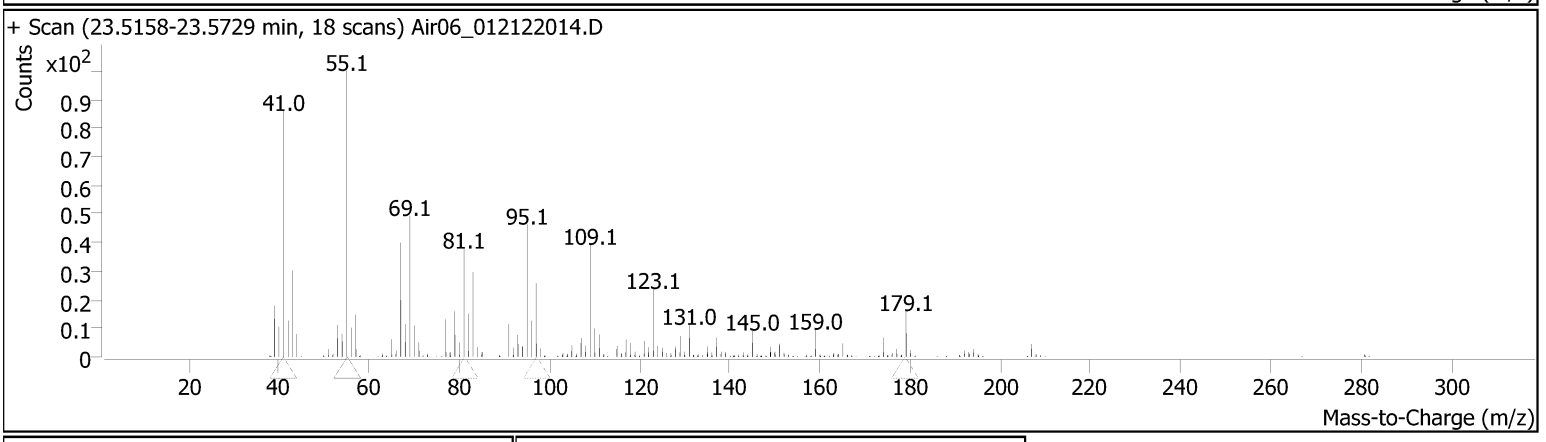



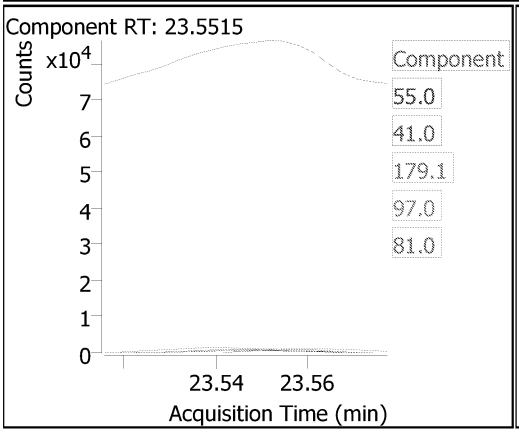



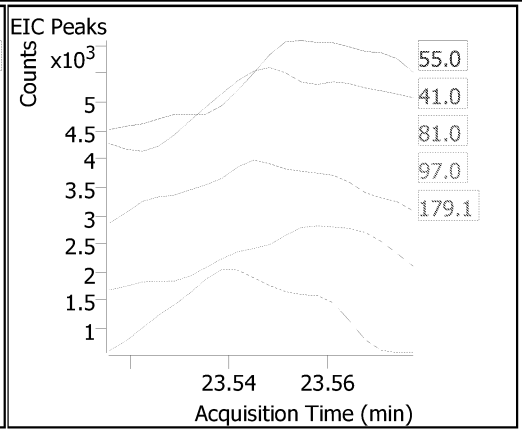
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.5515 | Cyclohexane, 1-(cyclohexylmethyl)-2-ethyl-, trans- | 31139.7 | 74.8 | 54934-92-8 | C15H28 | 0.06527 |

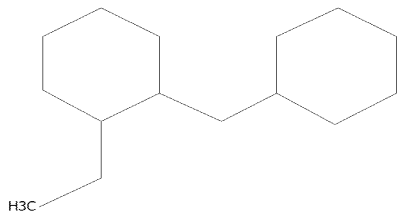


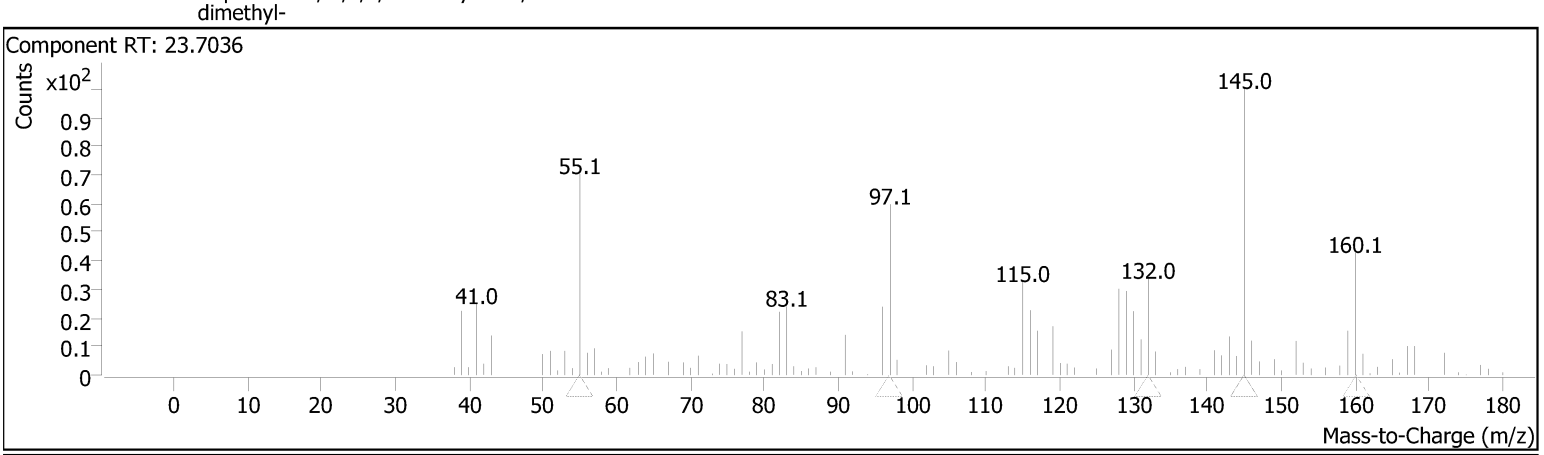



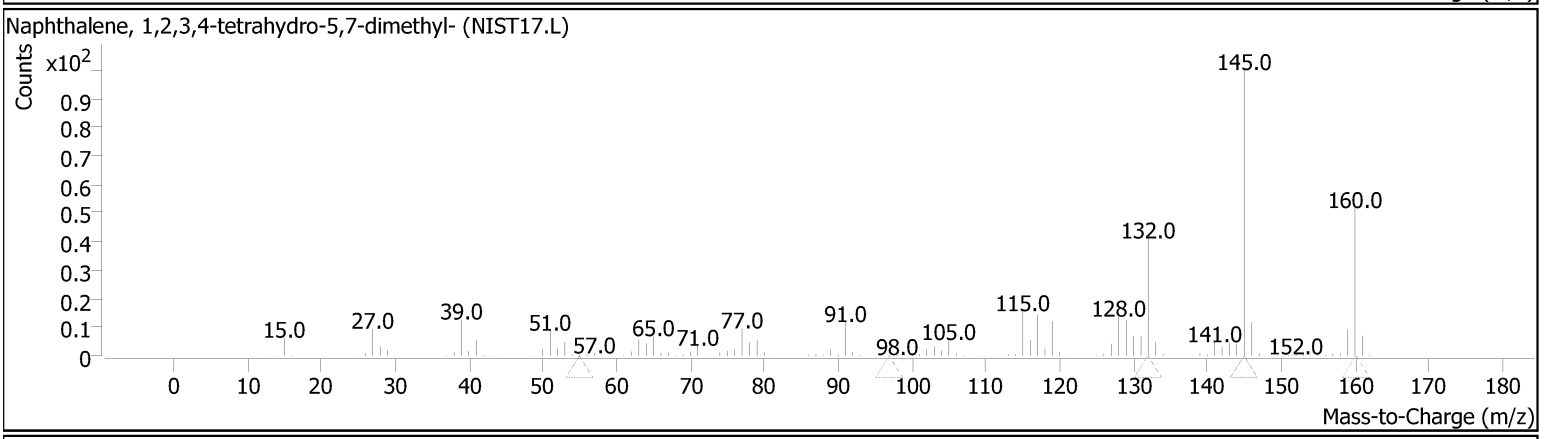



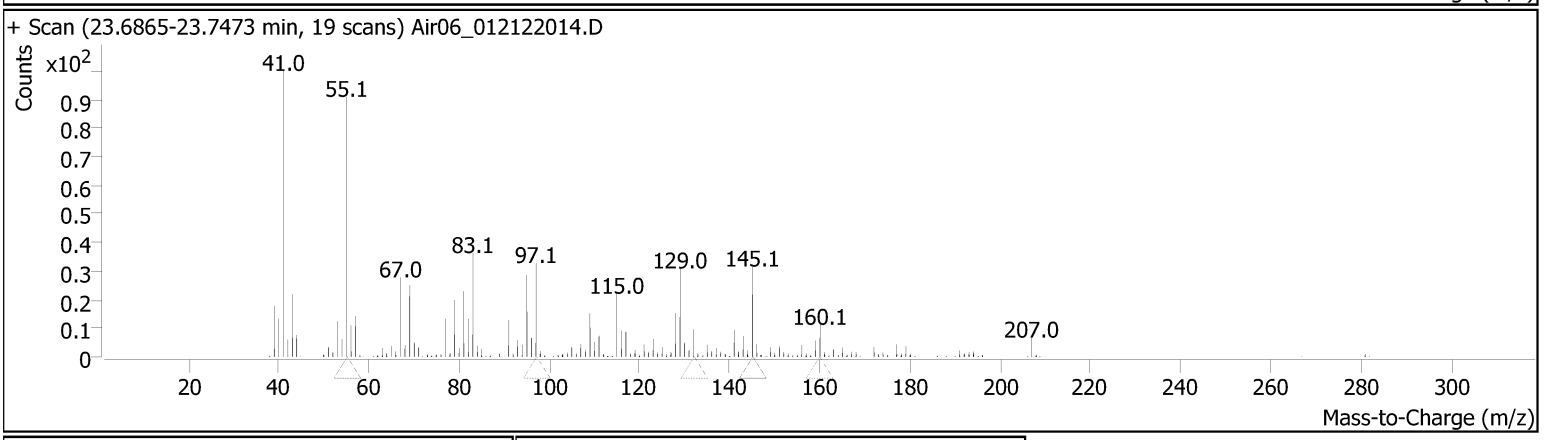



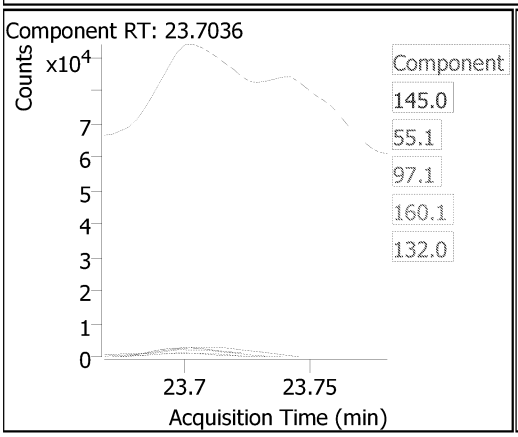



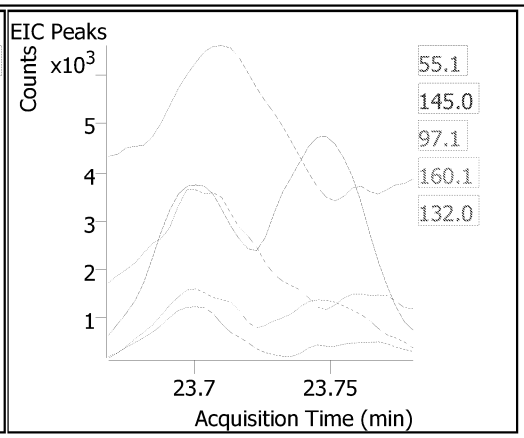
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.7036 | Naphthalene, 1,2,3,4-tetrahydro-5,7-dimethyl- | 115340.2 | 75.2 | 21693-54-9 | C12H16 | 0.2418 |

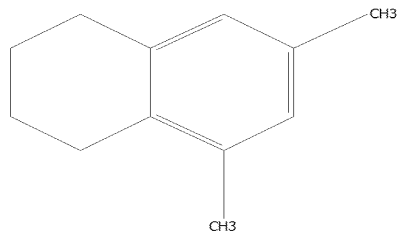


ENTHALPY SAMPLE USER REPORT FOR EPA TO-15

| | | | | | |
|---|---|---|---|---|---|
| Inst | : AIR-MS-06 | Lab ID | : 456991-008 C10582 | Client ID | : SVMP-20D |
| Seqnum | : 372030848017.1 | Matrix | : Air | Acct | : ELEMENT (JG) |
| File | : air06_012122017 | Batch | : 282262 | Time | : 22-JAN-2022 07:55 |
| Cal | : 372007975001 | Caldate | : 05-JAN-2022 | | |
| IDF | : 2.0 | Raw Units | : nL/L | Units | : nL/L |
| PDF | : 1.0 | | | | |

| Analyte | Raw | Result | RL | Blank | Flags |
|---|---|---|---|---|---|
| Freon 12 | 0.2699 | 0.54 | 0.40 | | u |
| Freon 114 | 0.007019 | ND | 0.40 | | u |
| Chloromethane | 0.02969 | ND | 0.40 | | calc u |
| Vinyl Chloride | 0.02388 | ND | 0.40 | | u |
| Bromomethane | 0 | ND | 0.40 | | u |
| Chloroethane | 0.4265 | 0.85 | 0.40 | | u |
| Trichlorofluoromethane | 0.1067 | ND | 0.40 | | u |
| 1,1-Dichloroethene | 0.0005659 | ND | 0.40 | | u |
| Freon 113 | 0.02987 | ND | 0.40 | | u |
| Acetone | 1.621 | 3.2 | 2.0 | 0.18 | u |
| Carbon Disulfide | 0.2780 | 0.56 | 0.40 | | u |
| Isopropanol (IPA) | 2.266 | 4.5 | 2.0 | | u |
| Methylene Chloride | 0.1349 | ND | 0.40 | 0.26 | u |
| trans-1,2-Dichloroethene | 0.03954 | ND | 0.40 | | calc u |
| MTBE | 0.008322 | ND | 0.40 | | u |
| n-Hexane | 0.04236 | ND | 0.40 | | calc u |
| 1,1-Dichloroethane | 0.002079 | ND | 0.40 | | u |
| Vinyl Acetate | 0.1448 | ND | 2.0 | | u |
| cis-1,2-Dichloroethene | 0.01488 | ND | 0.40 | | u |
| 2-Butanone | 0.1658 | ND | 2.0 | | u |
| Chloroform | 0.03385 | ND | 0.40 | | u |
| 1,1,1-Trichloroethane | 0 | ND | 0.40 | | u |
| Carbon Tetrachloride | 0.03207 | ND | 0.40 | | u |
| Benzene | 0.01753 | ND | 0.40 | | u |
| 1,2-Dichloroethane | 0.03685 | ND | 0.40 | | u |
| Trichloroethene | 0.01945 | ND | 0.40 | | u |
| 1,2-Dichloropropane | 0.04628 | ND | 0.40 | | u |
| Bromodichloromethane | 0.003254 | ND | 0.40 | | u |
| cis-1,3-Dichloropropene | 0 | ND | 0.40 | | u |
| 4-Methyl-2-Pentanone | 0.02666 | ND | 0.40 | | calc u |
| Toluene | 0.07614 | ND | 0.40 | | u |
| trans-1,3-Dichloropropene | 0.002125 | ND | 0.40 | | u |
| 1,1,2-Trichloroethane | 0.001728 | ND | 0.40 | | u |
| Tetrachloroethene | 0.01166 | ND | 0.40 | | u |
| 2-Hexanone | 0.03763 | ND | 1.0 | | calc u |
| Dibromochloromethane | 0 | ND | 0.40 | | u |
| 1,2-Dibromoethane | 0.002410 | ND | 0.40 | | u |
| Chlorobenzene | 0.006162 | ND | 0.40 | | u |
| Ethylbenzene | 0.05636 | ND | 0.40 | | u |
| m,p-Xylenes | 0.2395 | ND | 0.80 | | u |
| o-Xylene | 0.1467 | ND | 0.40 | | u |
| Styrene | 0.05920 | ND | 0.40 | | u |
| Bromoform | 0.001388 | ND | 0.40 | | u |
| 1,1,2,2-Tetrachloroethane | 0.001719 | ND | 0.40 | | u |
| 1,1,1,2-Tetrachloroethane | 0.002001 | ND | 0.40 | | u |
| 4-Ethyltoluene | 0.06409 | ND | 0.40 | | u |
| 1,3,5-Trimethylbenzene | 0.1422 | ND | 0.40 | | u |
| 1,2,4-Trimethylbenzene | 0.4862 | 0.97 | 0.40 | | u |

| Analyte | Raw | Result | RL | Blank | Flags |
|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.1280 | ND | 0.40 | | u |
| 1,4-Dichlorobenzene | 0.1266 | ND | 0.40 | | u |
| Benzyl chloride | 0.004456 | ND | 0.40 | | u |
| 1,2-Dichlorobenzene | 0.01741 | ND | 0.40 | | u |
| 1,2,4-Trichlorobenzene | 0.009767 | ND | 0.40 | | u |
| Hexachlorobutadiene | 0.002247 | ND | 0.40 | | u |

| Tentatively Identified Compound | CAS # | Raw | Units | Result | Units |
|---|---|---|---|---|---|
| Benzene, (1,2-dimethylpropyl)- | 4481-30-5 | 1.7 | nL/L | 3.4 | nL/L |
| Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | 1.8 | nL/L | 3.6 | nL/L |
| Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | 2.6 | nL/L | 5.1 | nL/L |
| Dodecane | 112-40-3 | 4.7 | nL/L | 9.5 | nL/L |
| Hexanol-1, 6-cyclohexyl- | 4354-58-9 | 2.5 | nL/L | 5.0 | nL/L |
| Naphthalene, decahydro-2-methyl | 2958-76-1 | 2.4 | nL/L | 4.9 | nL/L |
| Tridecane | 629-50-5 | 2.6 | nL/L | 5.2 | nL/L |
| Tridecane, 7-methyl- | 26730-14-3 | 2.0 | nL/L | 4.0 | nL/L |
| Undecane | 1120-21-4 | 3.7 | nL/L | 7.4 | nL/L |
| Undecane, 2,6-dimethyl- | 17301-23-4 | 2.7 | nL/L | 5.4 | nL/L |

| Surrogate | Raw | Spiked | Result | %Rec | Limits | Flags |
|---|---|---|---|---|---|---|
| Bromofluorobenzene | 10.38 | 20.00 | 20.77 | 104 | 60-140 | u |

| ISTD (ICAL air06_010522009) | ICAL Area | SAMPLE Area | %Drift | ICAL RT | SAMPLE RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 385575 | -6.23 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1581127 | 1.90 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 780522 | -7.88 | 14.01 | 14.01 | 0.00 |

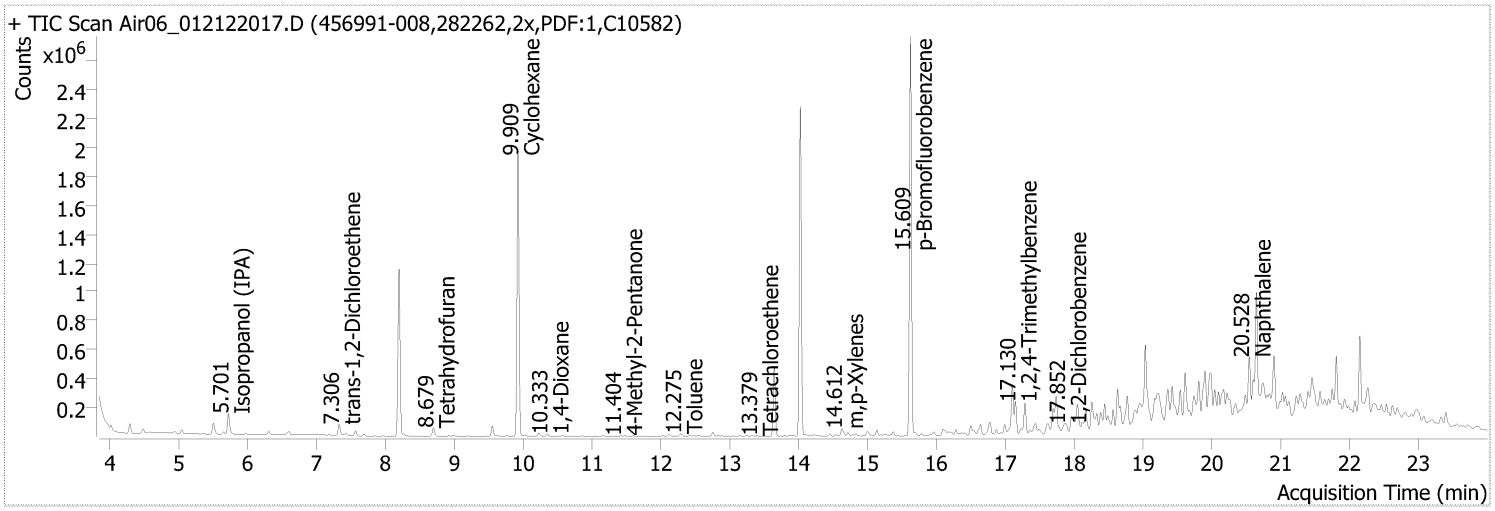
**(not in upper half)**

Analyst: DJL Date: 01/26/22 Reviewer: LW Date: 01/27/22

calc=check quantitation u=use

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012122017.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/22/2022 7:55:53 AM |
| Sample Name | 456991-008,282262,2x,PDF:1,C10582 | Instrument | Air-MS-06 |
| Vial | 14 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 2x400mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 22 0714 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



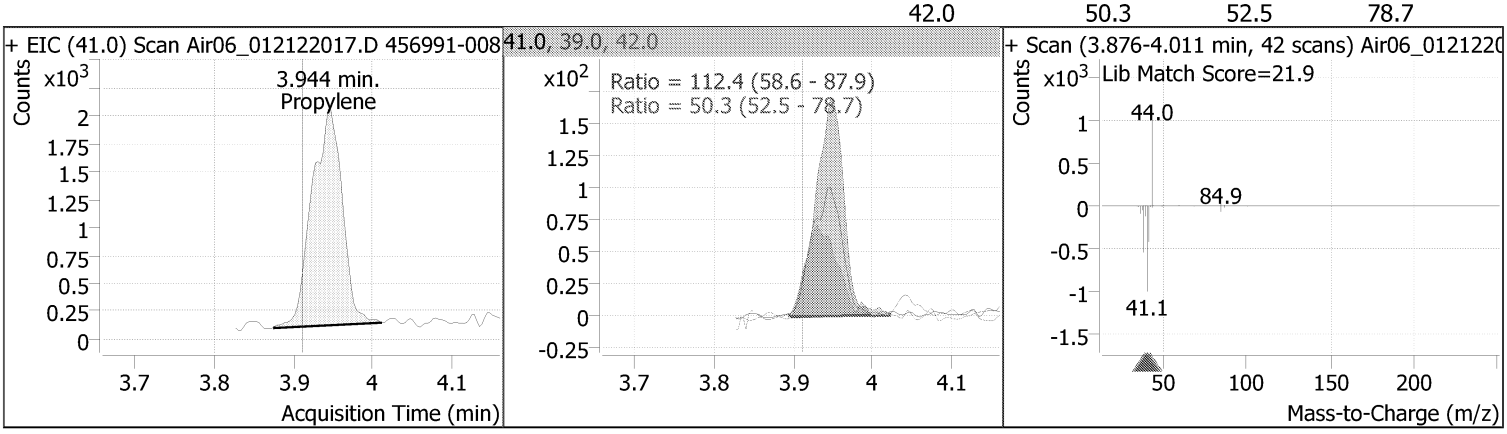

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 385574 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1581126 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 780522 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.609 | 95.0 | 1065696 | 10.3829 | nL/L | | -0.006 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 103.83% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.944 | 41.0 | 5185 | 0.1365 | nL/L | # | 66 |
| T Freon 12 | 3.995 | 85.0 | 27125 | 0.2699 | nL/L | # | 97 |
| T Chloromethane | 4.151 | 50.0 | 1402 | 0.0297 | nL/L | # | 98 |
| T Freon 114 | 4.258 | 135.0 | 498 | 0.0070 | nL/L | # | 82 |
| T Vinyl Chloride | 4.371 | 62.0 | 1128 | 0.0239 | nL/L | # | 91 |
| T 1,3-Butadiene | 4.465 | 54.0 | 729 | 0.0180 | nL/L | # | 1 |
| T Butane | 4.559 | 43.0 | 6669 | 0.0850 | nL/L | | 99 |
| T Bromomethane | 0.000 | | 0 | N.D. | | | |
| T Chloroethane | 4.918 | 64.0 | 9930 | 0.4265 | nL/L | | 93 |
| T Ethanol | 5.025 | 45.0 | 31293 | 1.3458 | nL/L | # | 96 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 5.348 | 56.0 | 1871 | 0.0912 | nL/L | # | 83 |
| T Acetone | 5.484 | 58.0 | 39284 | 1.6211 | nL/L | # | 62 |
| T Trichloromonofluoromethane | 5.633 | 101.0 | 12639 | 0.1067 | nL/L | | 97 |
| T Isopropanol (IPA) | 5.701 | 45.0 | 196685 | 2.2664 | nL/L | | 95 |
| T n-Pentane | 5.954 | 43.0 | 4296 | 0.0443 | nL/L | | 94 |
| T 1,1-Dichloroethene | 6.264 | 61.0 | 50 | 0.0006 | nL/L | | 36 |
| T Tert-butyl alcohol (TBA) | 6.290 | 59.0 | 10750 | 0.1070 | nL/L | # | 88 |
| T Methylene Chloride | 6.290 | 84.0 | 5756 | 0.1349 | nL/L | | 95 |
| T 3-Chloropropene | 6.578 | 76.0 | 34282 | 1.7432 | nL/L | # | 59 |
| T Freon 113 | 6.546 | 101.0 | 2843 | 0.0299 | nL/L | | 98 |
| T Carbon Disulfide | 6.578 | 76.0 | 34282 | 0.2780 | nL/L | # | 73 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.306 | 61.0 | 2920 | 0.0395 | nL/L | # | 34 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 189 | 0.0021 | nL/L | # | 81 |
| T MTBE | 7.313 | 73.0 | 1000 | 0.0083 | nL/L | # | 55 |
| T Vinyl Acetate | 7.410 | 43.0 | 22034 | 0.1448 | nL/L | # | 89 |
| T 2-Butanone | 7.669 | 43.0 | 19437 | 0.1658 | nL/L | | 97 |
| T cis-1,2-Dichloroethene | 8.245 | 61.0 | 1111 | 0.0149 | nL/L | # | 1 |
| T Ethyl Acetate | 8.245 | 61.0 | 1111 | 0.0604 | nL/L | # | 91 |
| T n-Hexane | 8.248 | 57.0 | 3580 | 0.0424 | nL/L | # | 81 |
| T Chloroform | 8.294 | 83.0 | 3226 | 0.0338 | nL/L | | 83 |
| T Tetrahydrofuran | 8.679 | 72.0 | 12986 | 0.6178 | nL/L | # | 88 |
| T 1,2-Dichloroethane | 8.957 | 62.0 | 2572 | 0.0369 | nL/L | # | 86 |
| T 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Benzene | 9.611 | 78.0 | 2408 | 0.0175 | nL/L | # | 92 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 3154 | 0.0321 | nL/L | # | 95 |
| T Cyclohexane | 9.909 | 84.0 | 2247 | 0.0391 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 10.330 | 63.0 | 2997 | 0.0463 | nL/L | # | 41 |
| T Methane, bromodichloro- | 10.504 | 83.0 | 344 | 0.0033 | nL/L | # | 68 |
| T 1,4-Dioxane | 10.333 | 88.0 | 2398 | 0.0709 | nL/L | # | 18 |
| T Trichloroethene | 10.556 | 132.0 | 1281 | 0.0194 | nL/L | # | 93 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 779 | 0.0026 | nL/L | # | 47 |
| T Methyl methacrylate | 10.734 | 69.0 | 154 | 0.0028 | nL/L | # | 37 |
| T n-Heptane | 10.834 | 71.0 | 666 | 0.0131 | nL/L | # | 91 |
| T cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 4-Methyl-2-Pentanone | 11.404 | 58.0 | 1515 | 0.0267 | nL/L | # | 84 |
| T trans-1,3-Dichloropropene | 11.996 | 110.0 | 45 | 0.0021 | nL/L | | 1 |
| T 1,1,2-Trichloroethane | 12.003 | 97.0 | 107 | 0.0017 | nL/L | # | 3 |
| T Toluene | 12.275 | 91.0 | 14269 | 0.0761 | nL/L | # | 98 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 51910048 | 4.1287 | nL/L | | 100 |
| T 2-Hexanone | 12.531 | 58.0 | 2746 | 0.0376 | nL/L | # | 95 |
| T Dibromochloromethane | 0.000 | | 0 | N.D. | | | |
| T 1,2-Dibromoethane | 12.925 | 108.9 | 229 | 0.0024 | nL/L | # | 89 |
| T Tetrachloroethene | 13.379 | 166.0 | 1130 | 0.0117 | nL/L | # | 91 |
| T 1,1,1,2-Tetrachloroethane | 13.845 | 131.0 | 135 | 0.0020 | nL/L | # | 1 |
| T Benzene, chloro- | 14.081 | 112.0 | 824 | 0.0062 | nL/L | # | 1 |
| T Ethylbenzene | 14.440 | 91.0 | 11969 | 0.0564 | nL/L | | 98 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 47335738 | 5.1545 | nL/L | | 100 |
| T m,p-Xylenes | 14.612 | 91.0 | 40901 | 0.2395 | nL/L | | 99 |
| T Bromoform | 14.686 | 173.0 | 162 | 0.0014 | nL/L | # | 1 |
| T Styrene | 15.000 | 104.0 | 8011 | 0.0592 | nL/L | # | 92 |
| T 1,1,2,2-Tetrachloroethane | 15.052 | 83.0 | 222 | 0.0017 | nL/L | # | 33 |
| T o-Xylene | 15.120 | 91.0 | 25756 | 0.1467 | nL/L | | 96 |
| T n-Nonane | 15.359 | 85.0 | 3554 | 0.0876 | nL/L | # | 79 |
| T Isopropylbenzene | 15.770 | 105.0 | 4588 | 0.0191 | nL/L | | 95 |
| T 2-Chlorotoluene | 16.395 | 126.0 | 244 | 0.0040 | nL/L | # | 1 |
| T n-Propylbenzene | 16.356 | 120.0 | 2499 | 0.0372 | nL/L | | 98 |
| T 4-Ethyltoluene | 16.531 | 105.1 | 15266 | 0.0641 | nL/L | | 98 |
| T 1,3,5-Trimethylbenzene | 16.625 | 105.0 | 29329 | 0.1422 | nL/L | | 98 |
| T 1,2,4-Trimethylbenzene | 17.130 | 105.0 | 99570 | 0.4862 | nL/L | | 98 |
| T Benzyl chloride | 17.288 | 91.0 | 802 | 0.0045 | nL/L | # | 1 |
| T 1,3-Dichlorobenzene | 17.405 | 146.0 | 17978 | 0.1280 | nL/L | # | 87 |
| T 1,4-Dichlorobenzene | 17.405 | 146.0 | 17978 | 0.1266 | nL/L | # | 86 |
| T 1,2-Dichlorobenzene | 17.852 | 146.0 | 2385 | 0.0174 | nL/L | # | 74 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1103 | 0.0098 | nL/L | # | 52 |
| T Naphthalene | 20.528 | 128.0 | 130278 | 0.5575 | nL/L | # | 97 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.121 | 225.0 | 273 | 0.0022 | nL/L | # | 53 |

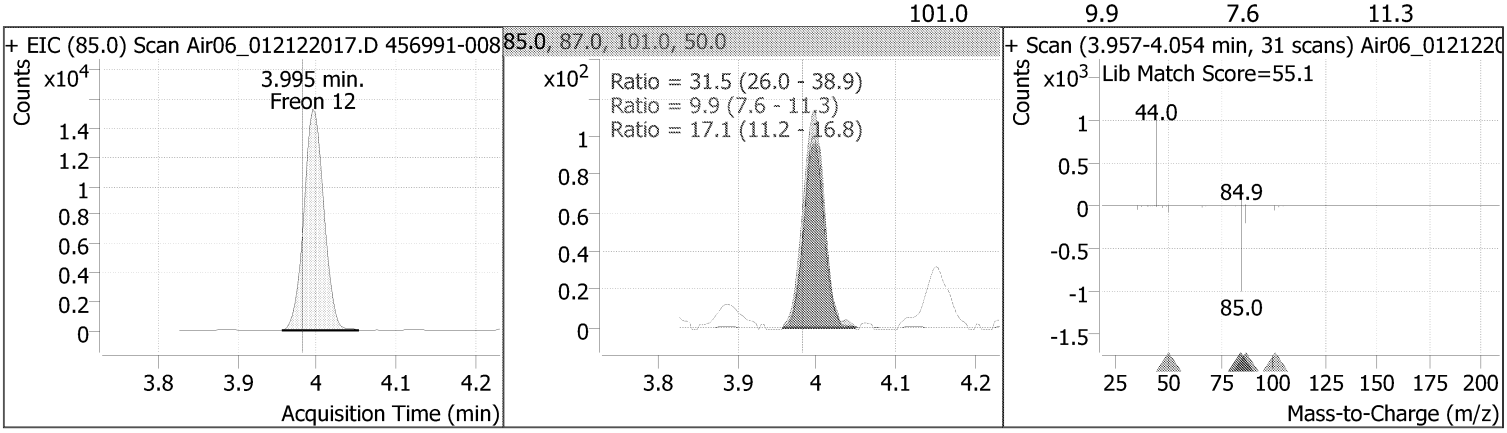
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

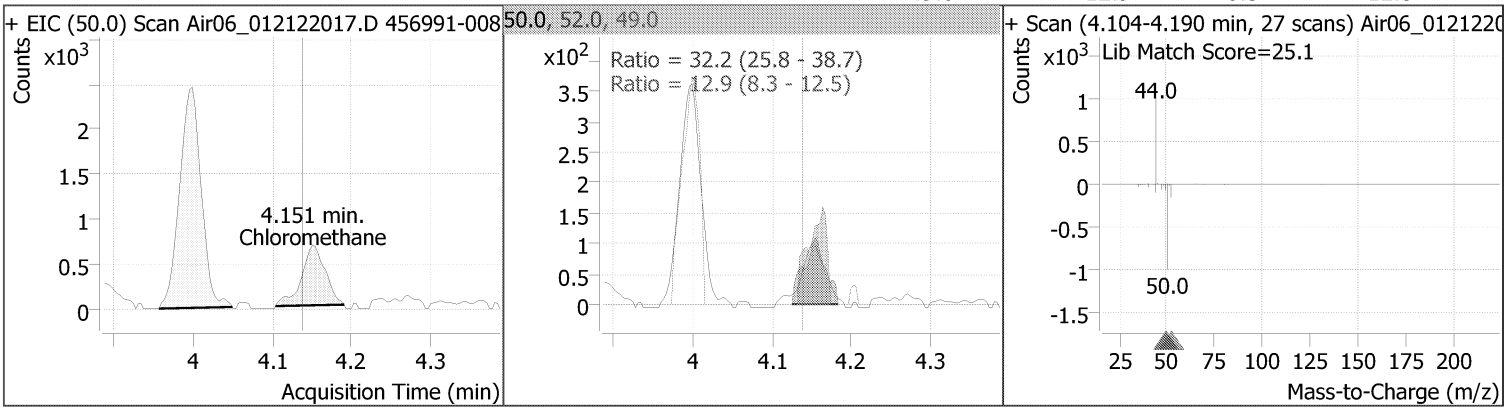
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.1365 | 3.94 | 0.04 | 5185 | 39.0 | 112.4 | 58.6 | 87.9 |
| | | | | | 42.0 | 50.3 | 52.5 | 78.7 |



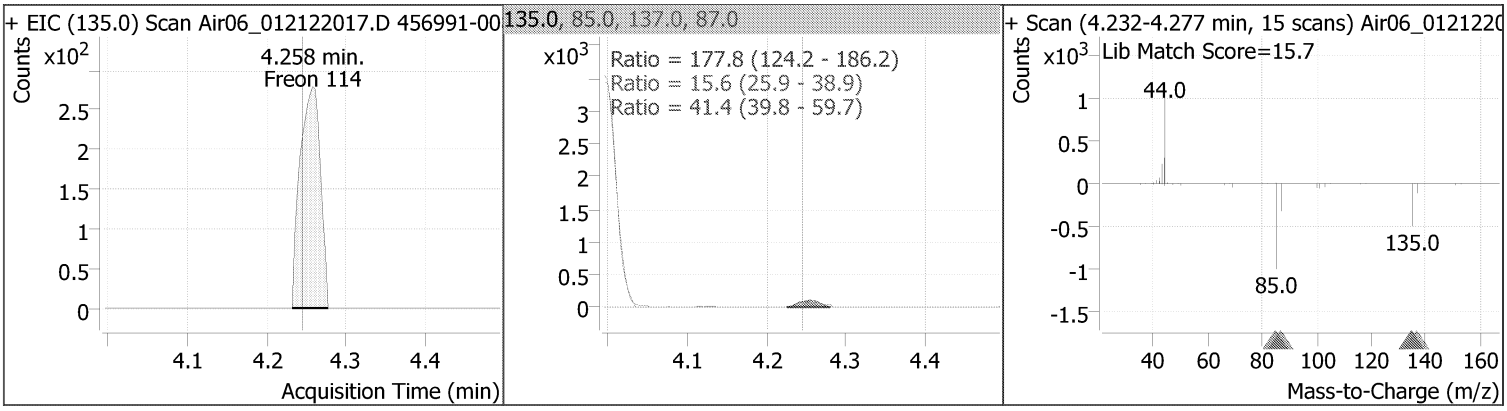

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.2699 | 4.00 | 0.02 | 27125 | 87.0 | 31.5 | 26.0 | 38.9 |
| | | | | | 50.0 | 17.1 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.9 | 7.6 | 11.3 |



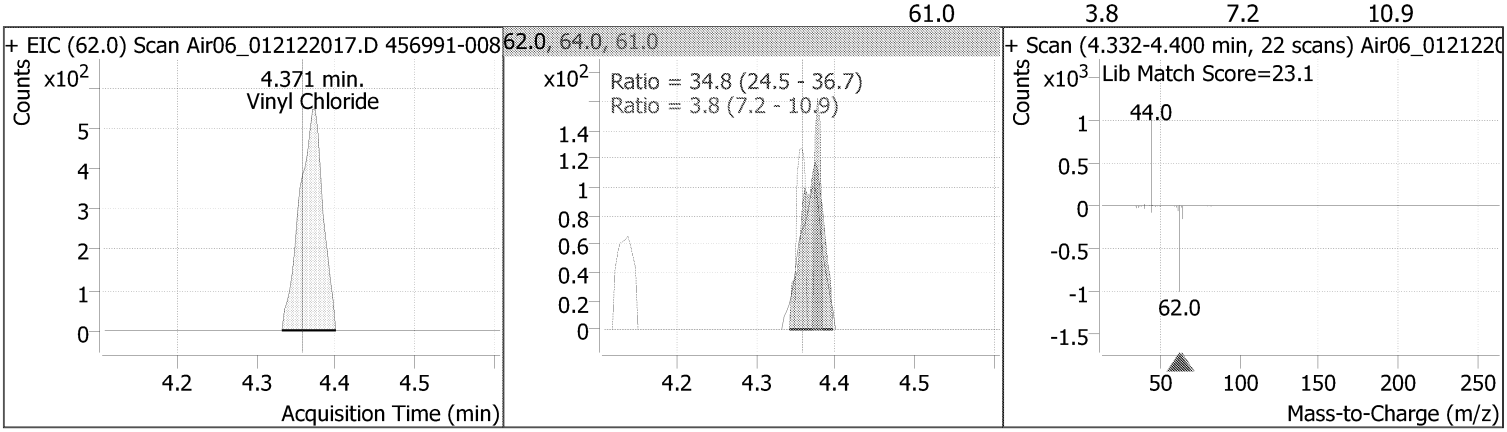

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0297 | 4.15 | 0.02 | 1402 | 52.0 | 32.2 | 25.8 | 38.7 |
| | | | | | 49.0 | 12.9 | 8.3 | 12.5 |



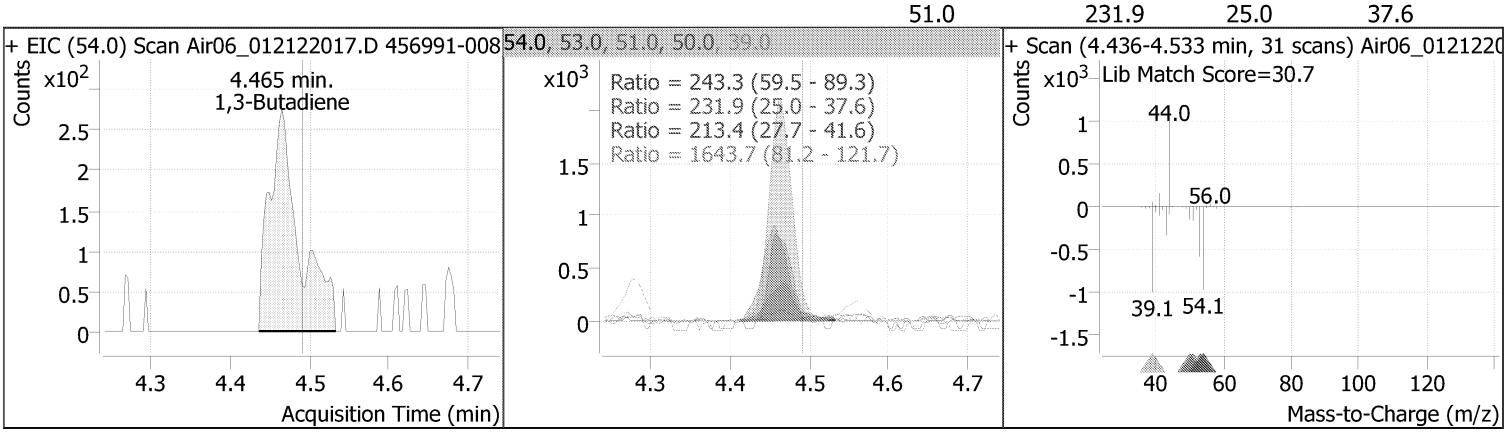
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.0070 | 4.26 | 0.02 | 498 | 85.0 | 177.8 | 124.2 | 186.2 |
| | | | | | 87.0 | 41.4 | 39.8 | 59.7 |
| | | | | | 137.0 | 15.6 | 25.9 | 38.9 |



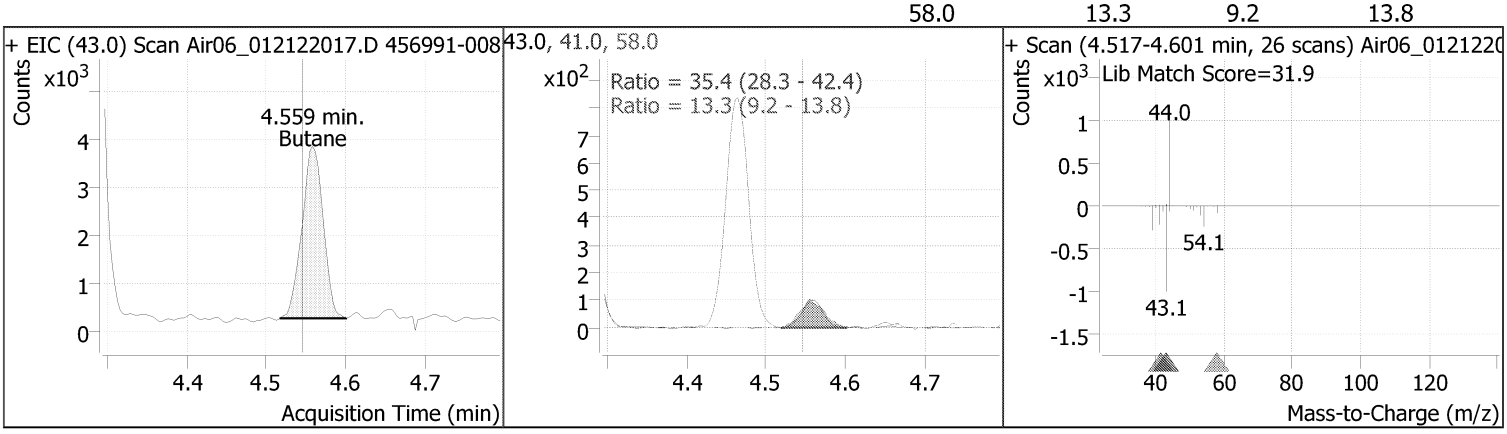

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.0239 | 4.37 | 0.02 | 1128 | 64.0 | 34.8 | 24.5 | 36.7 |
| | | | | | 61.0 | 3.8 | 7.2 | 10.9 |



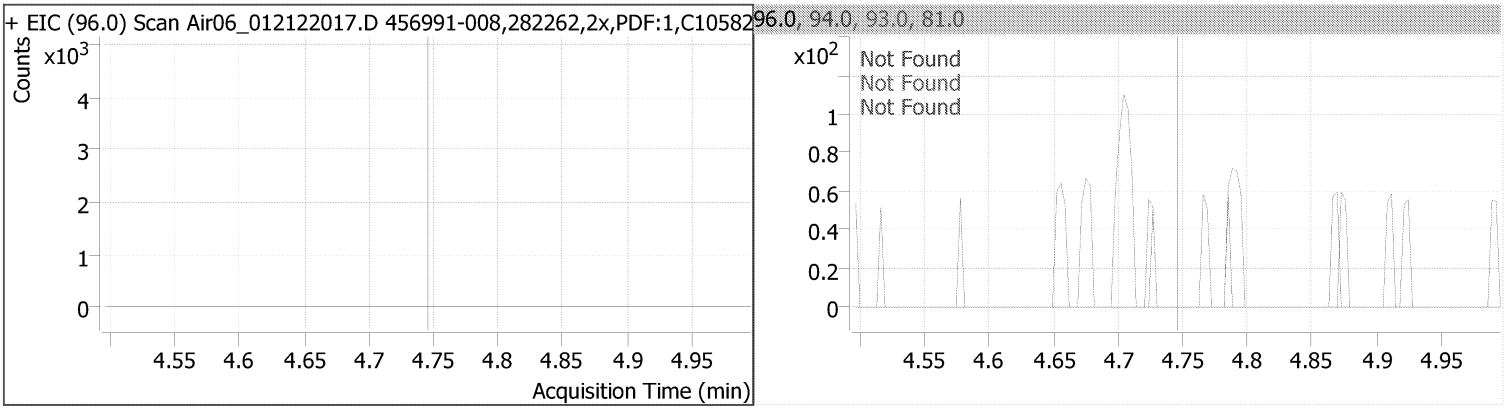

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0180 | 4.46 | -0.02 | 729 | 39.0 | 1643.7 | 81.2 | 121.7 |
| | | | | | 53.0 | 243.3 | 59.5 | 89.3 |
| | | | | | 50.0 | 213.4 | 27.7 | 41.6 |
| | | | | | 51.0 | 231.9 | 25.0 | 37.6 |



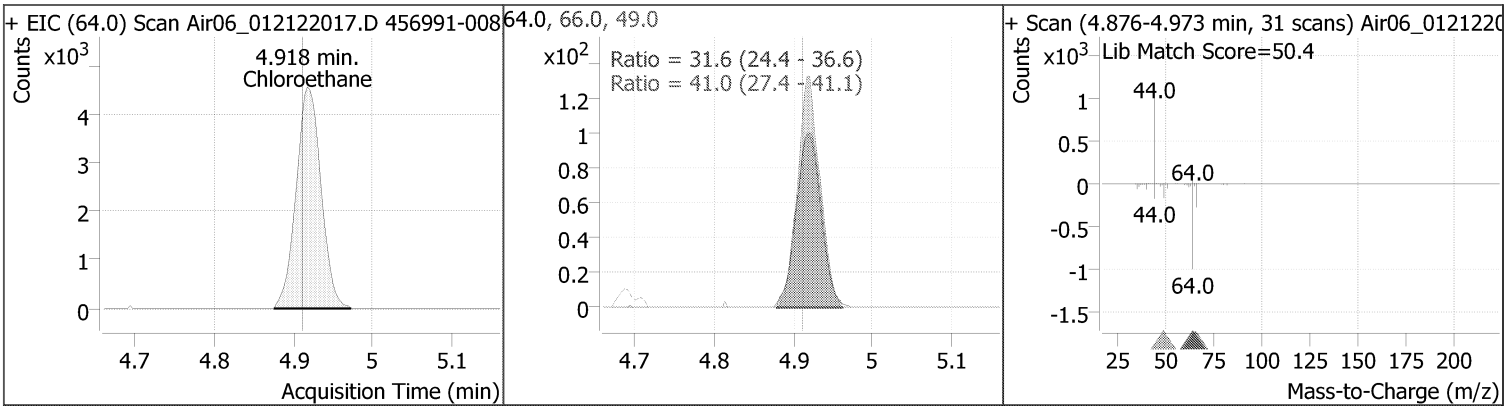
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0850 | 4.56 | 0.02 | 6669 | 41.0 | 35.4 | 28.3 | 42.4 |
| | | | | | 58.0 | 13.3 | 9.2 | 13.8 |



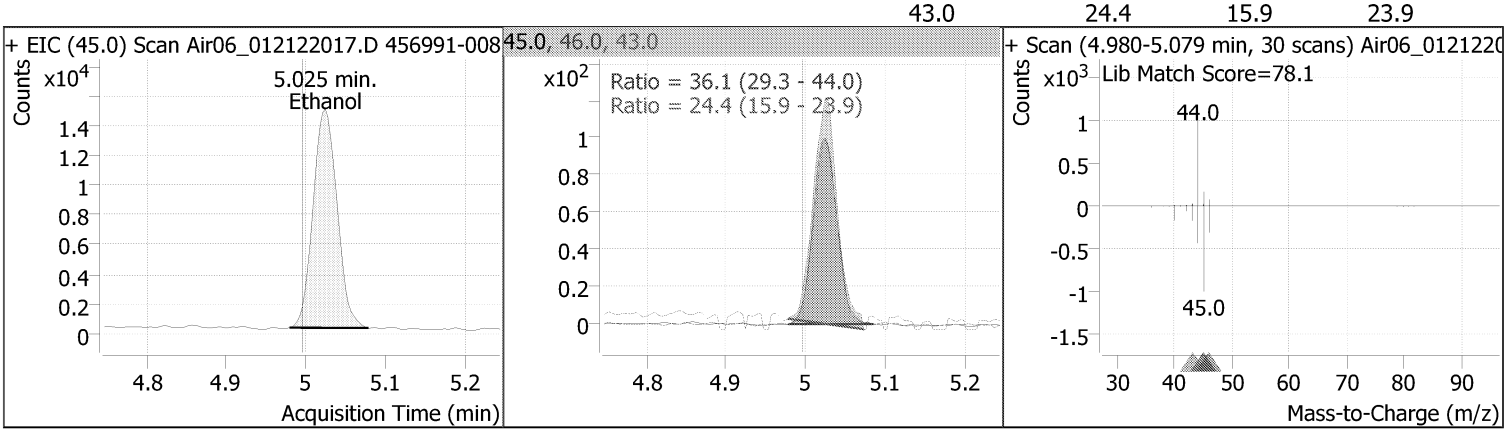

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | N.D. | 4.74 | 94.0 | 107.1 | 93.0 | 22.6 | 81.0 | 17.5 |



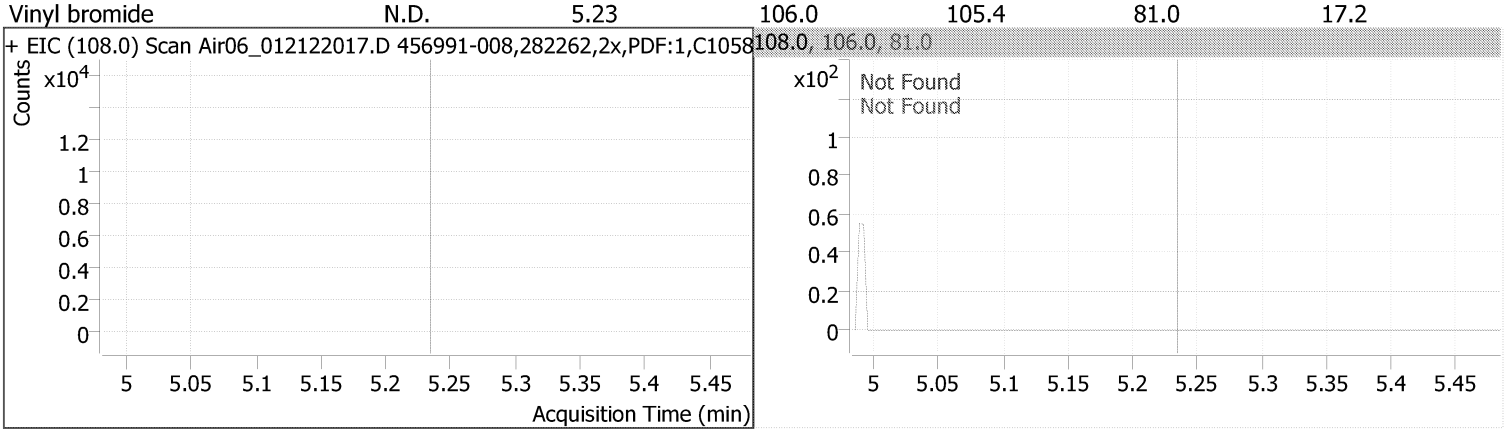

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.4265 | 4.92 | 0.01 | 9930 | 49.0 | 41.0 | 27.4 | 41.1 |
| | | | | | 66.0 | 31.6 | 24.4 | 36.6 |



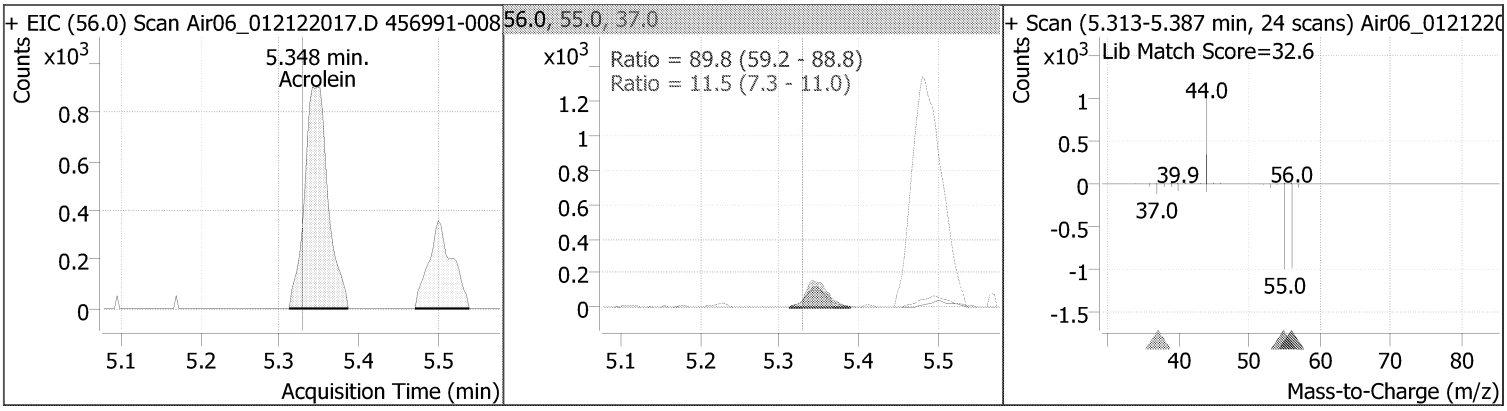
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 1.3458 | 5.02 | 0.03 | 31293 | 46.0 | 36.1 | 29.3 | 44.0 |
| | | | | | 43.0 | 24.4 | 15.9 | 23.9 |



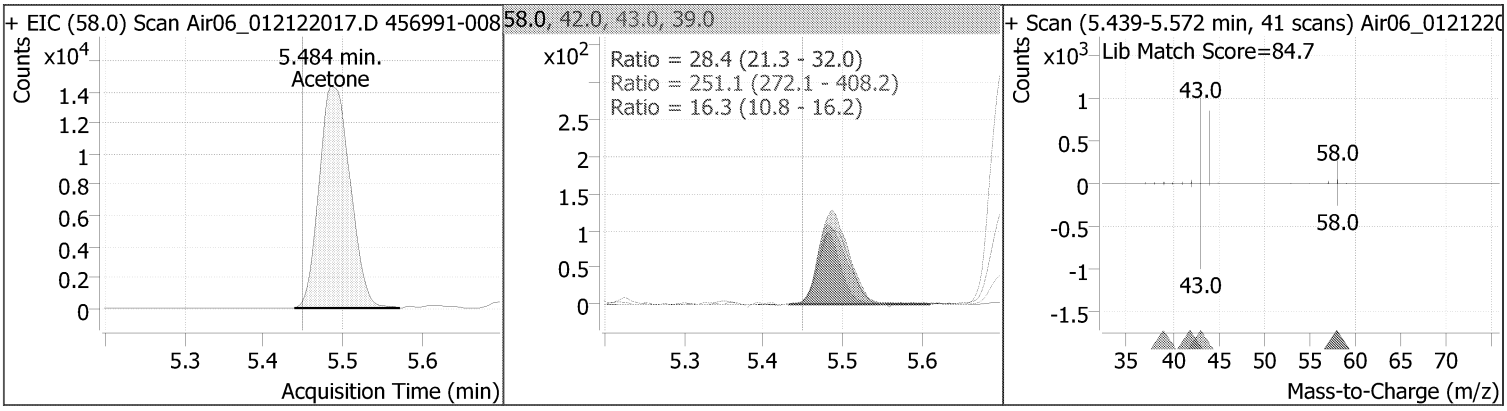

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.23 | 106.0 | 105.4 | 81.0 | 17.2 |



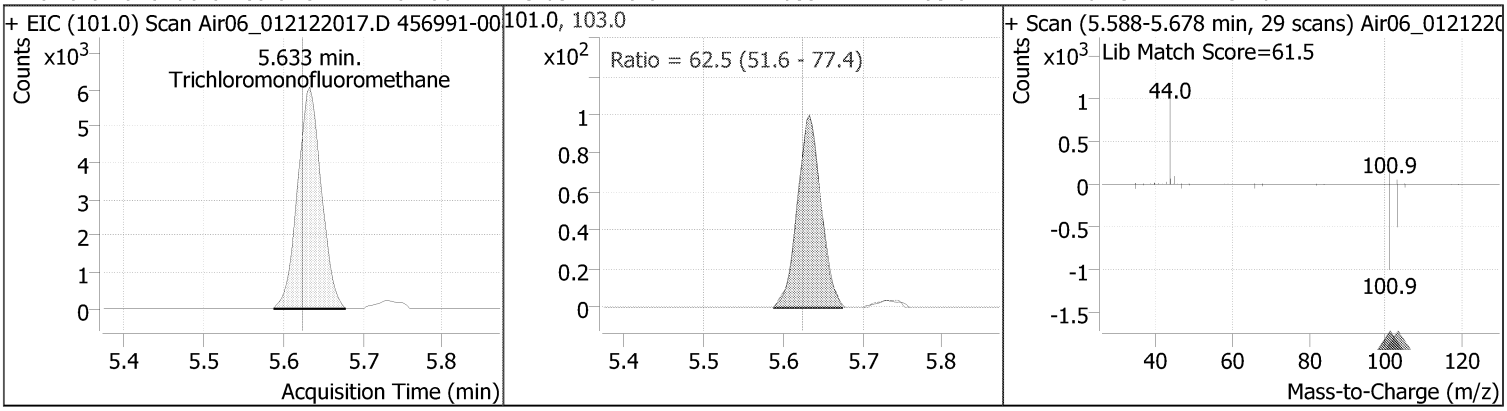

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0912 | 5.35 | 0.02 | 1871 | 55.0 | 89.8 | 59.2 | 88.8 |
| | | | | | 37.0 | 11.5 | 7.3 | 11.0 |



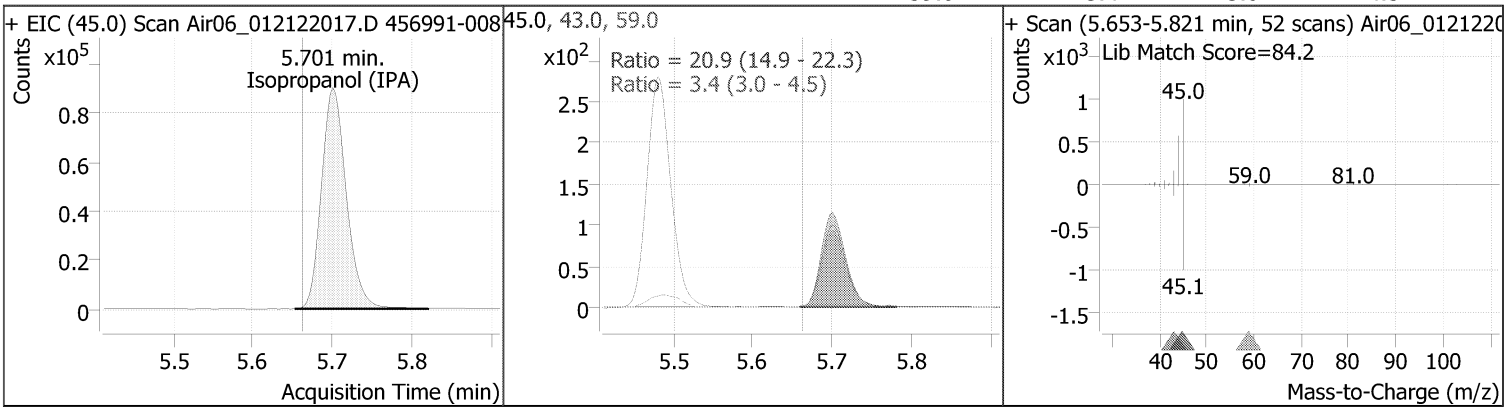
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 1.6211 | 5.48 | 0.04 | 39284 | 43.0 | 251.1 | 272.1 | 408.2 |
| | | | | | 42.0 | 28.4 | 21.3 | 32.0 |
| | | | | | 39.0 | 16.3 | 10.8 | 16.2 |



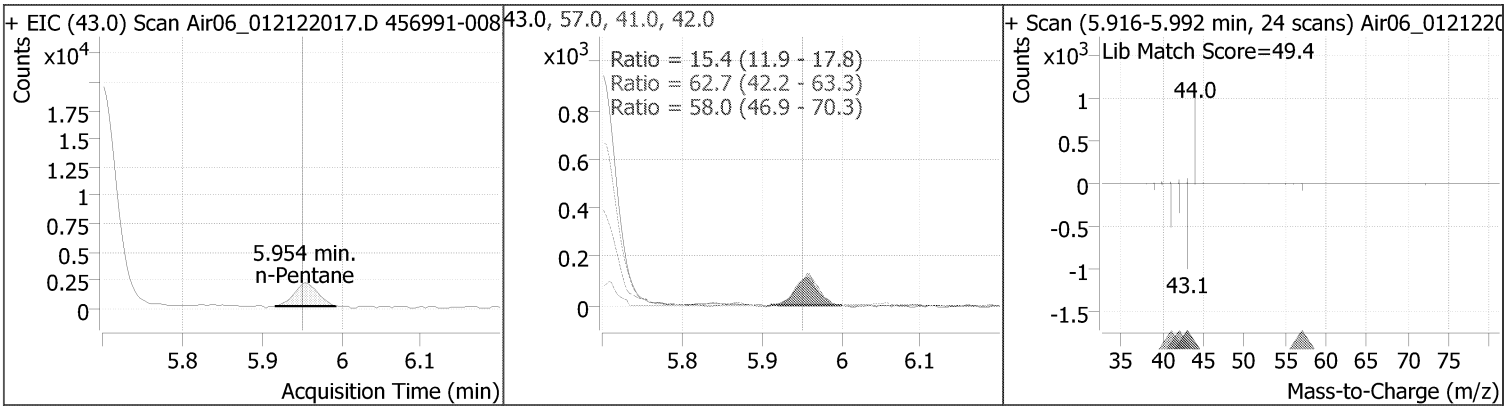

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 0.1067 | 5.63 | 0.01 | 12639 | 103.0 | 62.5 | 51.6 | 77.4 |



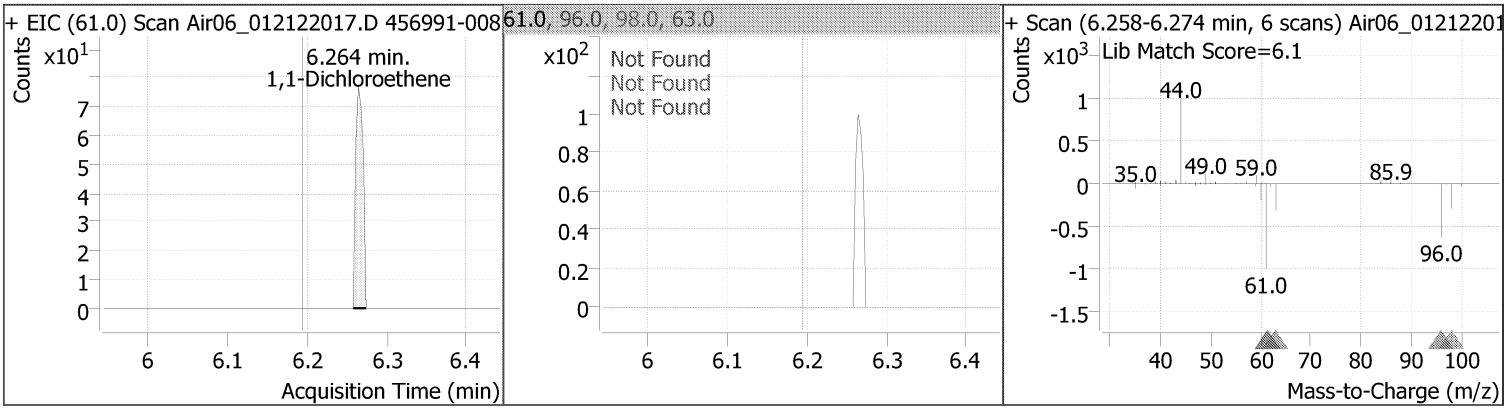

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 2.2664 | 5.70 | 0.04 | 196685 | 43.0 | 20.9 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.4 | 3.0 | 4.5 |



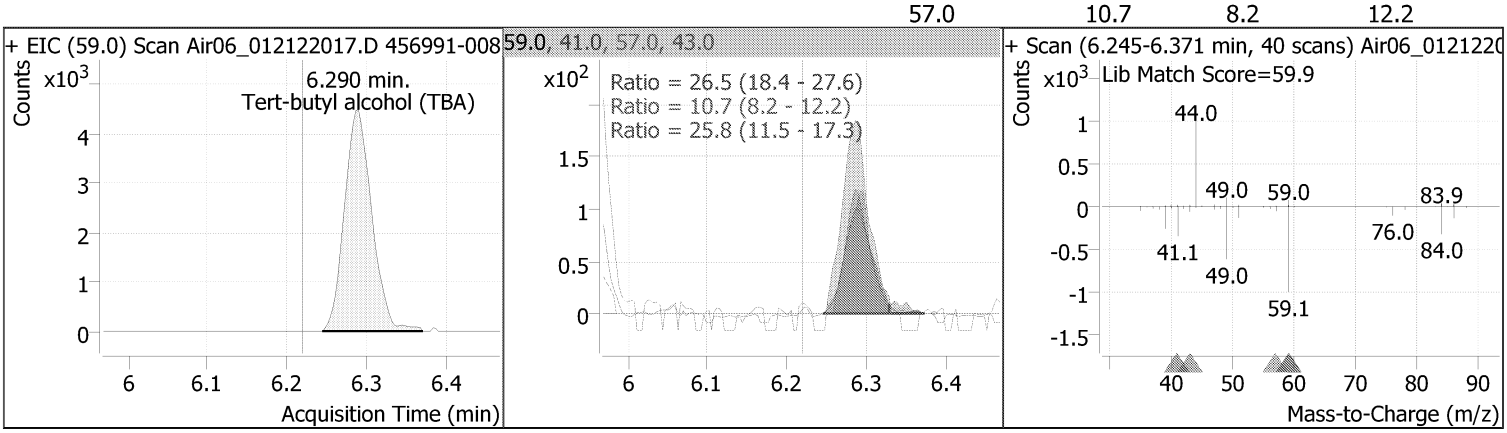
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.0443 | 5.95 | 0.01 | 4296 | 42.0 | 58.0 | 46.9 | 70.3 |
| | | | | | 41.0 | 62.7 | 42.2 | 63.3 |
| | | | | | 57.0 | 15.4 | 11.9 | 17.8 |



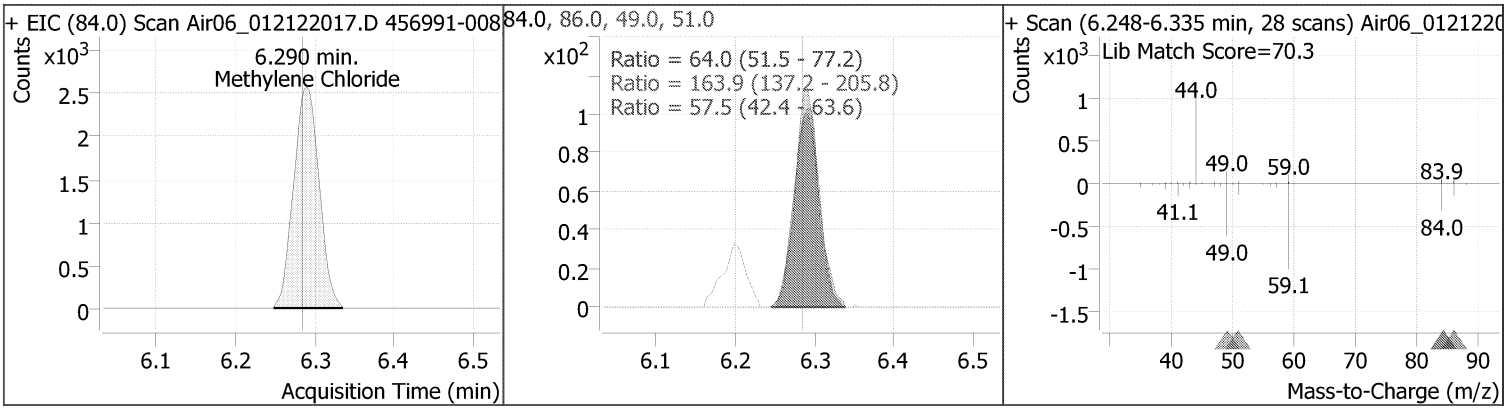

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0006 | 6.26 | 0.07 | 50 | 96.0 | | 40.6 | 60.8 |
| | | | | | 98.0 | | 25.8 | 38.7 |
| | | | | | 63.0 | | 24.7 | 37.1 |



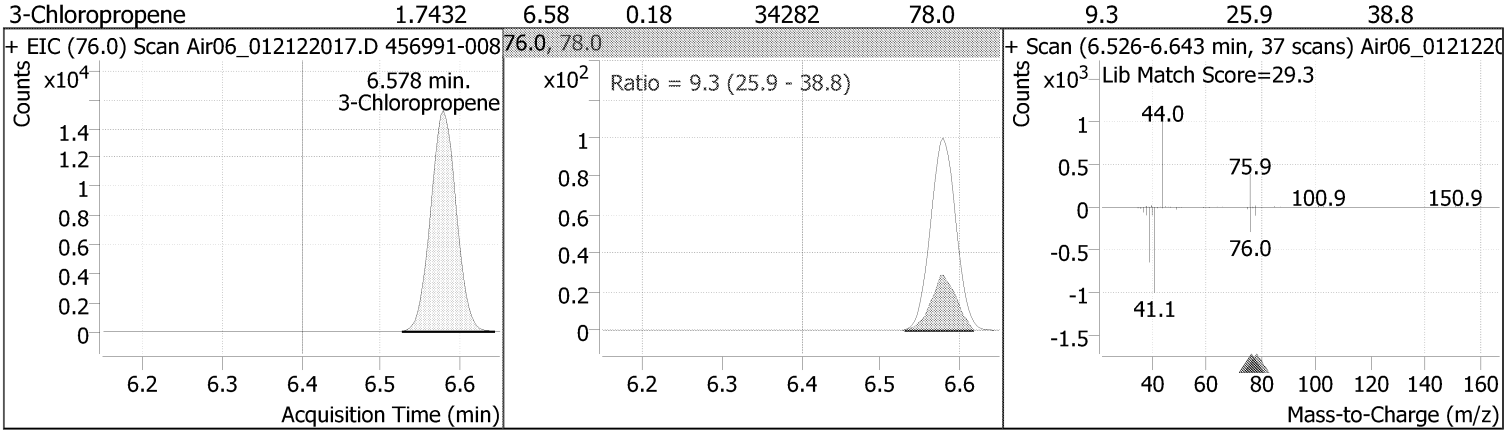

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.1070 | 6.29 | 0.07 | 10750 | 41.0 | 26.5 | 18.4 | 27.6 |
| | | | | | 43.0 | 25.8 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.7 | 8.2 | 12.2 |



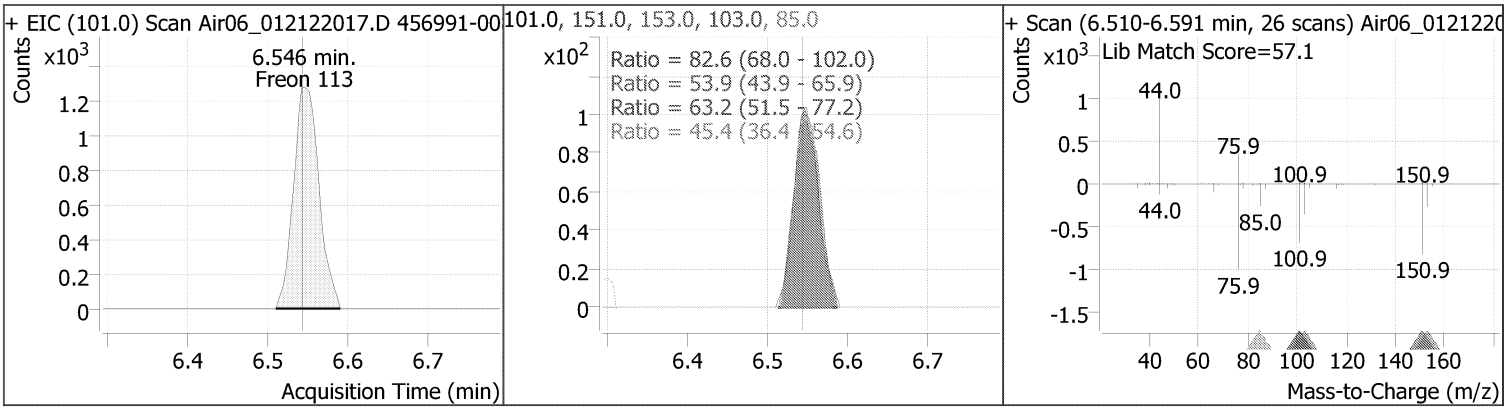
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1349 | 6.29 | 0.01 | 5756 | 49.0 | 163.9 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.0 | 51.5 | 77.2 |
| | | | | | 51.0 | 57.5 | 42.4 | 63.6 |



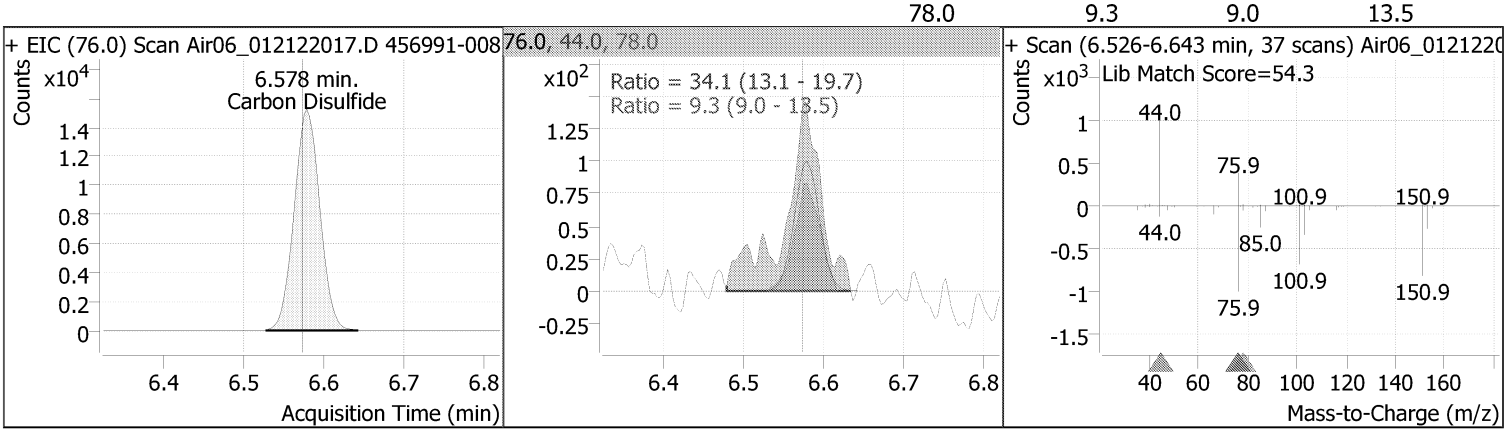

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 1.7432 | 6.58 | 0.18 | 34282 | 78.0 | 9.3 | 25.9 | 38.8 |



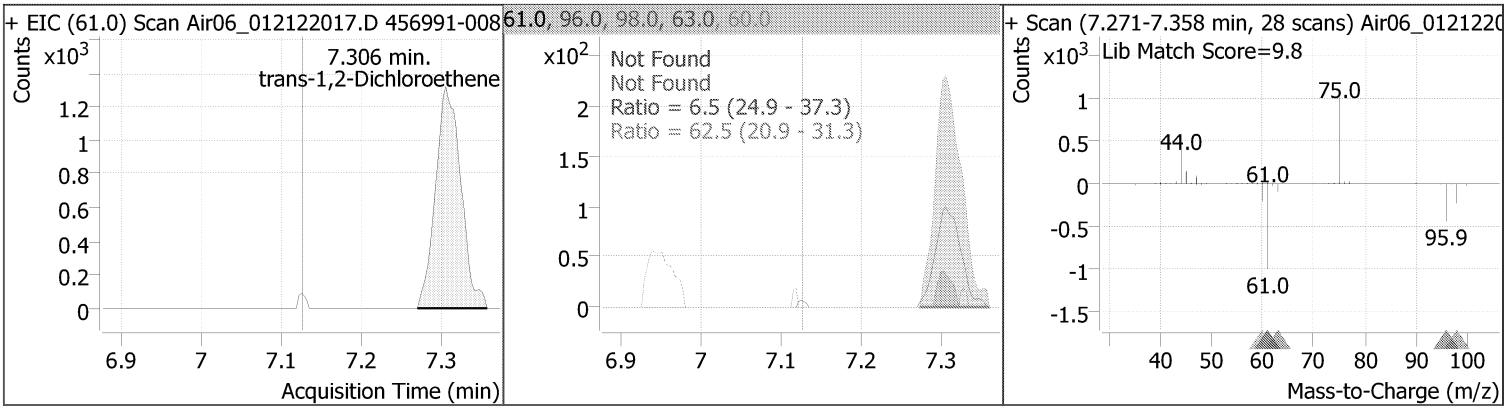

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.0299 | 6.55 | 0.01 | 2843 | 151.0 | 82.6 | 68.0 | 102.0 |
| | | | | | 103.0 | 63.2 | 51.5 | 77.2 |
| | | | | | 153.0 | 53.9 | 43.9 | 65.9 |
| | | | | | 85.0 | 45.4 | 36.4 | 54.6 |



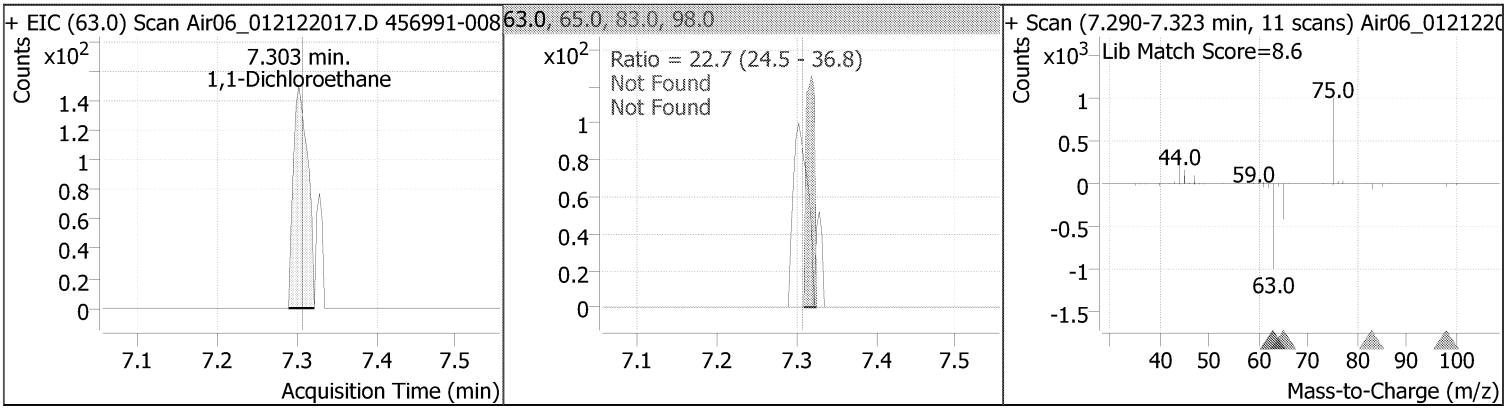
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.2780 | 6.58 | 0.01 | 34282 | 44.0 | 34.1 | 13.1 | 19.7 |
| | | | | | 78.0 | 9.3 | 9.0 | 13.5 |



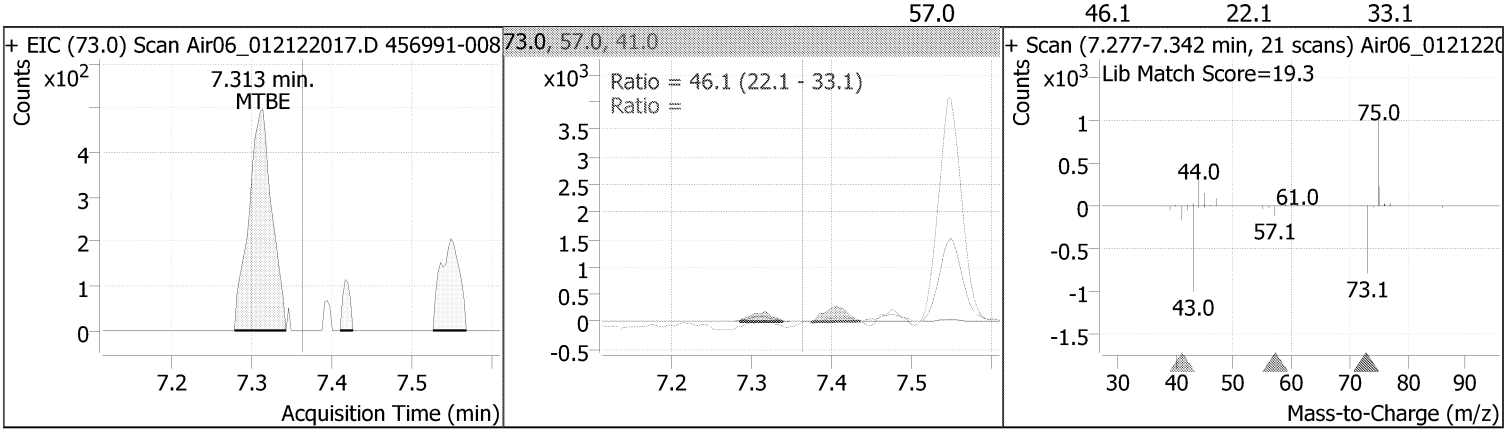

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.0395 | 7.31 | 0.18 | 2920 | 96.0 | | 45.6 | 68.4 |
| | | | | | 98.0 | | 29.2 | 43.8 |
| | | | | | 63.0 | 6.5 | 24.9 | 37.3 |
| | | | | | 60.0 | 62.5 | 20.9 | 31.3 |



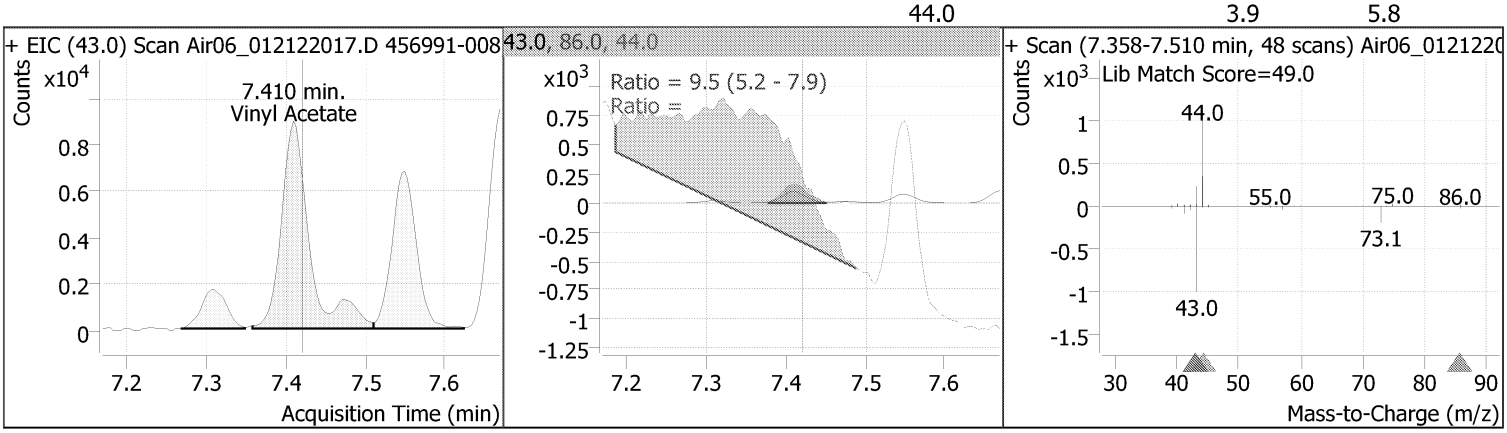

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.0021 | 7.30 | 0.00 | 189 | 65.0 | 22.7 | 24.5 | 36.8 |
| | | | | | 83.0 | | 9.7 | 14.6 |
| | | | | | 98.0 | | 4.0 | 5.9 |



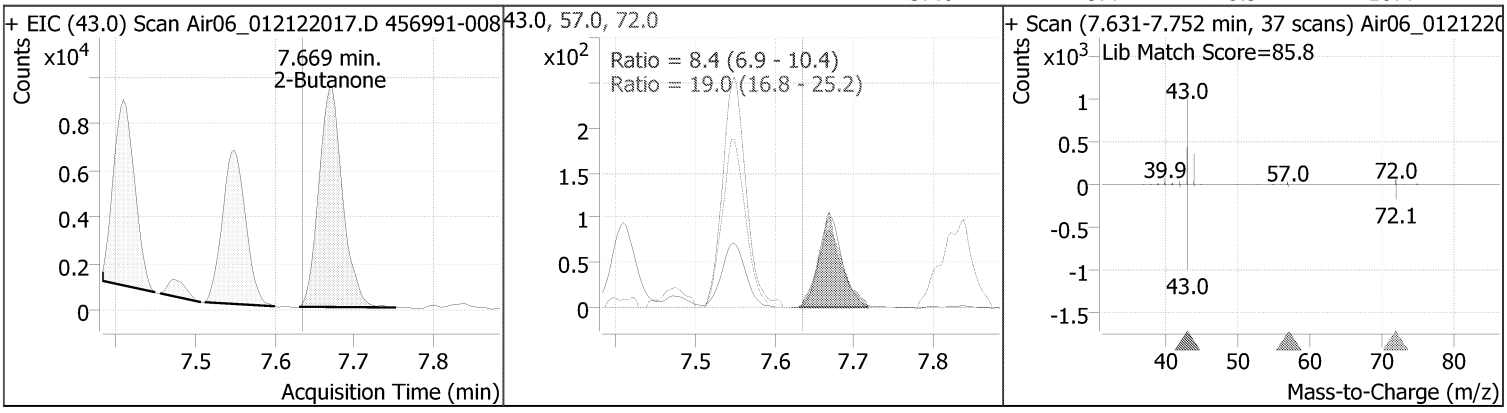
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.0083 | 7.31 | -0.05 | 1000 | 41.0 | | 23.3 | 34.9 |
| | | | | | 57.0 | 46.1 | 22.1 | 33.1 |



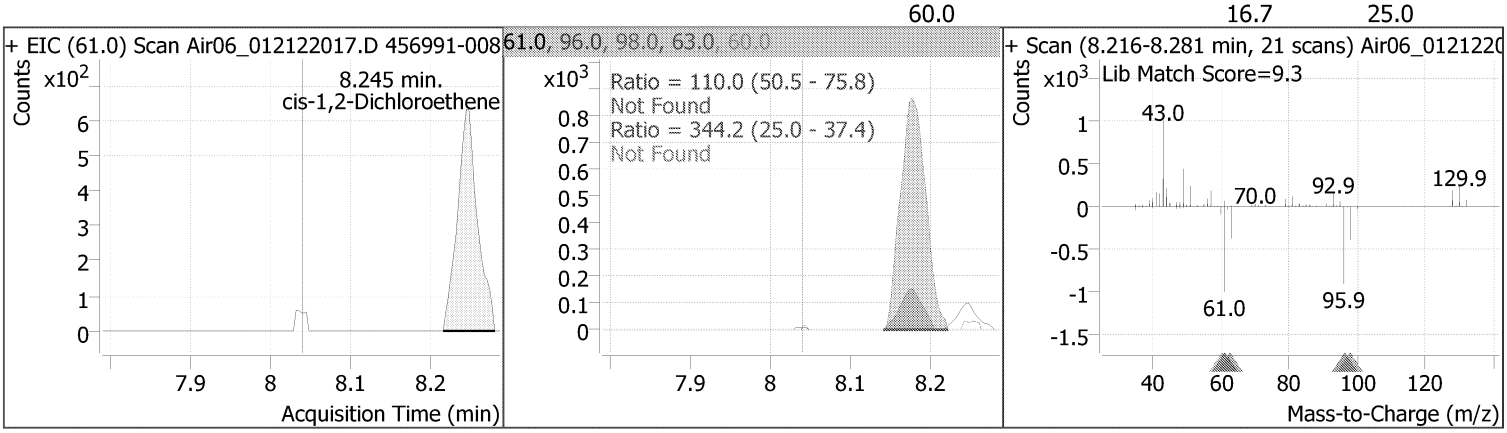

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.1448 | 7.41 | -0.01 | 22034 | 86.0 | 9.5 | 5.2 | 7.9 |
| | | | | | 44.0 | | 3.9 | 5.8 |



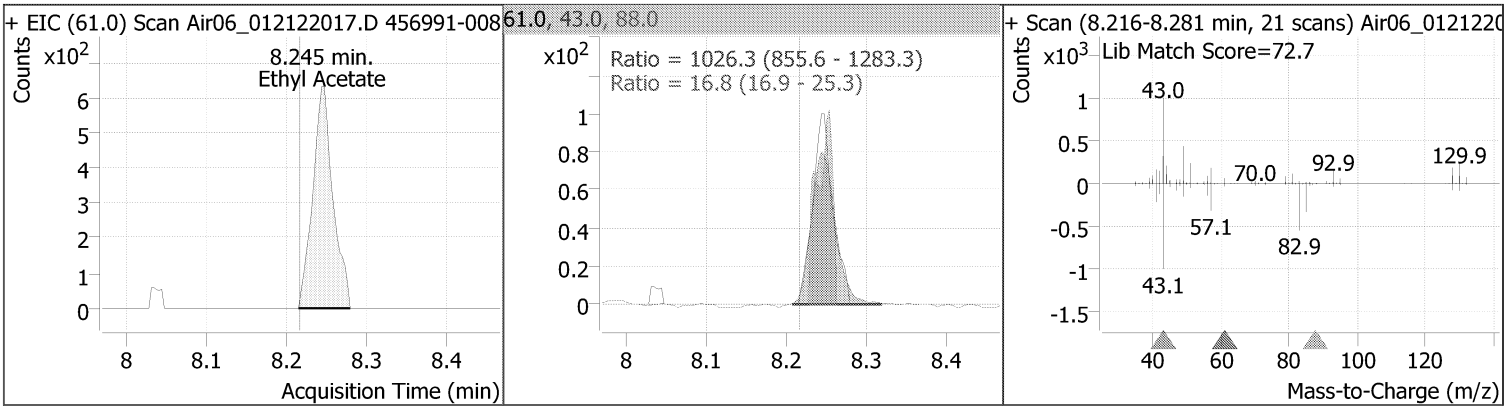

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.1658 | 7.67 | 0.04 | 19437 | 72.0 | 19.0 | 16.8 | 25.2 |
| | | | | | 57.0 | 8.4 | 6.9 | 10.4 |



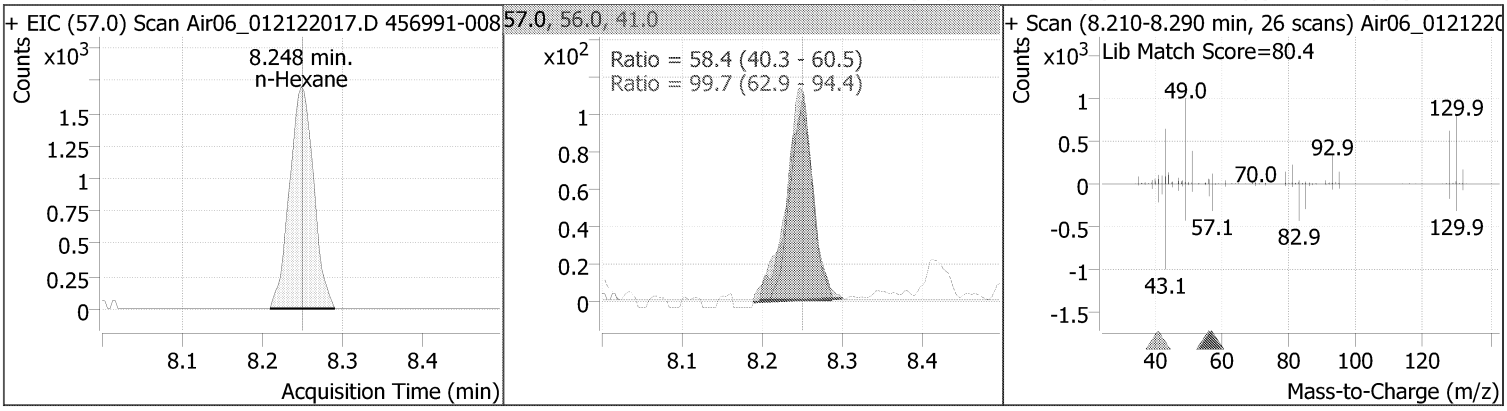
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.0149 | 8.25 | 0.21 | 1111 | 96.0 | 110.0 | 50.5 | 75.8 |
| | | | | | 98.0 | | 32.0 | 48.0 |
| | | | | | 63.0 | 344.2 | 25.0 | 37.4 |
| | | | | | 60.0 | | 16.7 | 25.0 |



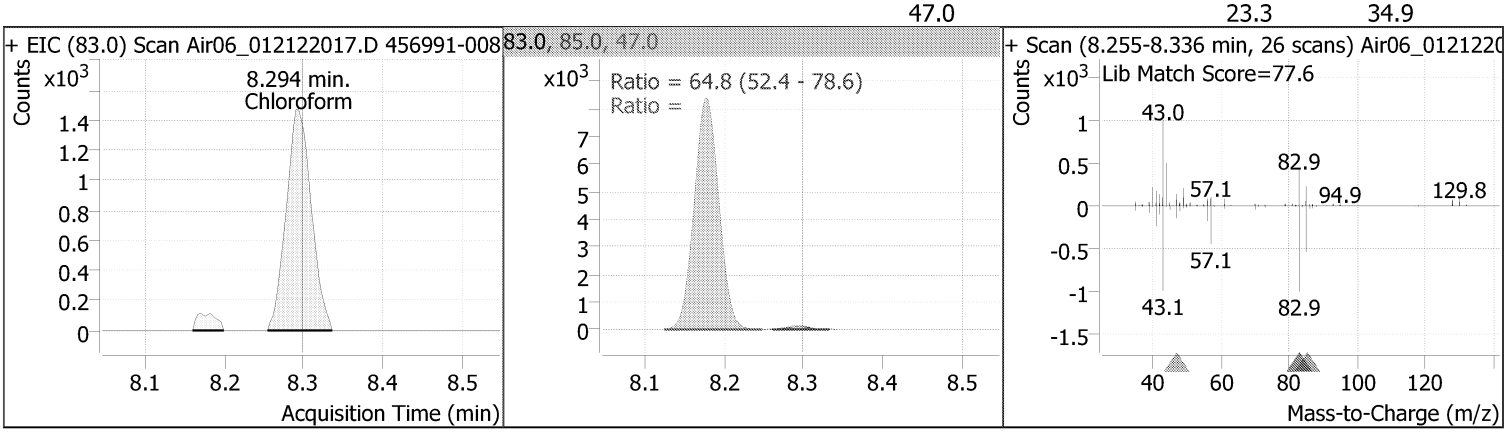

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.0604 | 8.25 | 0.03 | 1111 | 43.0 | 1026.3 | 855.6 | 1283.3 |
| | | | | | 88.0 | 16.8 | 16.9 | 25.3 |



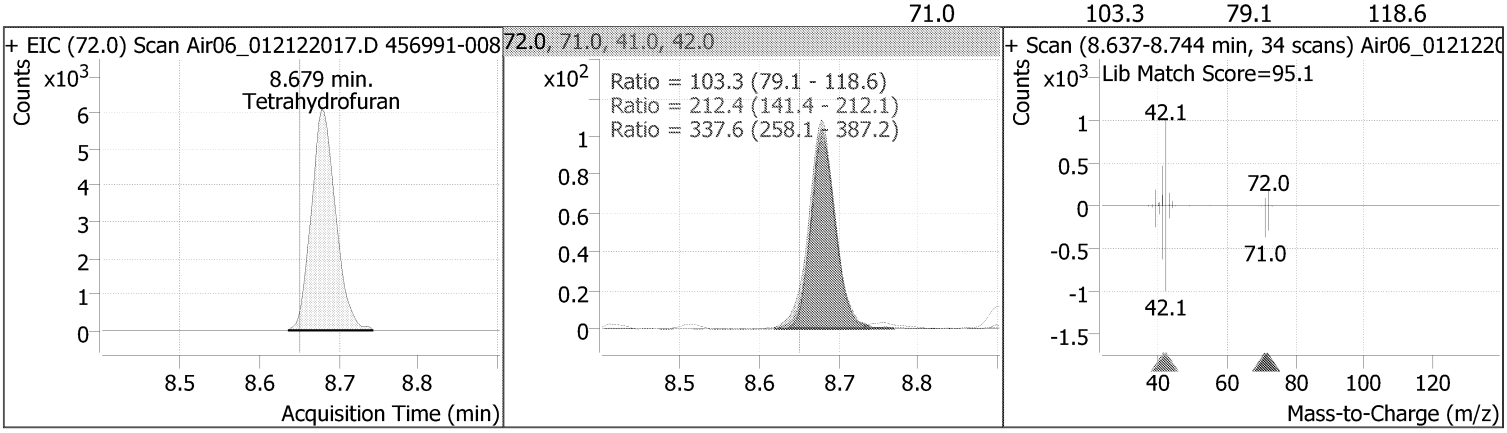

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0424 | 8.25 | 0.00 | 3580 | 41.0 | 99.7 | 62.9 | 94.4 |
| | | | | | 56.0 | 58.4 | 40.3 | 60.5 |



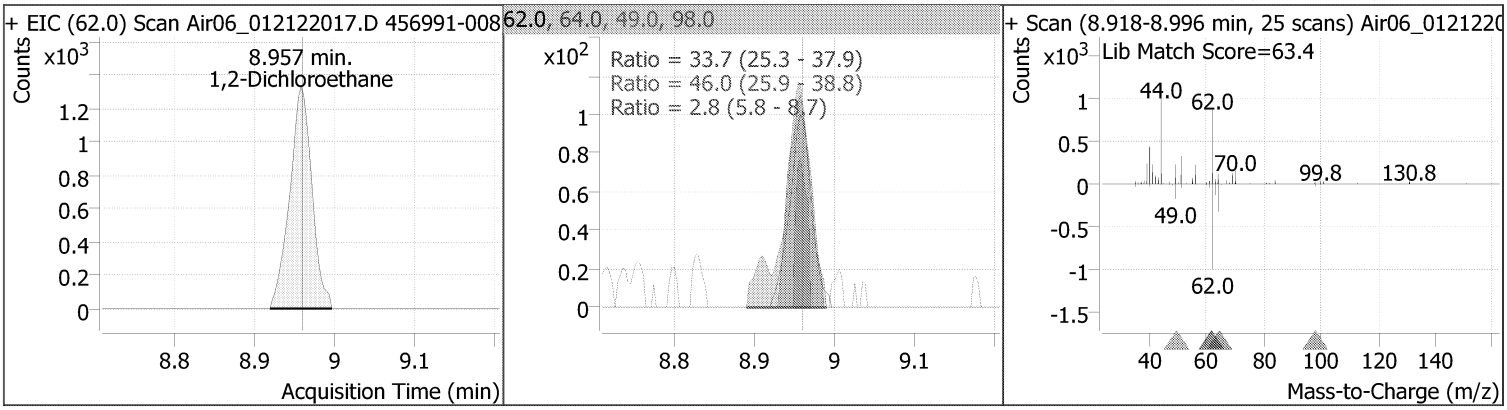
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0338 | 8.29 | 0.00 | 3226 | 85.0 | 64.8 | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



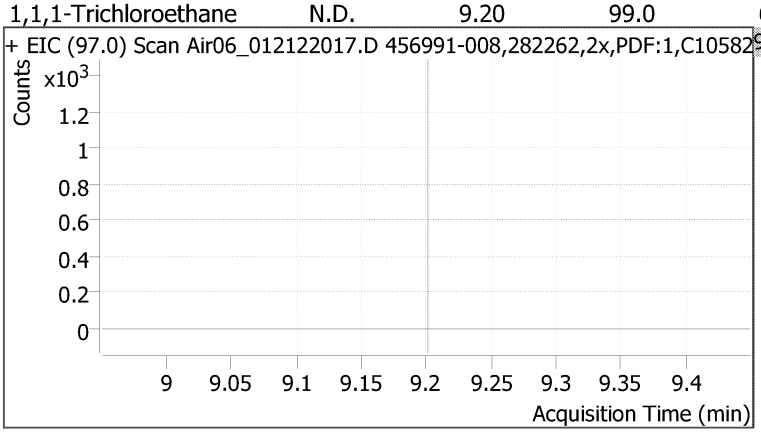

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.6178 | 8.68 | 0.03 | 12986 | 42.0 | 337.6 | 258.1 | 387.2 |
| | | | | | 41.0 | 212.4 | 141.4 | 212.1 |
| | | | | | 71.0 | 103.3 | 79.1 | 118.6 |

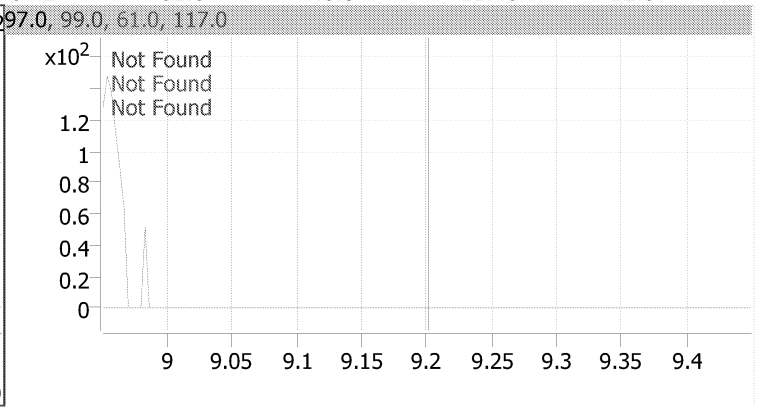



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0369 | 8.96 | 0.00 | 2572 | 49.0 | 46.0 | 25.9 | 38.8 |
| | | | | | 64.0 | 33.7 | 25.3 | 37.9 |
| | | | | | 98.0 | 2.8 | 5.8 | 8.7 |

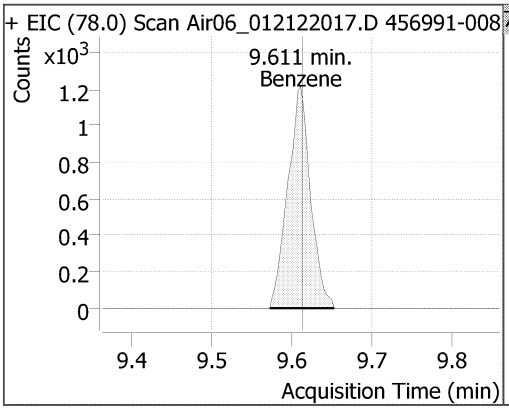


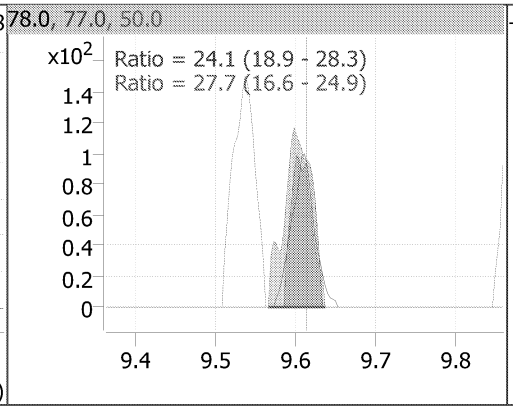
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | N.D. | 9.20 | 99.0 | 64.2 | 61.0 | 48.3 | 117.0 | 12.8 |

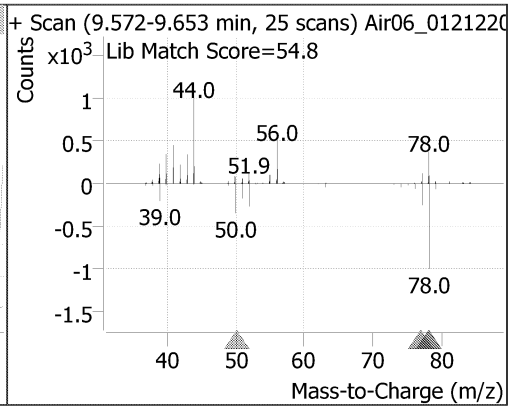


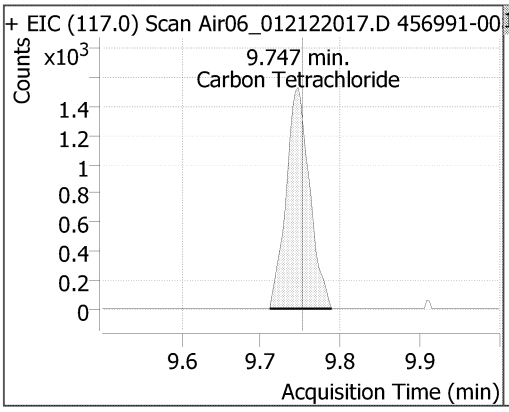

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0175 | 9.61 | 0.00 | 2408 | 77.0 | 24.1 | 18.9 | 28.3 |
| | | | | | 50.0 | 27.7 | 16.6 | 24.9 |

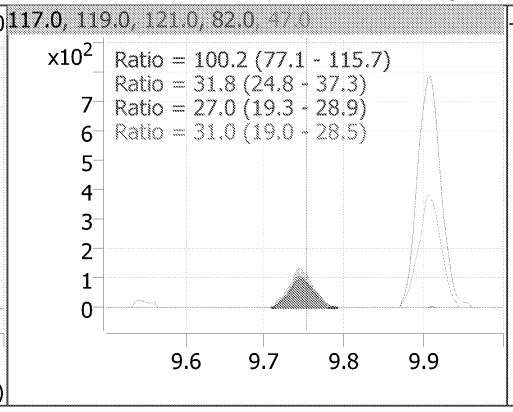


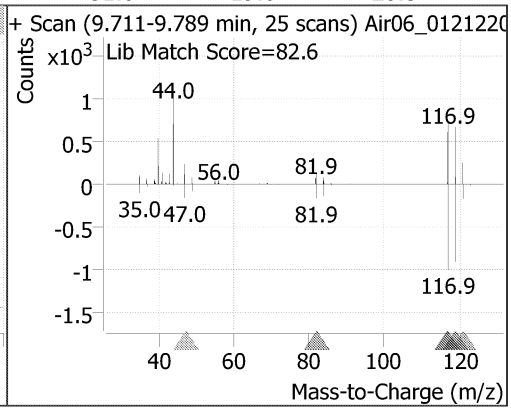



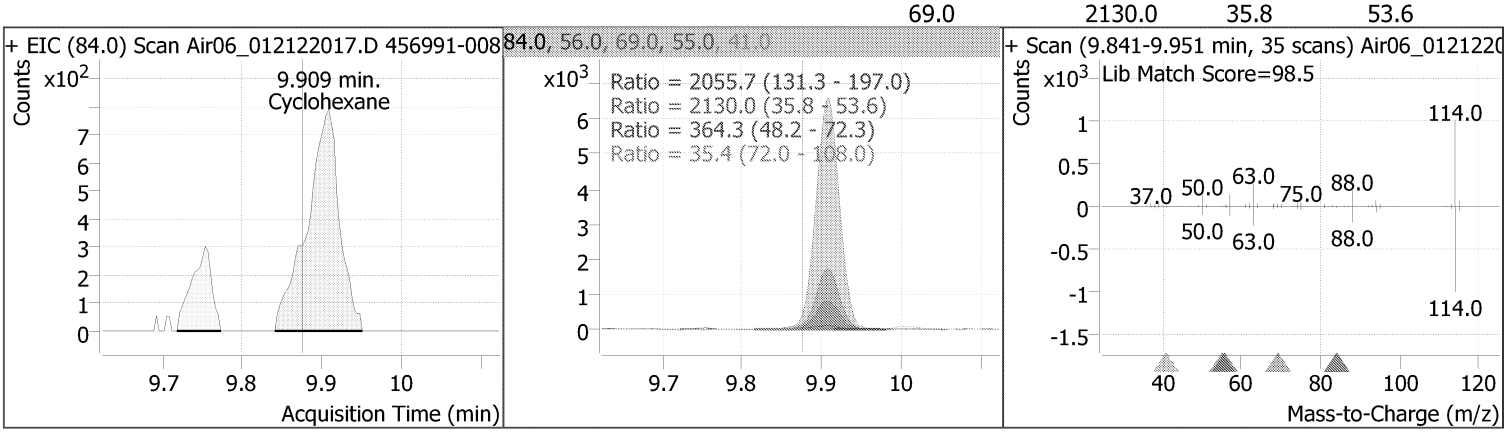

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.0321 | 9.75 | 0.00 | 3154 | 119.0 | 100.2 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.8 | 24.8 | 37.3 |
| | | | | | 82.0 | 27.0 | 19.3 | 28.9 |
| | | | | | 47.0 | 31.0 | 19.0 | 28.5 |



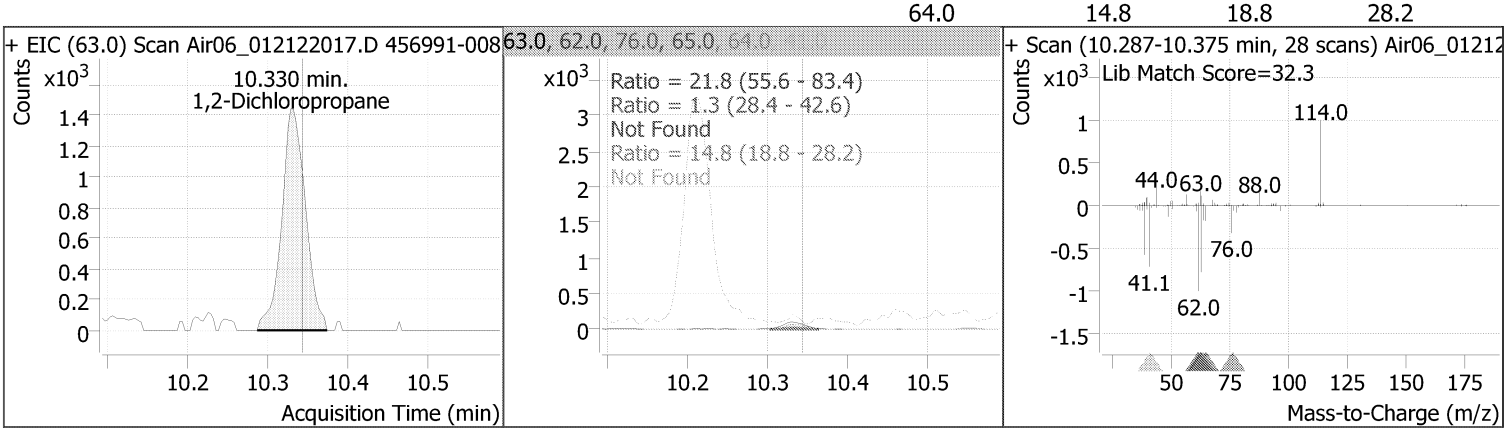



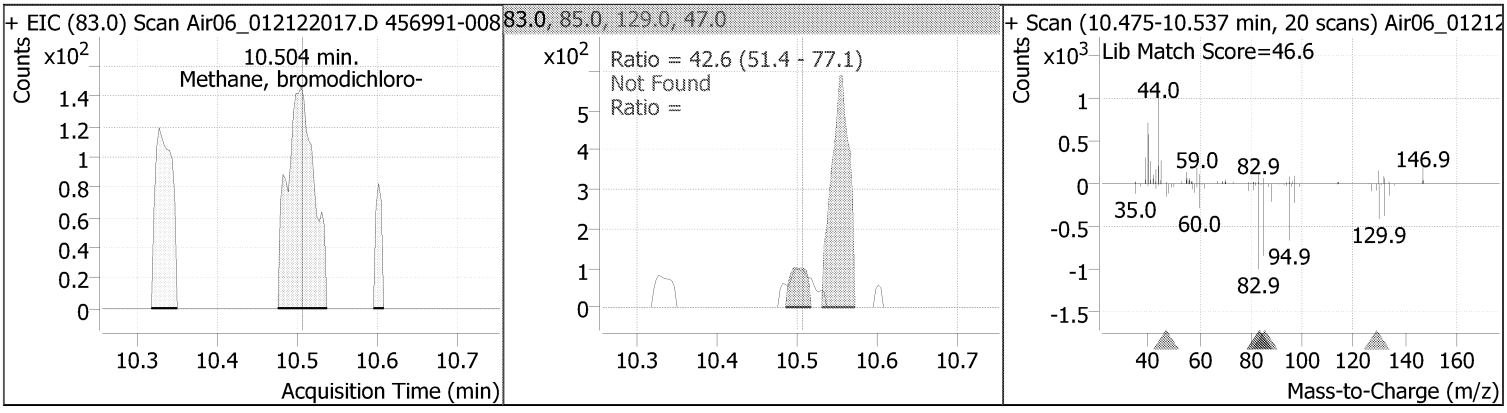
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0391 | 9.91 | 0.04 | 2247 | 56.0 | 2055.7 | 131.3 | 197.0 |
| | | | | | 41.0 | 35.4 | 72.0 | 108.0 |
| | | | | | 55.0 | 364.3 | 48.2 | 72.3 |
| | | | | | 69.0 | 2130.0 | 35.8 | 53.6 |



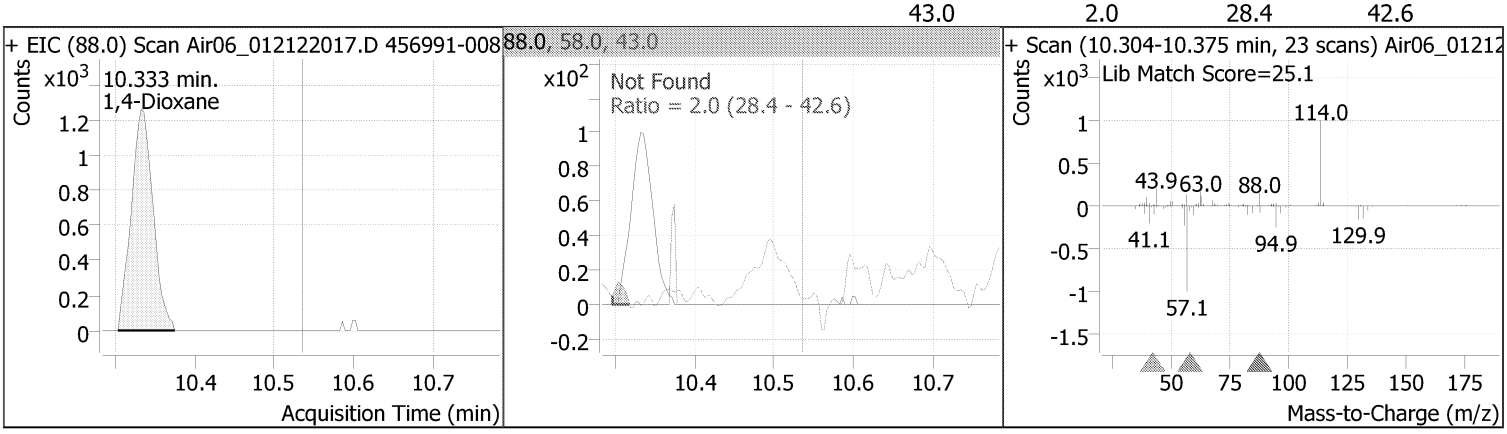

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0463 | 10.33 | -0.01 | 2997 | 62.0 | 21.8 | 55.6 | 83.4 |
| | | | | | 41.0 | | 46.5 | 69.7 |
| | | | | | 76.0 | 1.3 | 28.4 | 42.6 |
| | | | | | 65.0 | | 23.7 | 35.6 |
| | | | | | 64.0 | 14.8 | 18.8 | 28.2 |



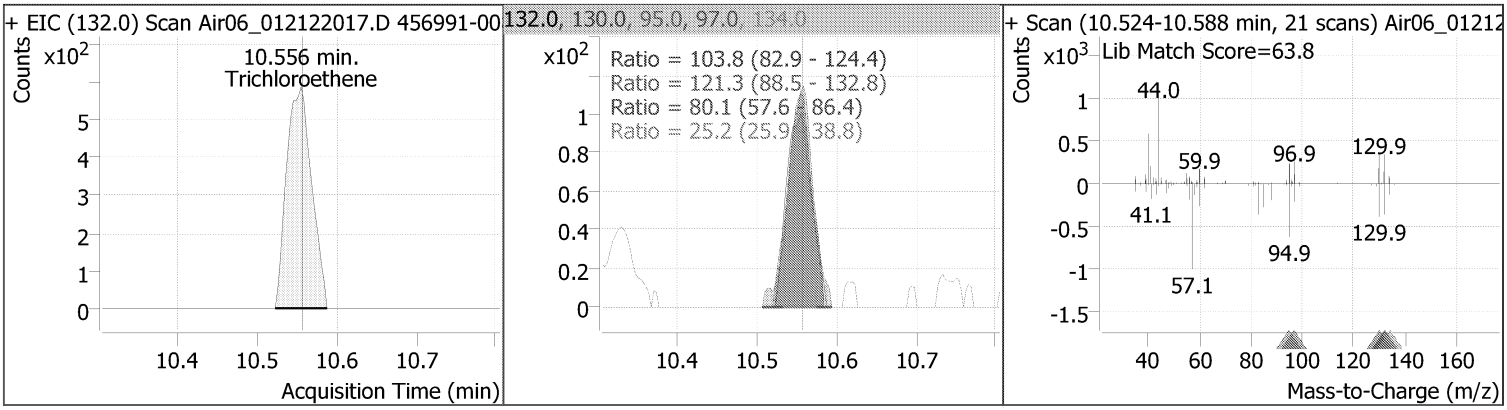

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0033 | 10.50 | 0.00 | 344 | 85.0 | 42.6 | 51.4 | 77.1 |
| | | | | | 47.0 | | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



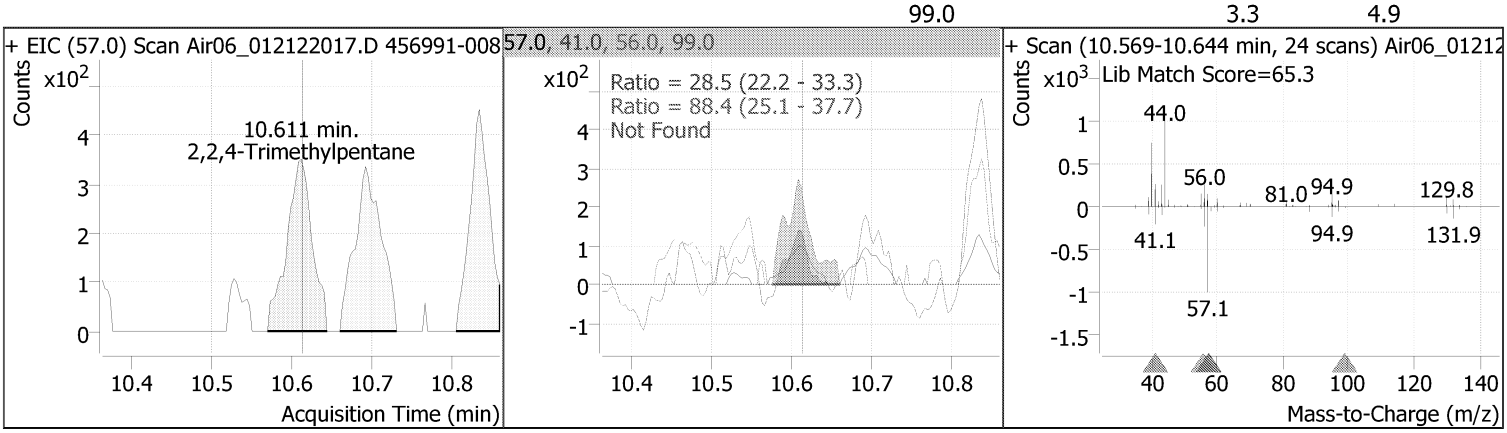
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0709 | 10.33 | -0.20 | 2398 | 58.0 | | 67.8 | 101.6 |
| | | | | | 43.0 | 2.0 | 28.4 | 42.6 |



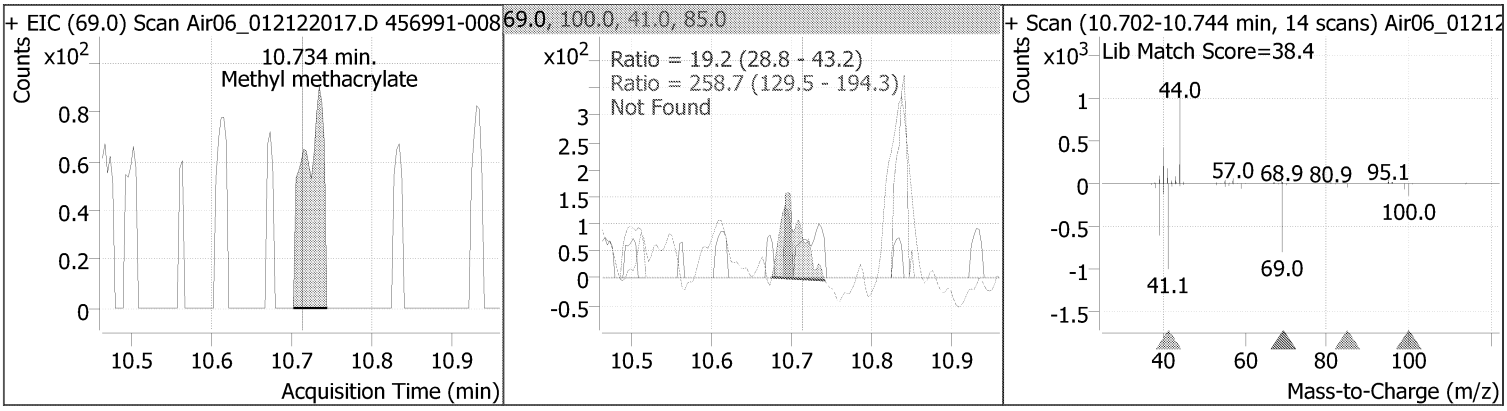

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0194 | 10.56 | 0.00 | 1281 | 95.0 | 121.3 | 88.5 | 132.8 |
| | | | | | 130.0 | 103.8 | 82.9 | 124.4 |
| | | | | | 97.0 | 80.1 | 57.6 | 86.4 |
| | | | | | 134.0 | 25.2 | 25.9 | 38.8 |



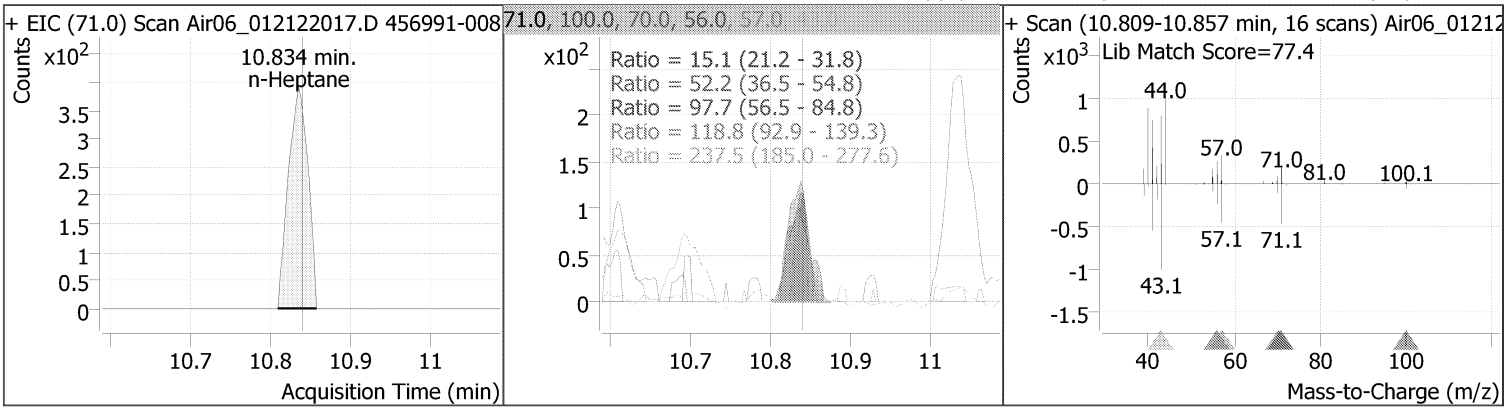

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0026 | 10.61 | 0.00 | 779 | 56.0 | 88.4 | 25.1 | 37.7 |
| | | | | | 41.0 | 28.5 | 22.2 | 33.3 |
| | | | | | 99.0 | | 3.3 | 4.9 |



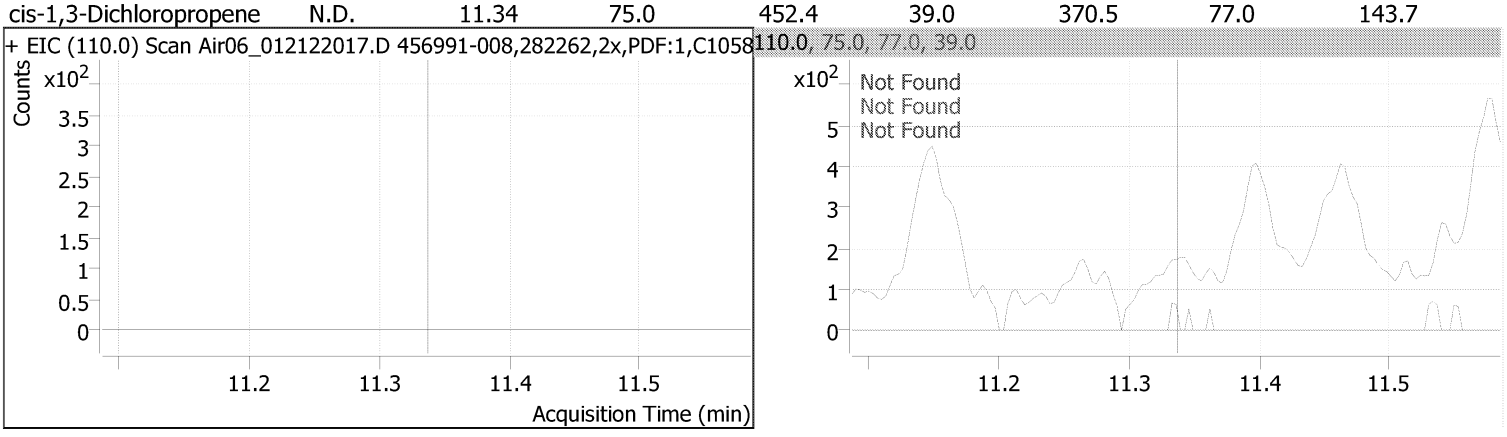
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0028 | 10.73 | 0.02 | 154 | 41.0 | 258.7 | 129.5 | 194.3 |
| | | | | | 100.0 | 19.2 | 28.8 | 43.2 |
| | | | | | 85.0 | | 7.3 | 10.9 |



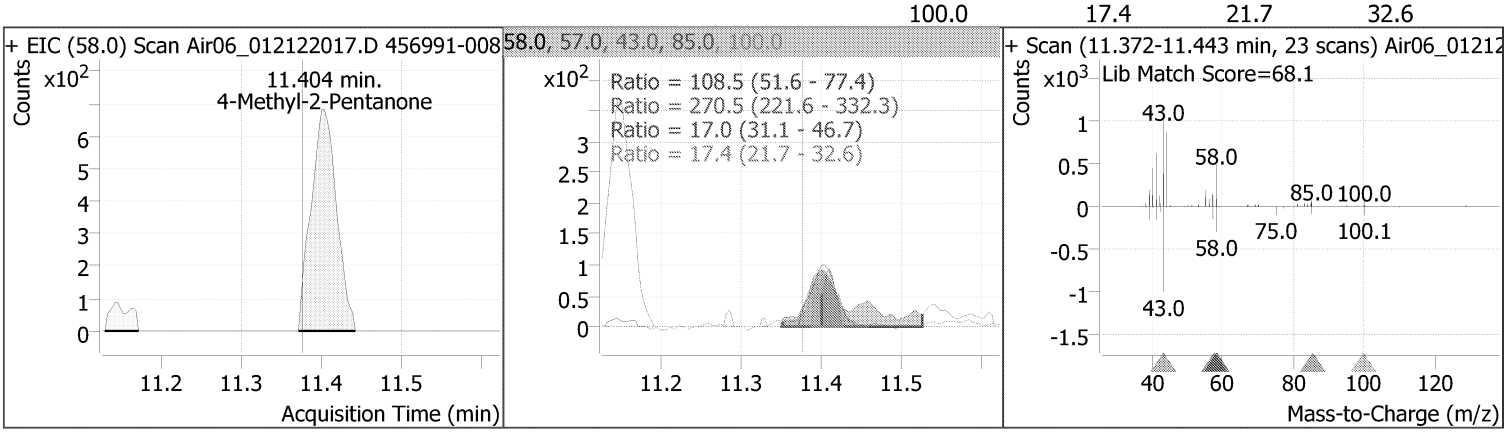

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.0131 | 10.83 | 0.00 | 666 | 43.0 | 237.5 | 185.0 | 277.6 |
| | | | | | 57.0 | 118.8 | 92.9 | 139.3 |
| | | | | | 56.0 | 97.7 | 56.5 | 84.8 |
| | | | | | 70.0 | 52.2 | 36.5 | 54.8 |
| | | | | | 100.0 | 15.1 | 21.2 | 31.8 |



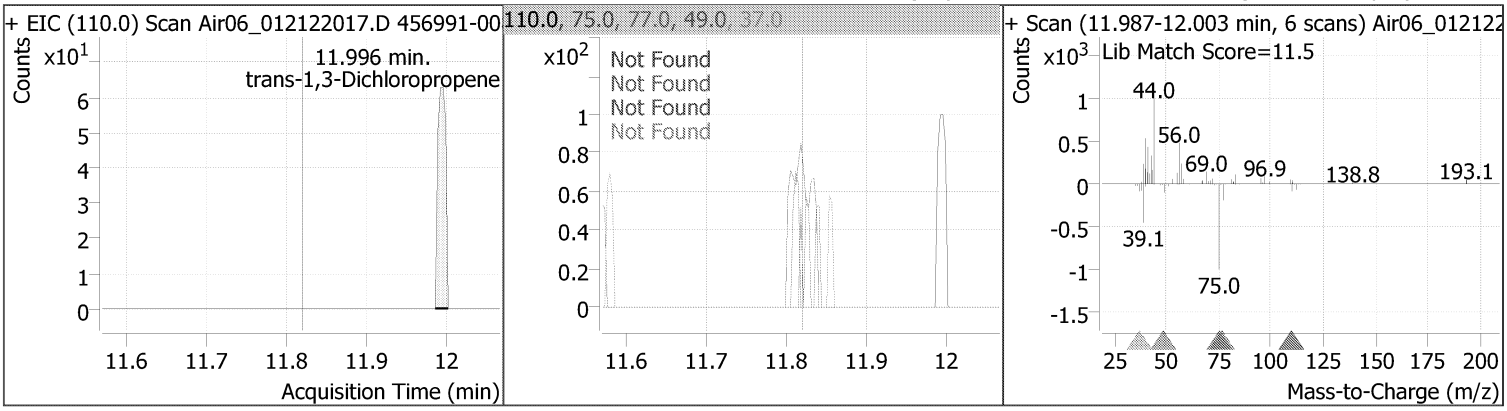

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | N.D. | 11.34 | 75.0 | 452.4 | 39.0 | 370.5 | 77.0 | 143.7 |



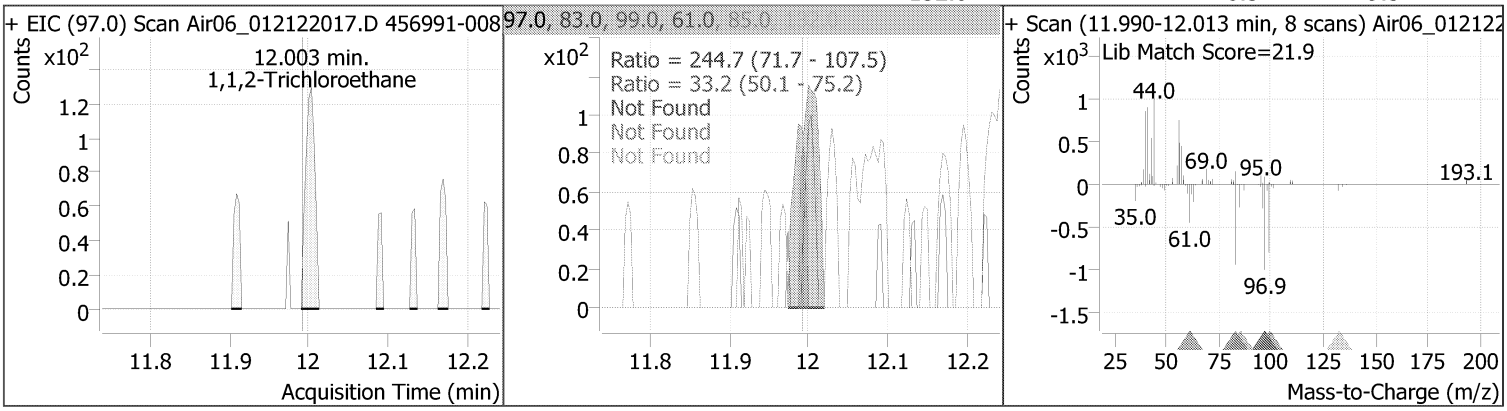
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0267 | 11.40 | 0.03 | 1515 | 43.0 | 270.5 | 221.6 | 332.3 |
| | | | | | 57.0 | 108.5 | 51.6 | 77.4 |
| | | | | | 85.0 | 17.0 | 31.1 | 46.7 |
| | | | | | 100.0 | 17.4 | 21.7 | 32.6 |



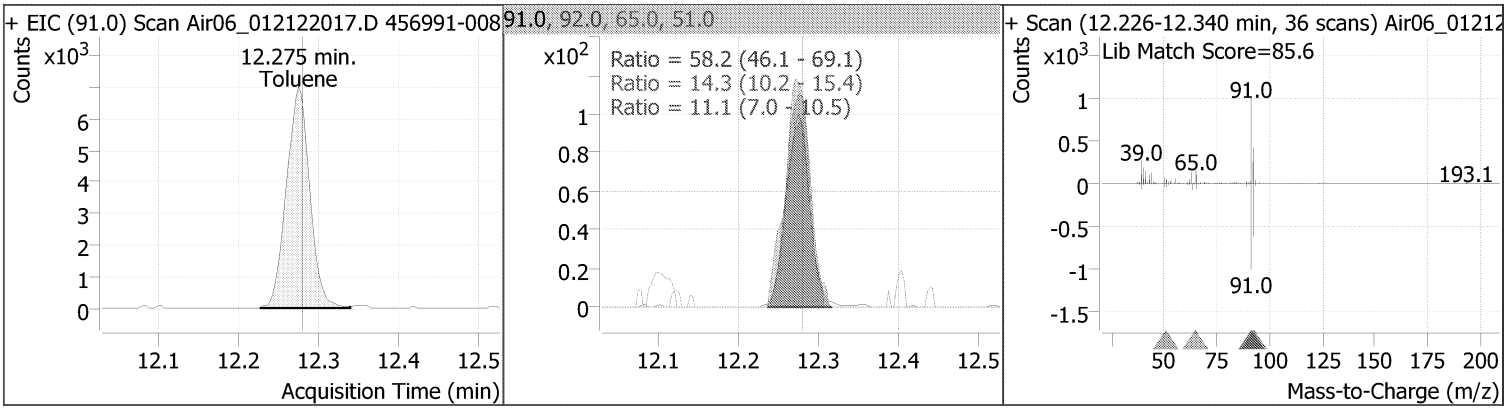

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.0021 | 12.00 | 0.18 | 45 | 75.0 | | 340.2 | 510.3 |
| | | | | | 77.0 | | 108.1 | 162.1 |
| | | | | | 49.0 | | 88.0 | 132.1 |
| | | | | | 37.0 | | 43.2 | 64.8 |



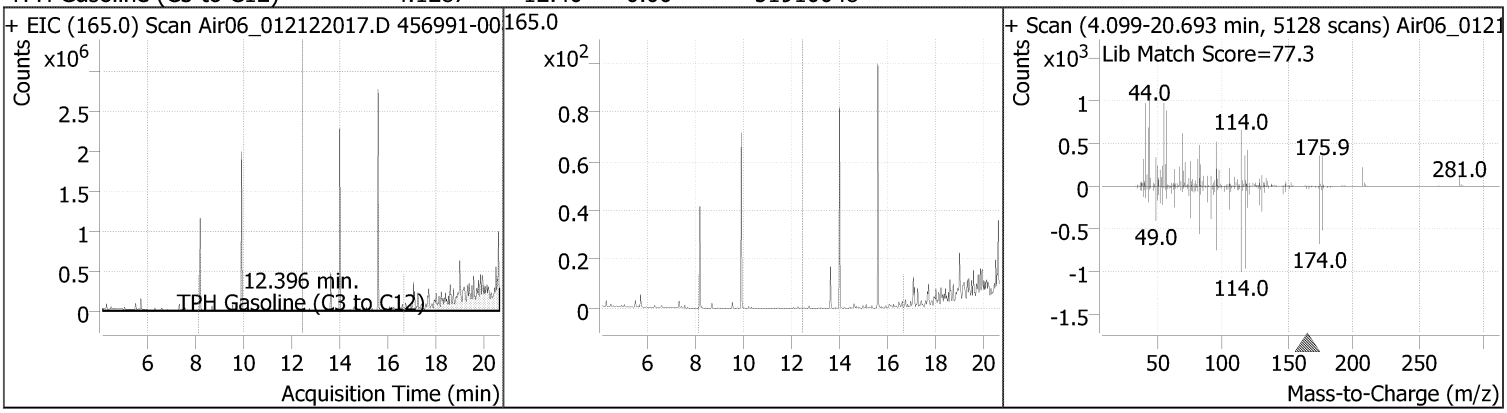

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.0017 | 12.00 | 0.01 | 107 | 83.0 | 244.7 | 71.7 | 107.5 |
| | | | | | 61.0 | | 56.8 | 85.2 |
| | | | | | 99.0 | 33.2 | 50.1 | 75.2 |
| | | | | | 85.0 | | 46.0 | 69.0 |
| | | | | | 132.0 | | 6.3 | 9.5 |



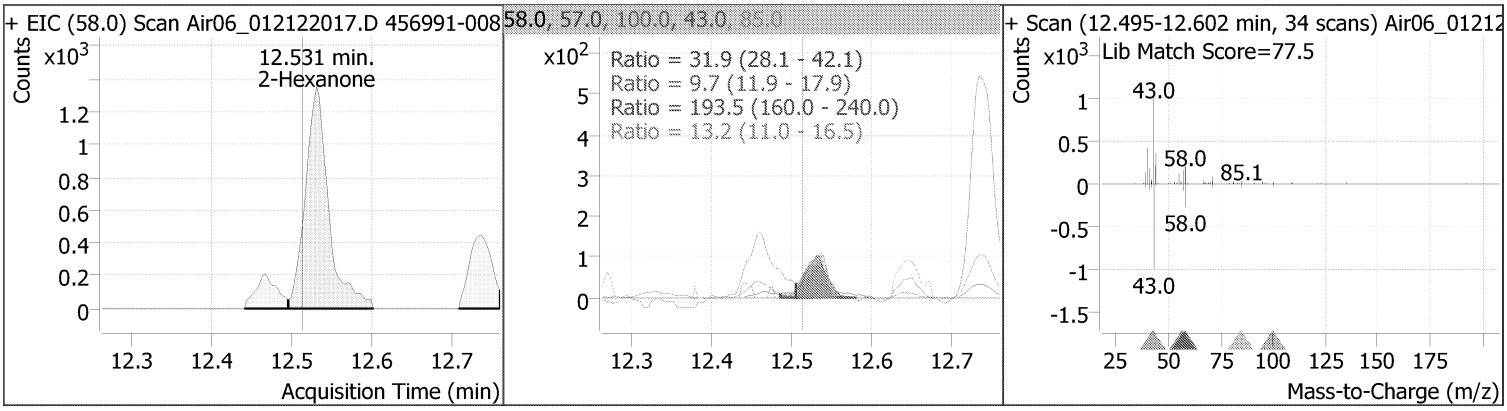
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0761 | 12.27 | 0.00 | 14269 | 92.0 | 58.2 | 46.1 | 69.1 |
| | | | | | 65.0 | 14.3 | 10.2 | 15.4 |
| | | | | | 51.0 | 11.1 | 7.0 | 10.5 |



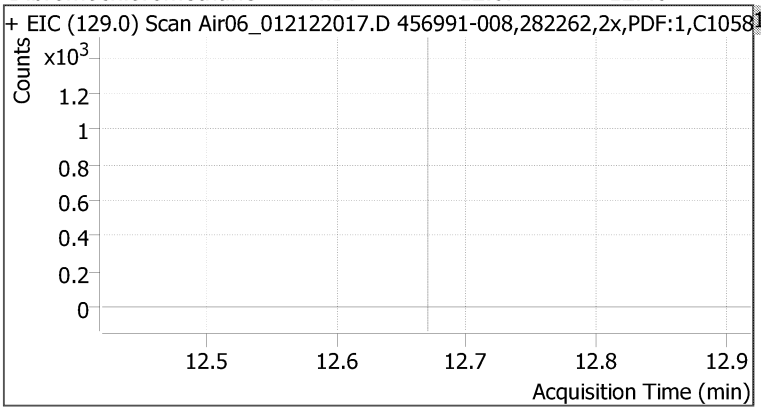

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 4.1287 | 12.40 | 0.00 | 51910048 | | | | |

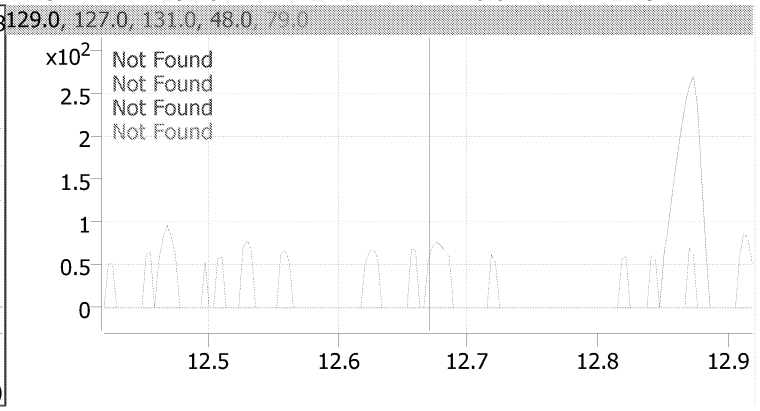



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.0376 | 12.53 | 0.02 | 2746 | 43.0 | 193.5 | 160.0 | 240.0 |
| | | | | | 57.0 | 31.9 | 28.1 | 42.1 |
| | | | | | 100.0 | 9.7 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.2 | 11.0 | 16.5 |

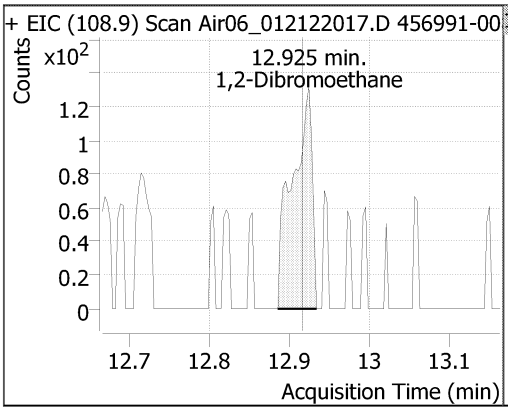


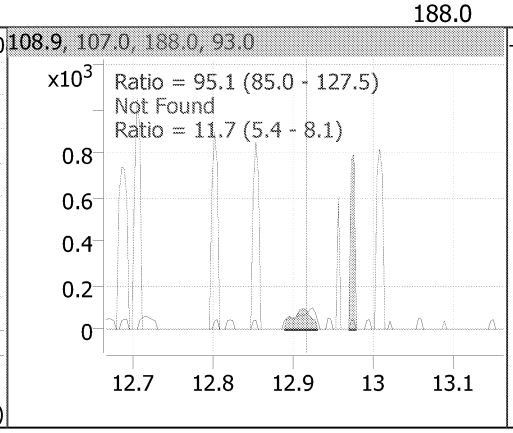
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | N.D. | 12.67 | 127.0 | 77.5 | 131.0 | 24.2 | 48.0 | 17.5 |

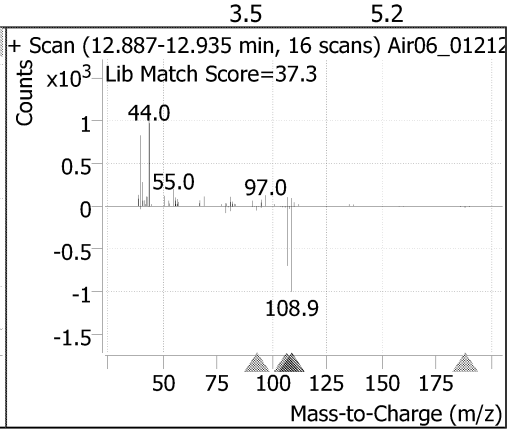


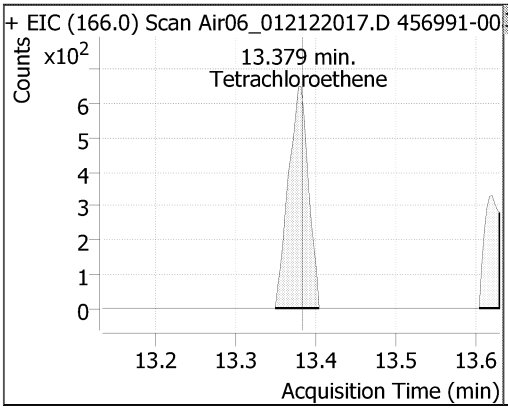

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.0024 | 12.93 | 0.01 | 229 | 107.0 | 95.1 | 85.0 | 127.5 |
| | | | | | 93.0 | 11.7 | 5.4 | 8.1 |
| | | | | | 188.0 | | 3.5 | 5.2 |

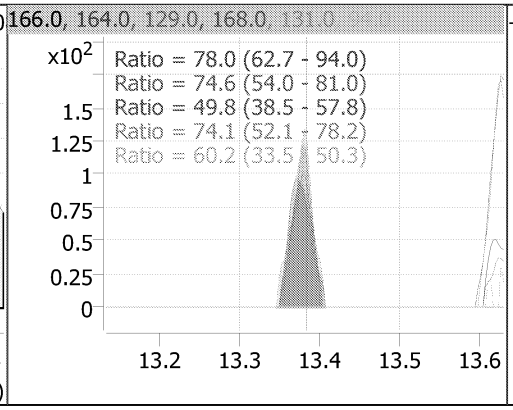


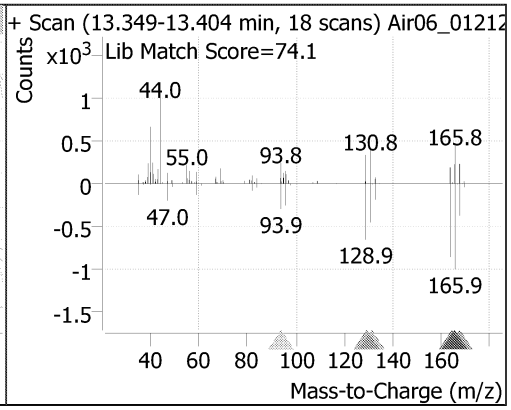



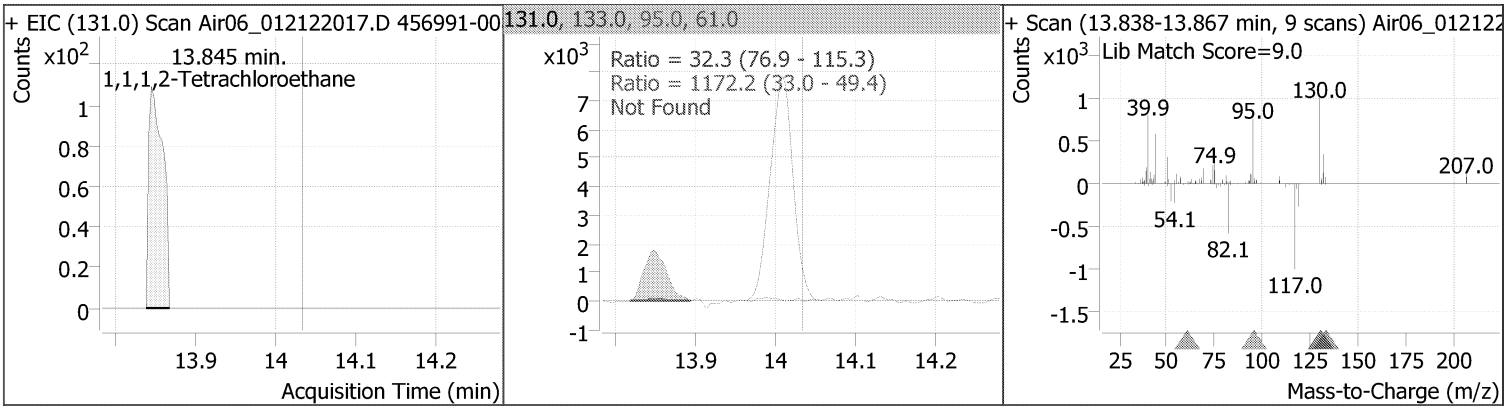

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0117 | 13.38 | 0.00 | 1130 | 164.0 | 78.0 | 62.7 | 94.0 |
| | | | | | 129.0 | 74.6 | 54.0 | 81.0 |
| | | | | | 131.0 | 74.1 | 52.1 | 78.2 |
| | | | | | 168.0 | 49.8 | 38.5 | 57.8 |
| | | | | | 94.0 | 60.2 | 33.5 | 50.3 |



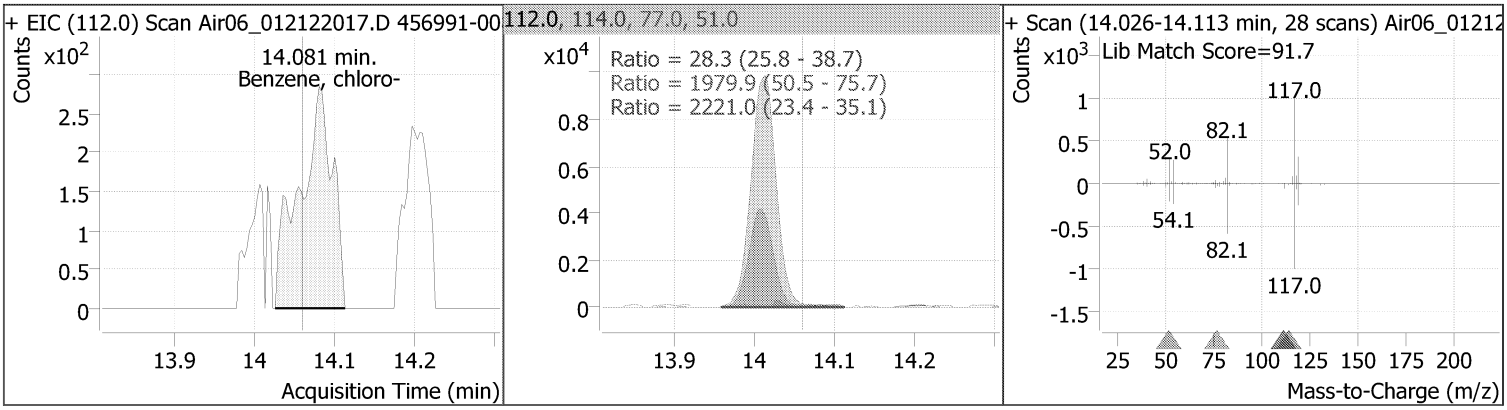



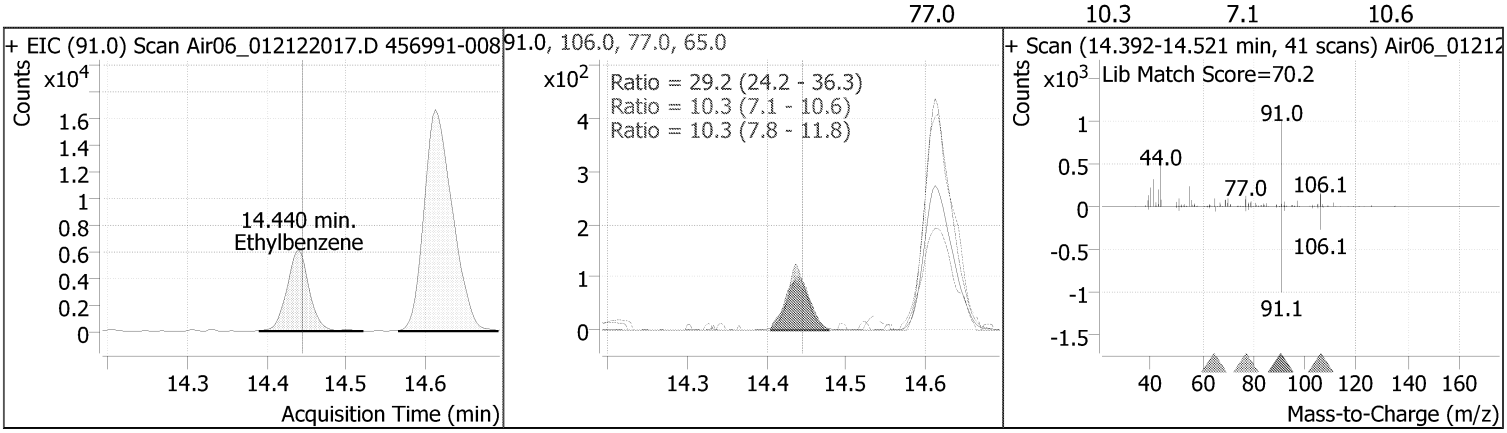
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0020 | 13.84 | -0.19 | 135 | 133.0 | 32.3 | 76.9 | 115.3 |
| | | | | | 95.0 | 1172.2 | 33.0 | 49.4 |
| | | | | | 61.0 | | 25.4 | 38.1 |



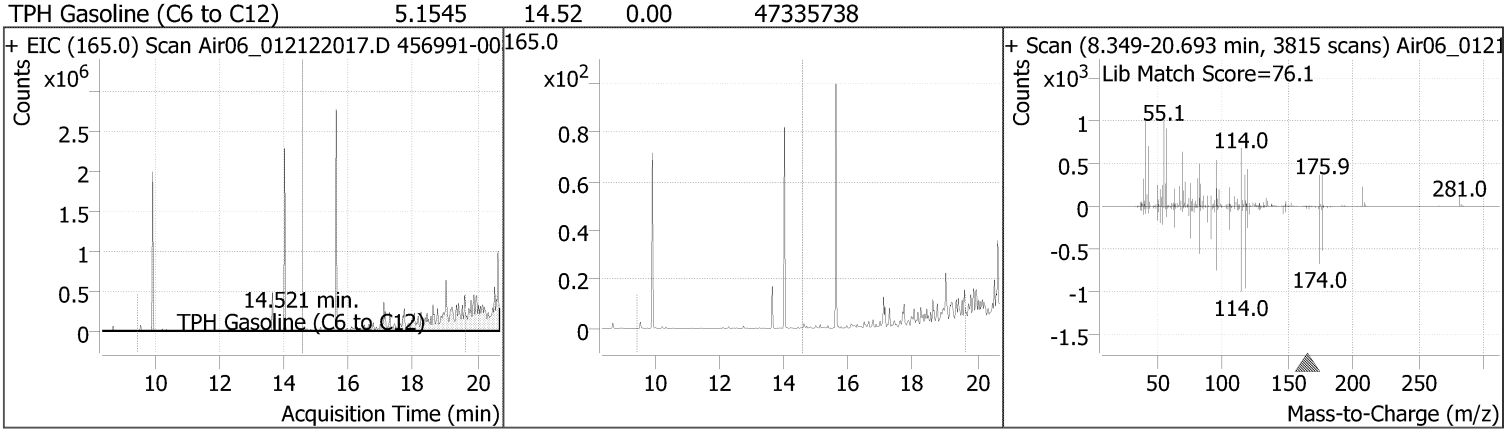

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0062 | 14.08 | 0.02 | 824 | 77.0 | 1979.9 | 50.5 | 75.7 |
| | | | | | 114.0 | 28.3 | 25.8 | 38.7 |
| | | | | | 51.0 | 2221.0 | 23.4 | 35.1 |



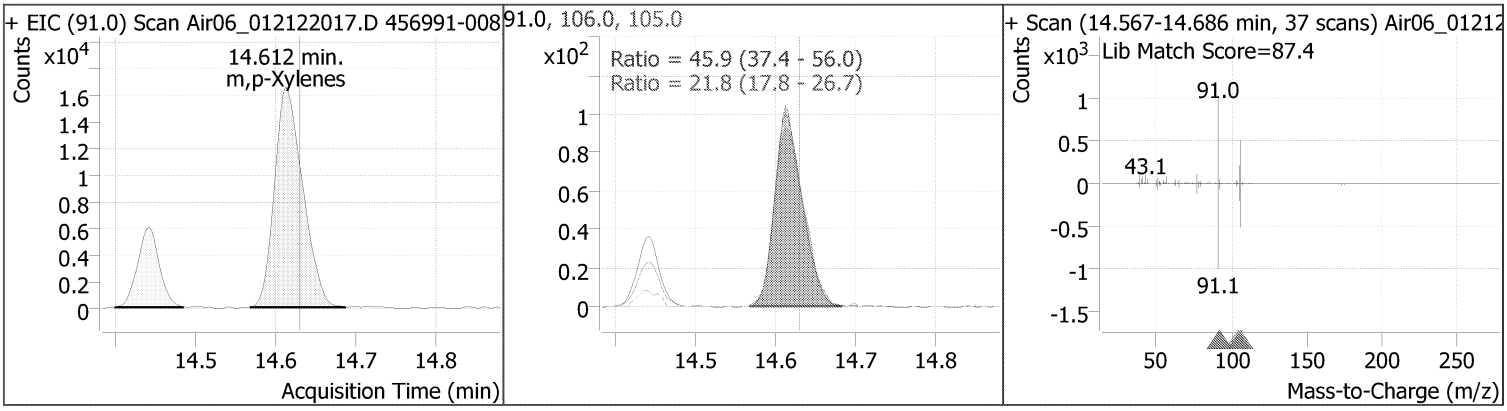

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0564 | 14.44 | -0.01 | 11969 | 106.0 | 29.2 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.3 | 7.8 | 11.8 |
| | | | | | 77.0 | 10.3 | 7.1 | 10.6 |



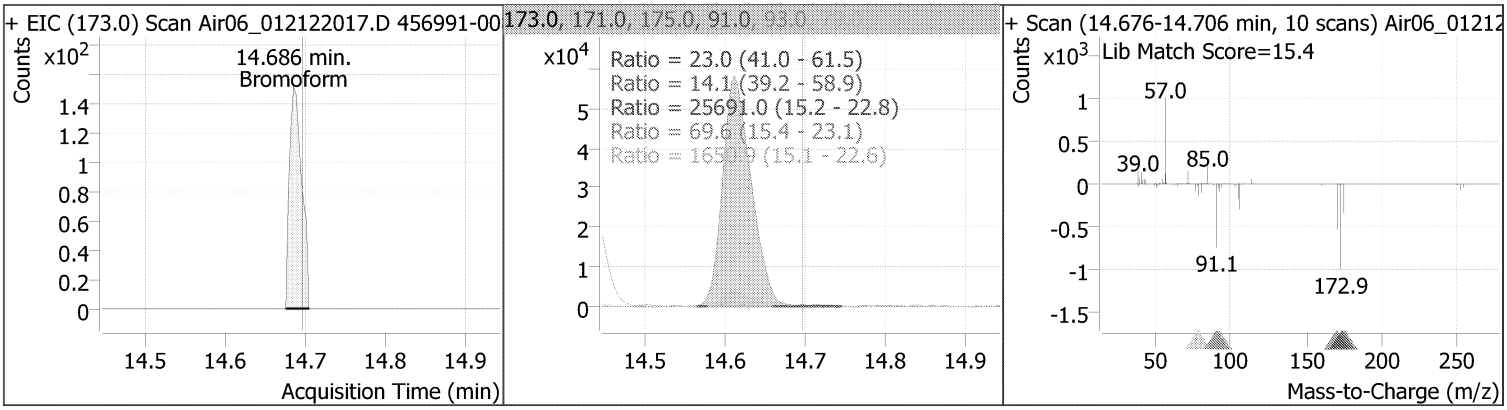
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 5.1545 | 14.52 | 0.00 | 47335738 | | | | |



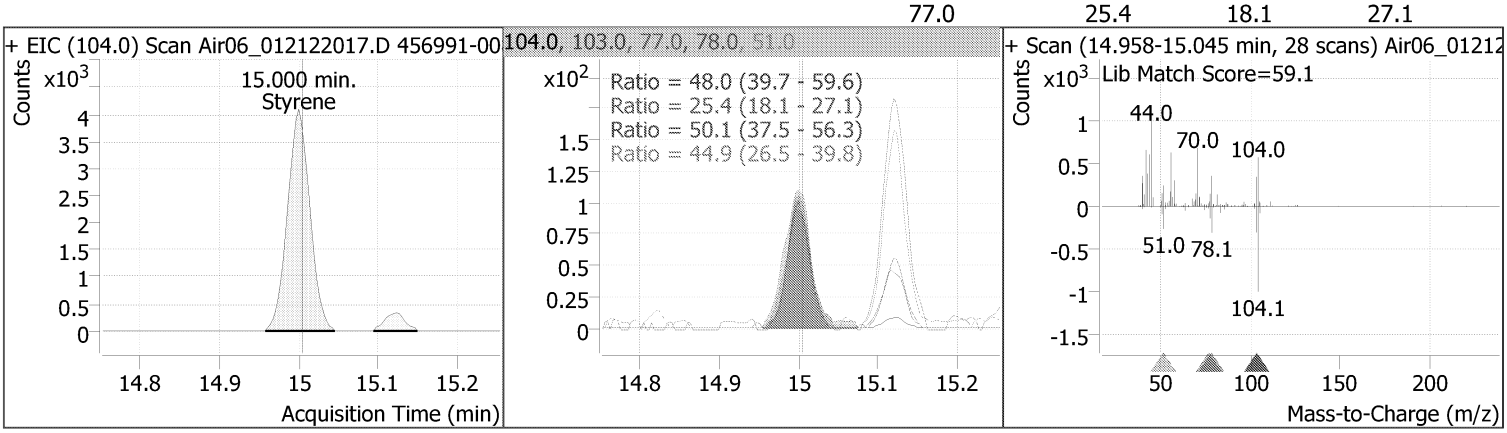

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.2395 | 14.61 | -0.02 | 40901 | 106.0 | 45.9 | 37.4 | 56.0 |
| | | | | | 105.0 | 21.8 | 17.8 | 26.7 |



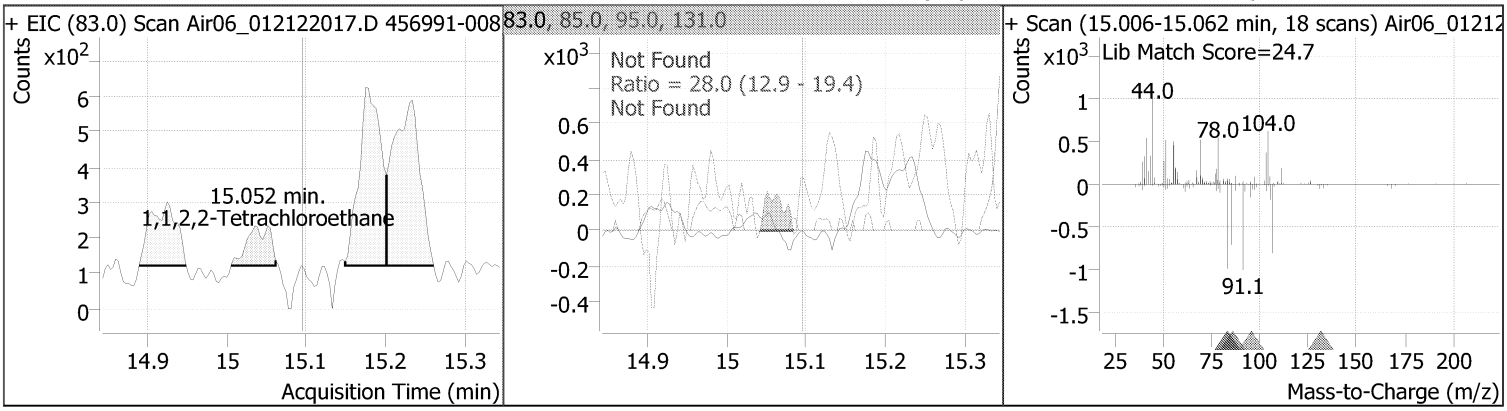

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.0014 | 14.69 | -0.01 | 162 | 171.0 | 23.0 | 41.0 | 61.5 |
| | | | | | 175.0 | 14.1 | 39.2 | 58.9 |
| | | | | | 93.0 | 69.6 | 15.4 | 23.1 |
| | | | | | 91.0 | 25691.0 | 15.2 | 22.8 |
| | | | | | 79.0 | 1650.9 | 15.1 | 22.6 |



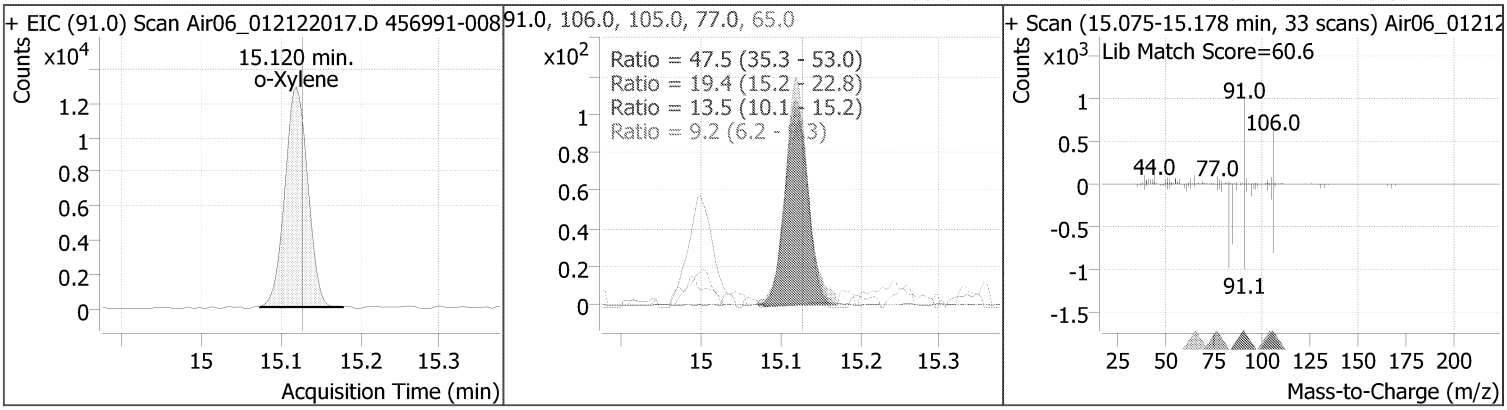
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.0592 | 15.00 | -0.01 | 8011 | 103.0 | 48.0 | 39.7 | 59.6 |
| | | | | | 78.0 | 50.1 | 37.5 | 56.3 |
| | | | | | 51.0 | 44.9 | 26.5 | 39.8 |
| | | | | | 77.0 | 25.4 | 18.1 | 27.1 |



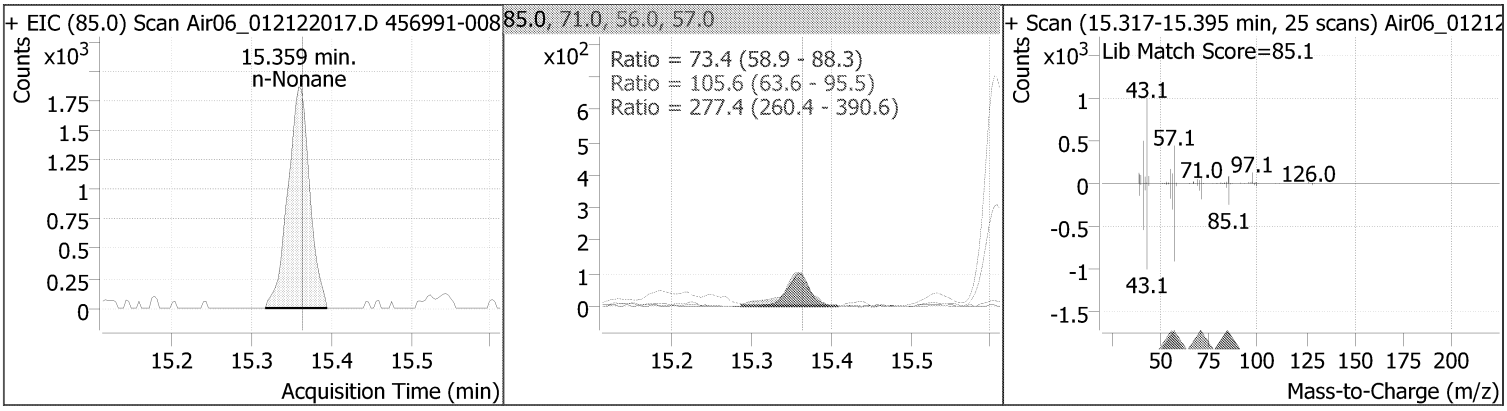

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.0017 | 15.05 | -0.05 | 222 | 85.0 | | 51.6 | 77.5 |
| | | | | | 95.0 | 28.0 | 12.9 | 19.4 |
| | | | | | 131.0 | | 7.8 | 11.7 |



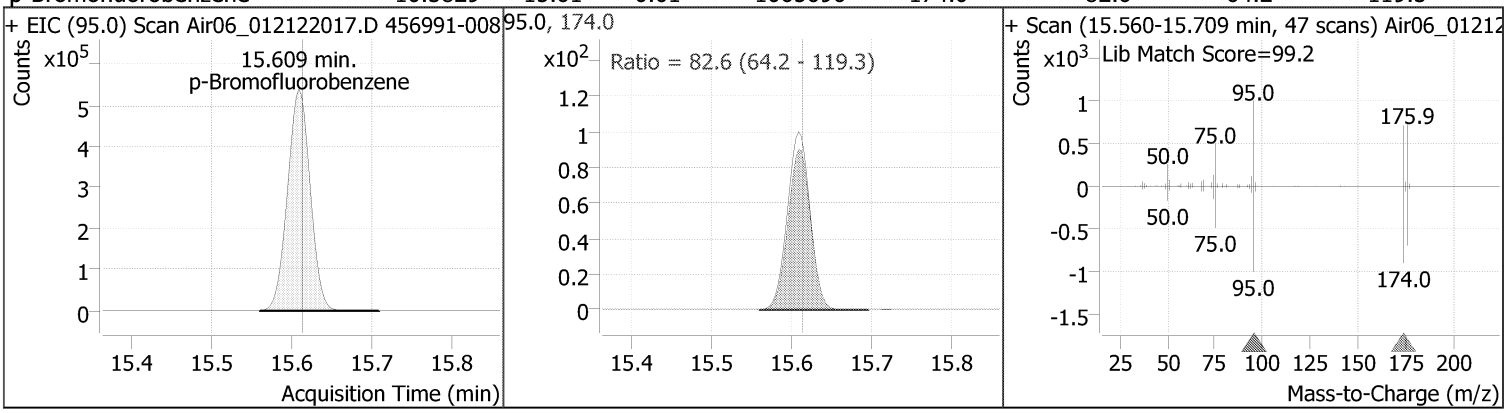

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.1467 | 15.12 | -0.01 | 25756 | 106.0 | 47.5 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.4 | 15.2 | 22.8 |
| | | | | | 77.0 | 13.5 | 10.1 | 15.2 |
| | | | | | 65.0 | 9.2 | 6.2 | 9.3 |



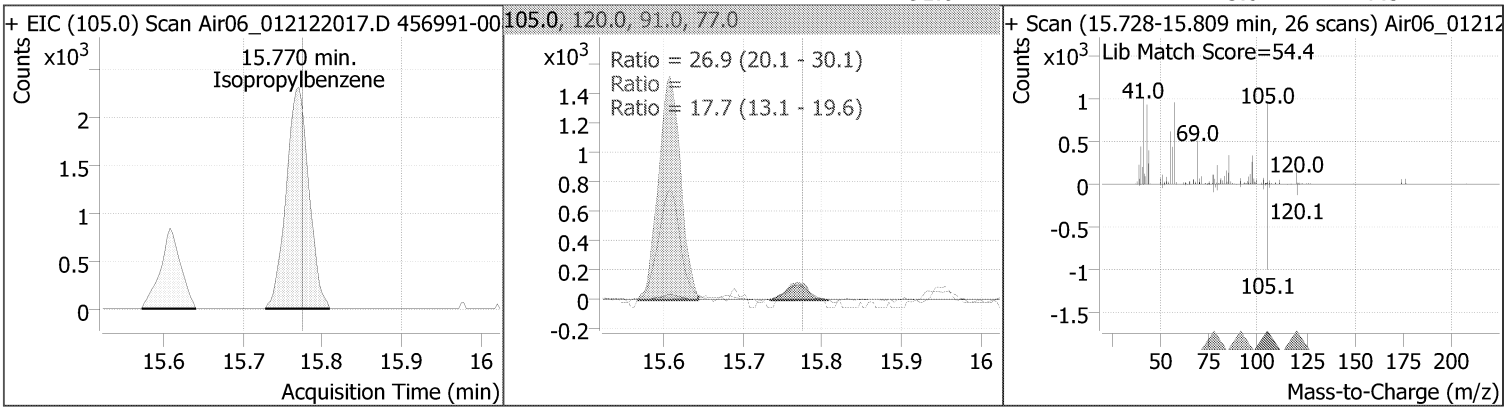
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.0876 | 15.36 | -0.01 | 3554 | 57.0 | 277.4 | 260.4 | 390.6 |
| | | | | | 56.0 | 105.6 | 63.6 | 95.5 |
| | | | | | 71.0 | 73.4 | 58.9 | 88.3 |



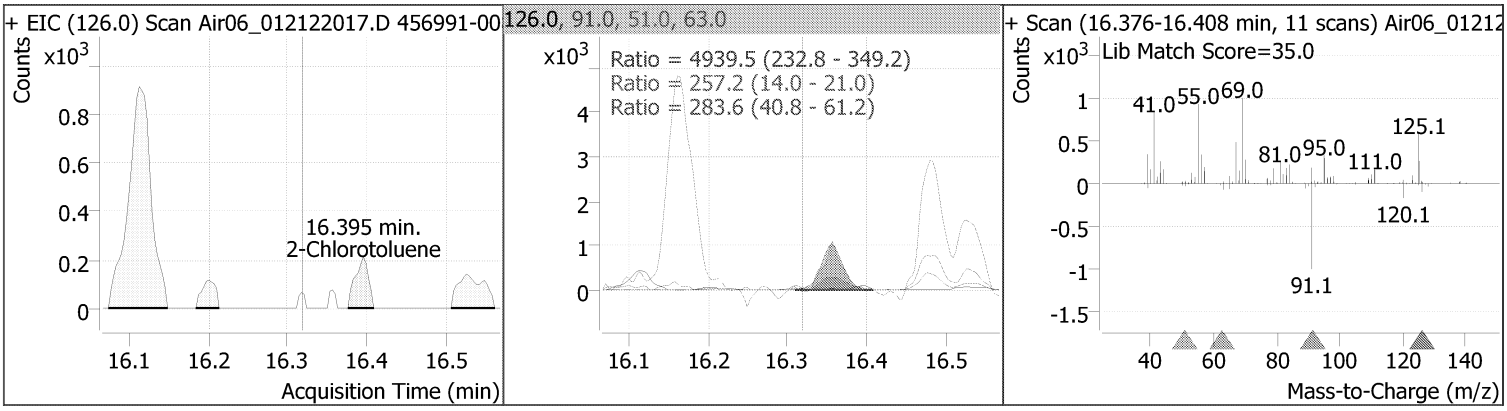

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.3829 | 15.61 | -0.01 | 1065696 | 174.0 | 82.6 | 64.2 | 119.3 |



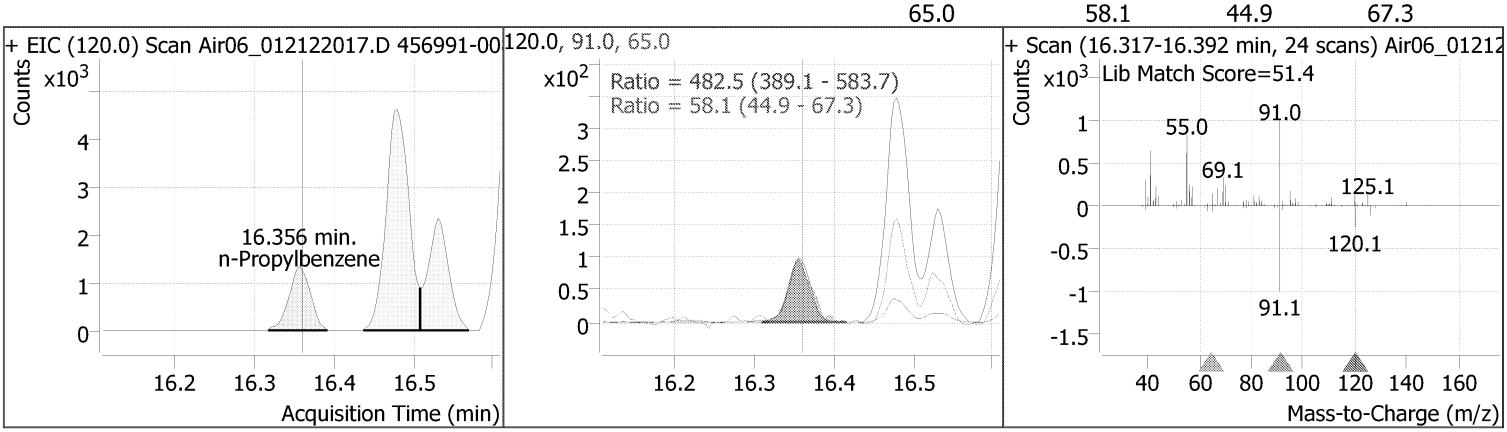

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0191 | 15.77 | -0.01 | 4588 | 120.0 | 26.9 | 20.1 | 30.1 |
| | | | | | 77.0 | 17.7 | 13.1 | 19.6 |
| | | | | | 91.0 | | 5.0 | 7.5 |



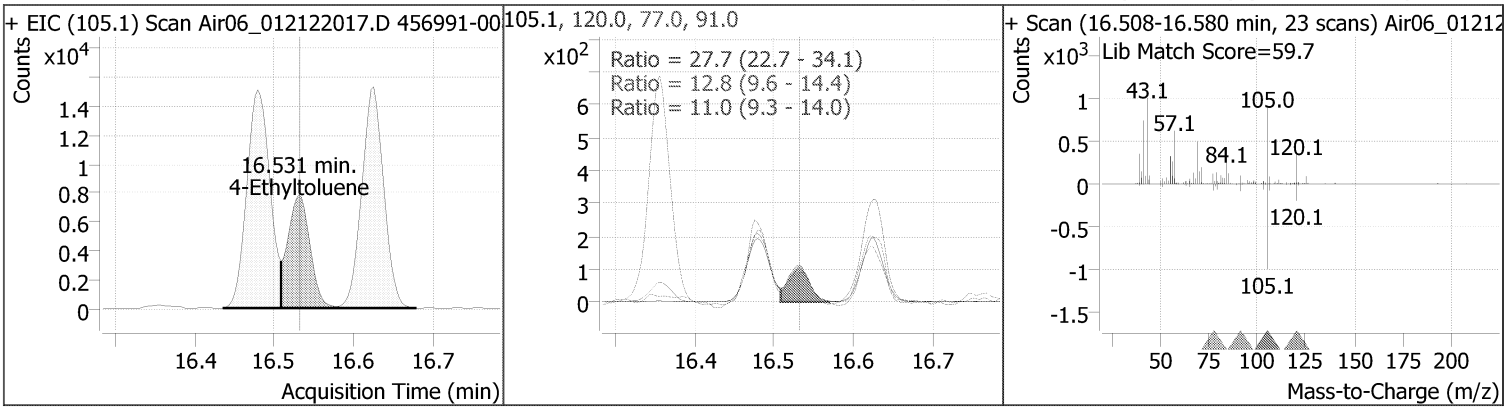
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.0040 | 16.40 | 0.07 | 244 | 91.0 | 4939.5 | 232.8 | 349.2 |
| | | | | | 63.0 | 283.6 | 40.8 | 61.2 |
| | | | | | 51.0 | 257.2 | 14.0 | 21.0 |



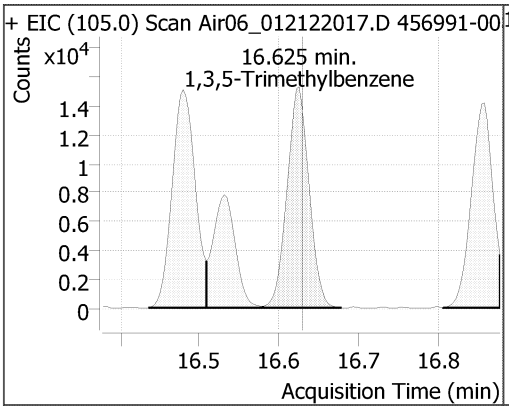

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0372 | 16.36 | -0.01 | 2499 | 91.0 | 482.5 | 389.1 | 583.7 |
| | | | | | 65.0 | 58.1 | 44.9 | 67.3 |

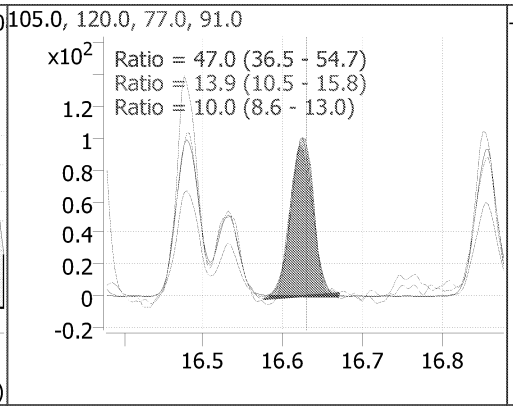


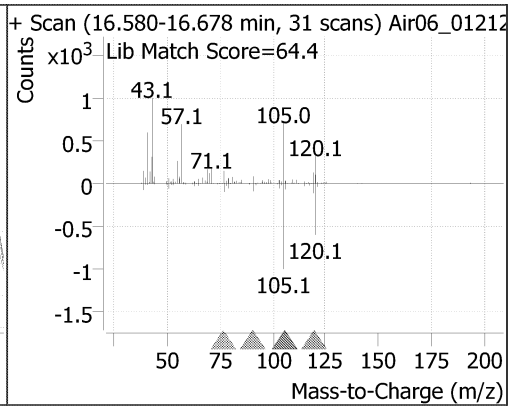

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0641 | 16.53 | -0.01 | 15266 | 120.0 | 27.7 | 22.7 | 34.1 |
| | | | | | 77.0 | 12.8 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.0 | 9.3 | 14.0 |



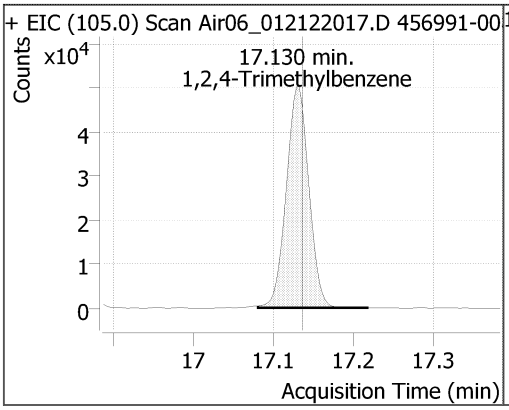
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.1422 | 16.62 | -0.01 | 29329 | 120.0 | 47.0 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.9 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.0 | 8.6 | 13.0 |

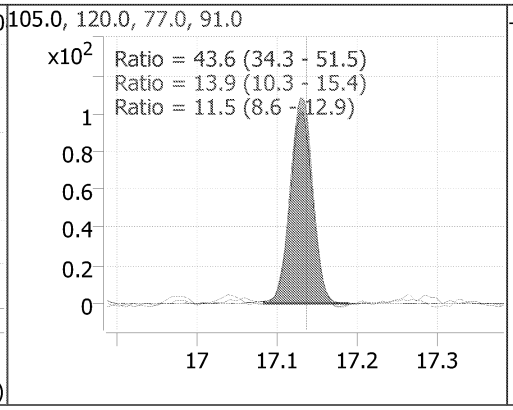


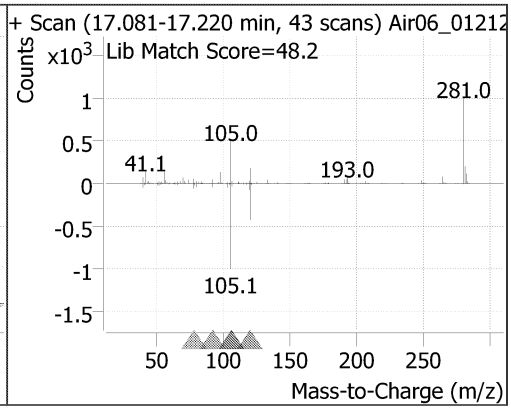



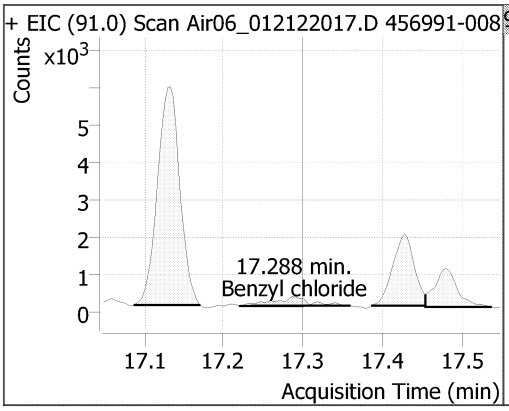

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.4862 | 17.13 | -0.01 | 99570 | 120.0 | 43.6 | 34.3 | 51.5 |
| | | | | | 77.0 | 13.9 | 10.3 | 15.4 |
| | | | | | 91.0 | 11.5 | 8.6 | 12.9 |

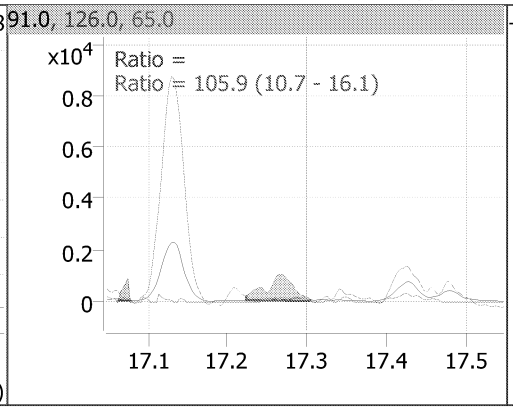


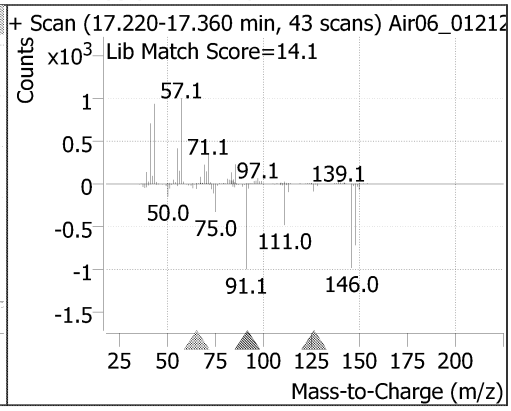



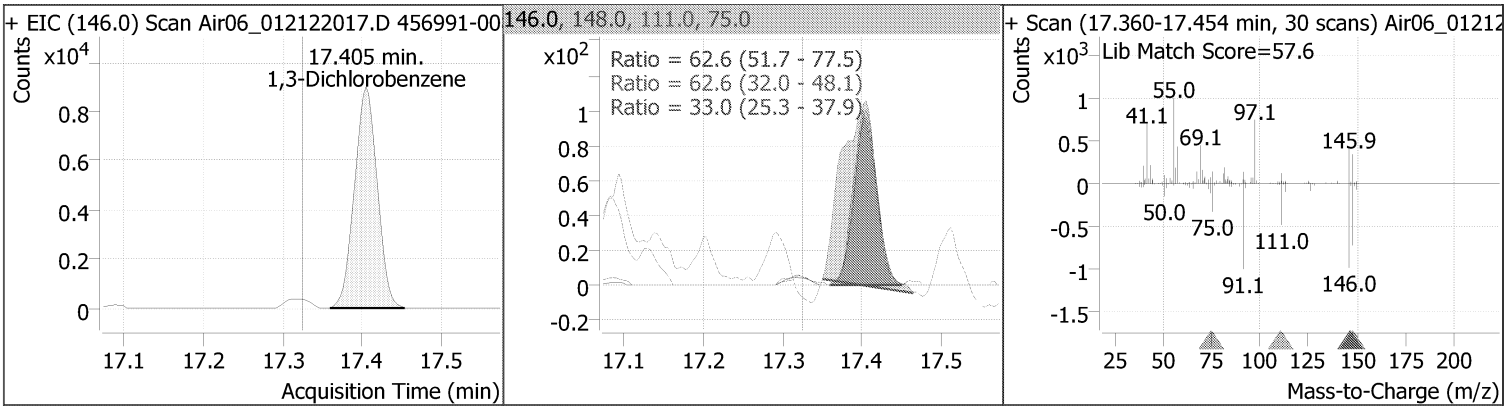

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0045 | 17.29 | -0.01 | 802 | 126.0 | | 15.5 | 23.2 |
| | | | | | 65.0 | 105.9 | 10.7 | 16.1 |



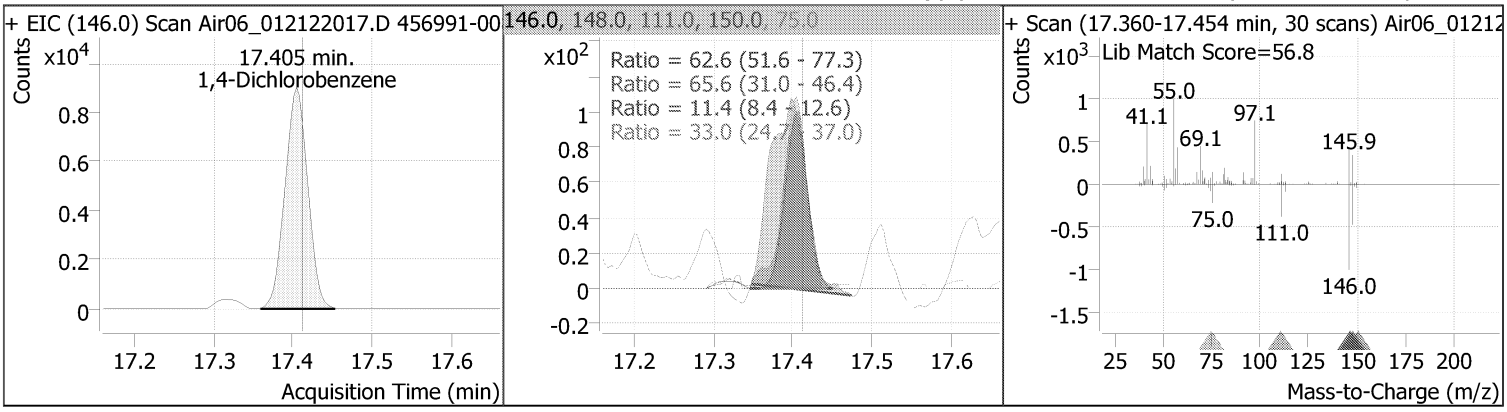



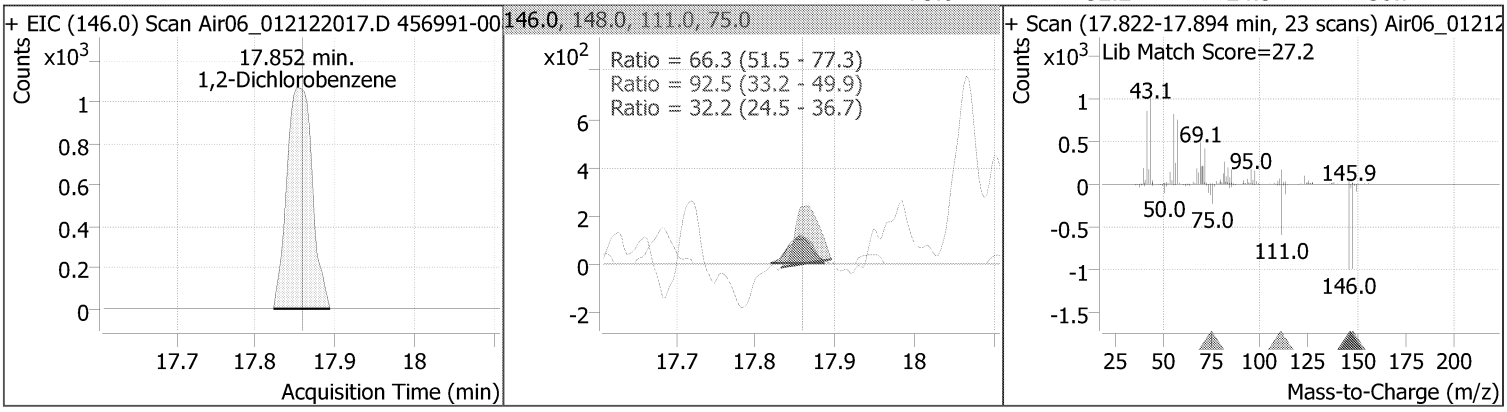
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.1280 | 17.40 | 0.08 | 17978 | 148.0 | 62.6 | 51.7 | 77.5 |
| | | | | | 111.0 | 62.6 | 32.0 | 48.1 |
| | | | | | 75.0 | 33.0 | 25.3 | 37.9 |



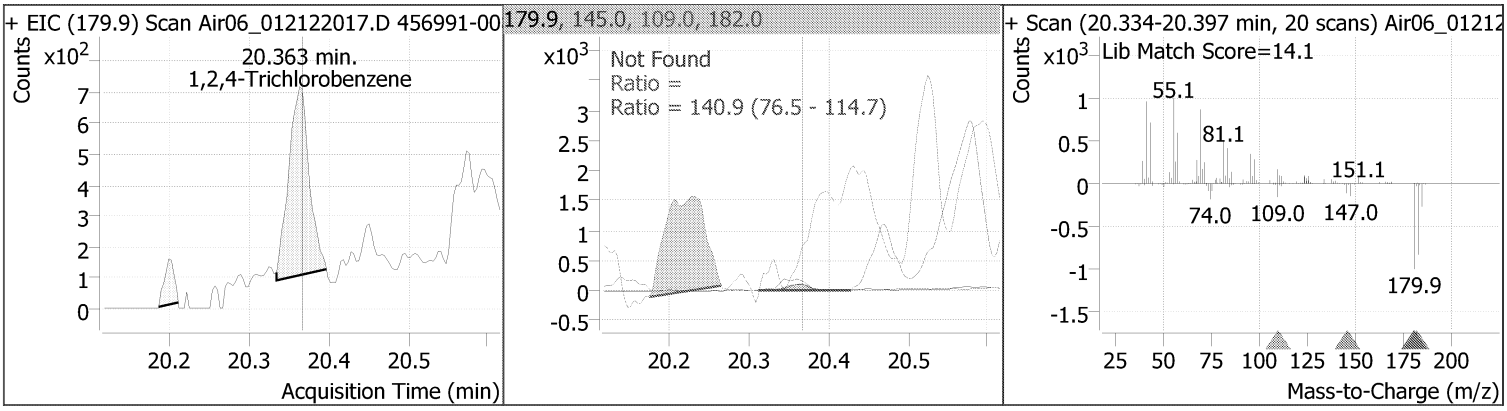

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.1266 | 17.40 | -0.01 | 17978 | 148.0 | 62.6 | 51.6 | 77.3 |
| | | | | | 111.0 | 65.6 | 31.0 | 46.4 |
| | | | | | 75.0 | 33.0 | 24.7 | 37.0 |
| | | | | | 150.0 | 11.4 | 8.4 | 12.6 |



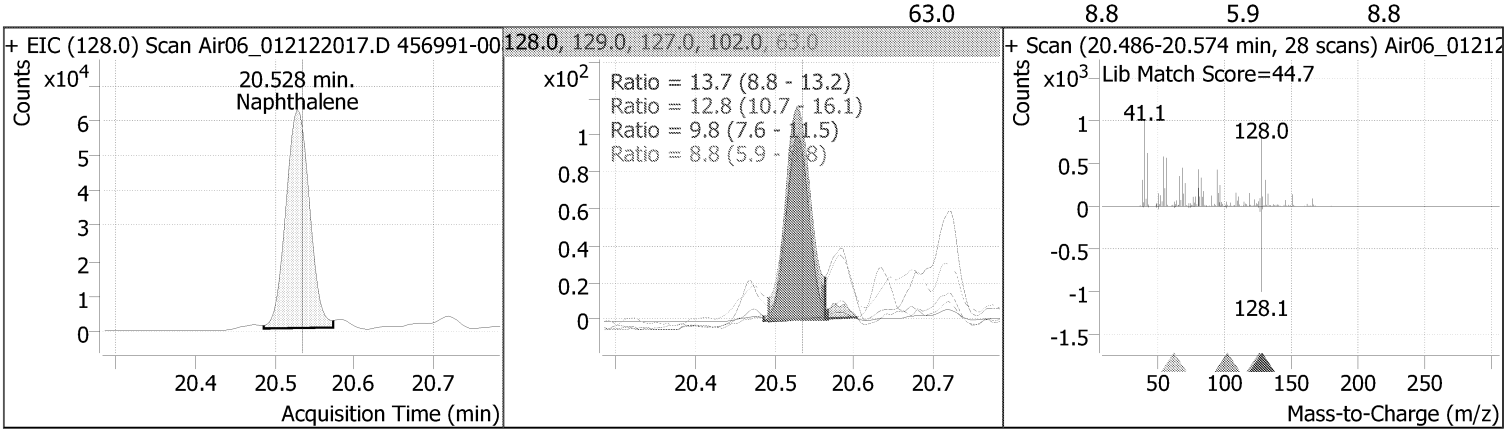

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.0174 | 17.85 | -0.01 | 2385 | 148.0 | 66.3 | 51.5 | 77.3 |
| | | | | | 111.0 | 92.5 | 33.2 | 49.9 |
| | | | | | 75.0 | 32.2 | 24.5 | 36.7 |



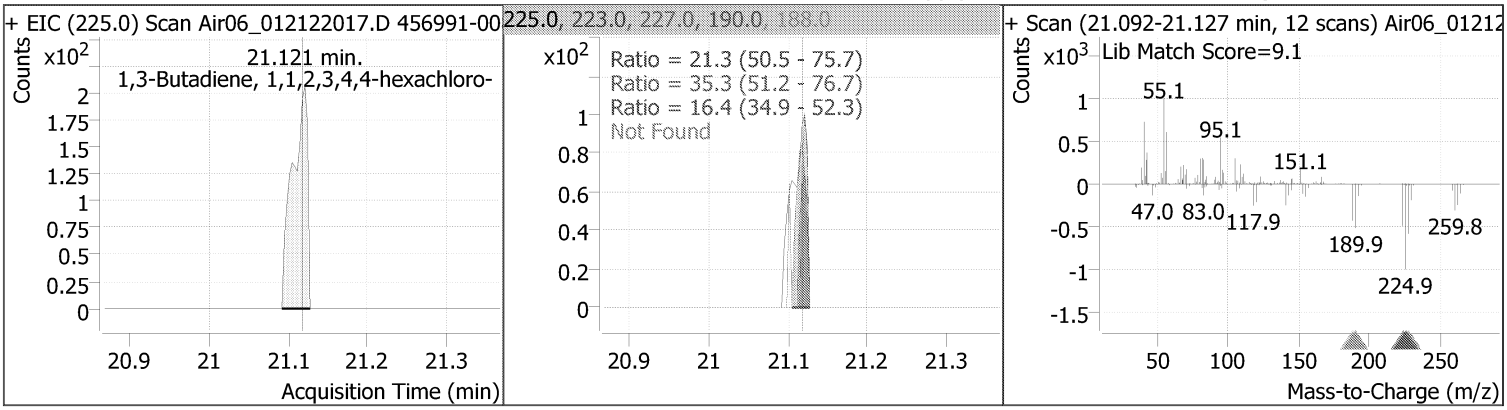
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0098 | 20.36 | -0.01 | 1103 | 182.0 | 140.9 | 76.5 | 114.7 |
| | | | | | 145.0 | | 22.2 | 33.3 |
| | | | | | 109.0 | | 18.1 | 27.2 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.5575 | 20.53 | -0.01 | 130278 | 127.0 | 12.8 | 10.7 | 16.1 |
| | | | | | 129.0 | 13.7 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.8 | 7.6 | 11.5 |
| | | | | | 63.0 | 8.8 | 5.9 | 8.8 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0022 | 21.12 | 0.00 | 273 | 227.0 | 35.3 | 51.2 | 76.7 |
| | | | | | 223.0 | 21.3 | 50.5 | 75.7 |
| | | | | | 190.0 | 16.4 | 34.9 | 52.3 |
| | | | | | 188.0 | | 27.5 | 41.2 |



# Library Search Results - NonTarget Hits with Details

Agilent Technologies

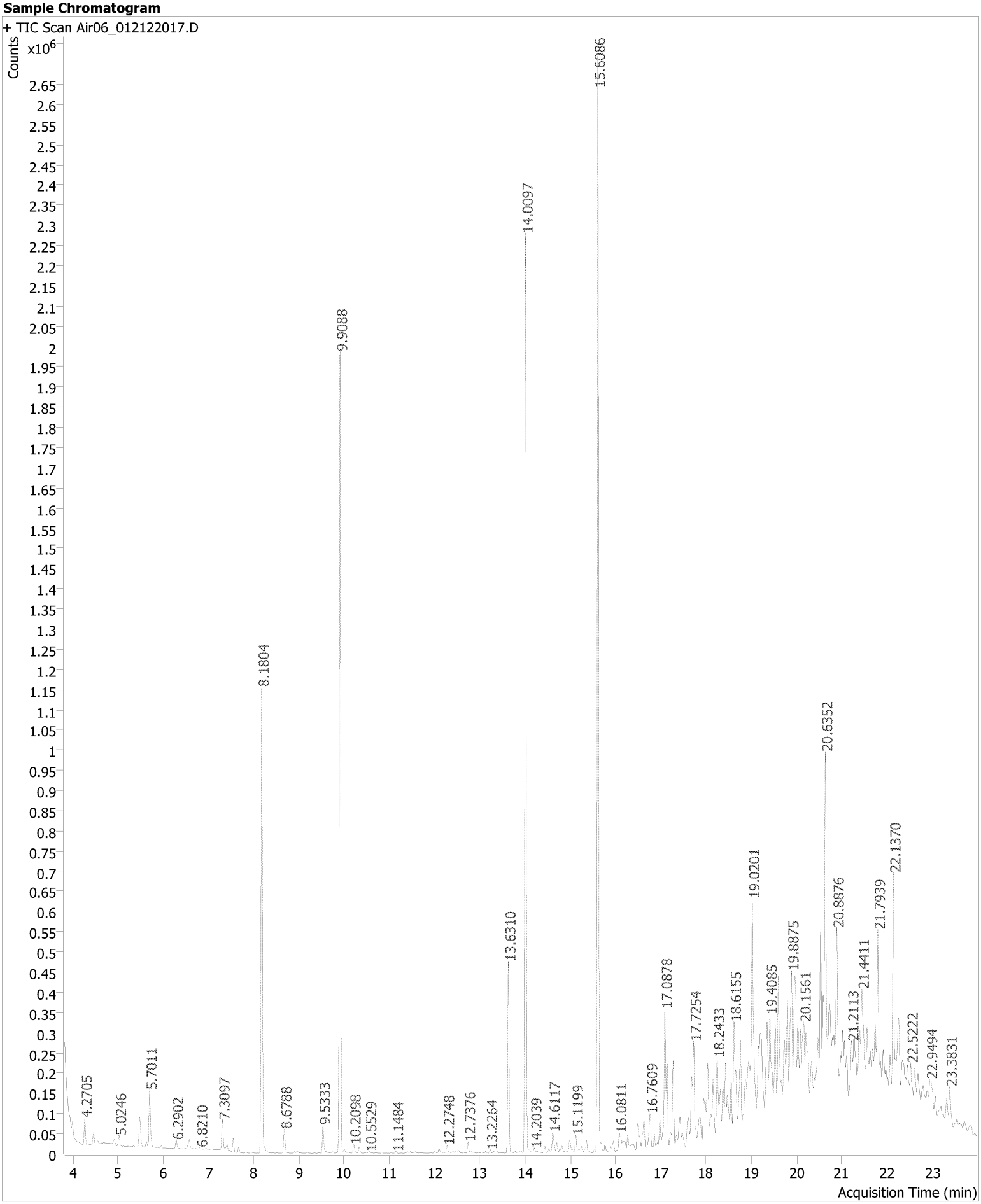
| | | | |
|---|---|---|---|
| **Batch Path** | D:\MassHunter\GCMS\1\data\2022\220121 | | |
| **Analysis File Name** | $2022 Jan 22 0714 TO15_220105.m$.uaf | | |
| **Analyst Name** | 003AIRMS06 | **Analysis Time** | 1/26/2022 11:30:36 AM |
| **File Name** | Air06_012122017.D | **Path Name** | D:\MassHunter\GCMS\1\data\2022\220121 |
| **Sample Name** | 456991-008,282262,2x,PDF:1,C10582 | **Type** | Sample |
| **Acq. Method File** | TO15_Acq_013120_1 | **Acq. Method Path** | D:\MassHunter\GCMS\1\methods\ |
| **Acq. Date-Time** | 1/22/2022 7:55:53 AM | **Acq. Operator** | DJL/LJB/ZNZ |
| **Instrument Name** | Air-MS-06 | **Dil.** | 1 |

| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9954 | Dichlorodifluoromethane | 75-71-8 | CCl2F2 | 103224.1 | 97.1 | 0.4145 |
| 4.2705 | Cyclobutanol | 2919-23-5 | C4H8O | 140898.5 | 88.9 | 0.5658 |
| 4.4614 | 1-Propene, 2-methyl- | 115-11-7 | C4H8 | 60821.3 | 98.1 | 0.2442 |
| 4.5585 | Butane | 106-97-8 | C4H10 | 16361.8 | 84.2 | 0.06571 |
| 4.9178 | Ethyl Chloride | 75-00-3 | C2H5Cl | 26647.6 | 96.5 | 0.107 |
| 5.0246 | Dimethyl ether | 115-10-6 | C2H6O | 54118.2 | 88.1 | 0.2173 |
| 5.4842 | Acetone | 67-64-1 | C3H6O | 181666.8 | 98.2 | 0.7295 |
| 5.6331 | Trichloromonofluoromethane | 75-69-4 | CCl3F | 31074.5 | 96.6 | 0.1248 |
| 5.7011 | Isopropyl Alcohol | 67-63-0 | C3H8O | 330451.9 | 97.7 | 1.327 |
| 5.9600 | Pentane | 109-66-0 | C5H12 | 12333.3 | 92.7 | 0.04953 |
| 6.2902 | Methylene chloride | 75-09-2 | CH2Cl2 | 51362.1 | 78.2 | 0.2063 |
| 6.5750 | Carbon disulfide | 75-15-0 | CS2 | 66624.7 | 89.9 | 0.2675 |
| 6.8210 | Propanal, 2-methyl- | 78-84-2 | C4H8O | 9497.1 | 90.9 | 0.03814 |
| 7.3097 | Silanol, trimethyl- | 1066-40-6 | C3H10OSi | 166074.8 | 98.1 | 0.6669 |
| 7.4068 | 2,3-Butanedione | 431-03-8 | C4H6O2 | 33117.2 | 80.9 | 0.133 |
| 7.5492 | Butanal | 123-72-8 | C4H8O | 55087.9 | 99.2 | 0.2212 |
| 7.6690 | 2-Butanone | 78-93-3 | C4H8O | 29206.0 | 94.7 | 0.1173 |
| 8.1804 | Methane, bromochloro- | 74-97-5 | CH2BrCl | 2490181.3 | 98.8 | 10 |
| 8.2451 | Isobutyl acetate | 110-19-0 | C6H12O2 | 44958.5 | 77.8 | 0.1805 |
| 8.6788 | Tetrahydrofuran | 109-99-9 | C4H8O | 138856.5 | 98.9 | 0.5576 |
| 8.9022 | 2-Butenal, (Z)- | 15798-64-8 | C4H6O | 8645.0 | 95.9 | 0.03472 |
| 8.9604 | Ethane, 1,2-dichloro- | 107-06-2 | C2H4Cl2 | 12567.7 | 70.6 | 0.05047 |
| 9.5333 | 1-Butanol | 71-36-3 | C4H10O | 151549.4 | 98.4 | 0.373 |
| 9.6078 | Benzene | 71-43-2 | C6H6 | 8965.7 | 79.7 | 0.02207 |
| 9.7437 | Carbon Tetrachloride | 56-23-5 | CCl4 | 10044.5 | 95.7 | 0.02473 |
| 9.9088 | Benzene, 1,4-difluoro- | 540-36-3 | C6H4F2 | 4062453.9 | 99.4 | 10 |
| 10.0059 | 2-Pentanone | 107-87-9 | C5H10O | 24365.5 | 86.7 | 0.05998 |
| 10.2098 | Pentanal | 110-62-3 | C5H10O | 47667.7 | 97.2 | 0.1173 |
| 10.3328 | Benzene, 1,4-difluoro- | 540-36-3 | C6H4F2 | 33219.8 | 96.9 | 0.08177 |
| 10.5529 | Trichloroethylene | 79-01-6 | C2HCl3 | 10194.3 | 88.7 | 0.02509 |
| 10.8345 | Heptane | 142-82-5 | C7H16 | 5021.3 | 91.0 | 0.01236 |
| 11.1484 | 1-Pentene, 2,4,4-trimethyl- | 107-39-1 | C8H16 | 8430.1 | 94.0 | 0.02075 |
| 11.4041 | Methyl Isobutyl Ketone | 108-10-1 | C6H12O | 9199.6 | 86.3 | 0.02265 |
| 11.4624 | Cyclohexane, methyl- | 108-87-2 | C7H14 | 8154.6 | 91.0 | 0.02007 |
| 12.0062 | Pentane, 3-ethyl-2,2-dimethyl- | 16747-32-3 | C9H20 | 6463.0 | 83.1 | 0.01389 |
| 12.0968 | 1-Pentanol | 71-41-0 | C5H12O | 28162.7 | 93.7 | 0.06052 |
| 12.2748 | Toluene | 108-88-3 | C7H8 | 45466.5 | 95.9 | 0.0977 |
| 12.4010 | Cyclopentanone | 120-92-3 | C5H8O | 8666.4 | 83.5 | 0.01862 |
| 12.4561 | Hexane, 2,5-dimethyl- | 592-13-2 | C8H18 | 9043.4 | 77.1 | 0.01943 |
| 12.5337 | Methyl Isobutyl Ketone | 108-10-1 | C6H12O | 13961.9 | 84.2 | 0.03 |
| 12.7376 | Hexanal | 66-25-1 | C6H12O | 58609.5 | 97.6 | 0.1259 |
| 12.8186 | Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | C8H16 | 8618.3 | 84.8 | 0.01852 |
| 13.1293 | Acetic acid, butyl ester | 123-86-4 | C6H12O2 | 9129.3 | 77.5 | 0.01962 |
| 13.2264 | Octane | 111-65-9 | C8H18 | 15572.7 | 92.8 | 0.03346 |
| 13.3041 | Cyclohexane, 1,4-dimethyl- | 589-90-2 | C8H16 | 8939.9 | 88.6 | 0.01921 |
| 13.3753 | Tetrachloroethylene | 127-18-4 | C2Cl4 | 9069.6 | 87.4 | 0.01949 |
| 13.6310 | Cyclotrisiloxane, hexamethyl- | 541-05-9 | C6H18O3Si3 | 967919.1 | 98.5 | 2.08 |
| 13.8478 | Benzene, 1-chloro-3-fluoro- | 625-98-9 | C6H4ClF | 6174.9 | 91.7 | 0.01327 |
| 13.9061 | 3-Bromooctane | 999-64-4 | C8H17Br | 9589.9 | 83.5 | 0.02061 |
| 14.0097 | Chlorobenzene-d5 | 3114-55-4 | C6D5Cl | 4653700.5 | 95.7 | 10 |
| 14.0809 | Cyclohexane, ethyl- | 1678-91-7 | C8H16 | 21451.8 | 76.8 | 0.0461 |
| 14.2039 | Cyclohexane, 1,1,3-trimethyl- | 3073-66-3 | C9H18 | 24833.2 | 91.0 | 0.05336 |
| 14.4369 | Ethylbenzene | 100-41-4 | C8H10 | 31388.2 | 87.9 | 0.06745 |
| 14.5275 | Cyclohexane, 1,2,4-trimethyl- | 2234-75-5 | C9H18 | 26294.3 | 90.3 | 0.0565 |
| 14.6117 | Benzene, 1,3-dimethyl- | 108-38-3 | C8H10 | 139738.1 | 98.2 | 0.3003 |
| 14.6991 | 3-Heptanone | 106-35-4 | C7H14O | 31084.3 | 90.6 | 0.06679 |
| 14.7703 | 2-Heptanone | 110-43-0 | C7H14O | 11224.4 | 86.4 | 0.02412 |
| 14.8156 | 1-Heptene | 592-76-7 | C7H14 | 24584.7 | 84.3 | 0.05283 |
| 14.9807 | Heptanal | 111-71-7 | C7H14O | 89490.9 | 83.0 | 0.1923 |

| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.1199 | o-Xylene | 95-47-6 | C8H10 | 83214.7 | 96.3 | 0.1788 |
| 15.1813 | Cyclooctane, methyl- | 1502-38-1 | C9H18 | 11144.6 | 85.5 | 0.02395 |
| 15.2526 | 1-Ethyl-4-methylcyclohexane | 3728-56-1 | C9H18 | 40839.8 | 84.9 | 0.08776 |
| 15.3594 | Nonane | 111-84-2 | C9H20 | 69733.8 | 96.1 | 0.1498 |
| 15.5309 | Cyclooctane, 1,2-dimethyl- | 13151-94-5 | C10H20 | 8431.3 | 85.9 | 0.01812 |
| 15.6086 | Benzene, 1-bromo-3-fluoro- | 1073-06-9 | C6H4BrF | 5478913.2 | 98.1 | 11.77 |
| 15.6766 | 2-Hexene, 3,4,4-trimethyl- | 53941-19-8 | C9H18 | 42659.2 | 76.2 | 0.09167 |
| 15.8967 | Pentane, 2,2,3,3-tetramethyl- | 7154-79-2 | C9H20 | 23611.8 | 87.9 | 0.05074 |
| 15.9452 | 1H-Indene, octahydro-, cis- | 4551-51-3 | C9H16 | 54538.4 | 89.5 | 0.1172 |
| 16.0811 | Nonane, 3-methyl- | 5911-04-6 | C10H22 | 137592.3 | 91.6 | 0.2957 |
| 16.1588 | Benzaldehyde | 100-52-7 | C7H6O | 81199.7 | 82.6 | 0.1745 |
| 16.2656 | Heptane, 3-ethyl-2-methyl- | 14676-29-0 | C10H22 | 52797.8 | 94.9 | 0.1135 |
| 16.3563 | Benzene, propyl- | 103-65-1 | C9H12 | 6296.7 | 89.7 | 0.01353 |
| 16.4825 | Benzene, 1-ethyl-2-methyl- | 611-14-3 | C9H12 | 92553.9 | 81.2 | 0.1989 |
| 16.5246 | Benzene, 1-ethyl-4-methyl- | 622-96-8 | C9H12 | 26083.2 | 82.1 | 0.05605 |
| 16.6249 | Benzene, 1,2,3-trimethyl- | 526-73-8 | C9H12 | 112757.6 | 90.2 | 0.2423 |
| 16.7609 | Cyclohexane, 1,1,2,3-tetramethyl- | 6783-92-2 | C10H20 | 166465.0 | 92.1 | 0.3577 |
| 16.8547 | Benzene, 1-ethyl-2-methyl- | 611-14-3 | C9H12 | 32930.8 | 93.3 | 0.07076 |
| 16.9777 | Dodecanal | 112-54-9 | C12H24O | 73087.9 | 88.7 | 0.1571 |
| 17.0878 | Cyclotetrasiloxane, octamethyl- | 556-67-2 | C8H24O4Si4 | 660301.0 | 94.7 | 1.419 |
| 17.1331 | Benzene, 1,2,3-trimethyl- | 526-73-8 | C9H12 | 310446.8 | 83.1 | 0.6671 |
| 17.2140 | Cyclopentane, 1-methyl-3-(2-methylpropyl)- | 29053-04-1 | C10H20 | 20960.5 | 93.8 | 0.04504 |
| 17.2722 | Decane | 124-18-5 | C10H22 | 317442.9 | 95.4 | 0.6821 |
| 17.3435 | trans-2-Dodecen-1-ol | 69064-37-5 | C12H24O | 19093.9 | 81.7 | 0.04103 |
| 17.4762 | Benzene, (1-methylpropyl)- | 135-98-8 | C10H14 | 34151.9 | 79.0 | 0.07339 |
| 17.6056 | (+)-cis-Verbenol, trimethylacetate | 1000462-96-9 | C15H24O2 | 126930.0 | 75.5 | 0.2728 |
| 17.6833 | Benzene, 1,2,3-trimethyl- | 526-73-8 | C9H12 | 239454.9 | 88.6 | 0.5145 |
| 17.7254 | Nonane, 2,6-dimethyl- | 17302-28-2 | C11H24 | 462501.4 | 95.8 | 0.9938 |
| 17.8613 | Pentanoic acid, 10-undecenyl ester | 1000159-93-4 | C16H30O2 | 184956.6 | 79.0 | 0.3974 |
| 17.9487 | Isobutyl nonyl carbonate | 959311-27-4 | C14H28O3 | 117553.5 | 76.5 | 0.2526 |
| 17.9778 | 5,7-Dimethyloctahydrocoumarin | 1000109-81-5 | C11H18O2 | 113745.9 | 72.0 | 0.2444 |
| 18.0329 | Oxalic acid, cyclohexyl nonyl ester | 1000309-31-1 | C17H30O4 | 355436.3 | 80.2 | 0.7638 |
| 18.1041 | Bicyclo[3.1.1]heptan-3-ol, 6,6-dimethyl-2-methylene-, [1S-(1.alpha.,3.alpha.,5.alpha.)]- | 547-61-5 | C10H16O | 48684.4 | 73.5 | 0.1046 |
| 18.1559 | Benzene, 1-methyl-2-propyl- | 1074-17-5 | C10H14 | 223832.9 | 80.4 | 0.481 |
| 18.2433 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 378475.9 | 89.3 | 0.8133 |
| 18.3145 | Decane, 5-methyl- | 13151-35-4 | C11H24 | 180178.1 | 78.4 | 0.3872 |
| 18.3727 | Decane, 4-methyl- | 2847-72-5 | C11H24 | 196427.1 | 89.5 | 0.4221 |
| 18.4277 | 1-Octanol, 2-butyl- | 3913-02-8 | C12H26O | 282637.4 | 87.1 | 0.6073 |
| 18.4731 | Benzene, 1-methyl-4-propyl- | 1074-55-1 | C10H14 | 152183.1 | 93.6 | 0.327 |
| 18.5540 | Decane, 3-methyl- | 13151-34-3 | C11H24 | 168000.5 | 91.0 | 0.361 |
| 18.6155 | Cyclohexane, 1-methyl-3-(1-methylethenyl)-, cis- | 24399-15-3 | C10H18 | 500661.0 | 80.1 | 1.076 |
| 18.6543 | Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | C10H14 | 224215.9 | 91.7 | 0.4818 |
| 18.7579 | p-Cymene | 99-87-6 | C10H14 | 490864.3 | 83.3 | 1.055 |
| 18.8712 | Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1.alpha.,2.beta.,5.alpha.)- | 15358-88-0 | C10H16O | 308726.1 | 71.6 | 0.6634 |
| 18.9424 | Sulfurous acid, cyclohexylmethyl undecyl ester | 1000309-21-9 | C18H36O3S | 510333.1 | 87.1 | 1.097 |
| 19.0201 | Undecane | 1120-21-4 | C11H24 | 1725973.5 | 95.1 | 3.709 |
| 19.1592 | (S,E)-2,5-Dimethyl-4-vinylhexa-2,5-dien-1-yl acetate | 20384-05-8 | C12H18O2 | 378302.3 | 78.3 | 0.8129 |
| 19.3470 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 692439.3 | 79.8 | 1.488 |
| 19.4085 | Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3 | C10H14 | 841188.2 | 85.9 | 1.808 |
| 19.5250 | Decane, 3,7-dimethyl- | 17312-54-8 | C12H26 | 557977.5 | 90.1 | 1.199 |
| 19.5962 | Naphthalene, decahydro-2-methyl- | 2958-76-1 | C11H20 | 910797.9 | 94.2 | 1.957 |
| 19.6577 | Benzene, 1,3-diethyl-5-methyl- | 2050-24-0 | C11H16 | 141530.0 | 81.7 | 0.3041 |
| 19.7289 | Benzene, 1,3-diethyl-5-methyl- | 2050-24-0 | C11H16 | 537446.4 | 83.6 | 1.155 |
| 19.7969 | Cyclohexane, pentyl- | 4292-92-6 | C11H22 | 738549.6 | 77.5 | 1.587 |
| 19.8875 | Naphthalene, decahydro-2-methyl- | 2958-76-1 | C11H20 | 1136283.0 | 93.6 | 2.442 |
| 19.9652 | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | C10H14 | 1190215.5 | 83.0 | 2.558 |
| 20.0267 | Benzene, 1-methyl-4-(1-methylpropyl)- | 1595-16-0 | C11H16 | 543582.6 | 70.6 | 1.168 |
| 20.0817 | Undecane, 2-methyl- | 7045-71-8 | C12H26 | 409334.5 | 90.6 | 0.8796 |
| 20.1561 | Benzene, (1,2-dimethylpropyl)- | 4481-30-5 | C11H16 | 785834.2 | 82.4 | 1.689 |
| 20.2047 | Undecane, 3-methyl- | 1002-43-3 | C12H26 | 785309.3 | 87.2 | 1.687 |
| 20.3309 | Cyclohexane, 1-methyl-4-(1-methylbutyl)- | 54411-00-6 | C12H24 | 368853.3 | 85.0 | 0.7926 |
| 20.4701 | Anisole, o-(1-ethylvinyl)- | 18272-74-7 | C11H14O | 539284.6 | 77.0 | 1.159 |
| 20.6352 | Dodecane | 112-40-3 | C12H26 | 2208864.9 | 88.5 | 4.746 |
| 20.8876 | Undecane, 2,6-dimethyl- | 17301-23-4 | C13H28 | 1261068.4 | 87.6 | 2.71 |
| 21.2113 | Naphth[1,2-b]oxirene, decahydro-1a,7-dimethyl- | 55976-08-4 | C12H20O | 433774.1 | 79.4 | 0.9321 |
| 21.3828 | Cyclohexane, 2-butyl-1,1,3-trimethyl- | 54676-39-0 | C13H26 | 502890.7 | 90.0 | 1.081 |
| 21.4411 | Hexanol-1, 6-cyclohexyl- | 4354-58-9 | C12H24O | 1163291.2 | 76.5 | 2.5 |
| 21.5576 | 1-Decanol, 2-ethyl- | 21078-65-9 | C12H26O | 500315.1 | 70.7 | 1.075 |

| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.6806 | Benzene, (1,1,2-trimethylpropyl)- | 26356-11-6 | C12H18 | 278650.5 | 72.2 | 0.5988 |
| 21.7356 | Tetradecane, 6,9-dimethyl- | 55045-13-1 | C16H34 | 434496.2 | 70.4 | 0.9337 |
| 21.7939 | Tridecane, 7-methyl- | 26730-14-3 | C14H30 | 937674.5 | 76.9 | 2.015 |
| 22.0658 | 2-Benzofuranmethanol, 2,4,5,6,7,7a-hexahydro-4,4,7a-trimethyl-, cis- | 77384-15-7 | C12H20O2 | 189842.2 | 72.3 | 0.4079 |
| 22.1370 | Tridecane | 629-50-5 | C13H28 | 1207315.6 | 89.5 | 2.594 |
| 22.2535 | Naphthalene, 2-methyl- | 91-57-6 | C11H10 | 637018.0 | 82.2 | 1.369 |
| 22.5222 | Naphthalene, 2-methyl- | 91-57-6 | C11H10 | 94635.2 | 87.4 | 0.2034 |
| 22.6095 | Naphthalene, 1,2,3,4-tetrahydro-1,5-dimethyl- | 21564-91-0 | C12H16 | 99286.3 | 80.7 | 0.2133 |
| 22.9494 | 1,12-Tridecadiene | 21964-48-7 | C13H24 | 279145.2 | 70.8 | 0.5998 |
| 23.3184 | Cyclododecanone, 2-methylene- | 3045-76-9 | C13H22O | 108387.9 | 79.1 | 0.2329 |
| 23.3831 | 1,3-Cyclododecadiene, (E,Z)- | 1129-92-6 | C12H20 | 253441.3 | 83.2 | 0.5446 |
| 23.5449 | Cyclohexane, 1-(cyclohexylmethyl)-2-ethyl-, cis- | 54934-93-9 | C15H28 | 23958.2 | 73.4 | 0.05148 |
| 23.8298 | 9-Octadecyne | 35365-59-4 | C18H34 | 88024.4 | 73.1 | 0.1891 |

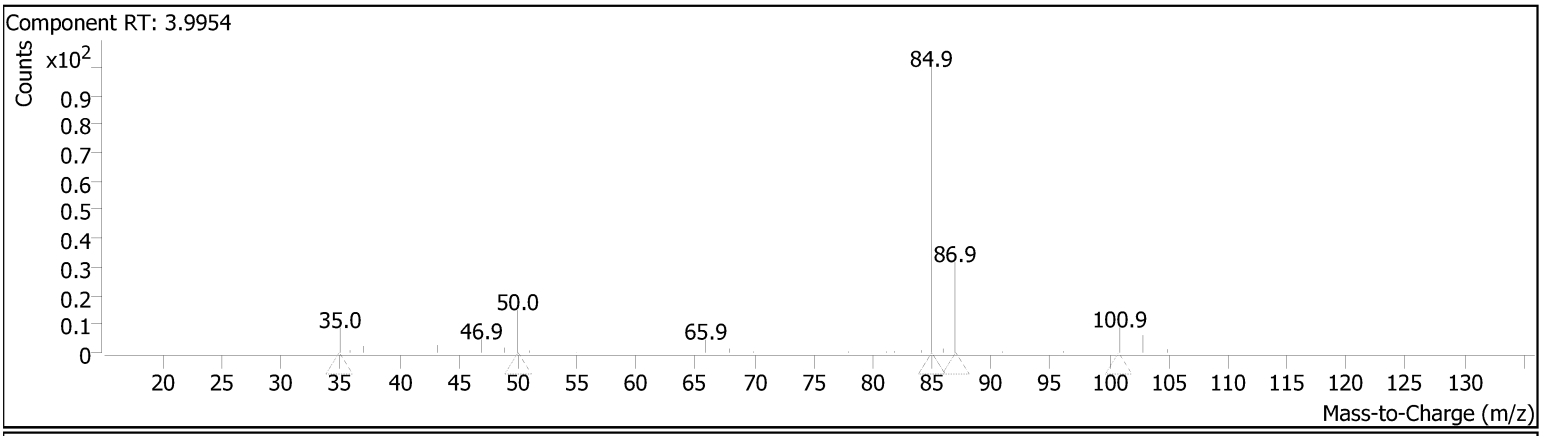
**Sample Chromatogram**

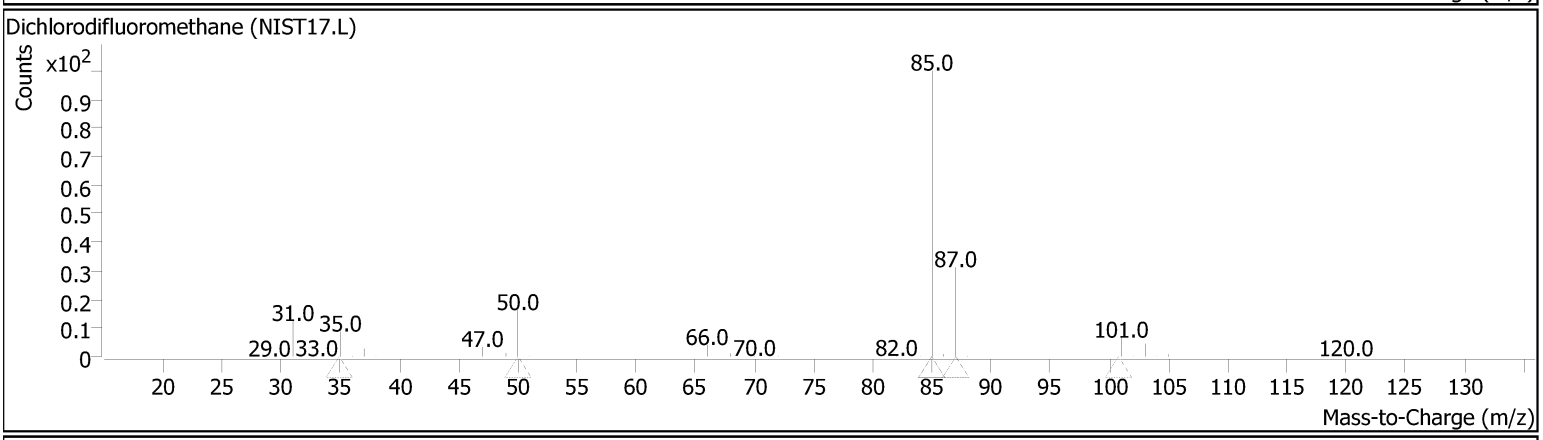


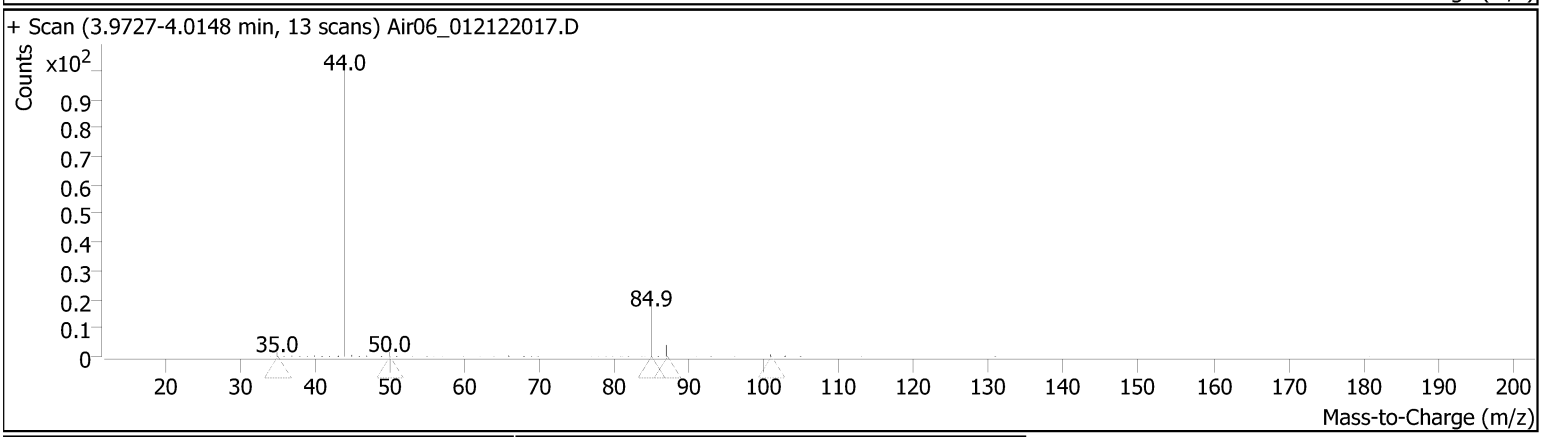
# Library Search Results - NonTarget Hits with Details

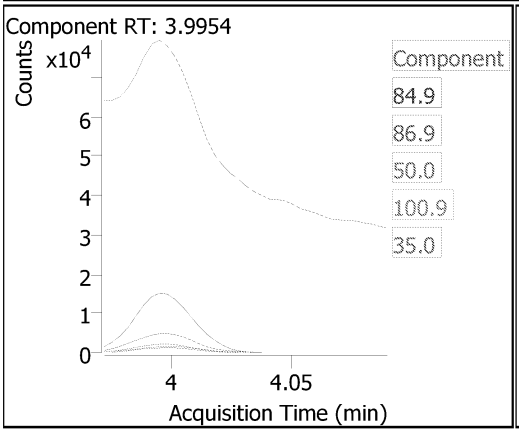
Agilent Technologies

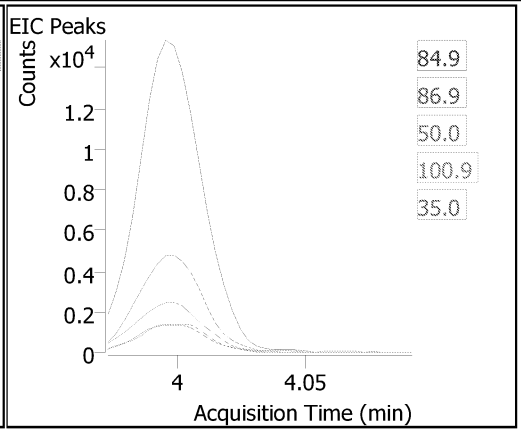
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9954 | Dichlorodifluoromethane | 103224.1 | 97.1 | 75-71-8 | CCl2F2 | 0.4145 |

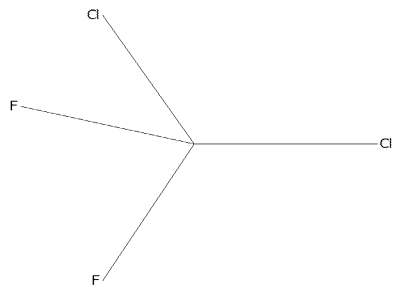


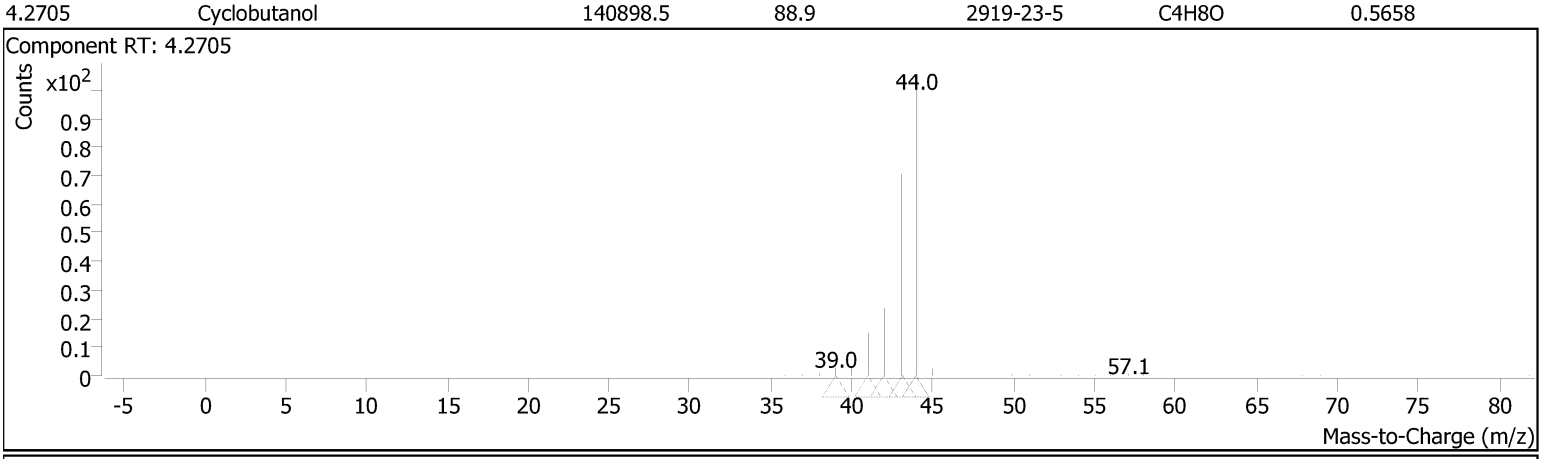



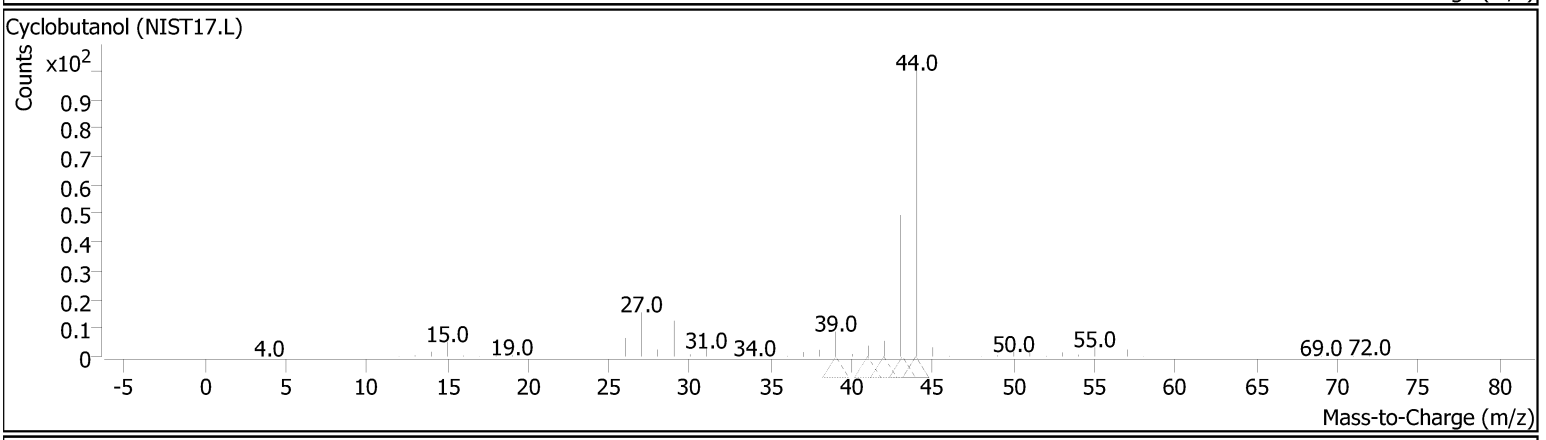



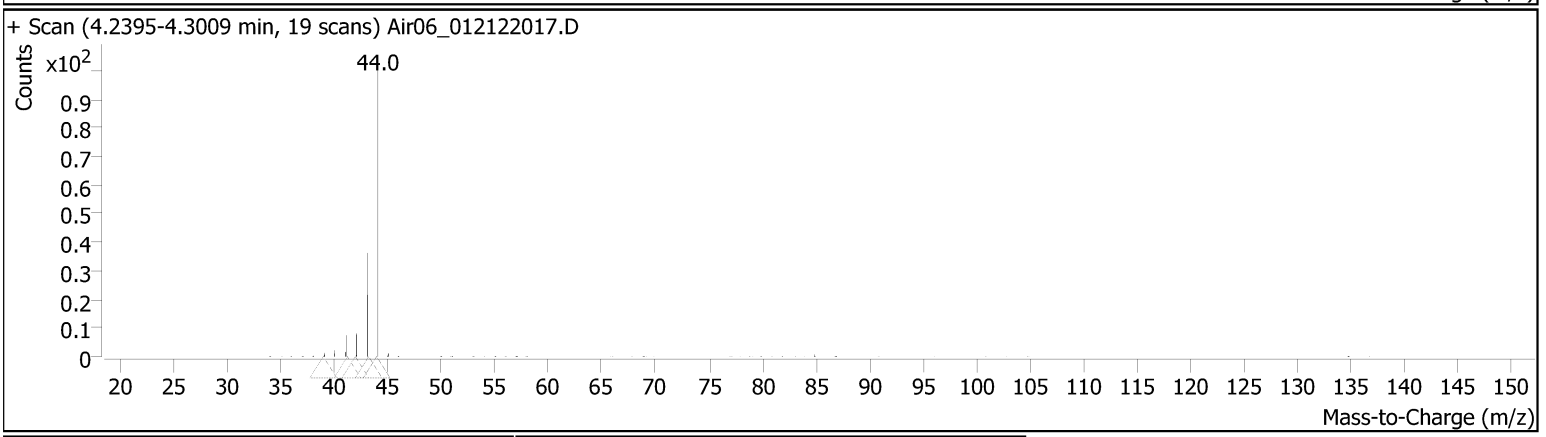



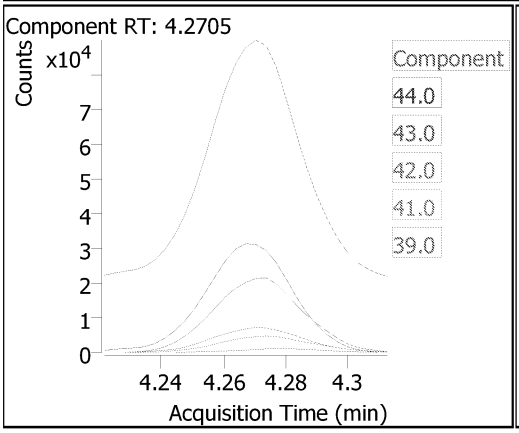



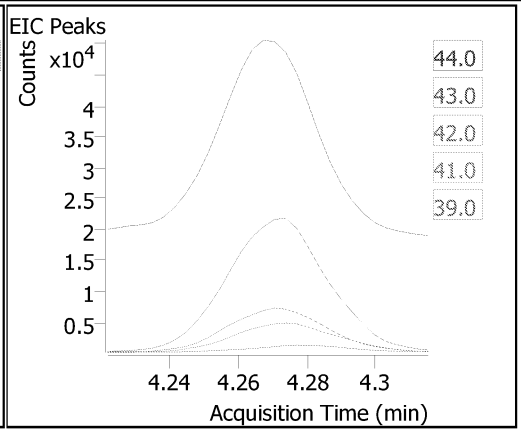
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.2705 | Cyclobutanol | 140898.5 | 88.9 | 2919-23-5 | C4H8O | 0.5658 |

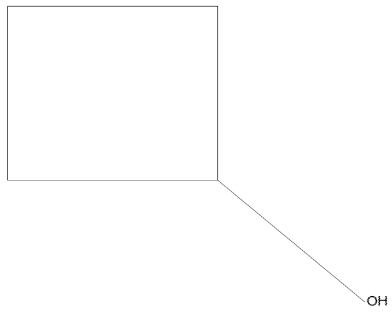


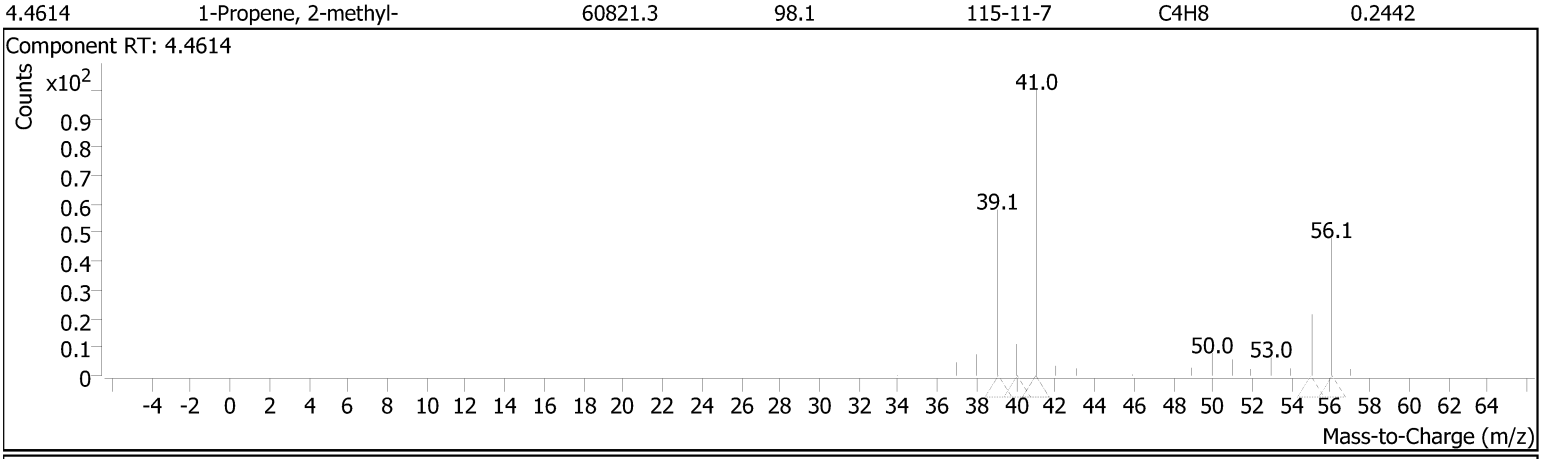



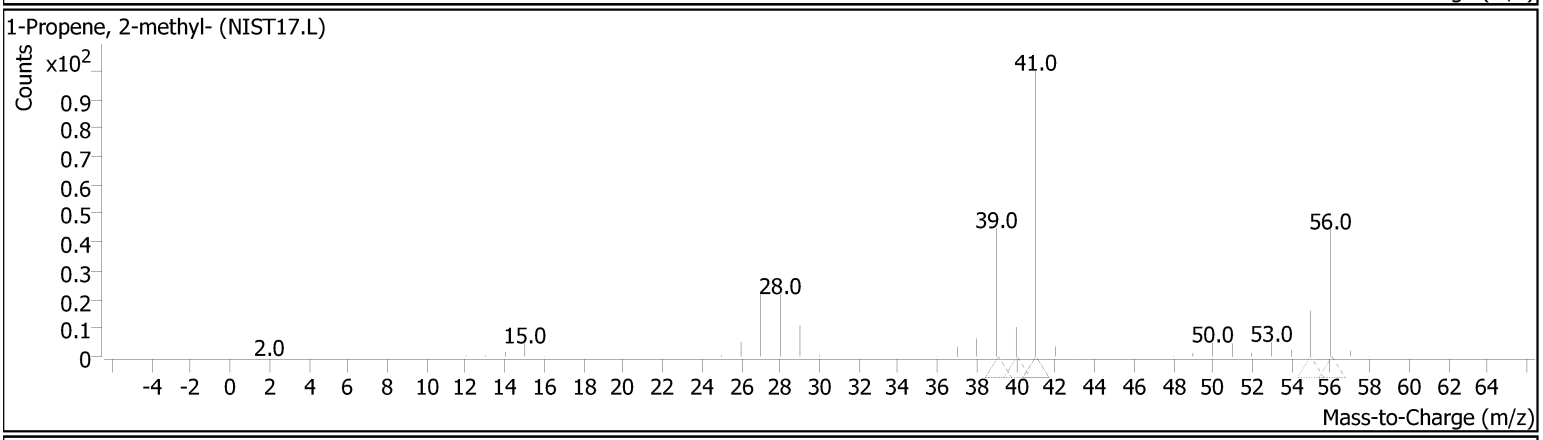



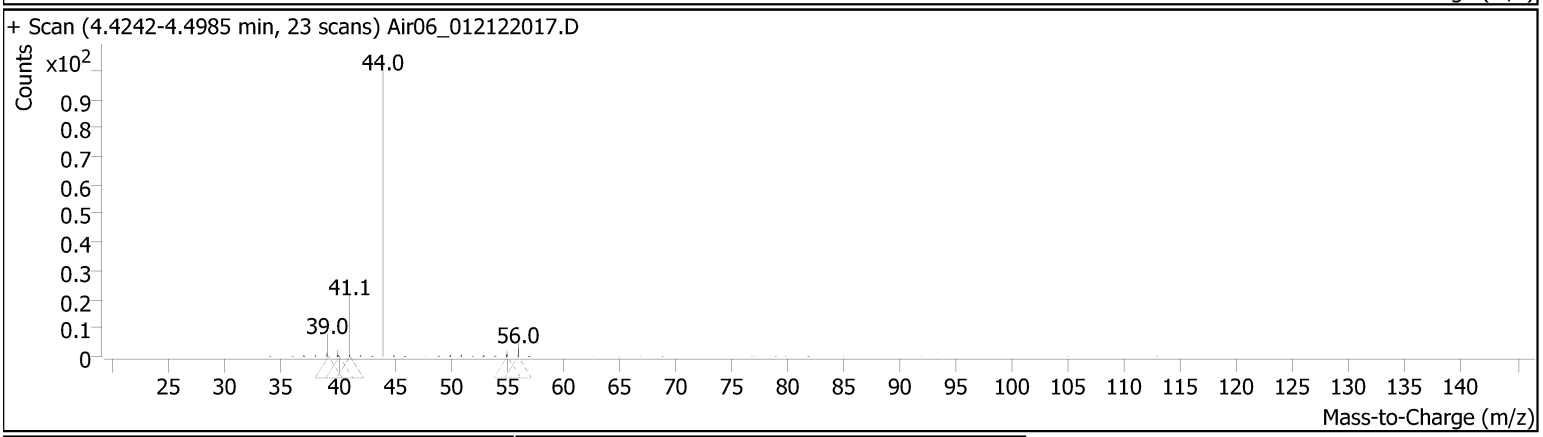



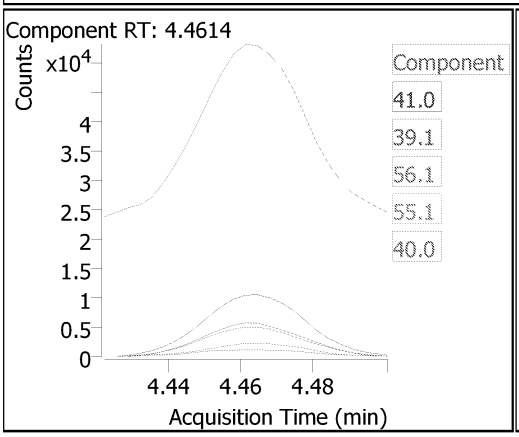



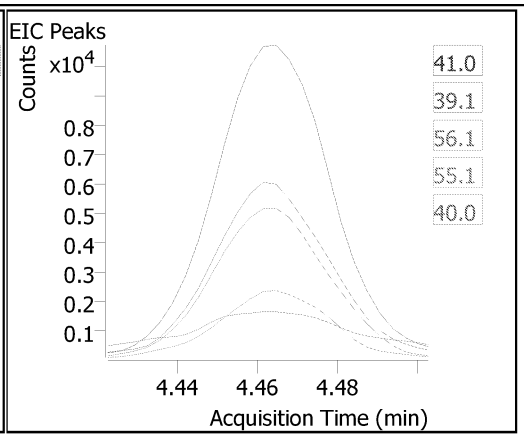
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.4614 | 1-Propene, 2-methyl- | 60821.3 | 98.1 | 115-11-7 | C4H8 | 0.2442 |

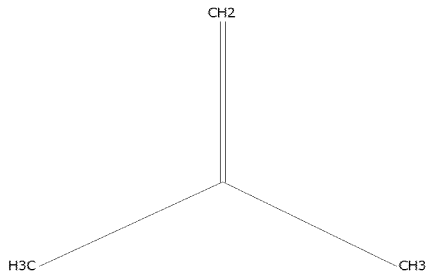


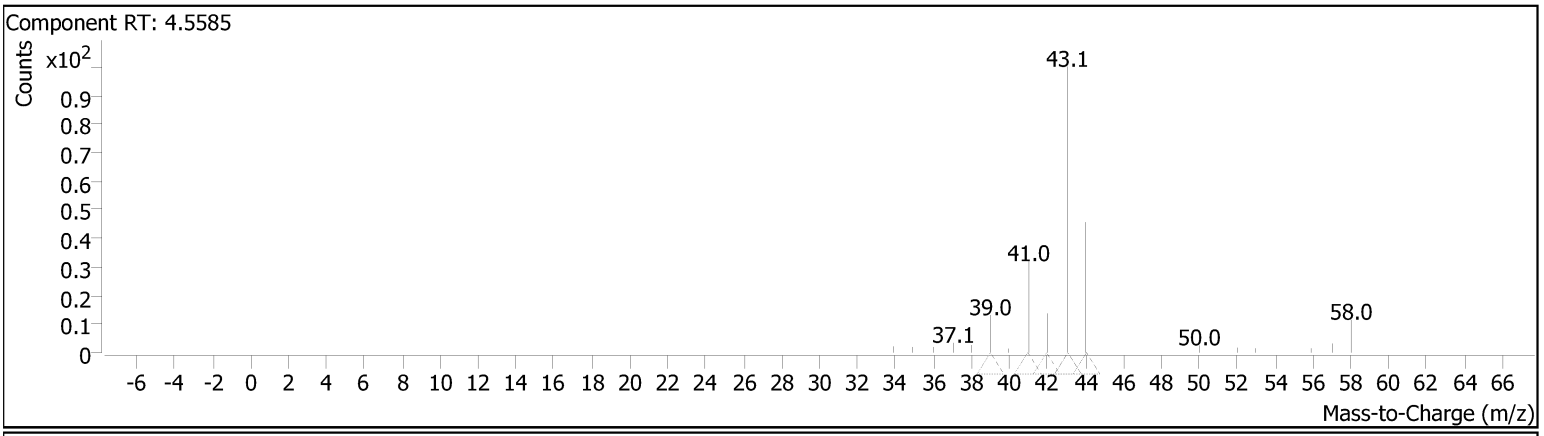



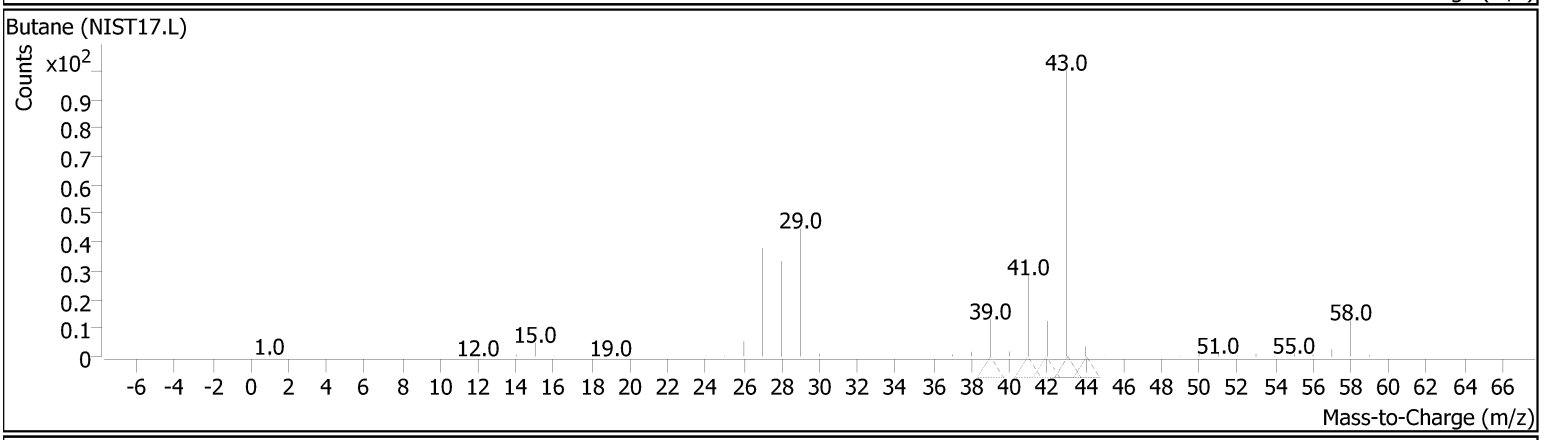



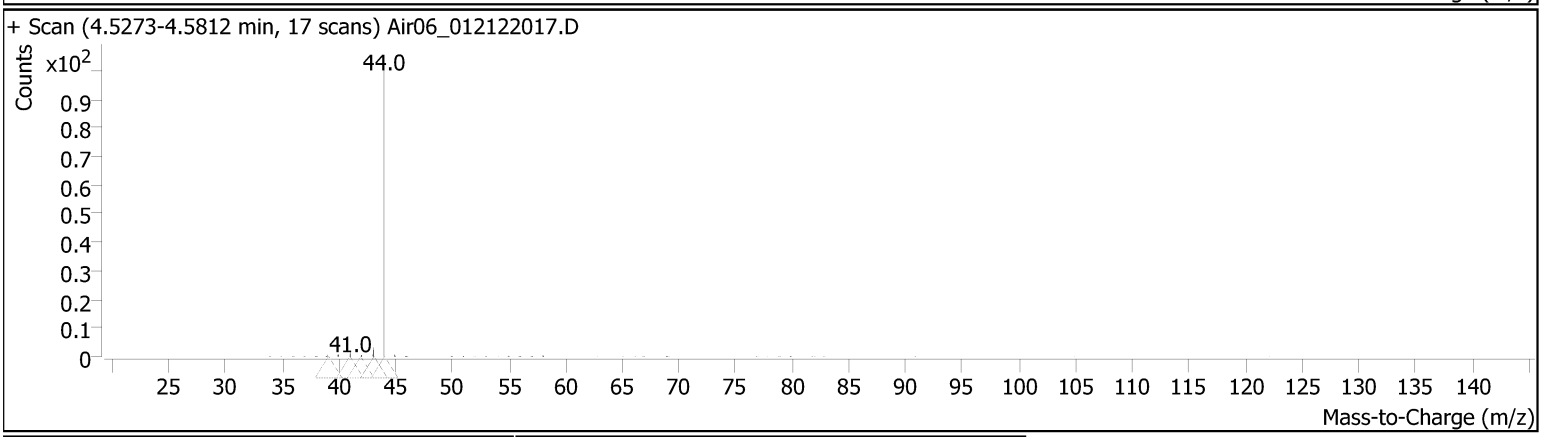



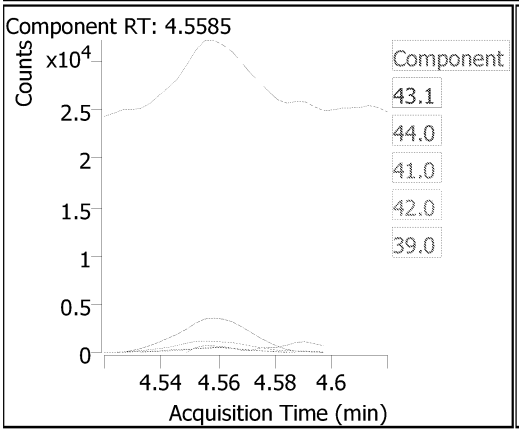



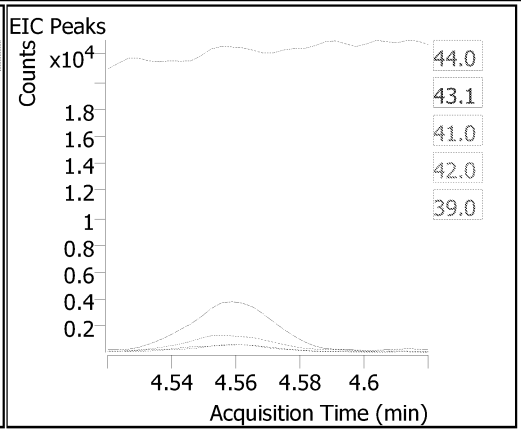
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.5585 | Butane | 16361.8 | 84.2 | 106-97-8 | C4H10 | 0.06571 |



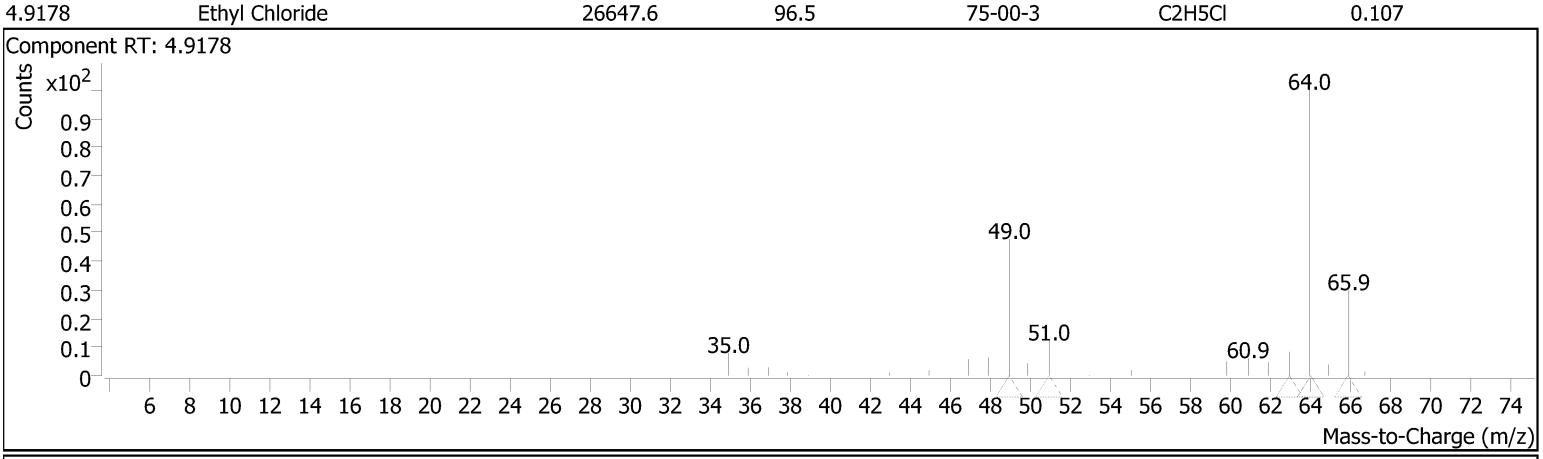



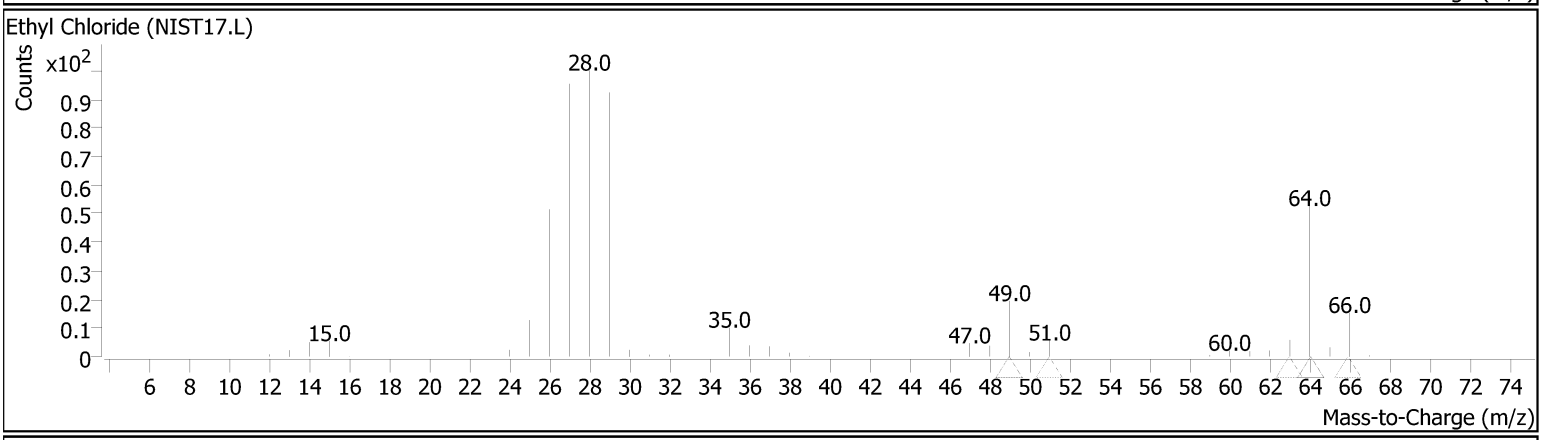



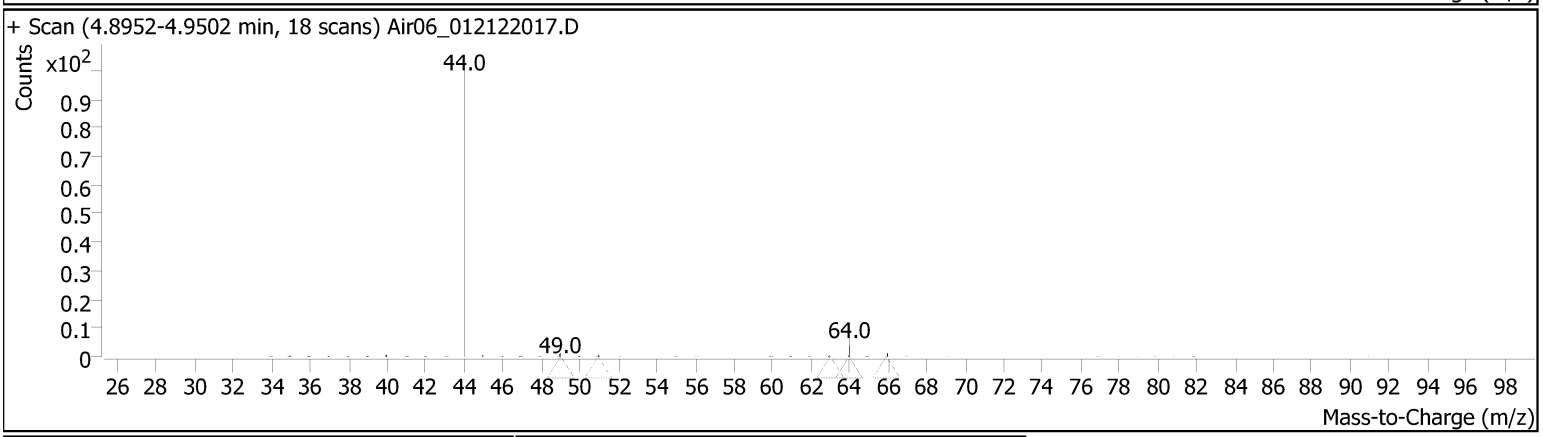



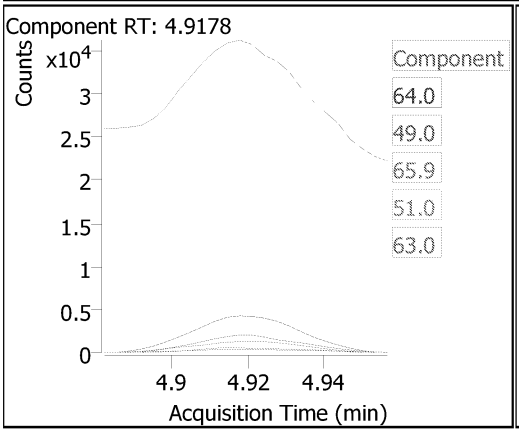


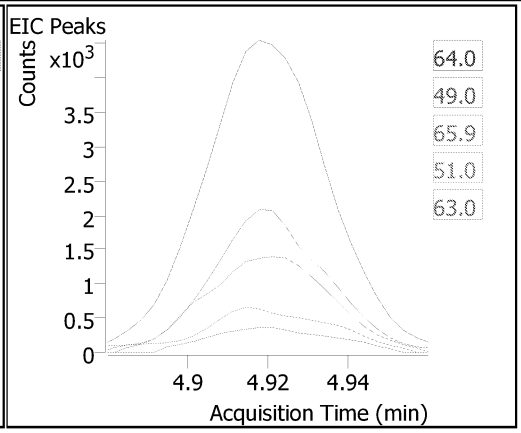

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.9178 | Ethyl Chloride | 26647.6 | 96.5 | 75-00-3 | C2H5Cl | 0.107 |



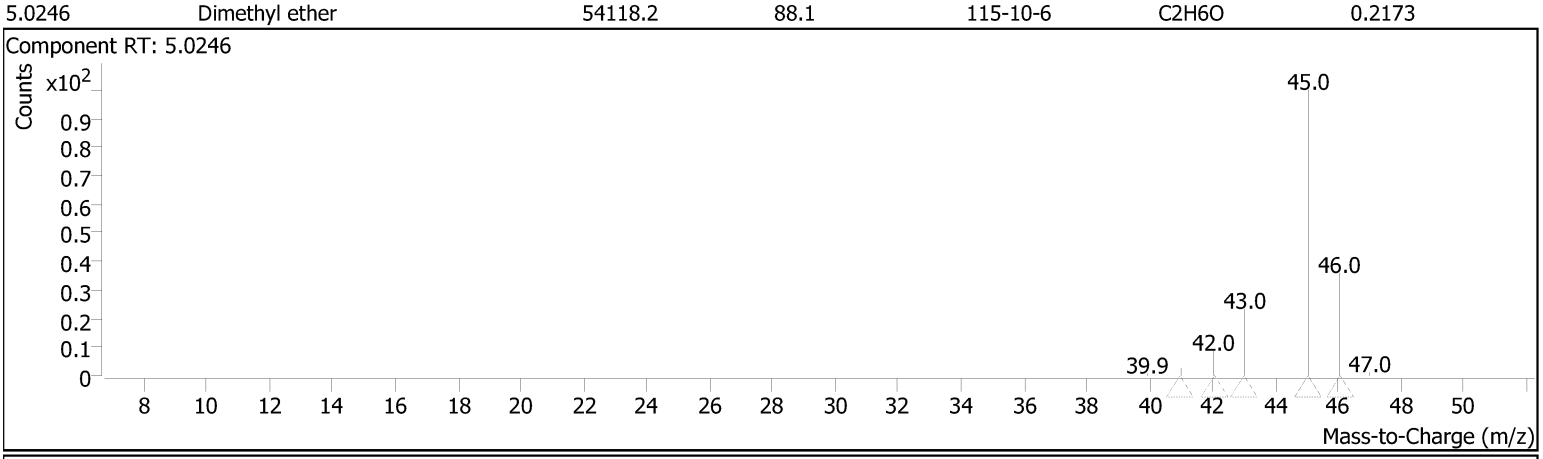



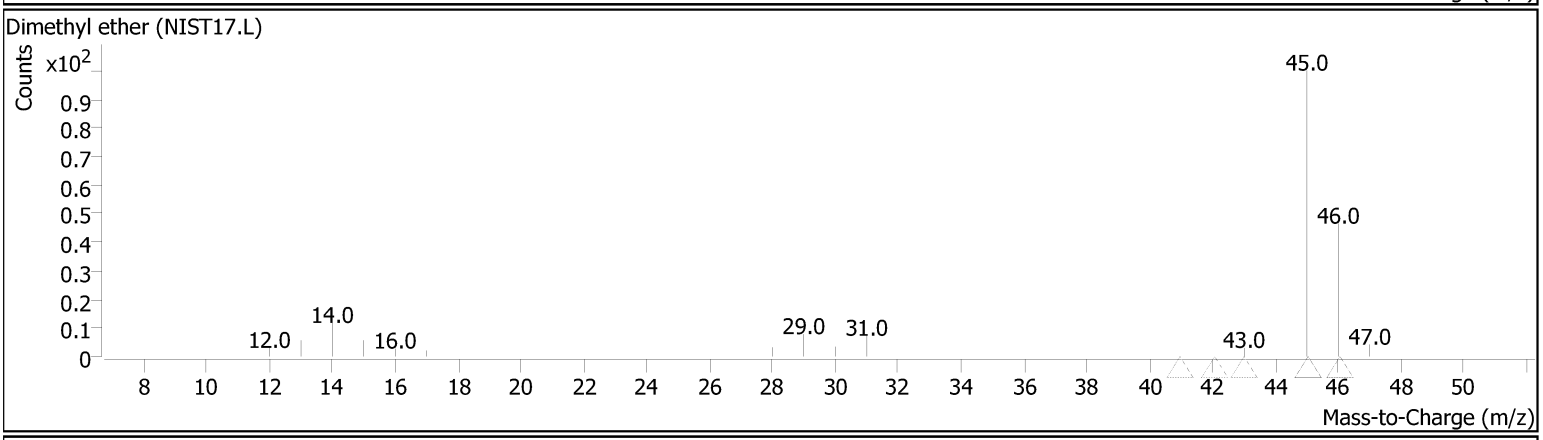



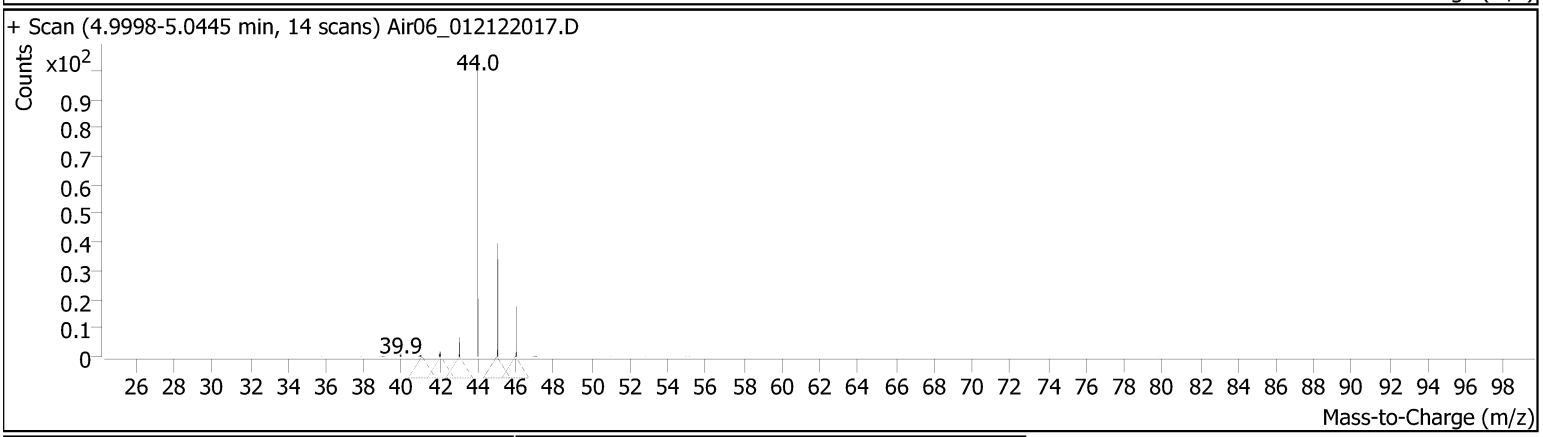



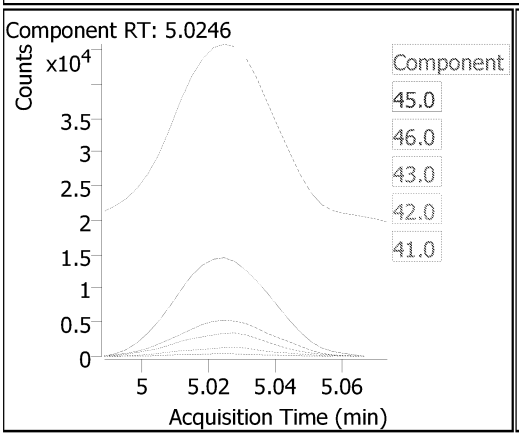


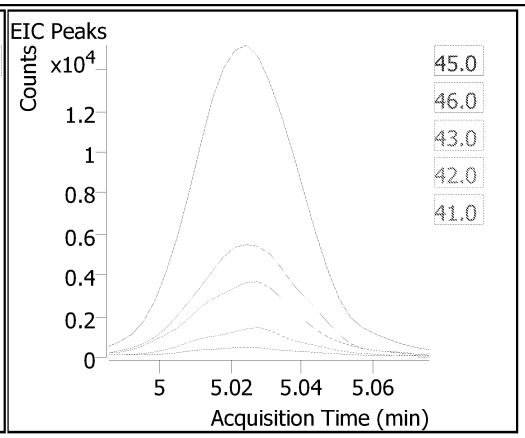

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.0246 | Dimethyl ether | 54118.2 | 88.1 | 115-10-6 | C2H6O | 0.2173 |

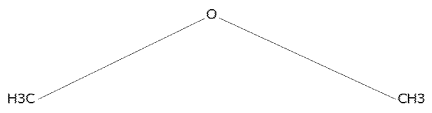


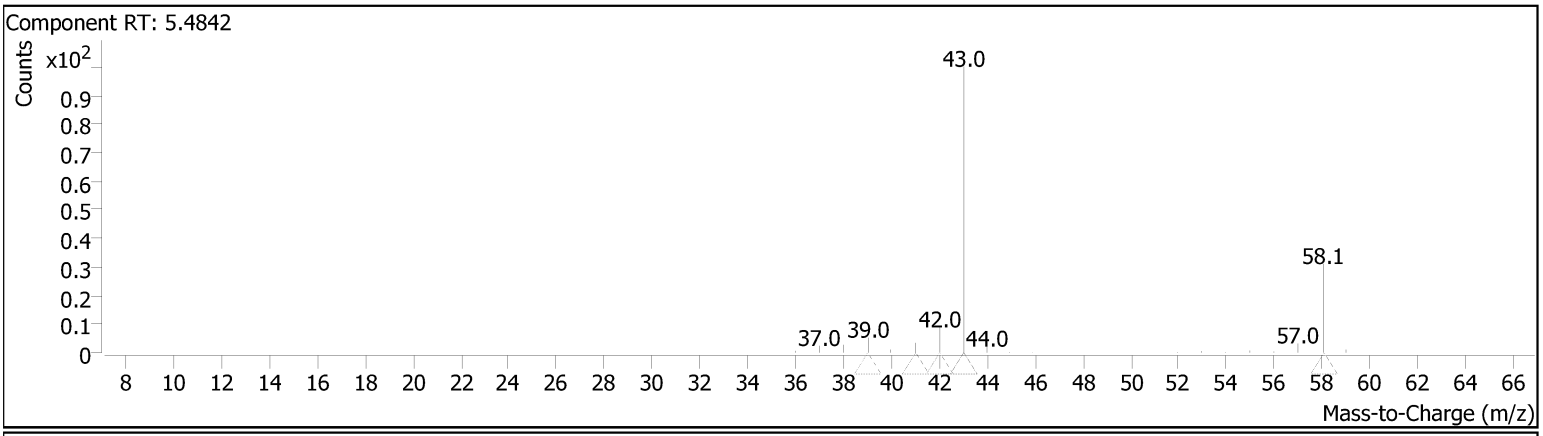



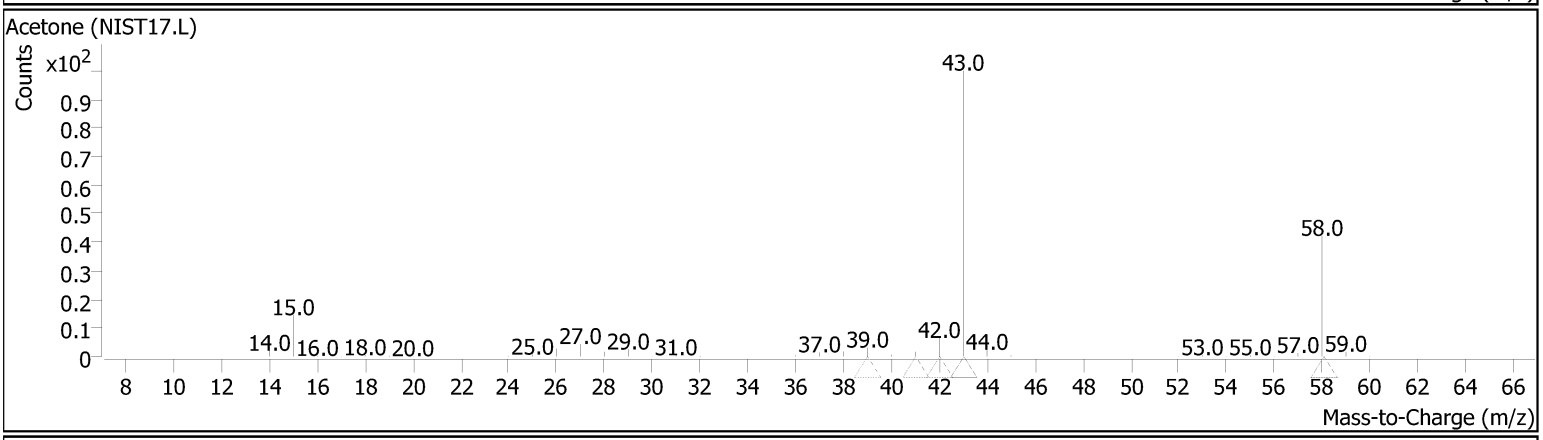



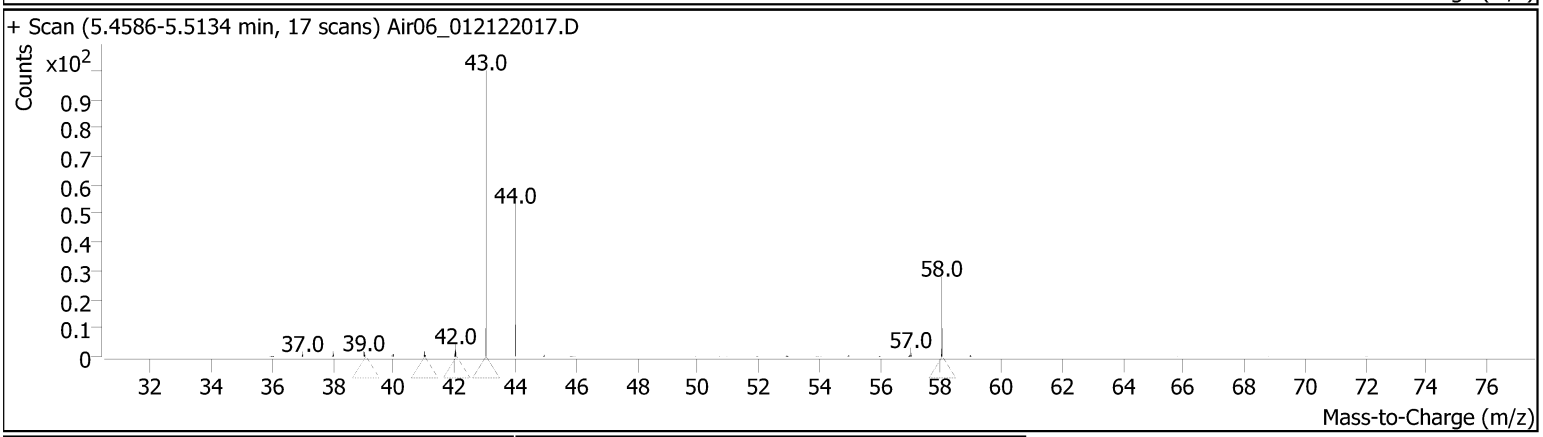



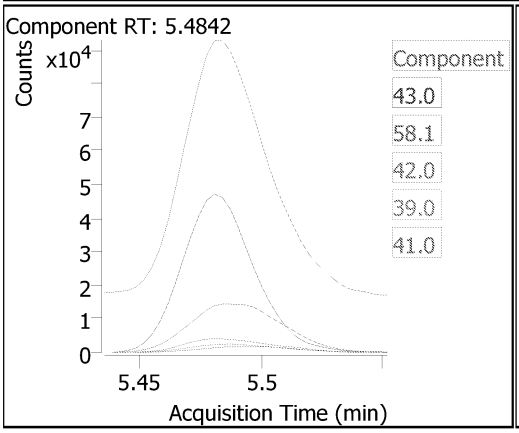



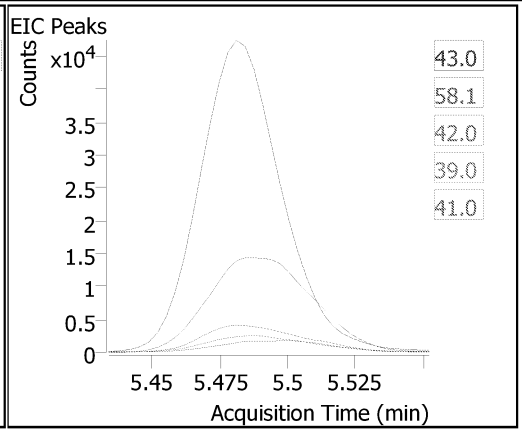
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.4842 | Acetone | 181666.8 | 98.2 | 67-64-1 | C3H6O | 0.7295 |

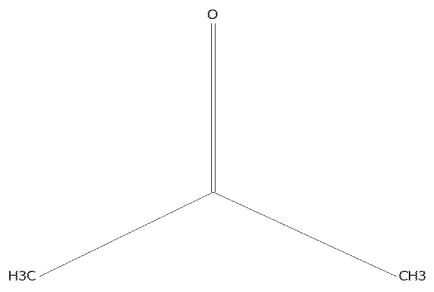


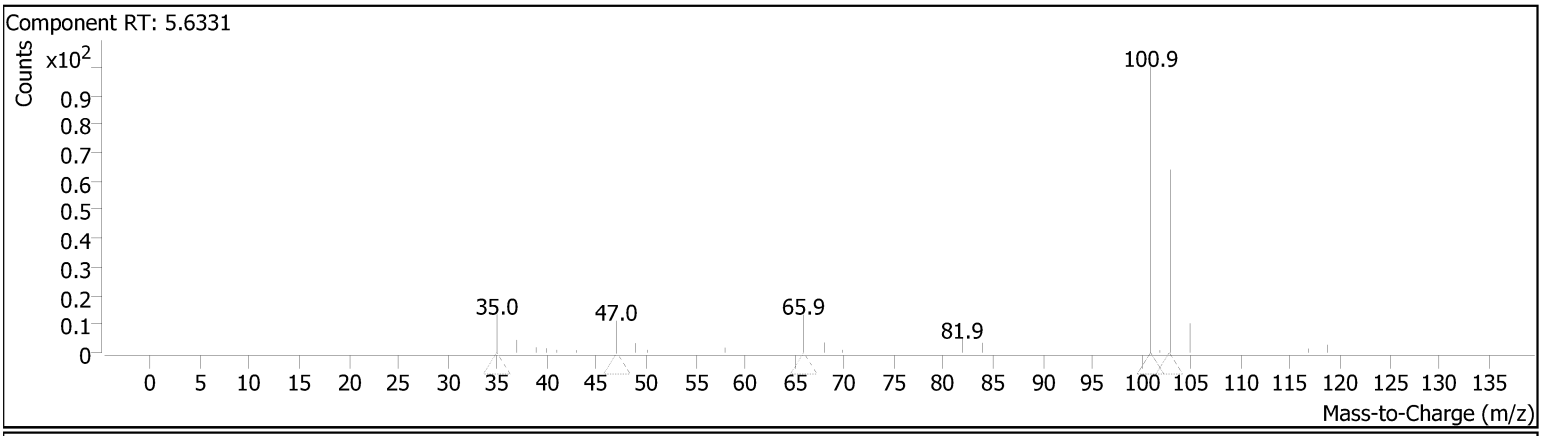



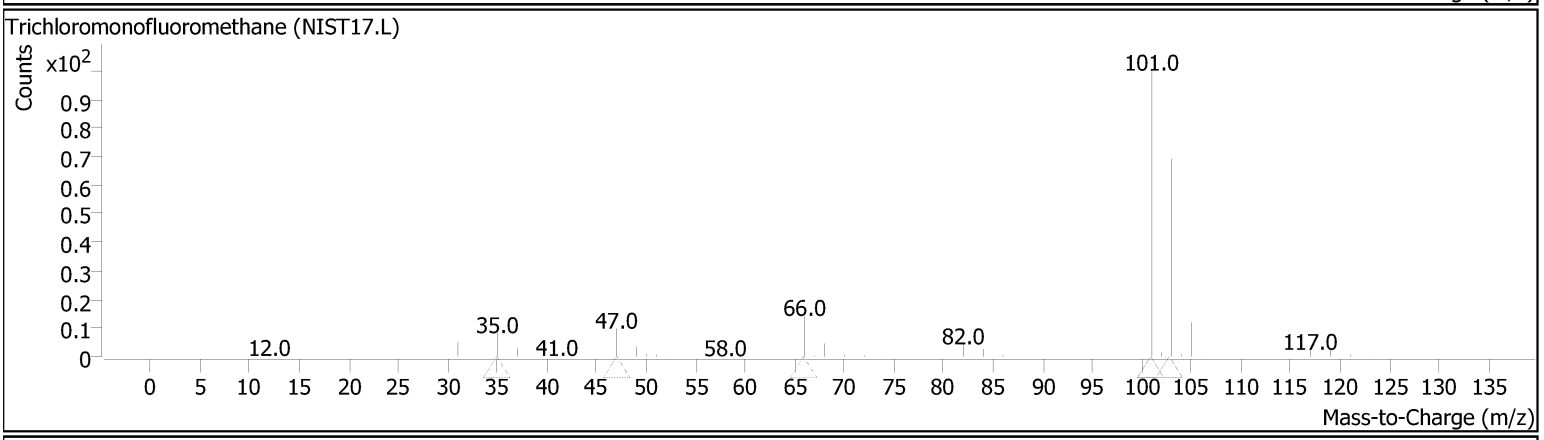



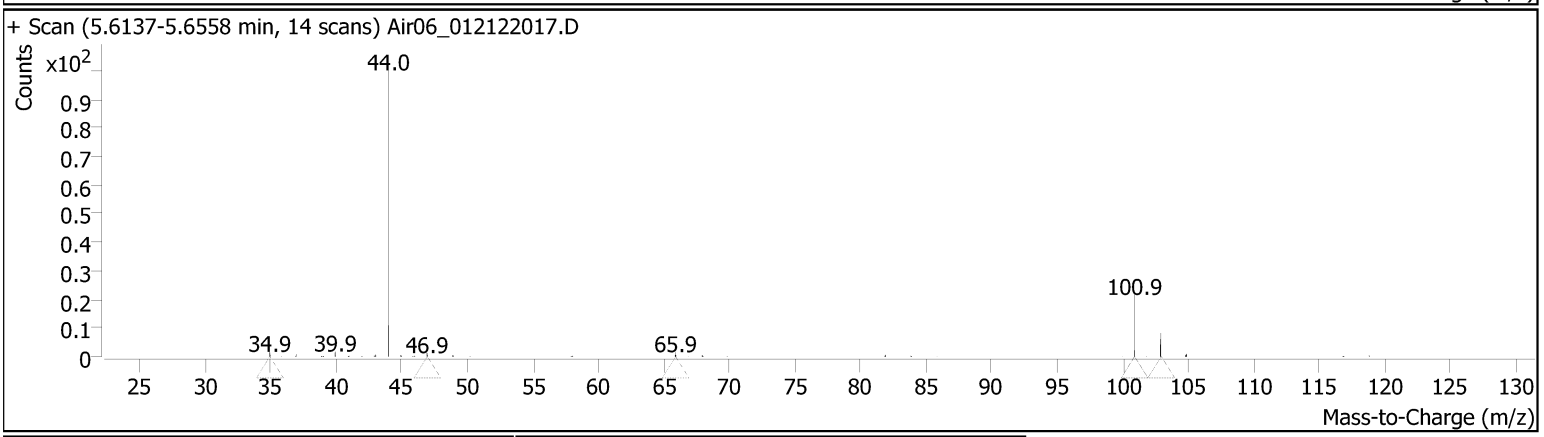



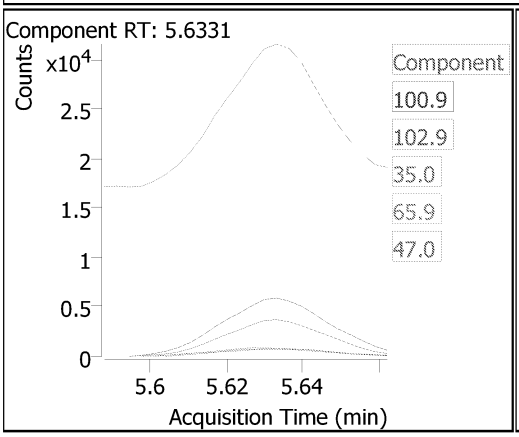



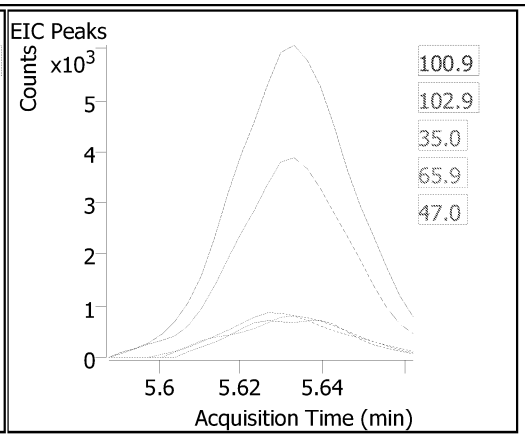
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.6331 | Trichloromonofluoromethane | 31074.5 | 96.6 | 75-69-4 | CCl3F | 0.1248 |

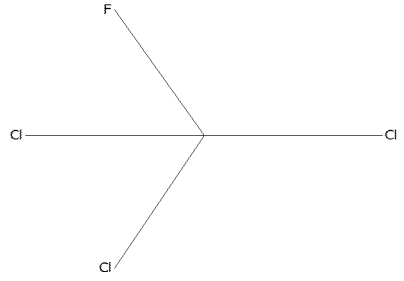


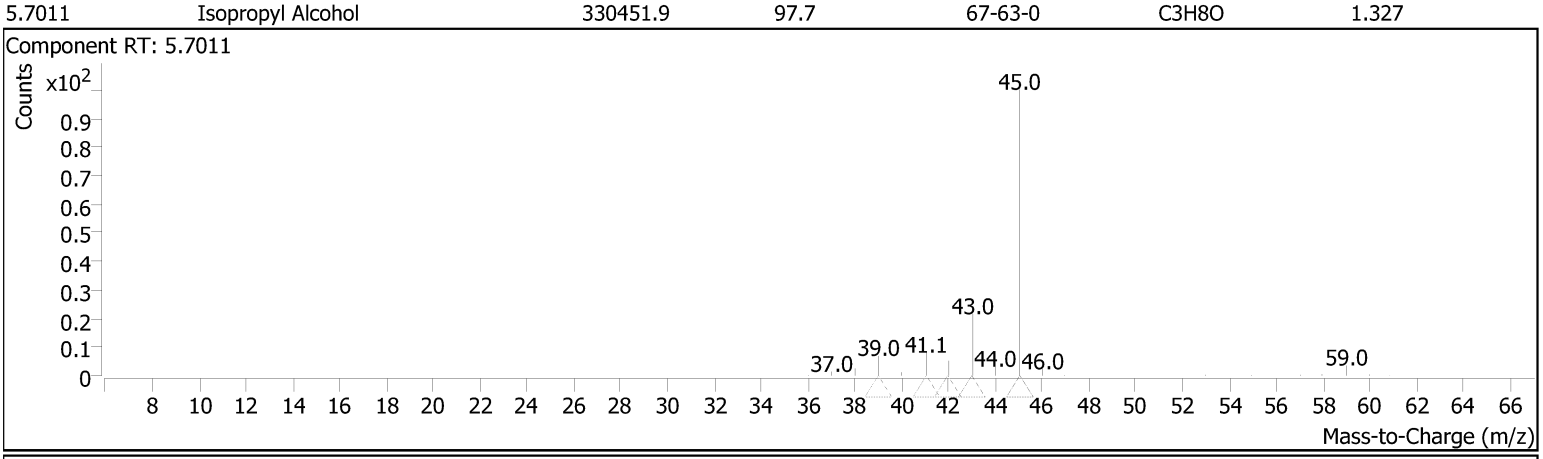



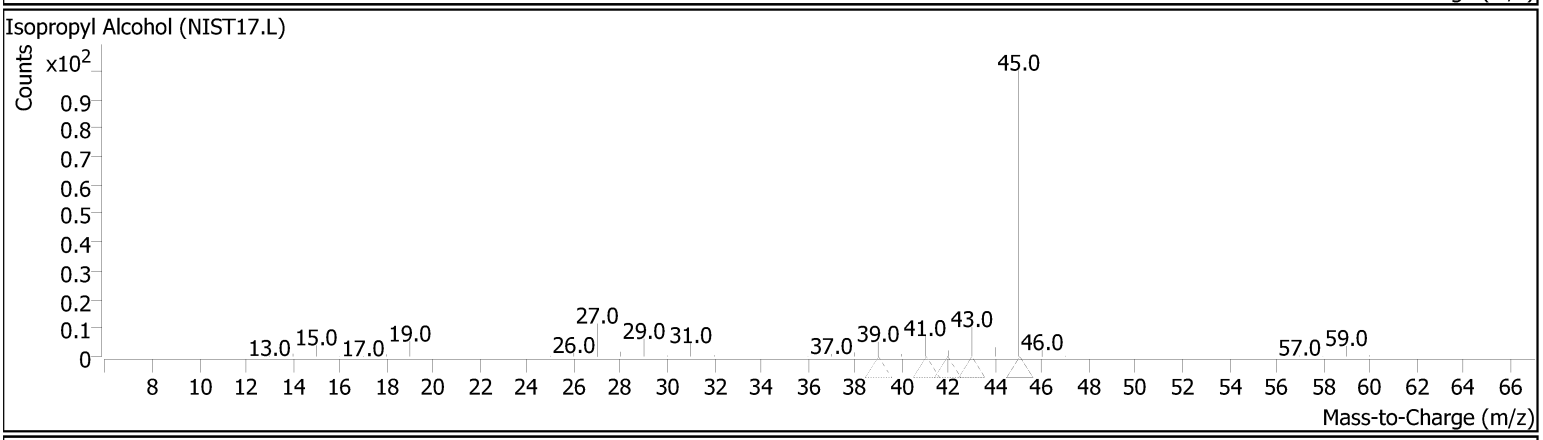



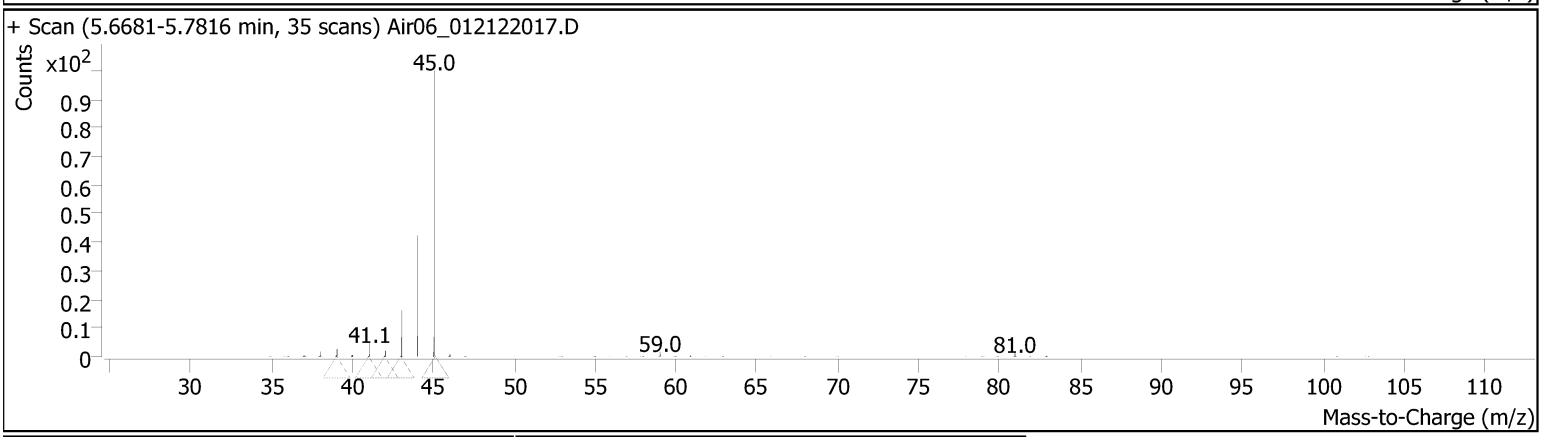



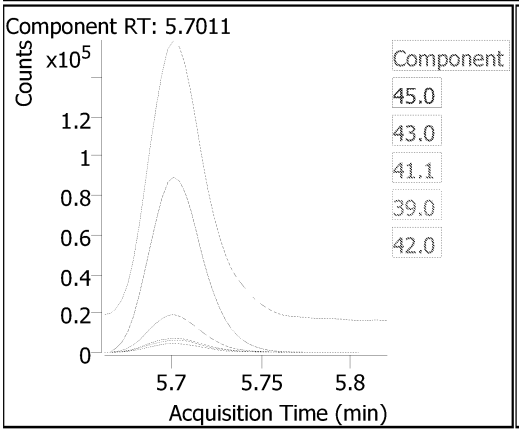



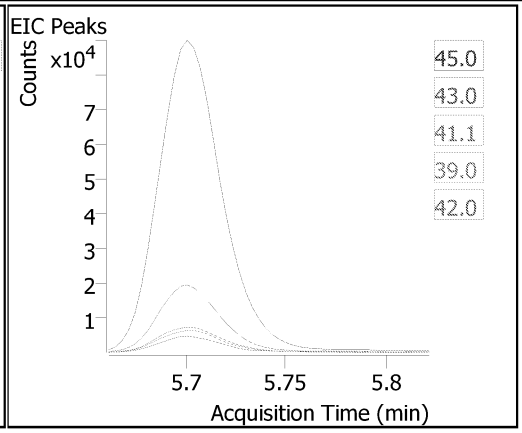
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.7011 | Isopropyl Alcohol | 330451.9 | 97.7 | 67-63-0 | C3H8O | 1.327 |

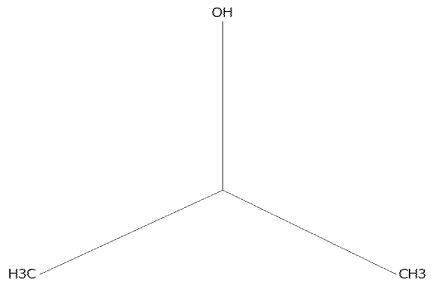


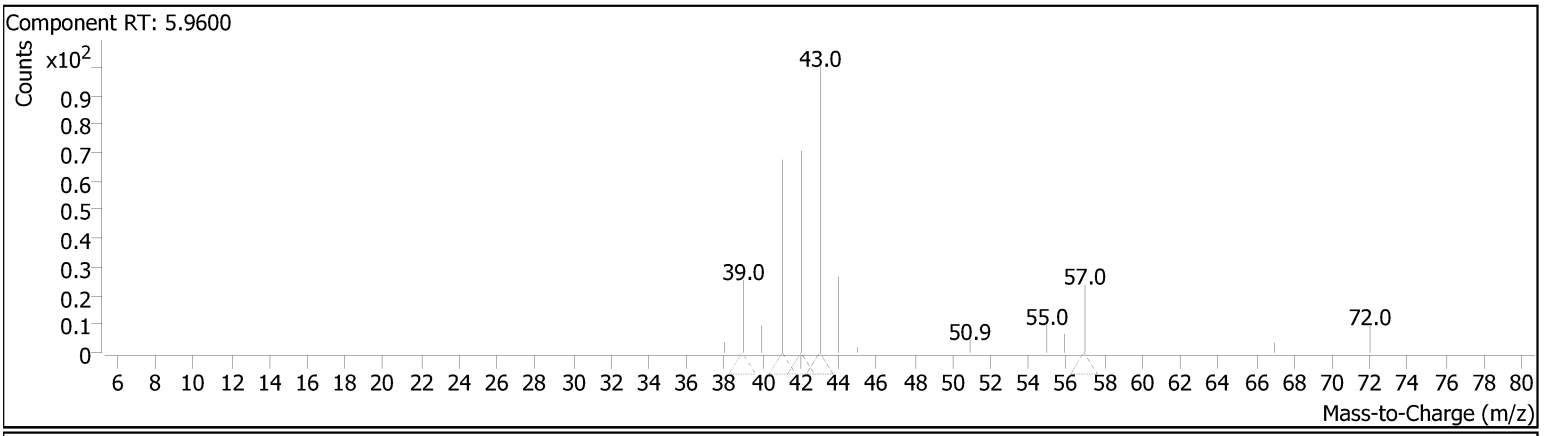



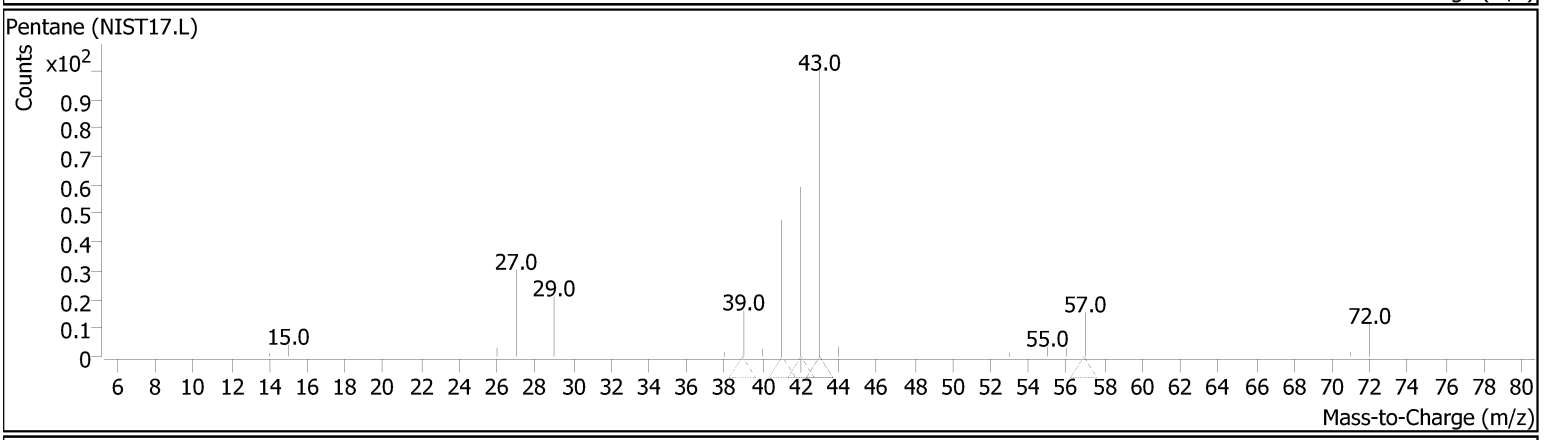



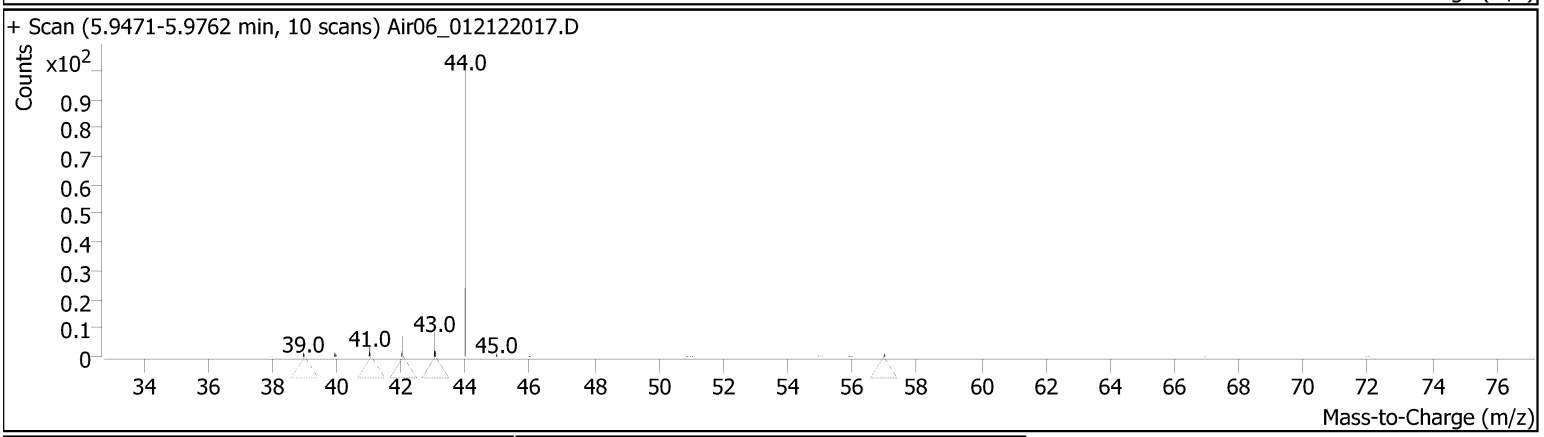



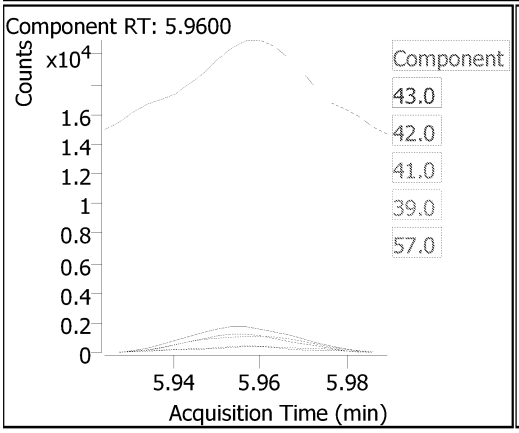



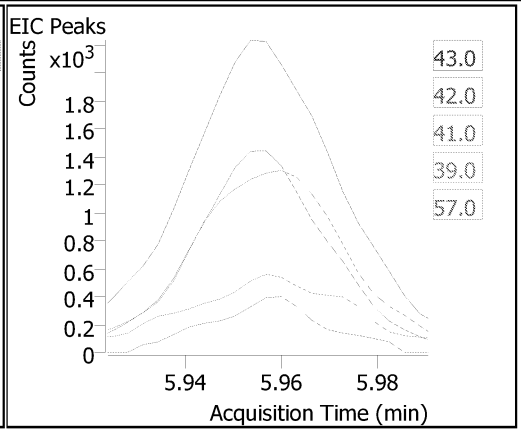
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.9600 | Pentane | 12333.3 | 92.7 | 109-66-0 | C5H12 | 0.04953 |

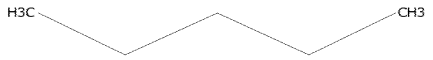


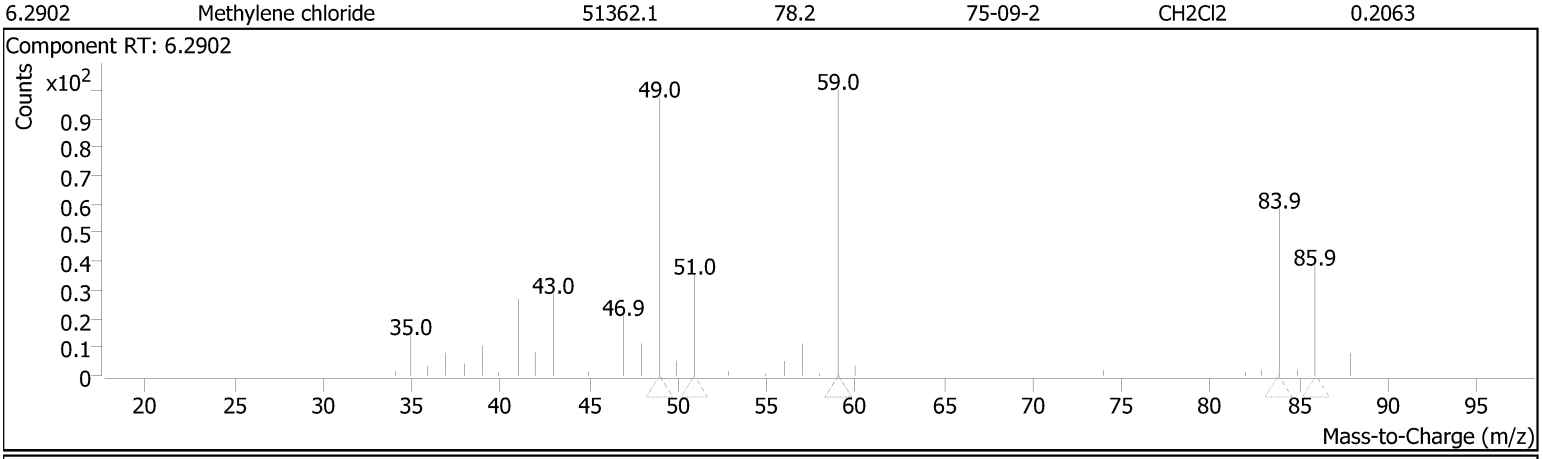



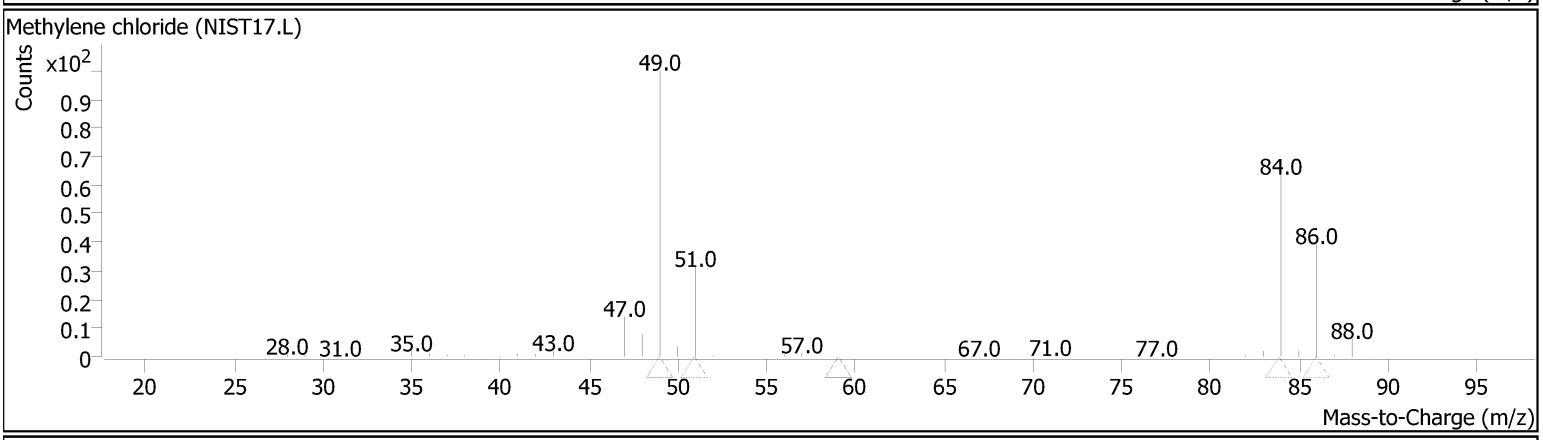



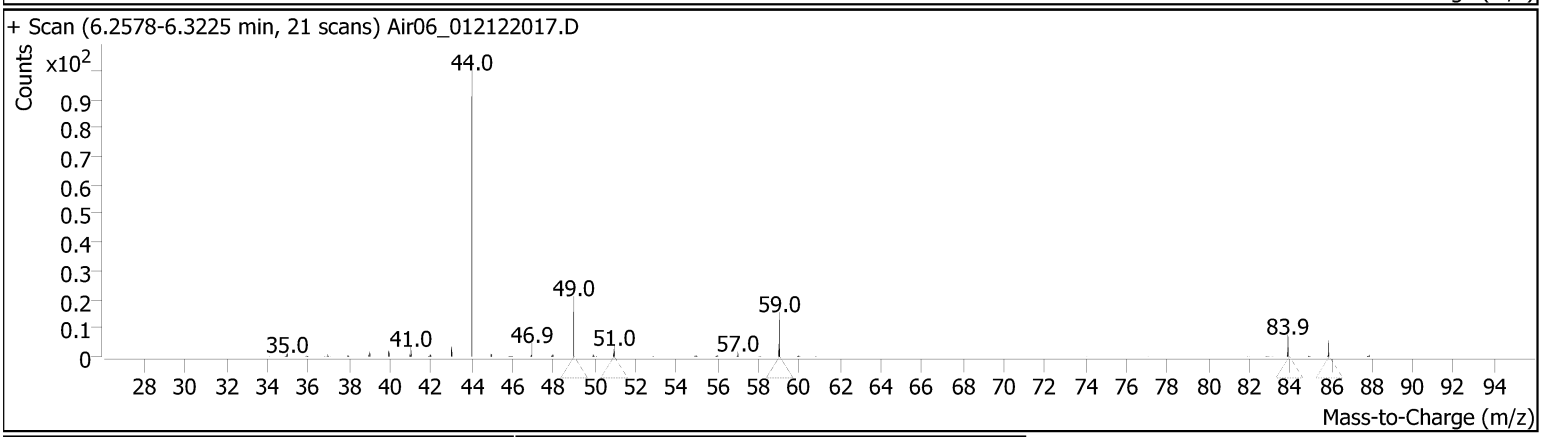



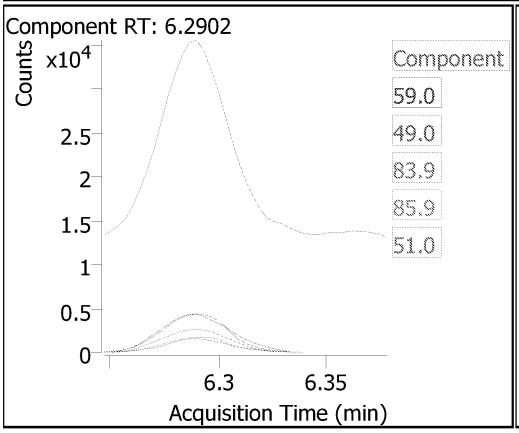



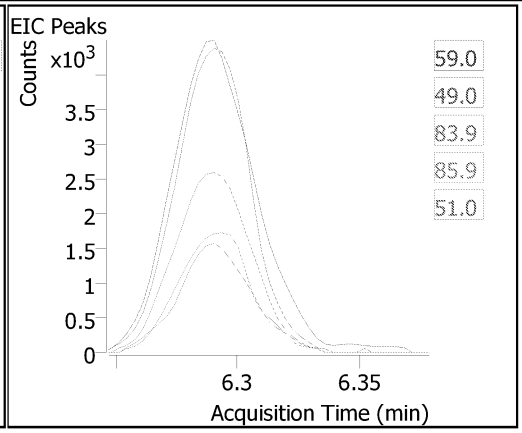
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.2902 | Methylene chloride | 51362.1 | 78.2 | 75-09-2 | CH2Cl2 | 0.2063 |

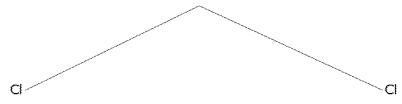


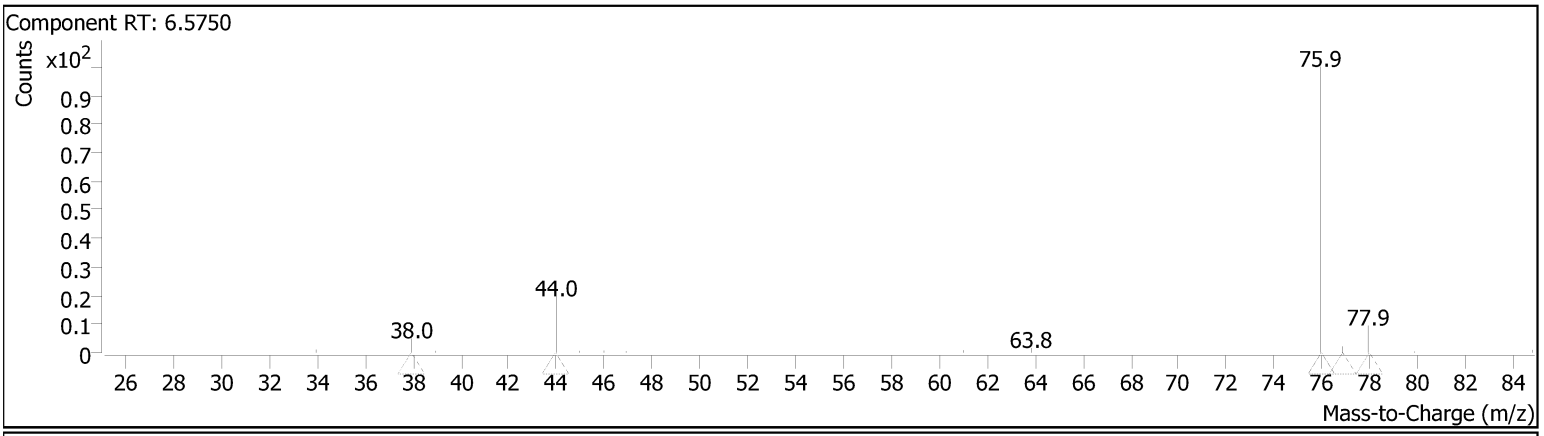



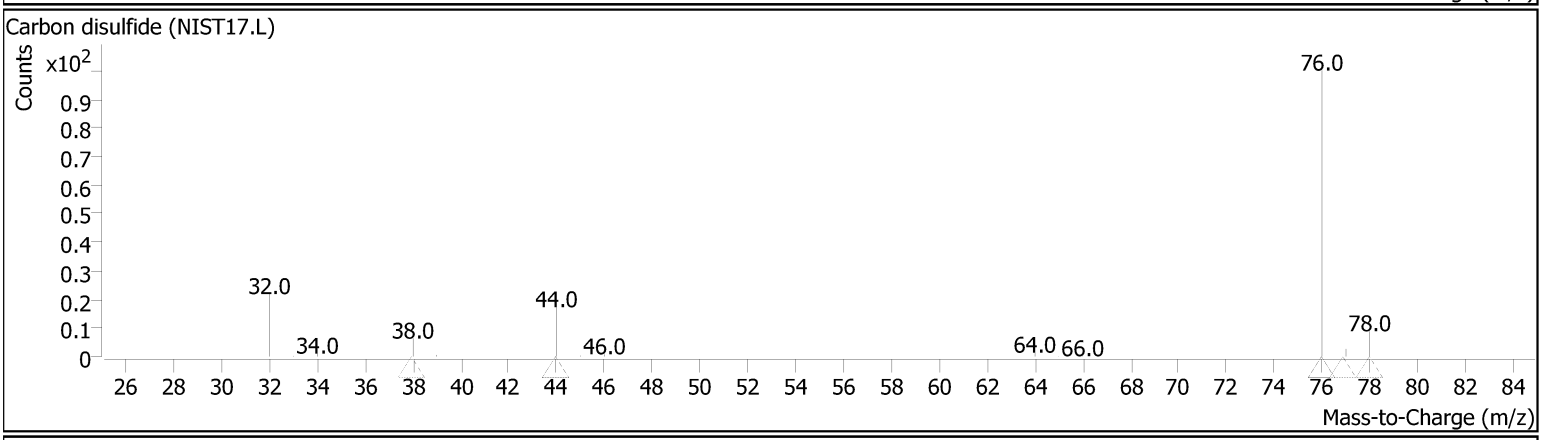



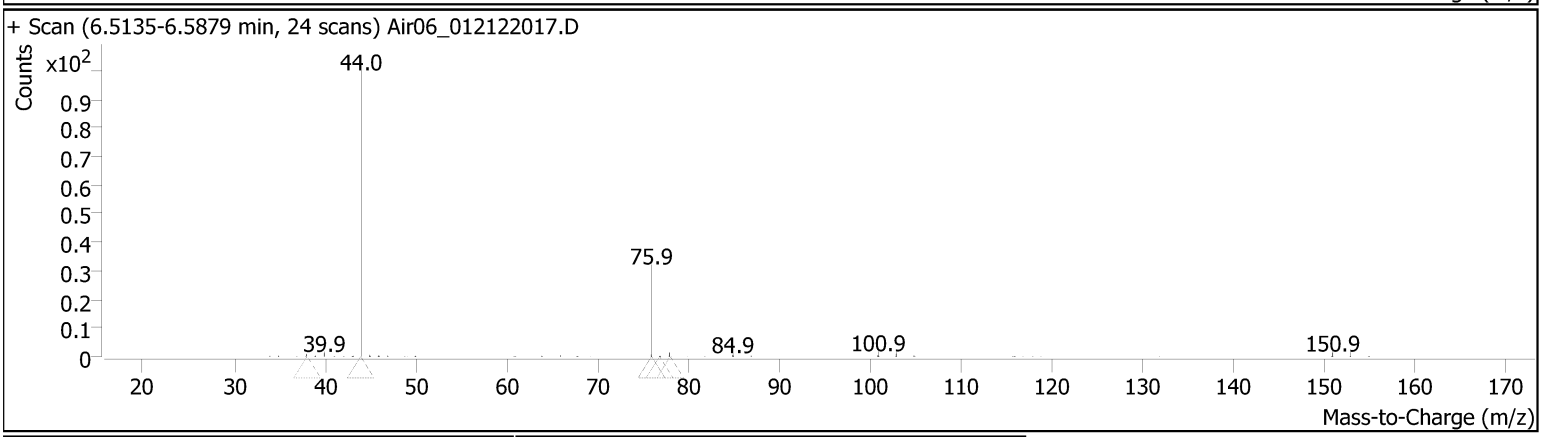



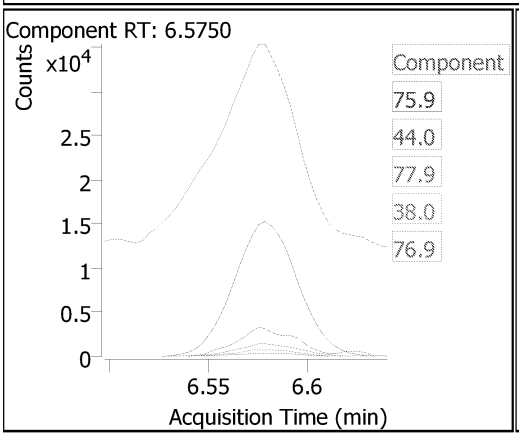



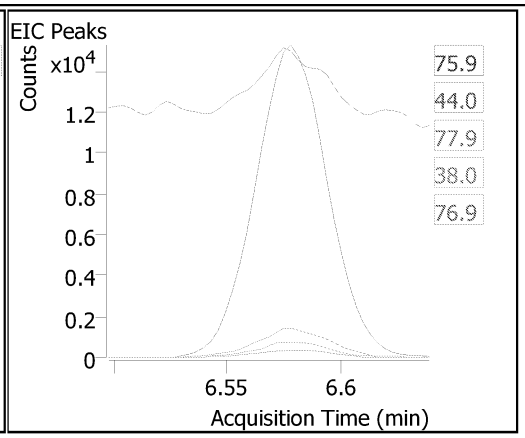
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.5750 | Carbon disulfide | 66624.7 | 89.9 | 75-15-0 | CS2 | 0.2675 |



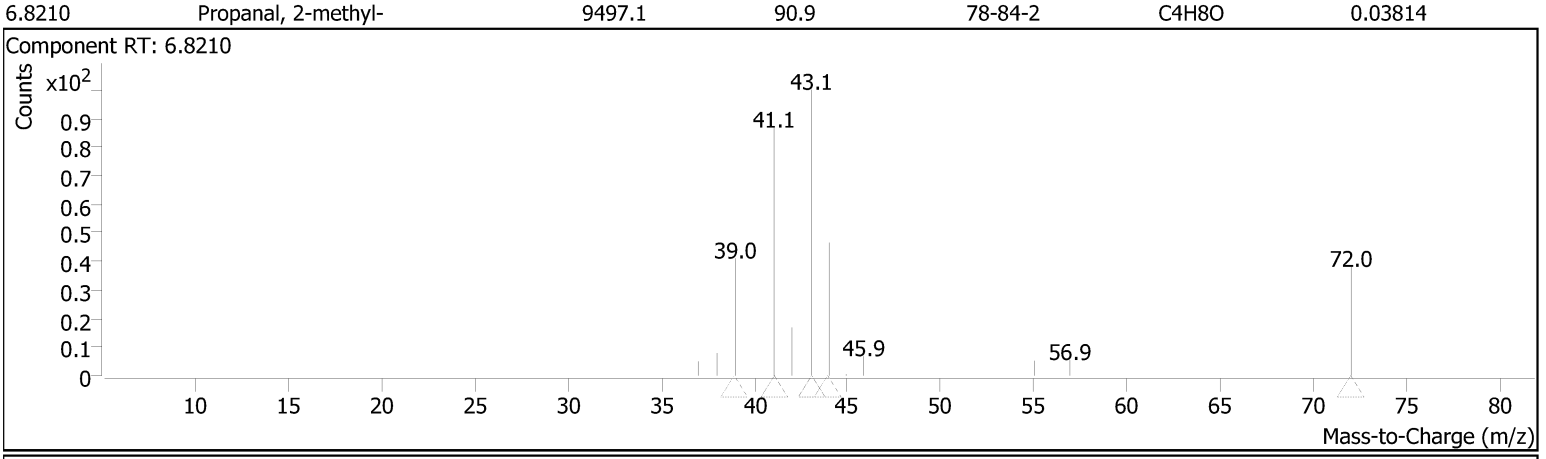



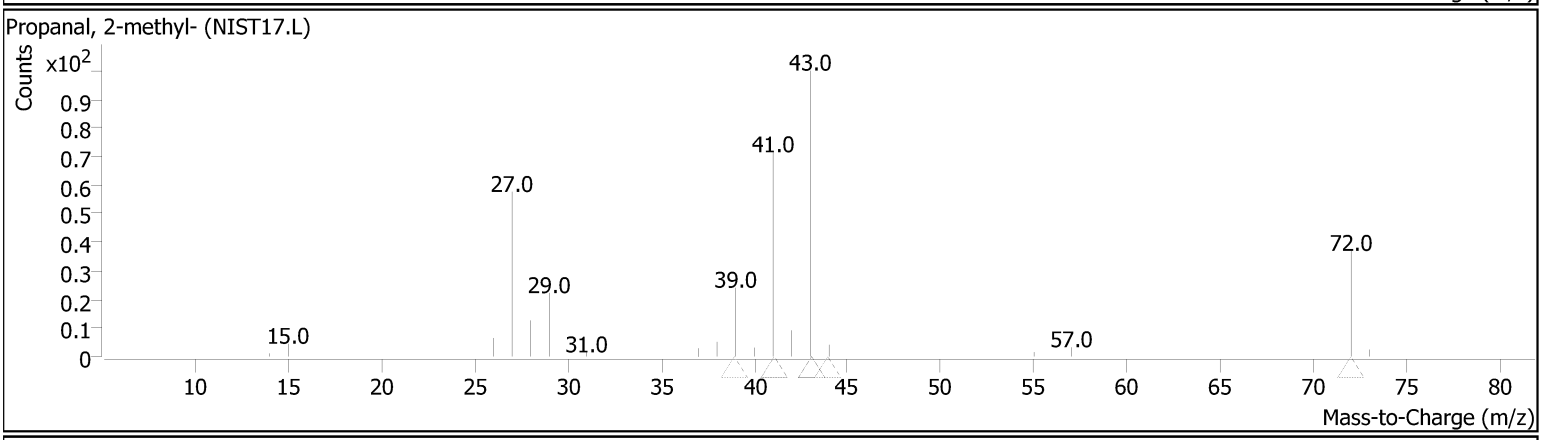



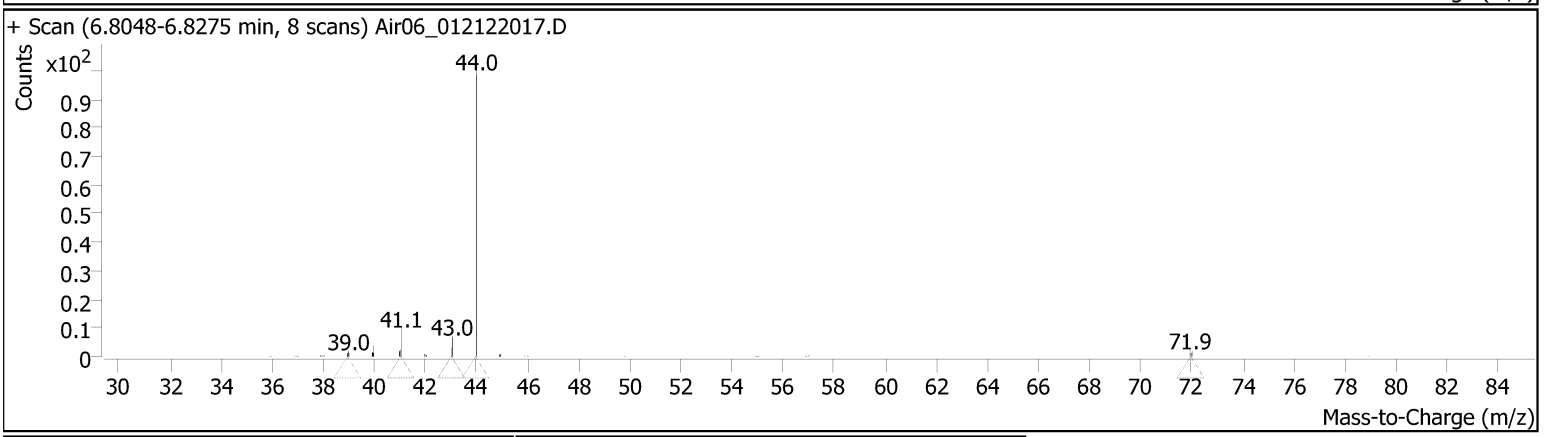



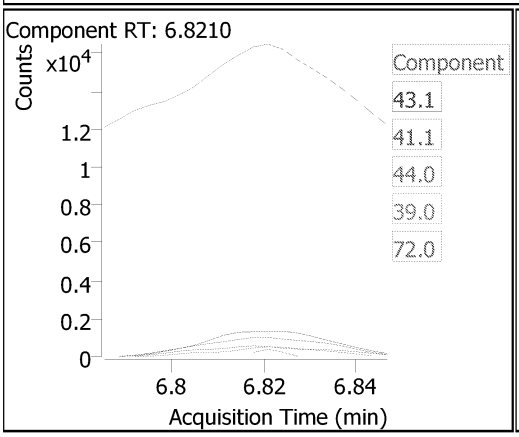



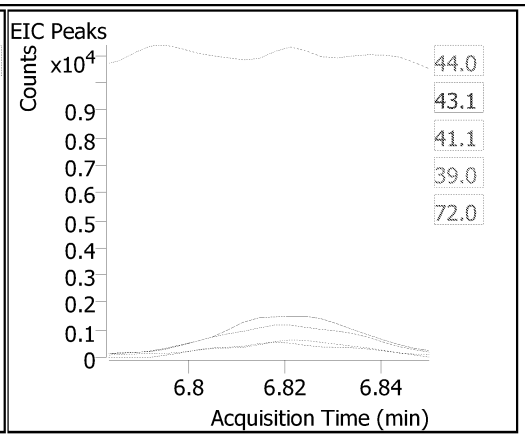
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.8210 | Propanal, 2-methyl- | 9497.1 | 90.9 | 78-84-2 | C4H8O | 0.03814 |

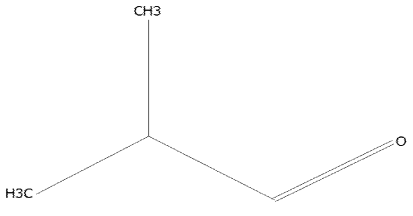


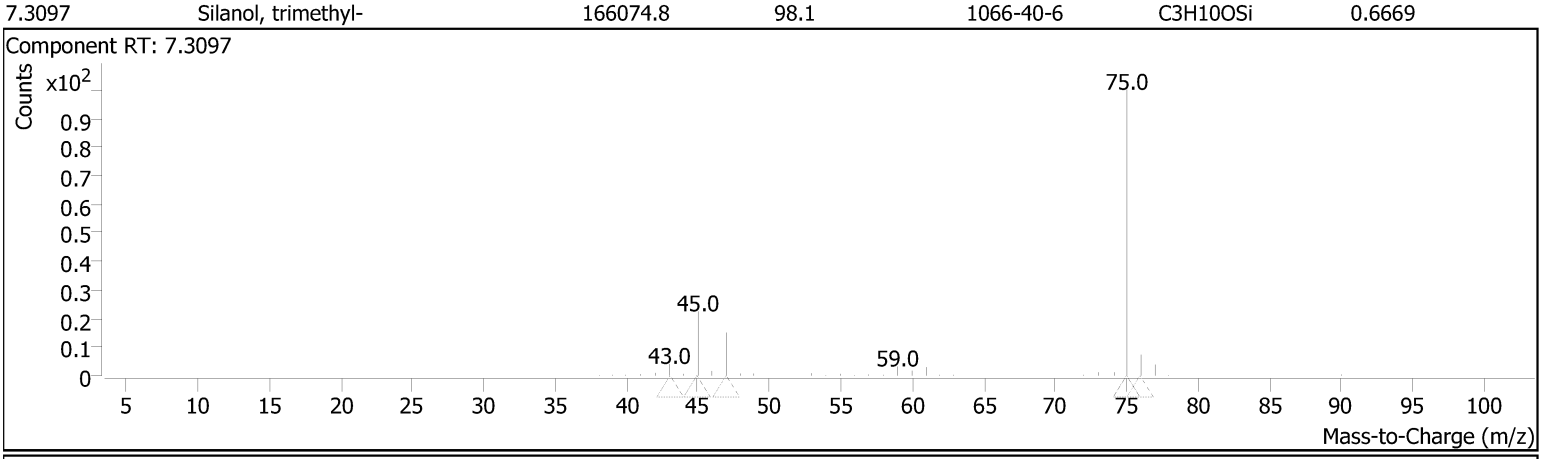



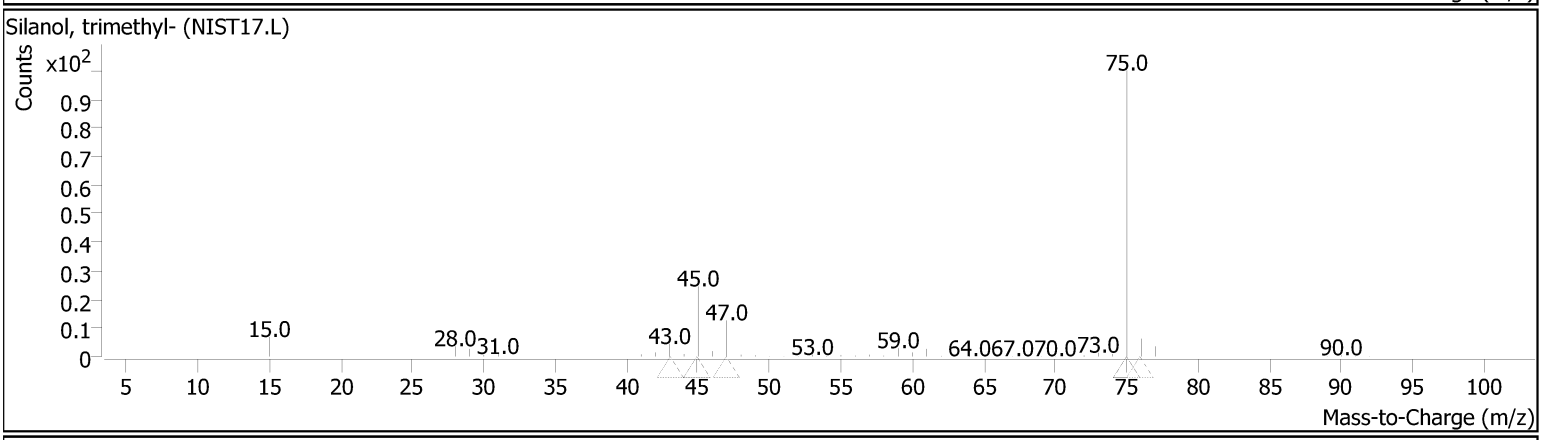



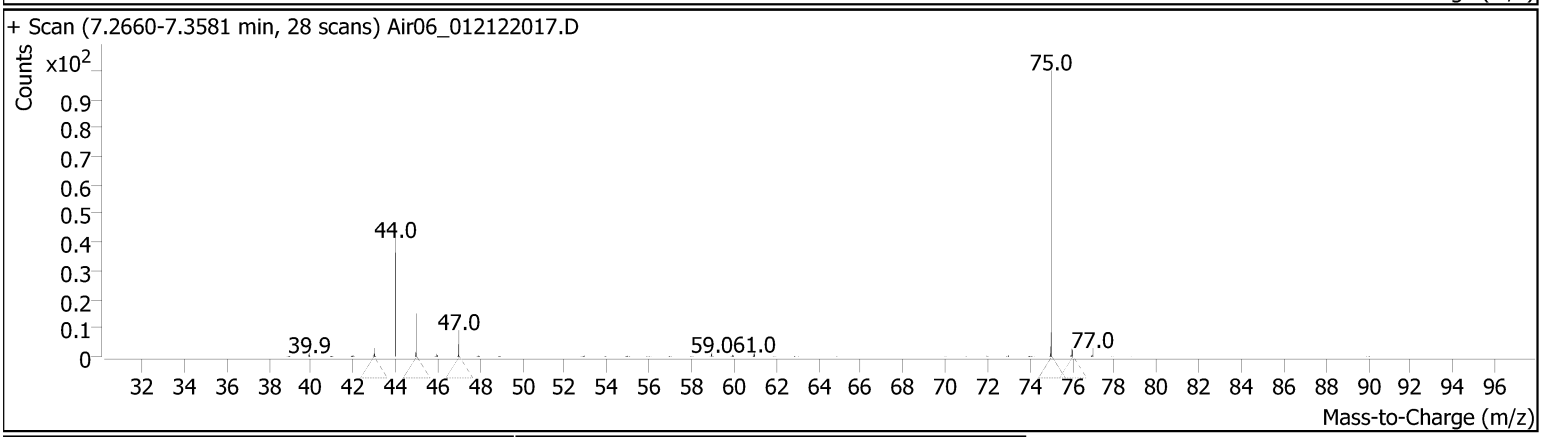



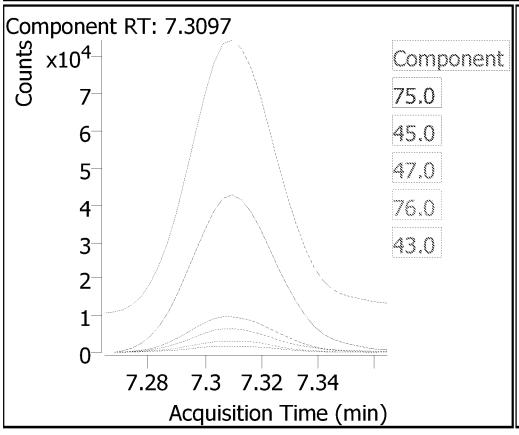



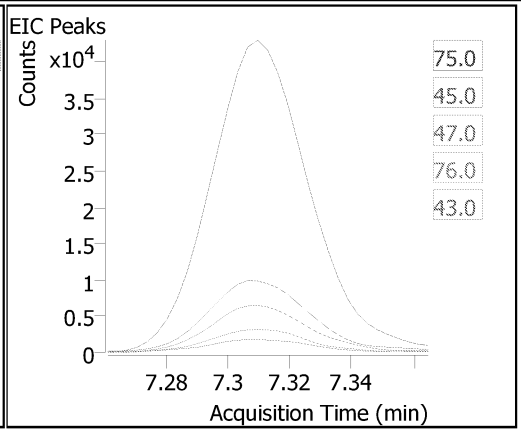
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.3097 | Silanol, trimethyl- | 166074.8 | 98.1 | 1066-40-6 | C3H10OSi | 0.6669 |

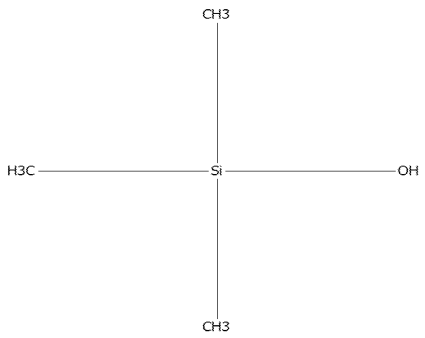


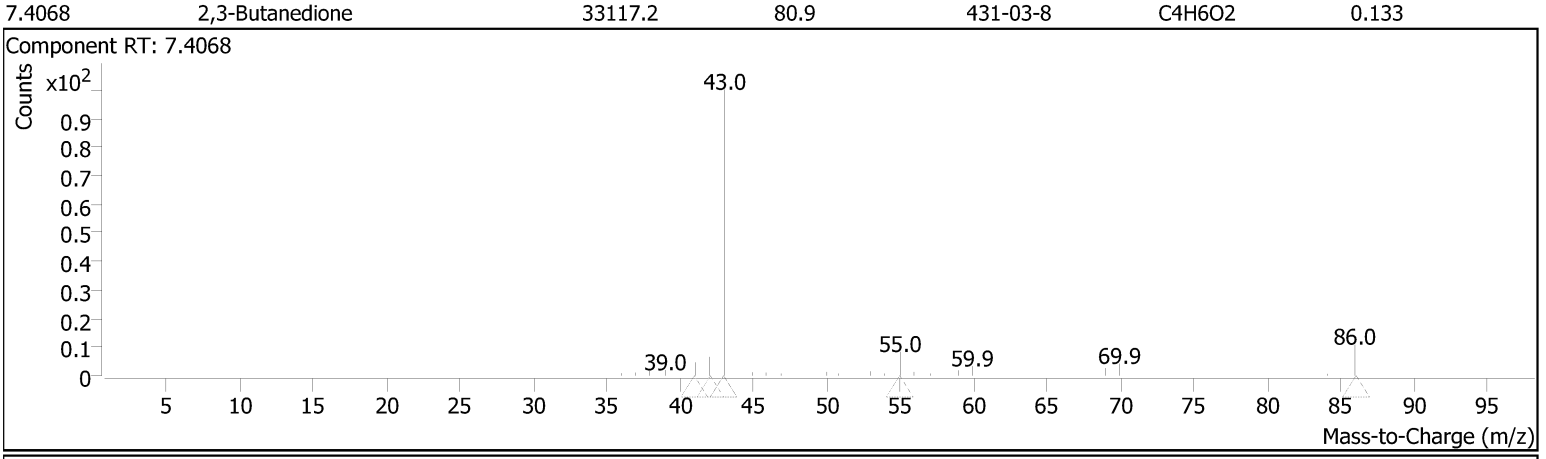



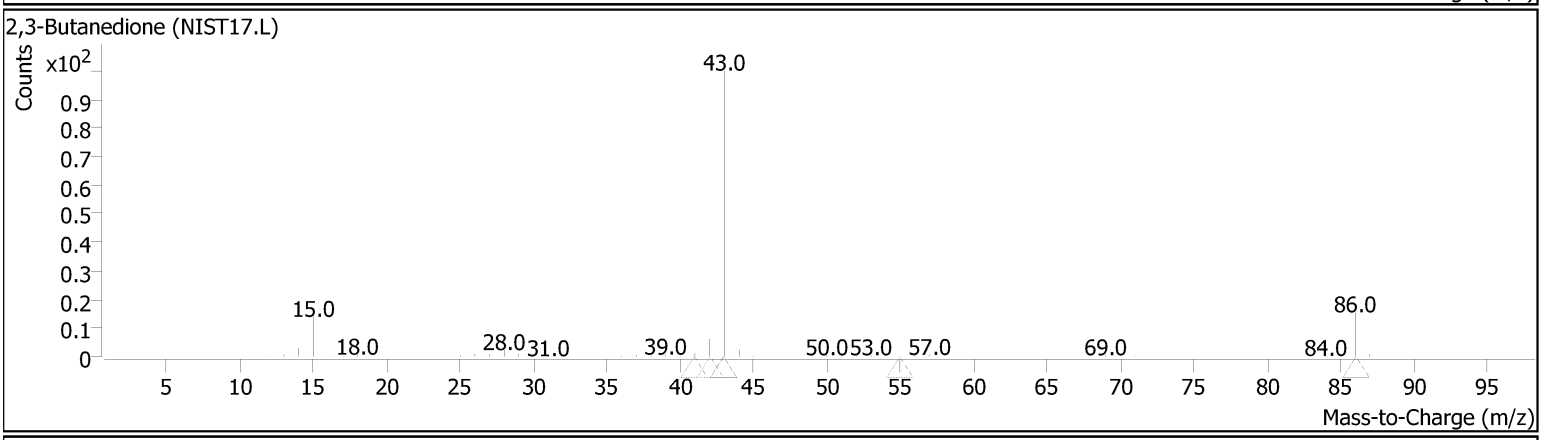



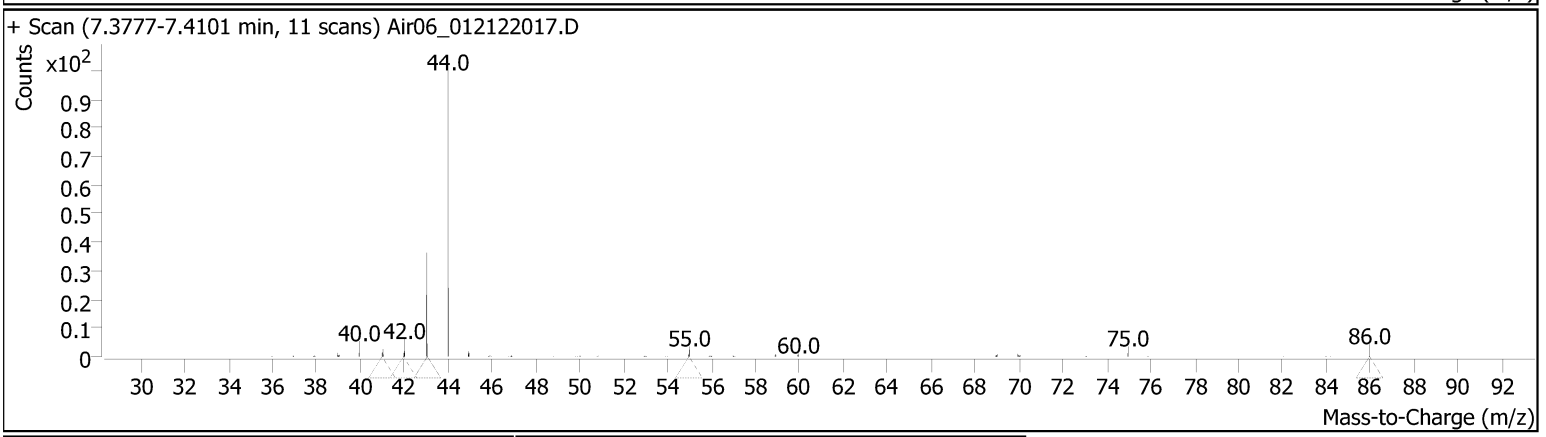



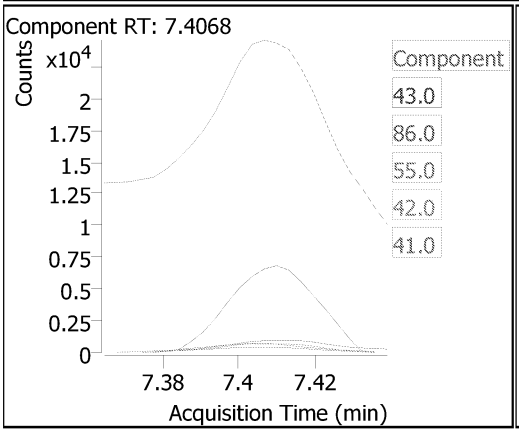



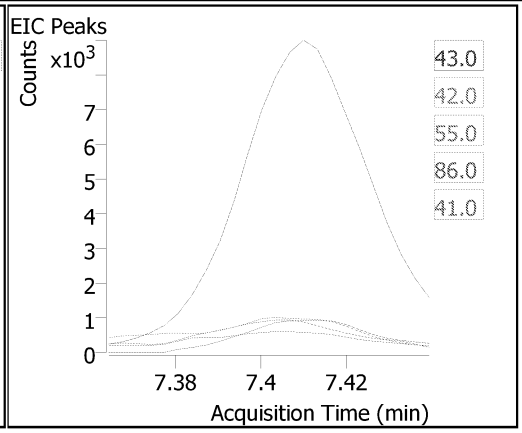
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.4068 | 2,3-Butanedione | 33117.2 | 80.9 | 431-03-8 | C4H6O2 | 0.133 |

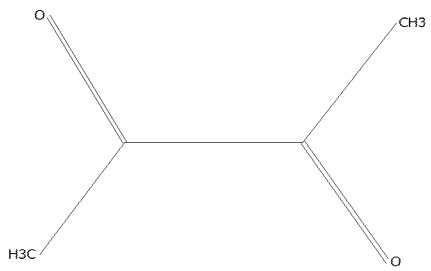


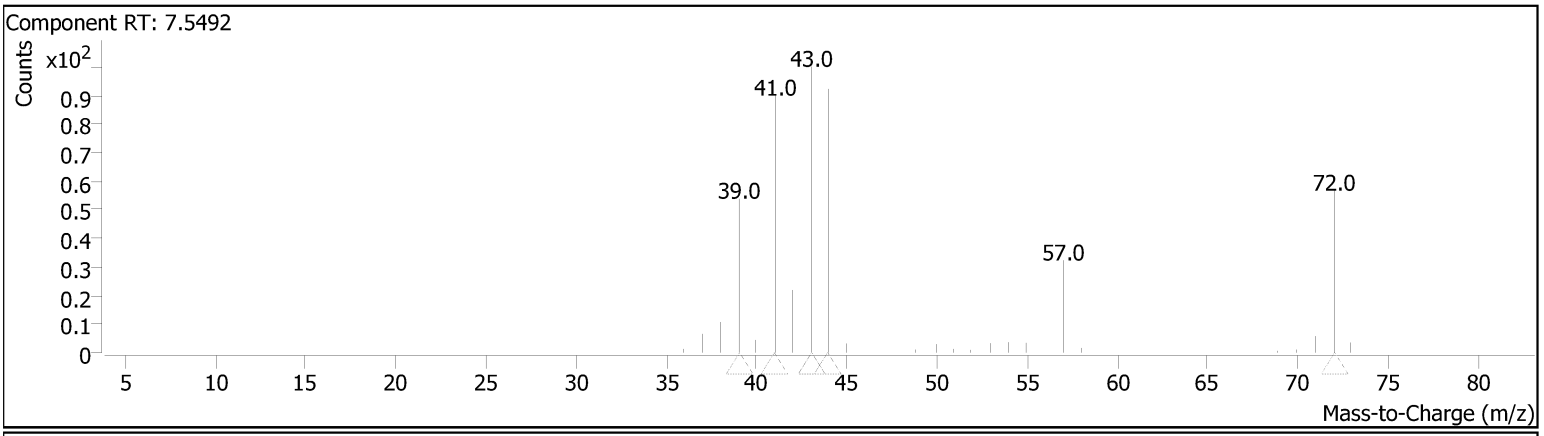



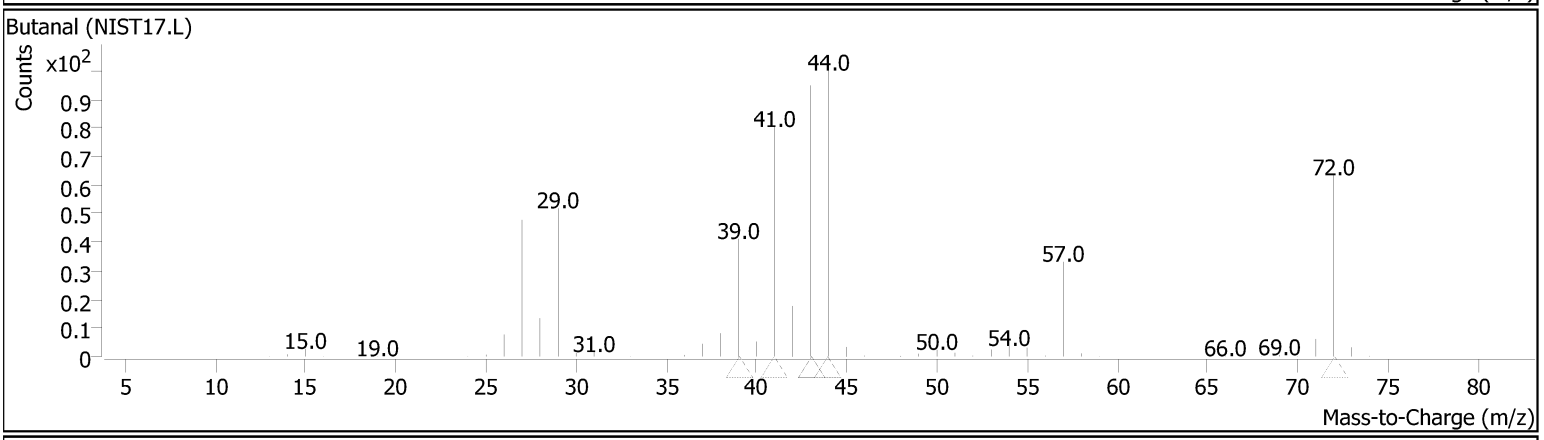



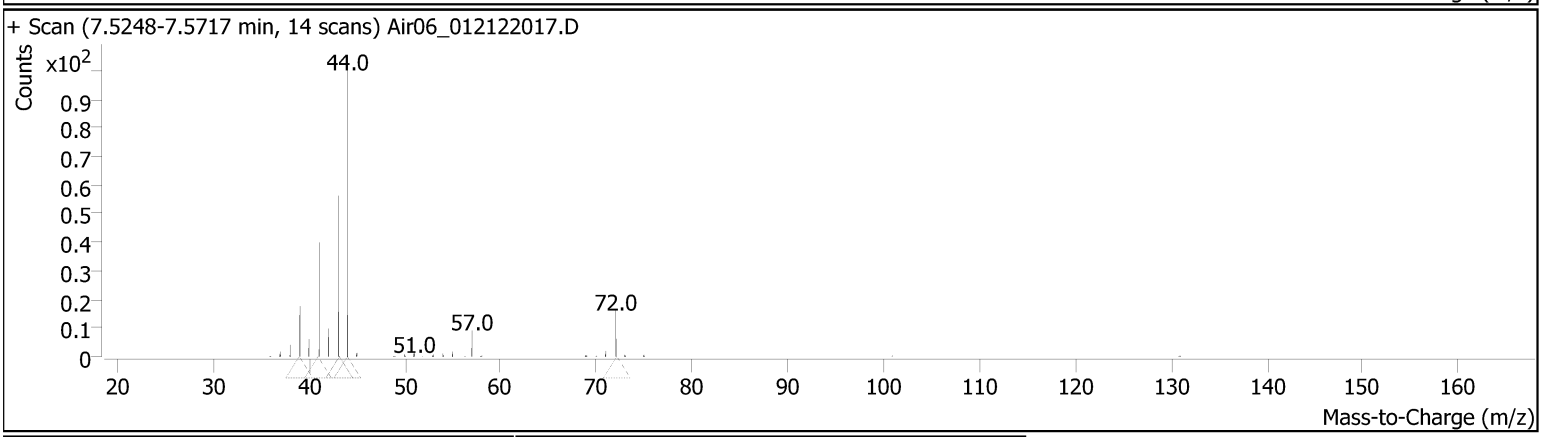



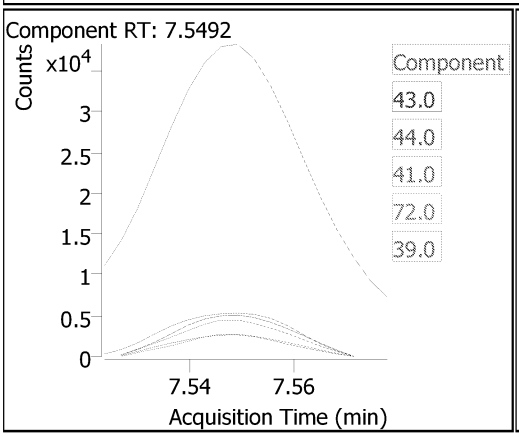



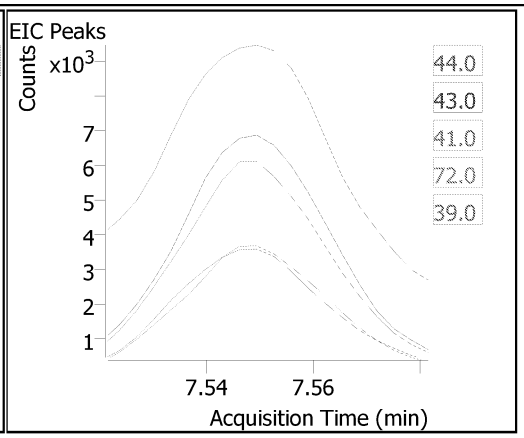
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.5492 | Butanal | 55087.9 | 99.2 | 123-72-8 | C4H8O | 0.2212 |

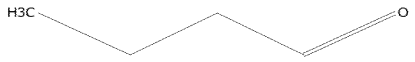


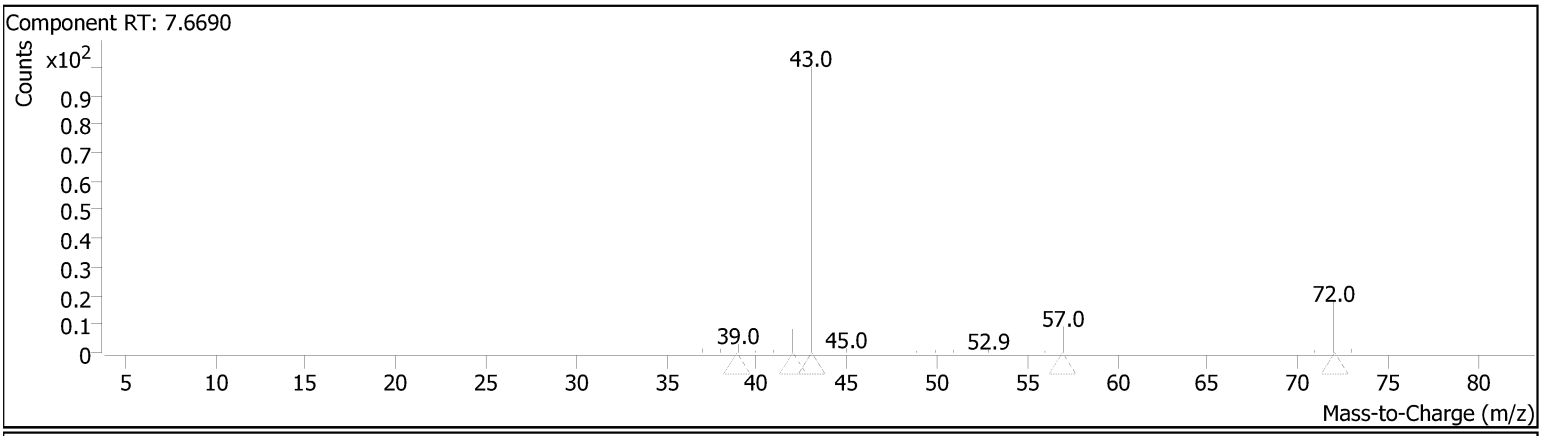



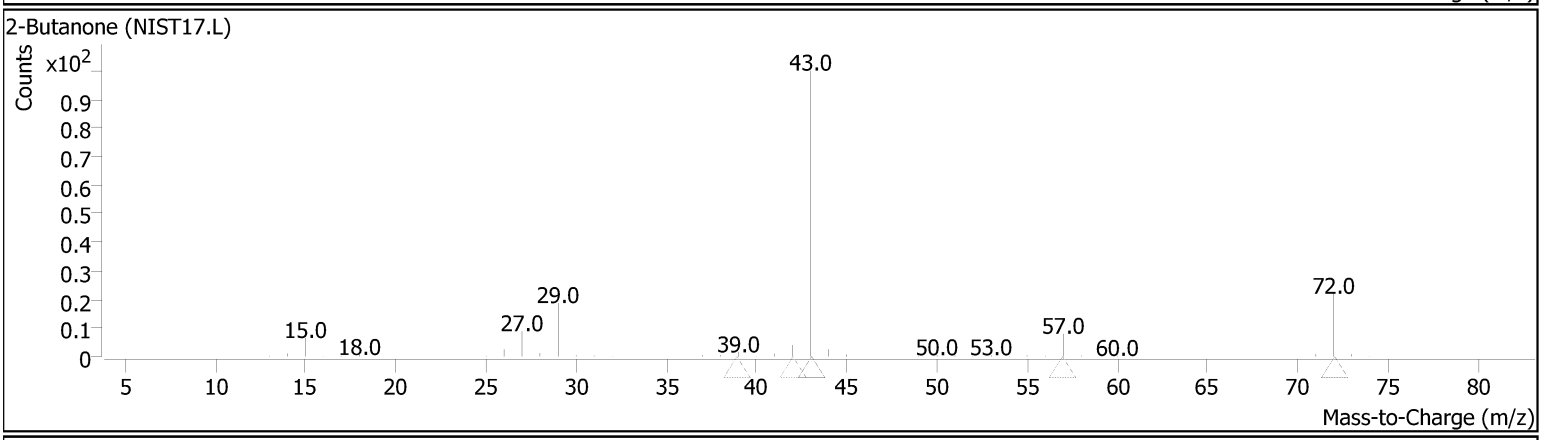



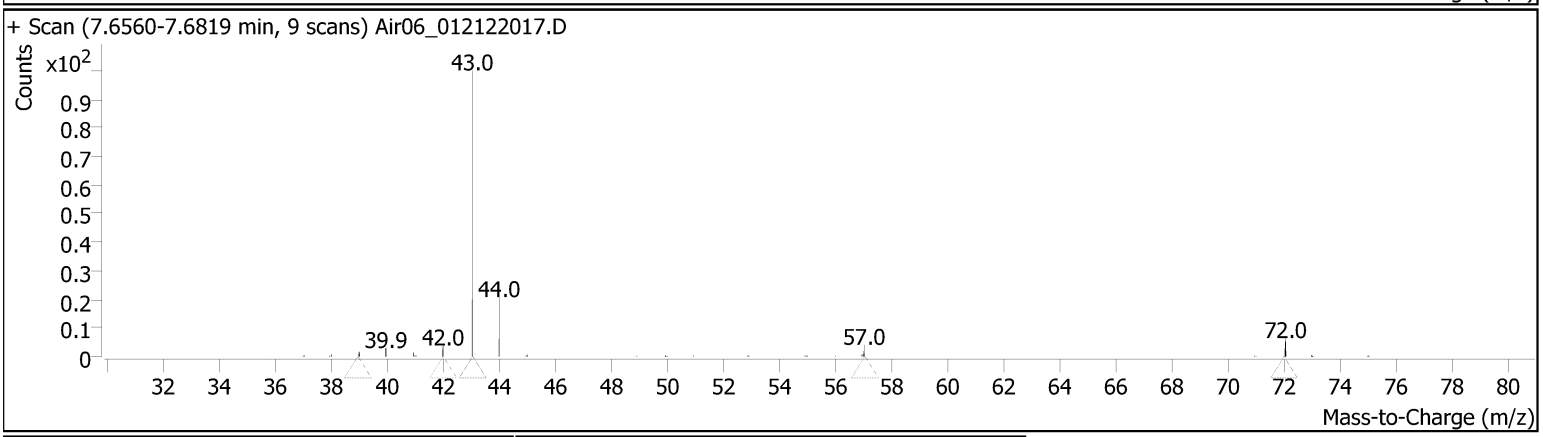



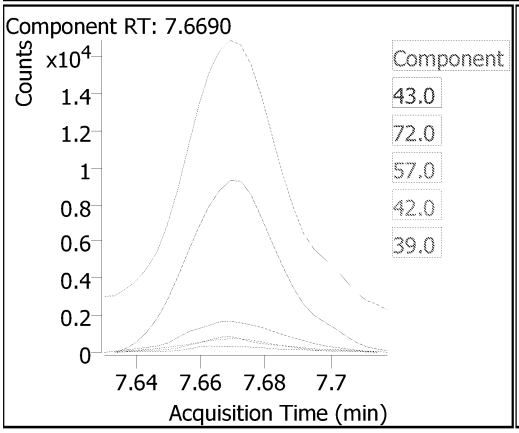



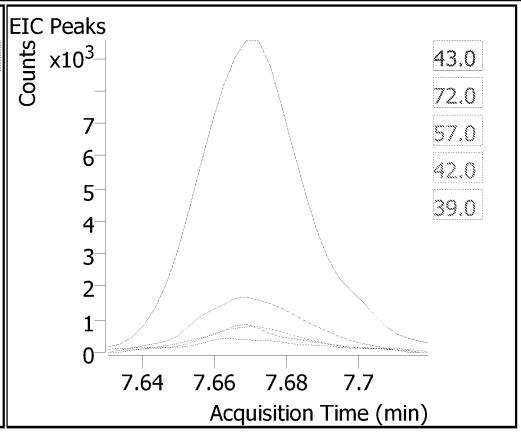
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.6690 | 2-Butanone | 29206.0 | 94.7 | 78-93-3 | C4H8O | 0.1173 |

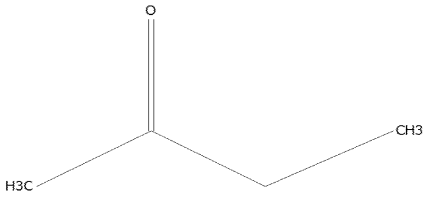


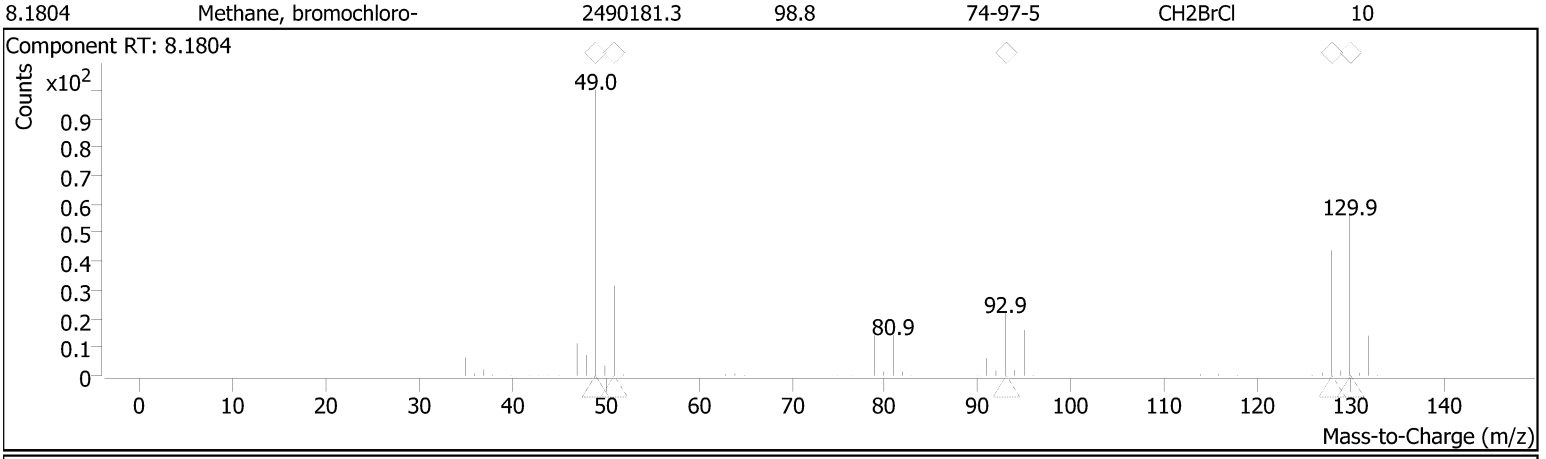



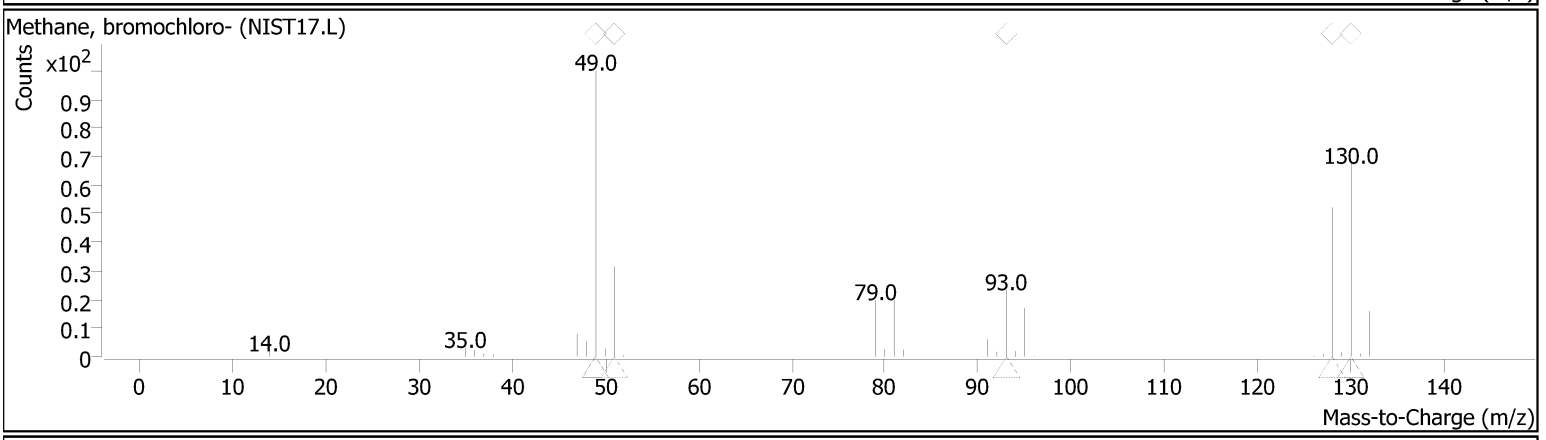



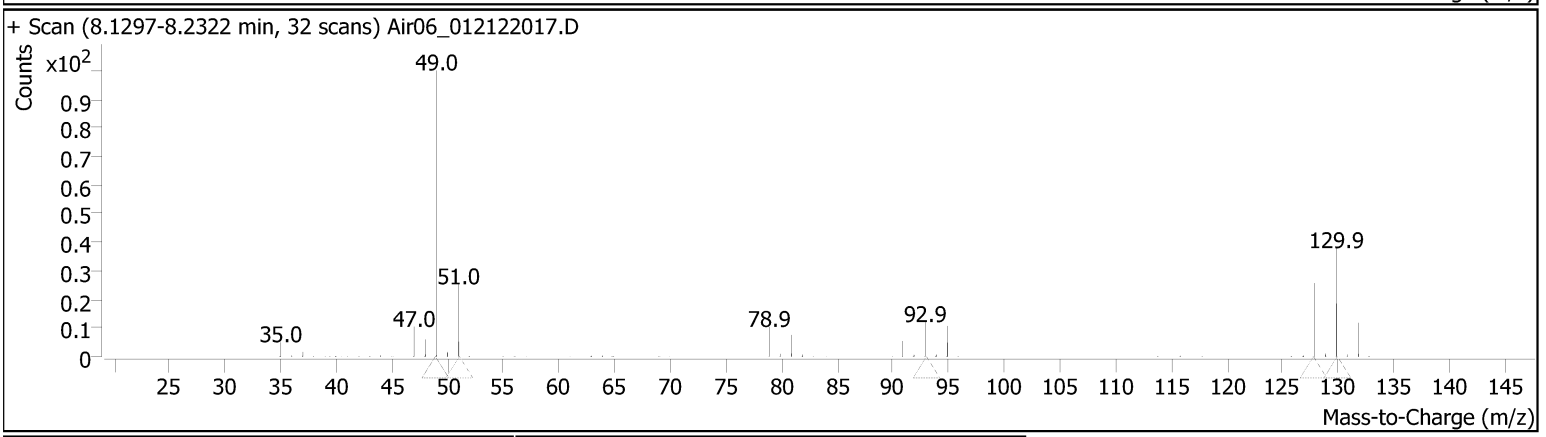



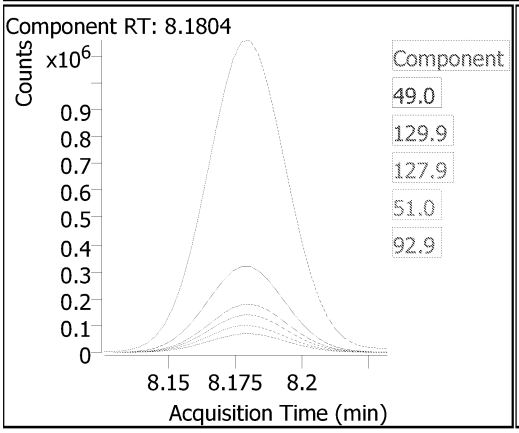



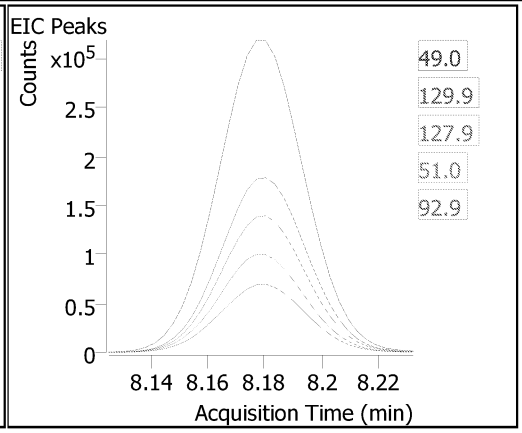
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.1804 | Methane, bromochloro- | 2490181.3 | 98.8 | 74-97-5 | CH2BrCl | 10 |

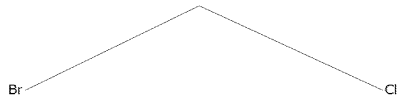


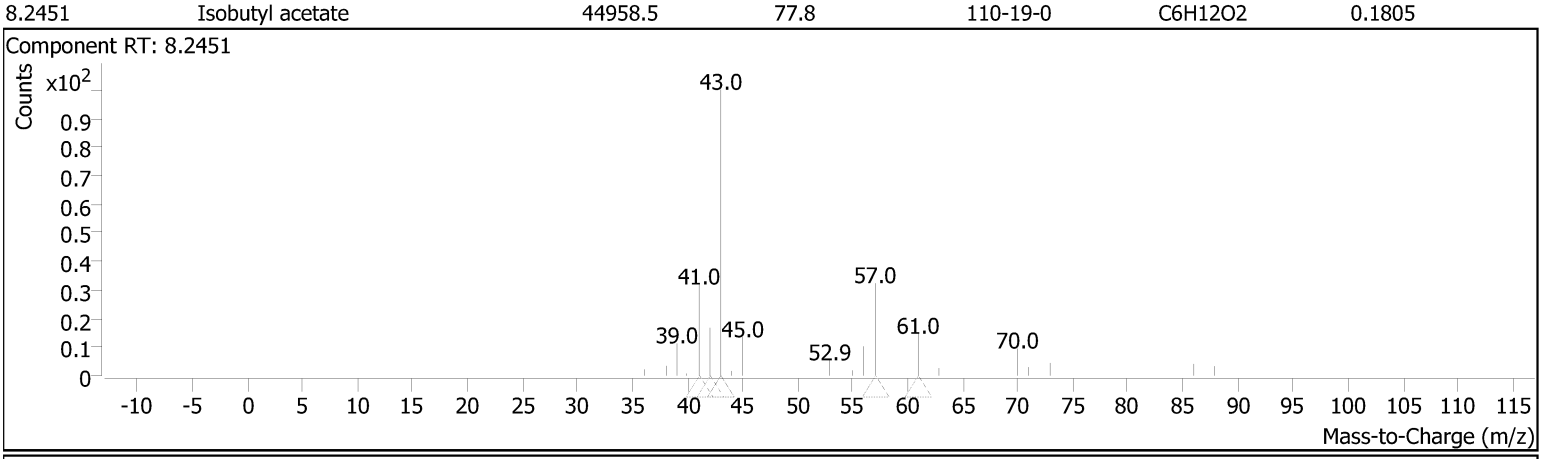



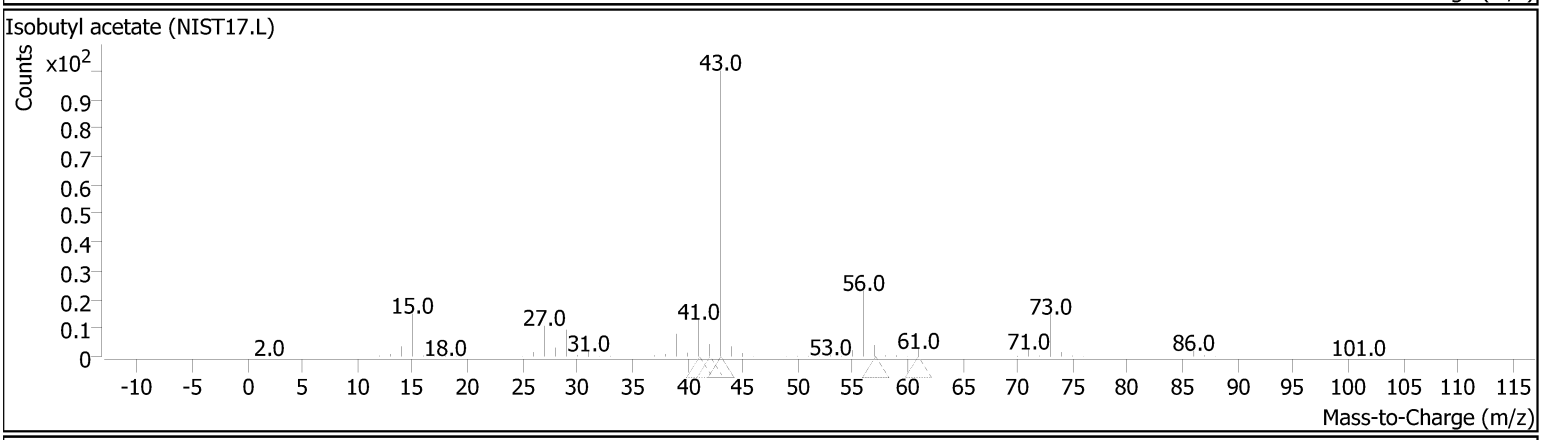



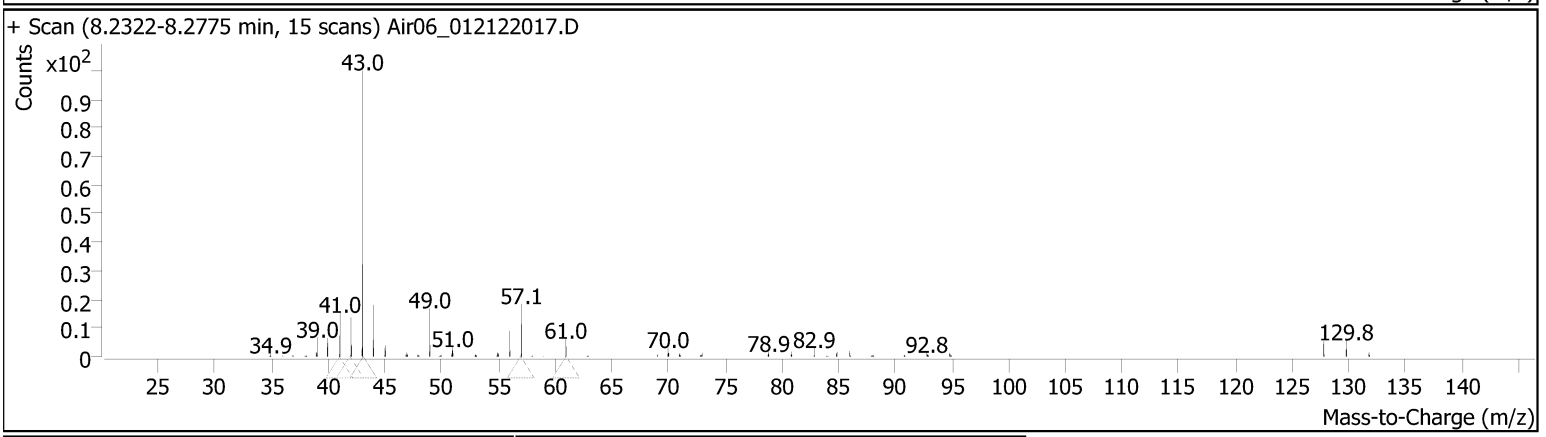



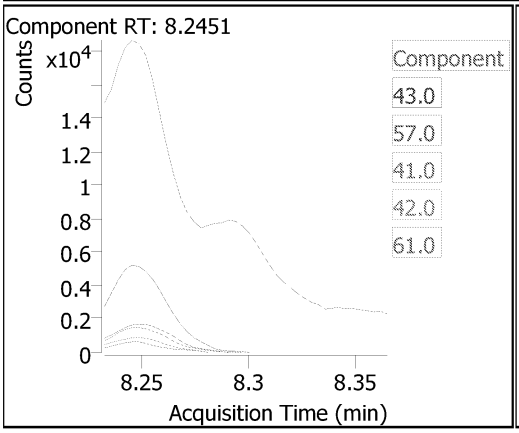



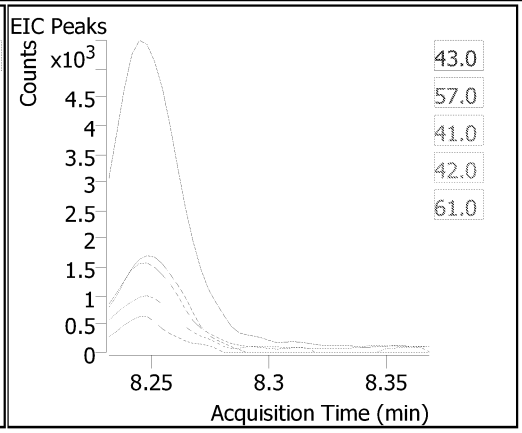
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.2451 | Isobutyl acetate | 44958.5 | 77.8 | 110-19-0 | C6H12O2 | 0.1805 |

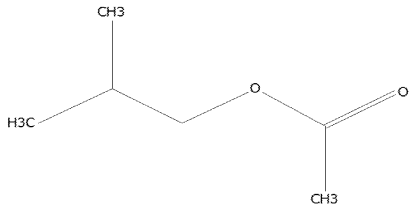


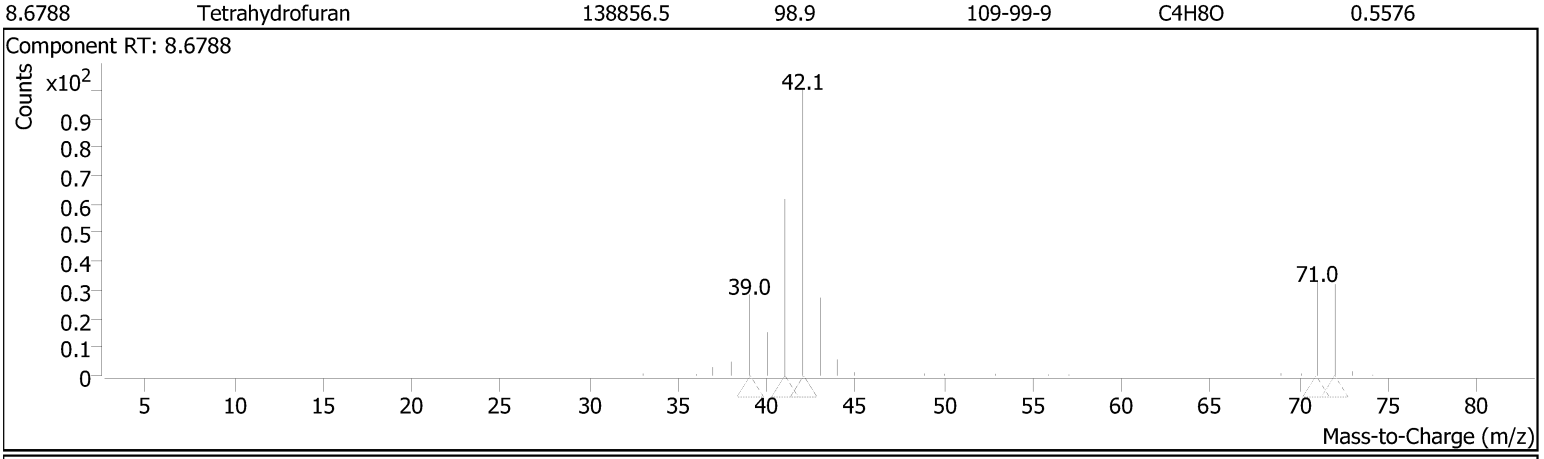



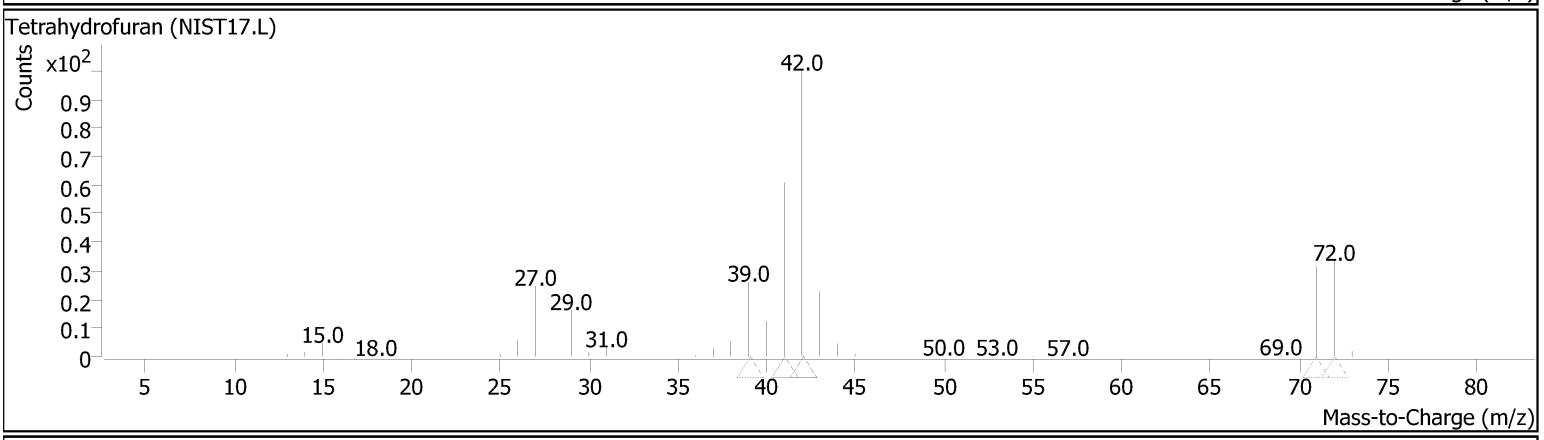



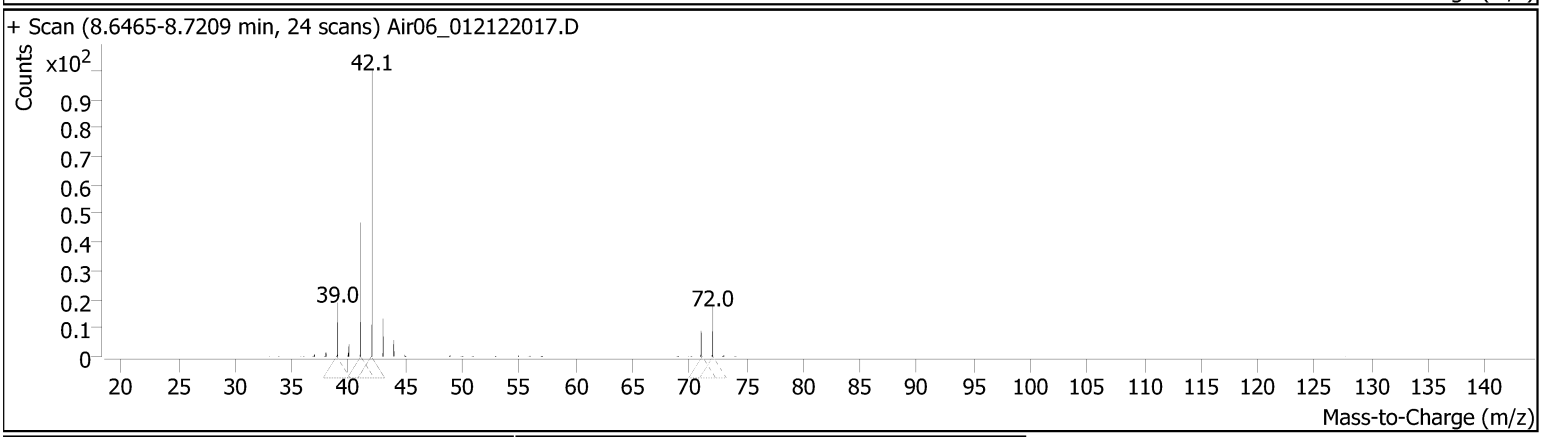



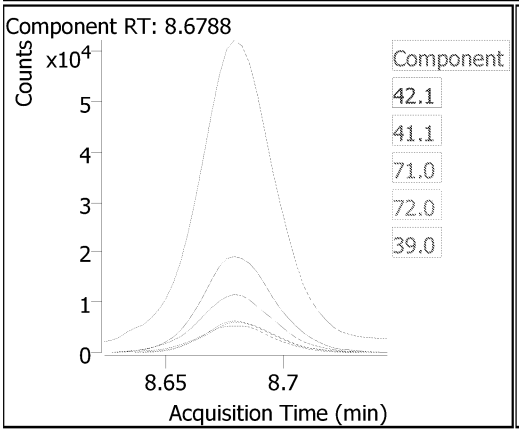



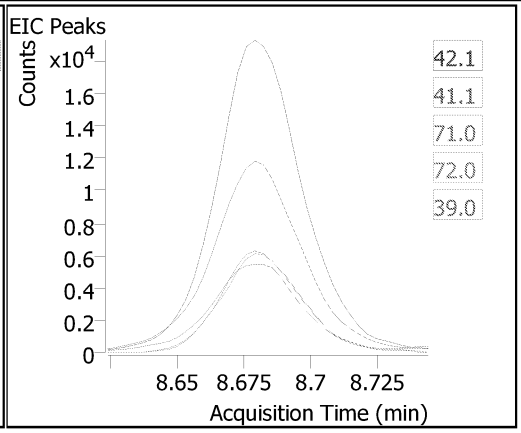
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.6788 | Tetrahydrofuran | 138856.5 | 98.9 | 109-99-9 | C4H8O | 0.5576 |

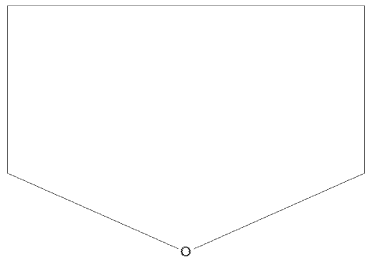


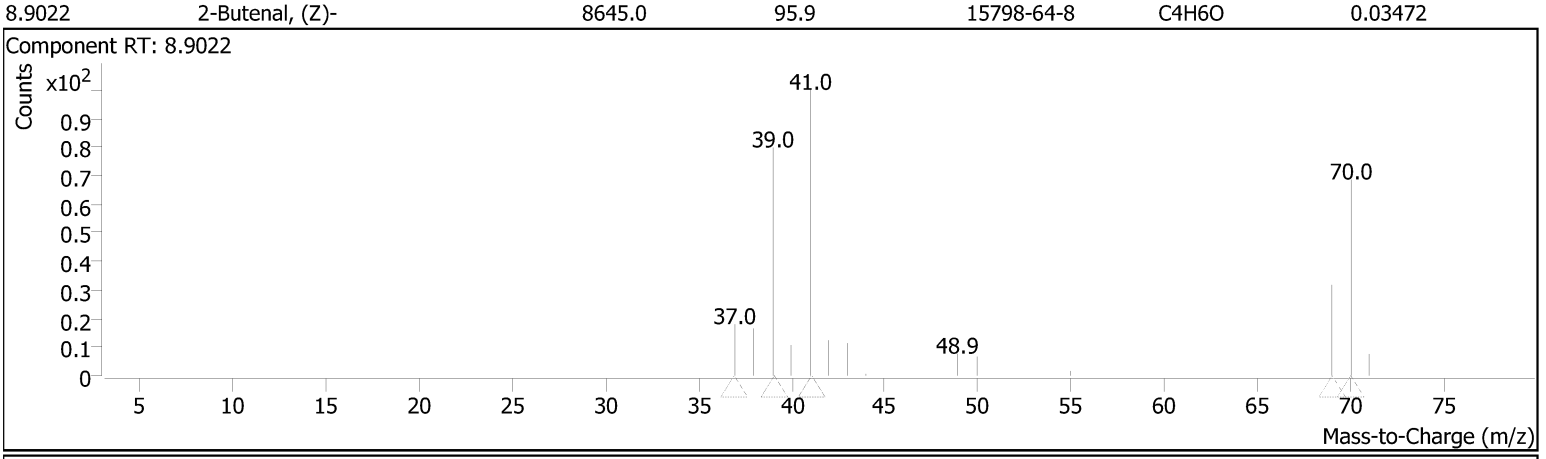



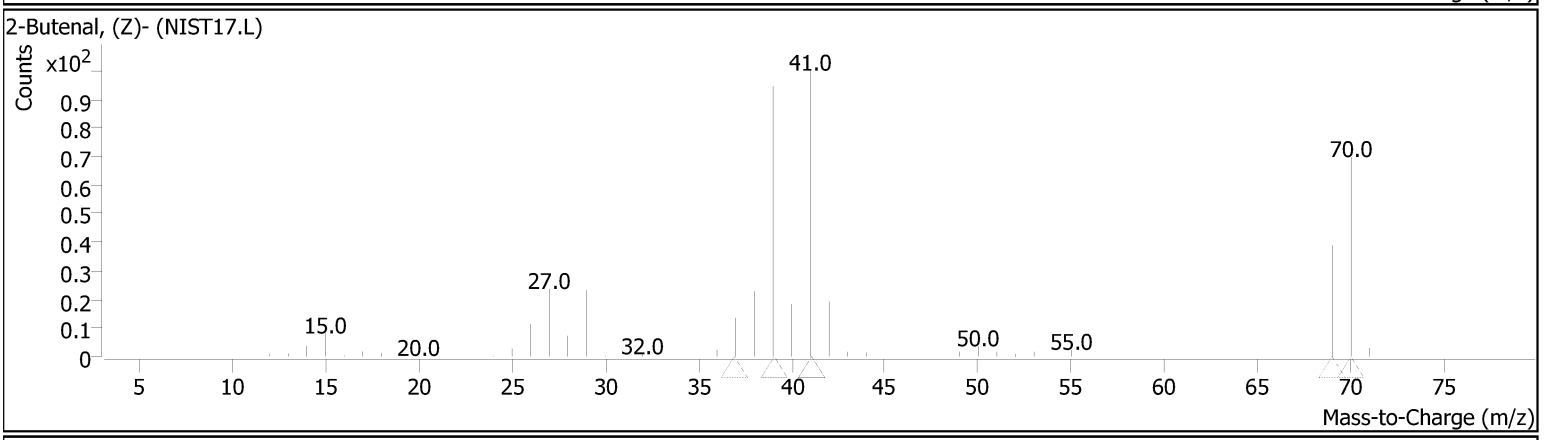



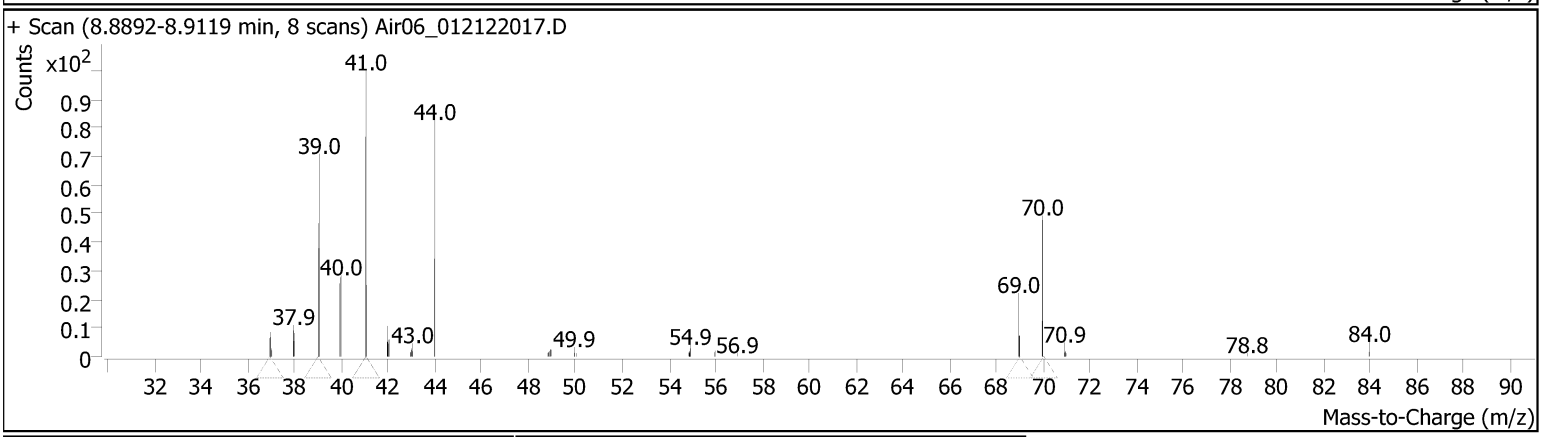



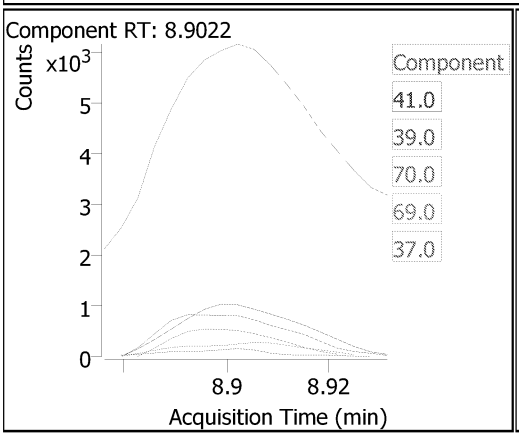



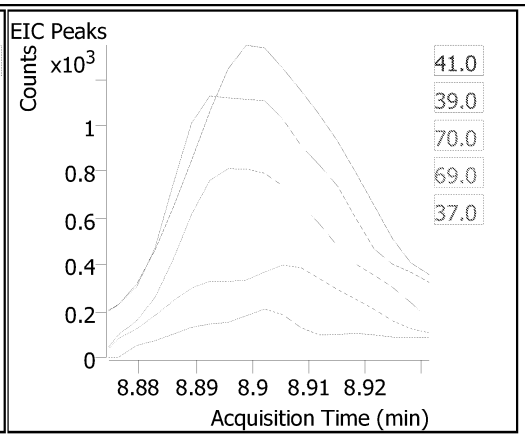
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.9022 | 2-Butenal, (Z)- | 8645.0 | 95.9 | 15798-64-8 | C4H6O | 0.03472 |

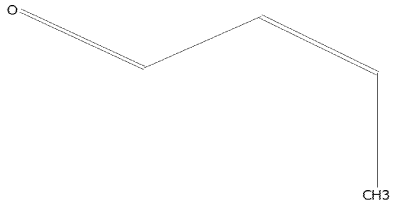


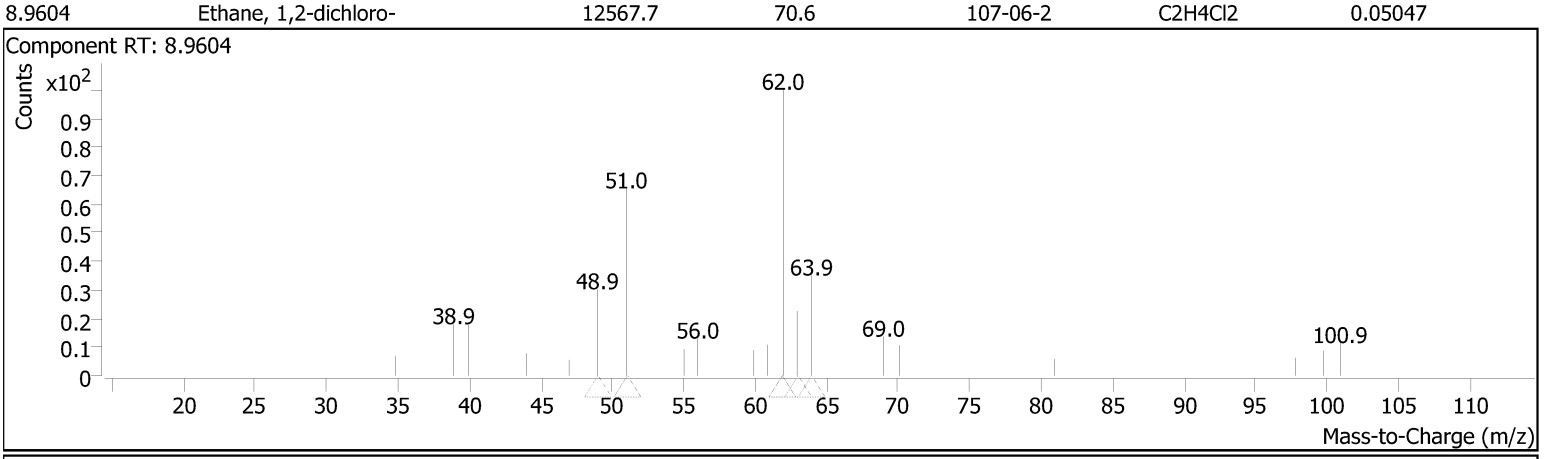



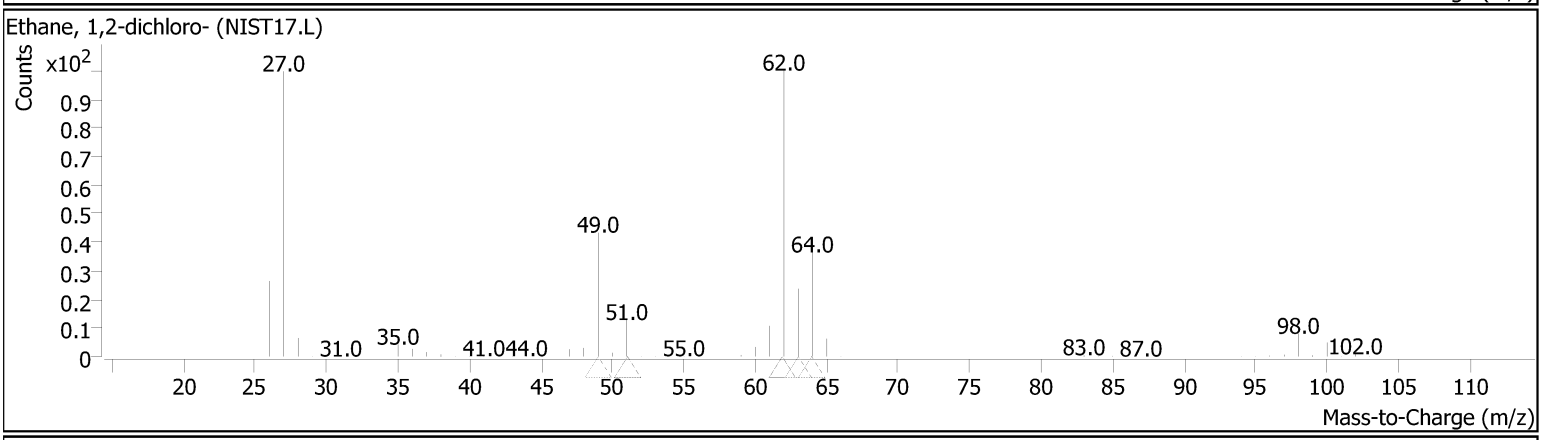



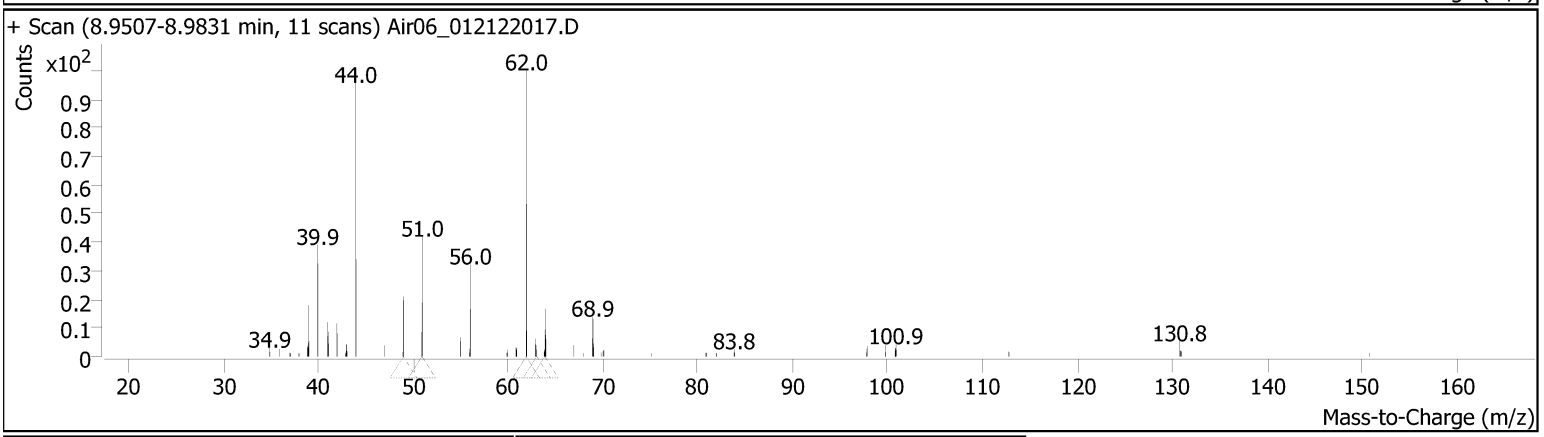



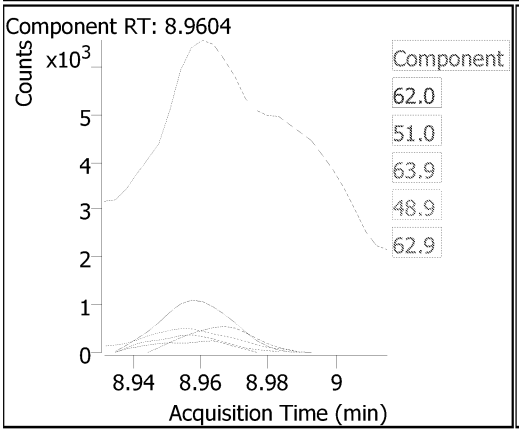



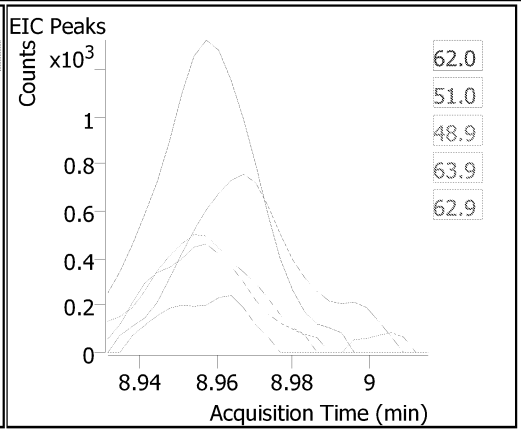
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.9604 | Ethane, 1,2-dichloro- | 12567.7 | 70.6 | 107-06-2 | C2H4Cl2 | 0.05047 |



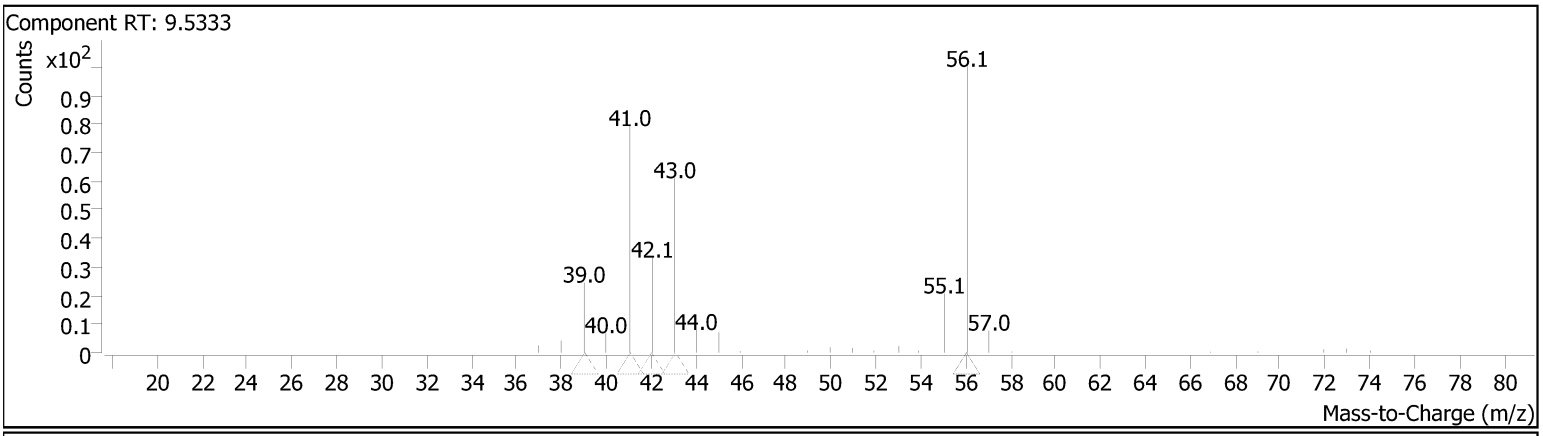



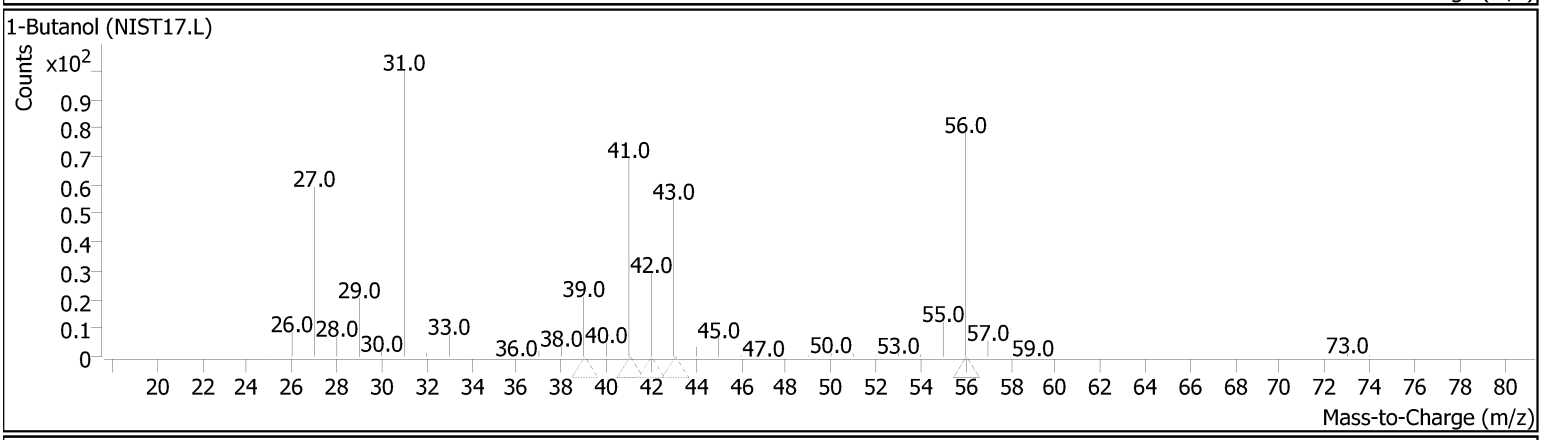



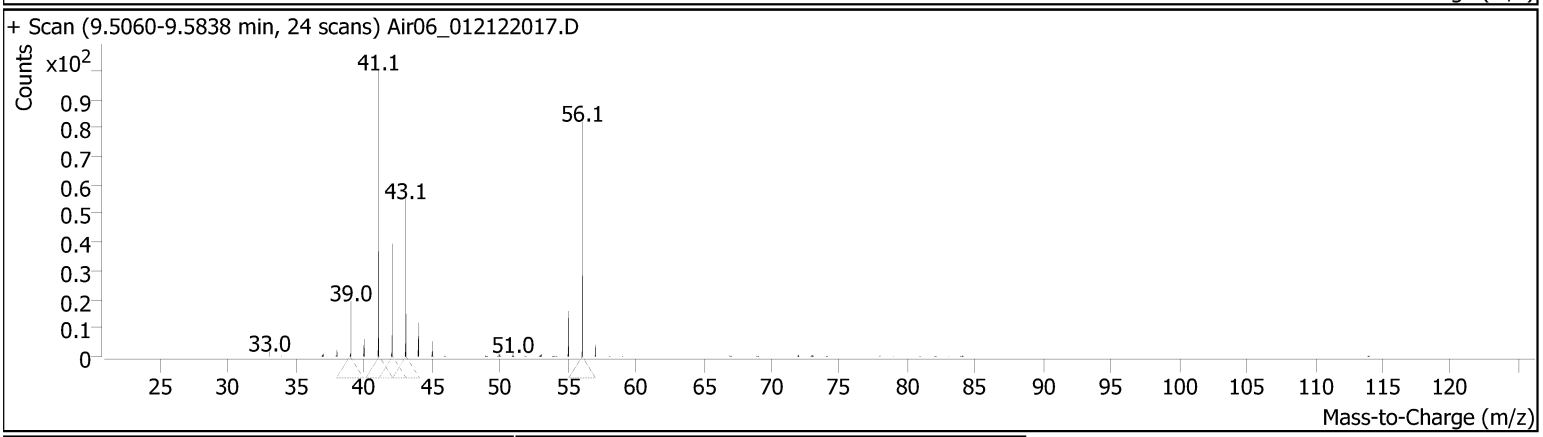



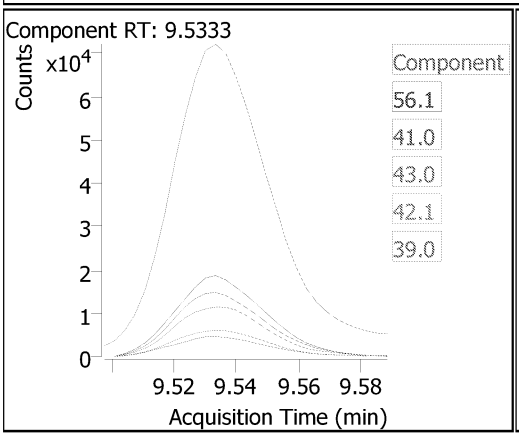


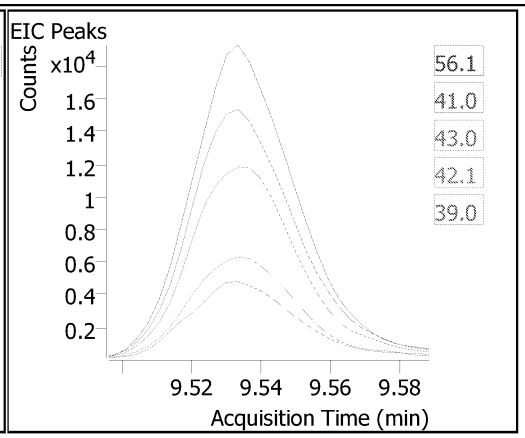

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.5333 | 1-Butanol | 151549.4 | 98.4 | 71-36-3 | C4H10O | 0.373 |

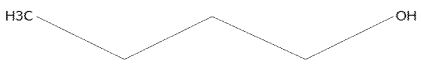


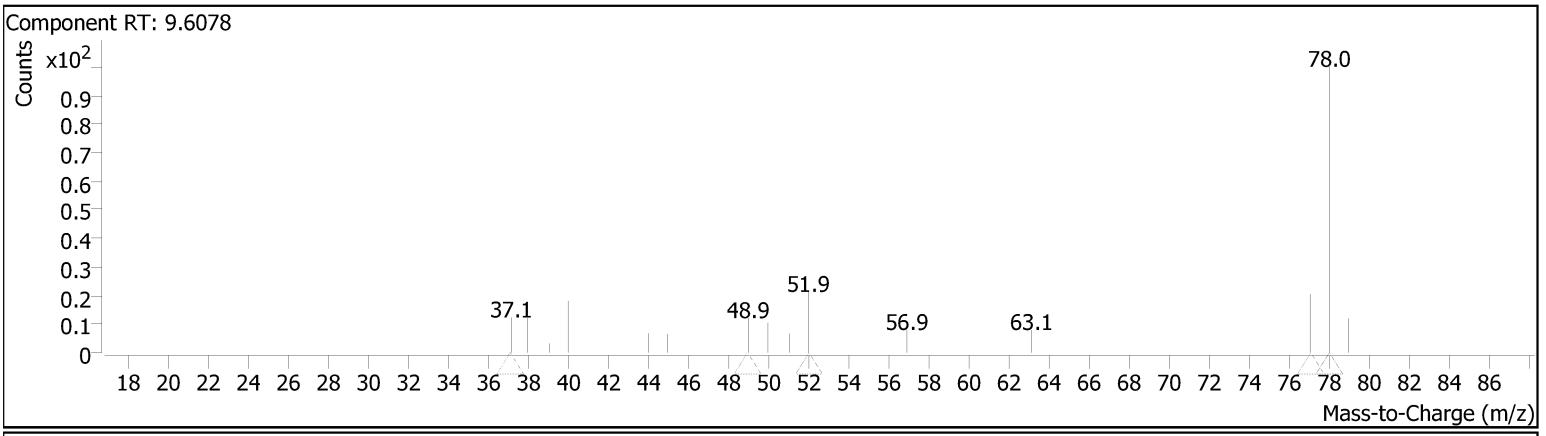



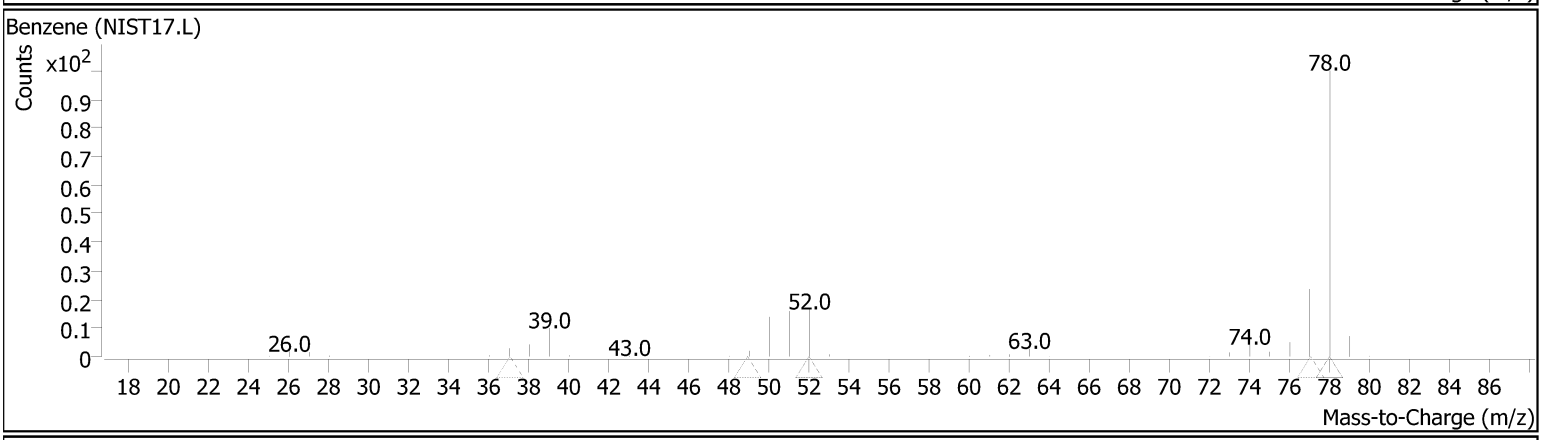



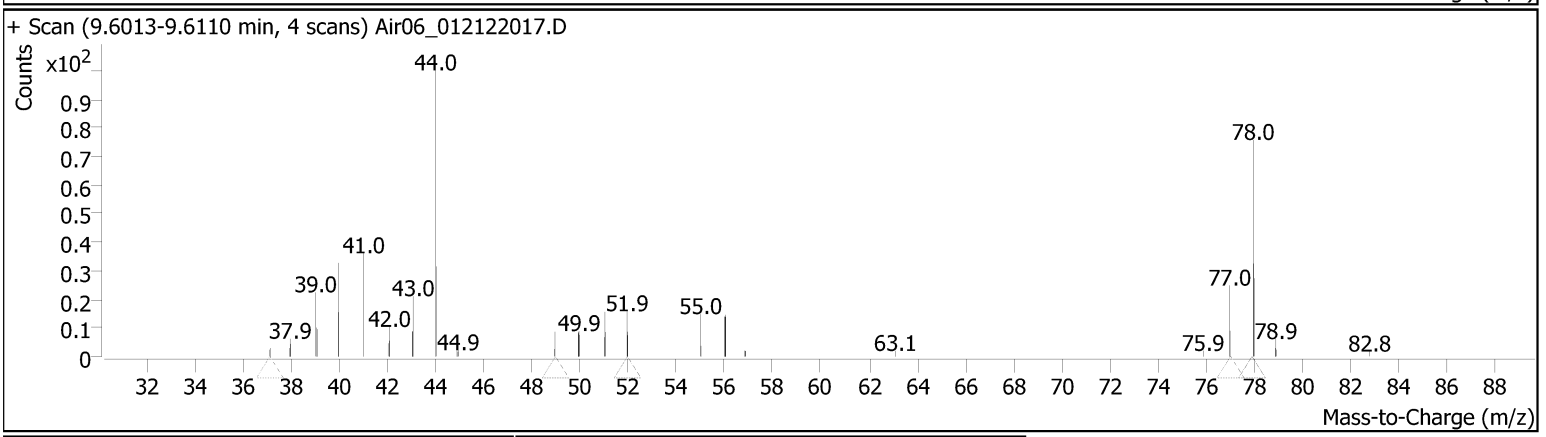



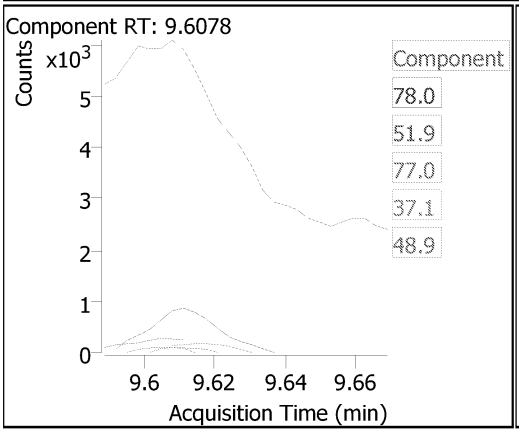



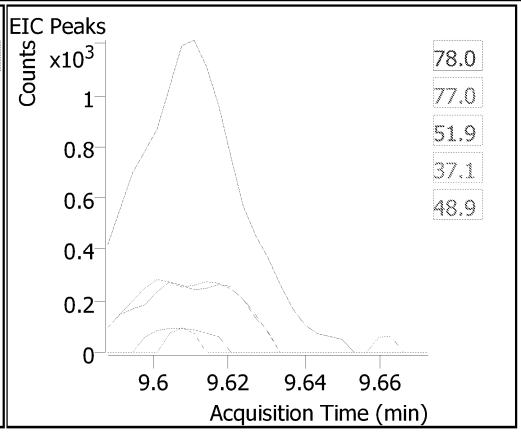
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.6078 | Benzene | 8965.7 | 79.7 | 71-43-2 | C6H6 | 0.02207 |

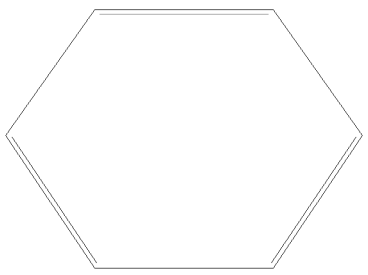


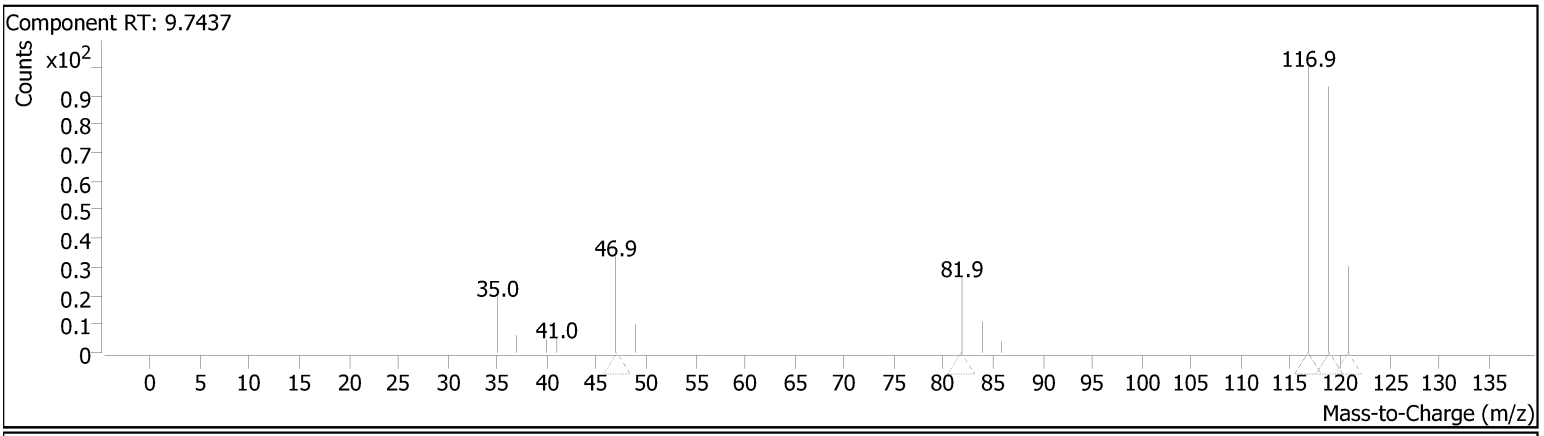



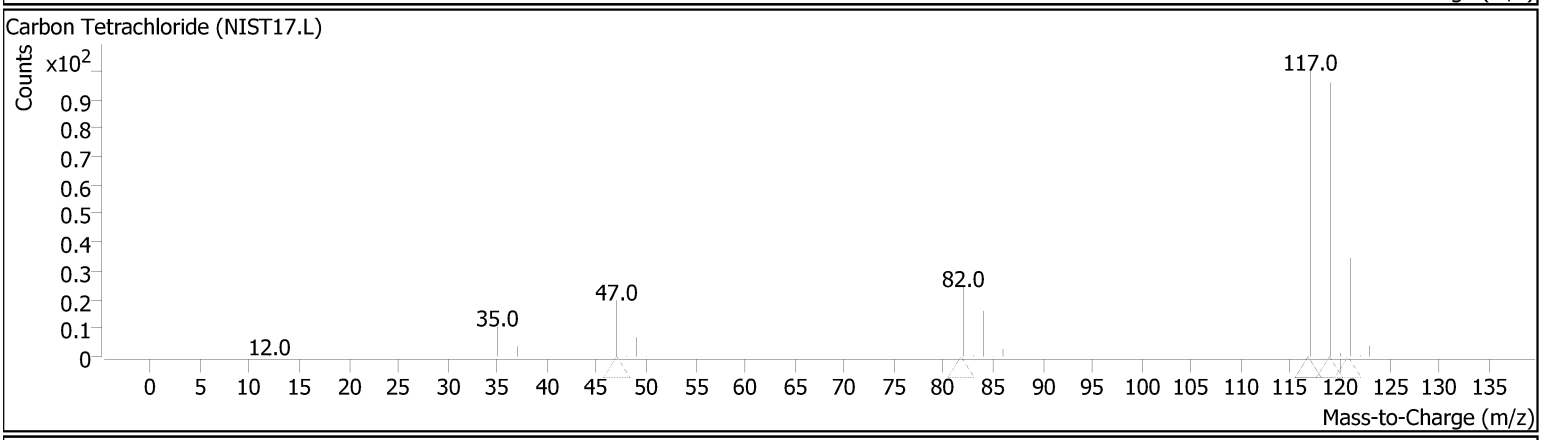



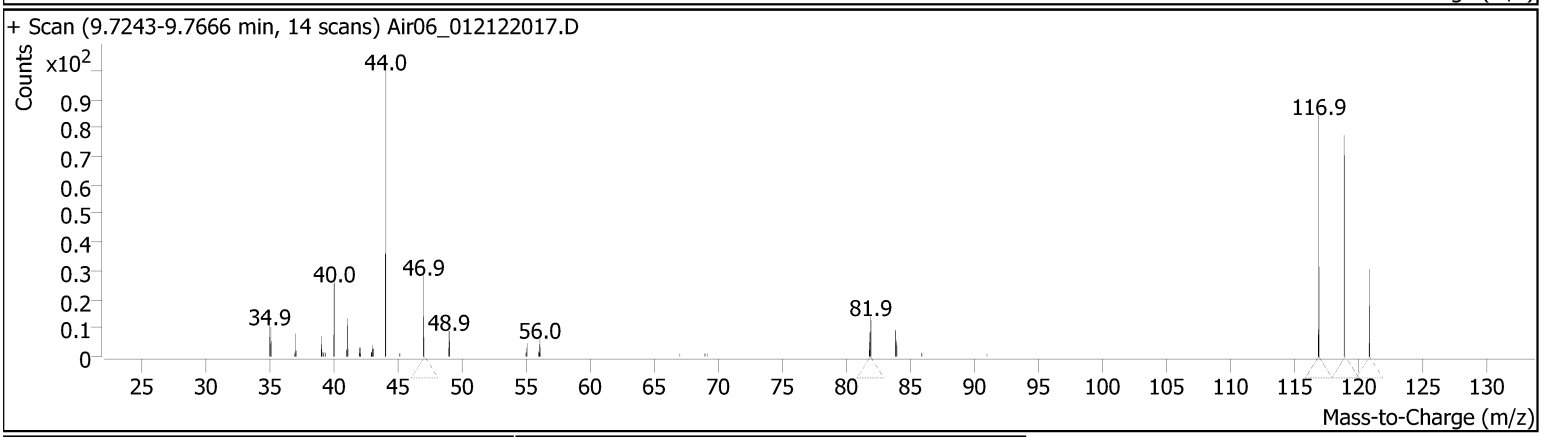



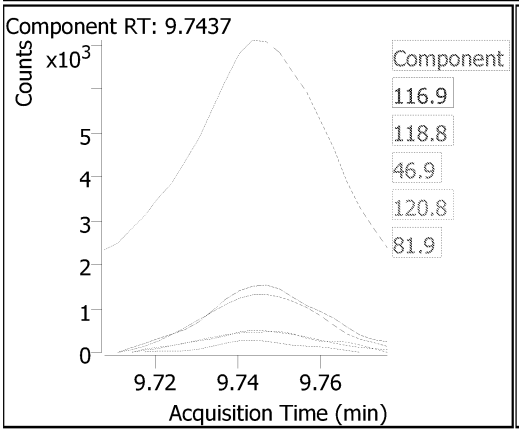



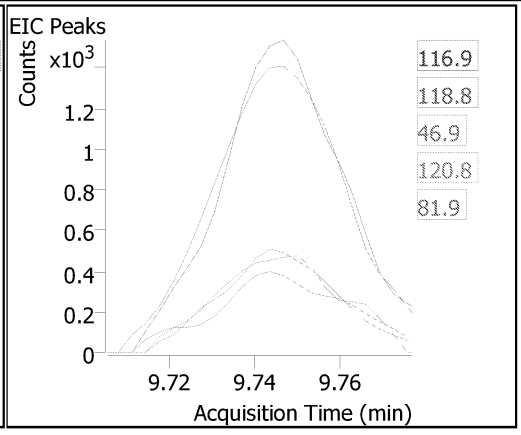
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.7437 | Carbon Tetrachloride | 10044.5 | 95.7 | 56-23-5 | CCl4 | 0.02473 |

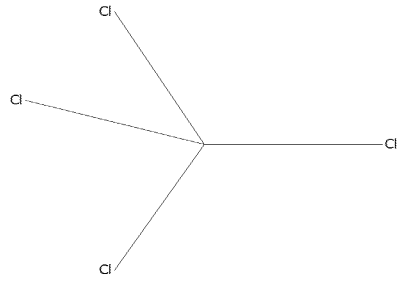


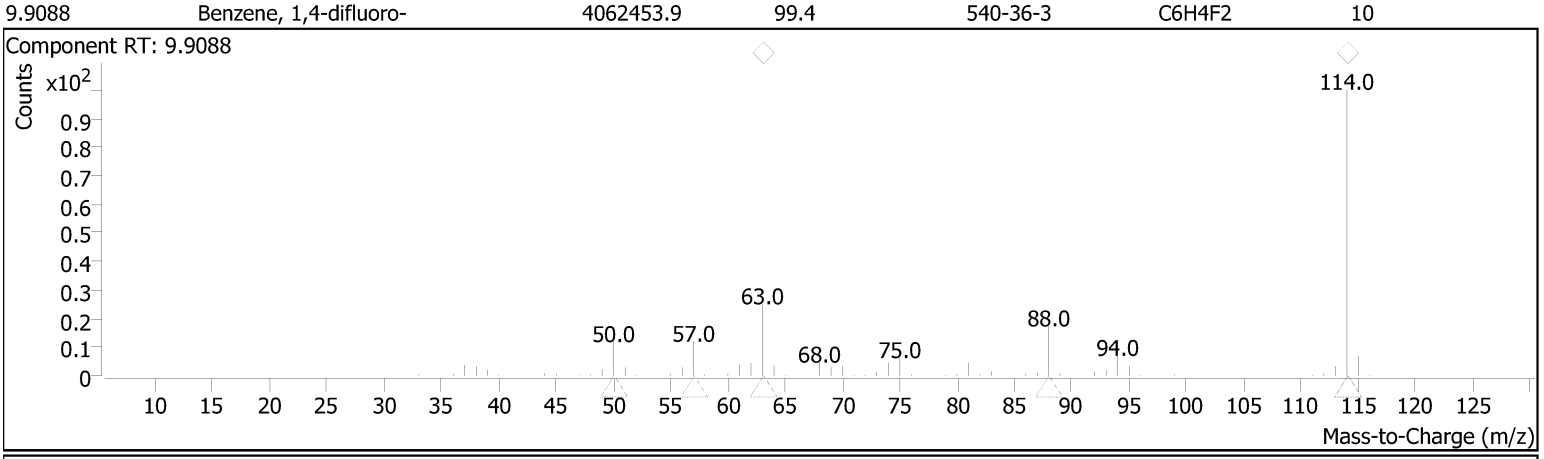



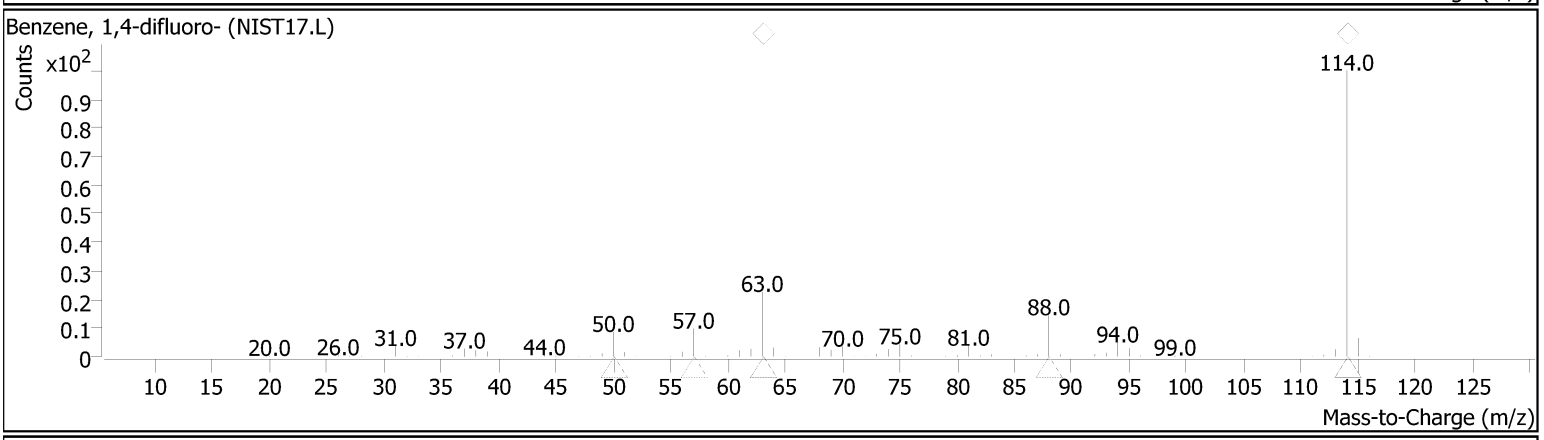



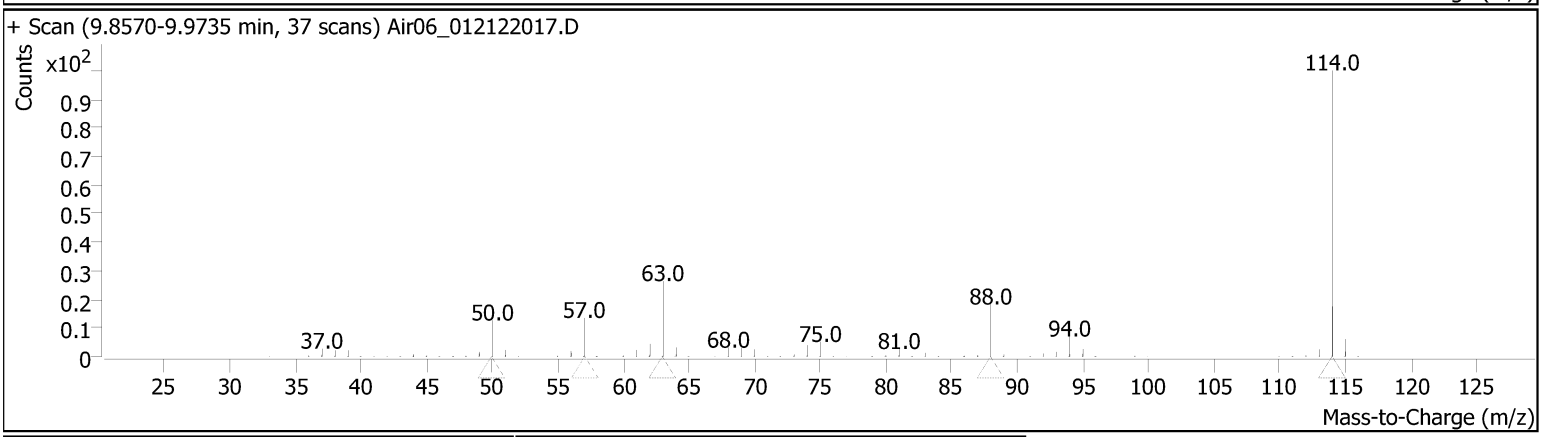



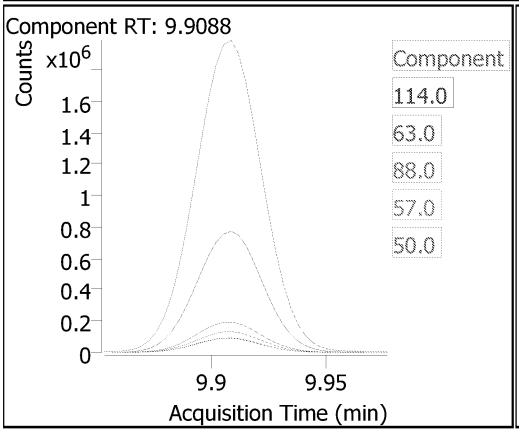



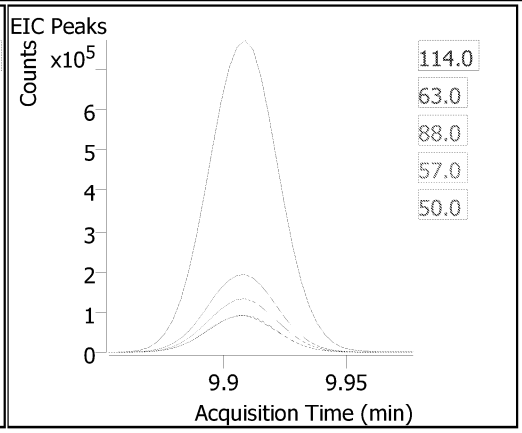
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.9088 | Benzene, 1,4-difluoro- | 4062453.9 | 99.4 | 540-36-3 | C6H4F2 | 10 |

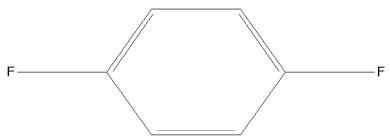


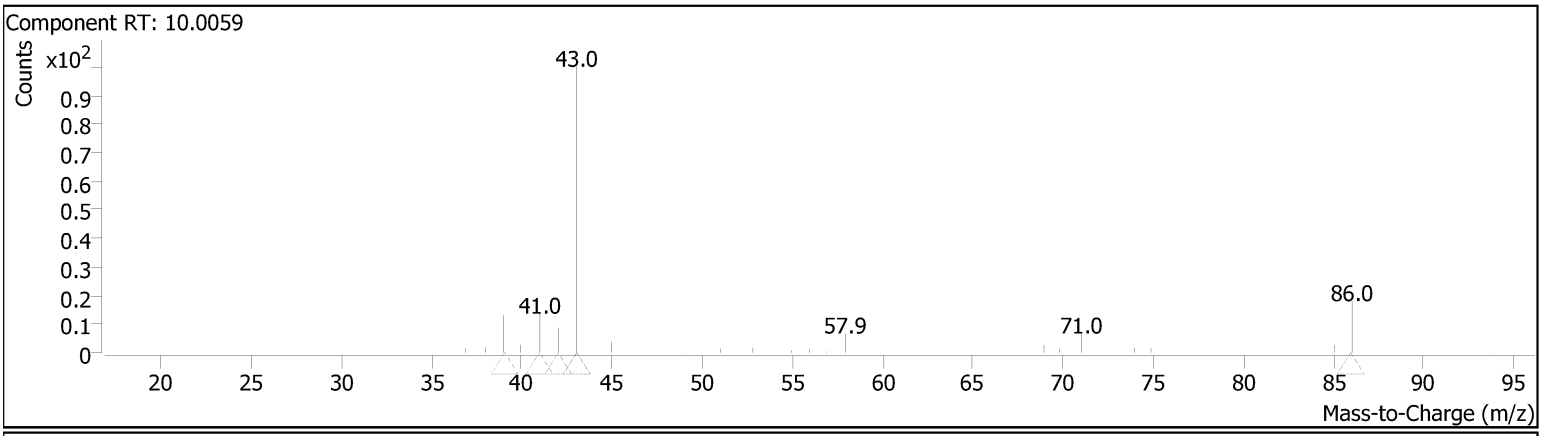



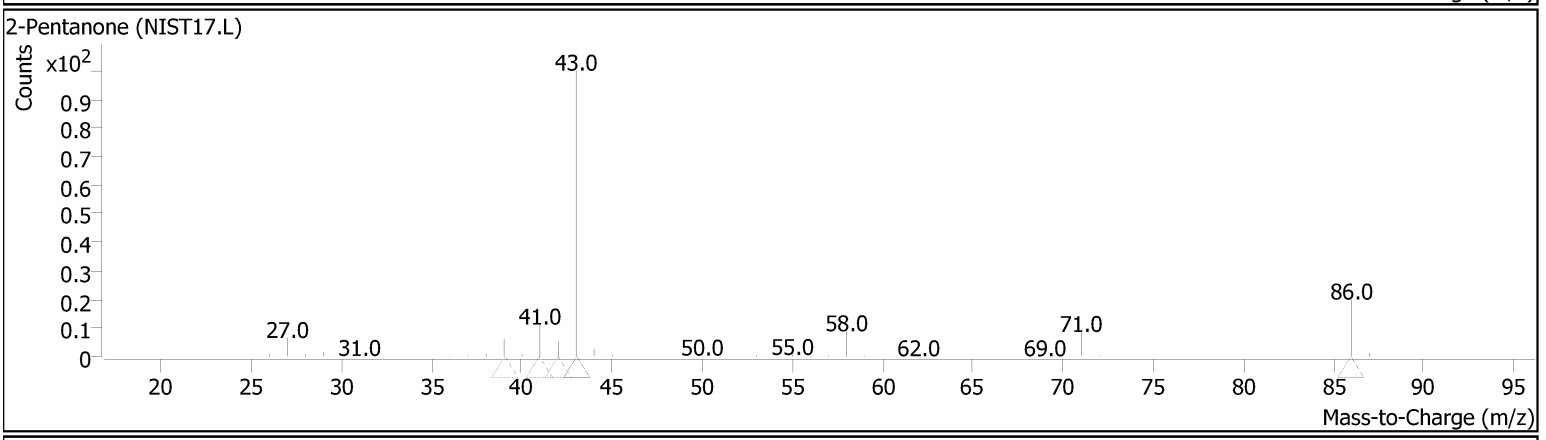



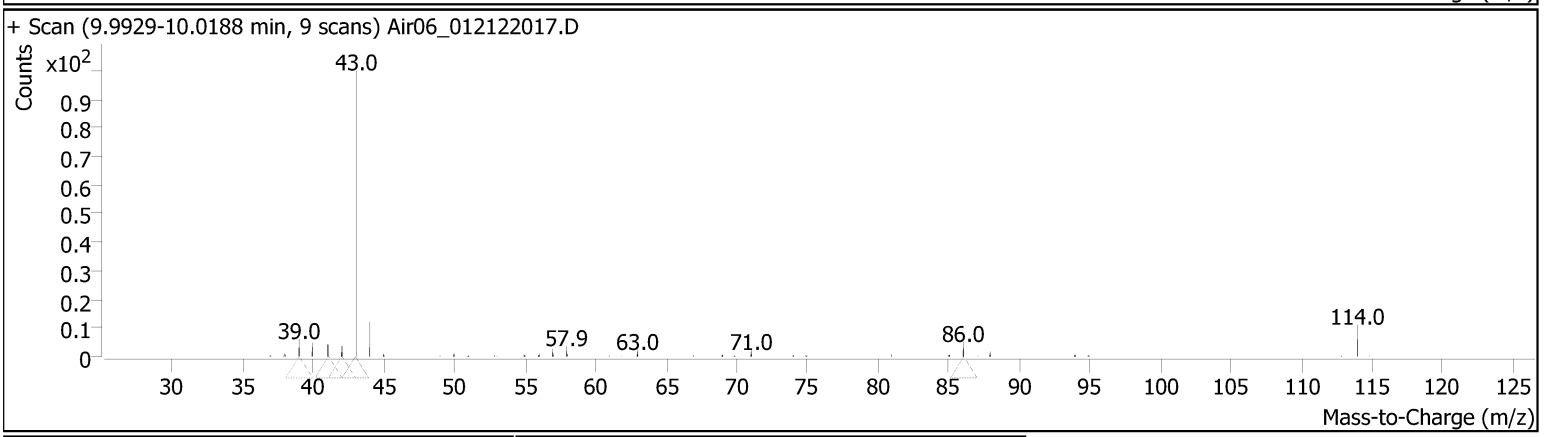



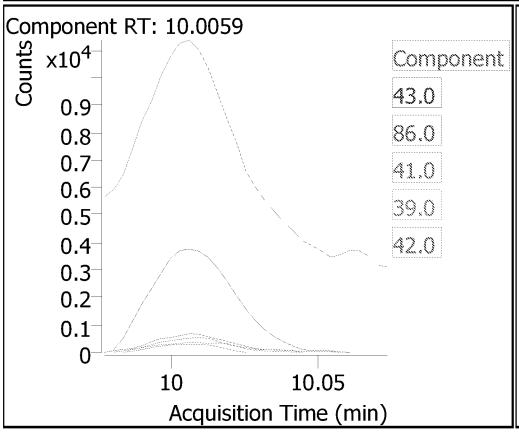



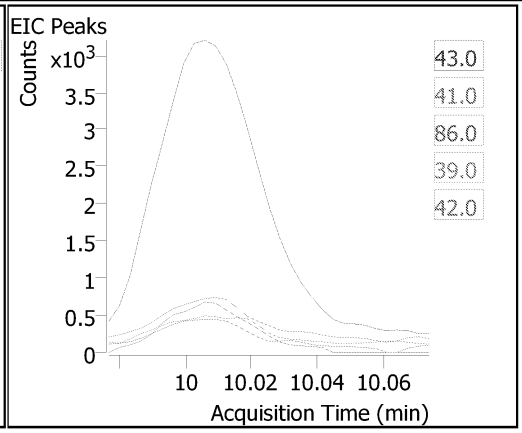
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.0059 | 2-Pentanone | 24365.5 | 86.7 | 107-87-9 | C5H10O | 0.05998 |

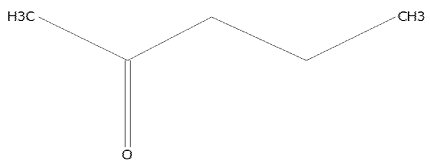


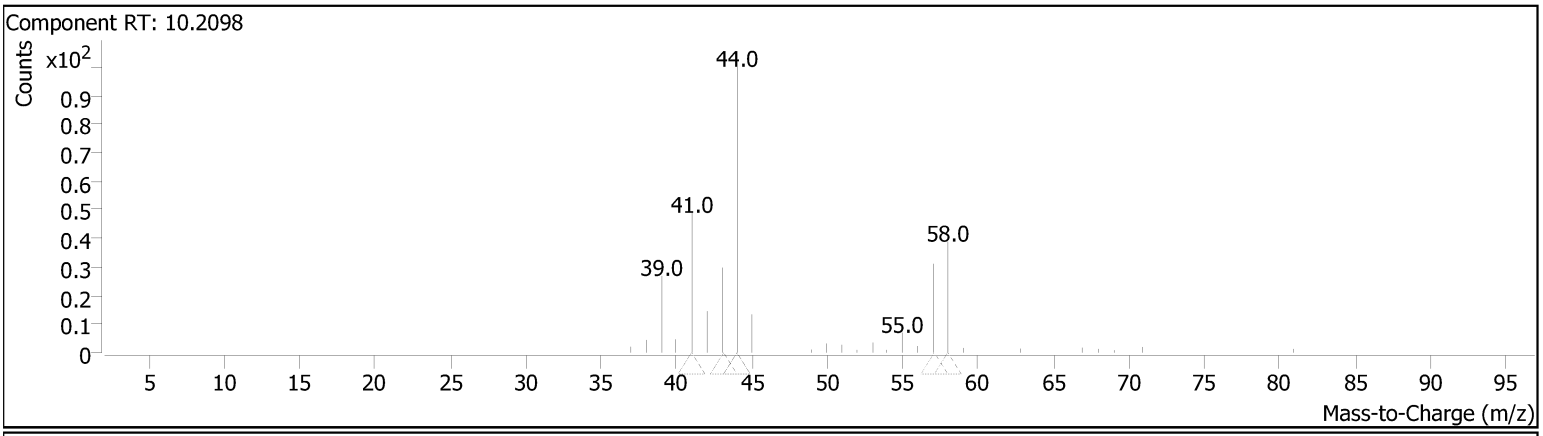



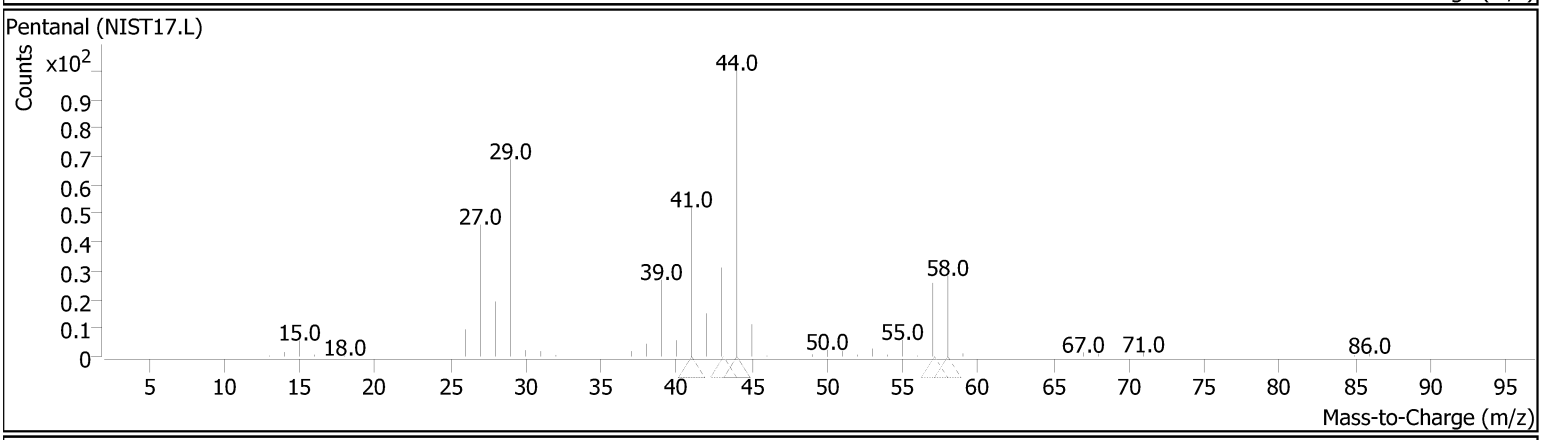



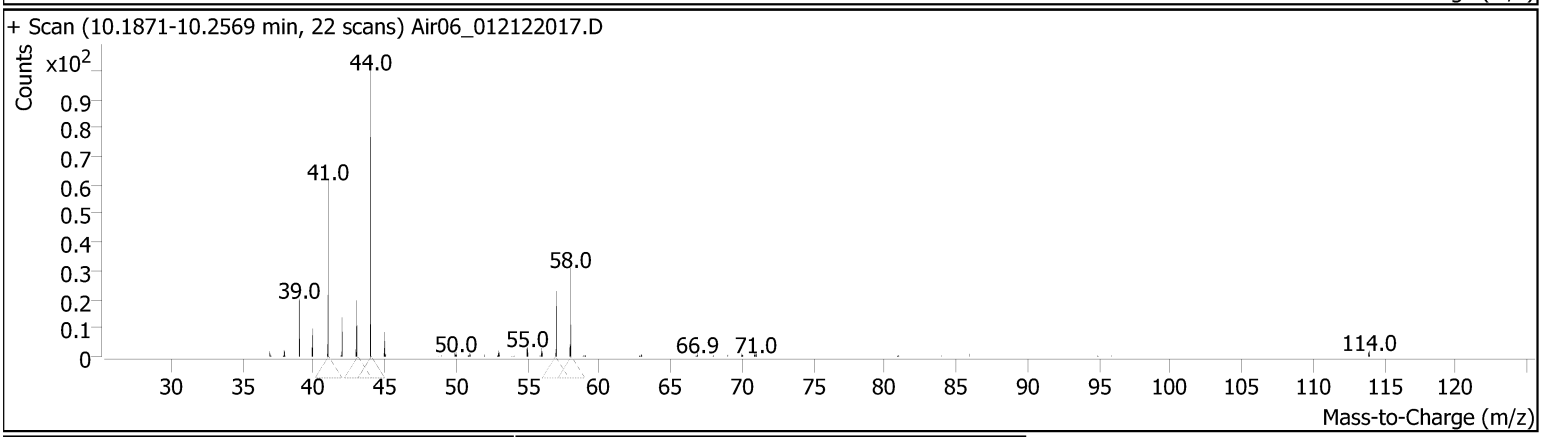



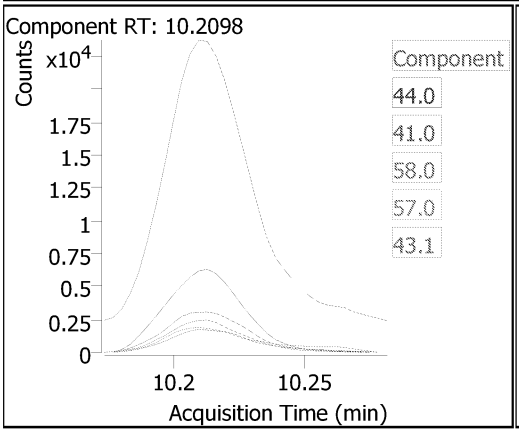



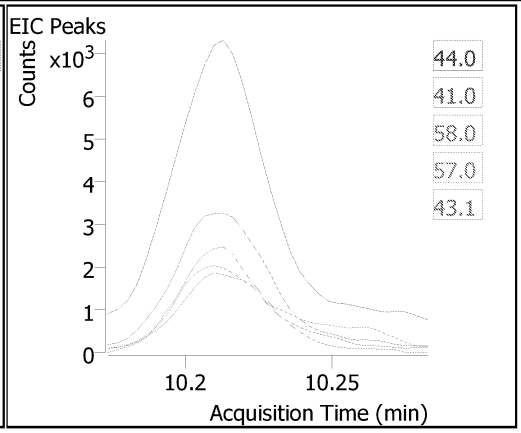
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.2098 | Pentanal | 47667.7 | 97.2 | 110-62-3 | C5H10O | 0.1173 |



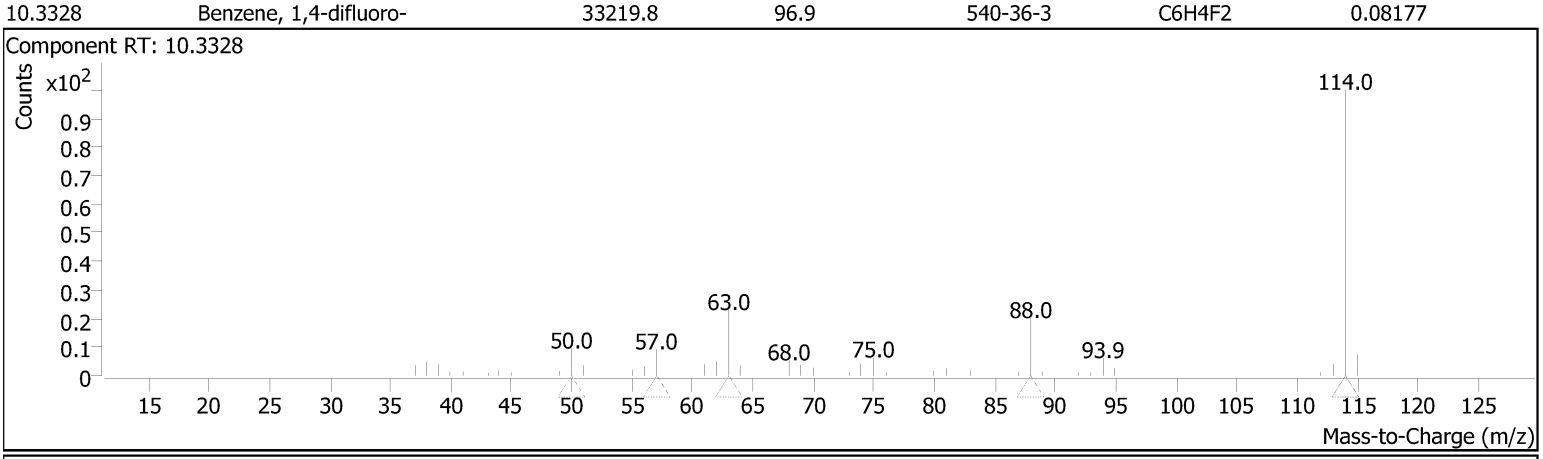



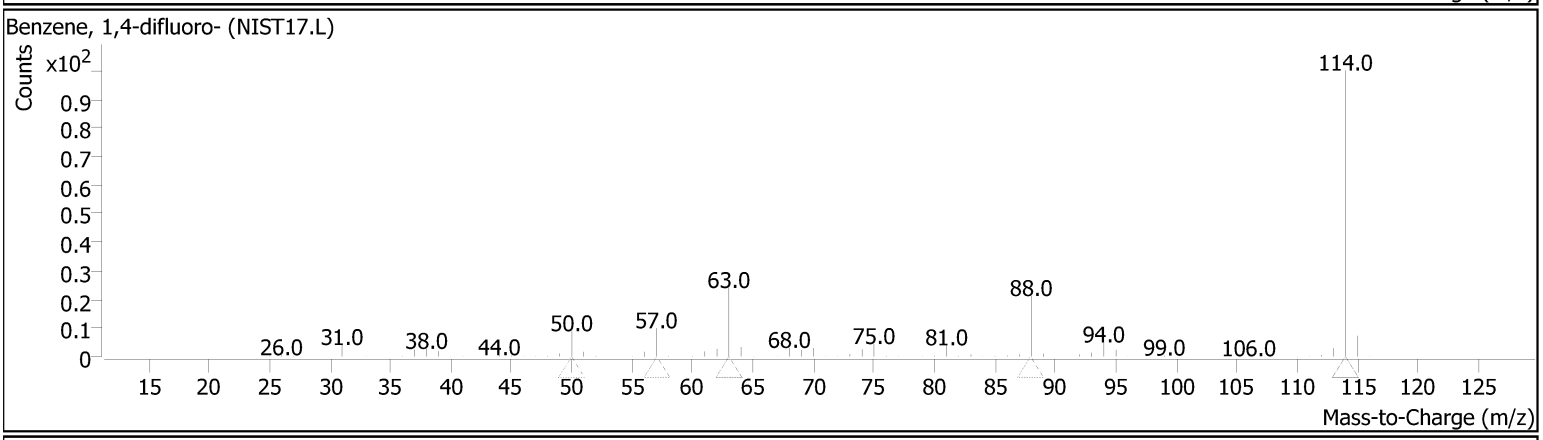



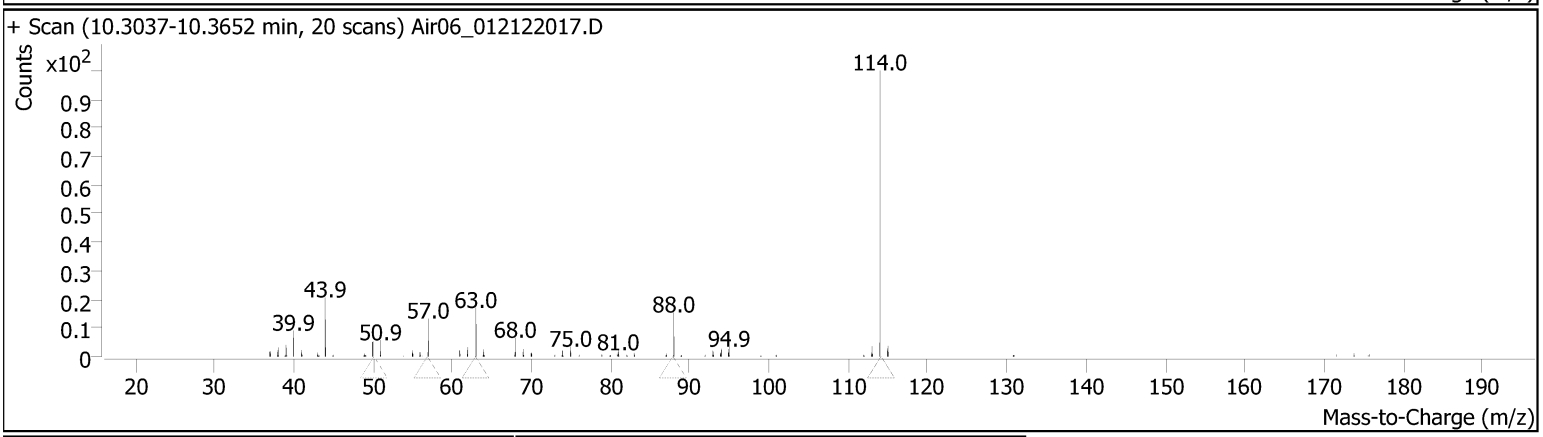



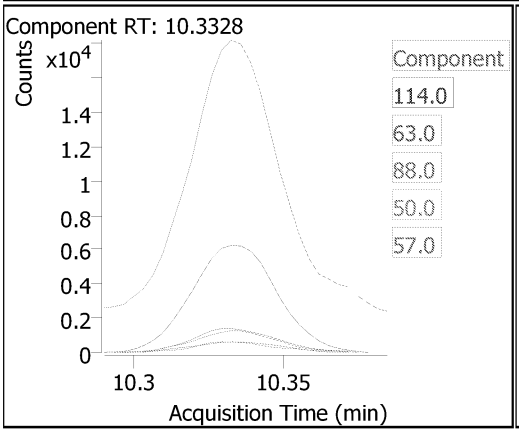


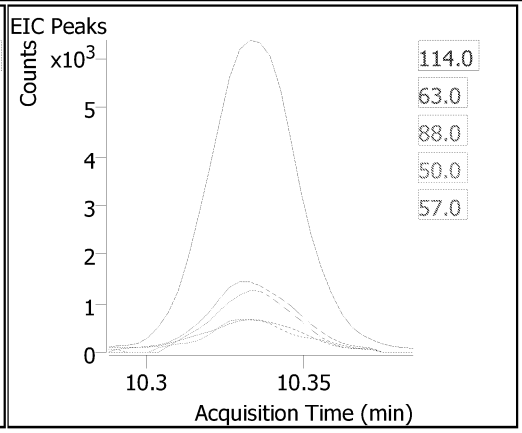

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.3328 | Benzene, 1,4-difluoro- | 33219.8 | 96.9 | 540-36-3 | C6H4F2 | 0.08177 |



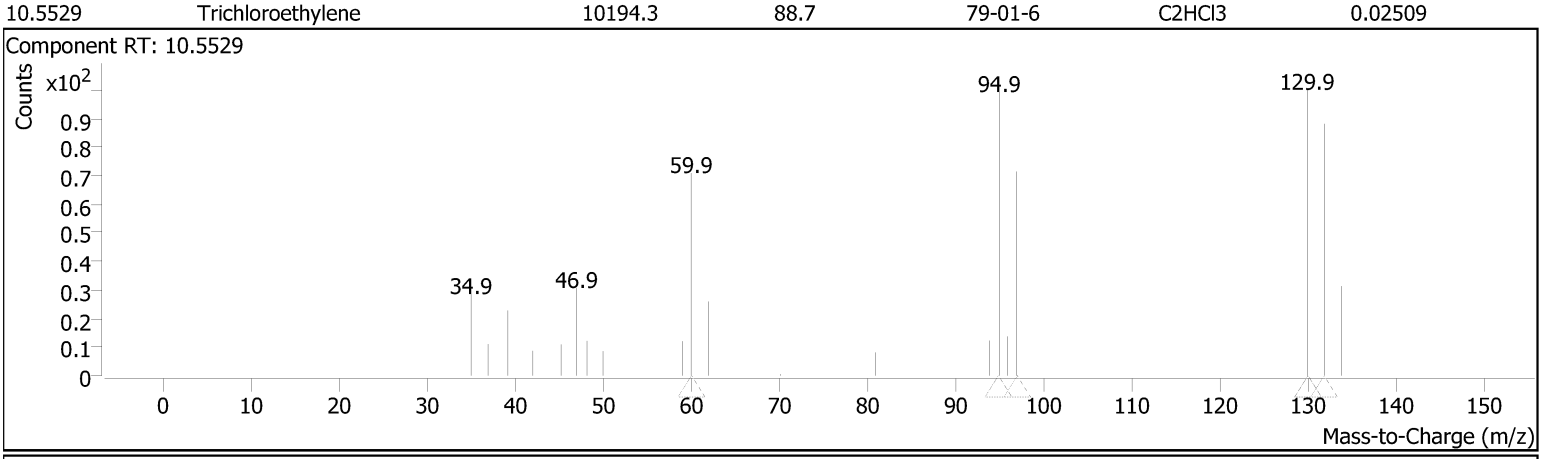



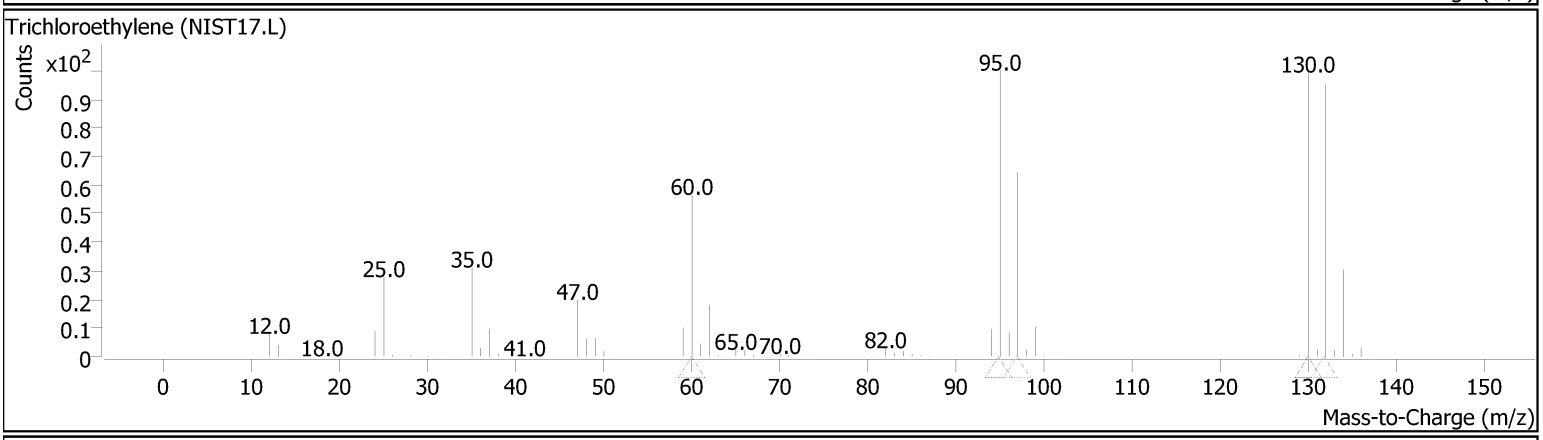



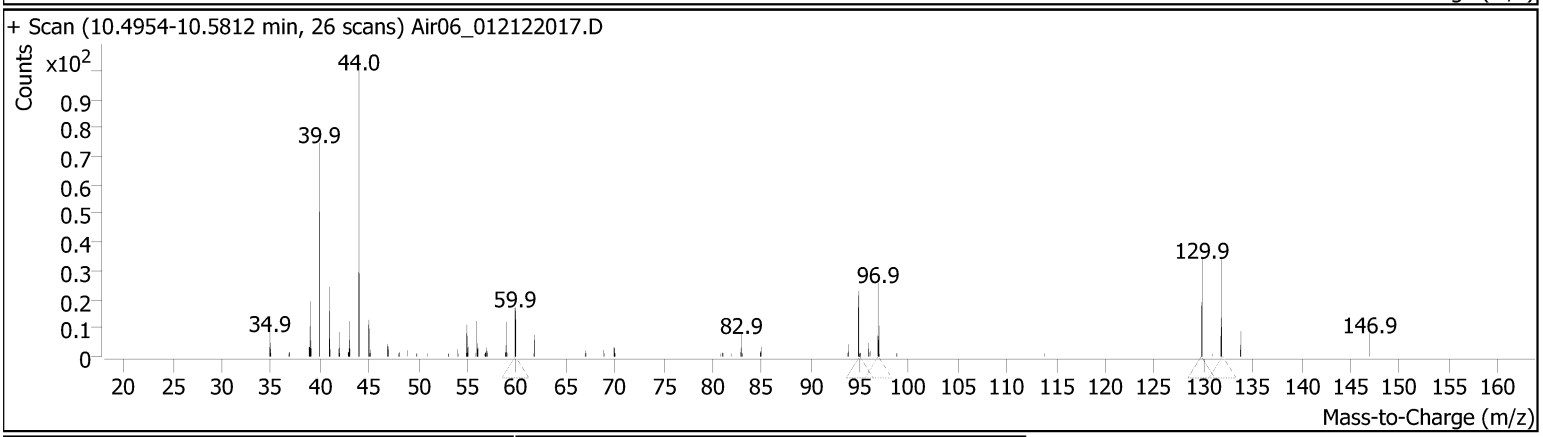



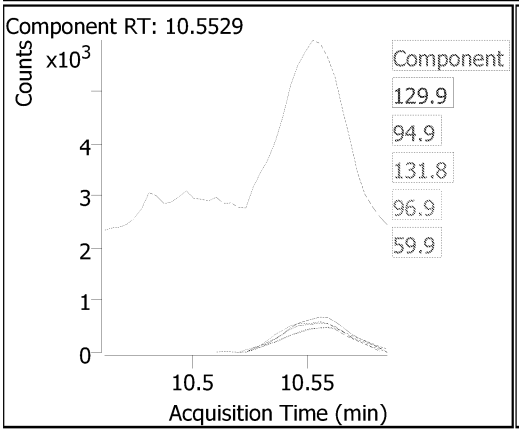


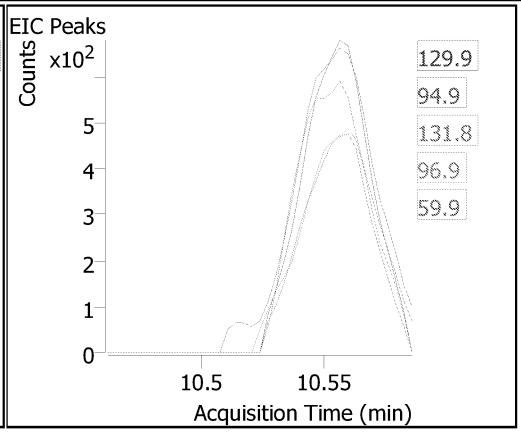

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.5529 | Trichloroethylene | 10194.3 | 88.7 | 79-01-6 | C2HCl3 | 0.02509 |

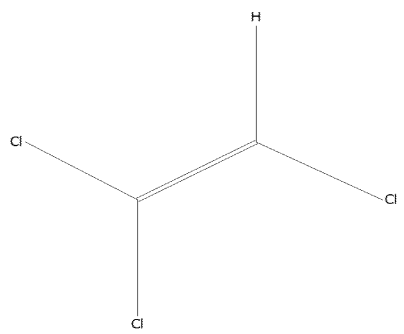


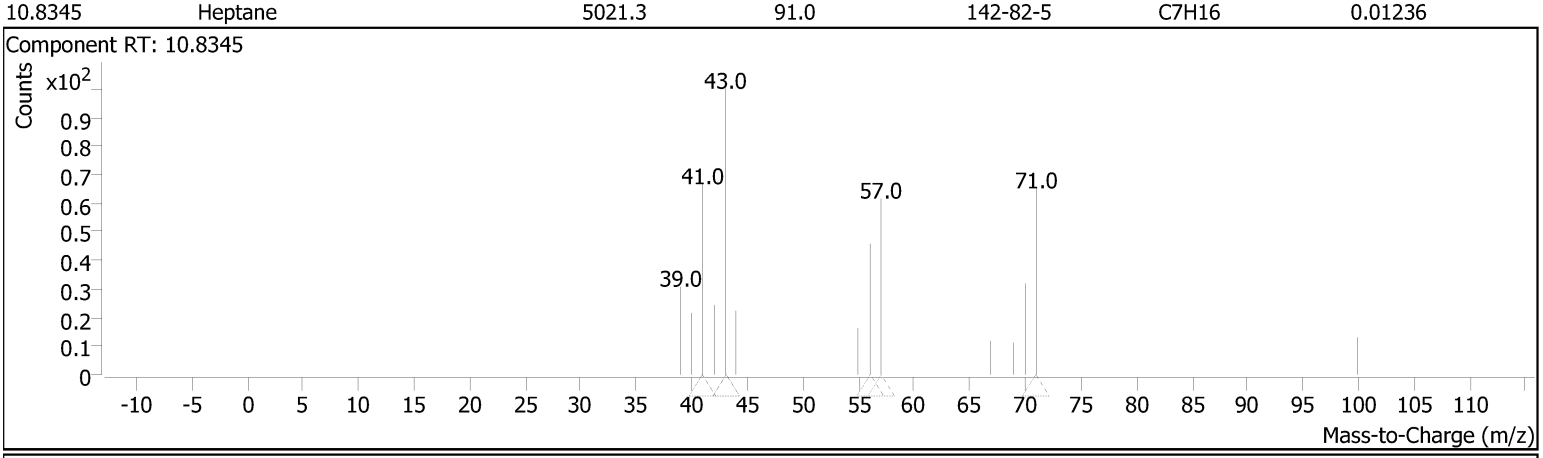



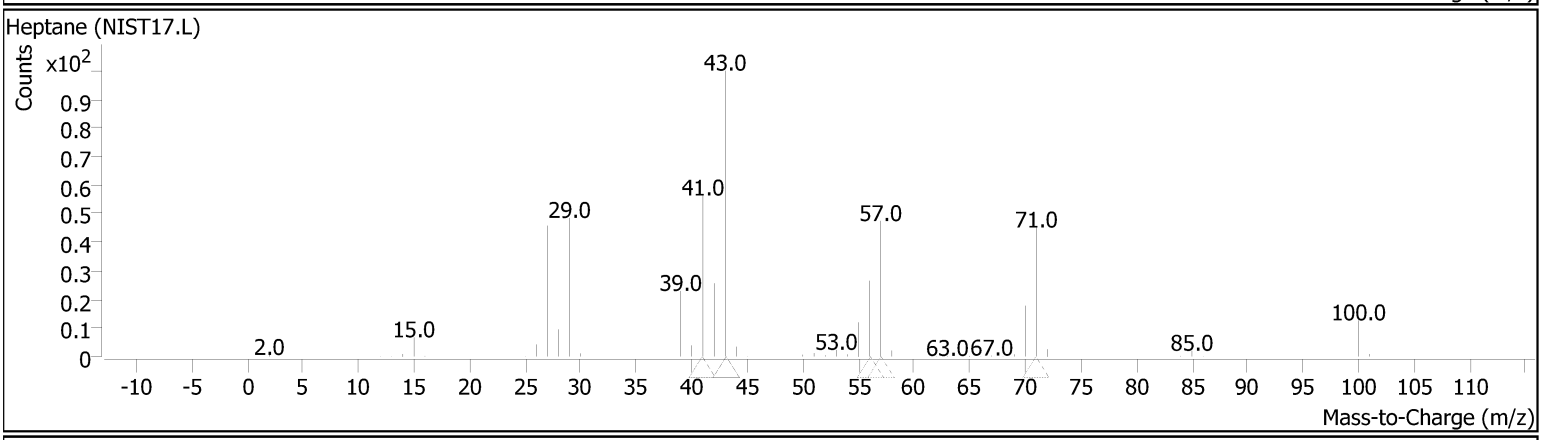



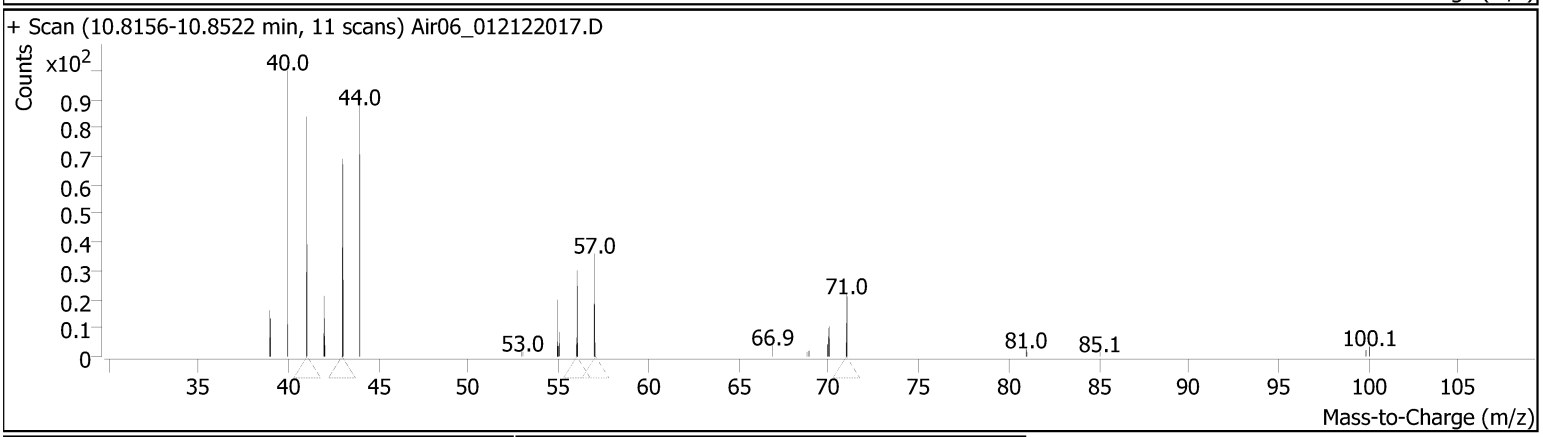



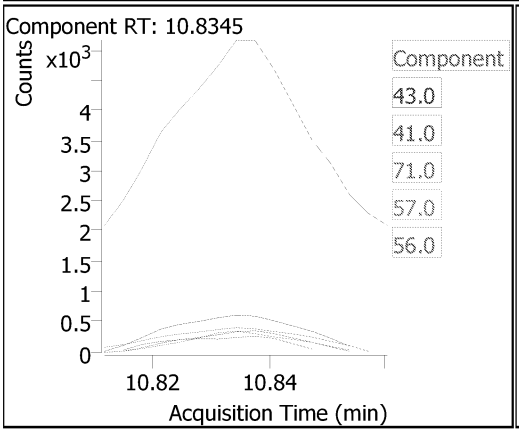



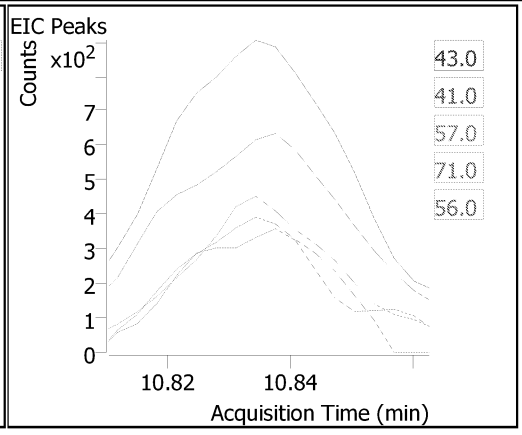
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.8345 | Heptane | 5021.3 | 91.0 | 142-82-5 | C7H16 | 0.01236 |



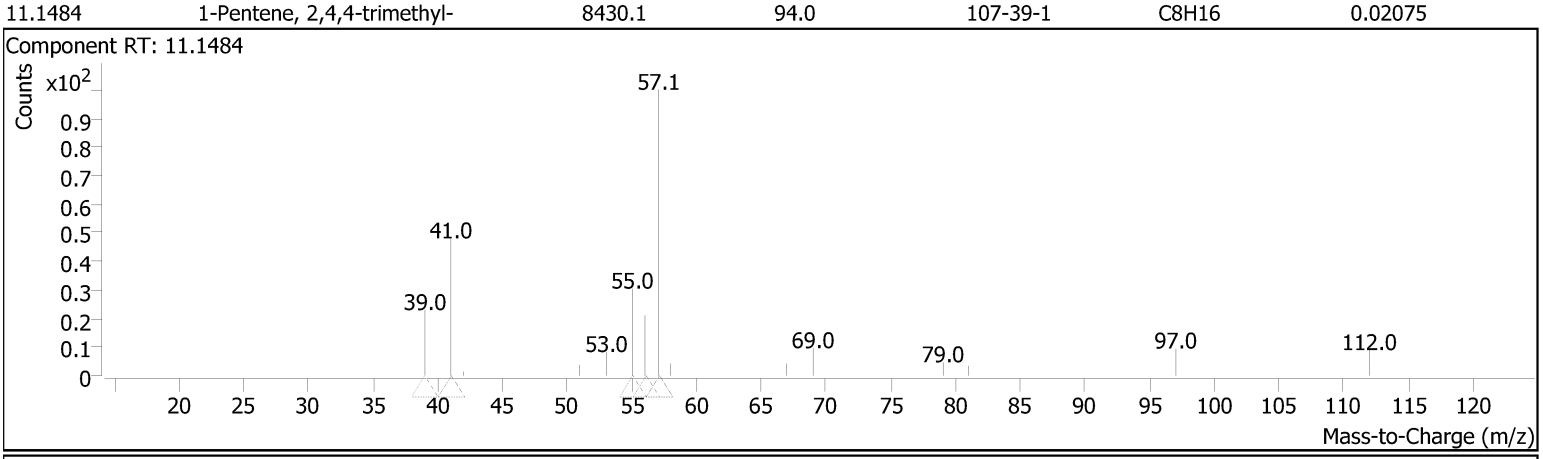



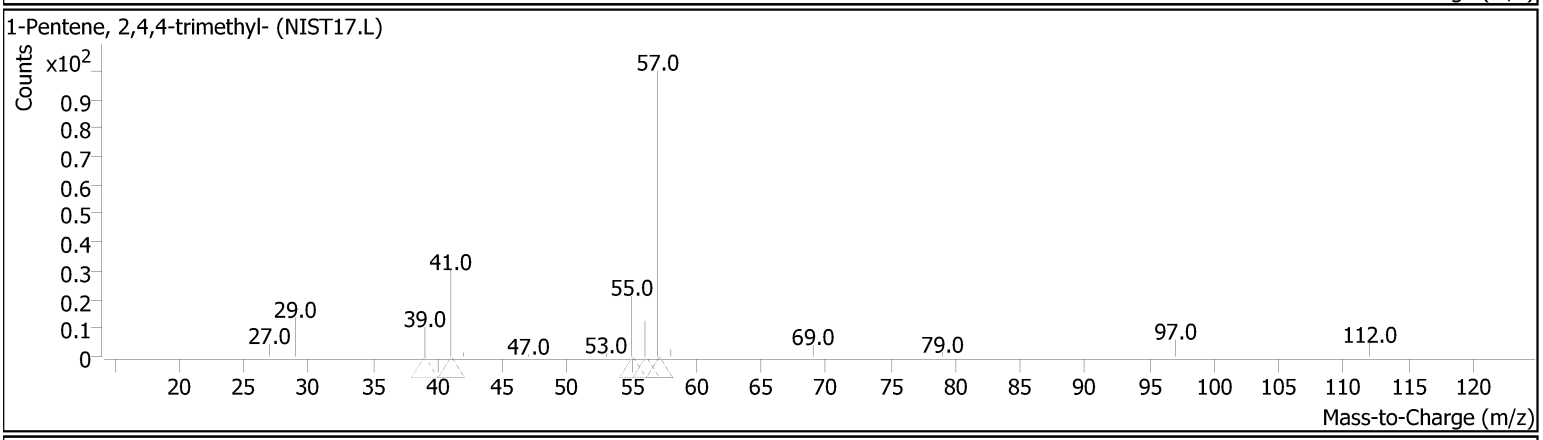


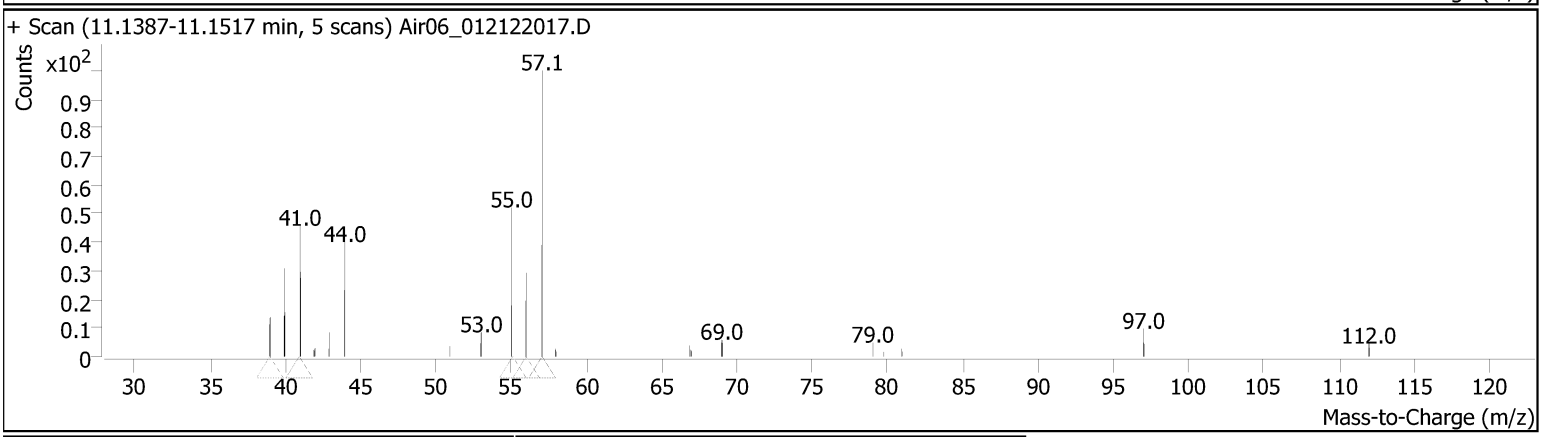

# Library Search Results - NonTarget Hits with Details

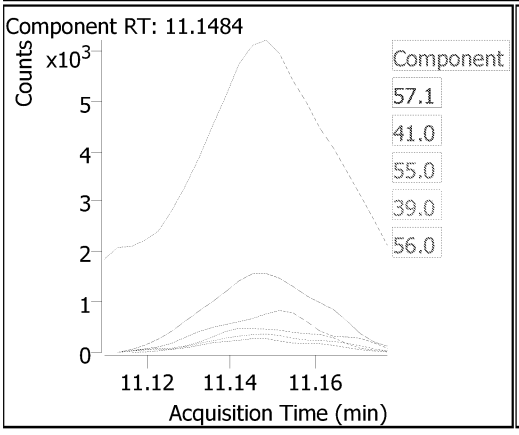
Agilent Technologies

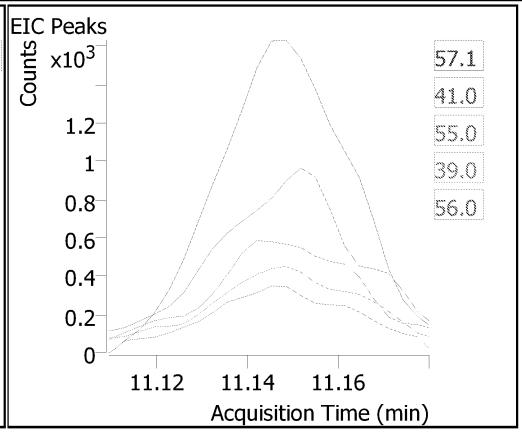
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.1484 | 1-Pentene, 2,4,4-trimethyl- | 8430.1 | 94.0 | 107-39-1 | C8H16 | 0.02075 |

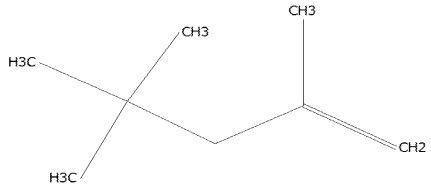


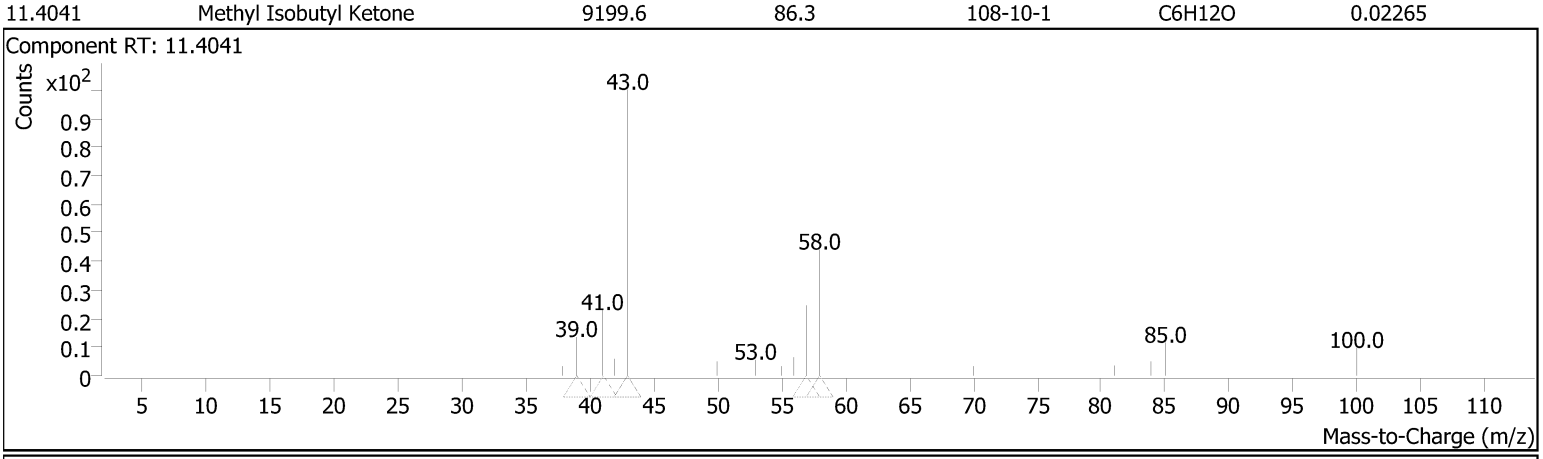



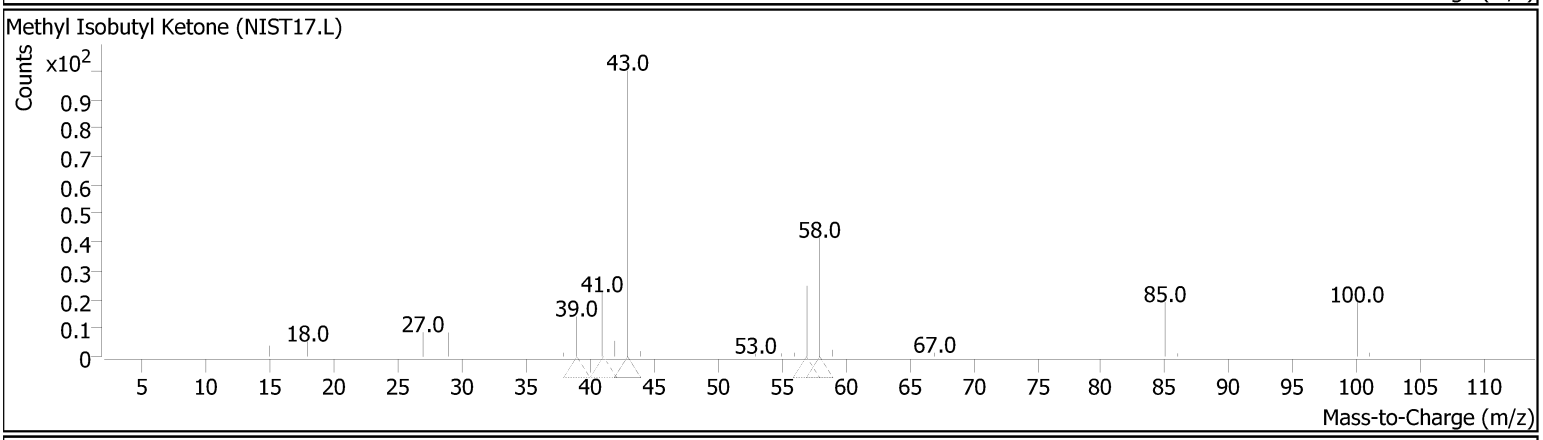



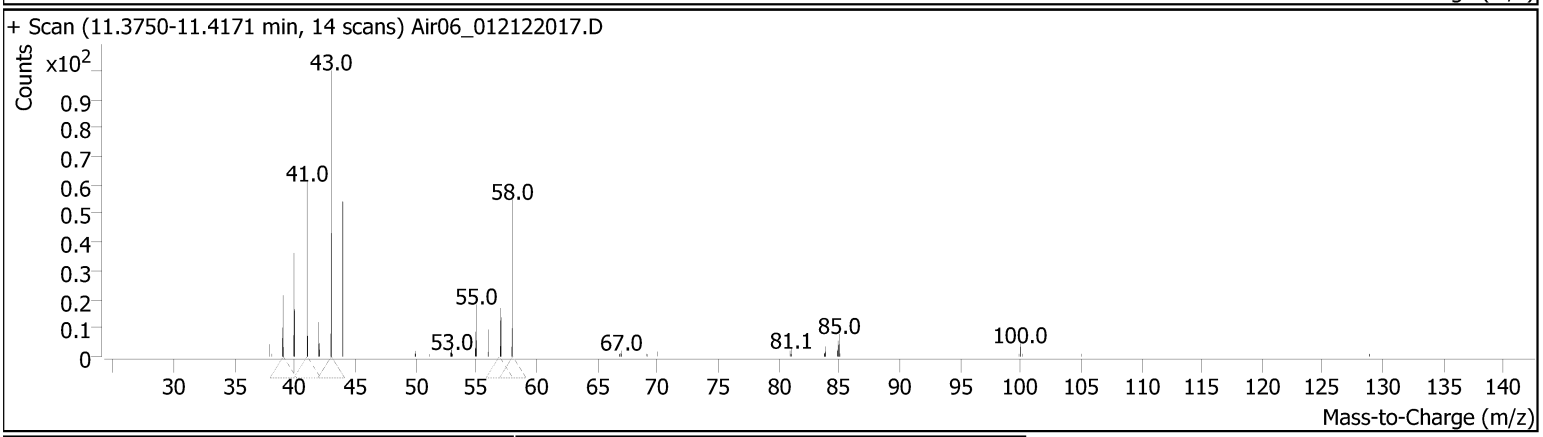



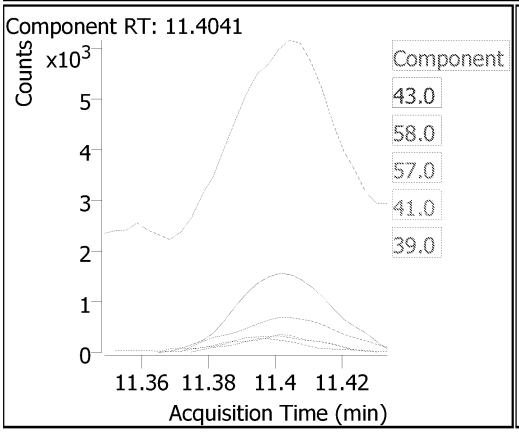



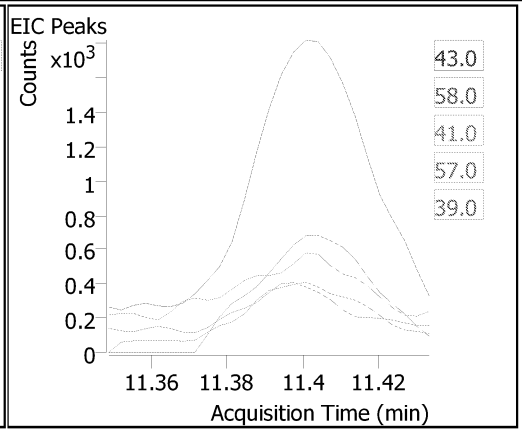
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.4041 | Methyl Isobutyl Ketone | 9199.6 | 86.3 | 108-10-1 | C6H12O | 0.02265 |

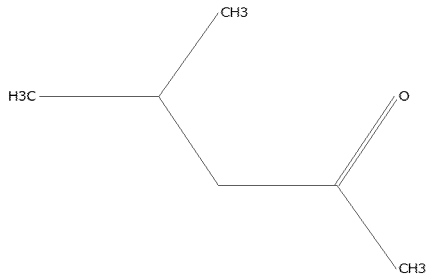


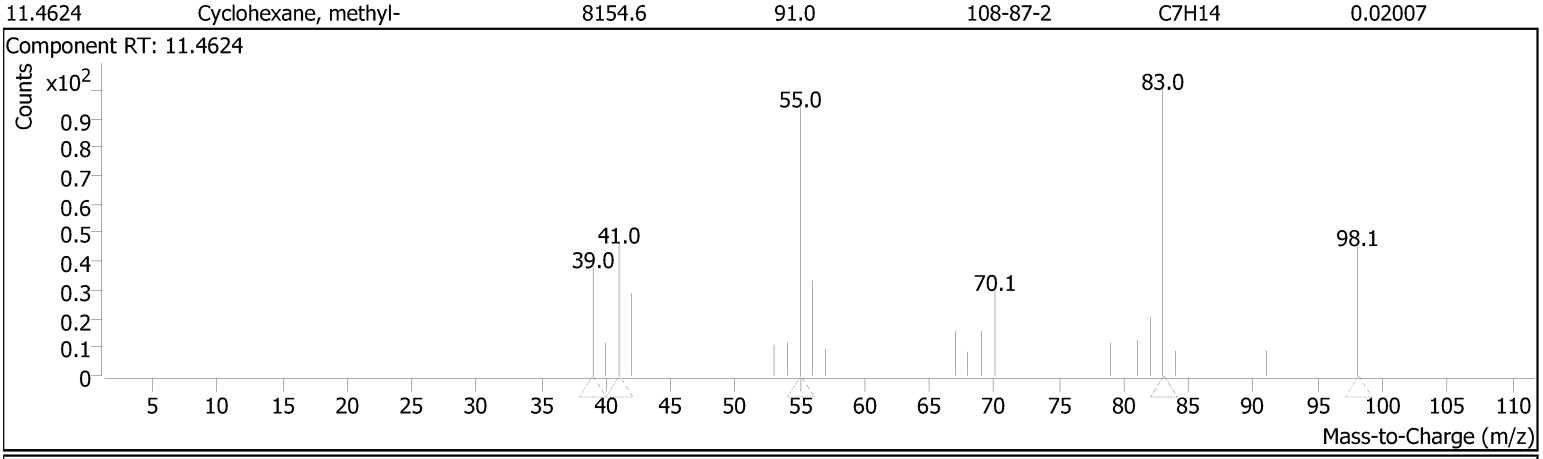



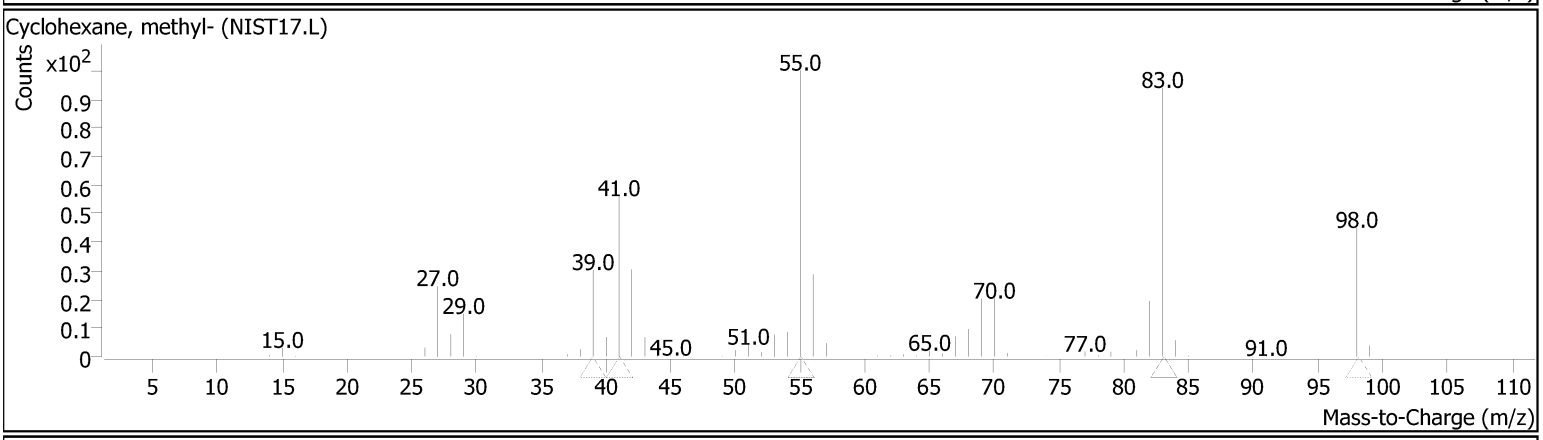



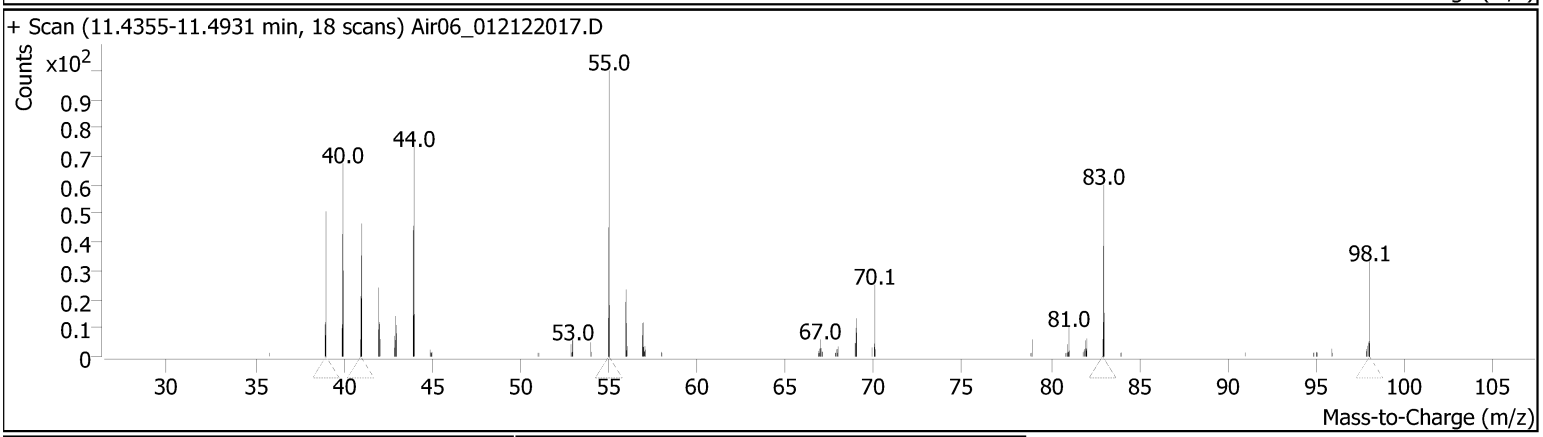



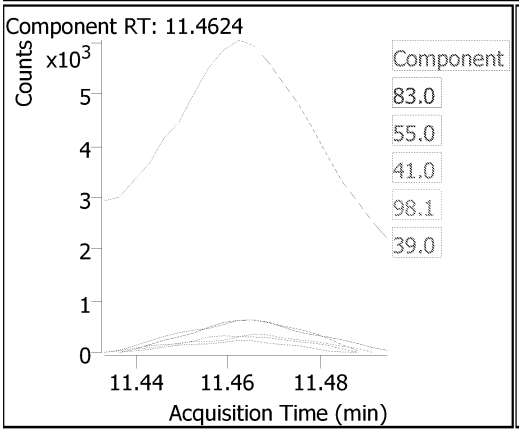



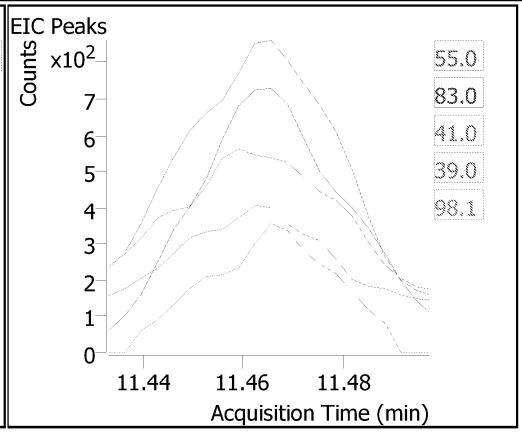
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.4624 | Cyclohexane, methyl- | 8154.6 | 91.0 | 108-87-2 | C7H14 | 0.02007 |

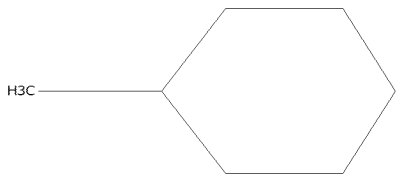


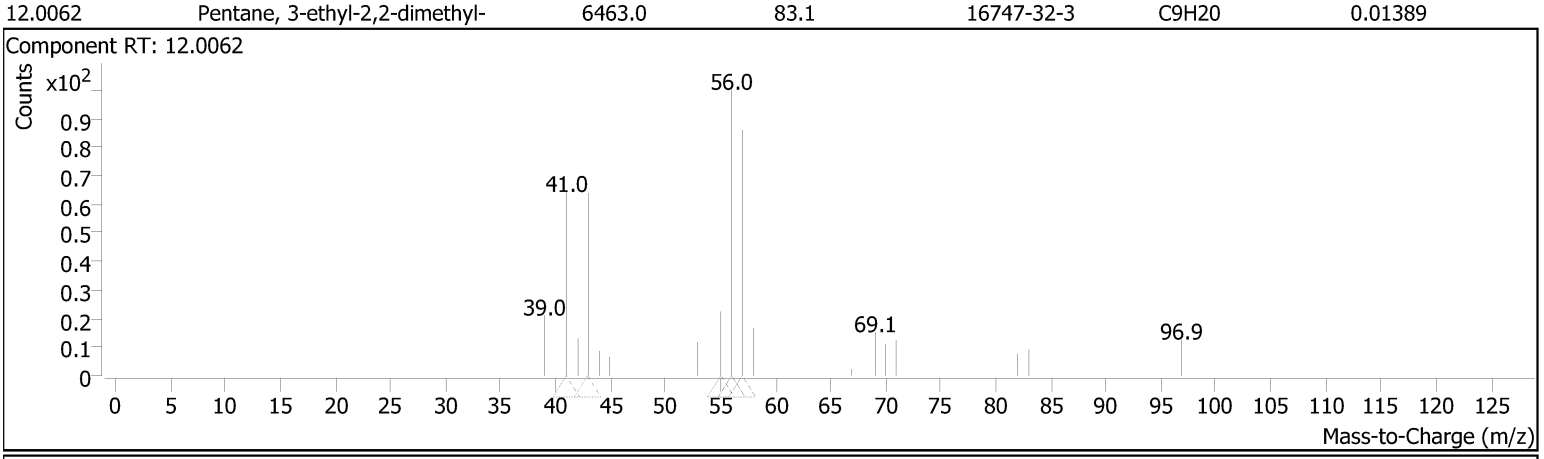



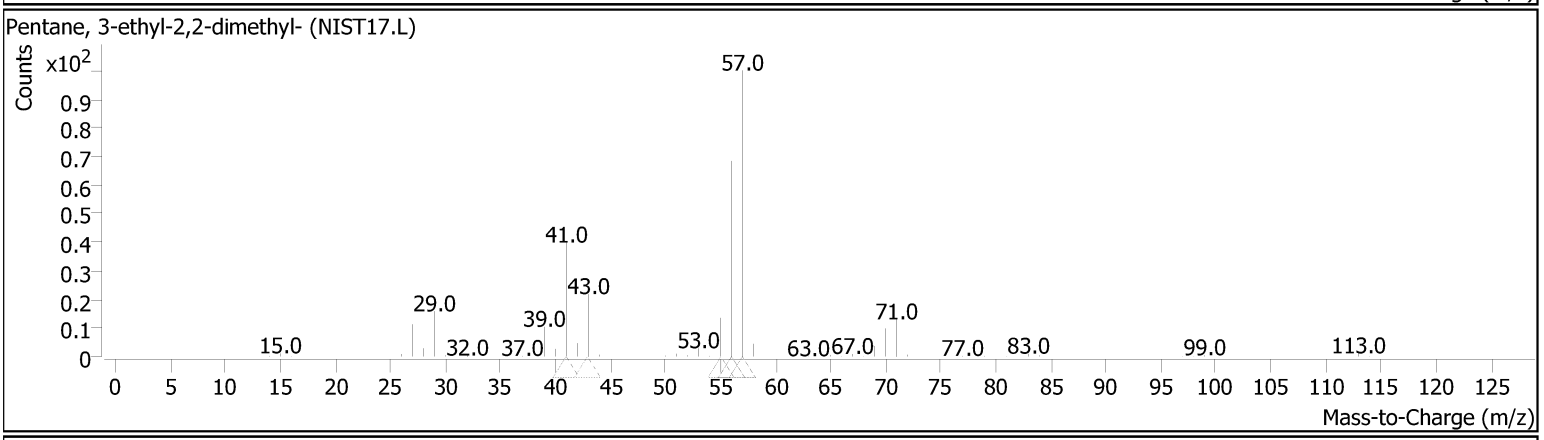



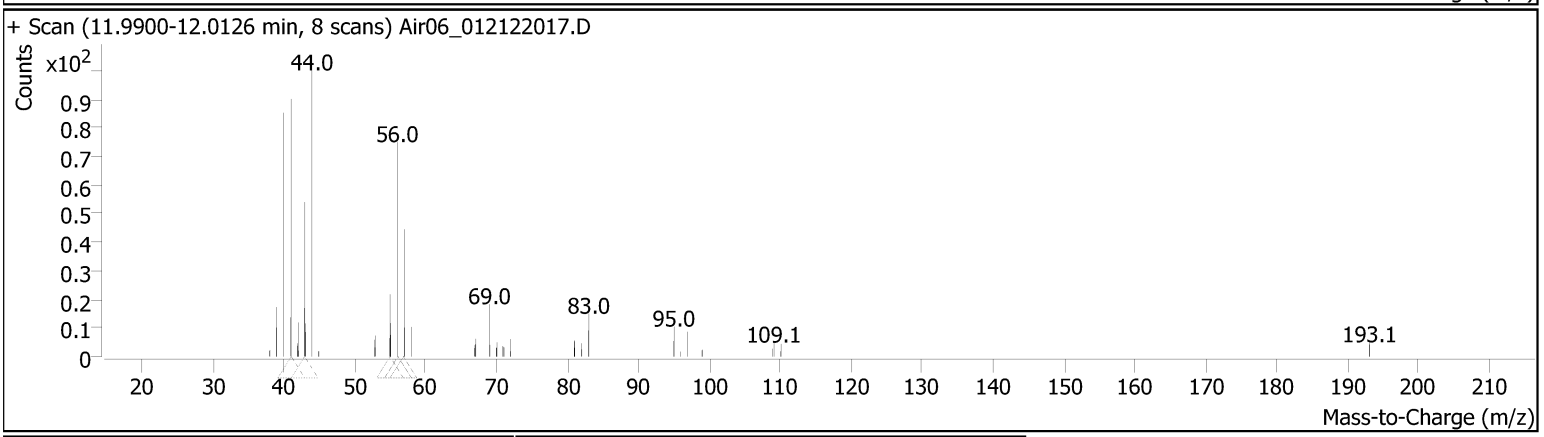



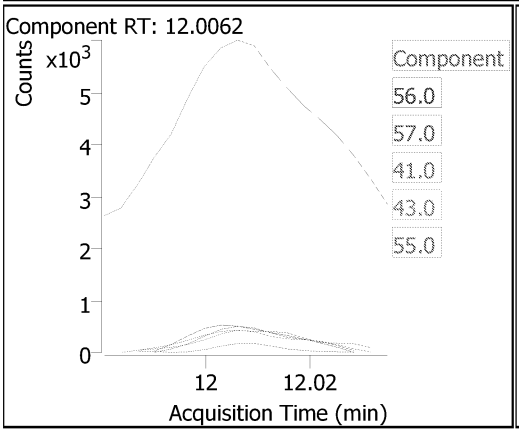



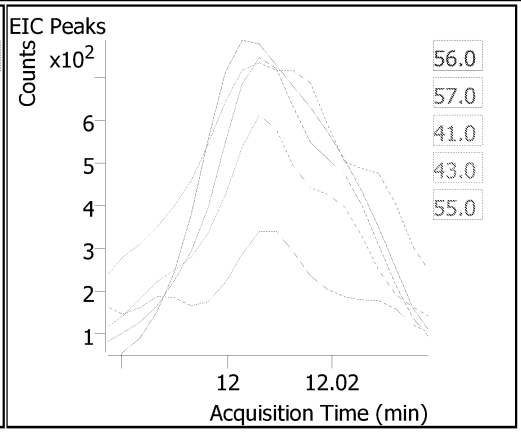
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.0062 | Pentane, 3-ethyl-2,2-dimethyl- | 6463.0 | 83.1 | 16747-32-3 | C9H20 | 0.01389 |

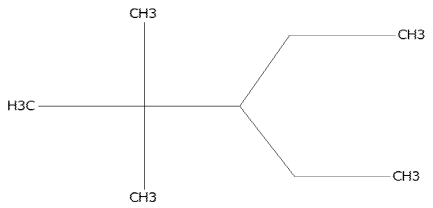


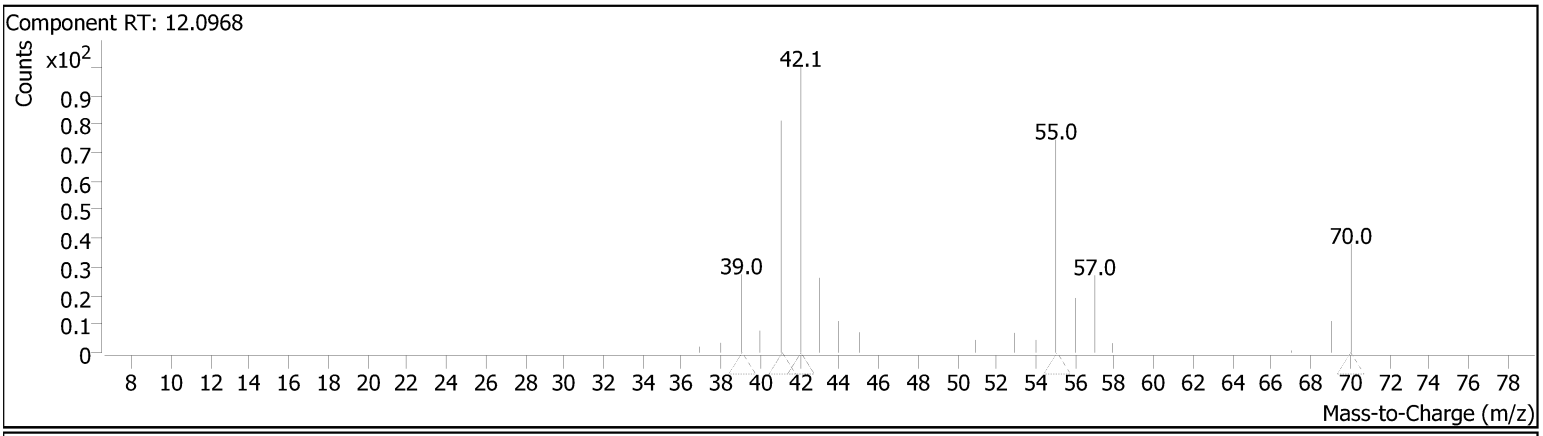



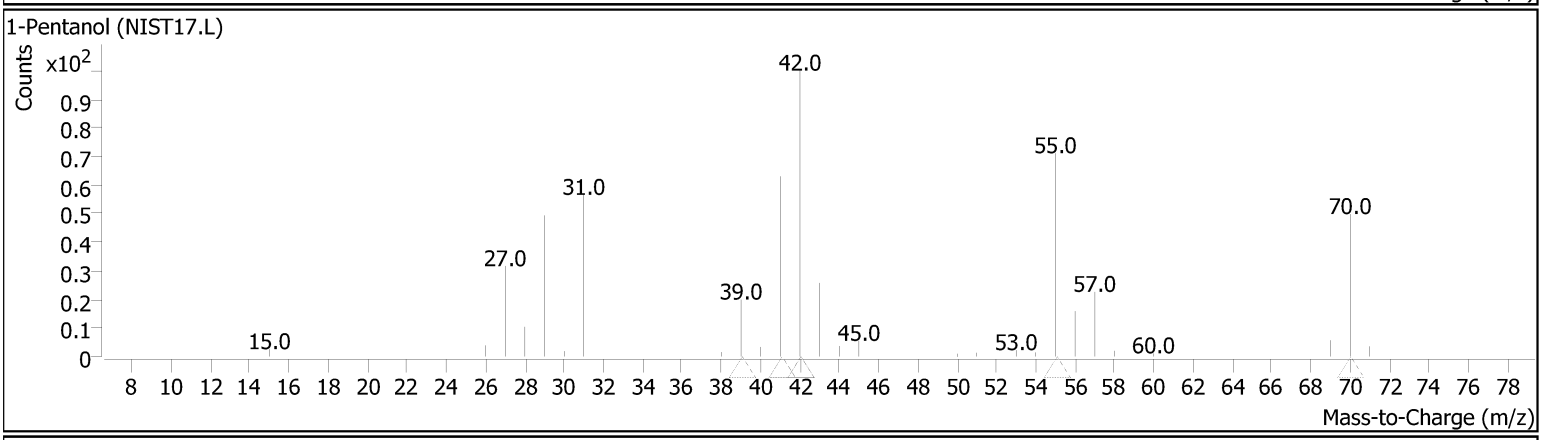



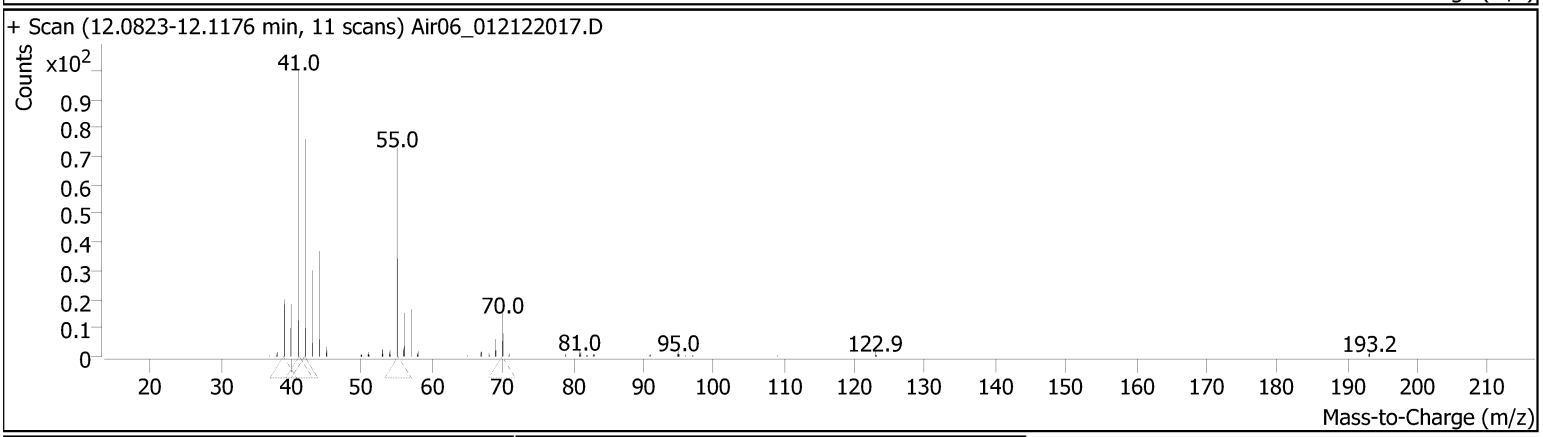



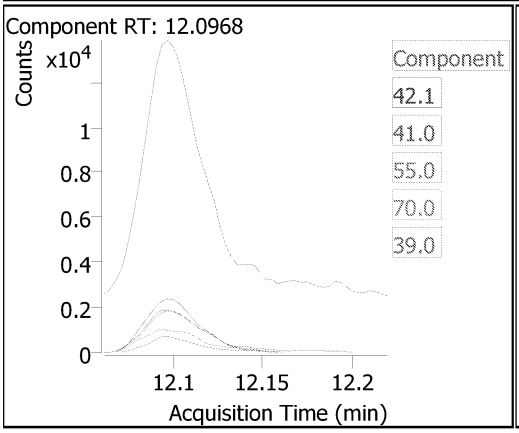



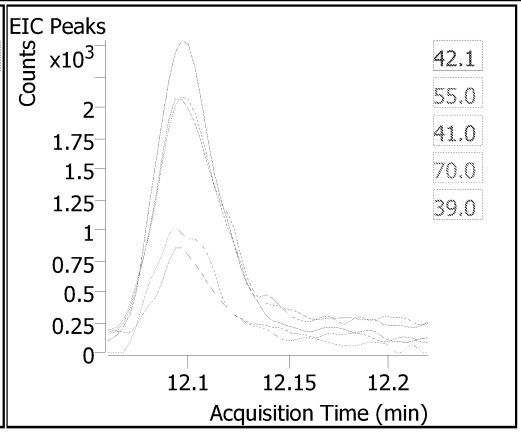
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.0968 | 1-Pentanol | 28162.7 | 93.7 | 71-41-0 | C5H12O | 0.06052 |



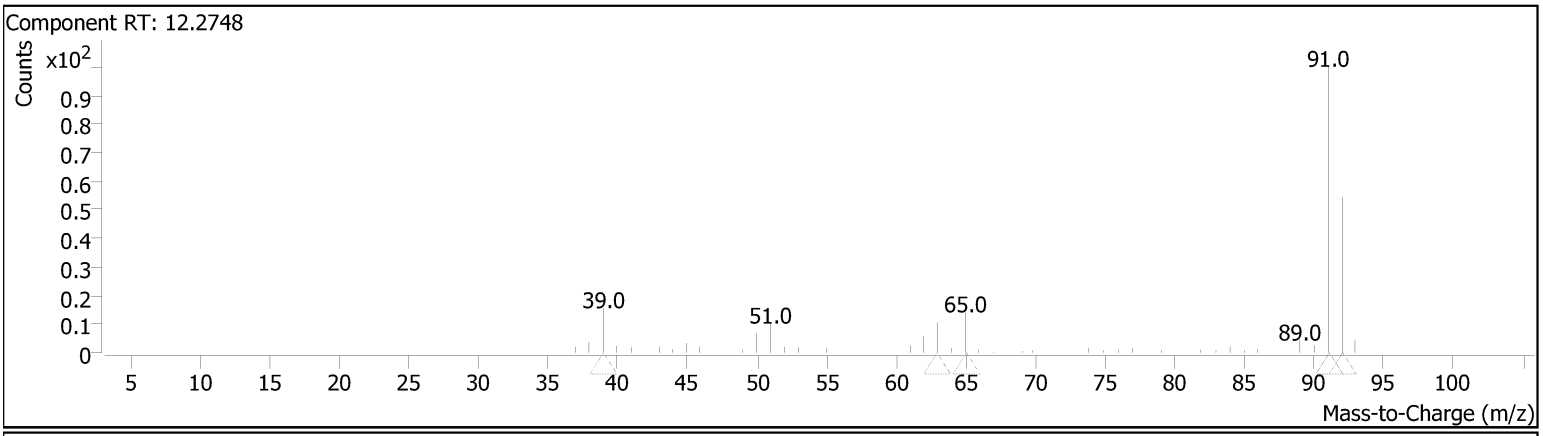



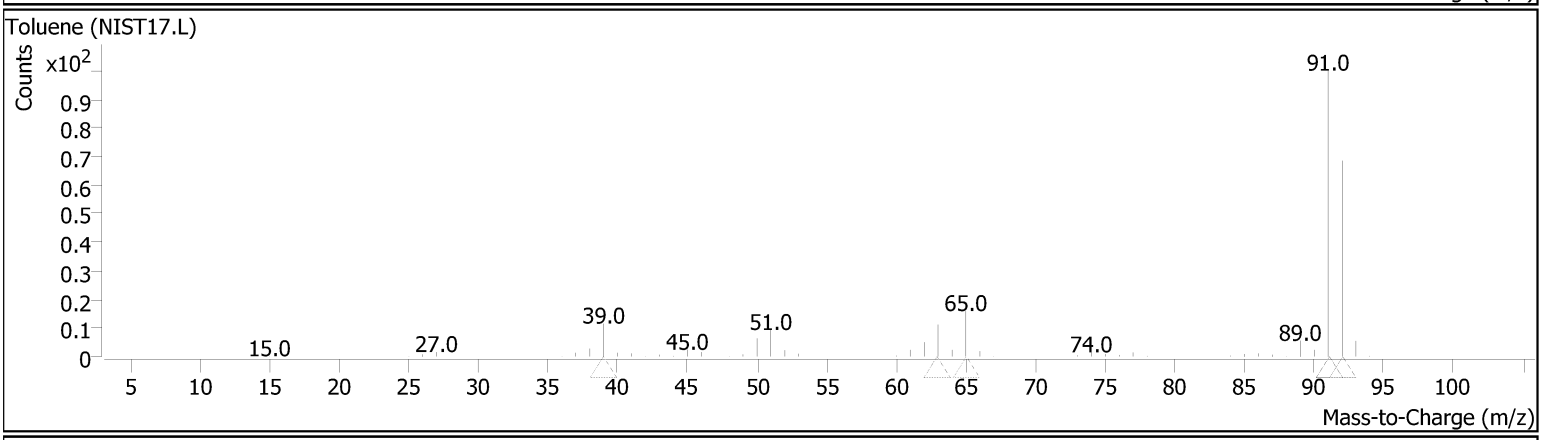



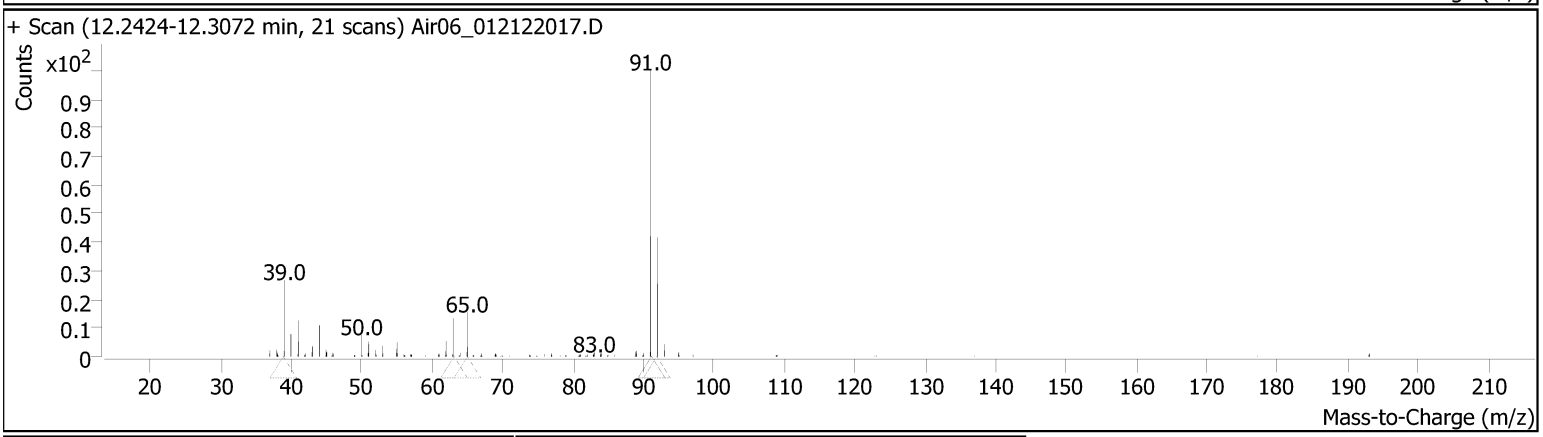



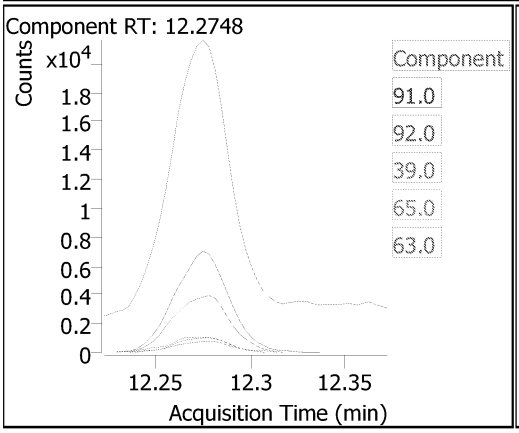


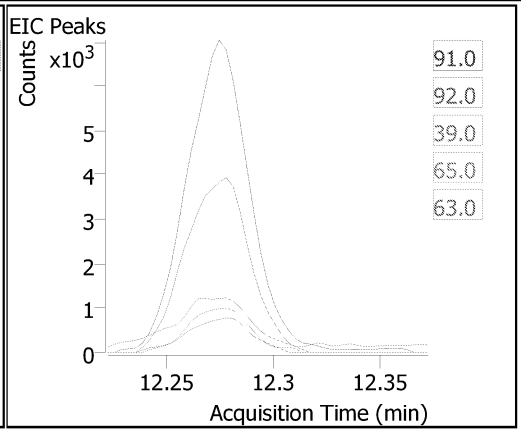

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.2748 | Toluene | 45466.5 | 95.9 | 108-88-3 | C7H8 | 0.0977 |

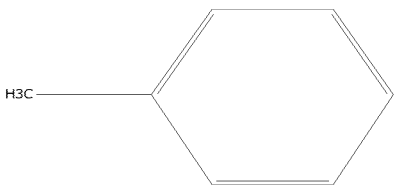


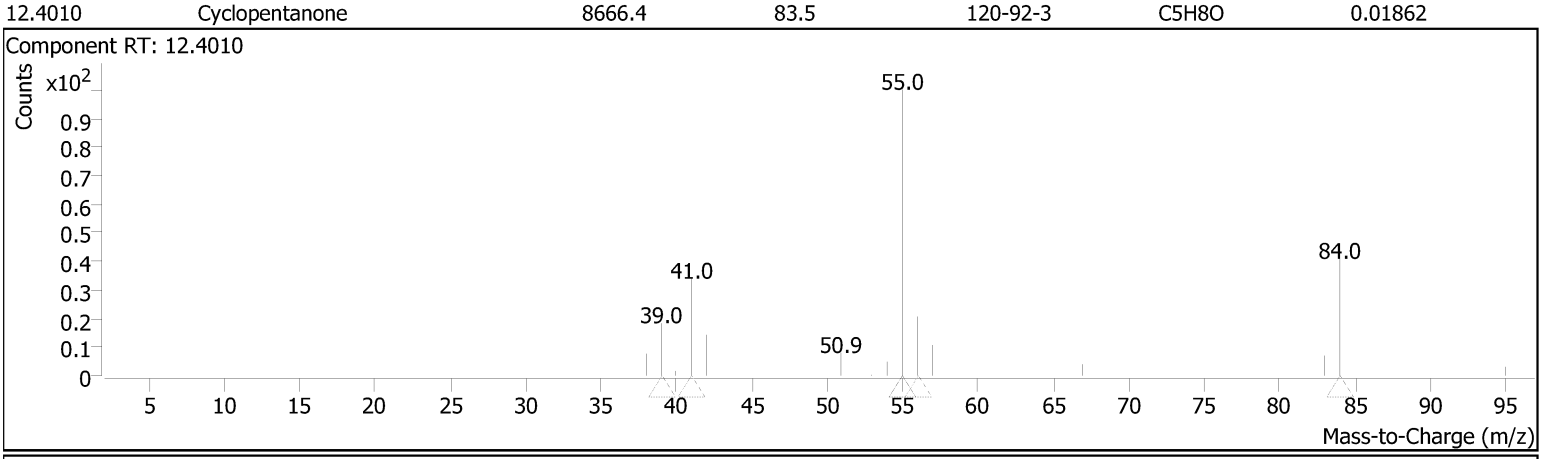



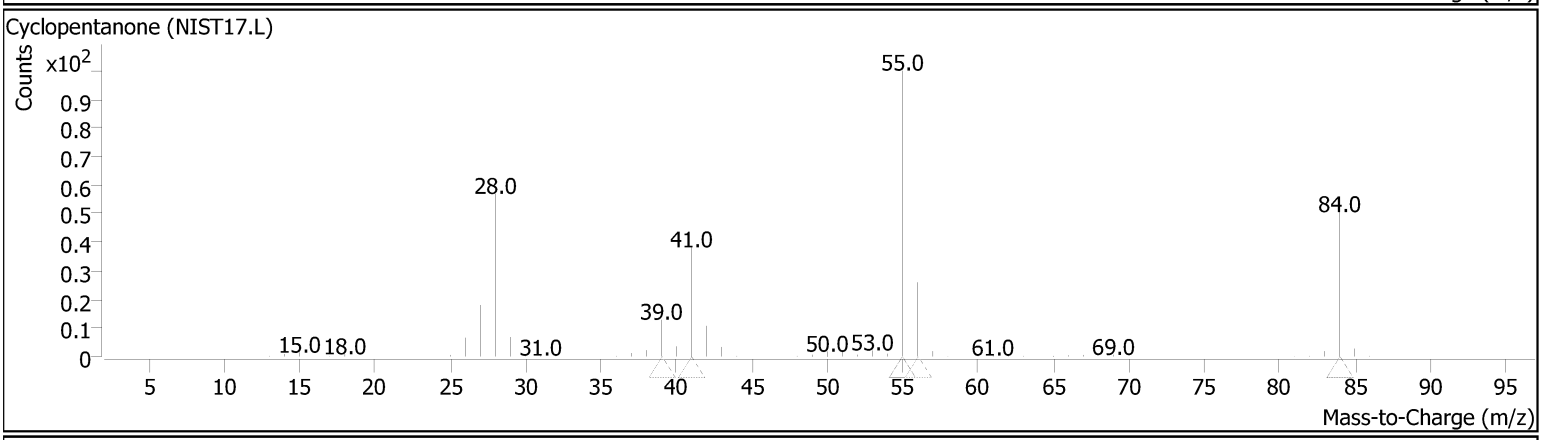



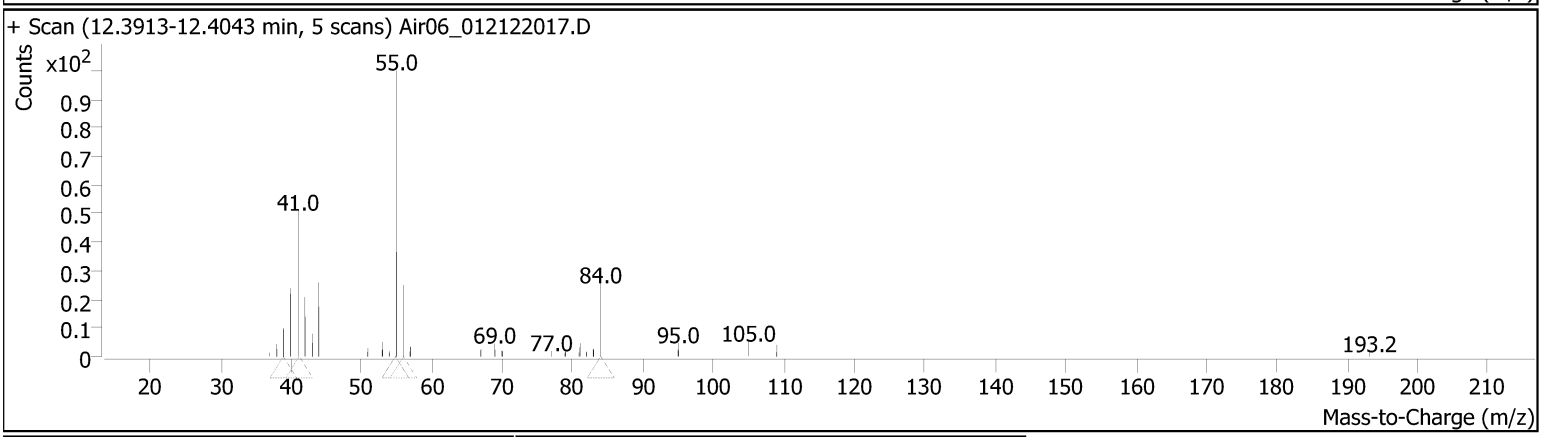



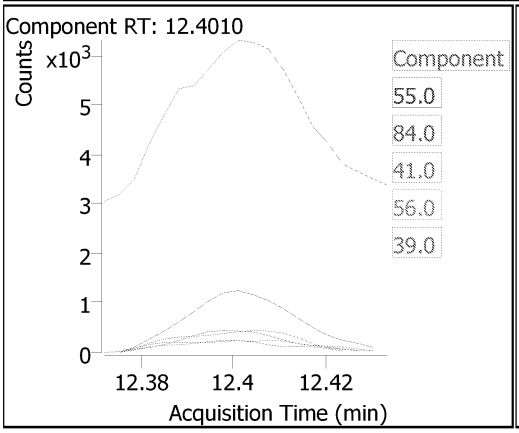



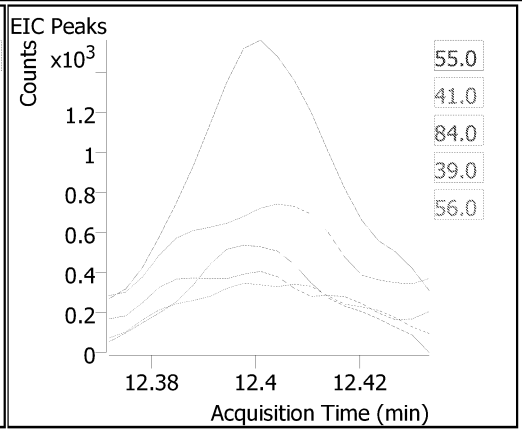
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.4010 | Cyclopentanone | 8666.4 | 83.5 | 120-92-3 | C5H8O | 0.01862 |

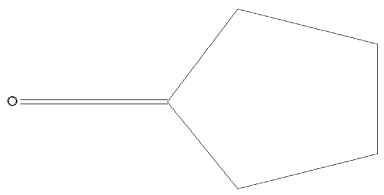


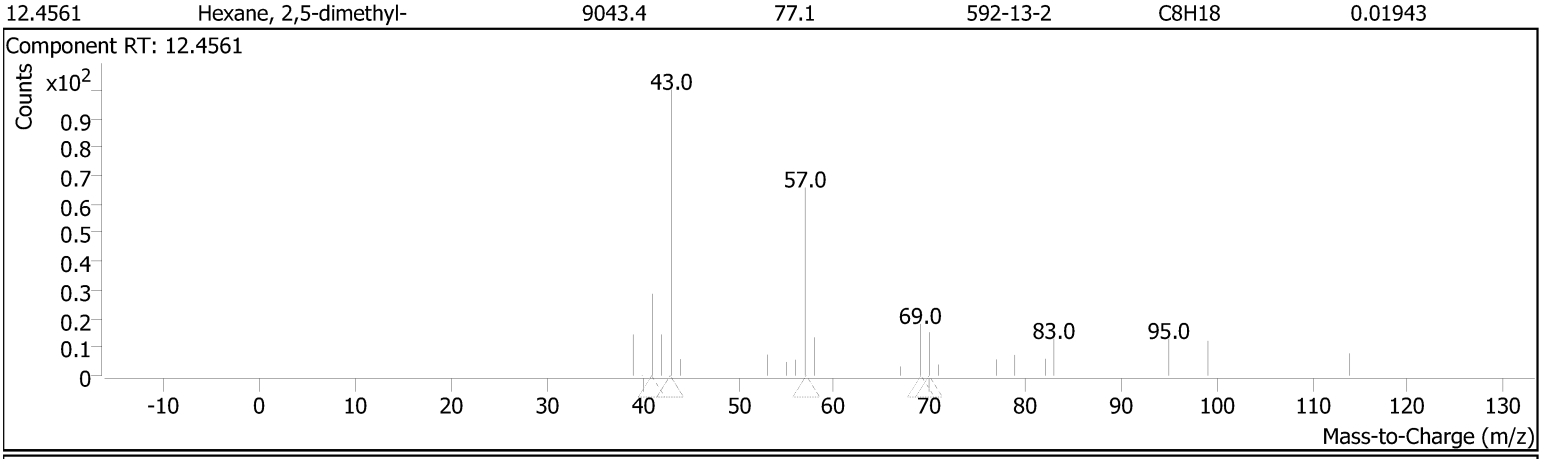



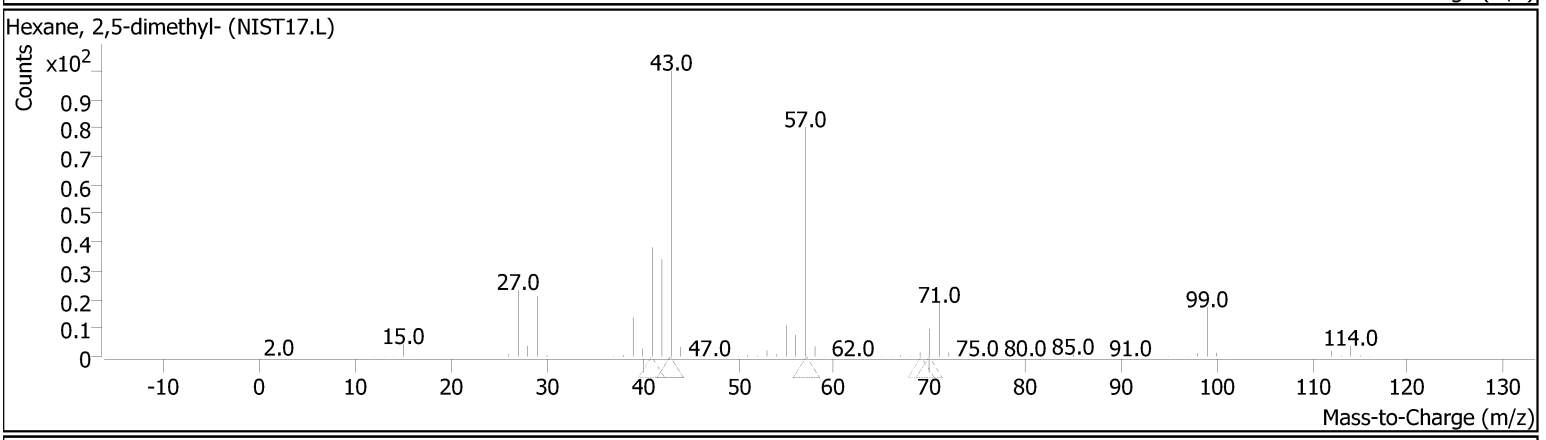



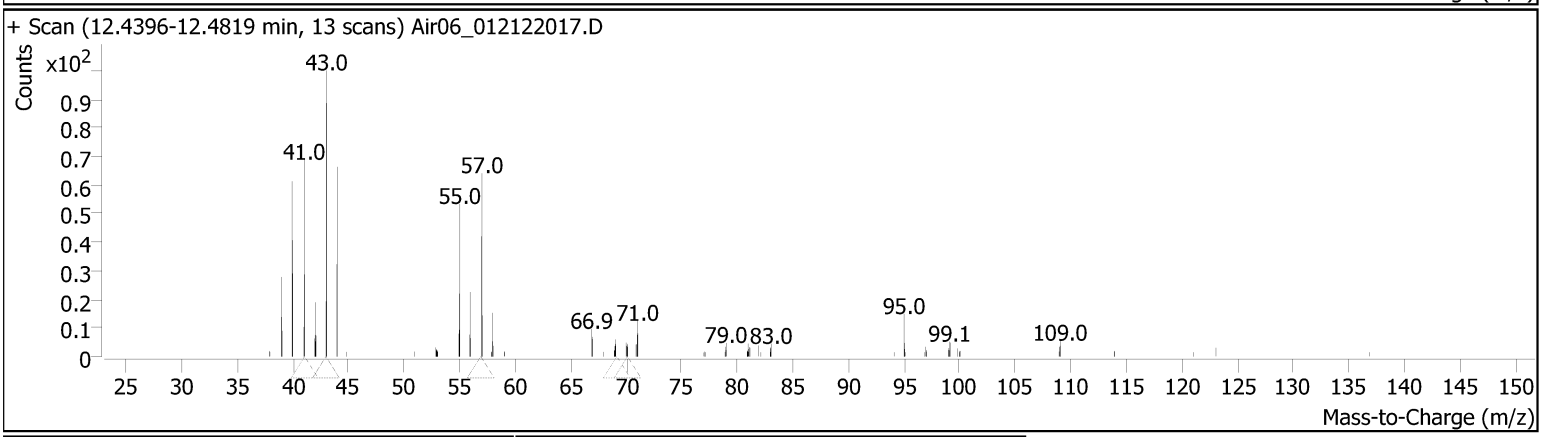



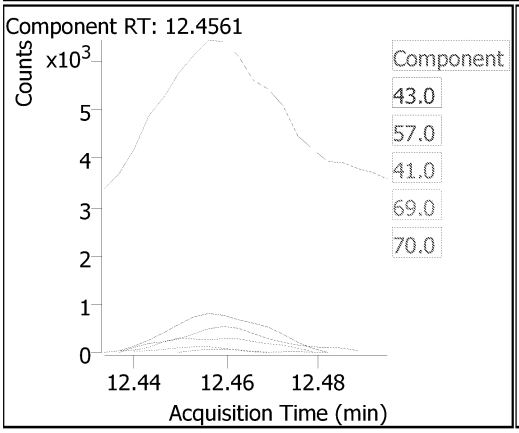



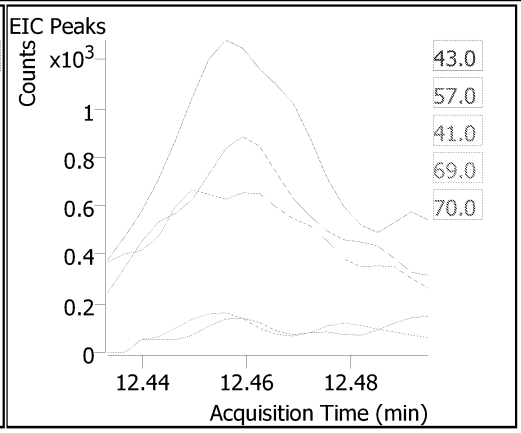
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.4561 | Hexane, 2,5-dimethyl- | 9043.4 | 77.1 | 592-13-2 | C8H18 | 0.01943 |

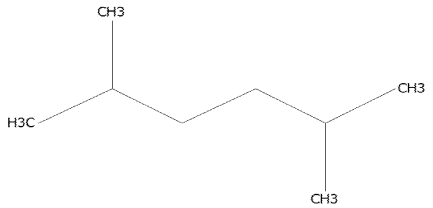


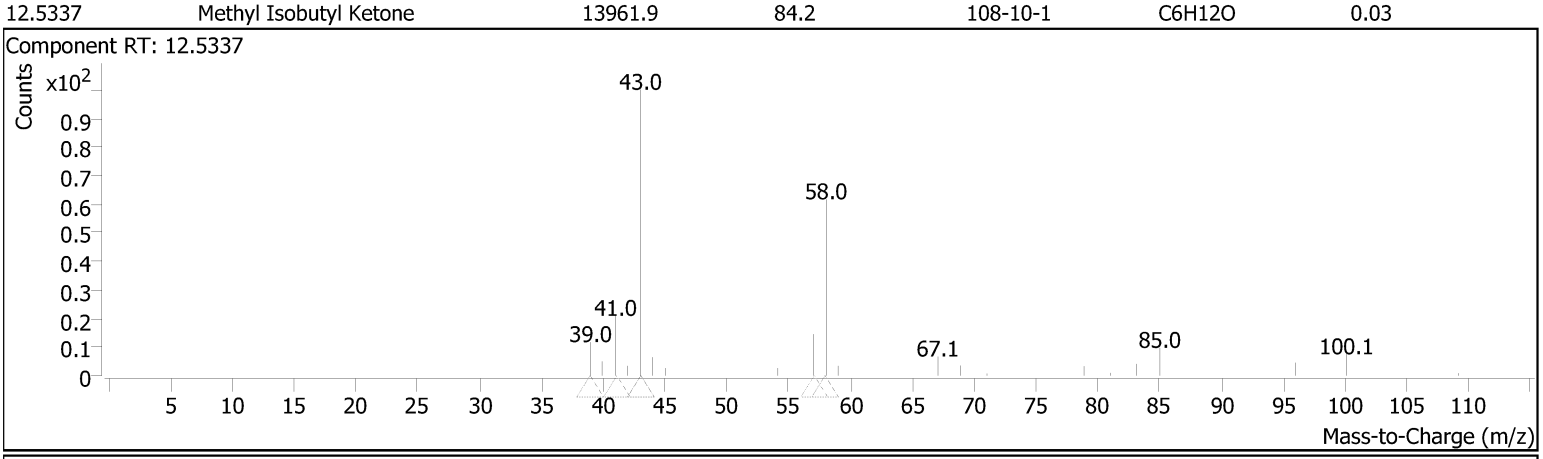



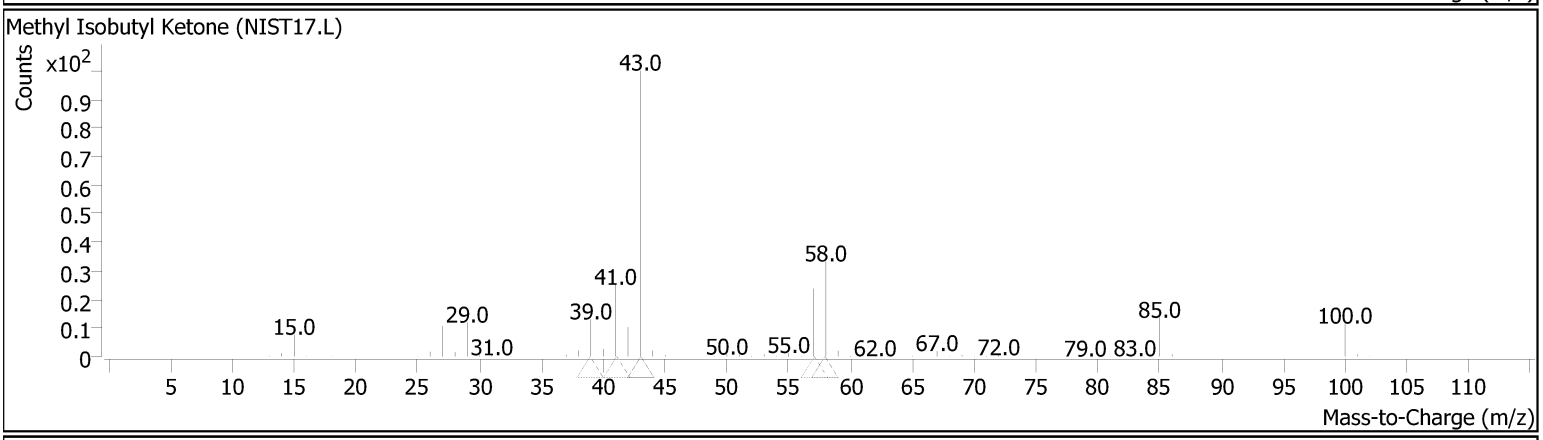



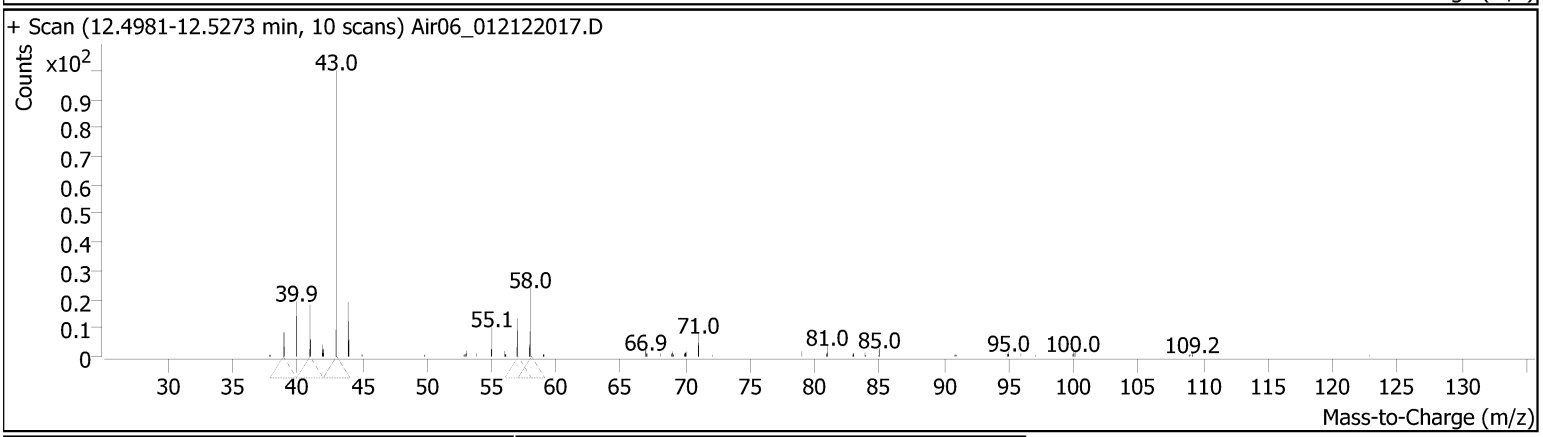



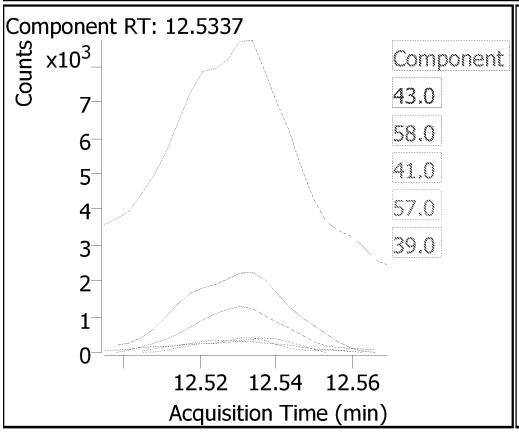



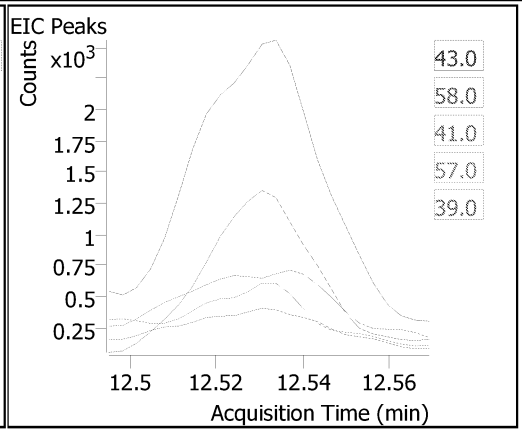
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.5337 | Methyl Isobutyl Ketone | 13961.9 | 84.2 | 108-10-1 | C6H12O | 0.03 |

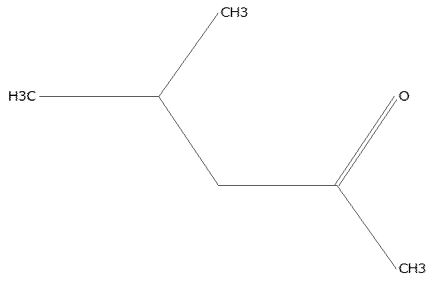


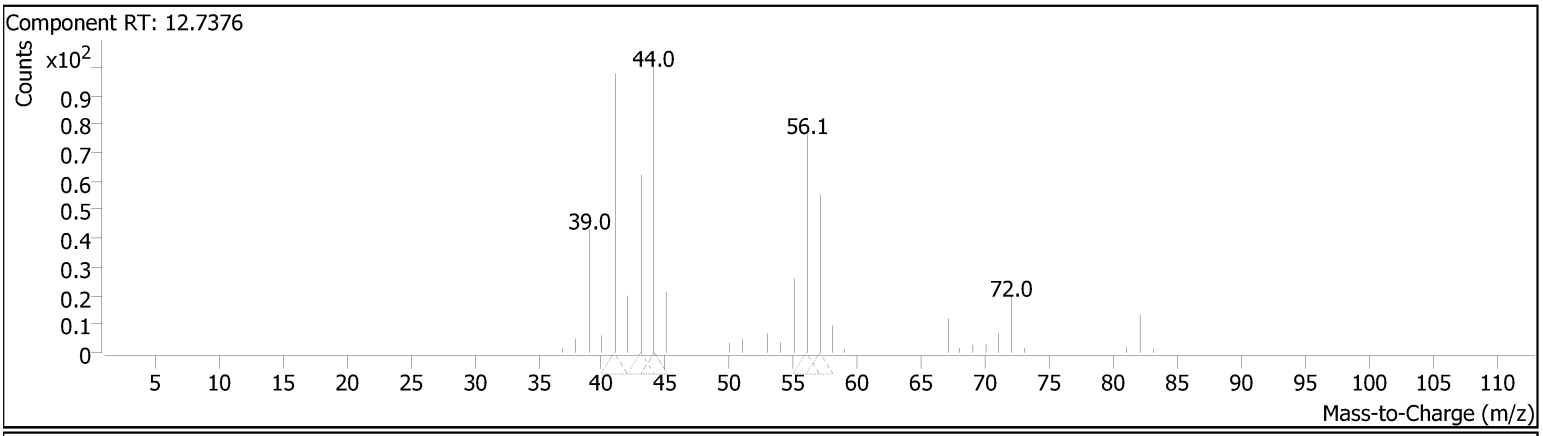



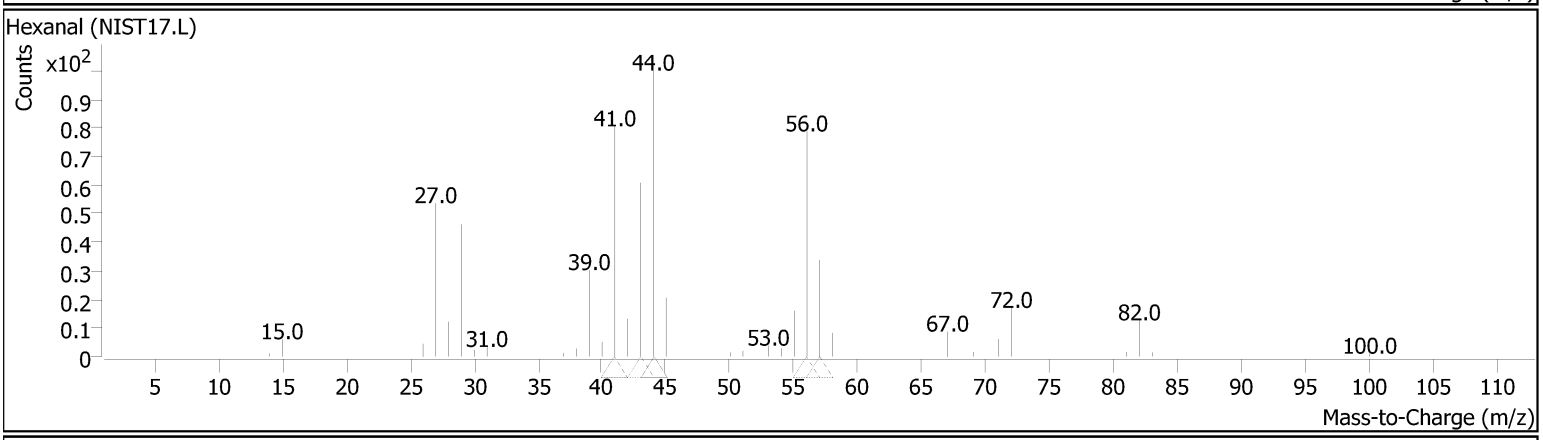



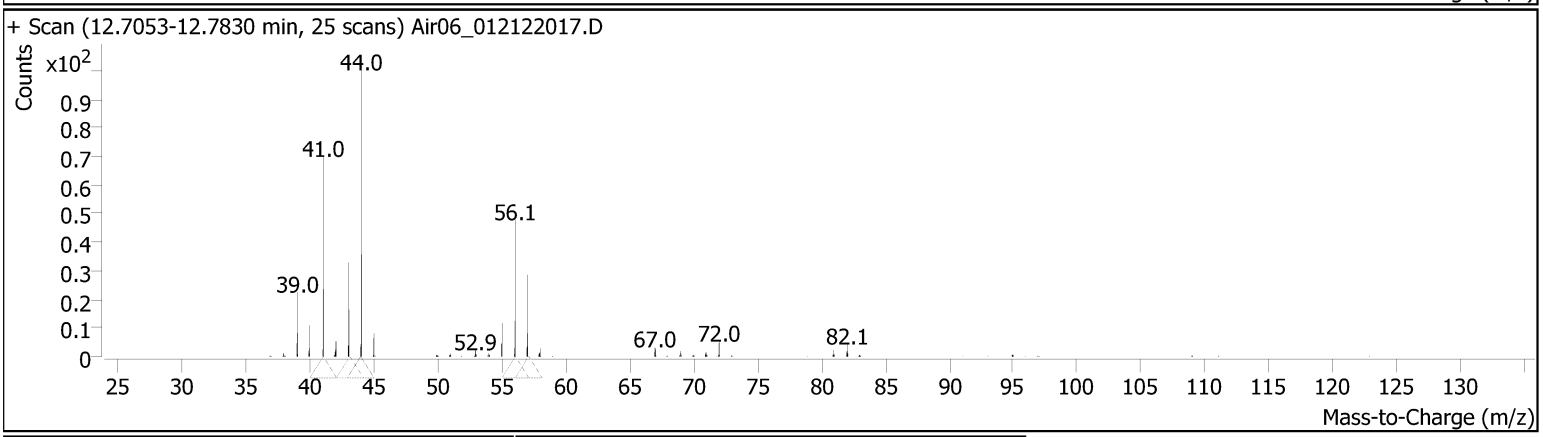



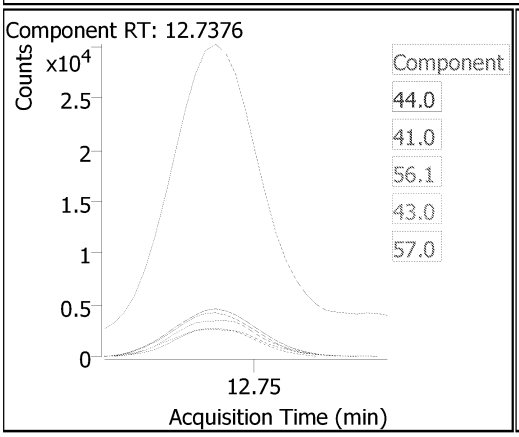



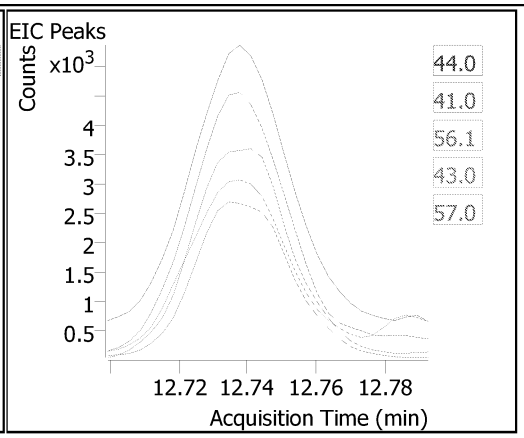
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.7376 | Hexanal | 58609.5 | 97.6 | 66-25-1 | C6H12O | 0.1259 |



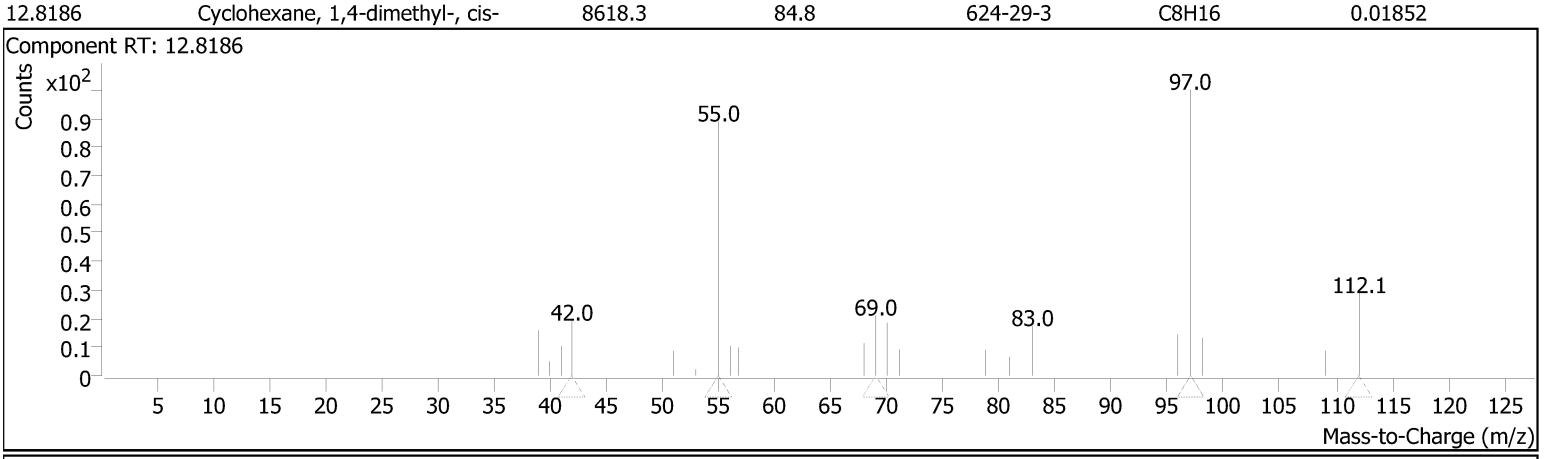



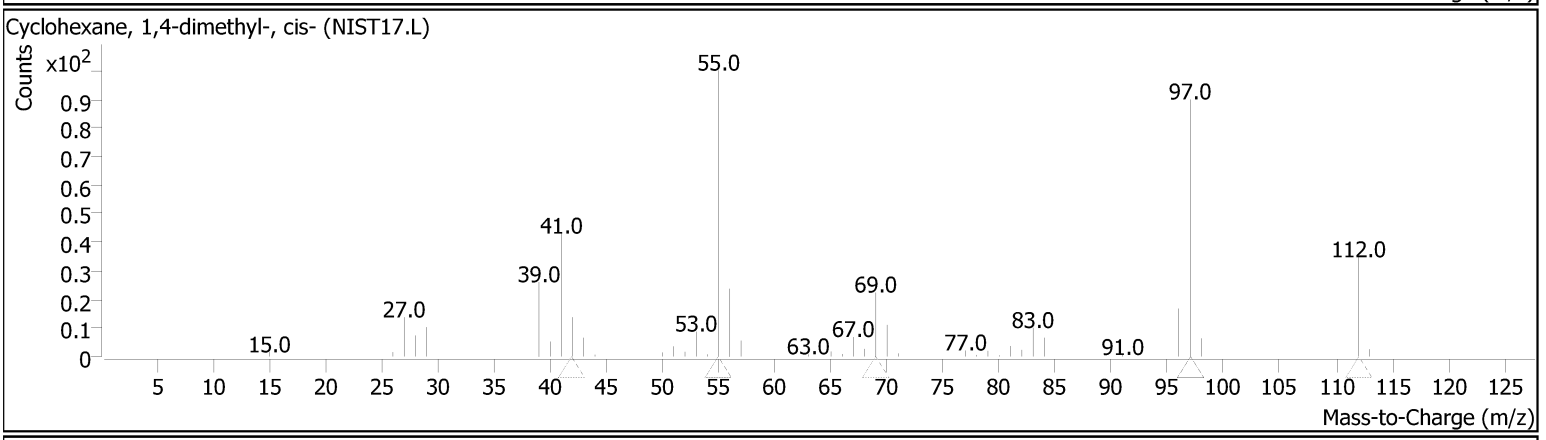



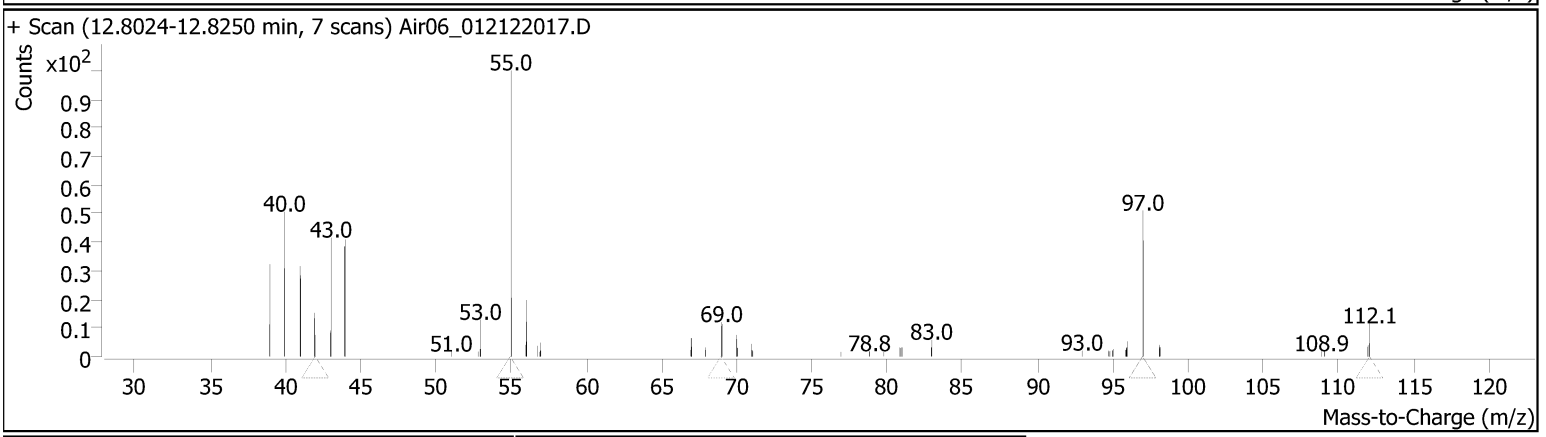



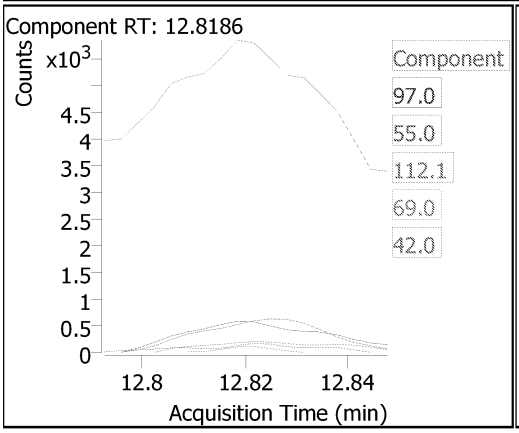


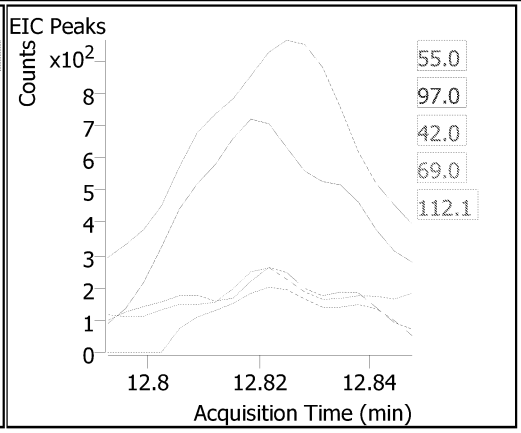

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.8186 | Cyclohexane, 1,4-dimethyl-, cis- | 8618.3 | 84.8 | 624-29-3 | C8H16 | 0.01852 |

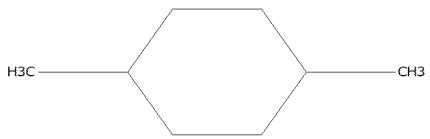


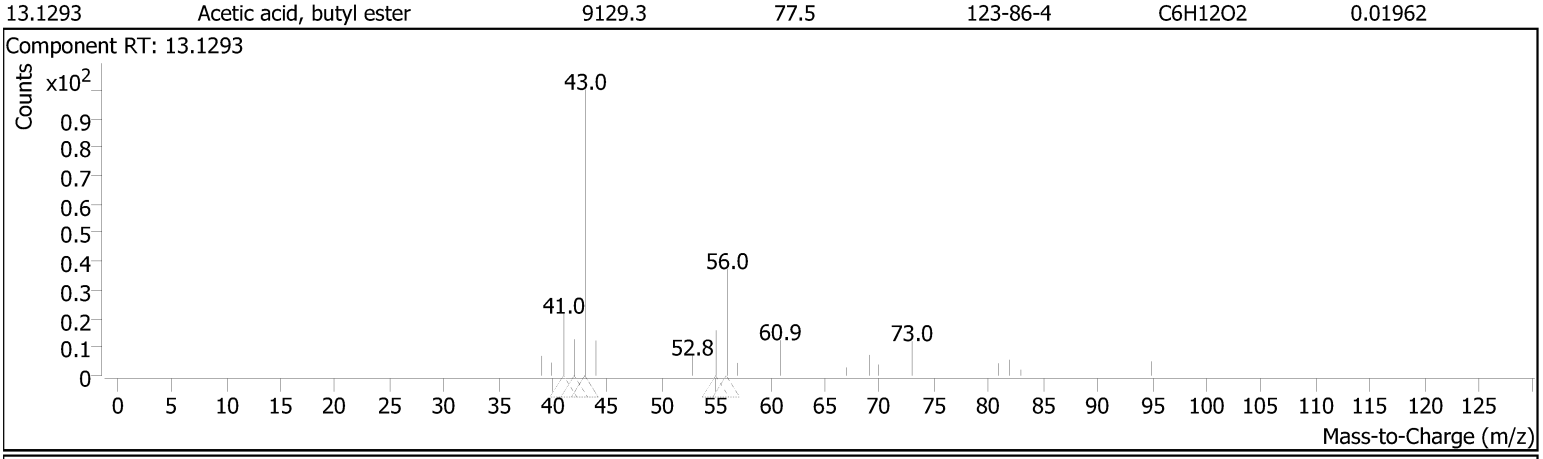



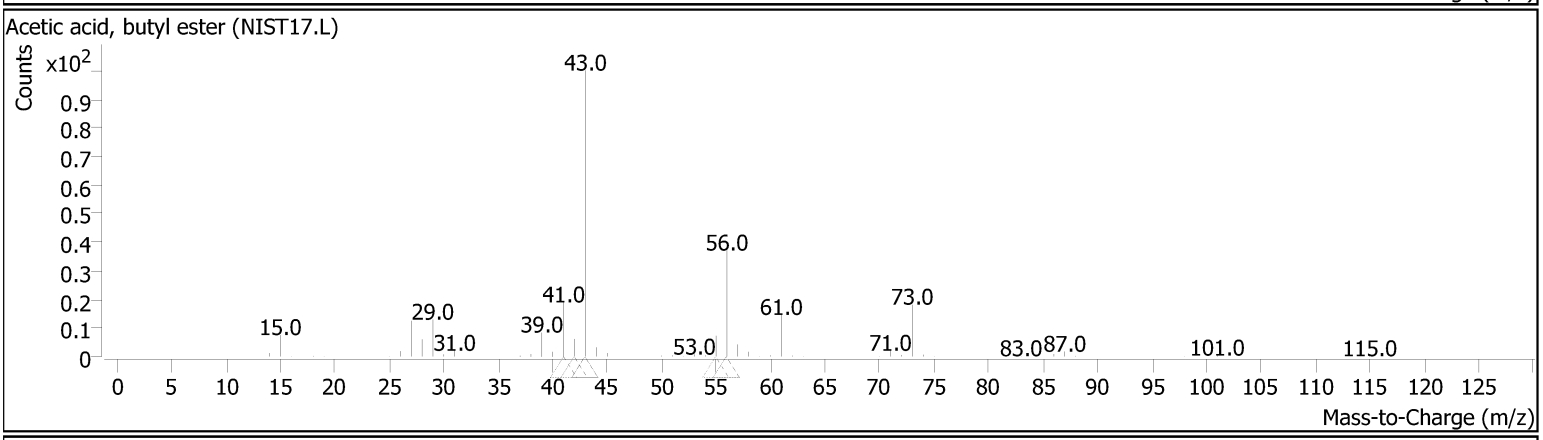



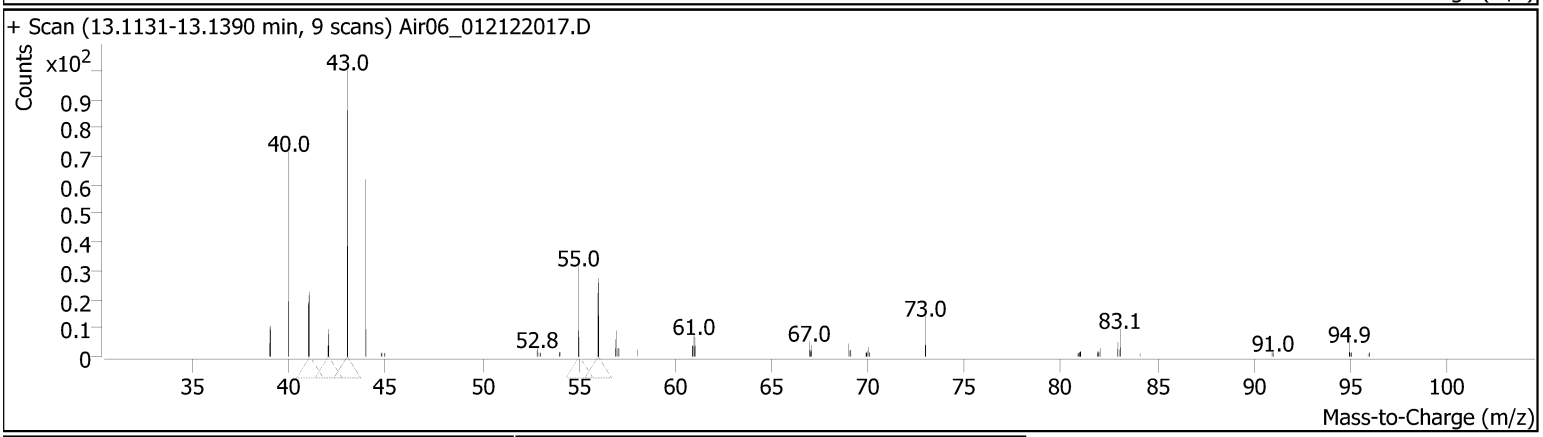



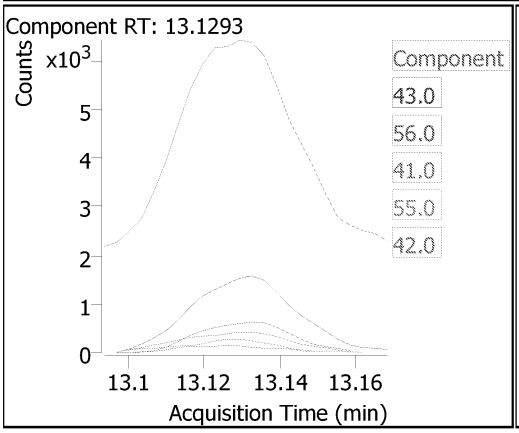



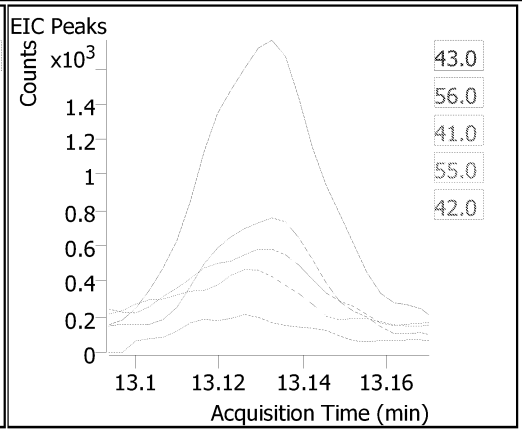
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.1293 | Acetic acid, butyl ester | 9129.3 | 77.5 | 123-86-4 | C6H12O2 | 0.01962 |

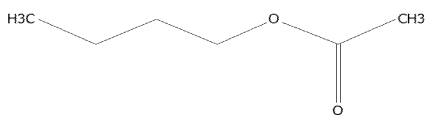


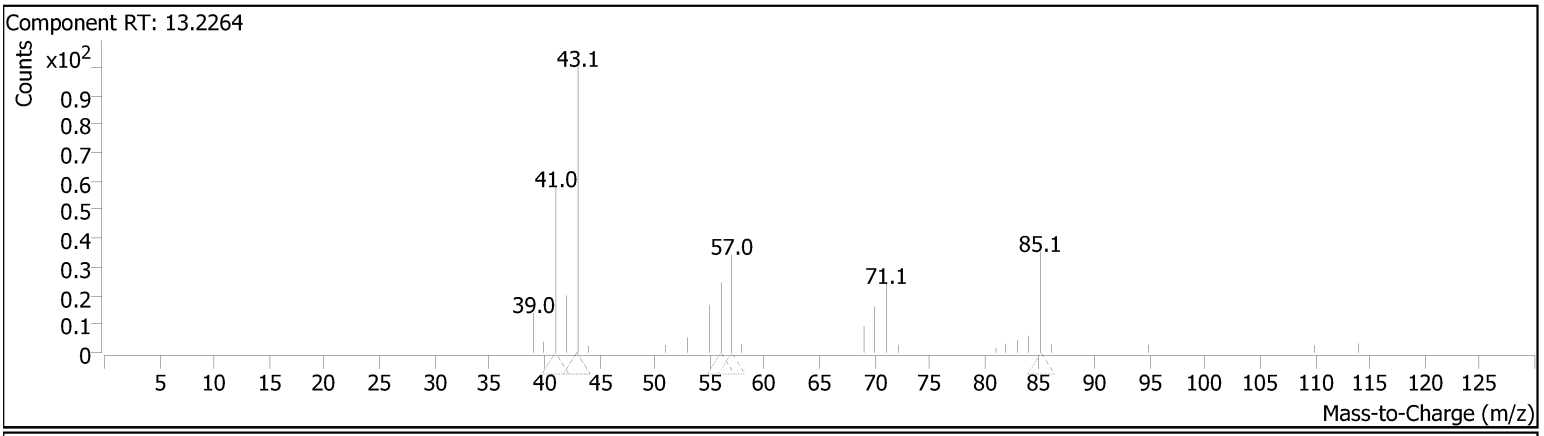



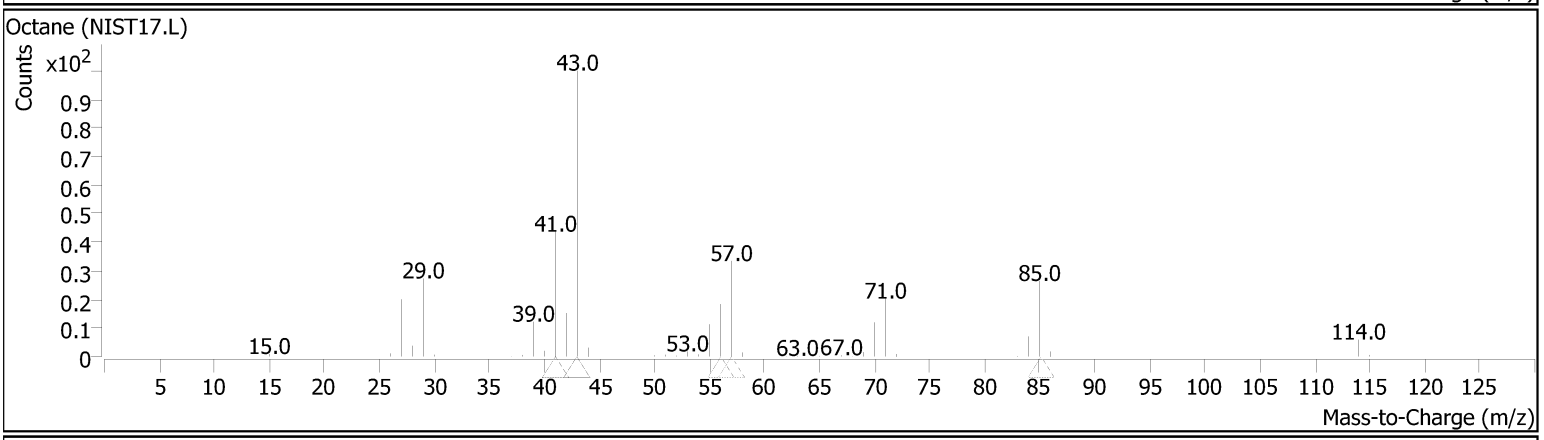



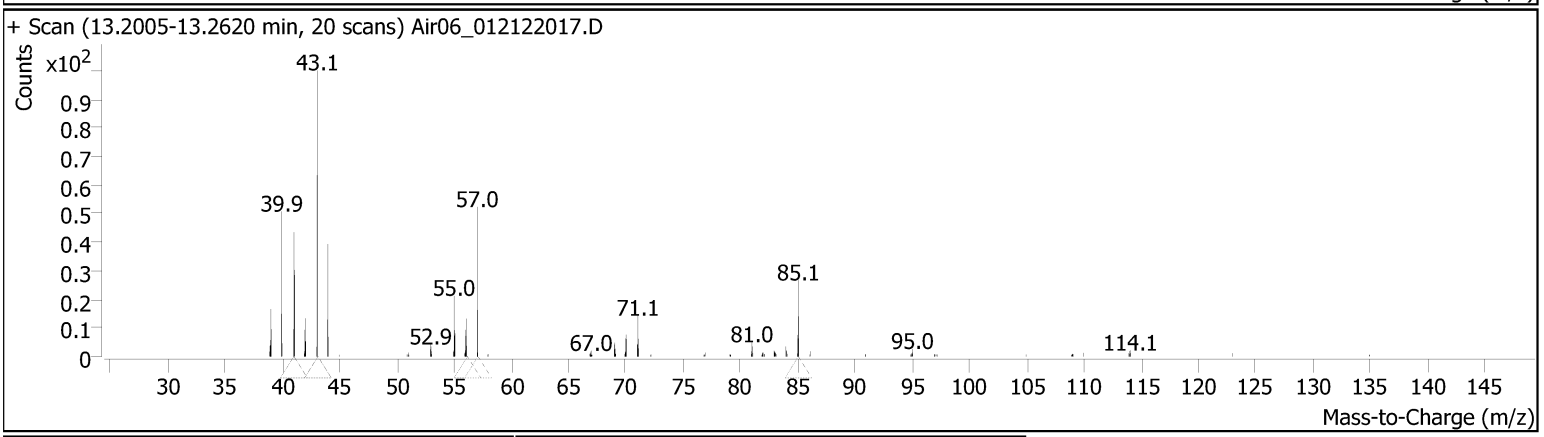



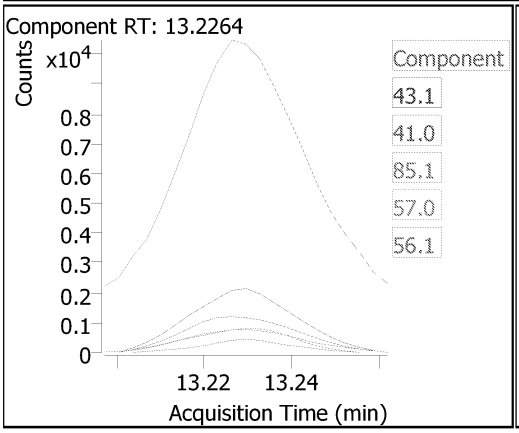



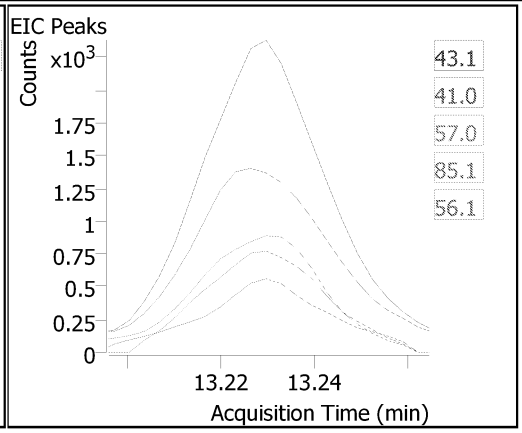
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.2264 | Octane | 15572.7 | 92.8 | 111-65-9 | C8H18 | 0.03346 |



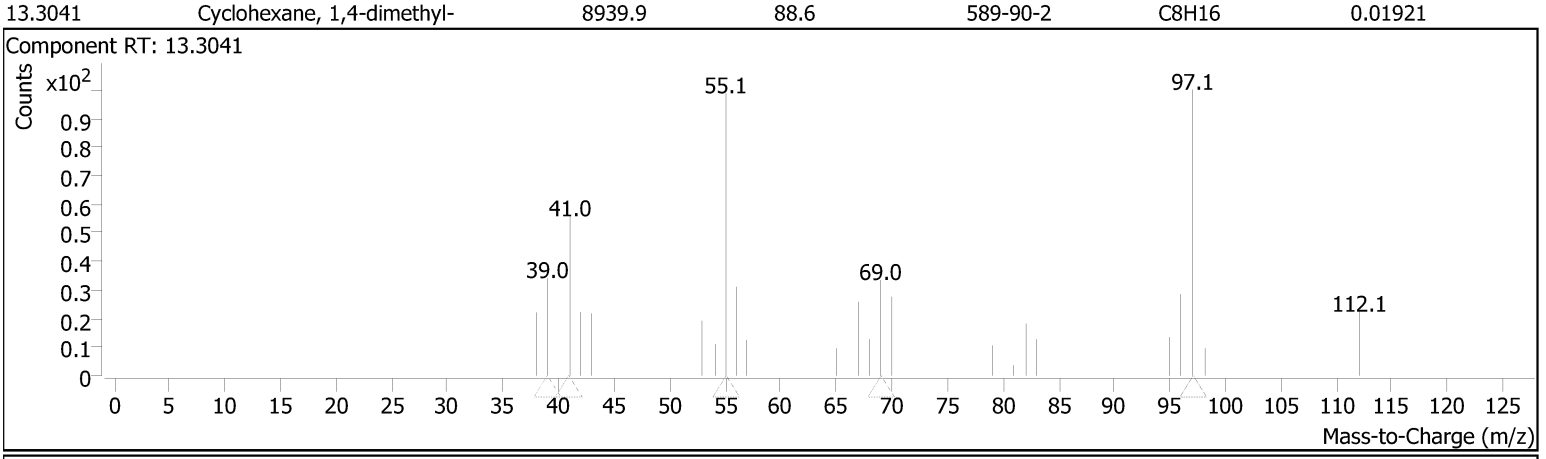



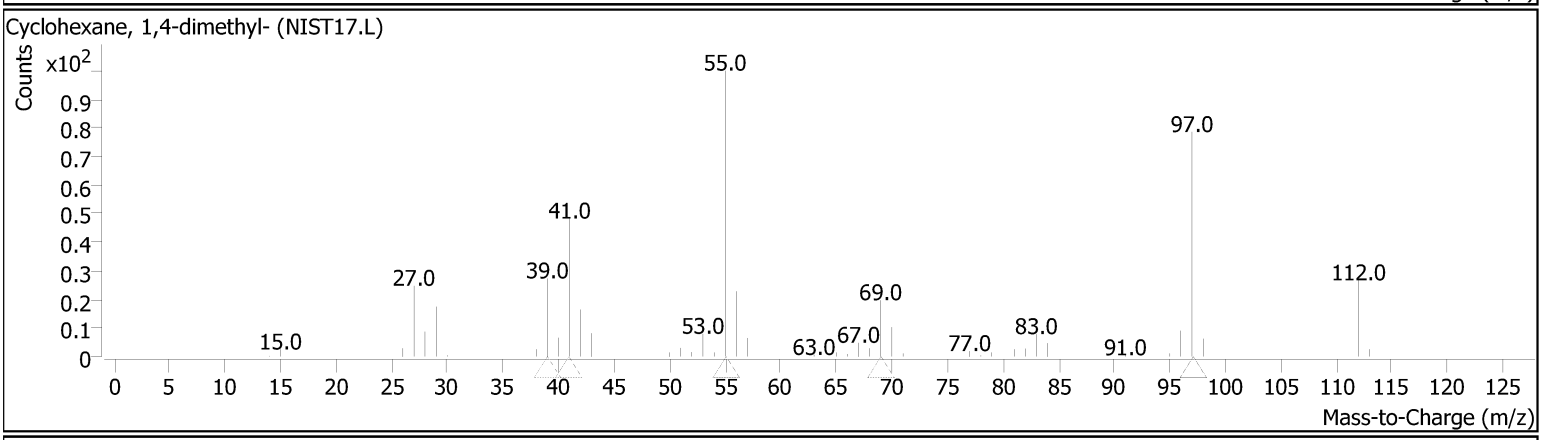



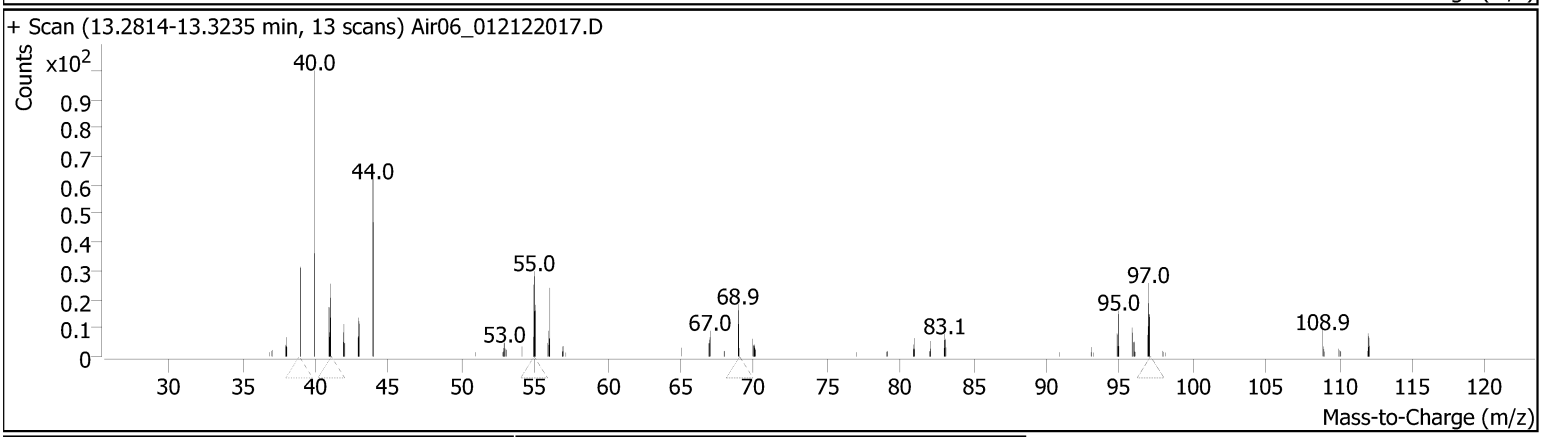



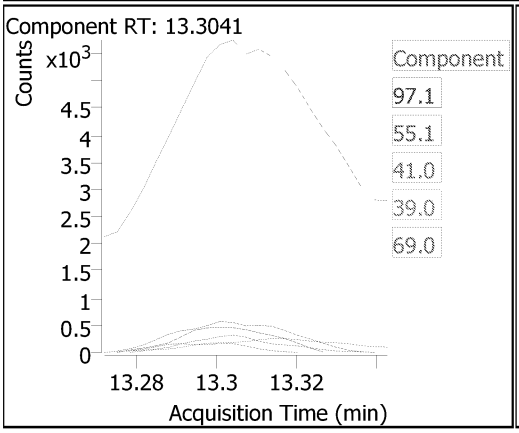


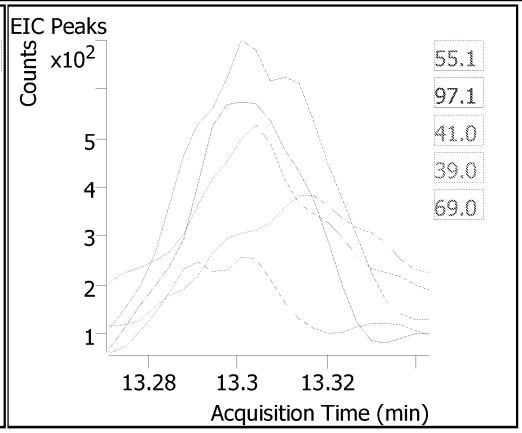

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3041 | Cyclohexane, 1,4-dimethyl- | 8939.9 | 88.6 | 589-90-2 | C8H16 | 0.01921 |

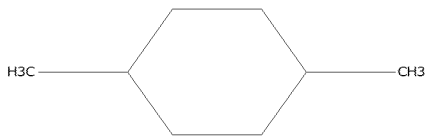


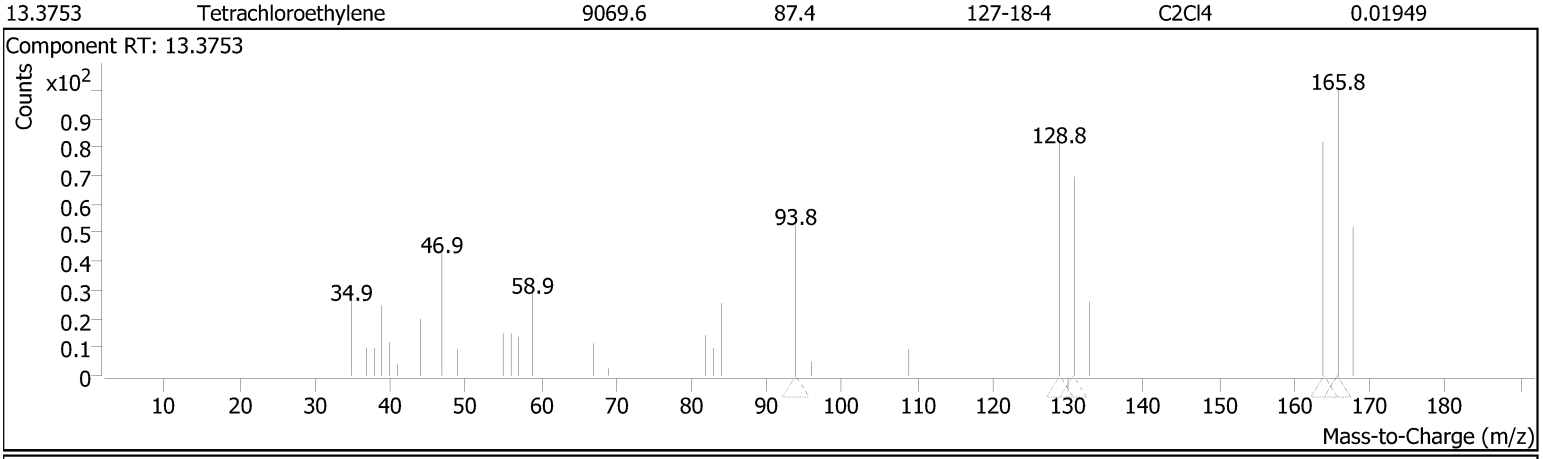



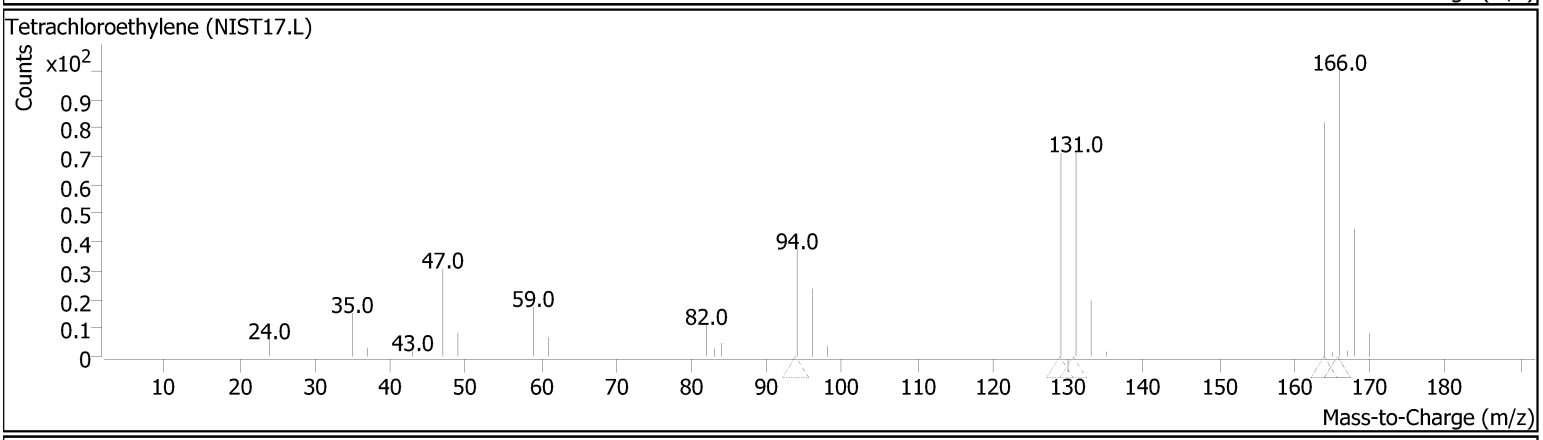



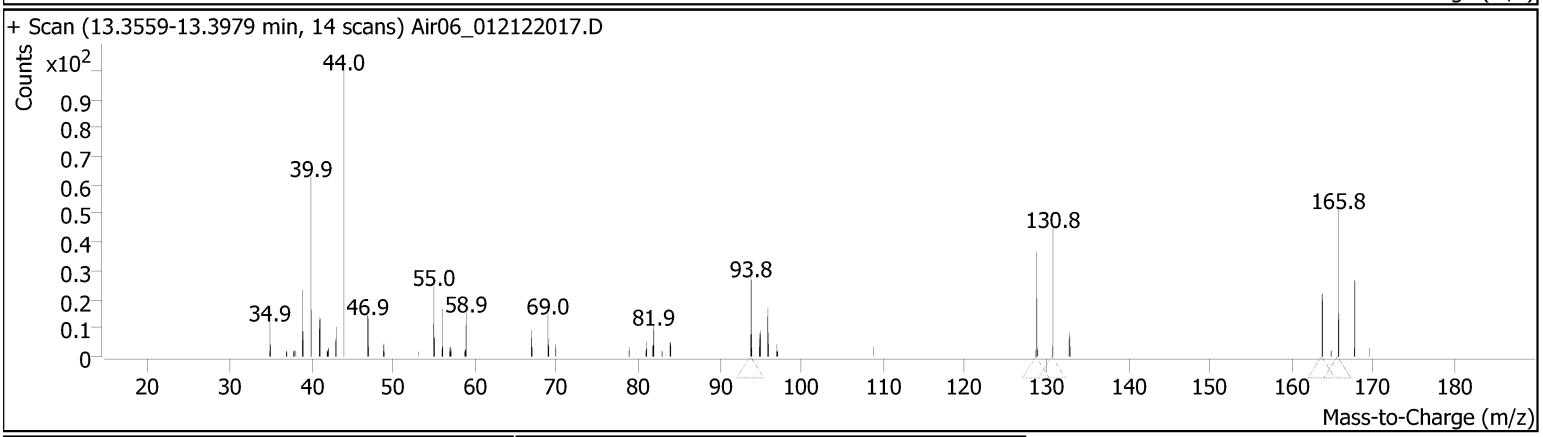



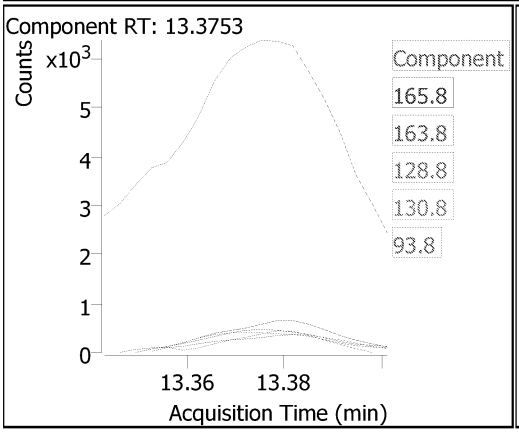



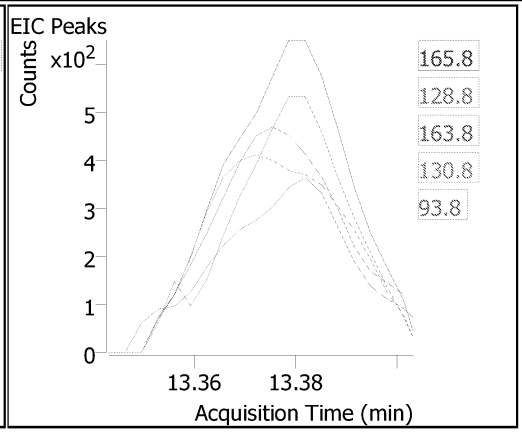
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3753 | Tetrachloroethylene | 9069.6 | 87.4 | 127-18-4 | C2Cl4 | 0.01949 |

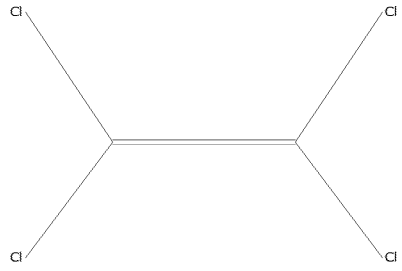


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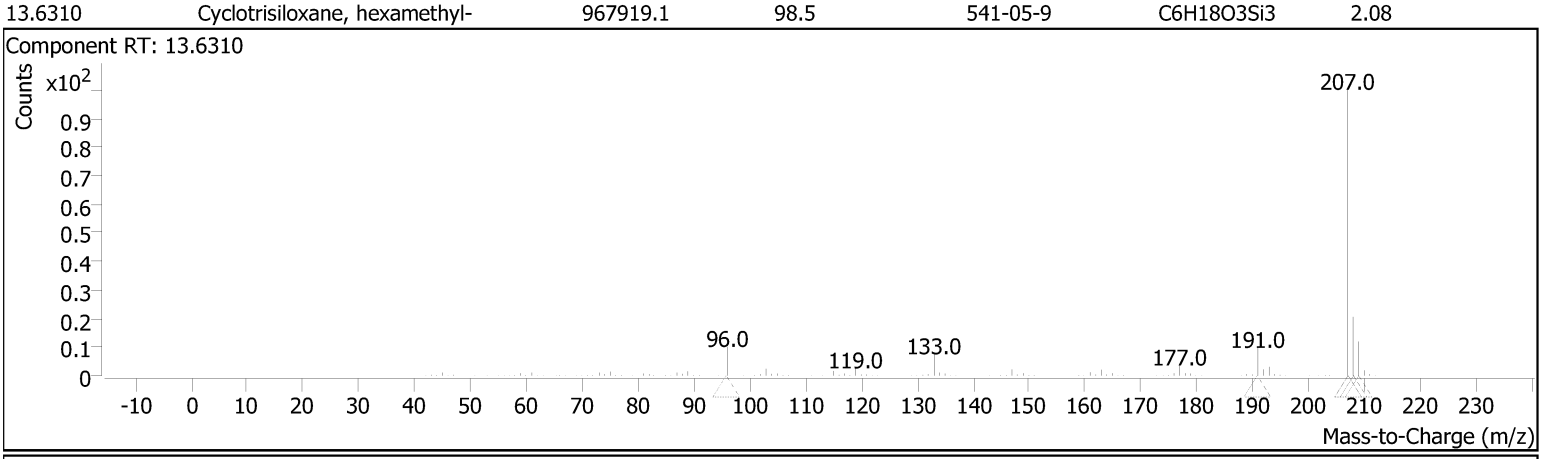
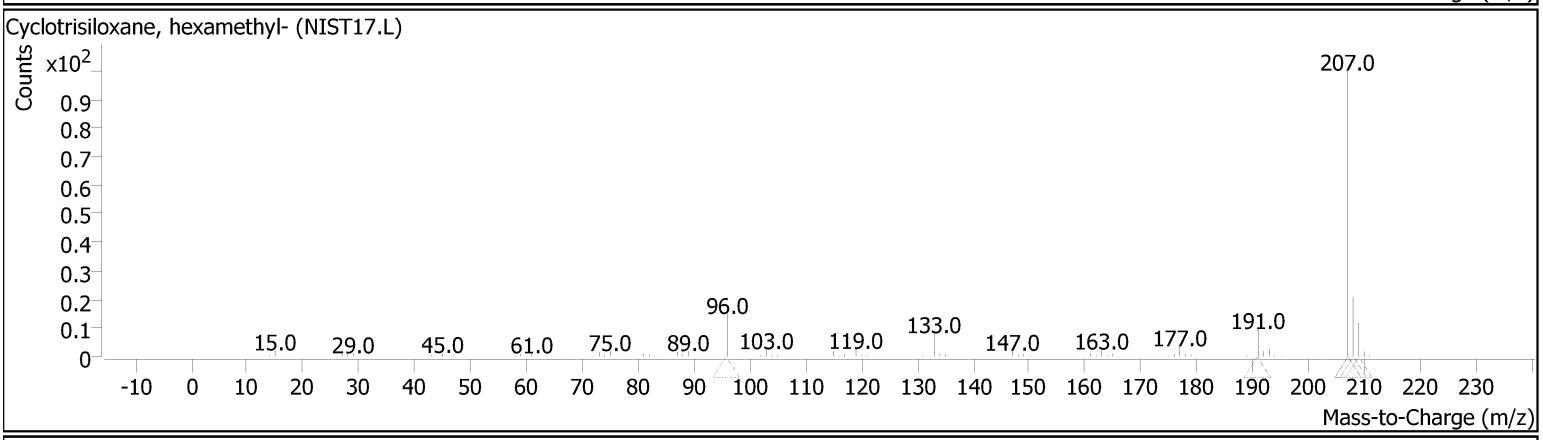
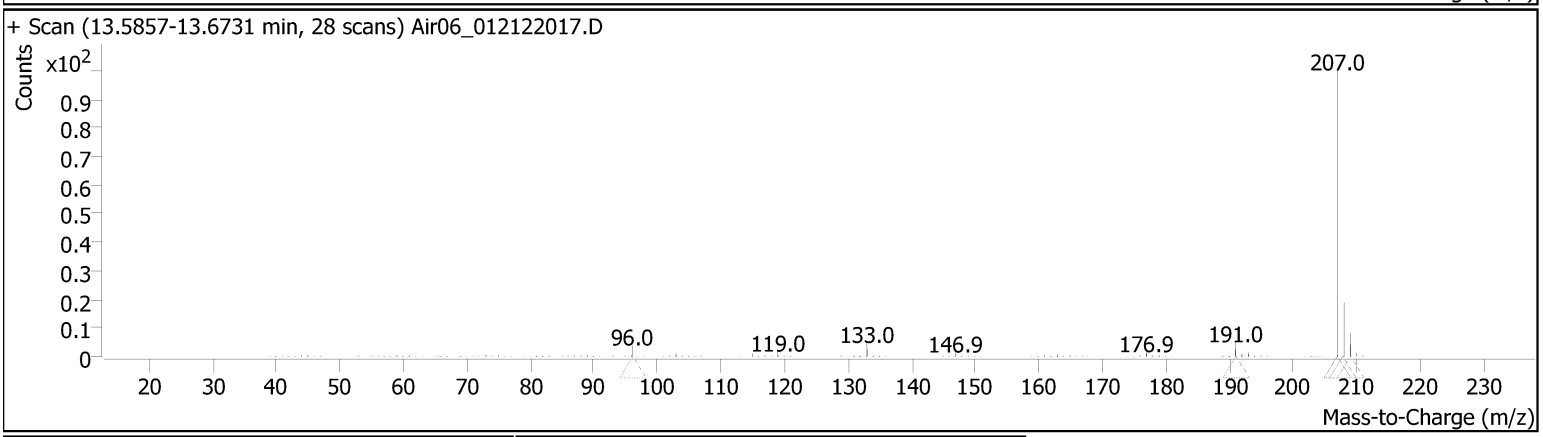
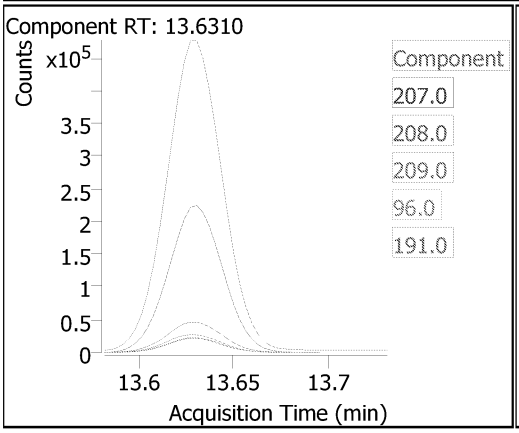
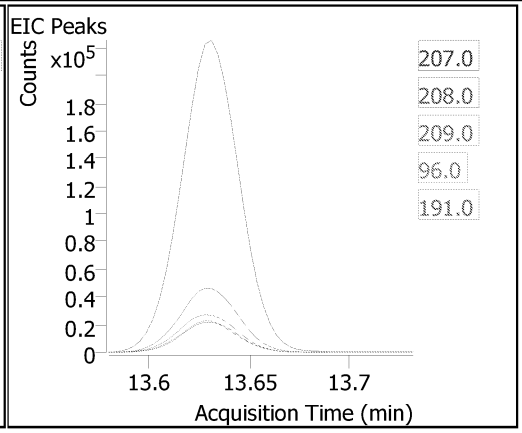
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.6310 | Cyclotrisiloxane, hexamethyl- | 967919.1 | 98.5 | 541-05-9 | C6H18O3Si3 | 2.08 |

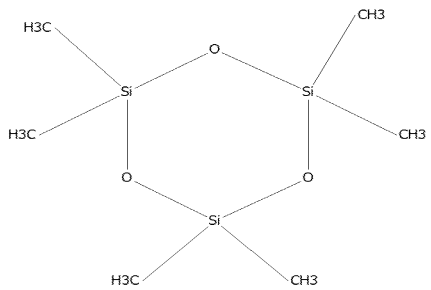


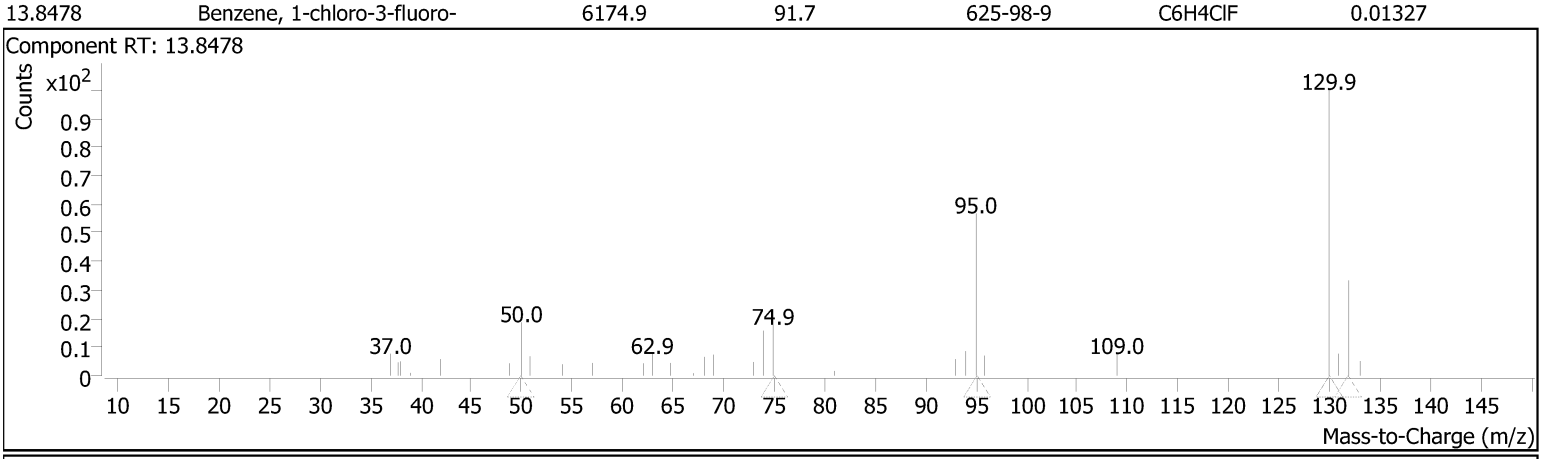



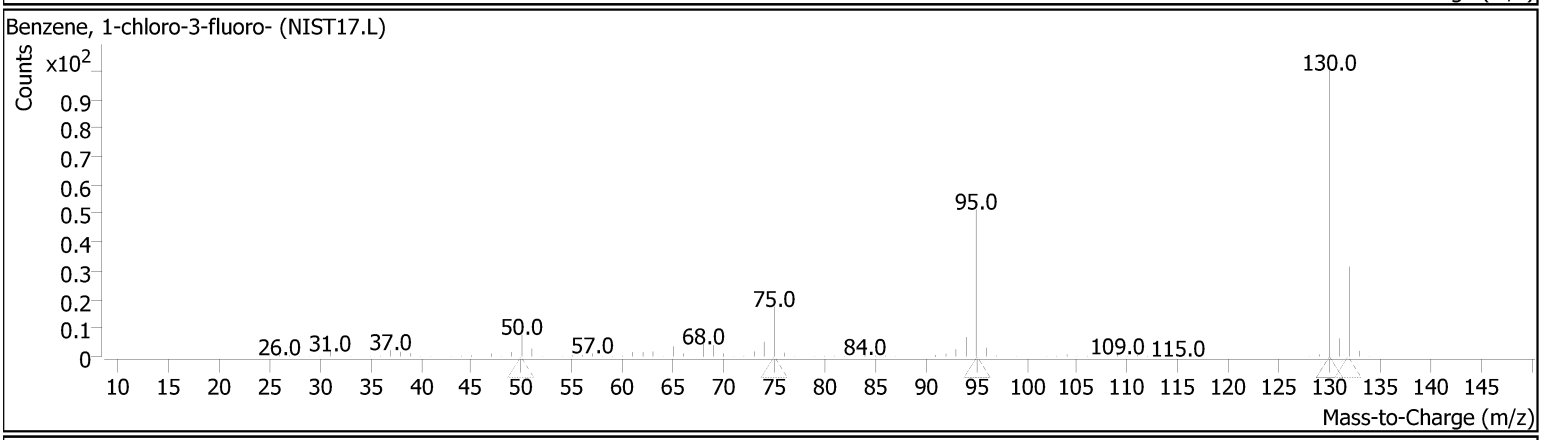



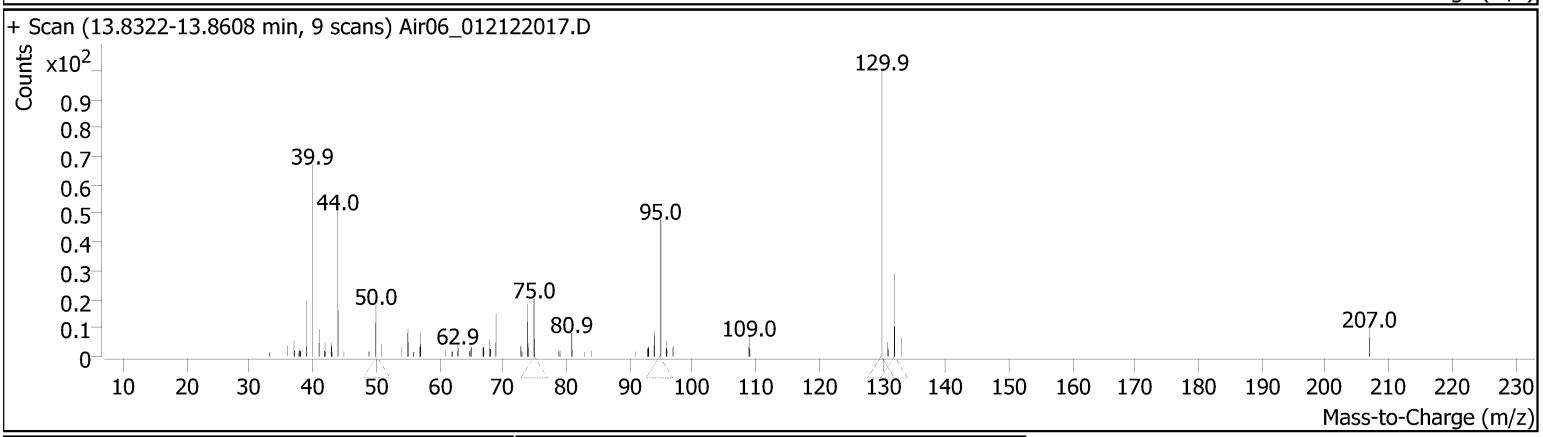



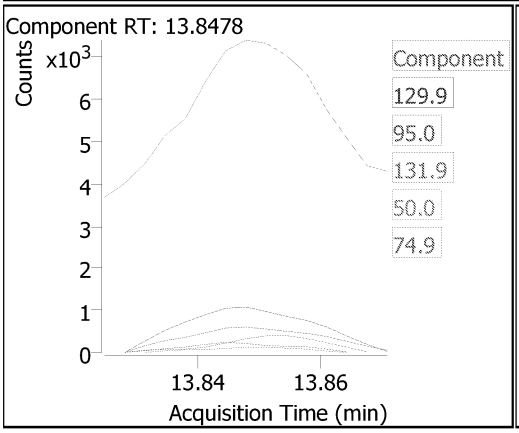



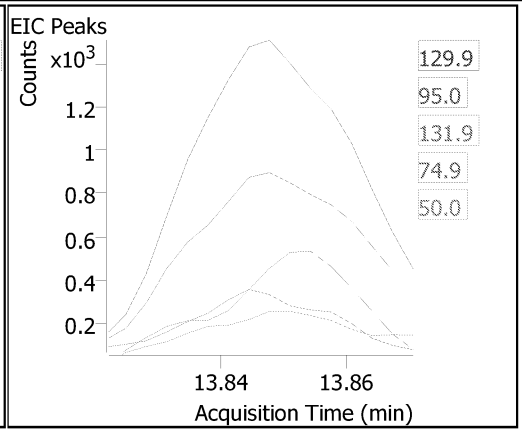
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.8478 | Benzene, 1-chloro-3-fluoro- | 6174.9 | 91.7 | 625-98-9 | C6H4ClF | 0.01327 |

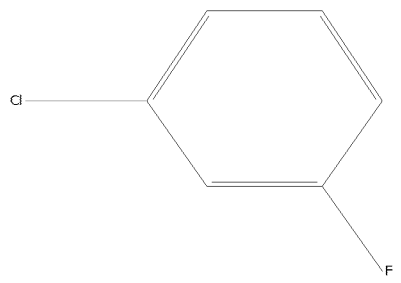


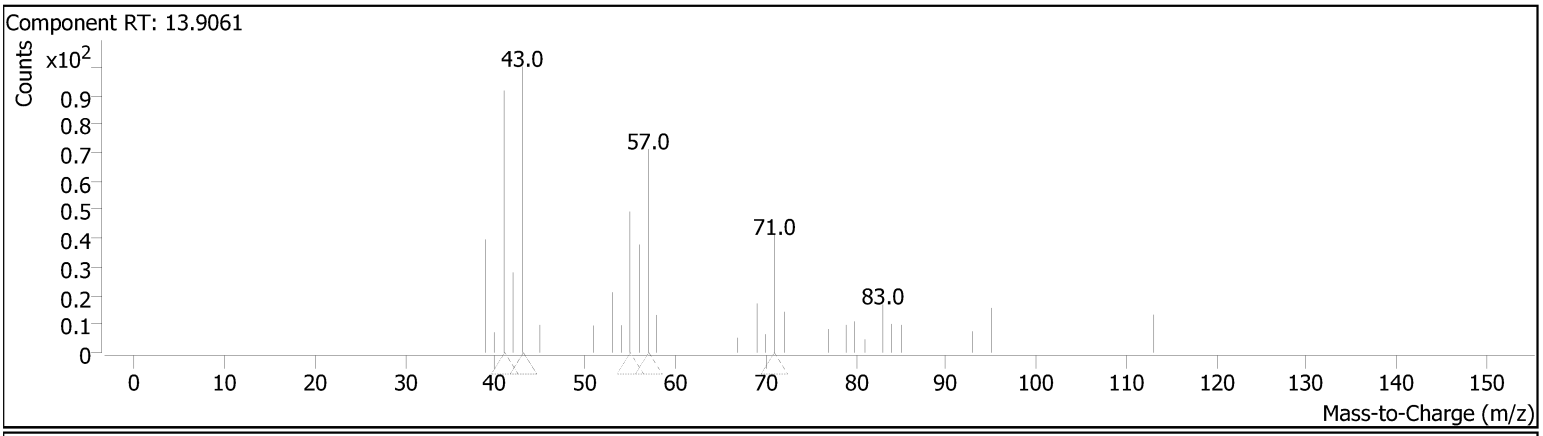



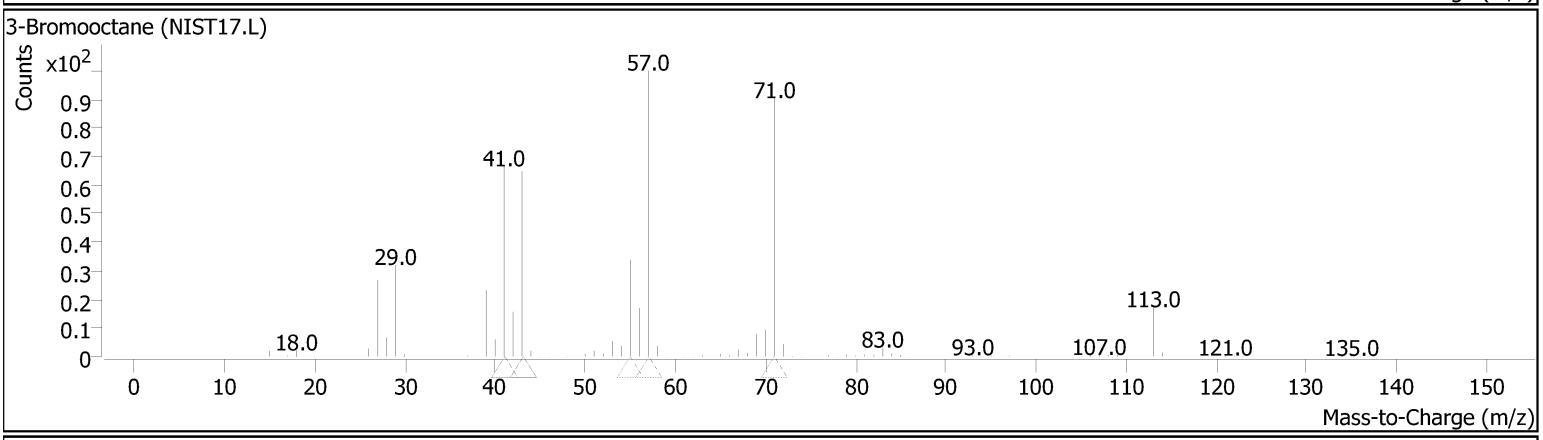



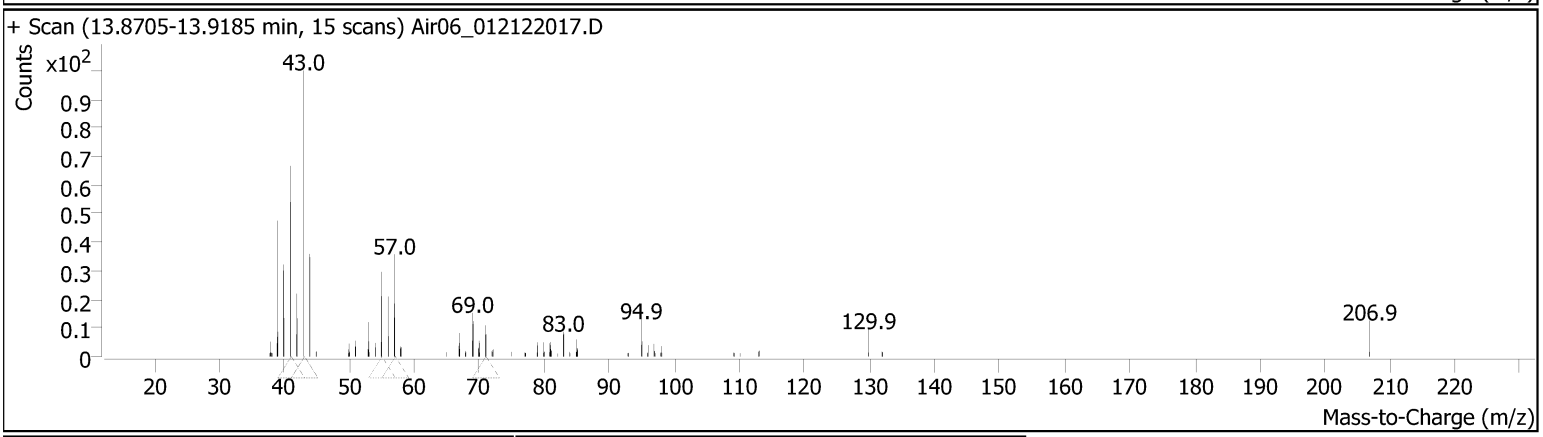



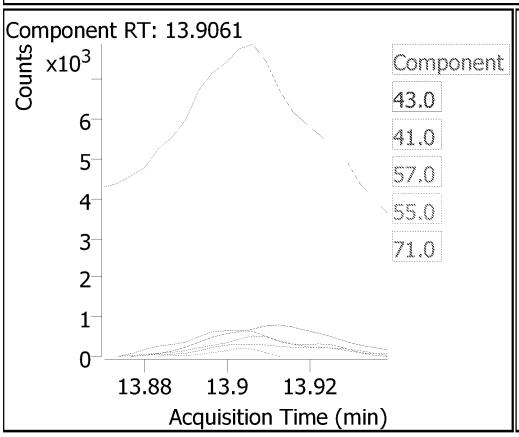



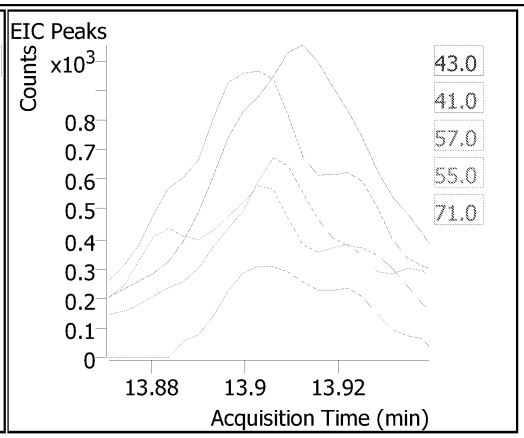
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.9061 | 3-Bromooctane | 9589.9 | 83.5 | 999-64-4 | C8H17Br | 0.02061 |

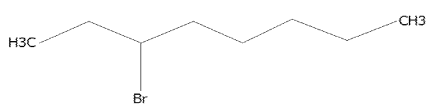


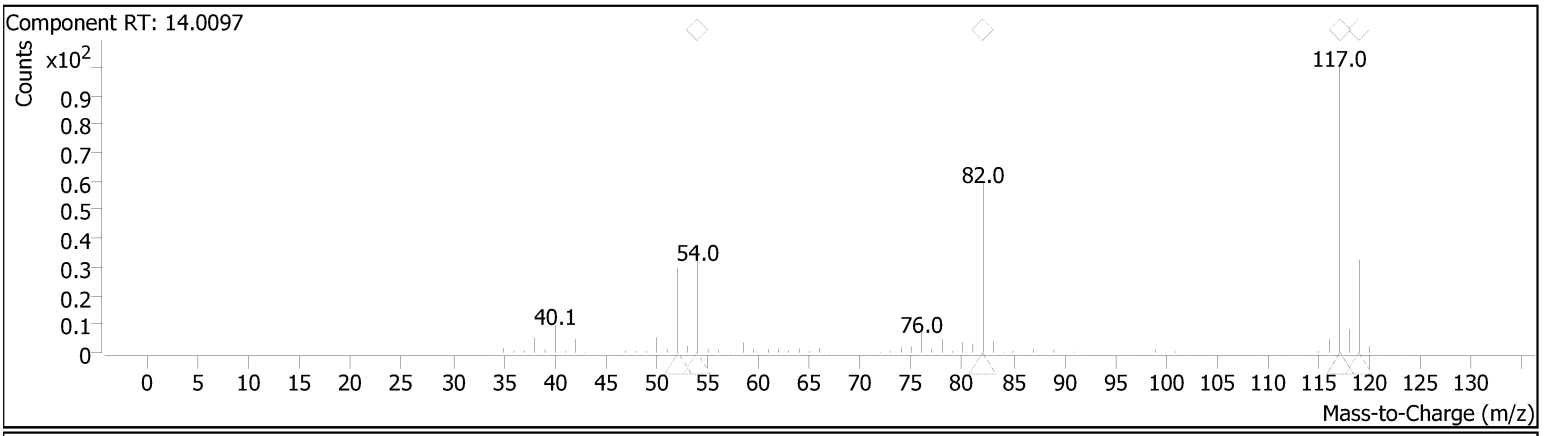



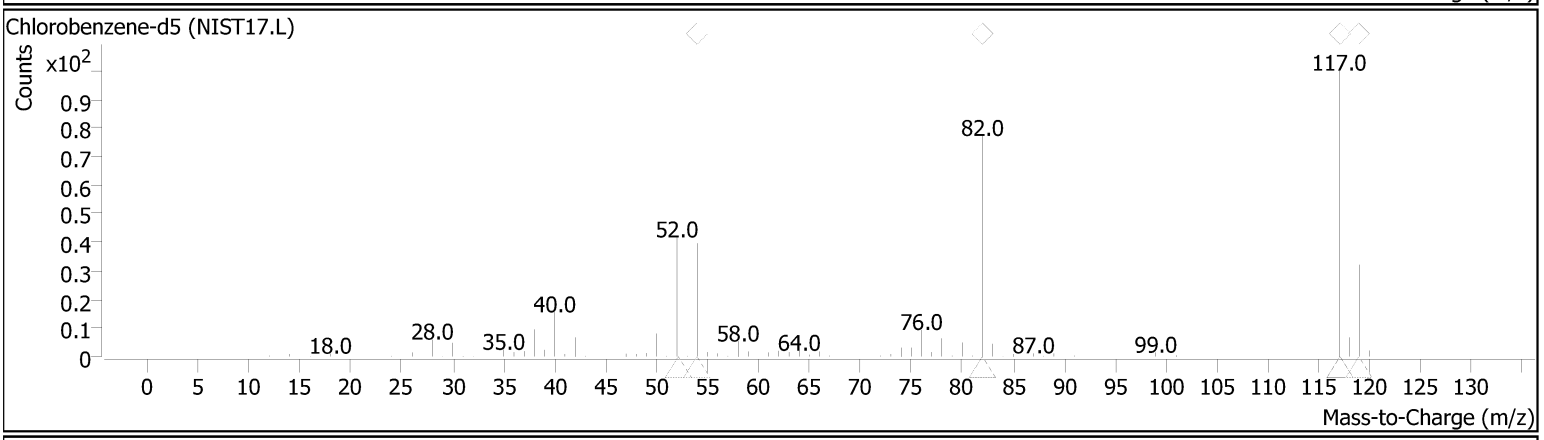



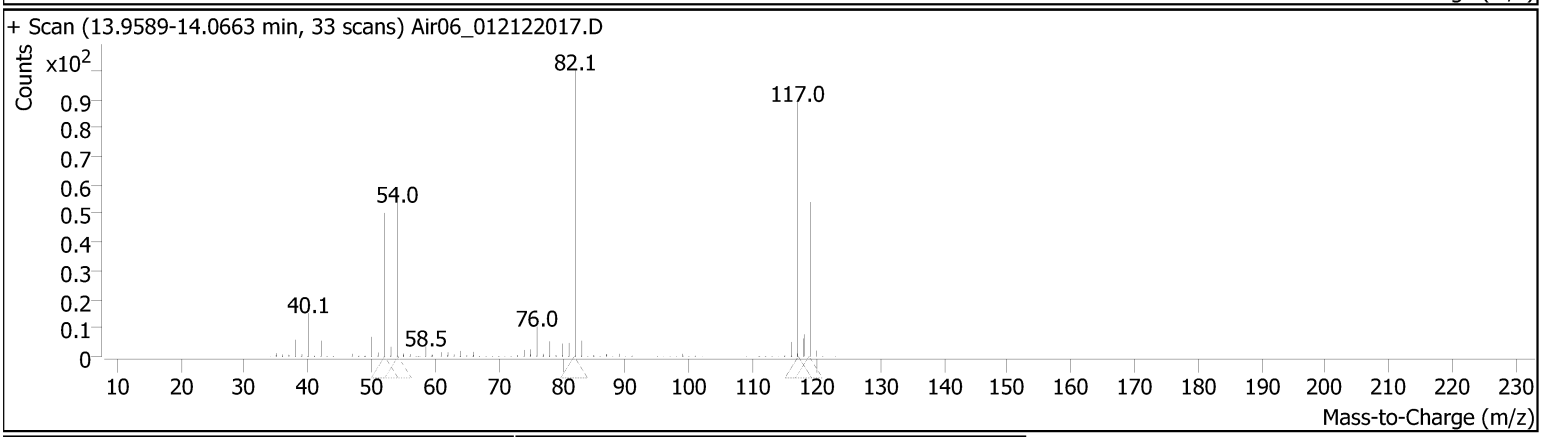



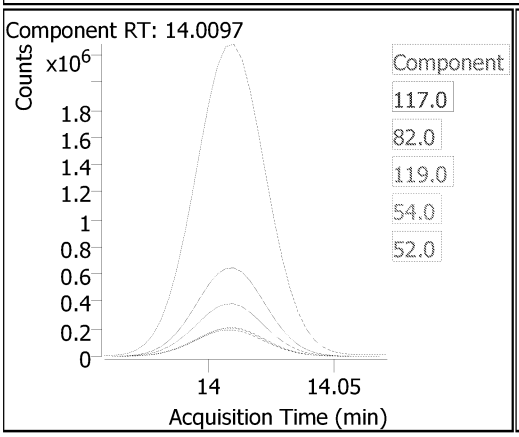



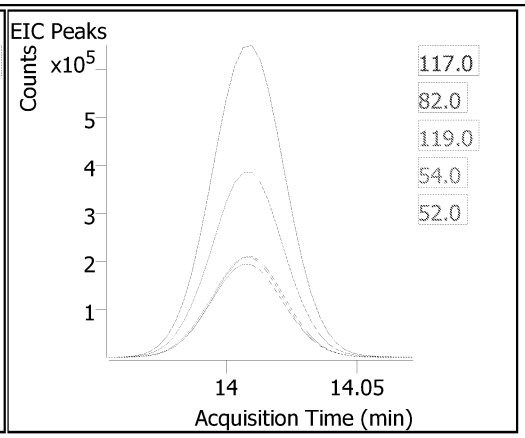
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0097 | Chlorobenzene-d5 | 4653700.5 | 95.7 | 3114-55-4 | C6D5Cl | 10 |

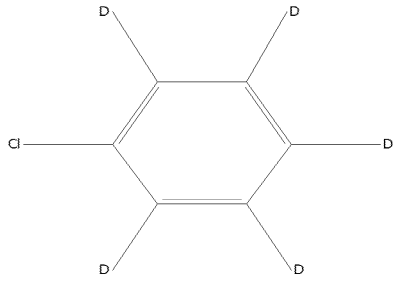


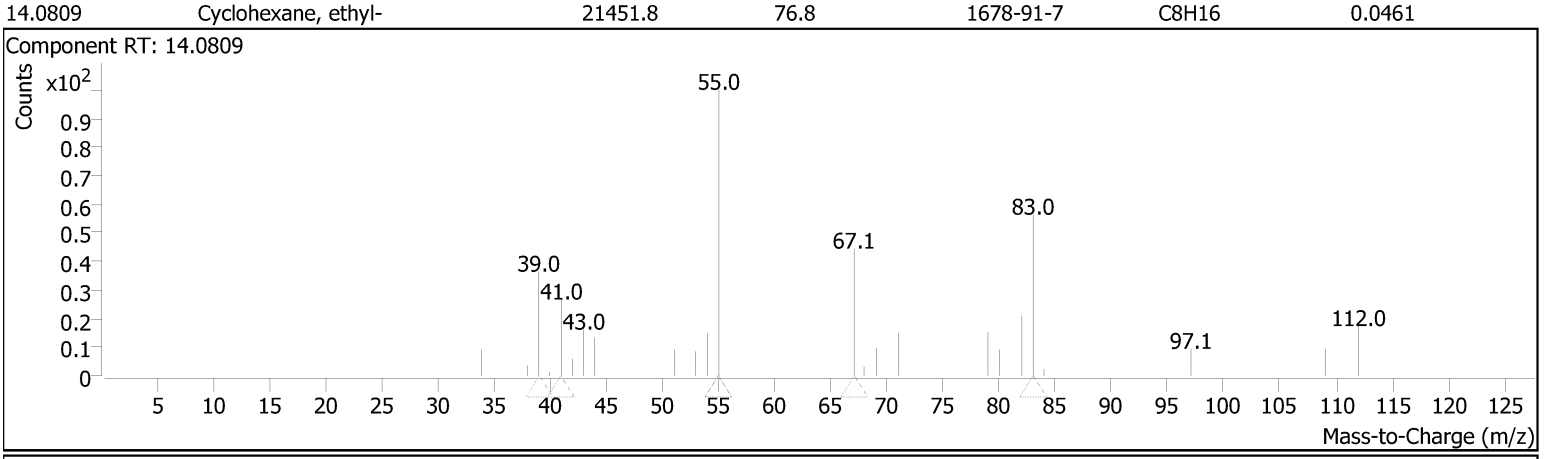



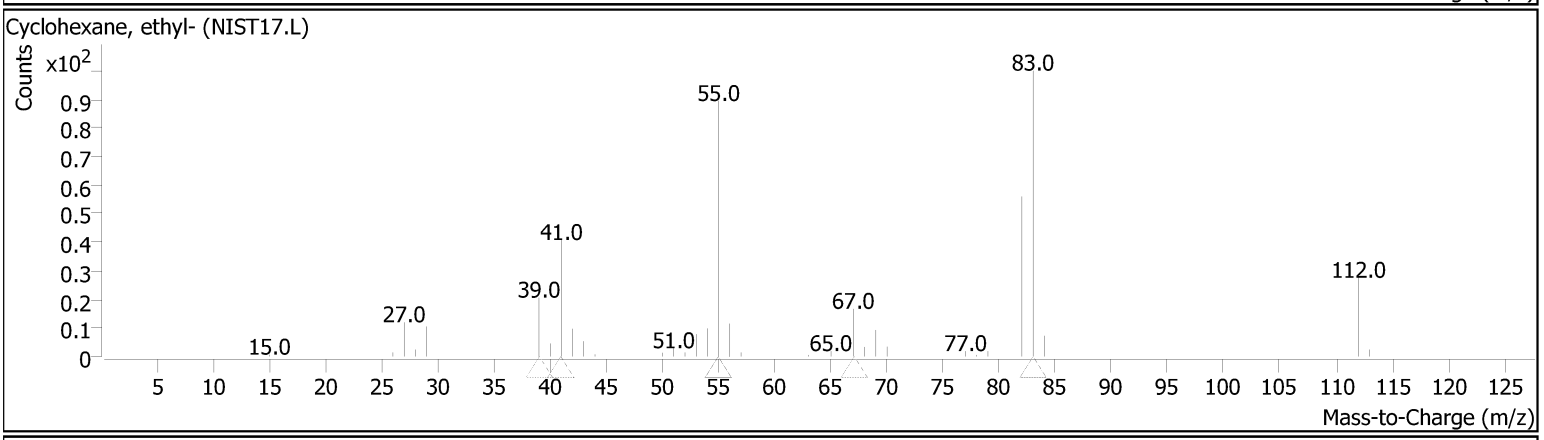



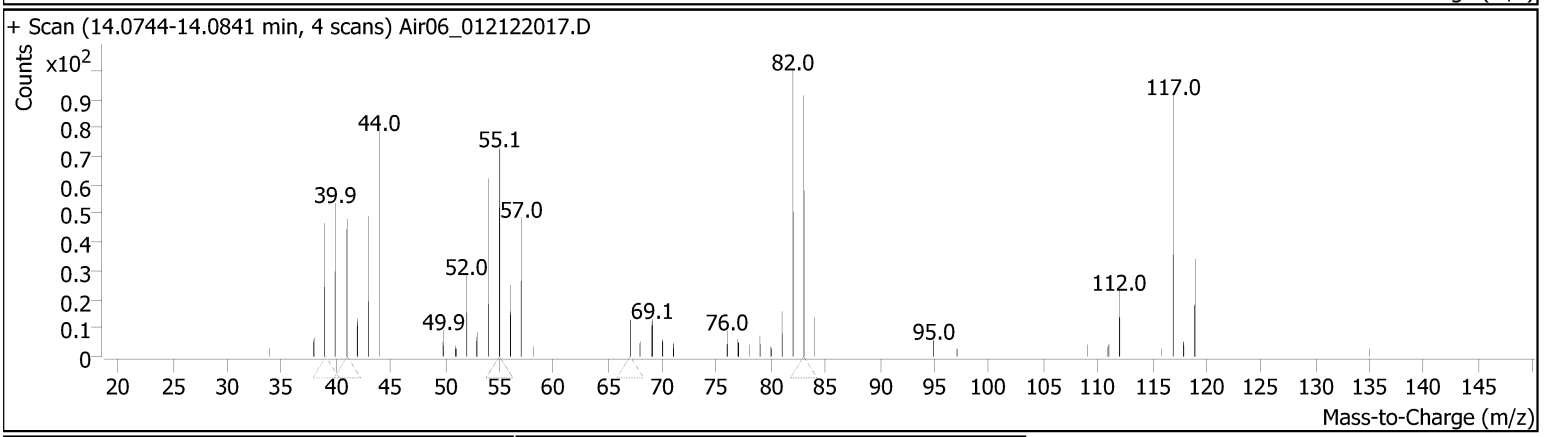



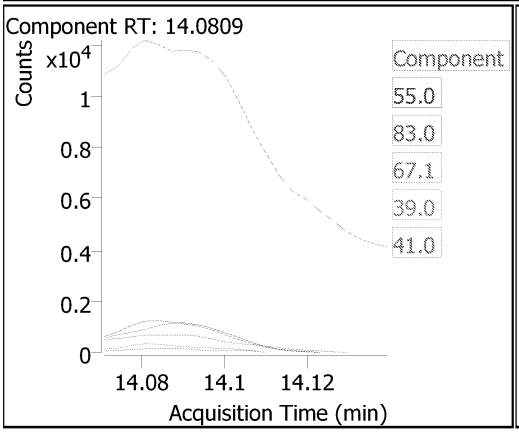



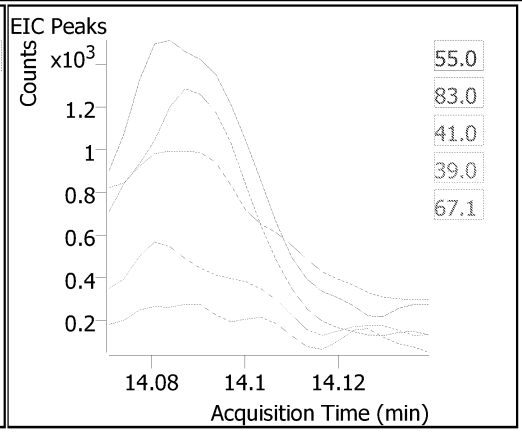
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0809 | Cyclohexane, ethyl- | 21451.8 | 76.8 | 1678-91-7 | C8H16 | 0.0461 |

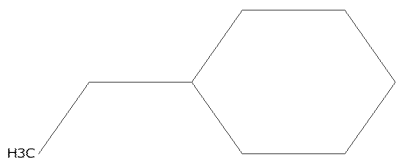


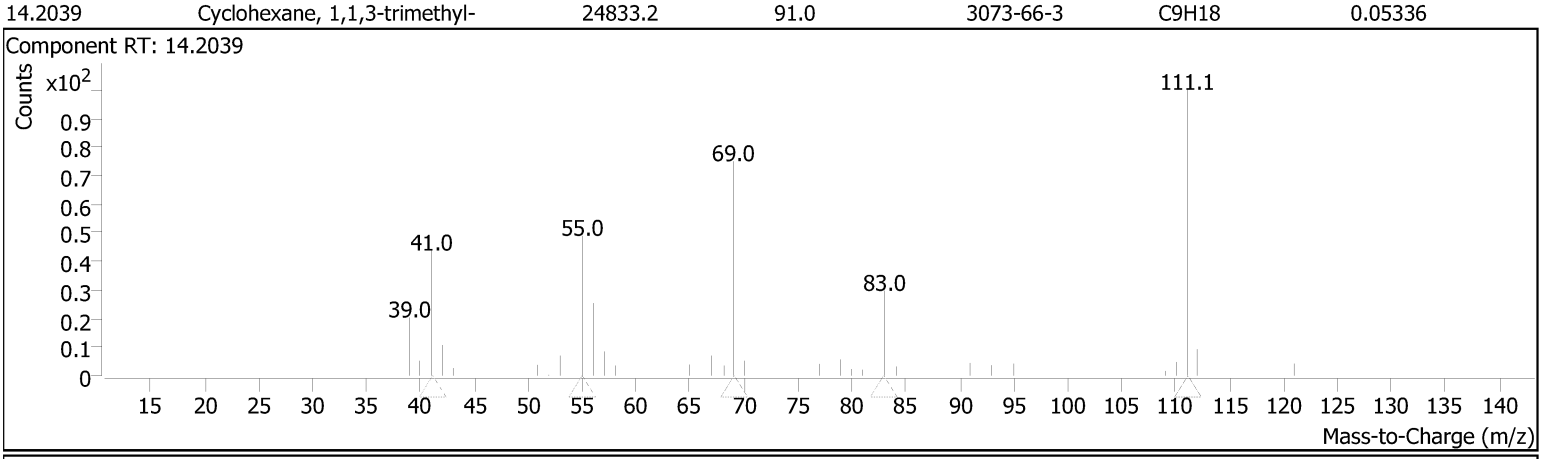



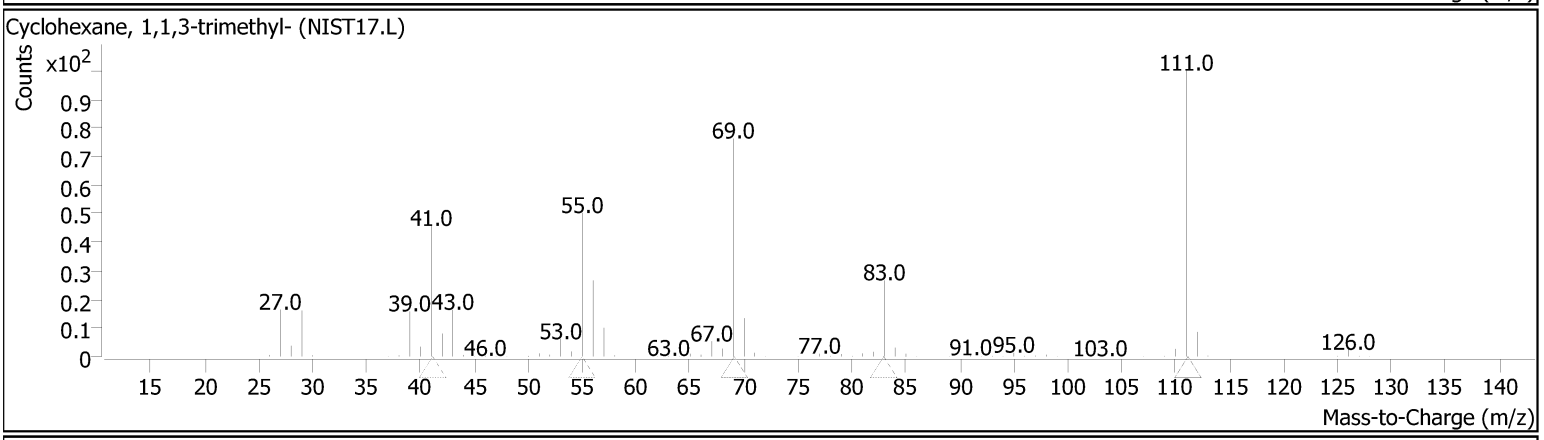



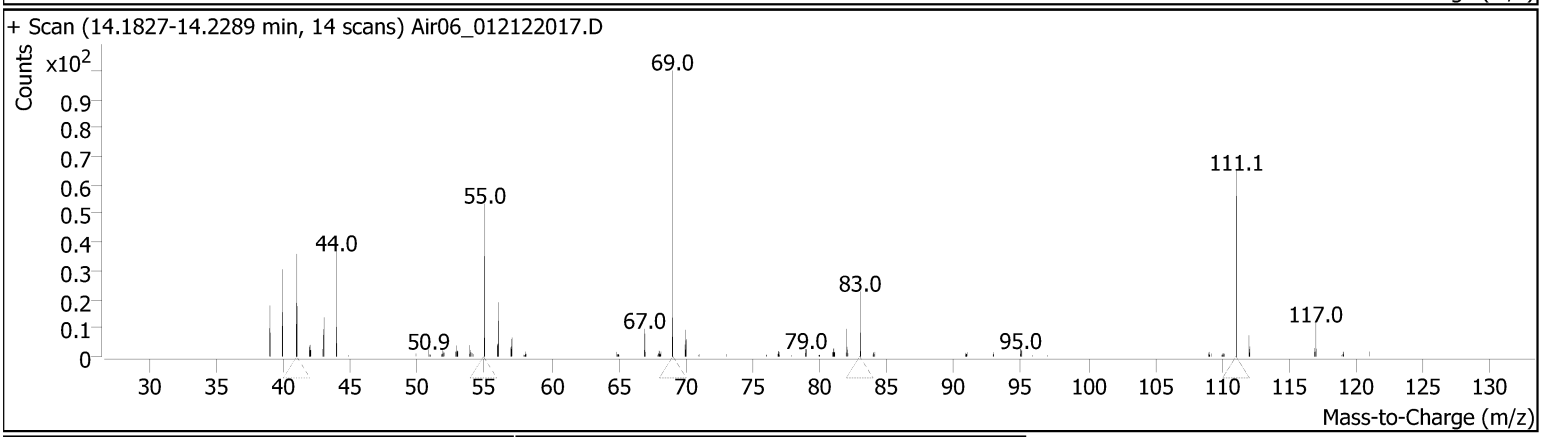



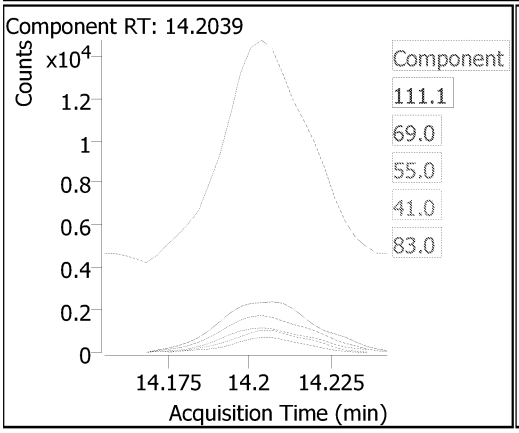



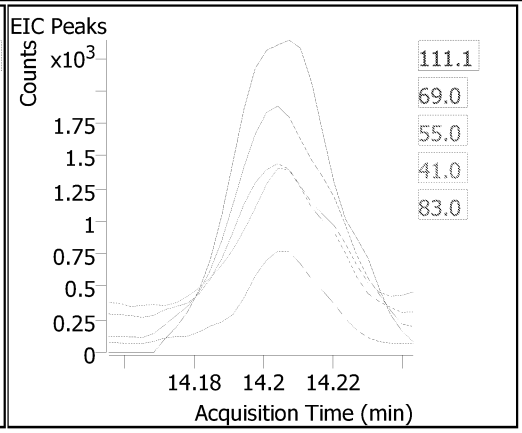
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.2039 | Cyclohexane, 1,1,3-trimethyl- | 24833.2 | 91.0 | 3073-66-3 | C9H18 | 0.05336 |

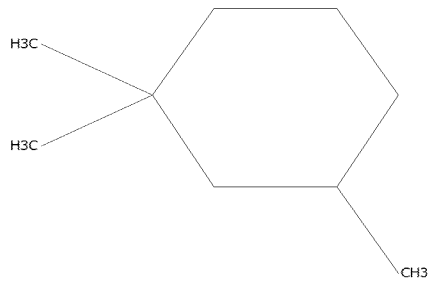


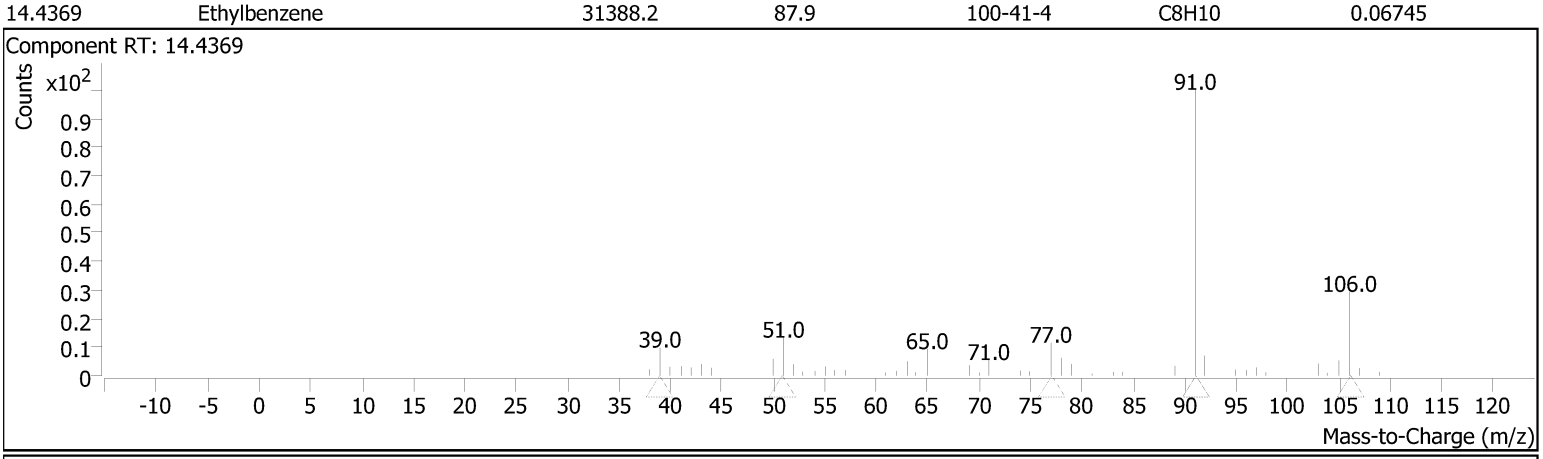



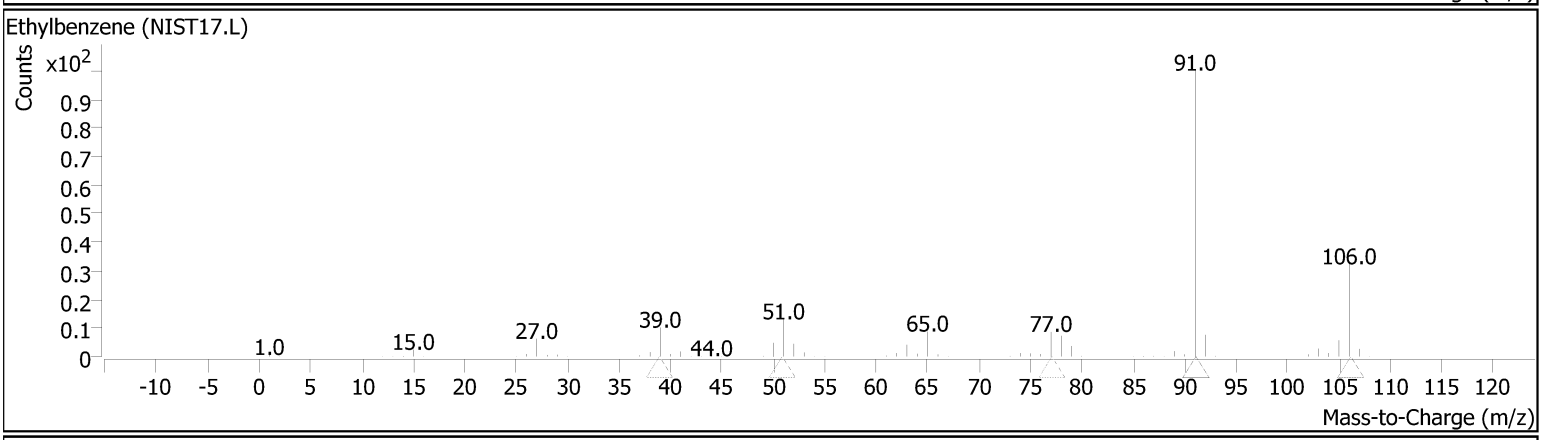



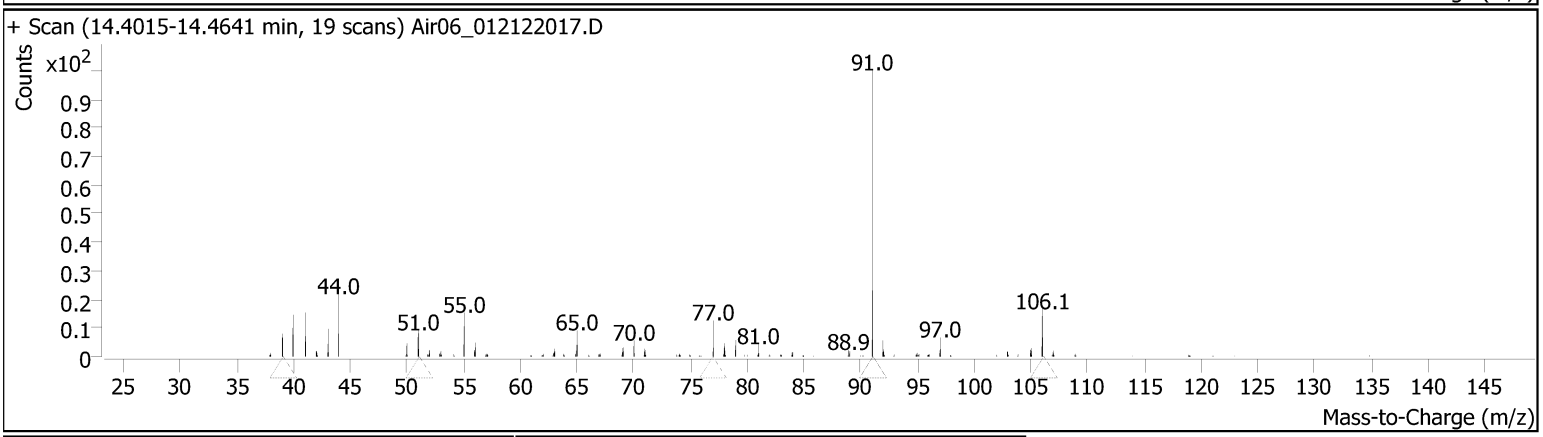



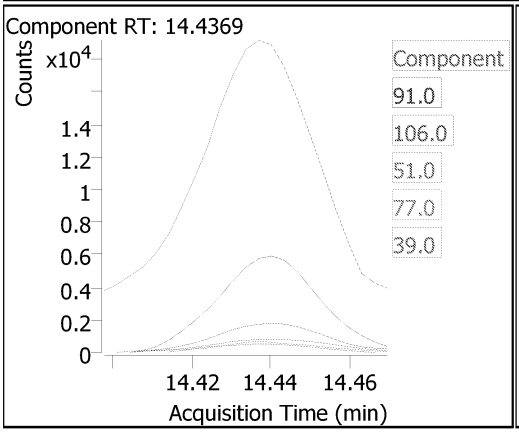



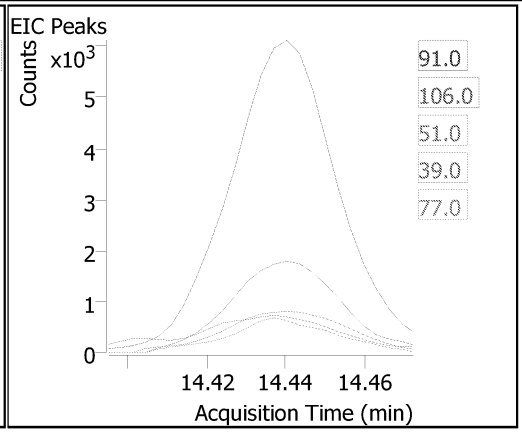
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.4369 | Ethylbenzene | 31388.2 | 87.9 | 100-41-4 | C8H10 | 0.06745 |

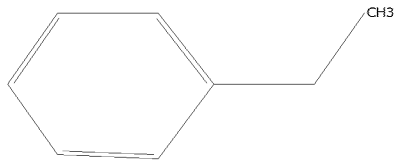


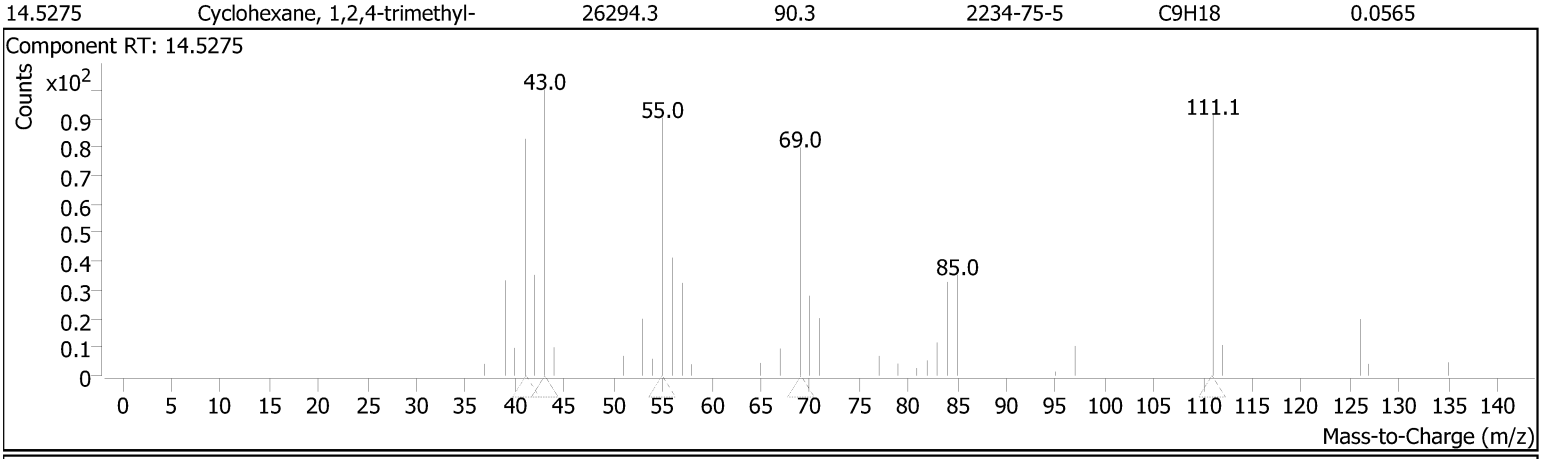



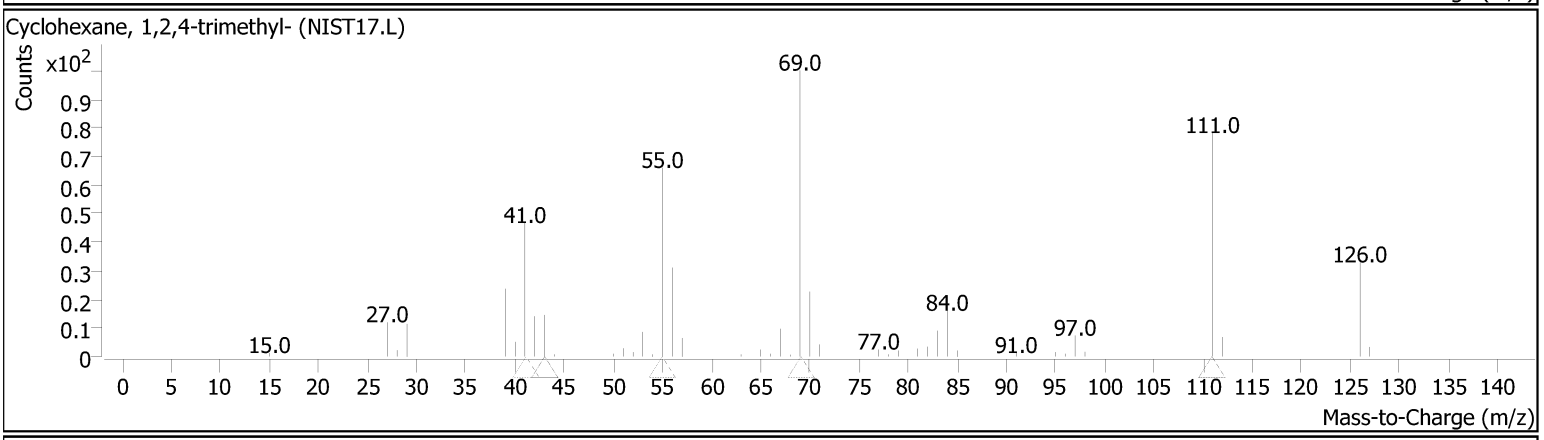



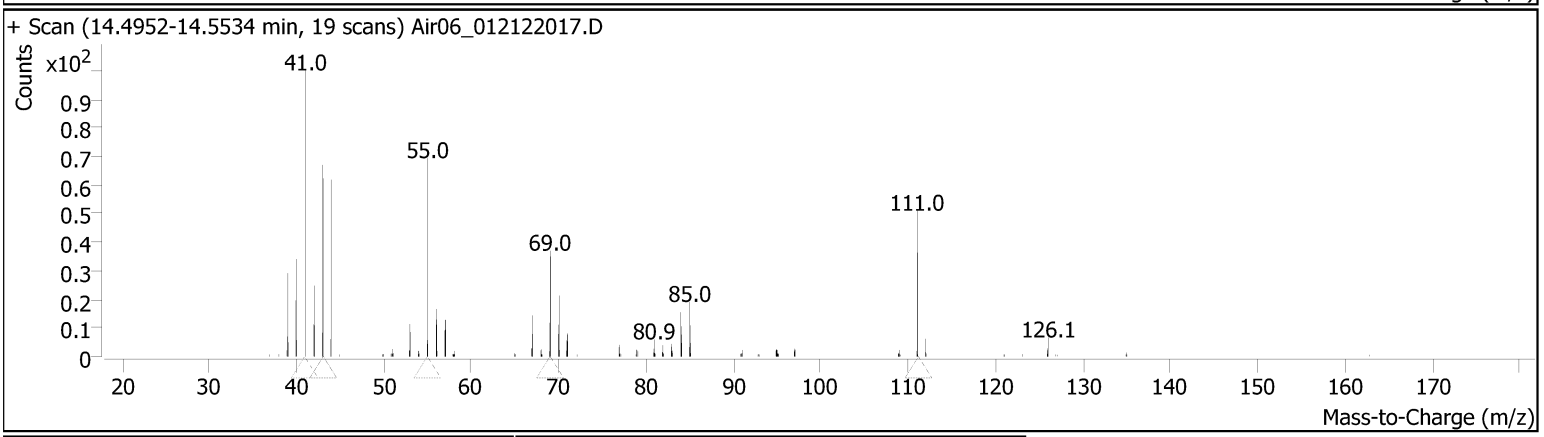



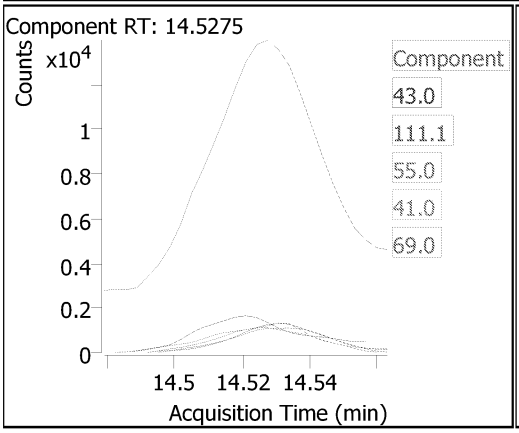



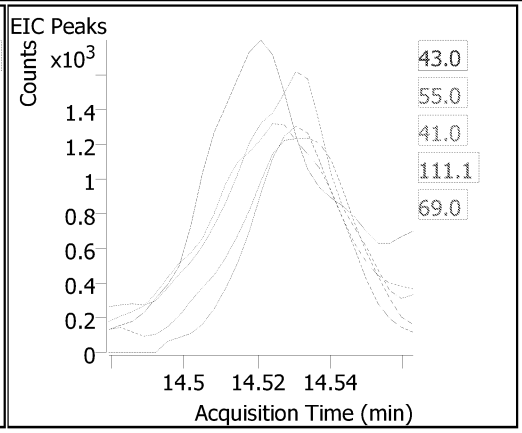
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.5275 | Cyclohexane, 1,2,4-trimethyl- | 26294.3 | 90.3 | 2234-75-5 | C9H18 | 0.0565 |

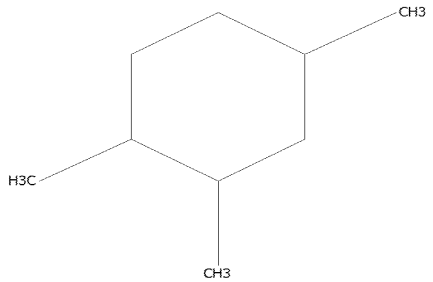


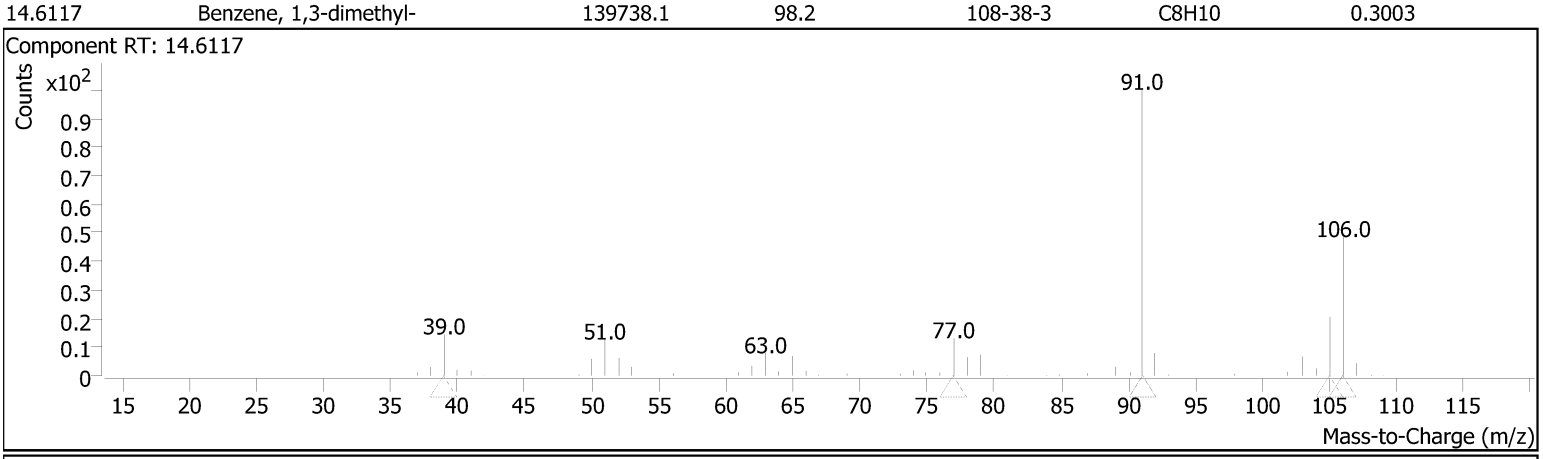



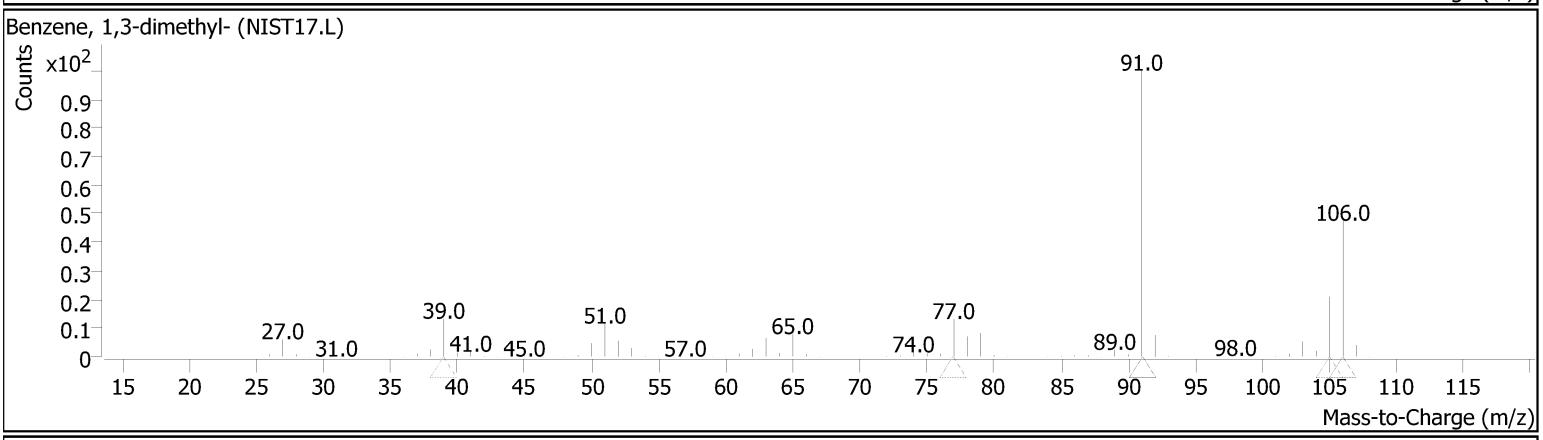



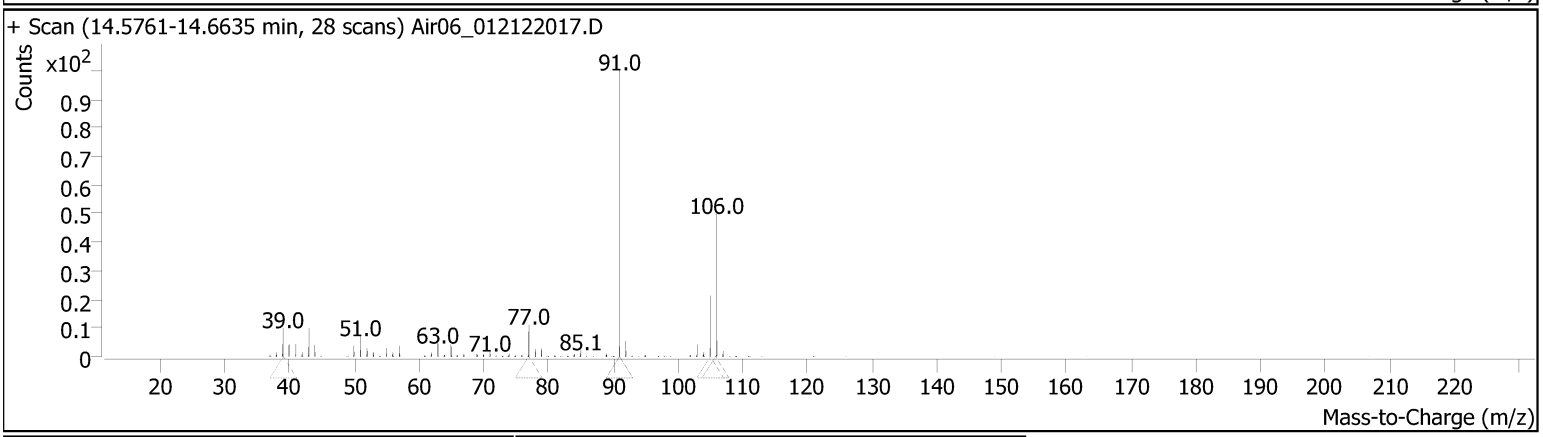



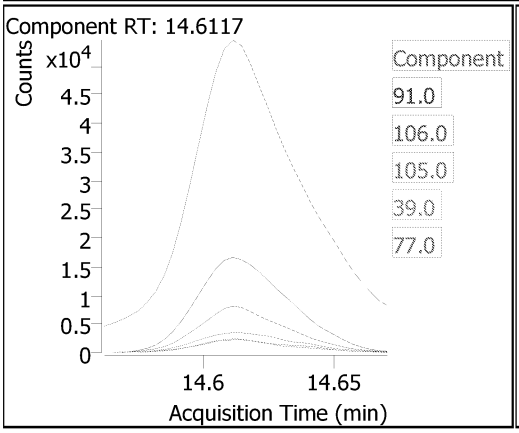



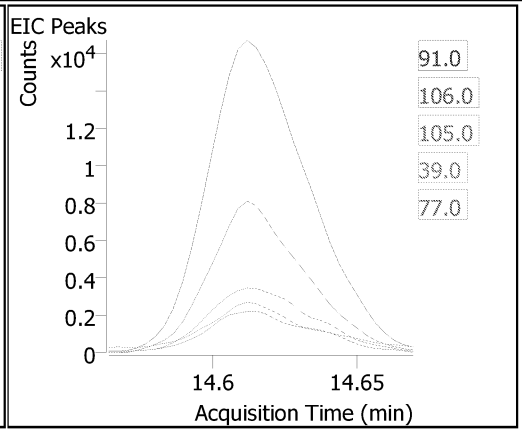
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.6117 | Benzene, 1,3-dimethyl- | 139738.1 | 98.2 | 108-38-3 | C8H10 | 0.3003 |

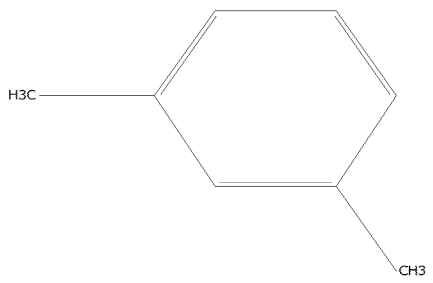


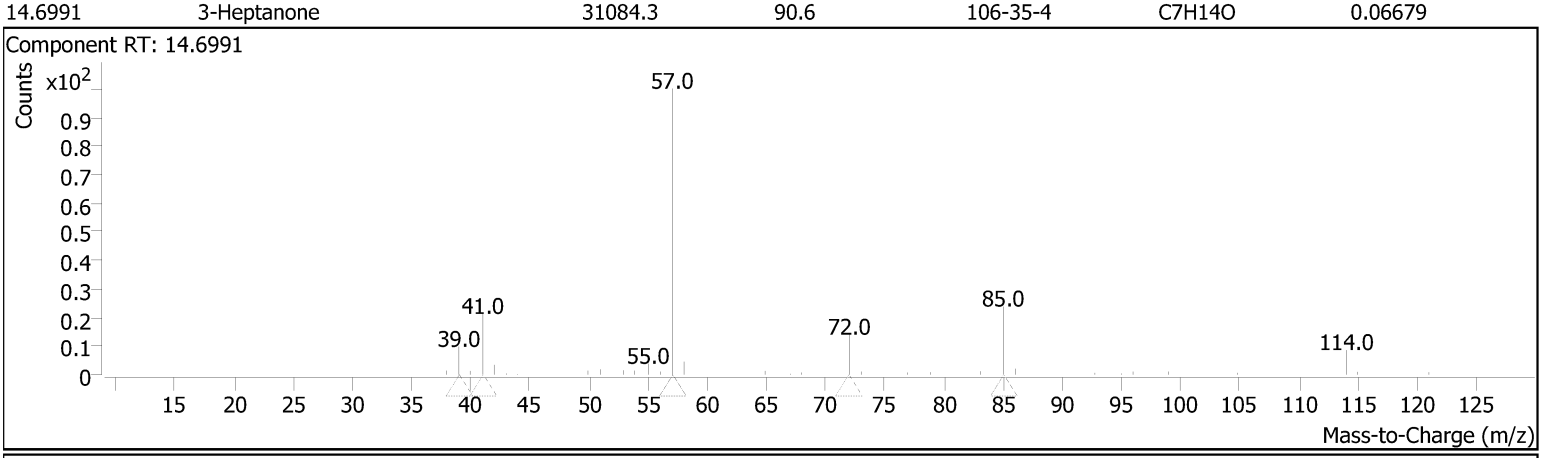



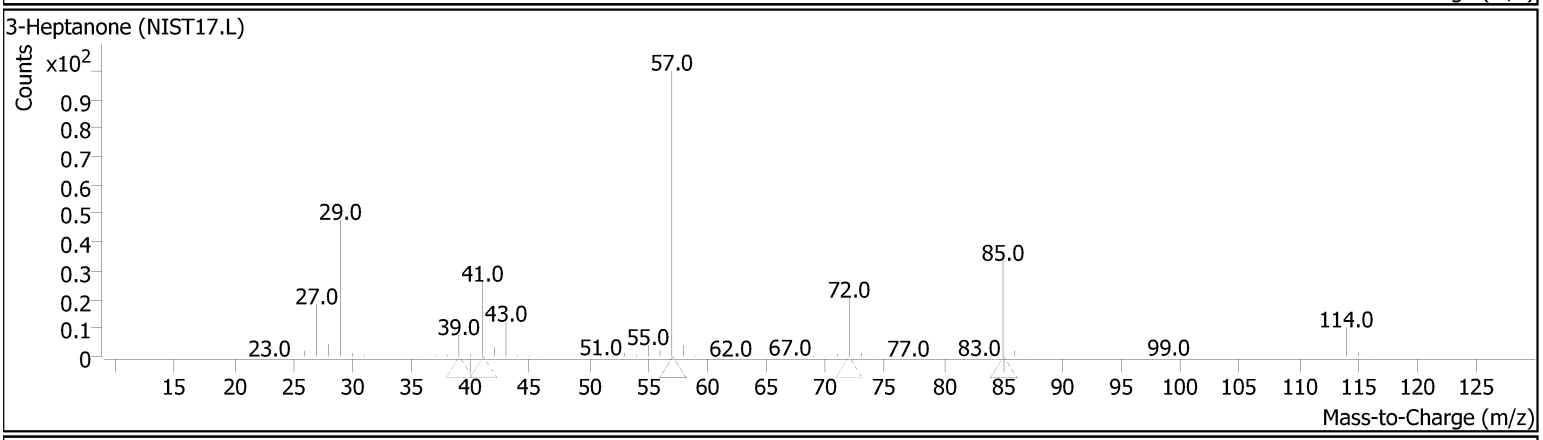



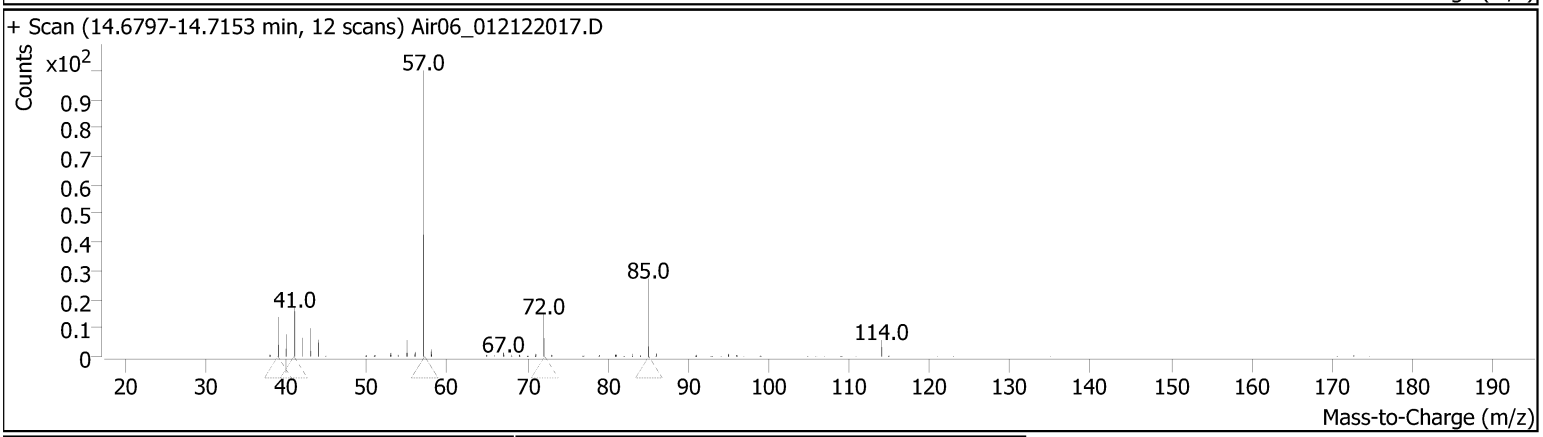



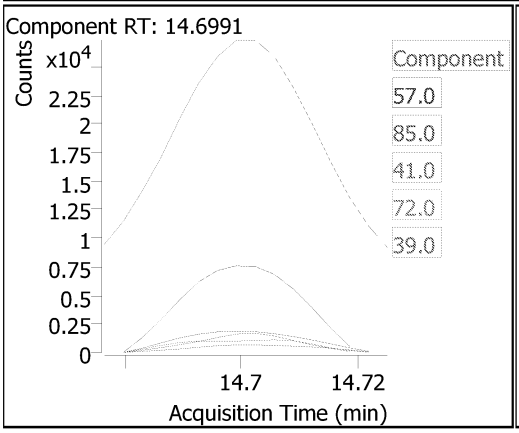



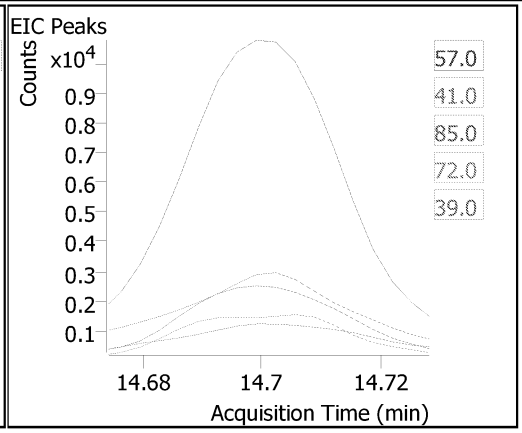
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.6991 | 3-Heptanone | 31084.3 | 90.6 | 106-35-4 | C7H14O | 0.06679 |

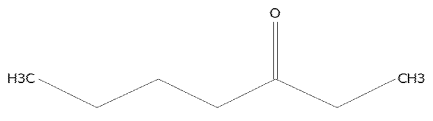


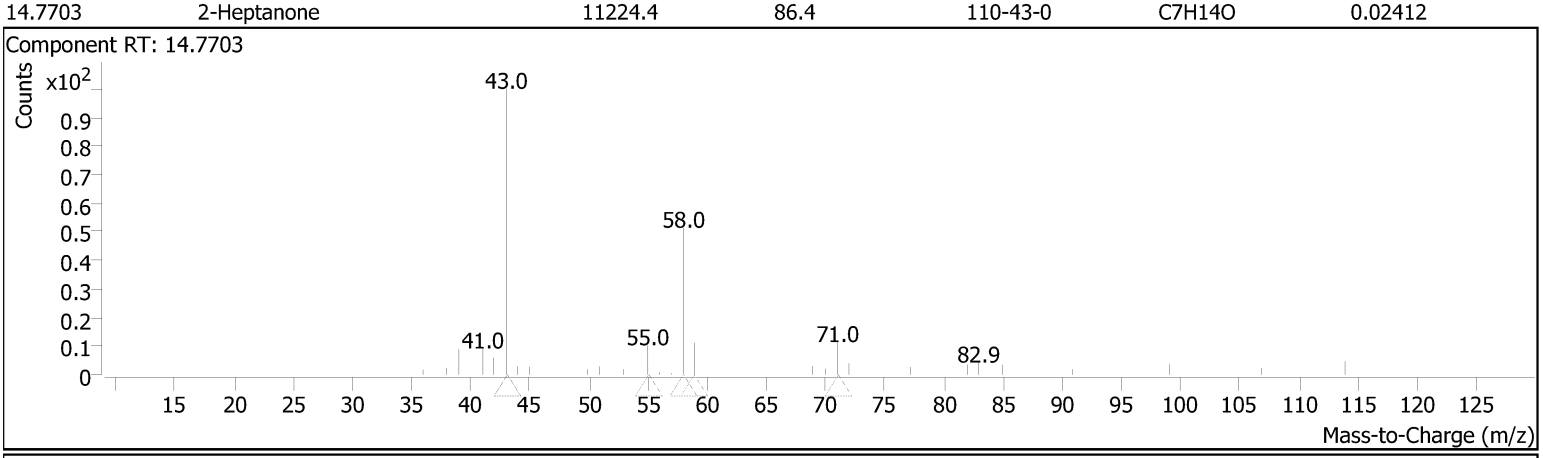



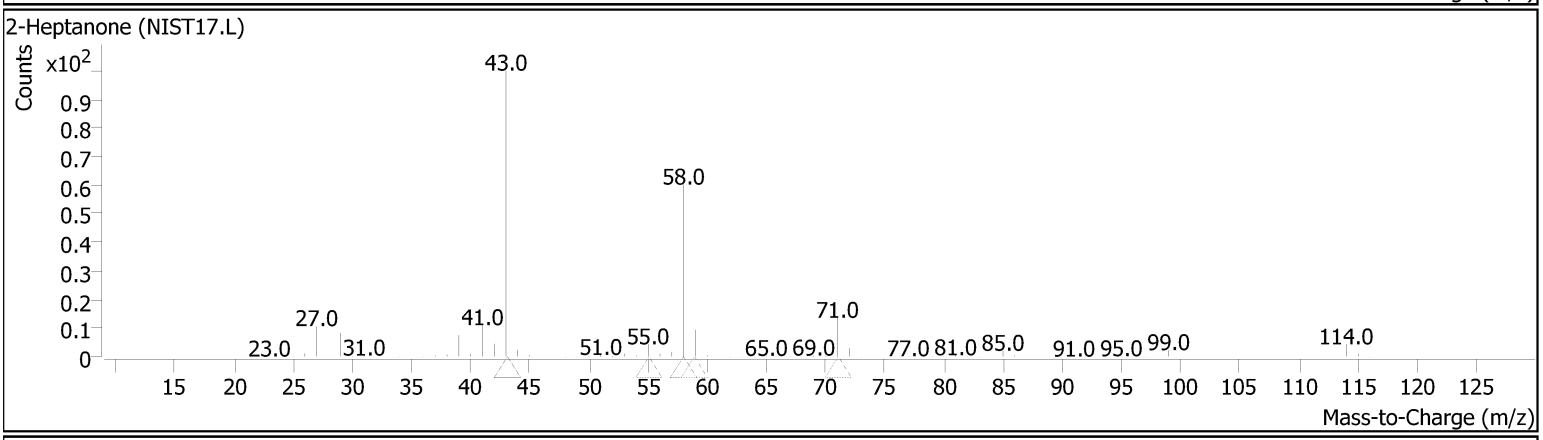



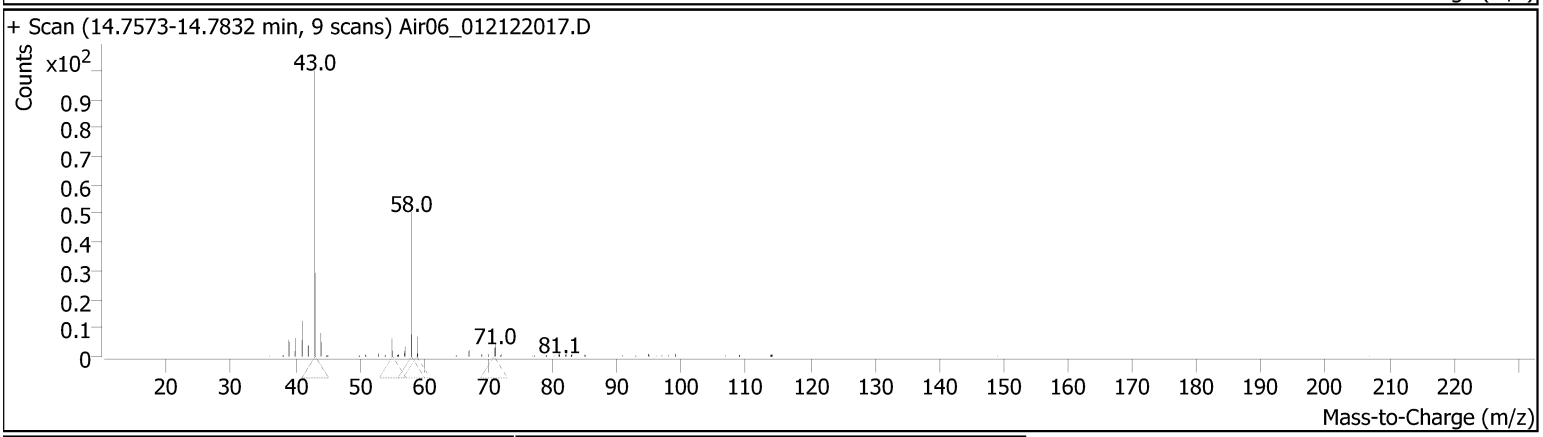



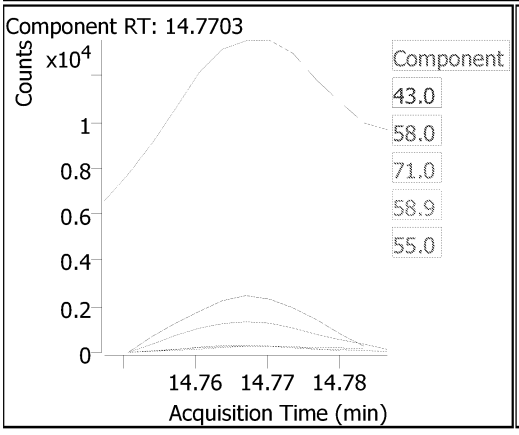



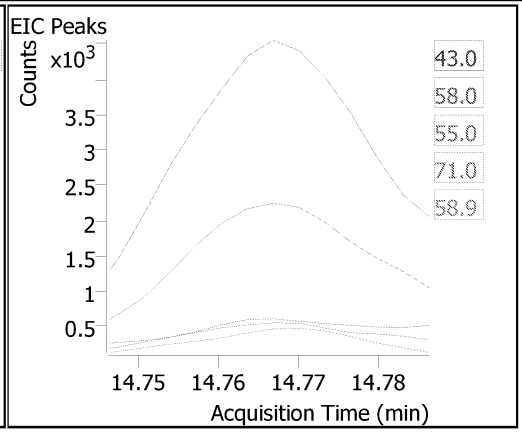
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.7703 | 2-Heptanone | 11224.4 | 86.4 | 110-43-0 | C7H14O | 0.02412 |

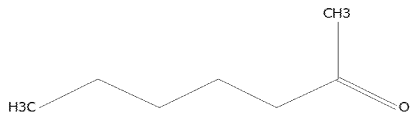


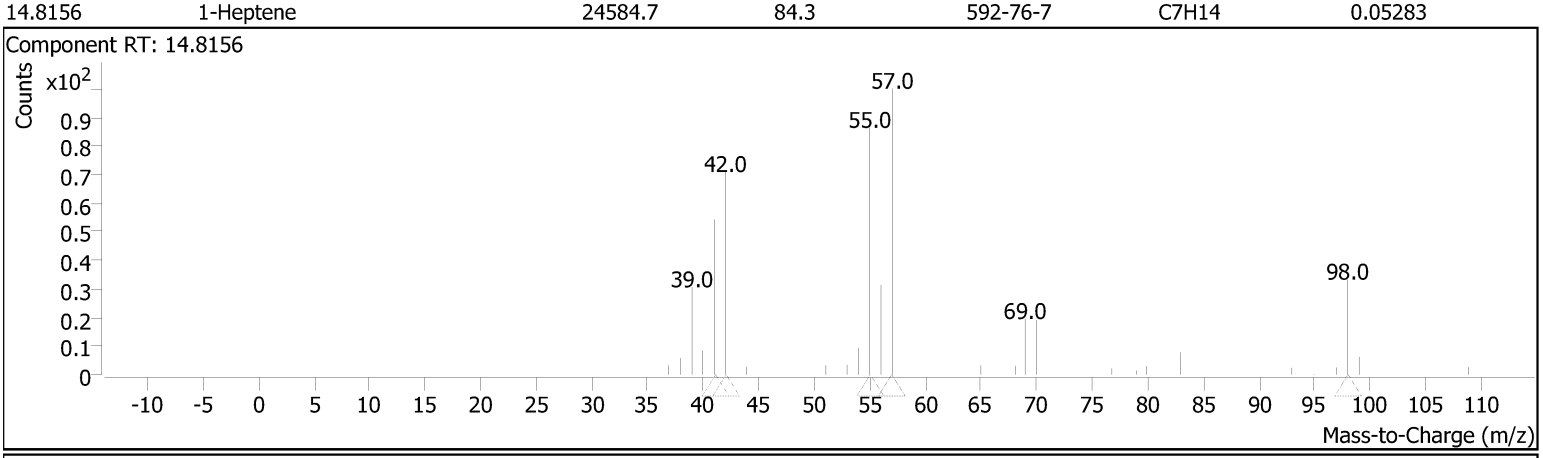



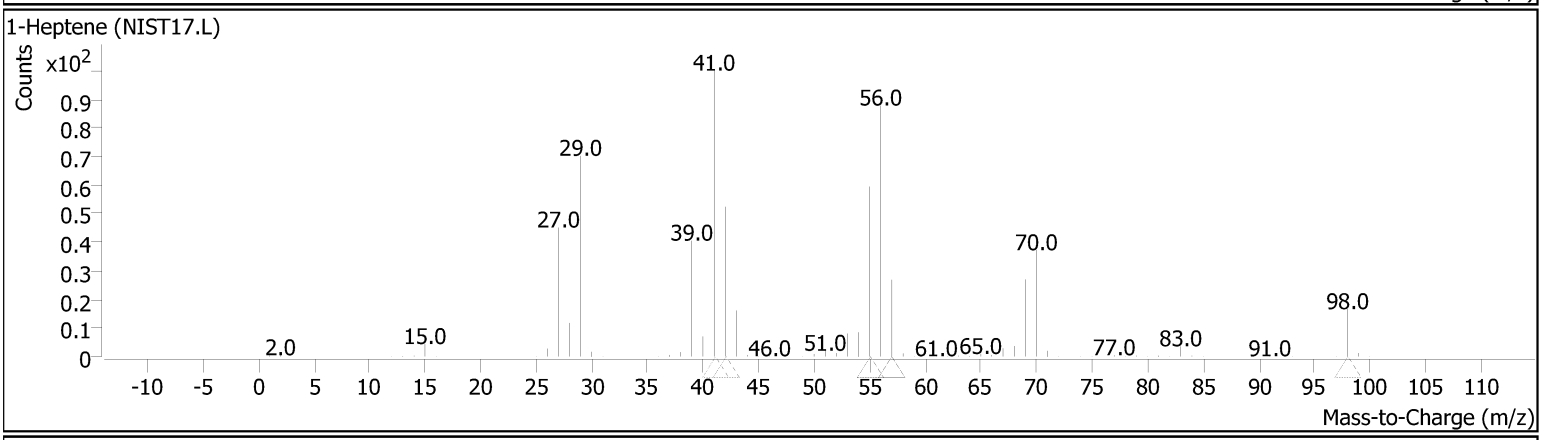



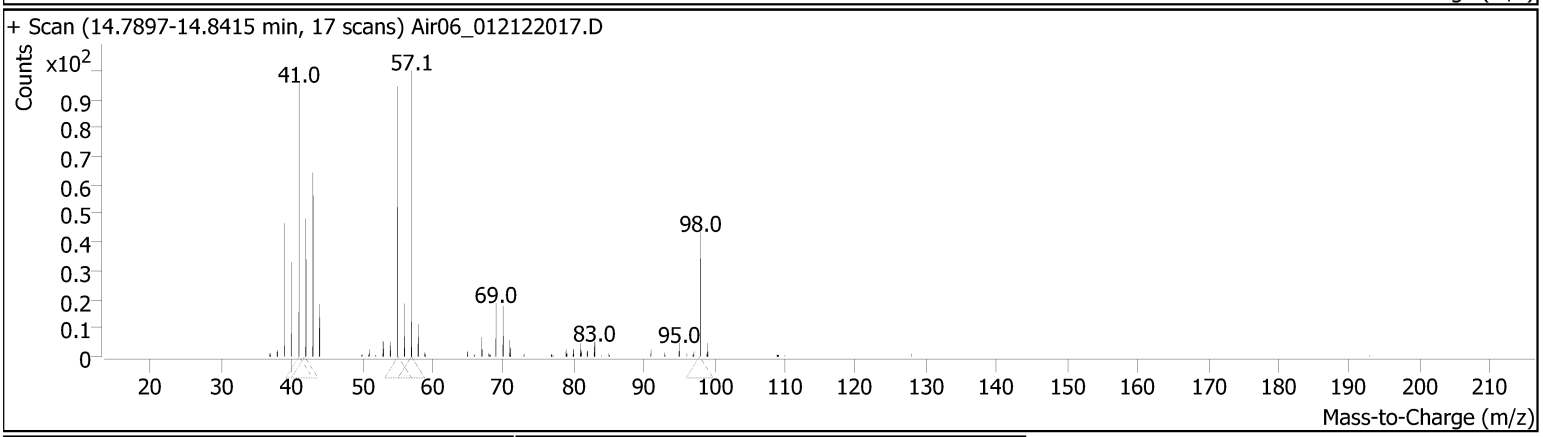



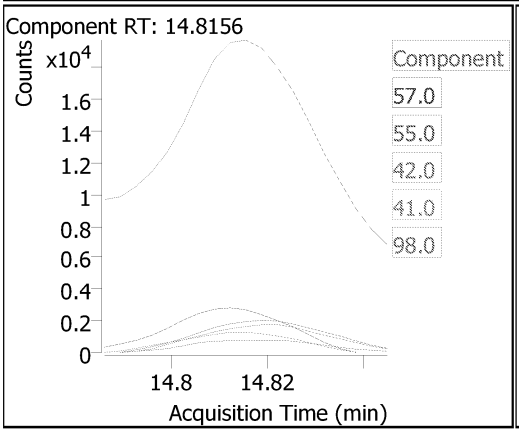



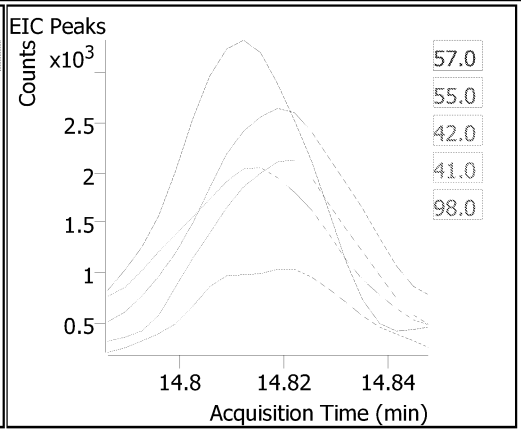
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.8156 | 1-Heptene | 24584.7 | 84.3 | 592-76-7 | C7H14 | 0.05283 |



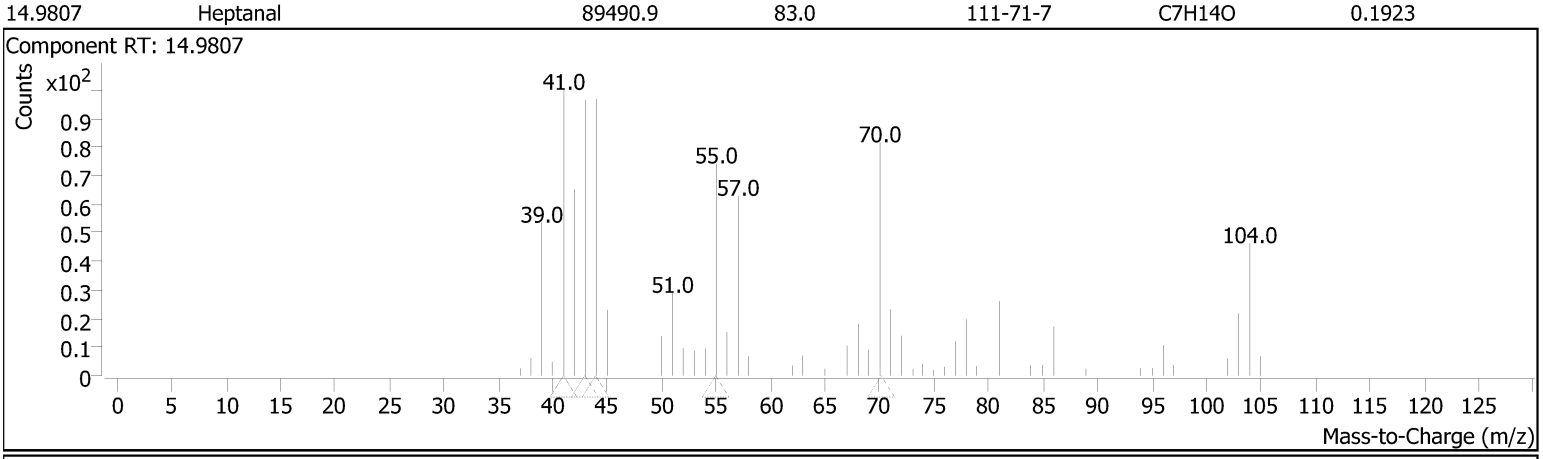



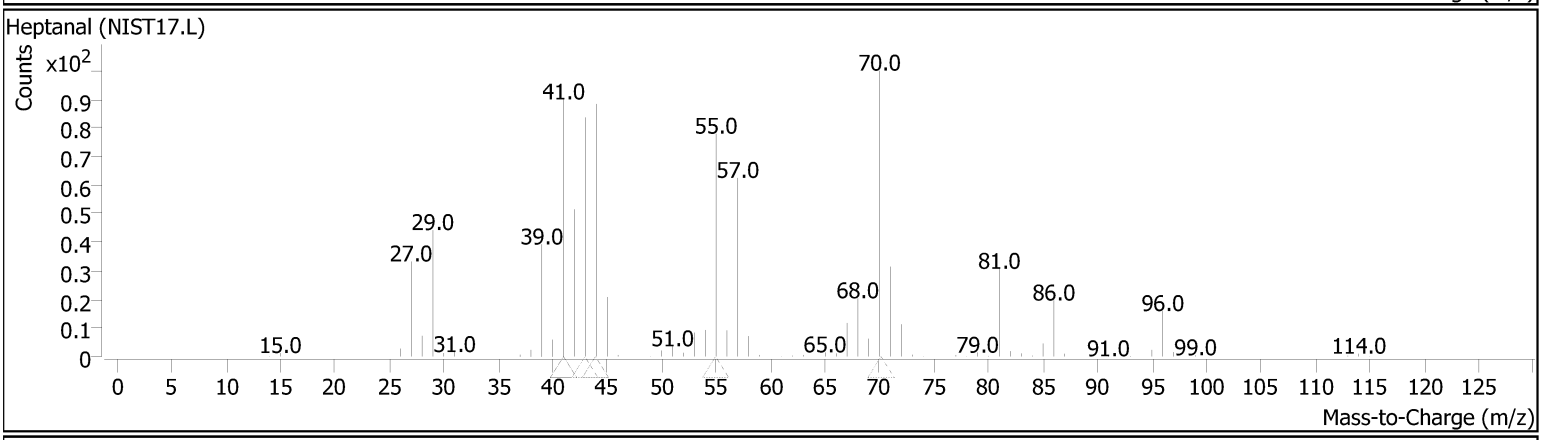



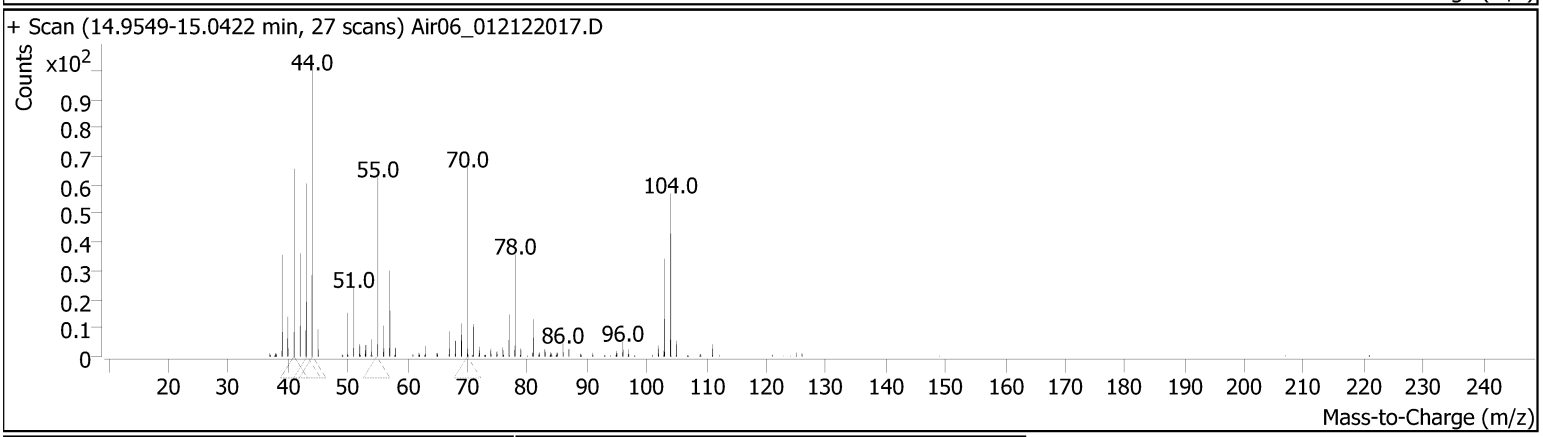



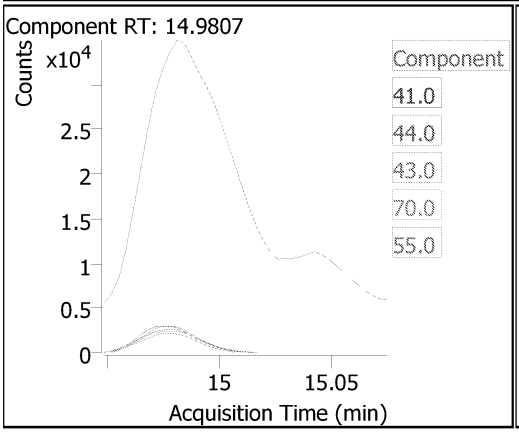


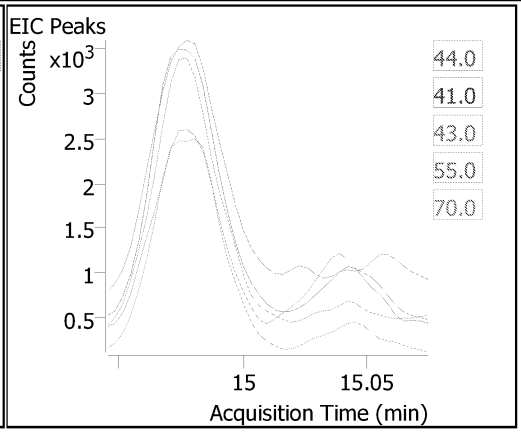

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.9807 | Heptanal | 89490.9 | 83.0 | 111-71-7 | C7H14O | 0.1923 |



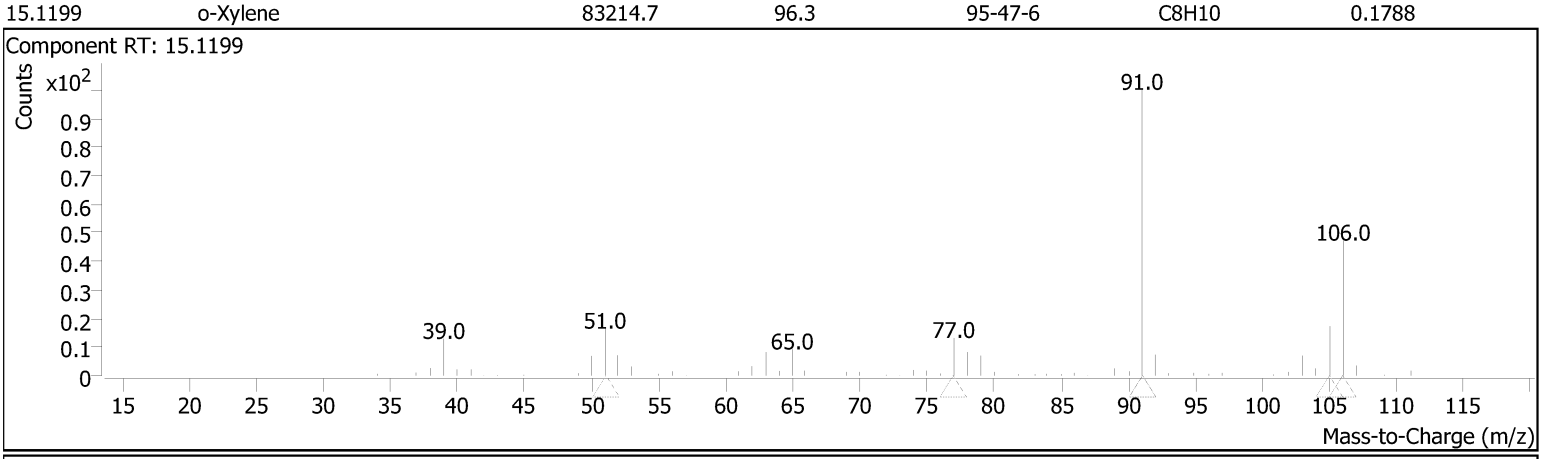



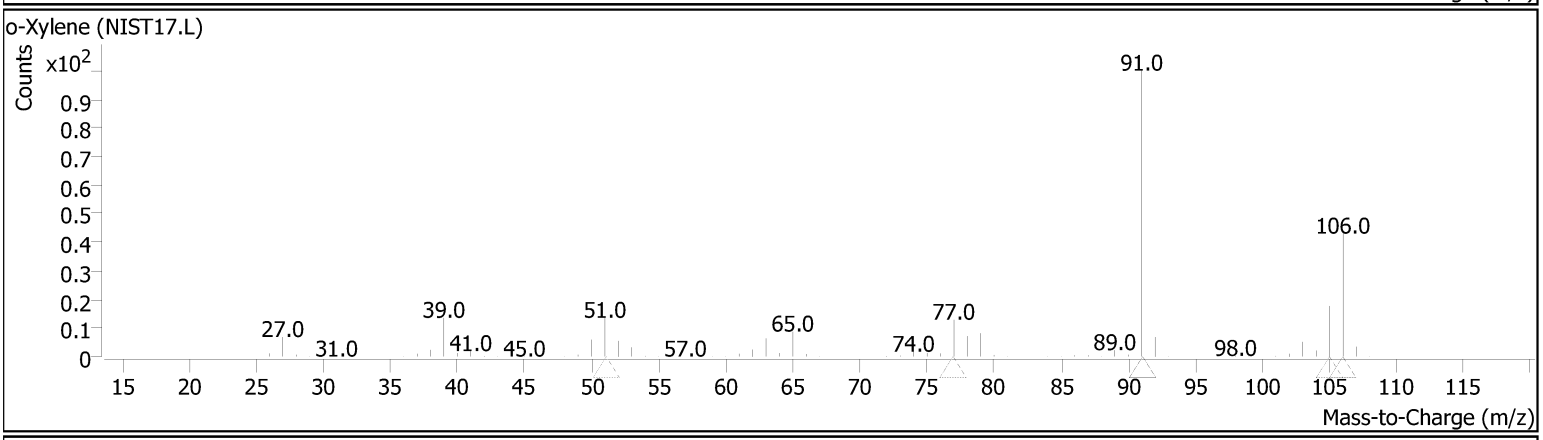



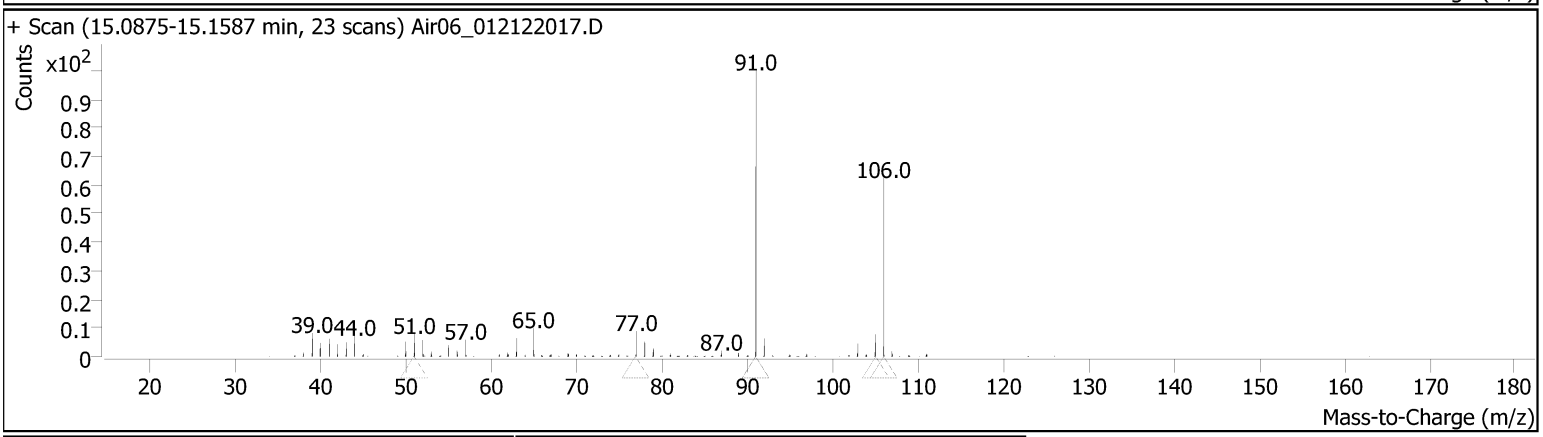



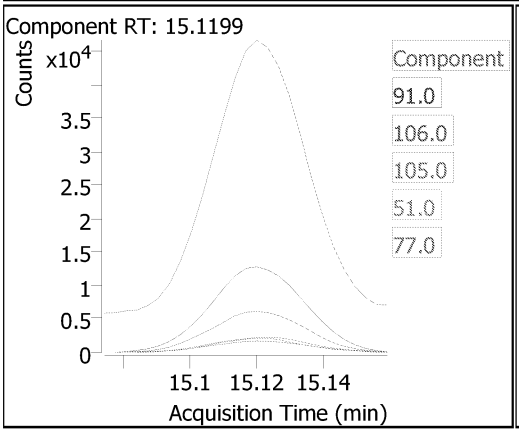


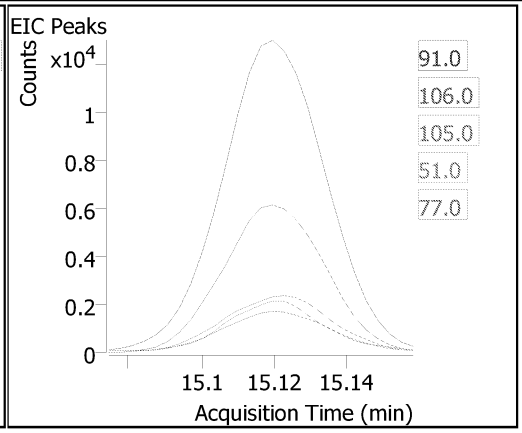

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.1199 | o-Xylene | 83214.7 | 96.3 | 95-47-6 | C8H10 | 0.1788 |

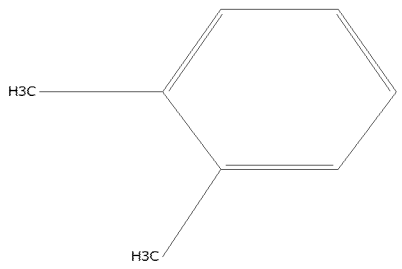


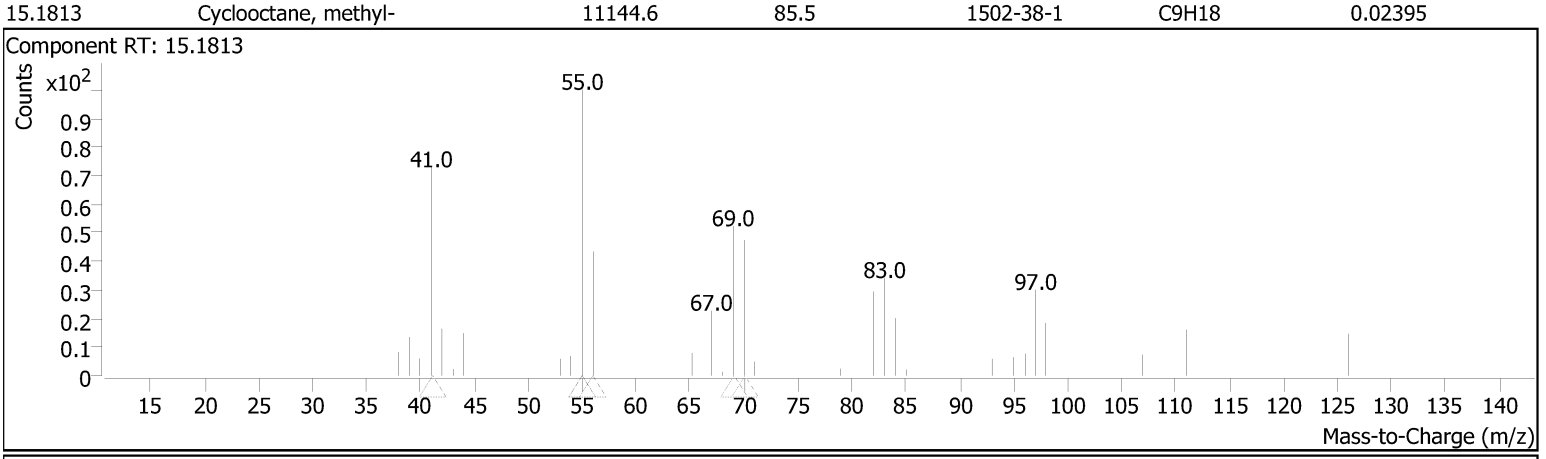



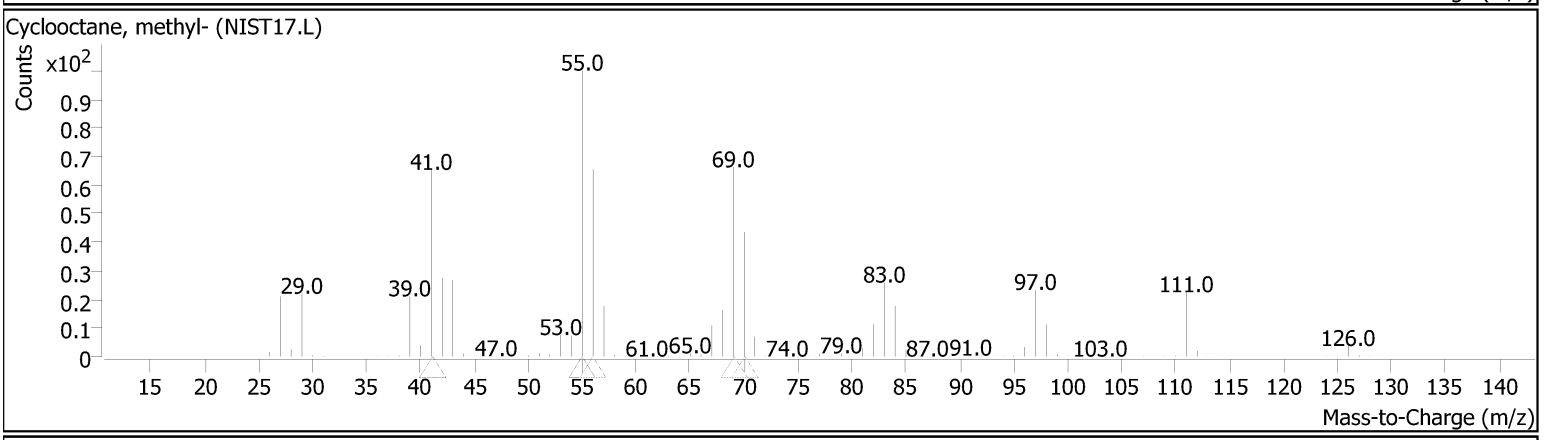



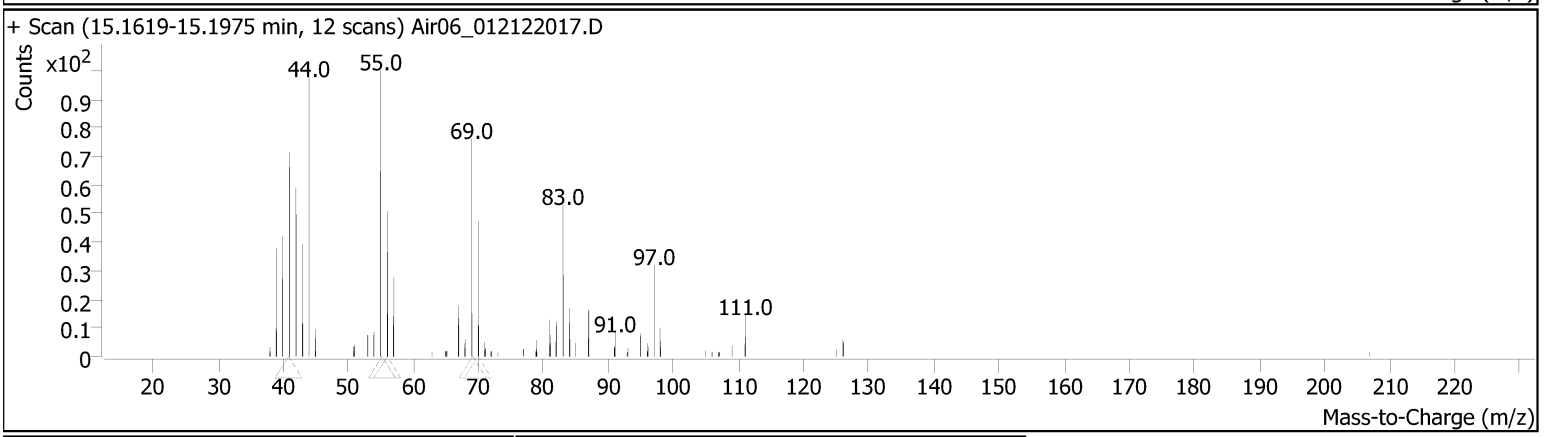



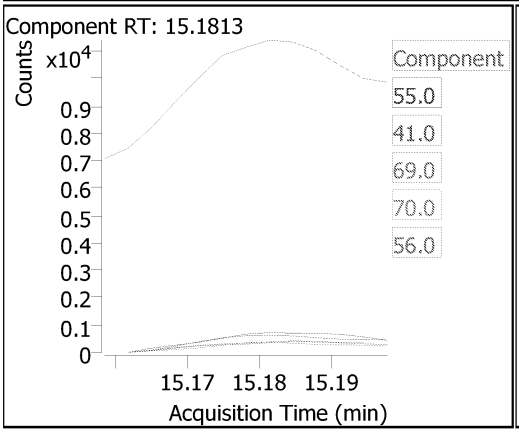



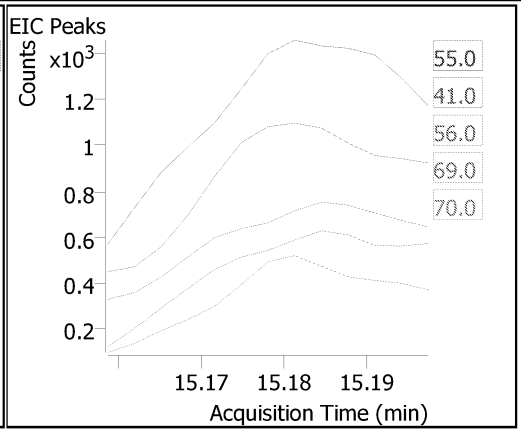
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.1813 | Cyclooctane, methyl- | 11144.6 | 85.5 | 1502-38-1 | C9H18 | 0.02395 |

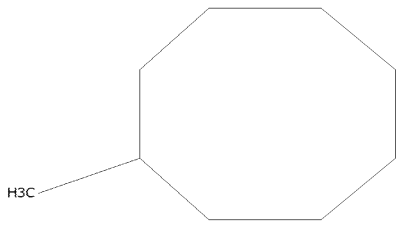


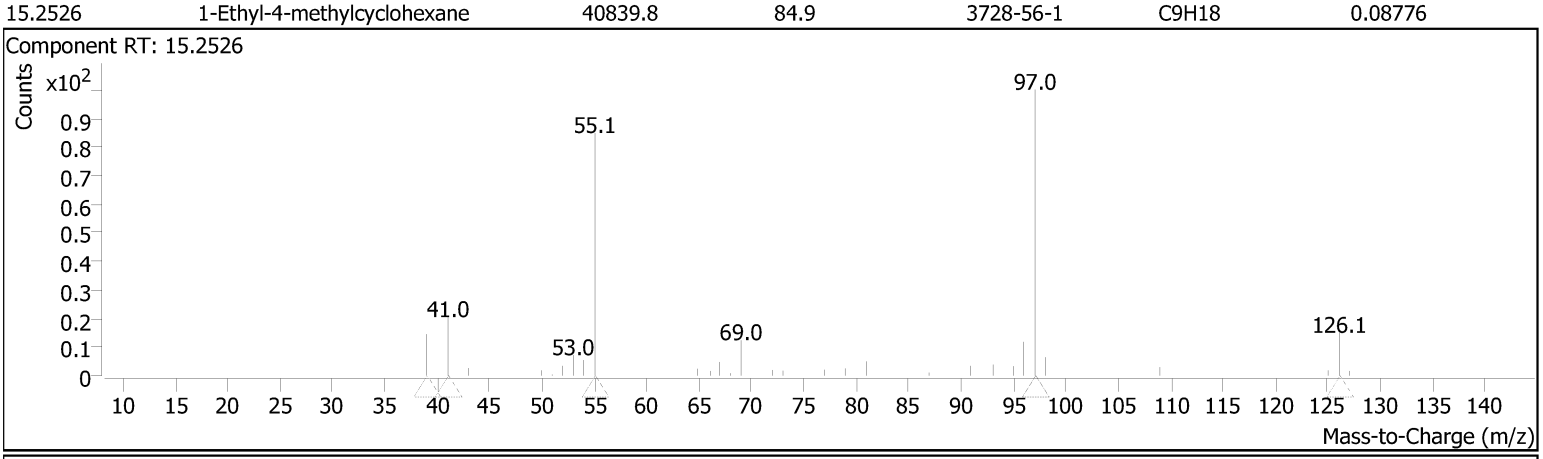



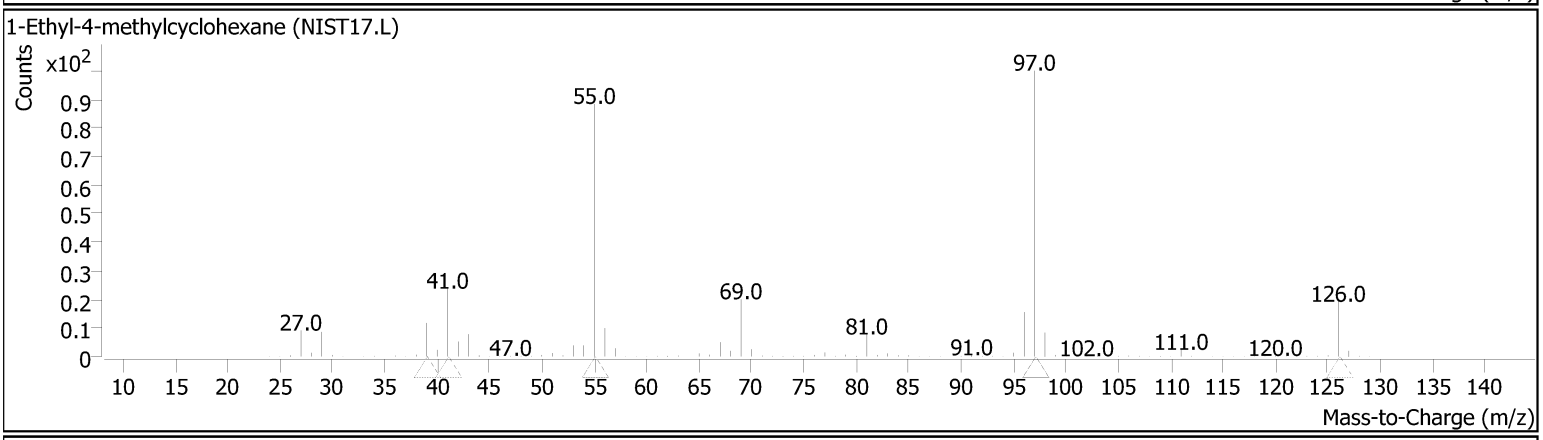



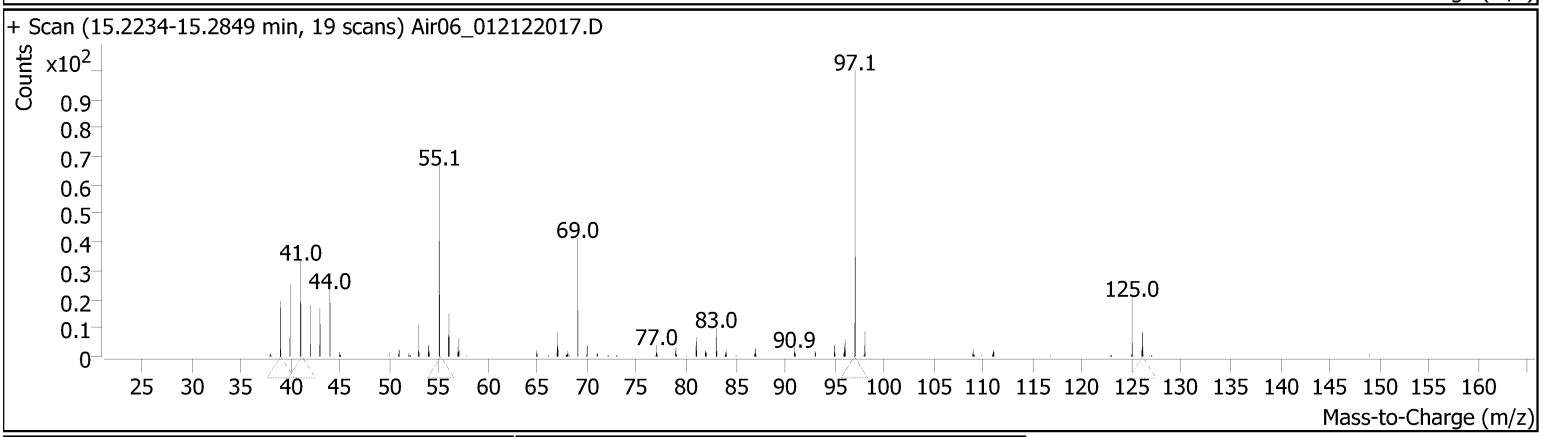



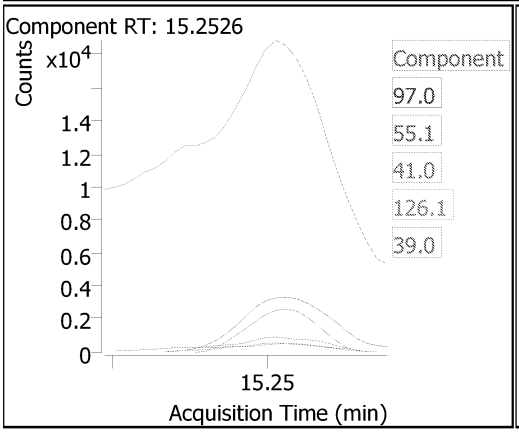



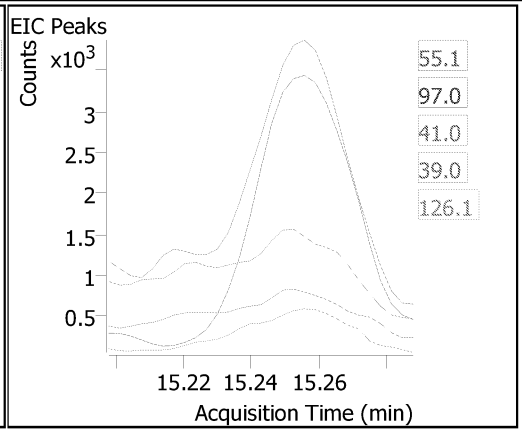
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.2526 | 1-Ethyl-4-methylcyclohexane | 40839.8 | 84.9 | 3728-56-1 | C9H18 | 0.08776 |

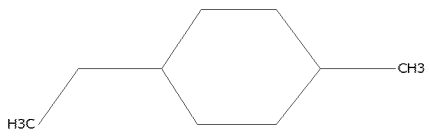


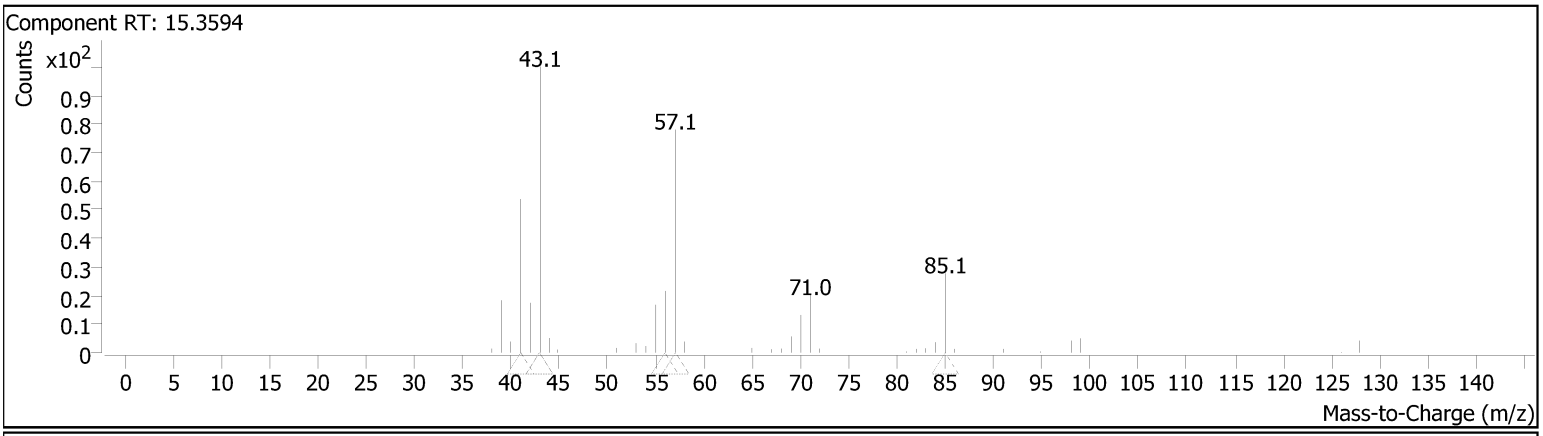



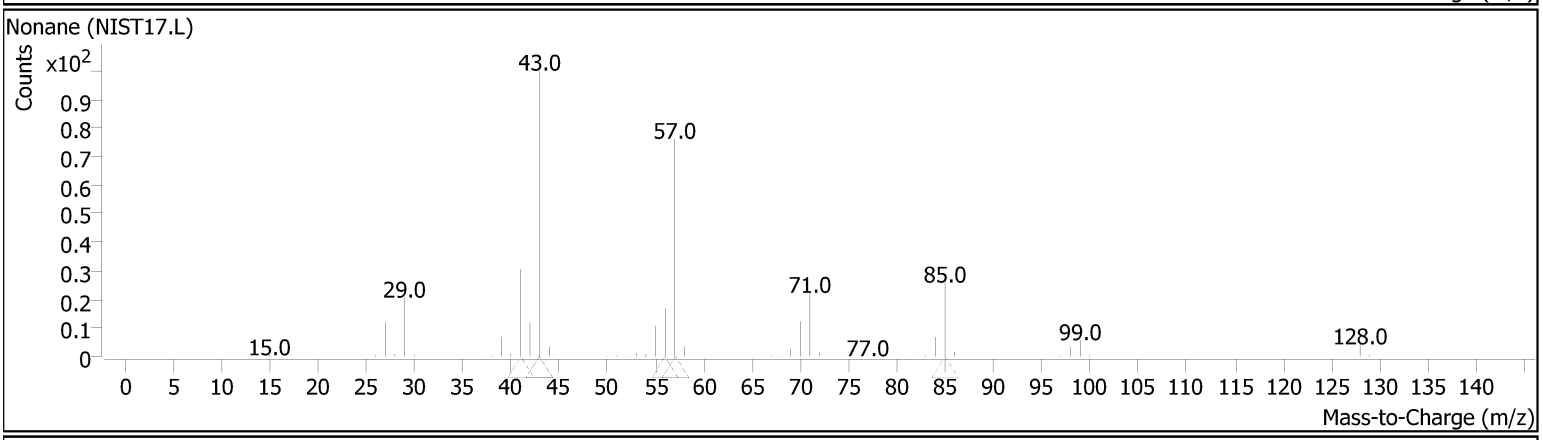



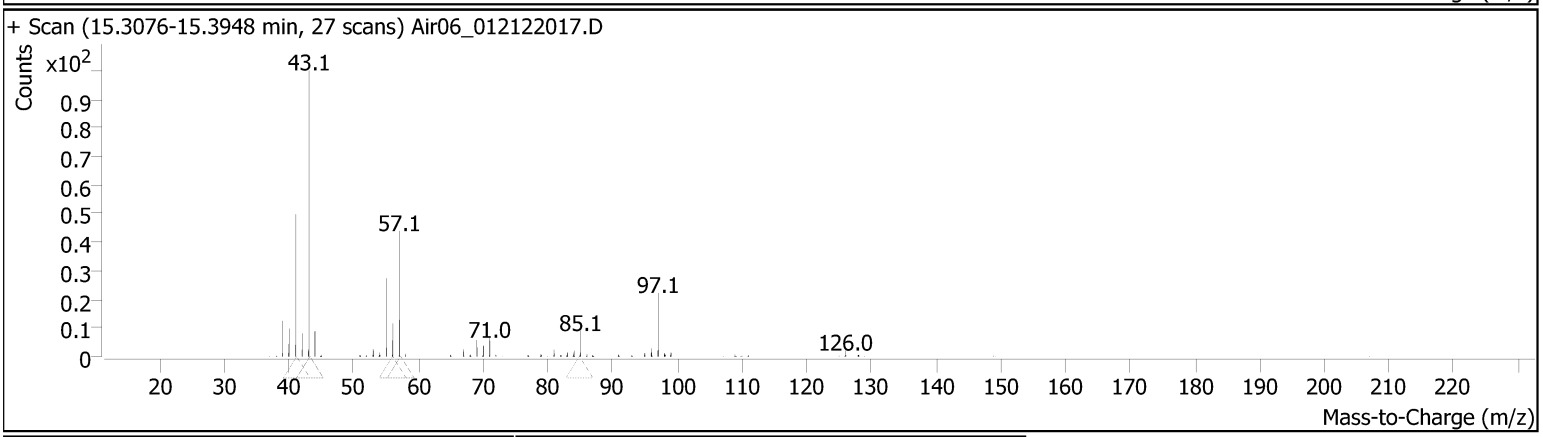



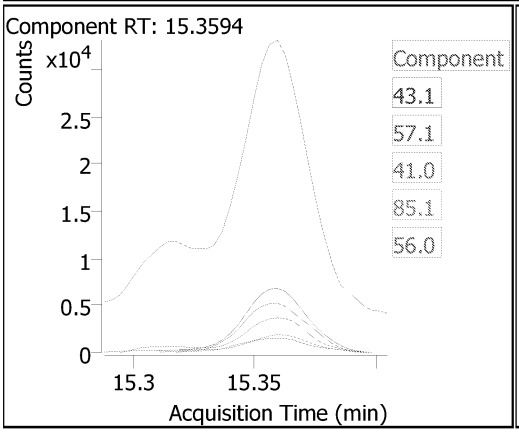



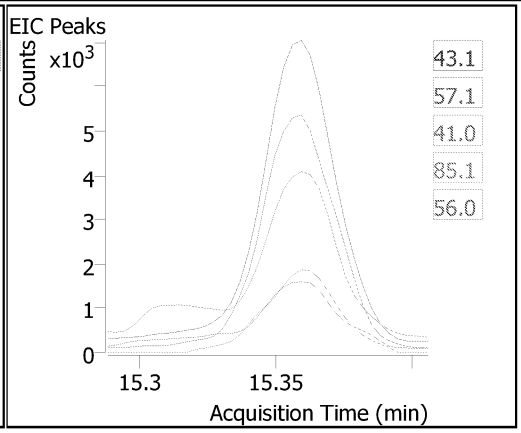
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3594 | Nonane | 69733.8 | 96.1 | 111-84-2 | C9H20 | 0.1498 |



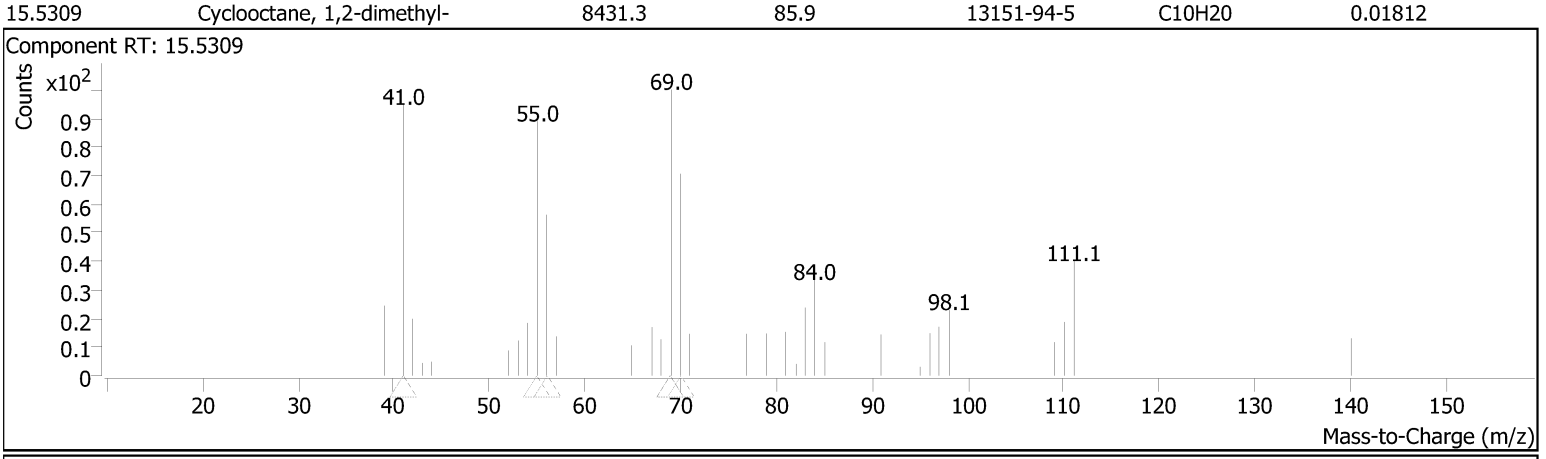



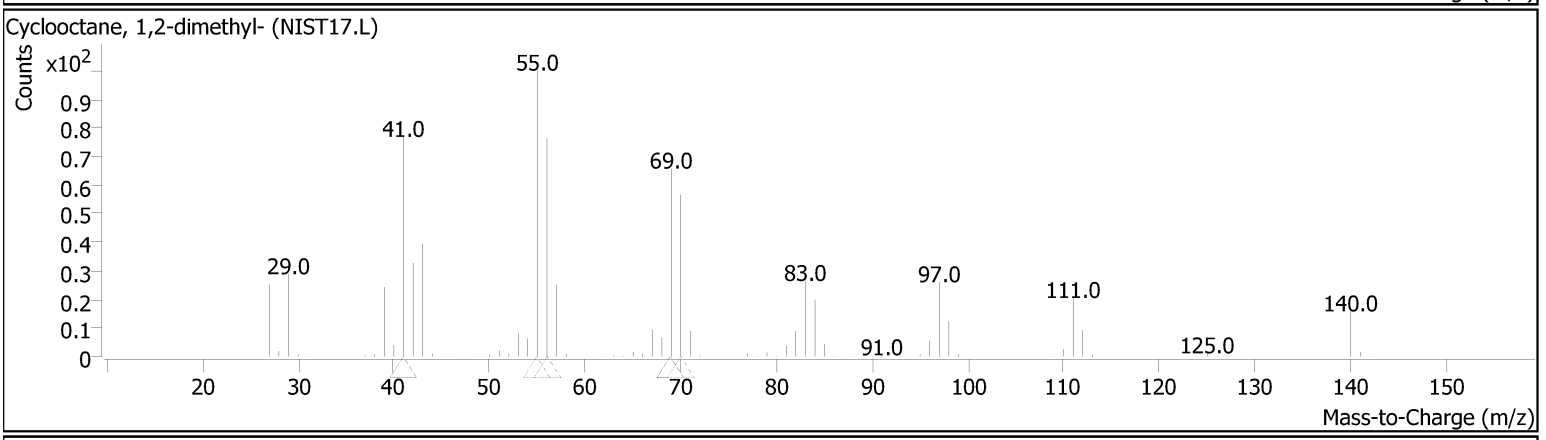


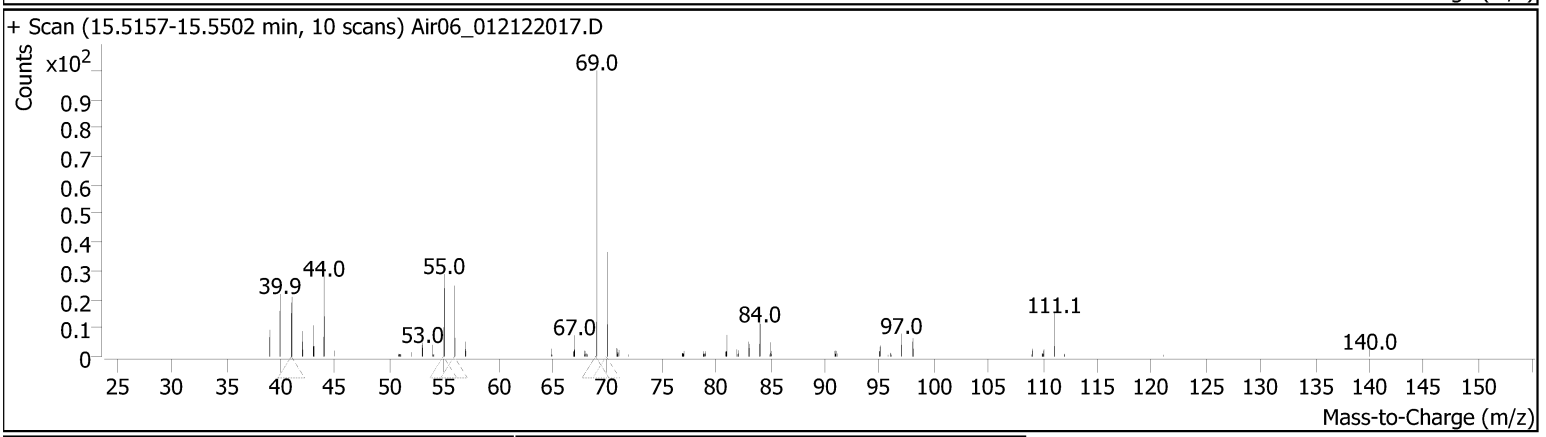

# Library Search Results - NonTarget Hits with Details

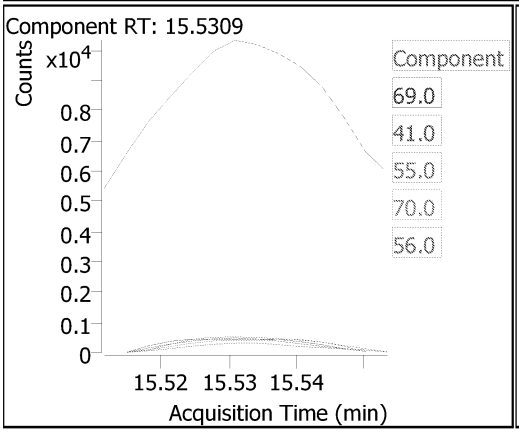
Agilent Technologies

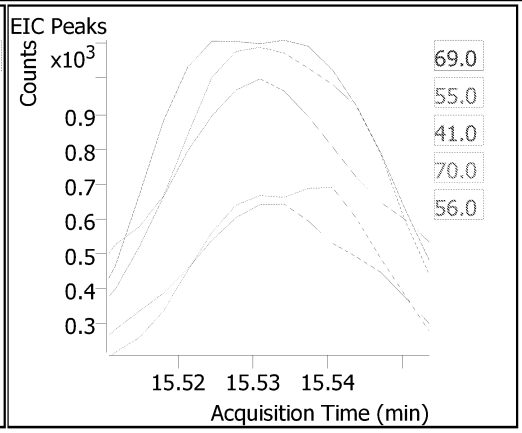
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.5309 | Cyclooctane, 1,2-dimethyl- | 8431.3 | 85.9 | 13151-94-5 | C10H20 | 0.01812 |

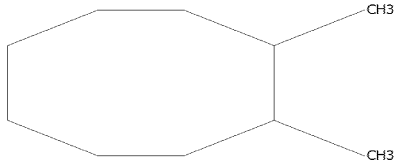


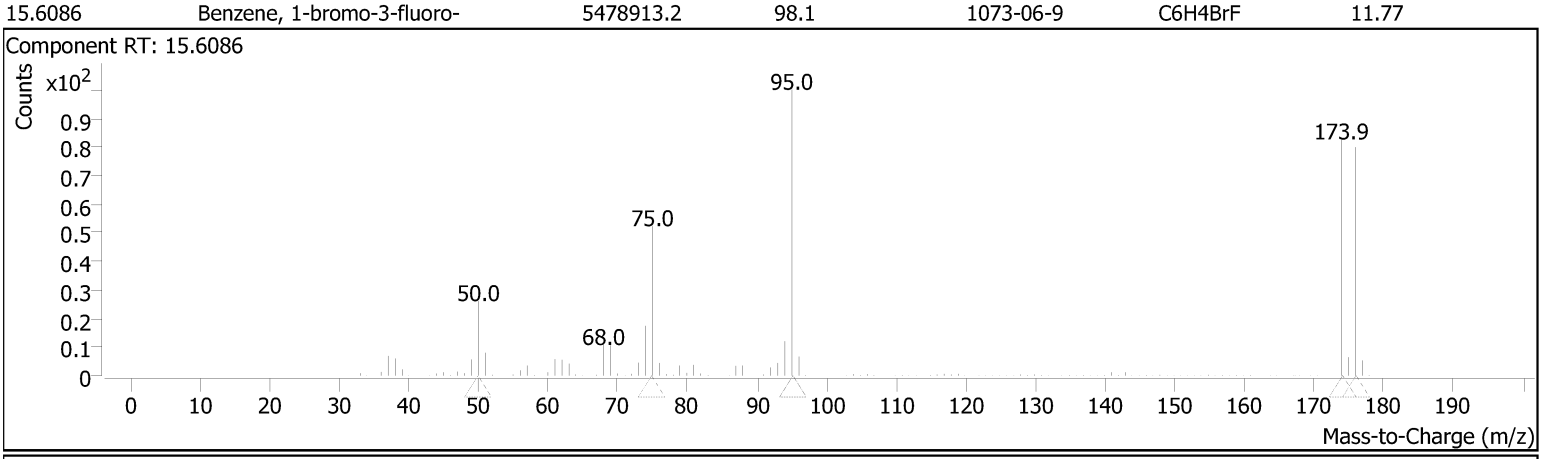



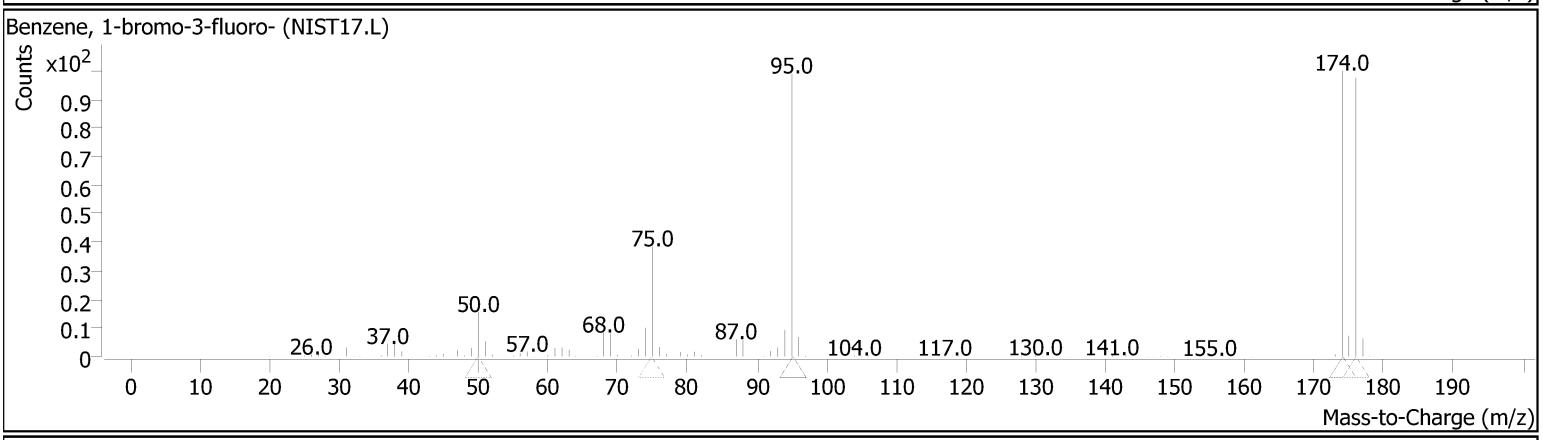



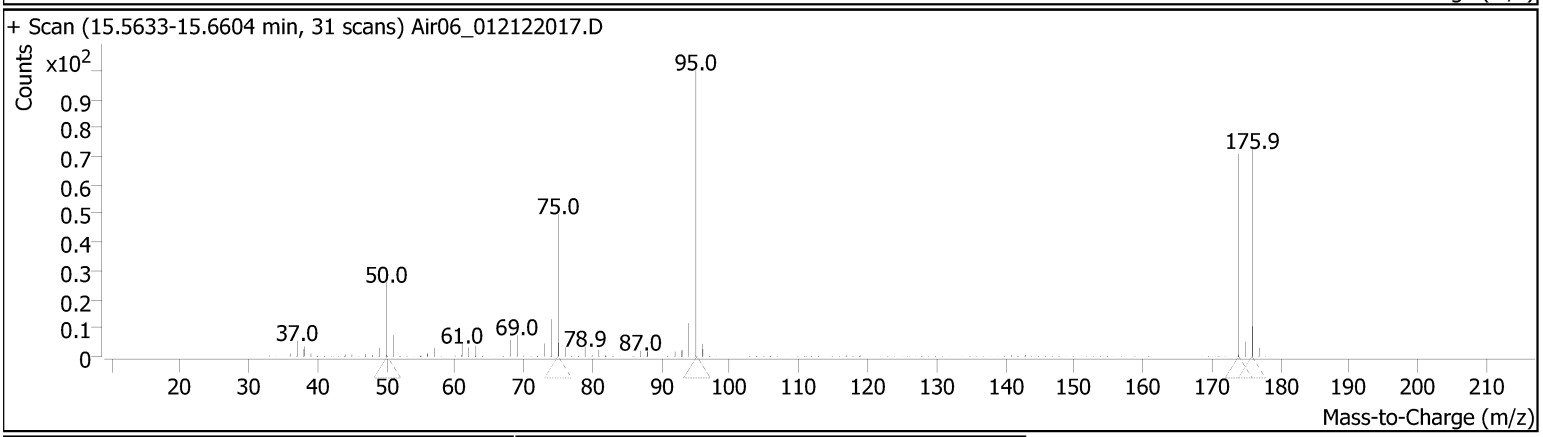



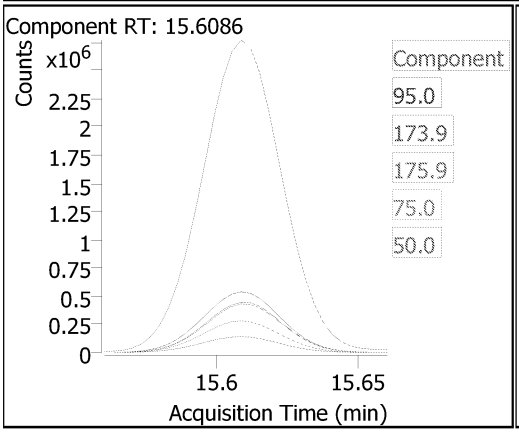



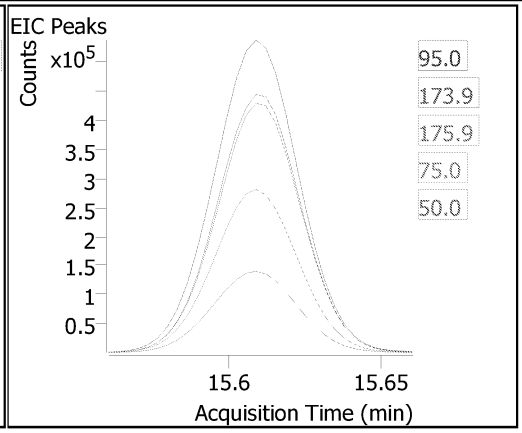
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6086 | Benzene, 1-bromo-3-fluoro- | 5478913.2 | 98.1 | 1073-06-9 | C6H4BrF | 11.77 |

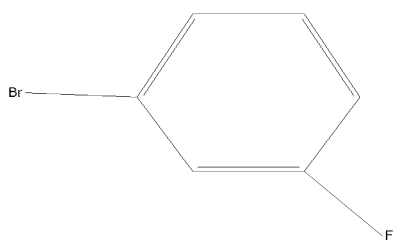


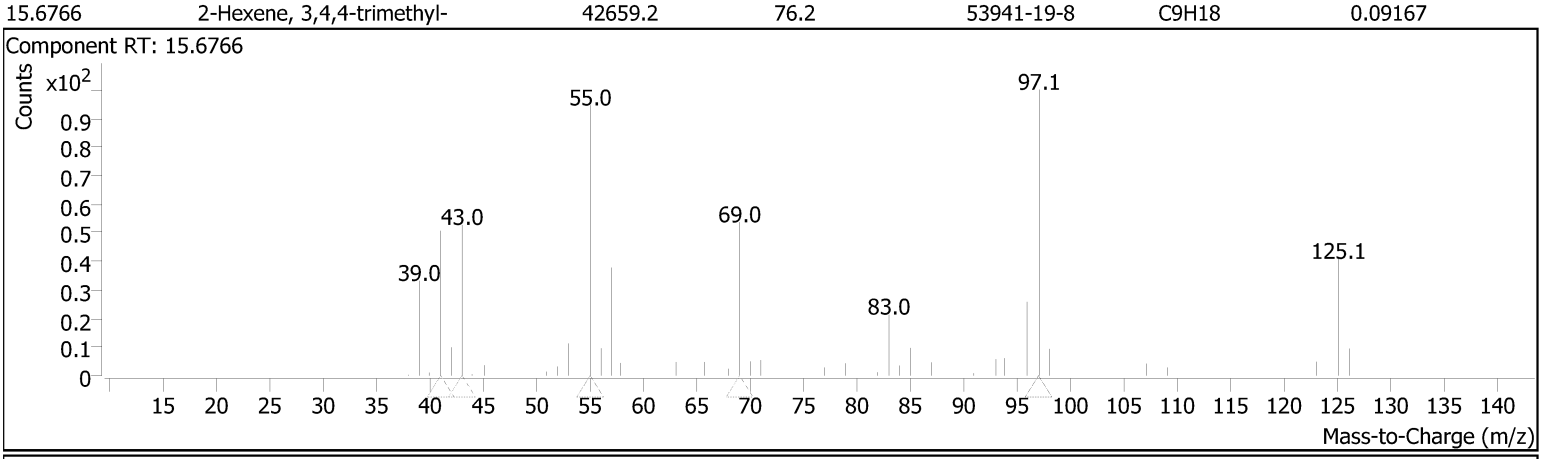



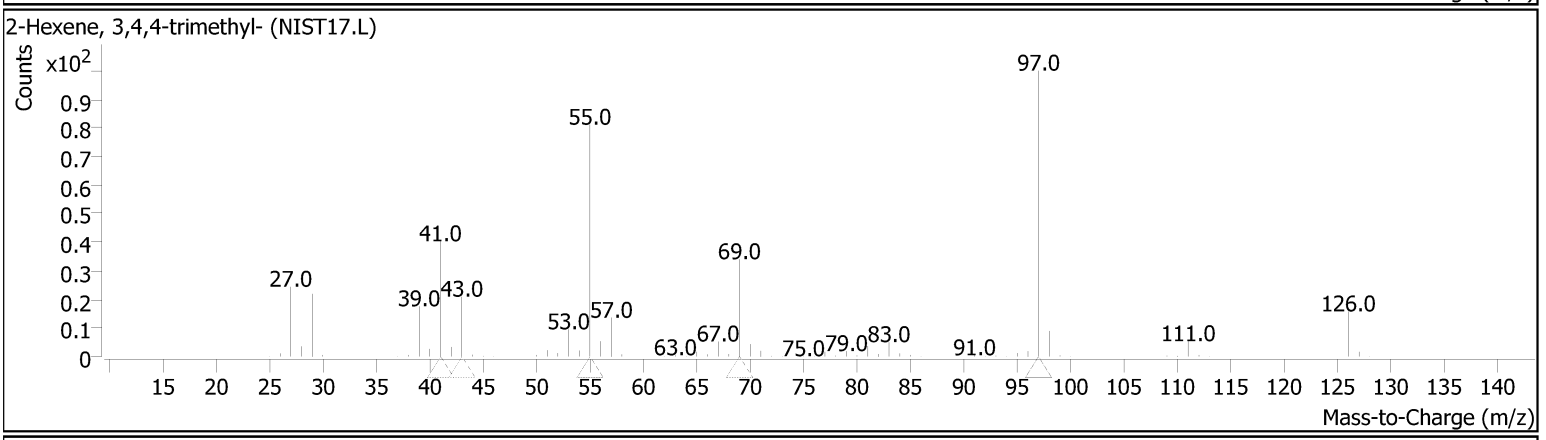



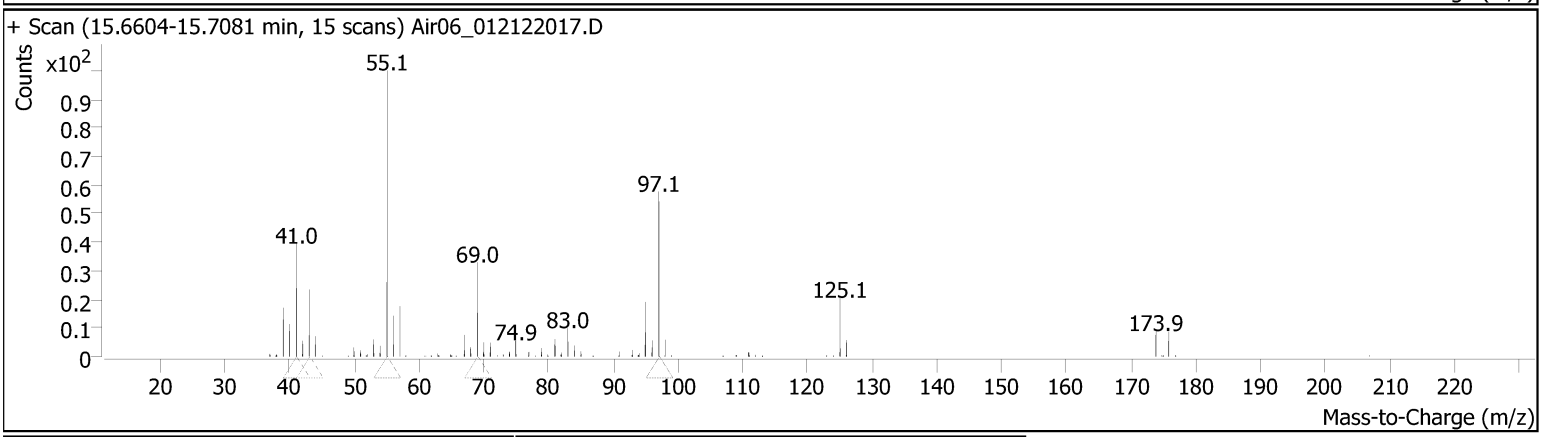



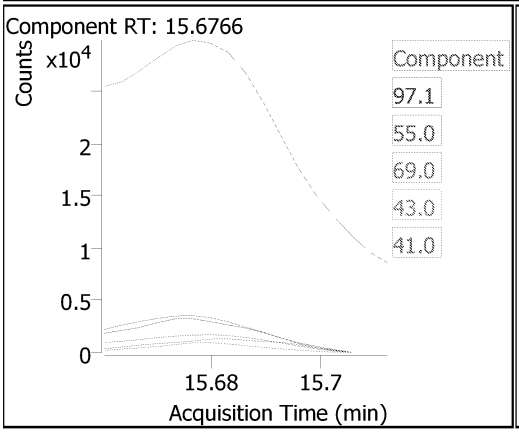



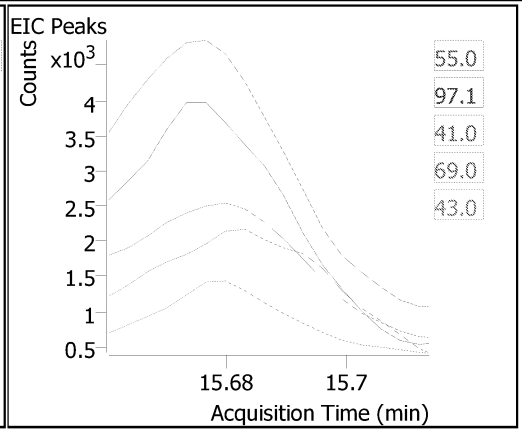
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6766 | 2-Hexene, 3,4,4-trimethyl- | 42659.2 | 76.2 | 53941-19-8 | C9H18 | 0.09167 |

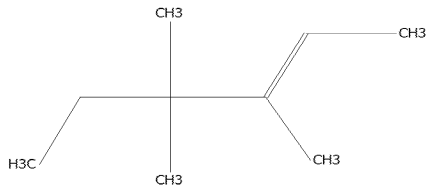


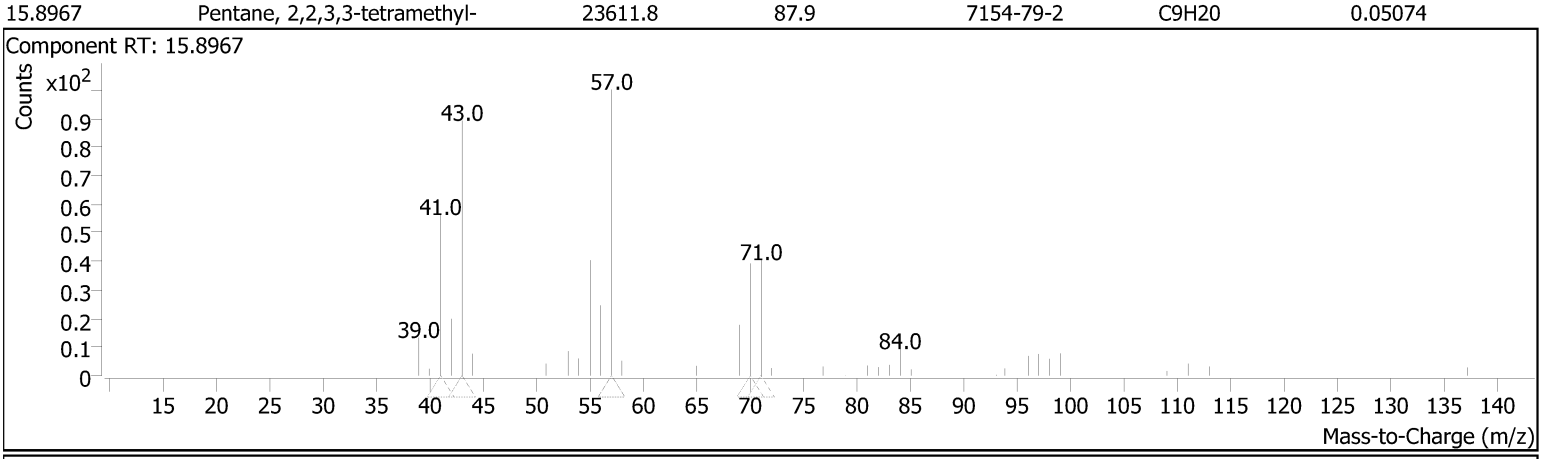



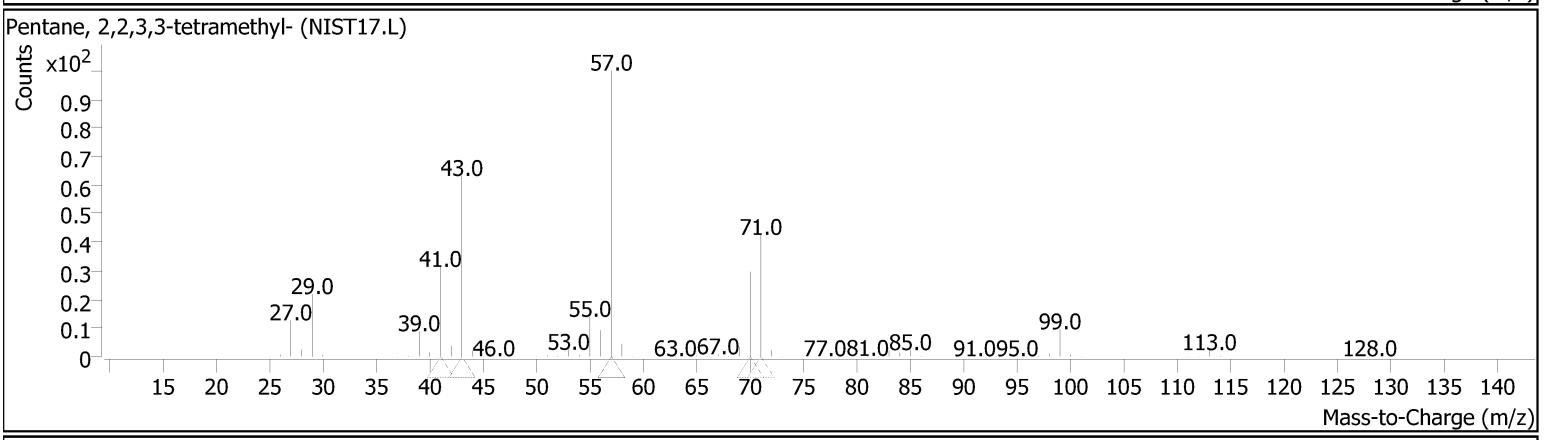



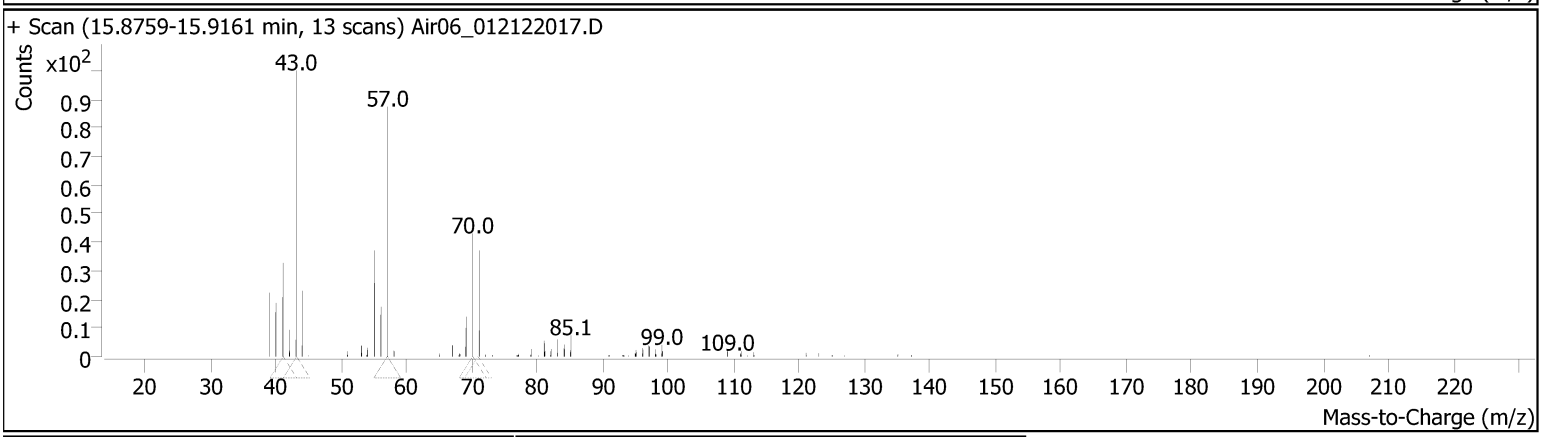



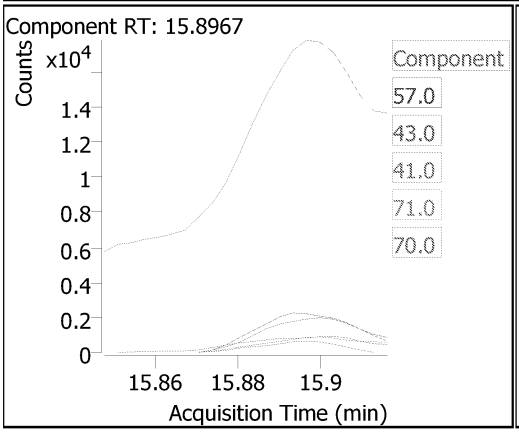



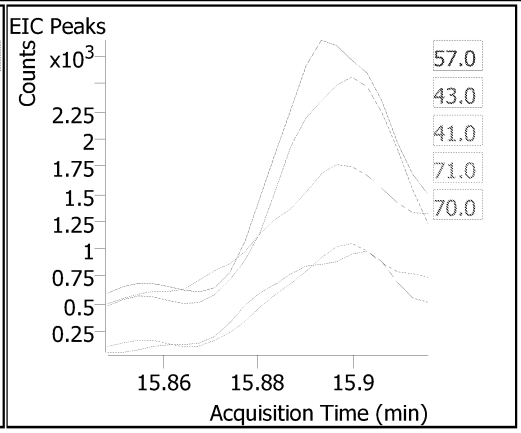
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.8967 | Pentane, 2,2,3,3-tetramethyl- | 23611.8 | 87.9 | 7154-79-2 | C9H20 | 0.05074 |

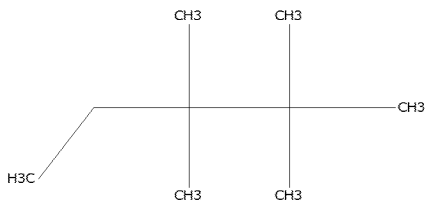


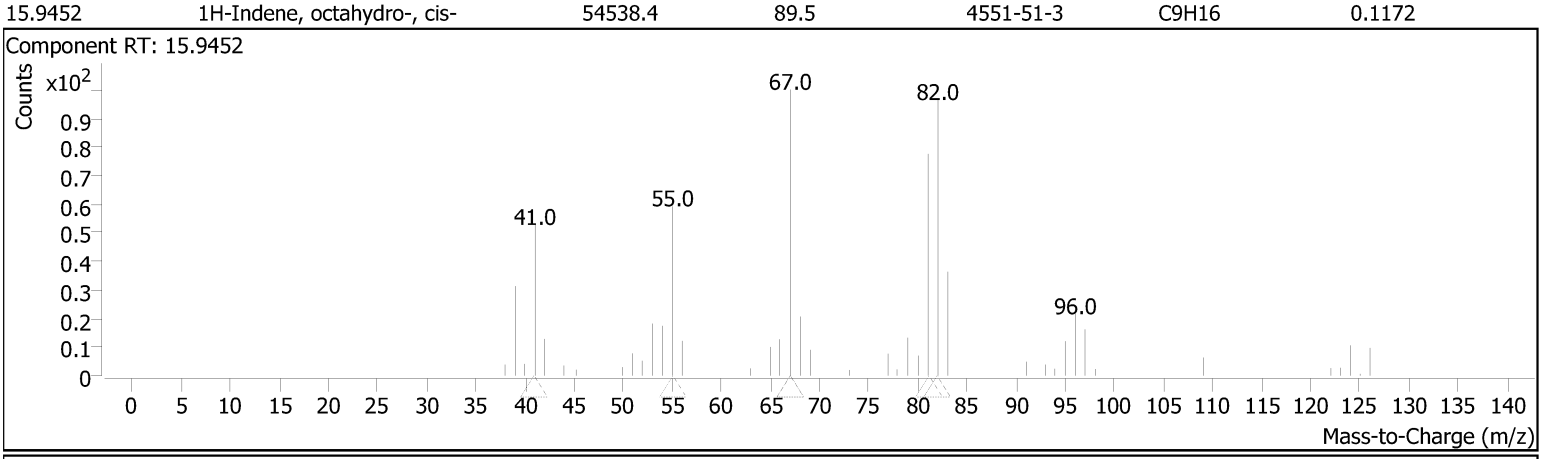



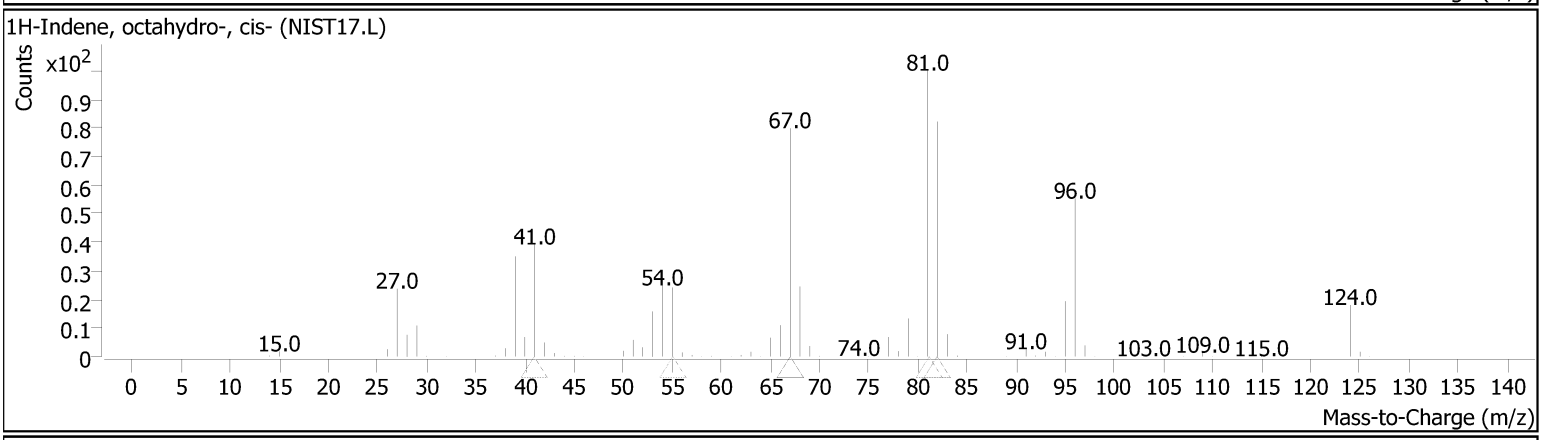



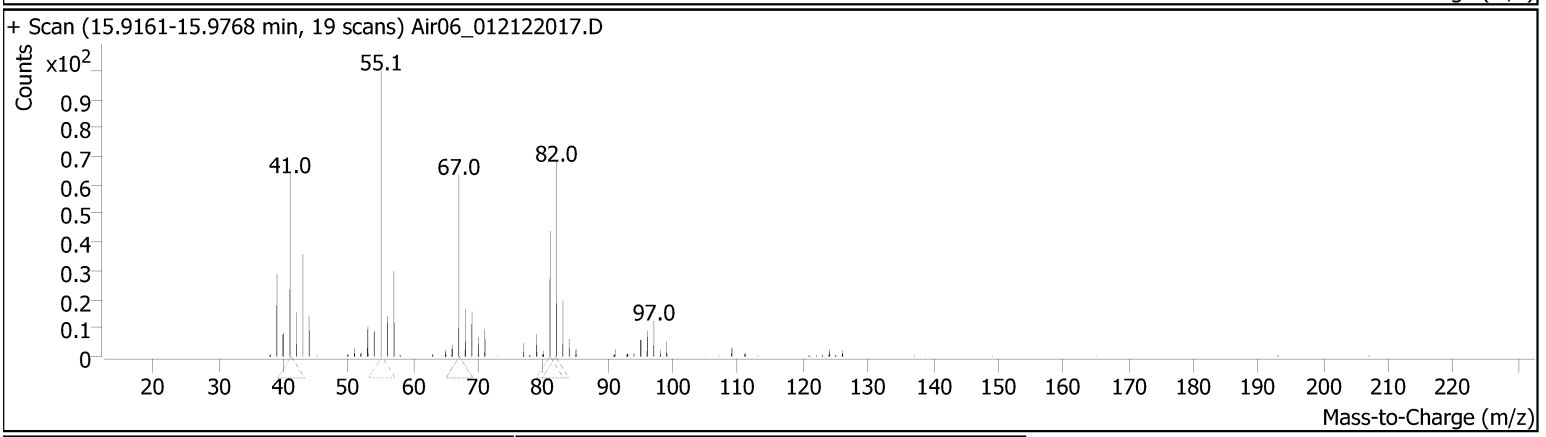



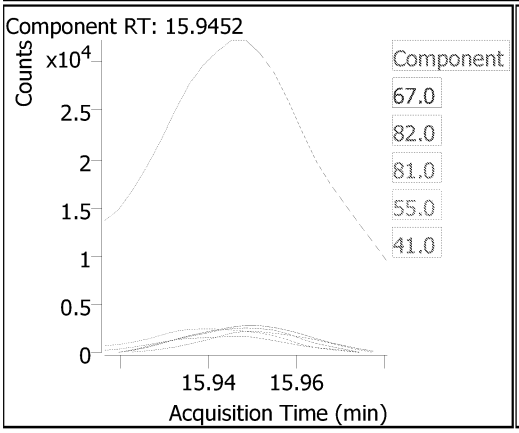



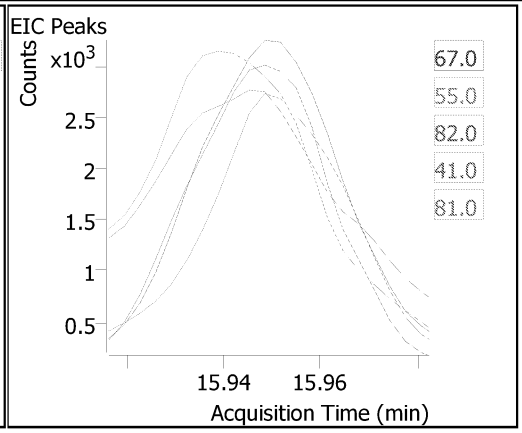
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.9452 | 1H-Indene, octahydro-, cis- | 54538.4 | 89.5 | 4551-51-3 | C9H16 | 0.1172 |



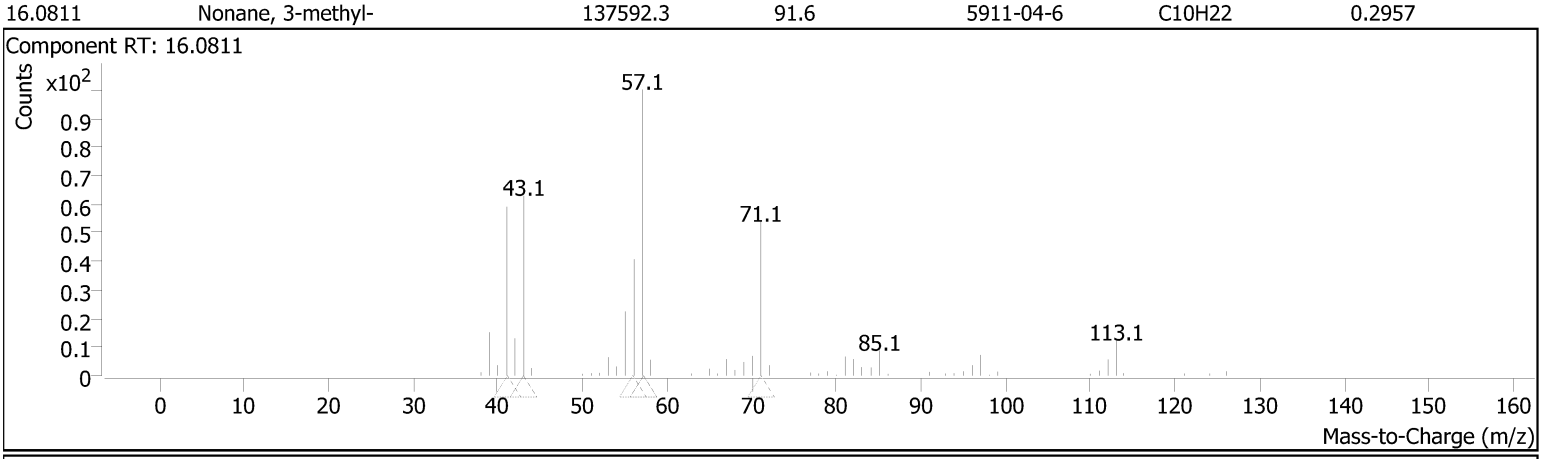



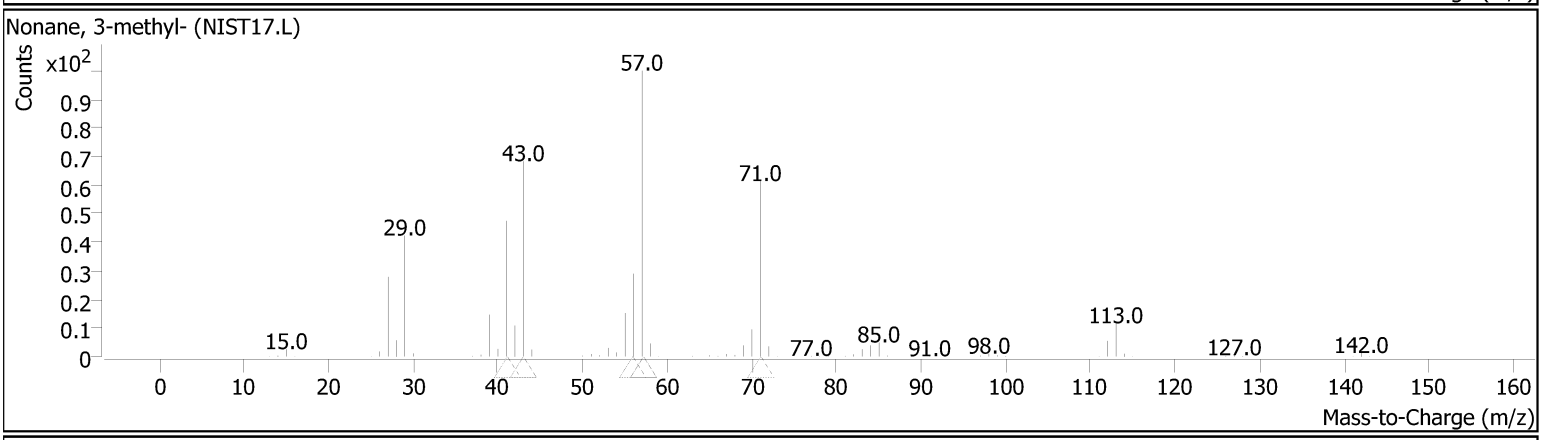



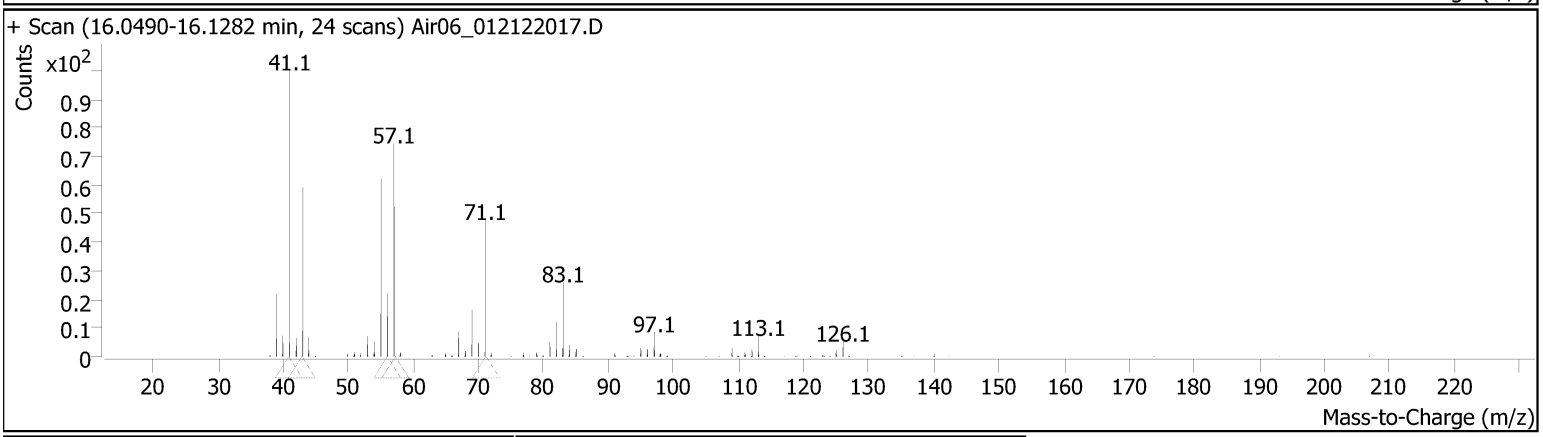



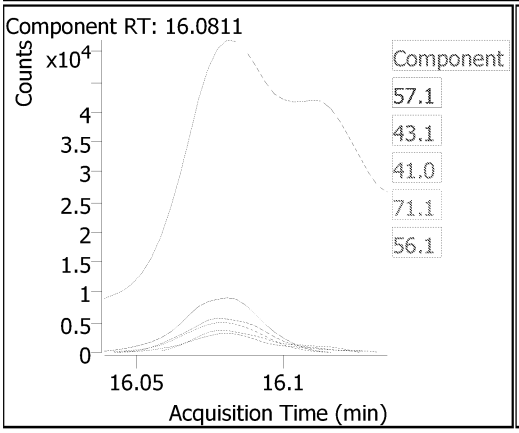



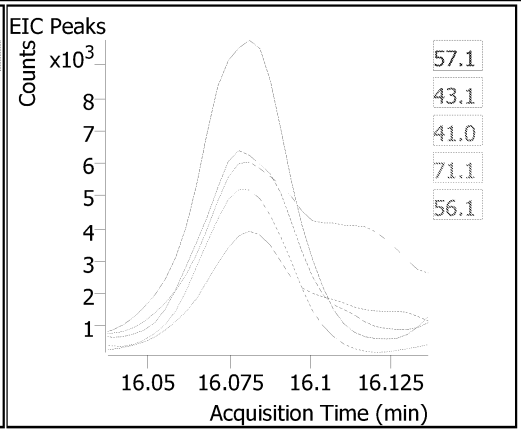
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.0811 | Nonane, 3-methyl- | 137592.3 | 91.6 | 5911-04-6 | C10H22 | 0.2957 |



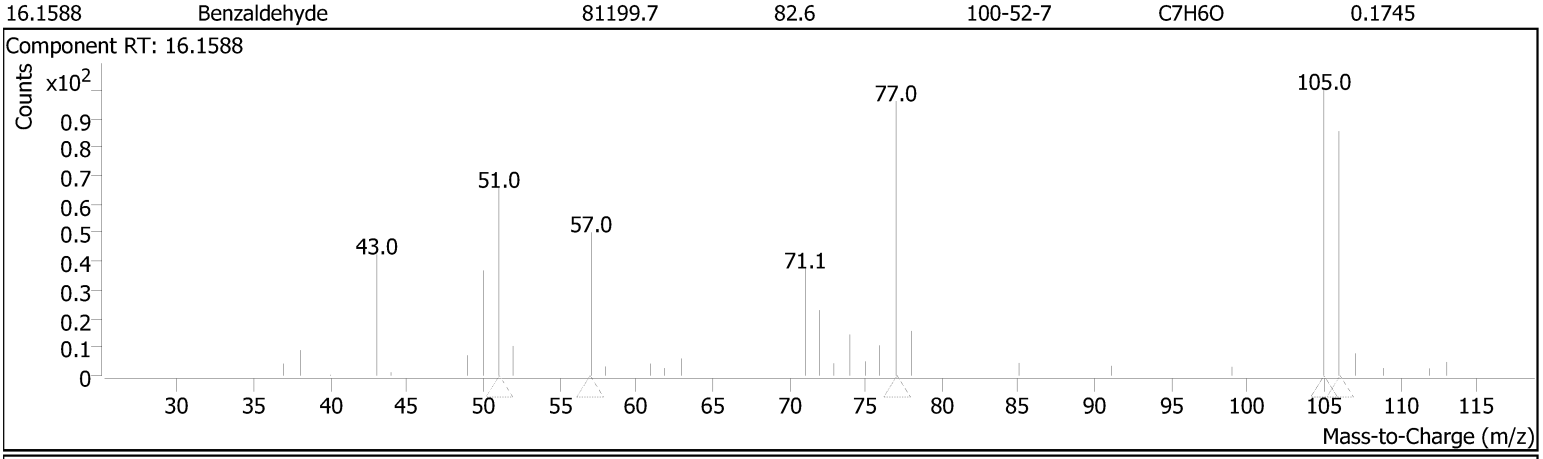



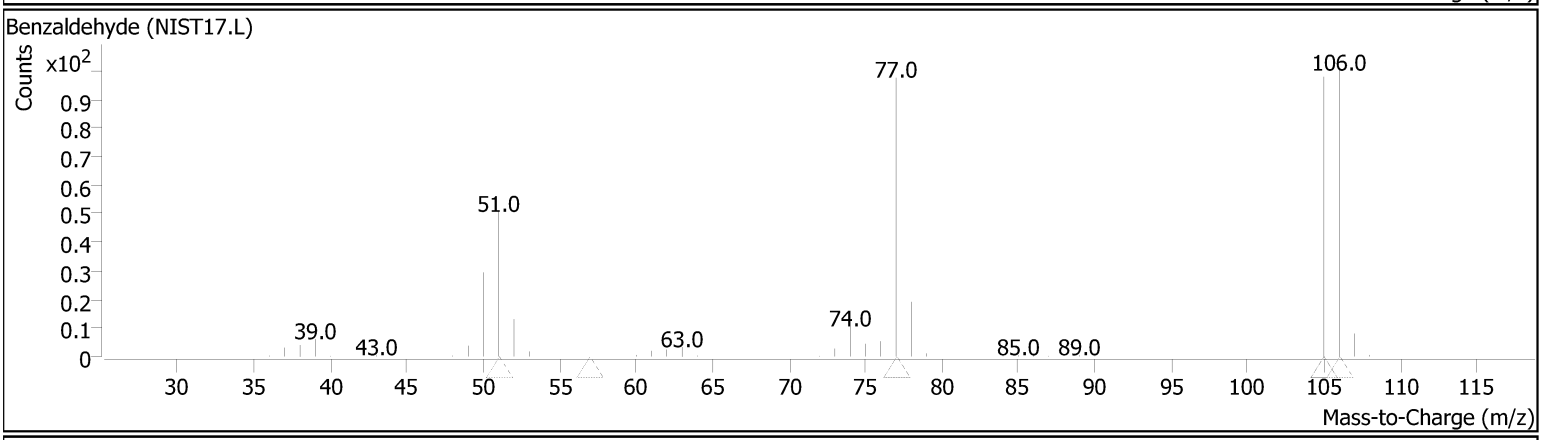



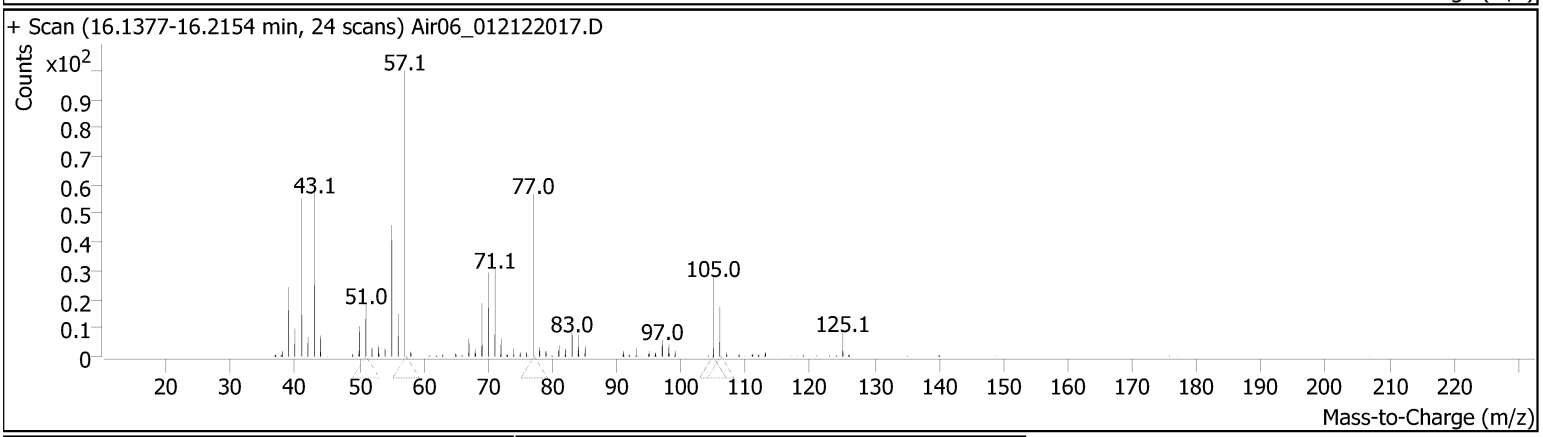



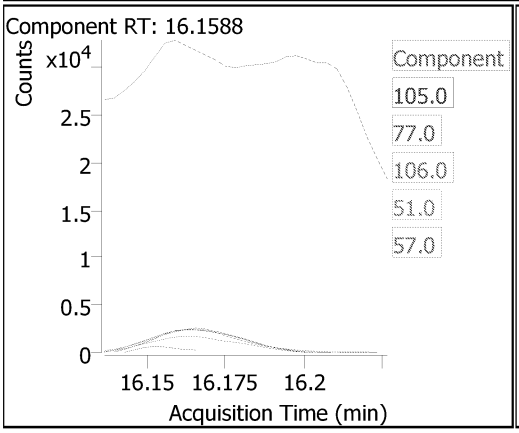


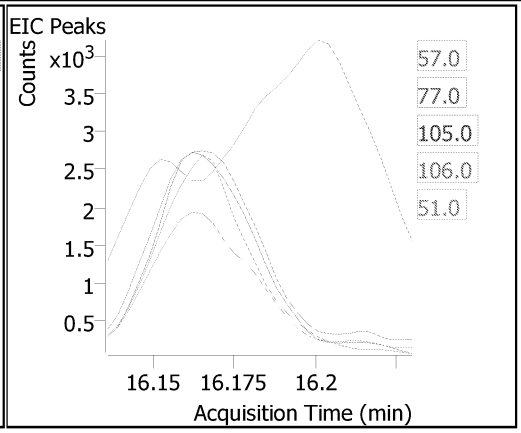

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1588 | Benzaldehyde | 81199.7 | 82.6 | 100-52-7 | C7H6O | 0.1745 |

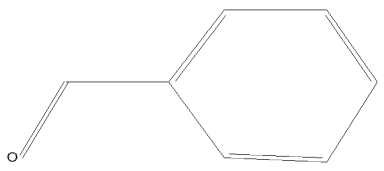


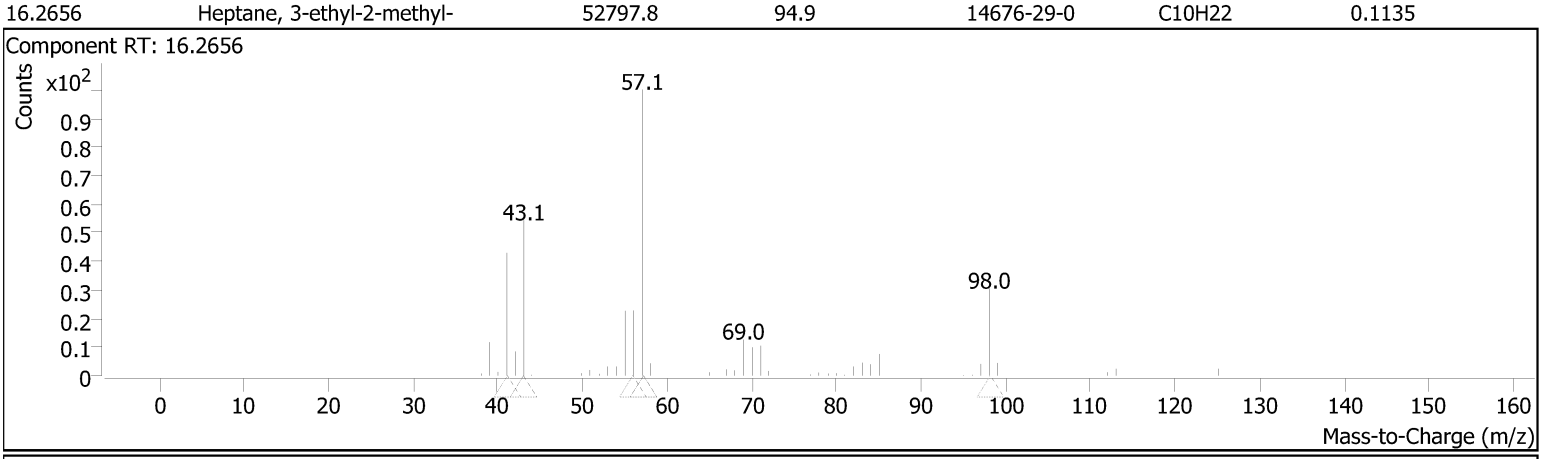



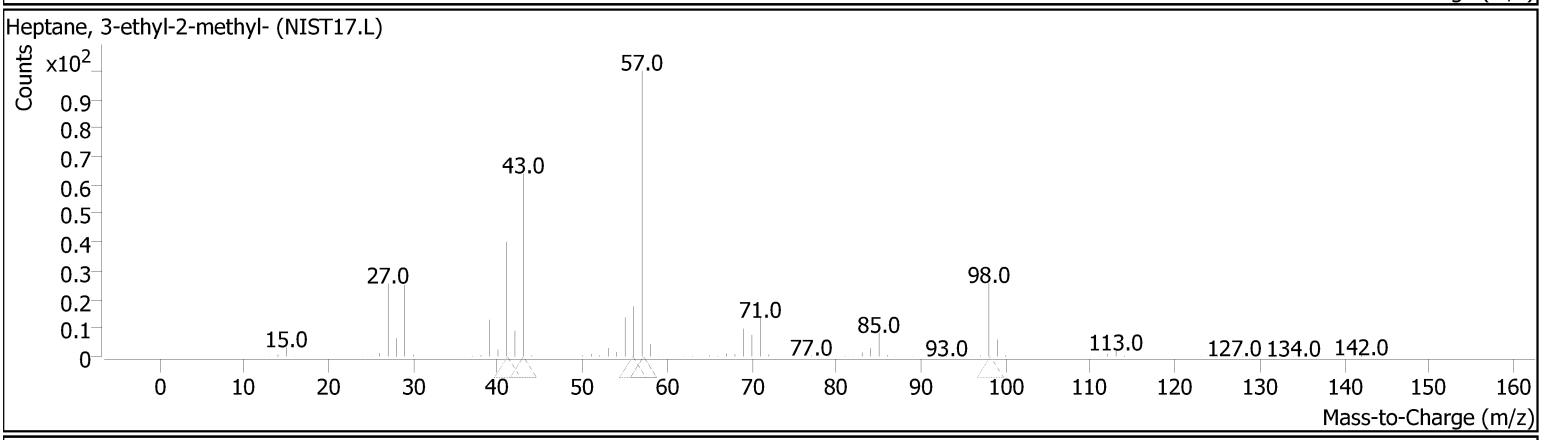



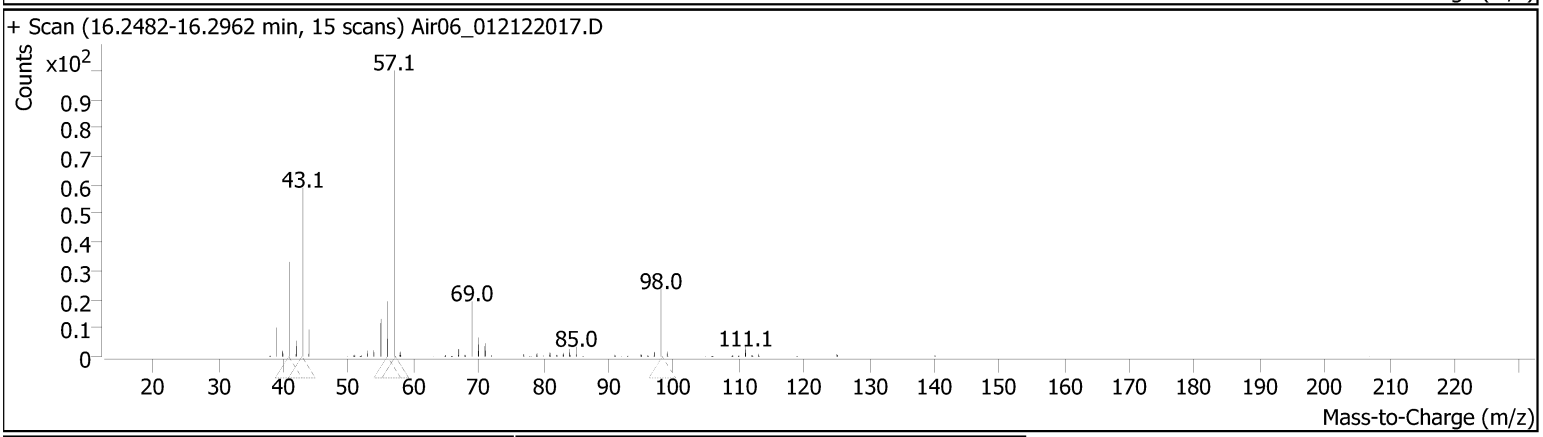



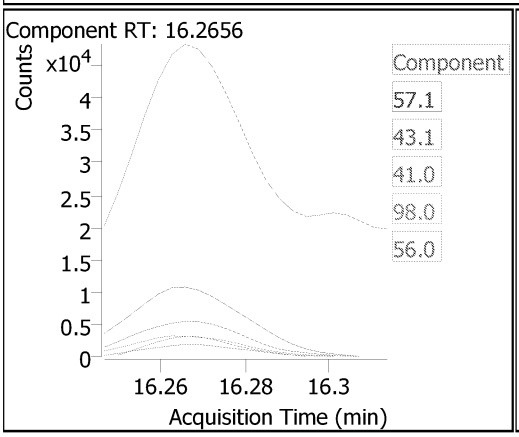



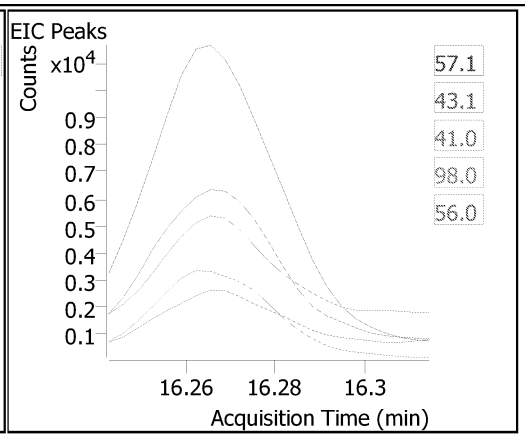
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.2656 | Heptane, 3-ethyl-2-methyl- | 52797.8 | 94.9 | 14676-29-0 | C10H22 | 0.1135 |

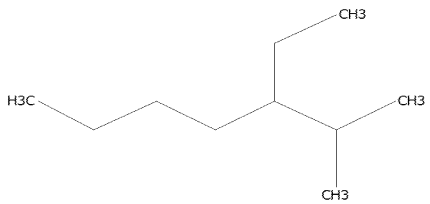


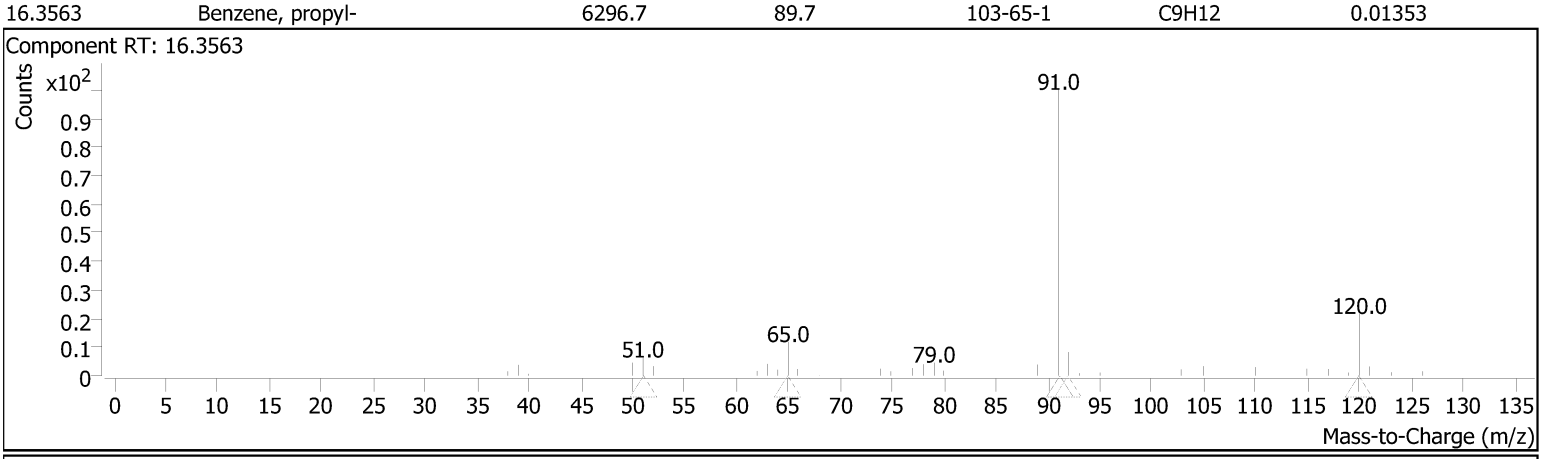



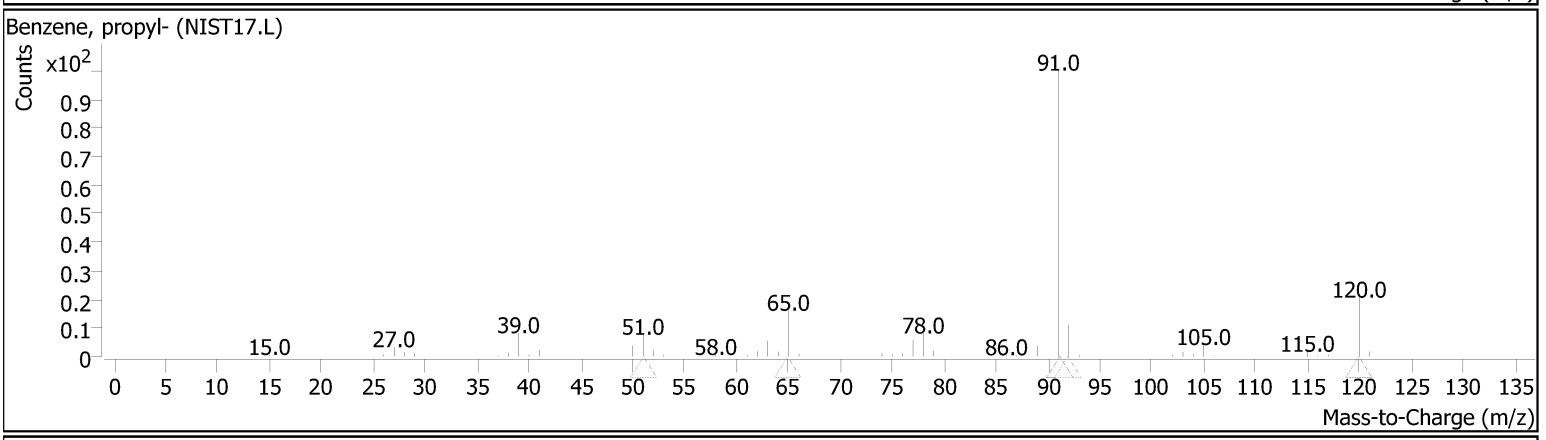



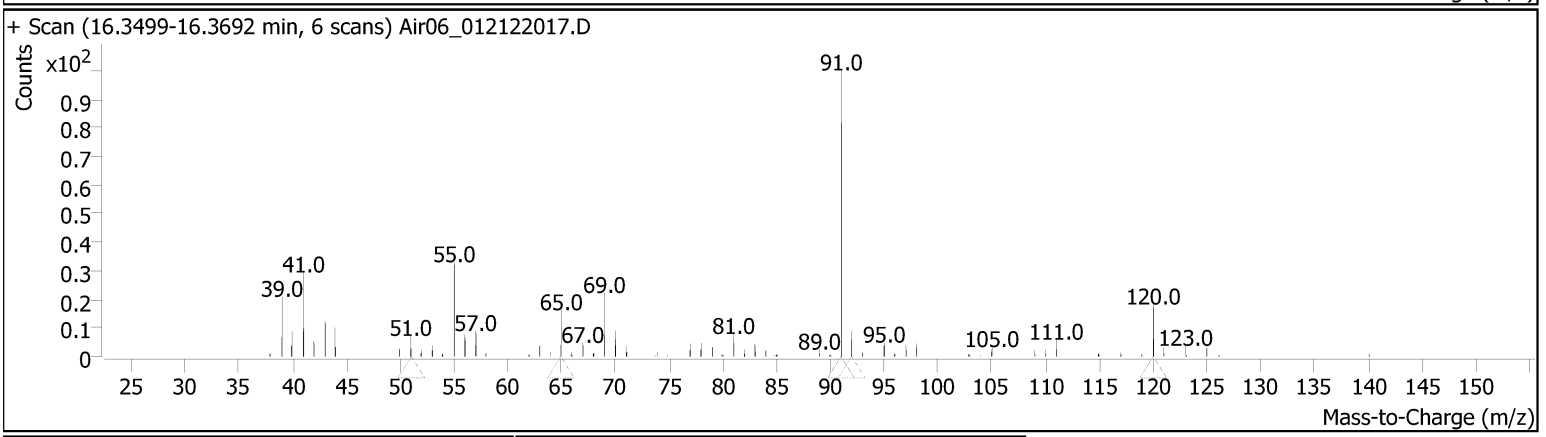



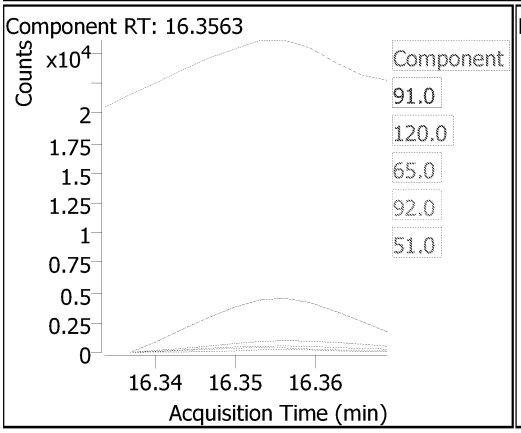



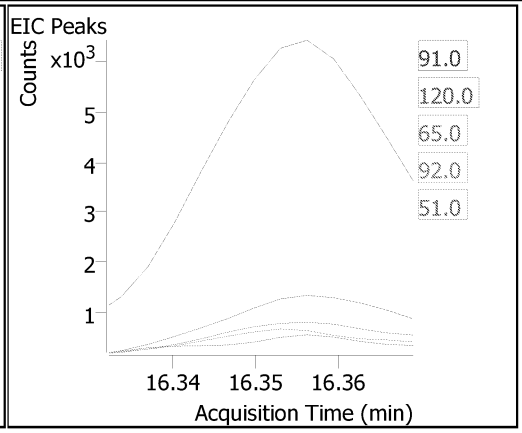
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.3563 | Benzene, propyl- | 6296.7 | 89.7 | 103-65-1 | C9H12 | 0.01353 |

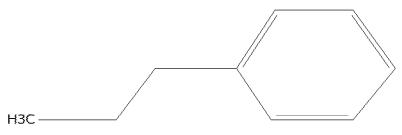


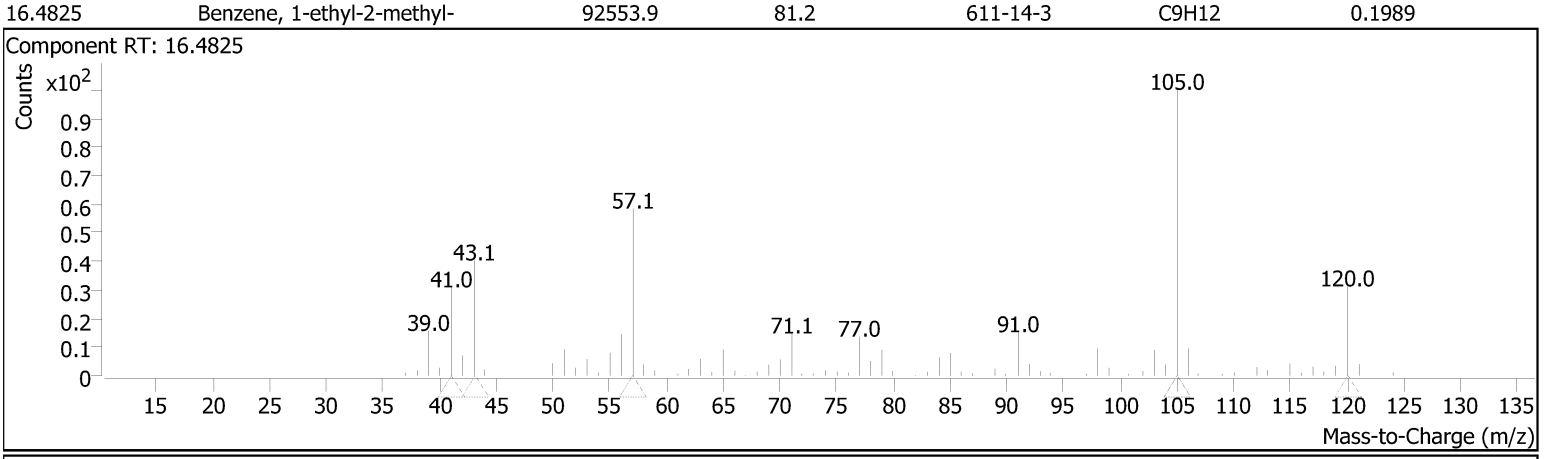



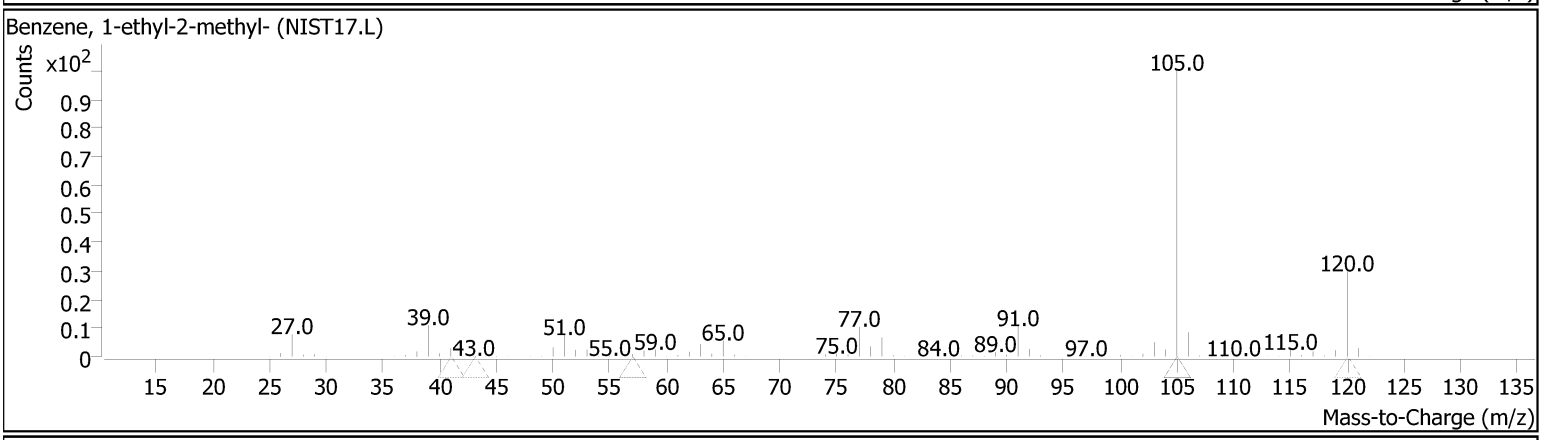



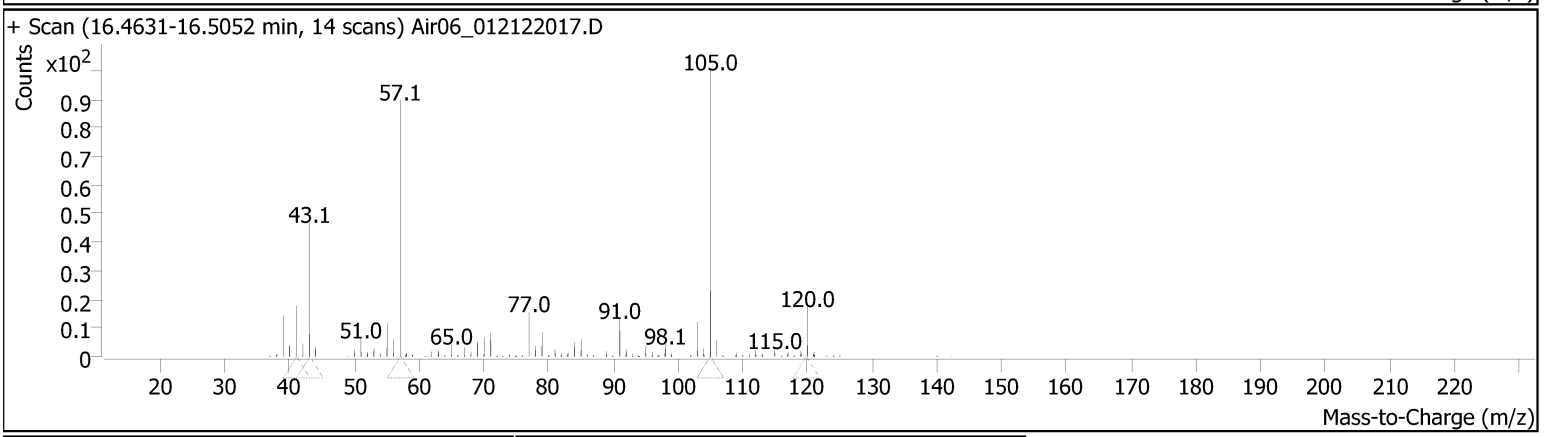



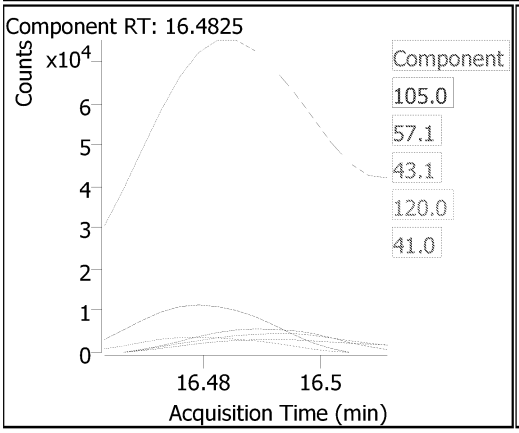



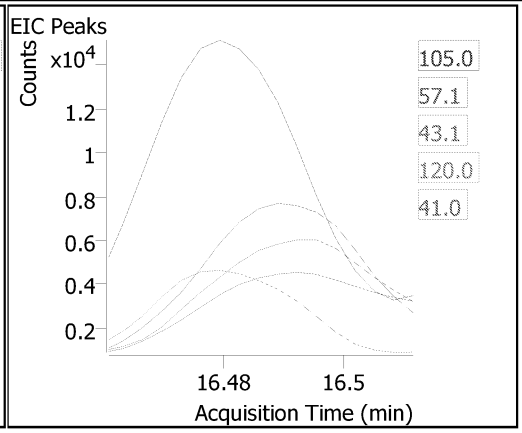
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.4825 | Benzene, 1-ethyl-2-methyl- | 92553.9 | 81.2 | 611-14-3 | C9H12 | 0.1989 |

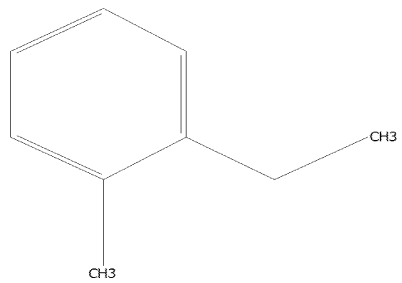


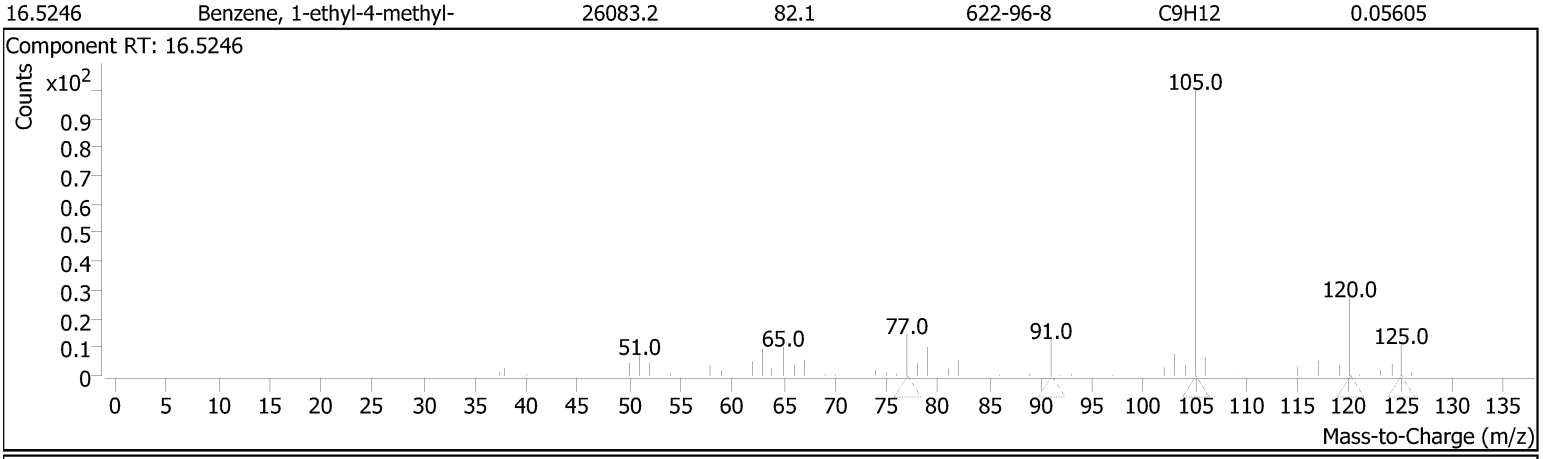



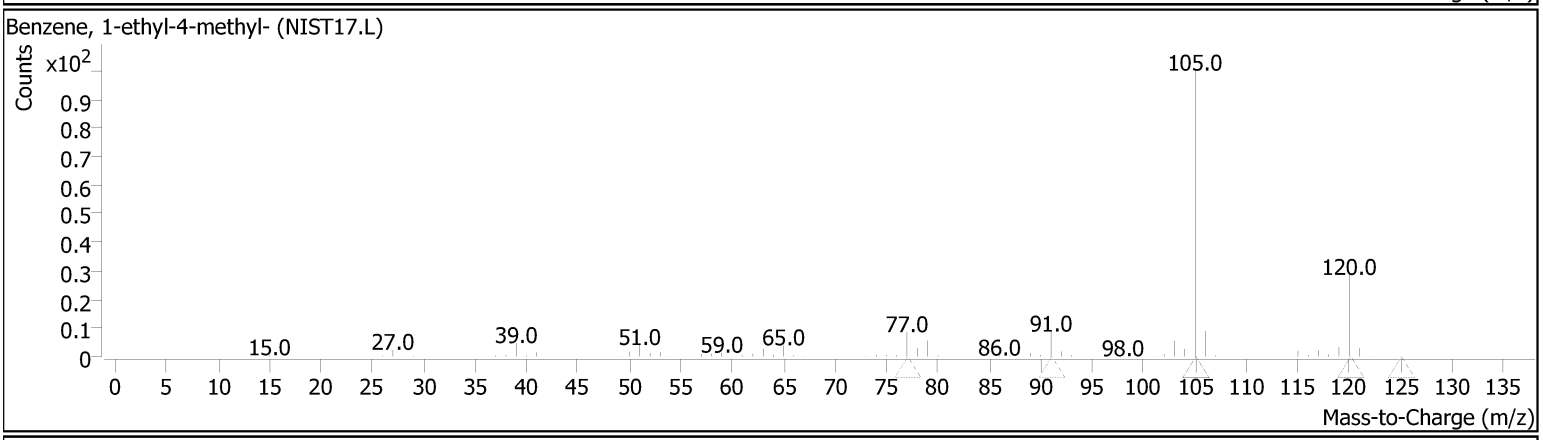



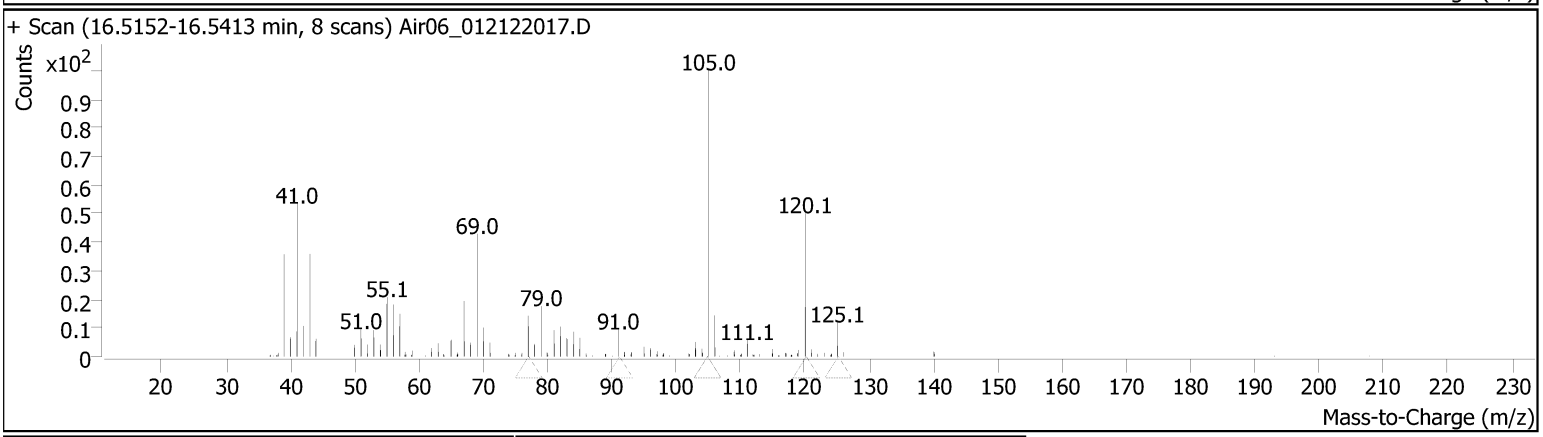



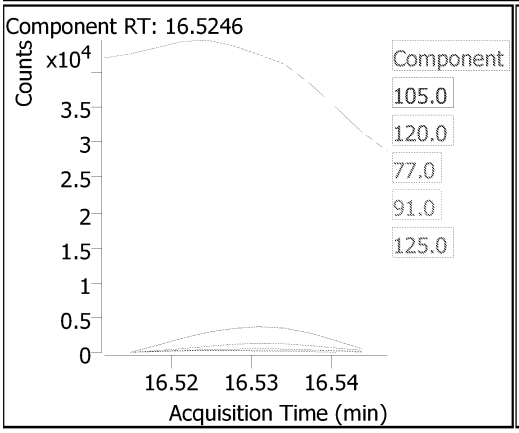



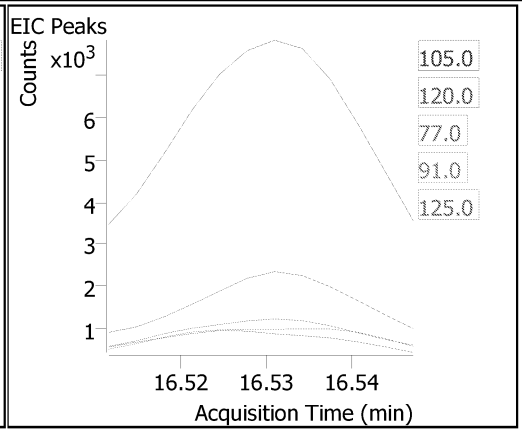
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.5246 | Benzene, 1-ethyl-4-methyl- | 26083.2 | 82.1 | 622-96-8 | C9H12 | 0.05605 |

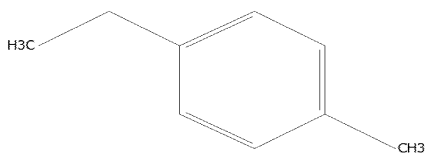


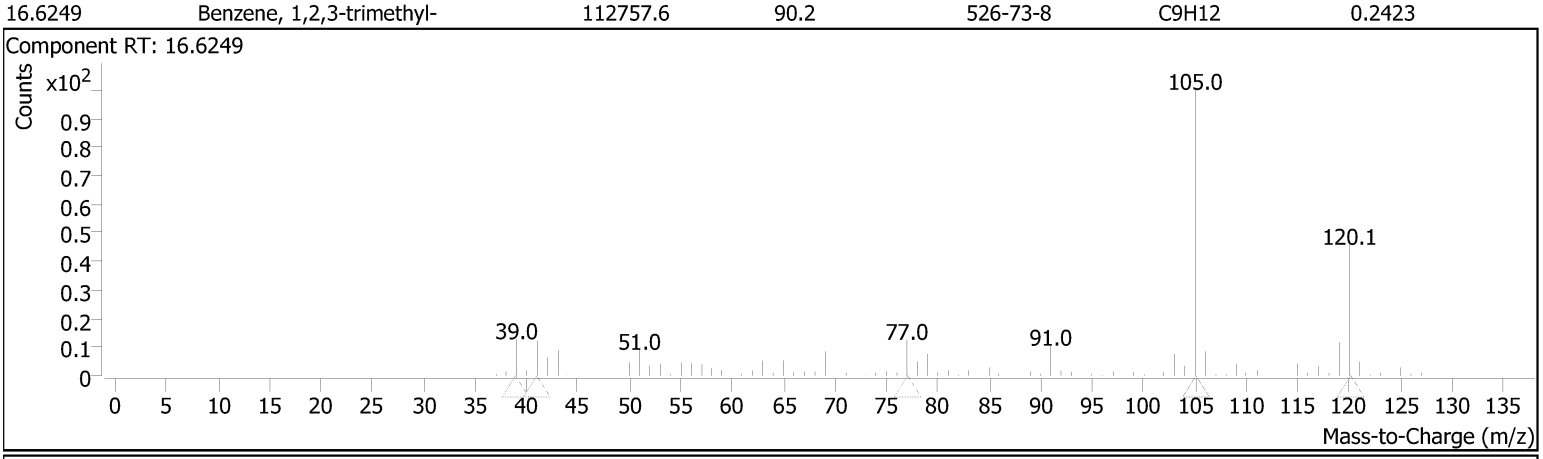



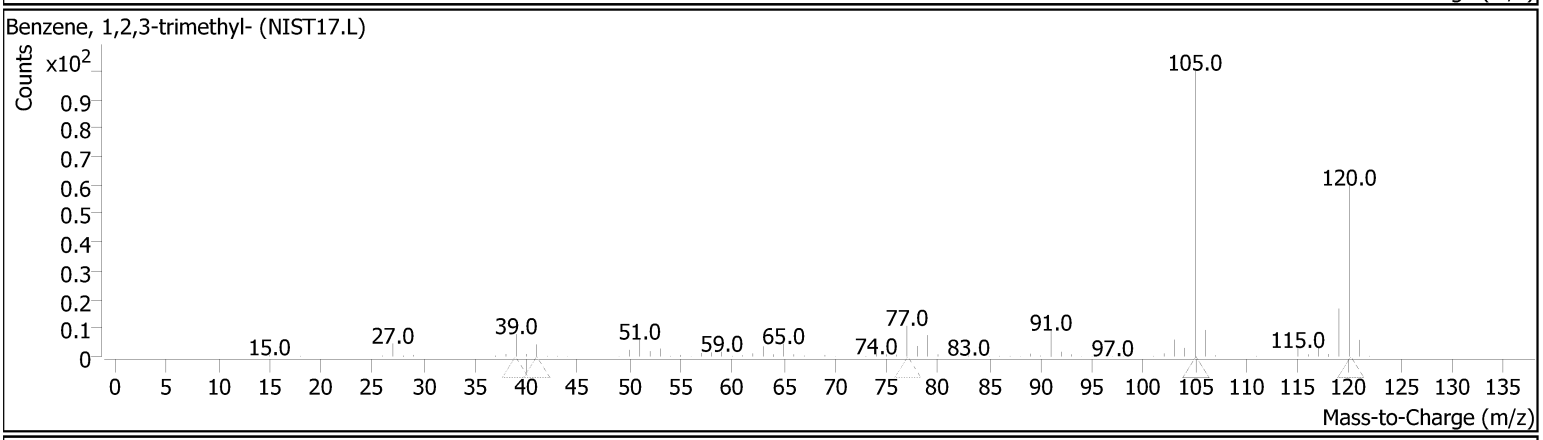



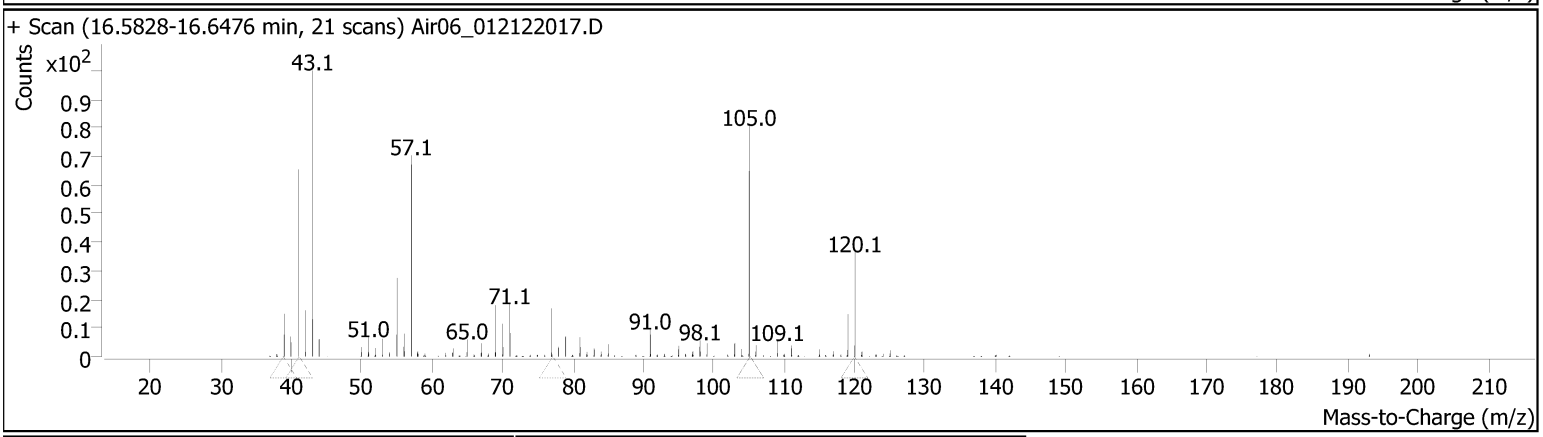



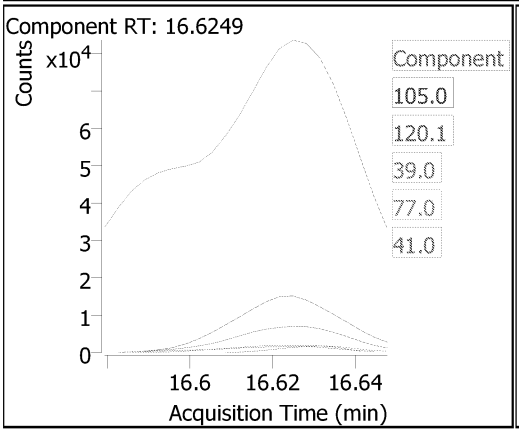



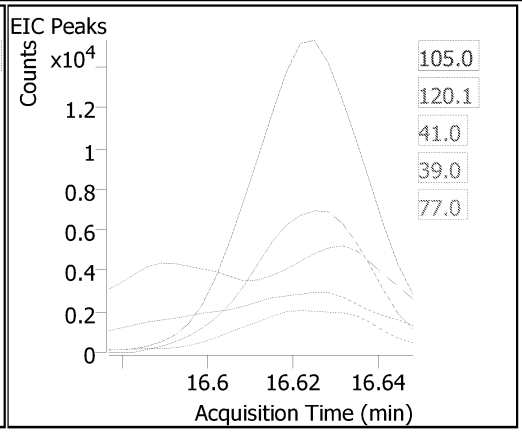
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.6249 | Benzene, 1,2,3-trimethyl- | 112757.6 | 90.2 | 526-73-8 | C9H12 | 0.2423 |

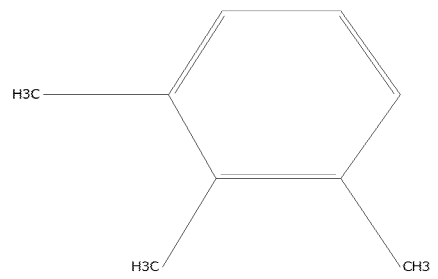


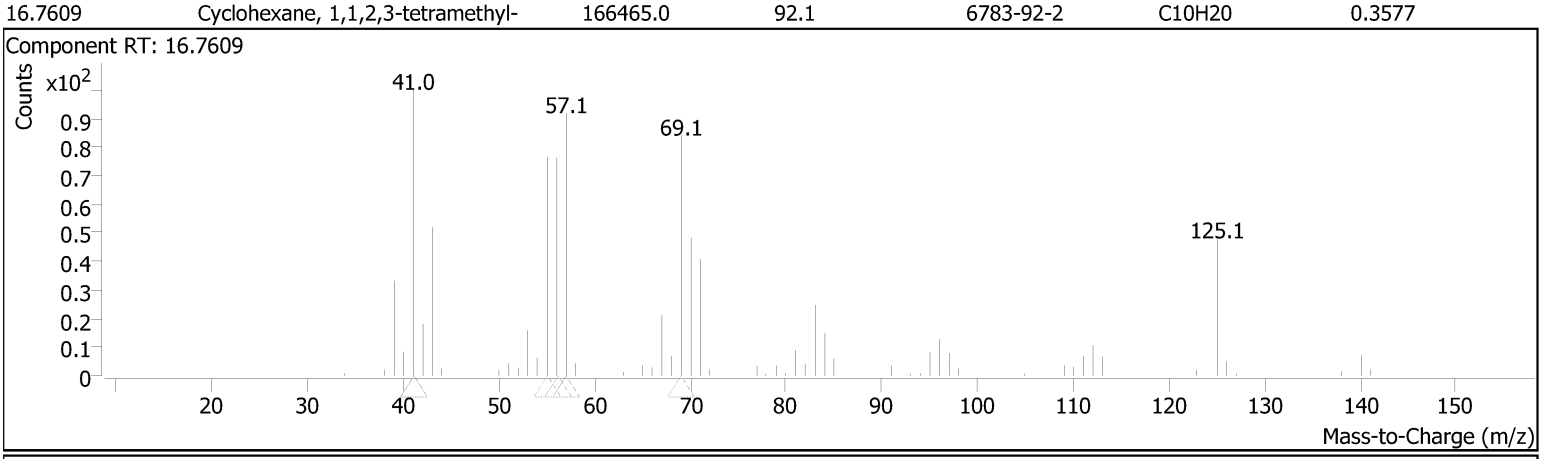



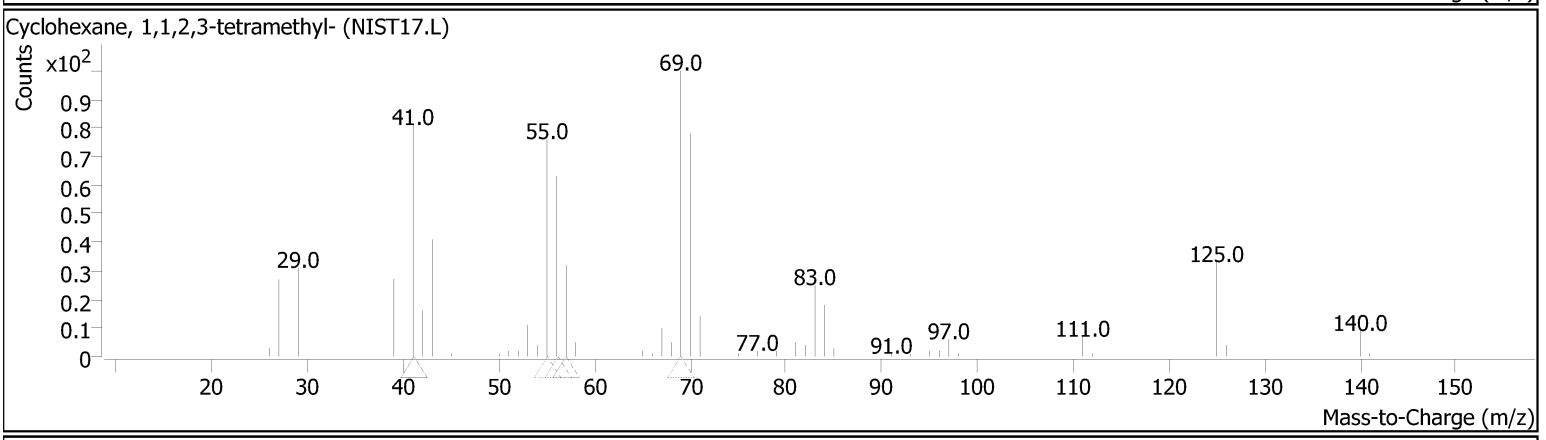



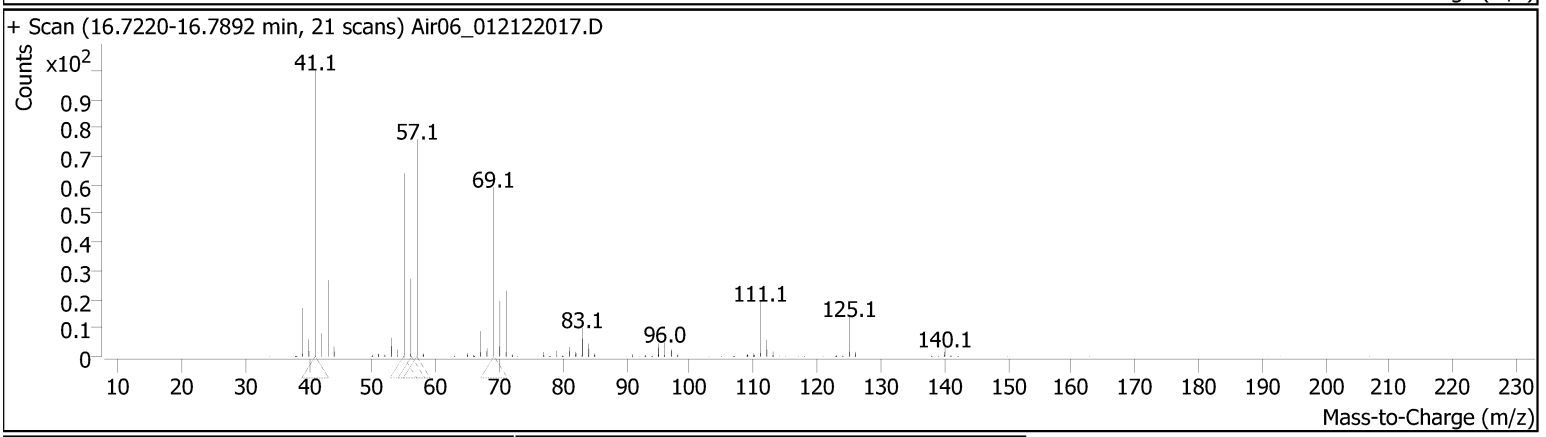



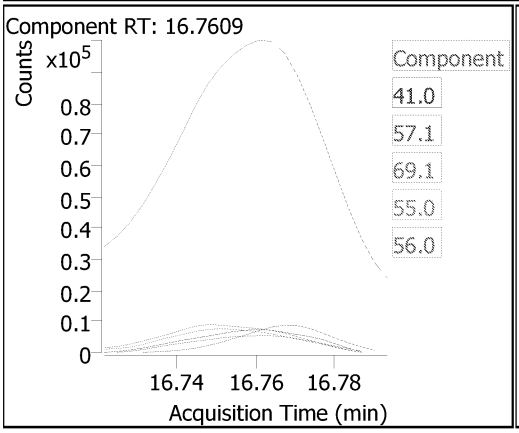



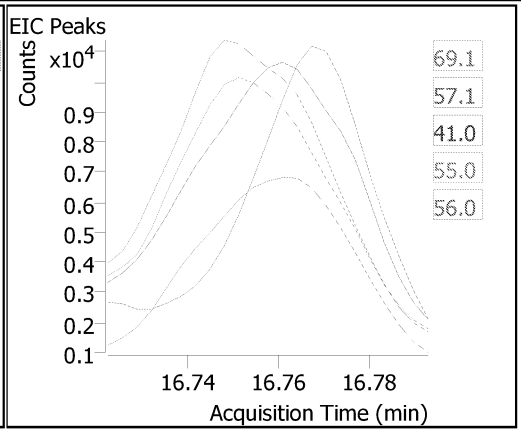
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.7609 | Cyclohexane, 1,1,2,3-tetramethyl- | 166465.0 | 92.1 | 6783-92-2 | C10H20 | 0.3577 |

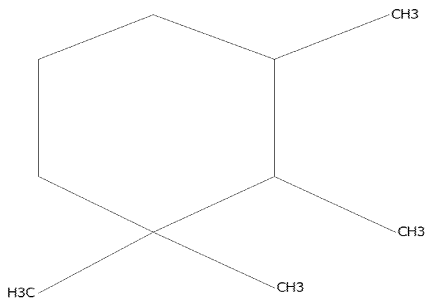


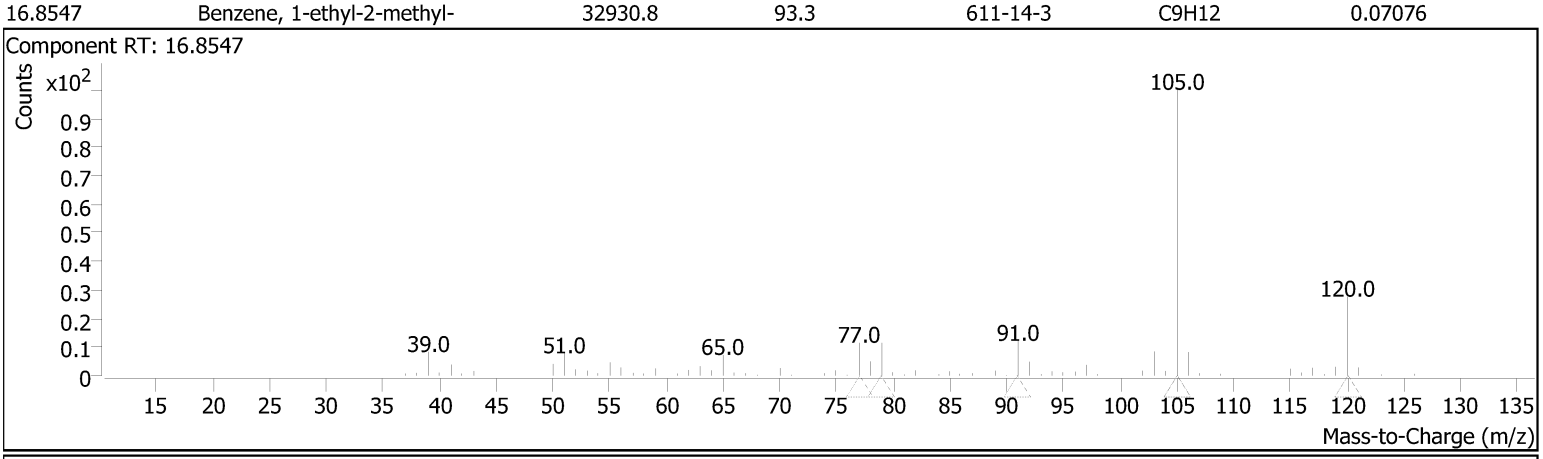



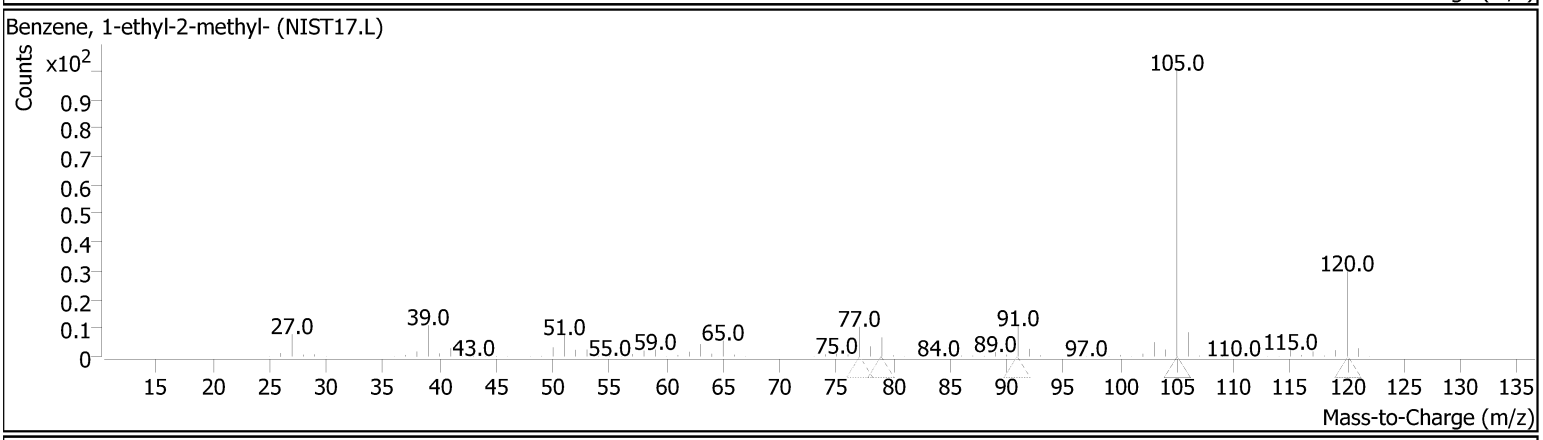



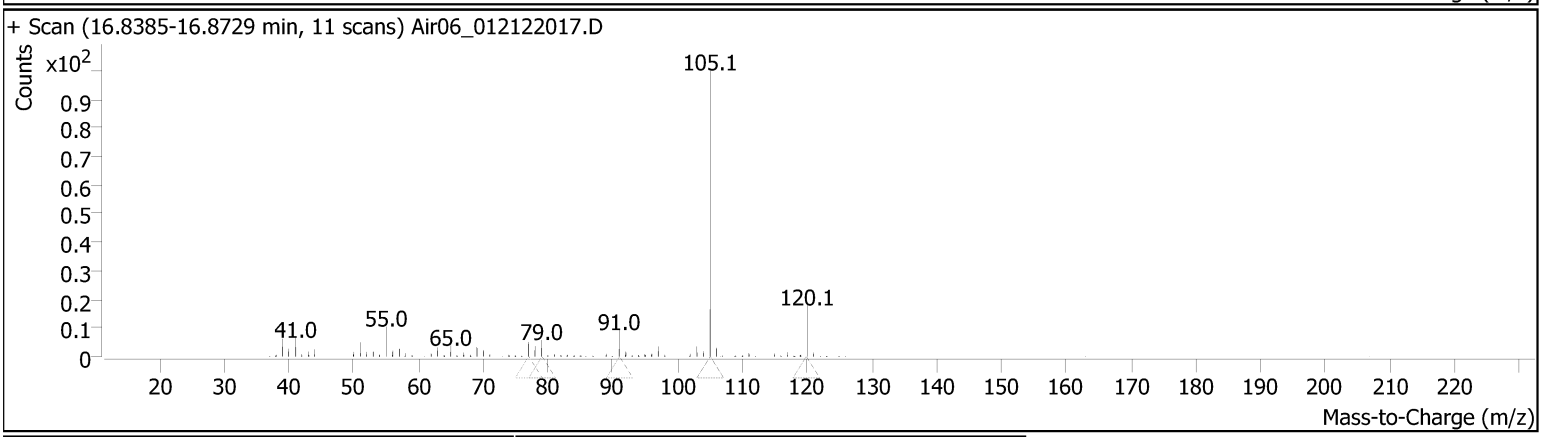



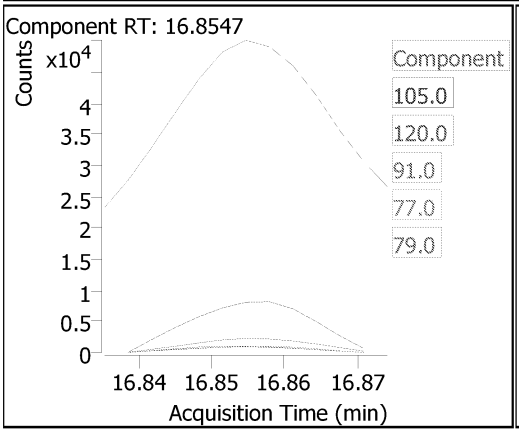



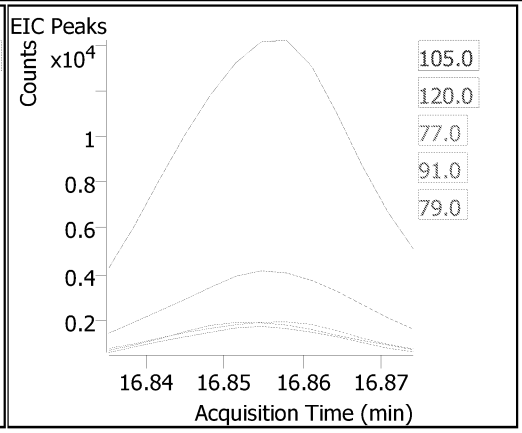
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.8547 | Benzene, 1-ethyl-2-methyl- | 32930.8 | 93.3 | 611-14-3 | C9H12 | 0.07076 |

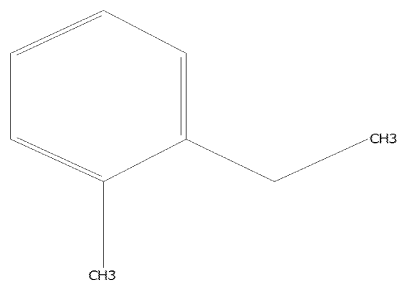


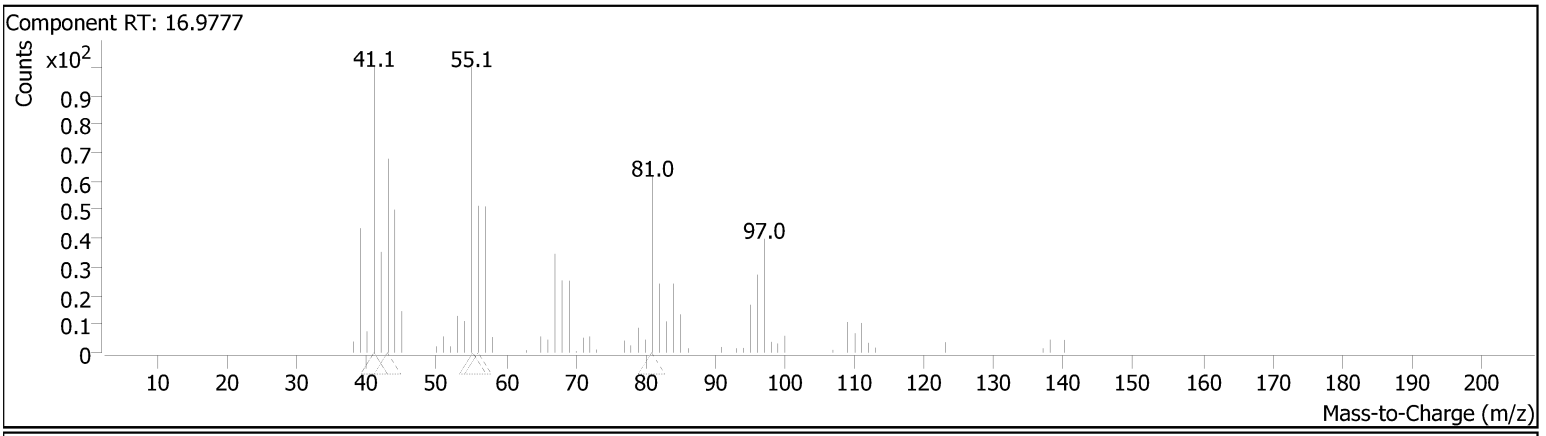



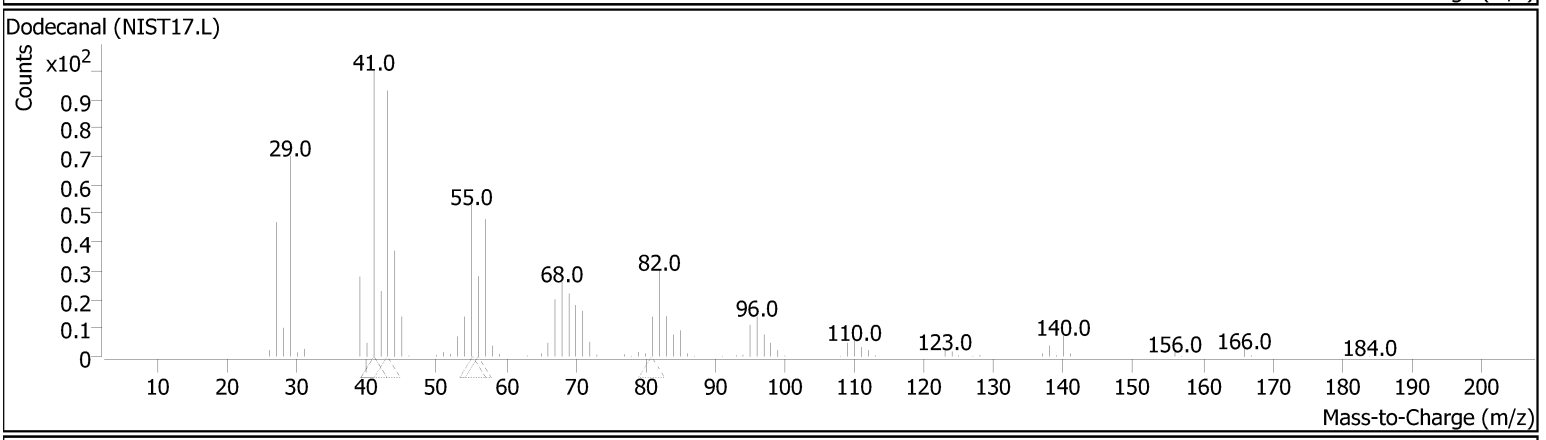



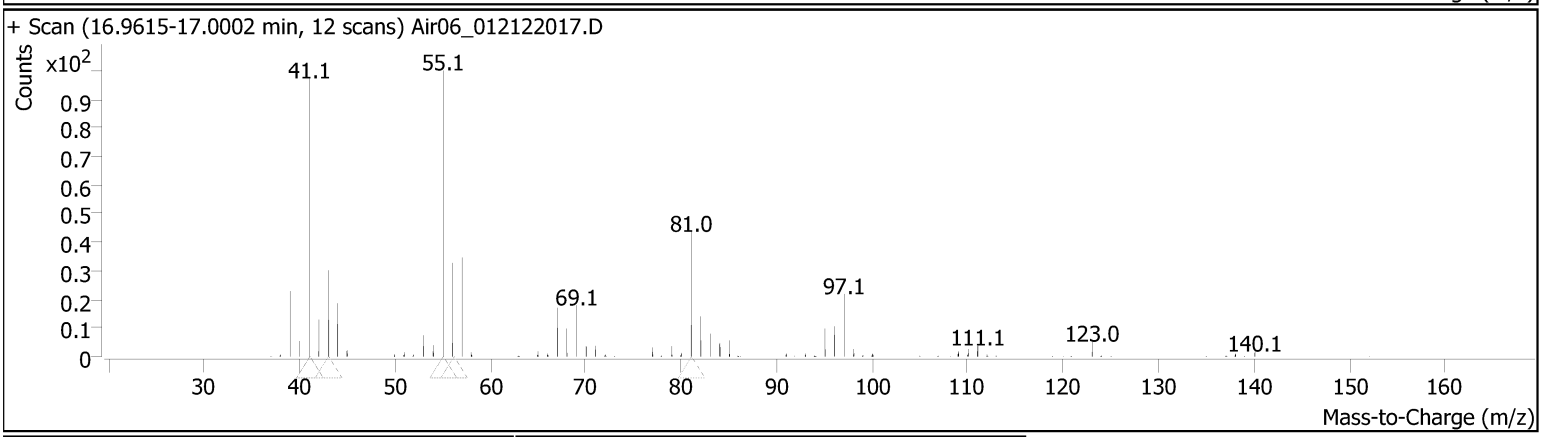



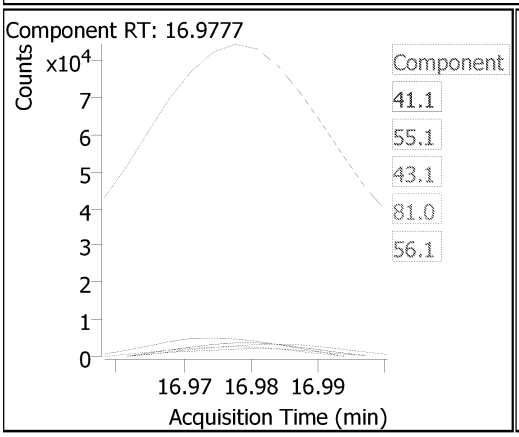



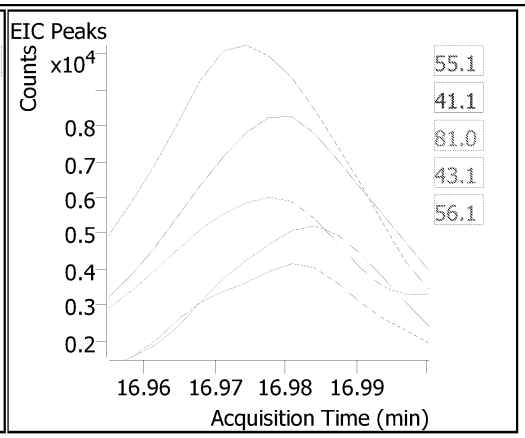
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.9777 | Dodecanal | 73087.9 | 88.7 | 112-54-9 | C12H24O | 0.1571 |

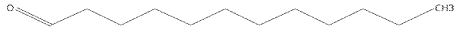


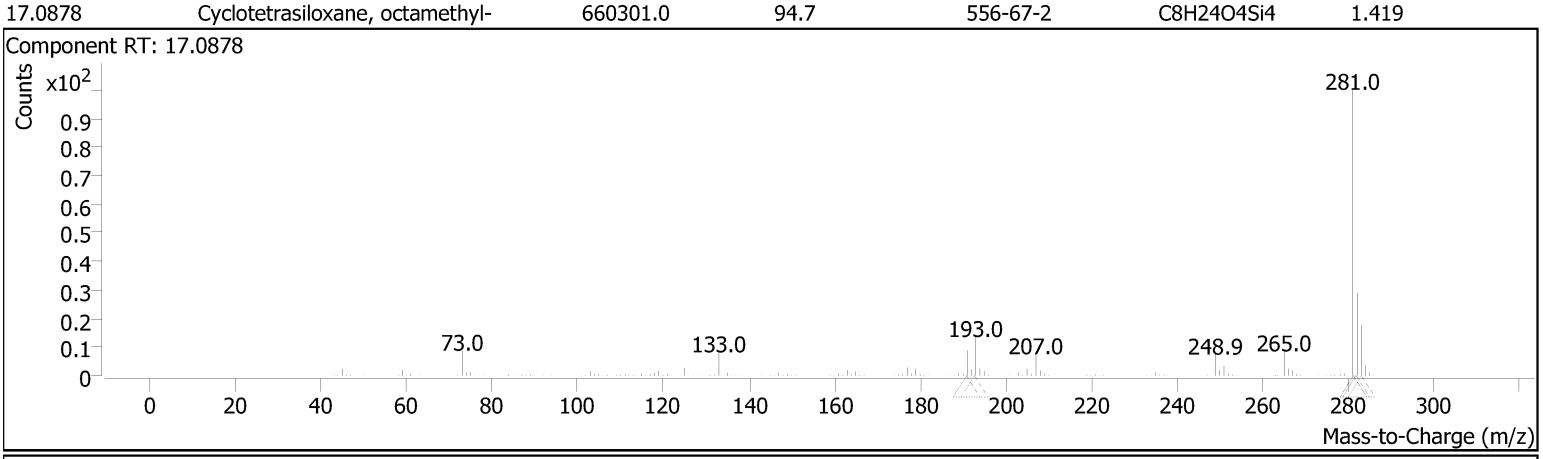



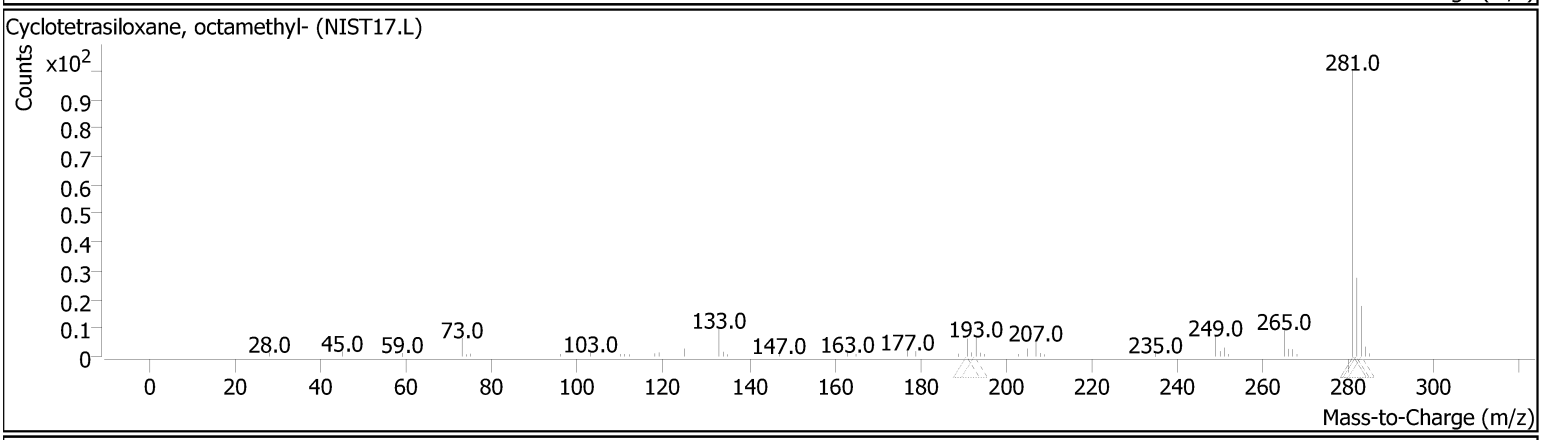



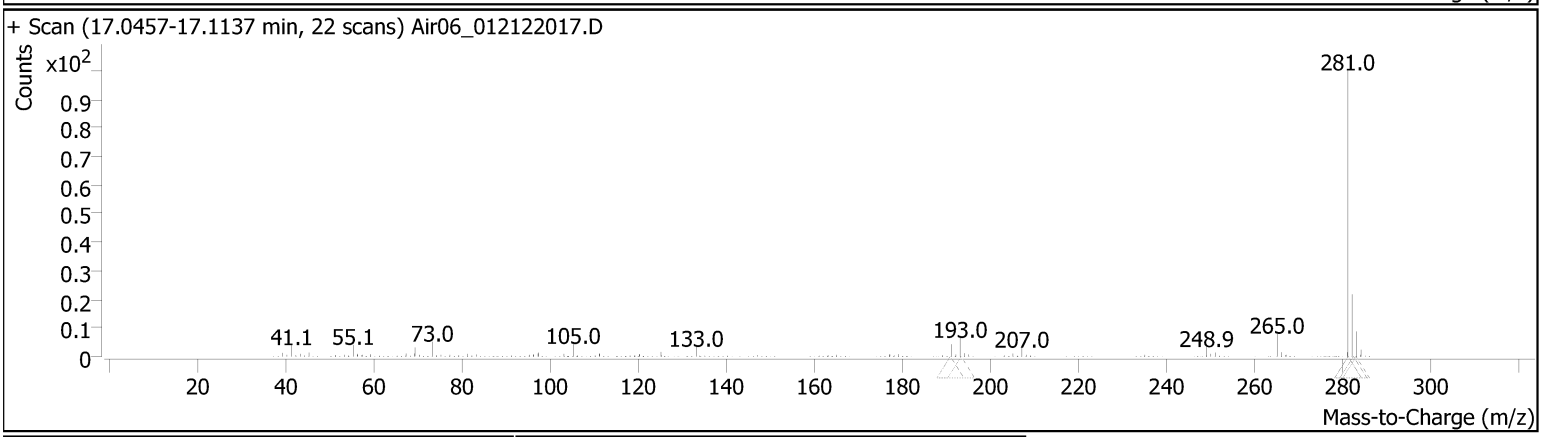



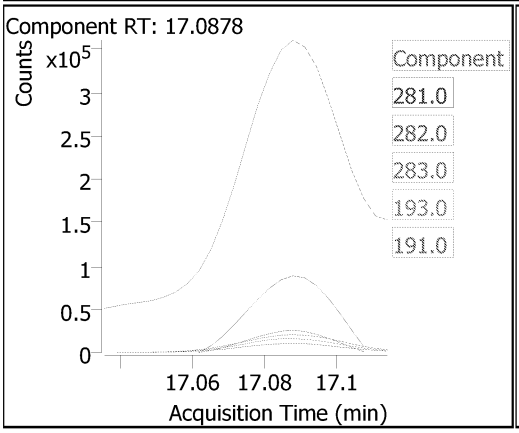



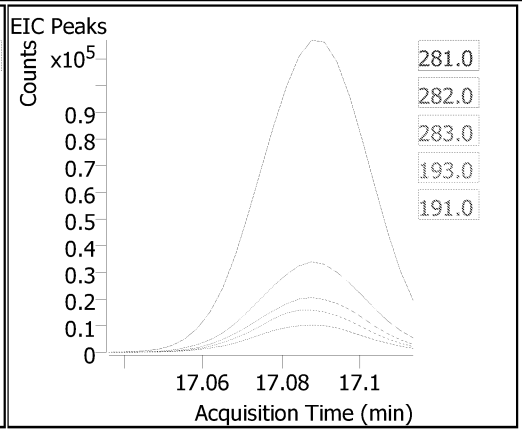
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.0878 | Cyclotetrasiloxane, octamethyl- | 660301.0 | 94.7 | 556-67-2 | C8H24O4Si4 | 1.419 |

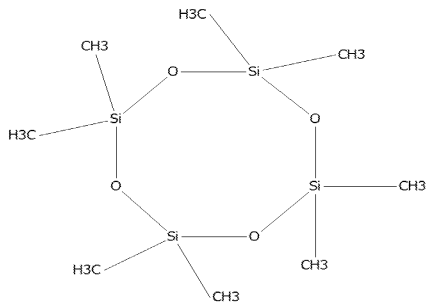


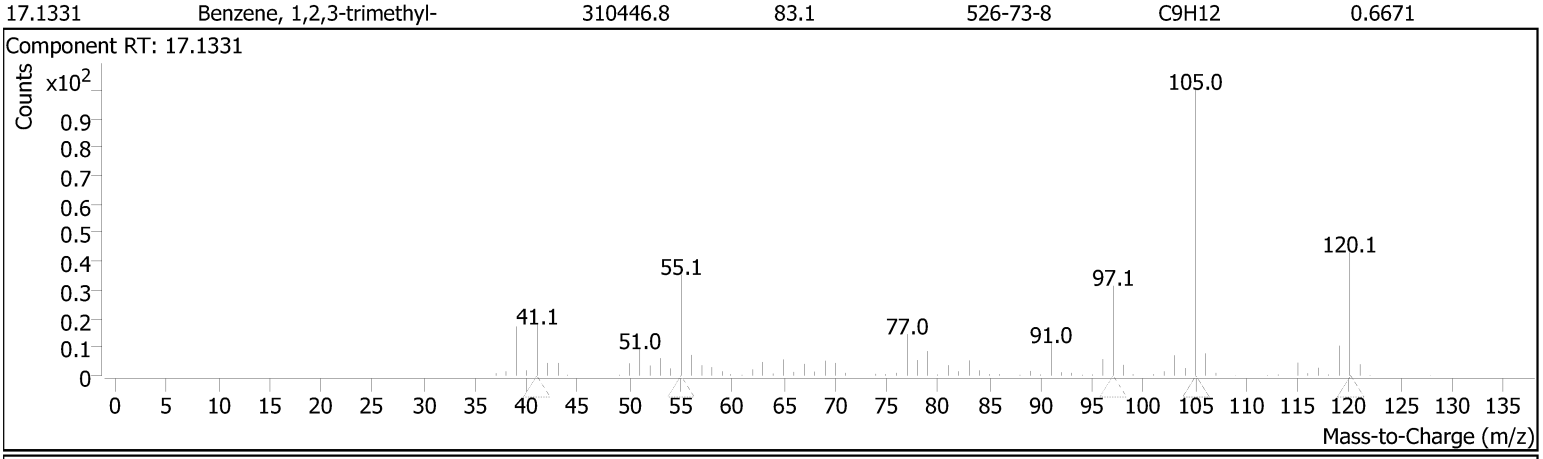



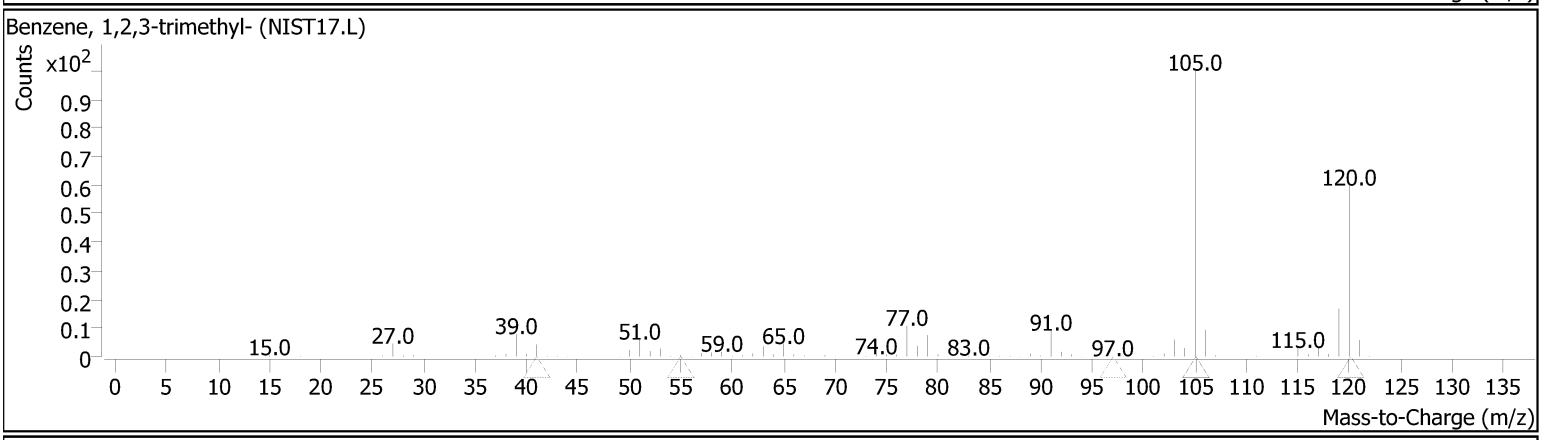



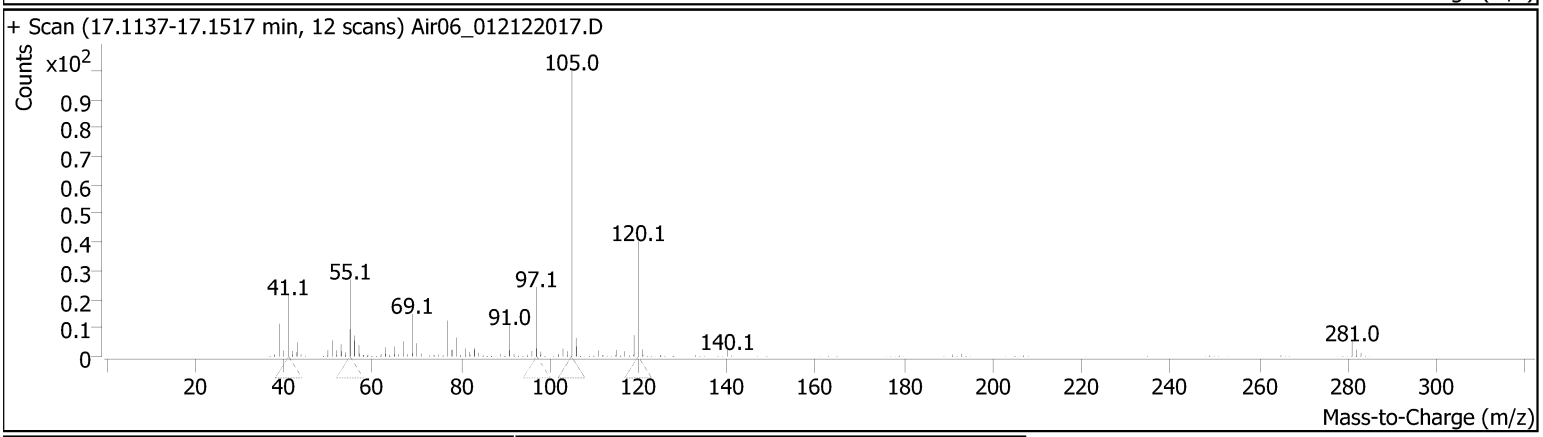



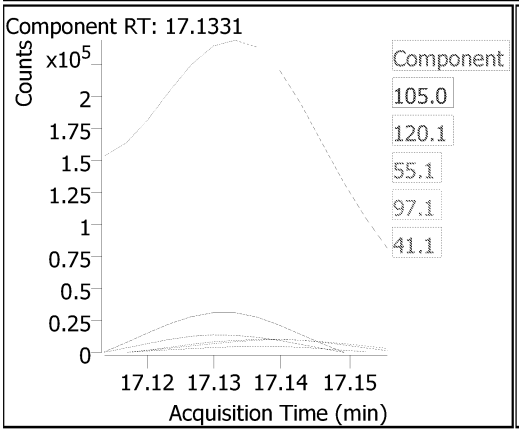



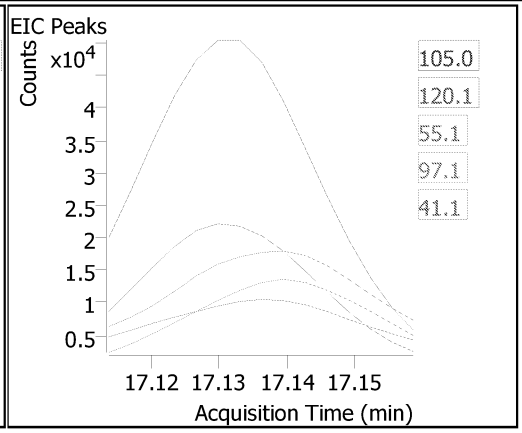
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.1331 | Benzene, 1,2,3-trimethyl- | 310446.8 | 83.1 | 526-73-8 | C9H12 | 0.6671 |

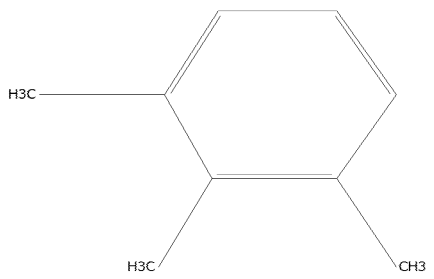


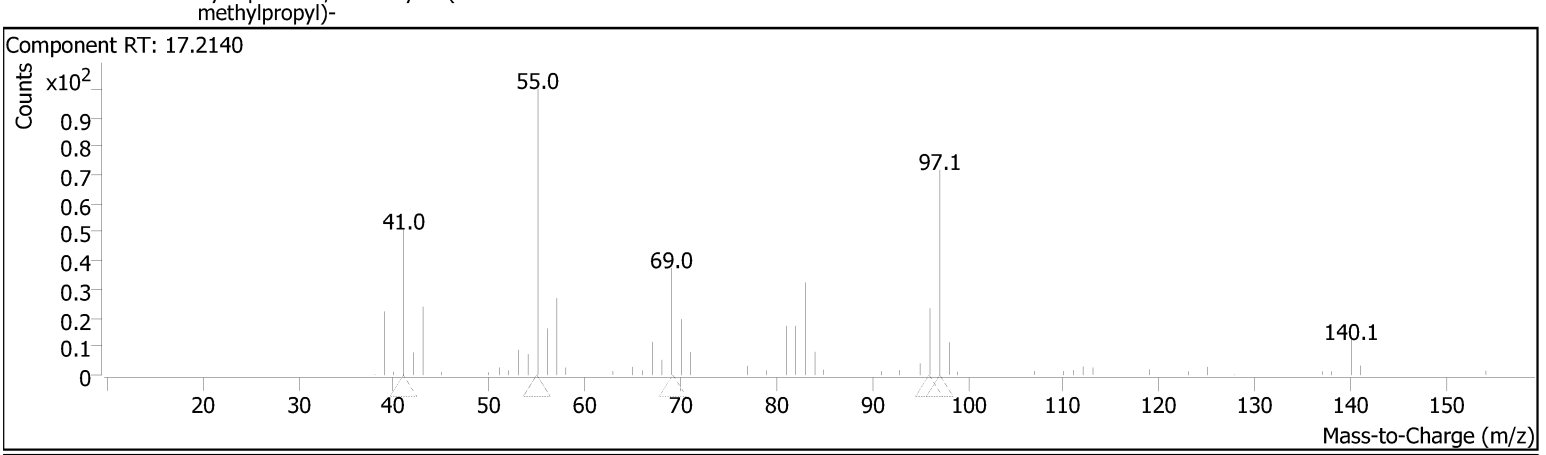



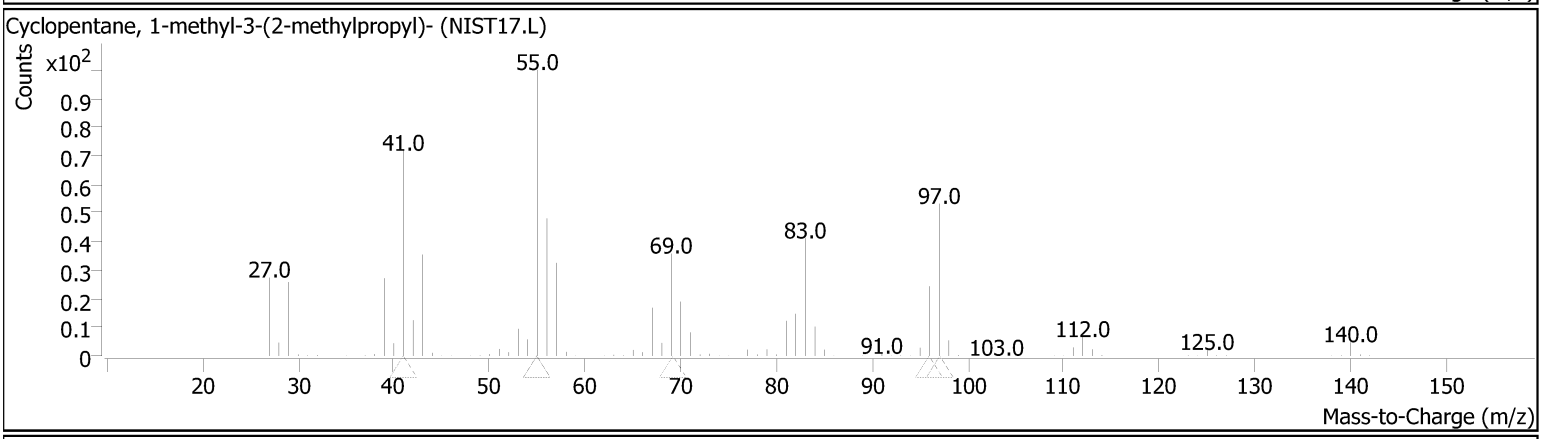



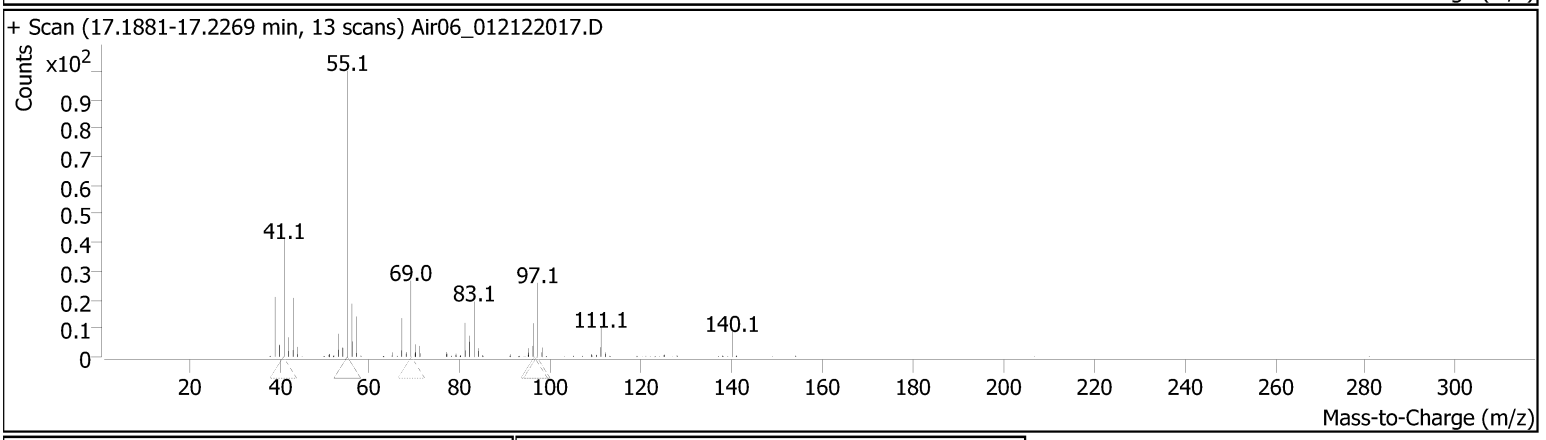



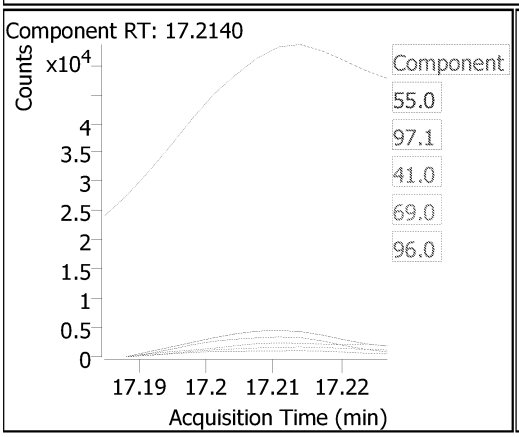



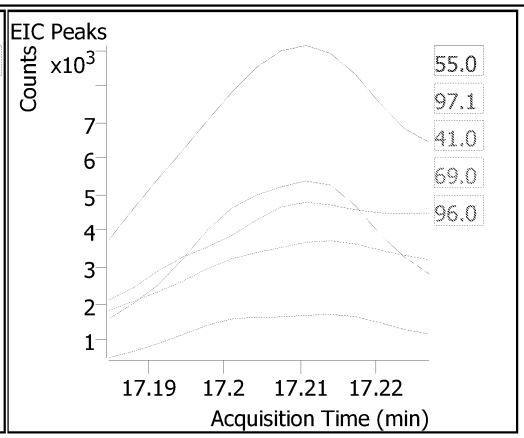
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.2140 | Cyclopentane, 1-methyl-3-(2-methylpropyl)- | 20960.5 | 93.8 | 29053-04-1 | C10H20 | 0.04504 |

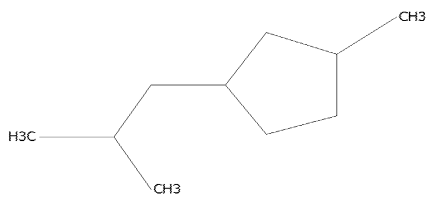


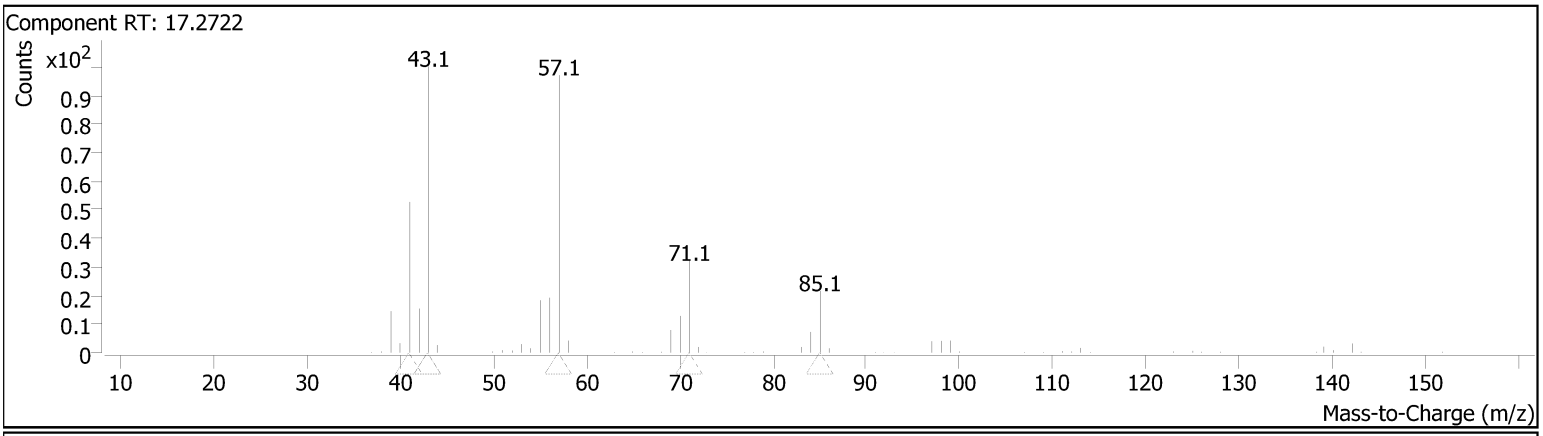



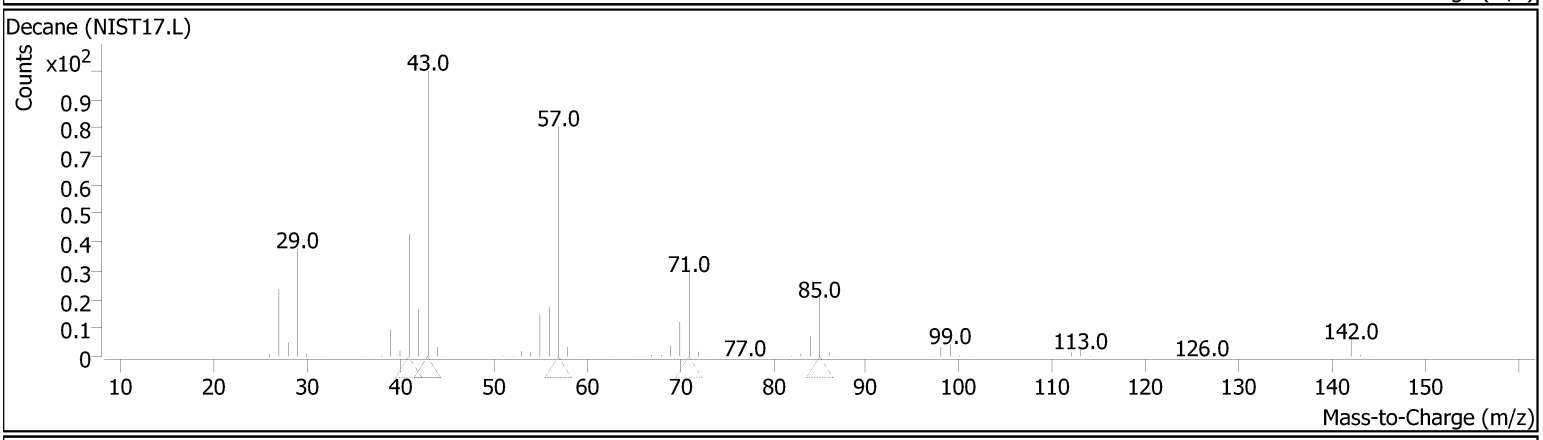



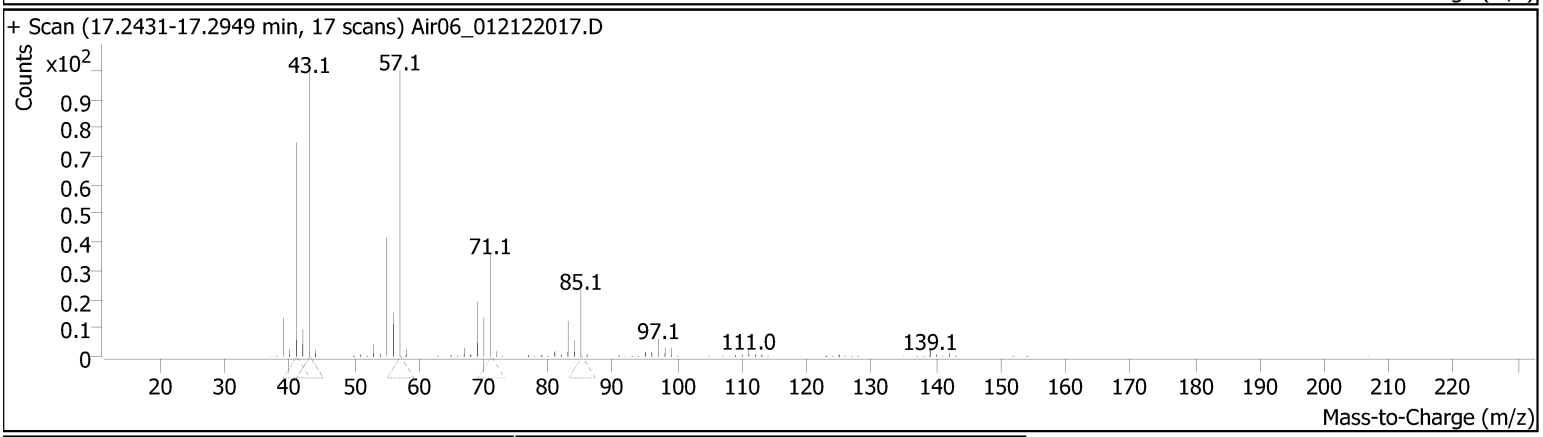



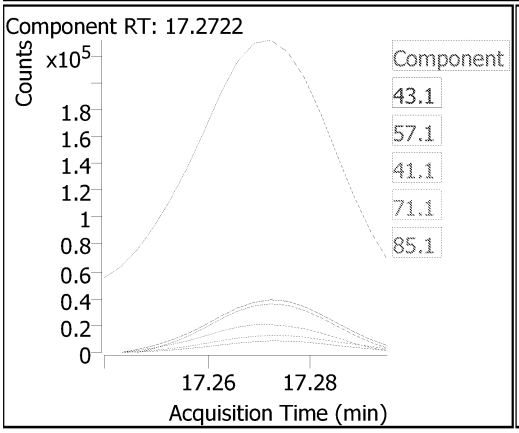



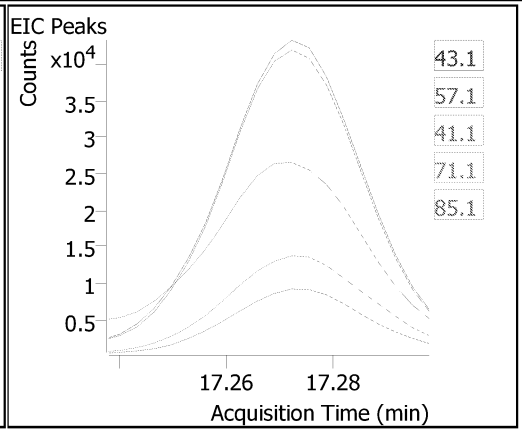
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.2722 | Decane | 317442.9 | 95.4 | 124-18-5 | C10H22 | 0.6821 |



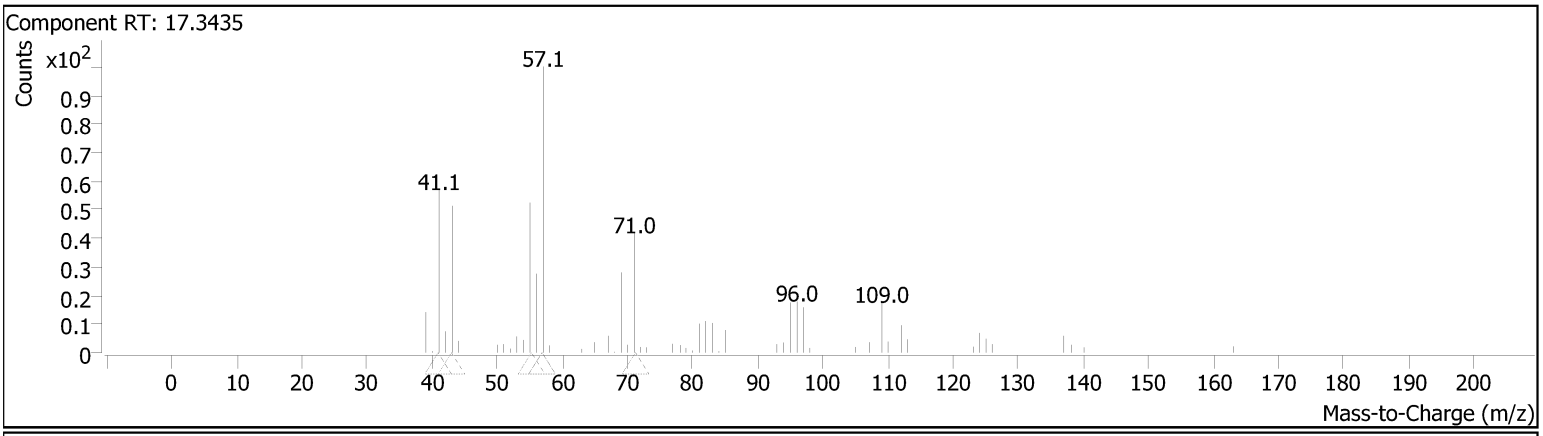



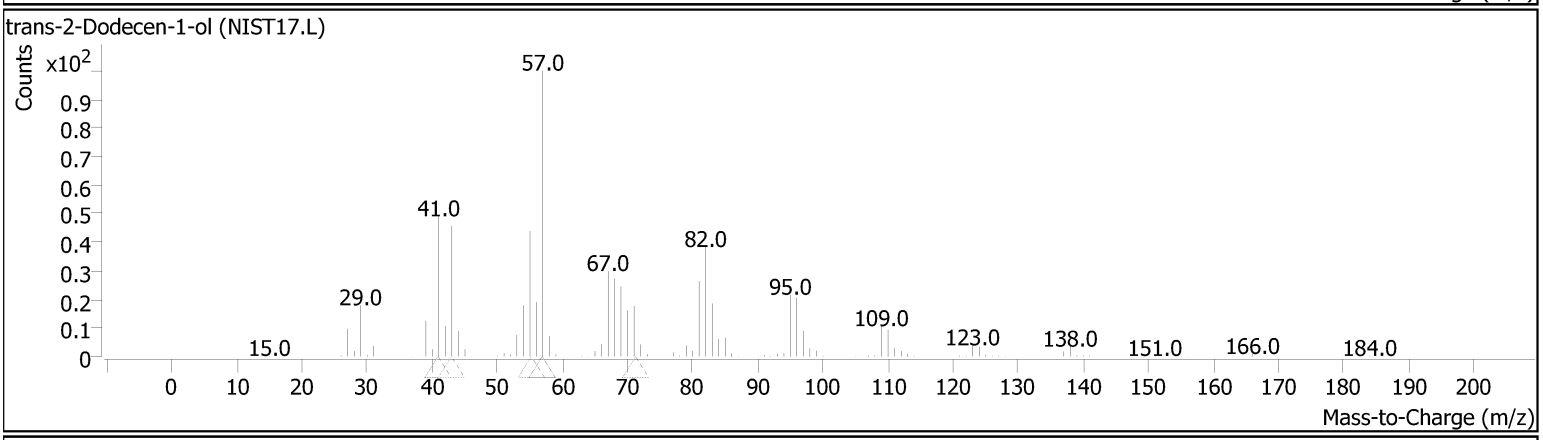



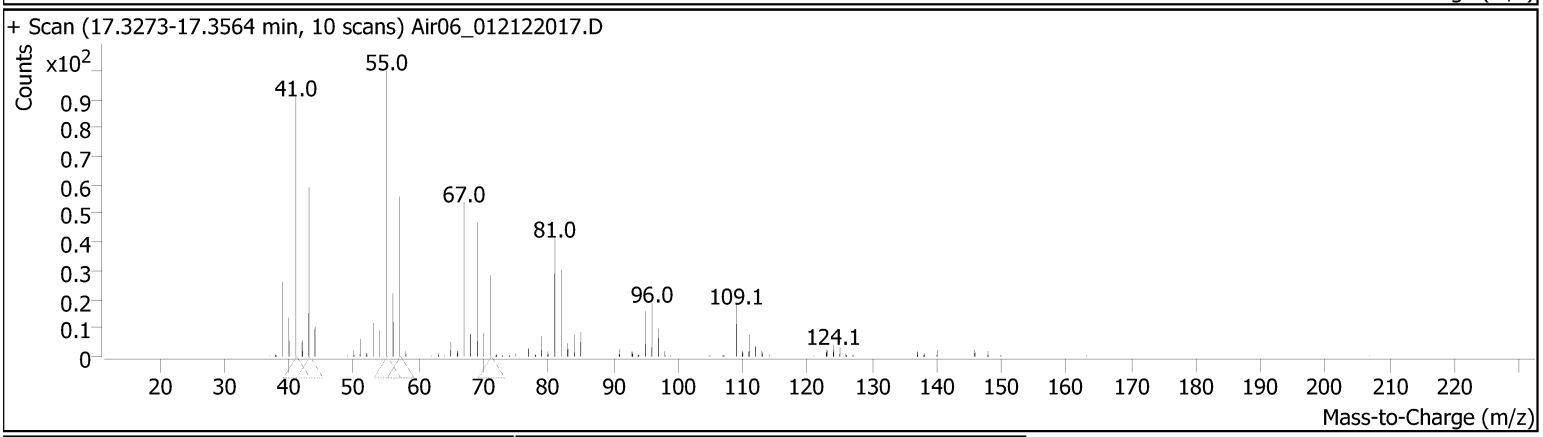



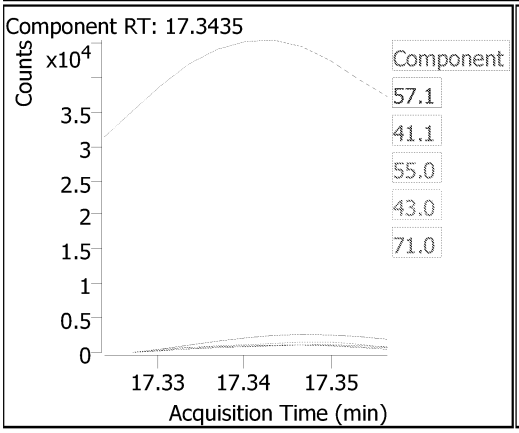


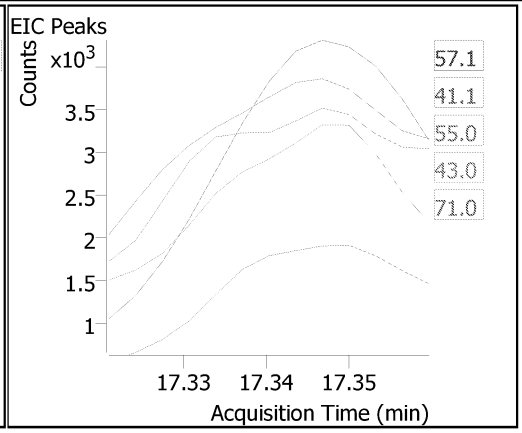

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.3435 | trans-2-Dodecen-1-ol | 19093.9 | 81.7 | 69064-37-5 | C12H24O | 0.04103 |

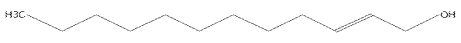


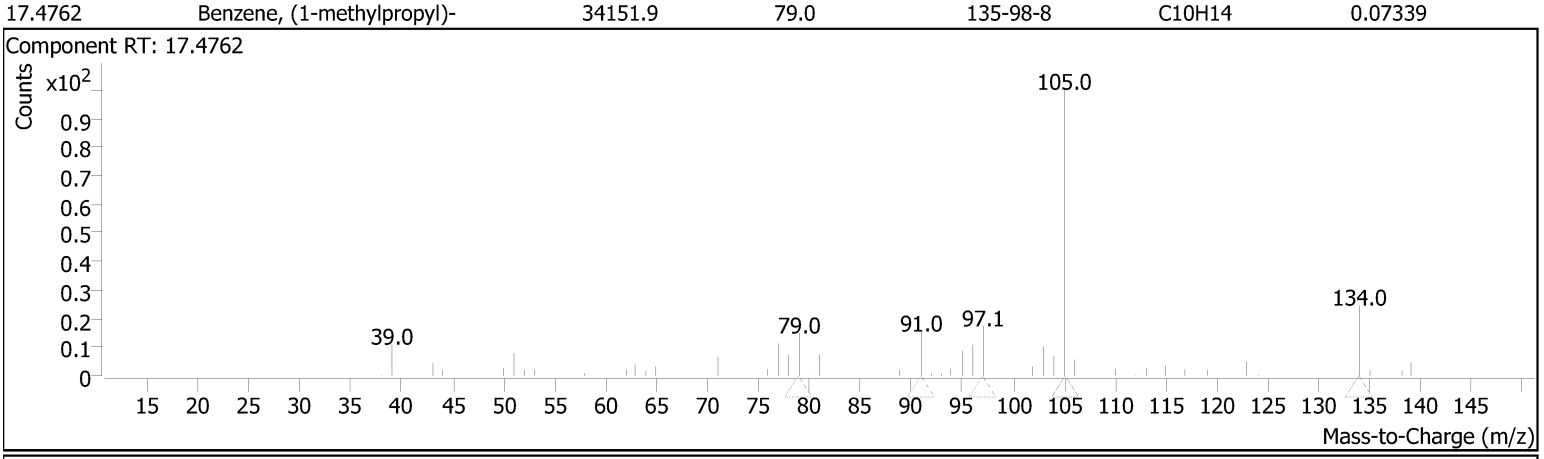



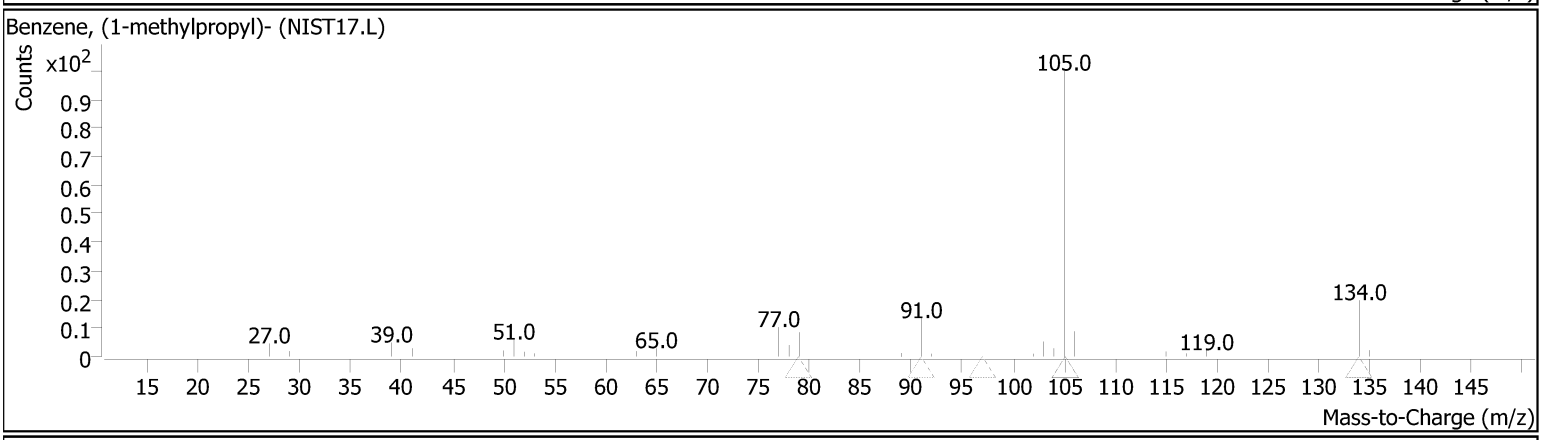



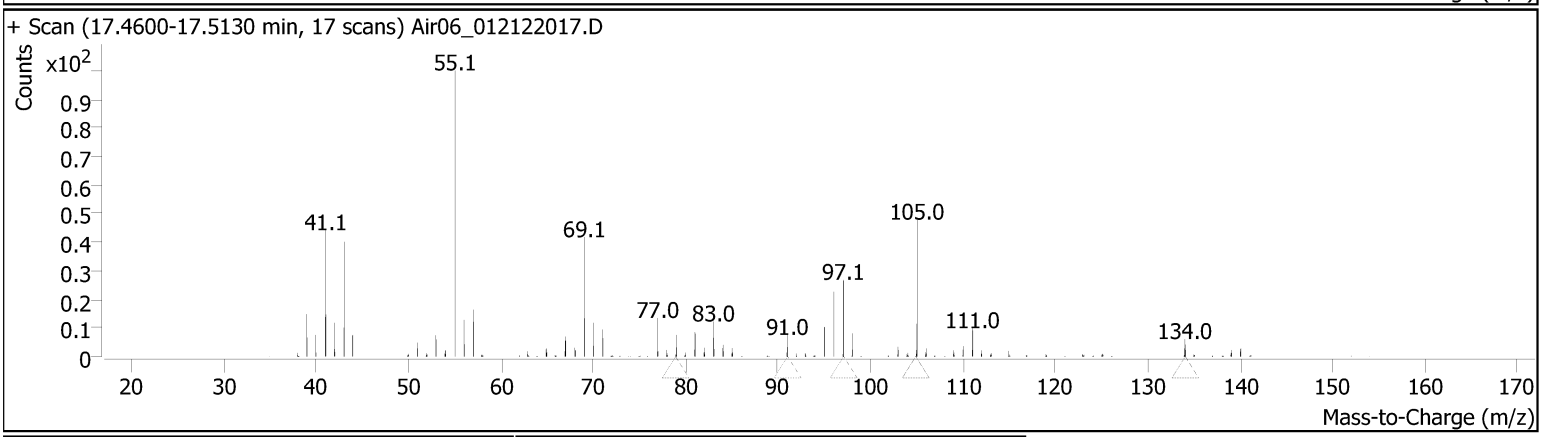



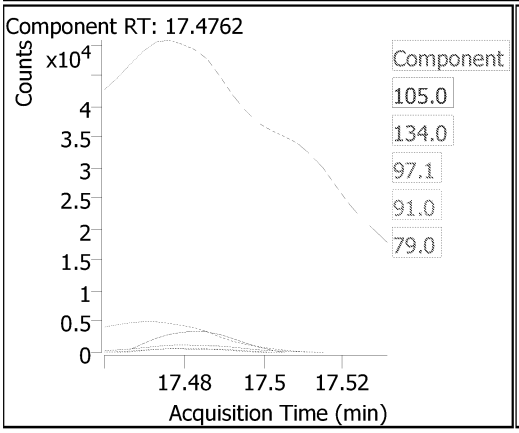



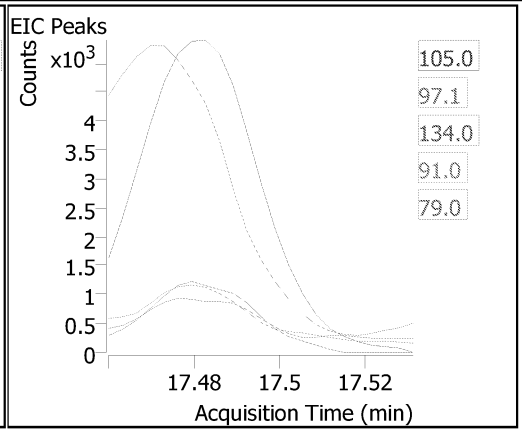
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4762 | Benzene, (1-methylpropyl)- | 34151.9 | 79.0 | 135-98-8 | C10H14 | 0.07339 |

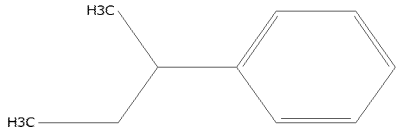


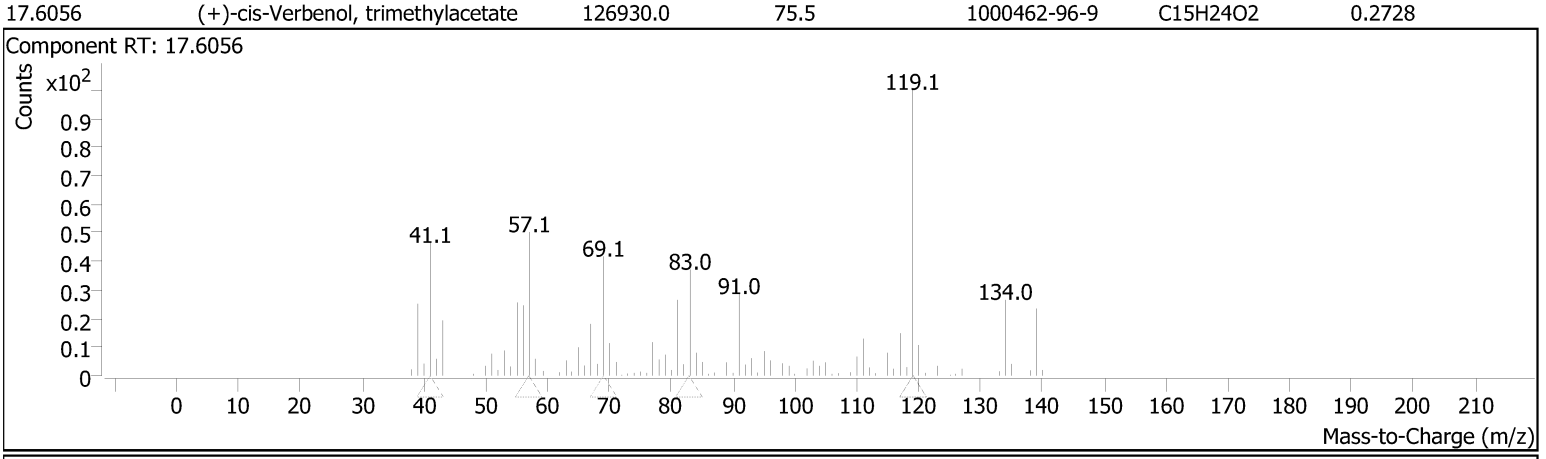



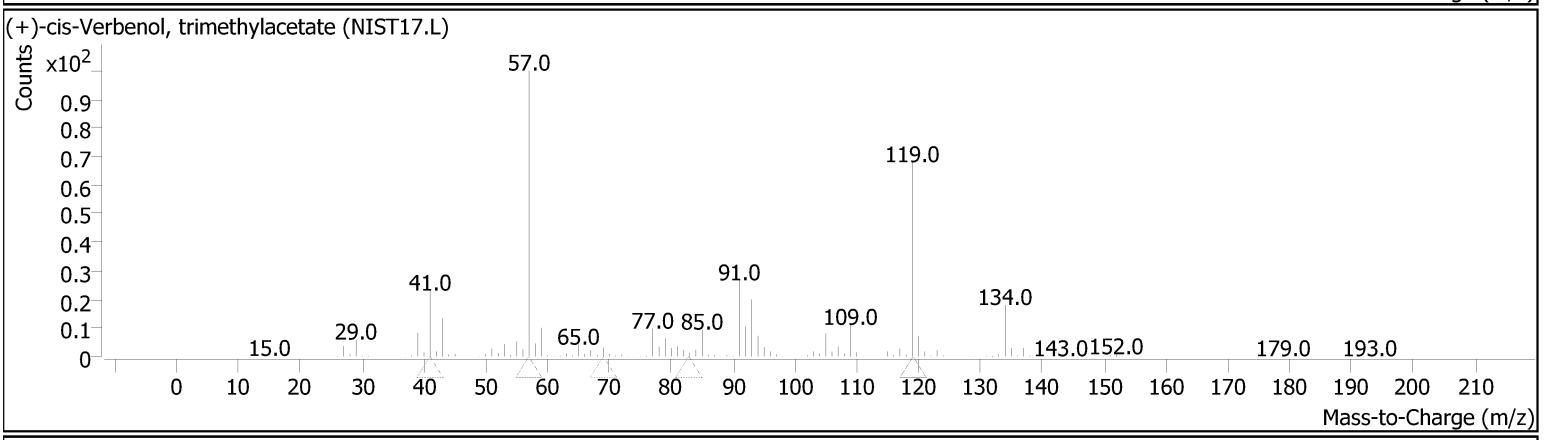



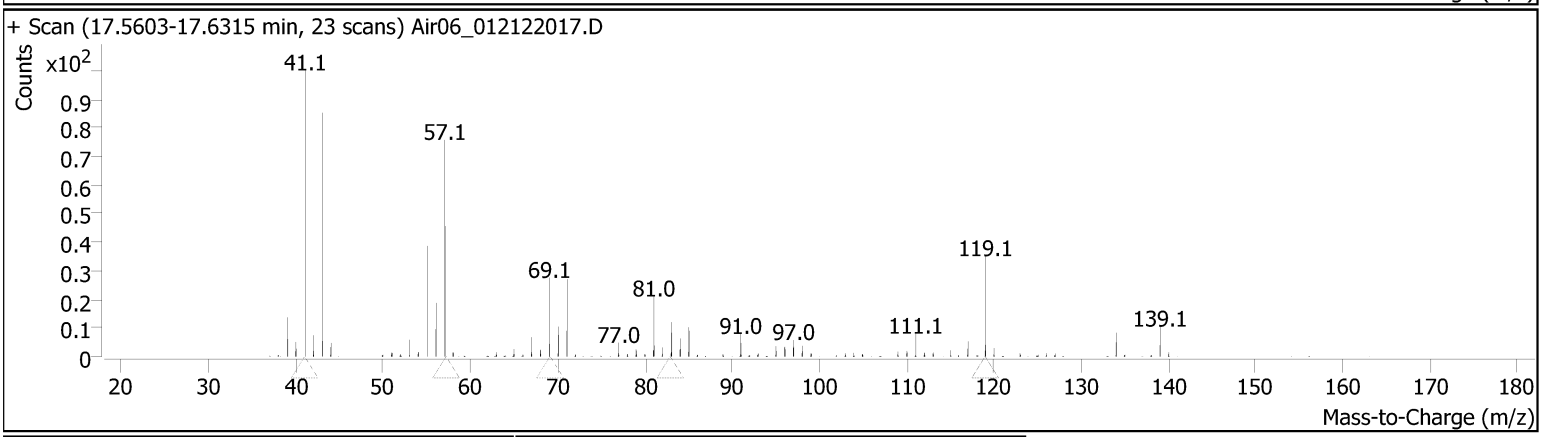



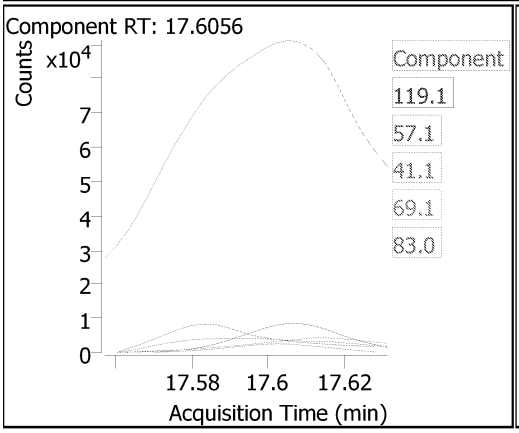



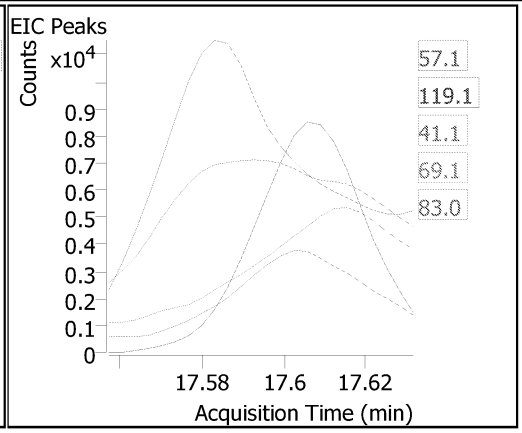
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6056 | (+)-cis-Verbenol, trimethylacetate | 126930.0 | 75.5 | 1000462-96-9 | C15H24O2 | 0.2728 |

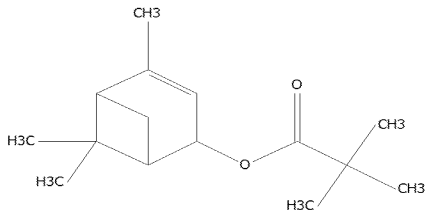


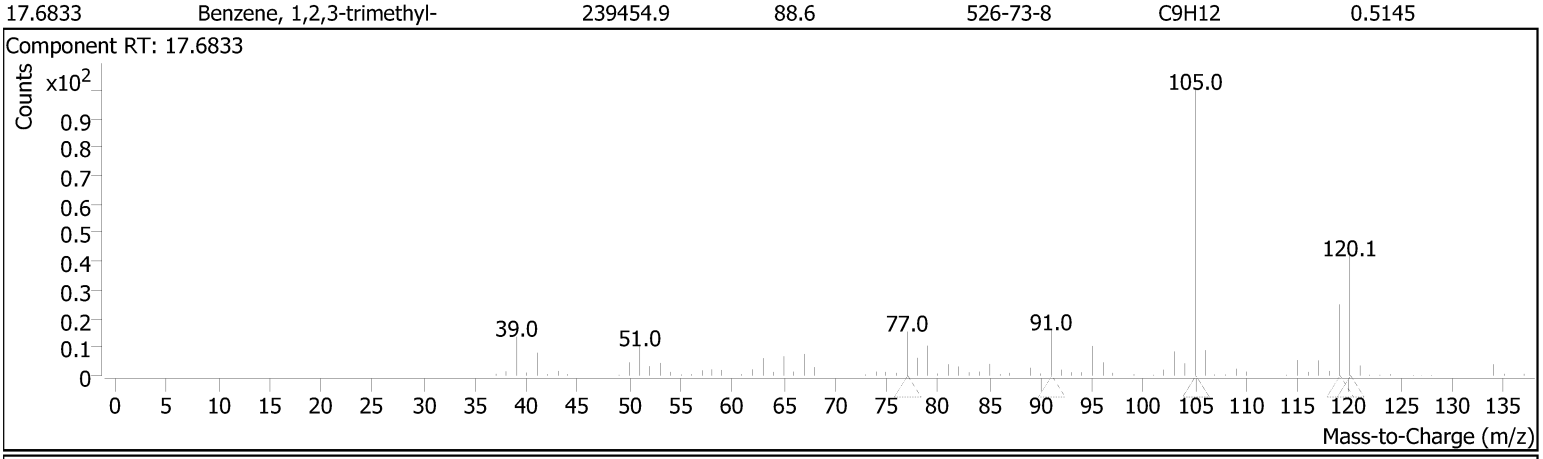



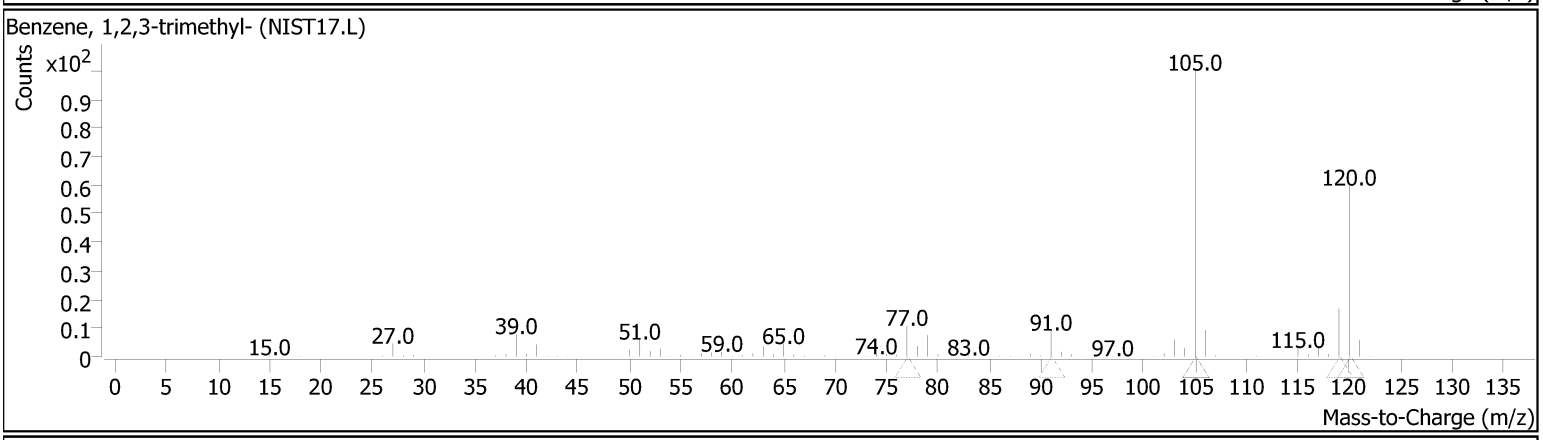



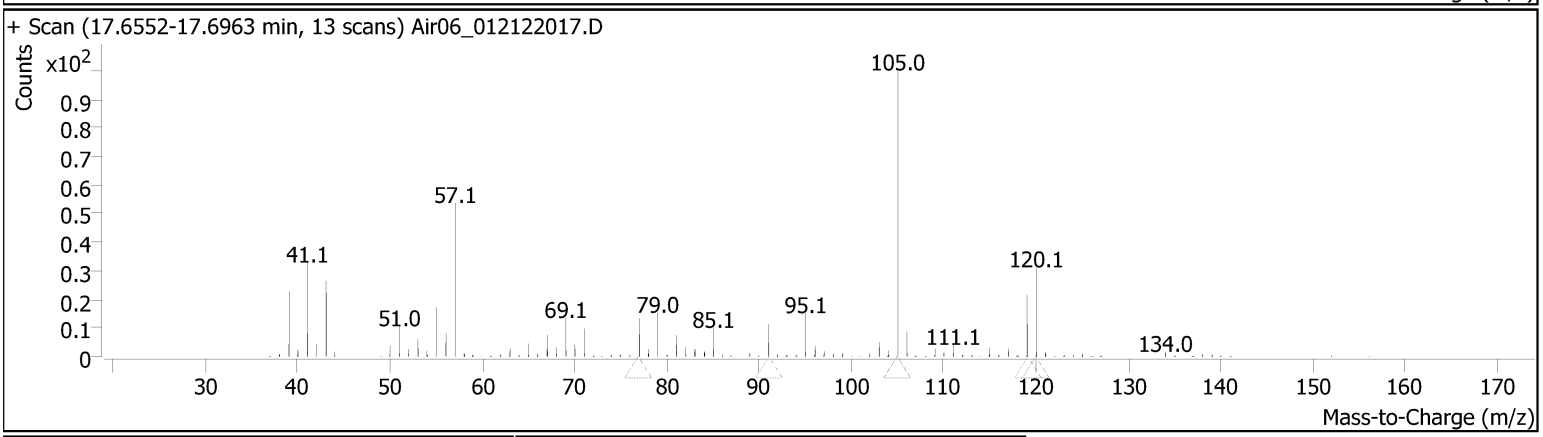



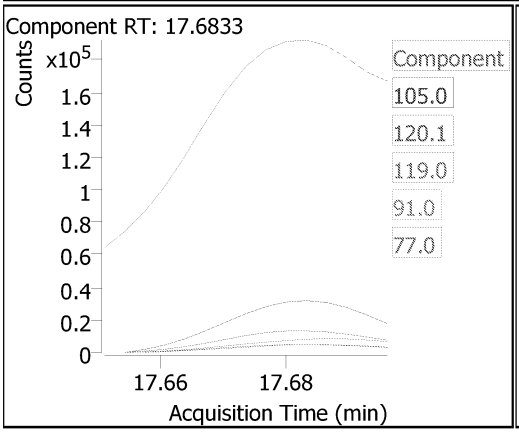



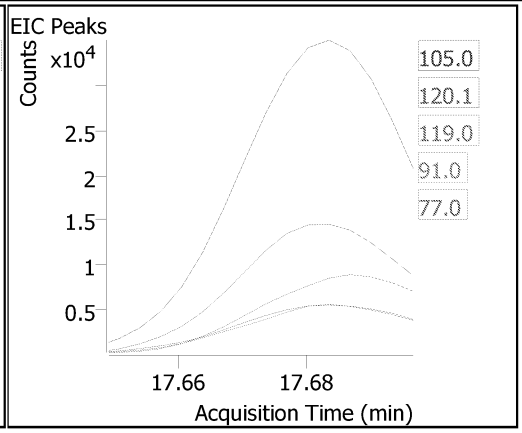
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.6833 | Benzene, 1,2,3-trimethyl- | 239454.9 | 88.6 | 526-73-8 | C9H12 | 0.5145 |

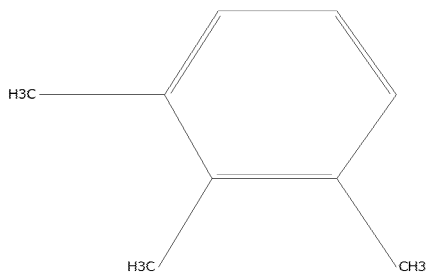


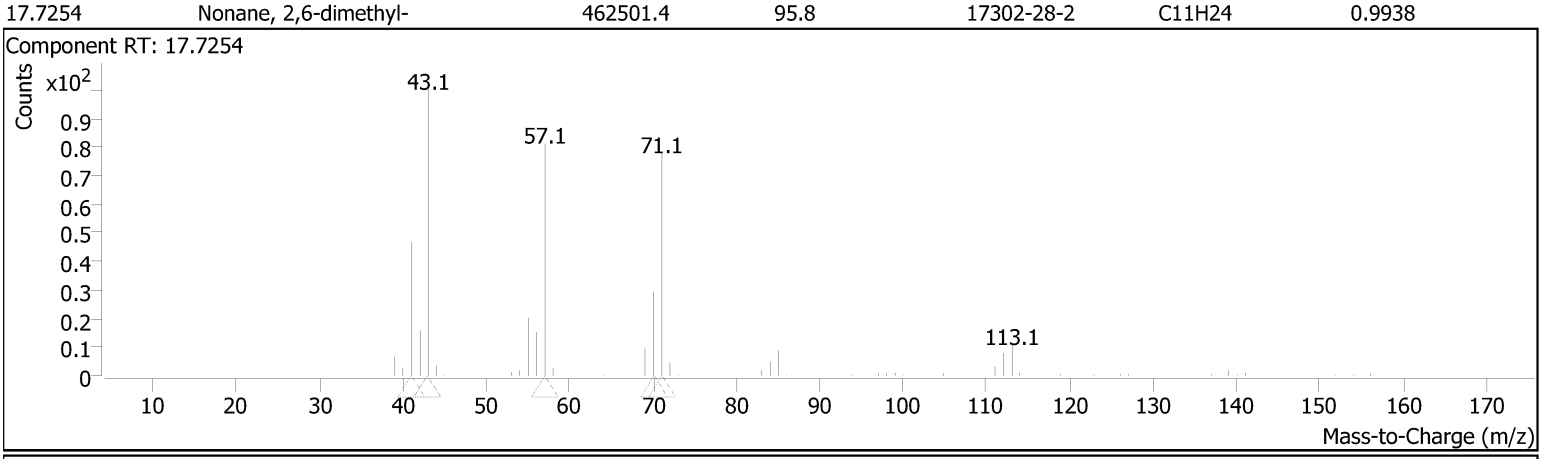



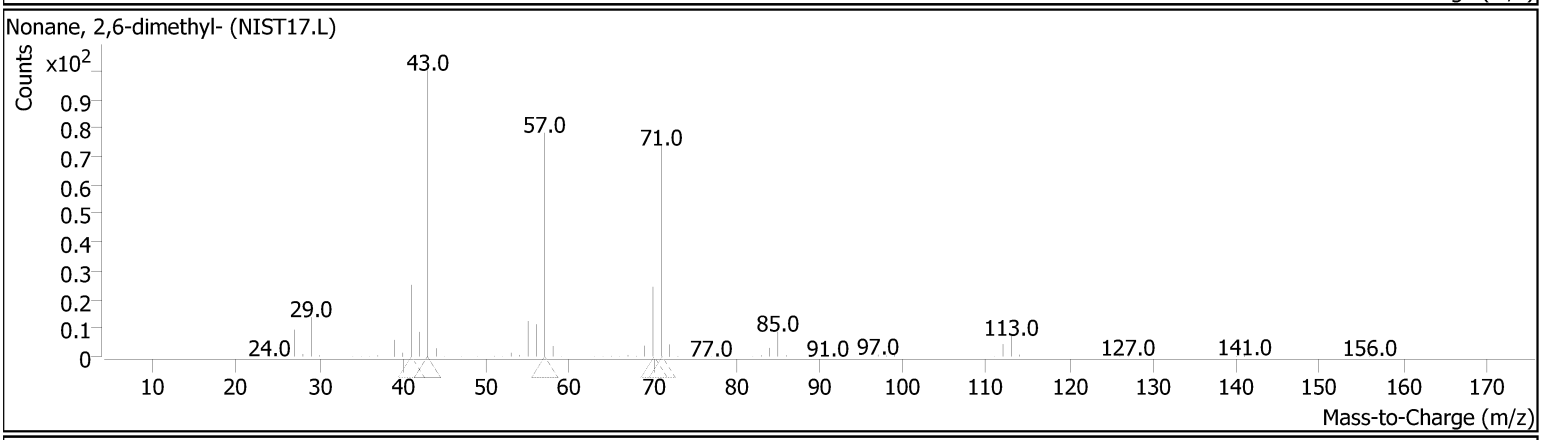



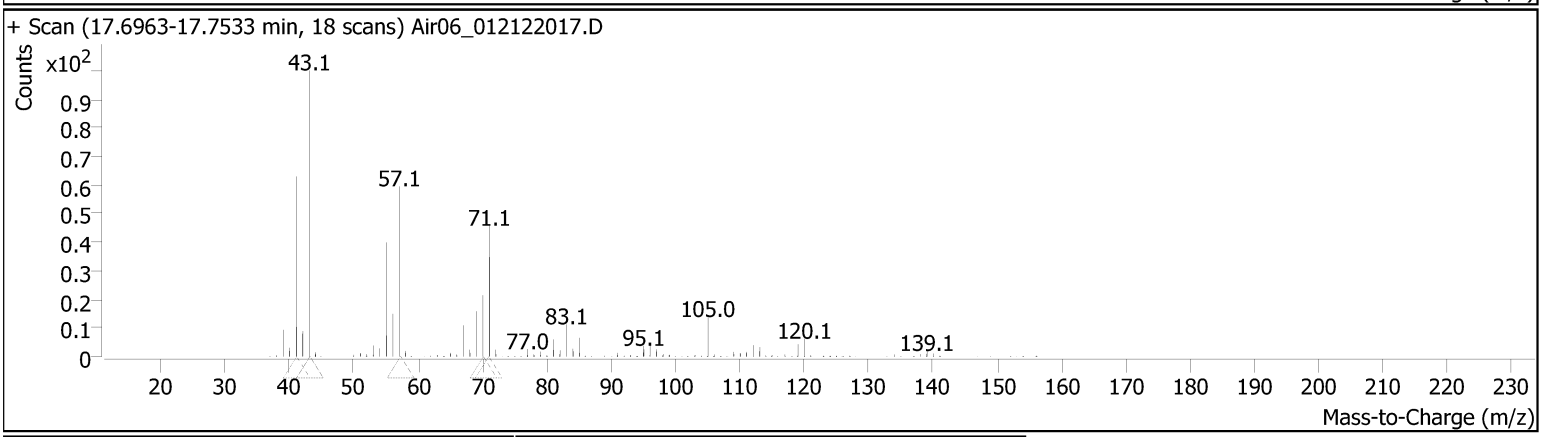



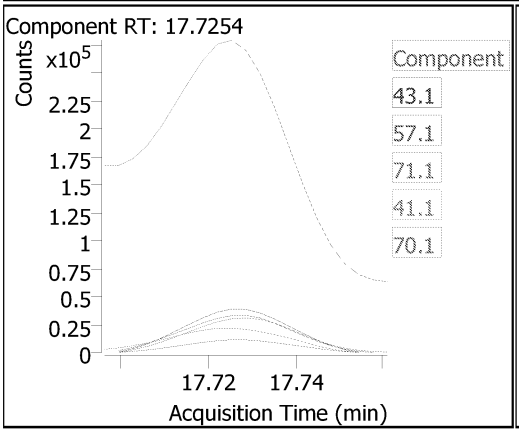



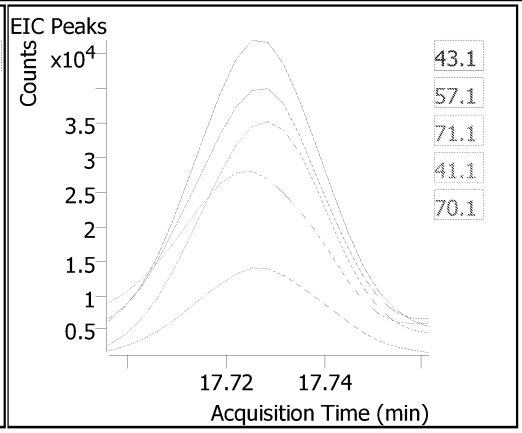
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.7254 | Nonane, 2,6-dimethyl- | 462501.4 | 95.8 | 17302-28-2 | C11H24 | 0.9938 |

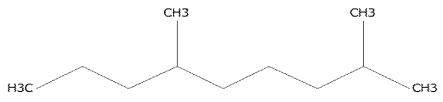


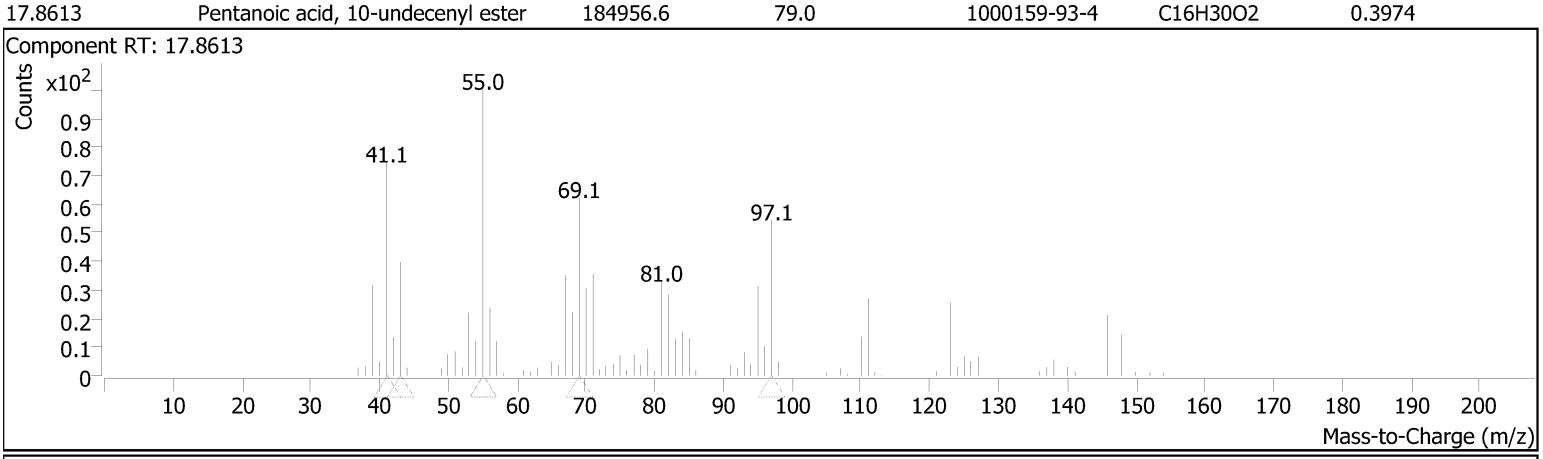



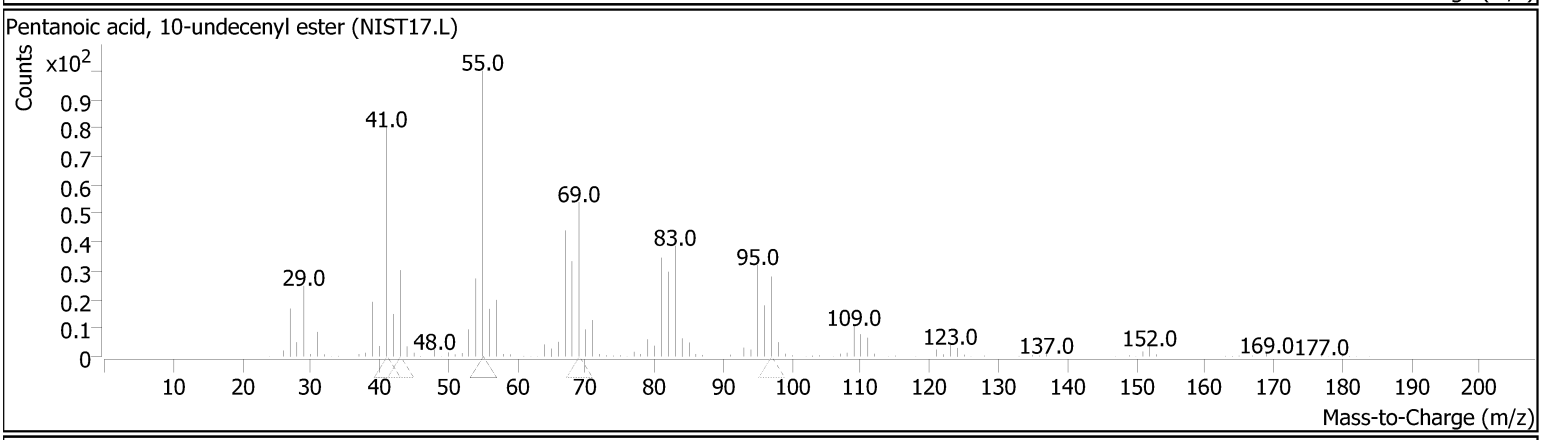



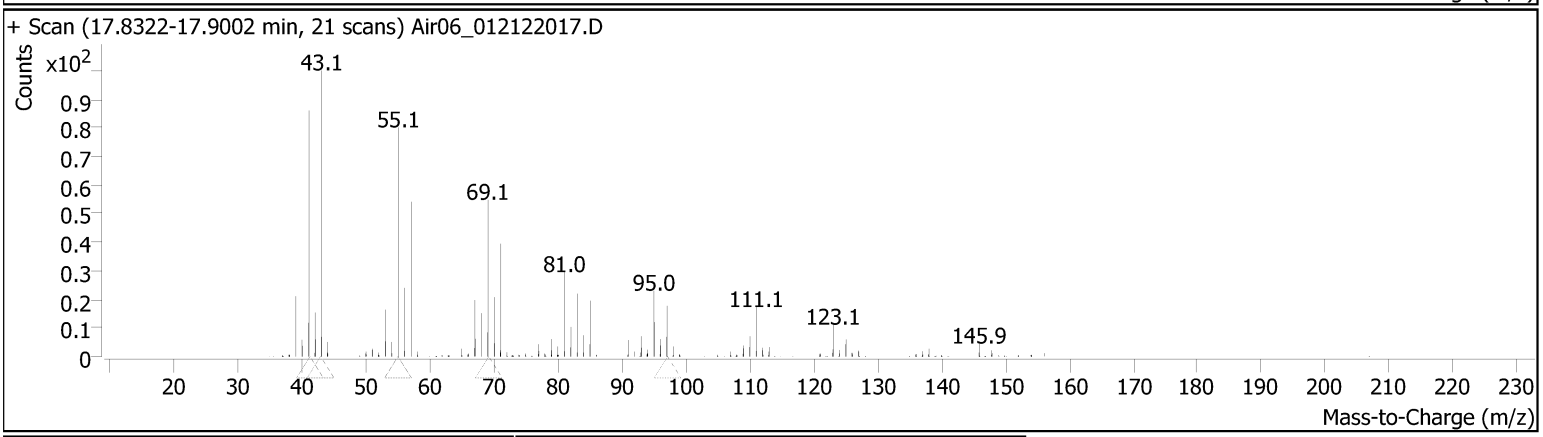



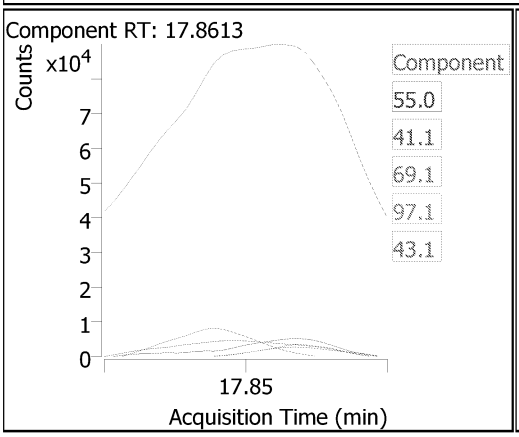



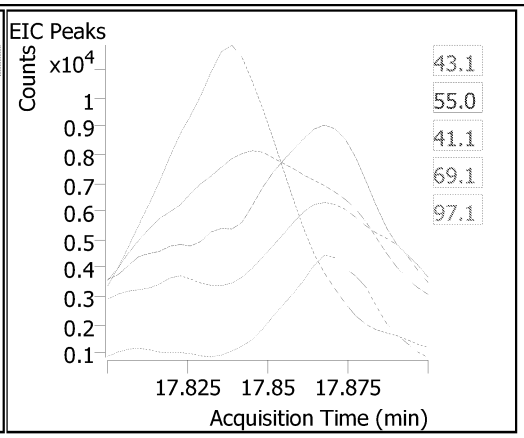
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.8613 | Pentanoic acid, 10-undecenyl ester | 184956.6 | 79.0 | 1000159-93-4 | C16H30O2 | 0.3974 |



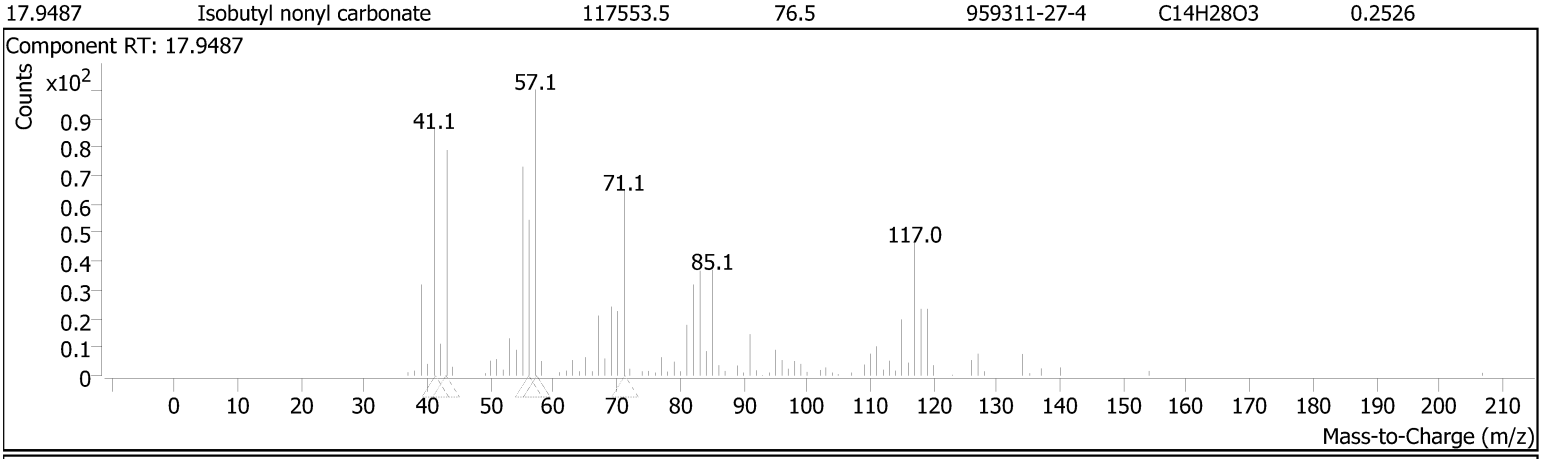



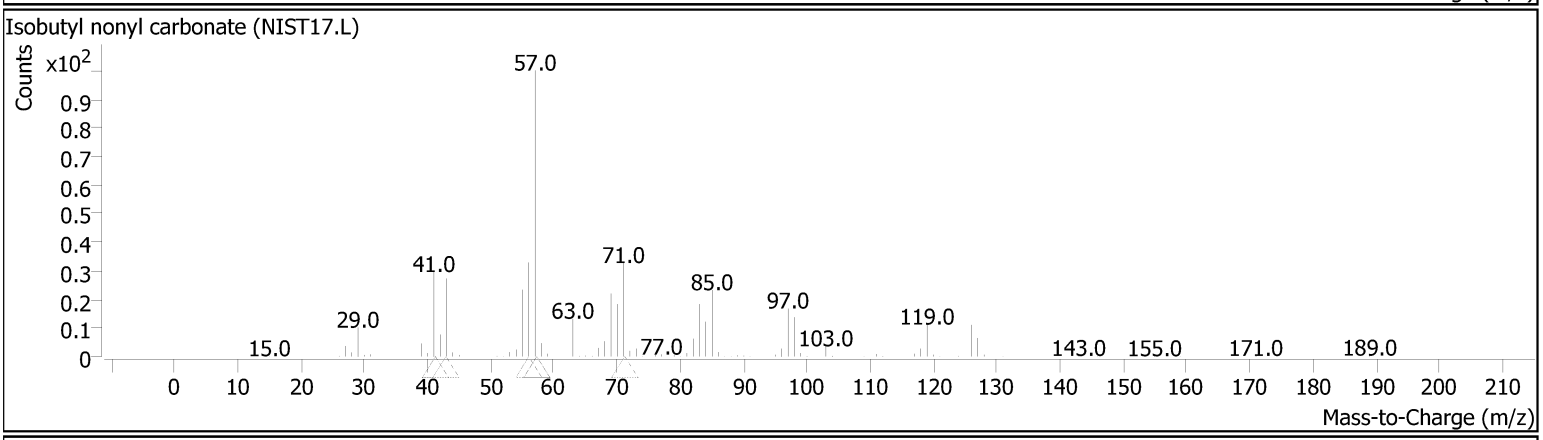



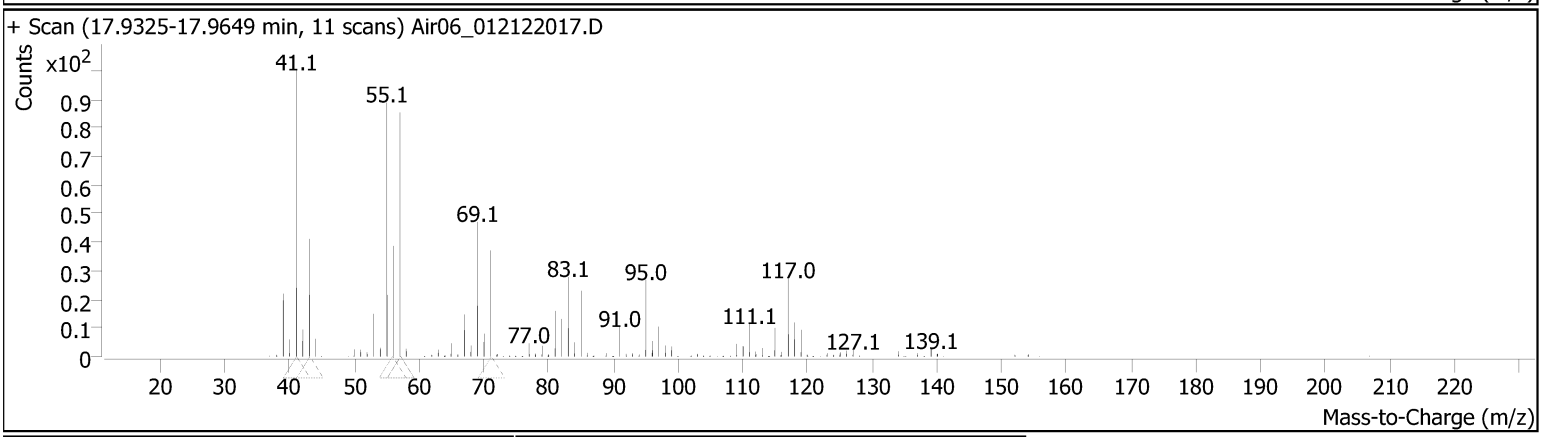



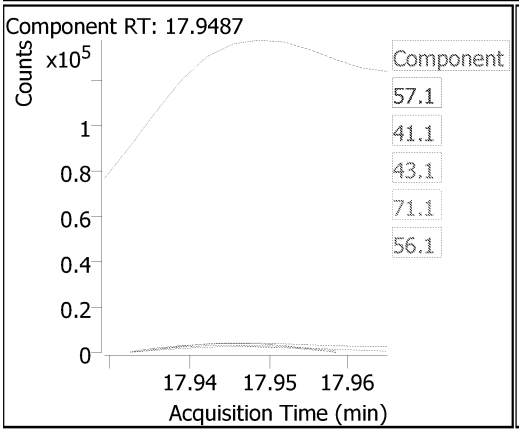


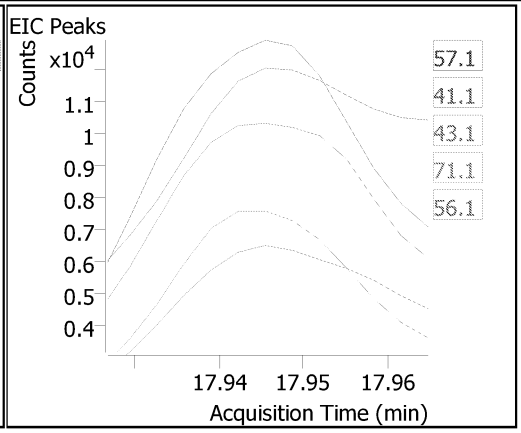

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.9487 | Isobutyl nonyl carbonate | 117553.5 | 76.5 | 959311-27-4 | C14H28O3 | 0.2526 |

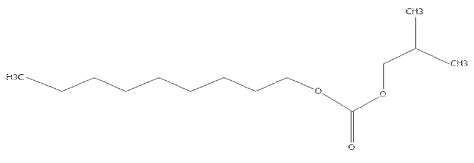


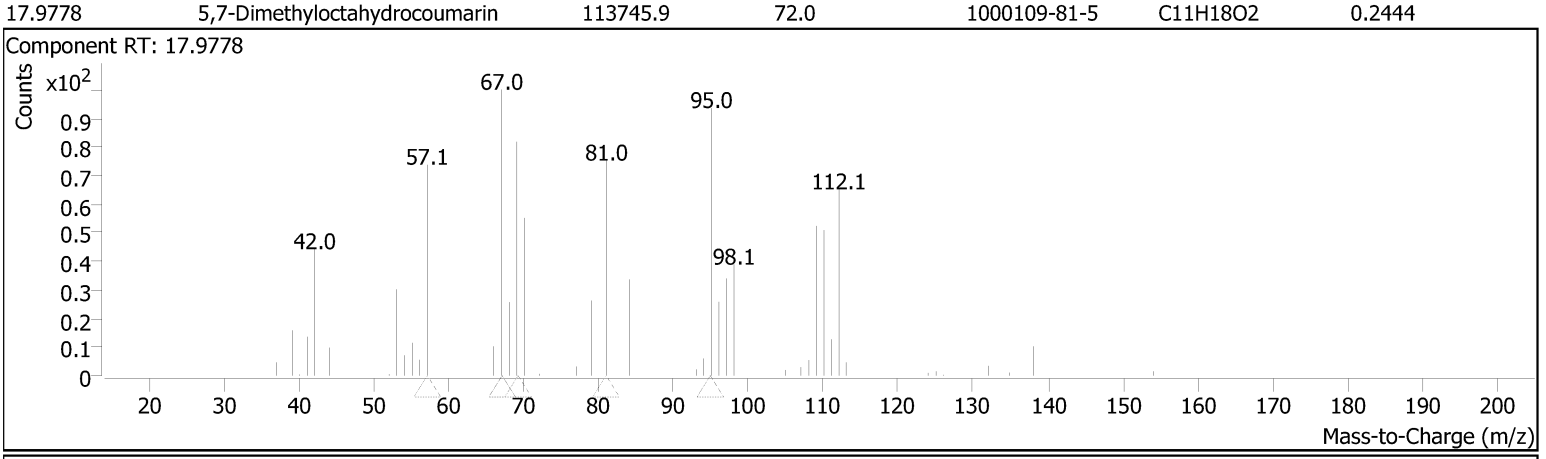



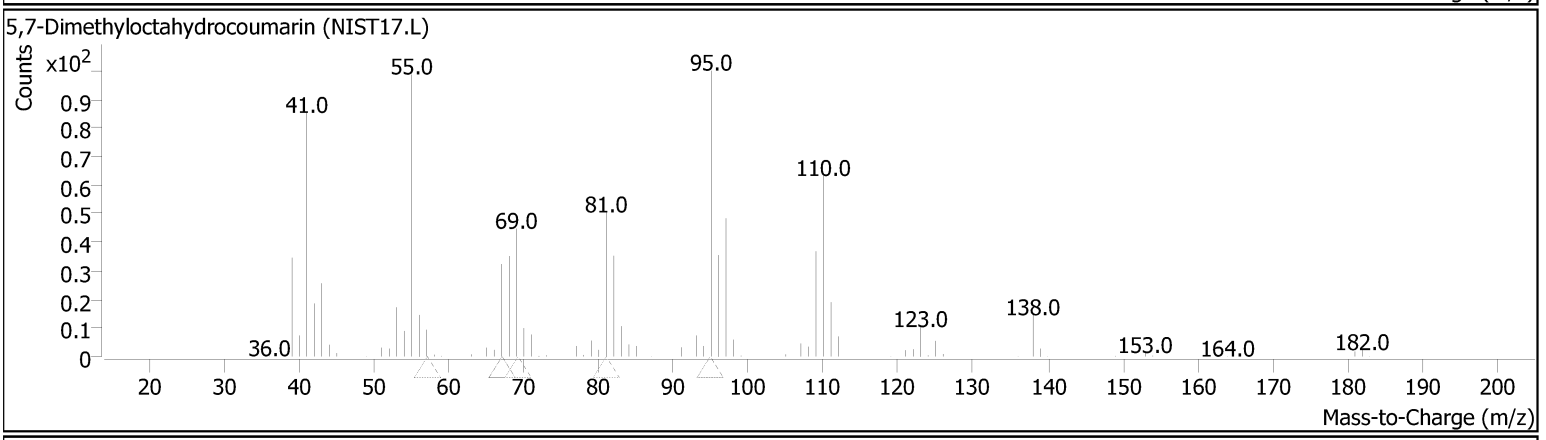



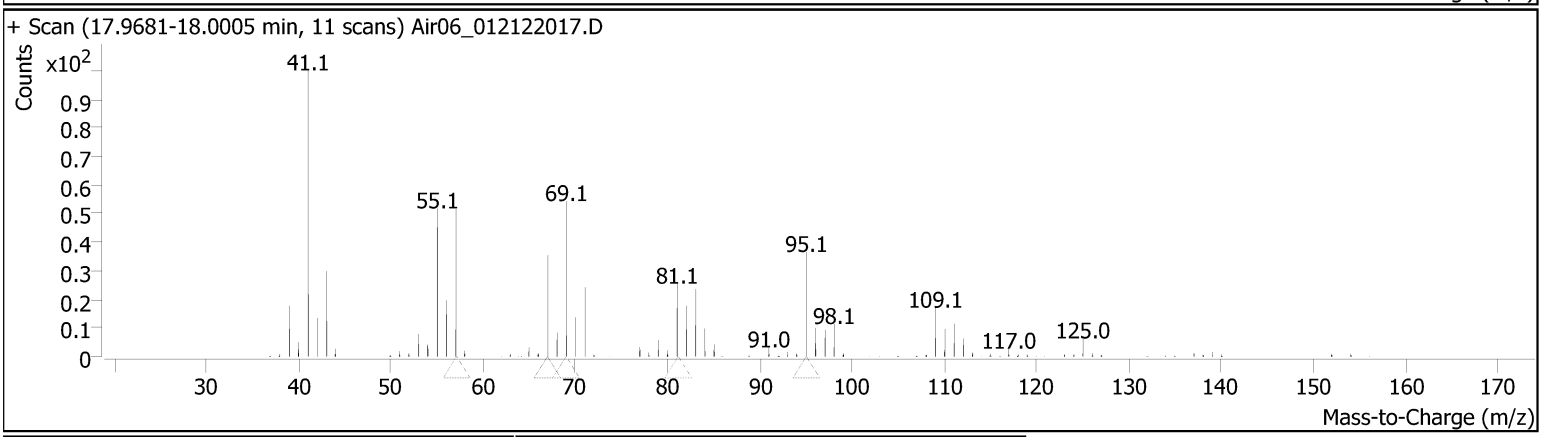



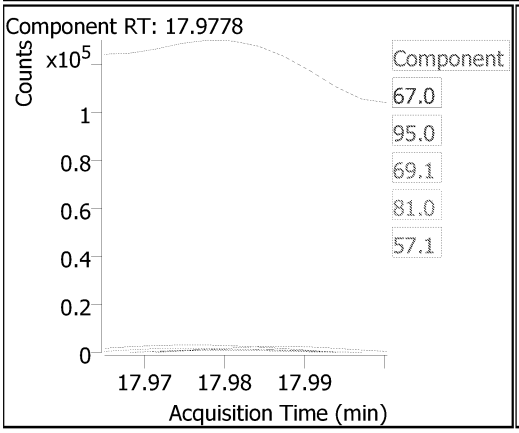



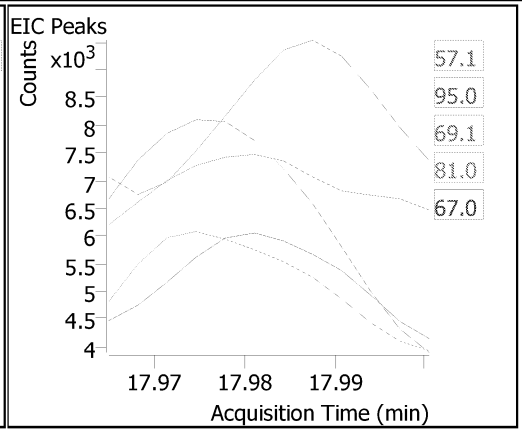
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.9778 | 5,7-Dimethyloctahydrocoumarin | 113745.9 | 72.0 | 1000109-81-5 | C11H18O2 | 0.2444 |

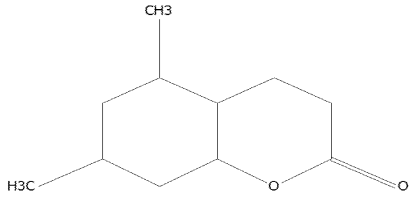


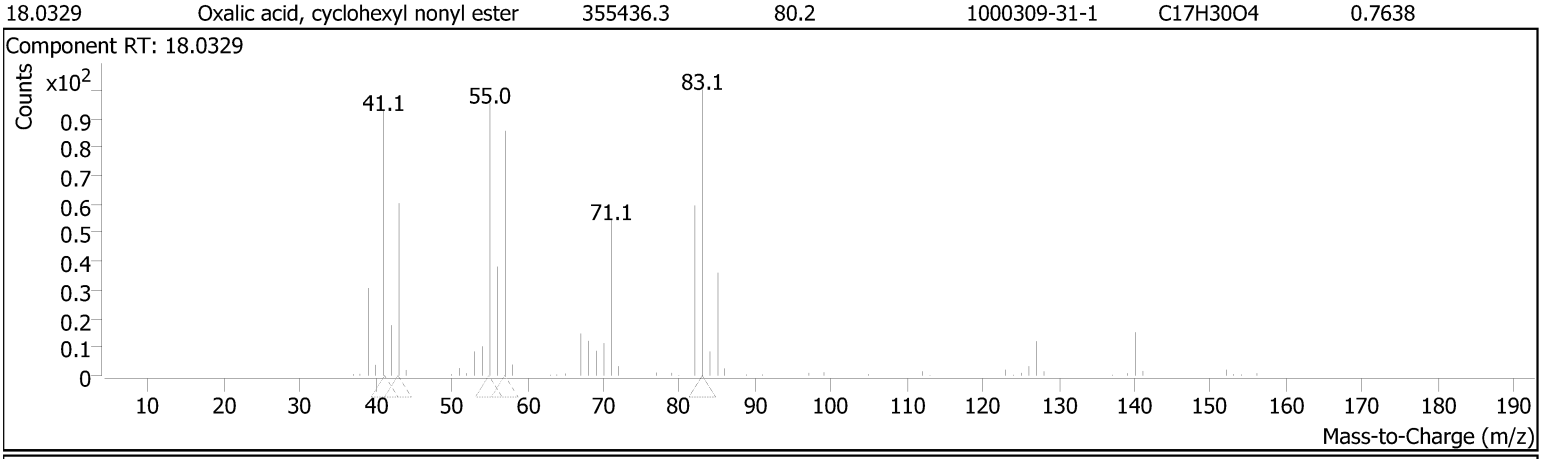



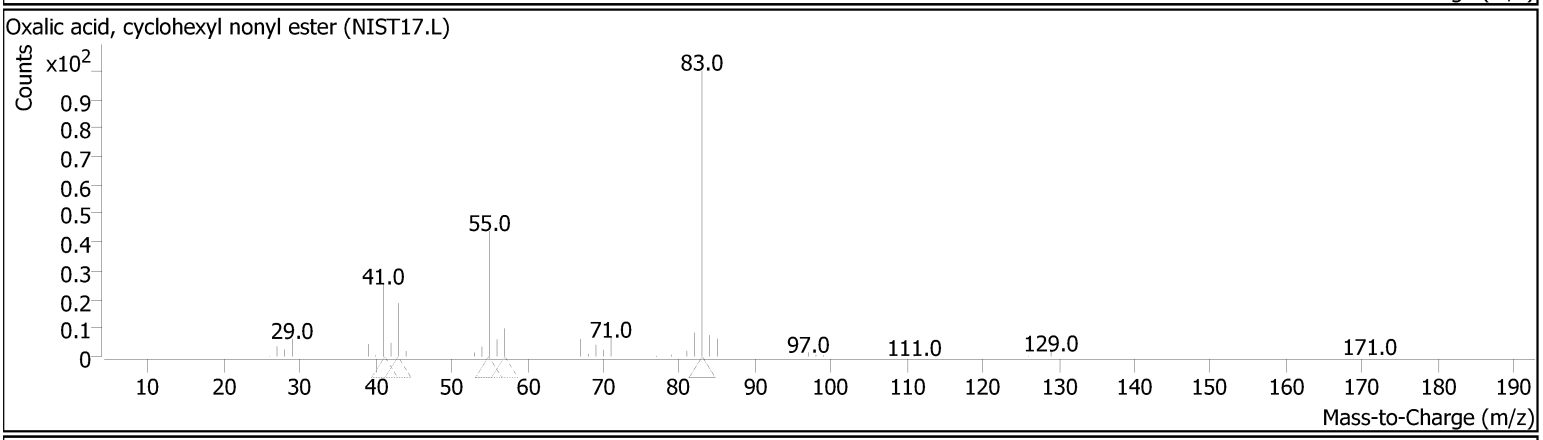



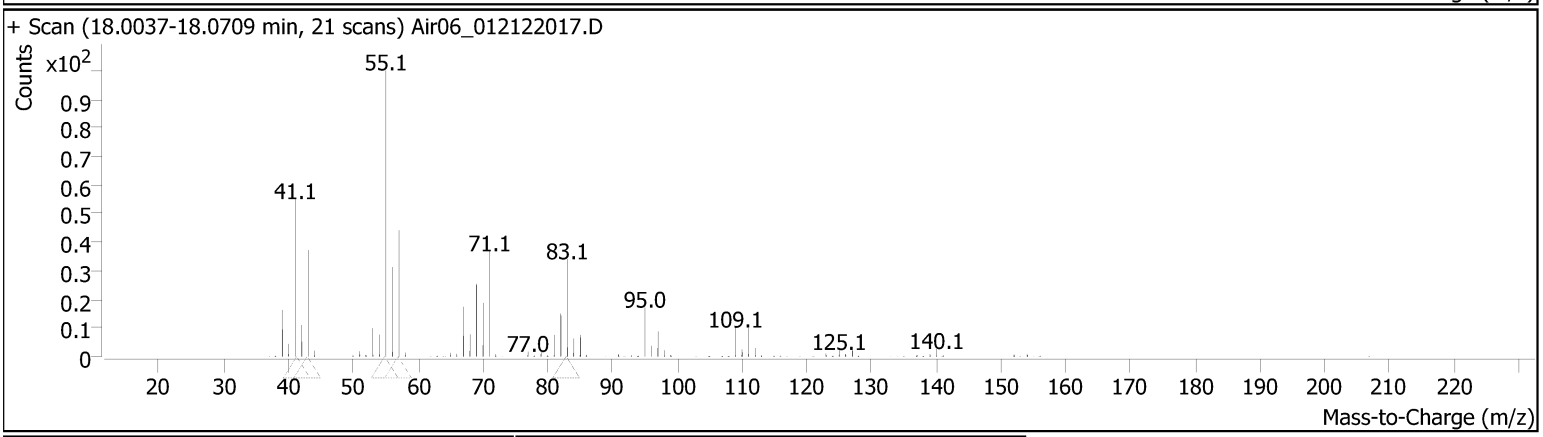



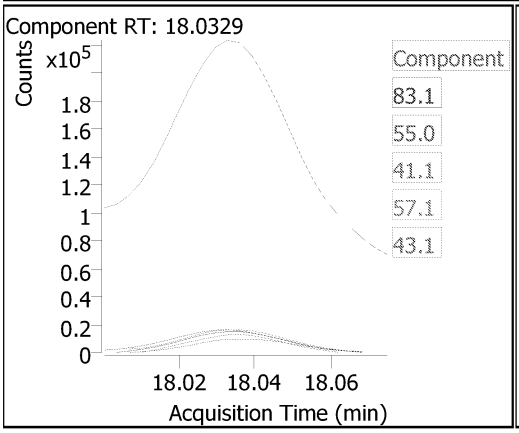



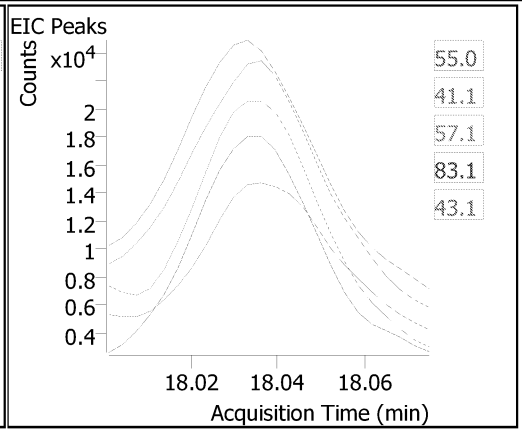
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.0329 | Oxalic acid, cyclohexyl nonyl ester | 355436.3 | 80.2 | 1000309-31-1 | C17H30O4 | 0.7638 |

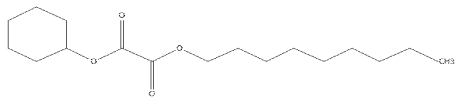


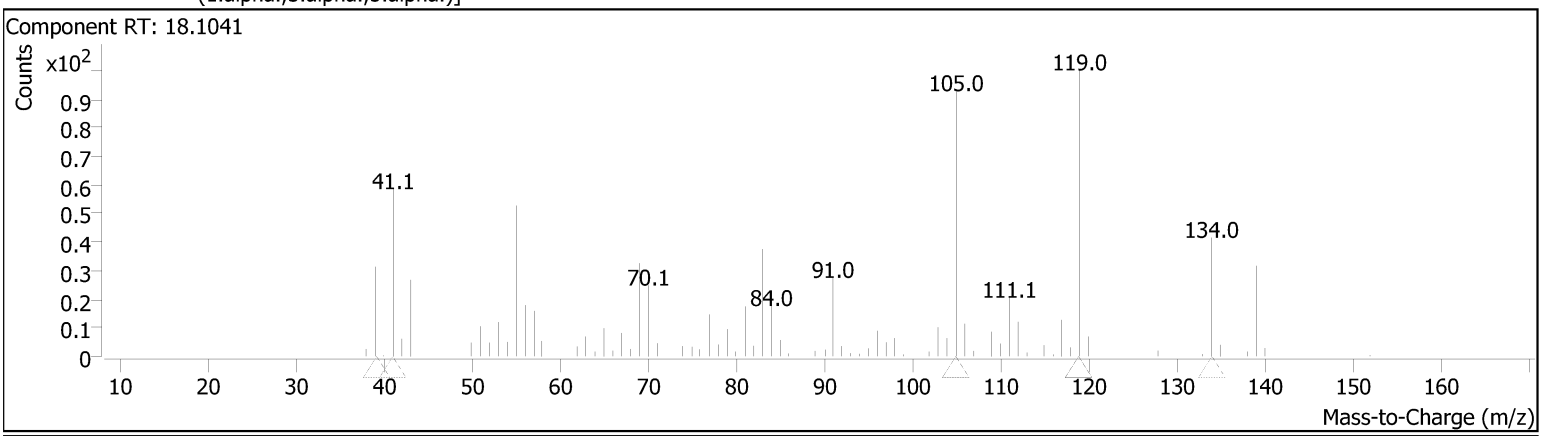



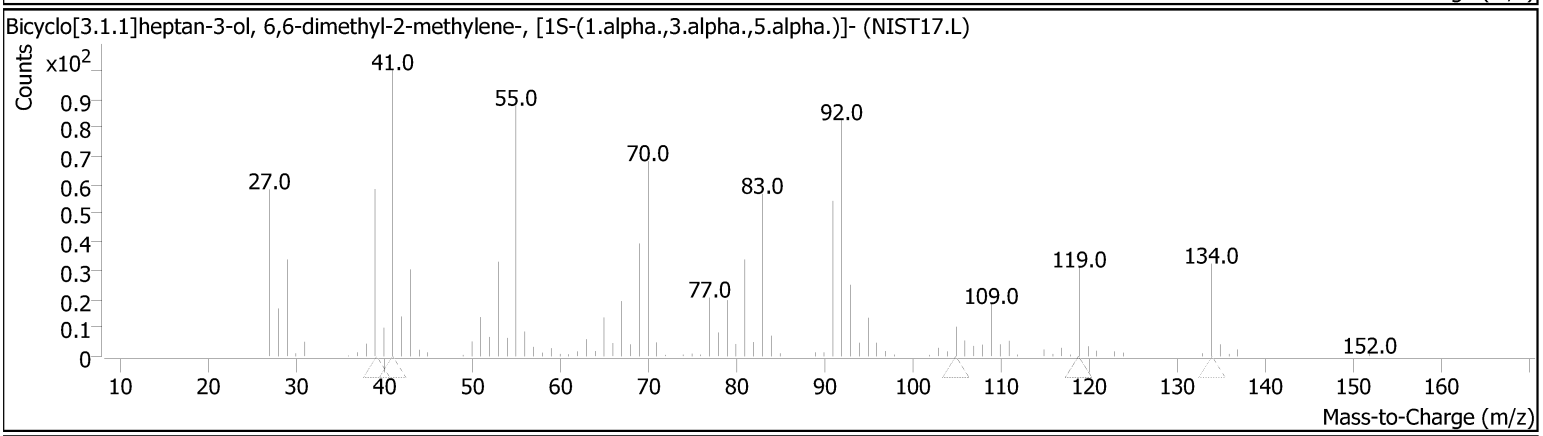



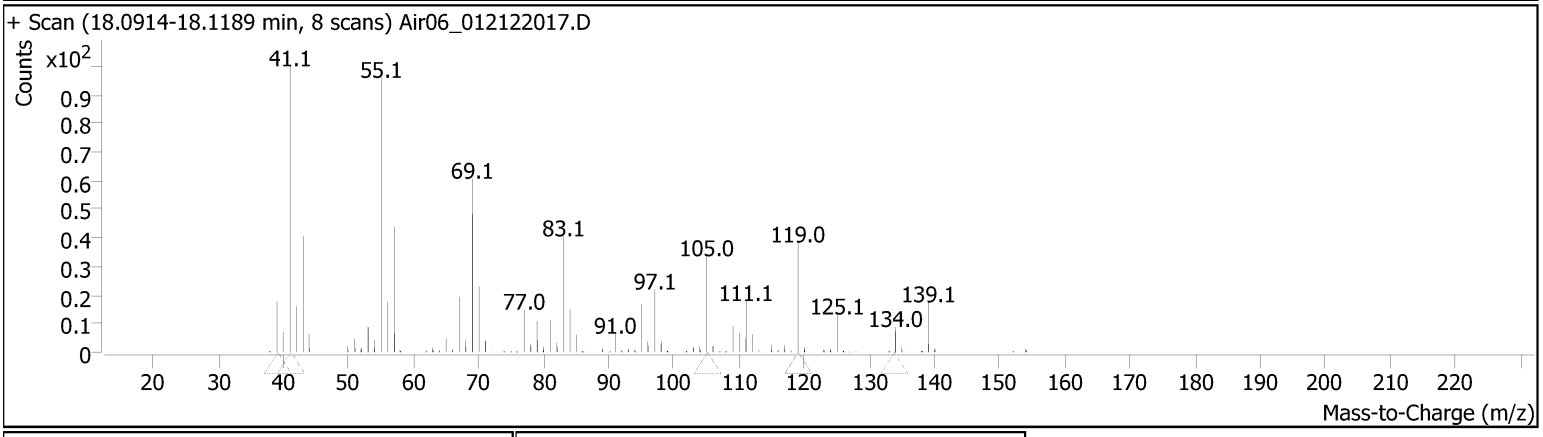
# Library Search Results - NonTarget Hits with Details

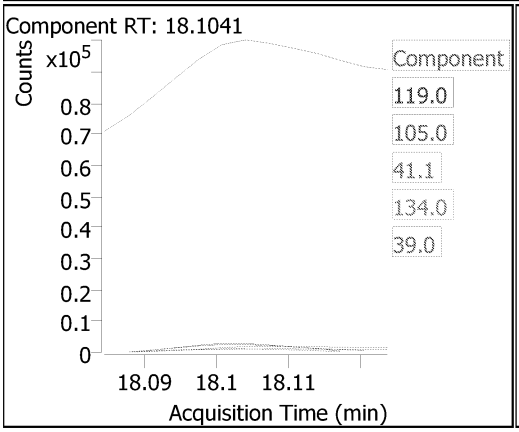
Agilent Technologies

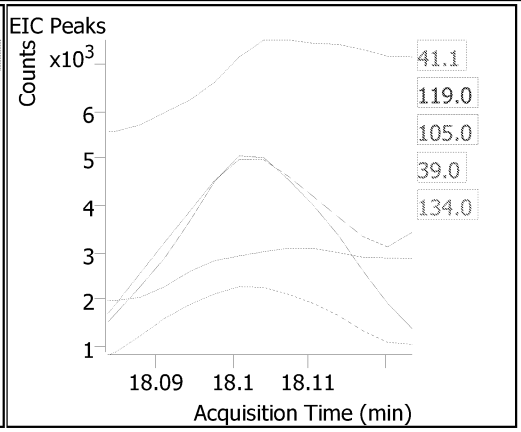
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1041 | Bicyclo[3.1.1]heptan-3-ol, 6,6-dimethyl-2-methylene-, [1S-(1.alpha.,3.alpha.,5.alpha.)]- | 48684.4 | 73.5 | 547-61-5 | C10H16O | 0.1046 |

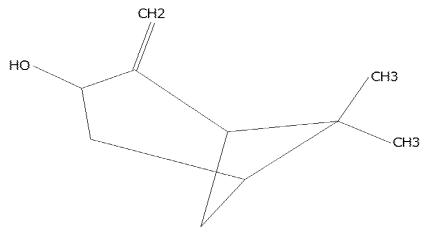


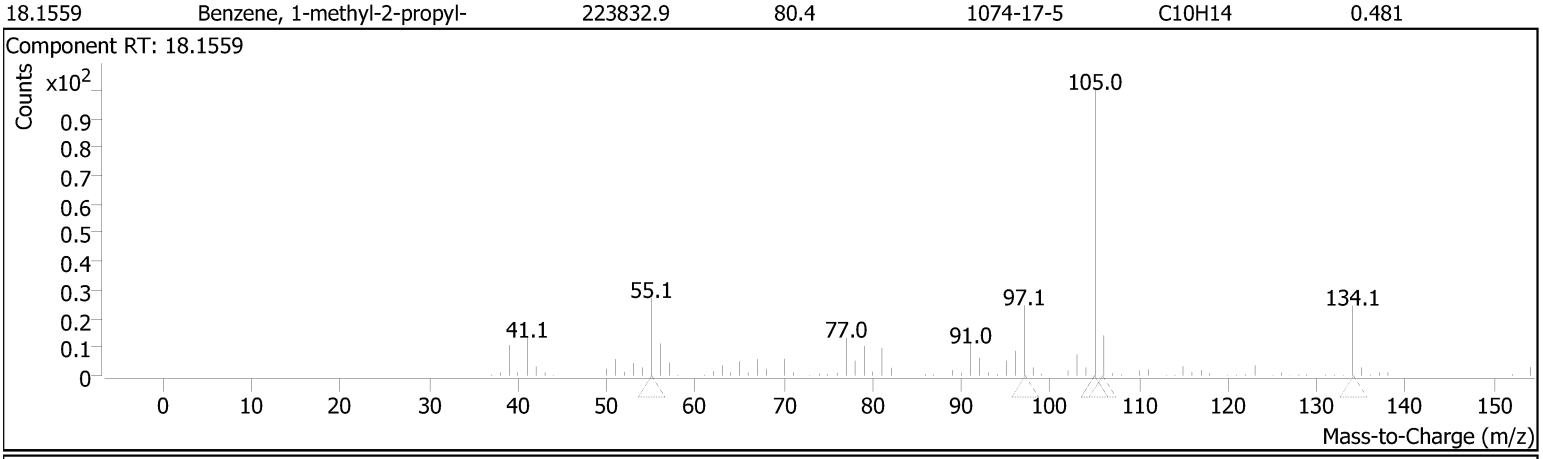



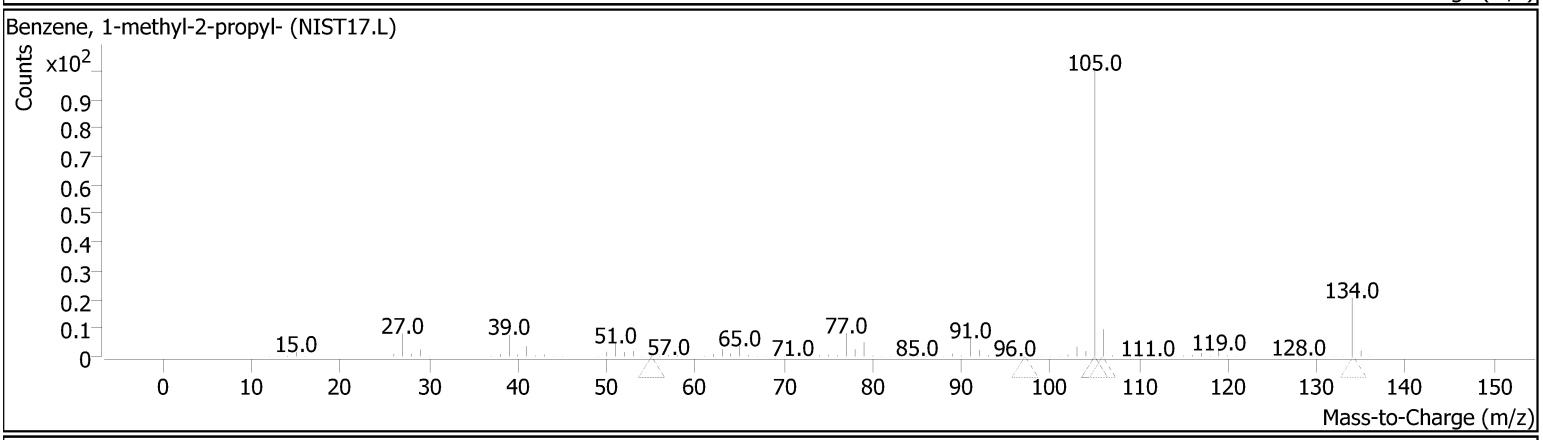



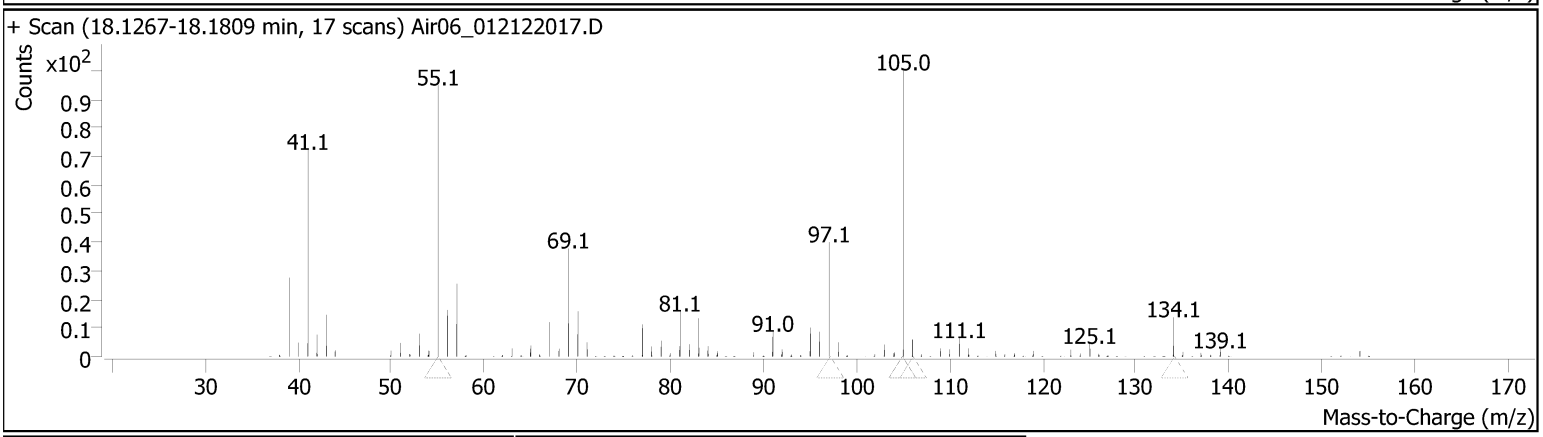



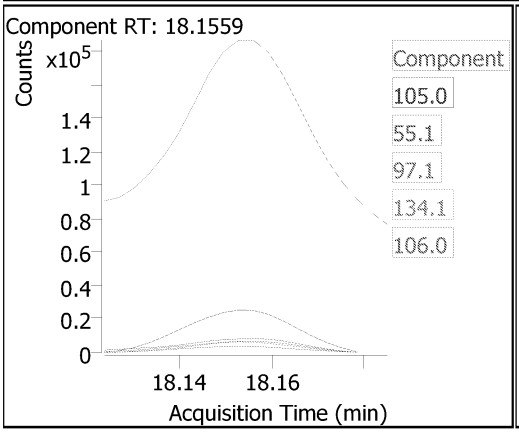



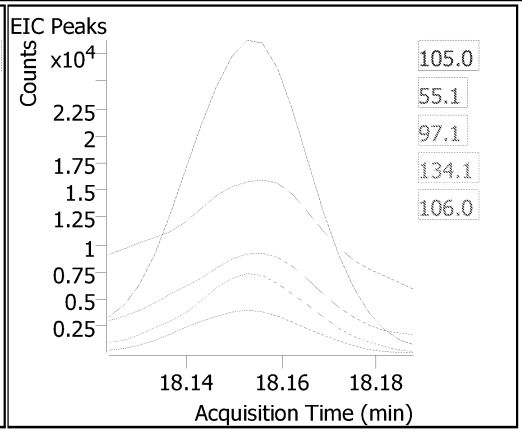
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.1559 | Benzene, 1-methyl-2-propyl- | 223832.9 | 80.4 | 1074-17-5 | C10H14 | 0.481 |

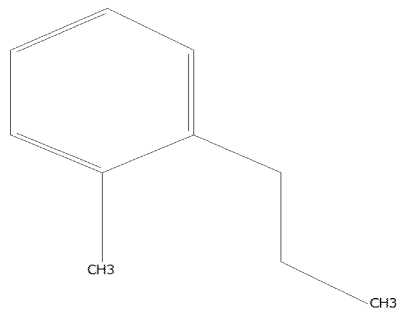


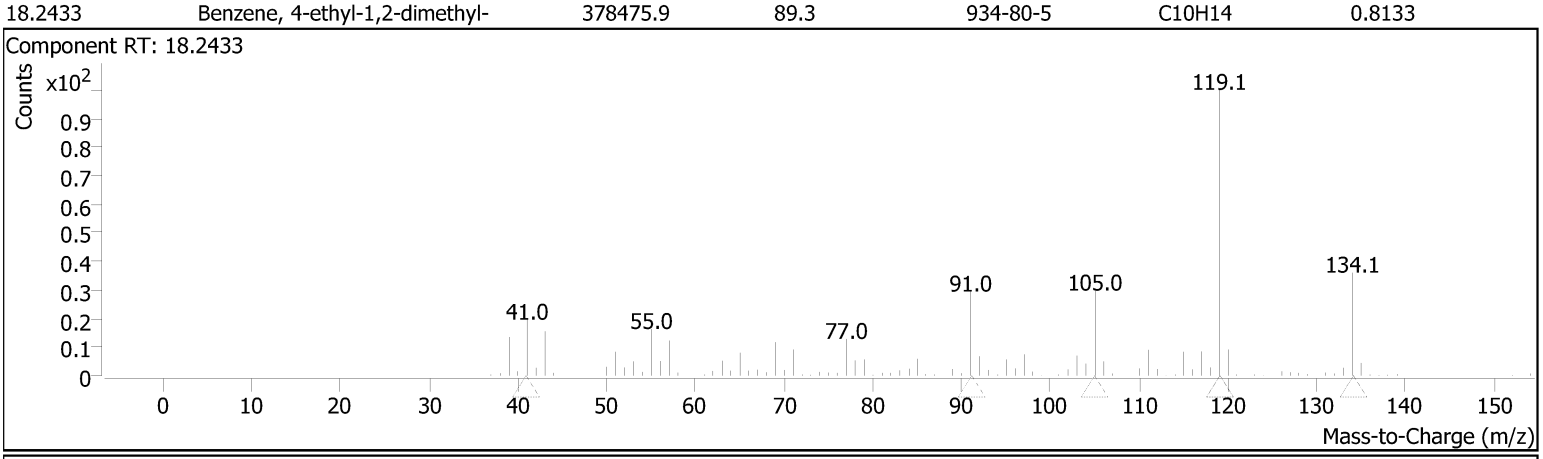



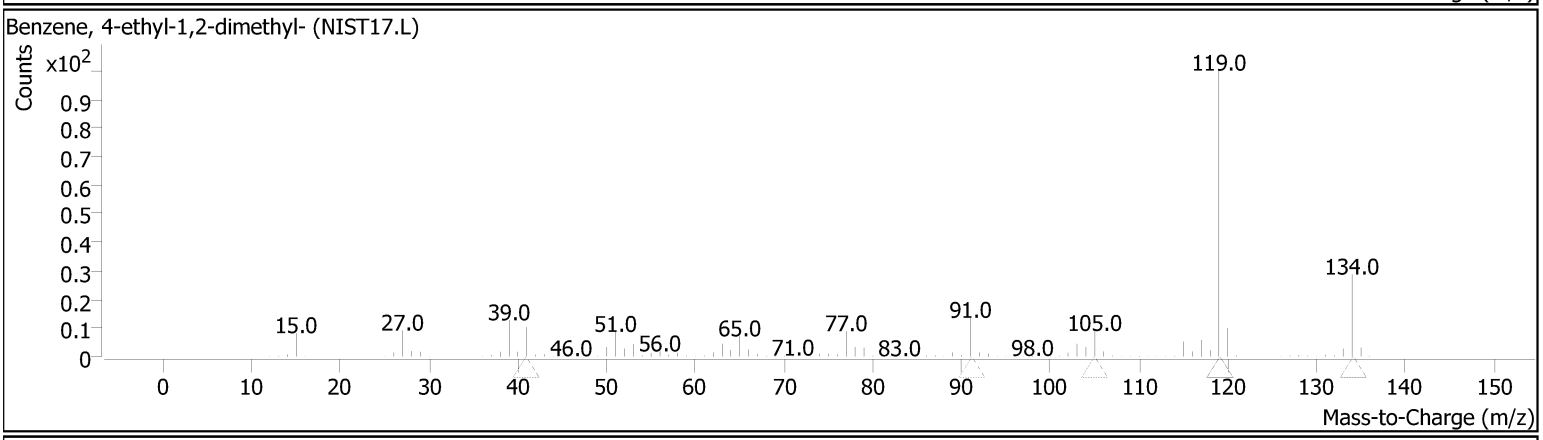



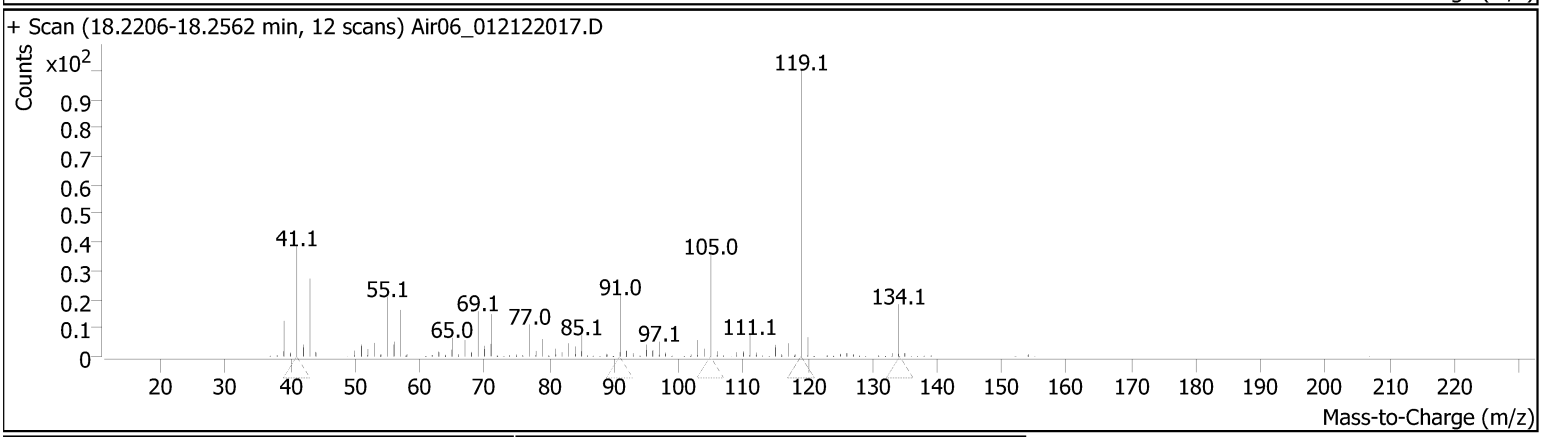



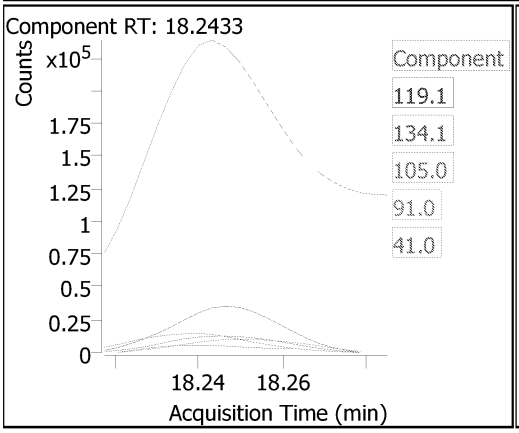



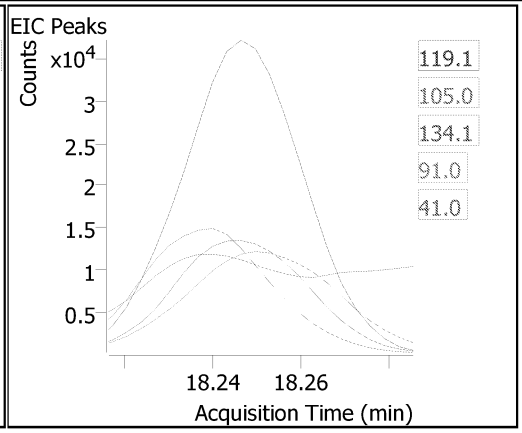
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.2433 | Benzene, 4-ethyl-1,2-dimethyl- | 378475.9 | 89.3 | 934-80-5 | C10H14 | 0.8133 |

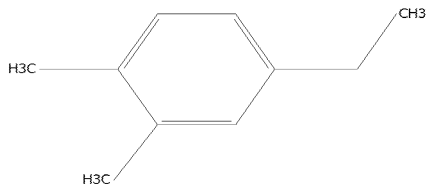


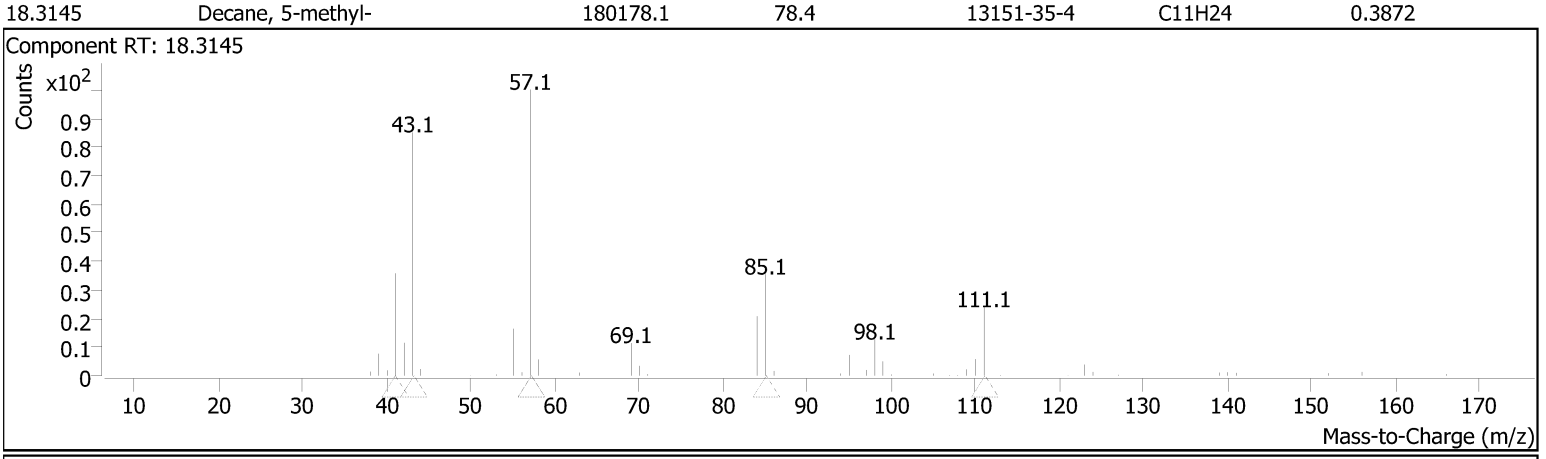



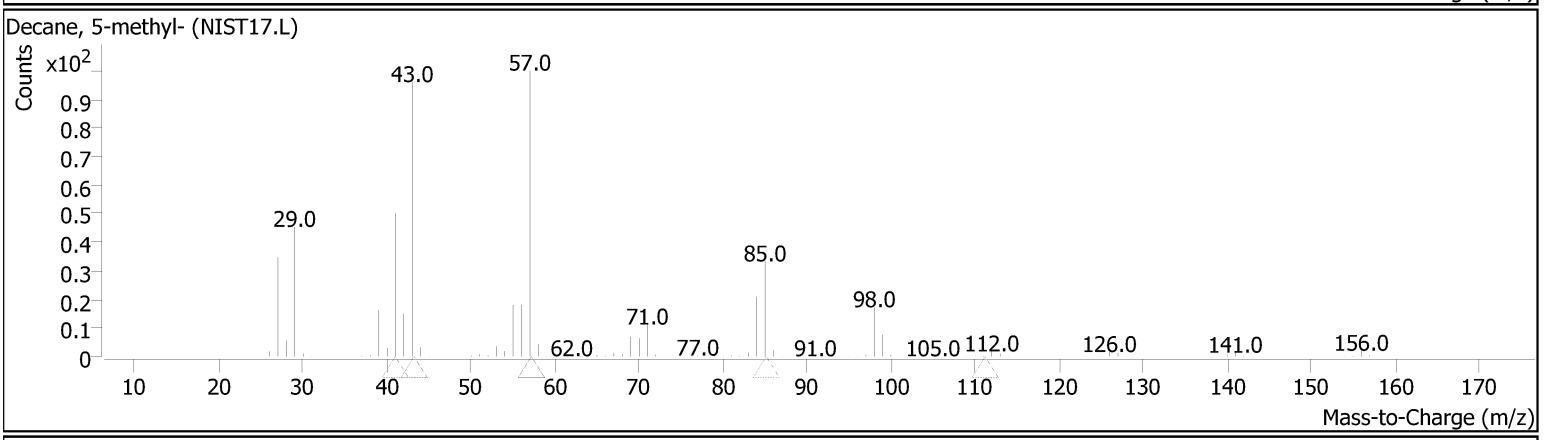



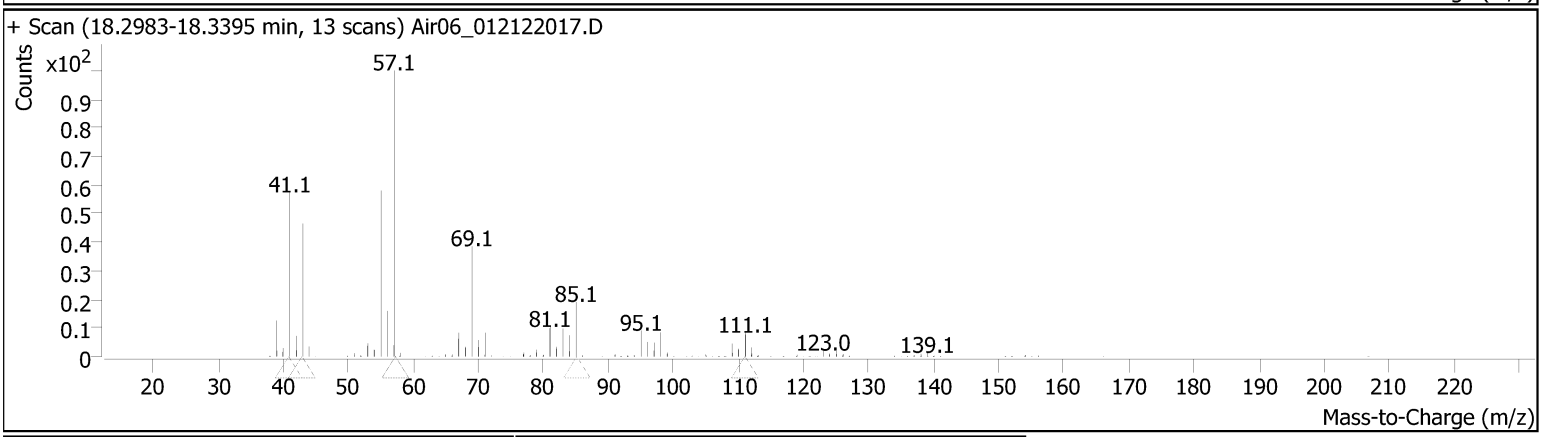



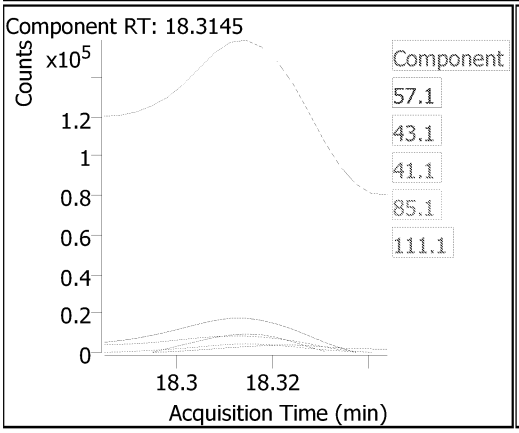



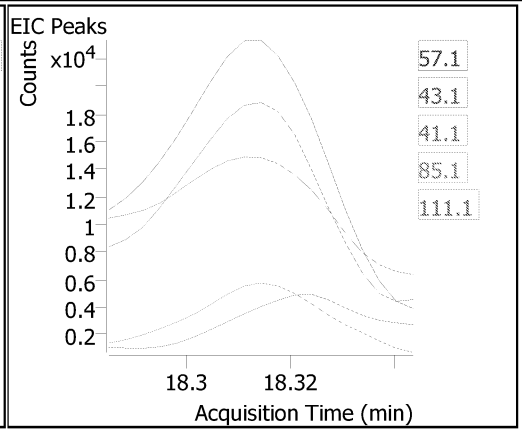
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3145 | Decane, 5-methyl- | 180178.1 | 78.4 | 13151-35-4 | C11H24 | 0.3872 |

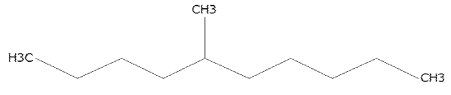


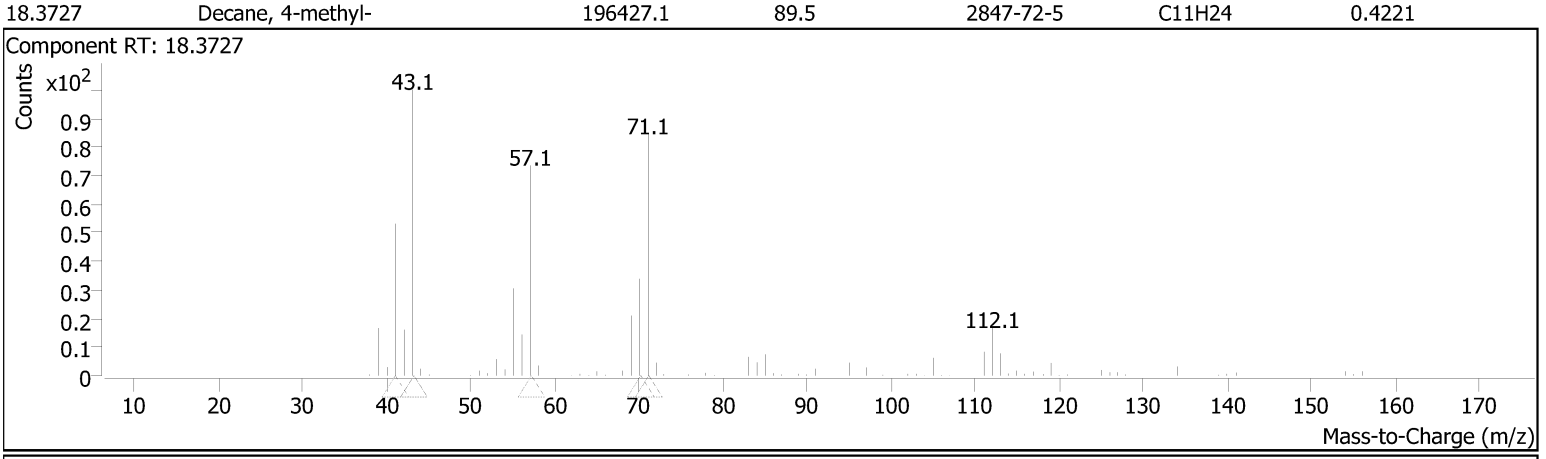



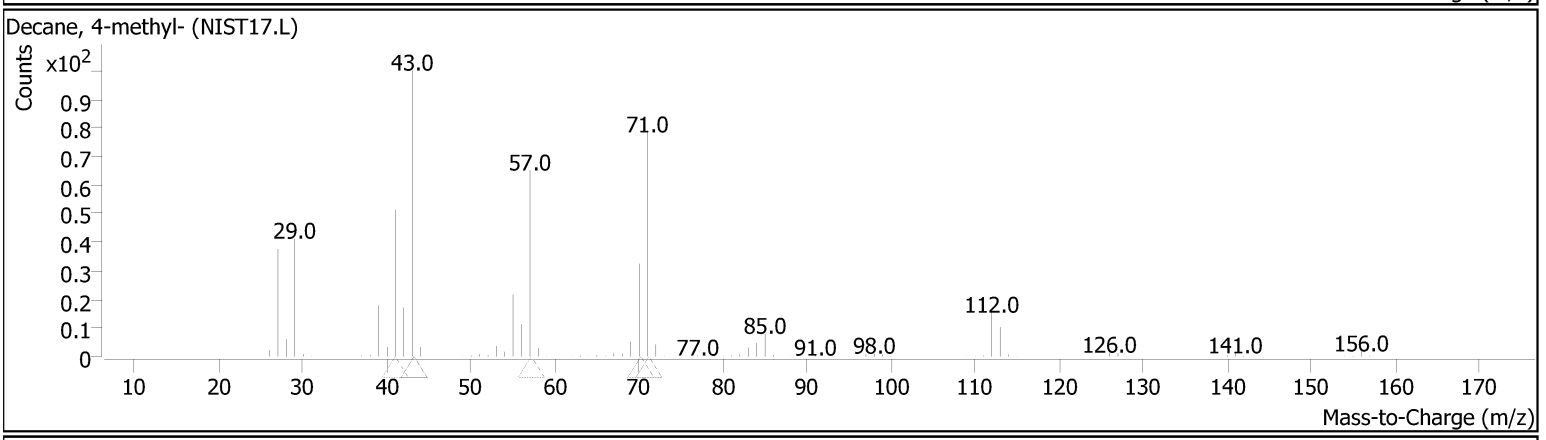



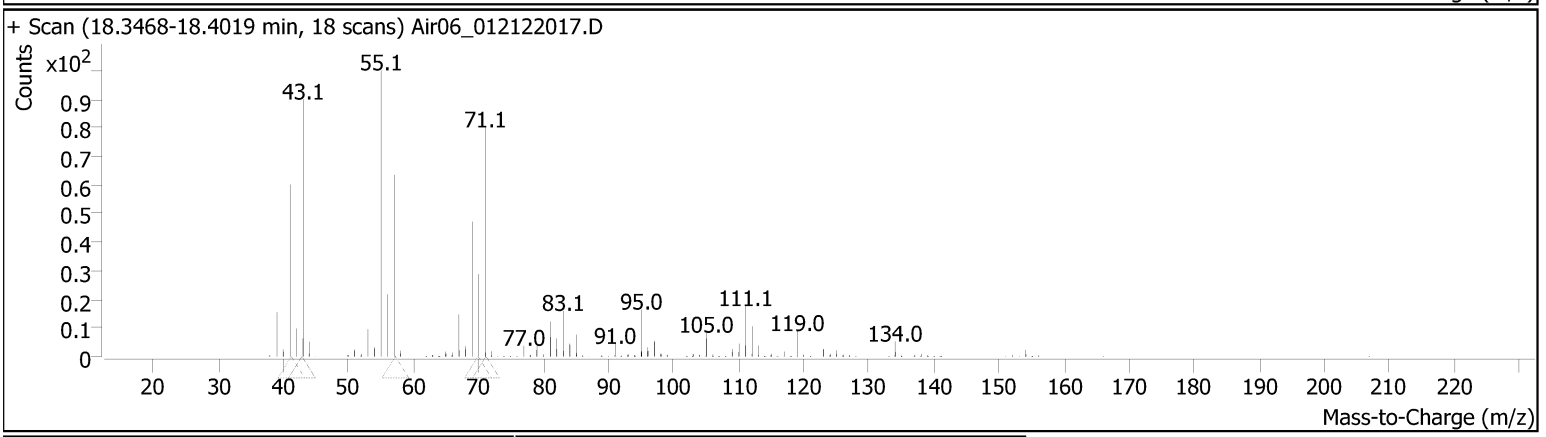



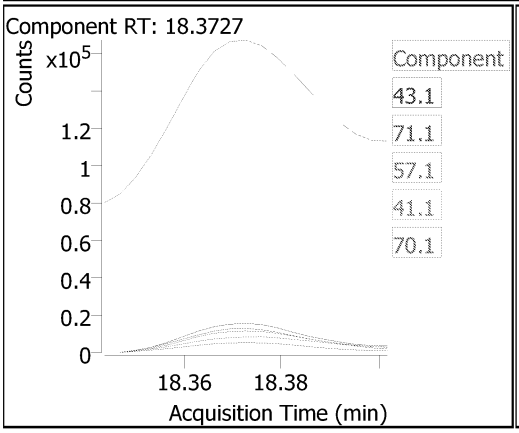



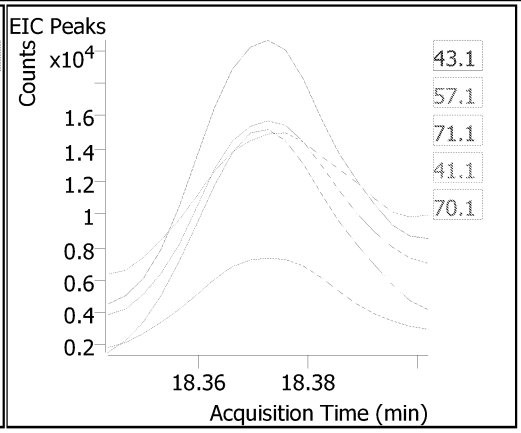
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3727 | Decane, 4-methyl- | 196427.1 | 89.5 | 2847-72-5 | C11H24 | 0.4221 |

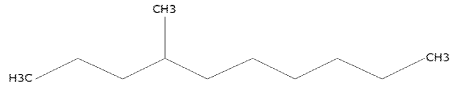


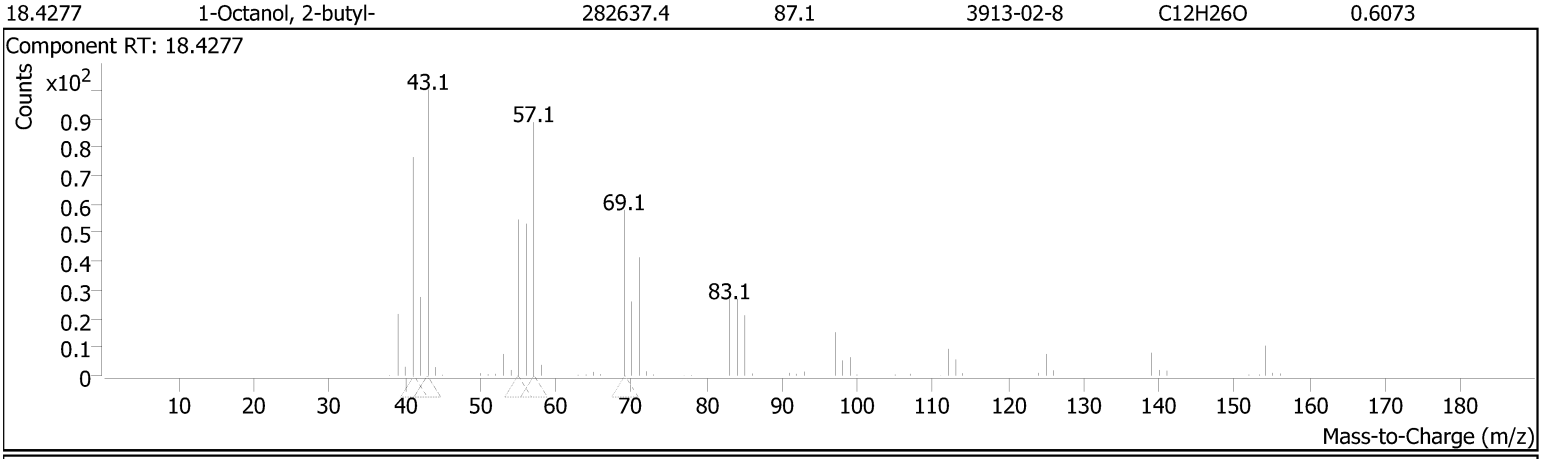



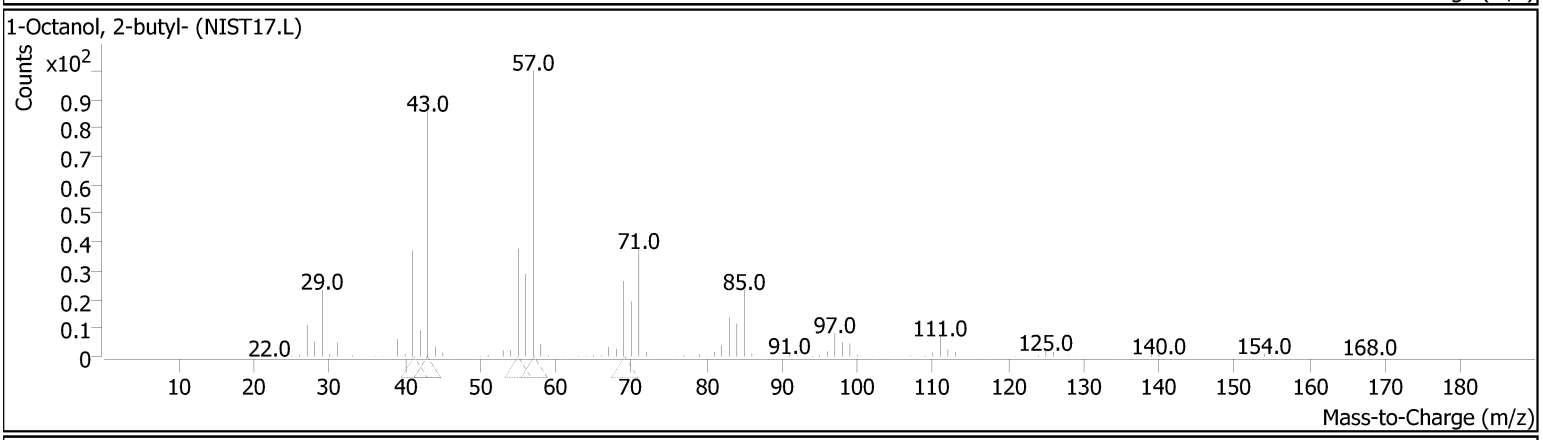



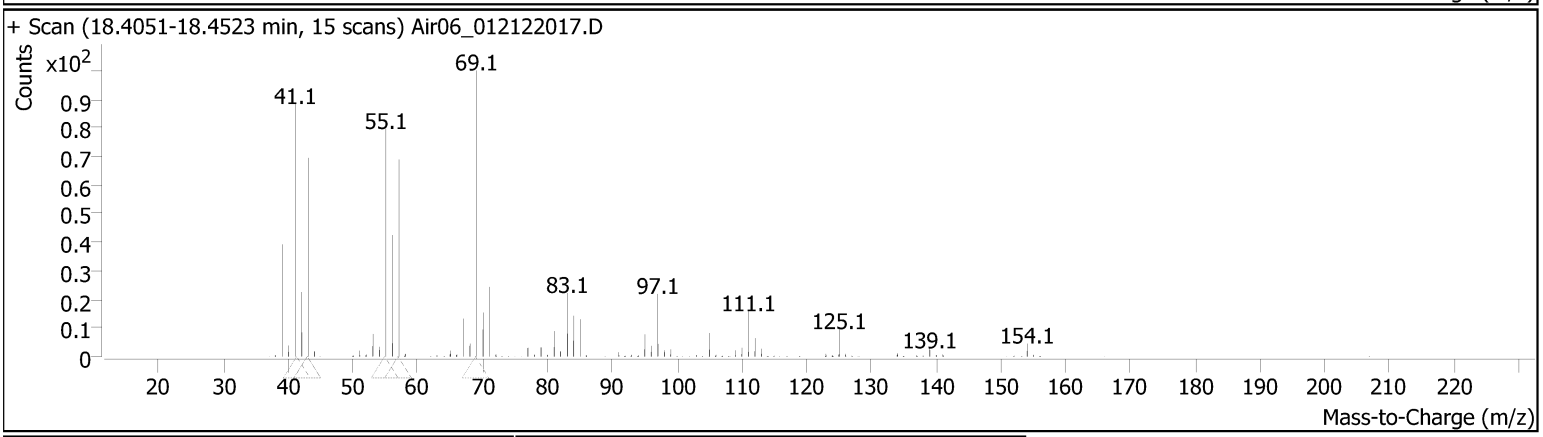



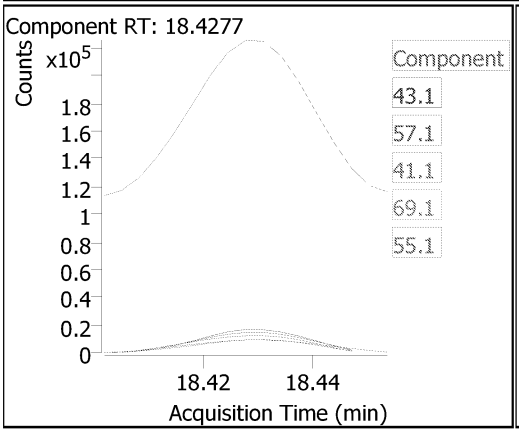



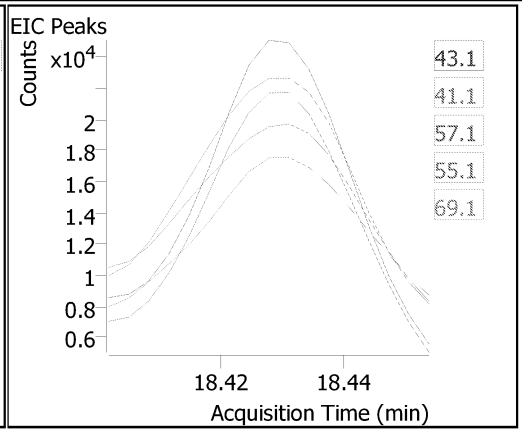
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4277 | 1-Octanol, 2-butyl- | 282637.4 | 87.1 | 3913-02-8 | C12H26O | 0.6073 |

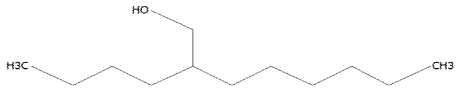


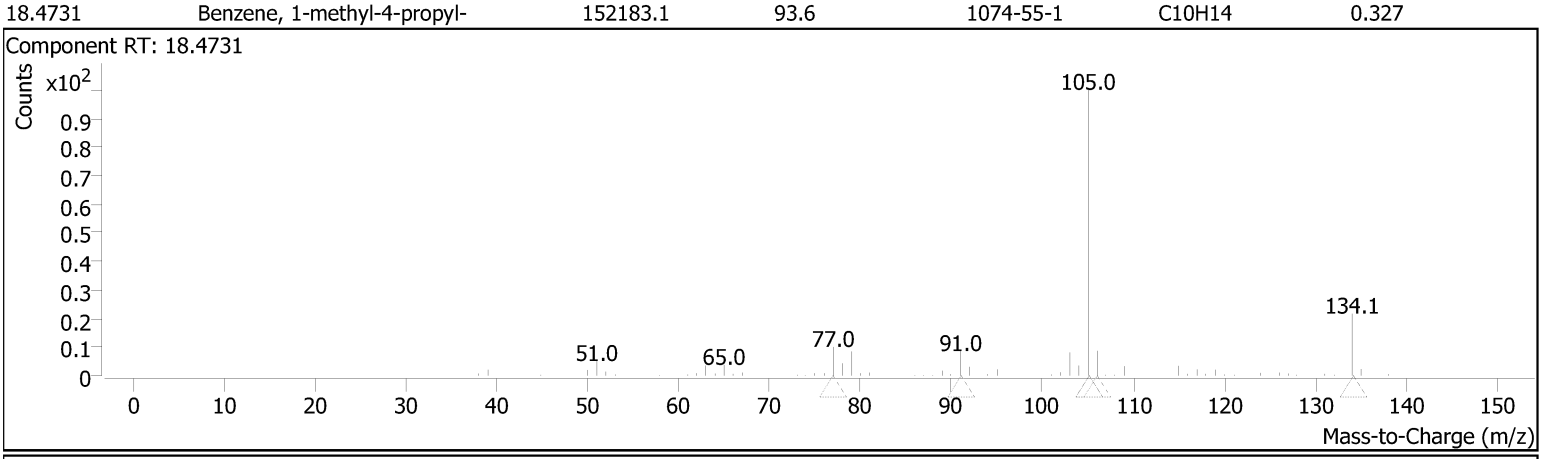



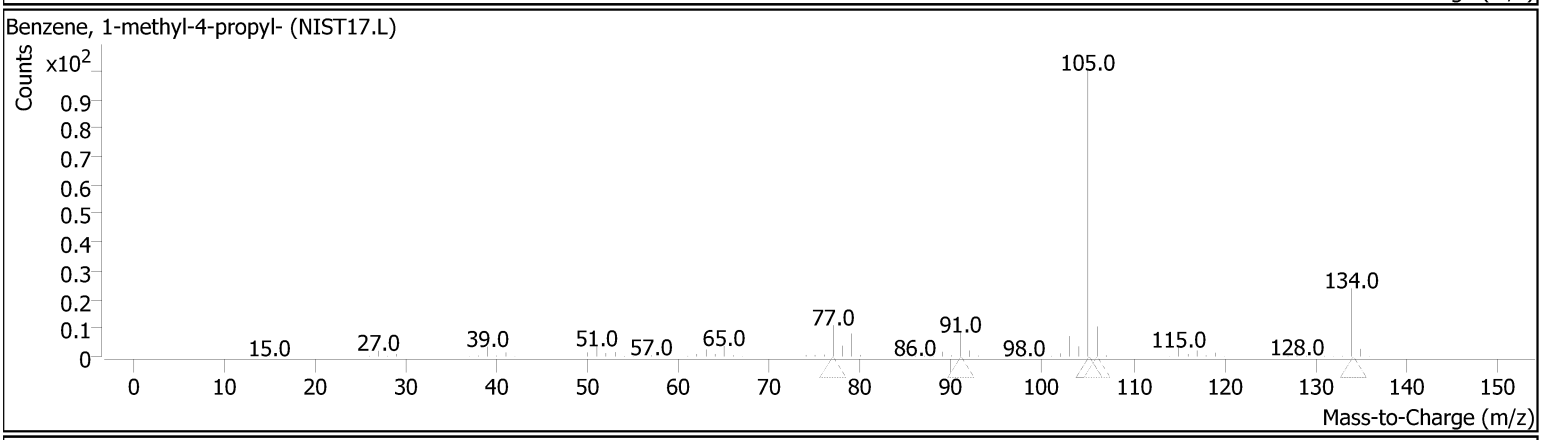



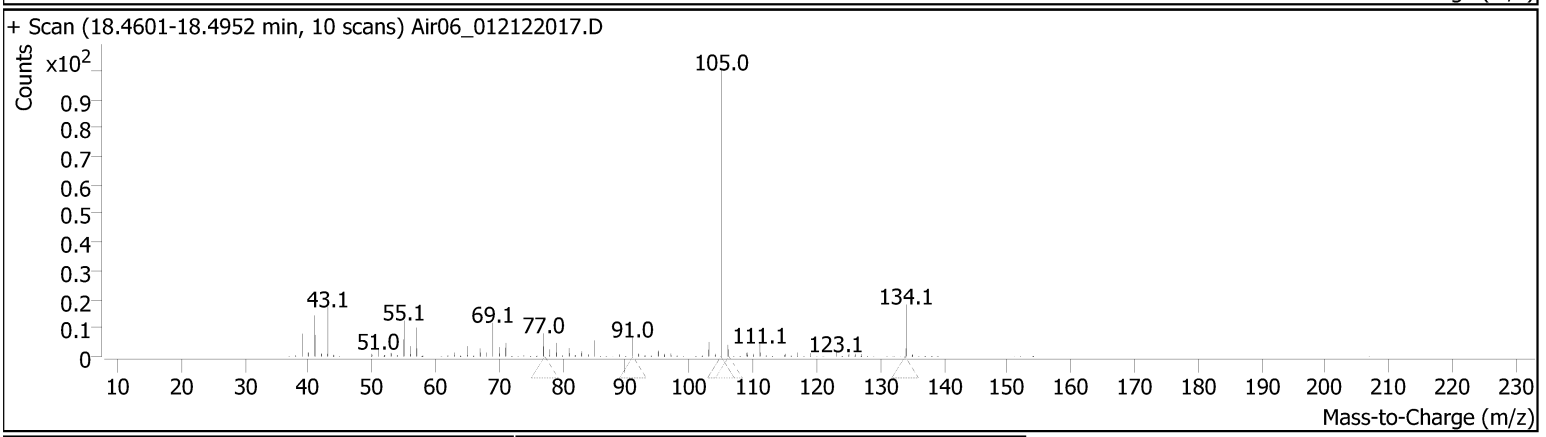



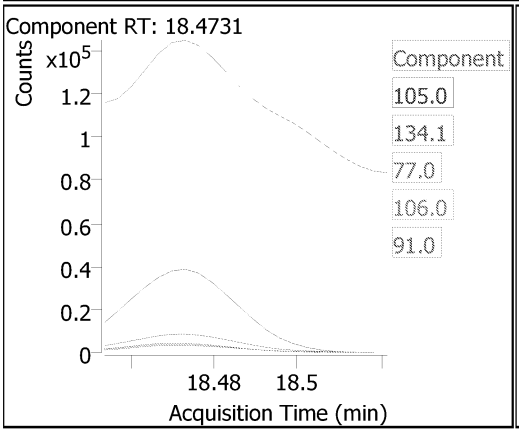



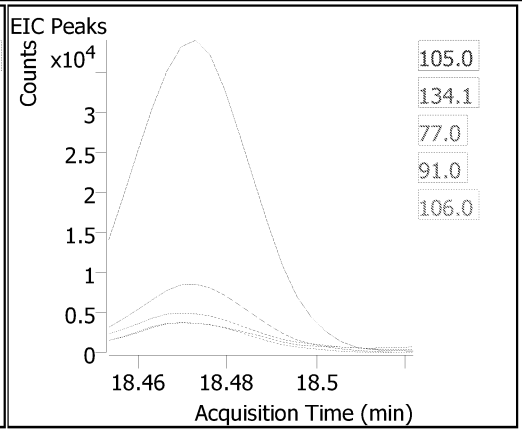
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4731 | Benzene, 1-methyl-4-propyl- | 152183.1 | 93.6 | 1074-55-1 | C10H14 | 0.327 |

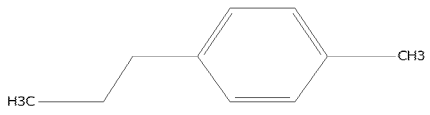


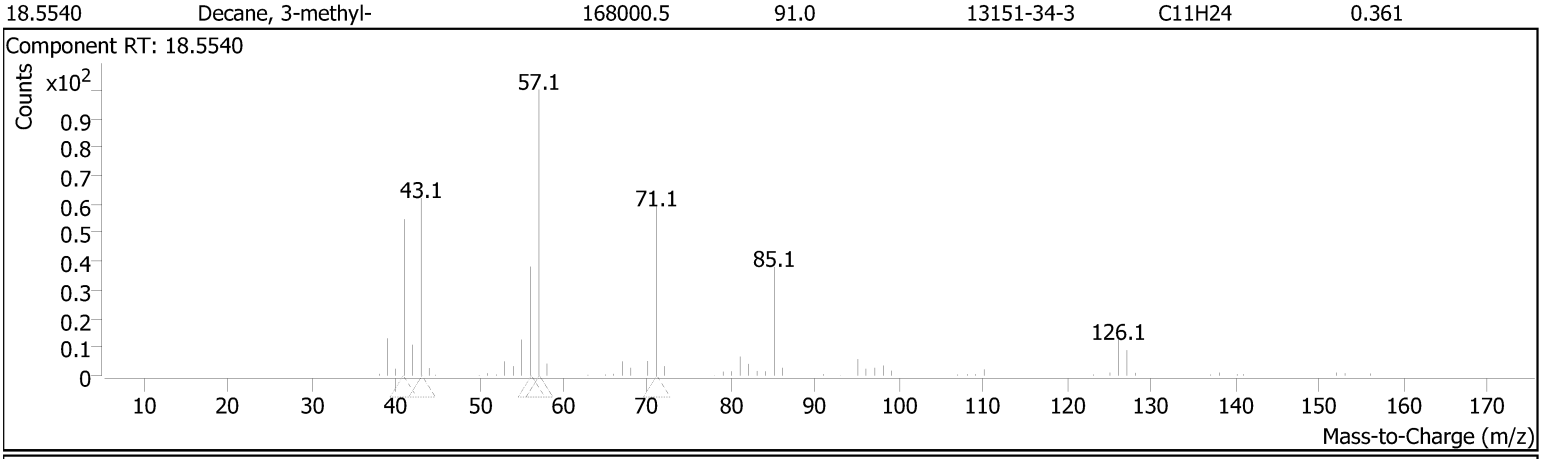



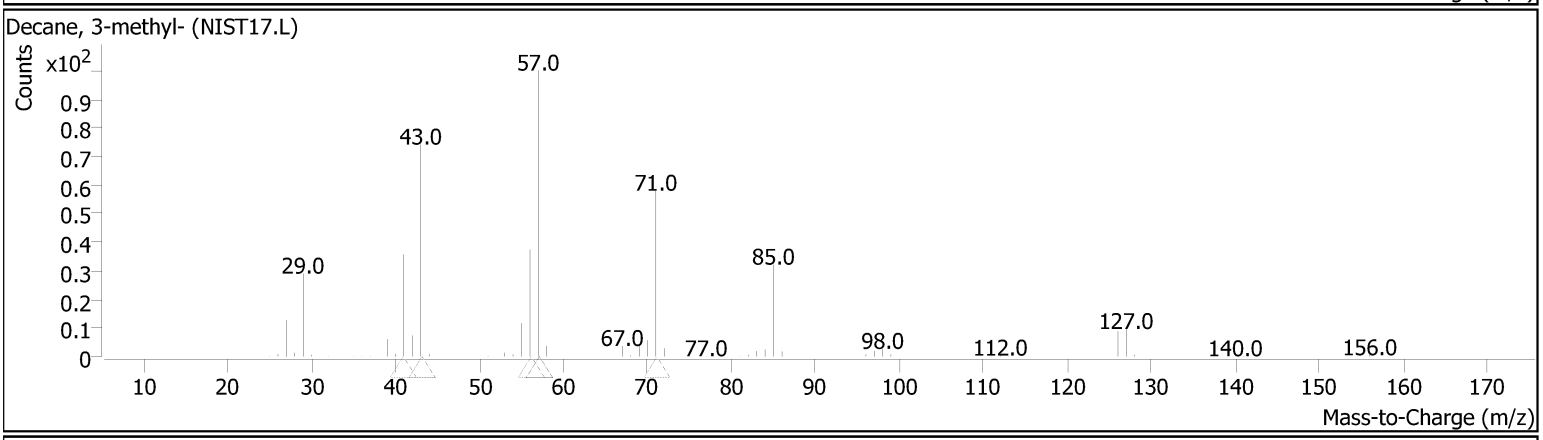



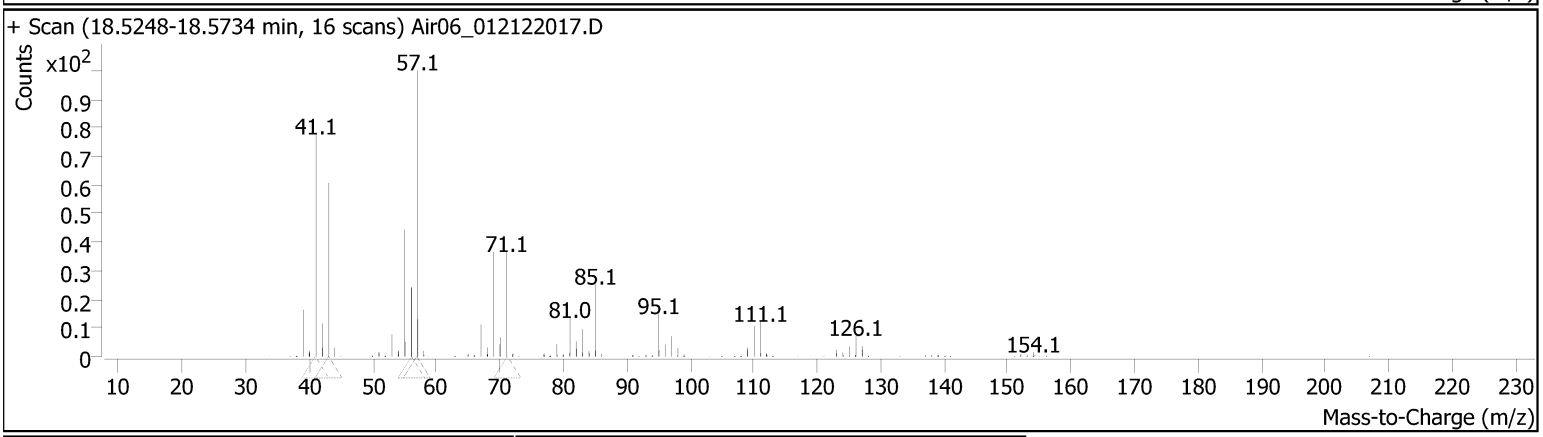



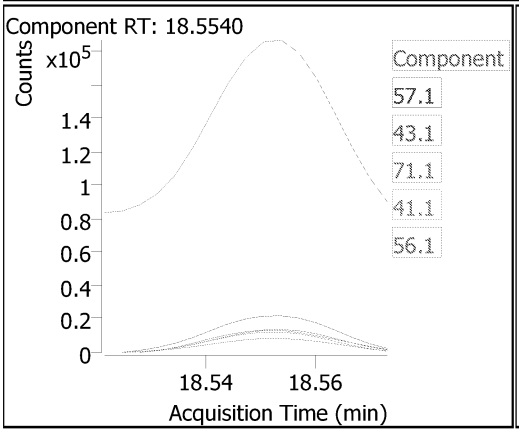



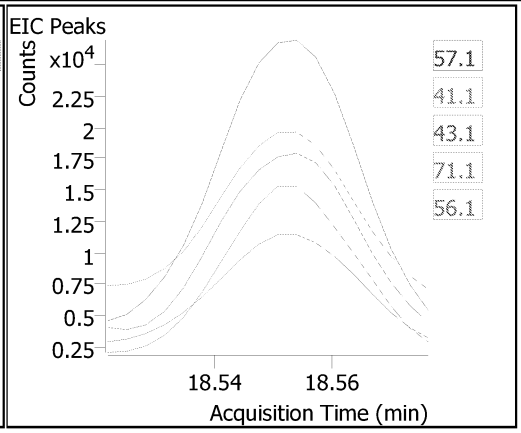
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.5540 | Decane, 3-methyl- | 168000.5 | 91.0 | 13151-34-3 | C11H24 | 0.361 |

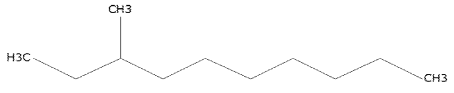


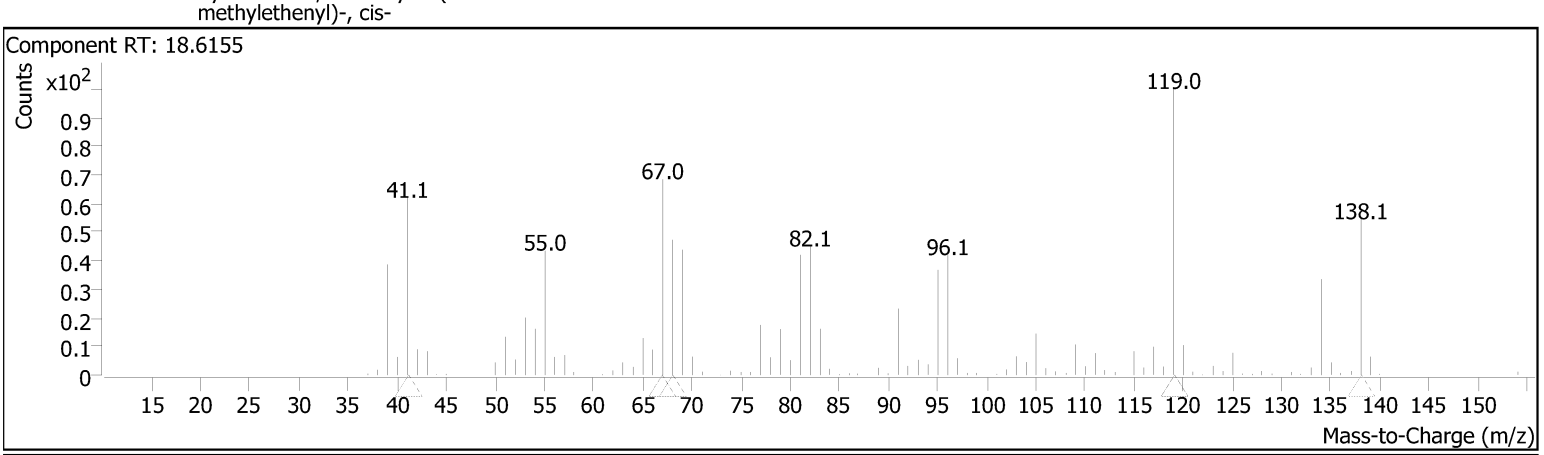



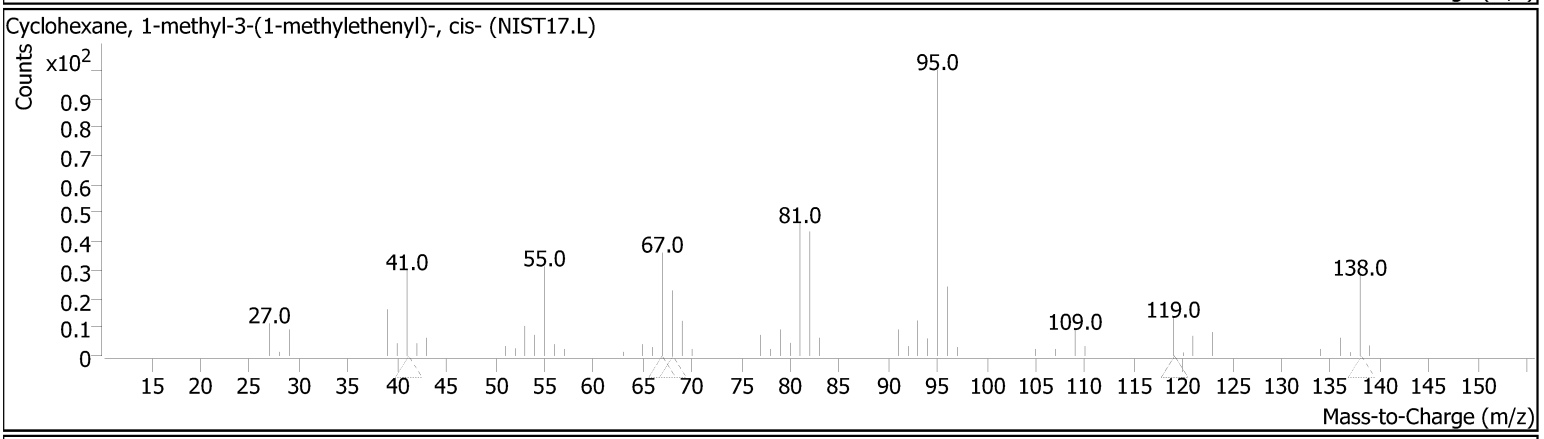



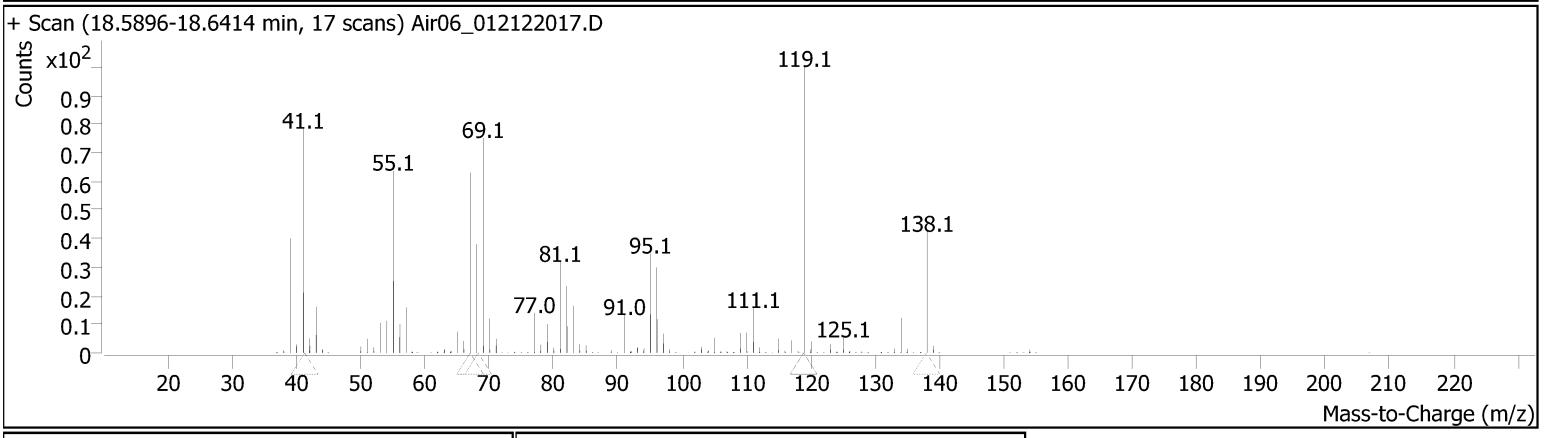



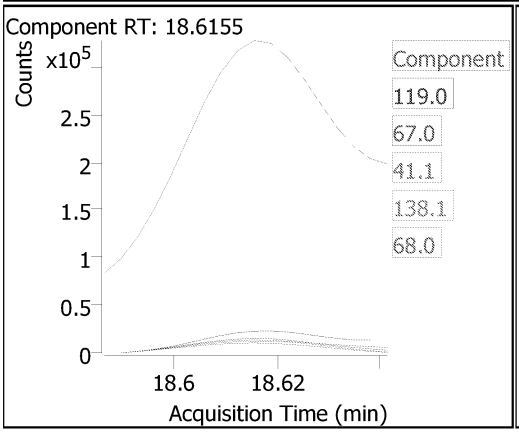



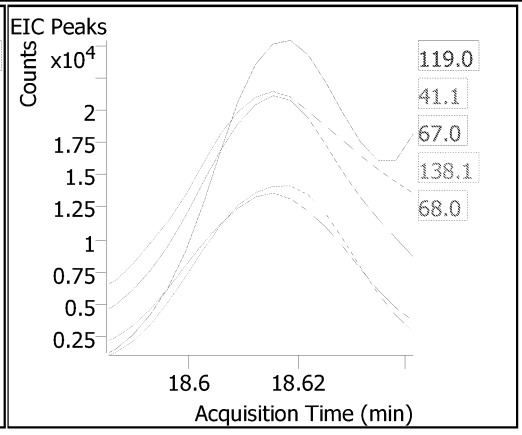
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.6155 | Cyclohexane, 1-methyl-3-(1-methylethenyl)-, cis- | 500661.0 | 80.1 | 24399-15-3 | C10H18 | 1.076 |

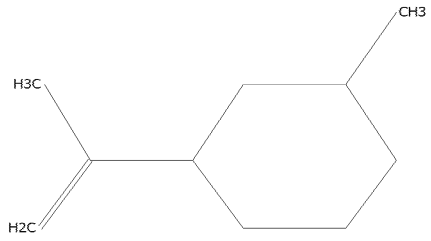


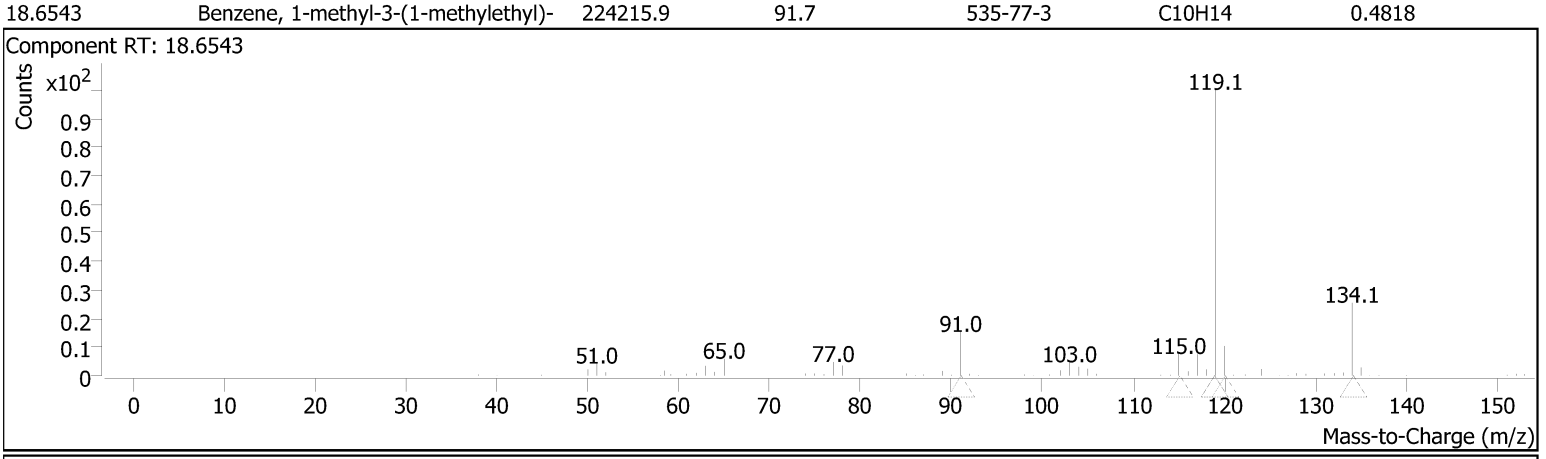



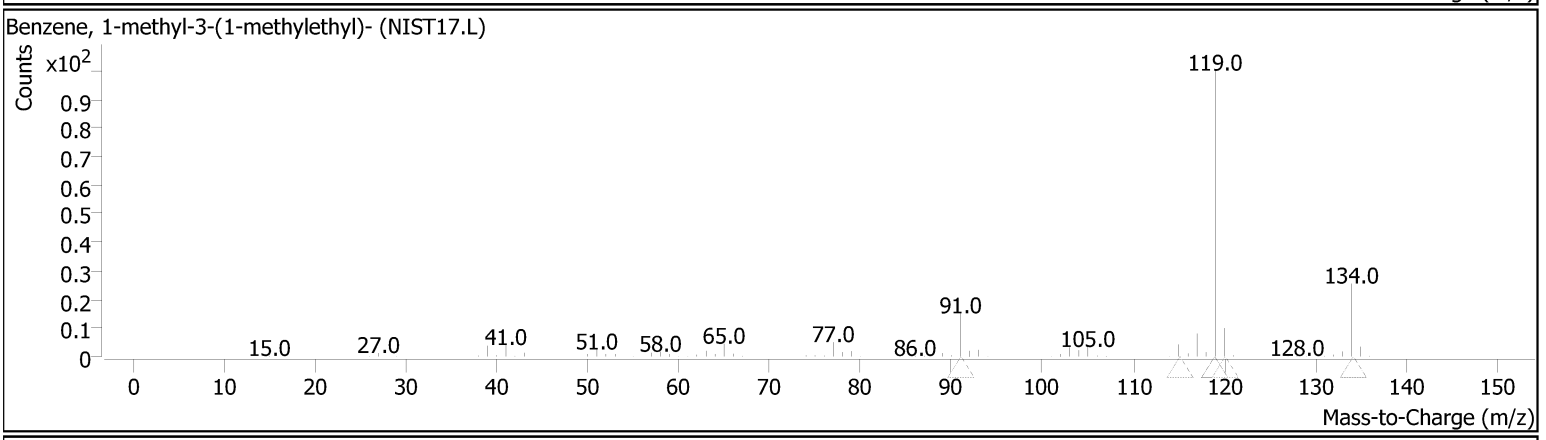



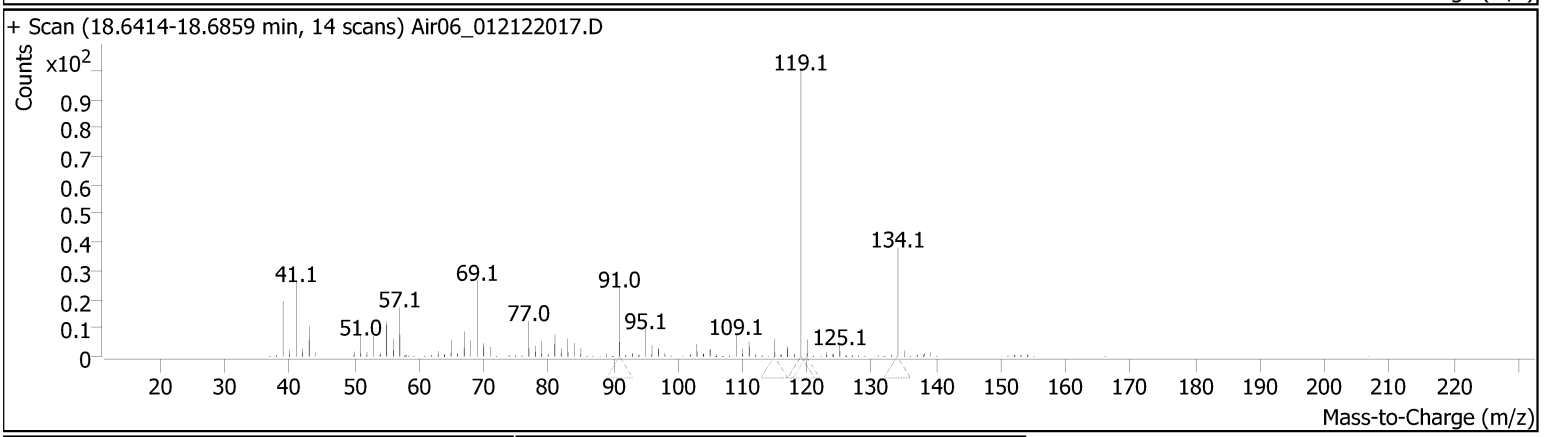



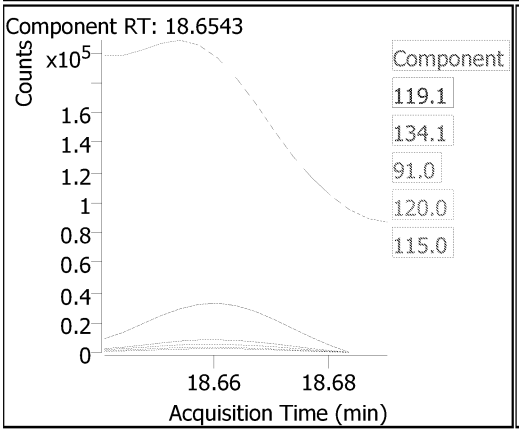



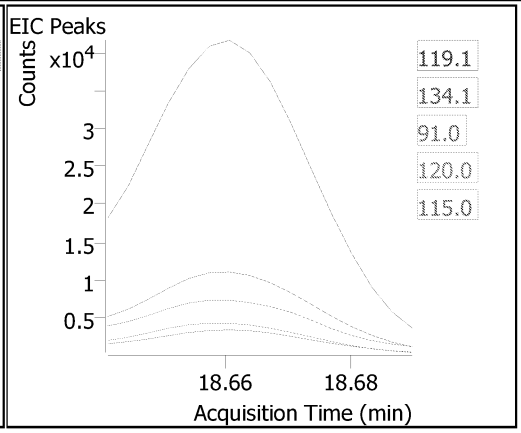
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.6543 | Benzene, 1-methyl-3-(1-methylethyl)- | 224215.9 | 91.7 | 535-77-3 | C10H14 | 0.4818 |

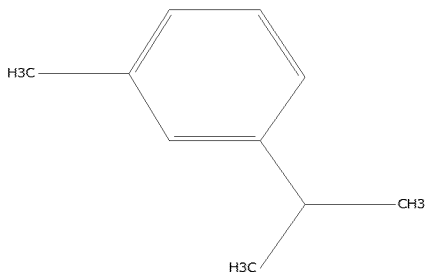


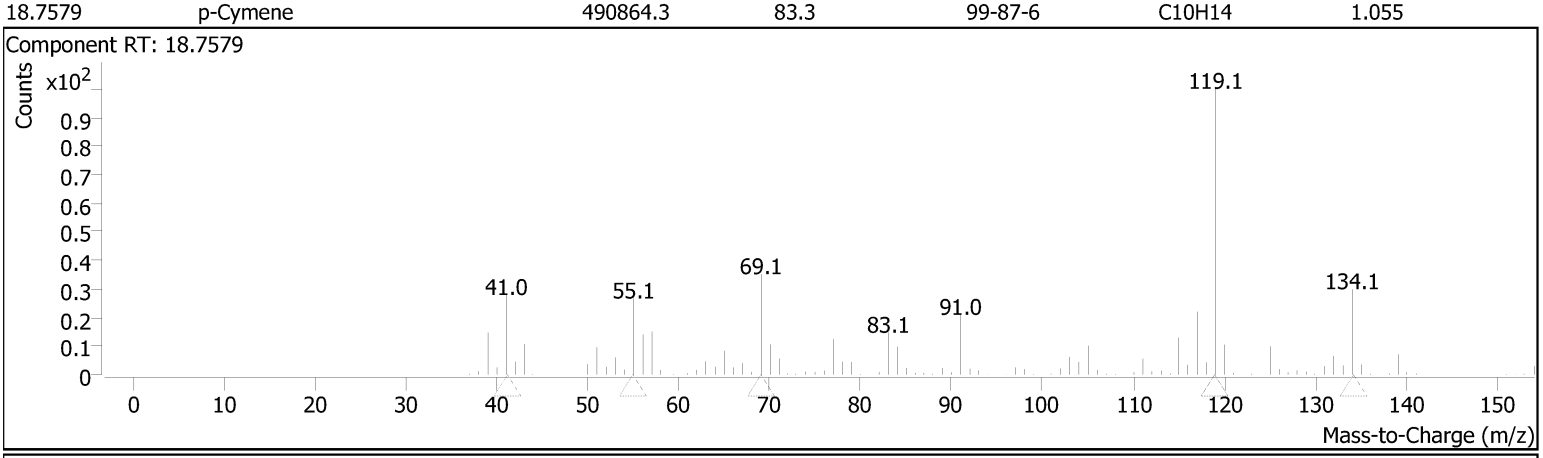



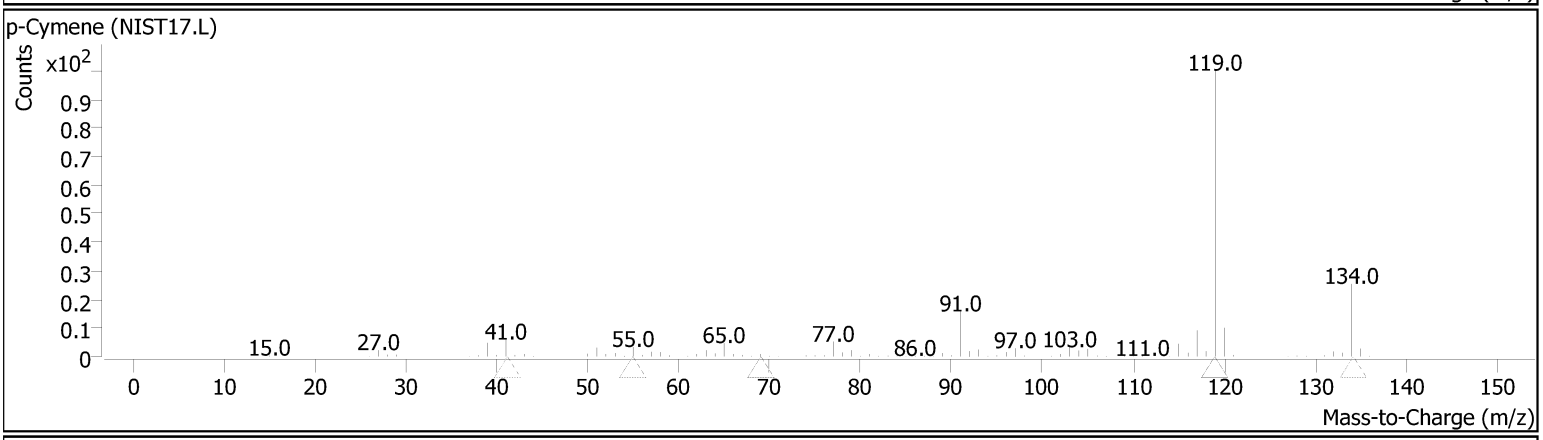



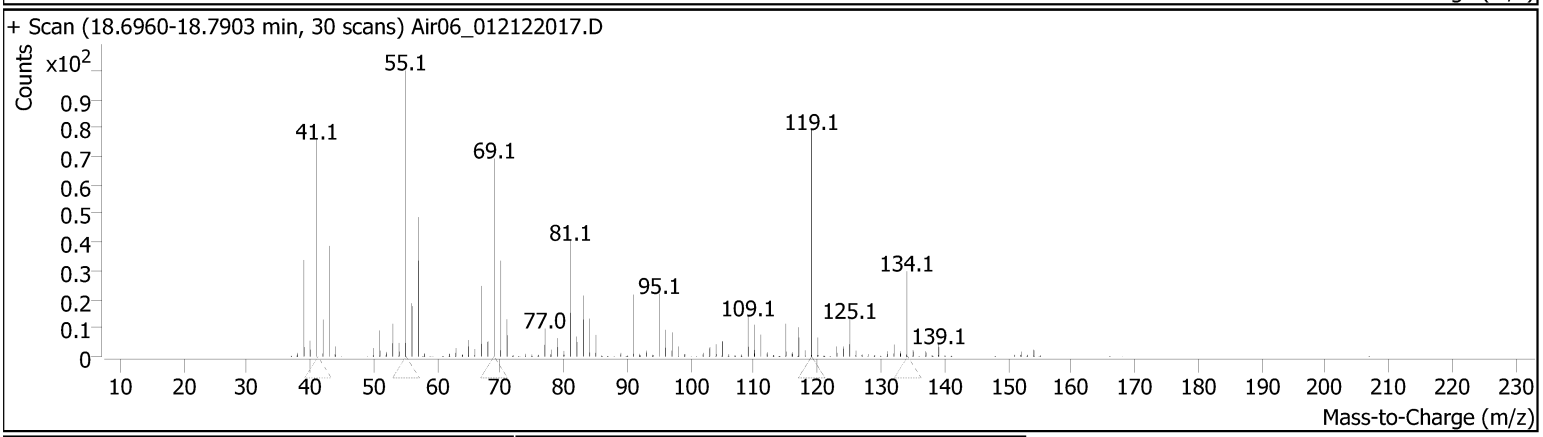



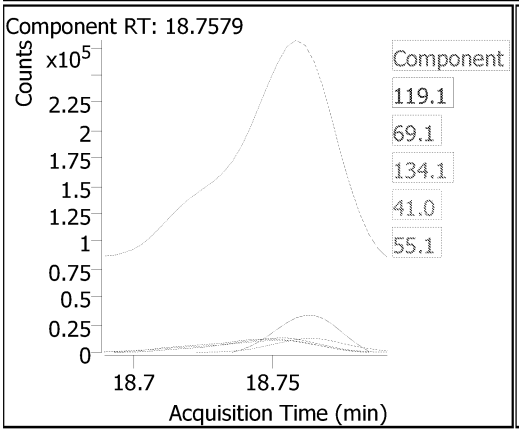



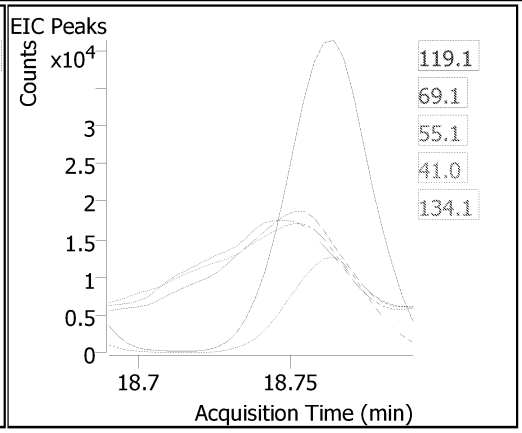
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.7579 | p-Cymene | 490864.3 | 83.3 | 99-87-6 | C10H14 | 1.055 |

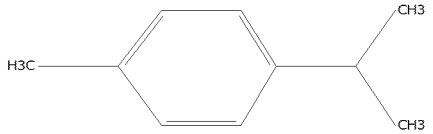


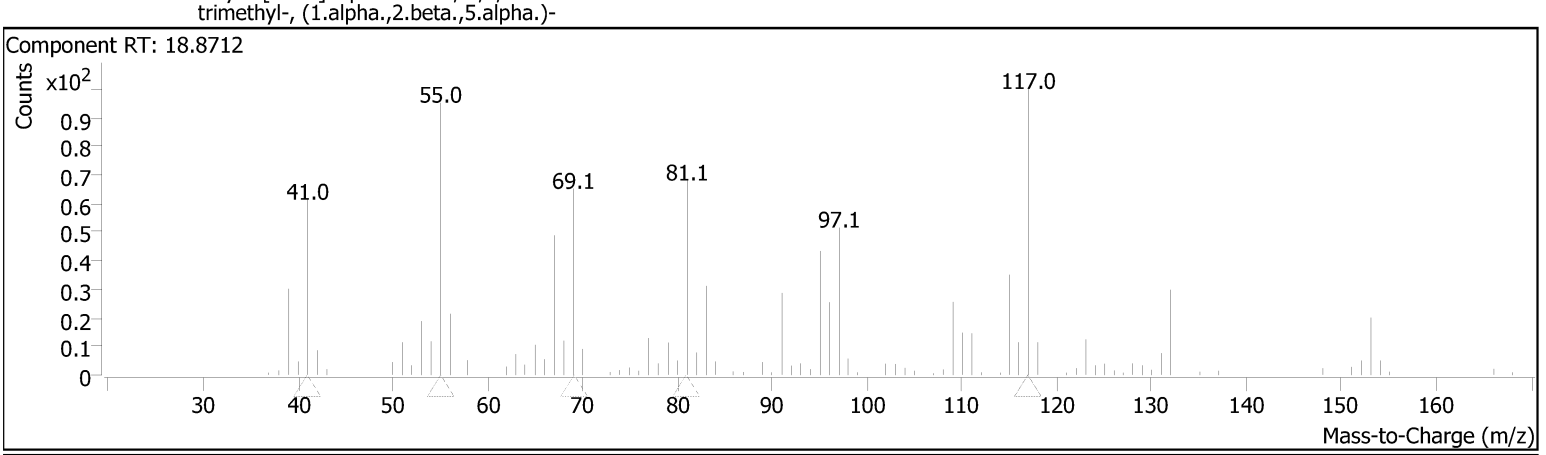



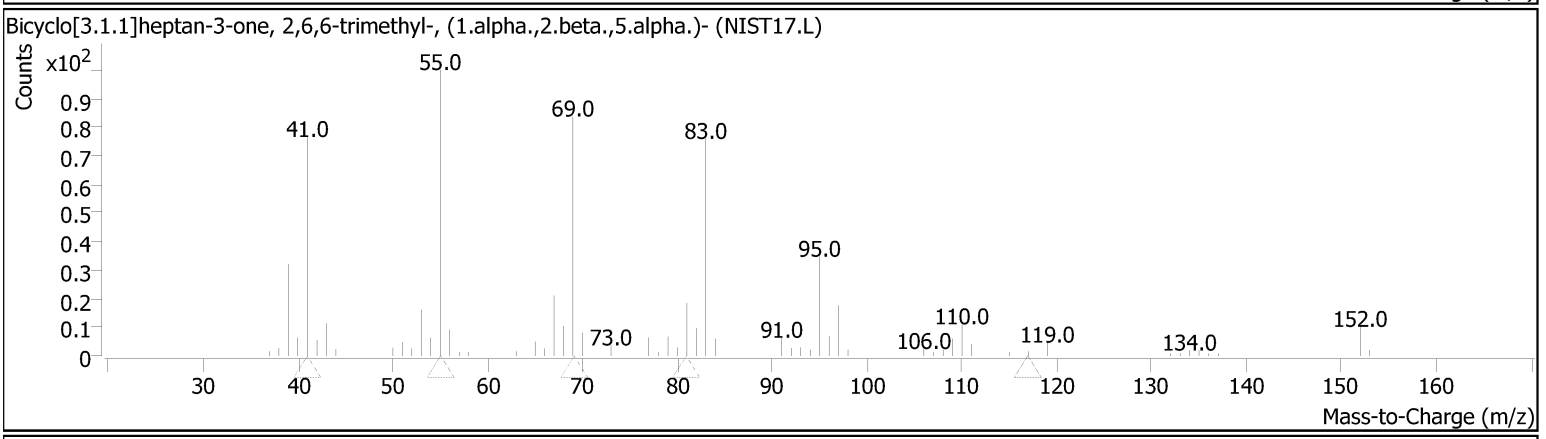



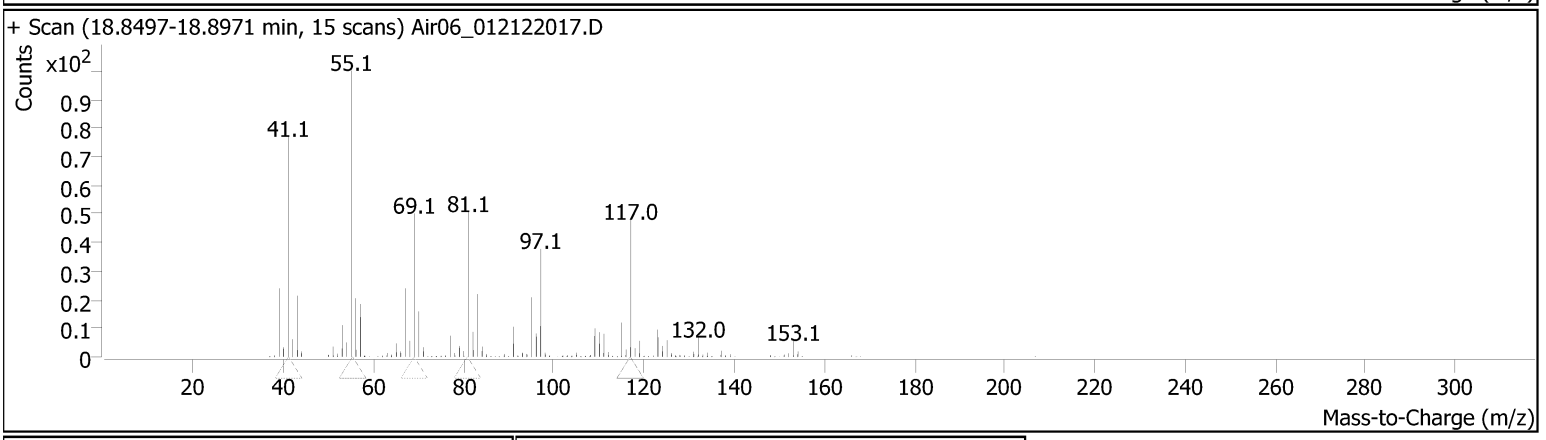



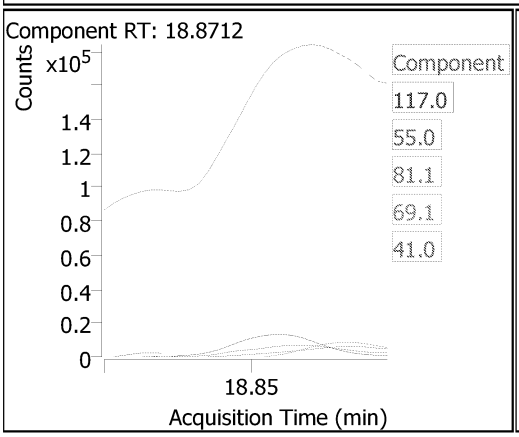



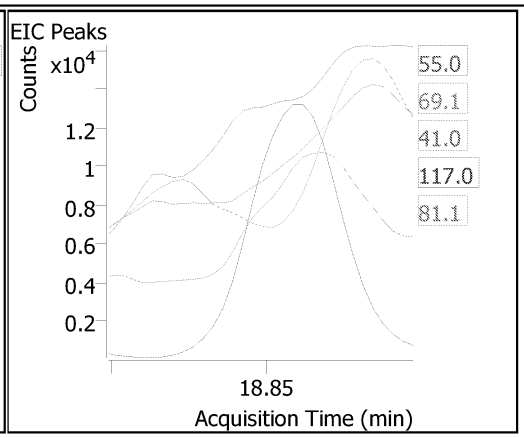
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.8712 | Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1.alpha.,2.beta.,5.alpha.)- | 308726.1 | 71.6 | 15358-88-0 | C10H16O | 0.6634 |

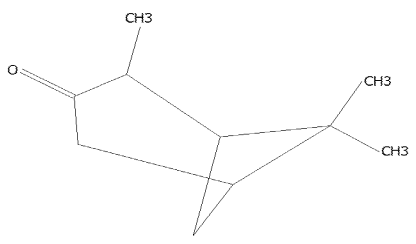


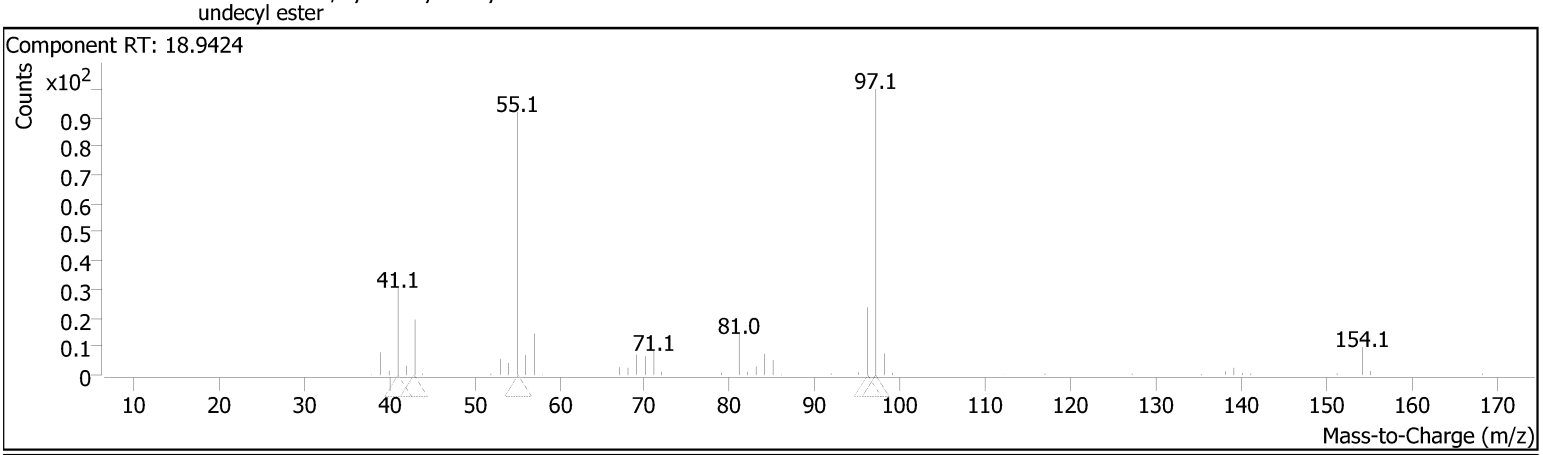



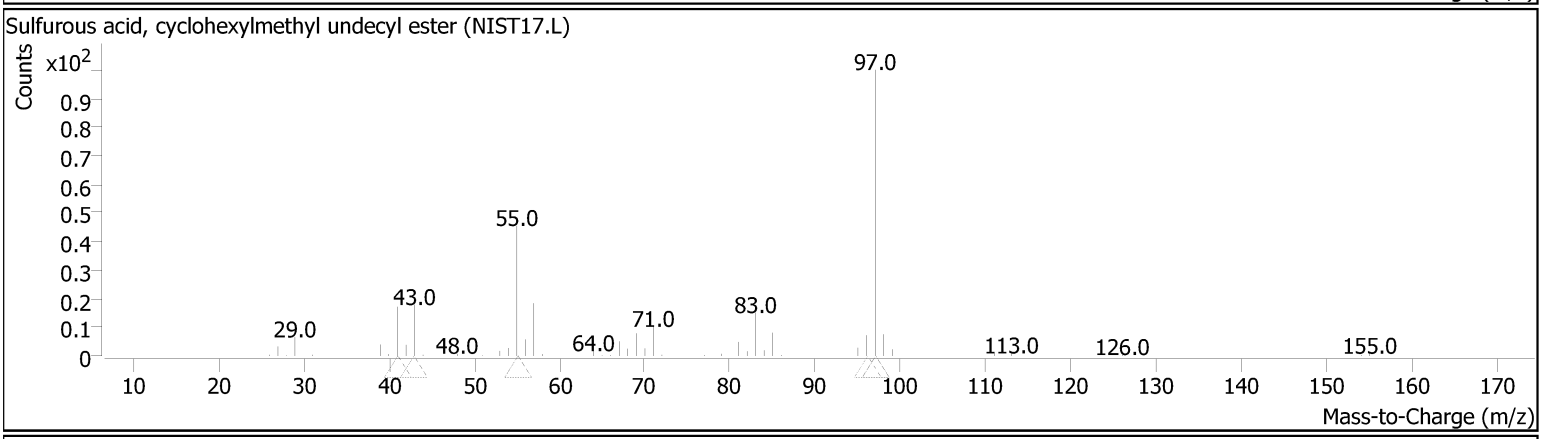



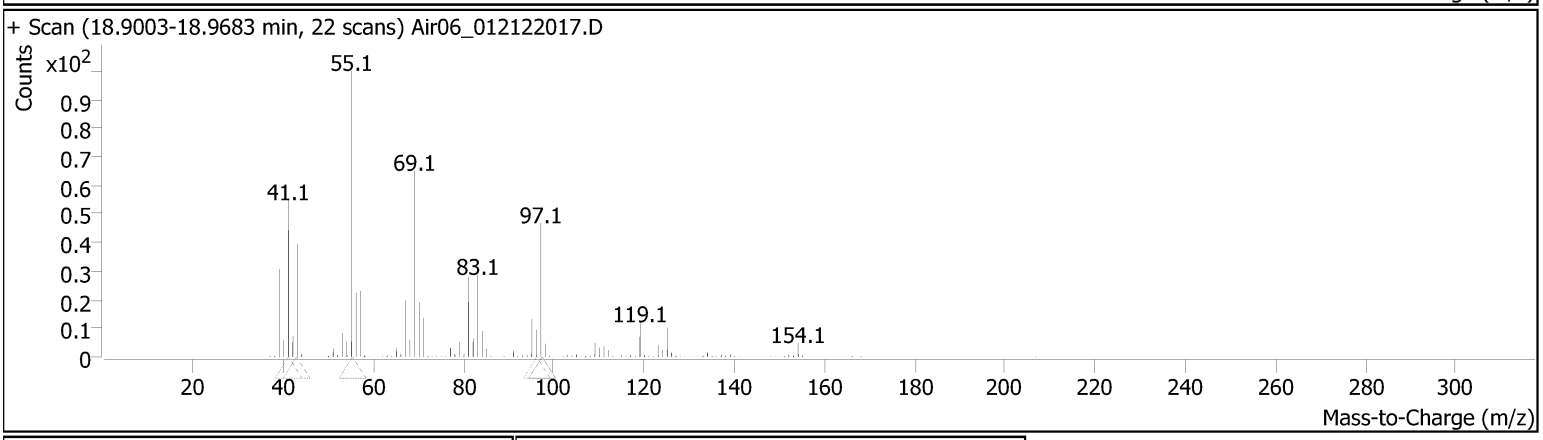
# Library Search Results - NonTarget Hits with Details

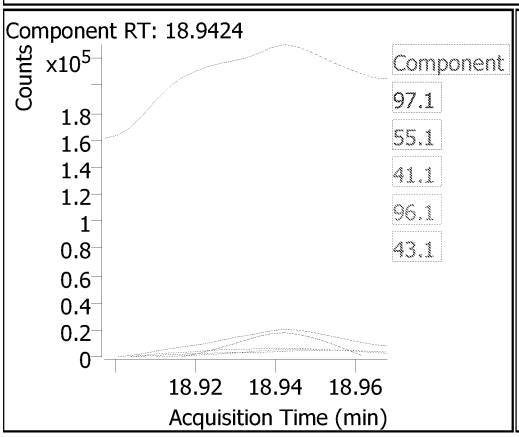
Agilent Technologies

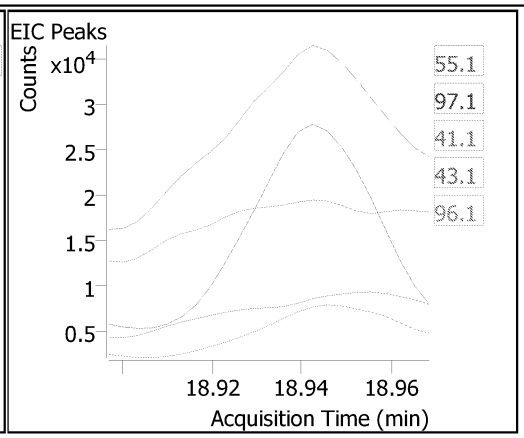
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.9424 | Sulfurous acid, cyclohexylmethyl undecyl ester | 510333.1 | 87.1 | 1000309-21-9 | C18H36O3S | 1.097 |

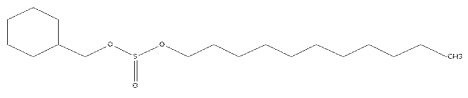


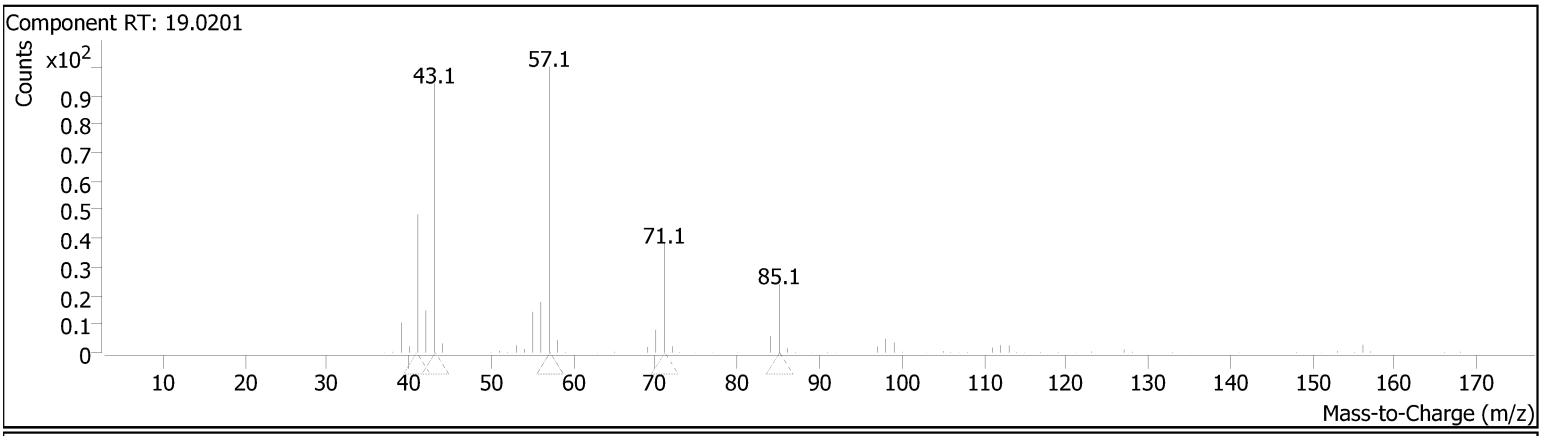



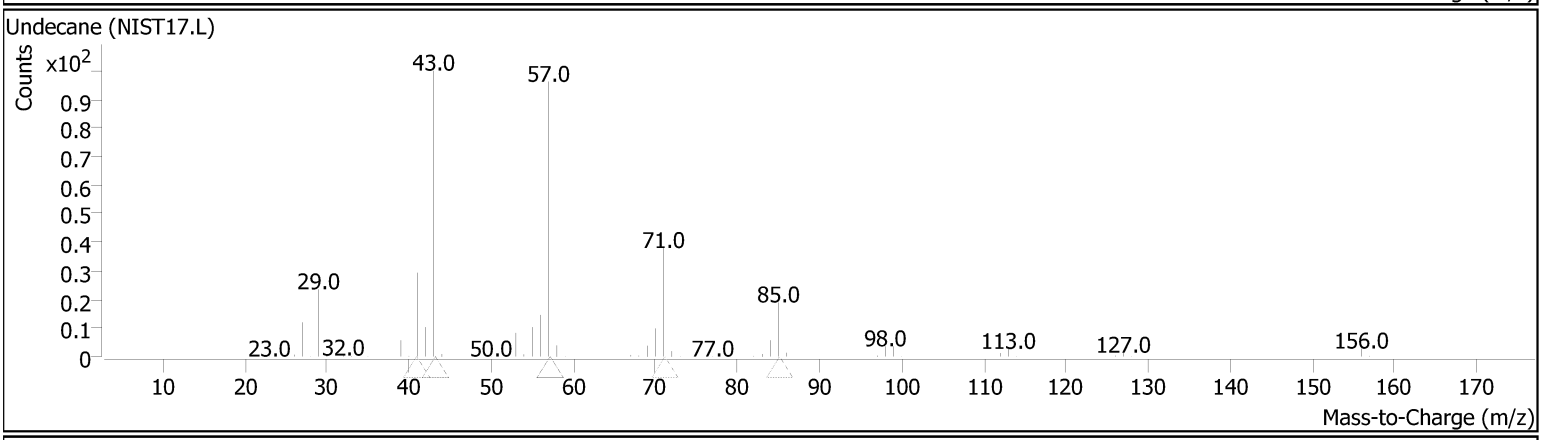



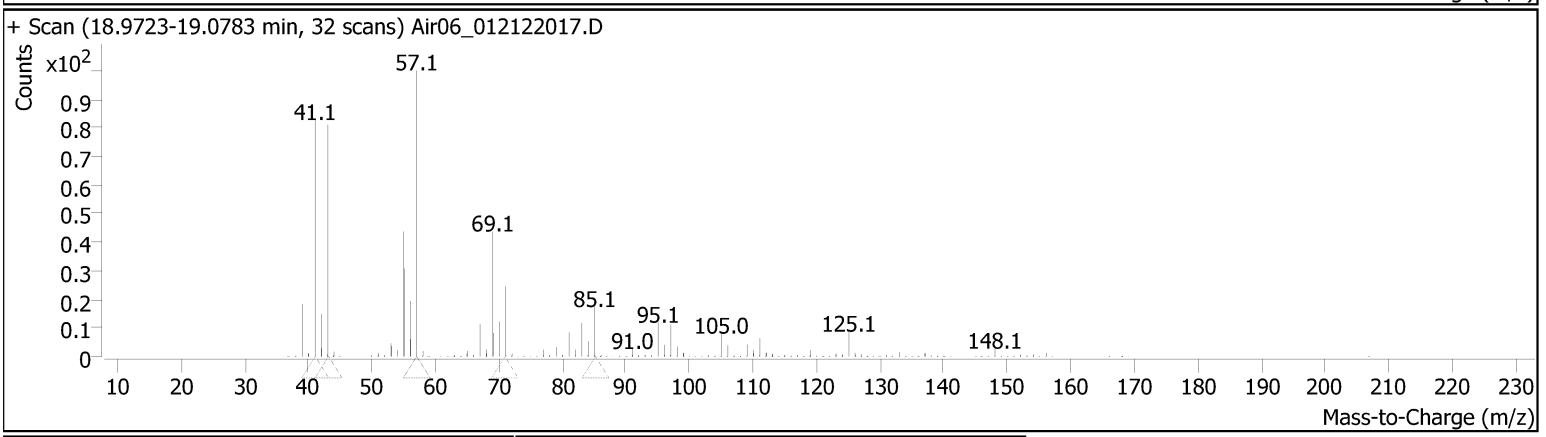



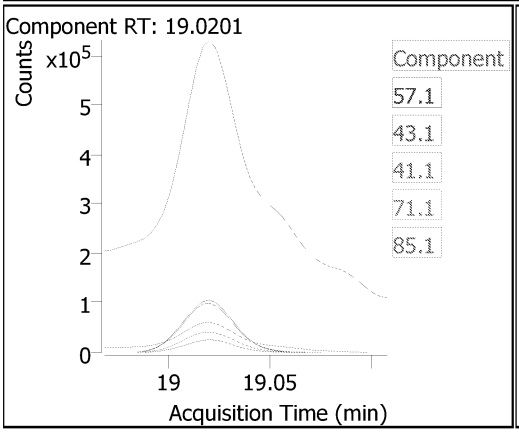



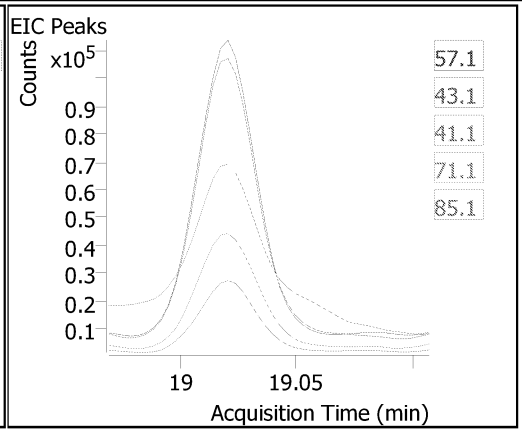
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.0201 | Undecane | 1725973.5 | 95.1 | 1120-21-4 | C11H24 | 3.709 |



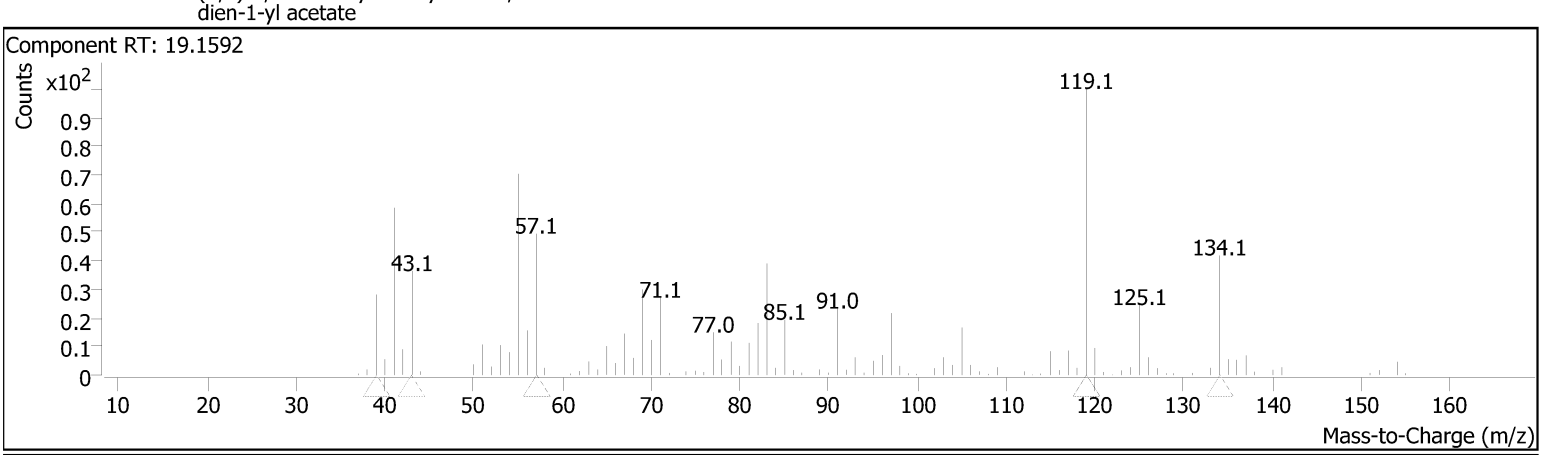



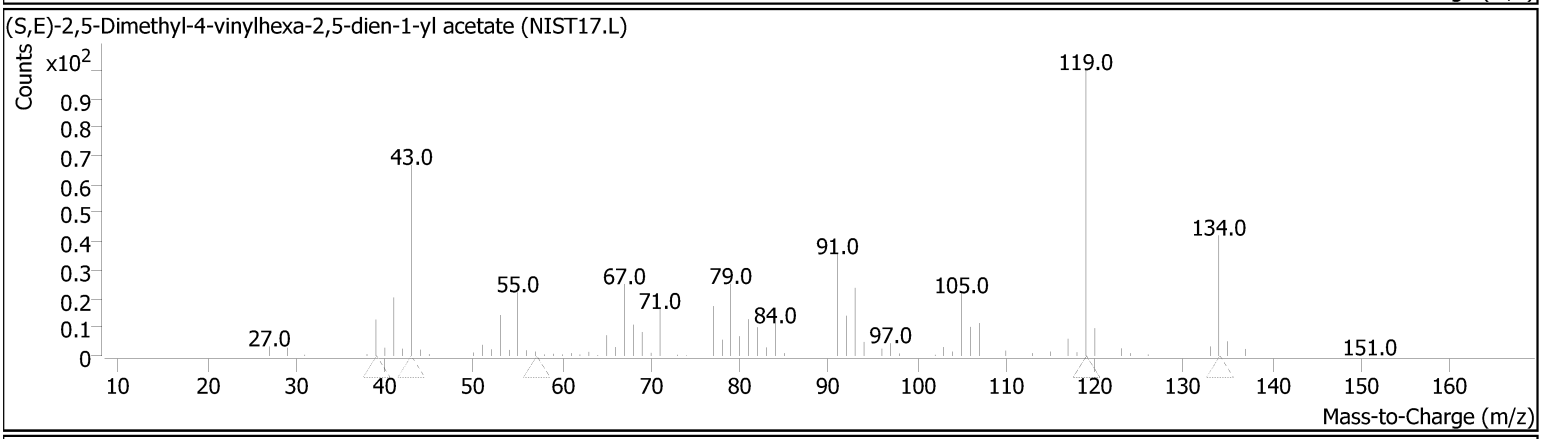



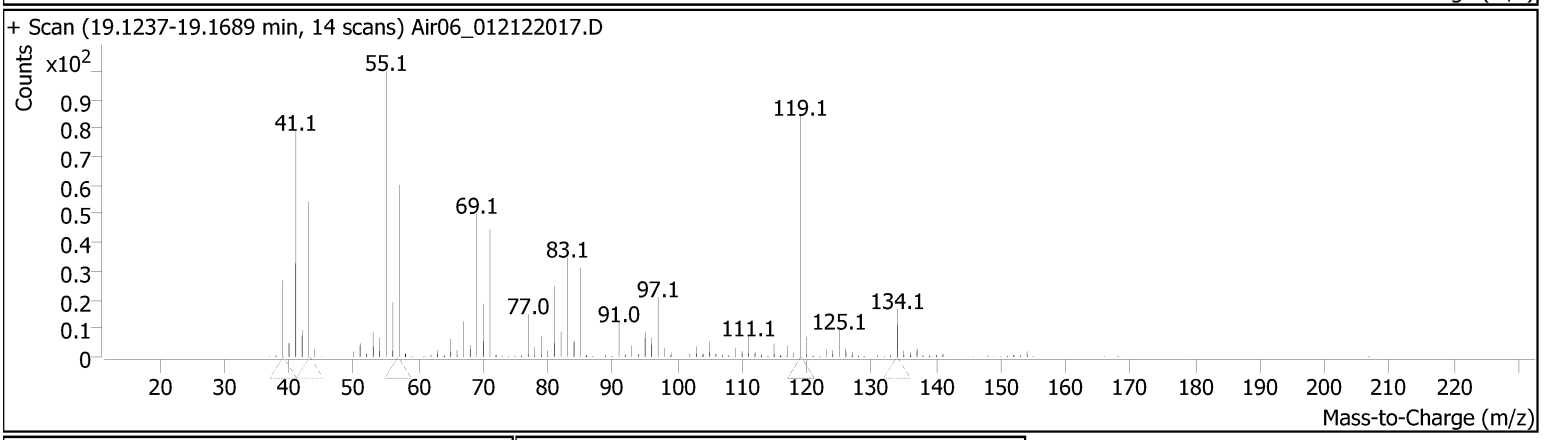



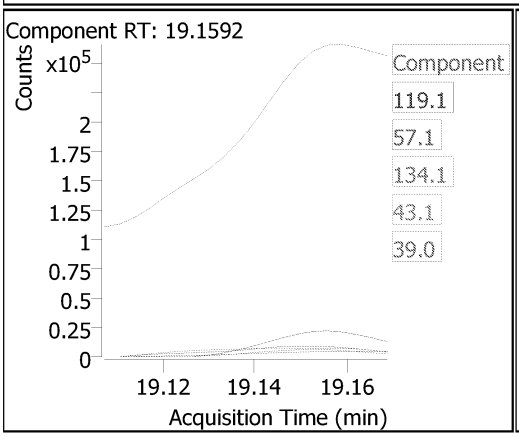


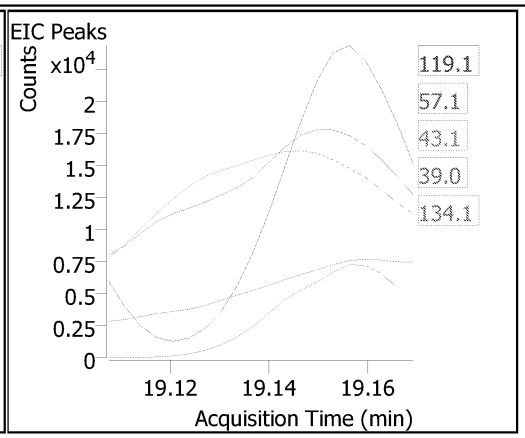

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.1592 | (S,E)-2,5-Dimethyl-4-vinylhexa-2,5-dien-1-yl acetate | 378302.3 | 78.3 | 20384-05-8 | C12H18O2 | 0.8129 |

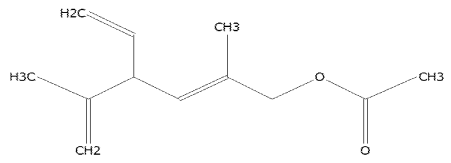


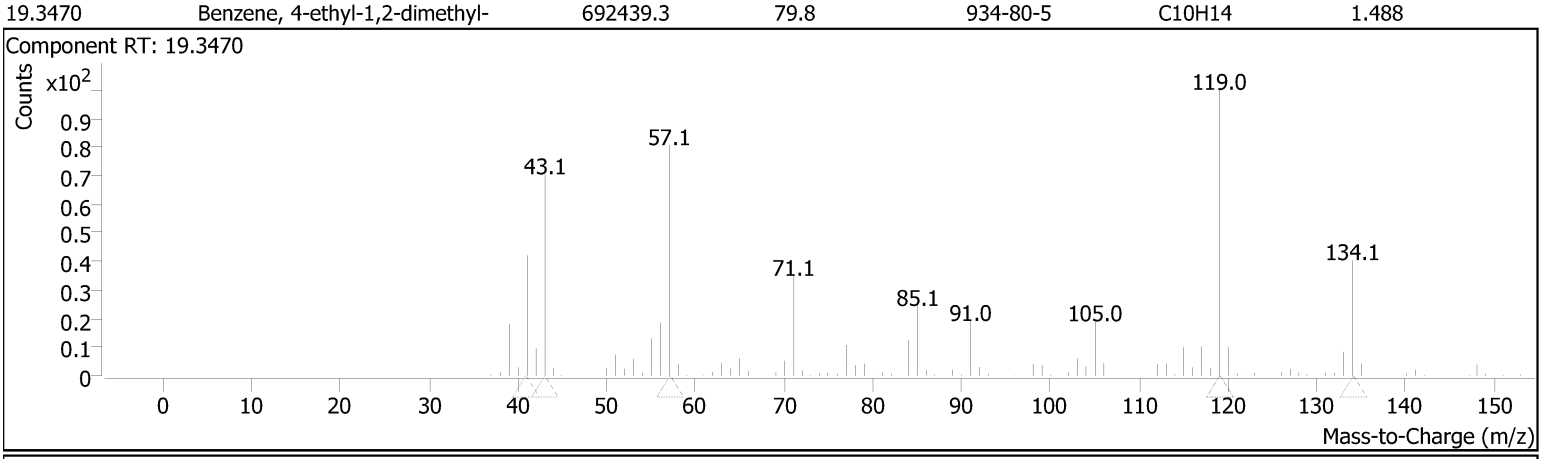



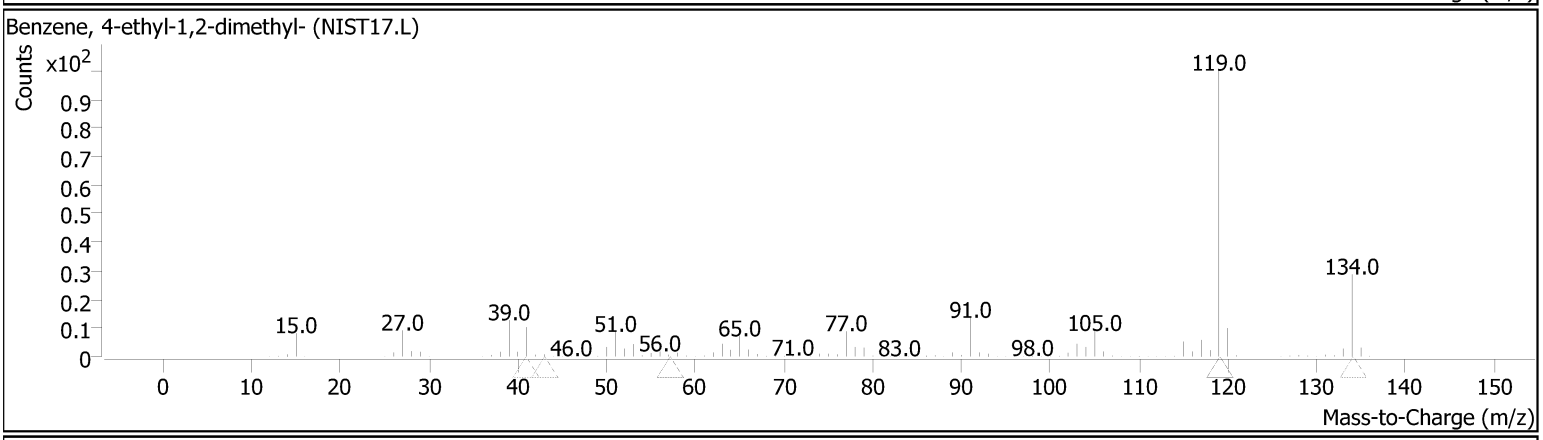



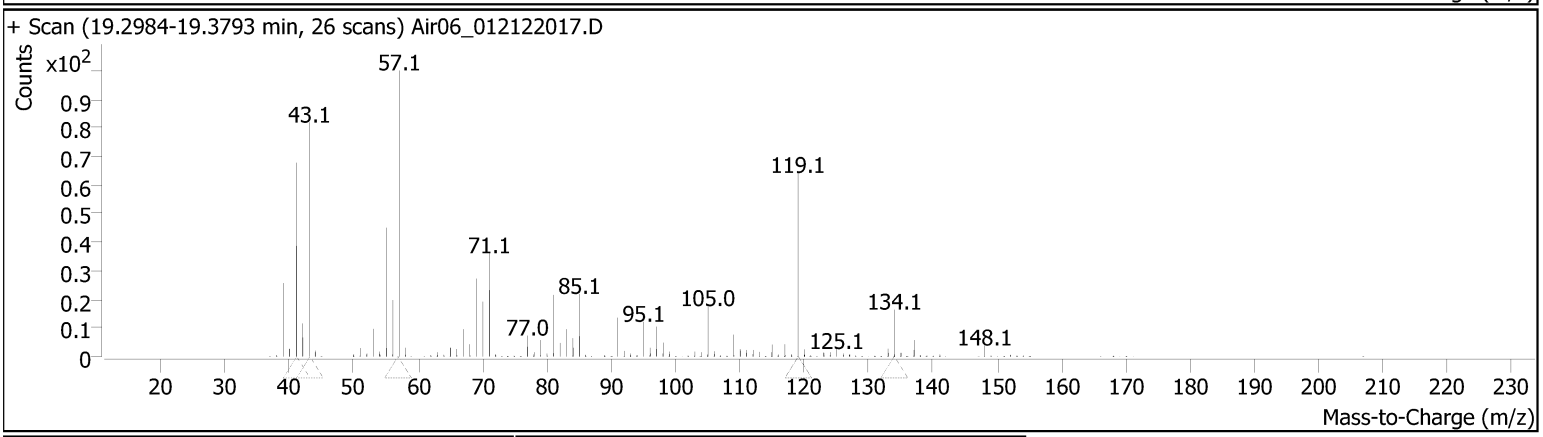



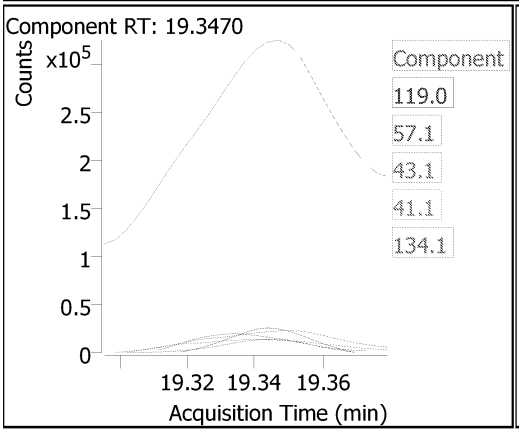



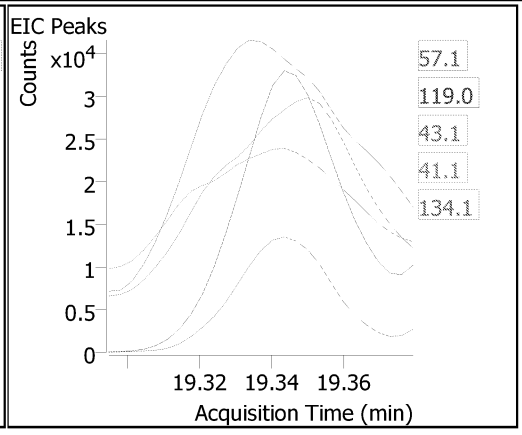
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.3470 | Benzene, 4-ethyl-1,2-dimethyl- | 692439.3 | 79.8 | 934-80-5 | C10H14 | 1.488 |

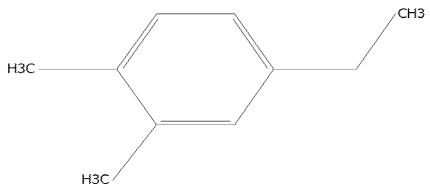


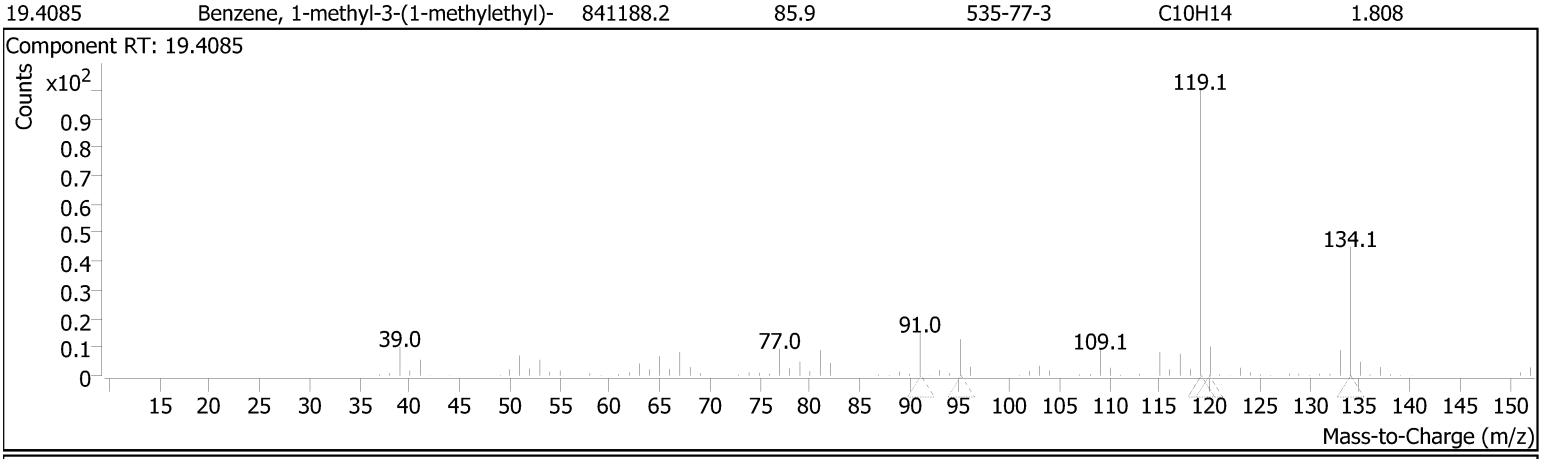



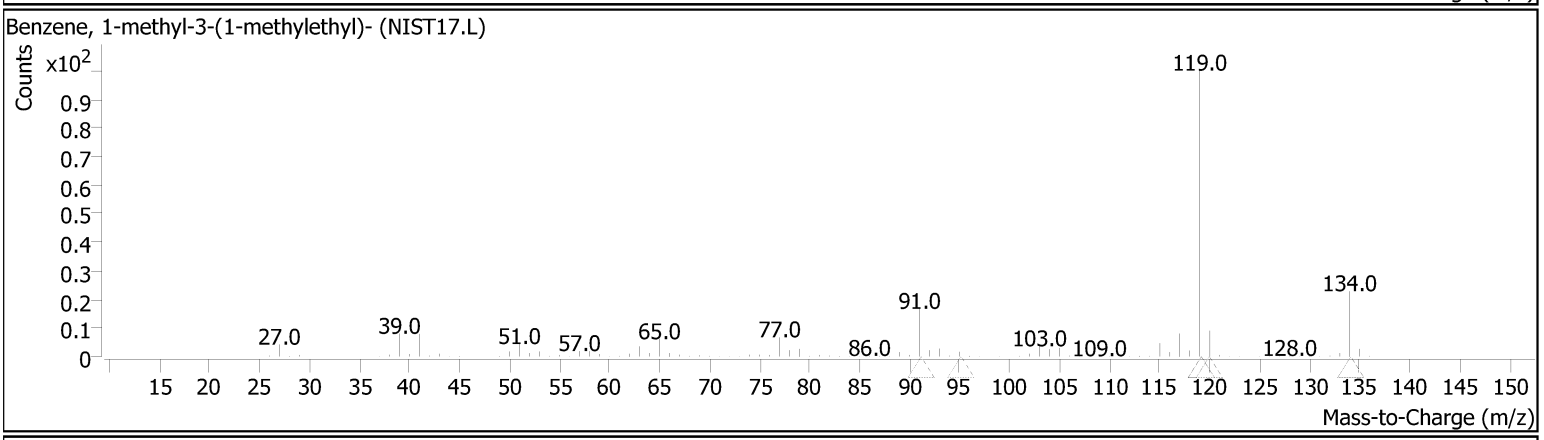



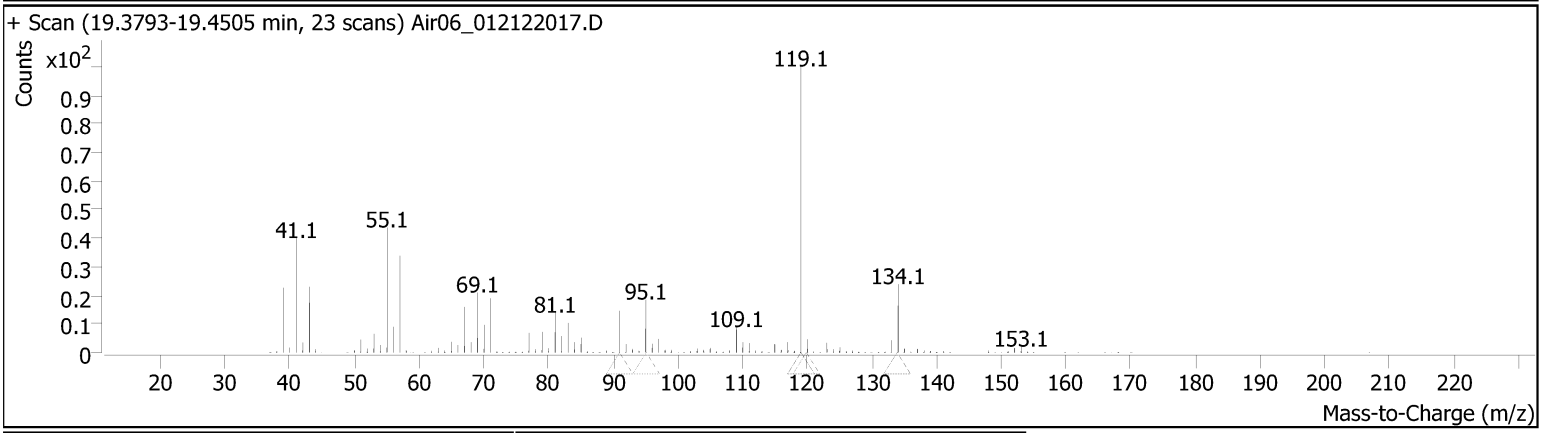



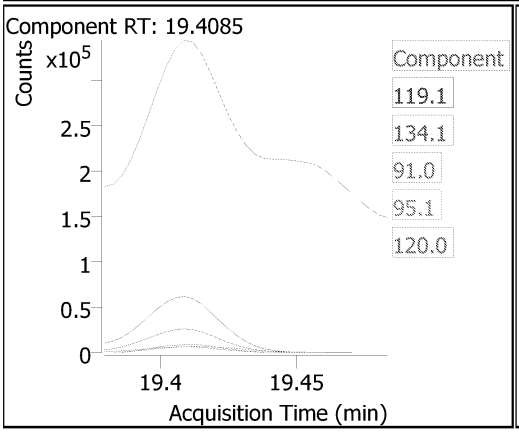



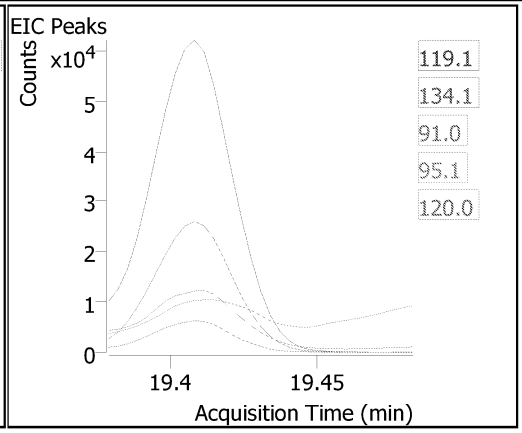
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.4085 | Benzene, 1-methyl-3-(1-methylethyl)- | 841188.2 | 85.9 | 535-77-3 | C10H14 | 1.808 |

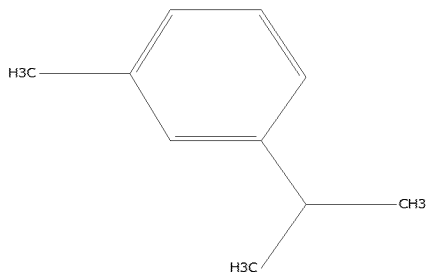


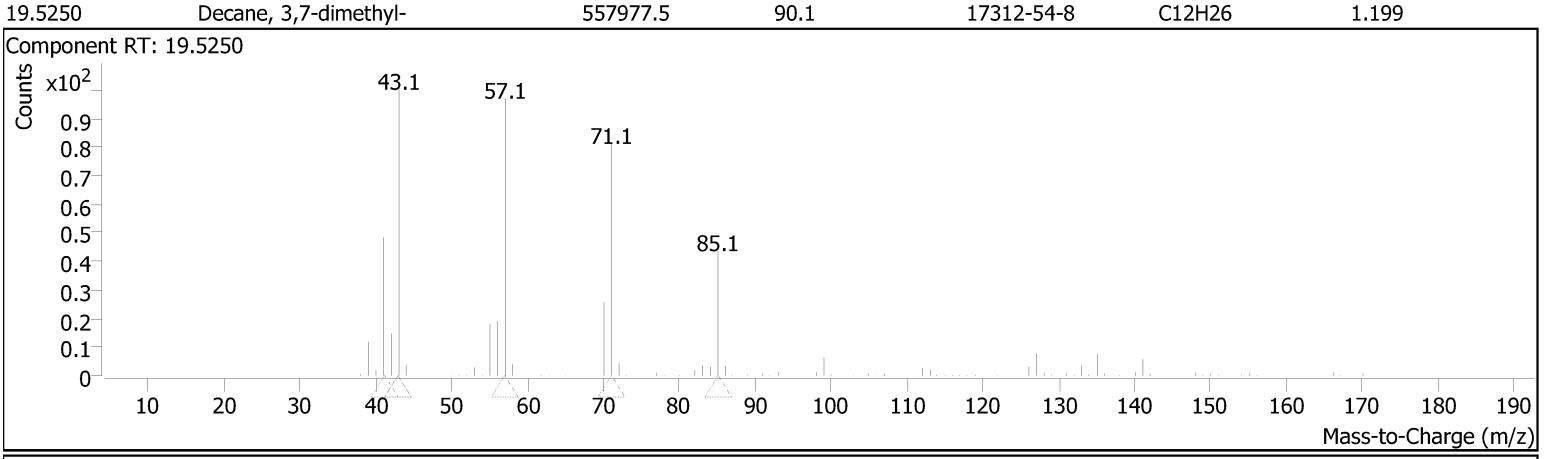



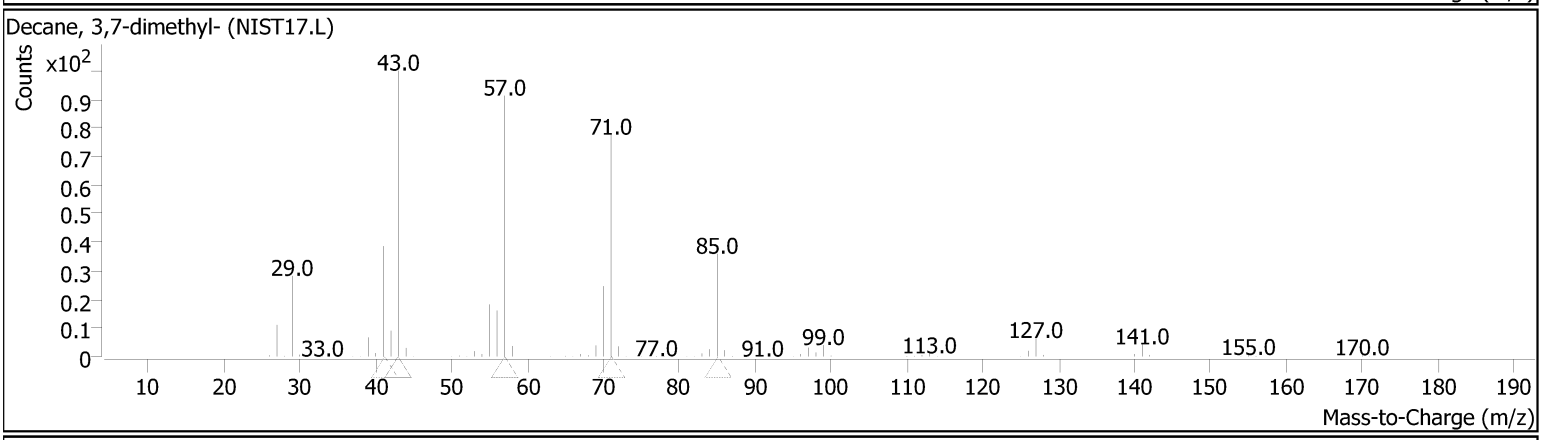



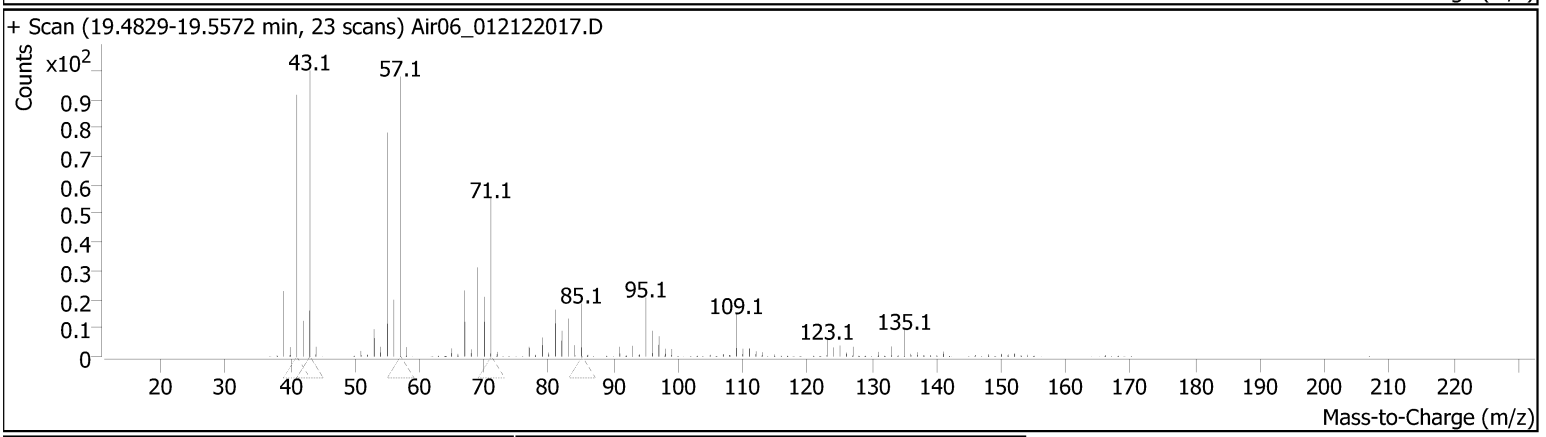



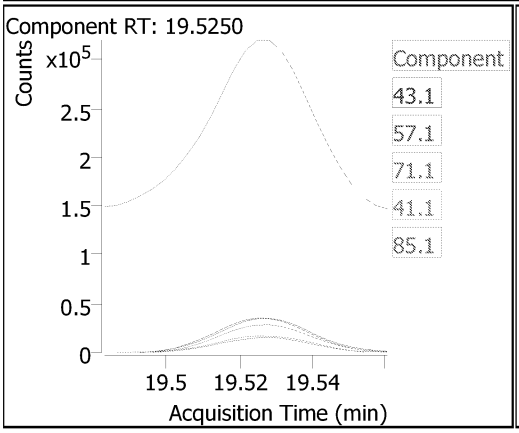



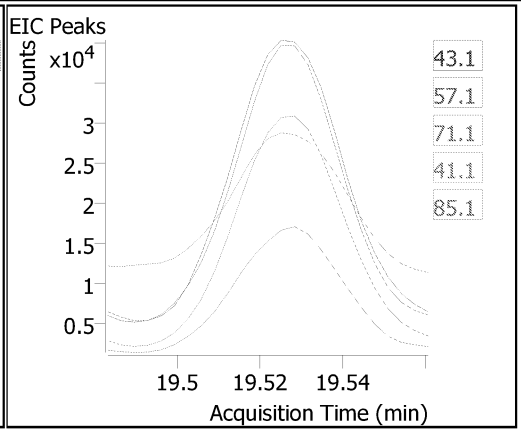
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5250 | Decane, 3,7-dimethyl- | 557977.5 | 90.1 | 17312-54-8 | C12H26 | 1.199 |

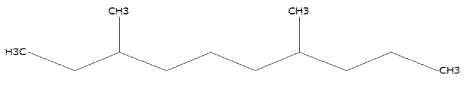


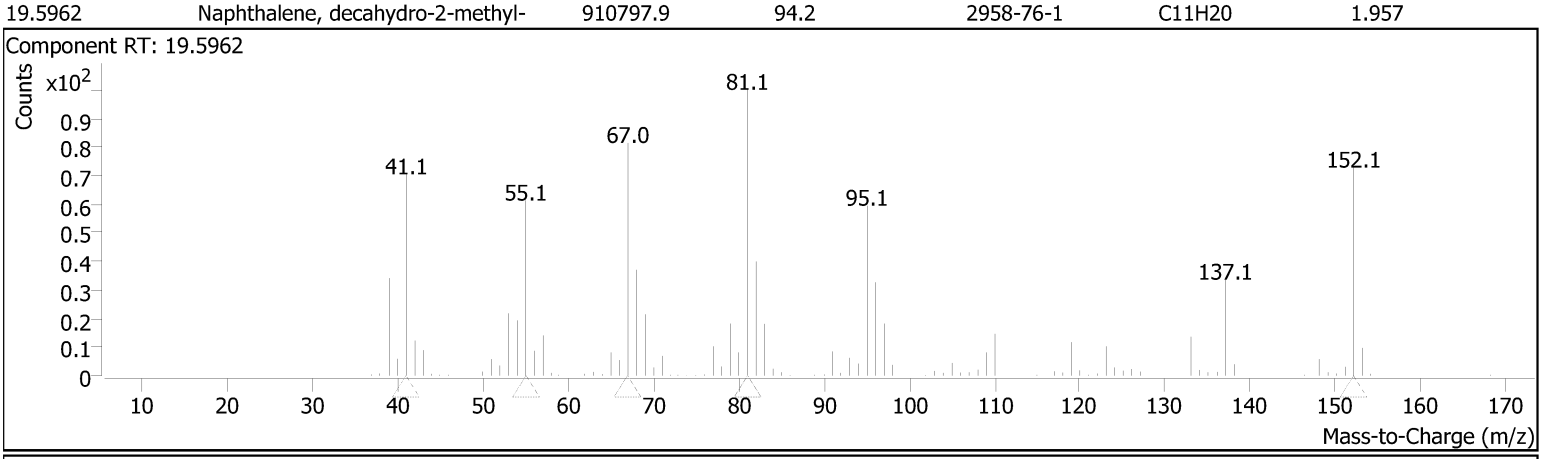



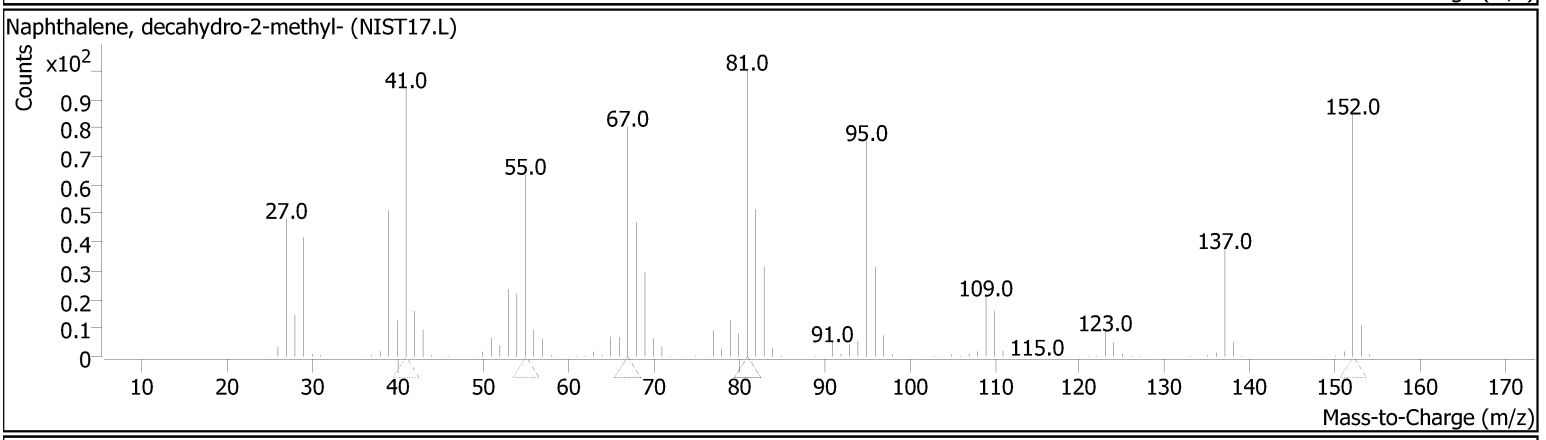



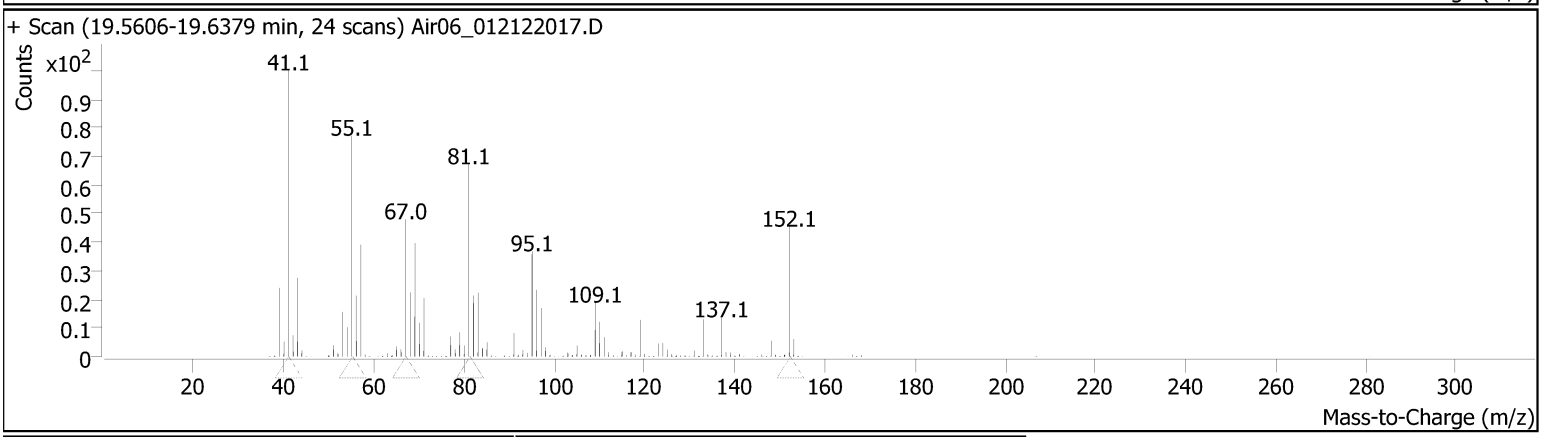
# Library Search Results - NonTarget Hits with Details

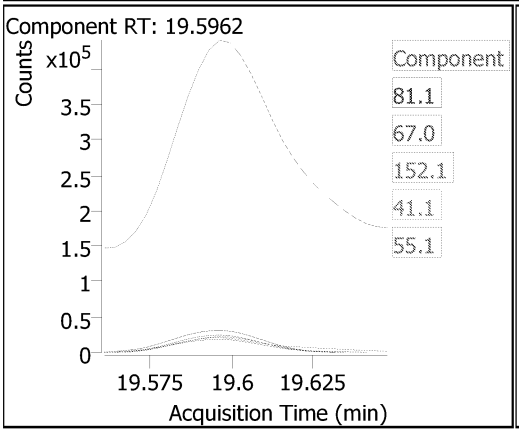
Agilent Technologies

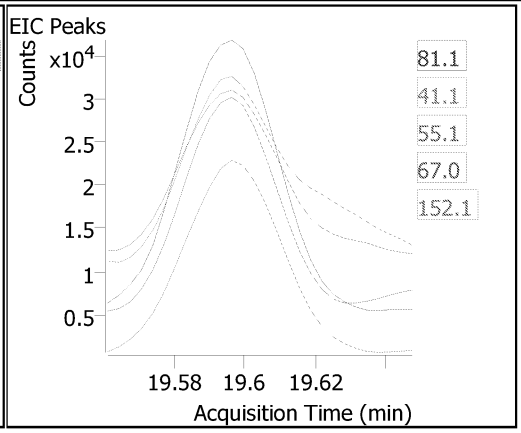
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5962 | Naphthalene, decahydro-2-methyl- | 910797.9 | 94.2 | 2958-76-1 | C11H20 | 1.957 |

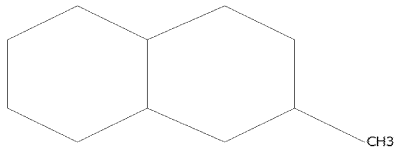


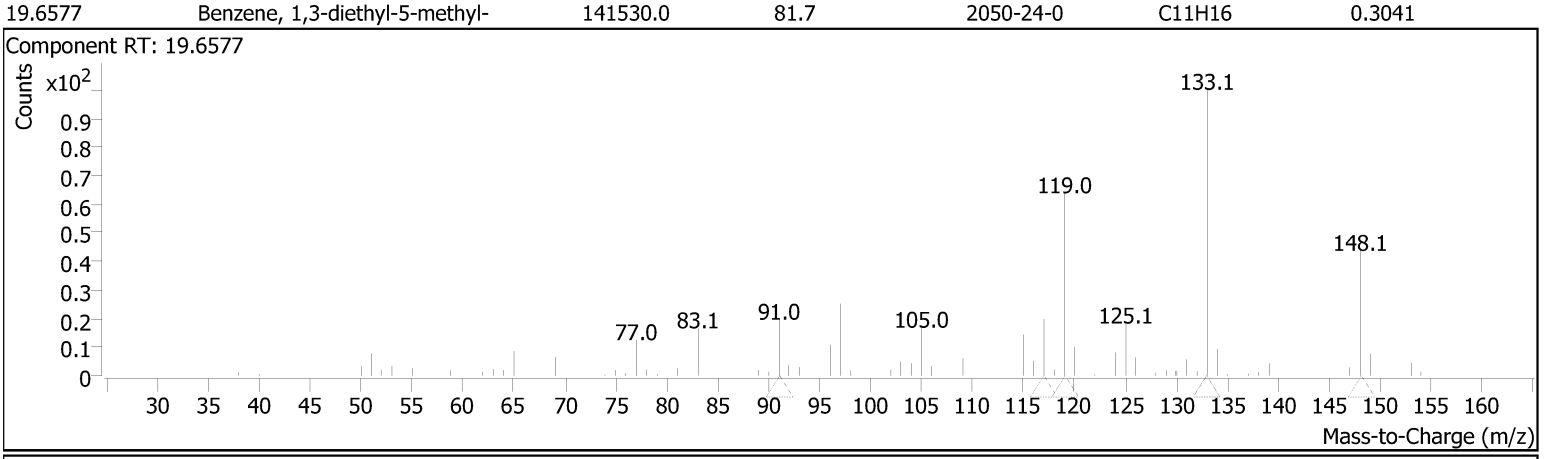



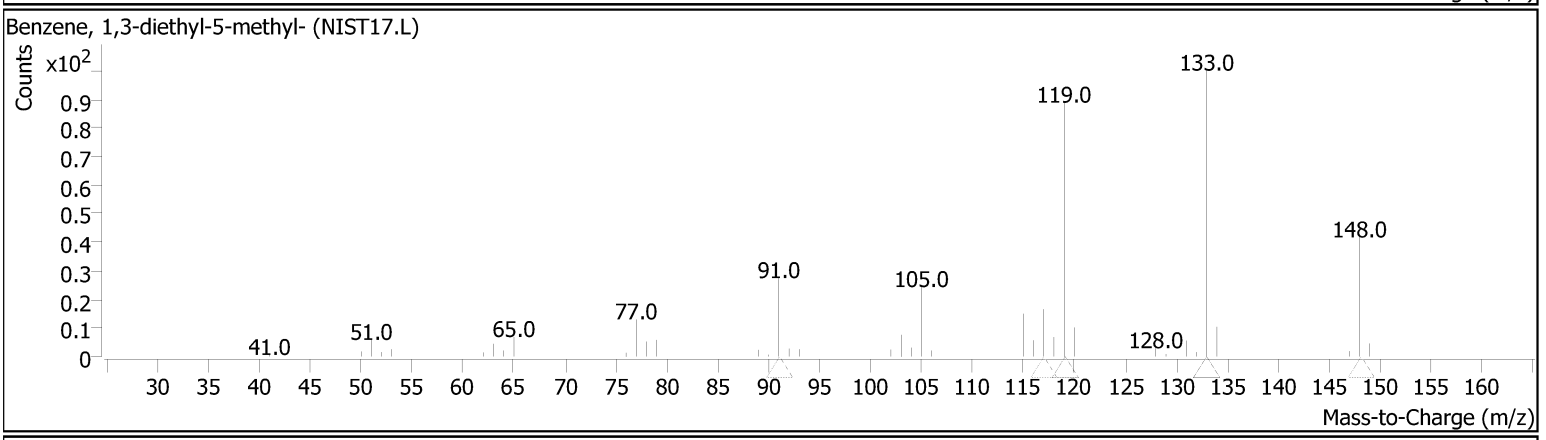



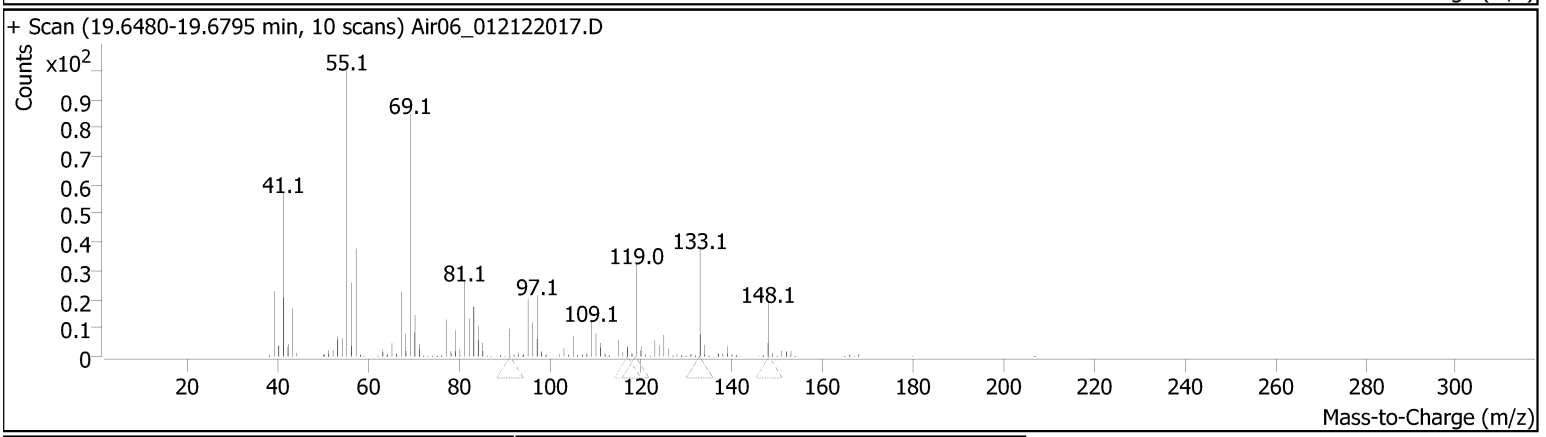



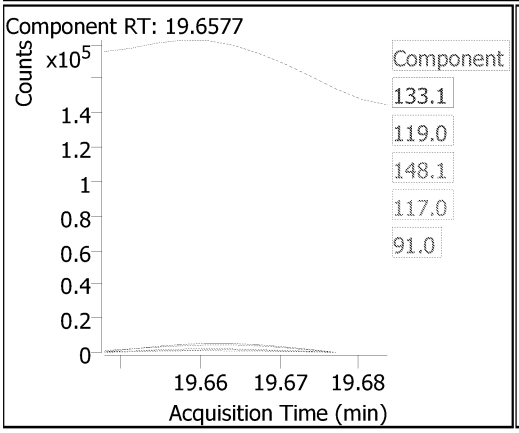



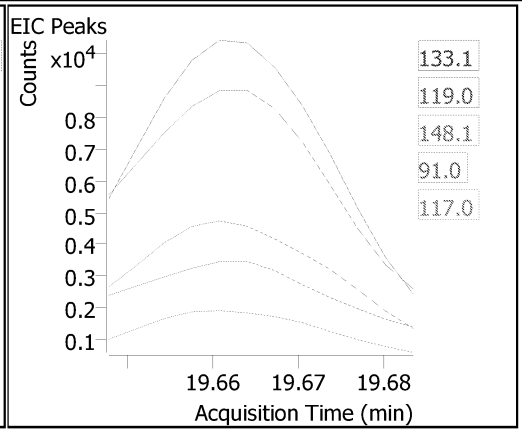
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.6577 | Benzene, 1,3-diethyl-5-methyl- | 141530.0 | 81.7 | 2050-24-0 | C11H16 | 0.3041 |

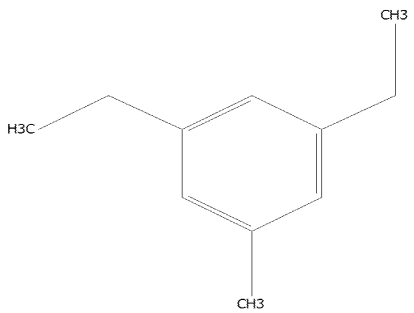


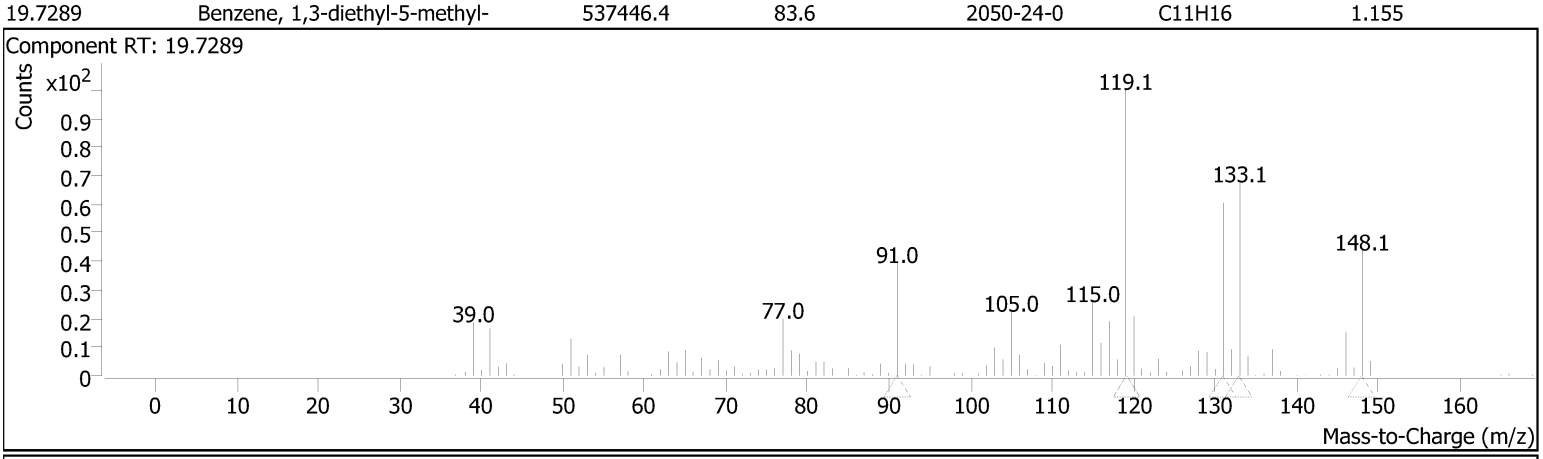



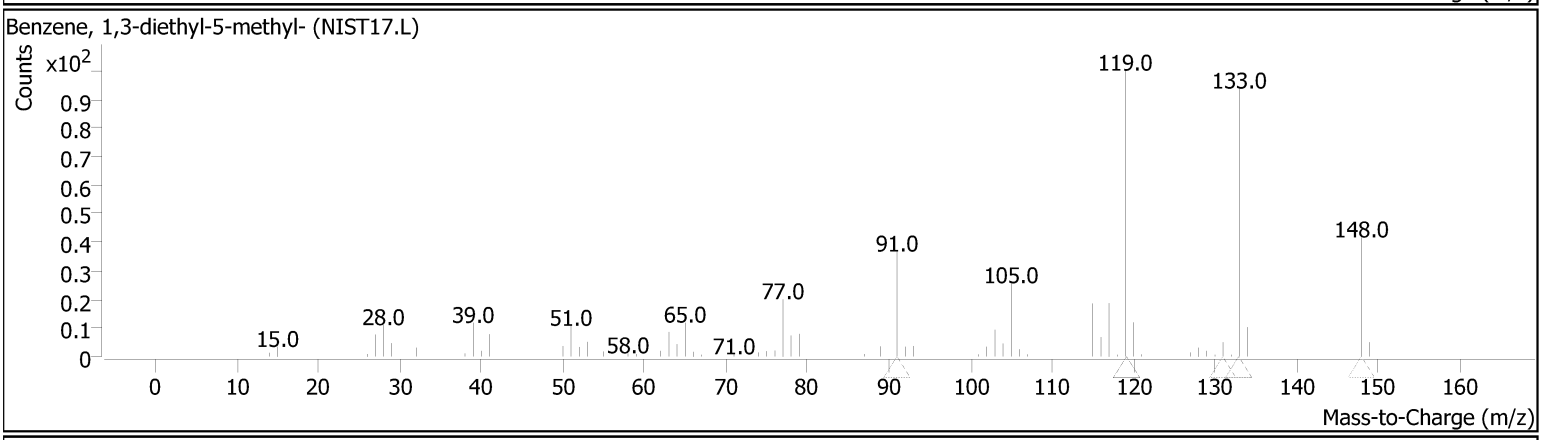



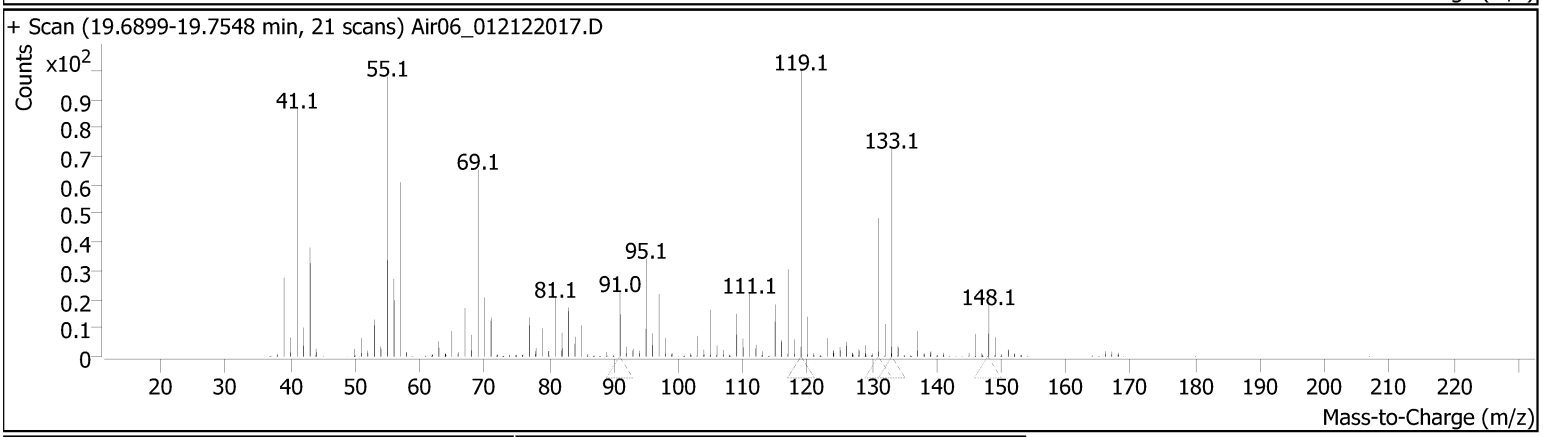
# Library Search Results - NonTarget Hits with Details

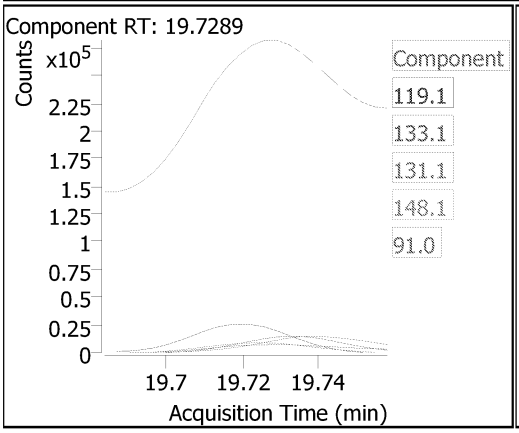
Agilent Technologies

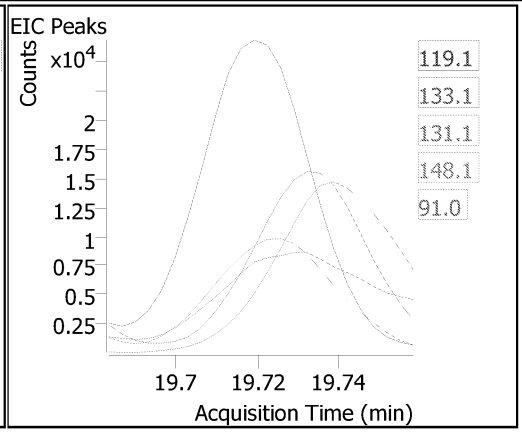
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.7289 | Benzene, 1,3-diethyl-5-methyl- | 537446.4 | 83.6 | 2050-24-0 | C11H16 | 1.155 |

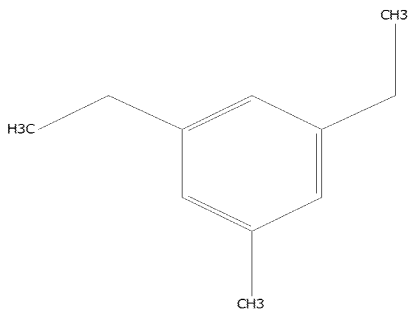


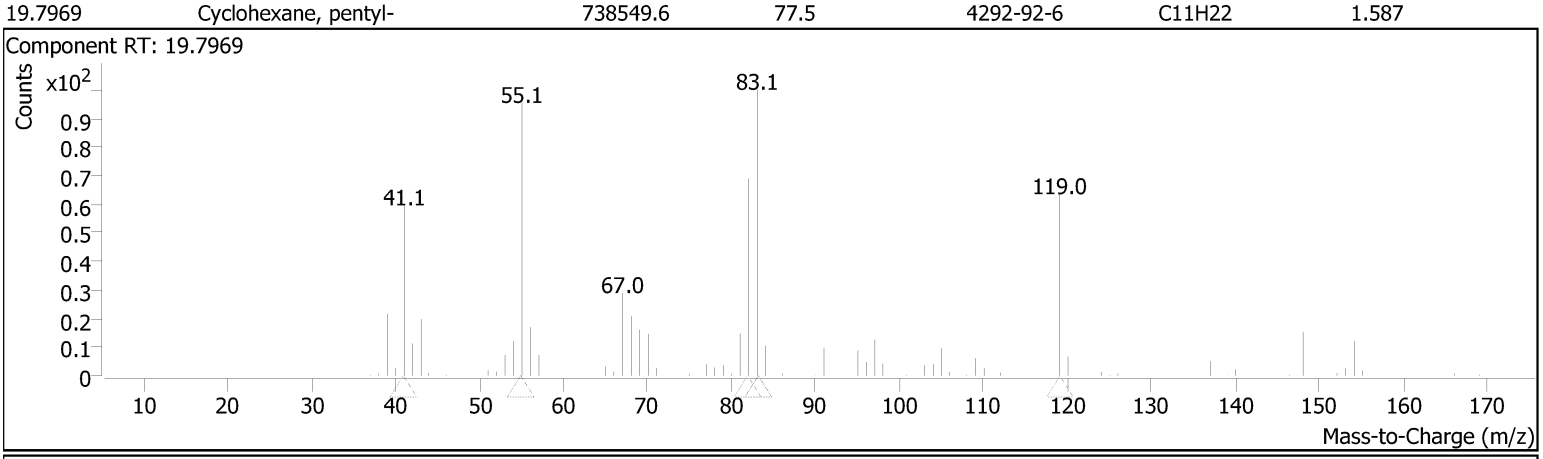



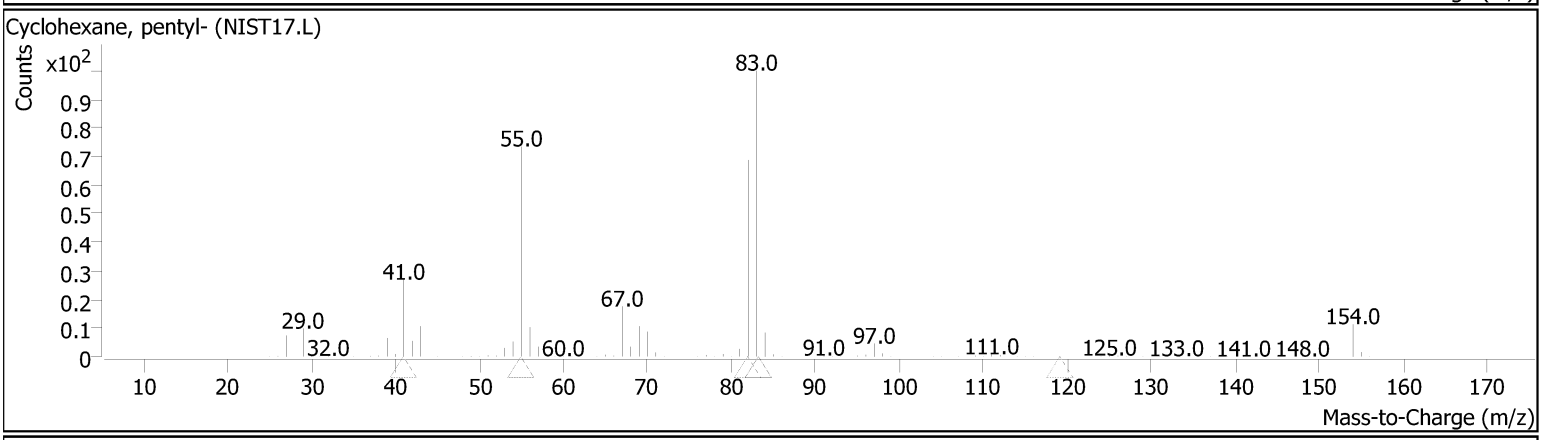



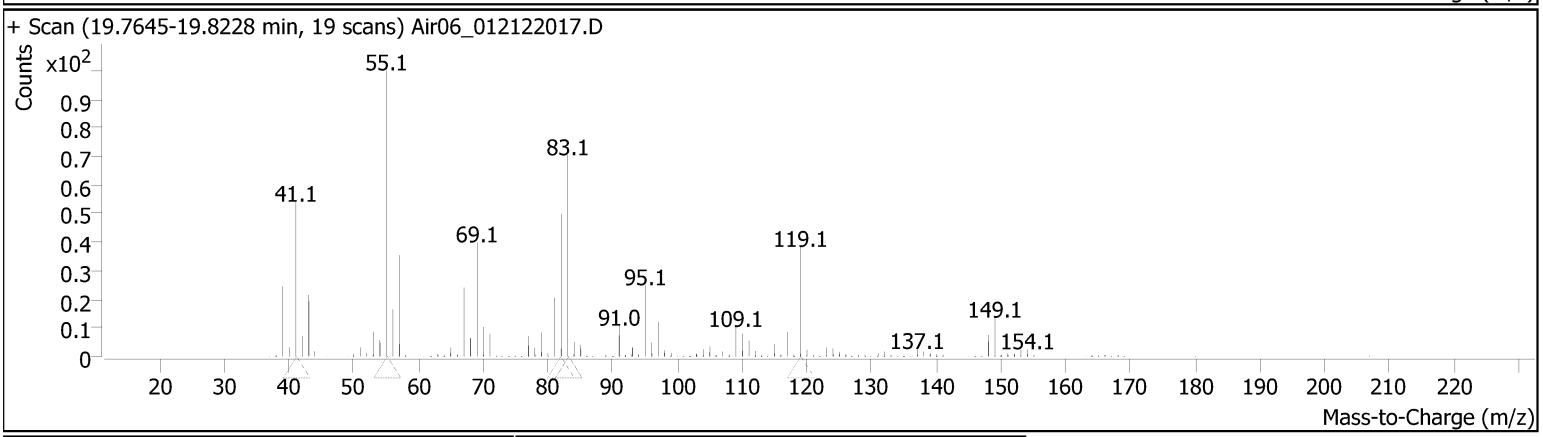



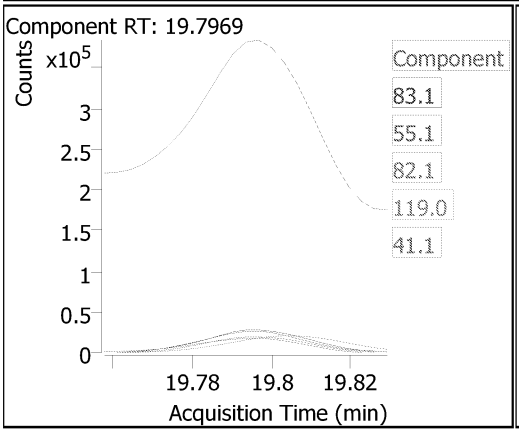



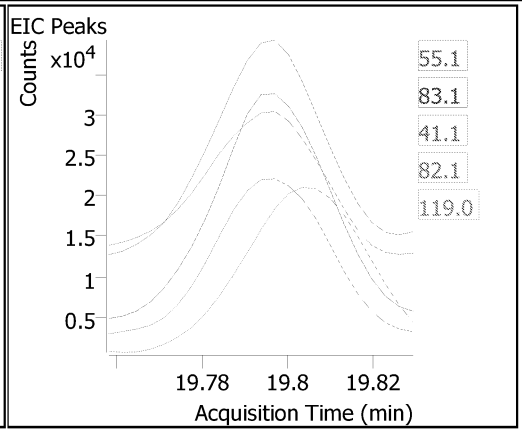
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.7969 | Cyclohexane, pentyl- | 738549.6 | 77.5 | 4292-92-6 | C11H22 | 1.587 |

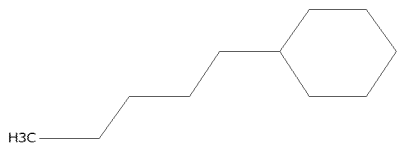


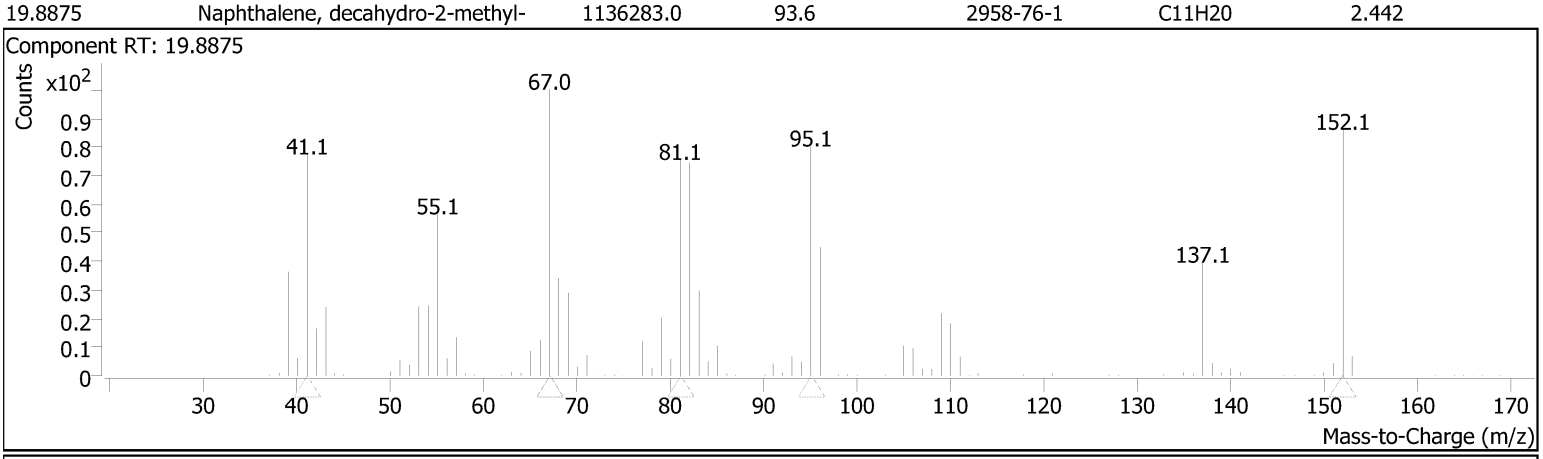



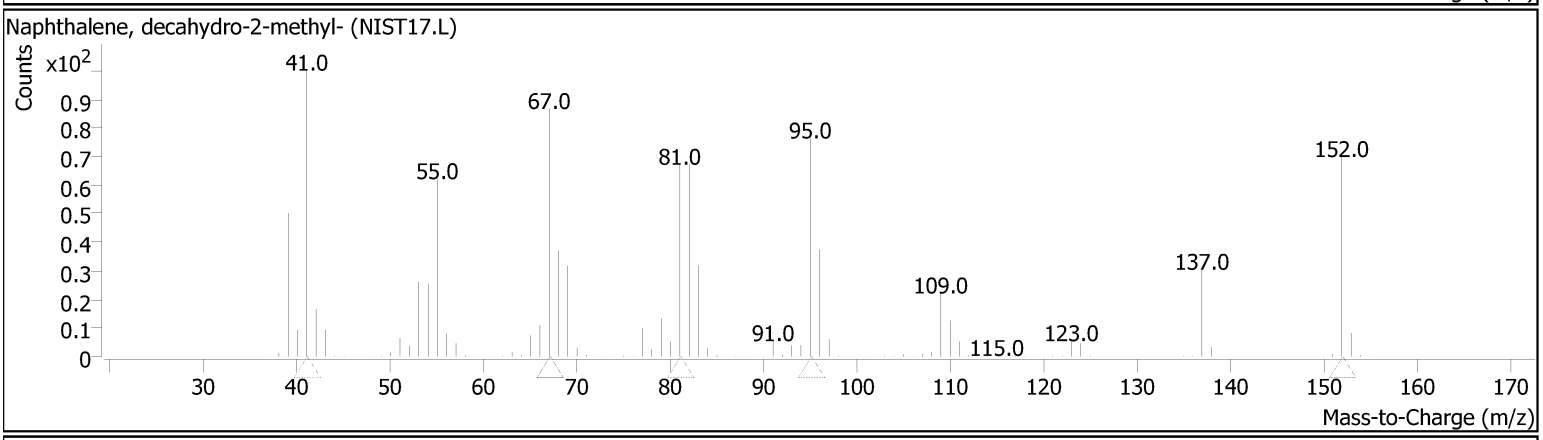



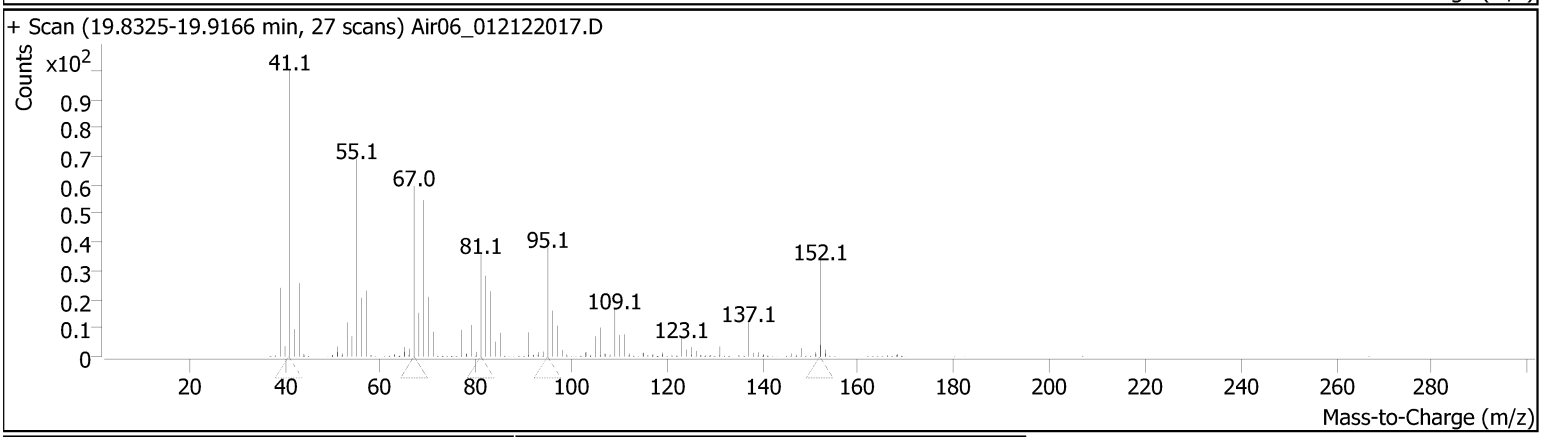



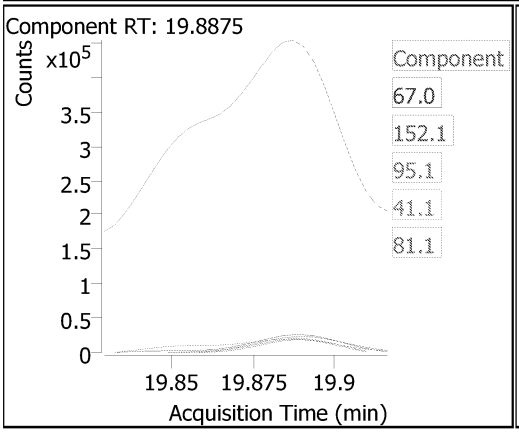



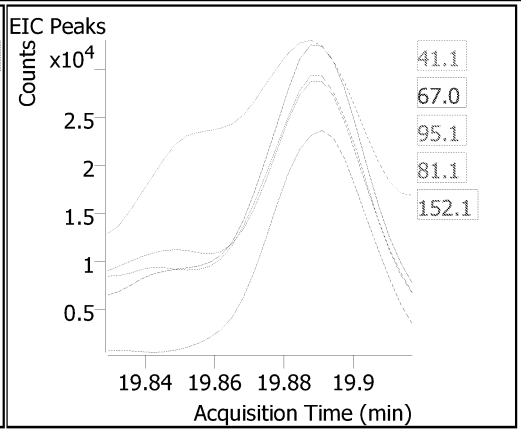
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.8875 | Naphthalene, decahydro-2-methyl- | 1136283.0 | 93.6 | 2958-76-1 | C11H20 | 2.442 |

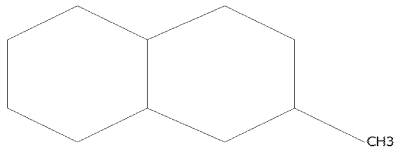


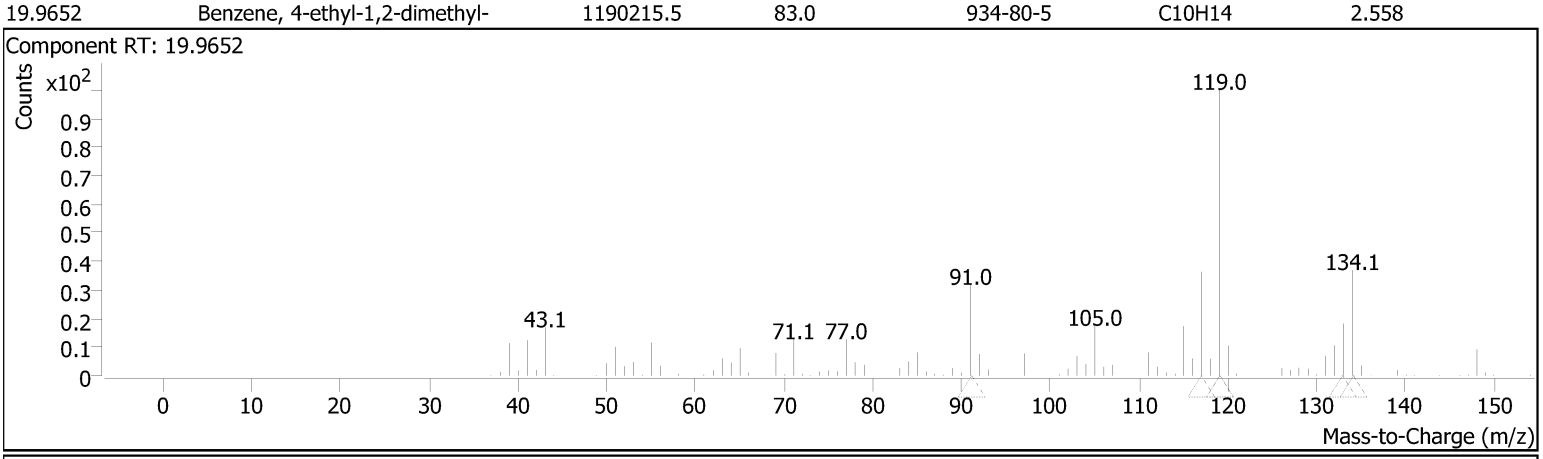



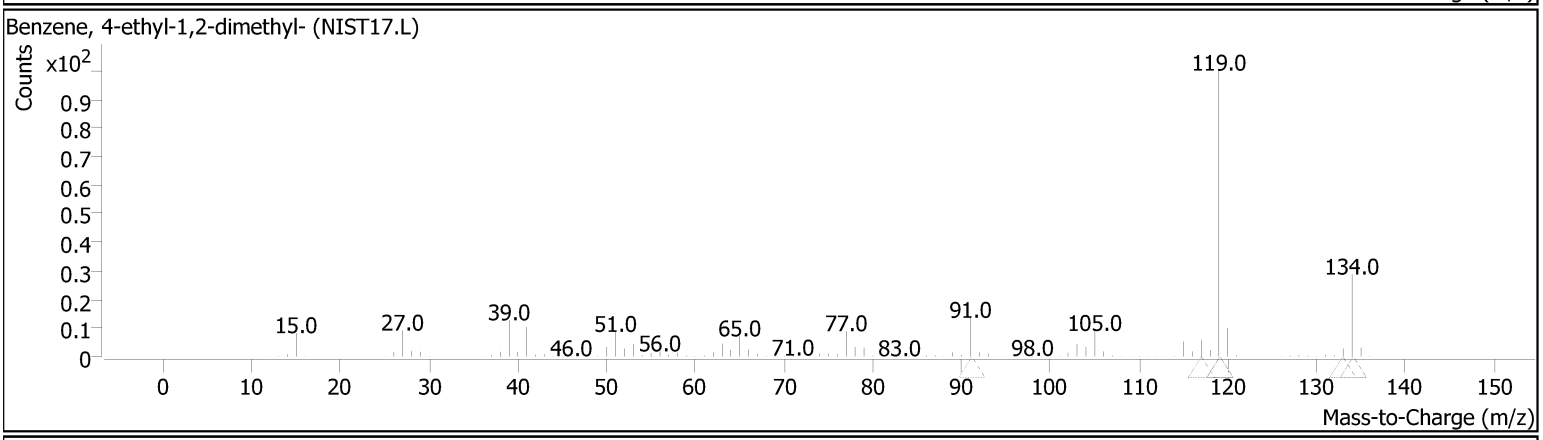



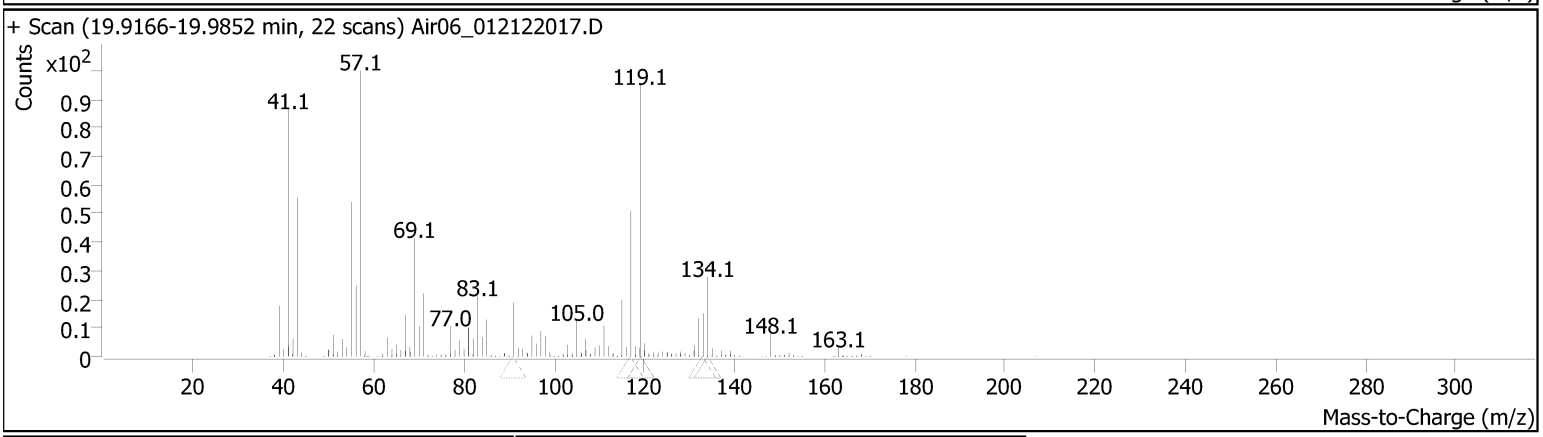



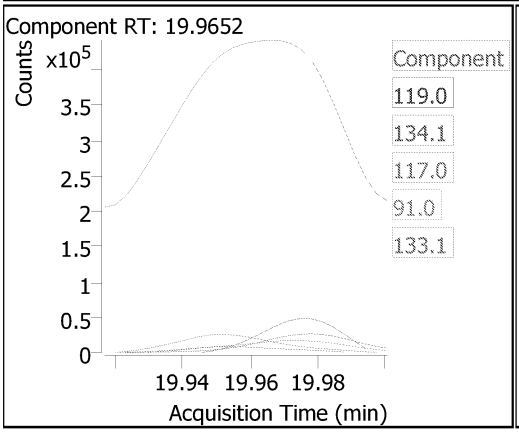



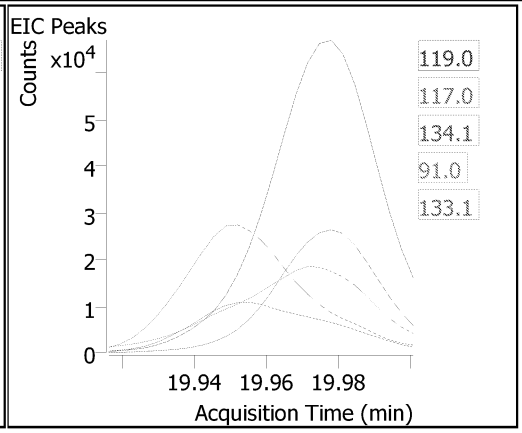
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.9652 | Benzene, 4-ethyl-1,2-dimethyl- | 1190215.5 | 83.0 | 934-80-5 | C10H14 | 2.558 |

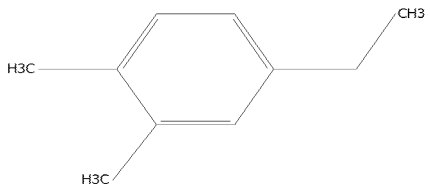


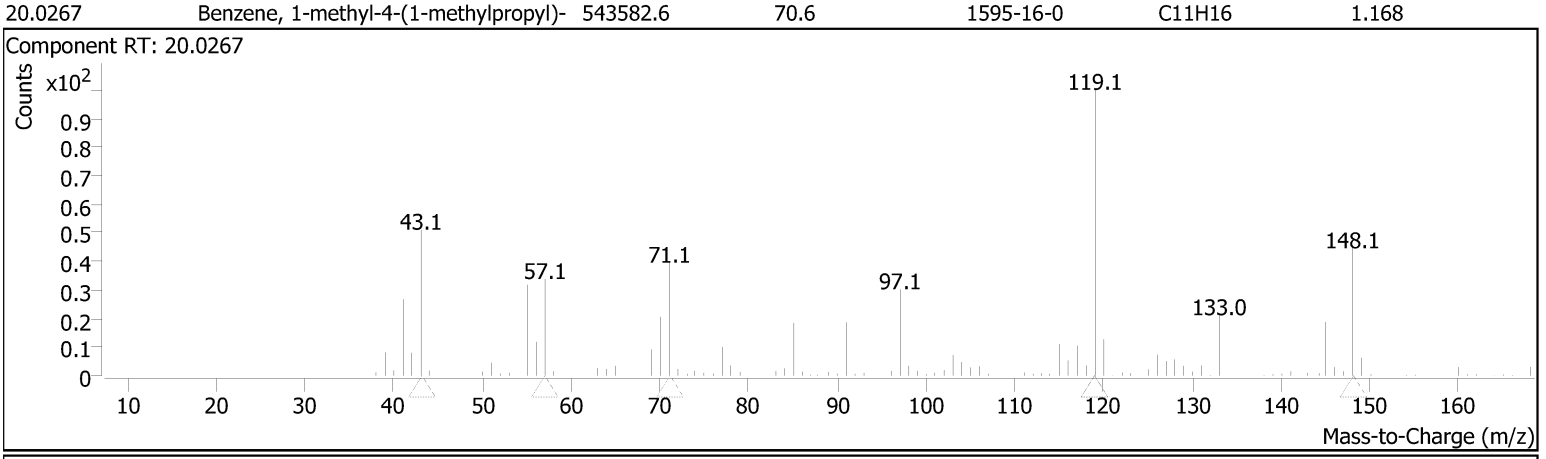



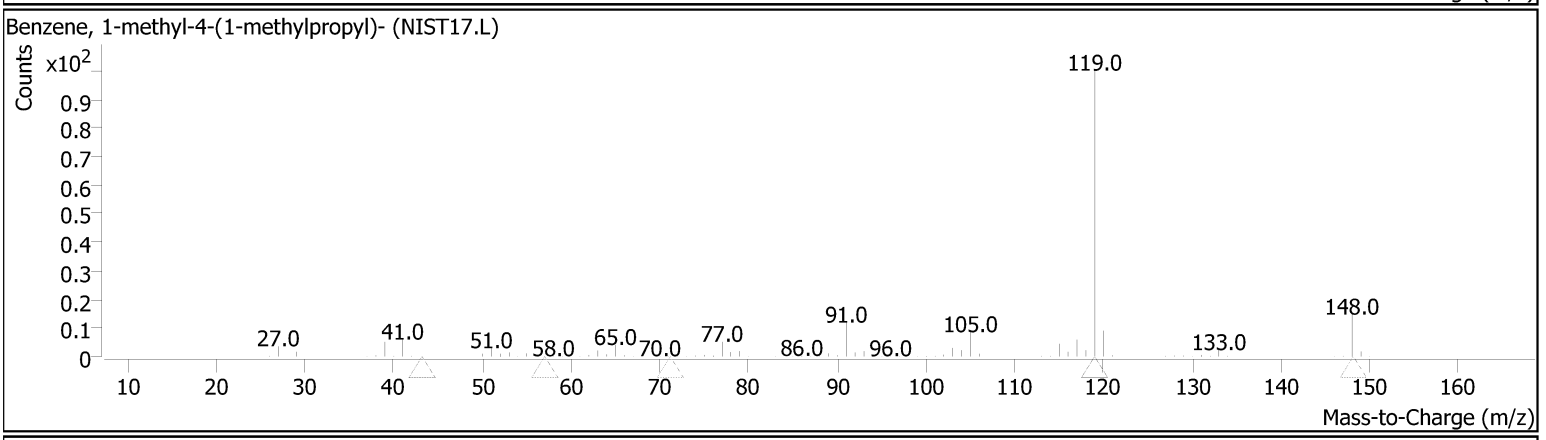



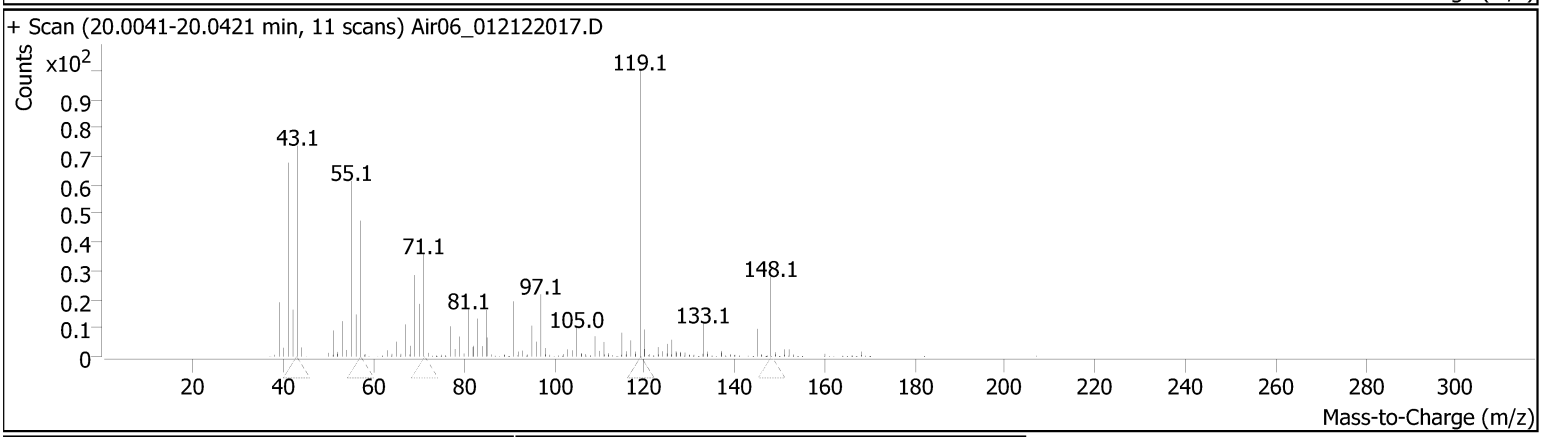



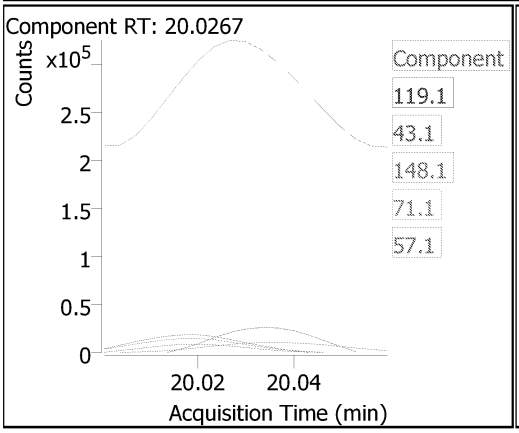



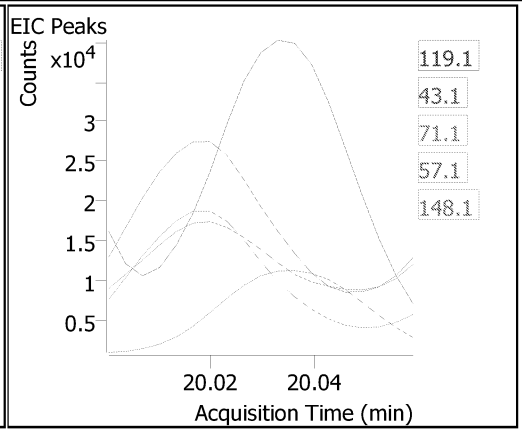
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0267 | Benzene, 1-methyl-4-(1-methylpropyl)- | 543582.6 | 70.6 | 1595-16-0 | C11H16 | 1.168 |

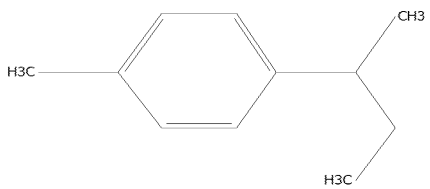


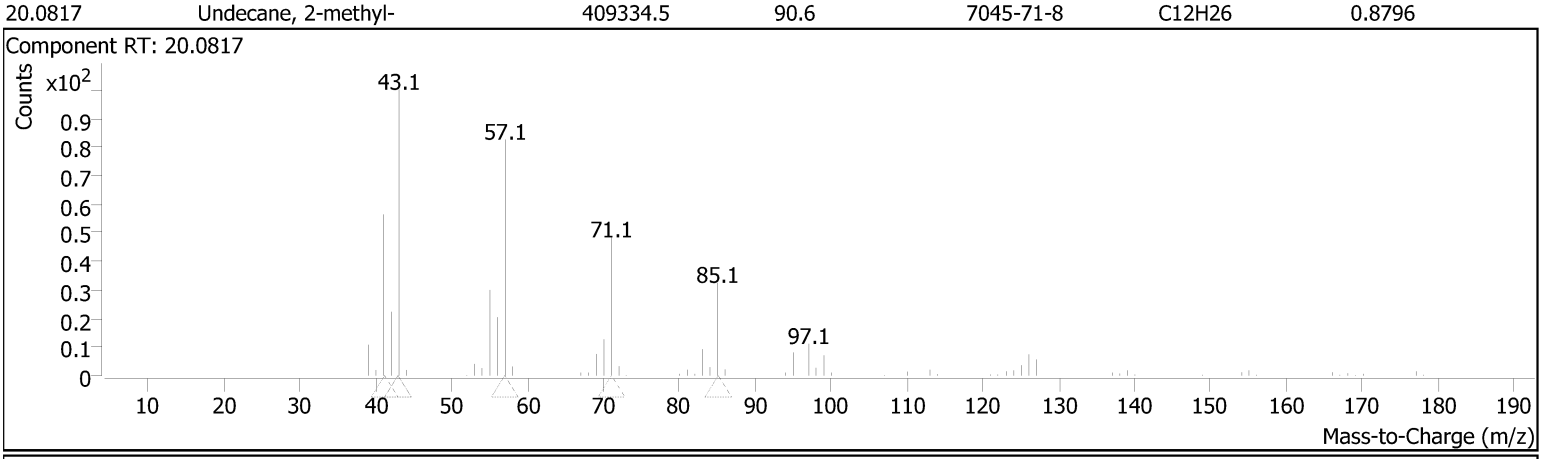



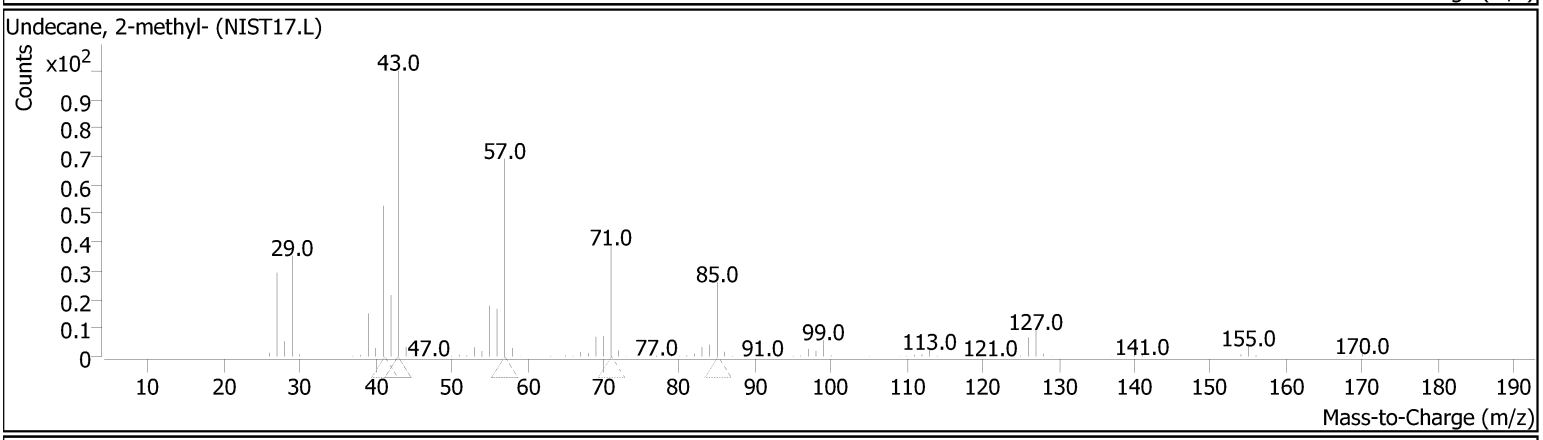



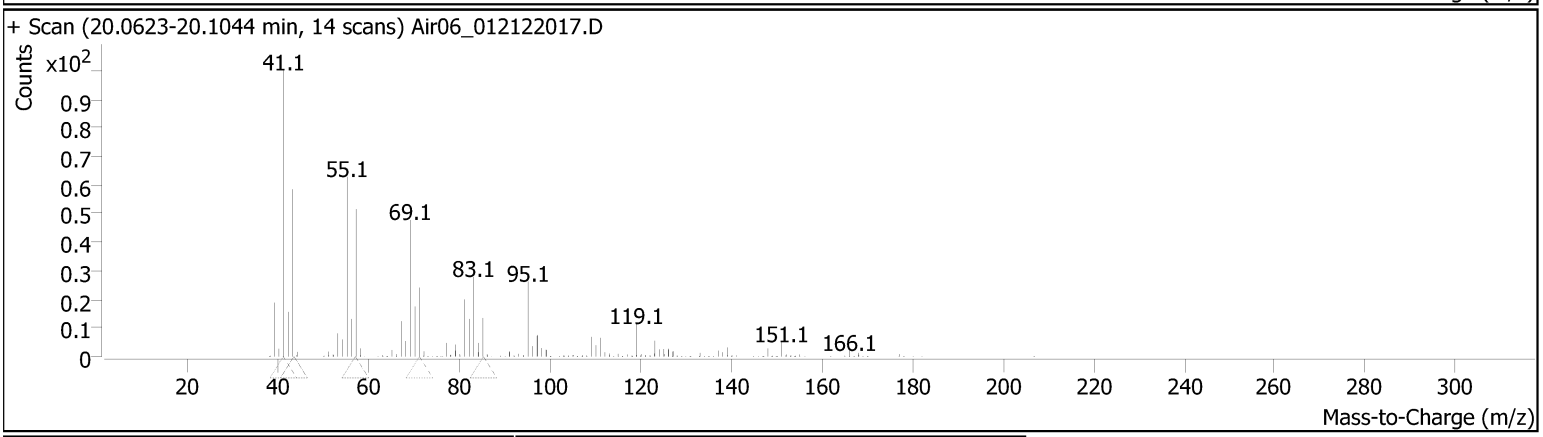



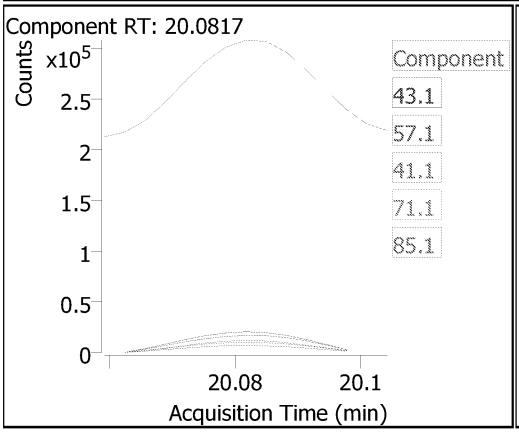



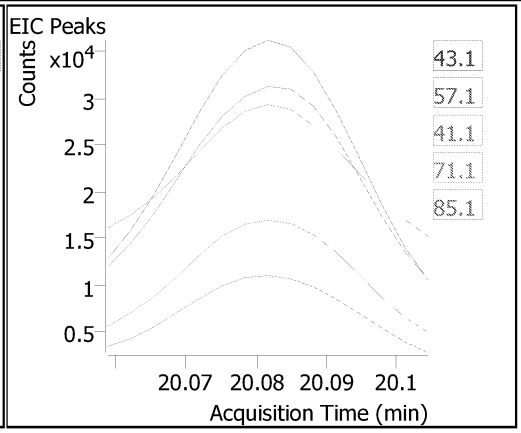
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0817 | Undecane, 2-methyl- | 409334.5 | 90.6 | 7045-71-8 | C12H26 | 0.8796 |

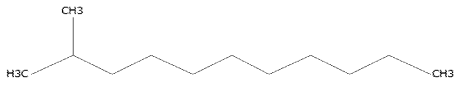


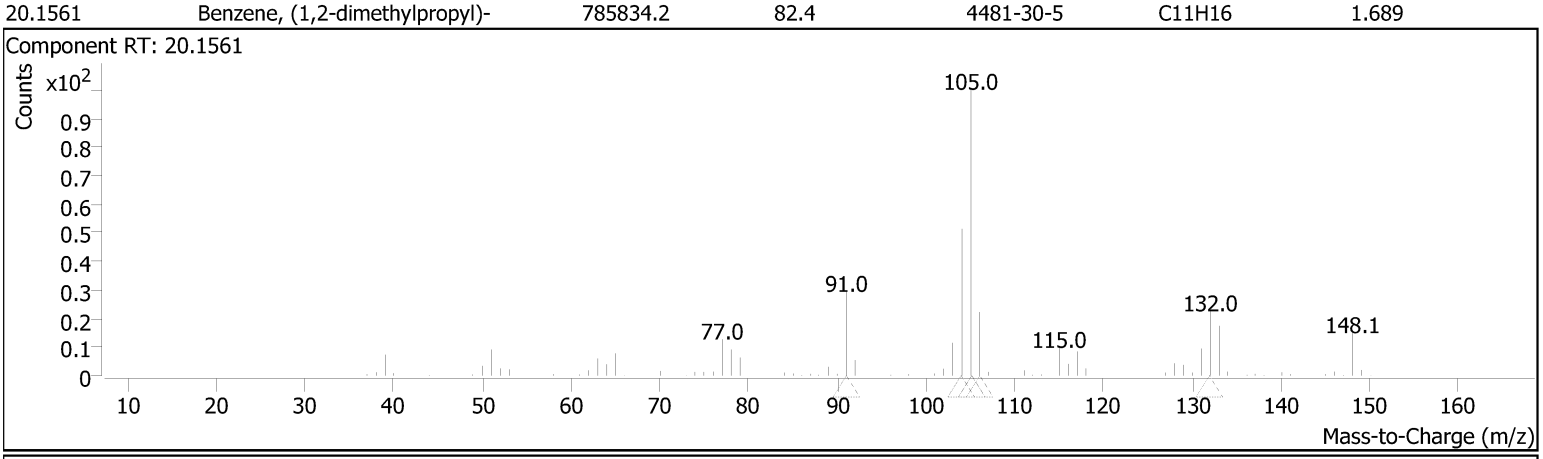



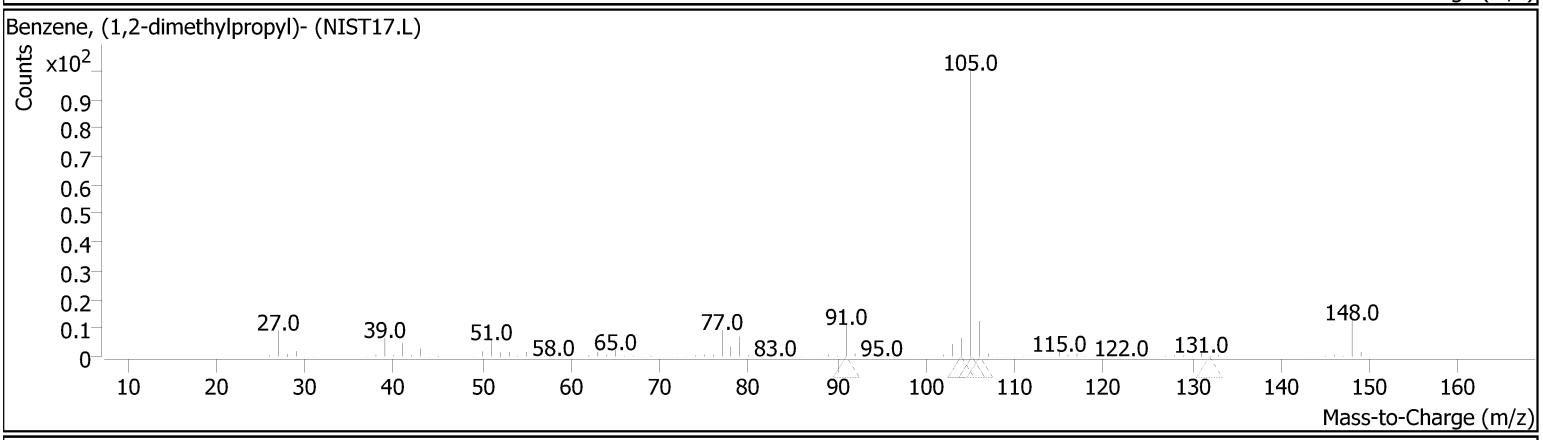



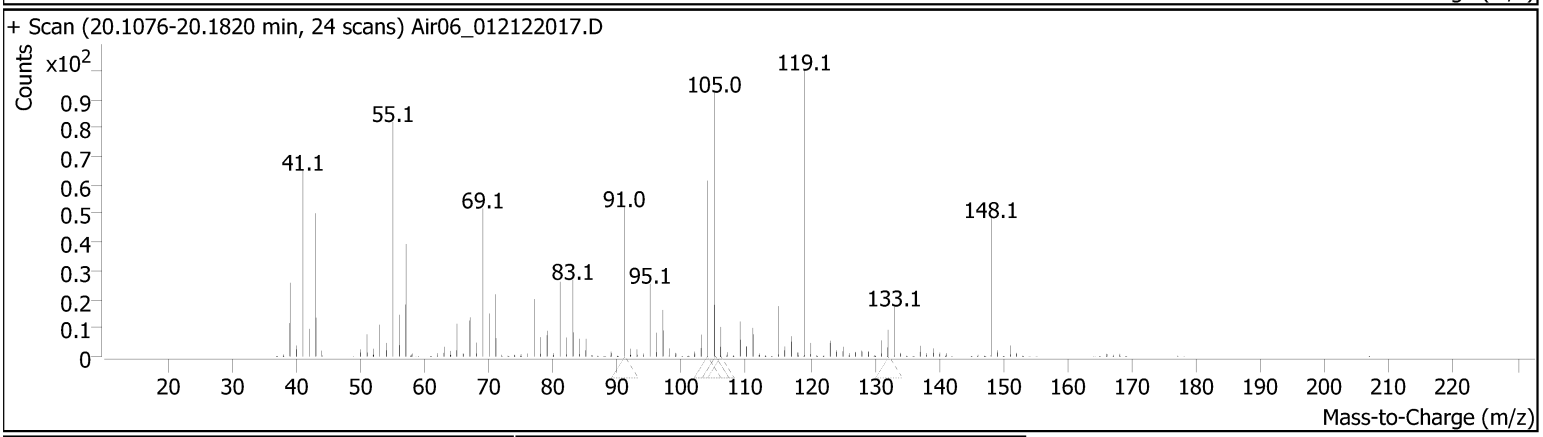



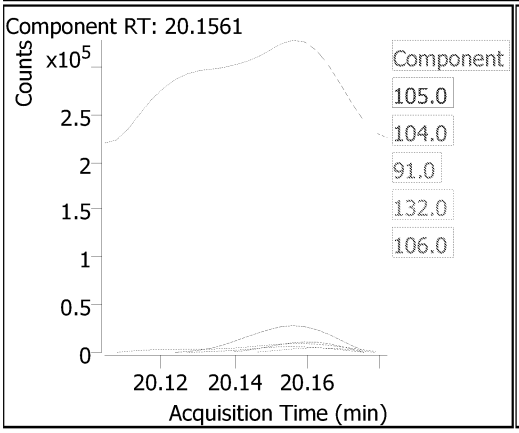



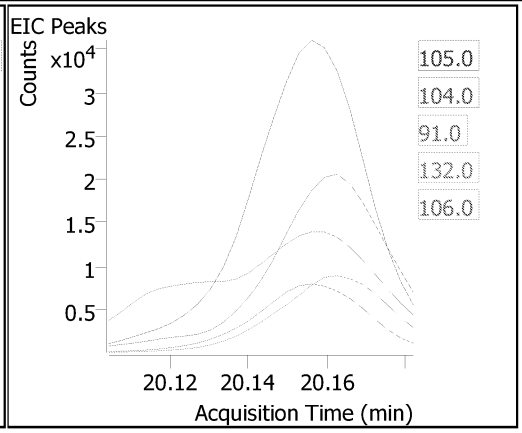
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.1561 | Benzene, (1,2-dimethylpropyl)- | 785834.2 | 82.4 | 4481-30-5 | C11H16 | 1.689 |

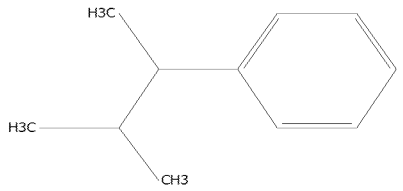


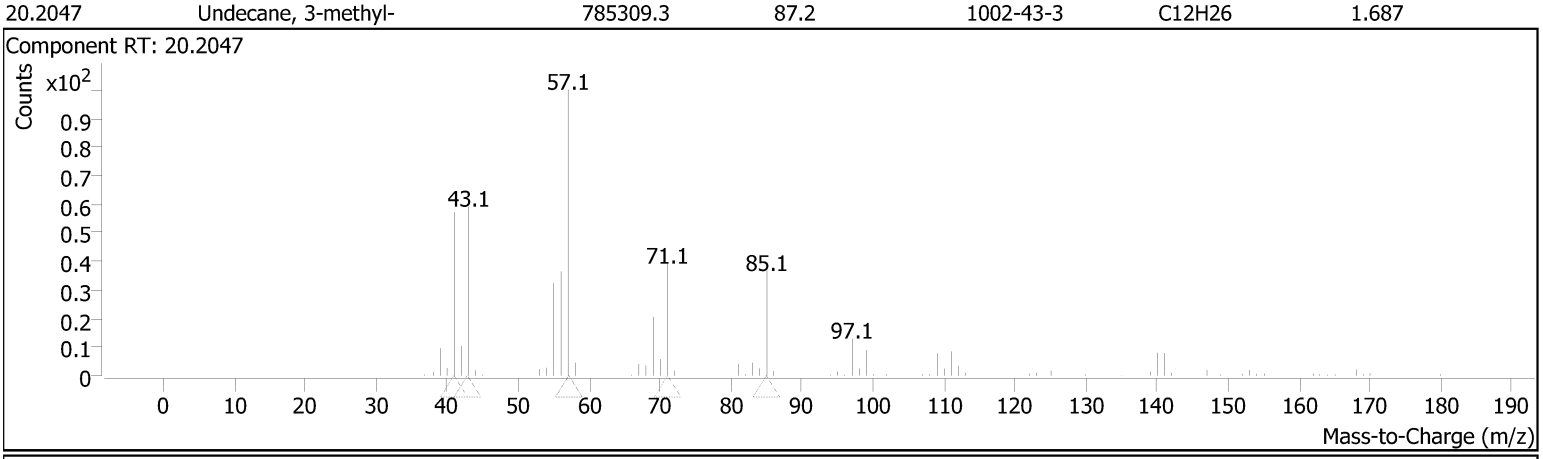



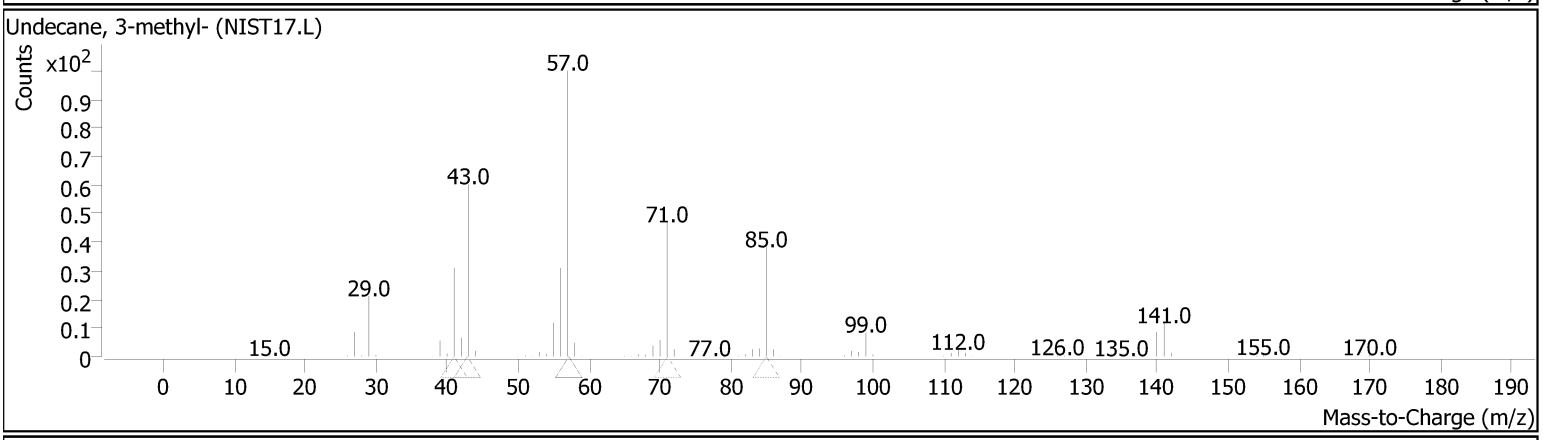



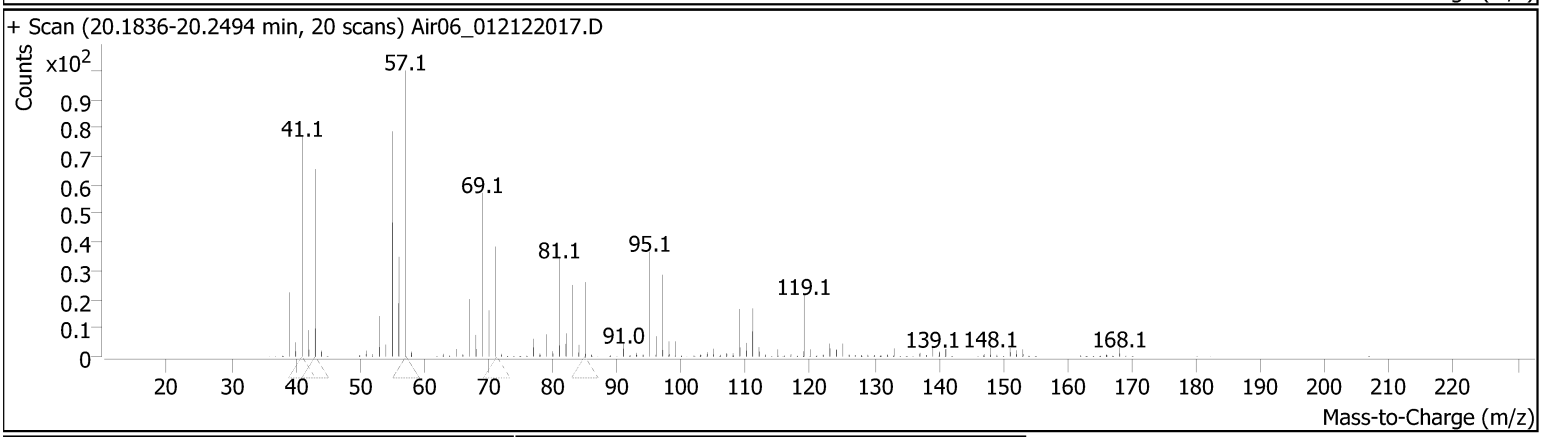
# Library Search Results - NonTarget Hits with Details

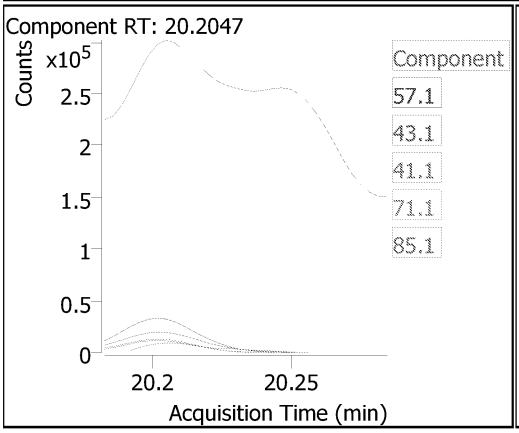
Agilent Technologies

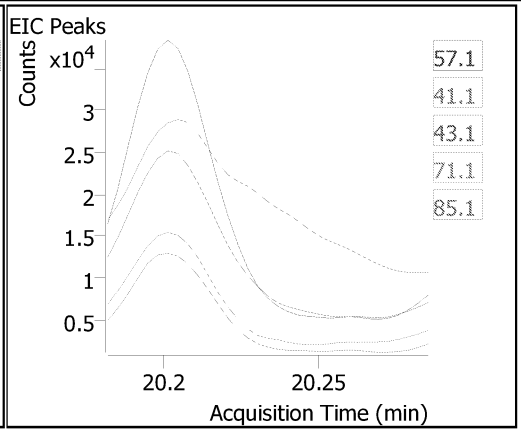
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.2047 | Undecane, 3-methyl- | 785309.3 | 87.2 | 1002-43-3 | C12H26 | 1.687 |

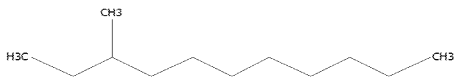


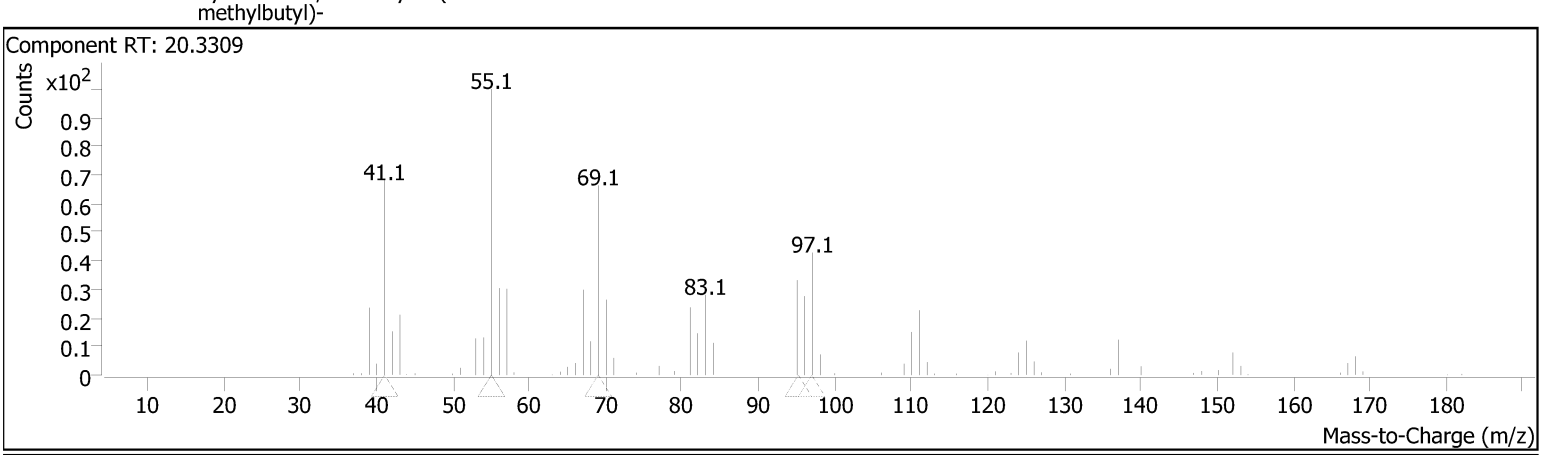



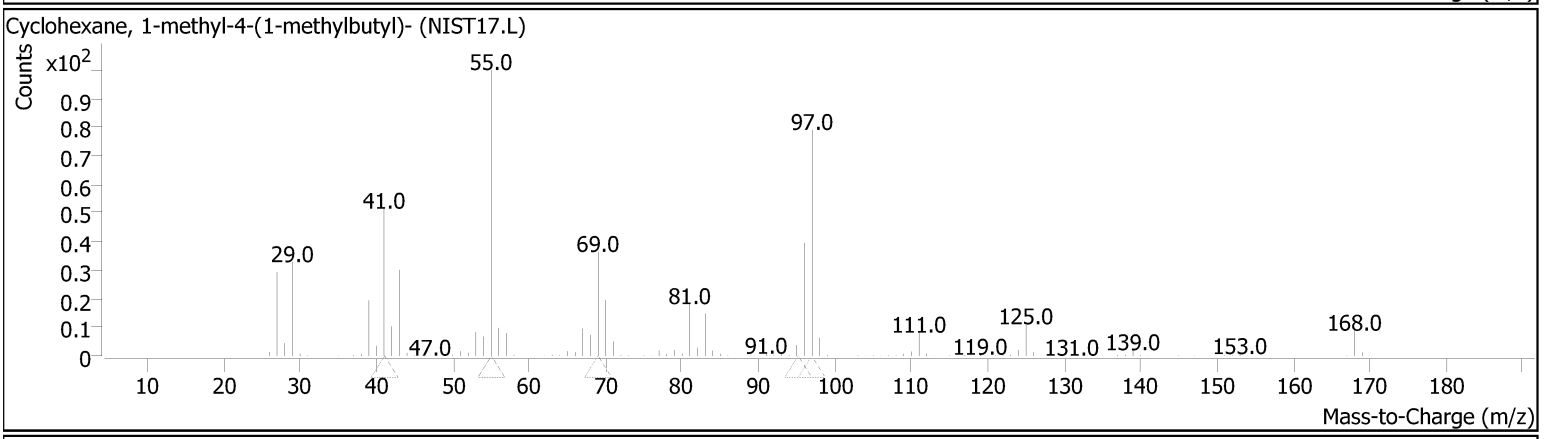



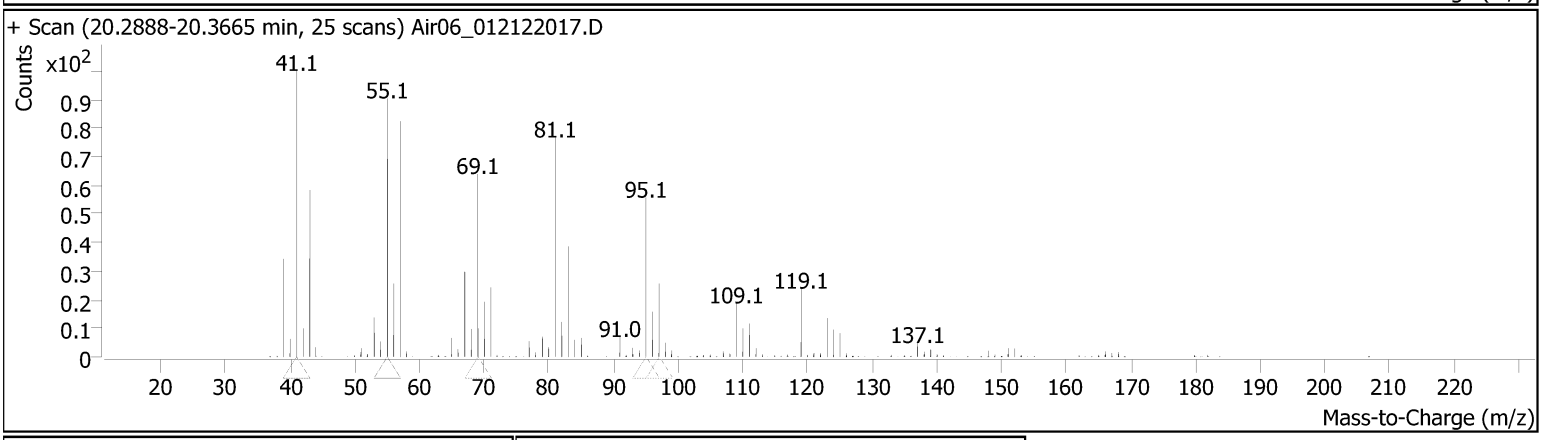



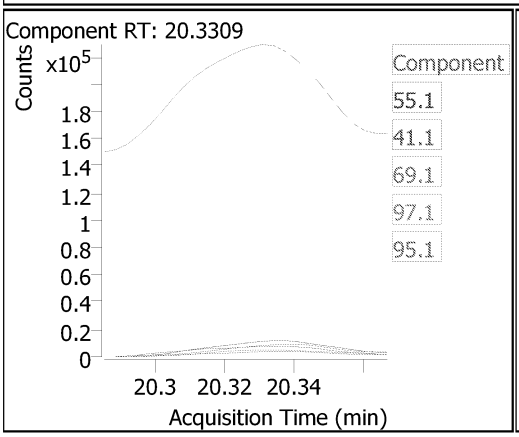



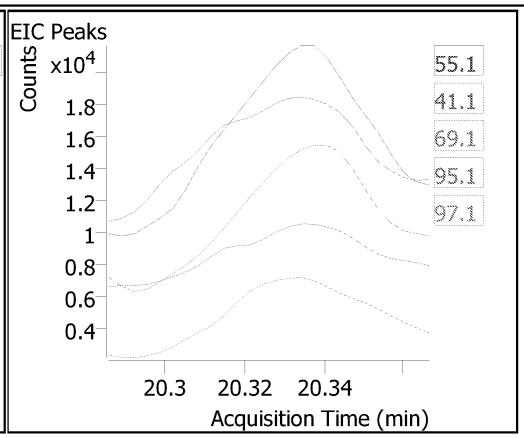
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3309 | Cyclohexane, 1-methyl-4-(1-methylbutyl)- | 368853.3 | 85.0 | 54411-00-6 | C12H24 | 0.7926 |

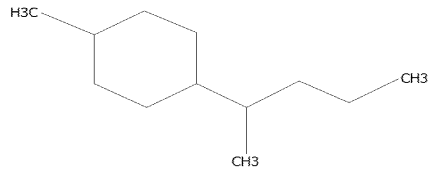


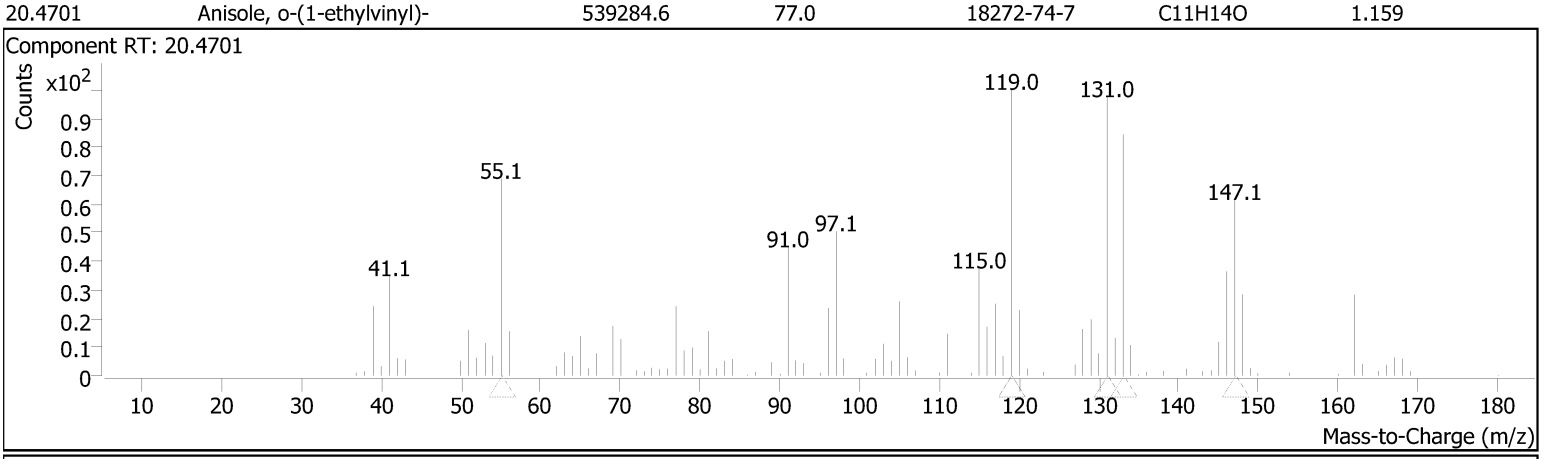



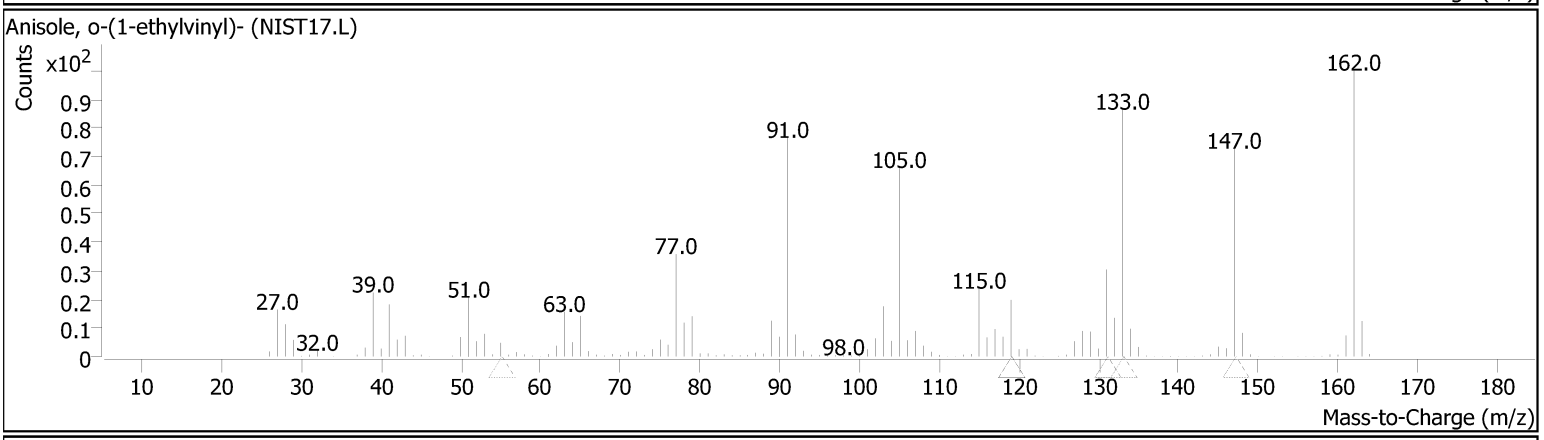



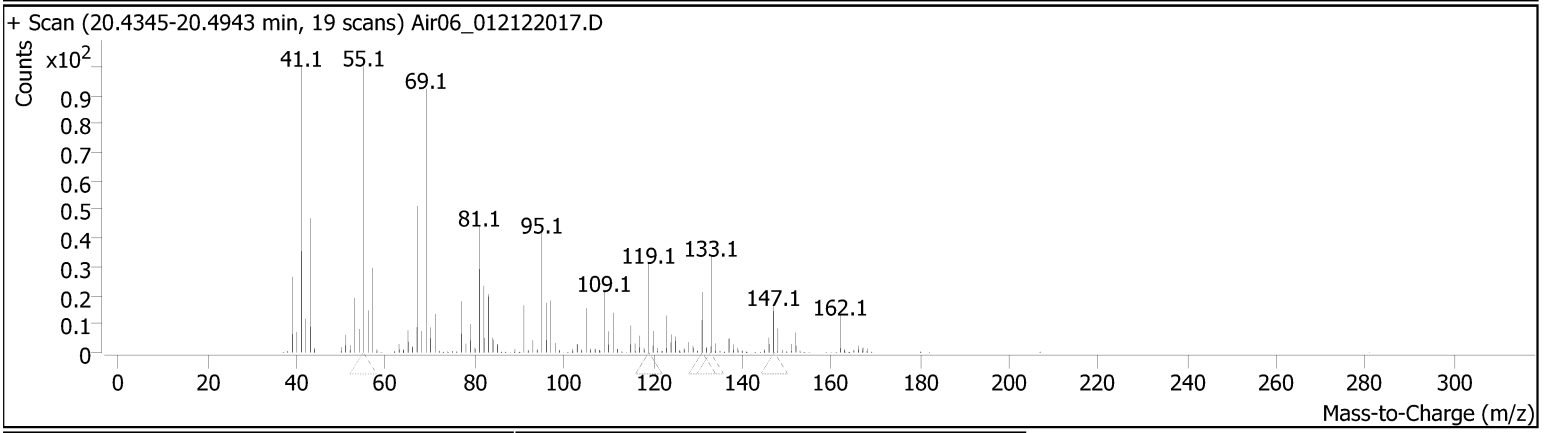



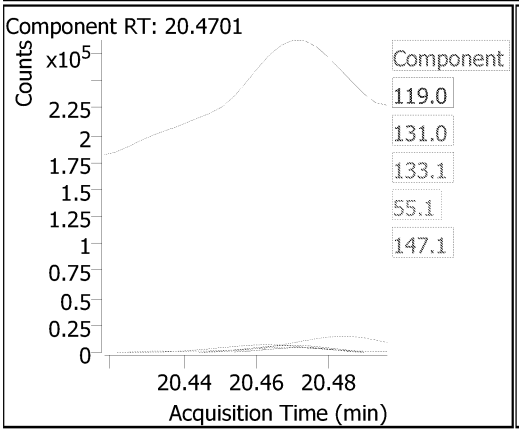



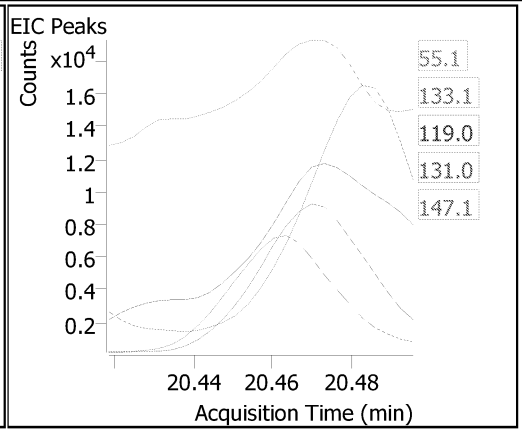
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.4701 | Anisole, o-(1-ethylvinyl)- | 539284.6 | 77.0 | 18272-74-7 | C11H14O | 1.159 |

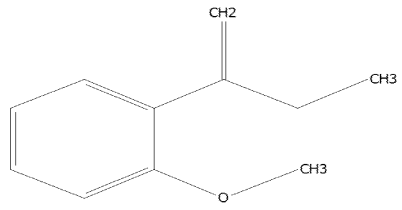


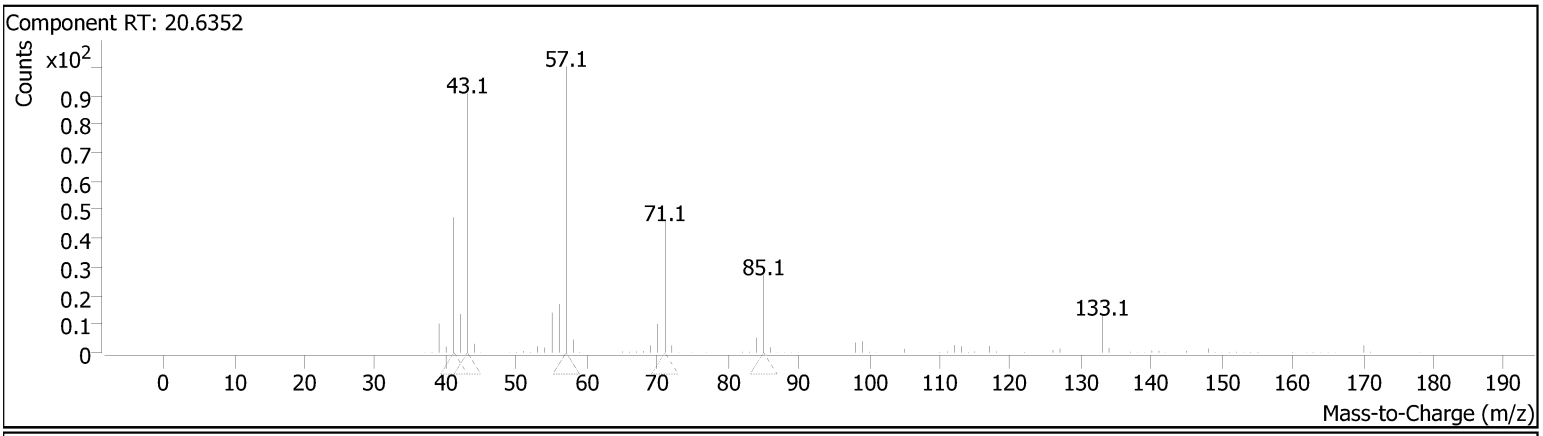



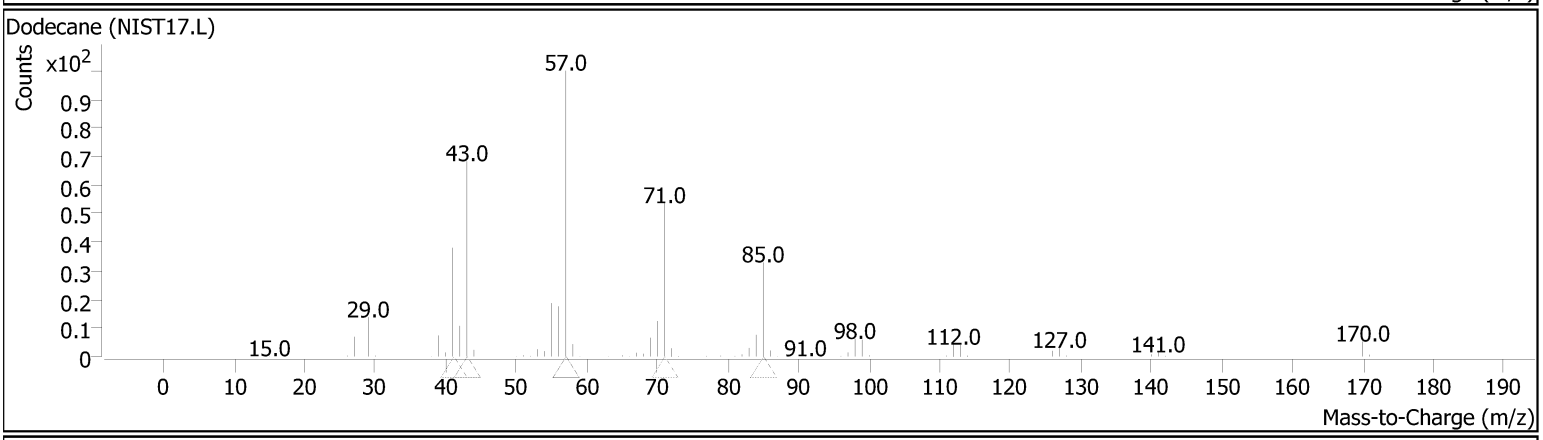



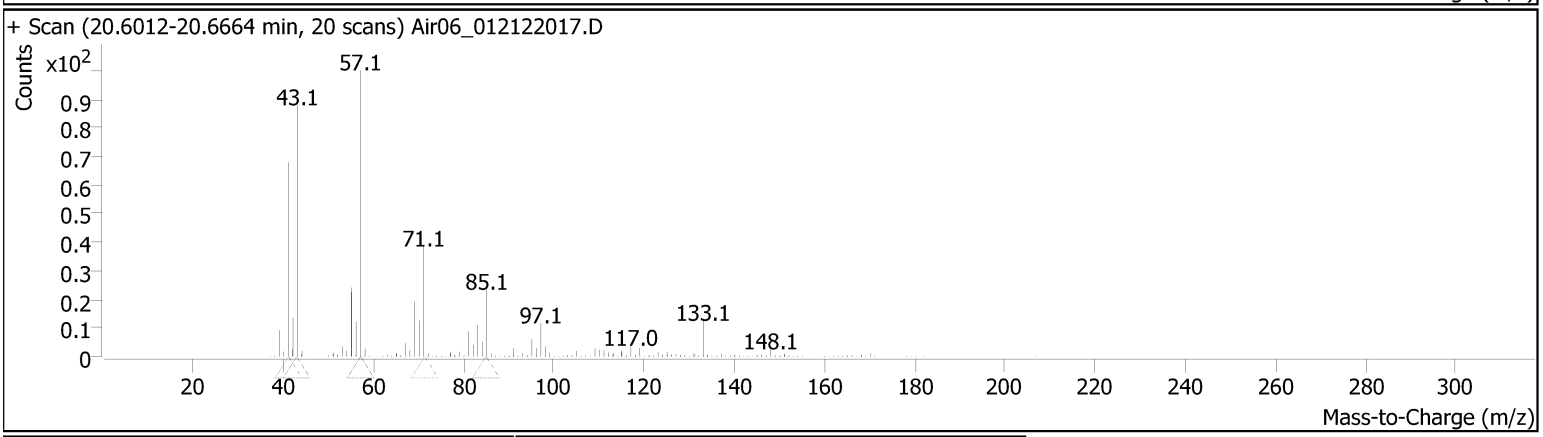
# Library Search Results - NonTarget Hits with Details

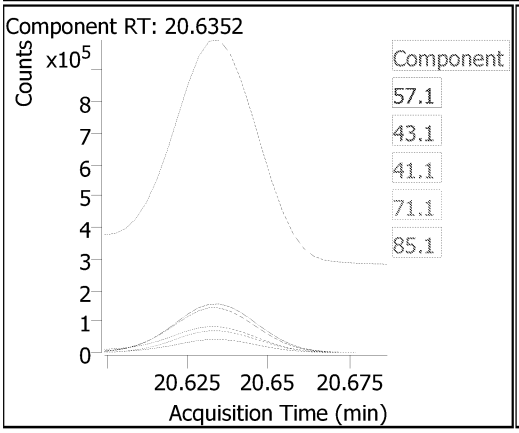
Agilent Technologies

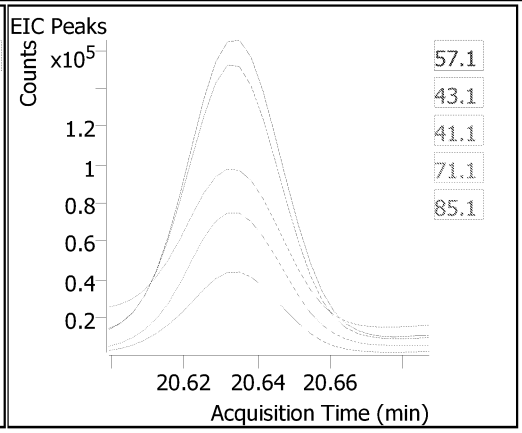
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.6352 | Dodecane | 2208864.9 | 88.5 | 112-40-3 | C12H26 | 4.746 |



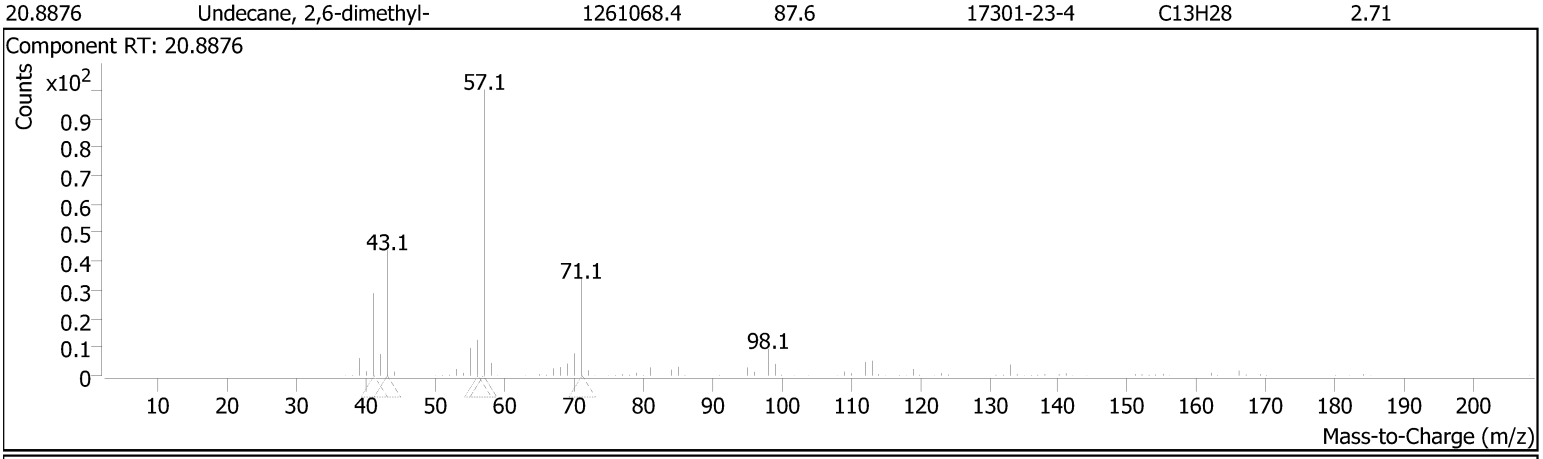



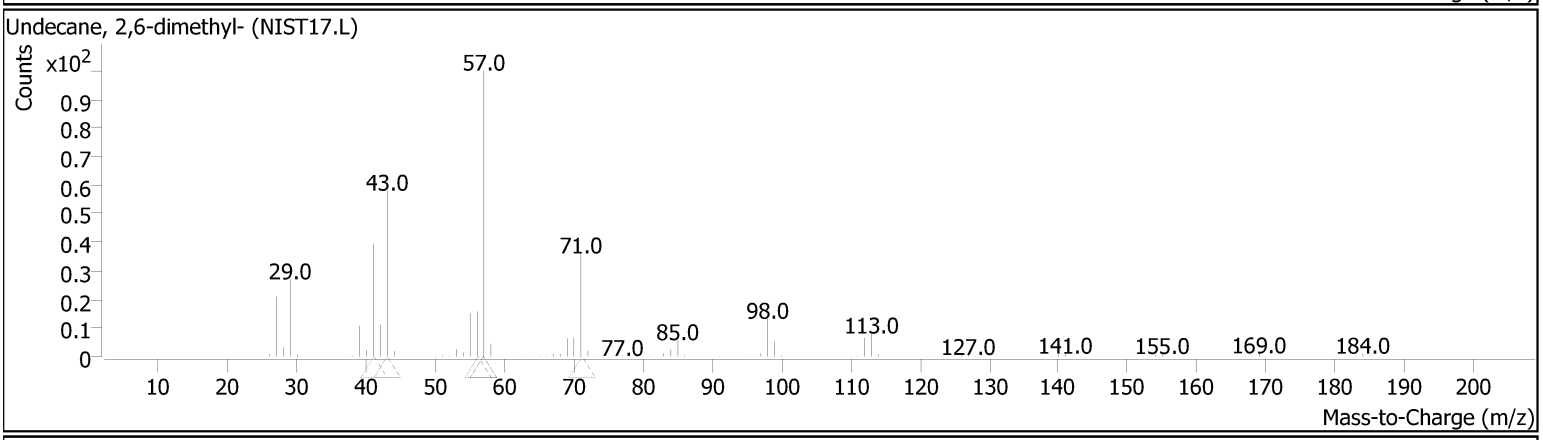


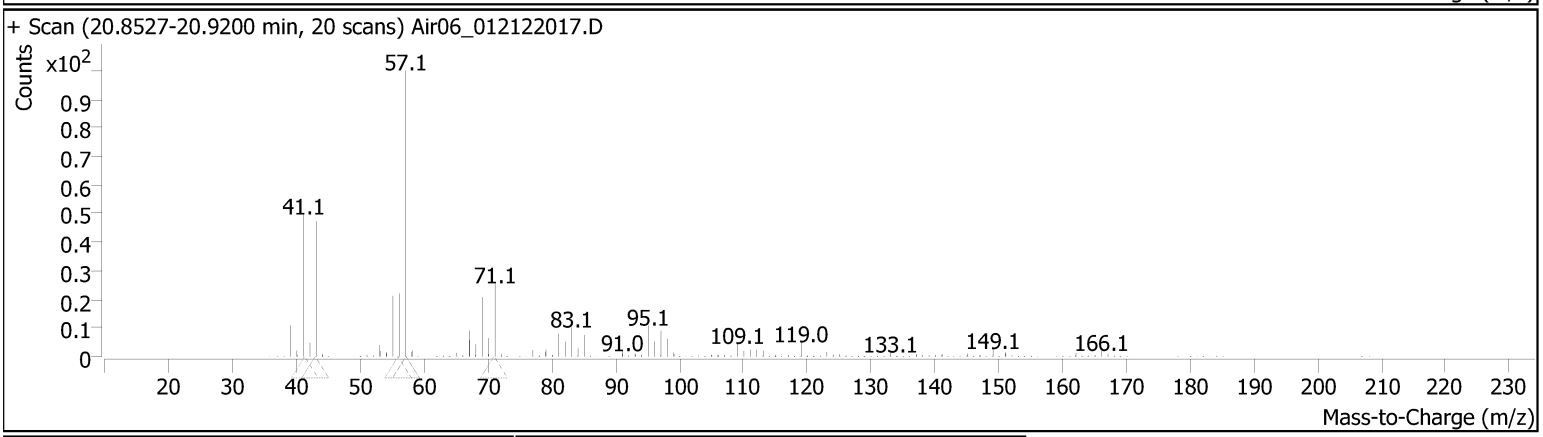

# Library Search Results - NonTarget Hits with Details

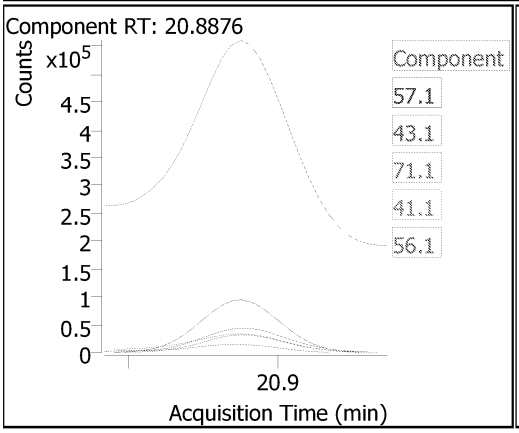
Agilent Technologies

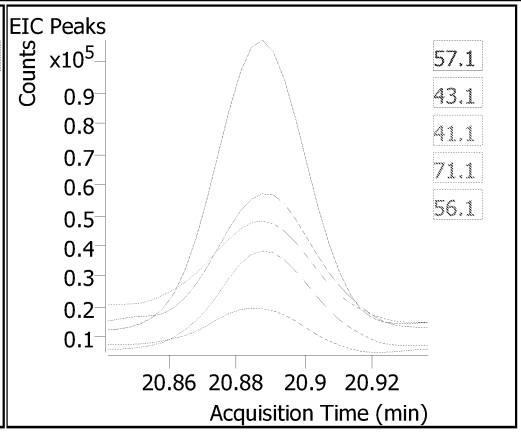
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.8876 | Undecane, 2,6-dimethyl- | 1261068.4 | 87.6 | 17301-23-4 | C13H28 | 2.71 |

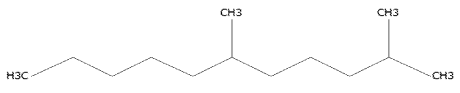


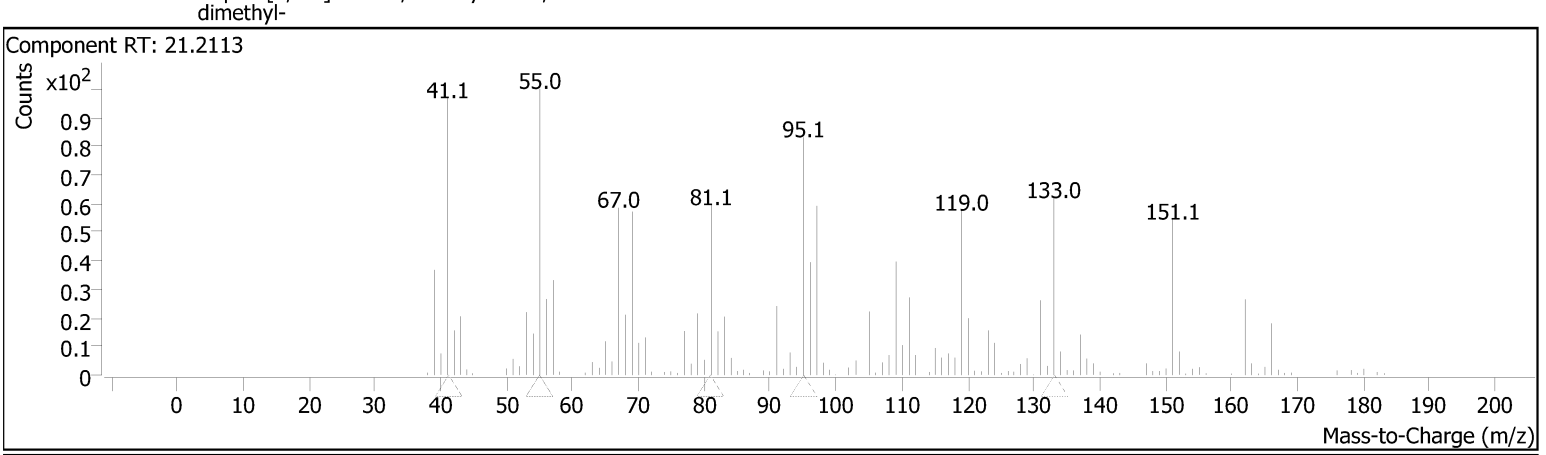



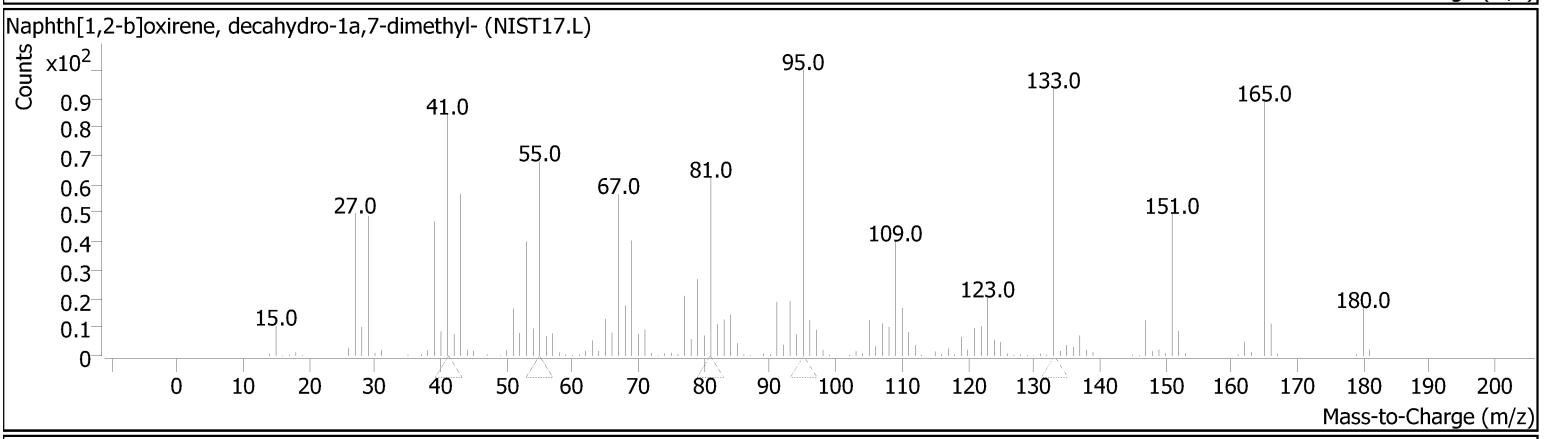



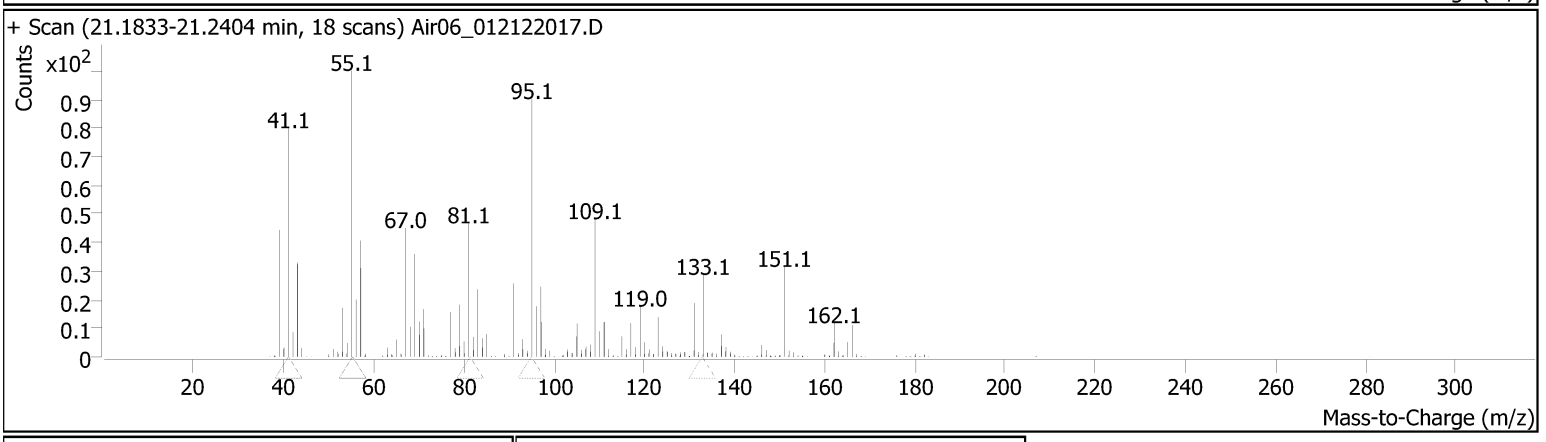



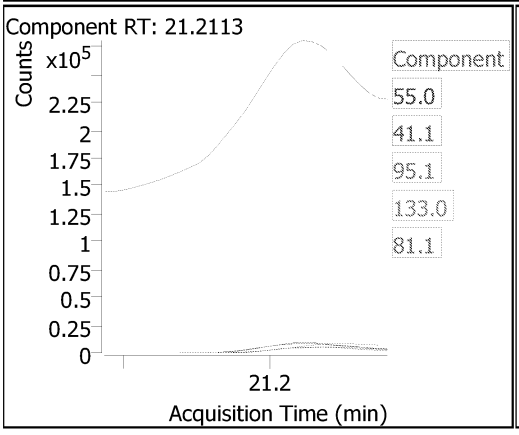



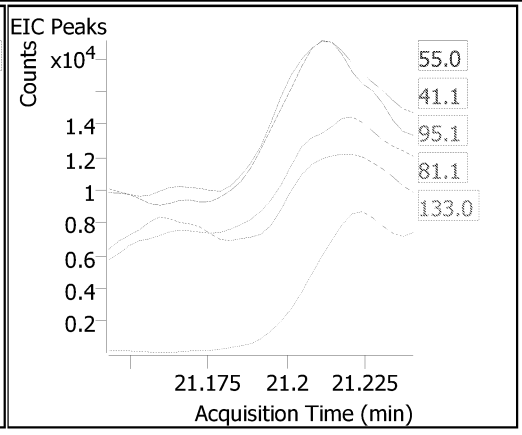
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.2113 | Naphth[1,2-b]oxirene, decahydro-1a,7-dimethyl- | 433774.1 | 79.4 | 55976-08-4 | C12H20O | 0.9321 |

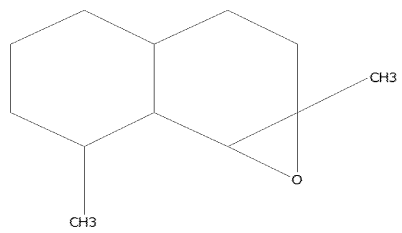


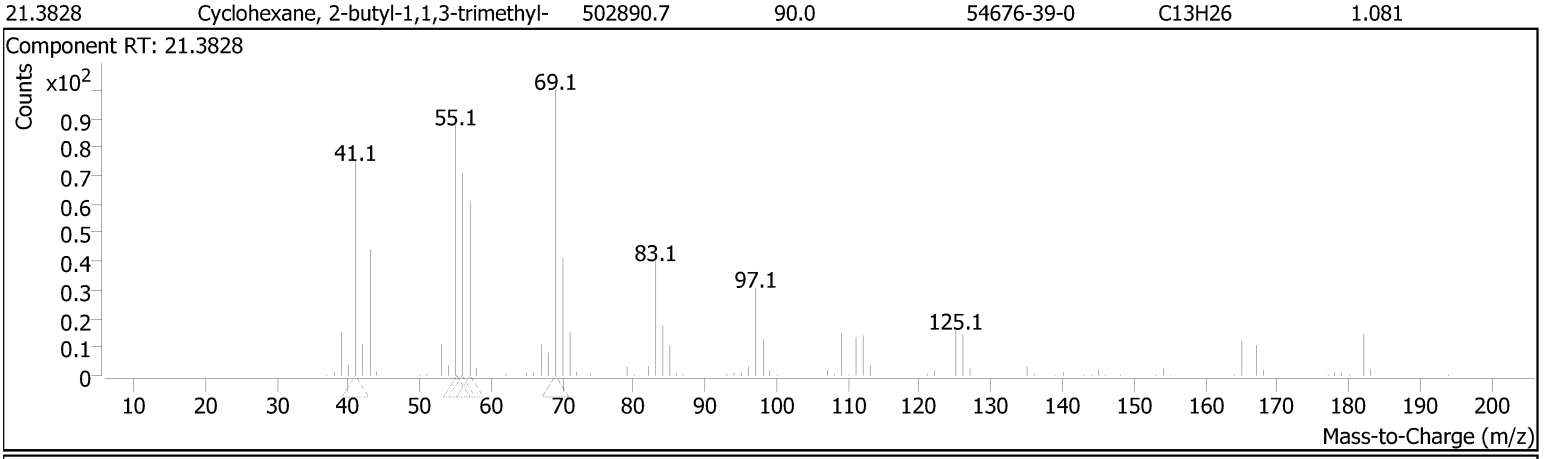



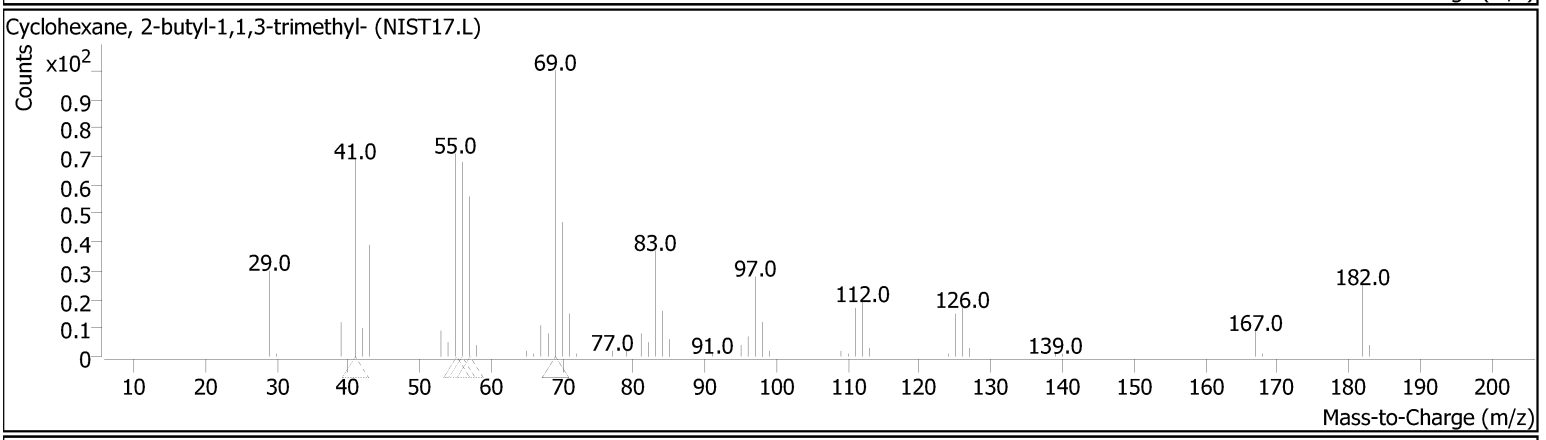



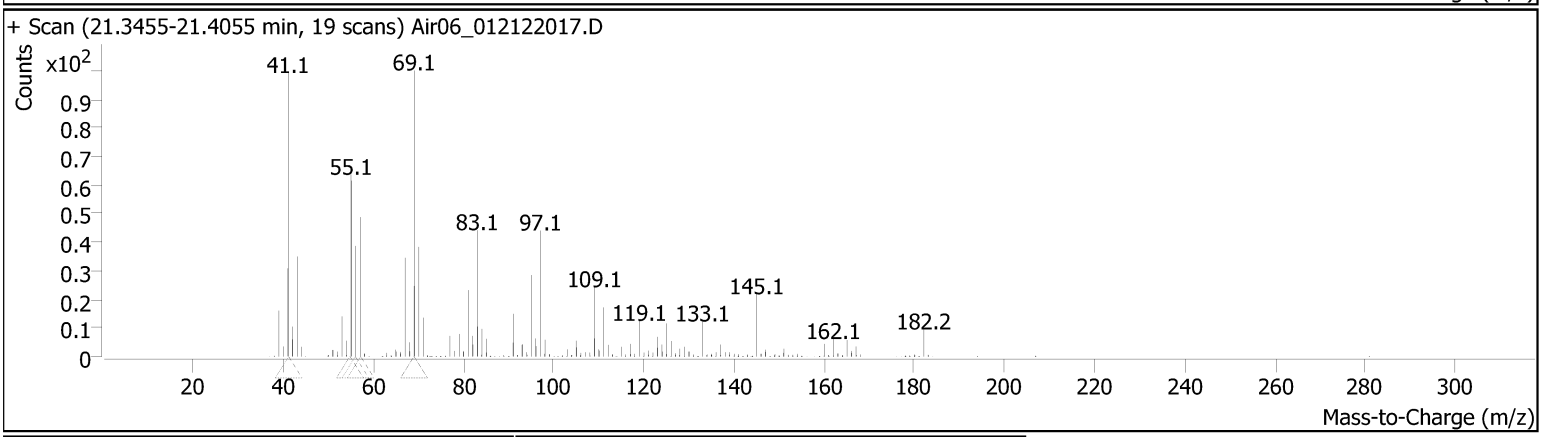



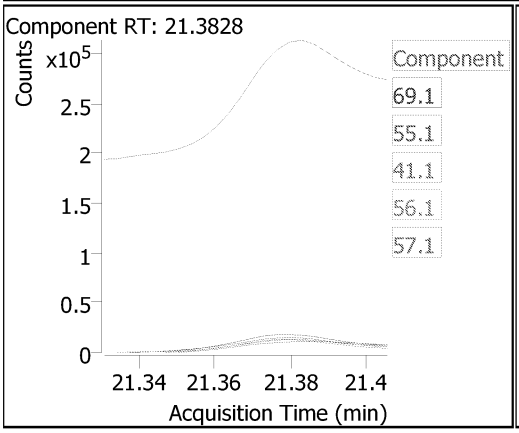



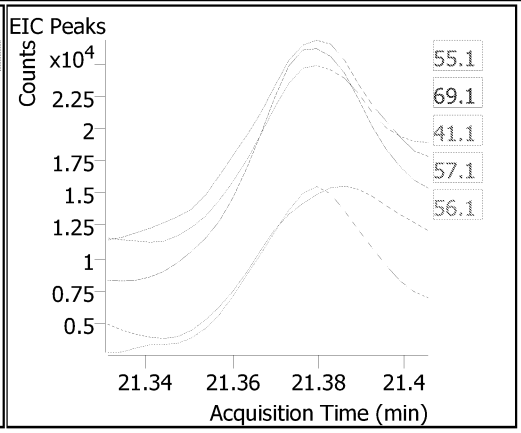
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.3828 | Cyclohexane, 2-butyl-1,1,3-trimethyl- | 502890.7 | 90.0 | 54676-39-0 | C13H26 | 1.081 |

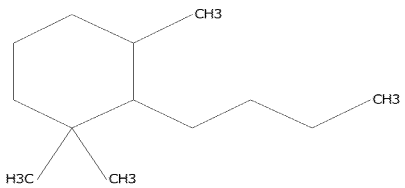


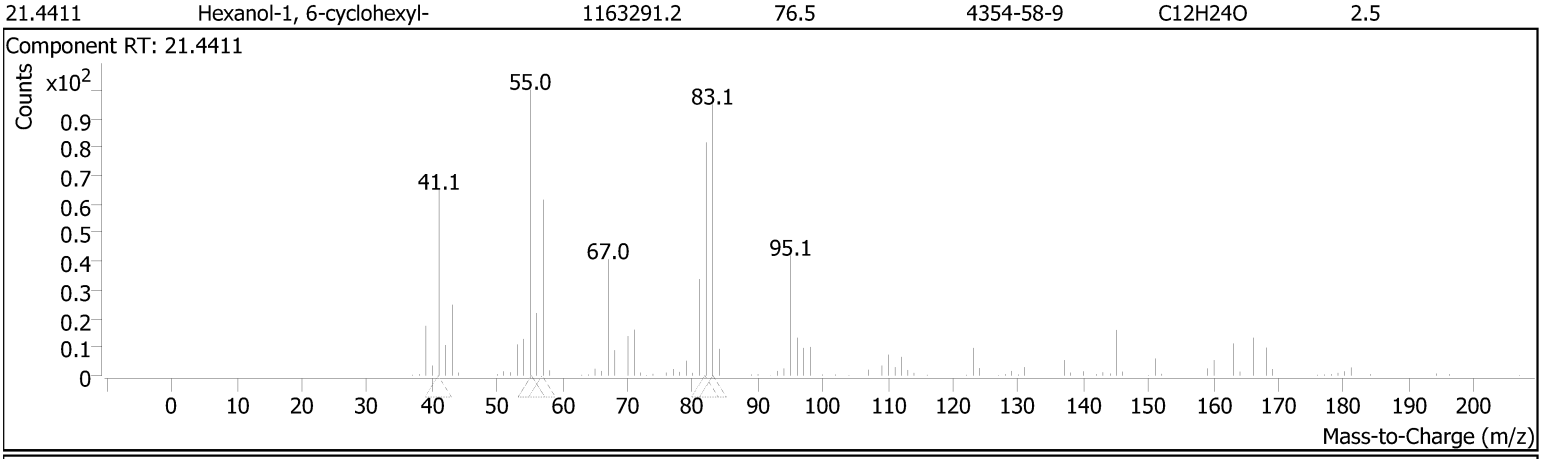



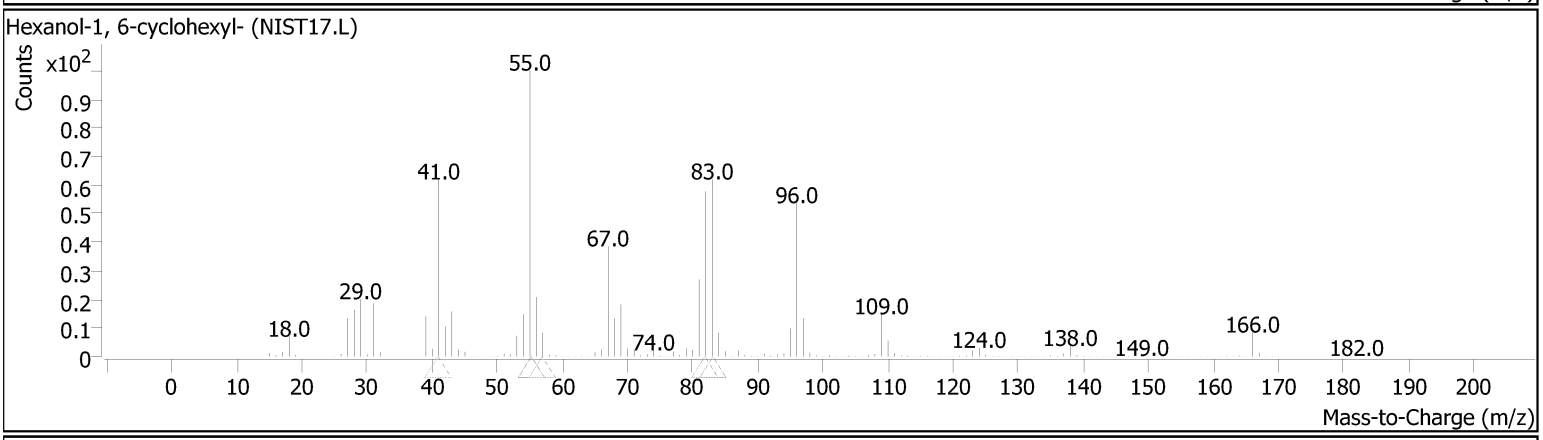



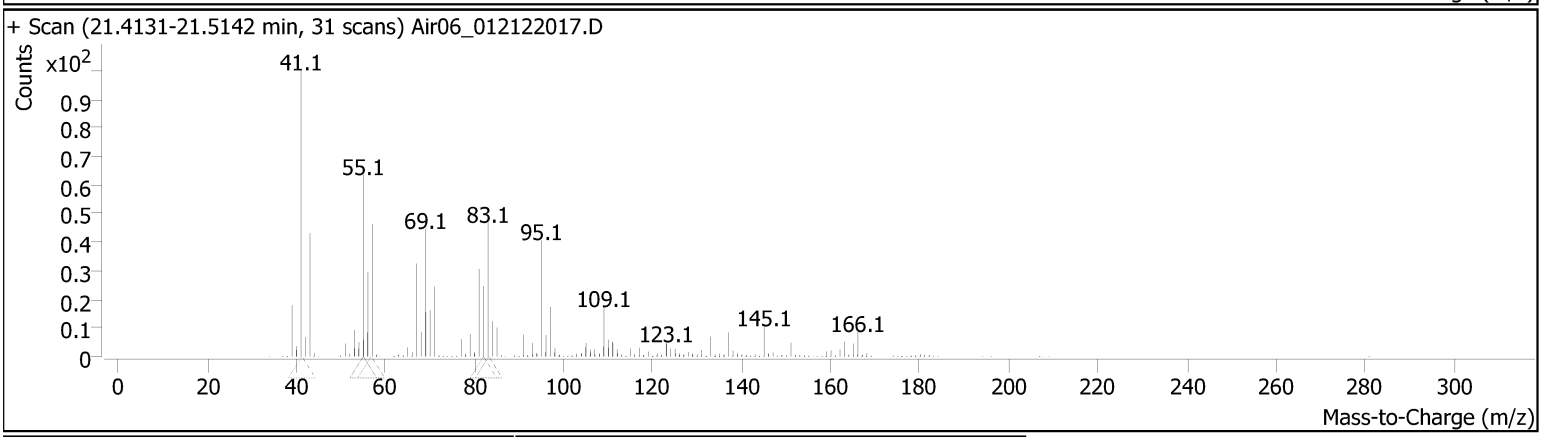



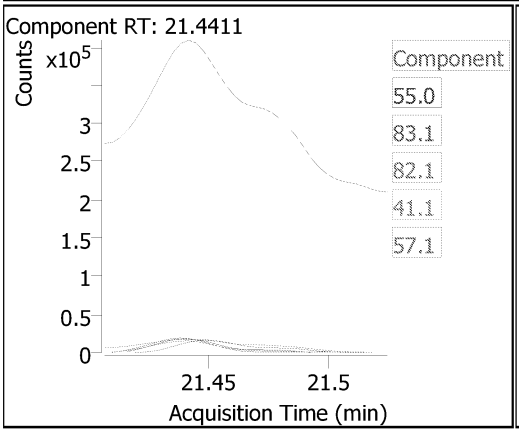



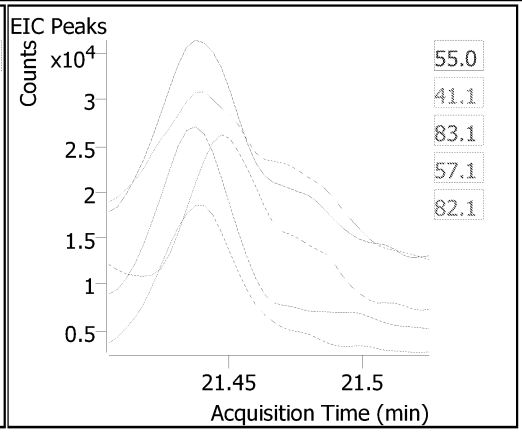
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.4411 | Hexanol-1, 6-cyclohexyl- | 1163291.2 | 76.5 | 4354-58-9 | C12H24O | 2.5 |

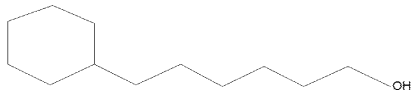


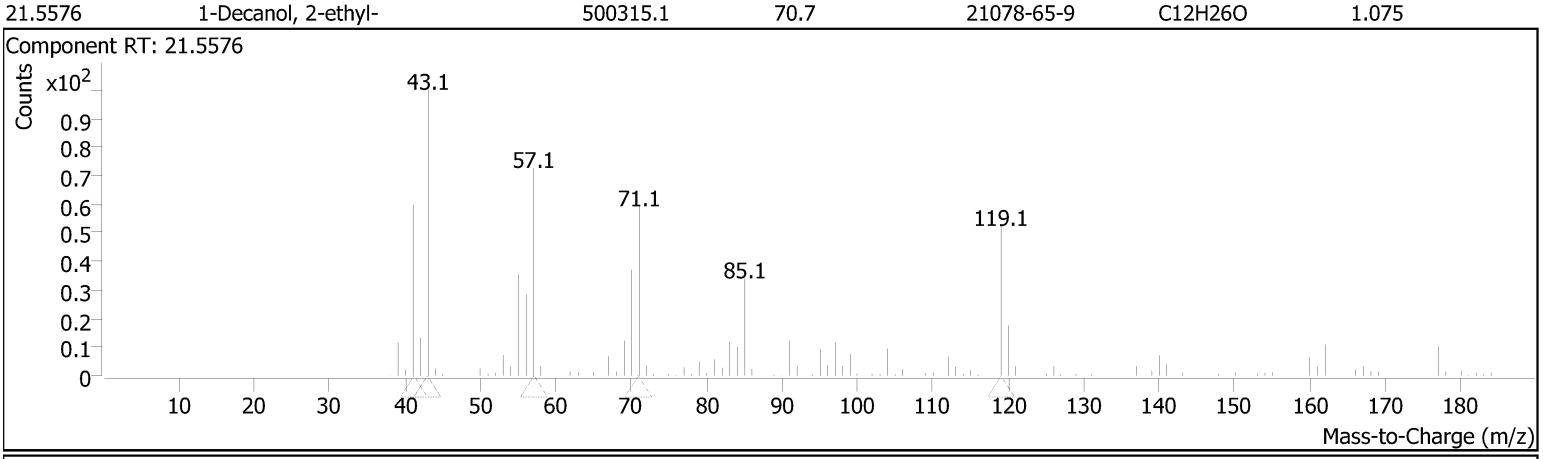



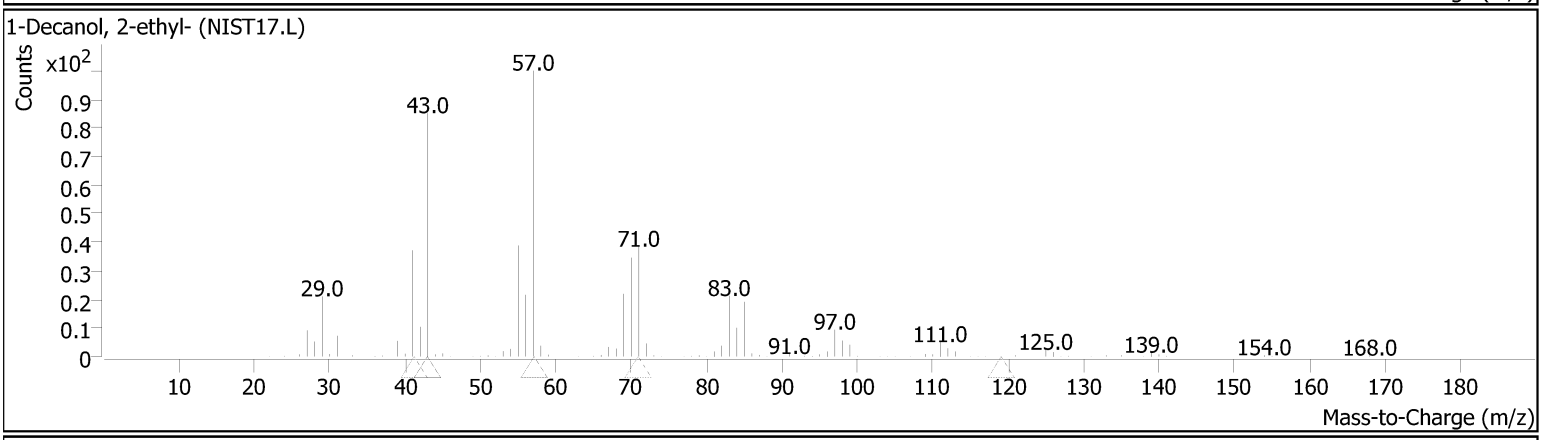



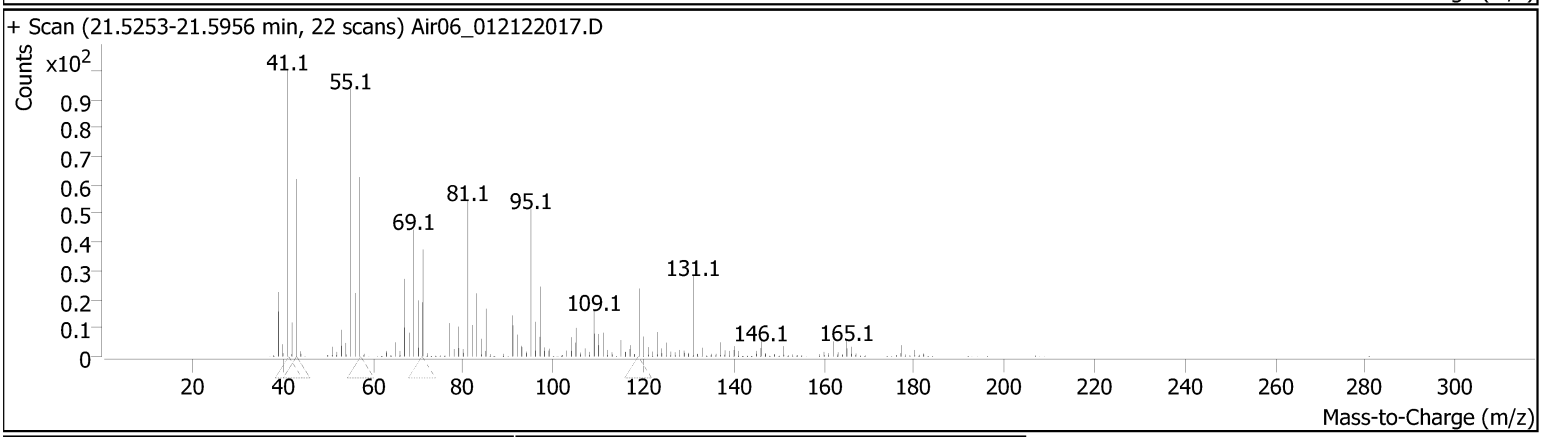



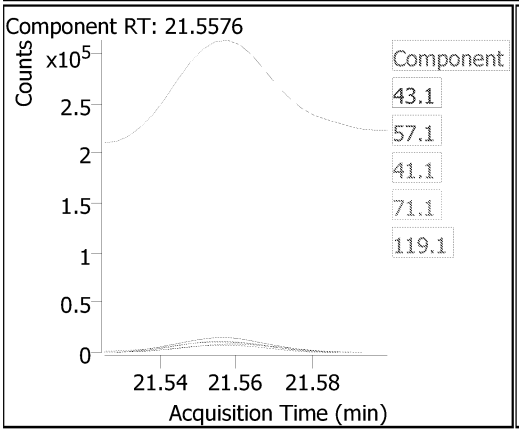



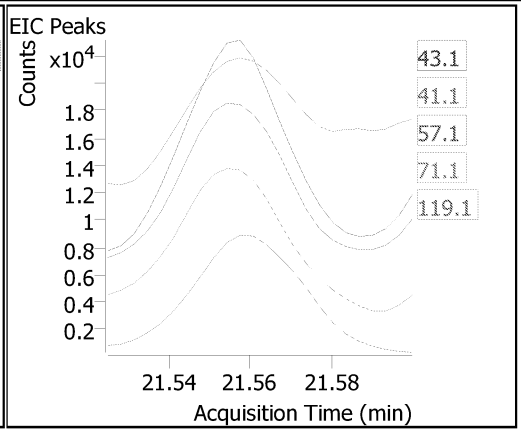
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.5576 | 1-Decanol, 2-ethyl- | 500315.1 | 70.7 | 21078-65-9 | C12H26O | 1.075 |

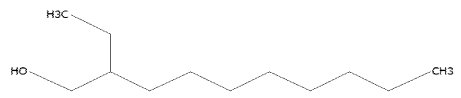


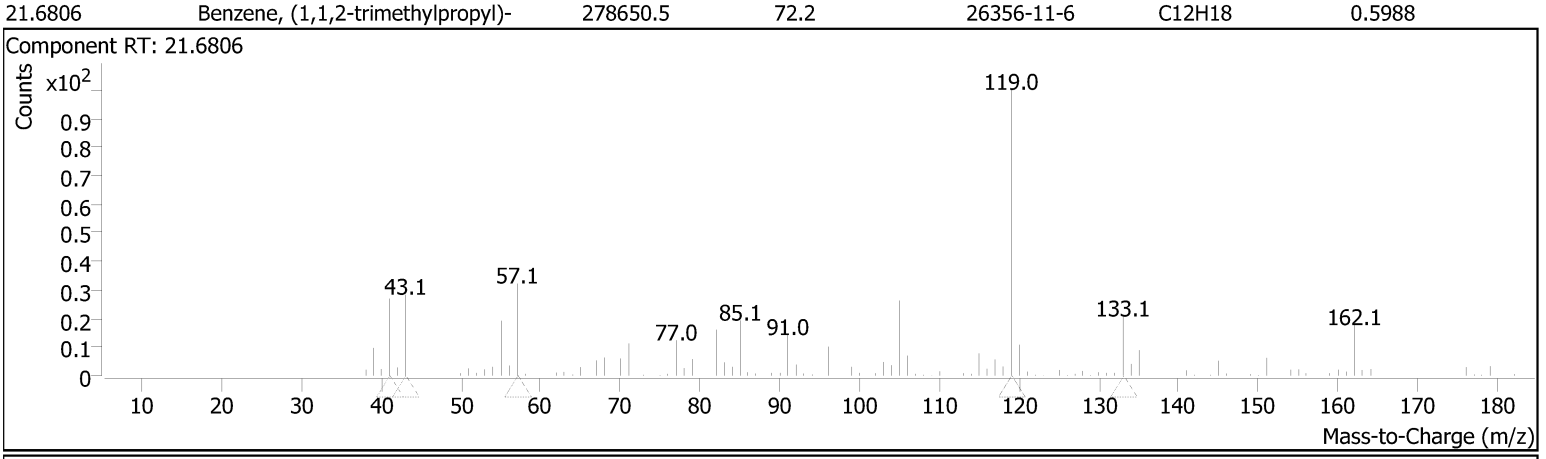



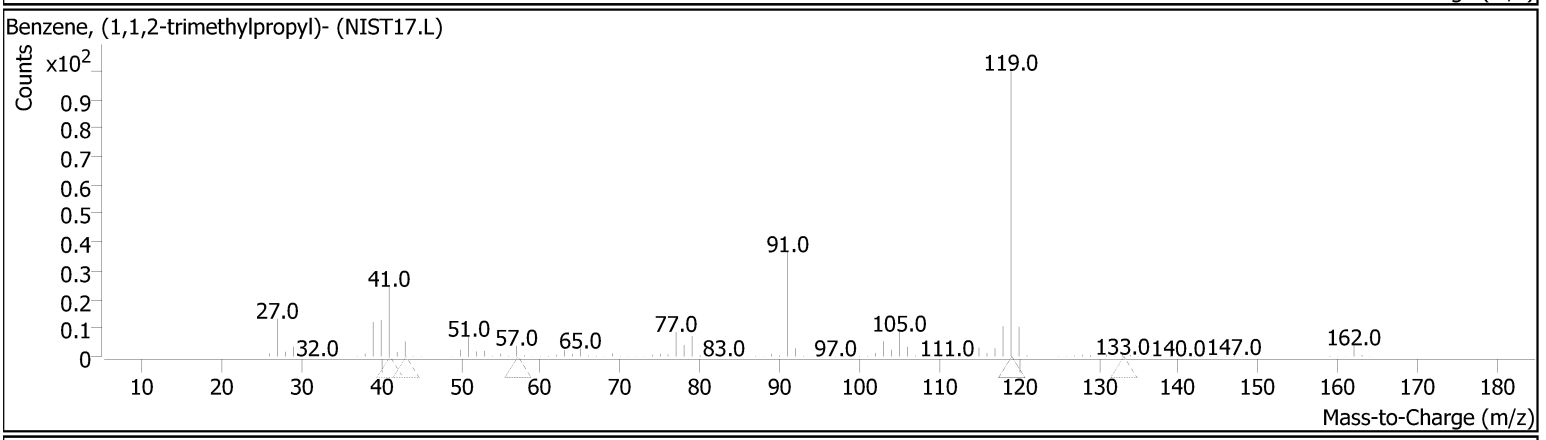



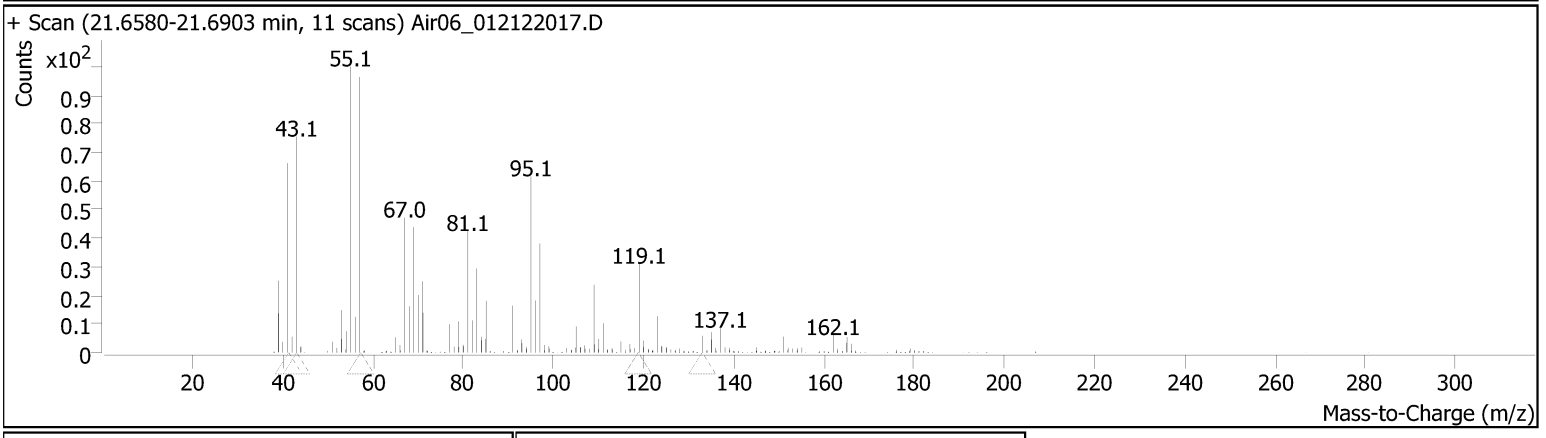



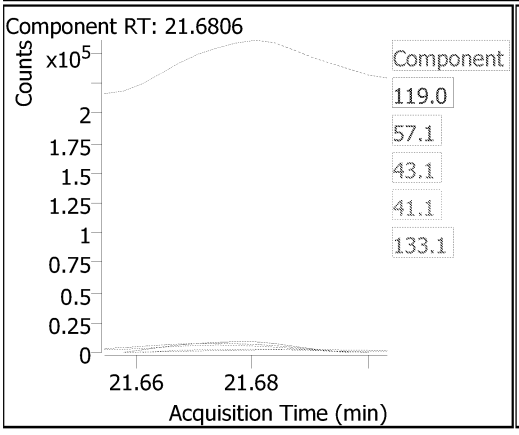



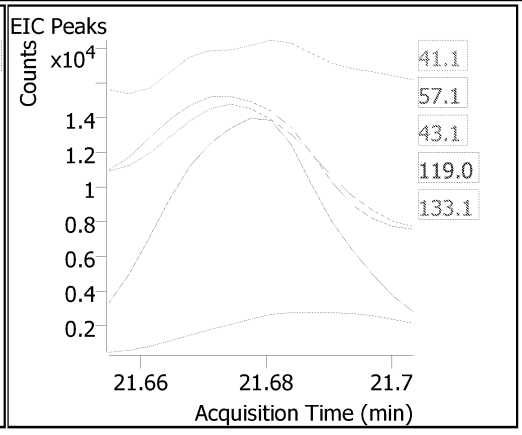
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.6806 | Benzene, (1,1,2-trimethylpropyl)- | 278650.5 | 72.2 | 26356-11-6 | C12H18 | 0.5988 |

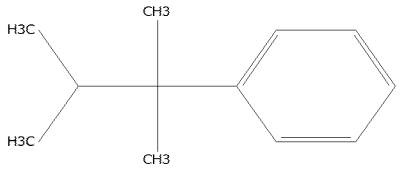


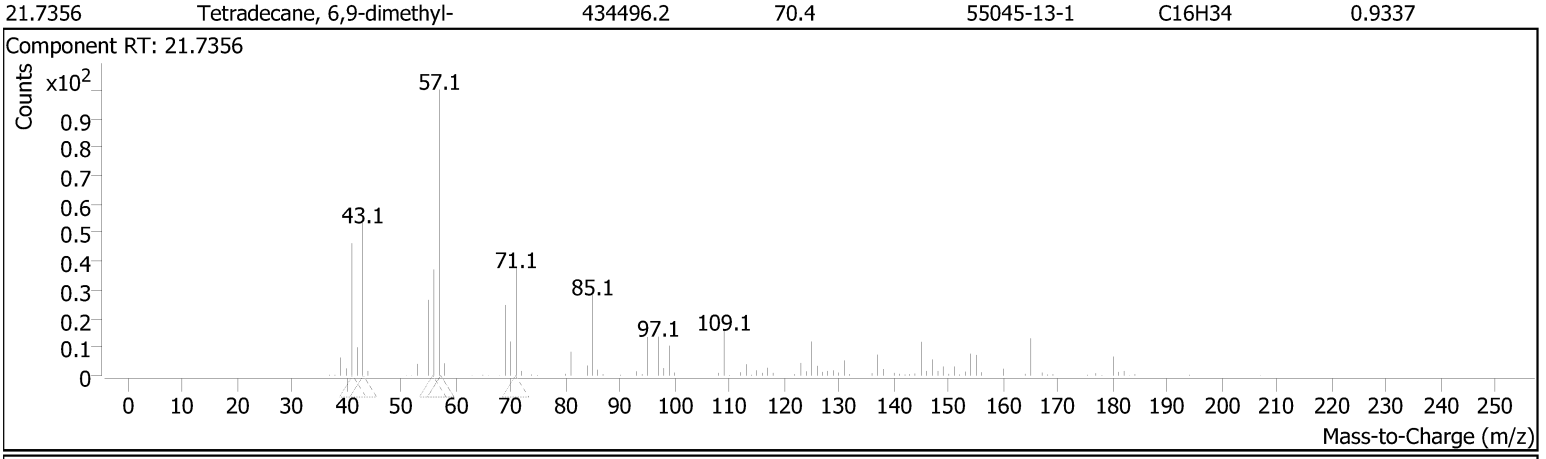



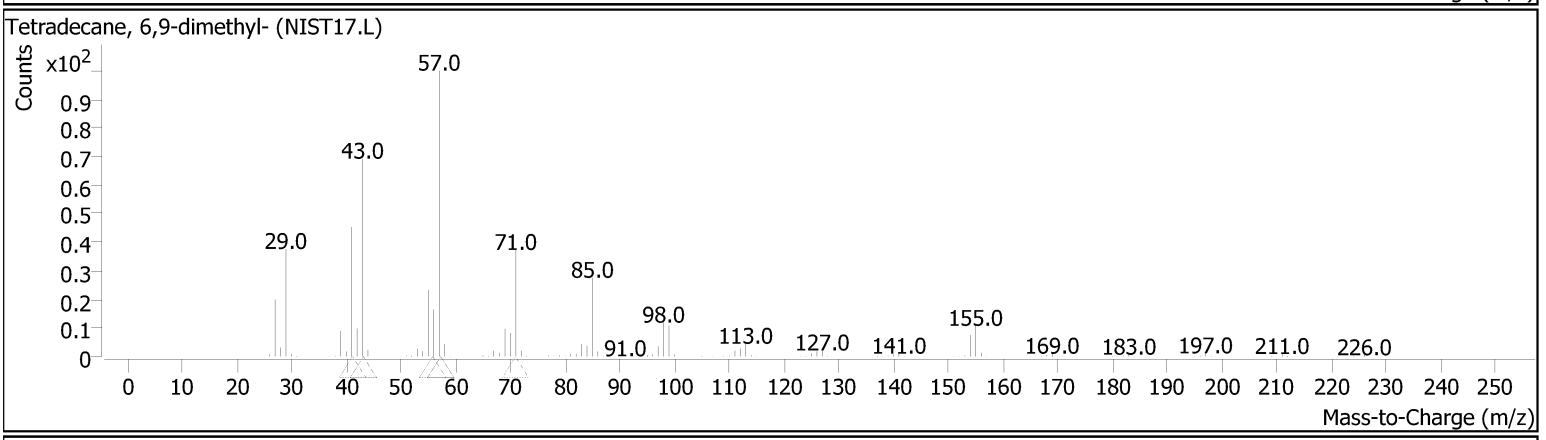



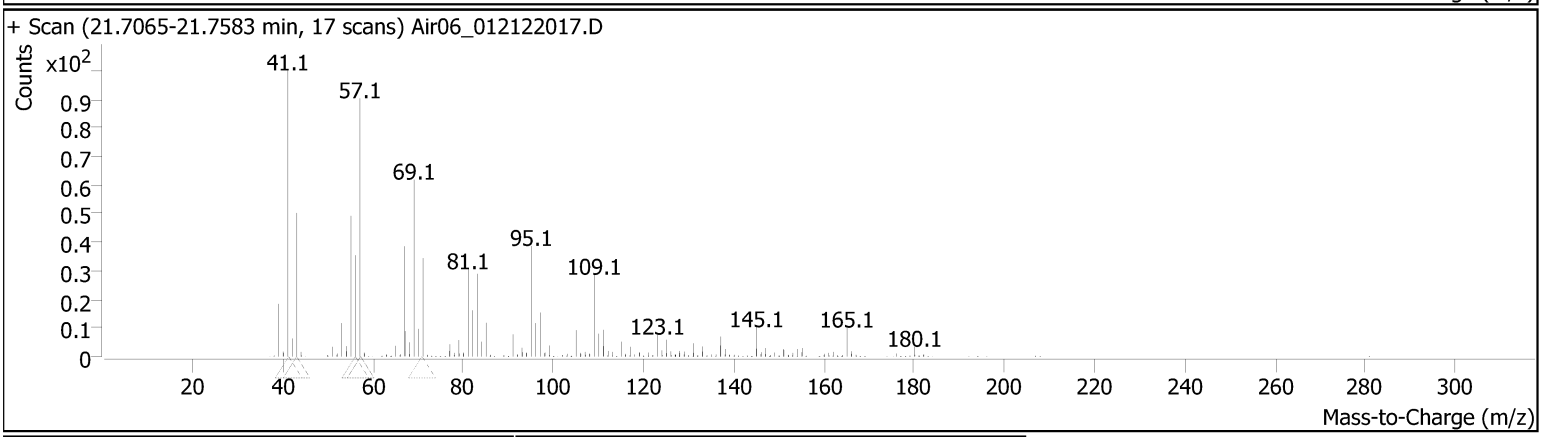
# Library Search Results - NonTarget Hits with Details

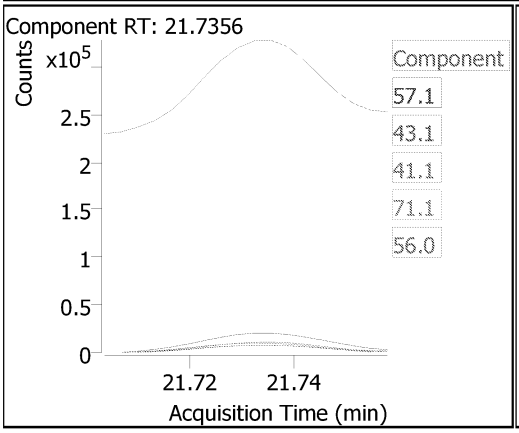
Agilent Technologies

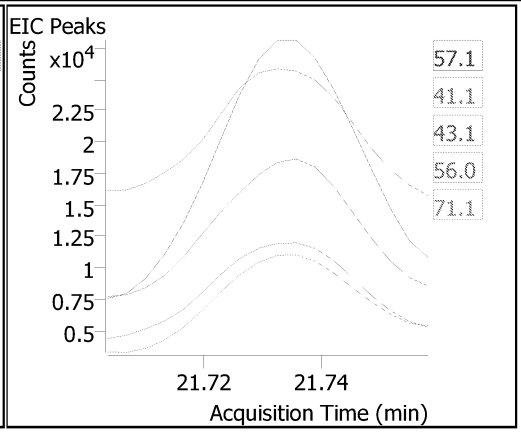
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7356 | Tetradecane, 6,9-dimethyl- | 434496.2 | 70.4 | 55045-13-1 | C16H34 | 0.9337 |

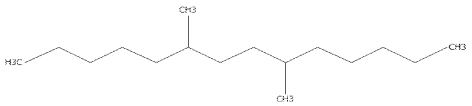


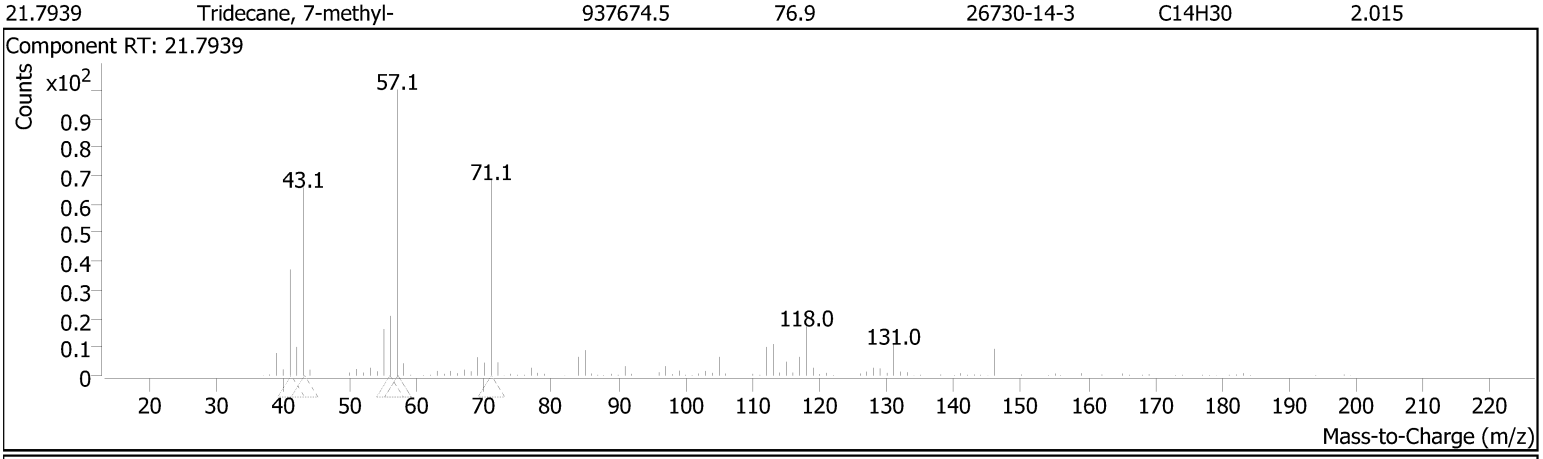



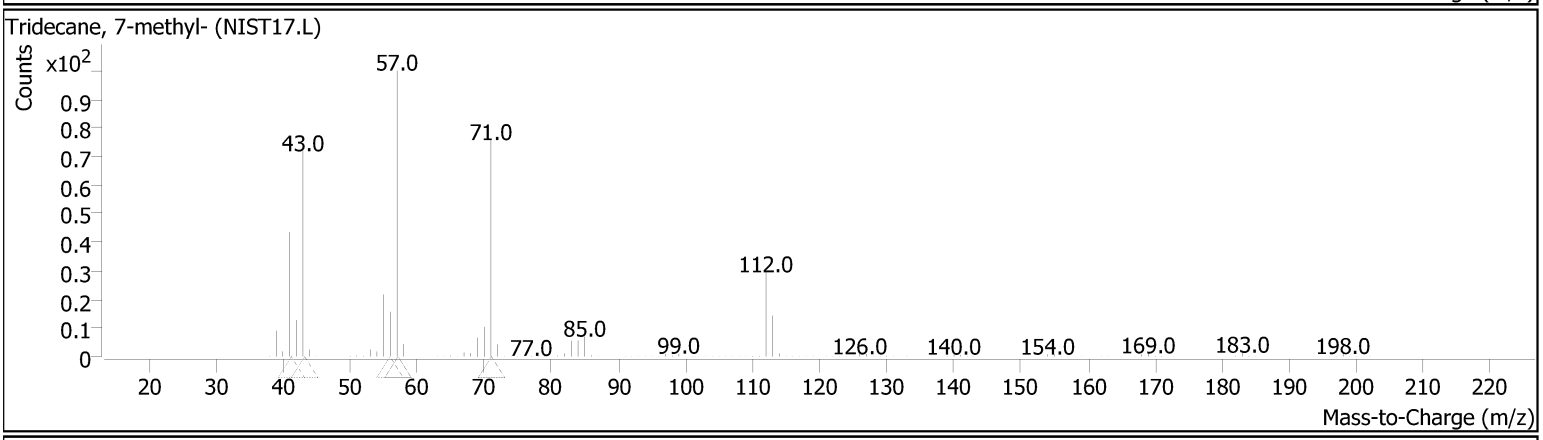



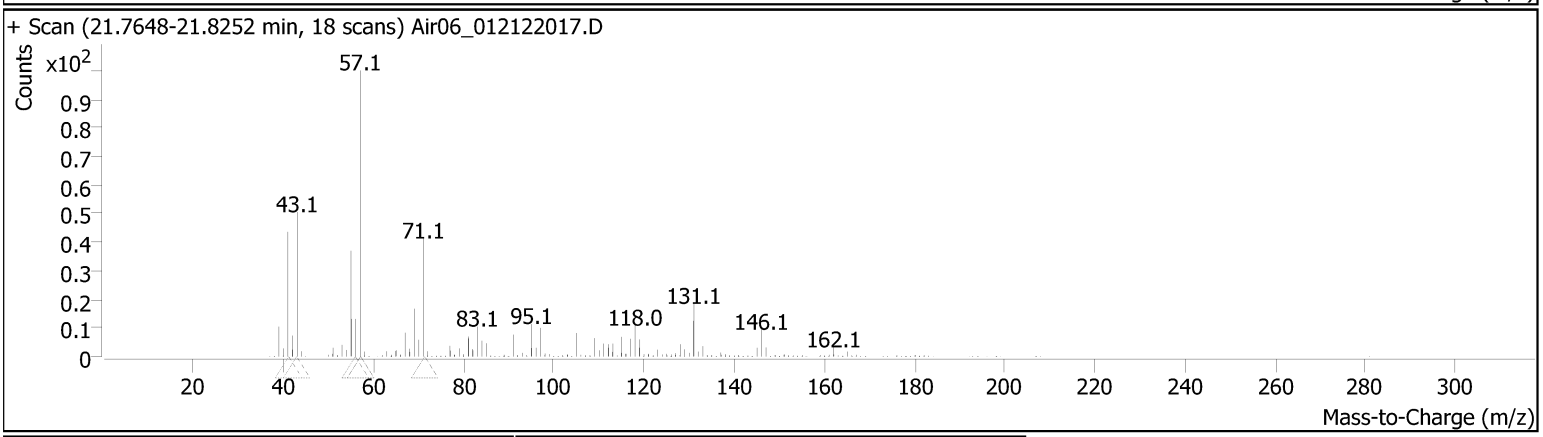



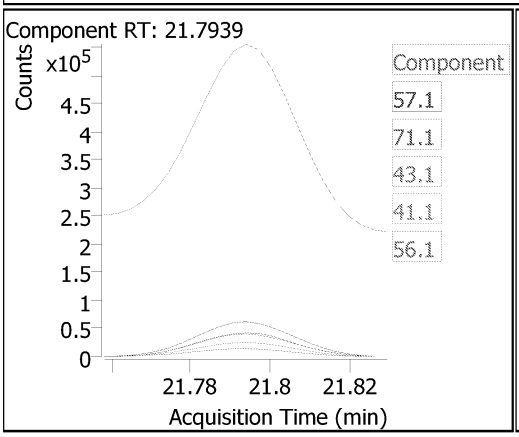



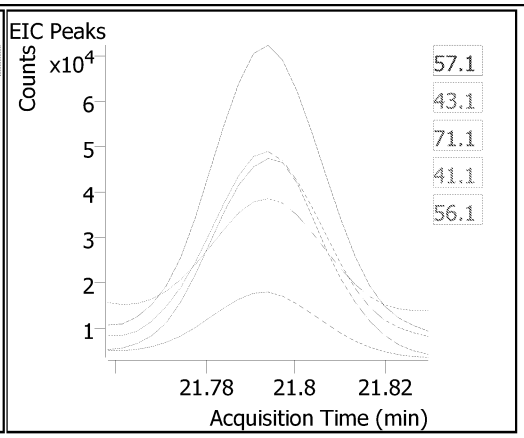
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7939 | Tridecane, 7-methyl- | 937674.5 | 76.9 | 26730-14-3 | C14H30 | 2.015 |

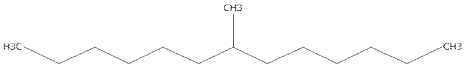


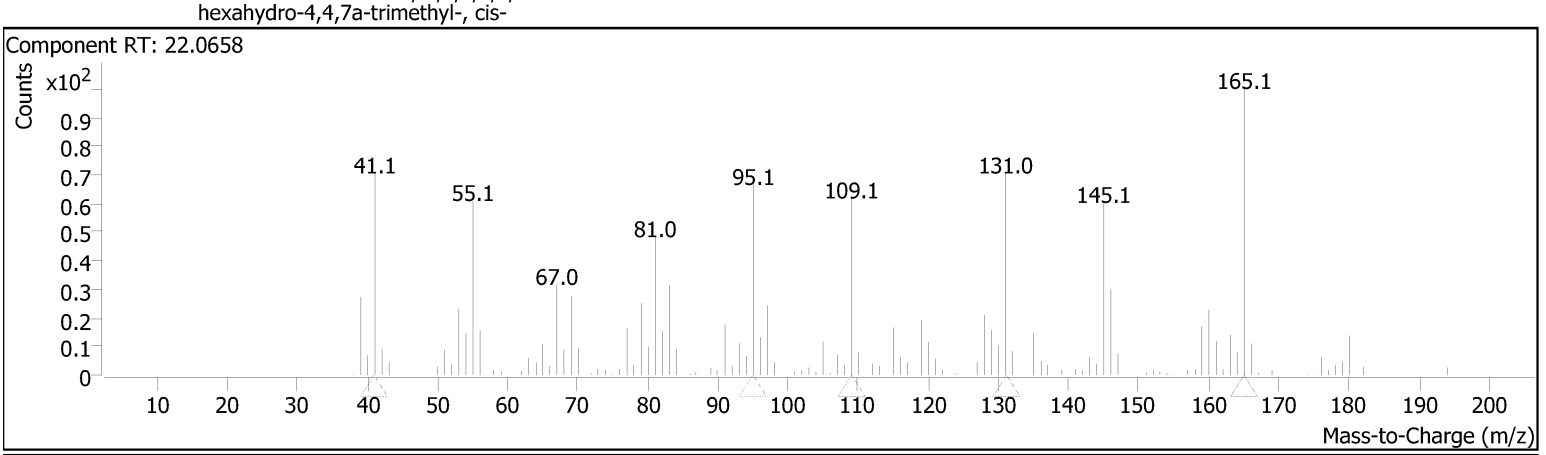



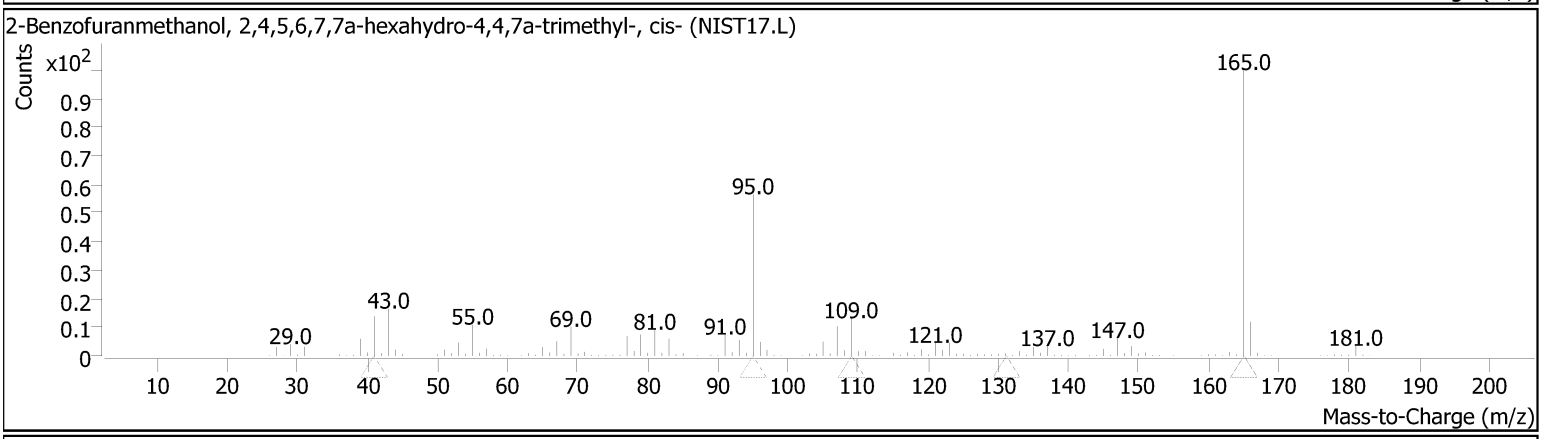



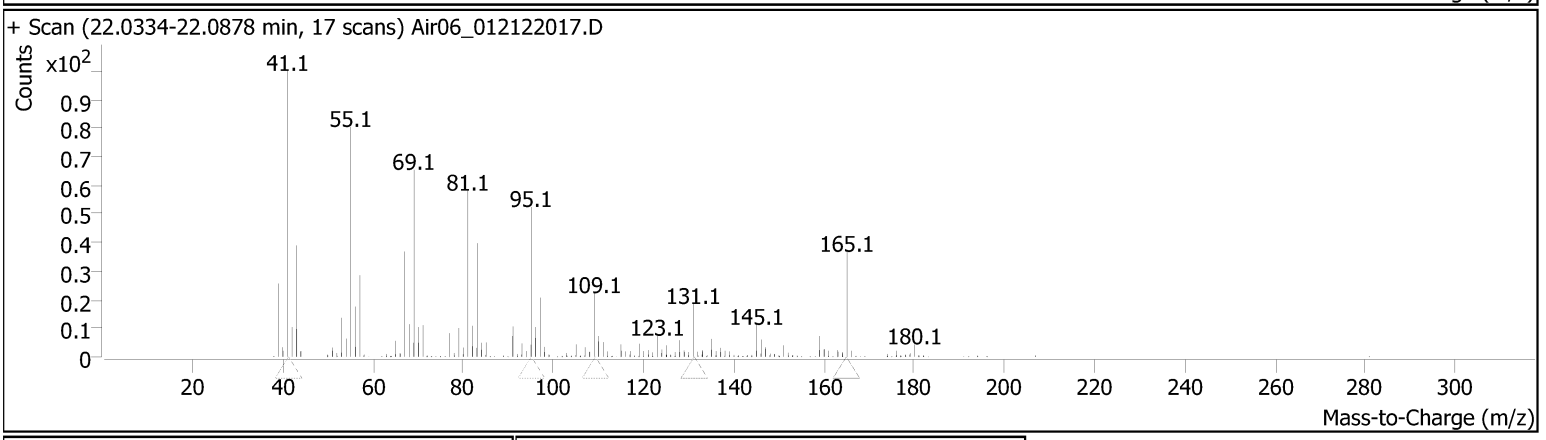



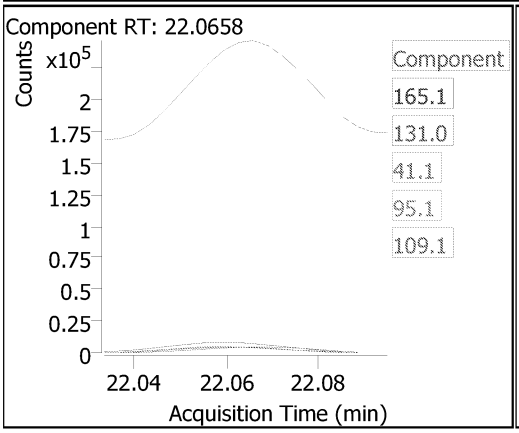
Agilent Technologies

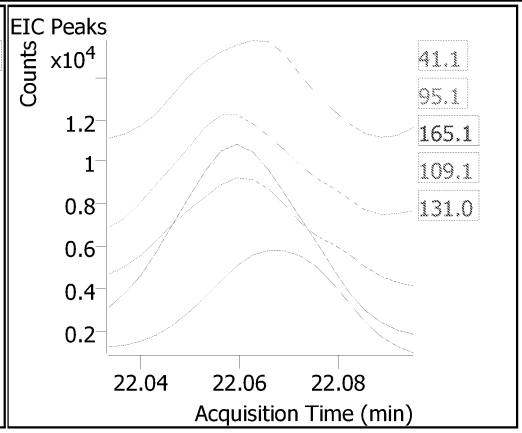
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.0658 | 2-Benzofuranmethanol, 2,4,5,6,7,7a-hexahydro-4,4,7a-trimethyl-, cis- | 189842.2 | 72.3 | 77384-15-7 | C12H20O2 | 0.4079 |

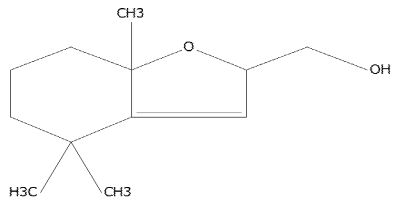


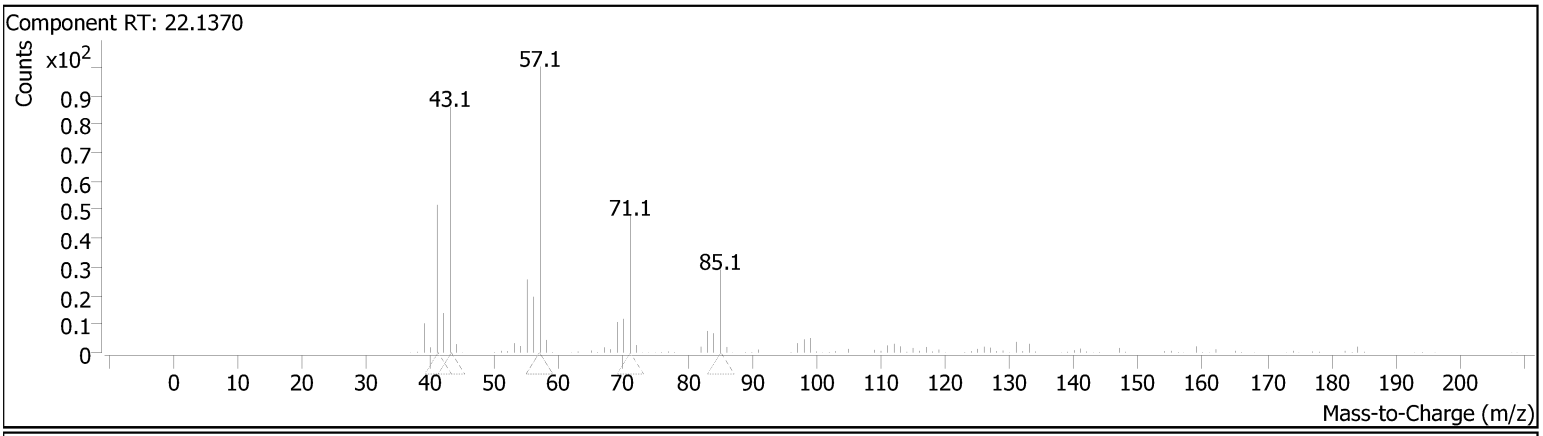



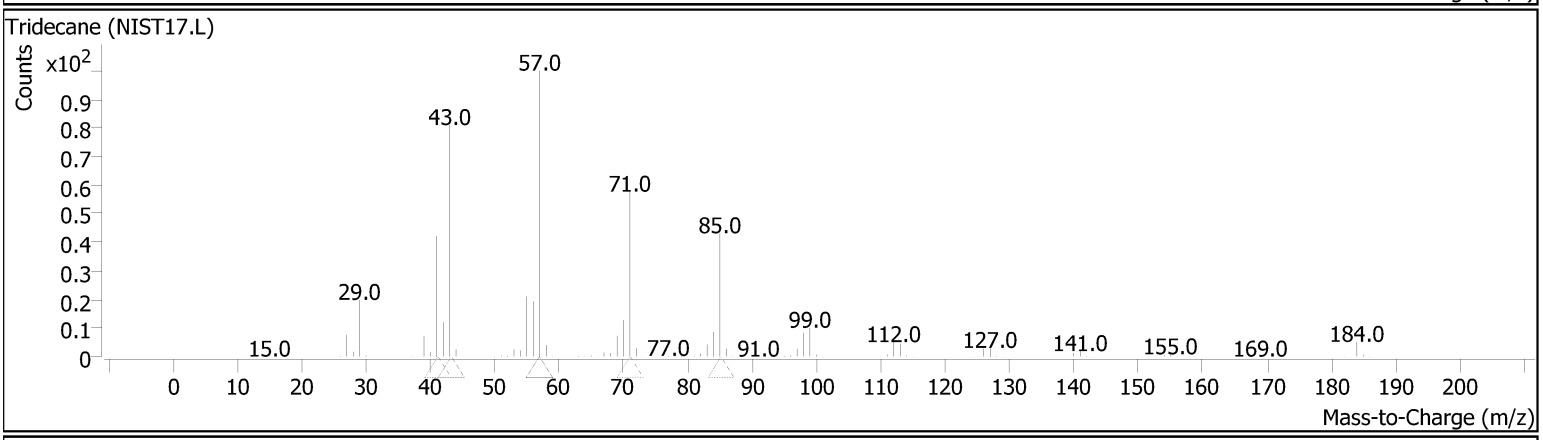



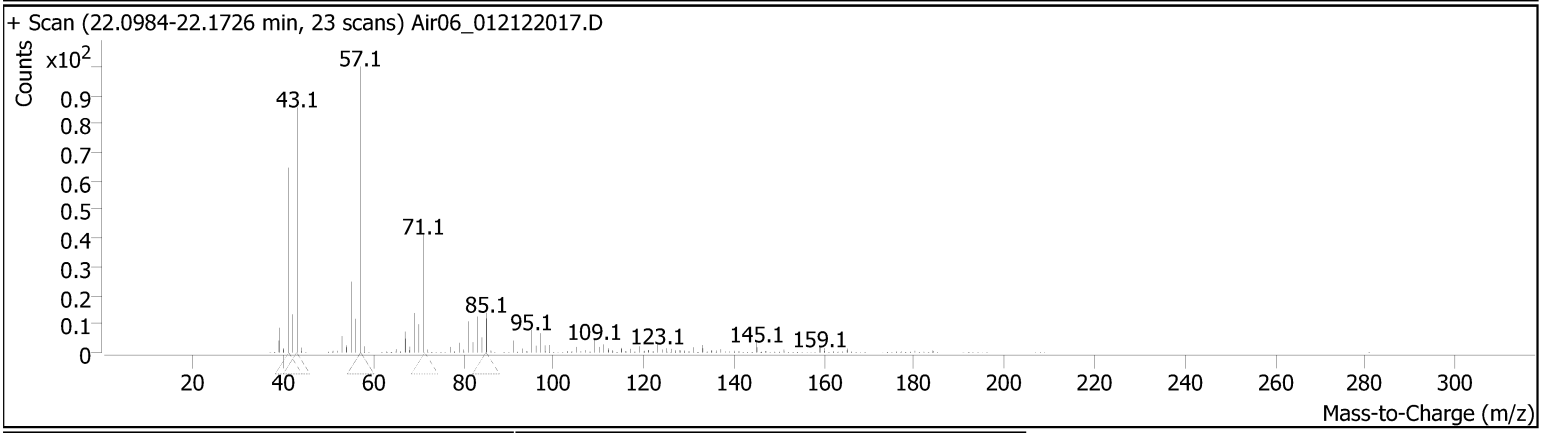



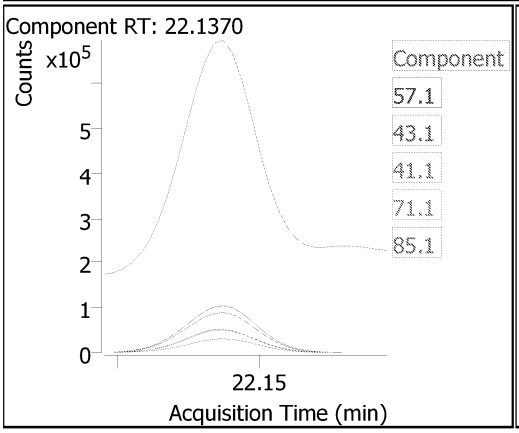



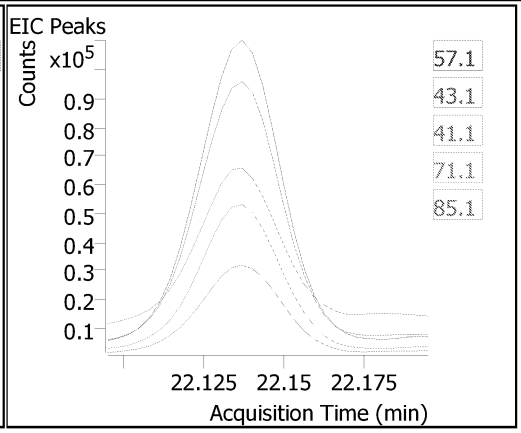
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.1370 | Tridecane | 1207315.6 | 89.5 | 629-50-5 | C13H28 | 2.594 |

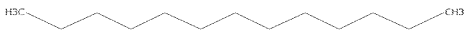


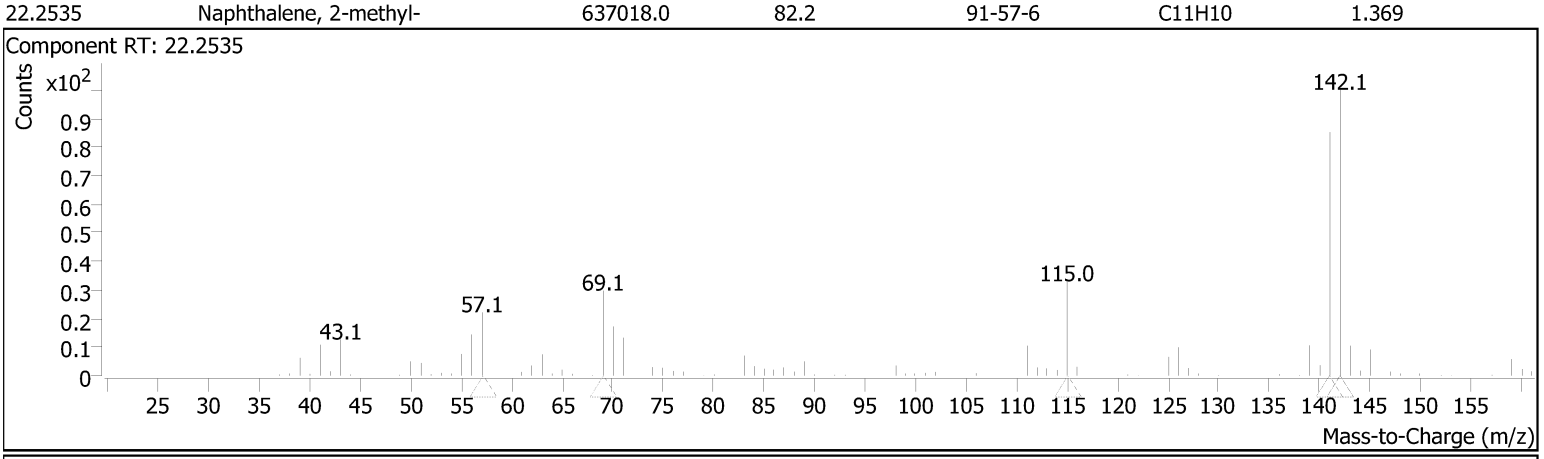



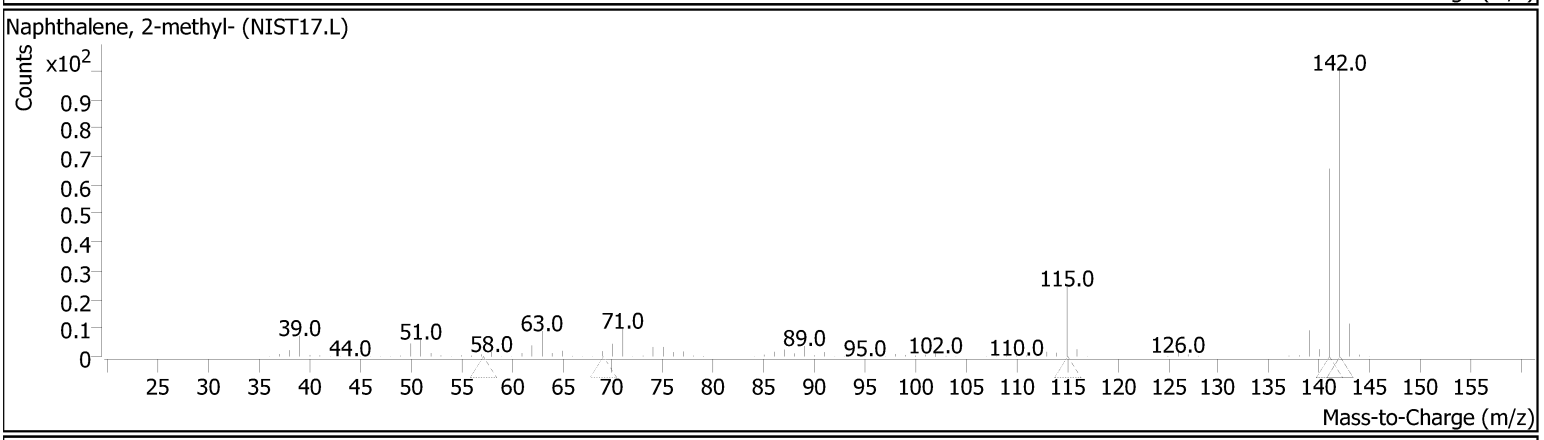



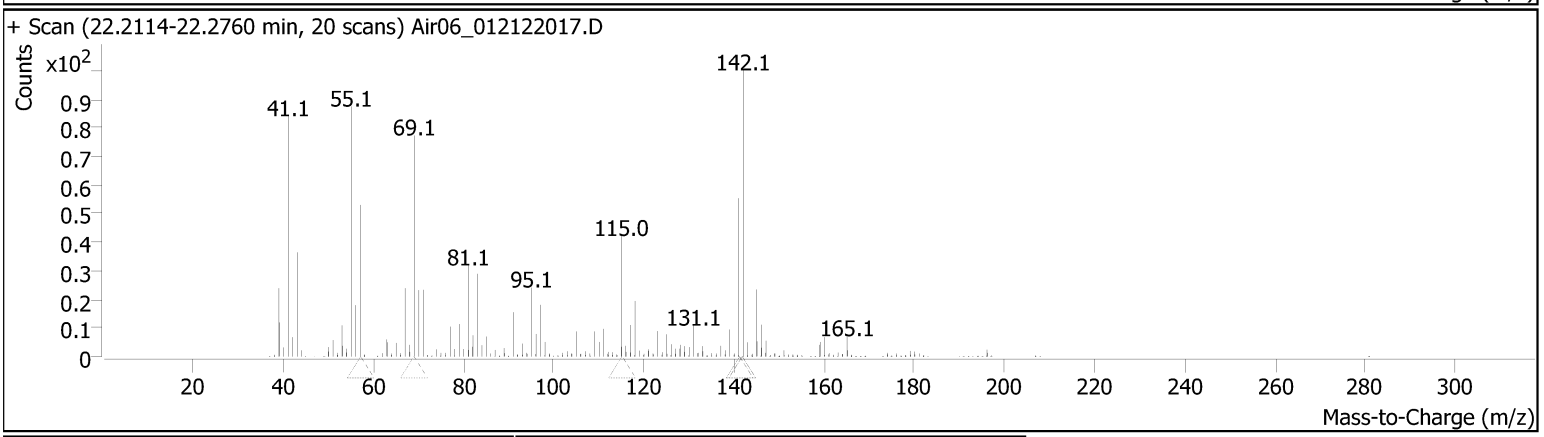



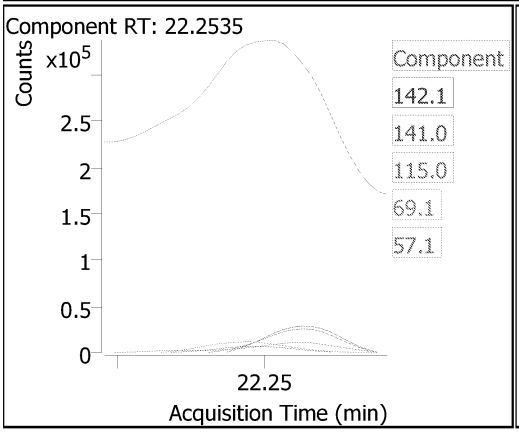



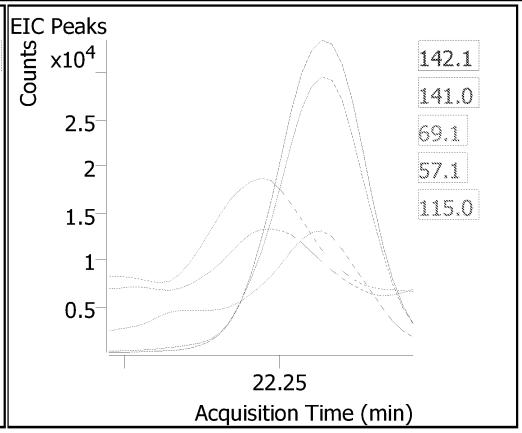
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.2535 | Naphthalene, 2-methyl- | 637018.0 | 82.2 | 91-57-6 | C11H10 | 1.369 |

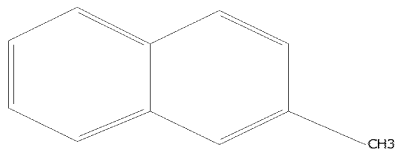


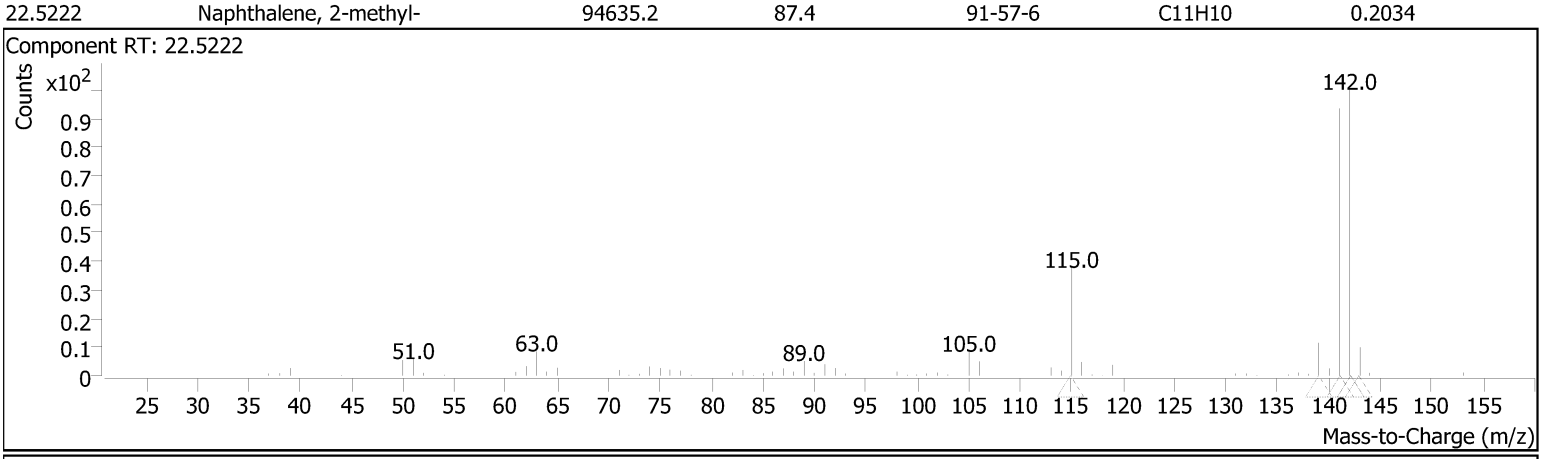



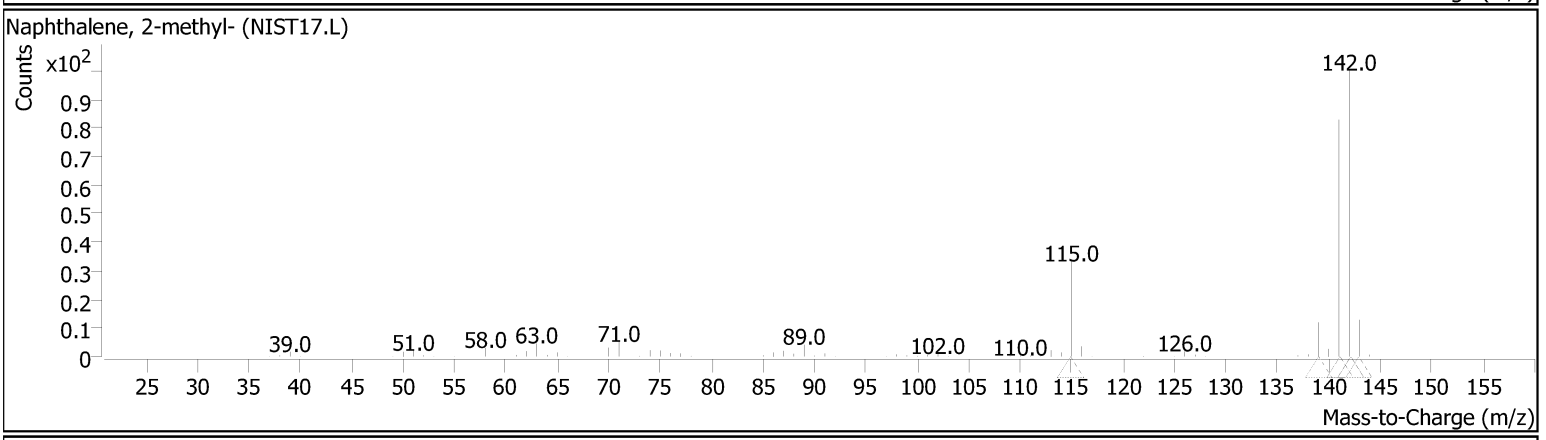



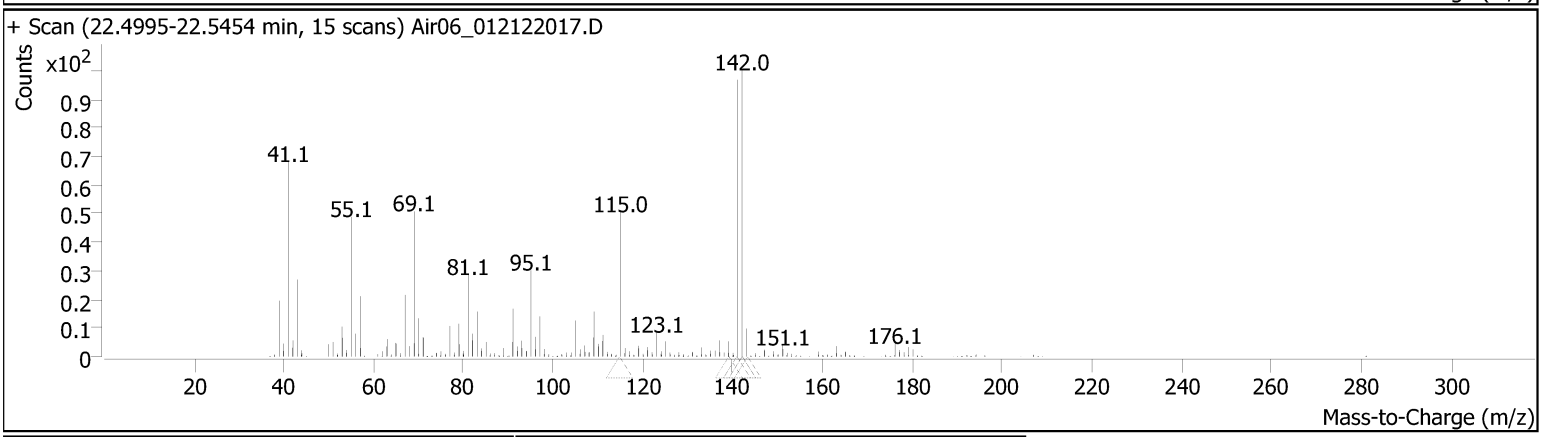



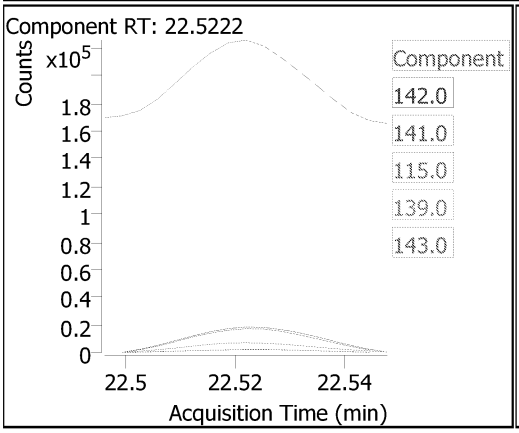



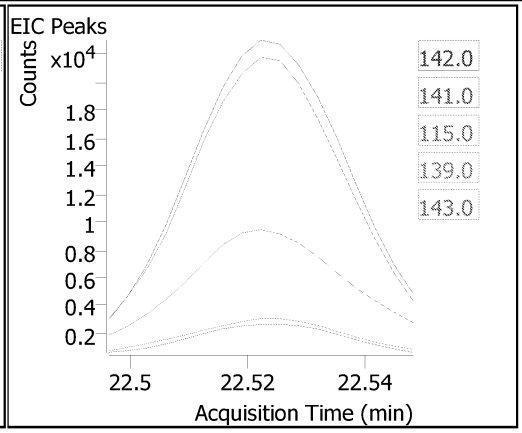
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.5222 | Naphthalene, 2-methyl- | 94635.2 | 87.4 | 91-57-6 | C11H10 | 0.2034 |

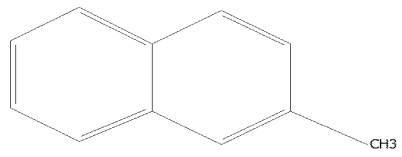


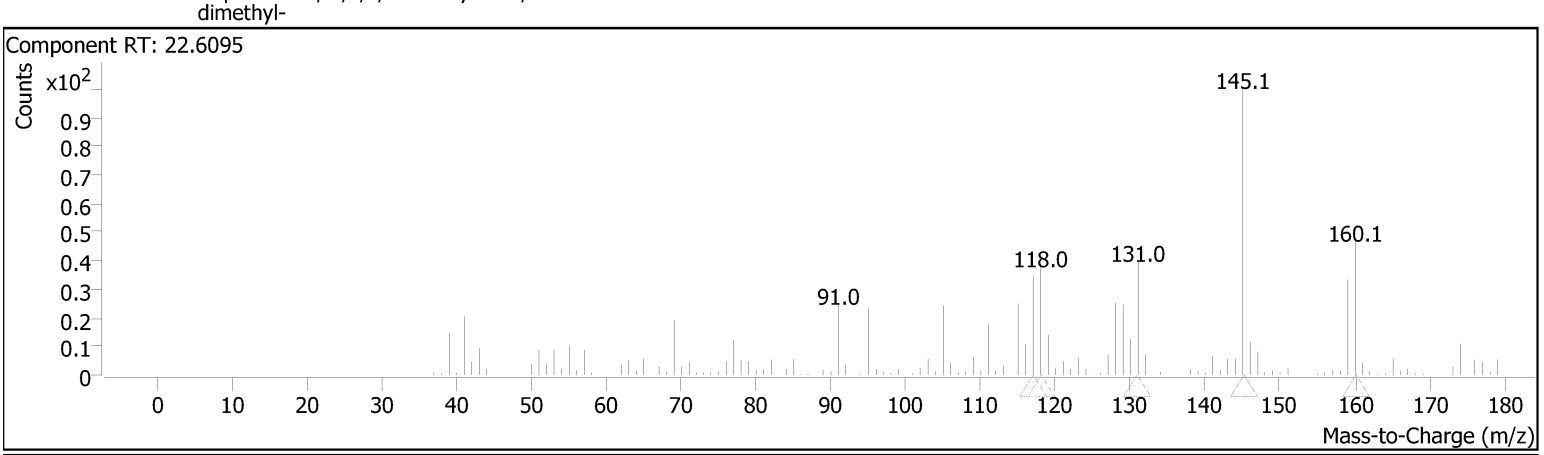



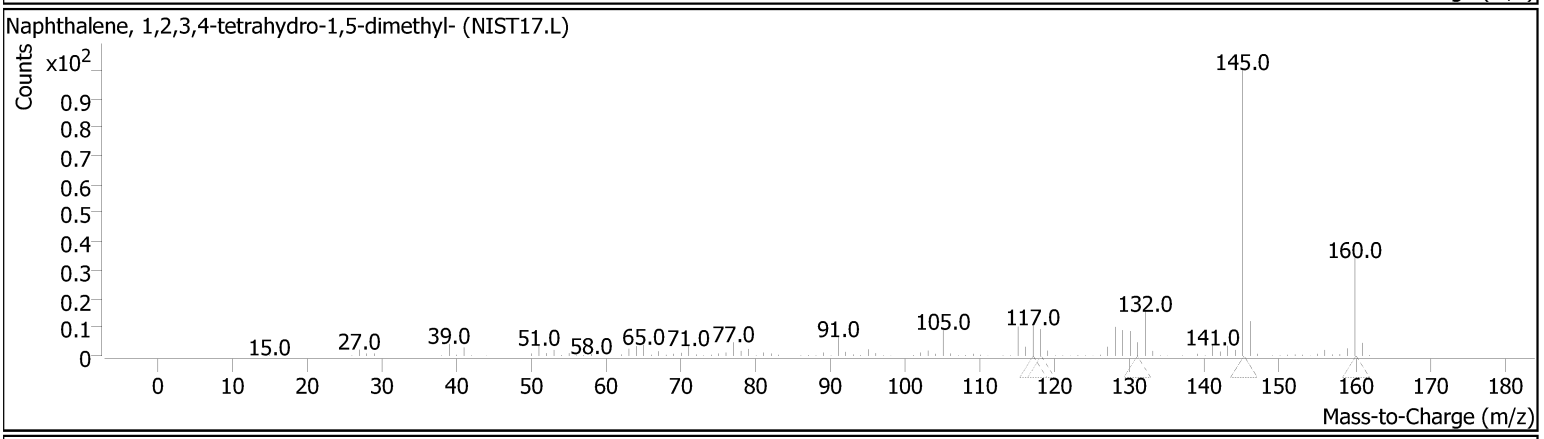



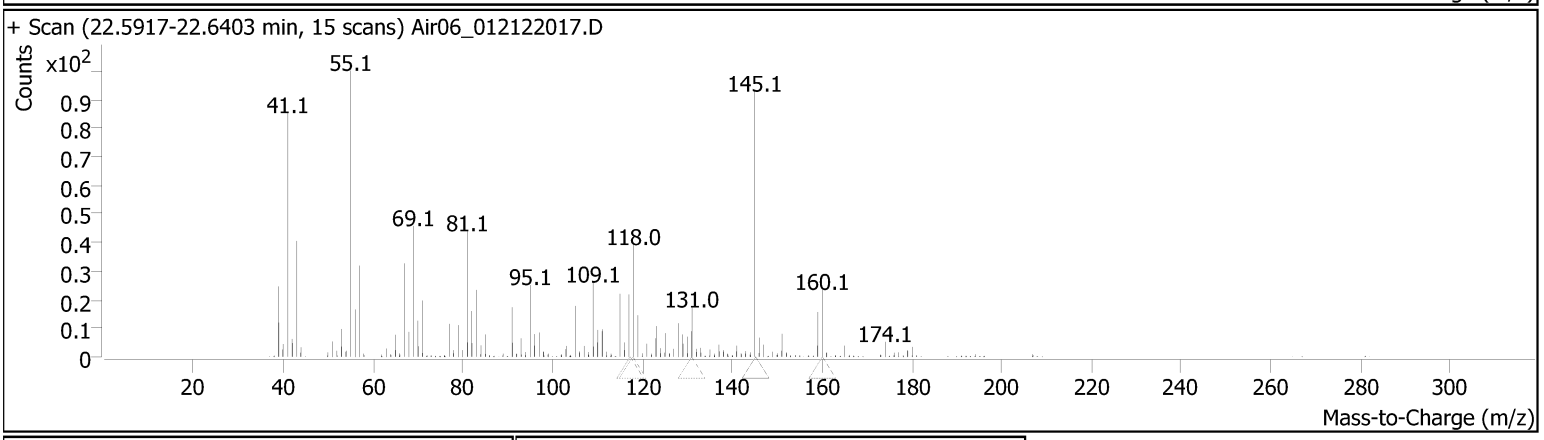
# Library Search Results - NonTarget Hits with Details

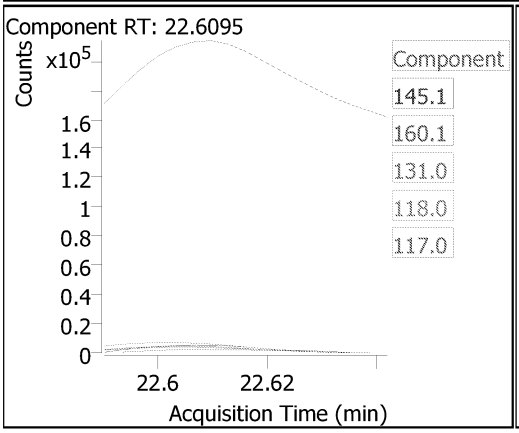
Agilent Technologies

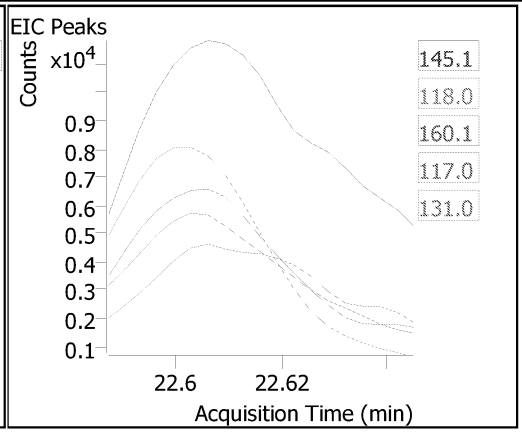
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.6095 | Naphthalene, 1,2,3,4-tetrahydro-1,5-dimethyl- | 99286.3 | 80.7 | 21564-91-0 | C12H16 | 0.2133 |

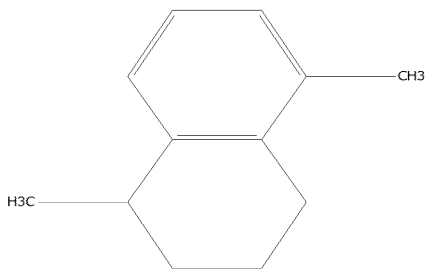


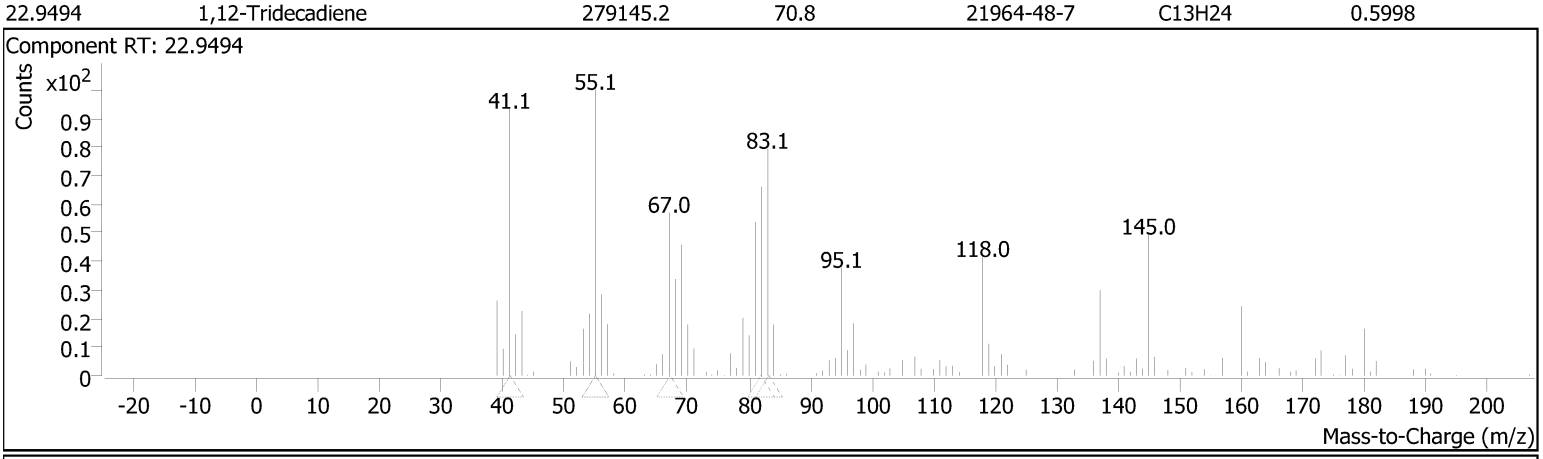



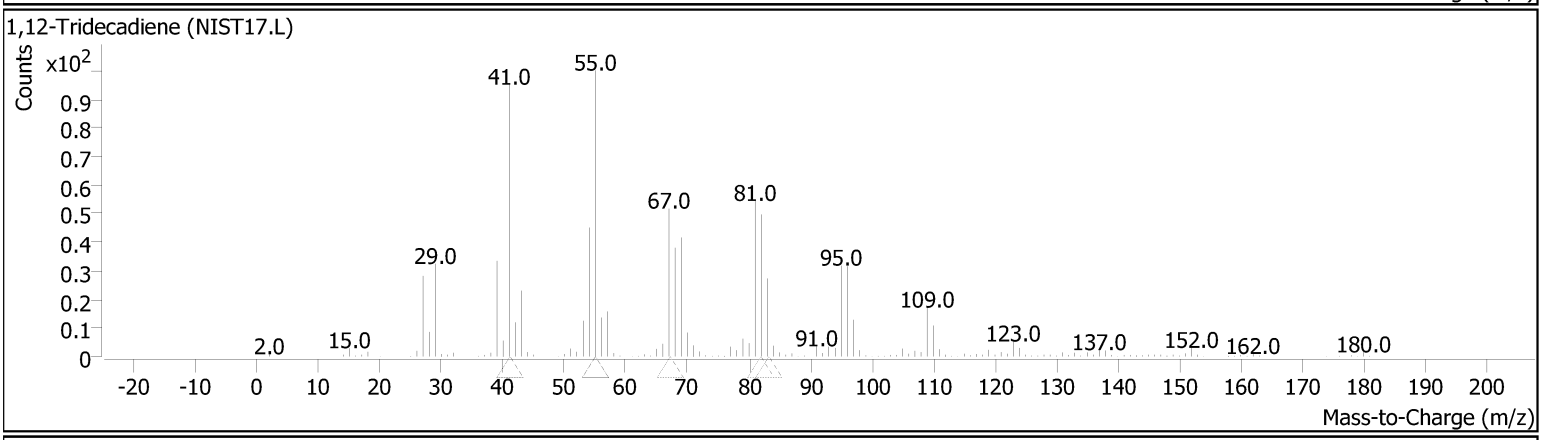



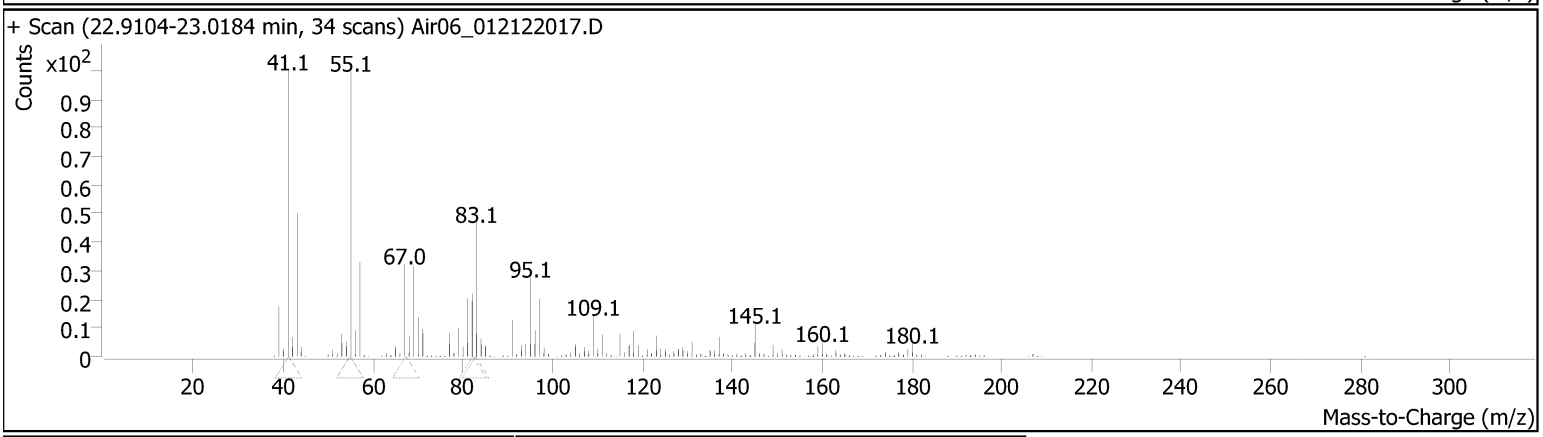



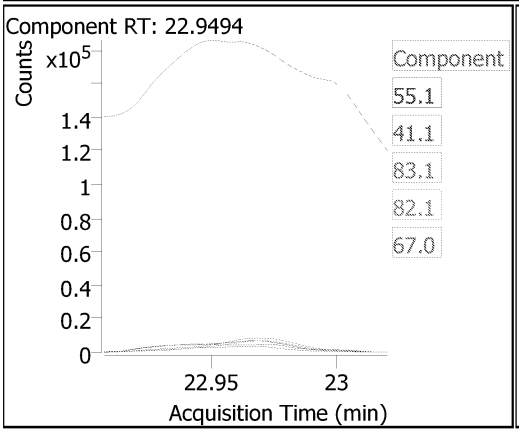



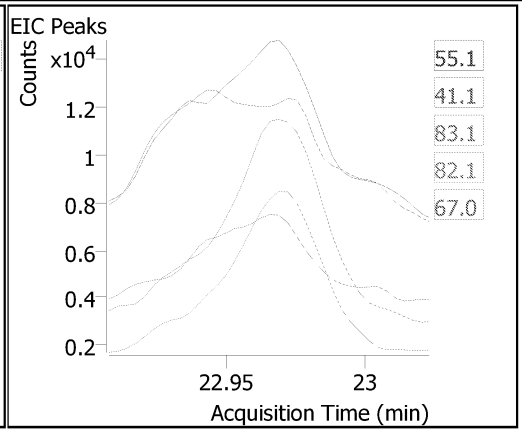
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.9494 | 1,12-Tridecadiene | 279145.2 | 70.8 | 21964-48-7 | C13H24 | 0.5998 |



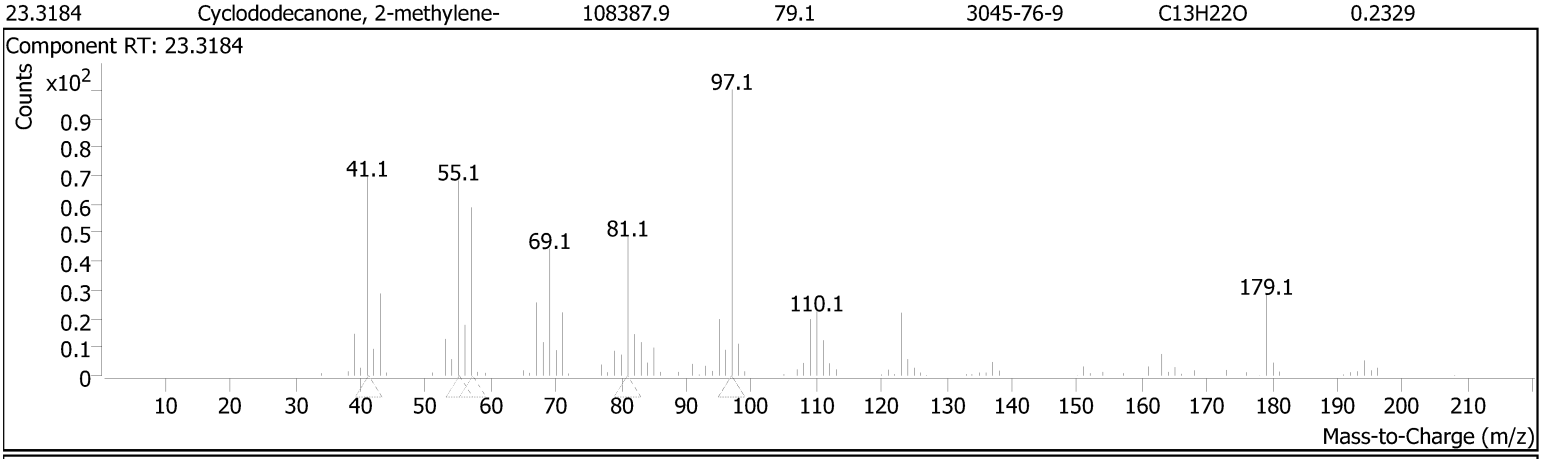



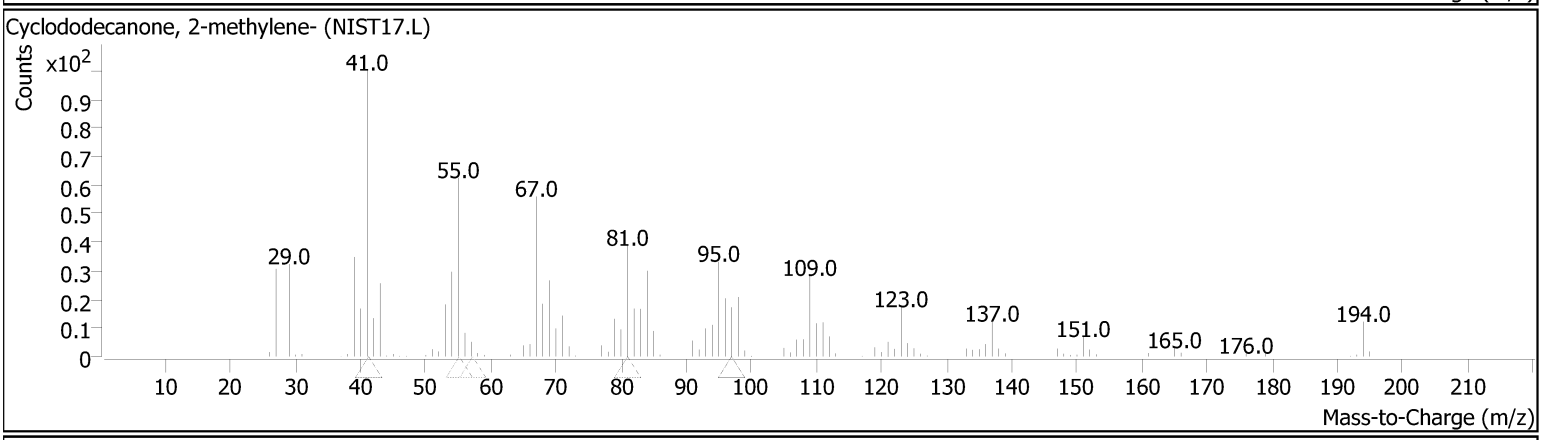



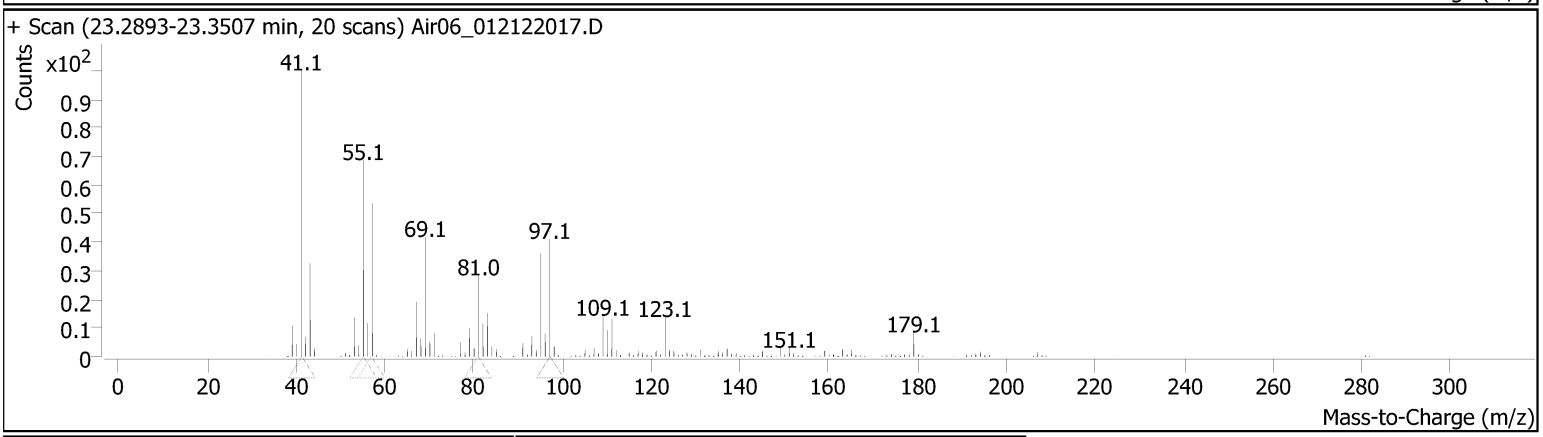



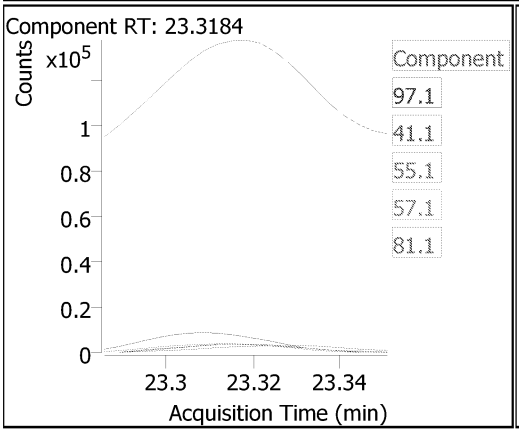


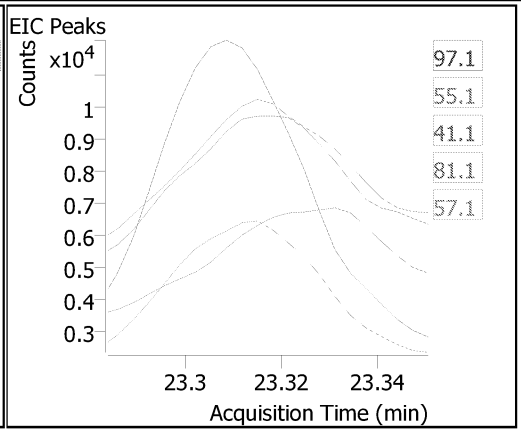

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3184 | Cyclododecanone, 2-methylene- | 108387.9 | 79.1 | 3045-76-9 | C13H22O | 0.2329 |

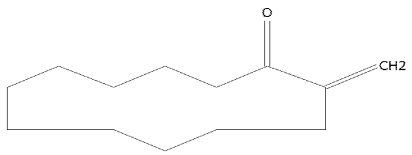


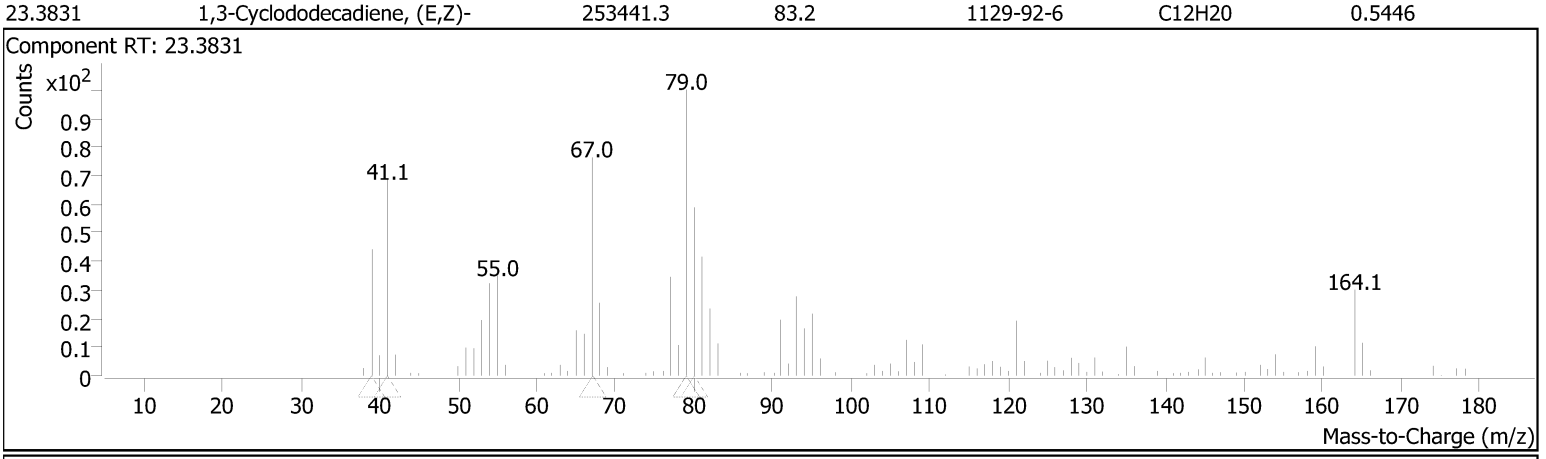



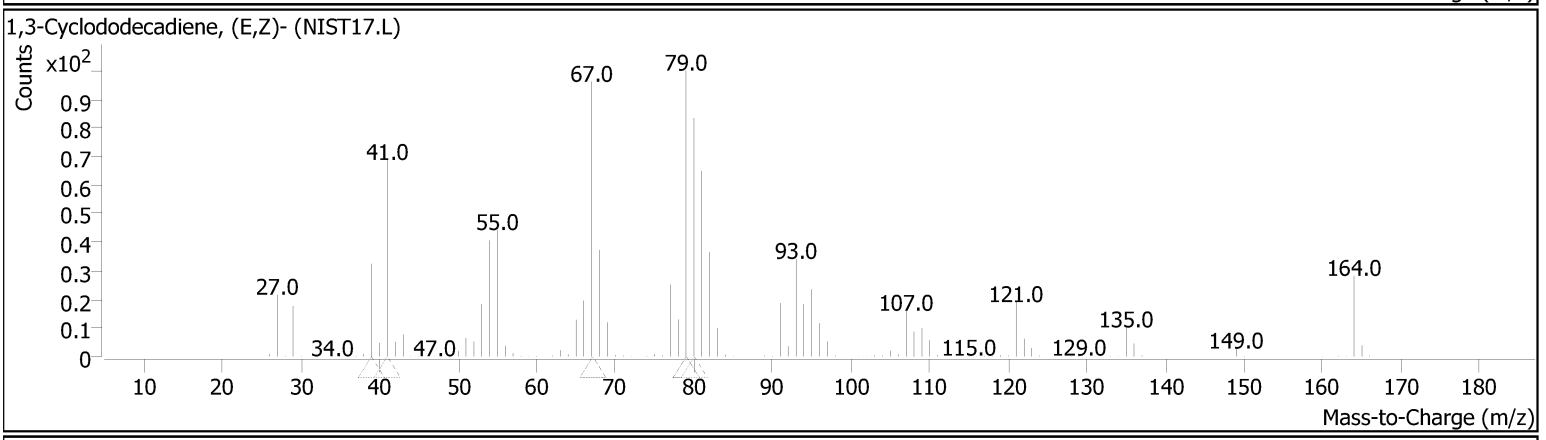



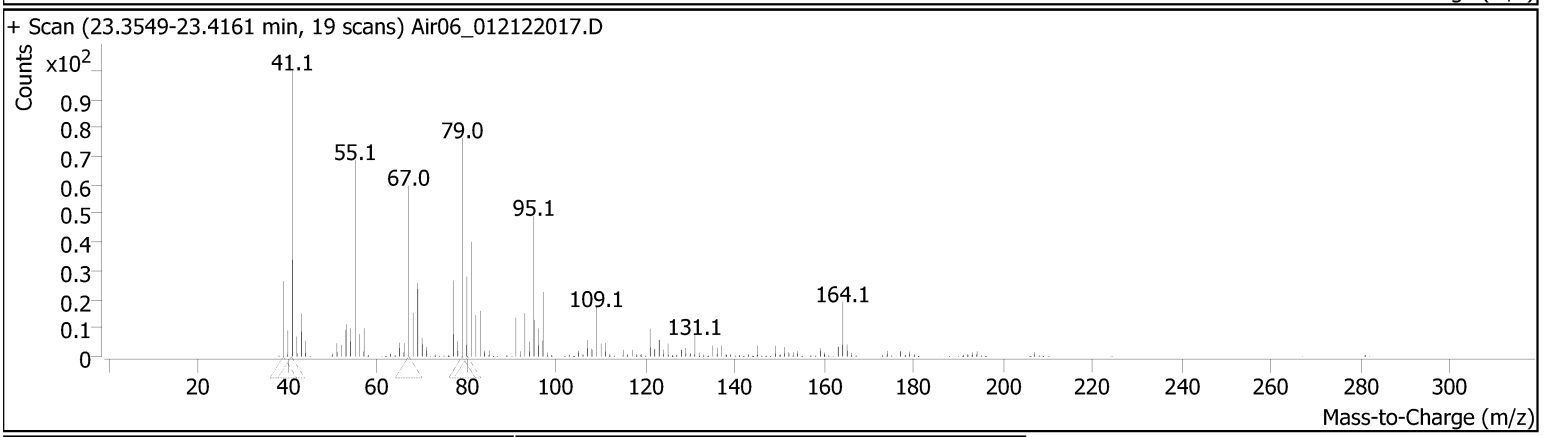
# Library Search Results - NonTarget Hits with Details

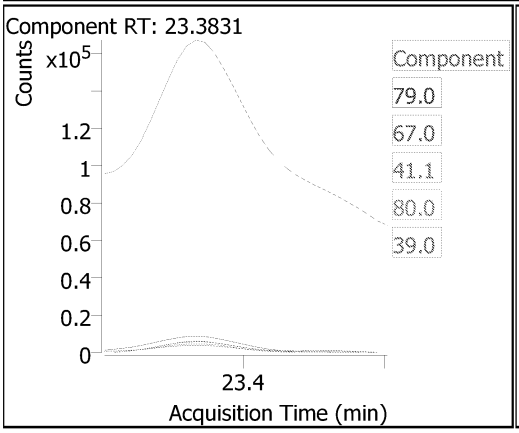
Agilent Technologies

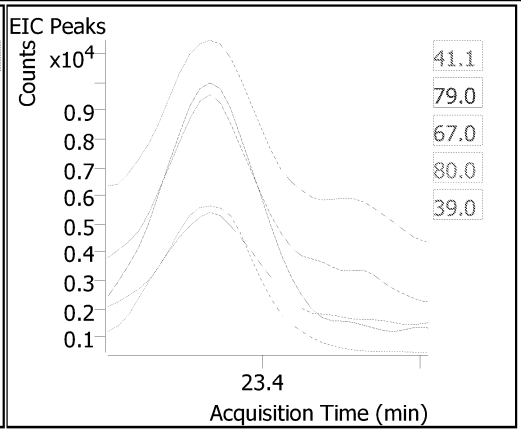
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.3831 | 1,3-Cyclododecadiene, (E,Z)- | 253441.3 | 83.2 | 1129-92-6 | C12H20 | 0.5446 |

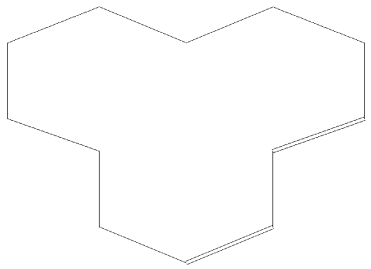


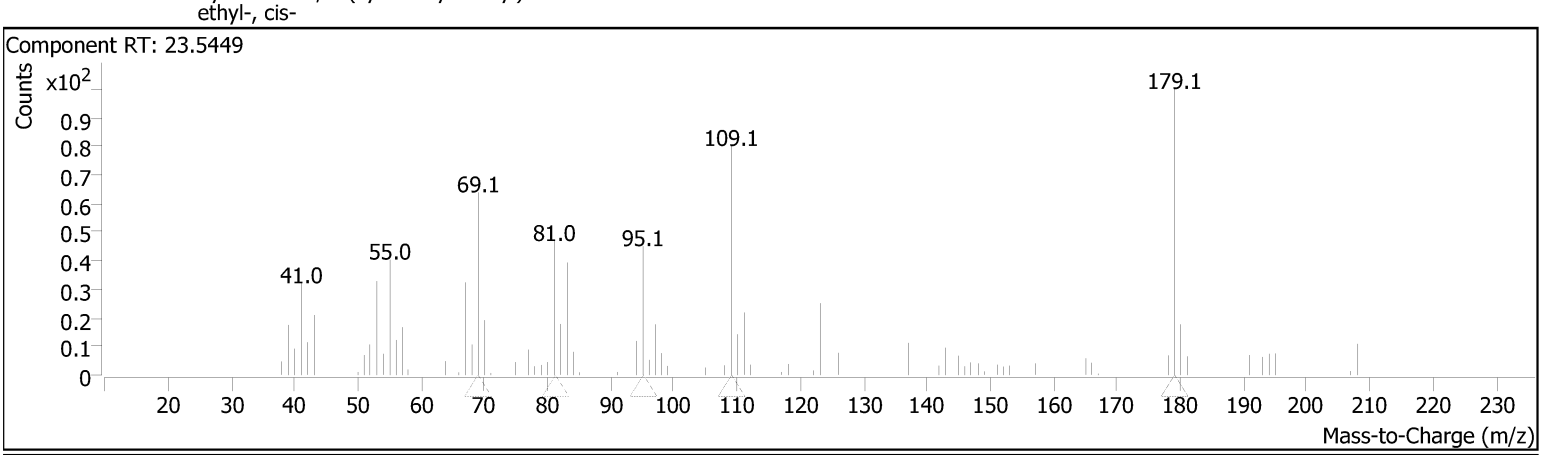



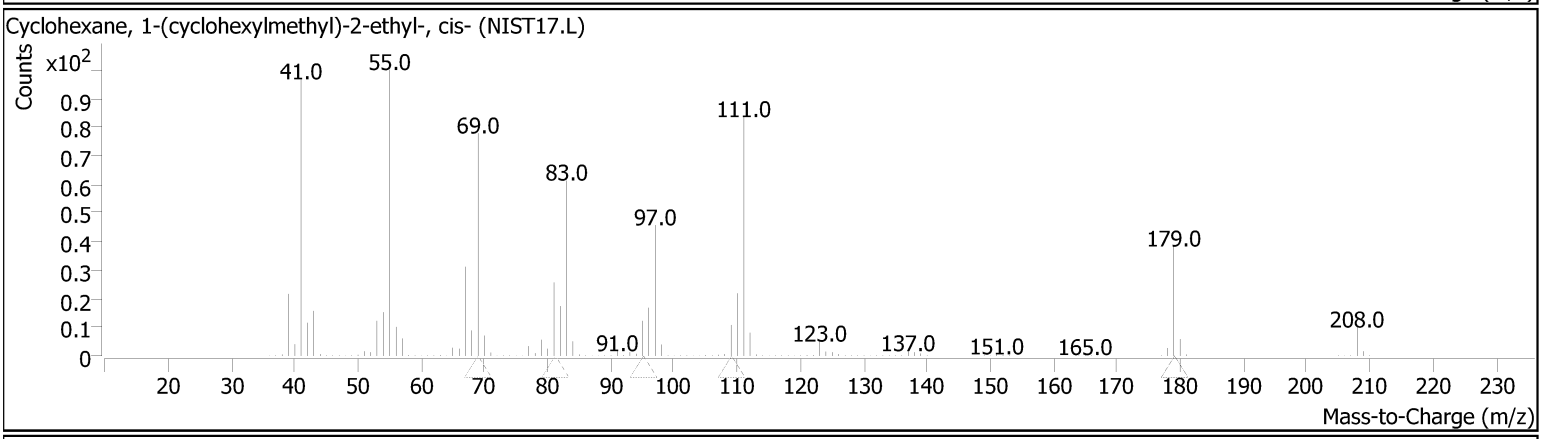



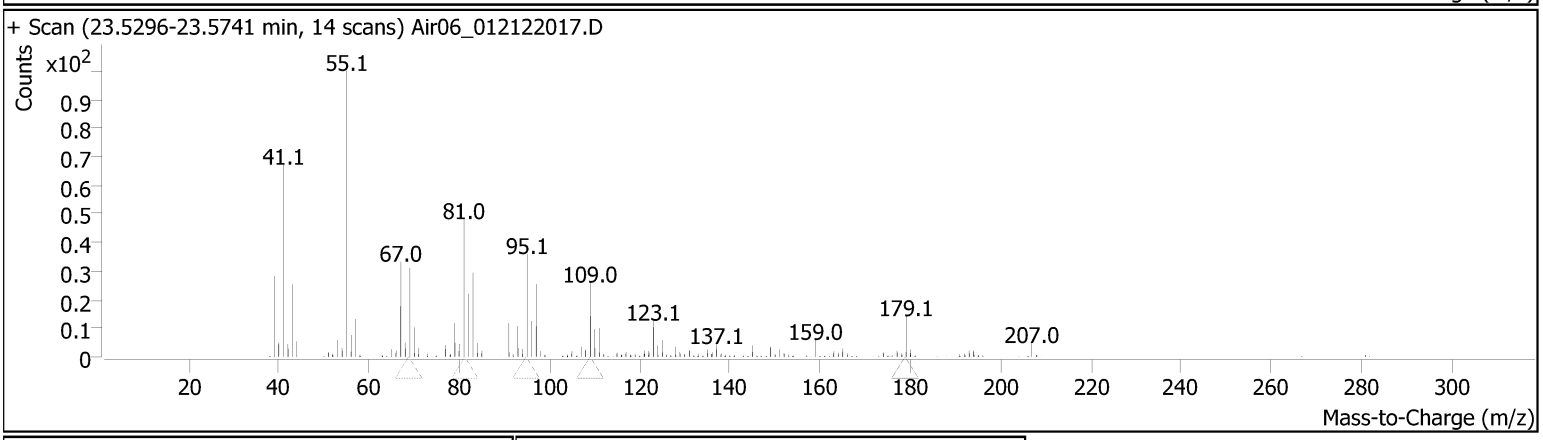



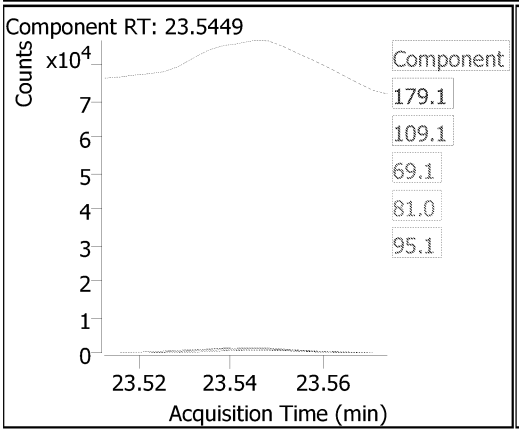



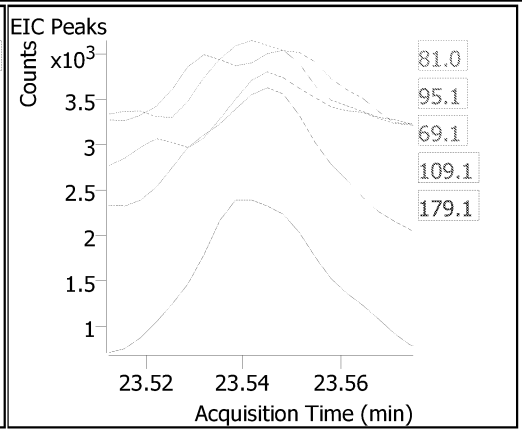
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.5449 | Cyclohexane, 1-(cyclohexylmethyl)-2-ethyl-, cis- | 23958.2 | 73.4 | 54934-93-9 | C15H28 | 0.05148 |

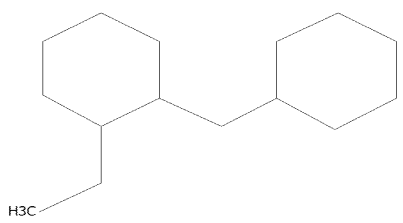


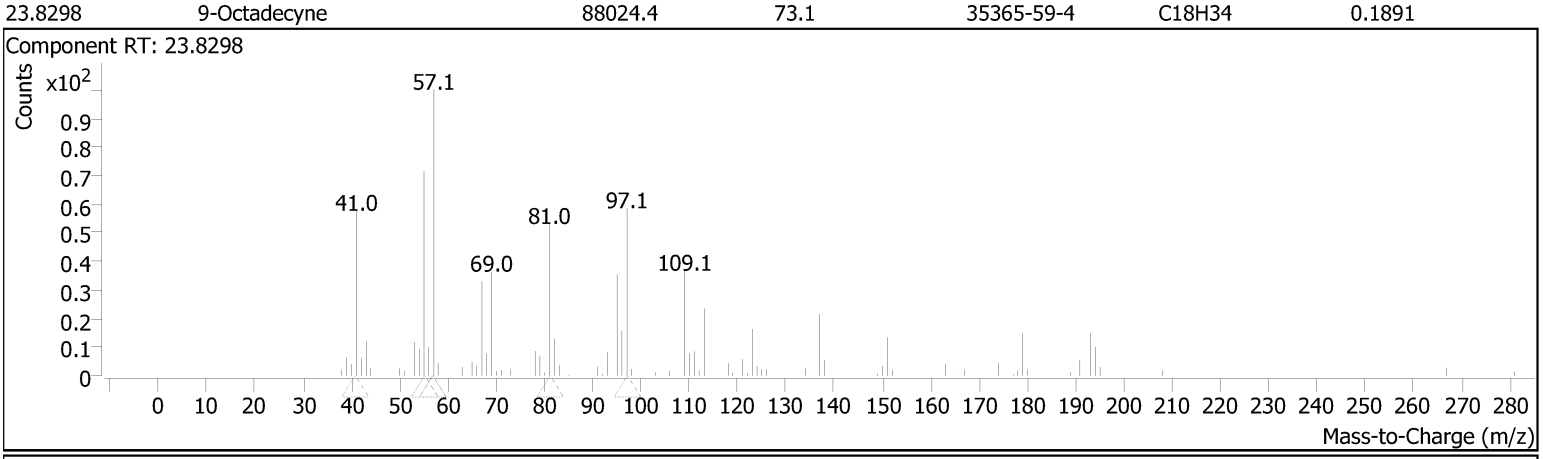



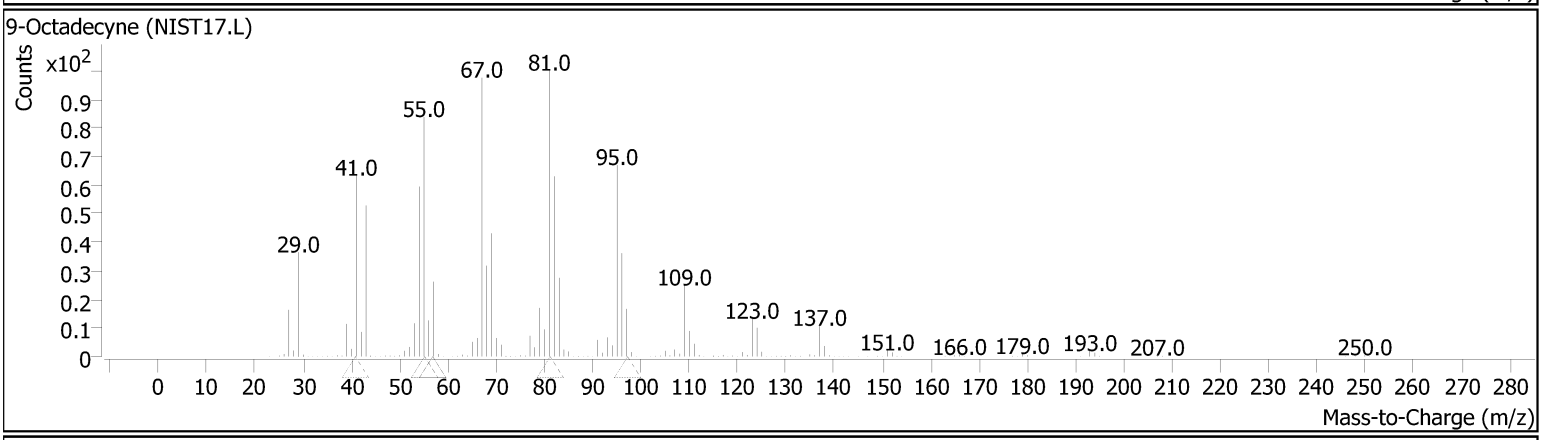



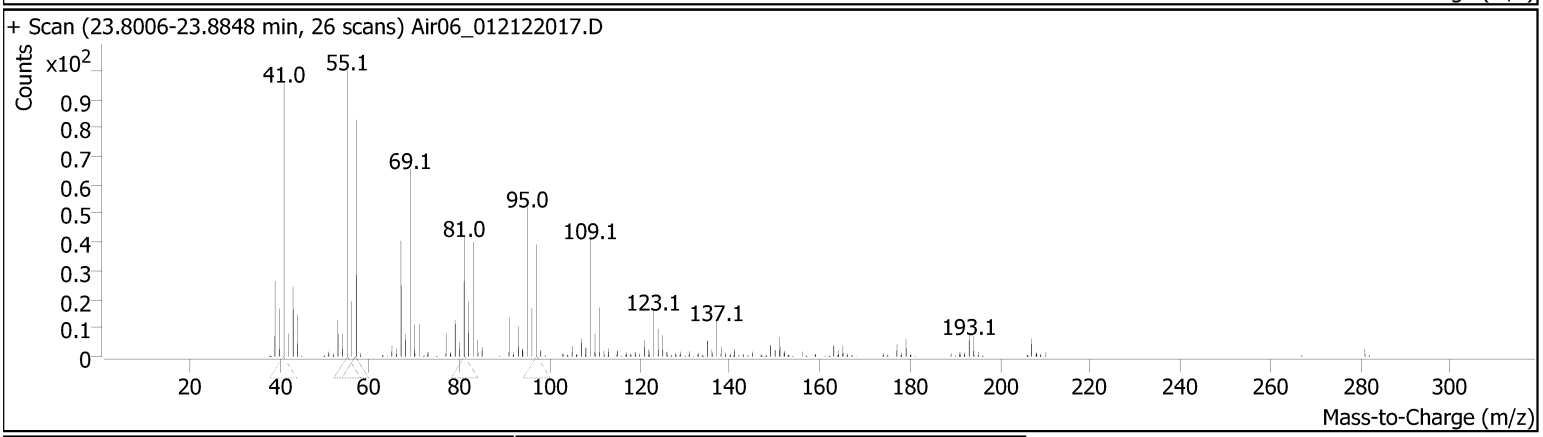
# Library Search Results - NonTarget Hits with Details

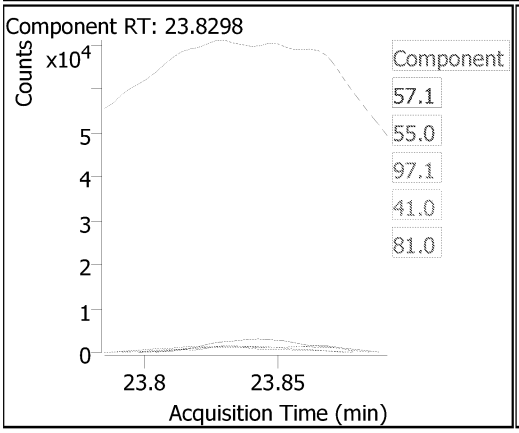
Agilent Technologies

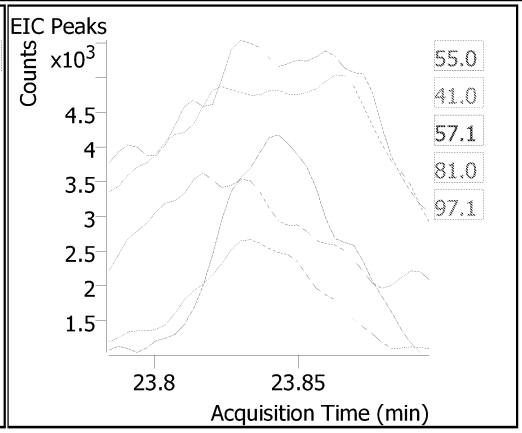
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 23.8298 | 9-Octadecyne | 88024.4 | 73.1 | 35365-59-4 | C18H34 | 0.1891 |






**QC Raw Data**

ENTHALPY BLANK USER REPORT FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-08 Lab ID : QC962866 C10661
Seqnum : 561514737008.10 Matrix : Air
File : air08_122321008 Batch : 280575 Time : 23-DEC-2021 18:10
Cal : 561483272001 Caldate : 01-DEC-2021
IDF : 1.0 Raw Units : nL/L Units : nL/L
PDF : 1.0

| Analyte | Raw | Result | RL | Flags |
|---|---|---|---|---|
| Freon 12 | 0 | ND | 0.20 | u |
| Freon 114 | 0 | ND | 0.20 | u |
| Chloromethane | 0.02111 | ND | 0.20 | u |
| Vinyl Chloride | 0 | ND | 0.20 | u |
| Bromomethane | 0 | ND | 0.20 | u |
| Chloroethane | 0 | ND | 0.20 | u |
| Trichlorofluoromethane | 0 | ND | 0.20 | u |
| 1,1-Dichloroethene | 0.06381 | ND | 0.20 | u |
| Freon 113 | 0 | ND | 0.20 | u |
| Acetone | 0.1174 | ND | 1.0 | u |
| Carbon Disulfide | 0 | ND | 0.20 | u |
| Isopropanol (IPA) | 0.05900 | ND | 1.0 | u |
| Methylene Chloride | 0.03799 | ND | 0.20 | u |
| trans-1,2-Dichloroethene | 0.002141 | ND | 0.20 | u |
| MTBE | 0 | ND | 0.20 | u |
| n-Hexane | 0 | ND | 0.20 | u |
| 1,1-Dichloroethane | 0 | ND | 0.20 | u |
| Vinyl Acetate | 0.01391 | ND | 1.0 | u |
| cis-1,2-Dichloroethene | 0 | ND | 0.20 | u |
| 2-Butanone | 0 | ND | 1.0 | u |
| Chloroform | 0 | ND | 0.20 | u |
| 1,1,1-Trichloroethane | 0 | ND | 0.20 | u |
| Carbon Tetrachloride | 0 | ND | 0.20 | u |
| Benzene | 0.01007 | ND | 0.20 | u |
| 1,2-Dichloroethane | 0 | ND | 0.20 | u |
| Trichloroethene | 0.002001 | ND | 0.20 | u |
| 1,2-Dichloropropane | 0.01021 | ND | 0.20 | u |
| Bromodichloromethane | 0 | ND | 0.20 | u |
| cis-1,3-Dichloropropene | 0 | ND | 0.20 | u |
| 4-Methyl-2-Pentanone | 0 | ND | 0.20 | u |
| Toluene | 0.01005 | ND | 0.20 | u |
| trans-1,3-Dichloropropene | 0 | ND | 0.20 | u |
| 1,1,2-Trichloroethane | 0 | ND | 0.20 | u |
| Tetrachloroethene | 0.004072 | ND | 0.20 | u |
| 2-Hexanone | 0 | ND | 0.50 | !v+ u |
| Dibromochloromethane | 0 | ND | 0.20 | u |
| 1,2-Dibromoethane | 0 | ND | 0.20 | u |
| Chlorobenzene | 0.003862 | ND | 0.20 | u |
| Ethylbenzene | 0.009036 | ND | 0.20 | u |
| m,p-Xylenes | 0.01135 | ND | 0.40 | u |
| o-Xylene | 0.002171 | ND | 0.20 | u |
| Styrene | 0.007166 | ND | 0.20 | !v+ u |
| Bromoform | 0 | ND | 0.20 | u |
| 1,1,2,2-Tetrachloroethane | 0.001376 | ND | 0.20 | u |
| 1,1,1,2-Tetrachloroethane | 0 | ND | 0.20 | u |
| 4-Ethyltoluene | 0.008701 | ND | 0.20 | u |
| 1,3,5-Trimethylbenzene | 0.01004 | ND | 0.20 | u |

| Analyte | Raw | Result | RL | Flags |
|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.007649 | ND | 0.20 | u |
| 1,3-Dichlorobenzene | 0.01531 | ND | 0.20 | !v- u |
| 1,4-Dichlorobenzene | 0.01294 | ND | 0.20 | u |
| Benzyl chloride | 0.01086 | ND | 0.20 | !v+ u |
| 1,2-Dichlorobenzene | 0.01115 | ND | 0.20 | u |
| 1,2,4-Trichlorobenzene | 0.06378 | ND | 0.20 | u |
| Hexachlorobutadiene | 0.02005 | ND | 0.20 | u |

**TICs not entered.**

| Surrogate | Raw | Spiked | Result | %Rec | Limits | Flags |
|---|---|---|---|---|---|---|
| Bromofluorobenzene | 9.624 | 10.00 | 9.624 | 96 | 60-140 | u |

| ISTD (ICAL air08_120121011) | ICAL Area | BLANK Area | %Drift | ICAL RT | BLANK RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 154053 | 123314 | -19.95 | 8.16 | 8.16 | 0.00 |
| 1,4-Difluorobenzene | 511121 | 400158 | -21.71 | 9.89 | 9.89 | 0.00 |
| Chlorobenzene-d5 | 283492 | 222426 | -21.54 | 13.95 | 13.94 | -0.01 |

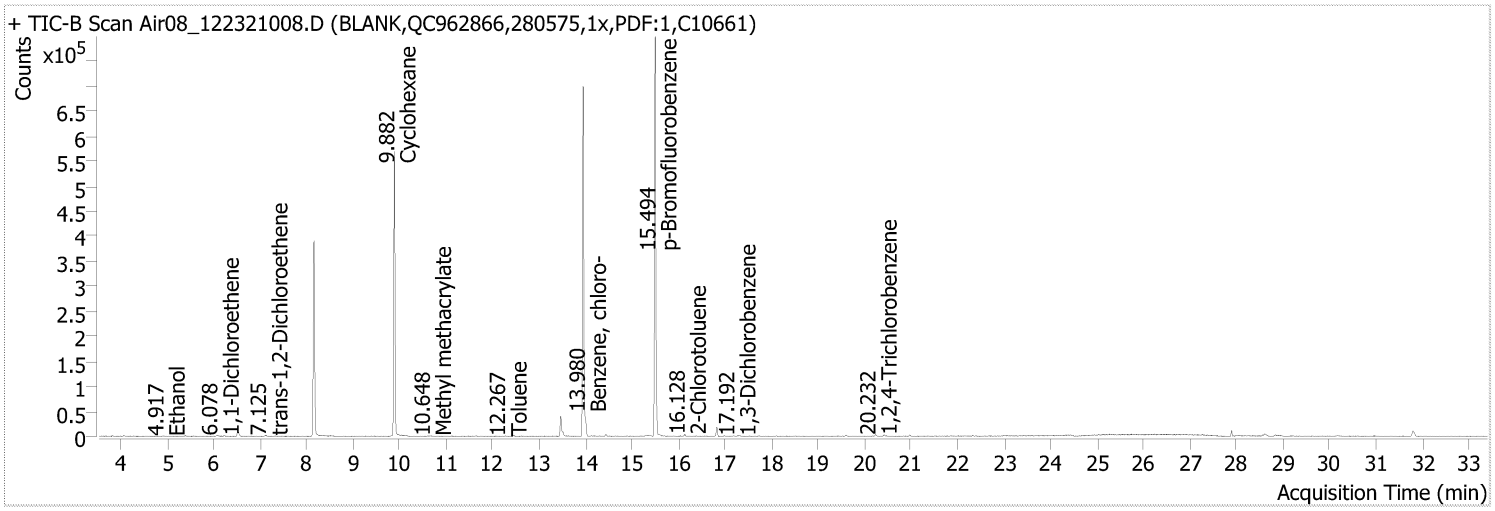
LW 01/27/22 : cancheck

Analyst: DJL Date: 01/26/22 Reviewer: LW Date: 01/27/22

!=warning +=high bias -=low bias u=use v=ICV

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air08_122321008.D | Operator | ZNZ/DJL/LJB |
| Acq. Method | TO15_Acq_111920 | Acq. Date-Time | 12/23/2021 6:10:31 PM |
| Sample Name | BLANK,QC962866,280575,1x,PDF:1,C10661 | Instrument | Air-MS-08 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_120121.m | Comment | 1x200mL |
| Tune File | bfb.u | Tune Date | 10/29/2021 10:10:17 AM |
| Batch Name | 2021 Dec 23 1511 TO15_120121.m.batch.bin | Last Calib Update | 12/2/2021 11:23:55 AM |
| Ref Library | D:\MassHunter\GCMS\1\data\092221\092221_ICAL.reflibrary.xml | | |




| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.156 | 130.0 | 123314 | 10.0000 | nL/L | | -0.008 |
| M 1,4-Difluorobenzene | 9.885 | 114.0 | 400158 | 10.0000 | nL/L | | -0.004 |
| M Chlorobenzene-d5 | 13.942 | 82.0 | 222426 | 10.0000 | nL/L | # | -0.006 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.494 | 174.0 | 248757 | 9.6241 | nL/L | | 0.000 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 96.24% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.670 | 41.0 | 537 | 0.0350 | nL/L | # | 71 |
| T Freon 12 | 0.000 | | 0 | N.D. | | | |
| T Chloromethane | 3.943 | 50.0 | 432 | 0.0211 | nL/L | # | 57 |
| T Freon 114 | 0.000 | | 0 | N.D. | | | |
| T Vinyl Chloride | 0.000 | | 0 | N.D. | | | |
| T 1,3-Butadiene | 0.000 | | 0 | N.D. | | | |
| T Butane | 4.383 | 43.0 | 96 | 0.0039 | nL/L | # | 1 |
| T Bromomethane | 0.000 | | 0 | N.D. | | | |
| T Chloroethane | 0.000 | | 0 | N.D. | | | |
| T Ethanol | 4.917 | 45.0 | 1129 | 0.2075 | nL/L | # | 71 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 0.000 | | 0 | N.D. | | | |
| T Acetone | 5.414 | 58.0 | 1125 | 0.1174 | nL/L | | 55 |
| T Isopropanol (IPA) | 5.566 | 45.0 | 1966 | 0.0590 | nL/L | | 63 |
| T Trichloromonofluoromethane | 0.000 | | 0 | N.D. | | | |
| T n-Pentane | 6.078 | 43.0 | 262 | 0.0102 | nL/L | | 63 |
| T Tert-butyl alcohol (TBA) | 6.070 | 59.0 | 78 | 0.0028 | nL/L | | 59 |
| T 1,1-Dichloroethene | 6.078 | 61.0 | 1804 | 0.0638 | nL/L | | 36 |
| T Methylene Chloride | 6.002 | 51.0 | 327 | 0.0380 | nL/L | | 1 |
| T 3-Chloropropene | 0.000 | | 0 | N.D. | | | |
| T Freon 113 | 0.000 | | 0 | N.D. | | | |
| T Carbon Disulfide | 0.000 | | 0 | N.D. | | | |

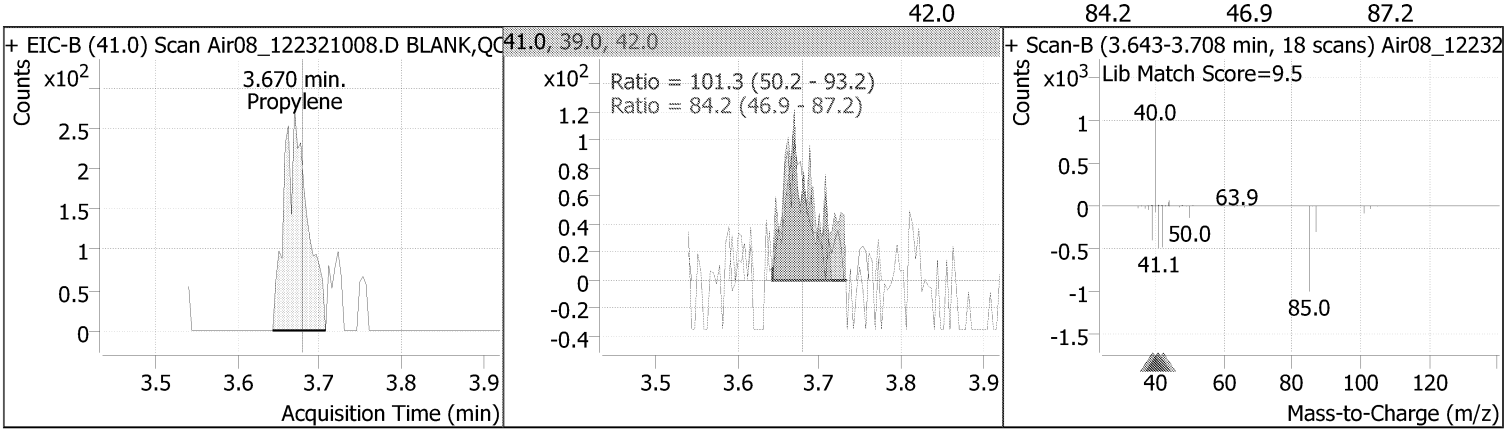
| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.125 | 61.0 | 49 | 0.0021 | nL/L | | 37 |
| T 1,1-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T MTBE | 0.000 | | 0 | N.D. | | | |
| T Vinyl Acetate | 7.303 | 43.0 | 473 | 0.0139 | nL/L | | 80 |
| T 2-Butanone | 0.000 | | 0 | N.D. | | | |
| T cis-1,2-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Ethyl Acetate | 0.000 | | 0 | N.D. | | | |
| T n-Hexane | 0.000 | | 0 | N.D. | | | |
| T Chloroform | 0.000 | | 0 | N.D. | | | |
| T Tetrahydrofuran | 0.000 | | 0 | N.D. | | | |
| T 1,2-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T TPH Gasoline (C3 to C12) | 9.544 | 0.0 | 388214 | 0.1816 | nL/L | | 96 |
| T Benzene | 9.612 | 78.0 | 372 | 0.0101 | nL/L | | 52 |
| T Carbon Tetrachloride | 0.000 | | 0 | N.D. | | | |
| T Cyclohexane | 9.882 | 84.0 | 1521 | 0.0883 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 10.159 | 63.0 | 165 | 0.0102 | nL/L | | 31 |
| T Methane, bromodichloro- | 0.000 | | 0 | N.D. | | | |
| T 1,4-Dioxane | 0.000 | | 0 | N.D. | | | |
| T Trichloroethene | 10.557 | 132.0 | 32 | 0.0020 | nL/L | # | 1 |
| T 2,2,4-Trimethylpentane | 0.000 | | 0 | N.D. | | | |
| T Methyl methacrylate | 10.648 | 69.0 | 32 | 0.0030 | nL/L | | 44 |
| T n-Heptane | 0.000 | | 0 | N.D. | | | |
| T cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 4-Methyl-2-Pentanone | 0.000 | | 0 | N.D. | | | |
| T trans-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 1,1,2-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Toluene | 12.267 | 91.0 | 418 | 0.0101 | nL/L | # | 84 |
| T 2-Hexanone | 0.000 | | 0 | N.D. | | | |
| T Dibromochloromethane | 0.000 | | 0 | N.D. | | | |
| T 1,2-Dibromoethane | 0.000 | | 0 | N.D. | | | |
| T Tetrachloroethene | 13.333 | 166.0 | 95 | 0.0041 | nL/L | # | 52 |
| T 1,1,1,2-Tetrachloroethane | 0.000 | | 0 | N.D. | | | |
| T Benzene, chloro- | 13.980 | 112.0 | 138 | 0.0039 | nL/L | # | 1 |
| T Ethylbenzene | 14.340 | 91.0 | 489 | 0.0090 | nL/L | | 85 |
| T m,p-Xylenes | 14.340 | 91.0 | 489 | 0.0113 | nL/L | # | 61 |
| T Bromoform | 0.000 | | 0 | N.D. | | | |
| T Styrene | 14.904 | 104.0 | 208 | 0.0072 | nL/L | # | 64 |
| T 1,1,2,2-Tetrachloroethane | 14.989 | 83.0 | 49 | 0.0014 | nL/L | | 27 |
| T o-Xylene | 15.000 | 91.0 | 99 | 0.0022 | nL/L | | 37 |
| T n-Nonane | 0.000 | | 0 | N.D. | | | |
| T Isopropylbenzene | 15.629 | 105.0 | 70 | 0.0011 | nL/L | | 55 |
| T 2-Chlorotoluene | 16.128 | 126.0 | 284 | 0.0166 | nL/L | # | 1 |
| T n-Propylbenzene | 16.375 | 120.0 | 127 | 0.0073 | nL/L | | 1 |
| T 4-Ethyltoluene | 16.381 | 105.1 | 527 | 0.0087 | nL/L | | 100 |
| T 1,3,5-Trimethylbenzene | 16.381 | 105.0 | 527 | 0.0100 | nL/L | # | 63 |
| T 1,2,4-Trimethylbenzene | 16.977 | 105.1 | 409 | 0.0076 | nL/L | | 95 |
| T Benzyl chloride | 17.149 | 91.0 | 470 | 0.0109 | nL/L | # | 81 |
| T 1,3-Dichlorobenzene | 17.192 | 146.0 | 616 | 0.0153 | nL/L | # | 45 |
| T 1,4-Dichlorobenzene | 17.267 | 146.0 | 509 | 0.0129 | nL/L | # | 69 |
| T 1,2-Dichlorobenzene | 17.723 | 146.0 | 458 | 0.0112 | nL/L | # | 90 |
| T 1,2,4-Trichlorobenzene | 20.232 | 180.0 | 1760 | 0.0638 | nL/L | | 92 |
| T Naphthalene | 20.425 | 128.0 | 3904 | 0.0798 | nL/L | # | 91 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 20.973 | 225.0 | 679 | 0.0200 | nL/L | # | 52 |

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

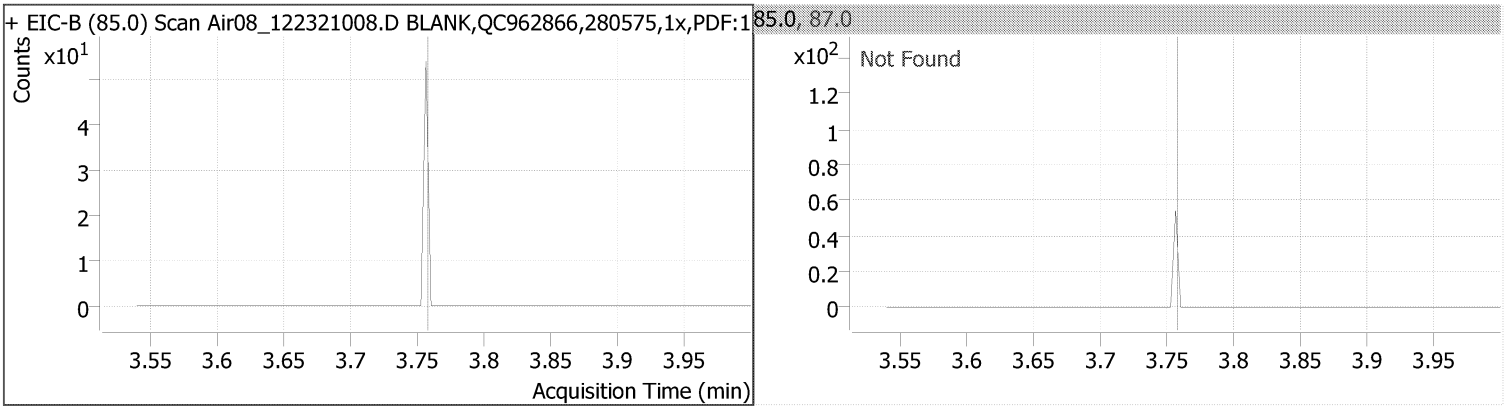
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

# Quantitation Results Report (Not Reviewed)

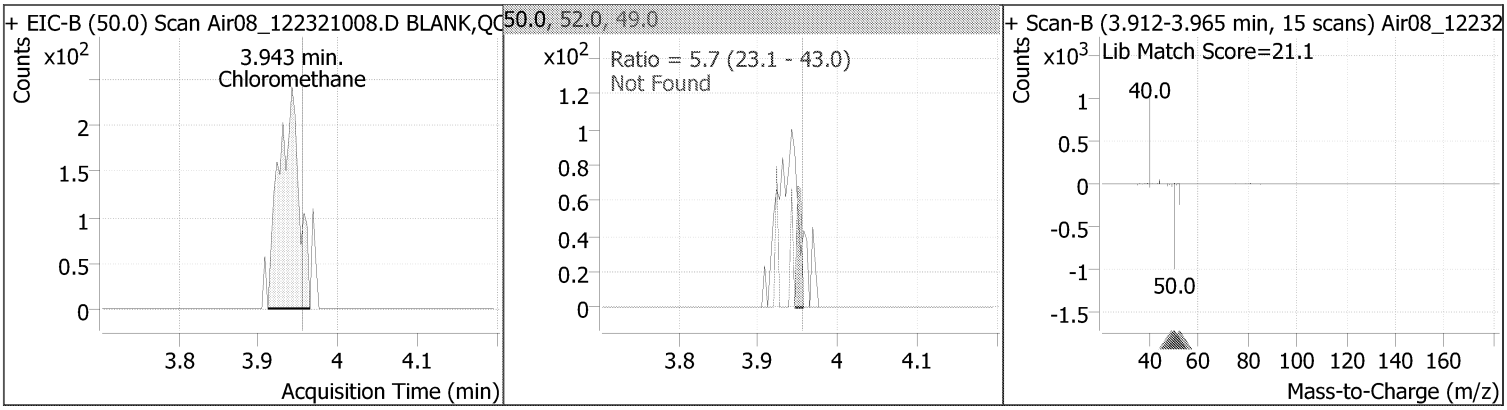
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.0350 | 3.67 | -0.01 | 537 | 39.0 | 101.3 | 50.2 | 93.2 |
| | | | | | 42.0 | 84.2 | 46.9 | 87.2 |



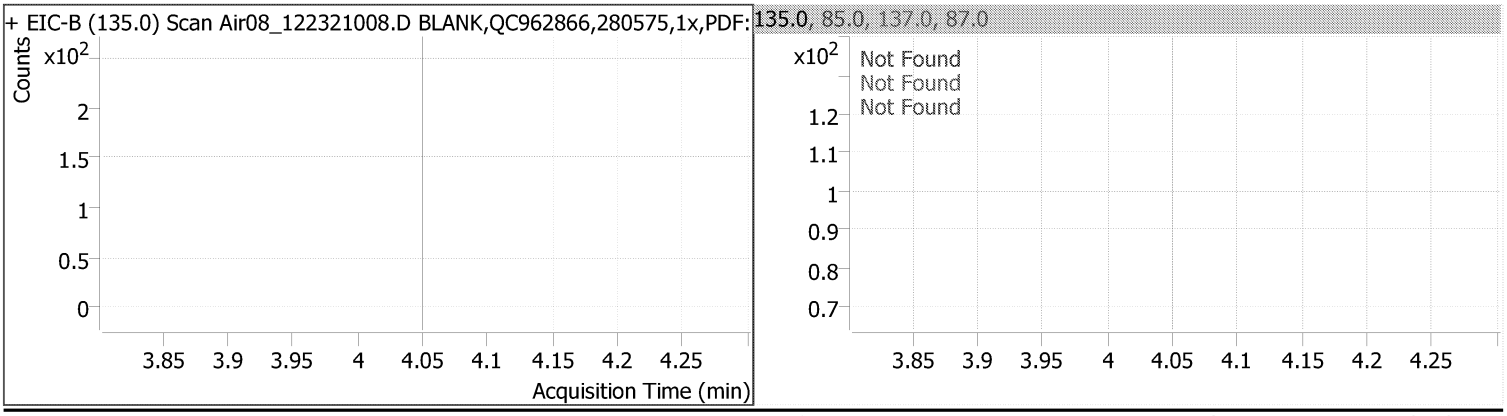

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Freon 12 | N.D. | 3.76 | 87.0 | 32.3 |



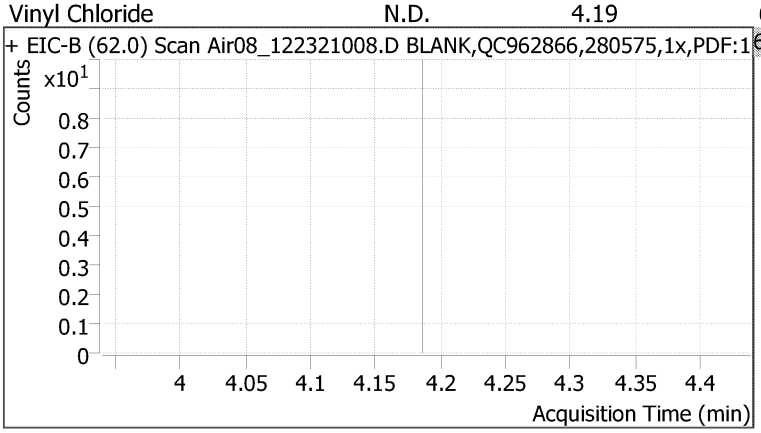

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0211 | 3.94 | -0.02 | 432 | 52.0 | 5.7 | 23.1 | 43.0 |
| | | | | | 49.0 | | 7.2 | 13.4 |

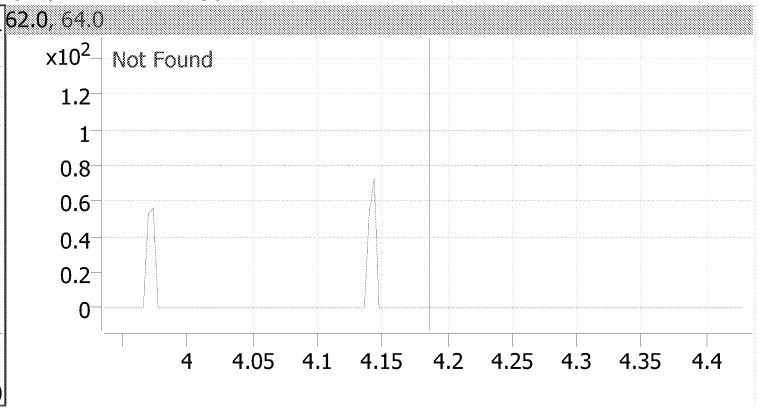



| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | N.D. | 4.05 | 85.0 | 146.9 | 87.0 | 47.5 | 137.0 | 32.4 |

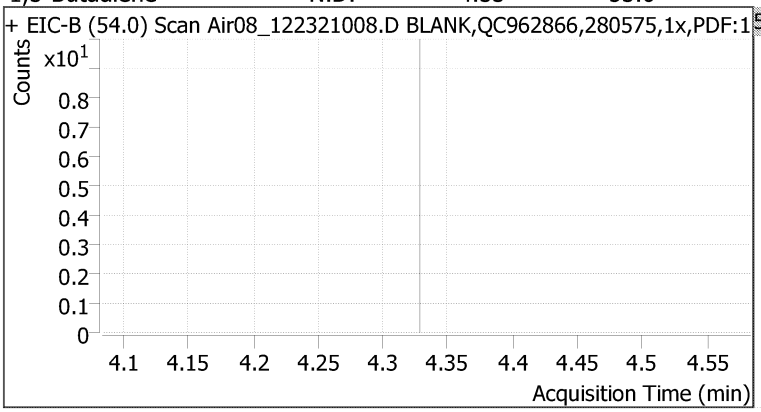


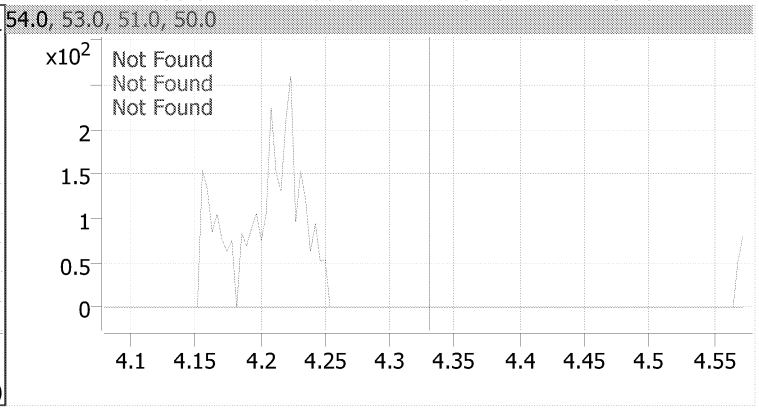
| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Vinyl Chloride | N.D. | 4.19 | 64.0 | 30.1 |



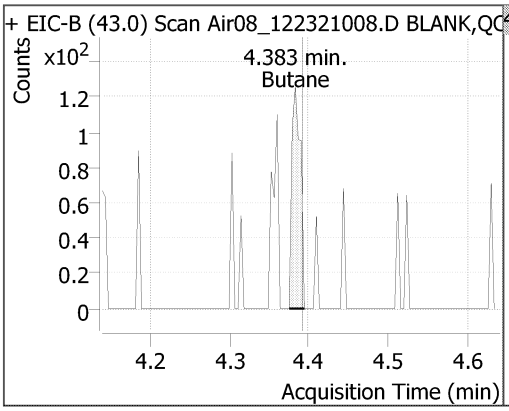



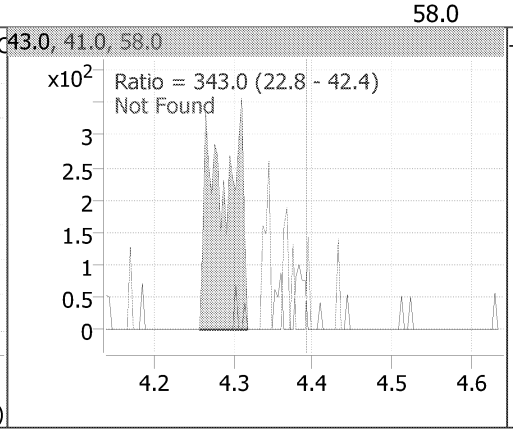

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | N.D. | 4.33 | 53.0 | 72.2 | 50.0 | 36.8 | 51.0 | 31.5 |

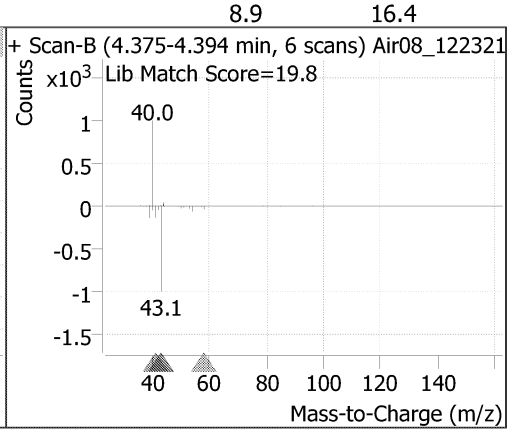


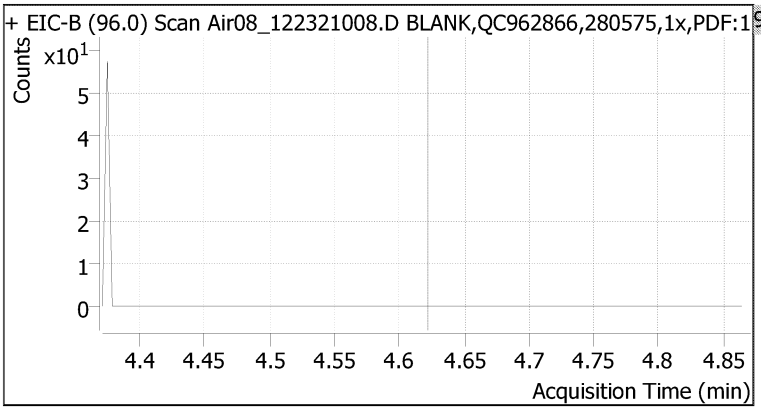

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0039 | 4.38 | -0.01 | 96 | 41.0 | 343.0 | 22.8 | 42.4 |
| | | | | | 58.0 | | 8.9 | 16.4 |

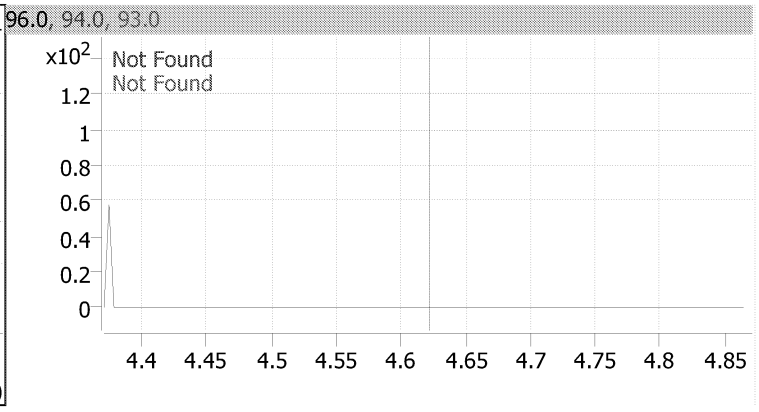


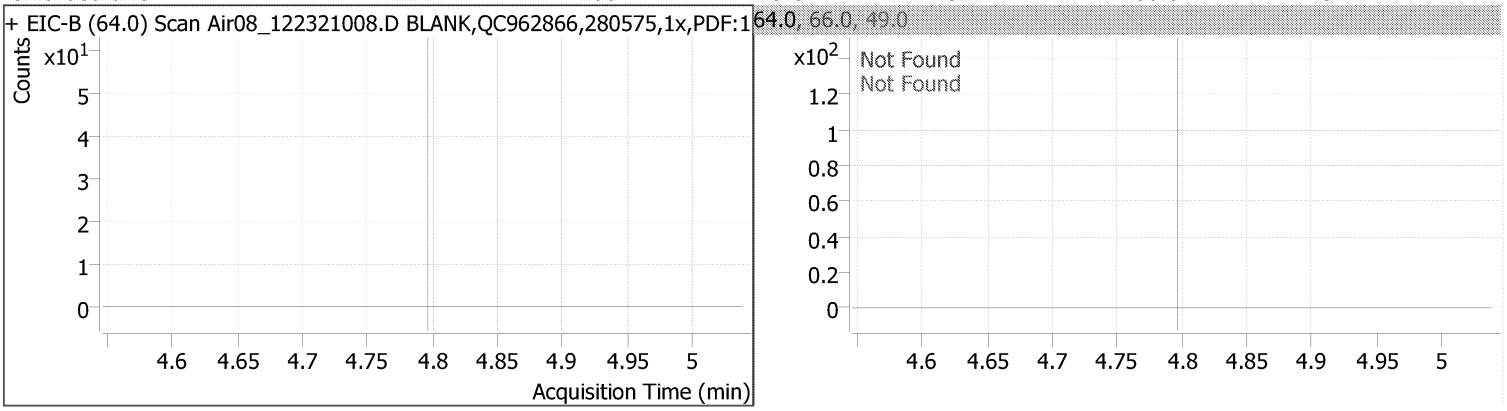




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Bromomethane | N.D. | 4.63 | 94.0 | 104.8 | 93.0 | 21.9 |

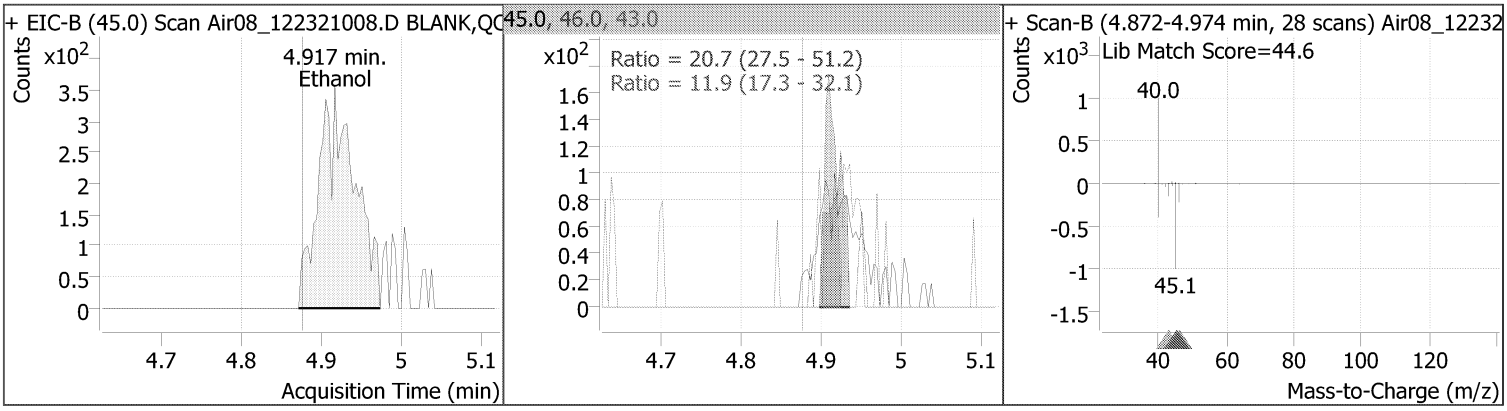


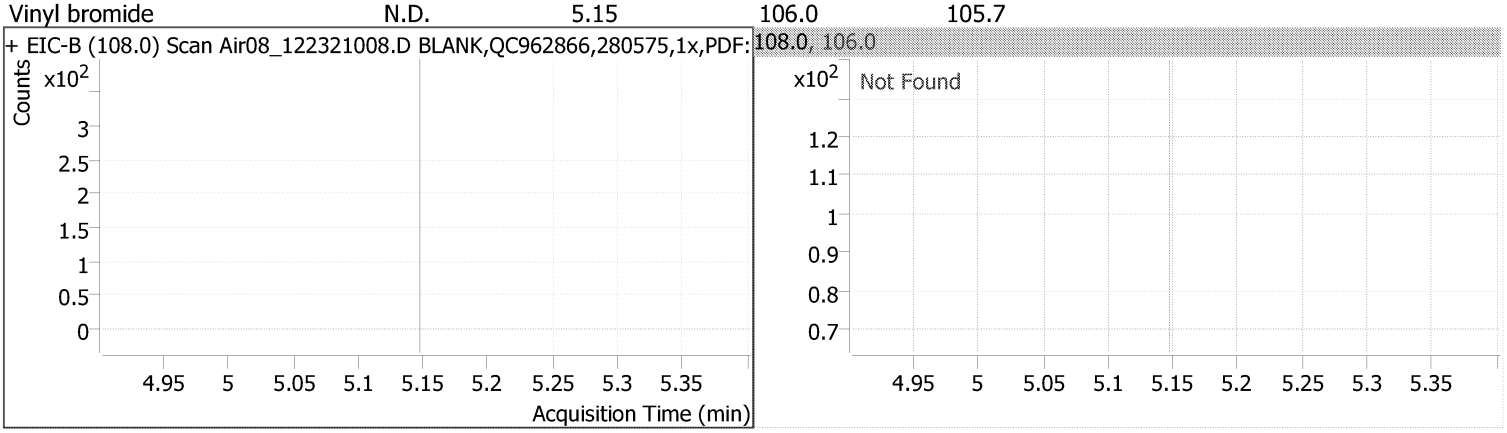
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Chloroethane | N.D. | 4.80 | 49.0 | 32.4 | 66.0 | 31.1 |



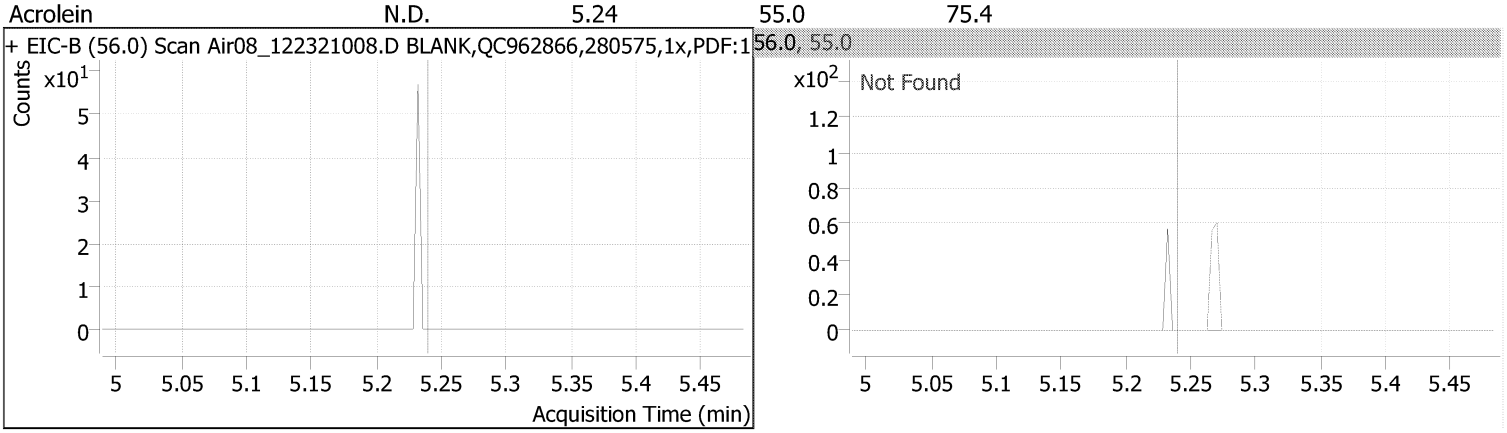

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.2075 | 4.92 | 0.04 | 1129 | 46.0 | 20.7 | 27.5 | 51.2 |
| | | | | | 43.0 | 11.9 | 17.3 | 32.1 |




| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.15 | 106.0 | 105.7 |

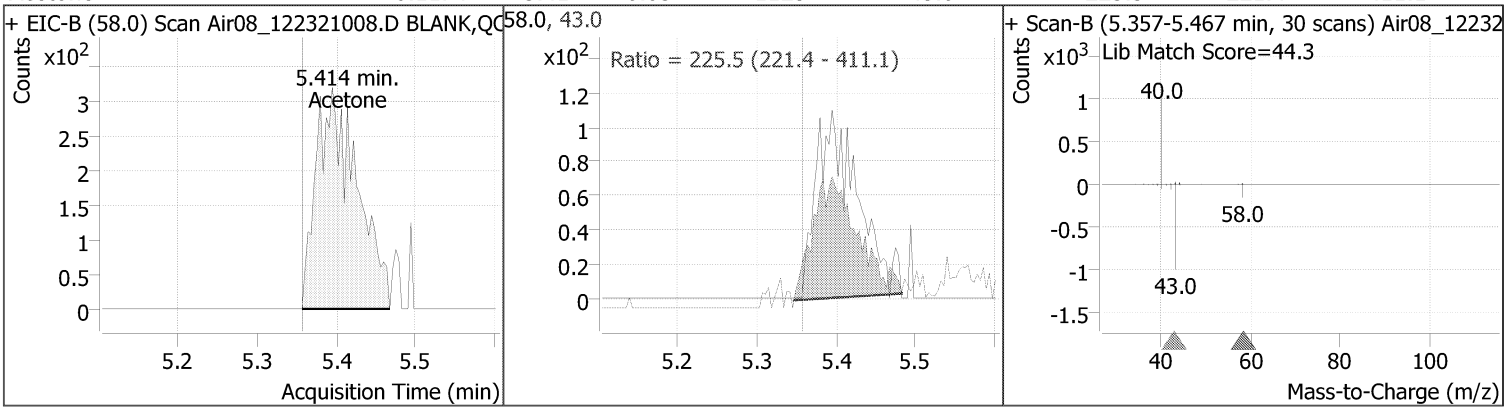



| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Acrolein | N.D. | 5.24 | 55.0 | 75.4 |

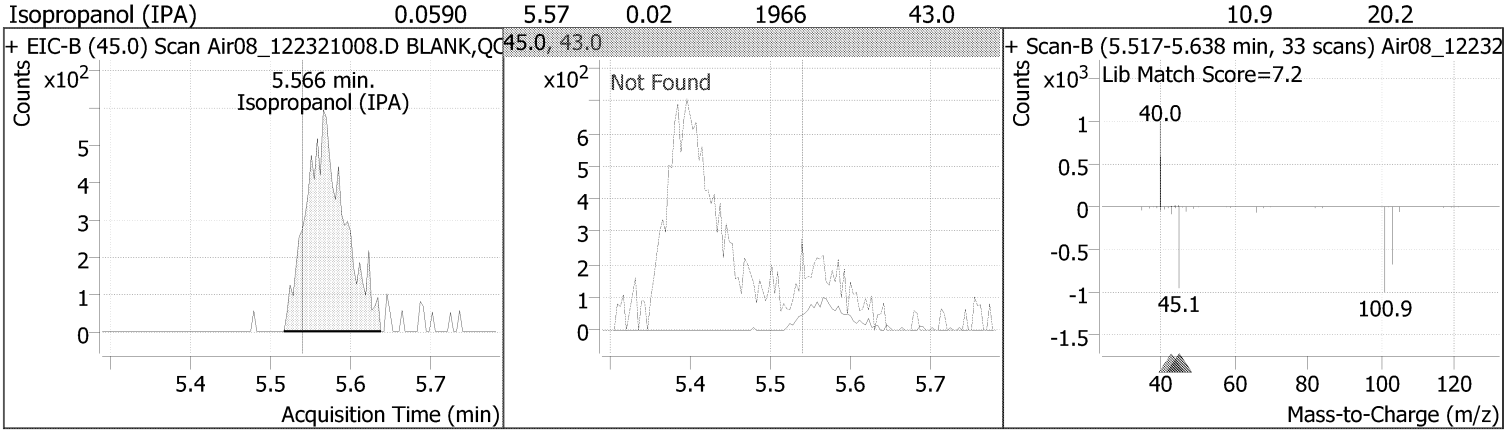


# Quantitation Results Report (Not Reviewed)

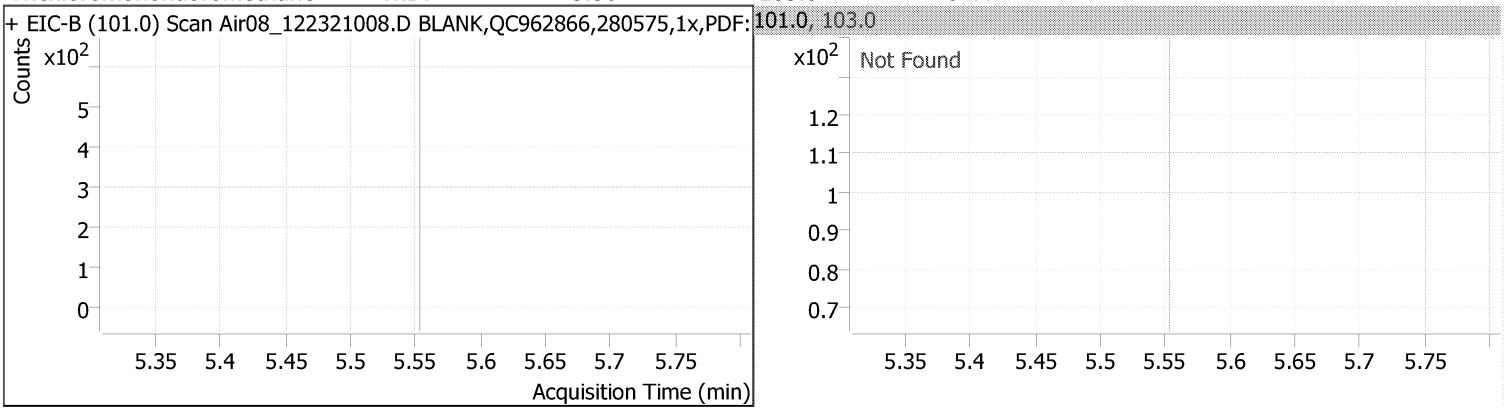
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.1174 | 5.41 | 0.05 | 1125 | 43.0 | 225.5 | 221.4 | 411.1 |



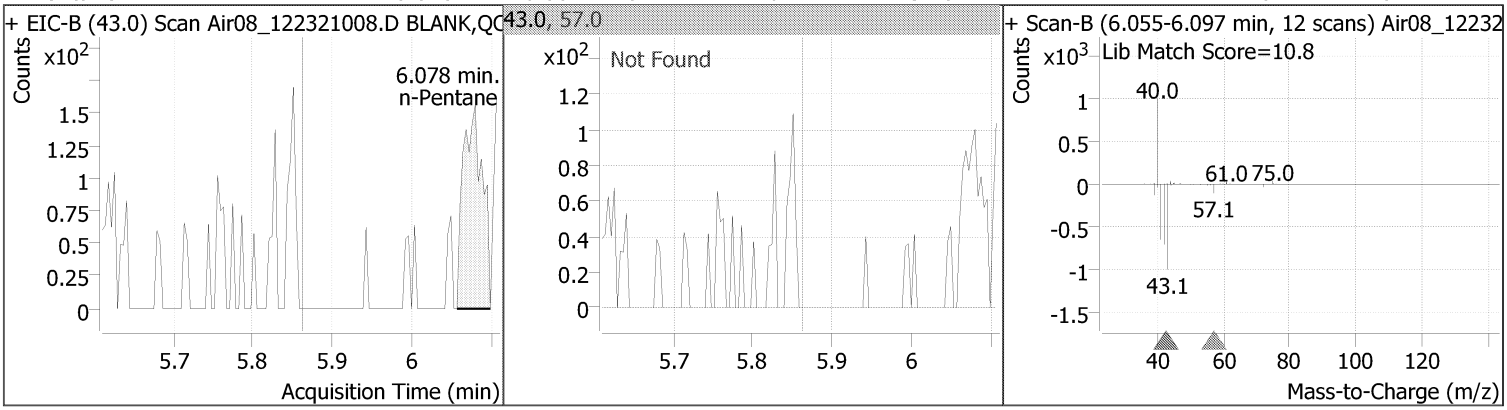

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.0590 | 5.57 | 0.02 | 1966 | 43.0 | | 10.9 | 20.2 |



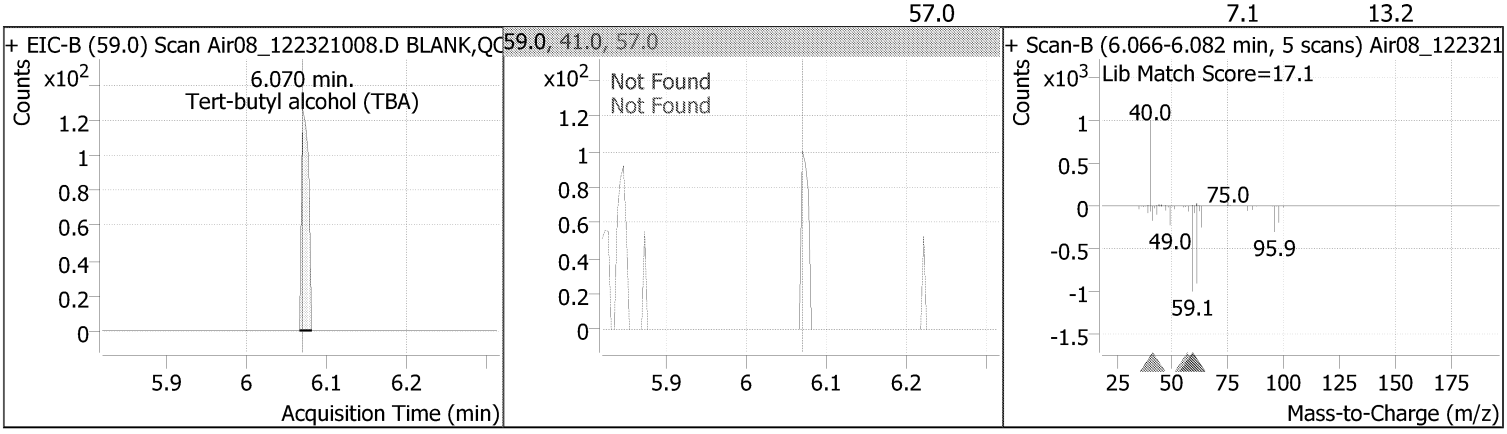

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Trichloromonofluoromethane | N.D. | 5.56 | 103.0 | 64.4 |



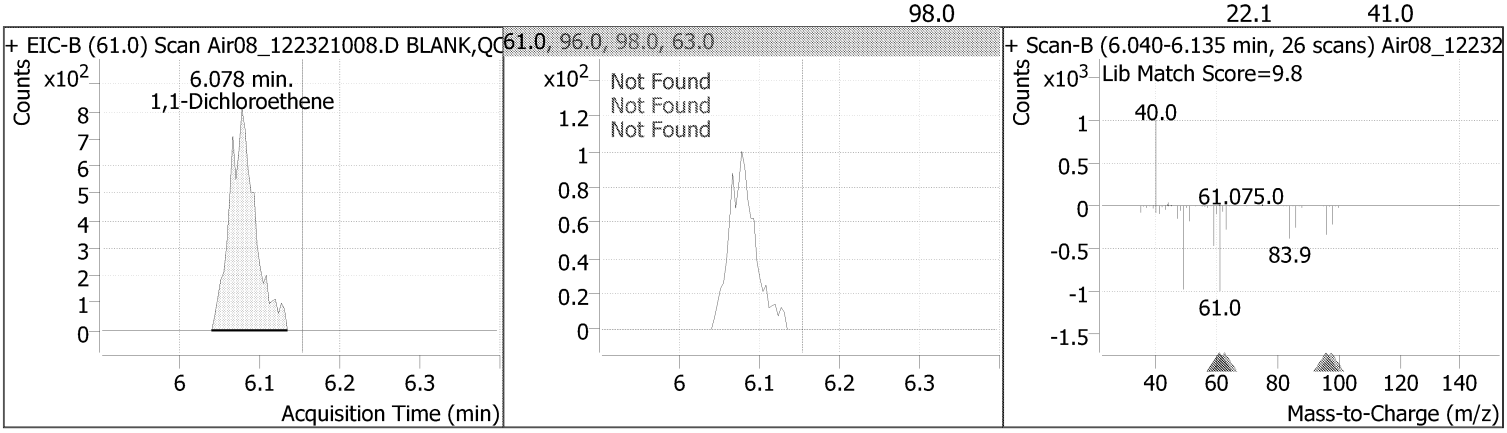

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.0102 | 6.08 | 0.21 | 262 | 57.0 | | 11.0 | 20.4 |



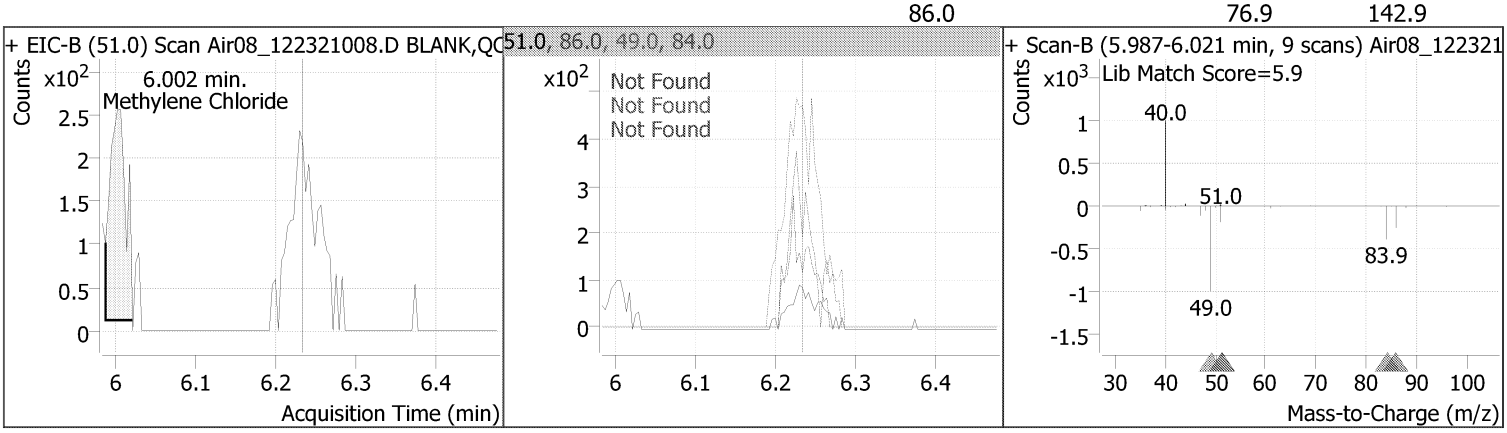
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.0028 | 6.07 | 0.00 | 78 | 41.0 | | 15.7 | 29.2 |
| | | | | | 57.0 | | 7.1 | 13.2 |



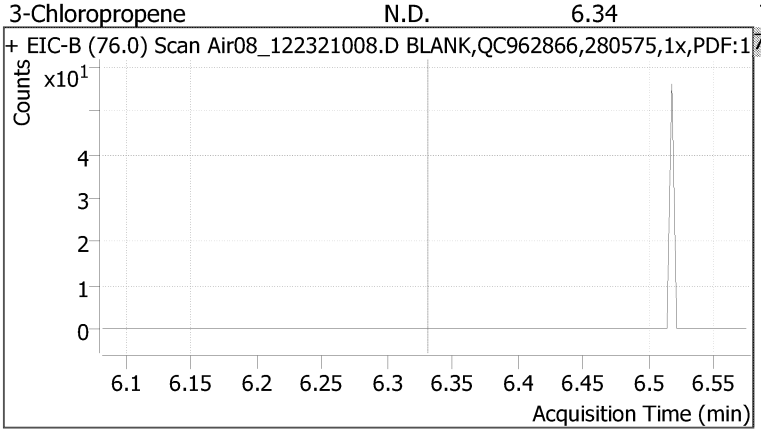

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0638 | 6.08 | -0.08 | 1804 | 96.0 | | 34.5 | 64.1 |
| | | | | | 63.0 | | 22.3 | 41.4 |
| | | | | | 98.0 | | 22.1 | 41.0 |

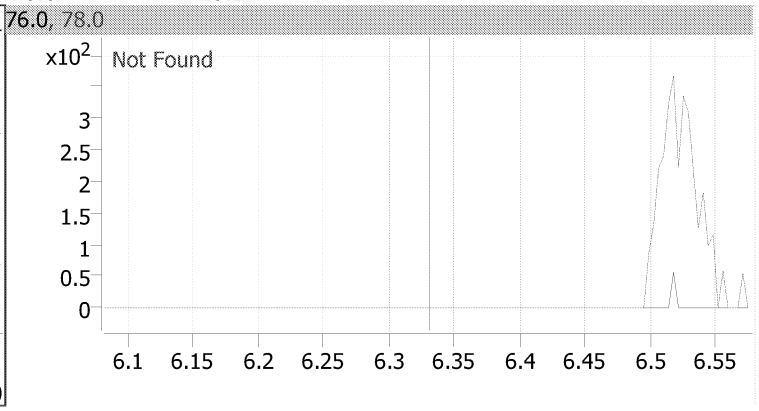



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.0380 | 6.00 | -0.24 | 327 | 49.0 | | 227.9 | 423.2 |
| | | | | | 84.0 | | 119.1 | 221.1 |
| | | | | | 86.0 | | 76.9 | 142.9 |

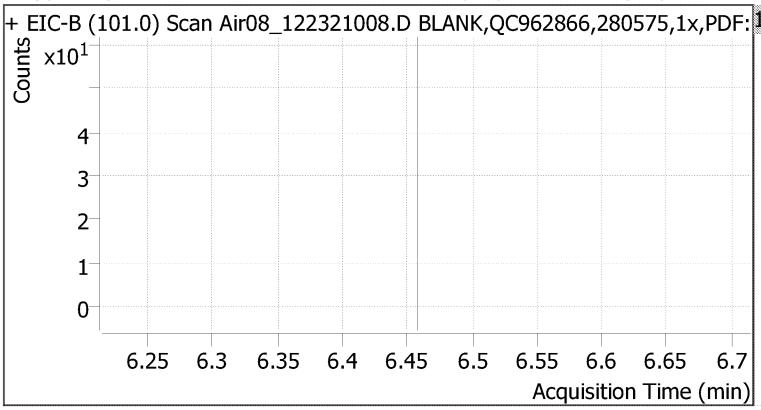


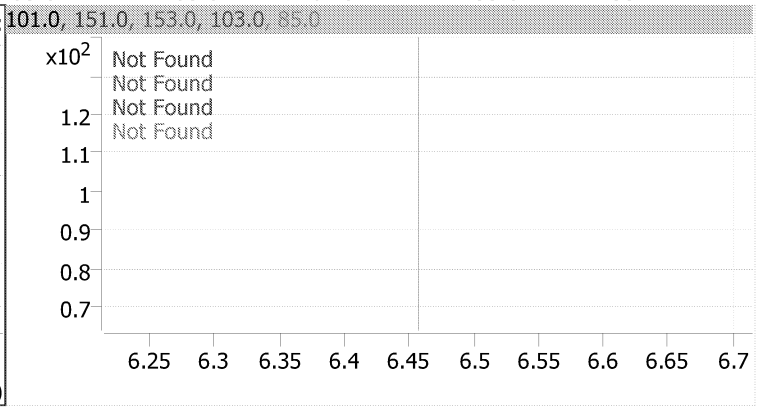
| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| 3-Chloropropene | N.D. | 6.34 | 78.0 | 28.1 |



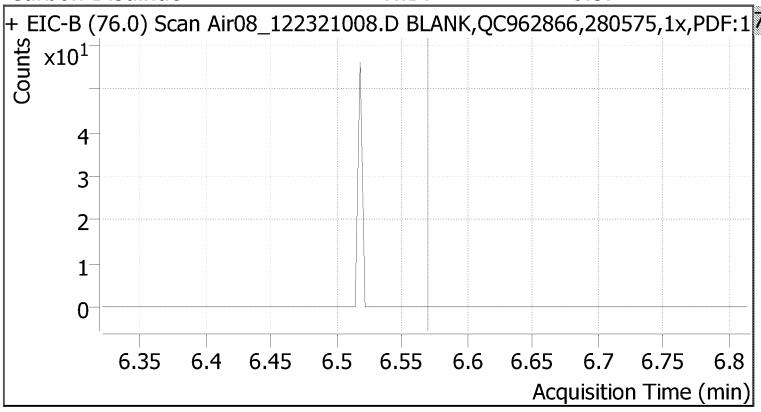



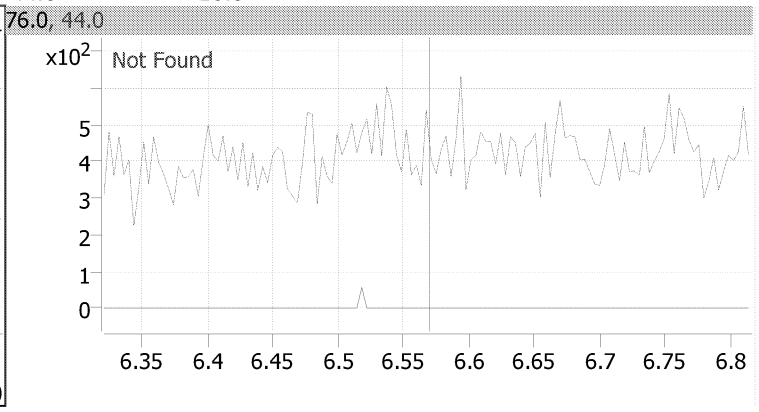

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | N.D. | 6.46 | 151.0 | 83.8 | 103.0 | 64.9 | 153.0 | 53.7 |



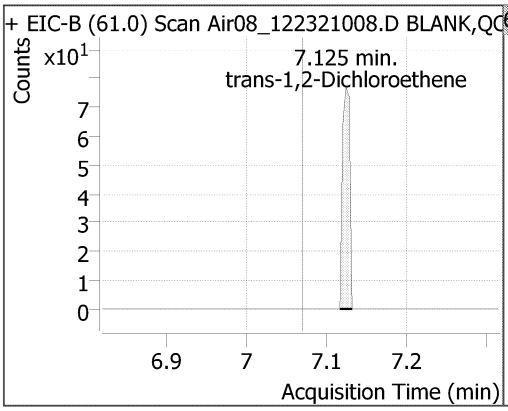



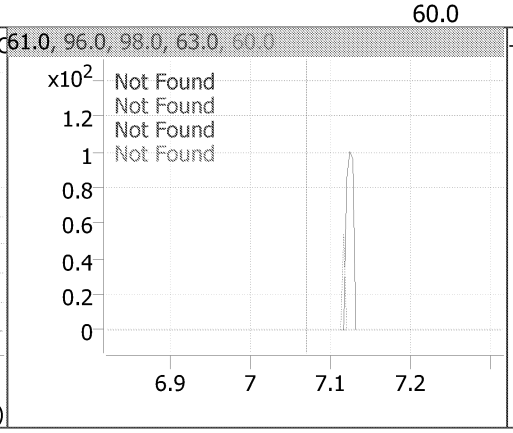

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Carbon Disulfide | N.D. | 6.57 | 44.0 | 16.8 |

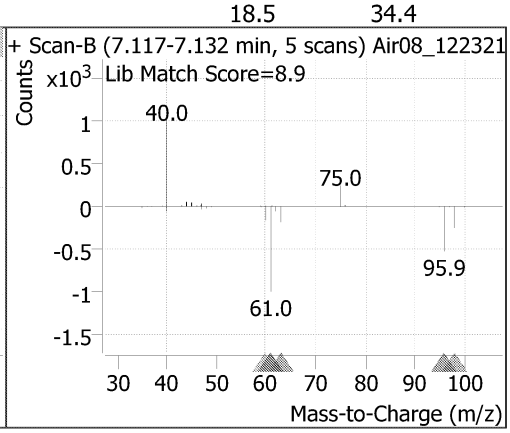


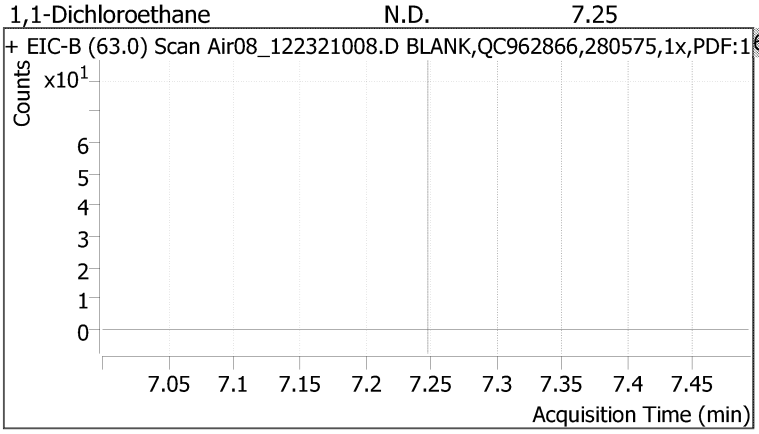
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.0021 | 7.12 | 0.05 | 49 | 96.0 | | 38.1 | 70.8 |
| | | | | | 98.0 | | 24.5 | 45.5 |
| | | | | | 63.0 | | 21.2 | 39.4 |
| | | | | | 60.0 | | 18.5 | 34.4 |

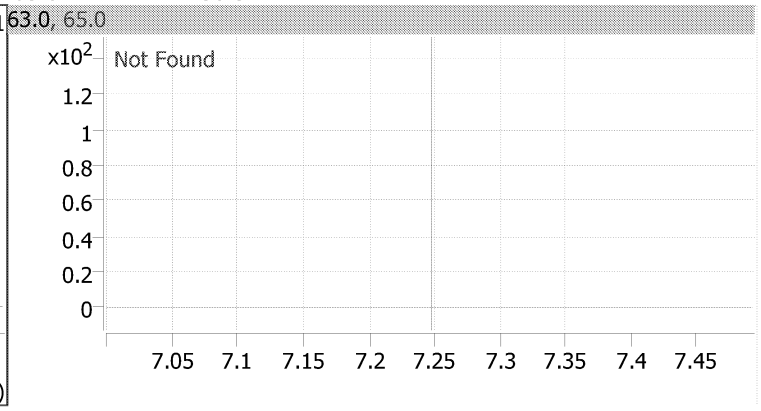


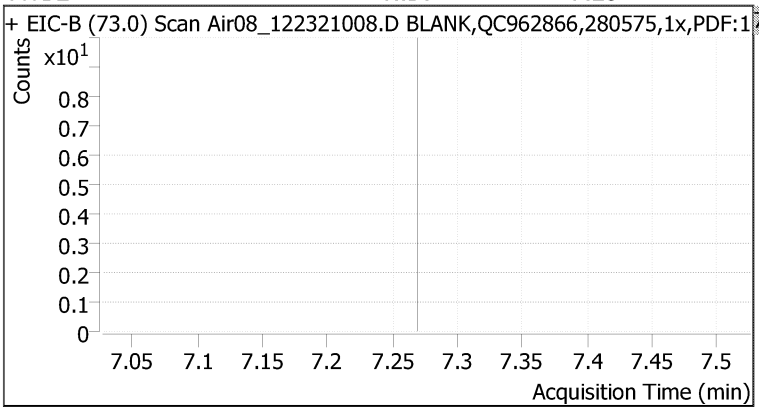



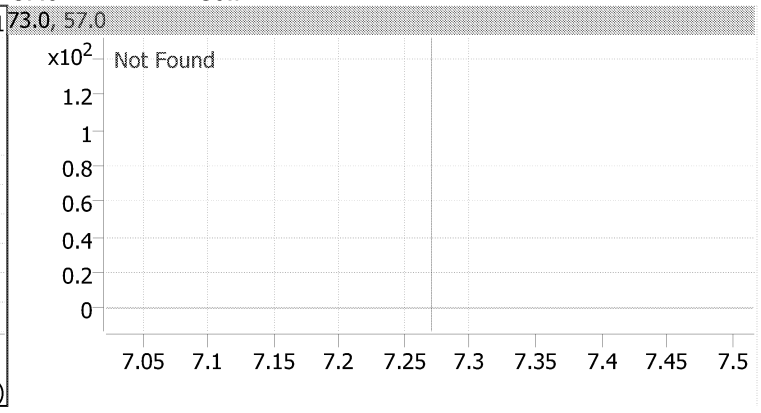

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| 1,1-Dichloroethane | N.D. | 7.25 | 65.0 | 30.3 |



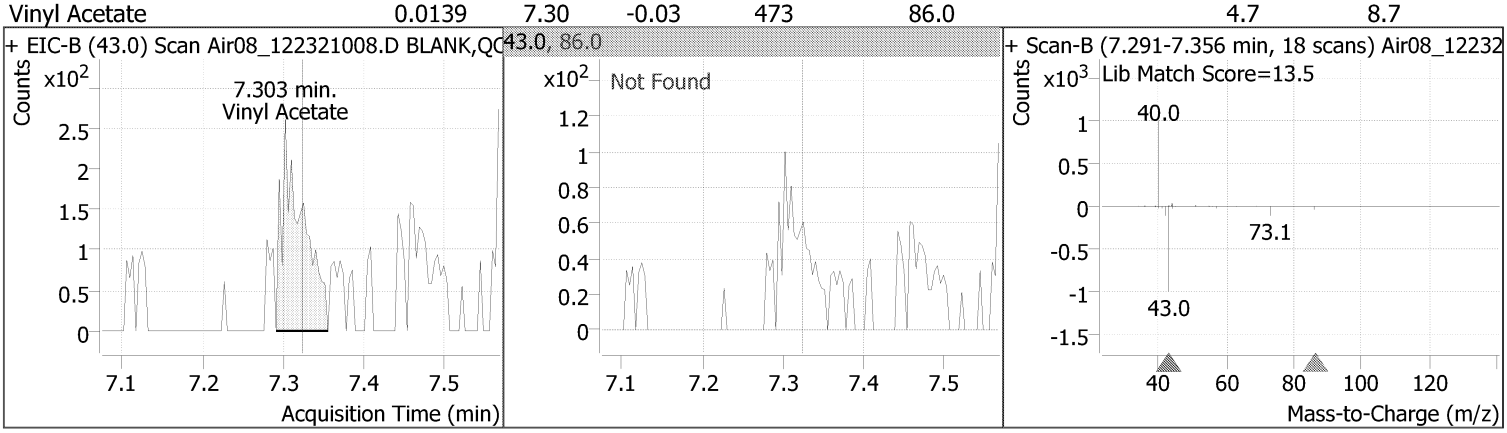




| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| MTBE | N.D. | 7.28 | 57.0 | 30.7 |

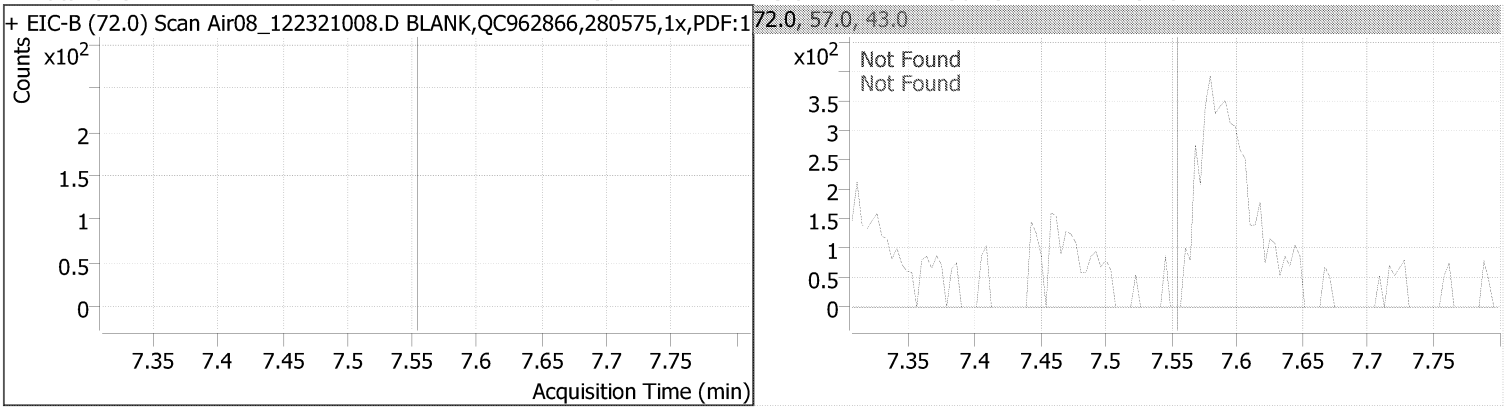


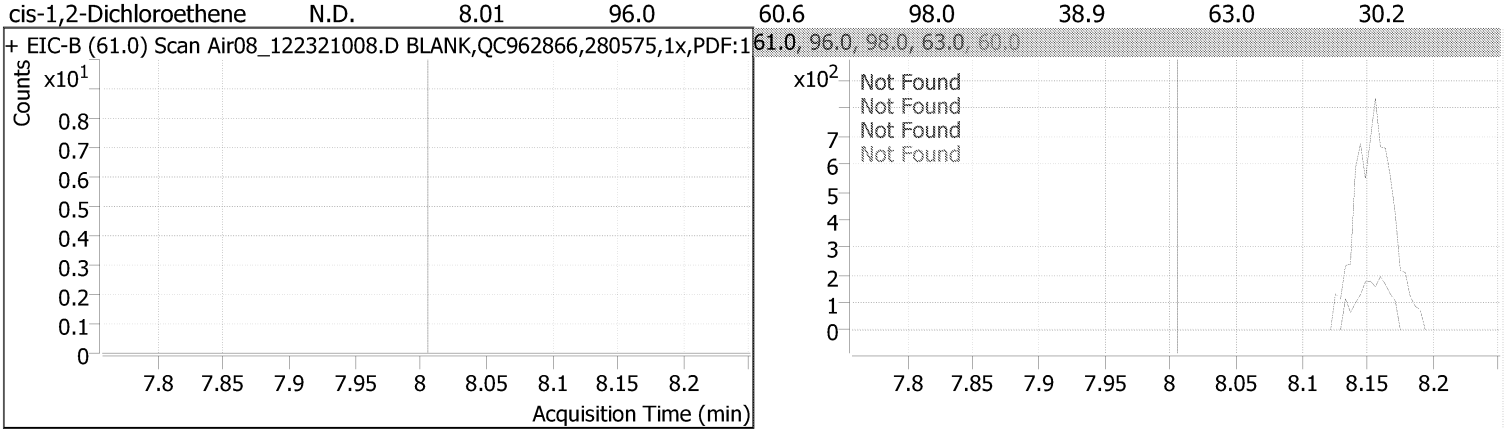
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.0139 | 7.30 | -0.03 | 473 | 86.0 | | 4.7 | 8.7 |



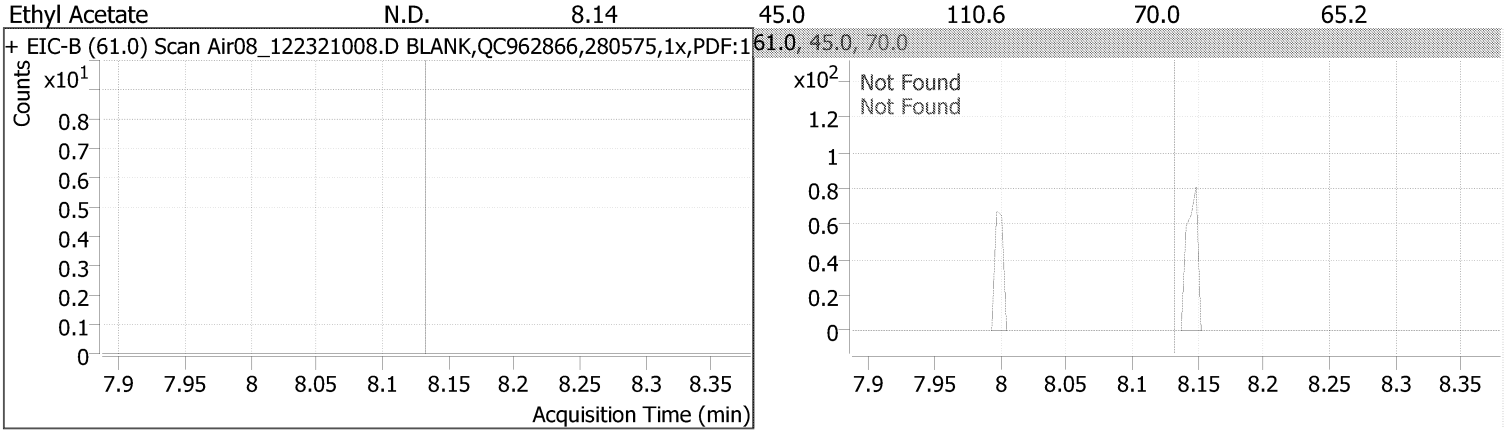

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| 2-Butanone | N.D. | 7.56 | 43.0 | 564.3 | 57.0 | 44.1 |



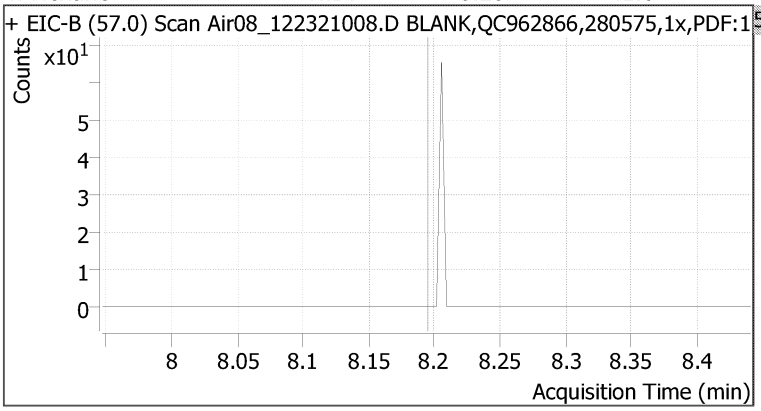

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | N.D. | 8.01 | 96.0 | 60.6 | 98.0 | 38.9 | 63.0 | 30.2 |

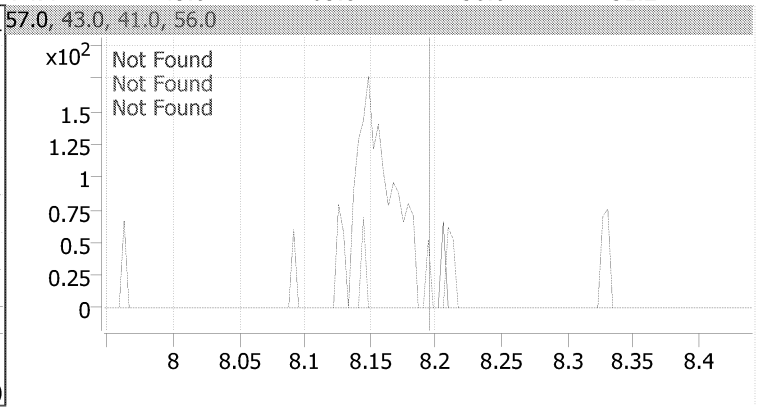



| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Ethyl Acetate | N.D. | 8.14 | 45.0 | 110.6 | 70.0 | 65.2 |

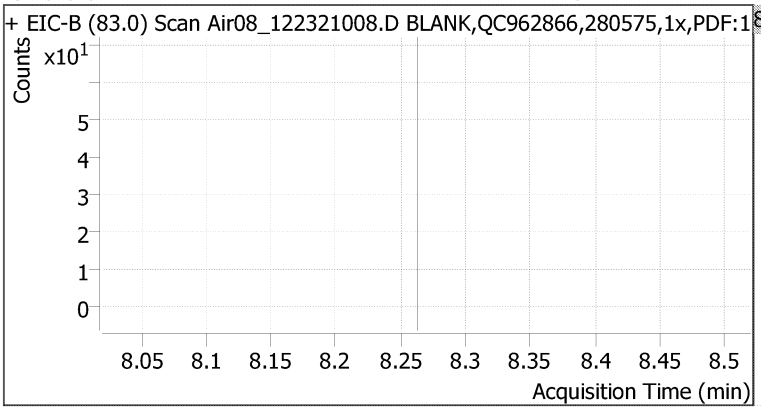


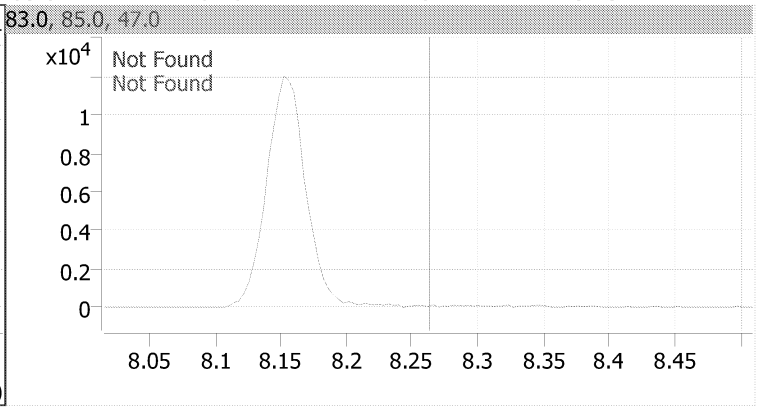
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | N.D. | 8.20 | 41.0 | 74.4 | 43.0 | 65.8 | 56.0 | 51.2 |



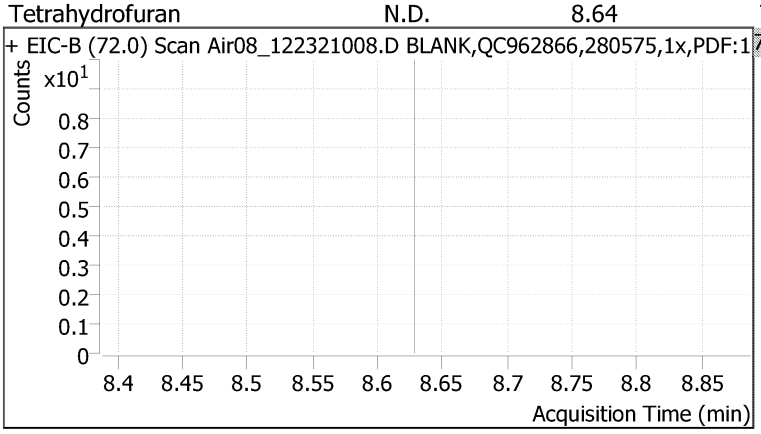



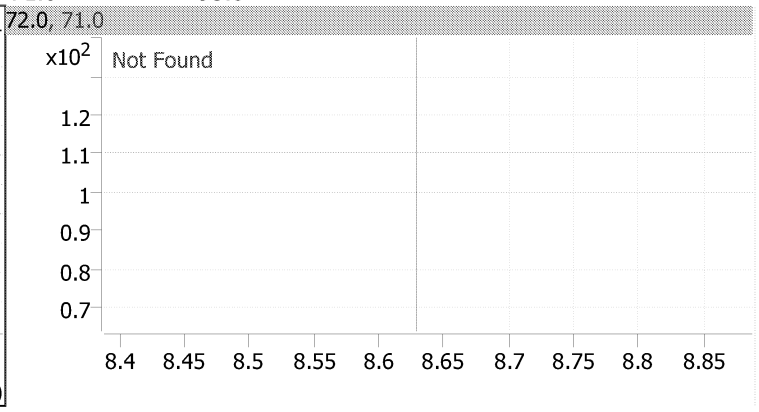

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Chloroform | N.D. | 8.27 | 85.0 | 64.8 | 47.0 | 32.5 |



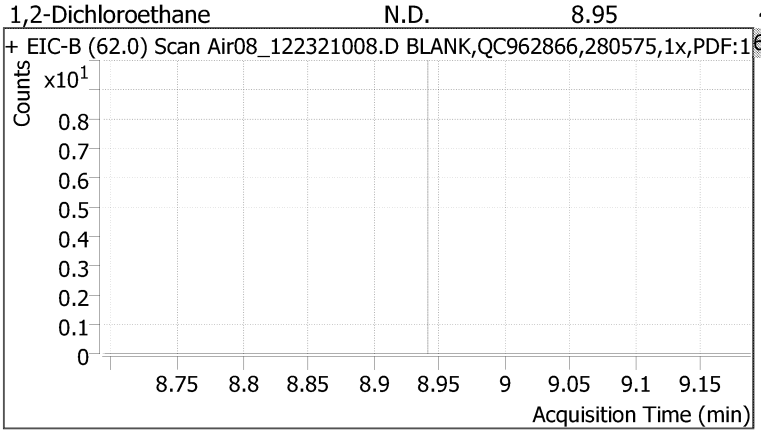



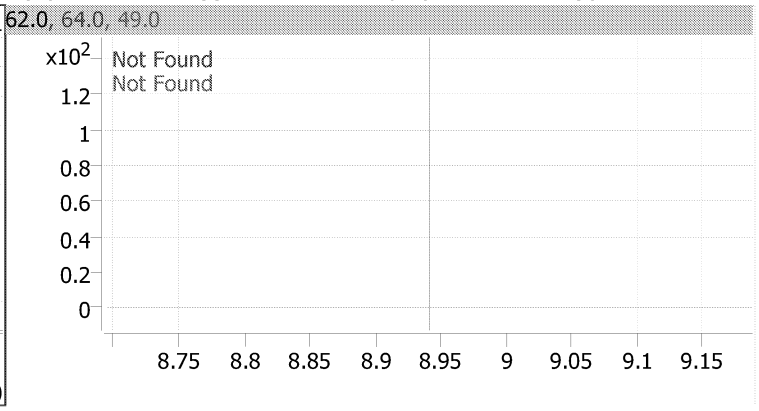

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Tetrahydrofuran | N.D. | 8.64 | 71.0 | 93.6 |



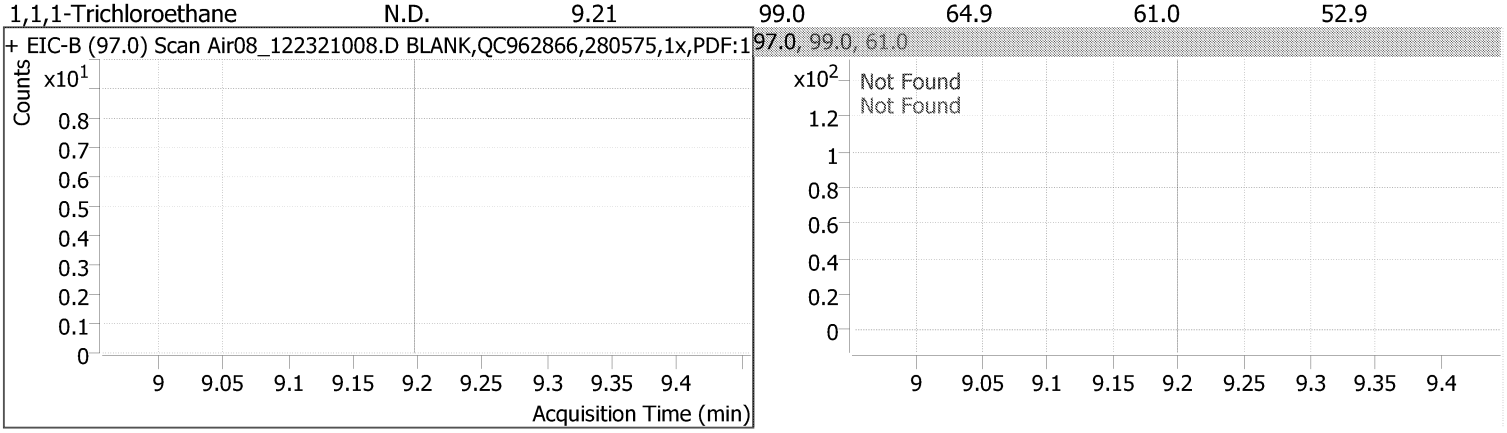




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | N.D. | 8.95 | 49.0 | 33.2 | 64.0 | 30.7 |

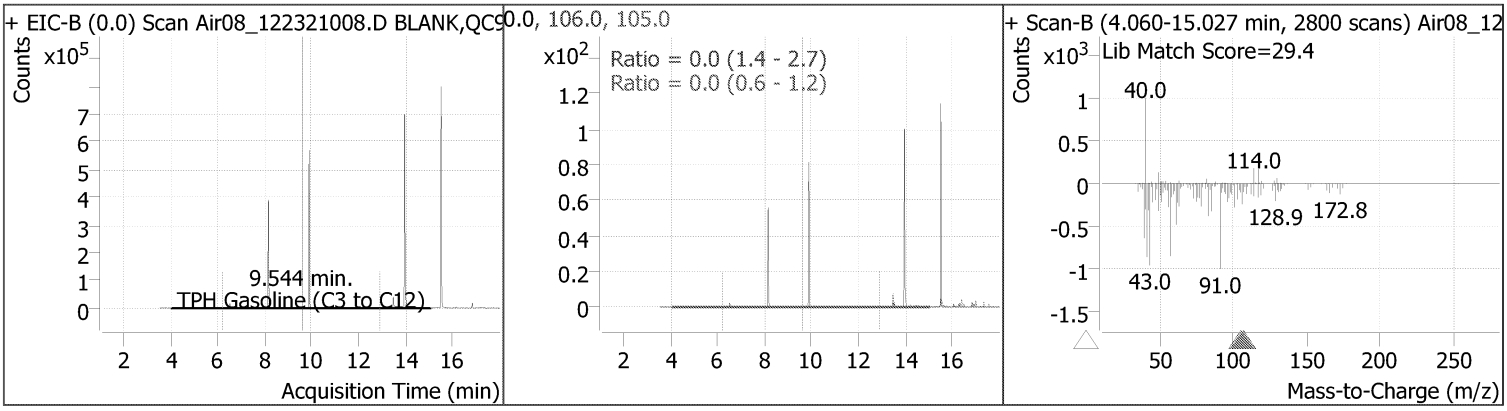


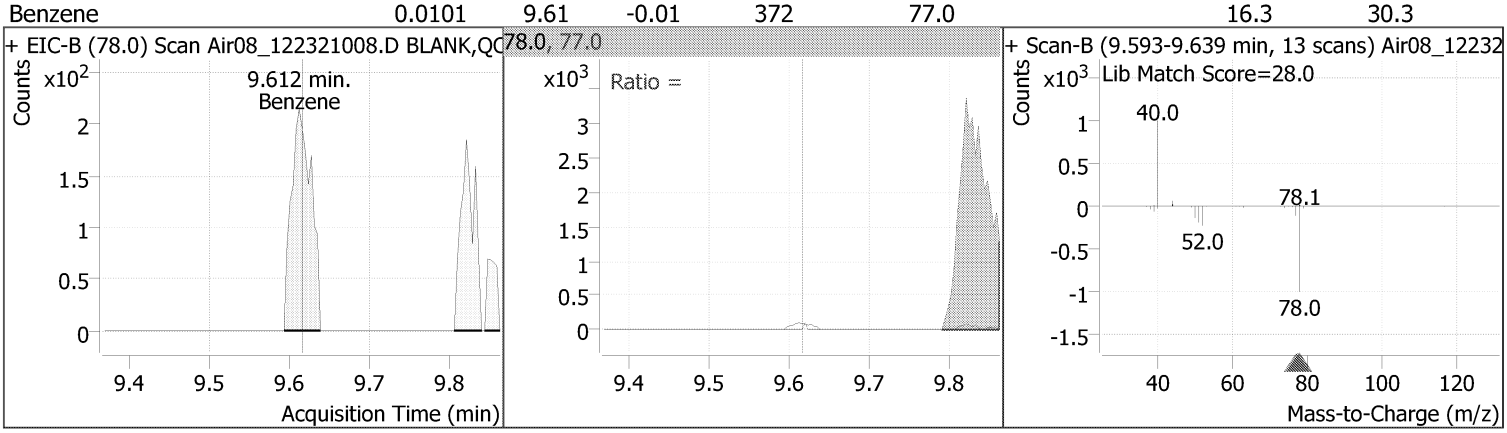
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | N.D. | 9.21 | 99.0 | 64.9 | 61.0 | 52.9 |



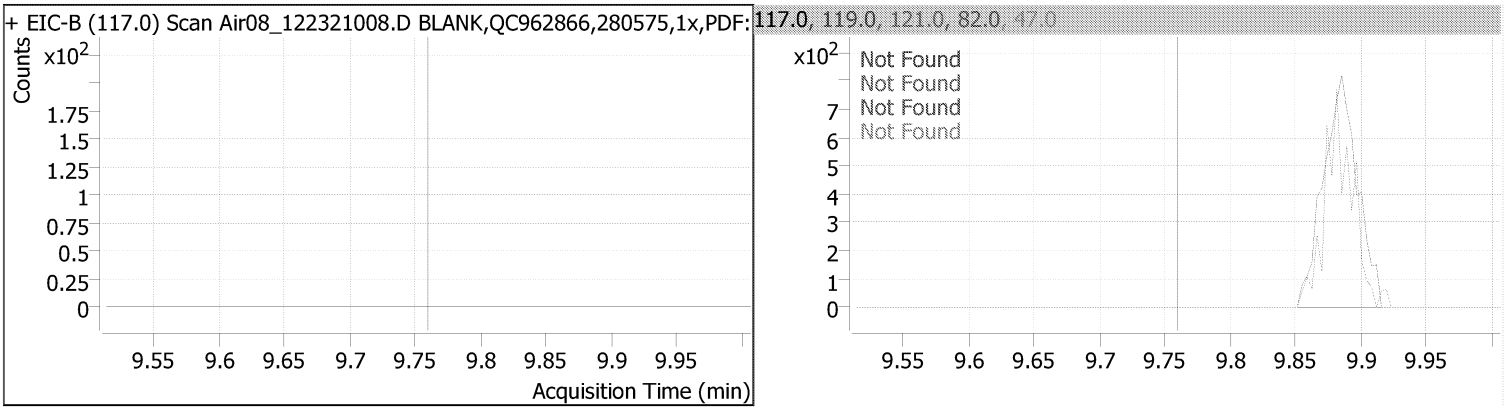

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 0.1816 | 9.54 | -0.01 | 388214 | 106.0 | 0.0 | 1.4 | 2.7 |
| | | | | | 105.0 | 0.0 | 0.6 | 1.2 |



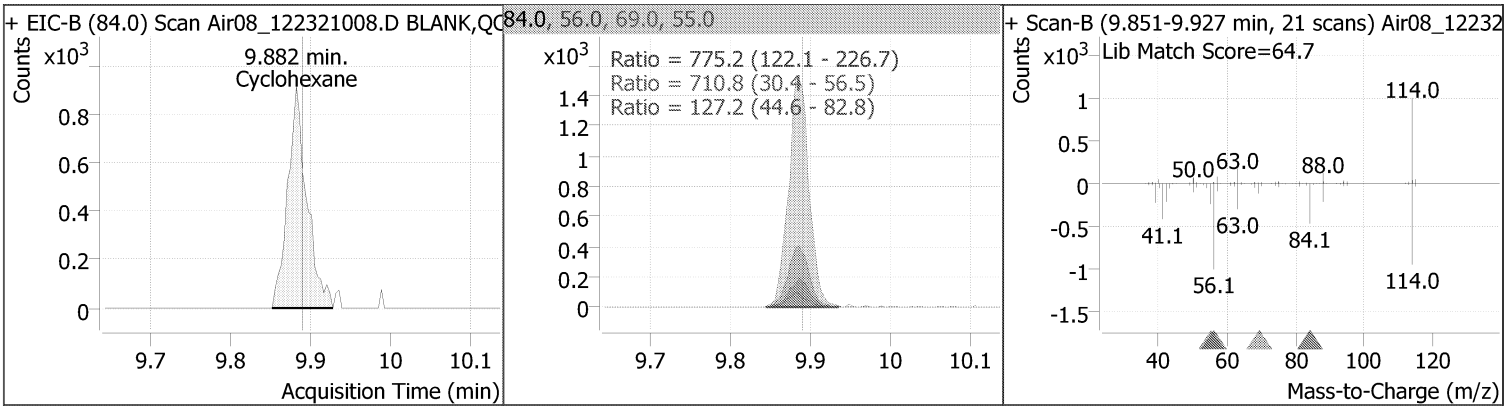

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0101 | 9.61 | -0.01 | 372 | 77.0 | | 16.3 | 30.3 |



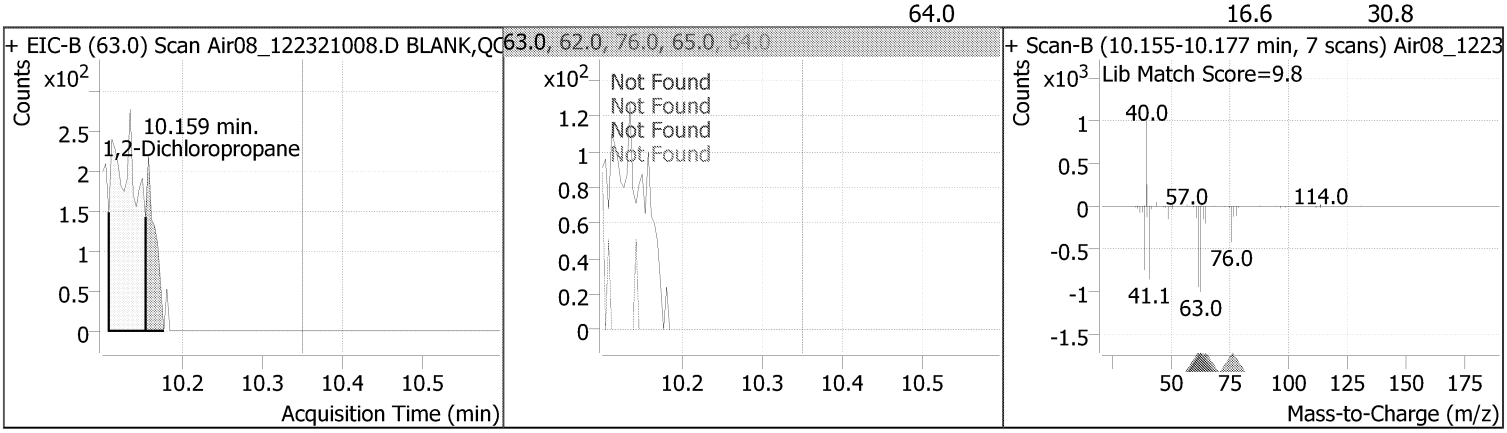

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | N.D. | 9.77 | 119.0 | 96.4 | 121.0 | 31.3 | 47.0 | 26.3 |



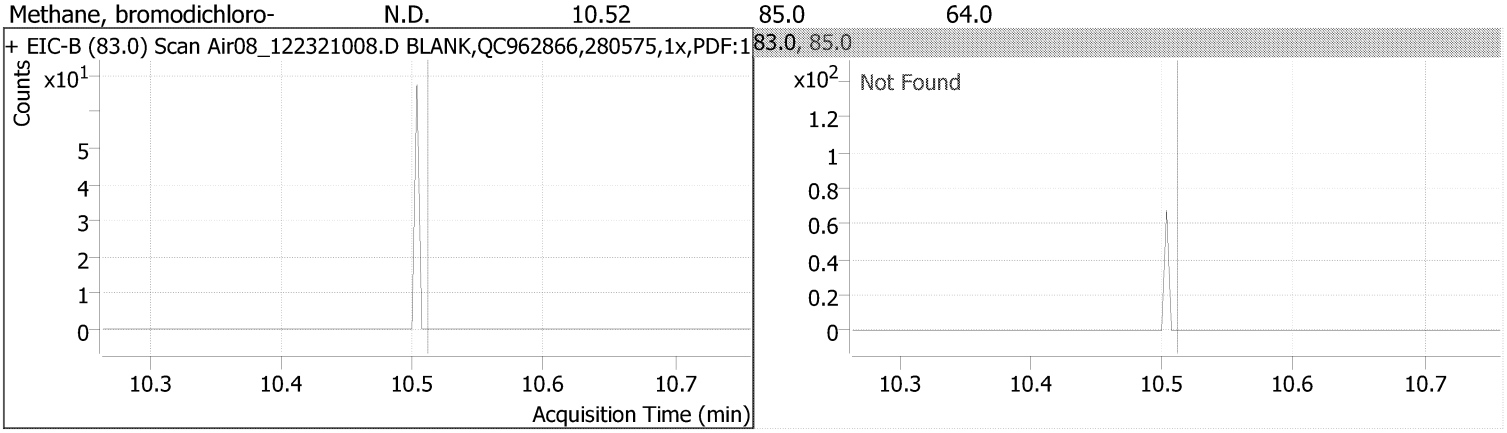
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0883 | 9.88 | -0.02 | 1521 | 56.0 | 775.2 | 122.1 | 226.7 |
| | | | | | 55.0 | 127.2 | 44.6 | 82.8 |
| | | | | | 69.0 | 710.8 | 30.4 | 56.5 |



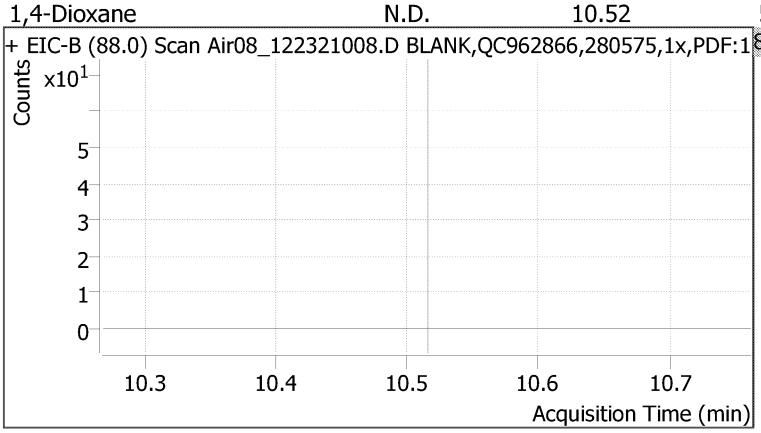

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0102 | 10.16 | -0.19 | 165 | 62.0 | | 49.9 | 92.7 |
| | | | | | 76.0 | | 24.1 | 44.8 |
| | | | | | 65.0 | | 20.4 | 37.9 |
| | | | | | 64.0 | | 16.6 | 30.8 |

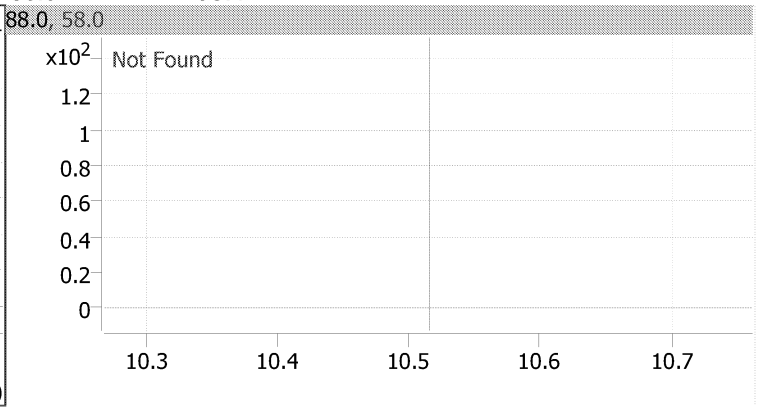



| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Methane, bromodichloro- | N.D. | 10.52 | 85.0 | 64.0 |

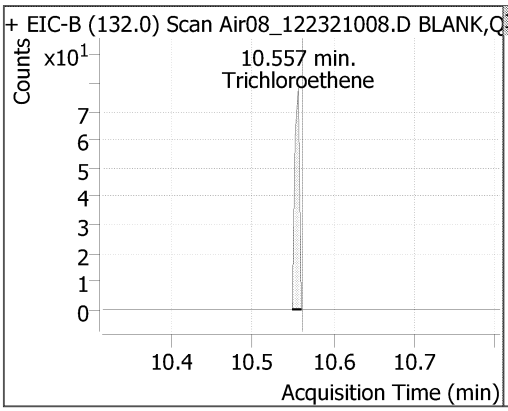


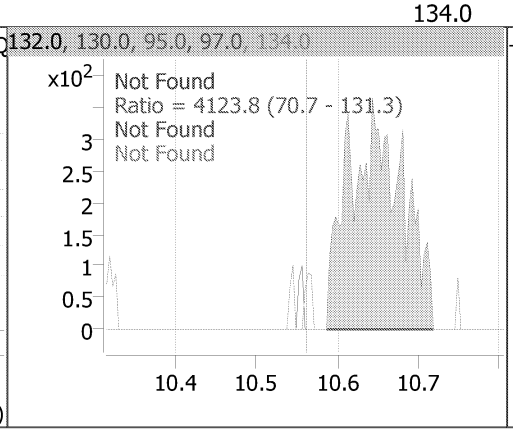
| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| 1,4-Dioxane | N.D. | 10.52 | 58.0 | 93.4 |

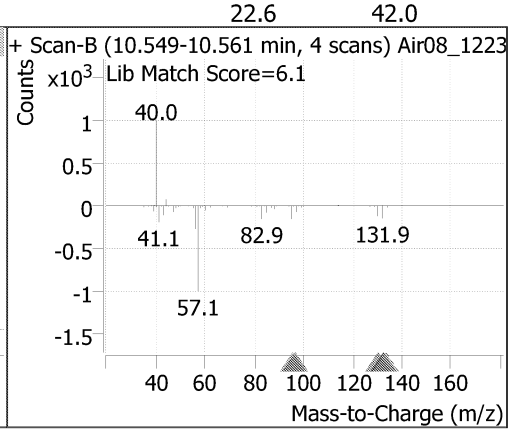


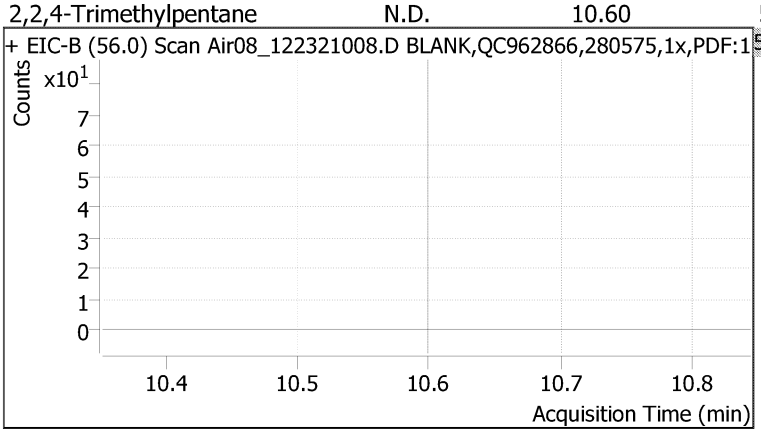

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0020 | 10.56 | -0.01 | 32 | 130.0 | | 72.7 | 135.0 |
| | | | | | 95.0 | 4123.8 | 70.7 | 131.3 |
| | | | | | 97.0 | | 46.1 | 85.7 |
| | | | | | 134.0 | | 22.6 | 42.0 |

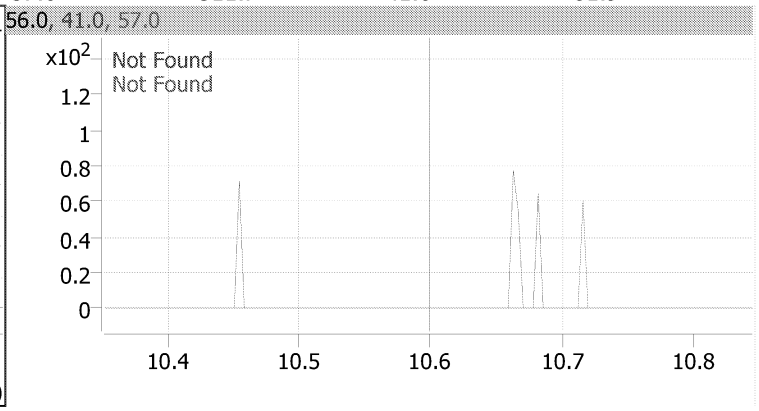


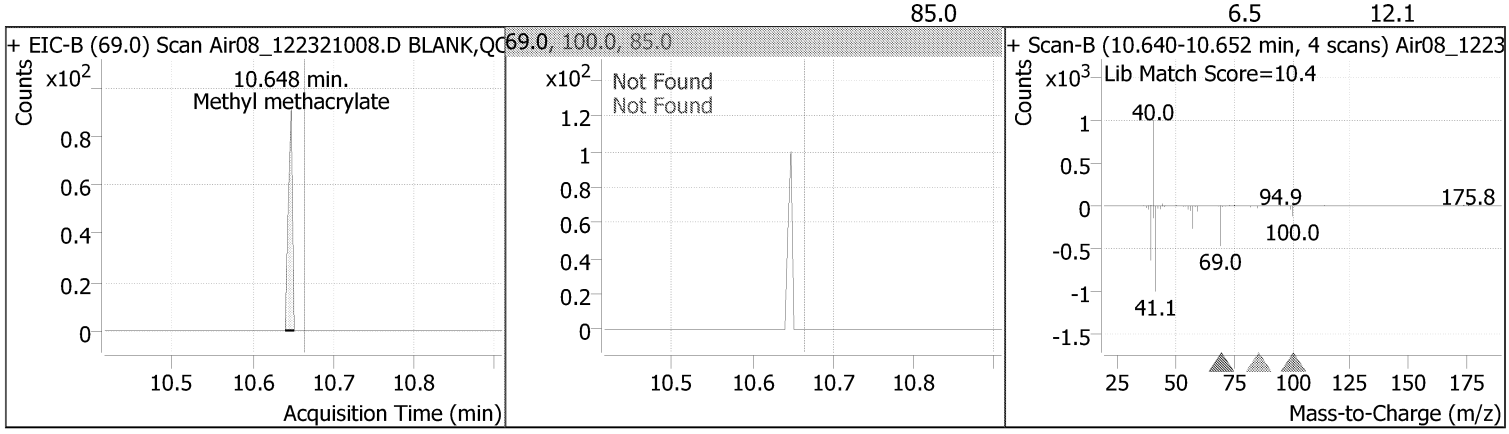




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | N.D. | 10.60 | 57.0 | 311.7 | 41.0 | 81.9 |

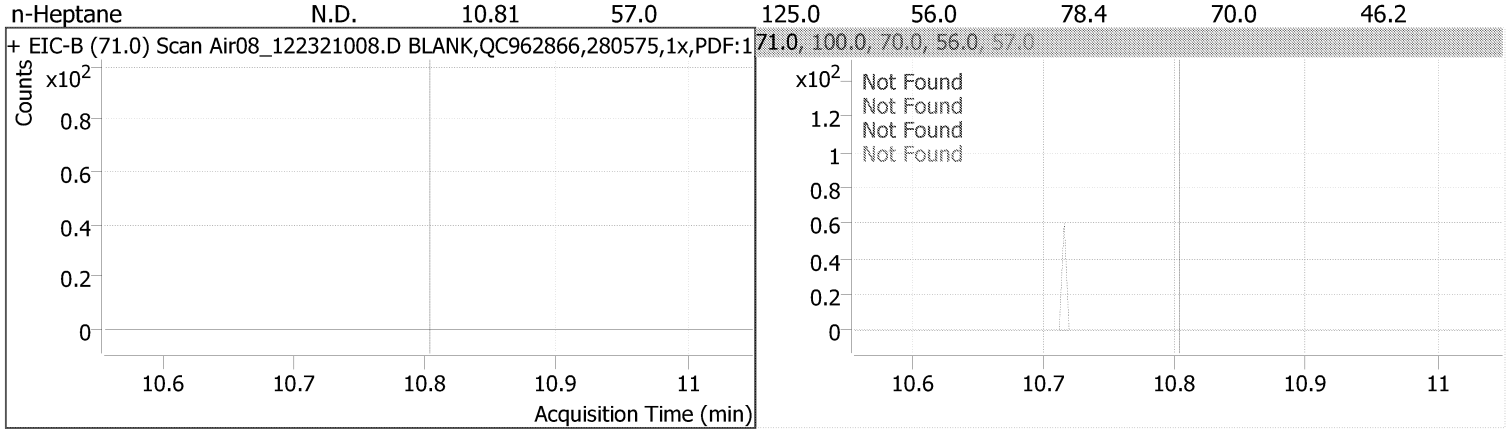


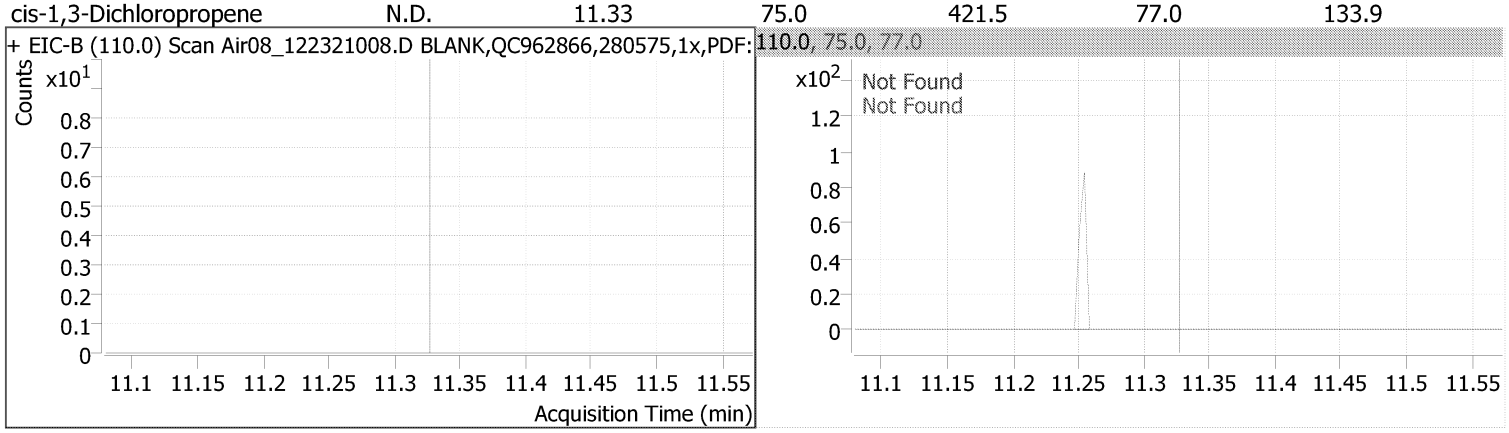
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0030 | 10.65 | -0.02 | 32 | 100.0 | | 27.1 | 50.4 |
| | | | | | 85.0 | | 6.5 | 12.1 |



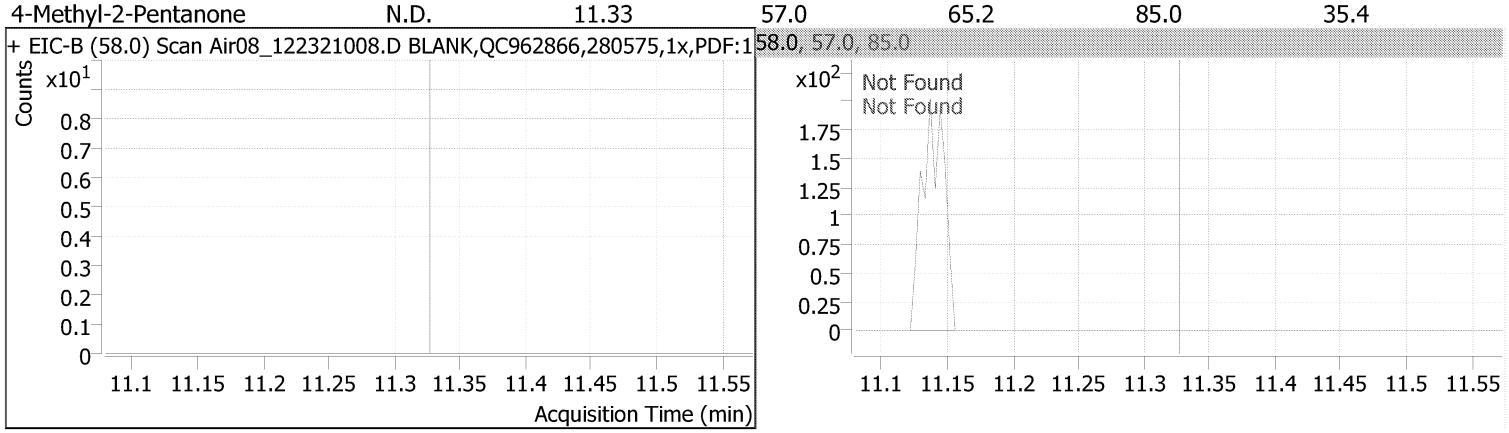

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | N.D. | 10.81 | 57.0 | 125.0 | 56.0 | 78.4 | 70.0 | 46.2 |



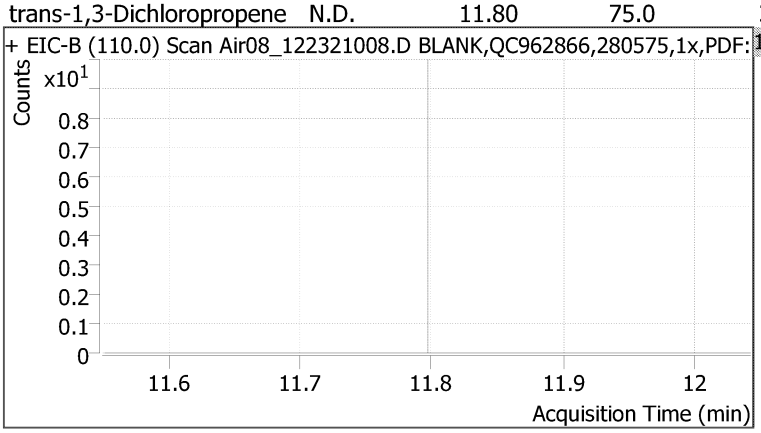

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | N.D. | 11.33 | 75.0 | 421.5 | 77.0 | 133.9 |

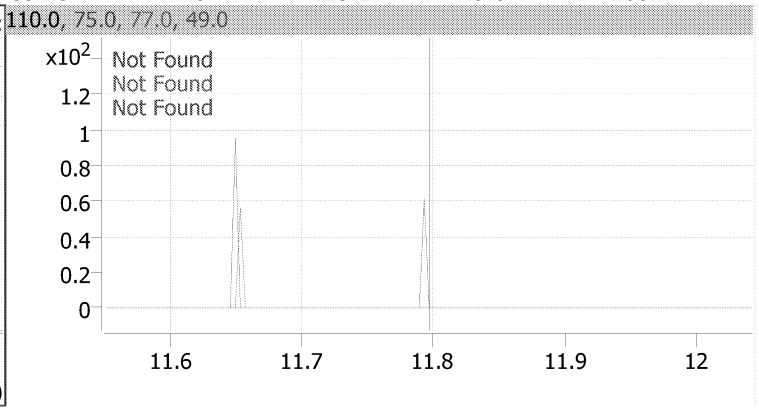



| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | N.D. | 11.33 | 57.0 | 65.2 | 85.0 | 35.4 |

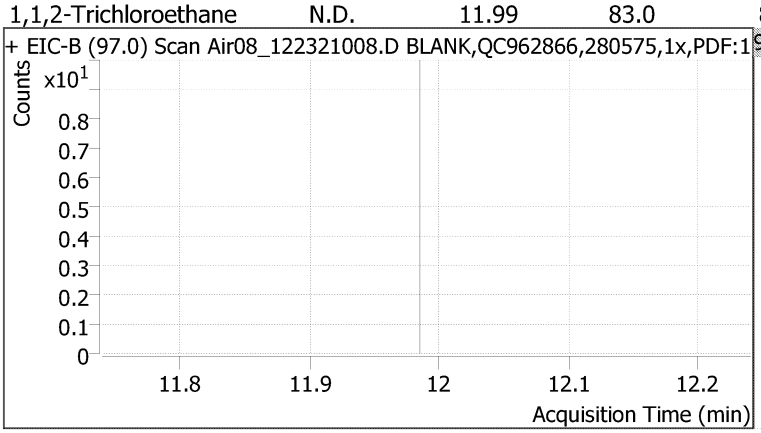


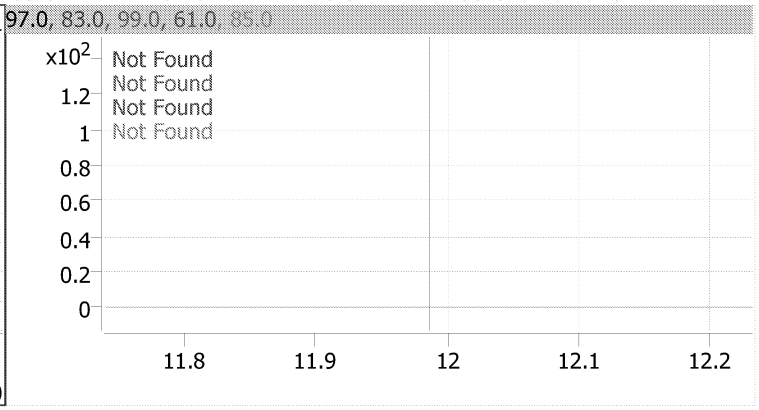
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | N.D. | 11.80 | 75.0 | 394.5 | 77.0 | 123.1 | 49.0 | 108.2 |



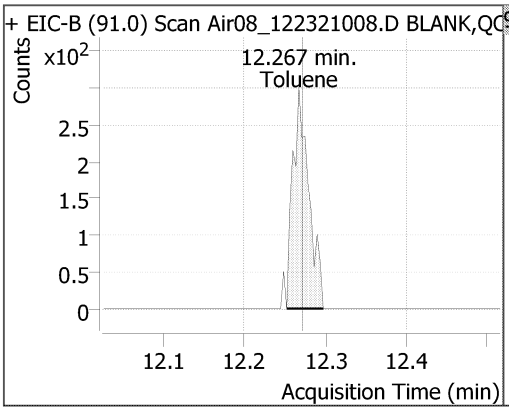



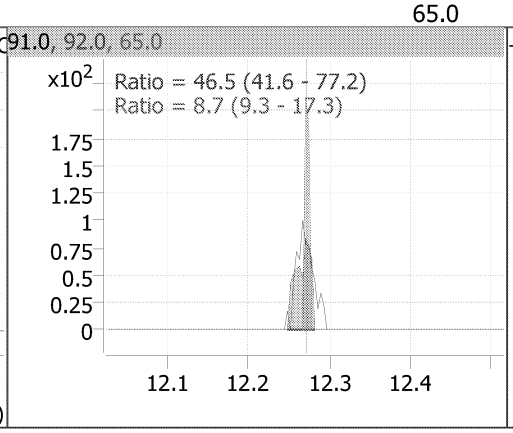

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | N.D. | 11.99 | 83.0 | 85.8 | 61.0 | 76.5 | 99.0 | 62.7 |

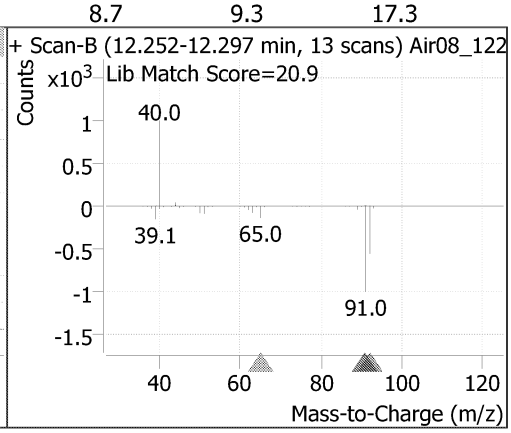


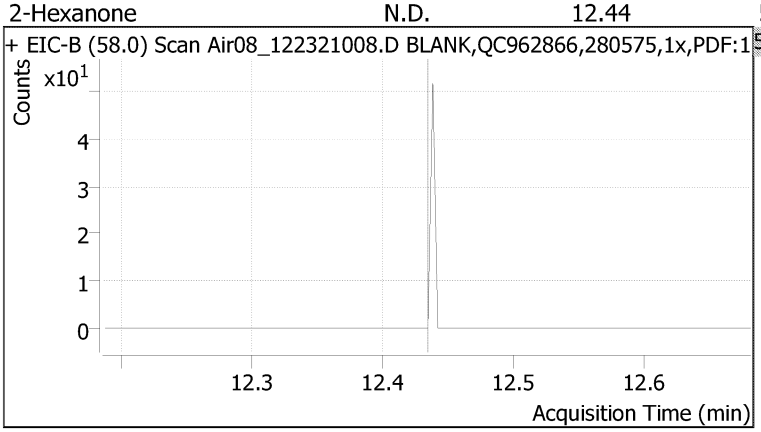

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0101 | 12.27 | -0.01 | 418 | 92.0 | 46.5 | 41.6 | 77.2 |
| | | | | | 65.0 | 8.7 | 9.3 | 17.3 |

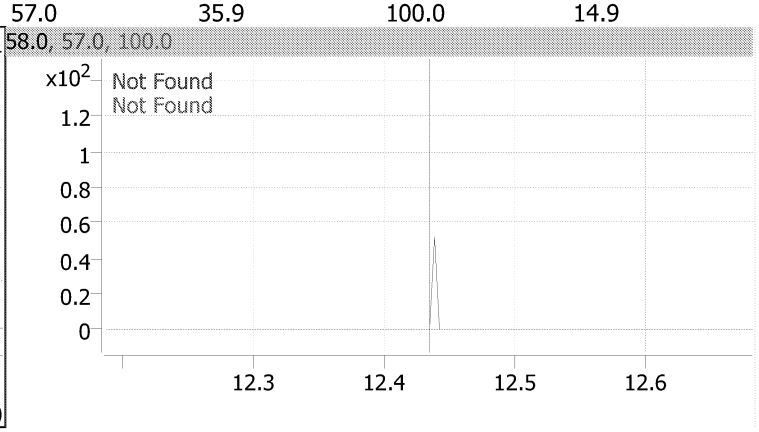


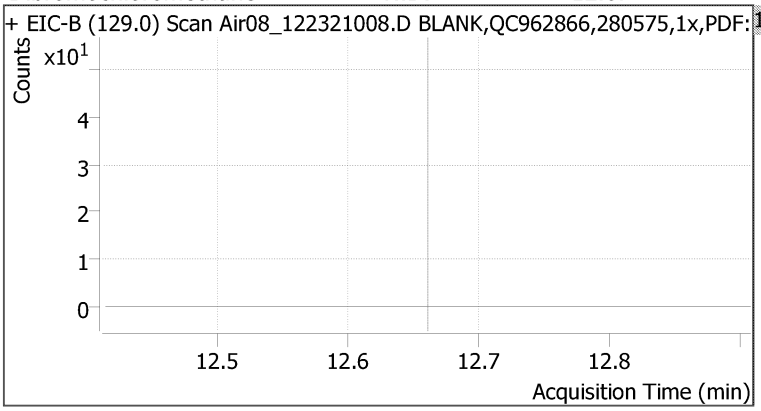



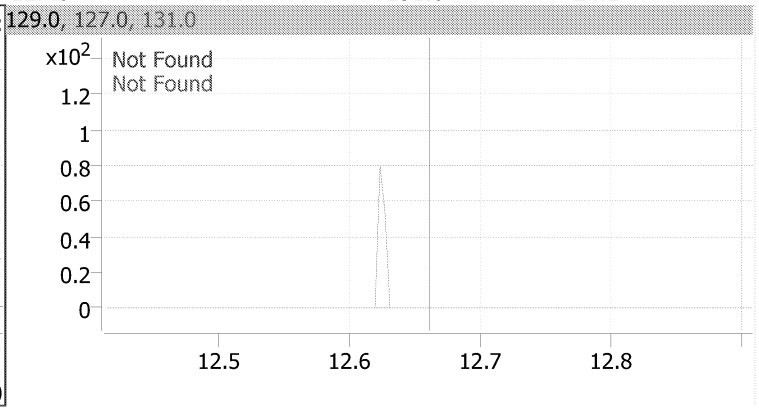

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| 2-Hexanone | N.D. | 12.44 | 57.0 | 35.9 | 100.0 | 14.9 |



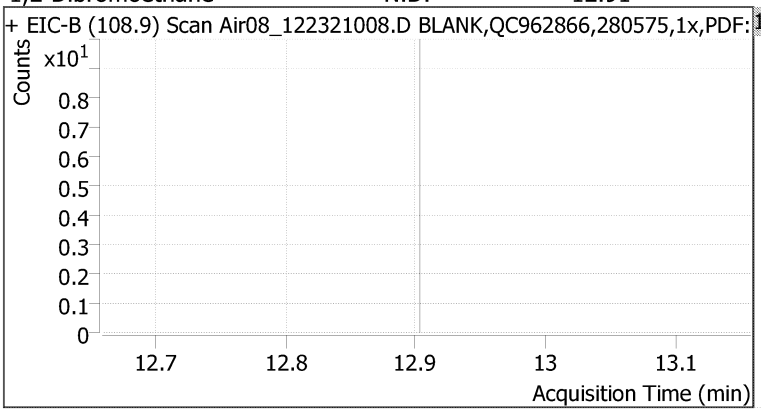



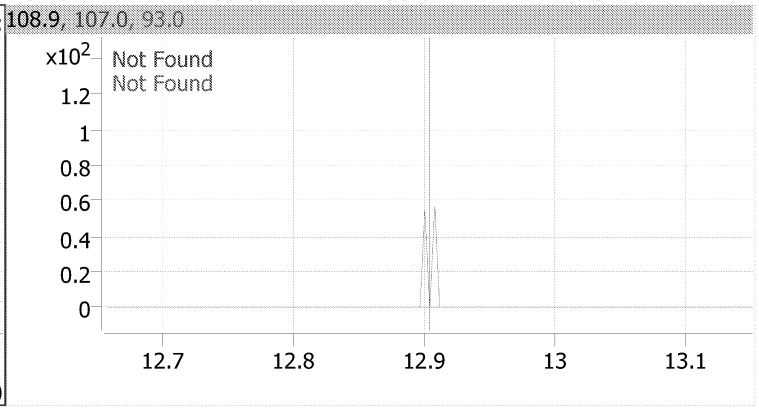
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Dibromochloromethane | N.D. | 12.67 | 127.0 | 77.4 | 131.0 | 24.1 |



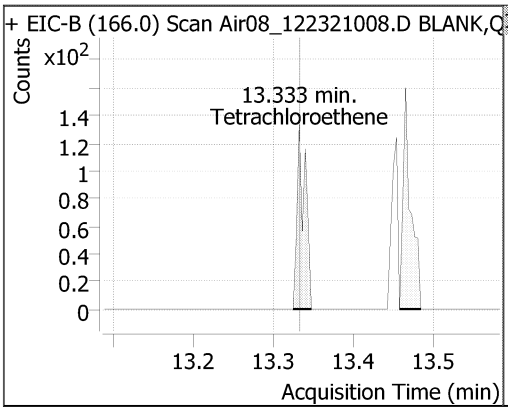



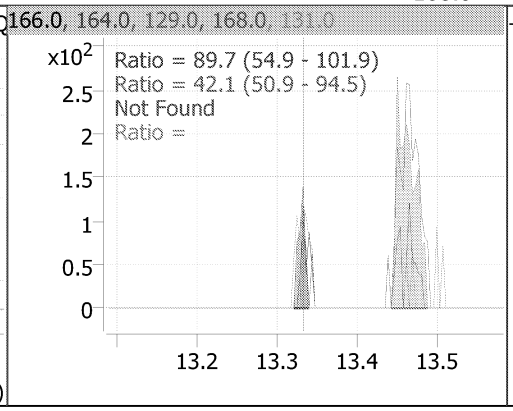

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | N.D. | 12.91 | 107.0 | 106.6 | 93.0 | 6.5 |

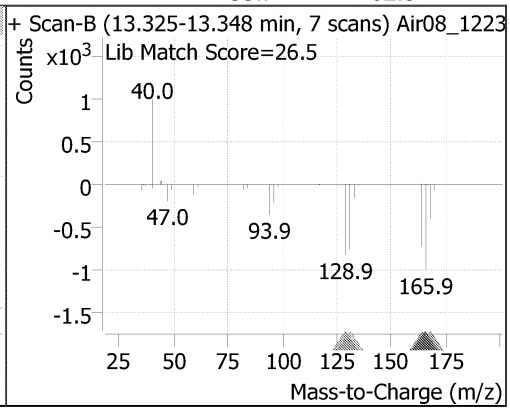


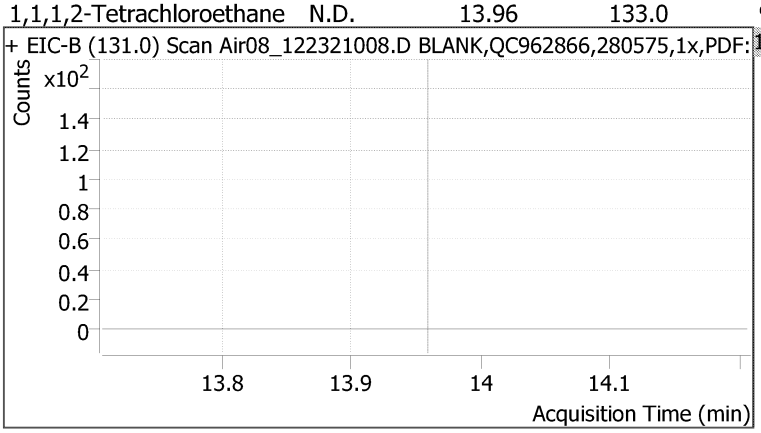

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0041 | 13.33 | -0.01 | 95 | 164.0 | 89.7 | 54.9 | 101.9 |
| | | | | | 129.0 | 42.1 | 50.9 | 94.5 |
| | | | | | 131.0 | | 48.6 | 90.3 |
| | | | | | 168.0 | | 33.7 | 62.5 |

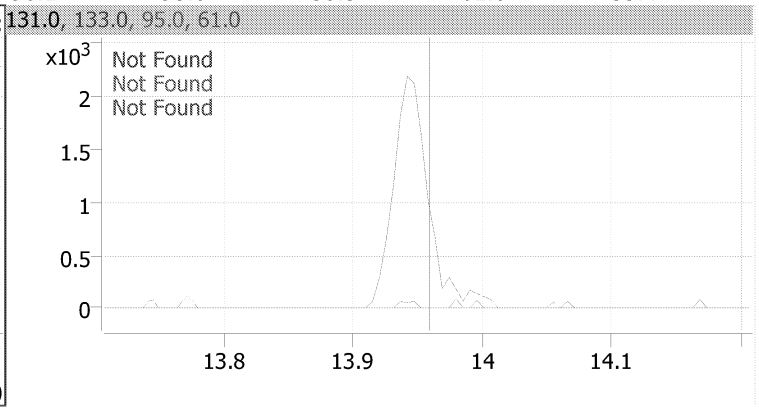


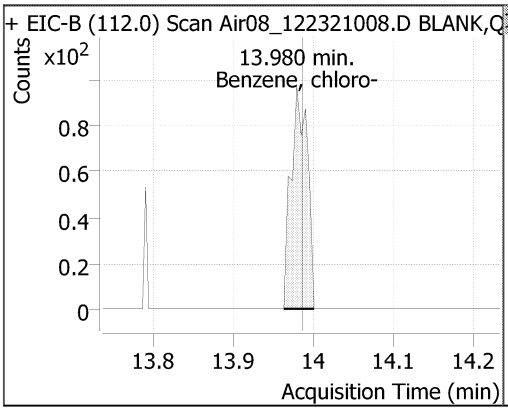



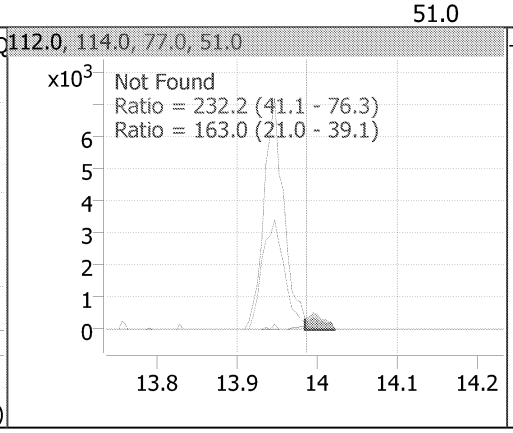
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | N.D. | 13.96 | 133.0 | 96.1 | 95.0 | 38.5 | 61.0 | 35.4 |

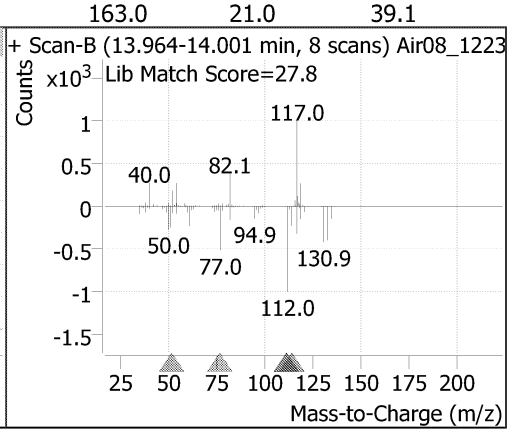


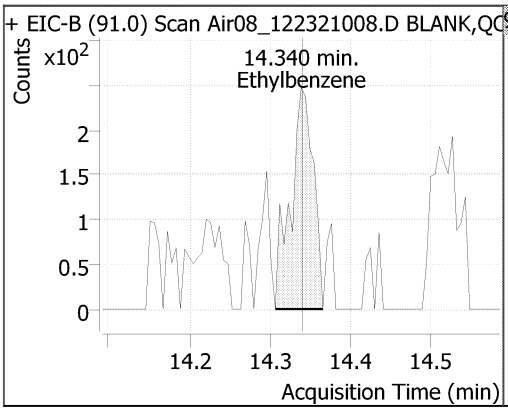

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0039 | 13.98 | -0.01 | 138 | 77.0 | 232.2 | 41.1 | 76.3 |
| | | | | | 114.0 | | 22.4 | 41.7 |
| | | | | | 51.0 | 163.0 | 21.0 | 39.1 |

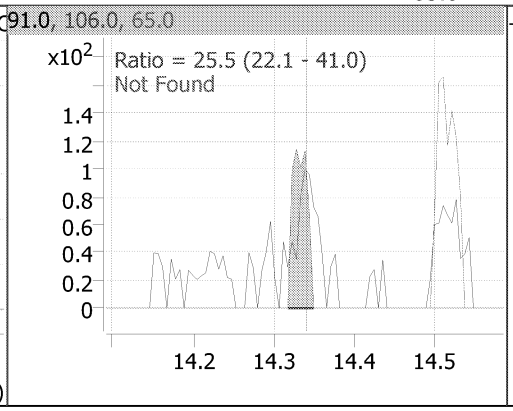


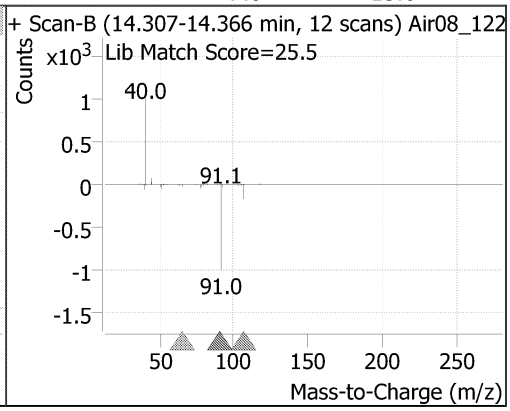



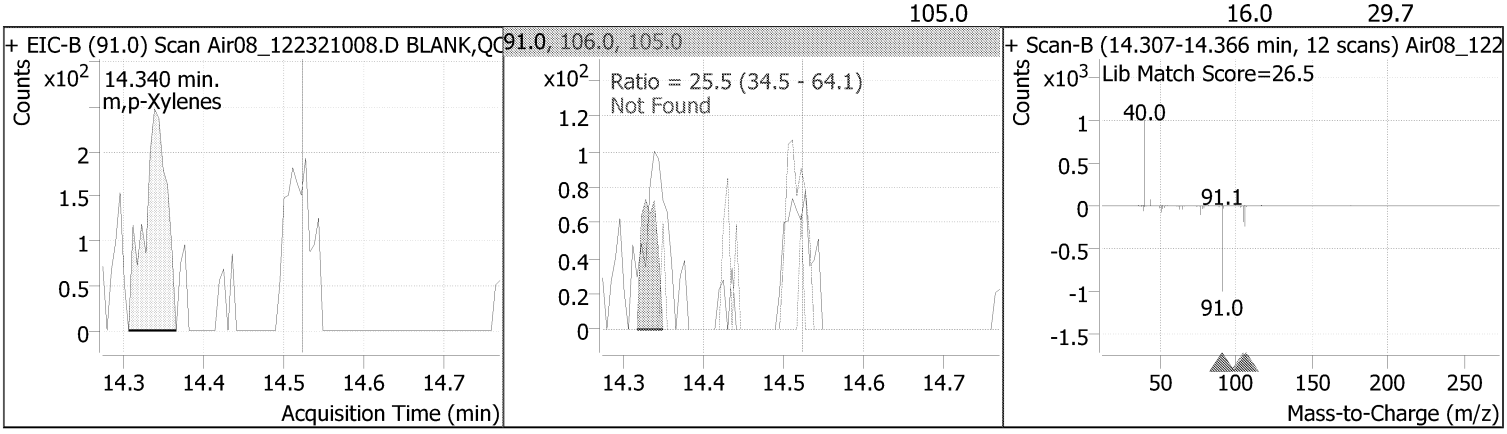

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0090 | 14.34 | -0.01 | 489 | 106.0 | 25.5 | 22.1 | 41.0 |
| | | | | | 65.0 | | 7.0 | 13.0 |



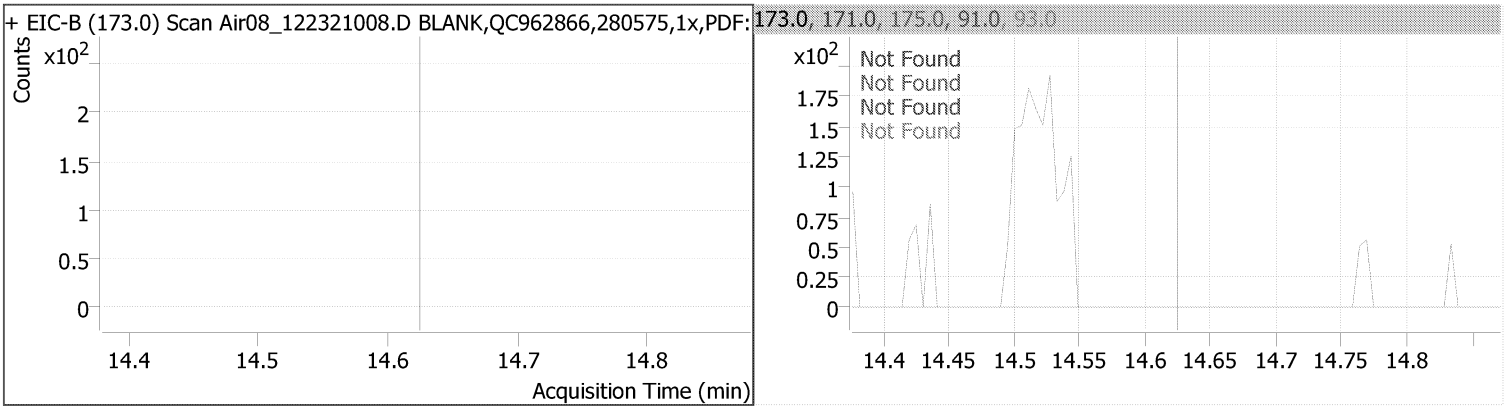



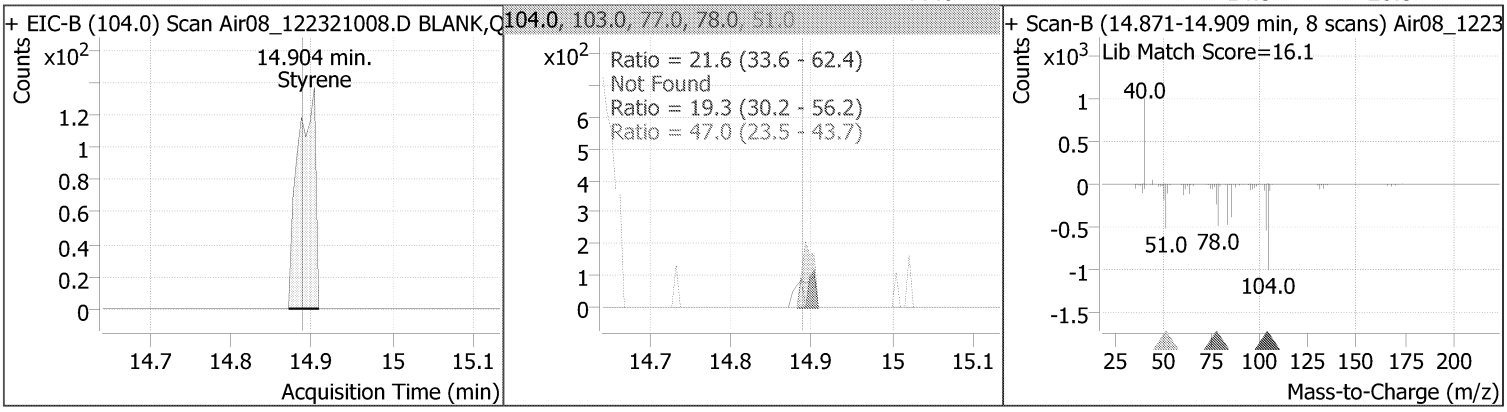
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.0113 | 14.34 | -0.19 | 489 | 106.0 | 25.5 | 34.5 | 64.1 |
| | | | | | 105.0 | | 16.0 | 29.7 |



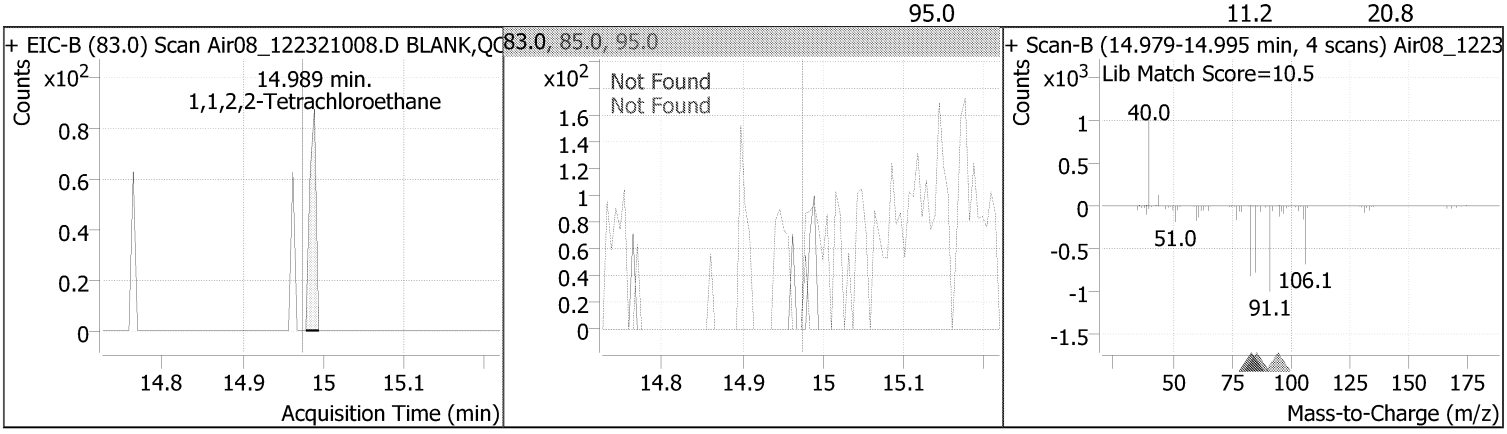

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromoform | N.D. | 14.63 | 171.0 | 51.4 | 175.0 | 48.7 | 91.0 | 21.2 |



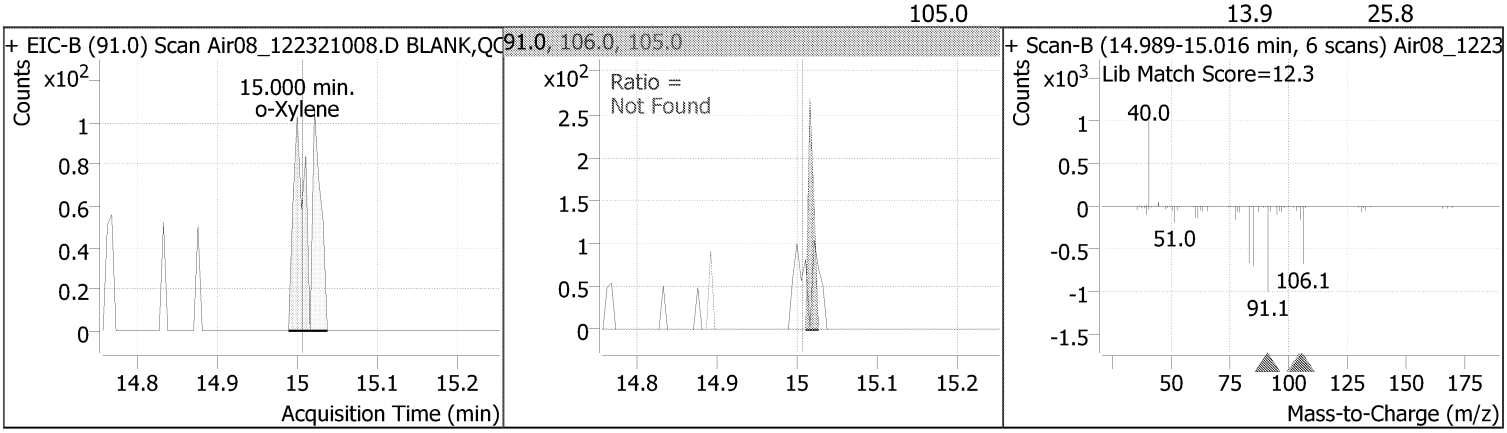

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.0072 | 14.90 | 0.01 | 208 | 103.0 | 21.6 | 33.6 | 62.4 |
| | | | | | 78.0 | 19.3 | 30.2 | 56.2 |
| | | | | | 51.0 | 47.0 | 23.5 | 43.7 |
| | | | | | 77.0 | | 14.3 | 26.5 |



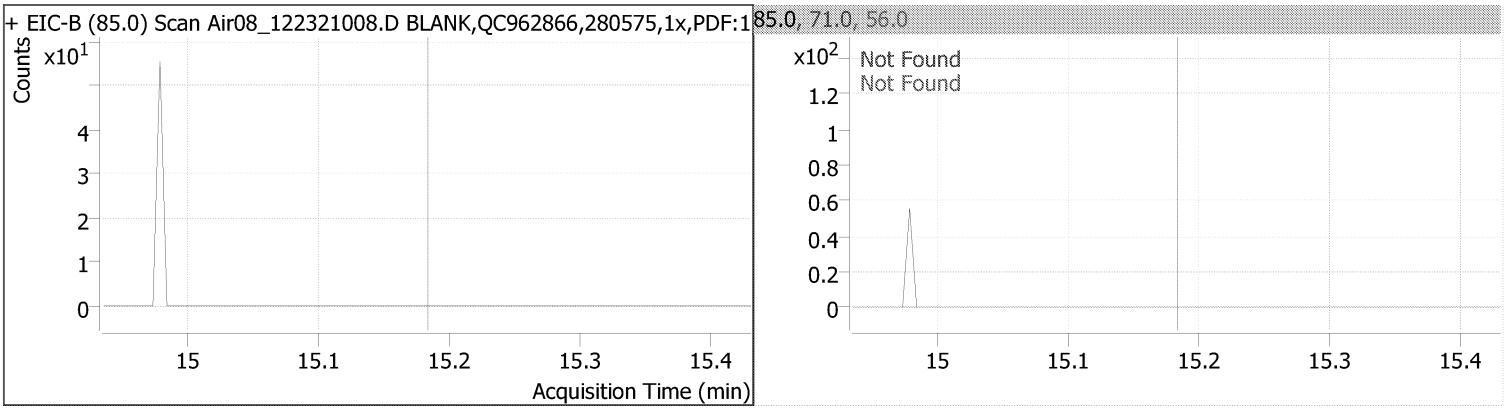
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.0014 | 14.99 | 0.01 | 49 | 85.0 | | 45.2 | 84.0 |
| | | | | | 95.0 | | 11.2 | 20.8 |



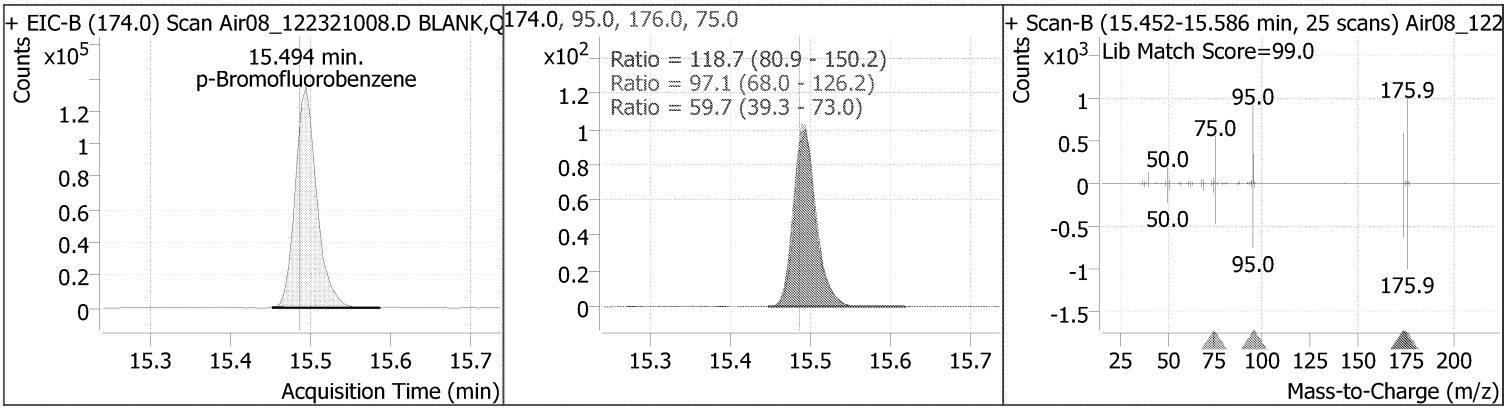

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.0022 | 15.00 | -0.01 | 99 | 106.0 | | 33.1 | 61.4 |
| | | | | | 105.0 | | 13.9 | 25.8 |



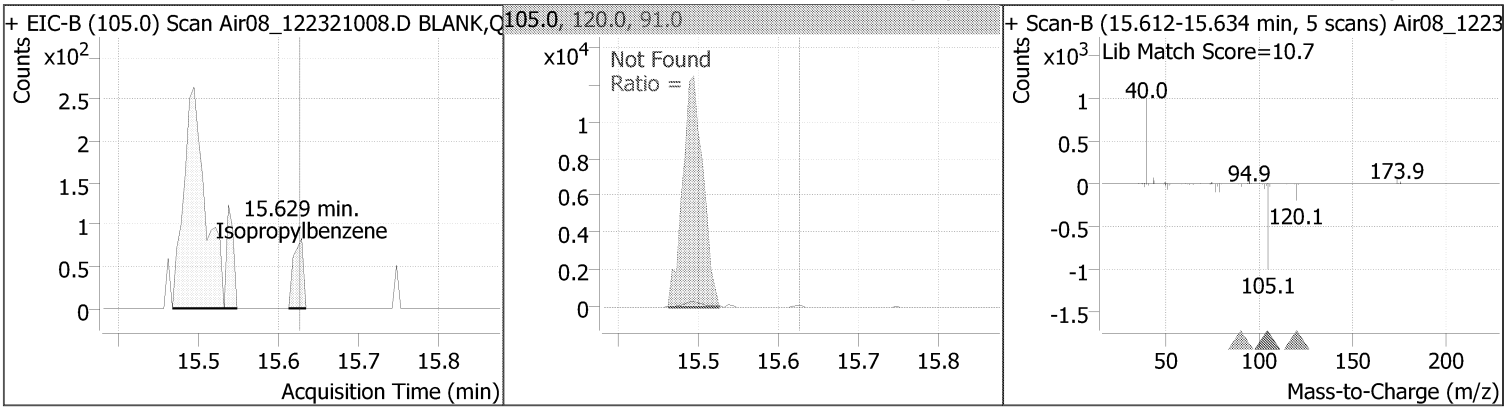

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| n-Nonane | N.D. | 15.19 | 56.0 | 85.7 | 71.0 | 70.7 |



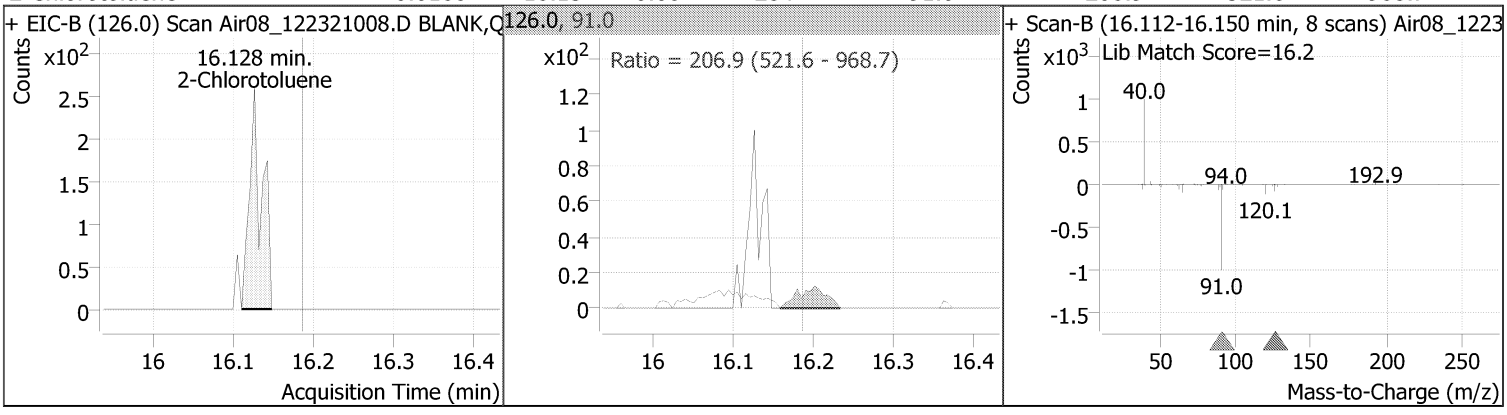
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 9.6241 | 15.49 | 0.00 | 248757 | 95.0 | 118.7 | 80.9 | 150.2 |
| | | | | | 176.0 | 97.1 | 68.0 | 126.2 |
| | | | | | 75.0 | 59.7 | 39.3 | 73.0 |



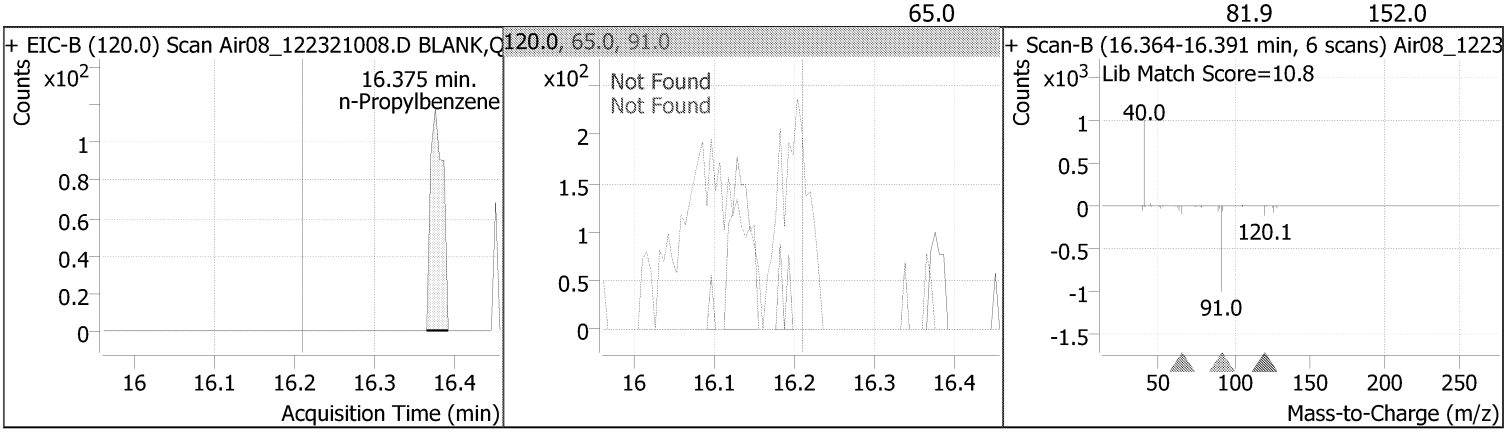

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0011 | 15.63 | -0.01 | 70 | 120.0 | | 18.7 | 34.6 |
| | | | | | 91.0 | | 4.2 | 7.9 |



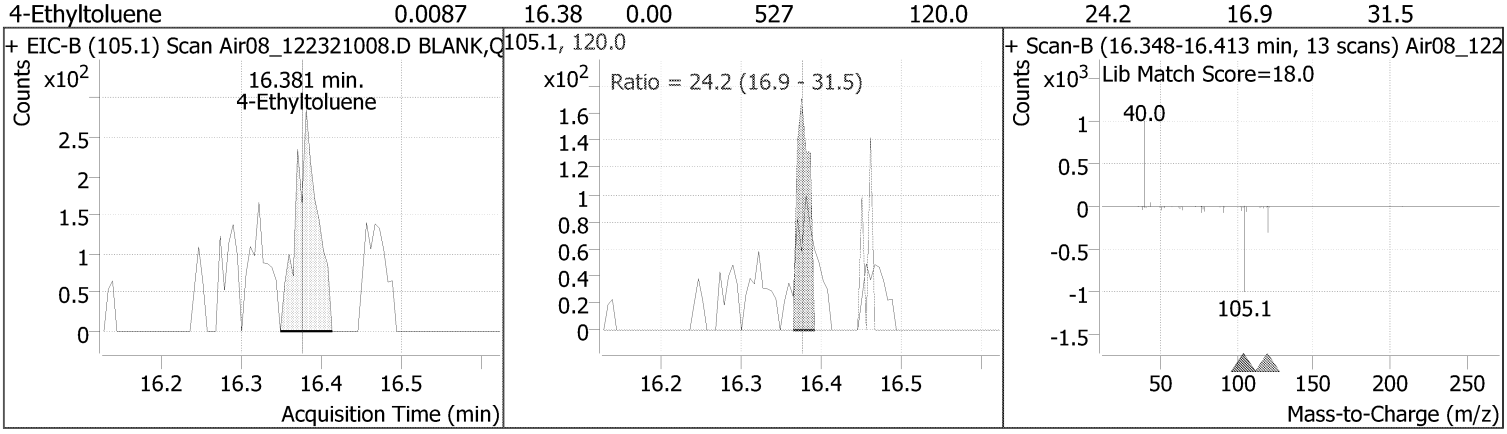

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.0166 | 16.13 | -0.06 | 284 | 91.0 | 206.9 | 521.6 | 968.7 |



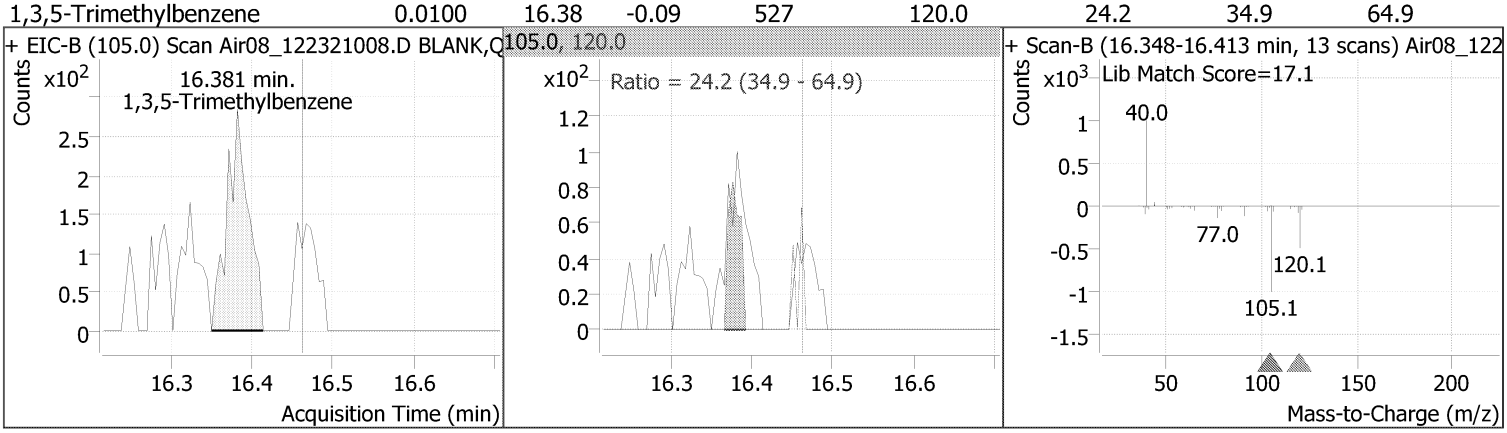
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0073 | 16.38 | 0.16 | 127 | 91.0 | | 740.1 | 1374.4 |
| | | | | | 65.0 | | 81.9 | 152.0 |



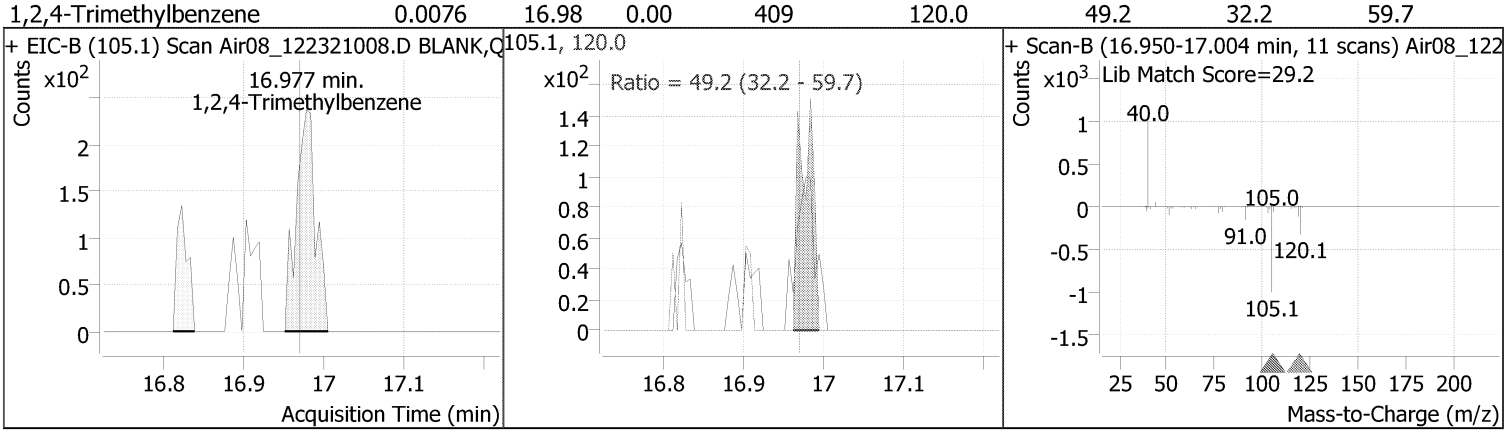

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0087 | 16.38 | 0.00 | 527 | 120.0 | 24.2 | 16.9 | 31.5 |



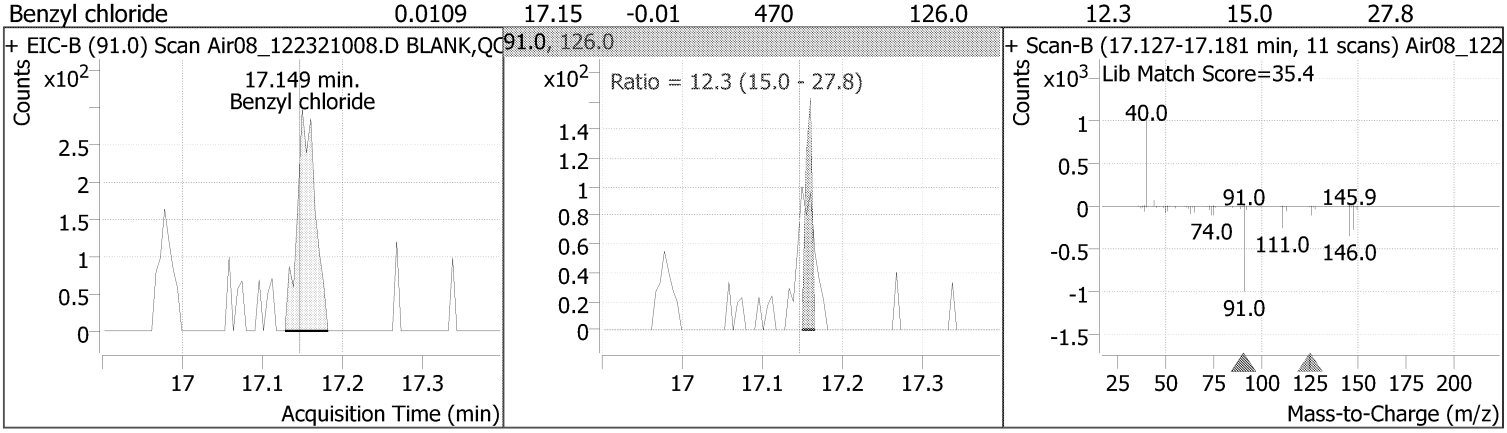

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.0100 | 16.38 | -0.09 | 527 | 120.0 | 24.2 | 34.9 | 64.9 |



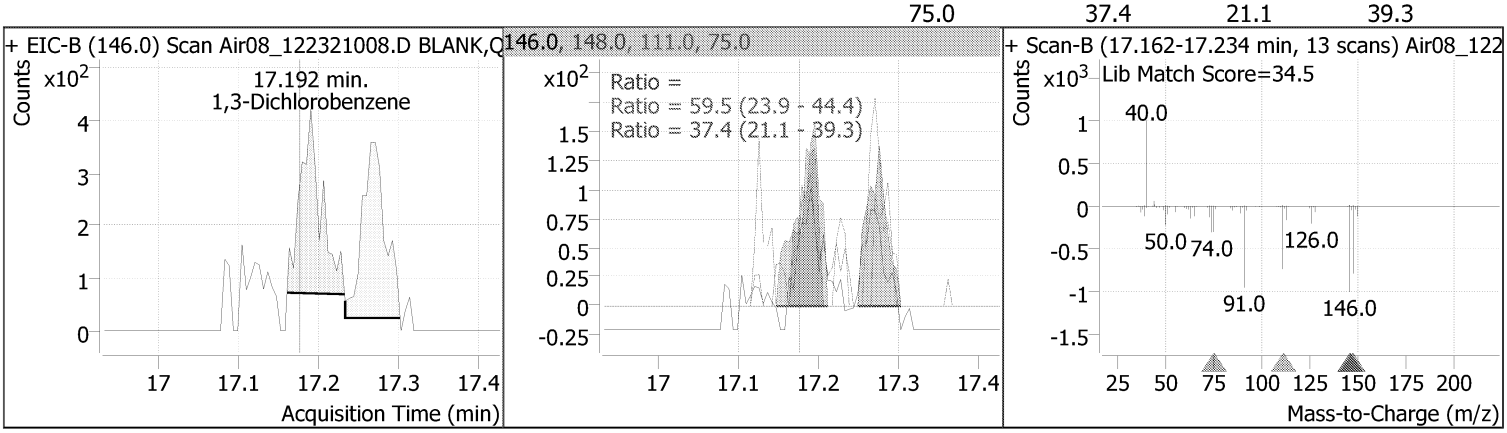

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.0076 | 16.98 | 0.00 | 409 | 120.0 | 49.2 | 32.2 | 59.7 |



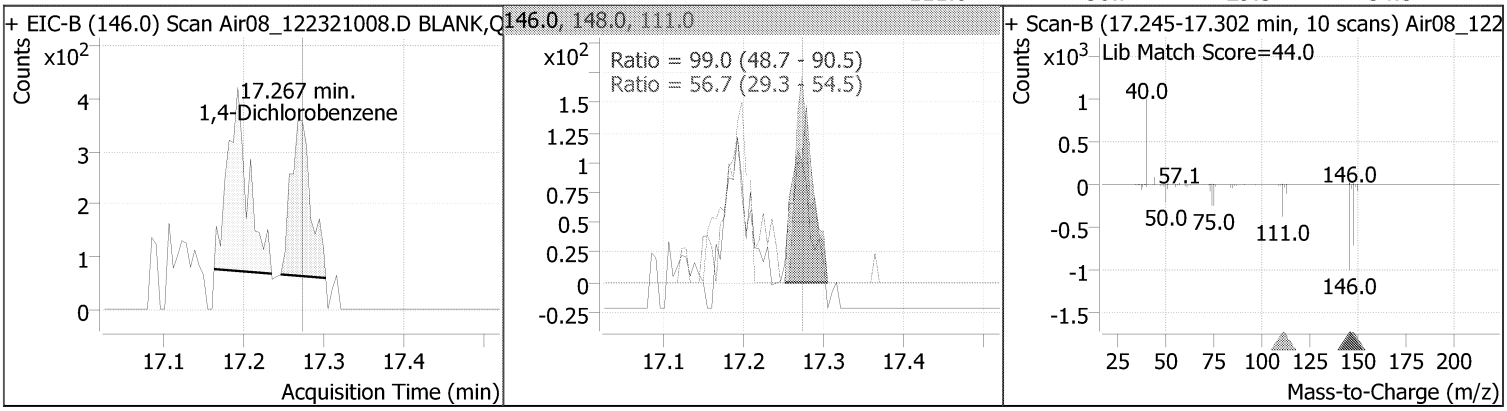
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0109 | 17.15 | -0.01 | 470 | 126.0 | 12.3 | 15.0 | 27.8 |



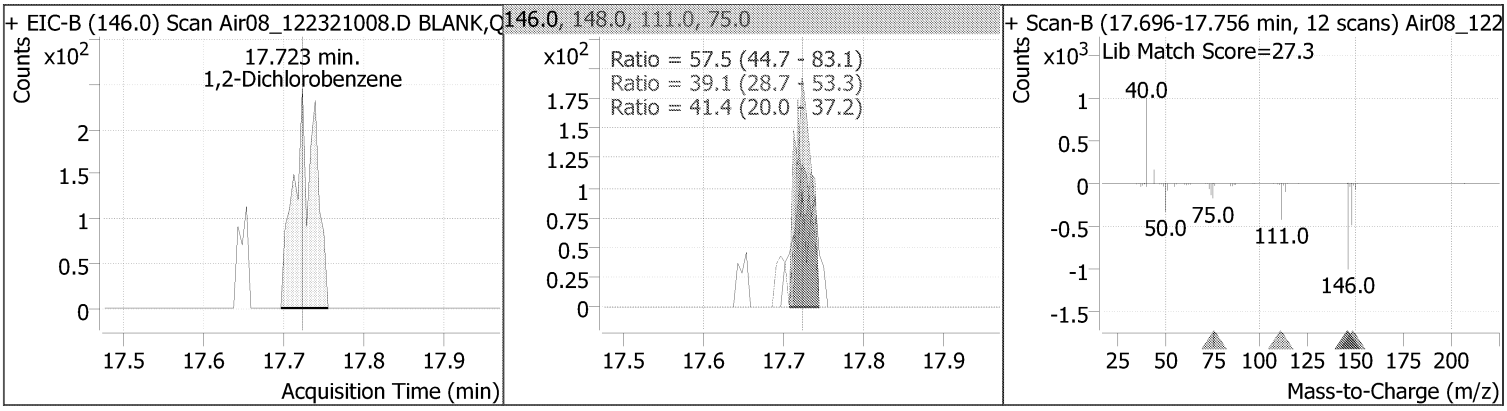

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.0153 | 17.19 | 0.01 | 616 | 148.0 | | 44.0 | 81.7 |
| | | | | | 111.0 | 59.5 | 23.9 | 44.4 |
| | | | | | 75.0 | 37.4 | 21.1 | 39.3 |



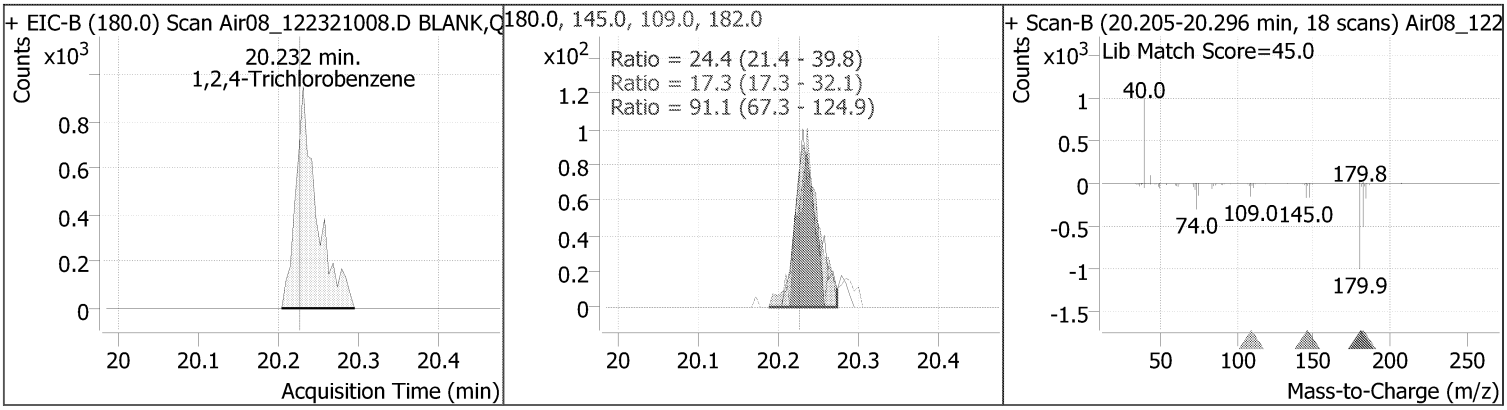

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.0129 | 17.27 | -0.01 | 509 | 148.0 | 99.0 | 48.7 | 90.5 |
| | | | | | 111.0 | 56.7 | 29.3 | 54.5 |



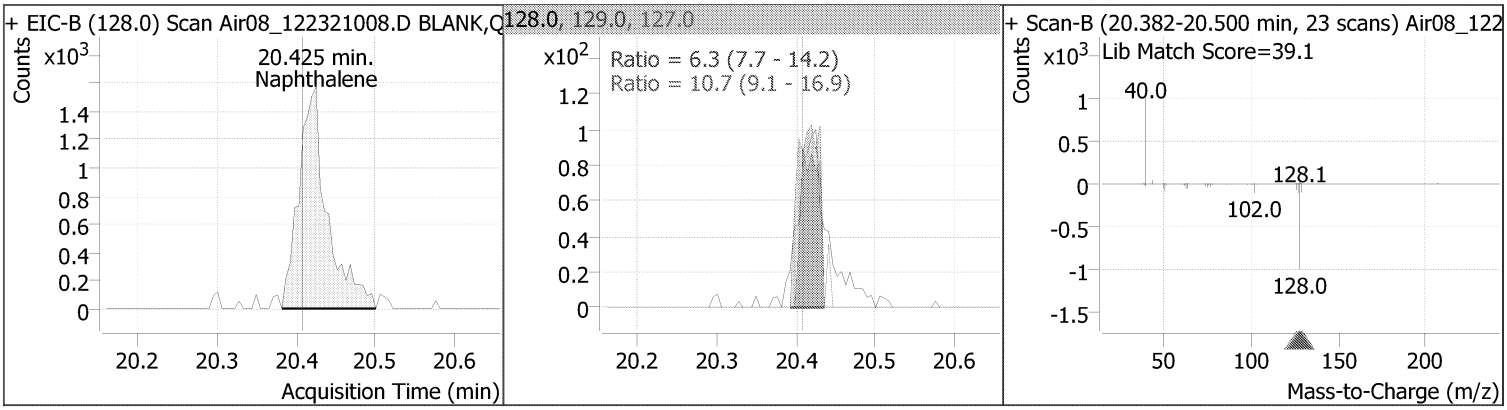
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.0112 | 17.72 | -0.01 | 458 | 148.0 | 57.5 | 44.7 | 83.1 |
| | | | | | 111.0 | 39.1 | 28.7 | 53.3 |
| | | | | | 75.0 | 41.4 | 20.0 | 37.2 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0638 | 20.23 | -0.01 | 1760 | 182.0 | 91.1 | 67.3 | 124.9 |
| | | | | | 145.0 | 24.4 | 21.4 | 39.8 |
| | | | | | 109.0 | 17.3 | 17.3 | 32.1 |

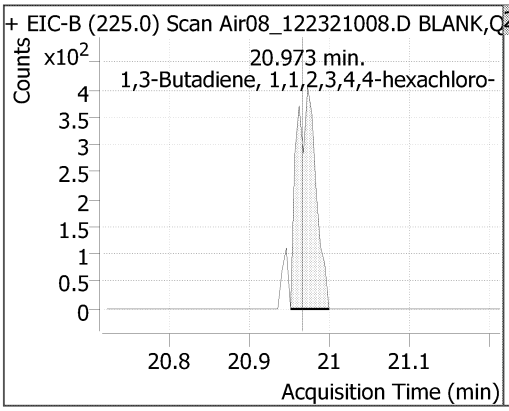


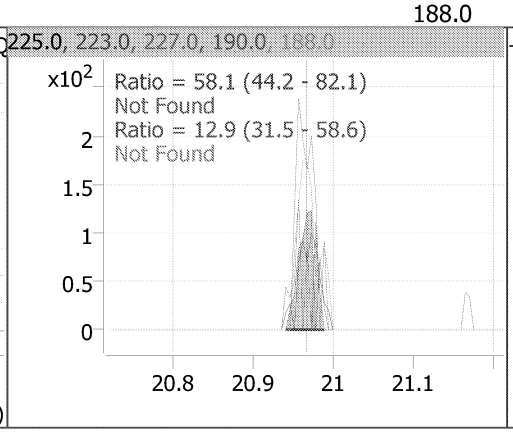

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.0798 | 20.43 | 0.01 | 3904 | 127.0 | 10.7 | 9.1 | 16.9 |
| | | | | | 129.0 | 6.3 | 7.7 | 14.2 |

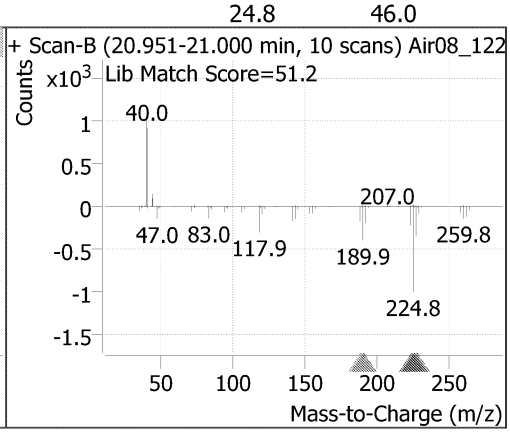


# Quantitation Results Report (Not Reviewed)

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0200 | 20.97 | 0.00 | 679 | 227.0 | | 45.3 | 84.1 |
| | | | | | 223.0 | 58.1 | 44.2 | 82.1 |
| | | | | | 190.0 | 12.9 | 31.5 | 58.6 |
| | | | | | 188.0 | | 24.8 | 46.0 |



ENTHALPY BLANK USER REPORT FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-06 Lab ID : QC967769 C10611
Seqnum : 372030848006.1 Matrix : Air
File : air06_012122006 Batch : 282262 Time : 21-JAN-2022 14:51
Cal : 372007975001 Caldate : 05-JAN-2022
IDF : 1.0 Raw Units : nL/L Units : nL/L
PDF : 1.0

| Analyte | Raw | Result | RL | Flags |
|---|---|---|---|---|
| Freon 12 | 0.0004923 | ND | 0.20 | u |
| Freon 114 | 0 | ND | 0.20 | u |
| Chloromethane | 0.005554 | ND | 0.20 | u |
| Vinyl Chloride | 0.0007464 | ND | 0.20 | u |
| Bromomethane | 0 | ND | 0.20 | u |
| Chloroethane | 0.0008548 | ND | 0.20 | u |
| Trichlorofluoromethane | 0 | ND | 0.20 | u |
| 1,1-Dichloroethene | 0 | ND | 0.20 | u |
| Freon 113 | 0 | ND | 0.20 | u |
| Acetone | 0.09147 | ND | 1.0 | u |
| Carbon Disulfide | 0.005944 | ND | 0.20 | u |
| Isopropanol (IPA) | 0.03350 | ND | 1.0 | u |
| Methylene Chloride | 0.1285 | ND | 0.20 | u |
| trans-1,2-Dichloroethene | 0.001328 | ND | 0.20 | u |
| MTBE | 0 | ND | 0.20 | u |
| n-Hexane | 0.02730 | ND | 0.20 | calc u |
| 1,1-Dichloroethane | 0 | ND | 0.20 | u |
| Vinyl Acetate | 0.007079 | ND | 1.0 | u |
| cis-1,2-Dichloroethene | 0.002478 | ND | 0.20 | u |
| 2-Butanone | 0.01201 | ND | 1.0 | u |
| Chloroform | 0.001590 | ND | 0.20 | u |
| 1,1,1-Trichloroethane | 0.0002159 | ND | 0.20 | u |
| Carbon Tetrachloride | 0 | ND | 0.20 | u |
| Benzene | 0.006150 | ND | 0.20 | u |
| 1,2-Dichloroethane | 0.001435 | ND | 0.20 | u |
| Trichloroethene | 0.01818 | ND | 0.20 | u |
| 1,2-Dichloropropane | 0.04343 | ND | 0.20 | calc u |
| Bromodichloromethane | 0.0003119 | ND | 0.20 | u |
| cis-1,3-Dichloropropene | 0 | ND | 0.20 | u |
| 4-Methyl-2-Pentanone | 0.005224 | ND | 0.20 | u |
| Toluene | 0.005123 | ND | 0.20 | u |
| trans-1,3-Dichloropropene | 0.001686 | ND | 0.20 | u |
| 1,1,2-Trichloroethane | 0.001058 | ND | 0.20 | u |
| Tetrachloroethene | 0.001027 | ND | 0.20 | u |
| 2-Hexanone | 0.004929 | ND | 0.50 | u |
| Dibromochloromethane | 0.001601 | ND | 0.20 | u |
| 1,2-Dibromoethane | 0.004809 | ND | 0.20 | u |
| Chlorobenzene | 0.005928 | ND | 0.20 | u |
| Ethylbenzene | 0.003040 | ND | 0.20 | u |
| m,p-Xylenes | 0.007317 | ND | 0.40 | u |
| o-Xylene | 0.004166 | ND | 0.20 | u |
| Styrene | 0.006056 | ND | 0.20 | u |
| Bromoform | 0.003741 | ND | 0.20 | u |
| 1,1,2,2-Tetrachloroethane | 0.004746 | ND | 0.20 | u |
| 1,1,1,2-Tetrachloroethane | 0.003235 | ND | 0.20 | u |
| 4-Ethyltoluene | 0.005964 | ND | 0.20 | u |
| 1,3,5-Trimethylbenzene | 0.007269 | ND | 0.20 | u |

| Analyte | Raw | Result | RL | Flags |
|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.007958 | ND | 0.20 | u |
| 1,3-Dichlorobenzene | 0.01232 | ND | 0.20 | u |
| 1,4-Dichlorobenzene | 0.01429 | ND | 0.20 | u |
| Benzyl chloride | 0.01021 | ND | 0.20 | u |
| 1,2-Dichlorobenzene | 0.01600 | ND | 0.20 | u |
| 1,2,4-Trichlorobenzene | 0.03052 | ND | 0.20 | calc u |
| Hexachlorobutadiene | 0.01251 | ND | 0.20 | u |

No TICs found.

| Surrogate | Raw | Spiked | Result | %Rec | Limits | Flags |
|---|---|---|---|---|---|---|
| Bromofluorobenzene | 10.28 | 10.00 | 10.28 | 103 | 60-140 | u |

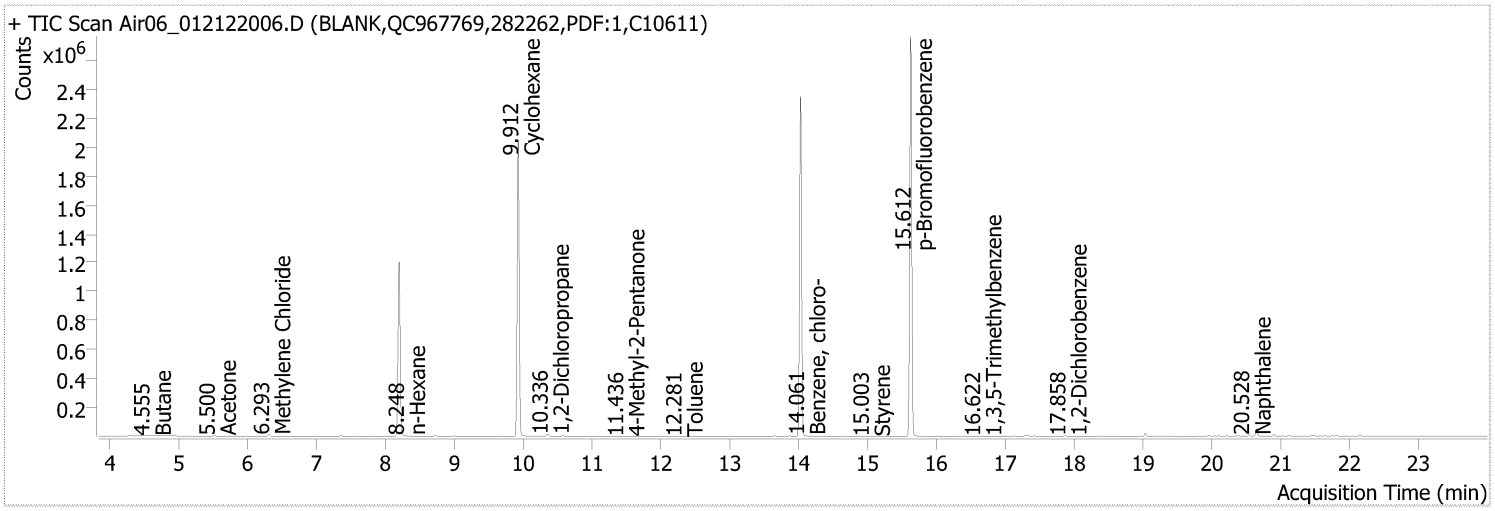
| ISTD (ICAL air06_010522009) | ICAL Area | BLANK Area | %Drift | ICAL RT | BLANK RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 406870 | -1.05 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1659708 | 6.97 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 808509 | -4.58 | 14.01 | 14.01 | 0.00 |

Analyst: DJL Date: 01/26/22 Reviewer: LW Date: 01/27/22

calc=check quantitation u=use

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012122006.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/21/2022 2:51:42 PM |
| Sample Name | BLANK,QC967769,282262,PDF:1,C10611 | Instrument | Air-MS-06 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x400mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 21 1305 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



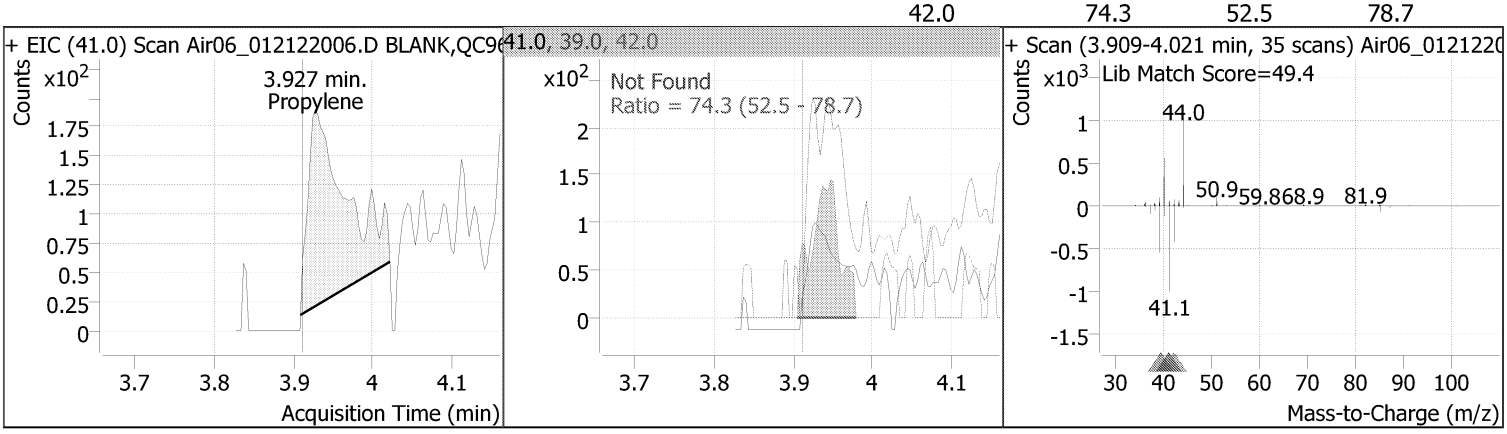

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 406870 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.912 | 114.0 | 1659708 | 10.0000 | nL/L | | 0.003 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 808509 | 10.0000 | nL/L | # | 0.000 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1092868 | 10.2791 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 102.79% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.927 | 41.0 | 547 | 0.0136 | nL/L | | 49 |
| T Freon 12 | 3.986 | 85.0 | 52 | 0.0005 | nL/L | | 53 |
| T Chloromethane | 4.151 | 50.0 | 277 | 0.0056 | nL/L | | 50 |
| T Freon 114 | 0.000 | | 0 | N.D. | | | |
| T Vinyl Chloride | 4.364 | 62.0 | 37 | 0.0007 | nL/L | | 51 |
| T 1,3-Butadiene | 4.575 | 54.0 | 26 | 0.0006 | nL/L | # | 1 |
| T Butane | 4.555 | 43.0 | 689 | 0.0083 | nL/L | | 91 |
| T Bromomethane | 0.000 | | 0 | N.D. | | | |
| T Chloroethane | 4.885 | 64.0 | 21 | 0.0009 | nL/L | | 42 |
| T Ethanol | 5.037 | 45.0 | 2241 | 0.0913 | nL/L | | 81 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 5.361 | 56.0 | 254 | 0.0117 | nL/L | # | 38 |
| T Acetone | 5.500 | 58.0 | 2339 | 0.0915 | nL/L | # | 85 |
| T Trichloromonofluoromethane | 0.000 | | 0 | N.D. | | | |
| T Isopropanol (IPA) | 5.730 | 45.0 | 3068 | 0.0335 | nL/L | # | 78 |
| T n-Pentane | 5.950 | 43.0 | 993 | 0.0097 | nL/L | # | 97 |
| T 1,1-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Tert-butyl alcohol (TBA) | 6.326 | 59.0 | 662 | 0.0063 | nL/L | # | 1 |
| T Methylene Chloride | 6.293 | 84.0 | 5783 | 0.1285 | nL/L | | 97 |
| T 3-Chloropropene | 6.585 | 76.0 | 773 | 0.0373 | nL/L | | 42 |
| T Freon 113 | 0.000 | | 0 | N.D. | | | |
| T Carbon Disulfide | 6.585 | 76.0 | 773 | 0.0059 | nL/L | # | 50 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.132 | 61.0 | 104 | 0.0013 | nL/L | # | 53 |
| T 1,1-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T MTBE | 0.000 | | 0 | N.D. | | | |
| T Vinyl Acetate | 7.446 | 43.0 | 1137 | 0.0071 | nL/L | # | 84 |
| T 2-Butanone | 7.701 | 43.0 | 1485 | 0.0120 | nL/L | # | 76 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 195 | 0.0025 | nL/L | # | 56 |
| T Ethyl Acetate | 8.264 | 61.0 | 74 | 0.0038 | nL/L | # | 1 |
| T n-Hexane | 8.248 | 57.0 | 2435 | 0.0273 | nL/L | | 96 |
| T Chloroform | 8.303 | 83.0 | 160 | 0.0016 | nL/L | # | 68 |
| T Tetrahydrofuran | 8.708 | 72.0 | 1112 | 0.0501 | nL/L | # | 87 |
| T 1,2-Dichloroethane | 8.960 | 62.0 | 106 | 0.0014 | nL/L | | 46 |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 21 | 0.0002 | nL/L | | 27 |
| T Benzene | 9.611 | 78.0 | 892 | 0.0062 | nL/L | # | 85 |
| T Carbon Tetrachloride | 0.000 | | 0 | N.D. | | | |
| T Cyclohexane | 9.912 | 84.0 | 2019 | 0.0333 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 10.336 | 63.0 | 2953 | 0.0434 | nL/L | # | 41 |
| T Methane, bromodichloro- | 10.498 | 83.0 | 35 | 0.0003 | nL/L | | 32 |
| T 1,4-Dioxane | 10.621 | 88.0 | 463 | 0.0130 | nL/L | # | 87 |
| T Trichloroethene | 10.563 | 132.0 | 1258 | 0.0182 | nL/L | | 97 |
| T 2,2,4-Trimethylpentane | 10.614 | 57.0 | 384 | 0.0012 | nL/L | # | 56 |
| T Methyl methacrylate | 10.731 | 69.0 | 141 | 0.0024 | nL/L | # | 50 |
| T n-Heptane | 0.000 | | 0 | N.D. | | | |
| T cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 4-Methyl-2-Pentanone | 11.436 | 58.0 | 312 | 0.0052 | nL/L | # | 44 |
| T trans-1,3-Dichloropropene | 11.822 | 110.0 | 37 | 0.0017 | nL/L | # | 1 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 68 | 0.0011 | nL/L | # | 30 |
| T Toluene | 12.281 | 91.0 | 1008 | 0.0051 | nL/L | # | 94 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 1069235 | 0.0821 | nL/L | | 100 |
| T 2-Hexanone | 12.560 | 58.0 | 378 | 0.0049 | nL/L | # | 1 |
| T Dibromochloromethane | 12.670 | 129.0 | 188 | 0.0016 | nL/L | # | 45 |
| T 1,2-Dibromoethane | 12.922 | 108.9 | 479 | 0.0048 | nL/L | | 87 |
| T Tetrachloroethene | 13.385 | 166.0 | 105 | 0.0010 | nL/L | # | 72 |
| T 1,1,1,2-Tetrachloroethane | 13.857 | 131.0 | 226 | 0.0032 | nL/L | # | 1 |
| T Benzene, chloro- | 14.061 | 112.0 | 821 | 0.0059 | nL/L | | 46 |
| T Ethylbenzene | 14.440 | 91.0 | 669 | 0.0030 | nL/L | # | 75 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 727176 | 0.0764 | nL/L | | 100 |
| T m,p-Xylenes | 14.625 | 91.0 | 1294 | 0.0073 | nL/L | # | 80 |
| T Bromoform | 14.686 | 173.0 | 453 | 0.0037 | nL/L | # | 2 |
| T Styrene | 15.003 | 104.0 | 849 | 0.0061 | nL/L | # | 86 |
| T 1,1,2,2-Tetrachloroethane | 15.097 | 83.0 | 634 | 0.0047 | nL/L | | 96 |
| T o-Xylene | 15.126 | 91.0 | 758 | 0.0042 | nL/L | # | 79 |
| T n-Nonane | 15.359 | 85.0 | 137 | 0.0033 | nL/L | # | 37 |
| T Isopropylbenzene | 15.770 | 105.0 | 785 | 0.0031 | nL/L | | 81 |
| T 2-Chlorotoluene | 16.324 | 126.0 | 244 | 0.0038 | nL/L | # | 31 |
| T n-Propylbenzene | 16.353 | 120.0 | 366 | 0.0052 | nL/L | # | 1 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 1472 | 0.0060 | nL/L | # | 90 |
| T 1,3,5-Trimethylbenzene | 16.622 | 105.0 | 1552 | 0.0073 | nL/L | # | 94 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 1688 | 0.0080 | nL/L | # | 97 |
| T Benzyl chloride | 17.298 | 91.0 | 1904 | 0.0102 | nL/L | | 98 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 1793 | 0.0123 | nL/L | | 97 |
| T 1,4-Dichlorobenzene | 17.405 | 146.0 | 2102 | 0.0143 | nL/L | # | 95 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 2271 | 0.0160 | nL/L | | 95 |
| T 1,2,4-Trichlorobenzene | 20.366 | 179.9 | 3569 | 0.0305 | nL/L | | 93 |
| T Naphthalene | 20.528 | 128.0 | 10851 | 0.0448 | nL/L | | 98 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.108 | 225.0 | 1571 | 0.0125 | nL/L | | 92 |

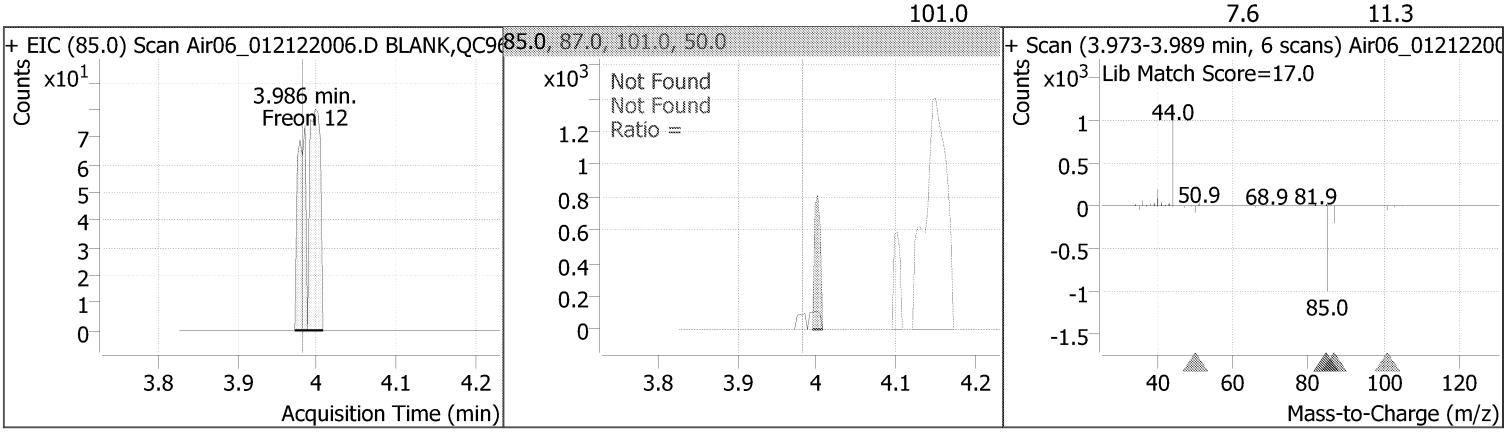
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

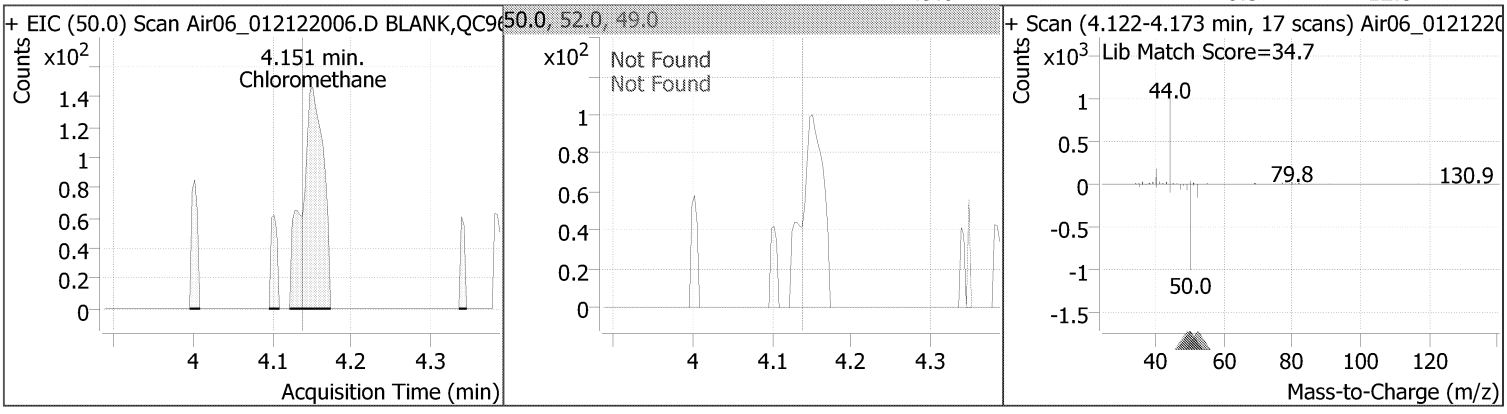
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.0136 | 3.93 | 0.02 | 547 | 39.0 | | 58.6 | 87.9 |
| | | | | | 42.0 | 74.3 | 52.5 | 78.7 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.0005 | 3.99 | 0.01 | 52 | 87.0 | | 26.0 | 38.9 |
| | | | | | 50.0 | | 11.2 | 16.8 |
| | | | | | 101.0 | | 7.6 | 11.3 |

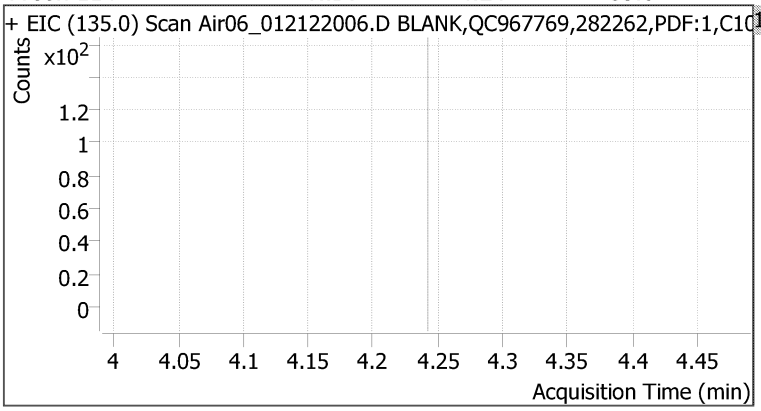


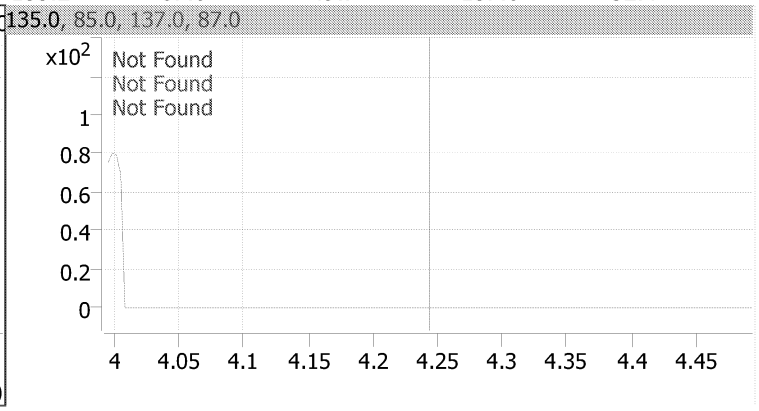

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0056 | 4.15 | 0.02 | 277 | 52.0 | | 25.8 | 38.7 |
| | | | | | 49.0 | | 8.3 | 12.5 |



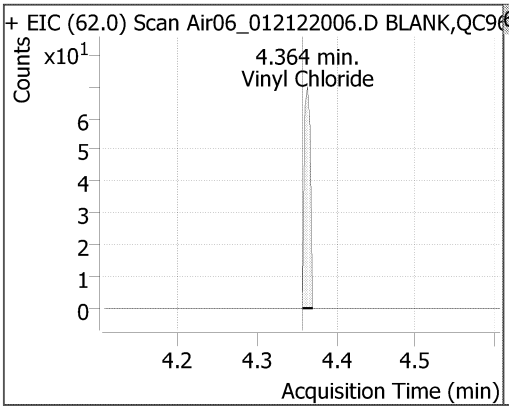
# Quantitation Results Report (Not Reviewed)

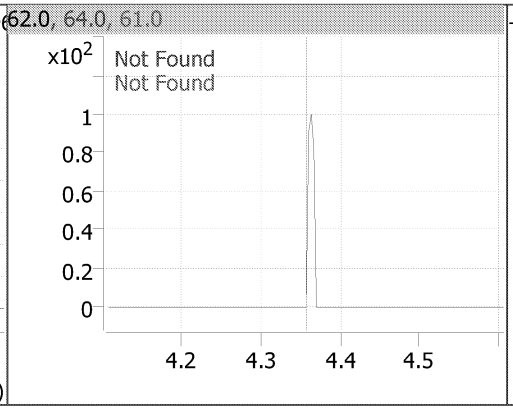
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | N.D. | 4.24 | 85.0 | 155.2 | 87.0 | 49.7 | 137.0 | 32.4 |

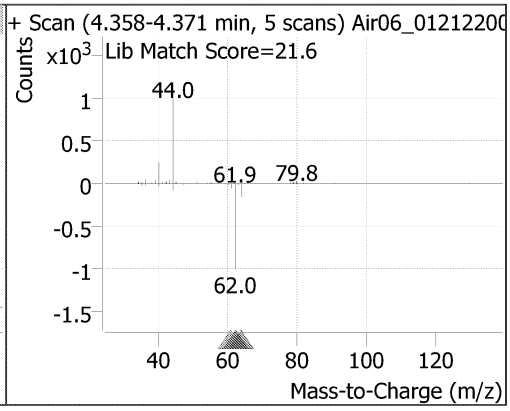


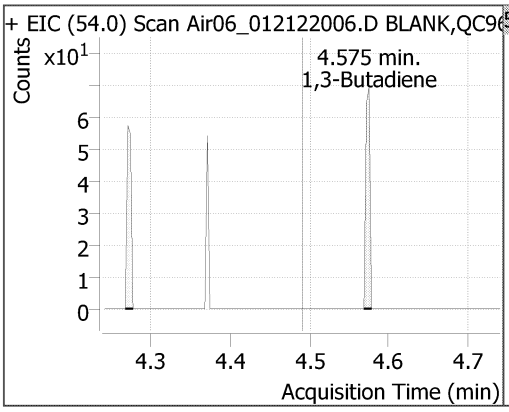

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.0007 | 4.36 | 0.01 | 37 | 64.0 | | 24.5 | 36.7 |
| | | | | | 61.0 | | 7.2 | 10.9 |

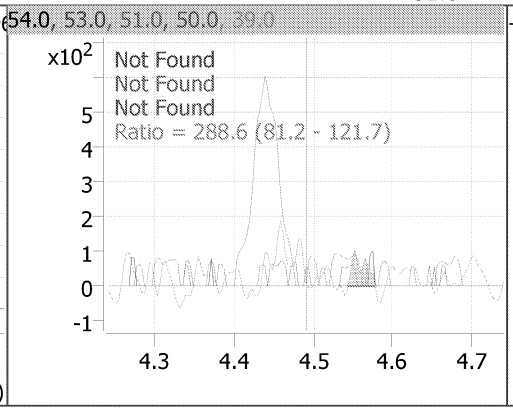


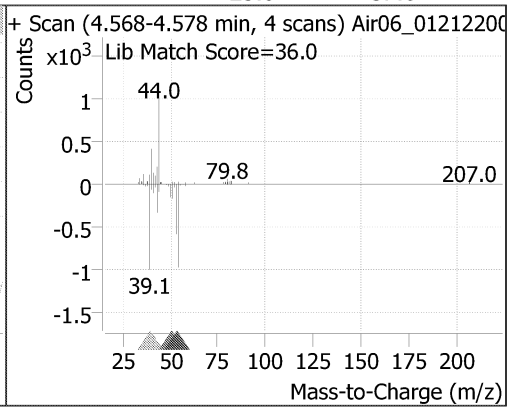



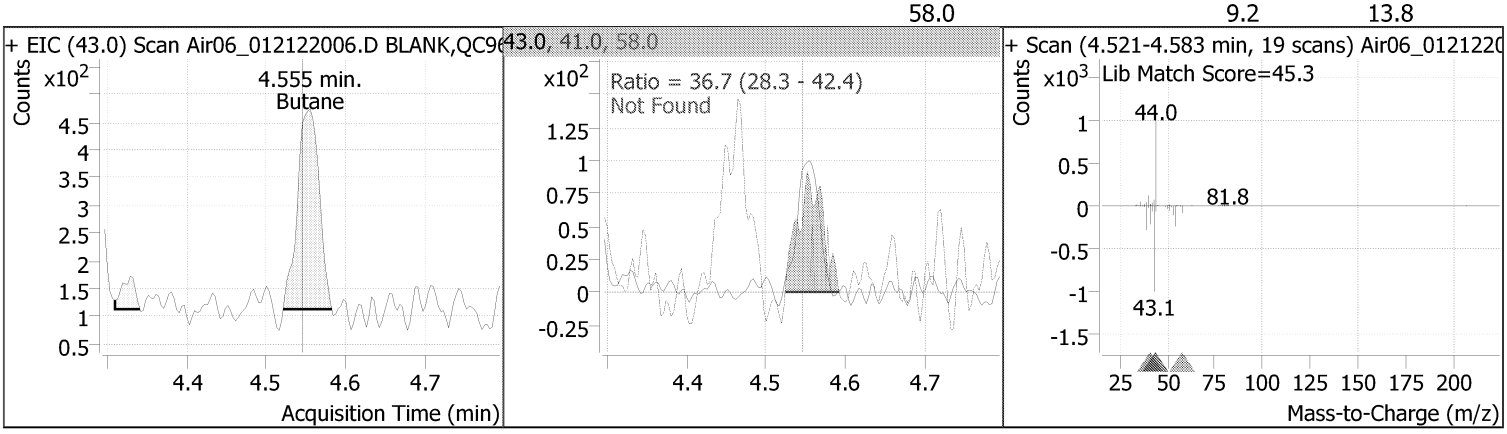

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0006 | 4.57 | 0.09 | 26 | 39.0 | 288.6 | 81.2 | 121.7 |
| | | | | | 53.0 | | 59.5 | 89.3 |
| | | | | | 50.0 | | 27.7 | 41.6 |
| | | | | | 51.0 | | 25.0 | 37.6 |



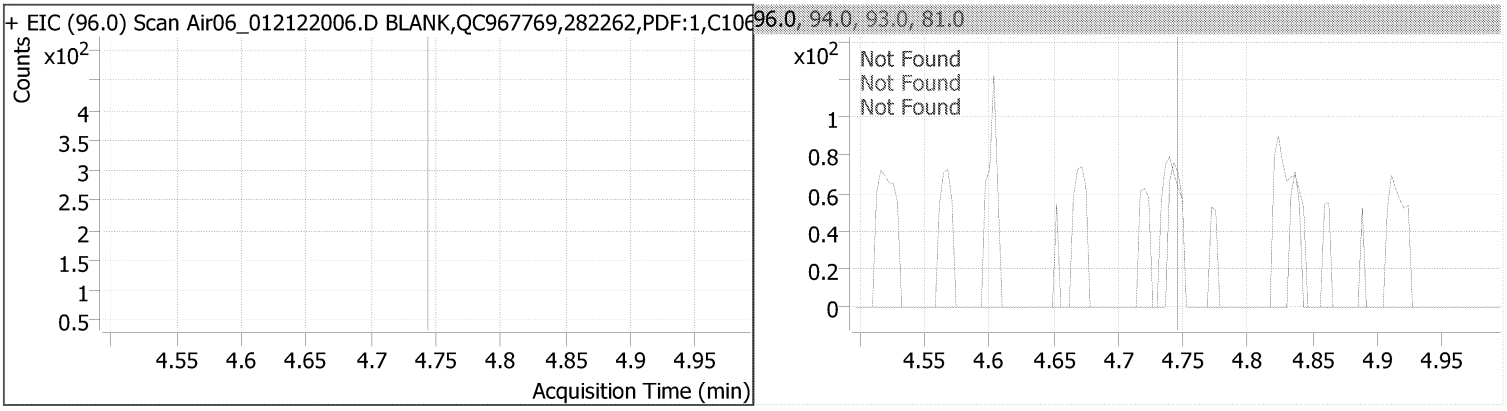



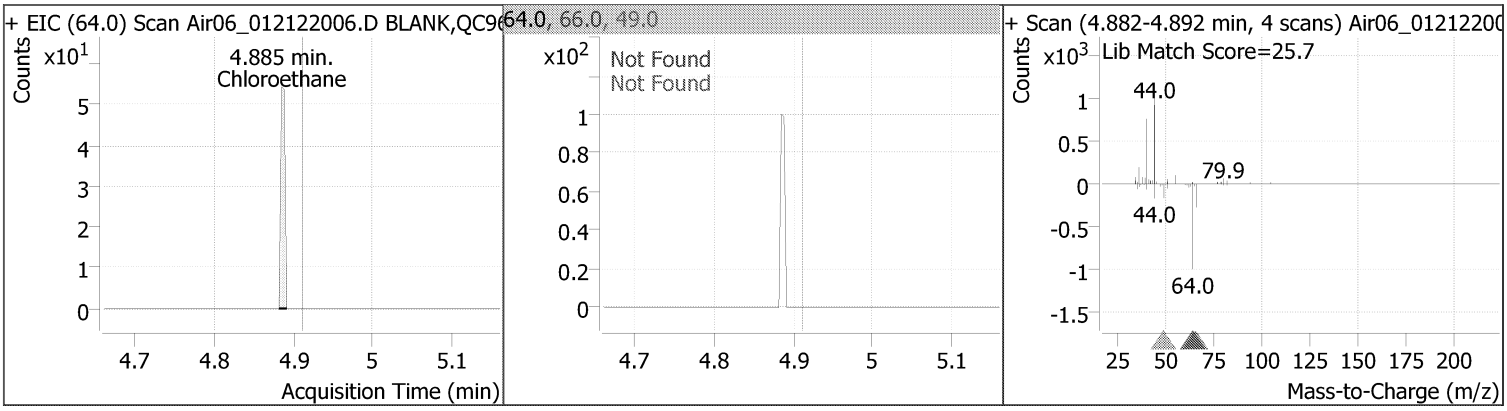
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0083 | 4.56 | 0.01 | 689 | 41.0 | 36.7 | 28.3 | 42.4 |
| | | | | | 58.0 | | 9.2 | 13.8 |



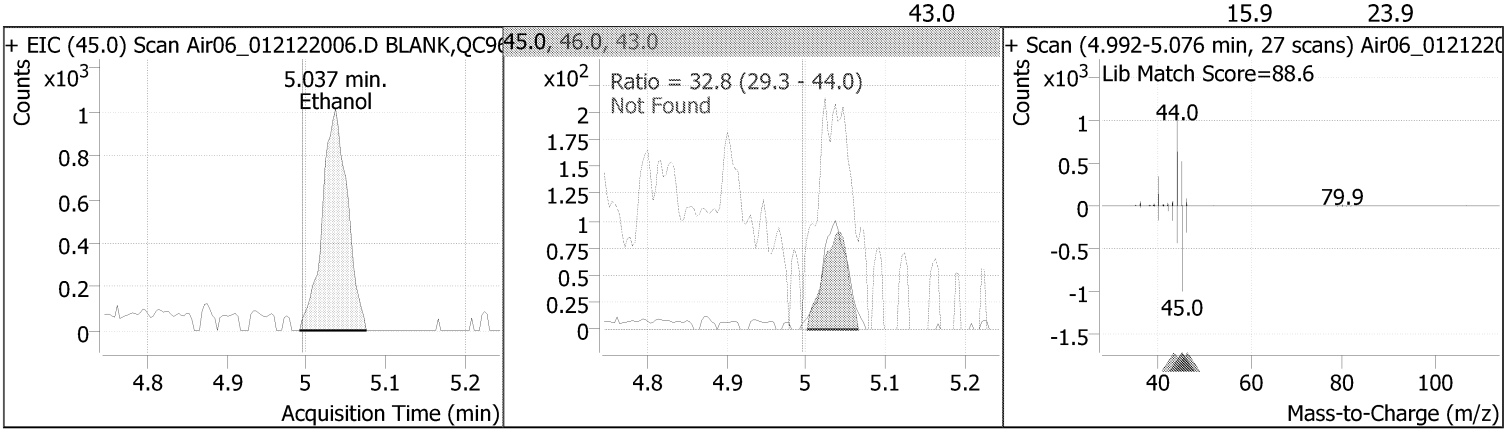

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | N.D. | 4.74 | 94.0 | 107.1 | 93.0 | 22.6 | 81.0 | 17.5 |



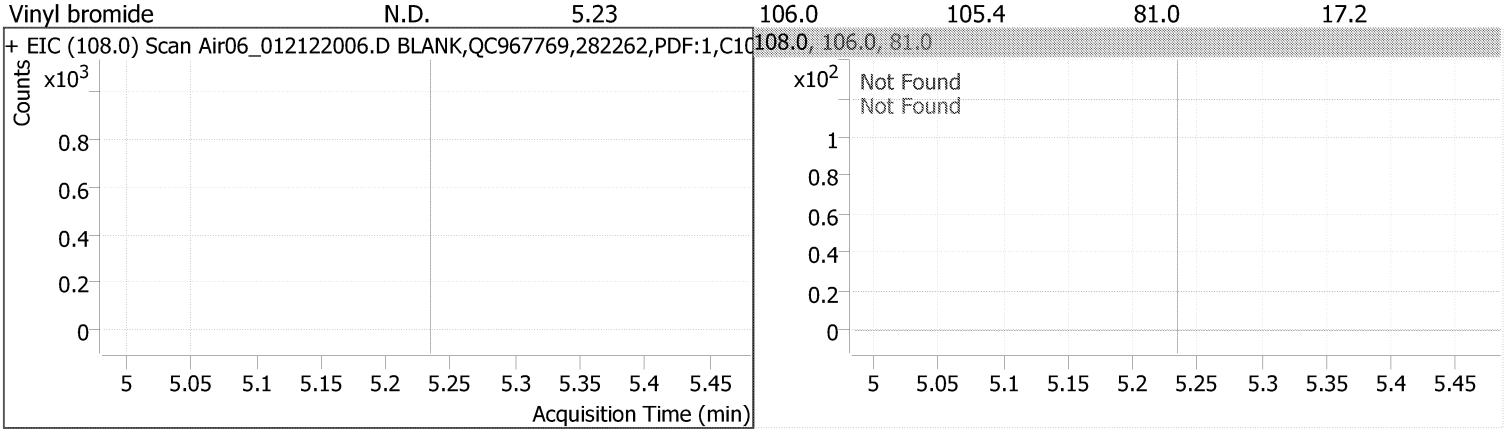

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.0009 | 4.89 | -0.02 | 21 | 49.0 | | 27.4 | 41.1 |
| | | | | | 66.0 | | 24.4 | 36.6 |



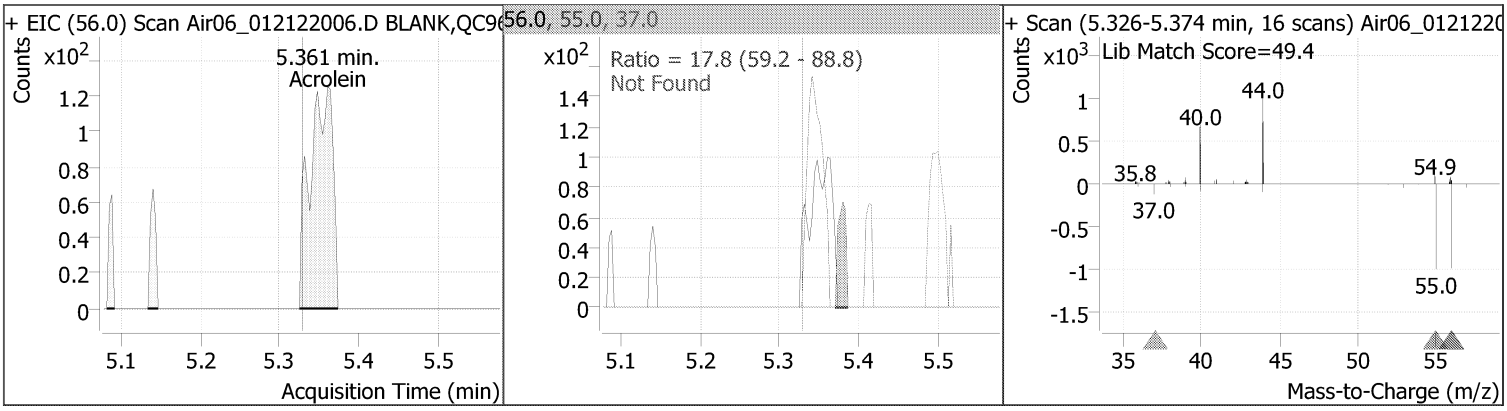
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.0913 | 5.04 | 0.05 | 2241 | 46.0 | 32.8 | 29.3 | 44.0 |
| | | | | | 43.0 | | 15.9 | 23.9 |




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.23 | 106.0 | 105.4 | 81.0 | 17.2 |

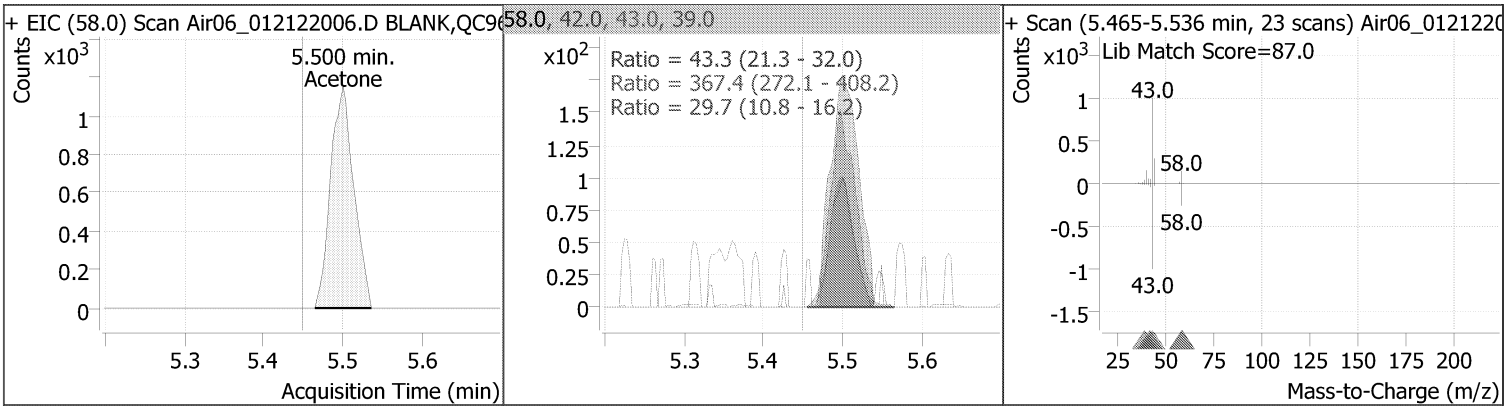



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0117 | 5.36 | 0.04 | 254 | 55.0 | 17.8 | 59.2 | 88.8 |
| | | | | | 37.0 | | 7.3 | 11.0 |

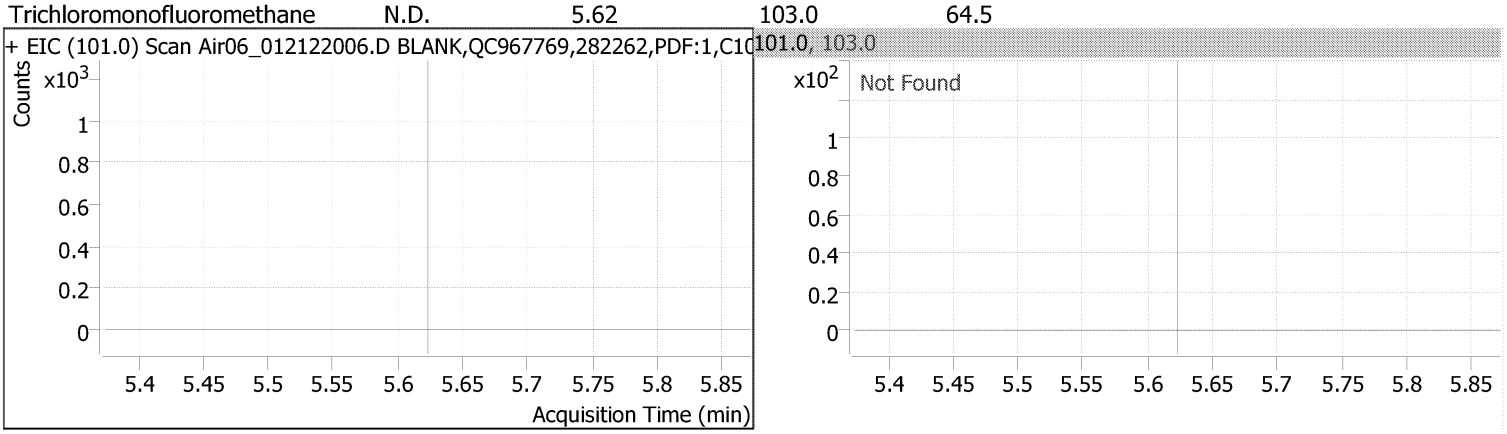


# Quantitation Results Report (Not Reviewed)

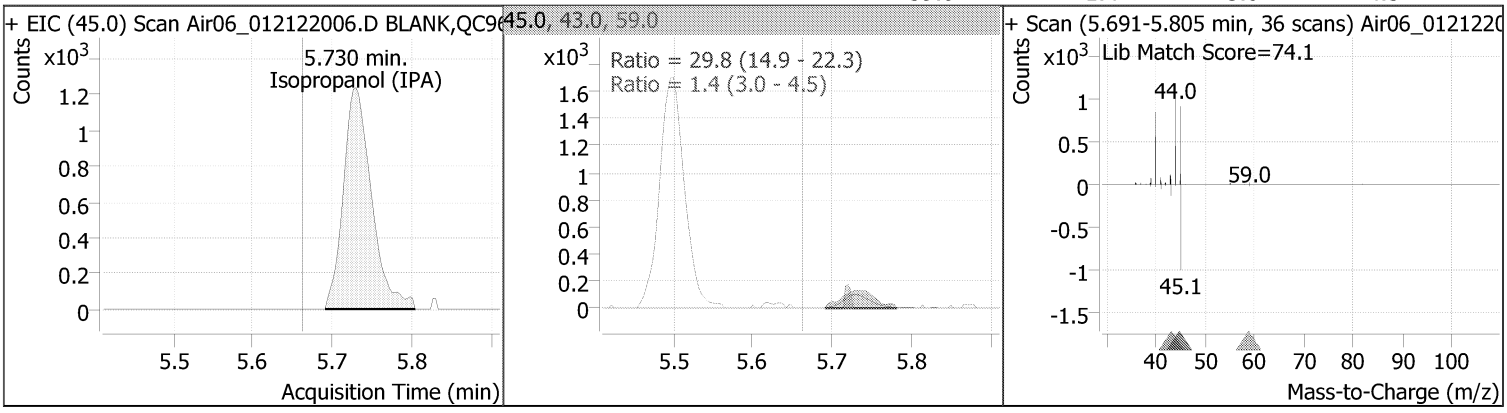
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.0915 | 5.50 | 0.06 | 2339 | 43.0 | 367.4 | 272.1 | 408.2 |
| | | | | | 42.0 | 43.3 | 21.3 | 32.0 |
| | | | | | 39.0 | 29.7 | 10.8 | 16.2 |



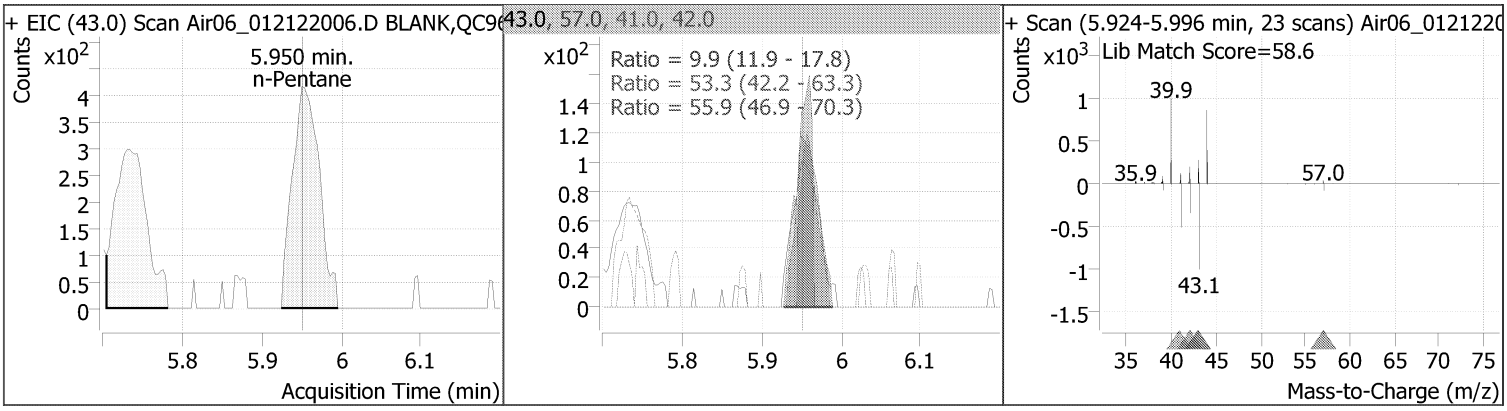

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Trichloromonofluoromethane | N.D. | 5.62 | 103.0 | 64.5 |



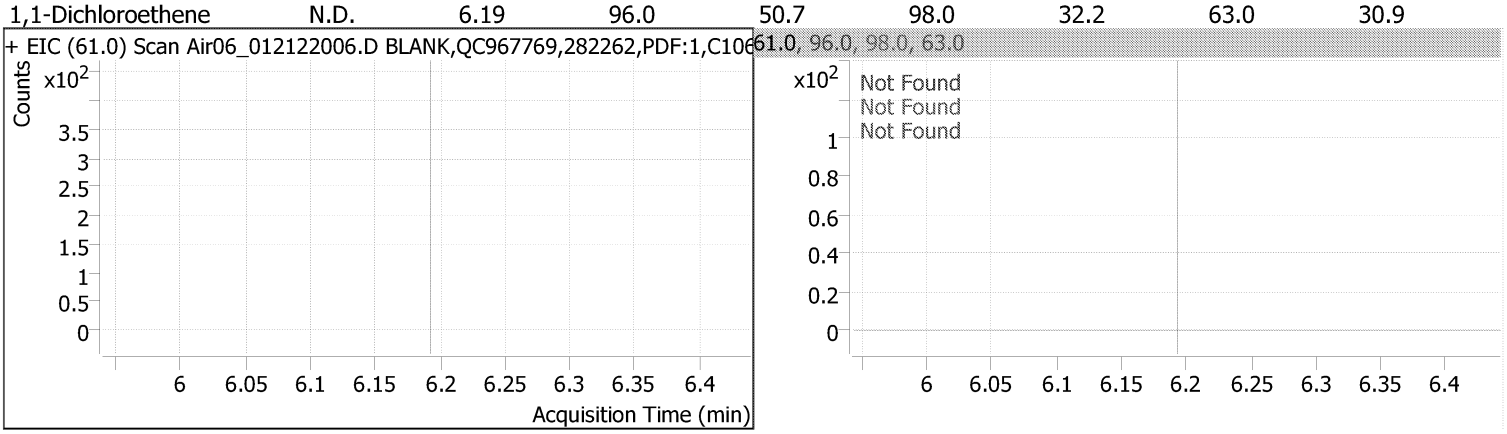

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.0335 | 5.73 | 0.07 | 3068 | 43.0 | 29.8 | 14.9 | 22.3 |
| | | | | | 59.0 | 1.4 | 3.0 | 4.5 |



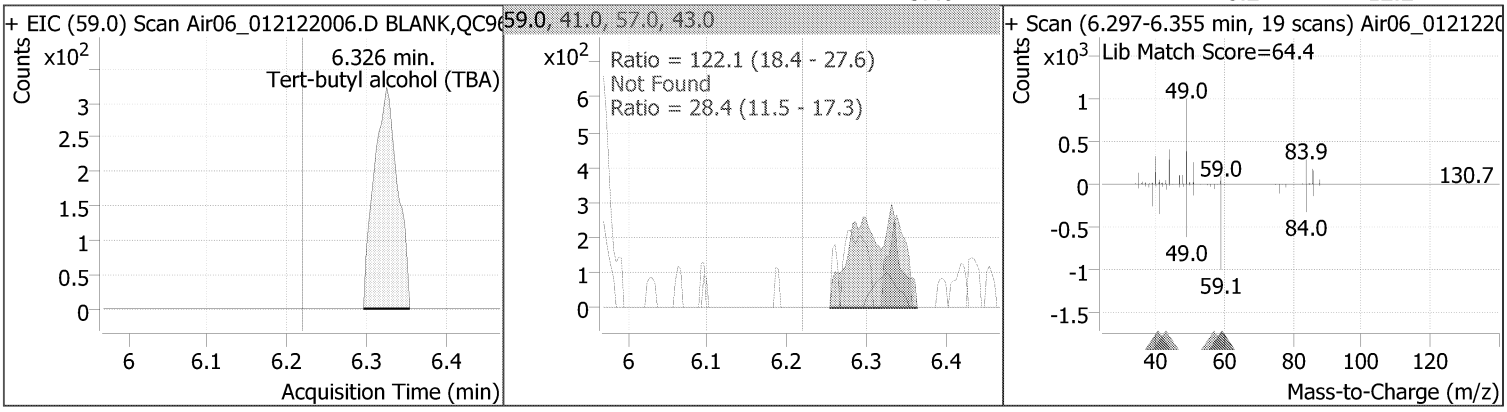
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.0097 | 5.95 | 0.00 | 993 | 42.0 | 55.9 | 46.9 | 70.3 |
| | | | | | 41.0 | 53.3 | 42.2 | 63.3 |
| | | | | | 57.0 | 9.9 | 11.9 | 17.8 |




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | N.D. | 6.19 | 96.0 | 50.7 | 98.0 | 32.2 | 63.0 | 30.9 |

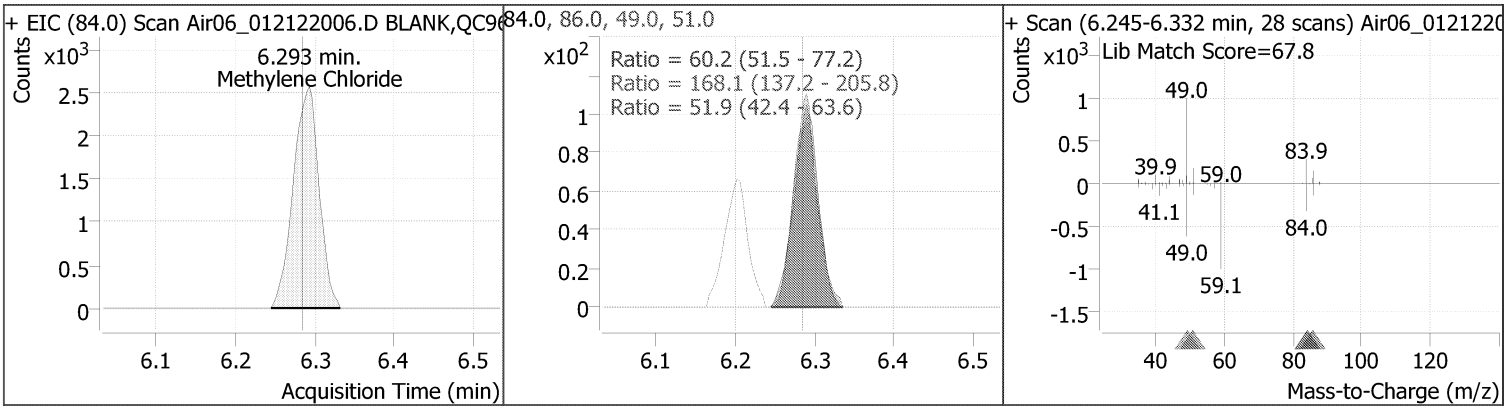



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.0063 | 6.33 | 0.11 | 662 | 41.0 | 122.1 | 18.4 | 27.6 |
| | | | | | 43.0 | 28.4 | 11.5 | 17.3 |
| | | | | | 57.0 | | 8.2 | 12.2 |

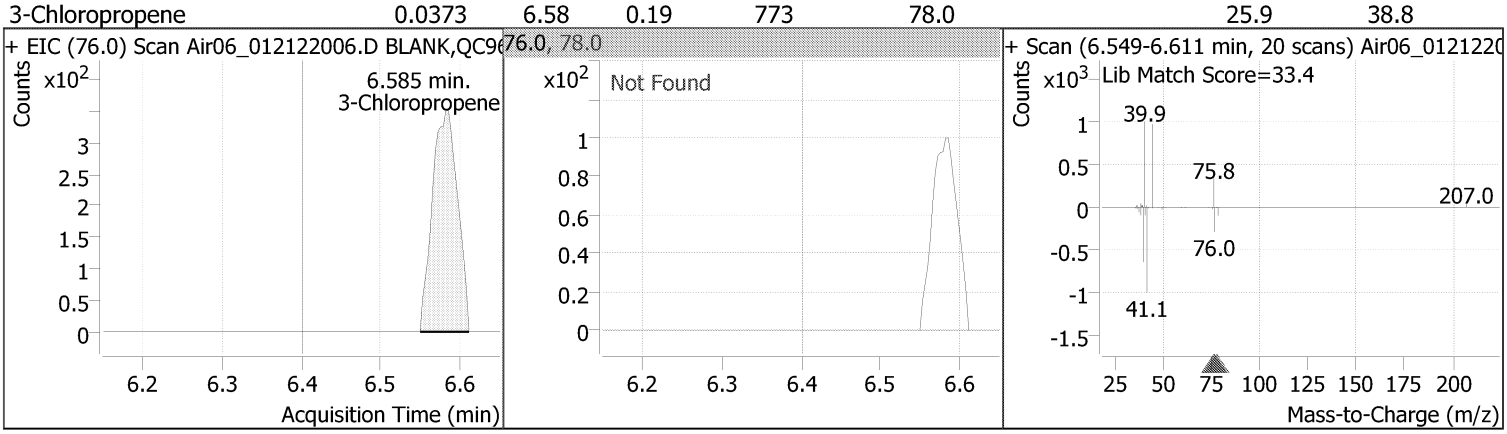


# Quantitation Results Report (Not Reviewed)

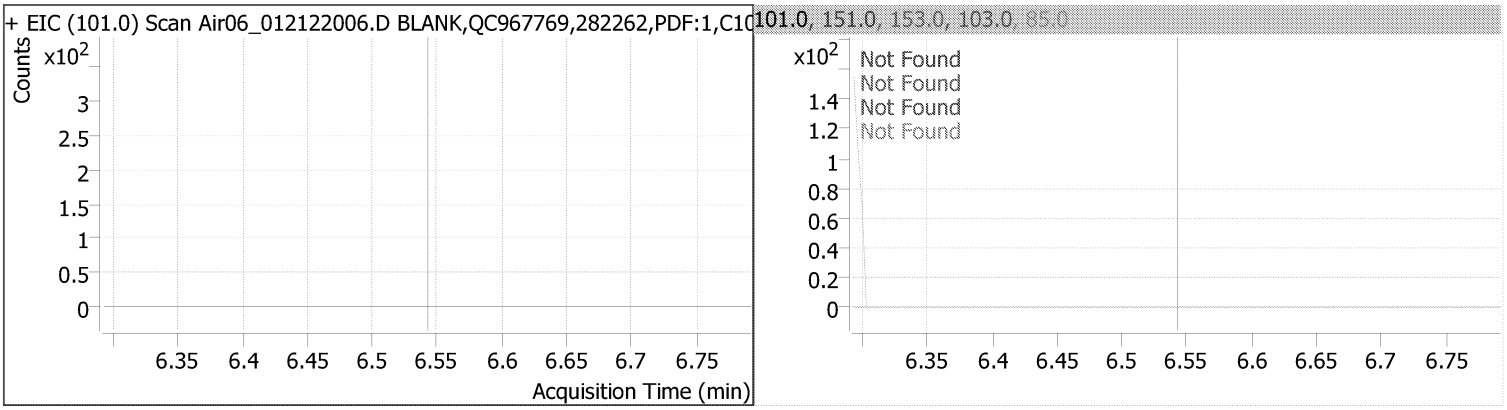
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1285 | 6.29 | 0.01 | 5783 | 49.0 | 168.1 | 137.2 | 205.8 |
| | | | | | 86.0 | 60.2 | 51.5 | 77.2 |
| | | | | | 51.0 | 51.9 | 42.4 | 63.6 |



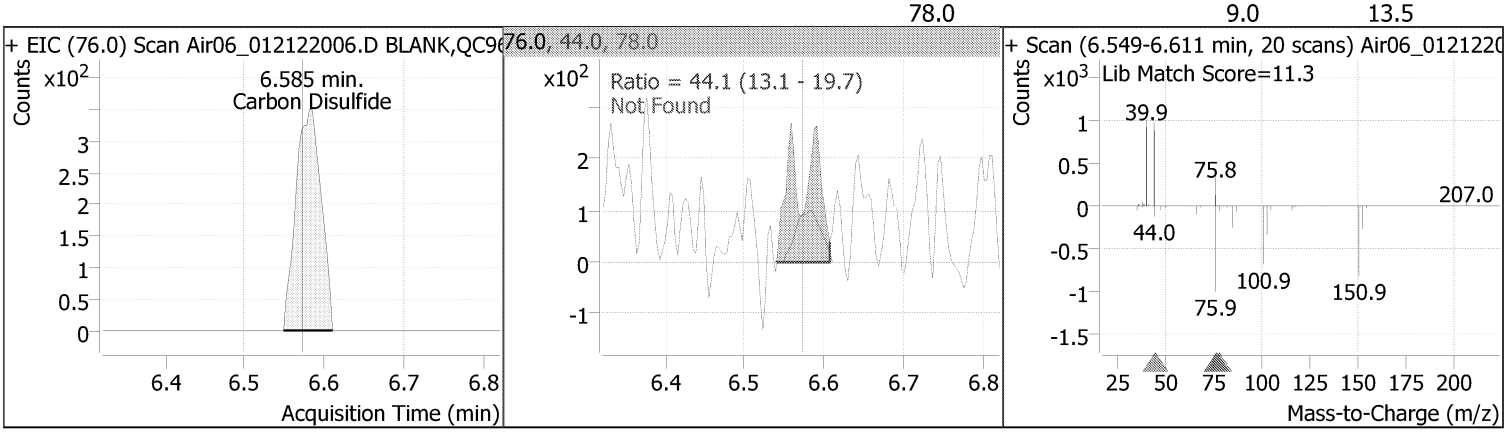

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 0.0373 | 6.58 | 0.19 | 773 | 78.0 | | 25.9 | 38.8 |



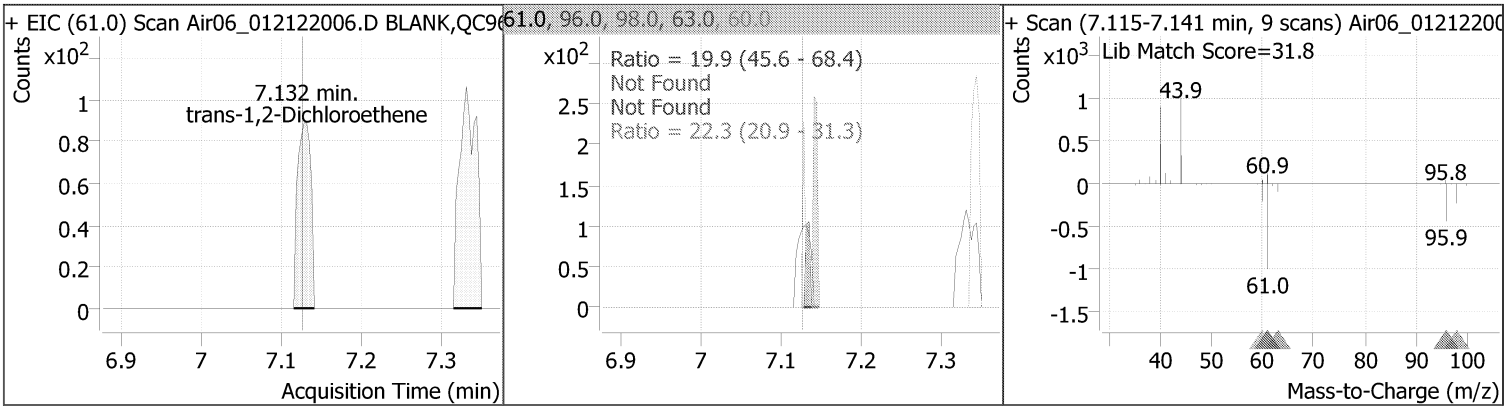

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | N.D. | 6.54 | 151.0 | 85.0 | 103.0 | 64.3 | 153.0 | 54.9 |



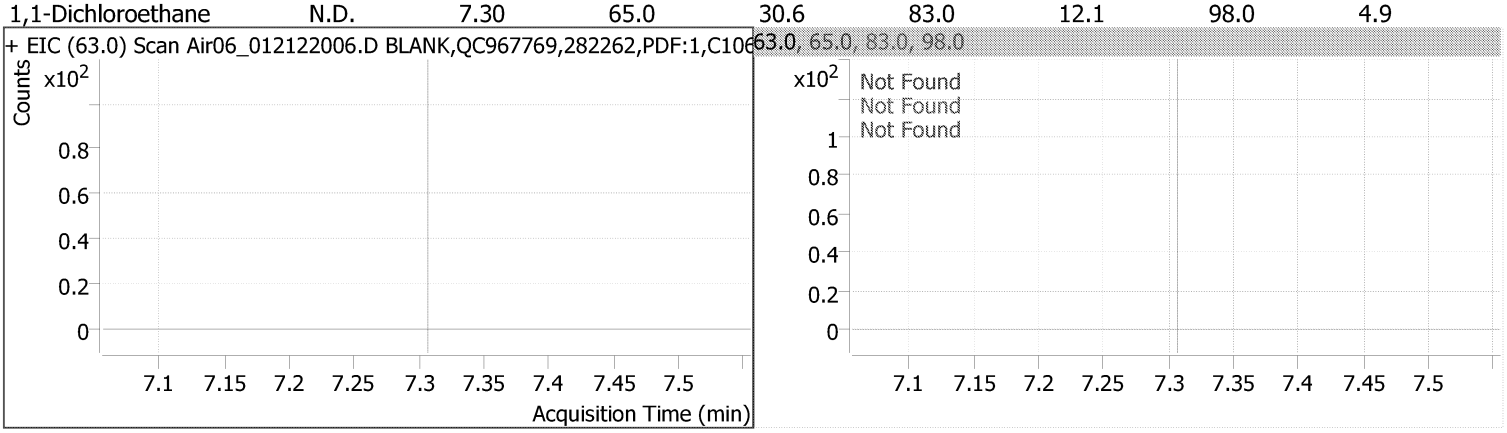
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.0059 | 6.58 | 0.02 | 773 | 44.0 | 44.1 | 13.1 | 19.7 |
| | | | | | 78.0 | | 9.0 | 13.5 |



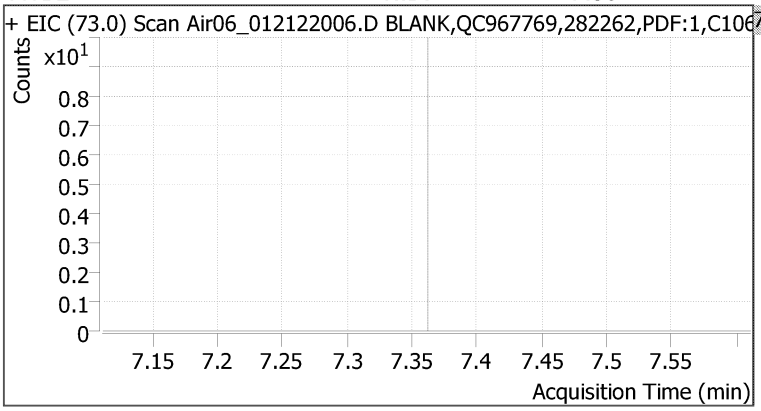

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.0013 | 7.13 | 0.01 | 104 | 96.0 | 19.9 | 45.6 | 68.4 |
| | | | | | 98.0 | | 29.2 | 43.8 |
| | | | | | 63.0 | | 24.9 | 37.3 |
| | | | | | 60.0 | 22.3 | 20.9 | 31.3 |

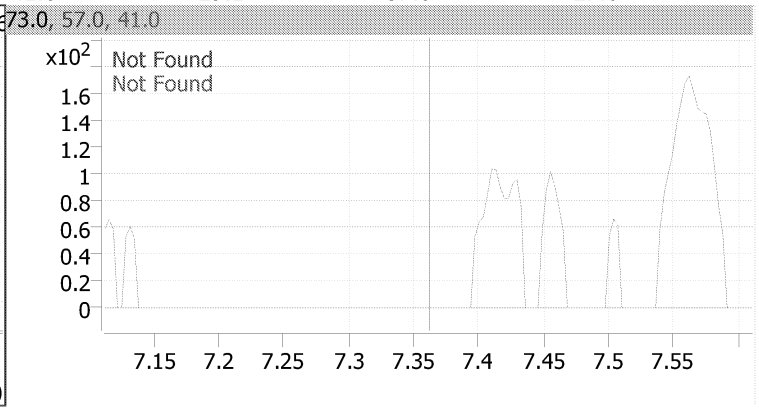



| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | N.D. | 7.30 | 65.0 | 30.6 | 83.0 | 12.1 | 98.0 | 4.9 |

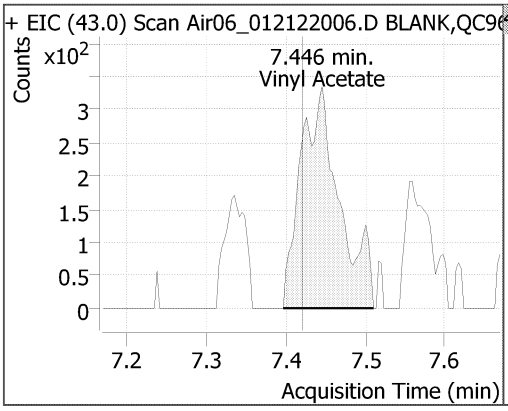


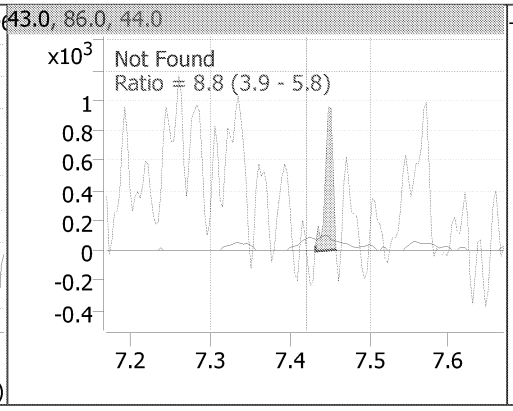
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| MTBE | N.D. | 7.36 | 41.0 | 29.1 | 57.0 | 27.6 |

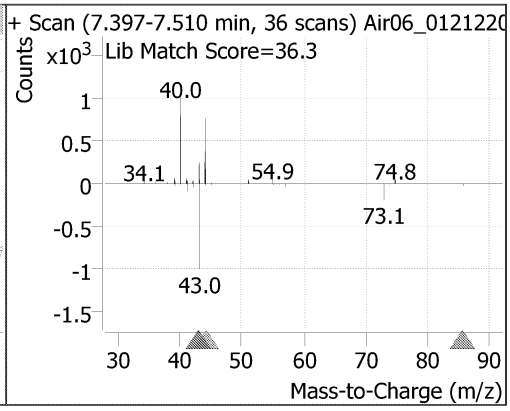


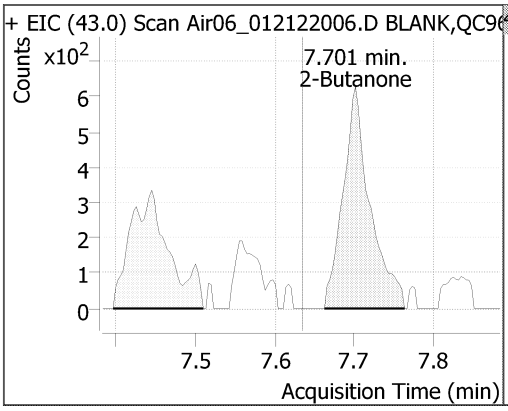

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.0071 | 7.45 | 0.03 | 1137 | 86.0 | | 5.2 | 7.9 |
| | | | | | 44.0 | 8.8 | 3.9 | 5.8 |

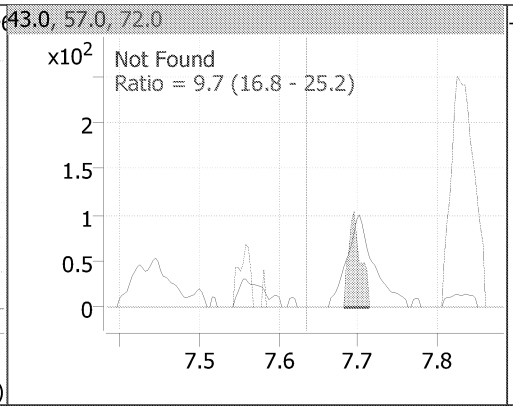


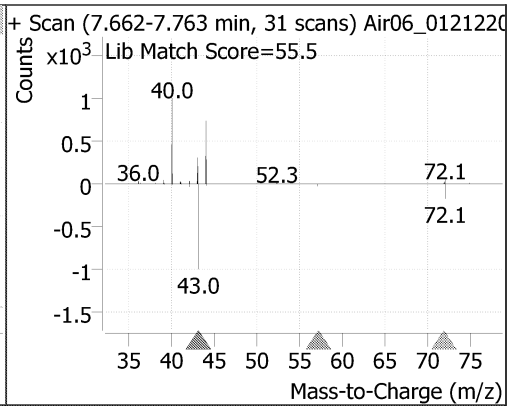



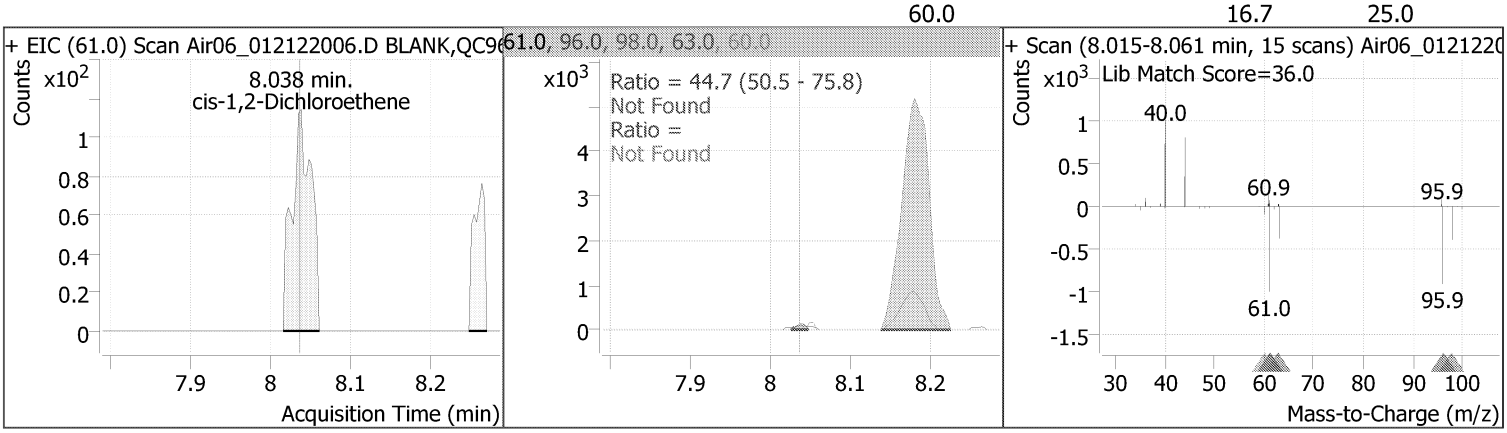

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0120 | 7.70 | 0.07 | 1485 | 72.0 | 9.7 | 16.8 | 25.2 |
| | | | | | 57.0 | | 6.9 | 10.4 |



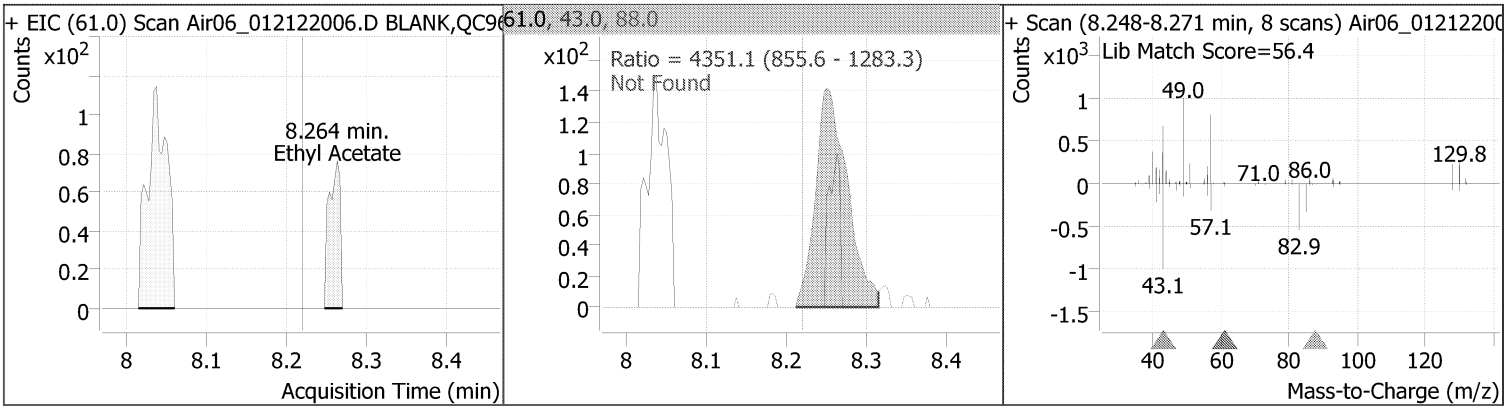



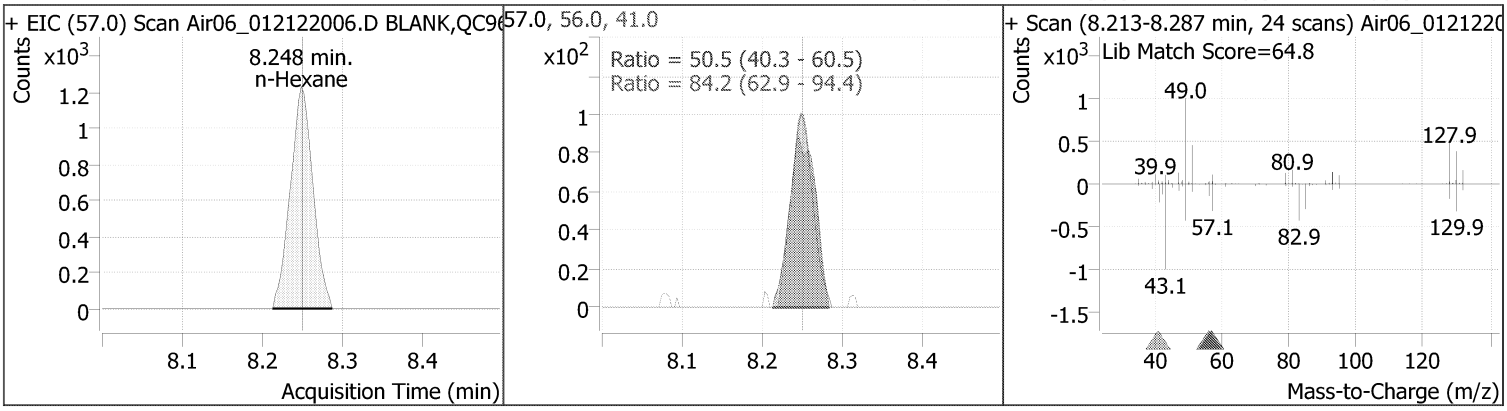
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.0025 | 8.04 | 0.00 | 195 | 96.0 | 44.7 | 50.5 | 75.8 |
| | | | | | 98.0 | | 32.0 | 48.0 |
| | | | | | 63.0 | | 25.0 | 37.4 |
| | | | | | 60.0 | | 16.7 | 25.0 |



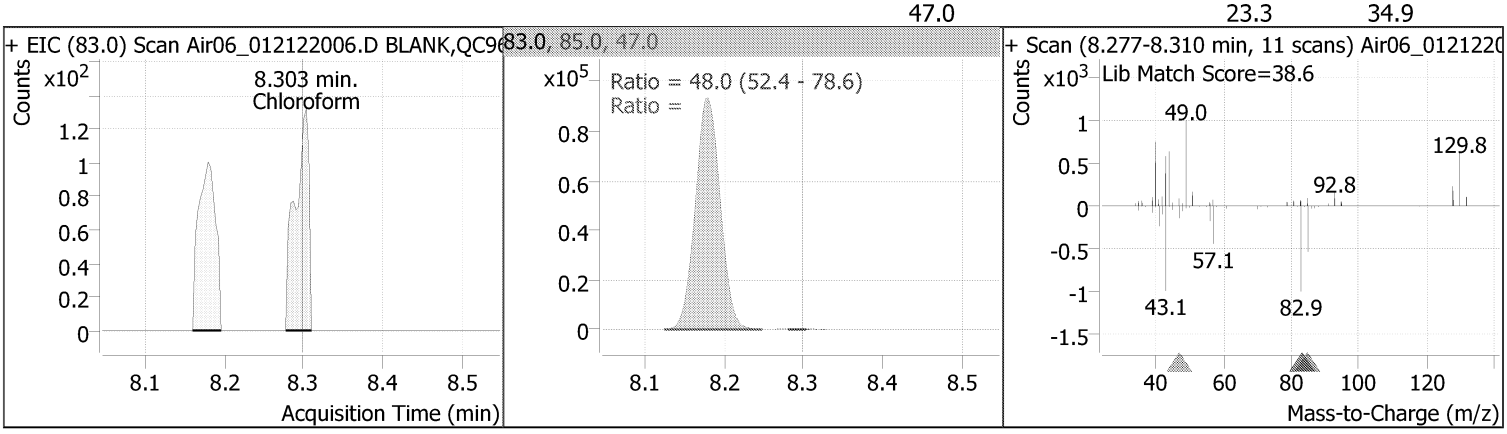

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.0038 | 8.26 | 0.05 | 74 | 43.0 | 4351.1 | 855.6 | 1283.3 |
| | | | | | 88.0 | | 16.9 | 25.3 |



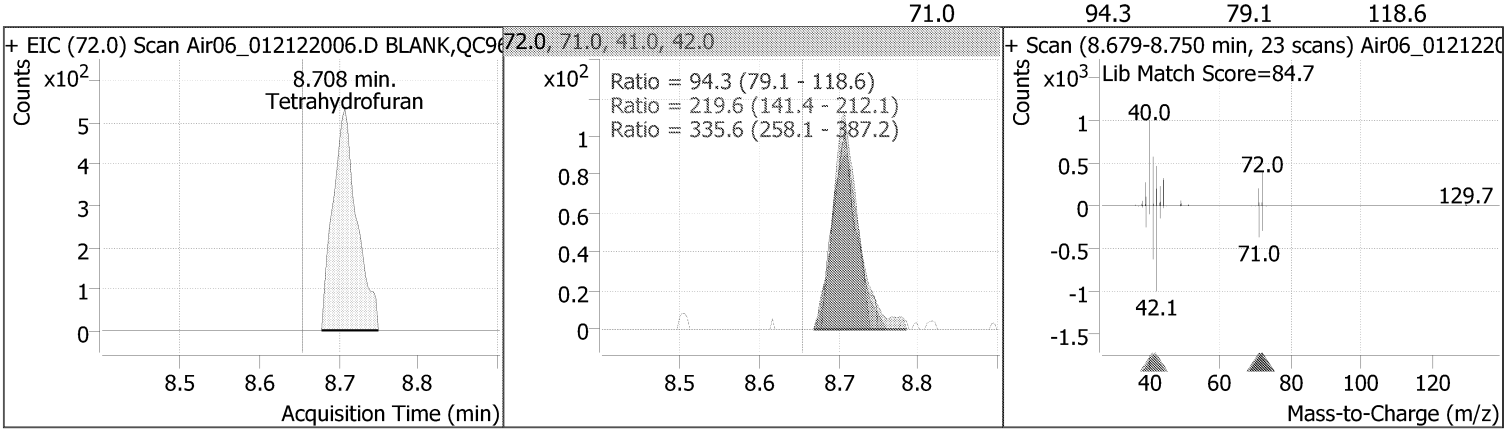

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0273 | 8.25 | 0.00 | 2435 | 41.0 | 84.2 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.5 | 40.3 | 60.5 |



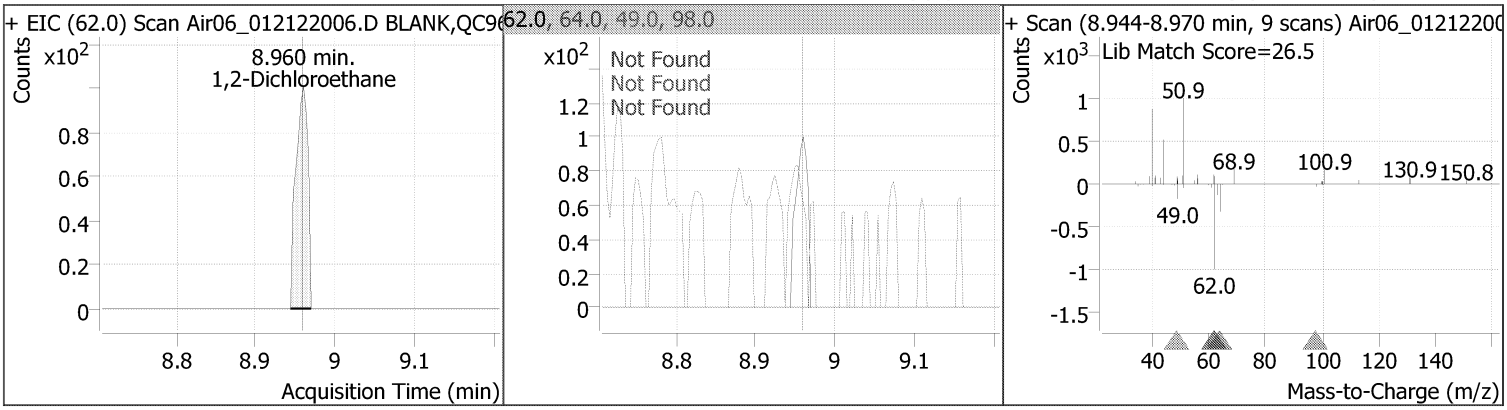
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0016 | 8.30 | 0.01 | 160 | 85.0 | 48.0 | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



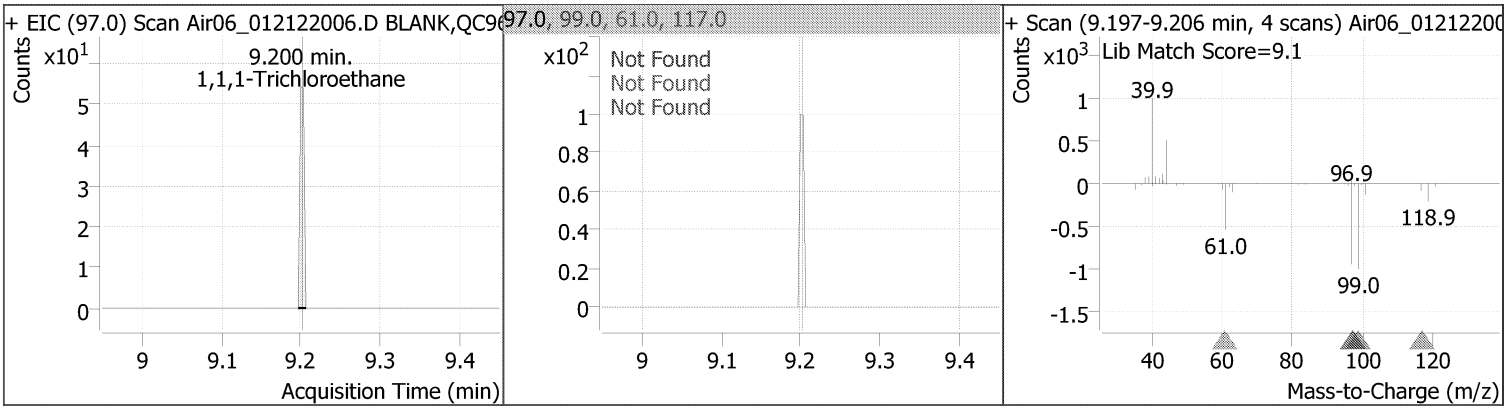

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.0501 | 8.71 | 0.06 | 1112 | 42.0 | 335.6 | 258.1 | 387.2 |
| | | | | | 41.0 | 219.6 | 141.4 | 212.1 |
| | | | | | 71.0 | 94.3 | 79.1 | 118.6 |



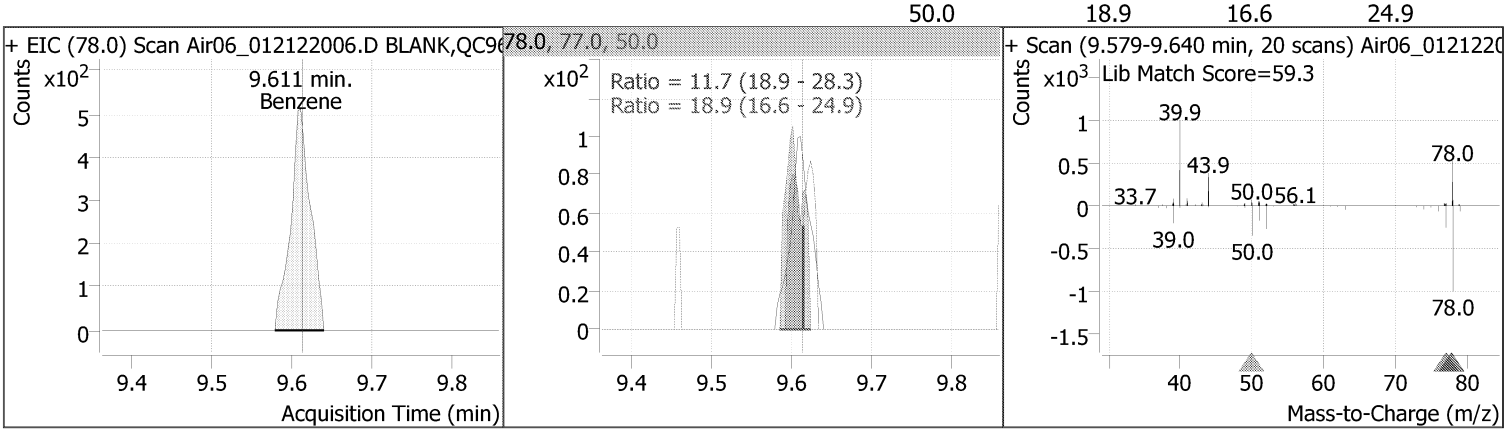

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0014 | 8.96 | 0.01 | 106 | 49.0 | | 25.9 | 38.8 |
| | | | | | 64.0 | | 25.3 | 37.9 |
| | | | | | 98.0 | | 5.8 | 8.7 |



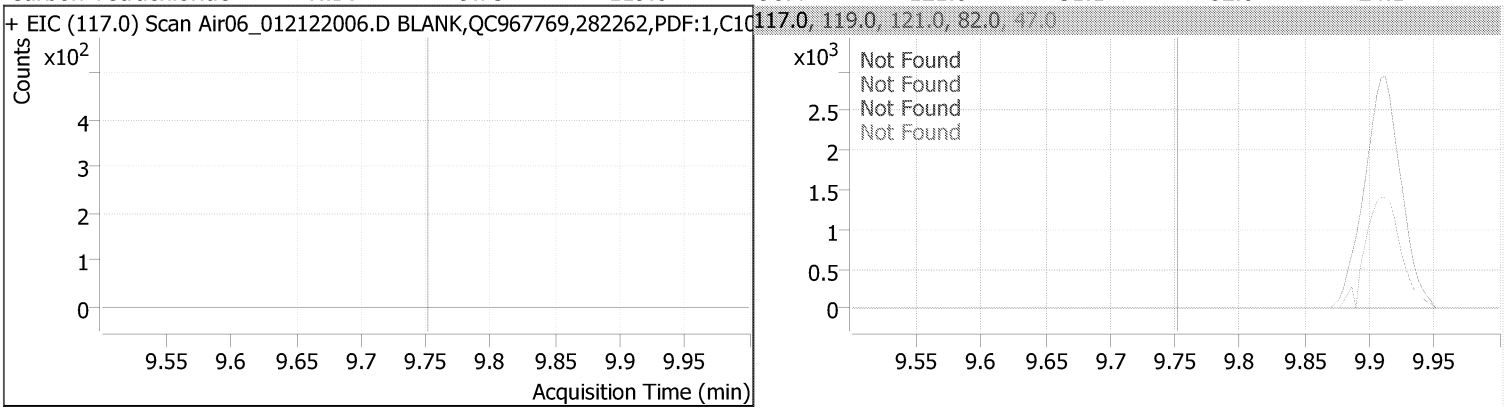
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.0002 | 9.20 | 0.00 | 21 | 99.0 | | 51.4 | 77.0 |
| | | | | | 61.0 | | 38.6 | 57.9 |
| | | | | | 117.0 | | 10.3 | 15.4 |



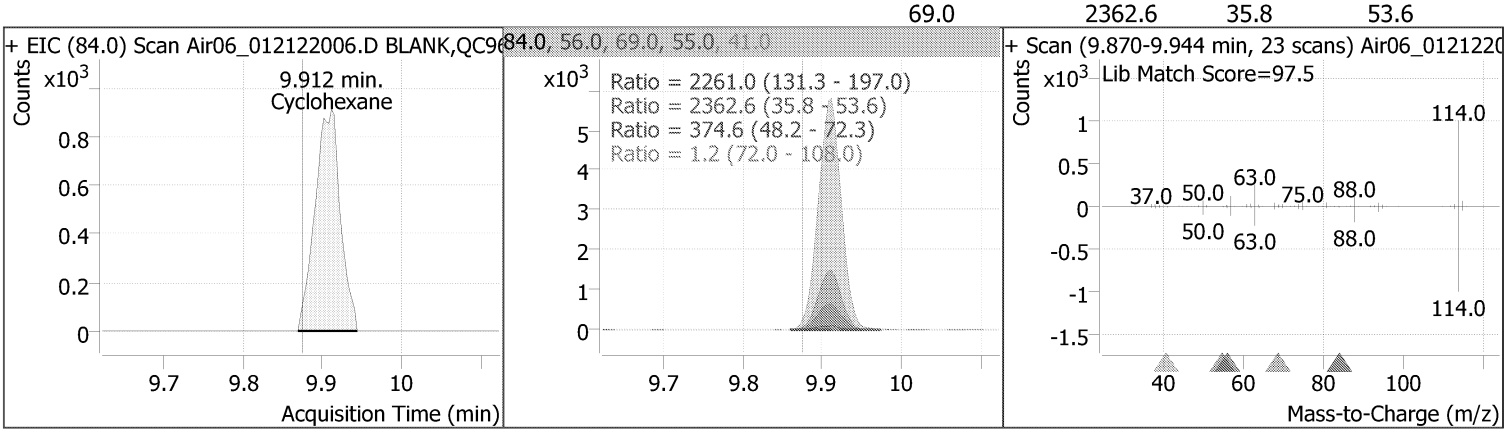

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0062 | 9.61 | 0.00 | 892 | 77.0 | 11.7 | 18.9 | 28.3 |
| | | | | | 50.0 | 18.9 | 16.6 | 24.9 |



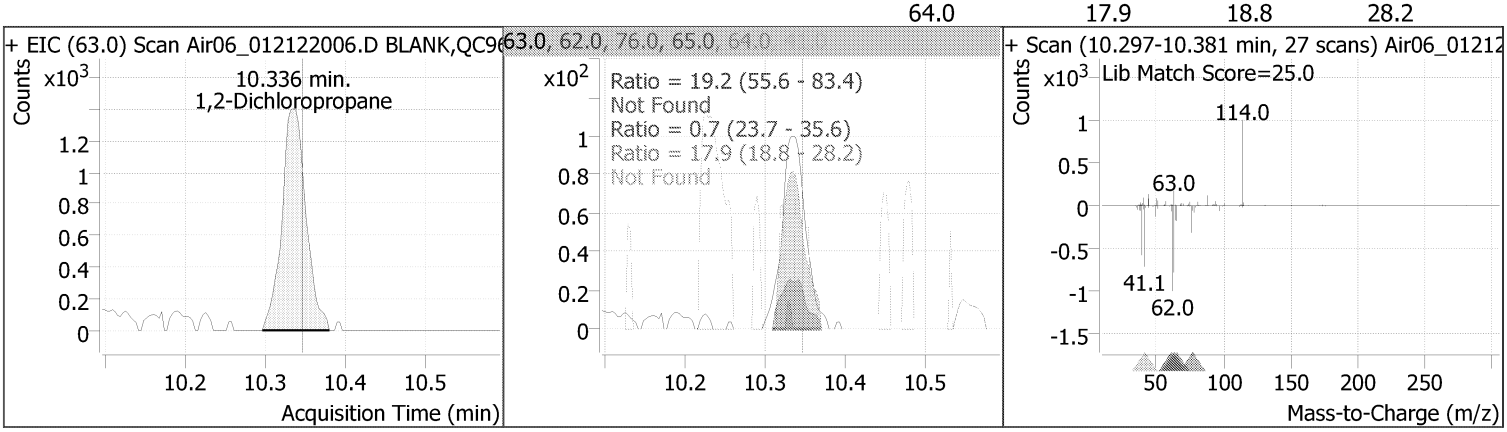

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | N.D. | 9.75 | 119.0 | 96.4 | 121.0 | 31.1 | 82.0 | 24.1 |



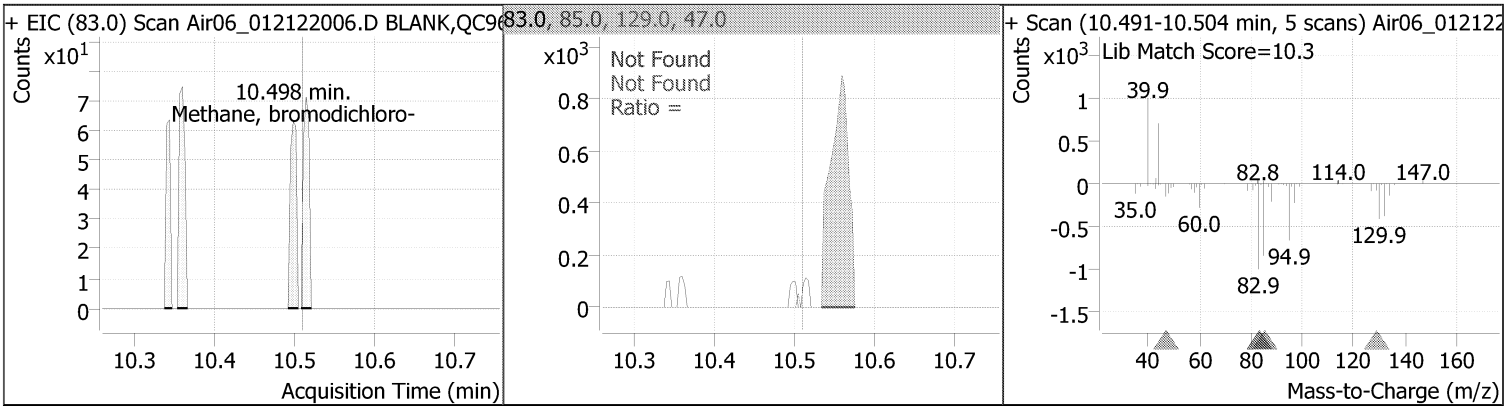
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0333 | 9.91 | 0.04 | 2019 | 56.0 | 2261.0 | 131.3 | 197.0 |
| | | | | | 41.0 | 1.2 | 72.0 | 108.0 |
| | | | | | 55.0 | 374.6 | 48.2 | 72.3 |
| | | | | | 69.0 | 2362.6 | 35.8 | 53.6 |



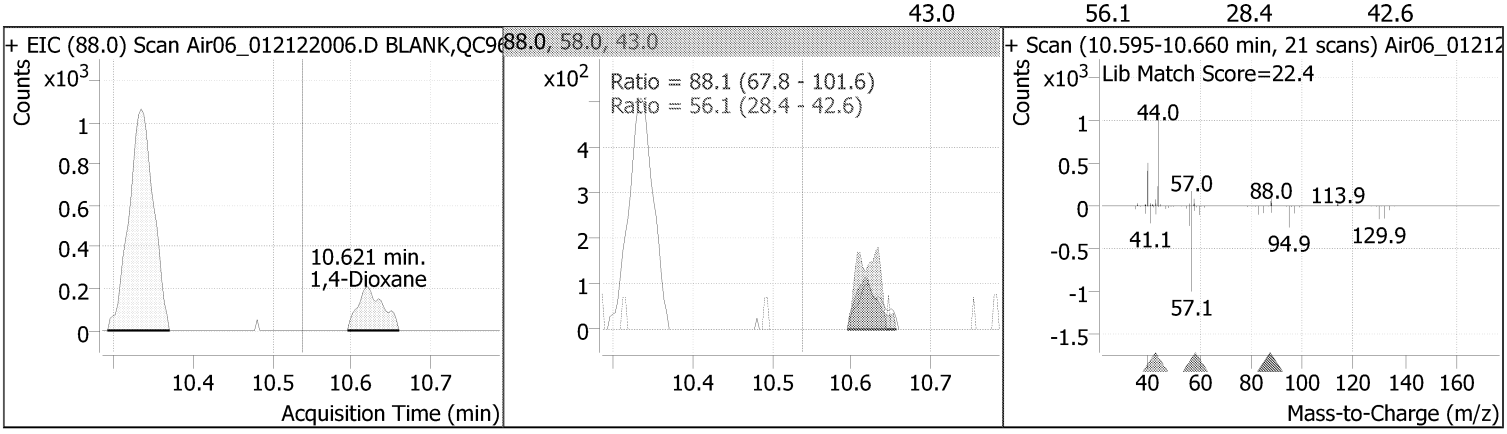

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0434 | 10.34 | -0.01 | 2953 | 62.0 | 19.2 | 55.6 | 83.4 |
| | | | | | 41.0 | | 46.5 | 69.7 |
| | | | | | 76.0 | | 28.4 | 42.6 |
| | | | | | 65.0 | 0.7 | 23.7 | 35.6 |
| | | | | | 64.0 | 17.9 | 18.8 | 28.2 |



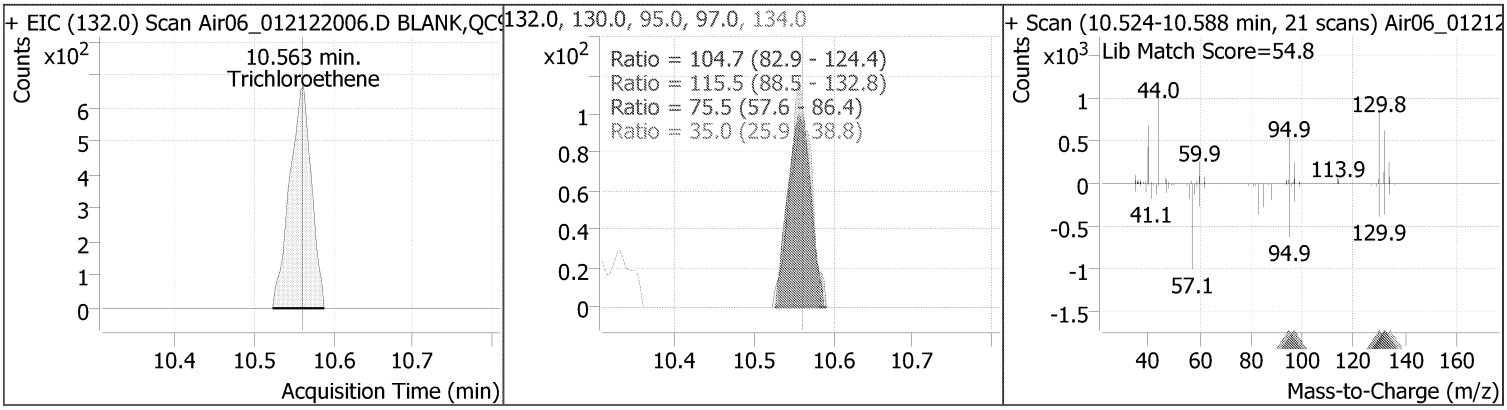

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0003 | 10.50 | -0.01 | 35 | 85.0 | | 51.4 | 77.1 |
| | | | | | 47.0 | | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



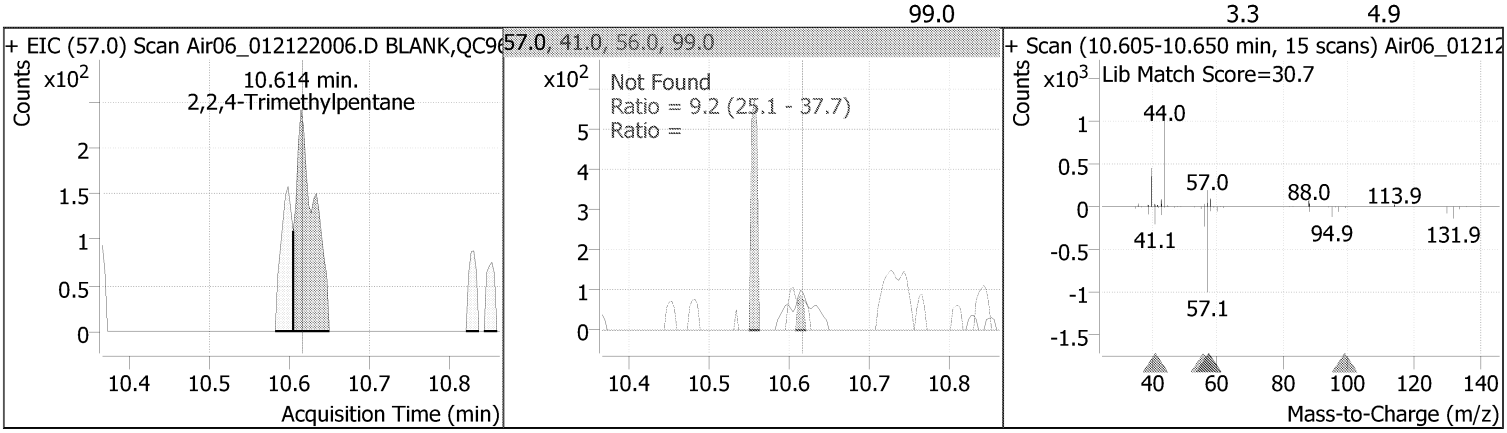
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0130 | 10.62 | 0.09 | 463 | 58.0 | 88.1 | 67.8 | 101.6 |
| | | | | | 43.0 | 56.1 | 28.4 | 42.6 |



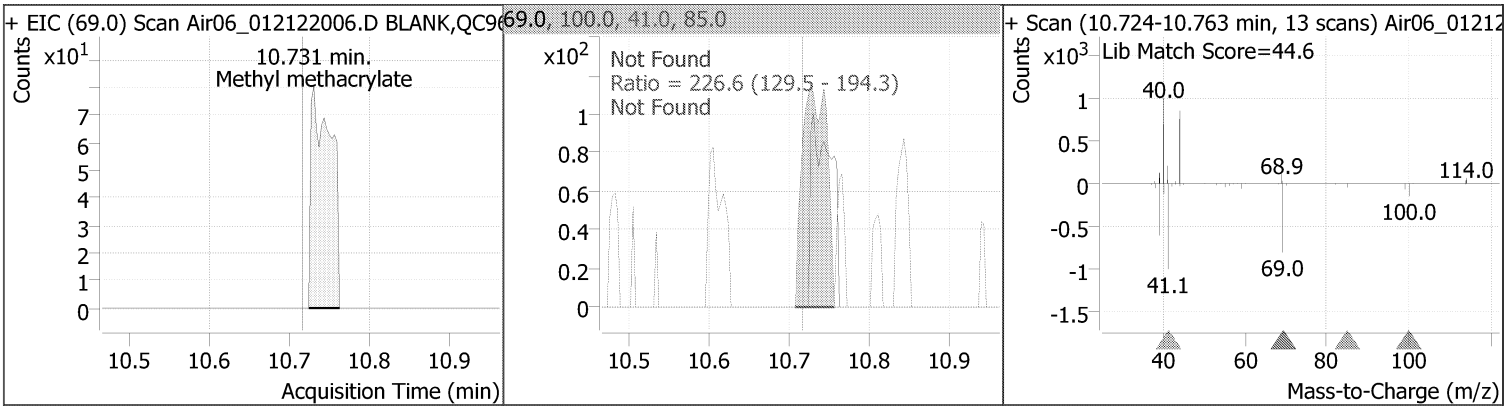

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0182 | 10.56 | 0.01 | 1258 | 95.0 | 115.5 | 88.5 | 132.8 |
| | | | | | 130.0 | 104.7 | 82.9 | 124.4 |
| | | | | | 97.0 | 75.5 | 57.6 | 86.4 |
| | | | | | 134.0 | 35.0 | 25.9 | 38.8 |



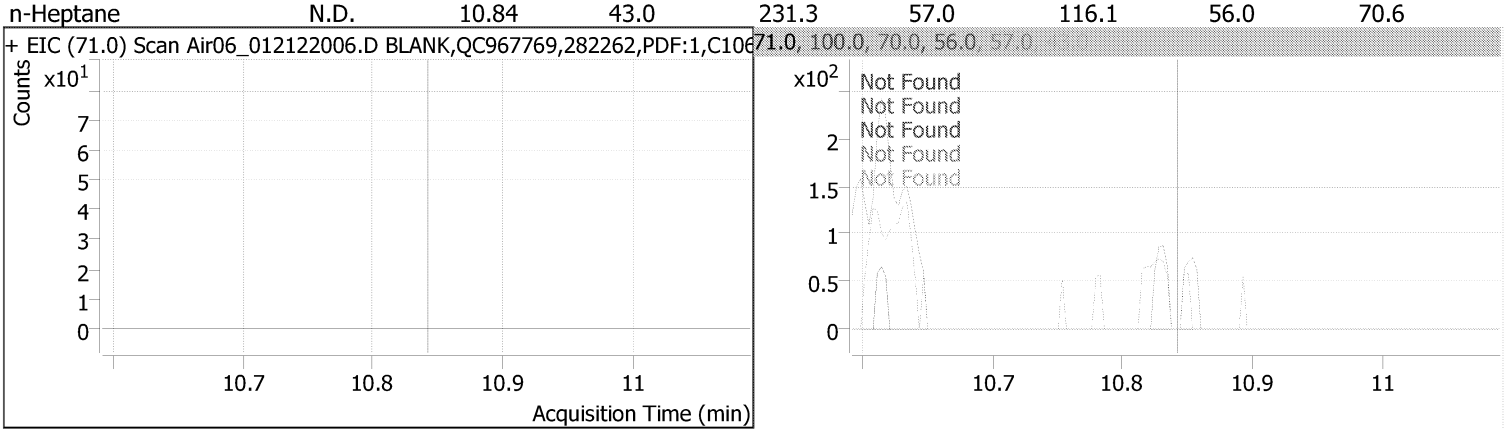

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0012 | 10.61 | 0.00 | 384 | 56.0 | 9.2 | 25.1 | 37.7 |
| | | | | | 41.0 | | 22.2 | 33.3 |
| | | | | | 99.0 | | 3.3 | 4.9 |



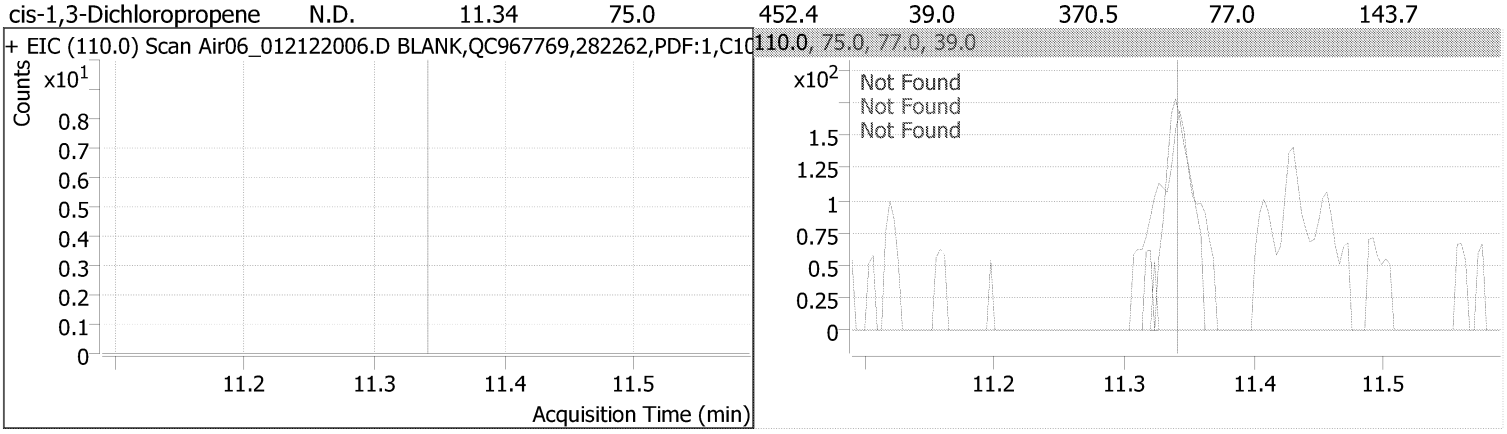
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0024 | 10.73 | 0.02 | 141 | 41.0 | 226.6 | 129.5 | 194.3 |
| | | | | | 100.0 | | 28.8 | 43.2 |
| | | | | | 85.0 | | 7.3 | 10.9 |



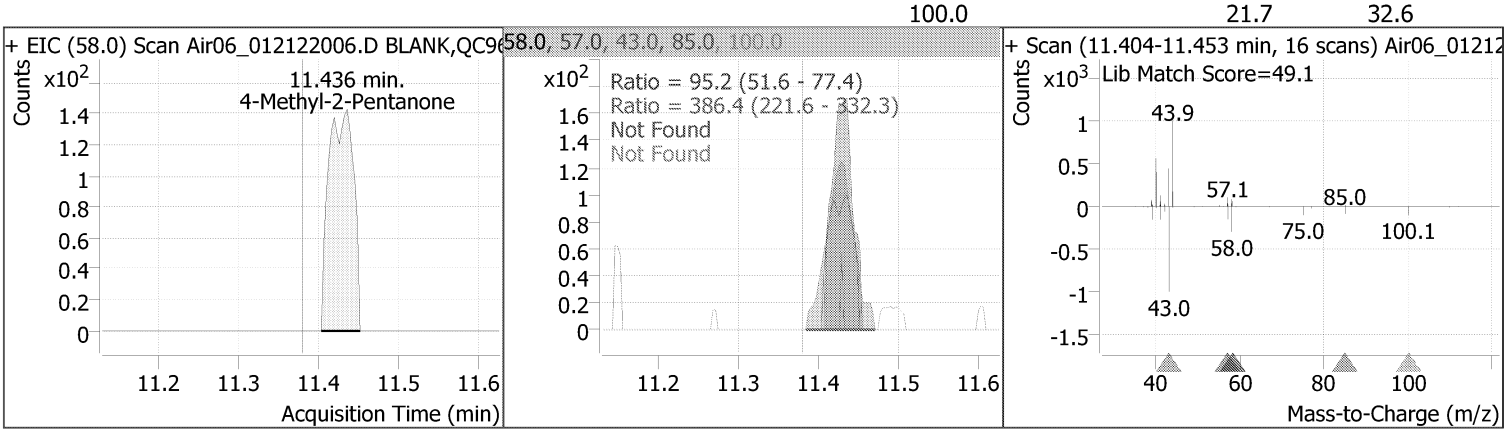

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | N.D. | 10.84 | 43.0 | 231.3 | 57.0 | 116.1 | 56.0 | 70.6 |



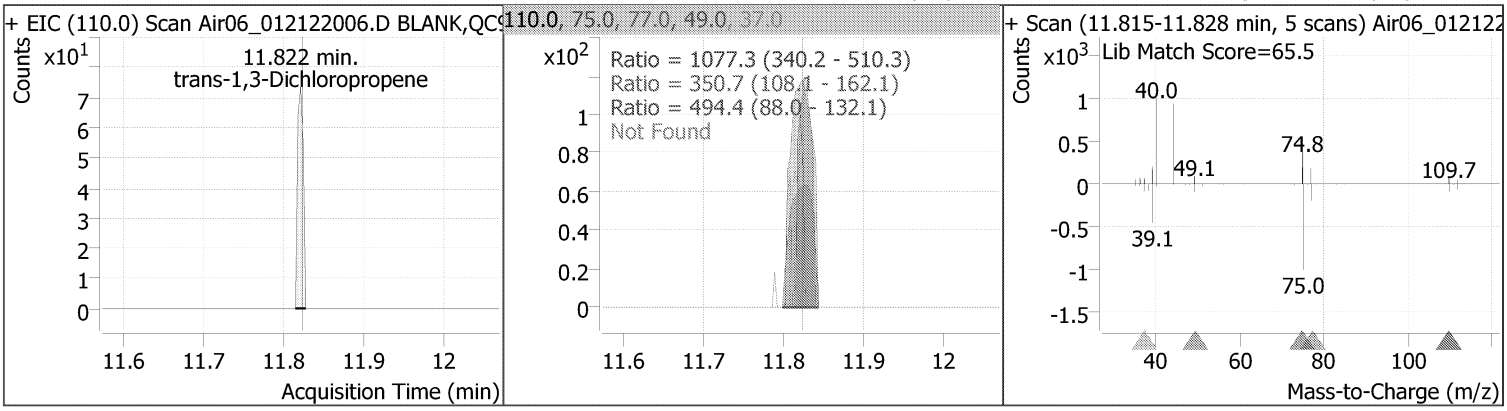

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | N.D. | 11.34 | 75.0 | 452.4 | 39.0 | 370.5 | 77.0 | 143.7 |



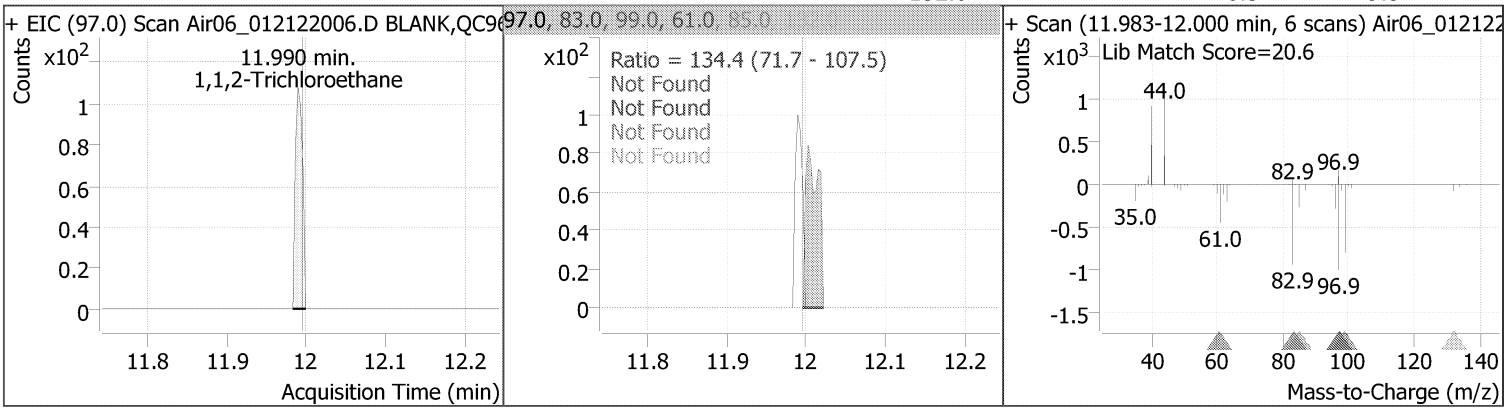
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0052 | 11.44 | 0.06 | 312 | 43.0 | 386.4 | 221.6 | 332.3 |
| | | | | | 57.0 | 95.2 | 51.6 | 77.4 |
| | | | | | 85.0 | | 31.1 | 46.7 |
| | | | | | 100.0 | | 21.7 | 32.6 |



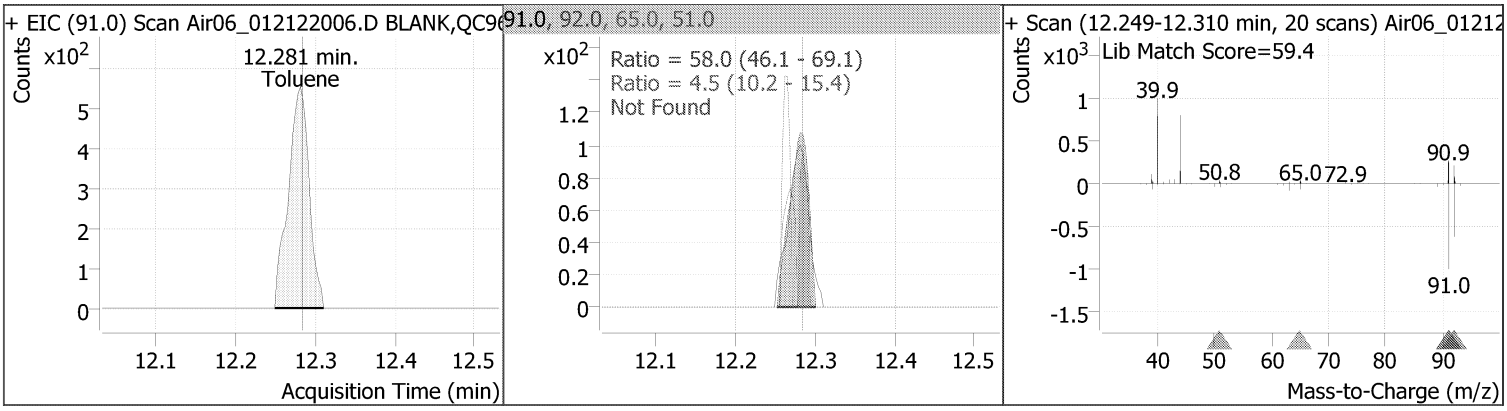

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.0017 | 11.82 | 0.00 | 37 | 75.0 | 1077.3 | 340.2 | 510.3 |
| | | | | | 77.0 | 350.7 | 108.1 | 162.1 |
| | | | | | 49.0 | 494.4 | 88.0 | 132.1 |
| | | | | | 37.0 | | 43.2 | 64.8 |



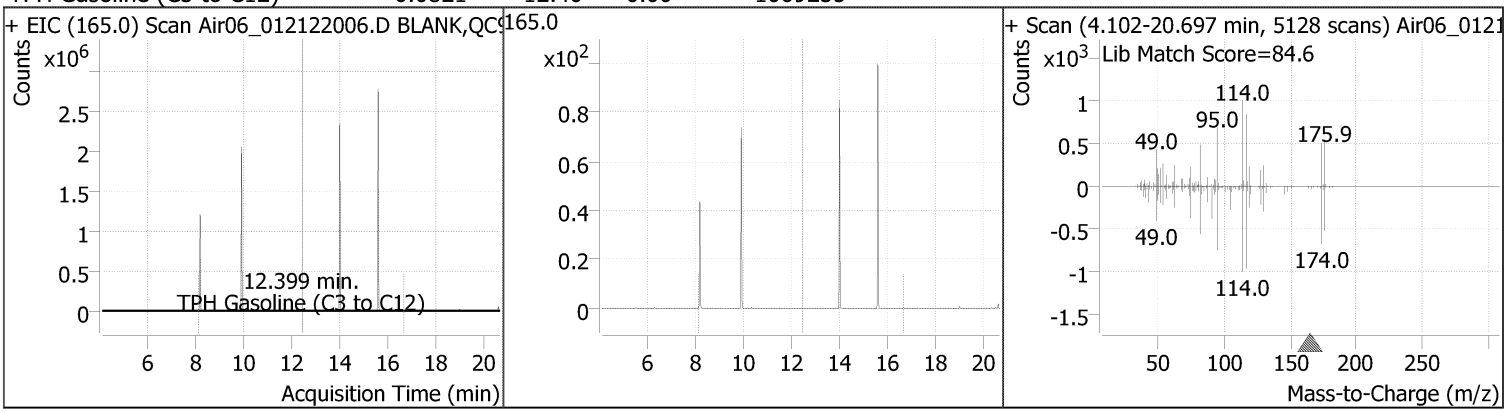

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.0011 | 11.99 | 0.00 | 68 | 83.0 | 134.4 | 71.7 | 107.5 |
| | | | | | 61.0 | | 56.8 | 85.2 |
| | | | | | 99.0 | | 50.1 | 75.2 |
| | | | | | 85.0 | | 46.0 | 69.0 |
| | | | | | 132.0 | | 6.3 | 9.5 |



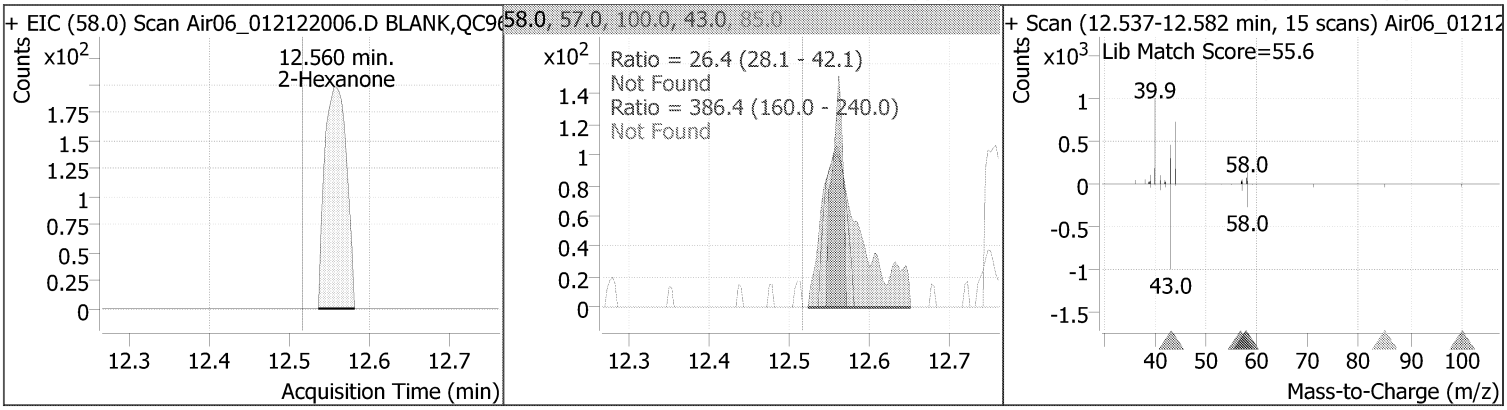
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0051 | 12.28 | 0.00 | 1008 | 92.0 | 58.0 | 46.1 | 69.1 |
| | | | | | 65.0 | 4.5 | 10.2 | 15.4 |
| | | | | | 51.0 | | 7.0 | 10.5 |



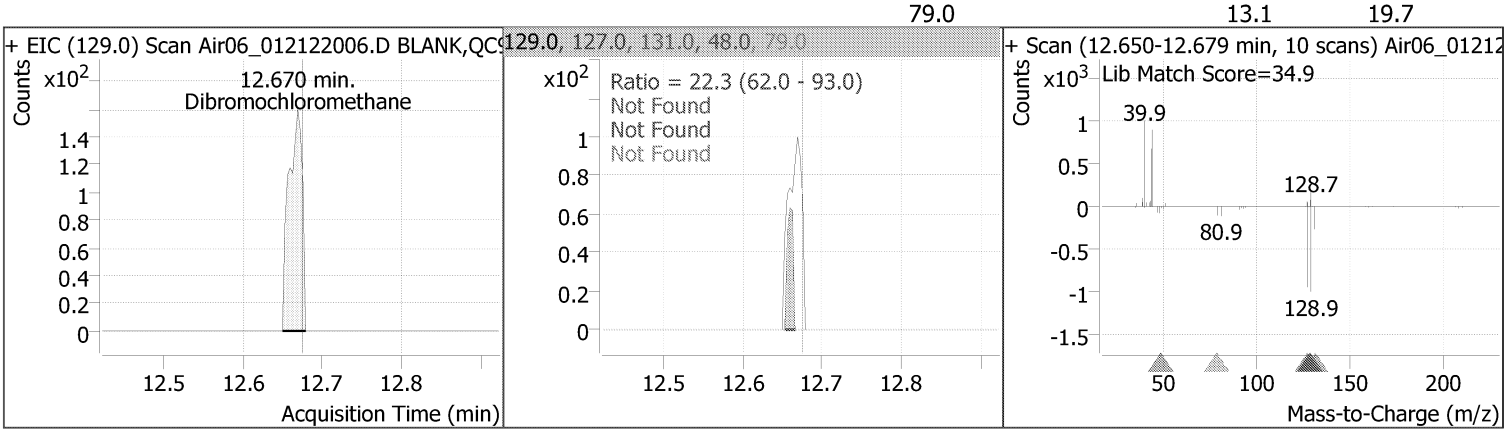

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 0.0821 | 12.40 | 0.00 | 1069235 | | | | |



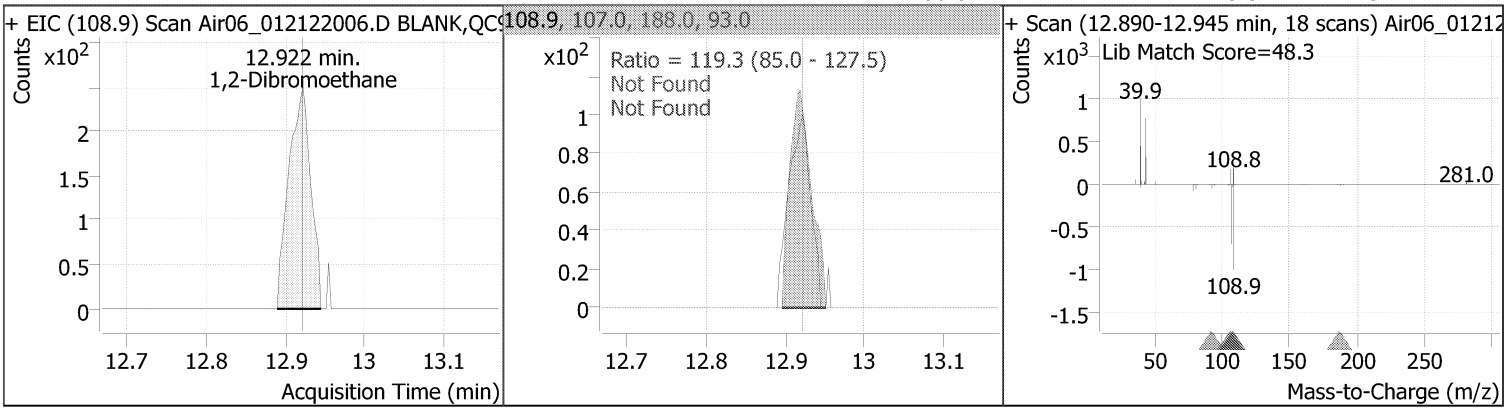

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.0049 | 12.56 | 0.05 | 378 | 43.0 | 386.4 | 160.0 | 240.0 |
| | | | | | 57.0 | 26.4 | 28.1 | 42.1 |
| | | | | | 100.0 | | 11.9 | 17.9 |
| | | | | | 85.0 | | 11.0 | 16.5 |



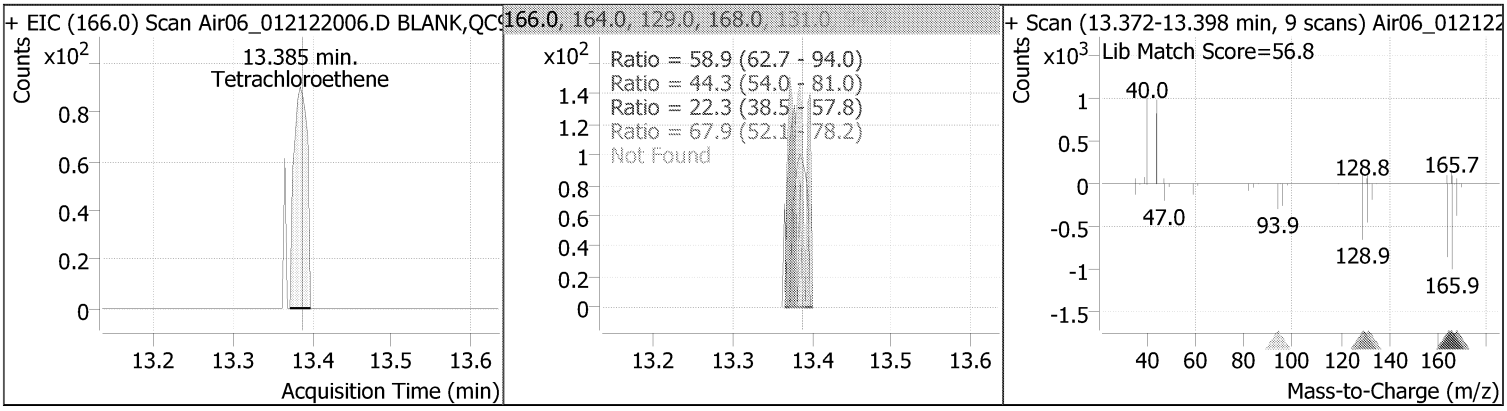
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.0016 | 12.67 | 0.00 | 188 | 127.0 | 22.3 | 62.0 | 93.0 |
| | | | | | 131.0 | | 19.3 | 29.0 |
| | | | | | 48.0 | | 14.0 | 21.0 |
| | | | | | 79.0 | | 13.1 | 19.7 |



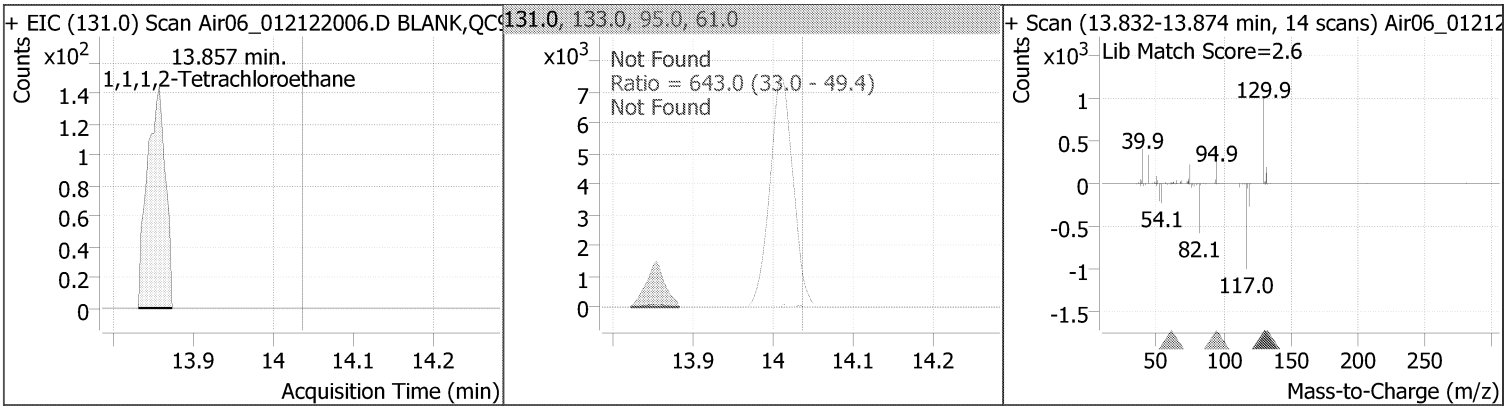

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.0048 | 12.92 | 0.01 | 479 | 107.0 | 119.3 | 85.0 | 127.5 |
| | | | | | 93.0 | | 5.4 | 8.1 |
| | | | | | 188.0 | | 3.5 | 5.2 |



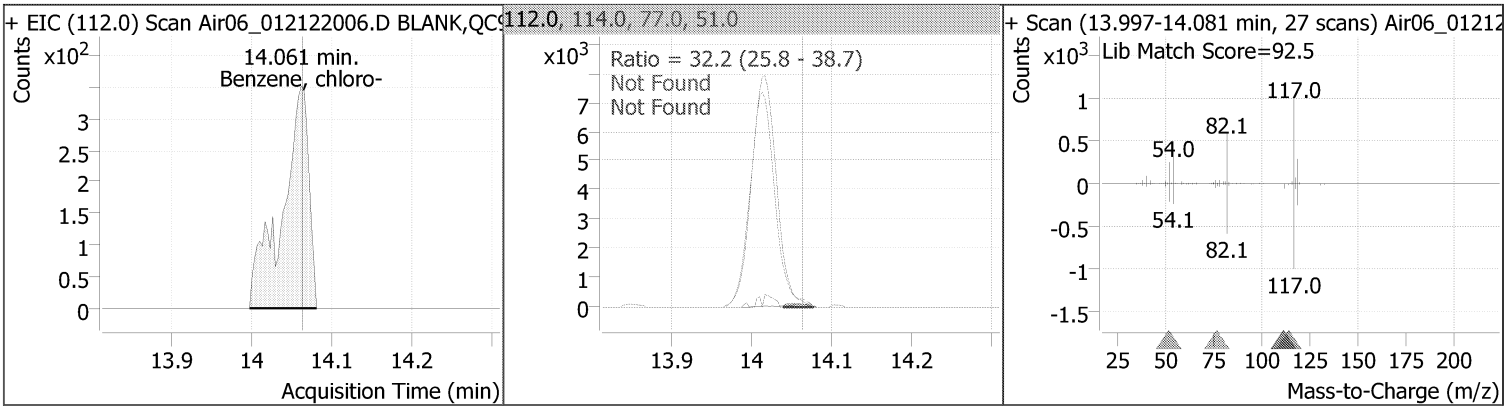

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0010 | 13.38 | 0.00 | 105 | 164.0 | 58.9 | 62.7 | 94.0 |
| | | | | | 129.0 | 44.3 | 54.0 | 81.0 |
| | | | | | 131.0 | 67.9 | 52.1 | 78.2 |
| | | | | | 168.0 | 22.3 | 38.5 | 57.8 |
| | | | | | 94.0 | | 33.5 | 50.3 |



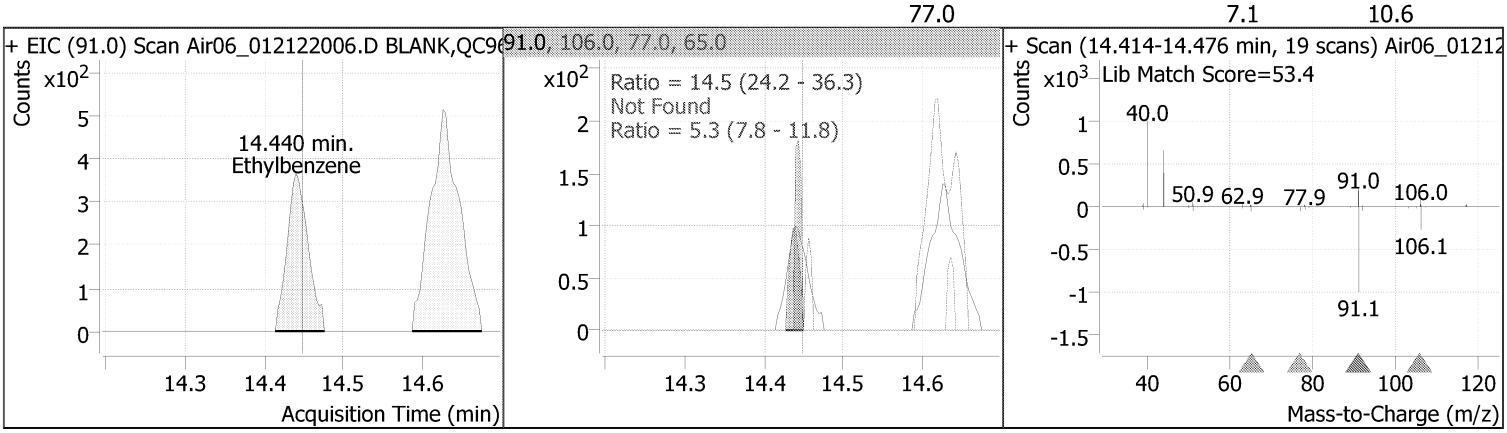
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0032 | 13.86 | -0.18 | 226 | 133.0 | | 76.9 | 115.3 |
| | | | | | 95.0 | 643.0 | 33.0 | 49.4 |
| | | | | | 61.0 | | 25.4 | 38.1 |



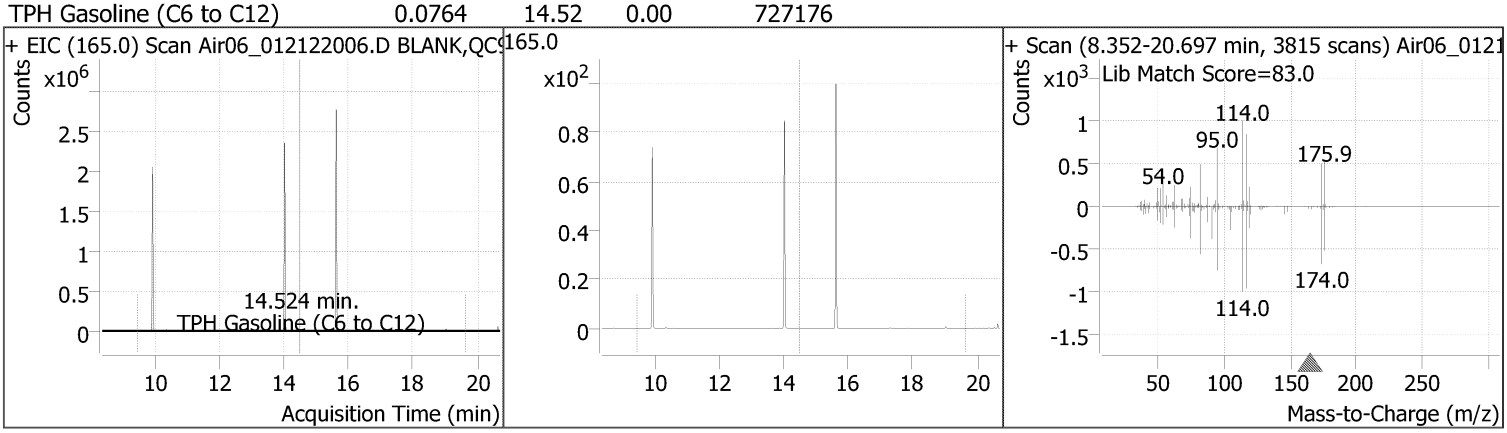

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0059 | 14.06 | 0.00 | 821 | 77.0 | | 50.5 | 75.7 |
| | | | | | 114.0 | 32.2 | 25.8 | 38.7 |
| | | | | | 51.0 | | 23.4 | 35.1 |



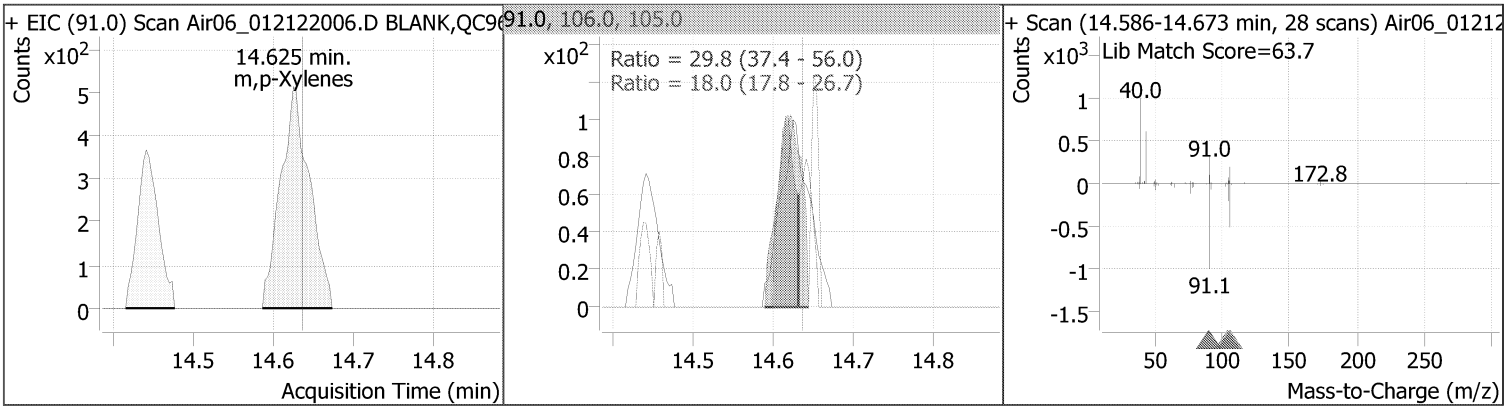

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0030 | 14.44 | -0.01 | 669 | 106.0 | 14.5 | 24.2 | 36.3 |
| | | | | | 65.0 | 5.3 | 7.8 | 11.8 |
| | | | | | 77.0 | | 7.1 | 10.6 |



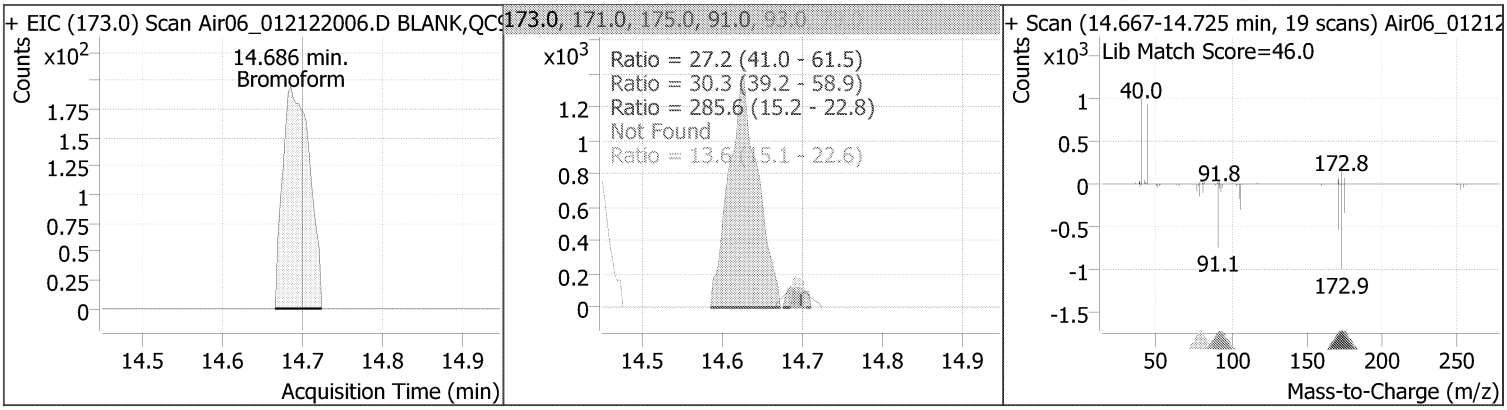
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 0.0764 | 14.52 | 0.00 | 727176 | | | | |



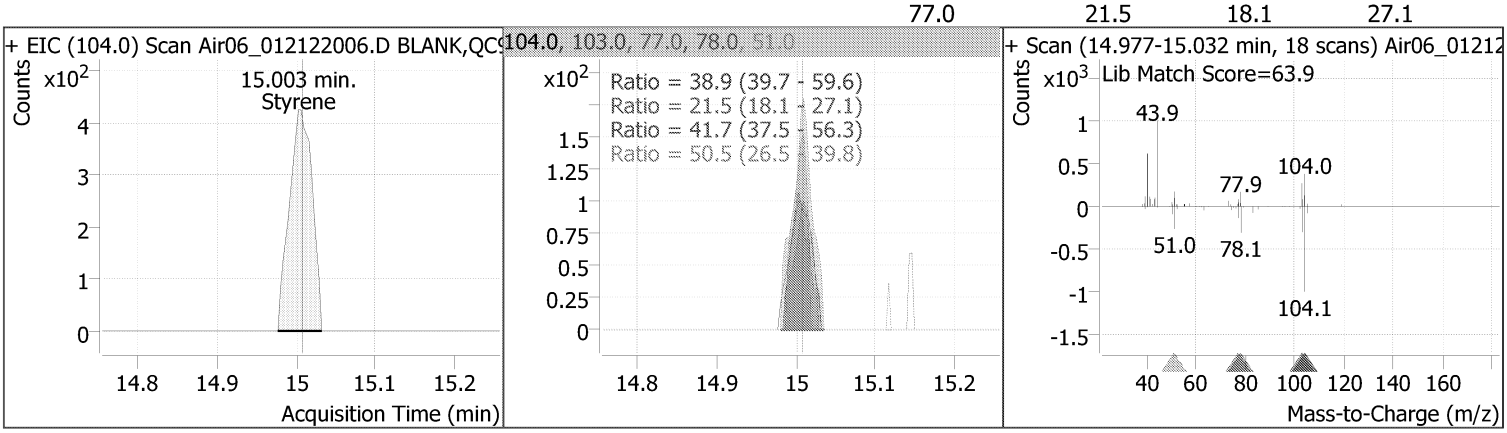

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.0073 | 14.62 | -0.01 | 1294 | 106.0 | 29.8 | 37.4 | 56.0 |
| | | | | | 105.0 | 18.0 | 17.8 | 26.7 |



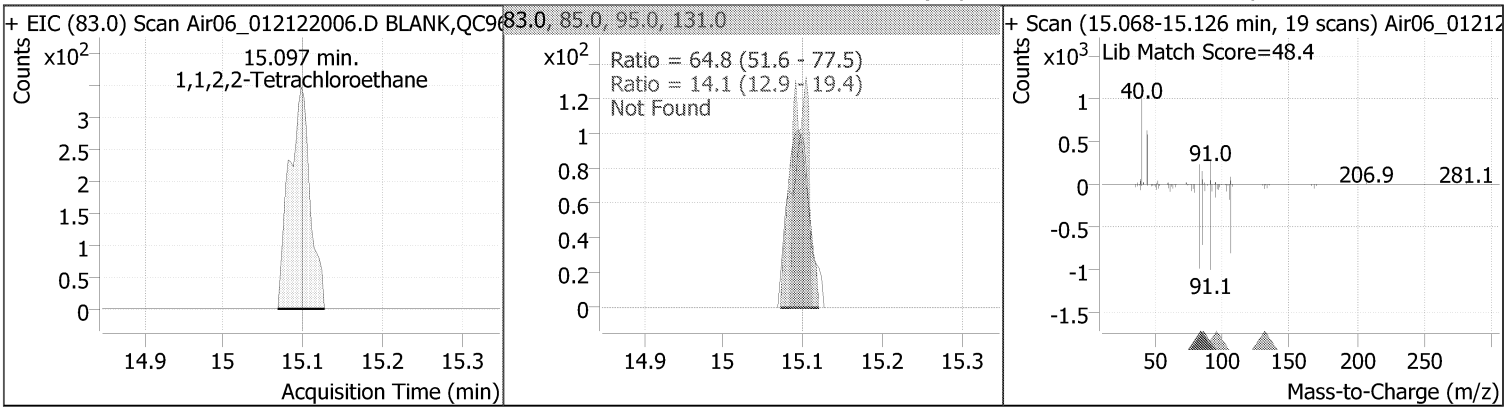

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.0037 | 14.69 | -0.01 | 453 | 171.0 | 27.2 | 41.0 | 61.5 |
| | | | | | 175.0 | 30.3 | 39.2 | 58.9 |
| | | | | | 93.0 | | 15.4 | 23.1 |
| | | | | | 91.0 | 285.6 | 15.2 | 22.8 |
| | | | | | 79.0 | 13.6 | 15.1 | 22.6 |



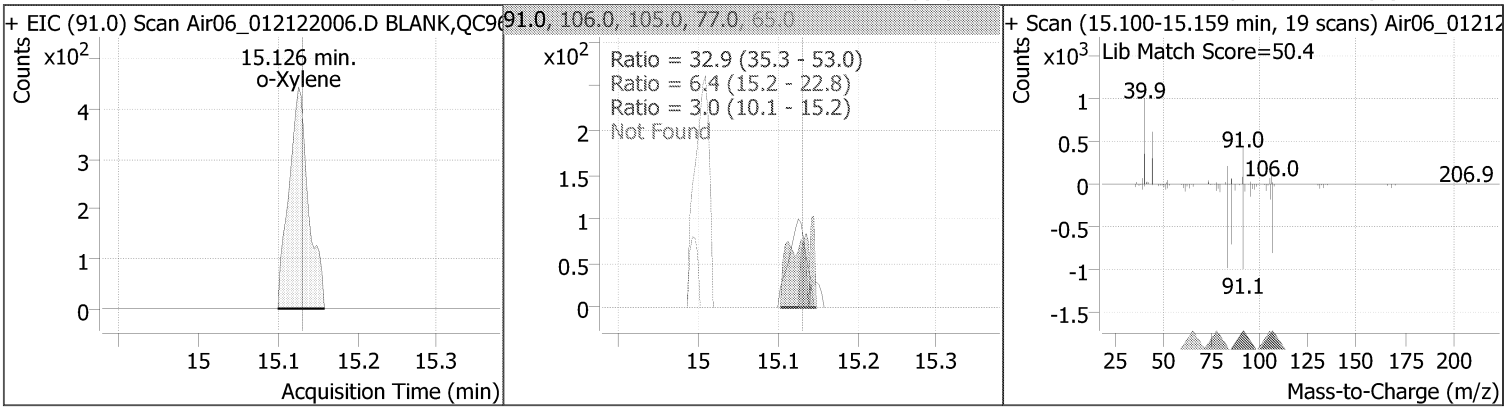
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.0061 | 15.00 | 0.00 | 849 | 103.0 | 38.9 | 39.7 | 59.6 |
| | | | | | 78.0 | 41.7 | 37.5 | 56.3 |
| | | | | | 51.0 | 50.5 | 26.5 | 39.8 |
| | | | | | 77.0 | 21.5 | 18.1 | 27.1 |



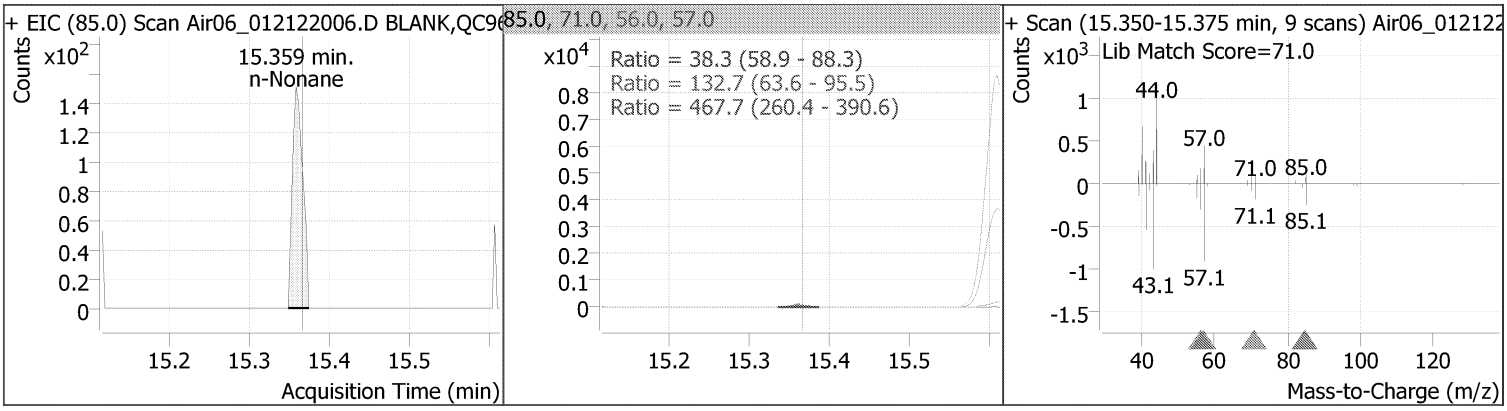

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.0047 | 15.10 | 0.00 | 634 | 85.0 | 64.8 | 51.6 | 77.5 |
| | | | | | 95.0 | 14.1 | 12.9 | 19.4 |
| | | | | | 131.0 | | 7.8 | 11.7 |



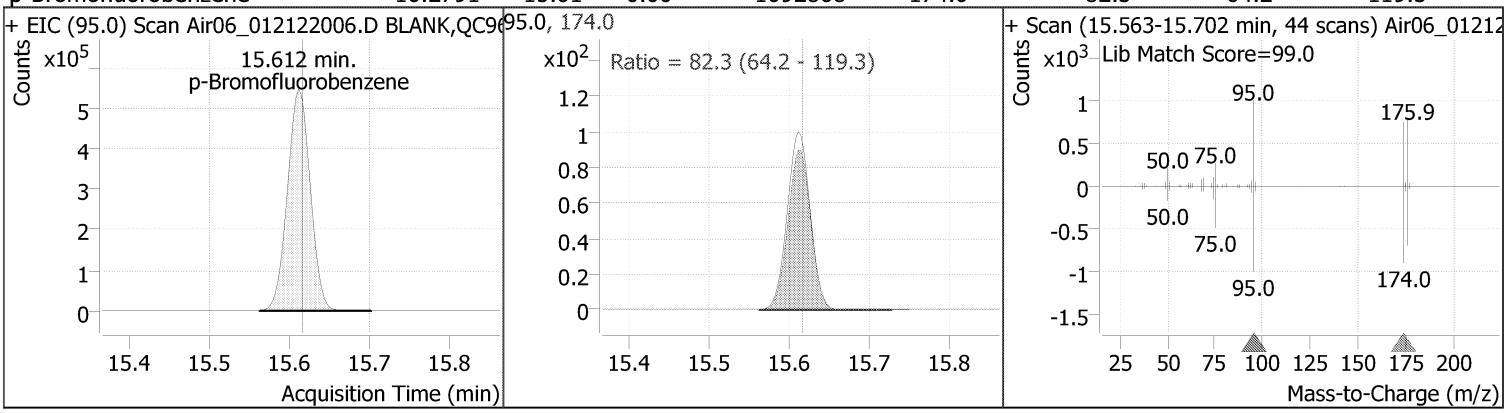

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.0042 | 15.13 | 0.00 | 758 | 106.0 | 32.9 | 35.3 | 53.0 |
| | | | | | 105.0 | 6.4 | 15.2 | 22.8 |
| | | | | | 77.0 | 3.0 | 10.1 | 15.2 |
| | | | | | 65.0 | | 6.2 | 9.3 |



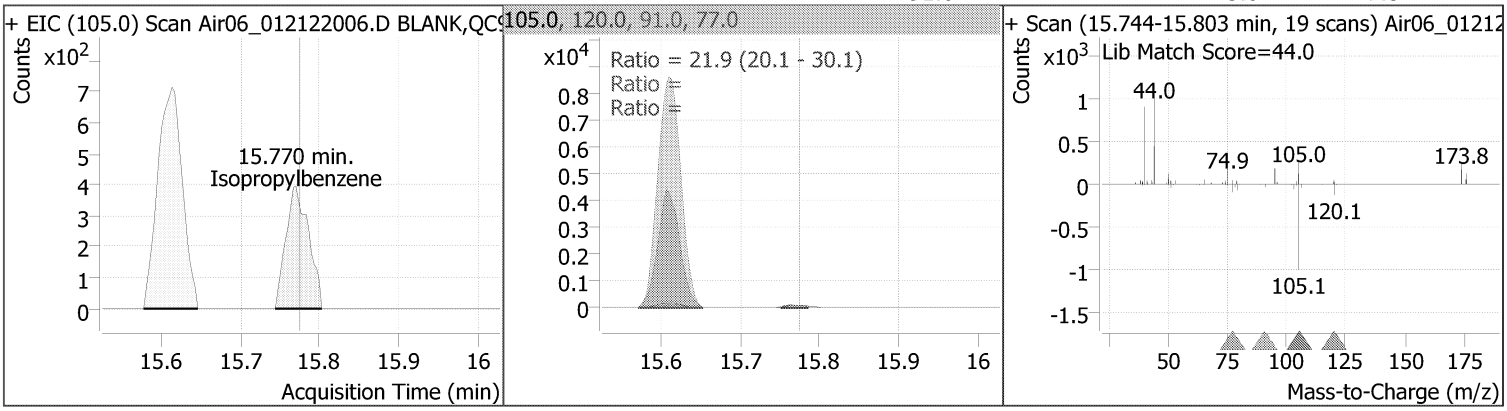
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.0033 | 15.36 | -0.01 | 137 | 57.0 | 467.7 | 260.4 | 390.6 |
| | | | | | 56.0 | 132.7 | 63.6 | 95.5 |
| | | | | | 71.0 | 38.3 | 58.9 | 88.3 |



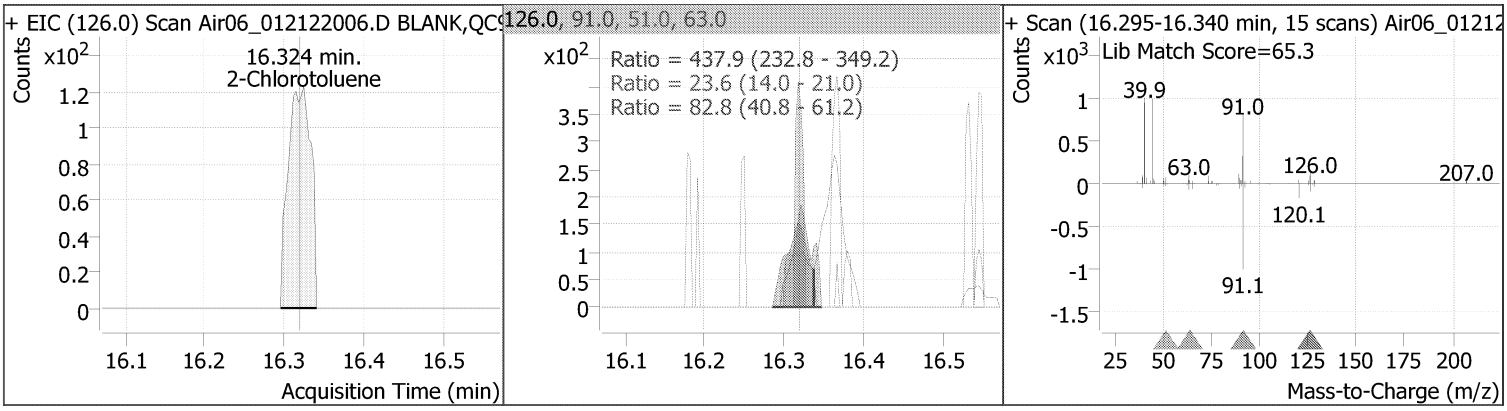

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.2791 | 15.61 | 0.00 | 1092868 | 174.0 | 82.3 | 64.2 | 119.3 |



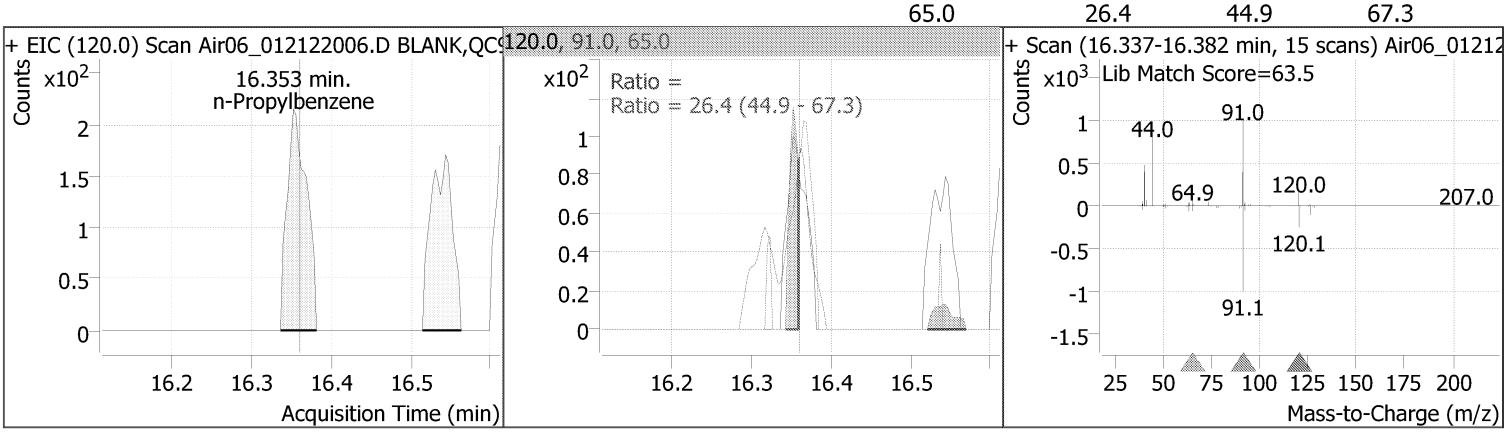

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0031 | 15.77 | -0.01 | 785 | 120.0 | 21.9 | 20.1 | 30.1 |
| | | | | | 77.0 | | 13.1 | 19.6 |
| | | | | | 91.0 | | 5.0 | 7.5 |



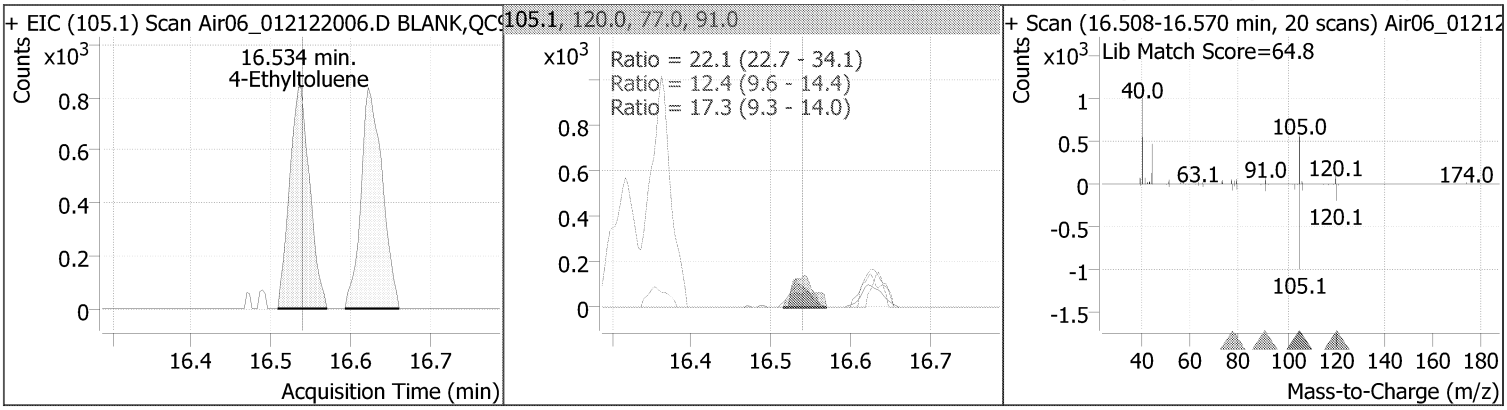
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.0038 | 16.32 | 0.00 | 244 | 91.0 | 437.9 | 232.8 | 349.2 |
| | | | | | 63.0 | 82.8 | 40.8 | 61.2 |
| | | | | | 51.0 | 23.6 | 14.0 | 21.0 |



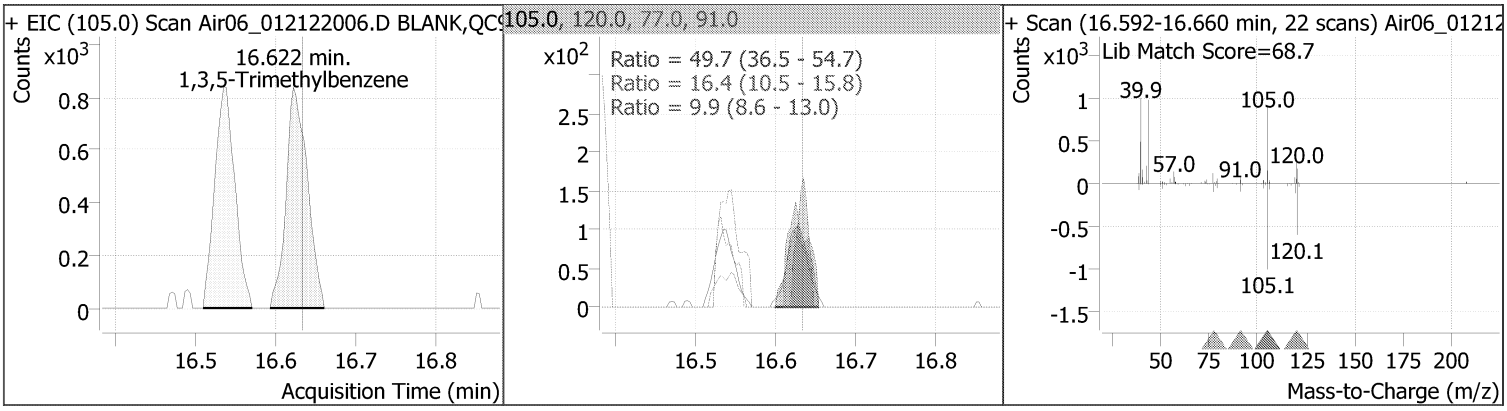

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0052 | 16.35 | -0.01 | 366 | 91.0 | | 389.1 | 583.7 |
| | | | | | 65.0 | 26.4 | 44.9 | 67.3 |



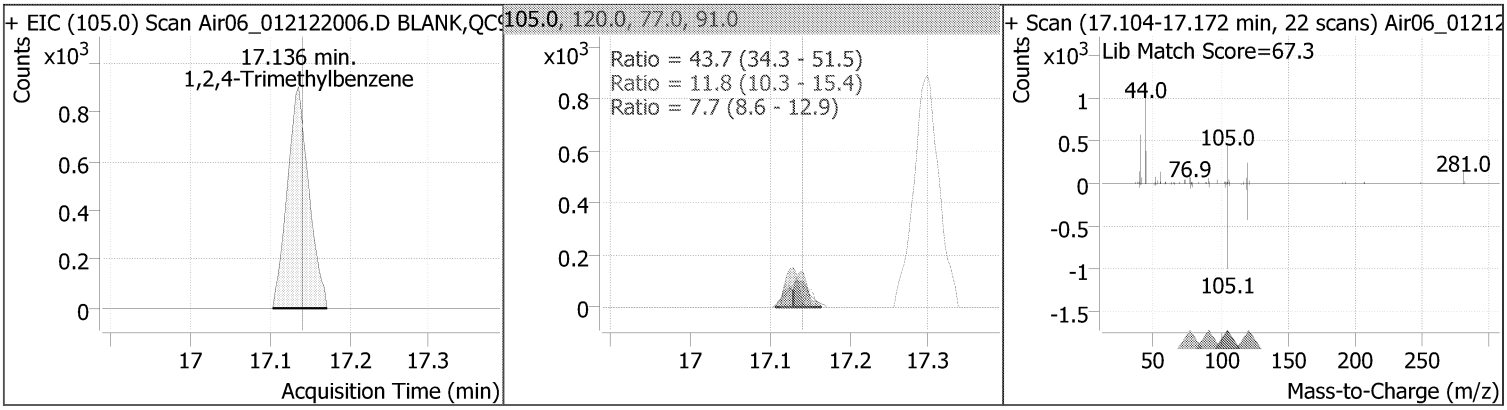

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0060 | 16.53 | 0.00 | 1472 | 120.0 | 22.1 | 22.7 | 34.1 |
| | | | | | 77.0 | 12.4 | 9.6 | 14.4 |
| | | | | | 91.0 | 17.3 | 9.3 | 14.0 |



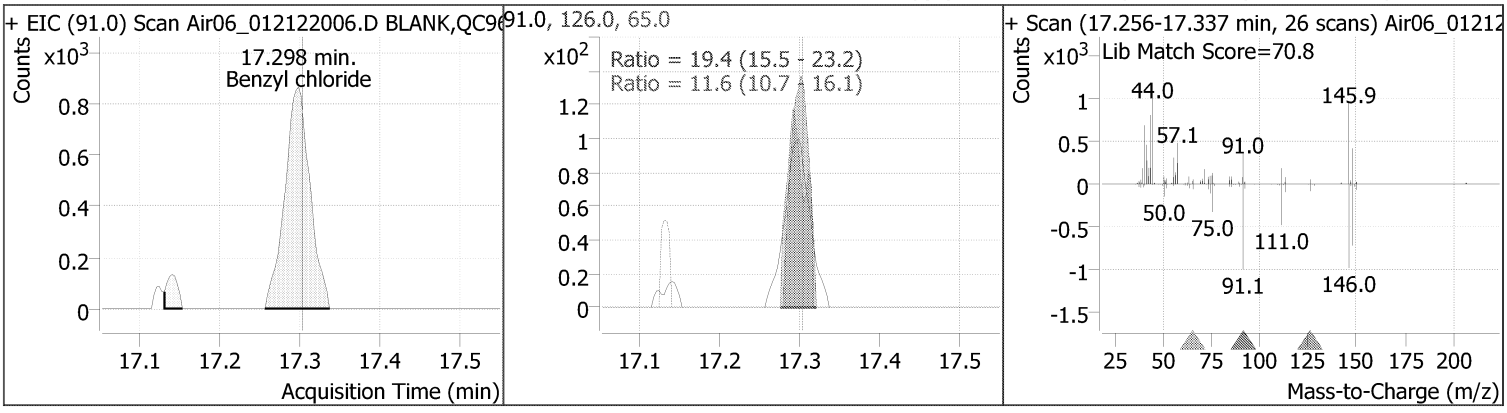
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.0073 | 16.62 | -0.01 | 1552 | 120.0 | 49.7 | 36.5 | 54.7 |
| | | | | | 77.0 | 16.4 | 10.5 | 15.8 |
| | | | | | 91.0 | 9.9 | 8.6 | 13.0 |



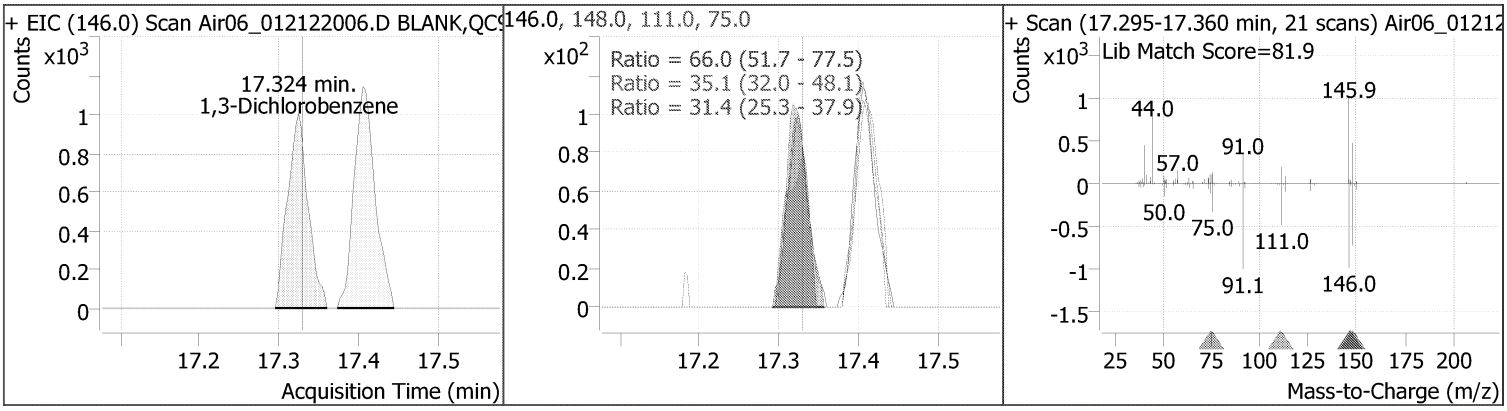

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.0080 | 17.14 | 0.00 | 1688 | 120.0 | 43.7 | 34.3 | 51.5 |
| | | | | | 77.0 | 11.8 | 10.3 | 15.4 |
| | | | | | 91.0 | 7.7 | 8.6 | 12.9 |



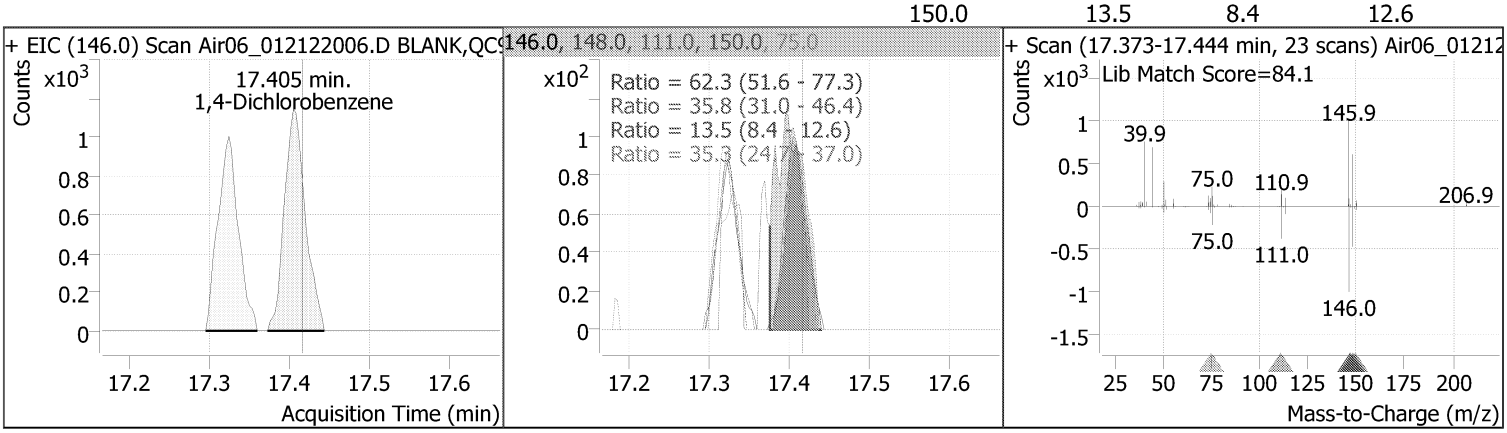

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0102 | 17.30 | 0.00 | 1904 | 126.0 | 19.4 | 15.5 | 23.2 |
| | | | | | 65.0 | 11.6 | 10.7 | 16.1 |



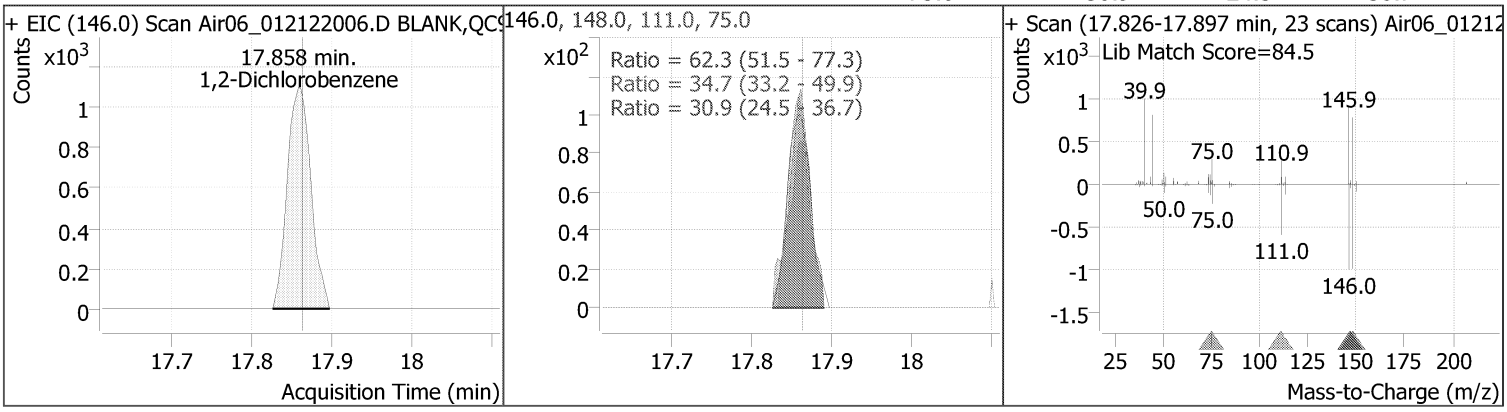
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.0123 | 17.32 | 0.00 | 1793 | 148.0 | 66.0 | 51.7 | 77.5 |
| | | | | | 111.0 | 35.1 | 32.0 | 48.1 |
| | | | | | 75.0 | 31.4 | 25.3 | 37.9 |



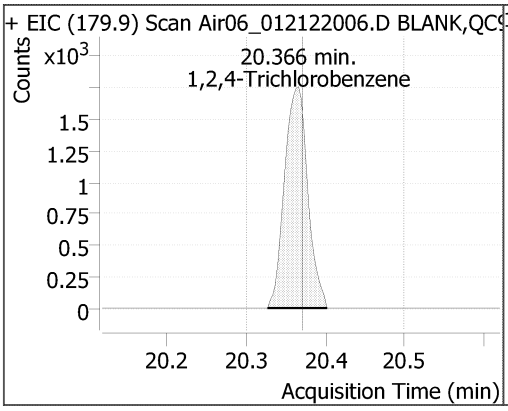

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.0143 | 17.40 | -0.01 | 2102 | 148.0 | 62.3 | 51.6 | 77.3 |
| | | | | | 111.0 | 35.8 | 31.0 | 46.4 |
| | | | | | 75.0 | 35.3 | 24.7 | 37.0 |
| | | | | | 150.0 | 13.5 | 8.4 | 12.6 |

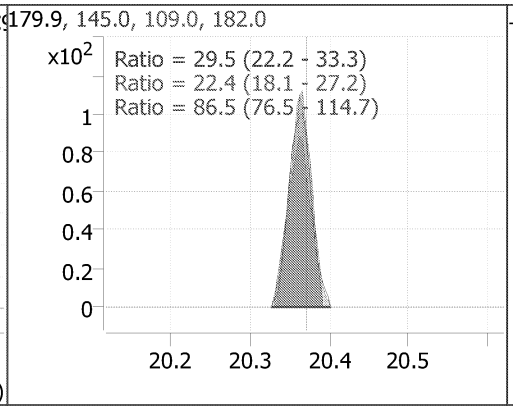


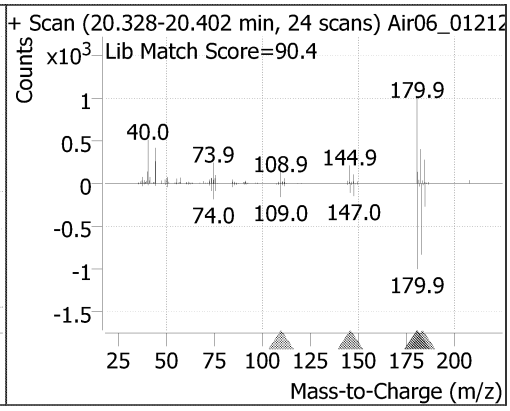

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.0160 | 17.86 | 0.00 | 2271 | 148.0 | 62.3 | 51.5 | 77.3 |
| | | | | | 111.0 | 34.7 | 33.2 | 49.9 |
| | | | | | 75.0 | 30.9 | 24.5 | 36.7 |



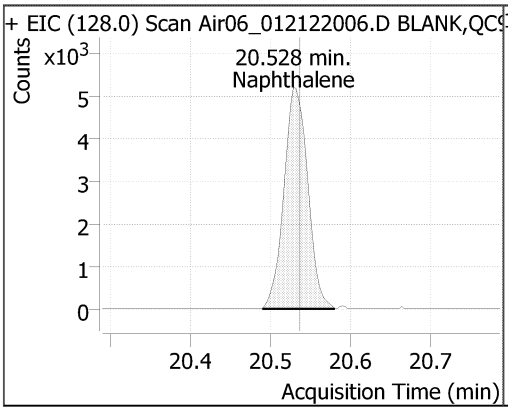
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0305 | 20.37 | 0.00 | 3569 | 182.0 | 86.5 | 76.5 | 114.7 |
| | | | | | 145.0 | 29.5 | 22.2 | 33.3 |
| | | | | | 109.0 | 22.4 | 18.1 | 27.2 |

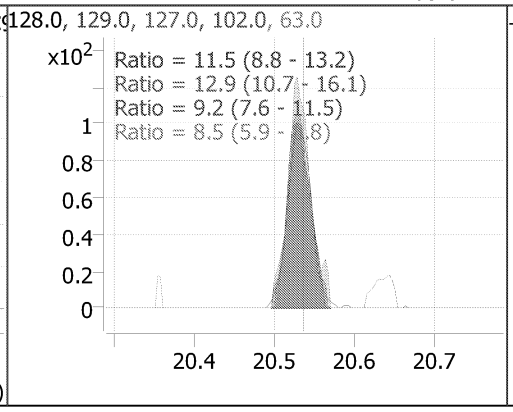


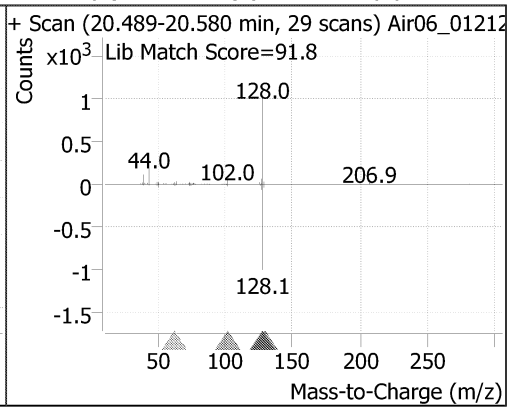



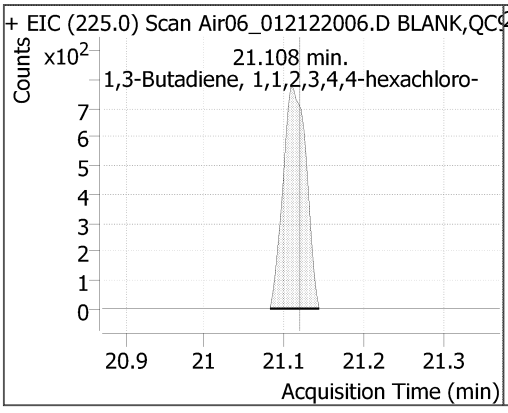

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.0448 | 20.53 | -0.01 | 10851 | 127.0 | 12.9 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.5 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.2 | 7.6 | 11.5 |
| | | | | | 63.0 | 8.5 | 5.9 | 8.8 |

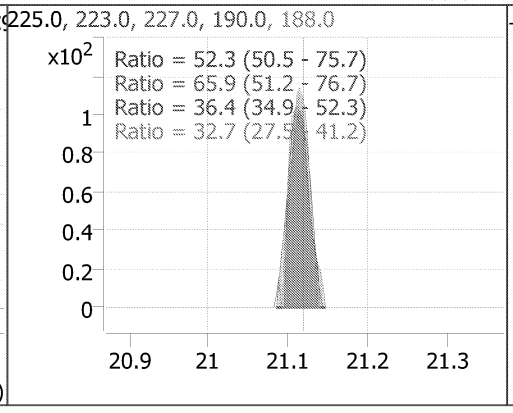


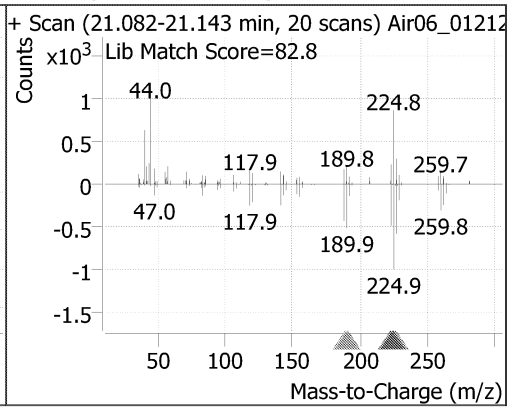




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0125 | 21.11 | -0.01 | 1571 | 227.0 | 65.9 | 51.2 | 76.7 |
| | | | | | 223.0 | 52.3 | 50.5 | 75.7 |
| | | | | | 190.0 | 36.4 | 34.9 | 52.3 |
| | | | | | 188.0 | 32.7 | 27.5 | 41.2 |



# Library Search Results - NonTarget Hits with Details

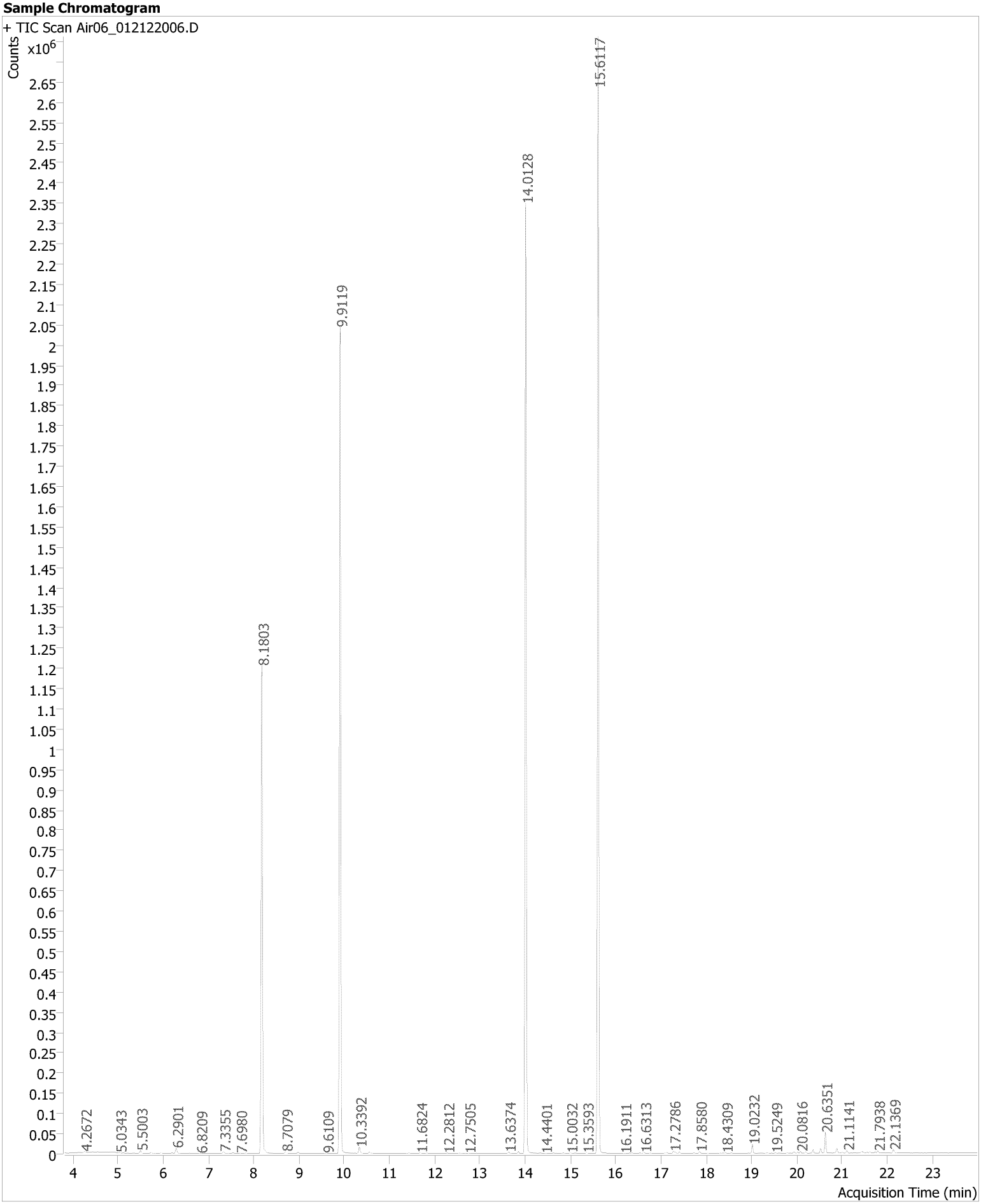
Agilent Technologies

| | | | |
|---|---|---|---|
| **Batch Path** | D:\MassHunter\GCMS\1\data\2022\220121 | | |
| **Analysis File Name** | $2022 Jan 22 0714 TO15_220105.m$.uaf | | |
| **Analyst Name** | 003AIRMS06 | **Analysis Time** | 1/26/2022 11:30:36 AM |
| **File Name** | Air06_012122006.D | **Path Name** | D:\MassHunter\GCMS\1\data\2022\220121 |
| **Sample Name** | BLANK,QC967769,282262,PDF:1,C10611 | **Type** | Sample |
| **Acq. Method File** | TO15_Acq_013120_1 | **Acq. Method Path** | D:\MassHunter\GCMS\1\methods\ |
| **Acq. Date-Time** | 1/21/2022 2:51:42 PM | **Acq. Operator** | DJL/LJB/ZNZ |
| **Instrument Name** | Air-MS-06 | **Dil.** | 1 |

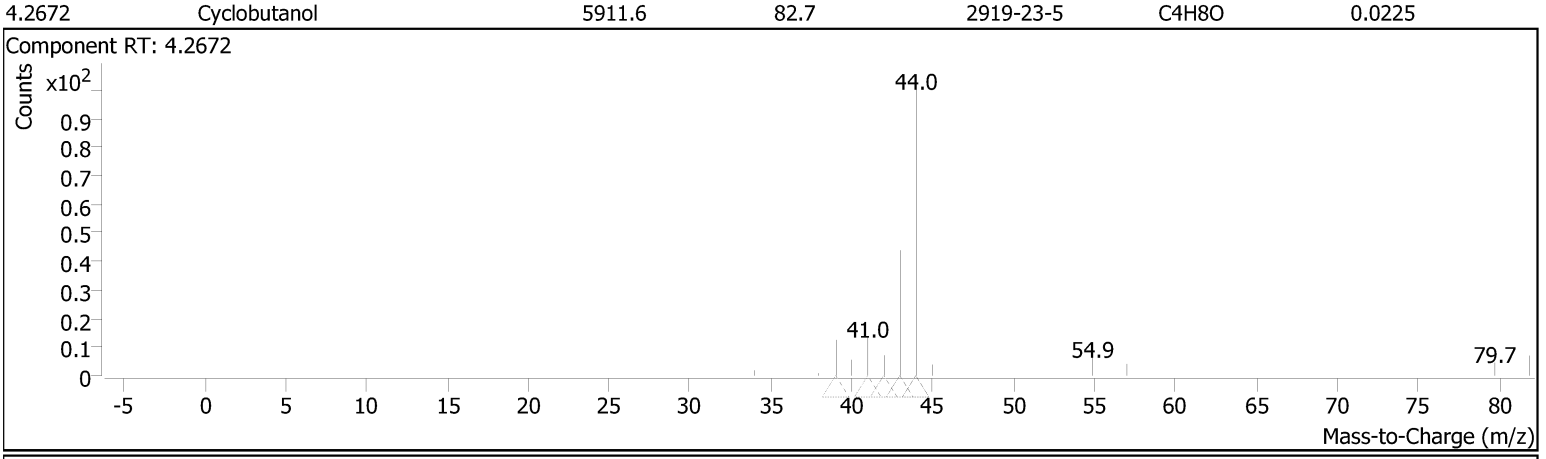
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.2672 | Cyclobutanol | 2919-23-5 | C4H8O | 5911.6 | 82.7 | 0.0225 |
| 5.0343 | Isopropyl Alcohol | 67-63-0 | C3H8O | 2076.6 | 81.8 | 0.007903 |
| 5.5003 | Acetone | 67-64-1 | C3H6O | 14774.1 | 95.9 | 0.05623 |
| 5.7301 | Isopropyl Alcohol | 67-63-0 | C3H8O | 4933.6 | 86.1 | 0.01878 |
| 5.7884 | Acetamide, 2-cyano- | 107-91-5 | C3H4N2O | 710.2 | 75.6 | 0.002703 |
| 5.9535 | Isobutane | 75-28-5 | C4H10 | 3283.6 | 84.4 | 0.0125 |
| 6.2901 | Methylene chloride | 75-09-2 | CH2Cl2 | 30985.9 | 98.0 | 0.1179 |
| 6.8209 | Propanal, 2-methyl- | 78-84-2 | C4H8O | 538.5 | 83.8 | 0.00205 |
| 7.3355 | Silanol, trimethyl- | 1066-40-6 | C3H10OSi | 9325.9 | 92.0 | 0.03549 |
| 7.4521 | Propyl pyruvate | 1000431-41-8 | C6H10O3 | 1270.5 | 81.0 | 0.004835 |
| 7.6980 | Pentane | 109-66-0 | C5H12 | 1377.8 | 75.8 | 0.005243 |
| 7.8307 | Pentane, 2,2,4-trimethyl- | 540-84-1 | C8H18 | 1582.4 | 81.8 | 0.006022 |
| 8.1803 | Methane, bromochloro- | 74-97-5 | CH2BrCl | 2627622.9 | 98.8 | 10 |
| 8.7079 | Tetrahydrofuran | 109-99-9 | C4H8O | 10470.6 | 95.8 | 0.03985 |
| 9.6109 | Fumaronitrile | 764-42-1 | C4H2N2 | 2468.7 | 83.1 | 0.005889 |
| 9.9119 | Benzene, 1,4-difluoro- | 540-36-3 | C6H4F2 | 4191741.1 | 99.5 | 10 |
| 10.3392 | Benzene, 1,3-difluoro- | 372-18-9 | C6H4F2 | 36598.5 | 97.7 | 0.08731 |
| 10.5593 | Trichloroethylene | 79-01-6 | C2HCl3 | 6963.7 | 90.2 | 0.01661 |
| 10.6143 | t-Butyl nitrite | 540-80-7 | C4H9NO2 | 1769.2 | 75.3 | 0.004221 |
| 11.4299 | Acetyl valeryl | 96-04-8 | C7H12O2 | 2427.0 | 80.4 | 0.00579 |
| 11.6824 | Hexane, 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro- | 355-37-3 | C6HF13 | 2930.5 | 77.4 | 0.006991 |
| 11.8183 | 1-Propene, 1,3-dichloro-, (E)- | 10061-02-6 | C3H4Cl2 | 1513.4 | 79.1 | 0.00361 |
| 12.2812 | Bicyclo[3.2.0]hepta-2,6-diene | 2422-86-8 | C7H8 | 1769.2 | 80.9 | 0.003691 |
| 12.5595 | Acetone | 67-64-1 | C3H6O | 1956.7 | 88.0 | 0.004082 |
| 12.6793 | Acetamide, 2-cyano- | 107-91-5 | C3H4N2O | 119.4 | 70.9 | 0.000249 |
| 12.7505 | Isobutyl chloroformate | 543-27-1 | C5H9ClO2 | 1252.5 | 73.4 | 0.002613 |
| 13.6374 | Cyclotrisiloxane, hexamethyl- | 541-05-9 | C6H18O3Si3 | 7126.6 | 87.2 | 0.01487 |
| 13.8542 | Benzene, 1-chloro-3-fluoro- | 625-98-9 | C6H4ClF | 8478.1 | 88.9 | 0.01769 |
| 14.0128 | Chlorobenzene-d5 | 3114-55-4 | C6D5Cl | 4793750.4 | 95.5 | 10 |
| 14.4401 | Ethylbenzene | 100-41-4 | C8H10 | 1163.9 | 70.1 | 0.002428 |
| 14.8382 | Cyclobutane, methyl- | 598-61-8 | C5H10 | 3276.6 | 76.1 | 0.006835 |
| 15.0032 | Butanedioic acid, phenyl- | 635-51-8 | C10H10O4 | 3257.6 | 72.2 | 0.006795 |
| 15.3593 | Pentane, 2,4-dimethyl- | 108-08-7 | C7H16 | 2814.1 | 88.0 | 0.00587 |
| 15.6117 | Benzene, 1-bromo-3-fluoro- | 1073-06-9 | C6H4BrF | 5498556.3 | 98.2 | 11.47 |
| 16.1911 | 3-Buten-1-one, 2,2-dimethyl-1-phenyl- | 62894-04-6 | C12H14O | 651.6 | 76.1 | 0.001359 |
| 16.3659 | Benzeneacetaldehyde | 122-78-1 | C8H8O | 2488.0 | 80.0 | 0.00519 |
| 16.5407 | Benzene, (1-methylethyl)- | 98-82-8 | C9H12 | 2610.6 | 81.7 | 0.005446 |
| 16.6313 | Benzene, (1-methylethyl)- | 98-82-8 | C9H12 | 5183.0 | 80.4 | 0.01081 |
| 16.7705 | Butane, 2,2-dimethyl- | 75-83-2 | C6H14 | 934.1 | 76.7 | 0.001949 |
| 17.0941 | Cyclotetrasiloxane, octamethyl- | 556-67-2 | C8H24O4Si4 | 2043.4 | 81.8 | 0.004263 |
| 17.1362 | Benzene, 1-ethyl-4-methyl- | 622-96-8 | C9H12 | 4497.0 | 75.1 | 0.009381 |
| 17.2786 | Hexane, 2,4-dimethyl- | 589-43-5 | C8H18 | 13896.2 | 82.7 | 0.02899 |
| 17.3207 | Benzene, 1,4-dichloro- | 106-46-7 | C6H4Cl2 | 6302.8 | 80.6 | 0.01315 |
| 17.4049 | Benzene, 1,4-dichloro- | 106-46-7 | C6H4Cl2 | 7747.2 | 86.8 | 0.01616 |
| 17.7318 | Butane, 2,2-dimethyl- | 75-83-2 | C6H14 | 2488.6 | 91.3 | 0.005191 |
| 17.8580 | Benzene, 1,4-dichloro- | 106-46-7 | C6H4Cl2 | 8722.9 | 90.1 | 0.0182 |
| 18.0360 | Oxalic acid, cyclohexyl isobutyl ester | 1000309-30-4 | C12H20O4 | 1890.9 | 74.1 | 0.003945 |
| 18.3209 | Hexane, 2-methyl- | 591-76-4 | C7H16 | 1471.4 | 81.0 | 0.003069 |
| 18.3759 | Hexane, 3-methyl- | 589-34-4 | C7H16 | 2612.2 | 73.2 | 0.005449 |
| 18.4309 | Oxalic acid, isobutyl octyl ester | 1000309-37-3 | C14H26O4 | 3012.6 | 77.9 | 0.006285 |
| 18.5571 | Pentane, 2,3-dimethyl- | 565-59-3 | C7H16 | 2292.8 | 78.4 | 0.004783 |
| 19.0232 | Undecane | 1120-21-4 | C11H24 | 42519.4 | 96.3 | 0.0887 |
| 19.3501 | Pentane, 2,2,3,4-tetramethyl- | 1186-53-4 | C9H20 | 3657.2 | 74.6 | 0.007629 |
| 19.5249 | Hexane, 3-methyl- | 589-34-4 | C7H16 | 3043.4 | 76.8 | 0.006349 |
| 19.7935 | Cyclopentane, 1-methyl-3-(1-methylethyl)- | 53771-88-3 | C9H18 | 2653.8 | 75.1 | 0.005536 |
| 19.9424 | Heptane, 2,3,6-trimethyl- | 4032-93-3 | C10H22 | 8323.0 | 85.6 | 0.01736 |
| 20.0169 | Hexane, 2,3,4-trimethyl- | 921-47-1 | C9H20 | 4894.3 | 78.9 | 0.01021 |
| 20.0816 | Octane, 6-ethyl-2-methyl- | 62016-19-7 | C11H24 | 8613.9 | 84.8 | 0.01797 |
| 20.2014 | Pentane, 2,2,3,4-tetramethyl- | 1186-53-4 | C9H20 | 6519.6 | 85.0 | 0.0136 |

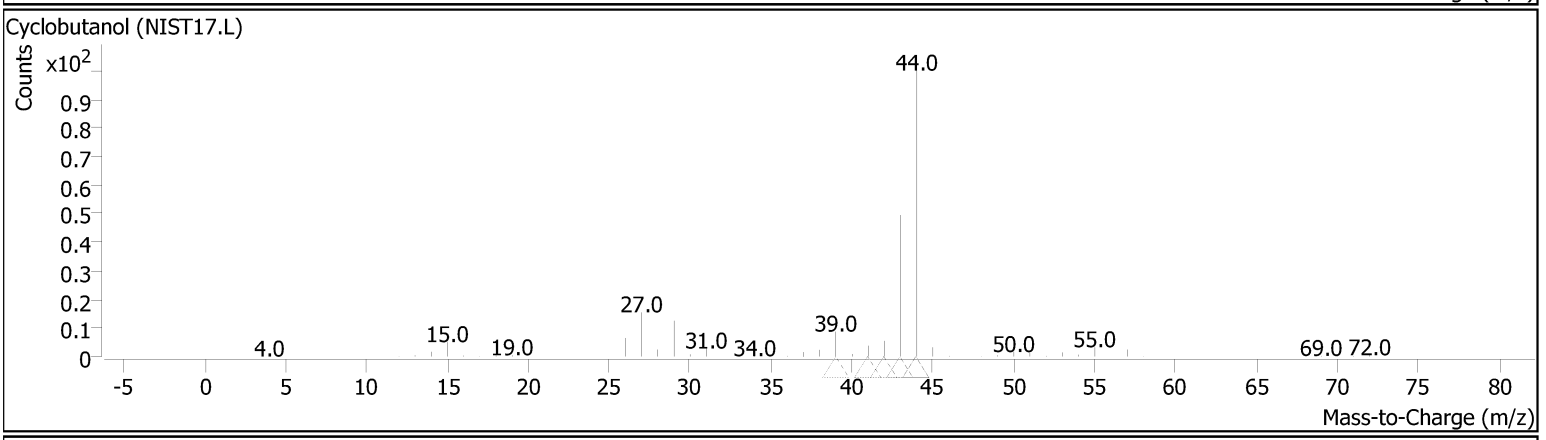
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3632 | Benzene, 1,3,5-trichloro- | 108-70-3 | C6H3Cl3 | 15873.7 | 95.1 | 0.03311 |
| 20.5315 | Naphthalene | 91-20-3 | C10H8 | 22803.1 | 93.2 | 0.04757 |
| 20.6351 | Dodecane | 112-40-3 | C12H26 | 94068.0 | 96.6 | 0.1962 |
| 20.8875 | Decane, 2,5,9-trimethyl- | 62108-22-9 | C13H28 | 23414.7 | 94.4 | 0.04884 |
| 21.0170 | Pentane, 2,3,3-trimethyl- | 560-21-4 | C8H18 | 1948.9 | 77.0 | 0.004065 |
| 21.1141 | 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 87-68-3 | C4Cl6 | 14546.4 | 88.1 | 0.03034 |
| 21.4443 | Oxalic acid, allyl hexadecyl ester | 1000309-24-4 | C21H38O4 | 13543.6 | 80.3 | 0.02825 |
| 21.5575 | Decane, 3,3,4-trimethyl- | 49622-18-6 | C13H28 | 4134.4 | 77.1 | 0.008624 |
| 21.6190 | Pentane, 2,2,3,4-tetramethyl- | 1186-53-4 | C9H20 | 6052.5 | 70.3 | 0.01263 |
| 21.7938 | Octane, 2,3,7-trimethyl- | 62016-34-6 | C11H24 | 10703.6 | 86.5 | 0.02233 |
| 22.1369 | Oxalic acid, allyl nonyl ester | 1000309-23-7 | C14H24O4 | 18418.1 | 82.4 | 0.03842 |

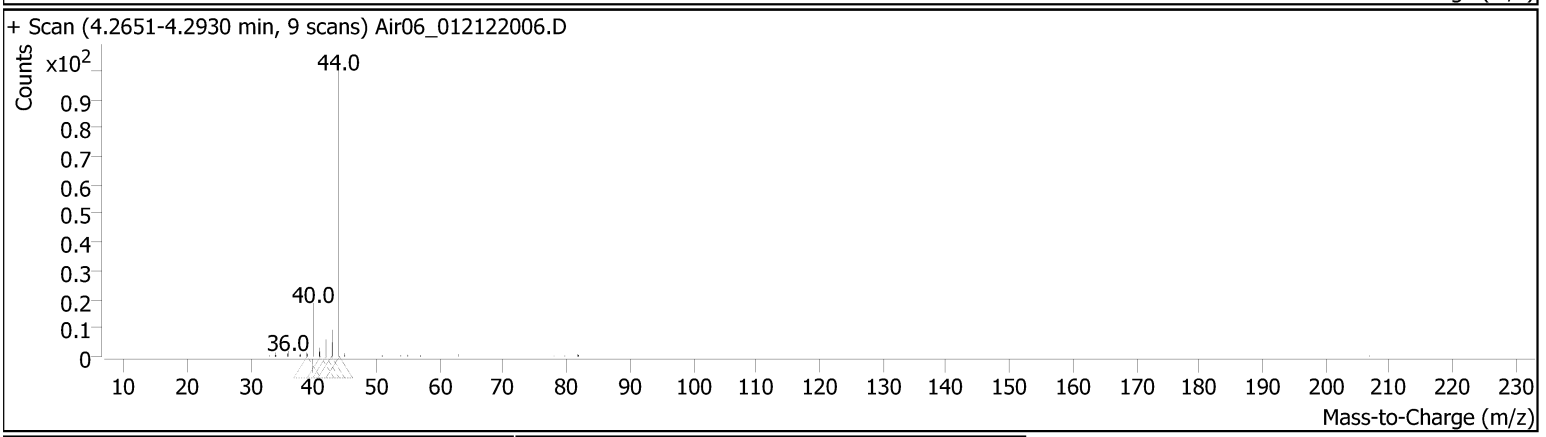
**Sample Chromatogram**

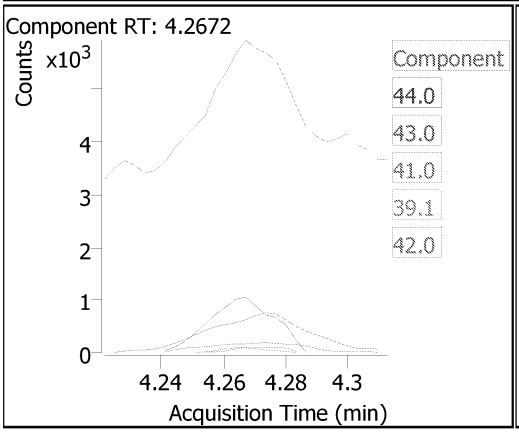


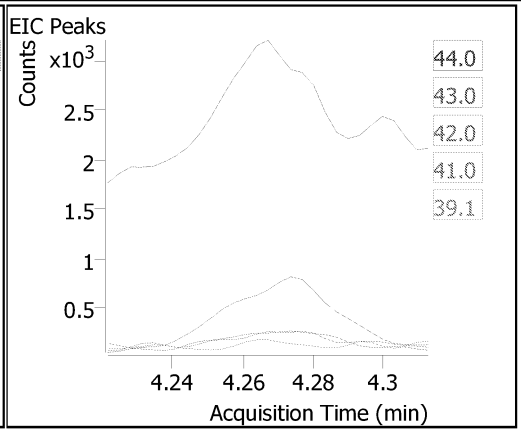
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.2672 | Cyclobutanol | 5911.6 | 82.7 | 2919-23-5 | C4H8O | 0.0225 |

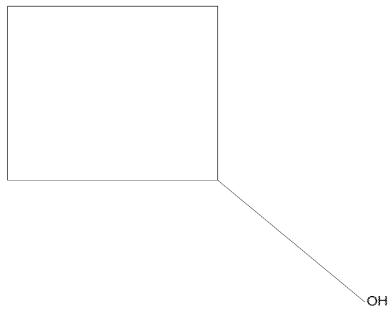


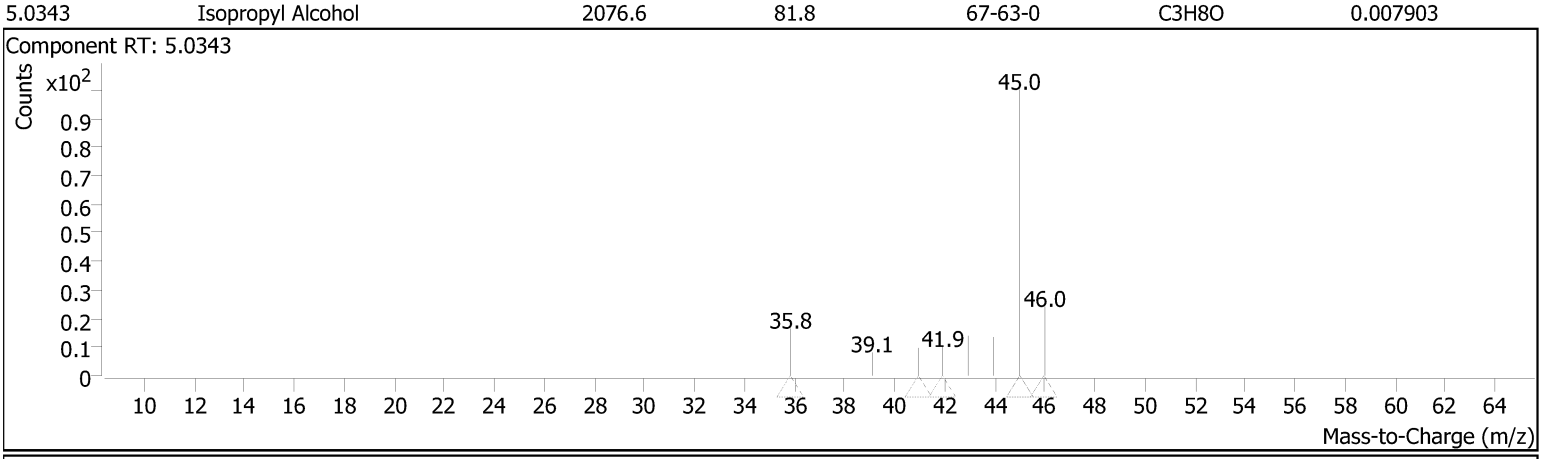



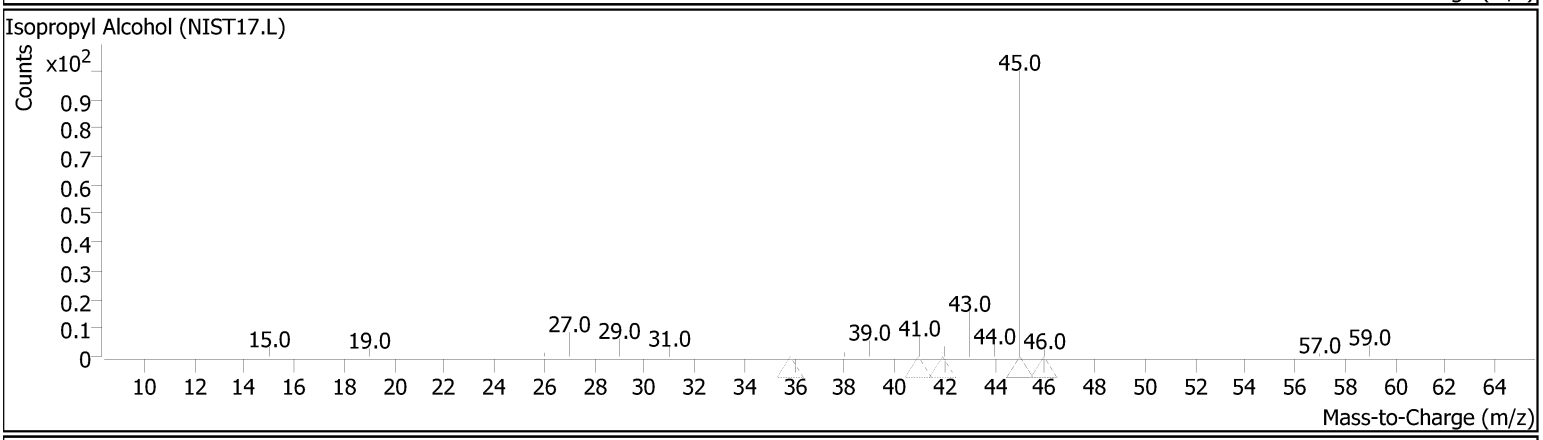



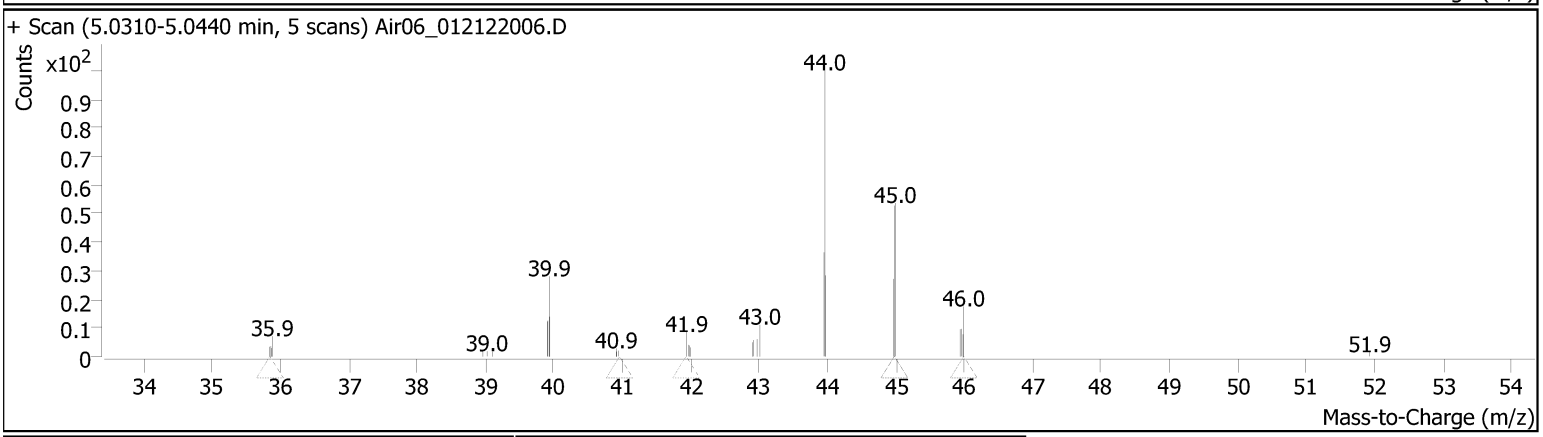



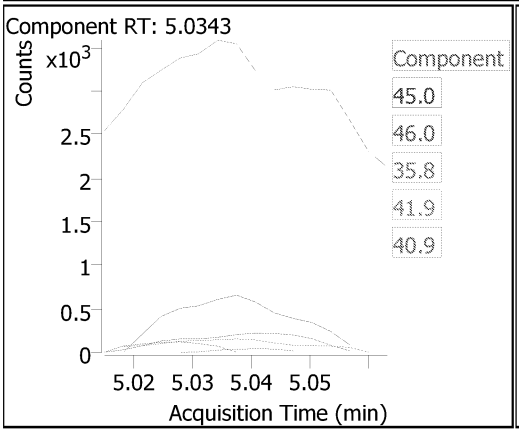



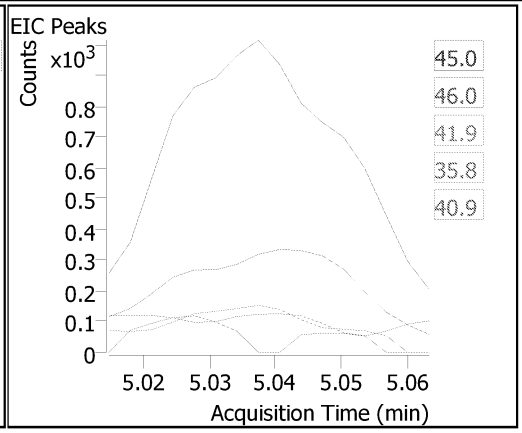
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.0343 | Isopropyl Alcohol | 2076.6 | 81.8 | 67-63-0 | C3H8O | 0.007903 |

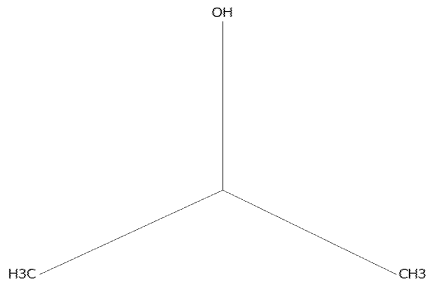


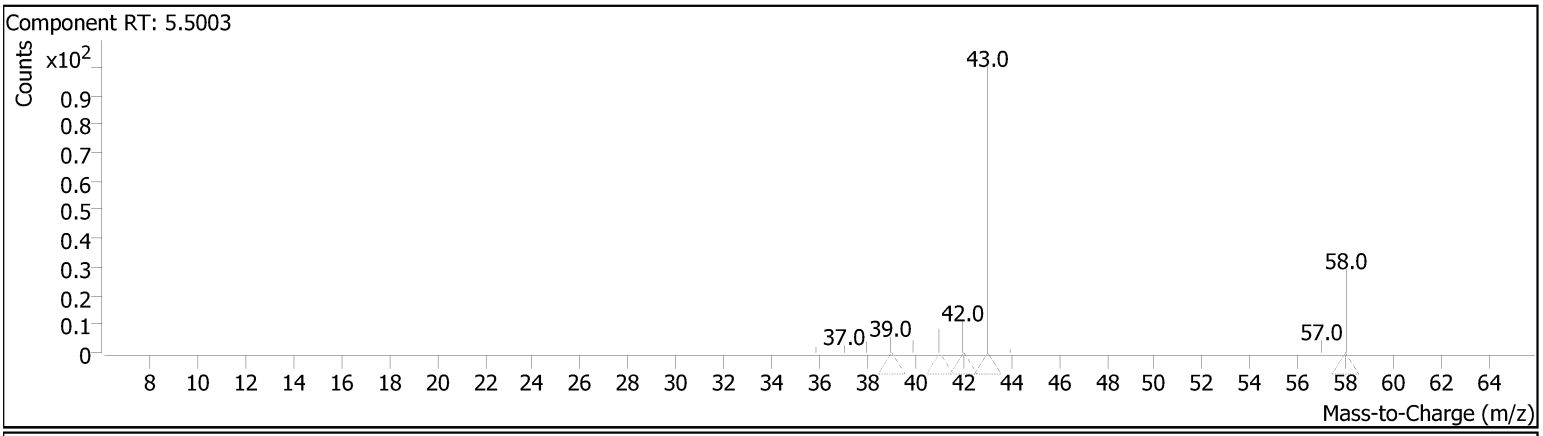



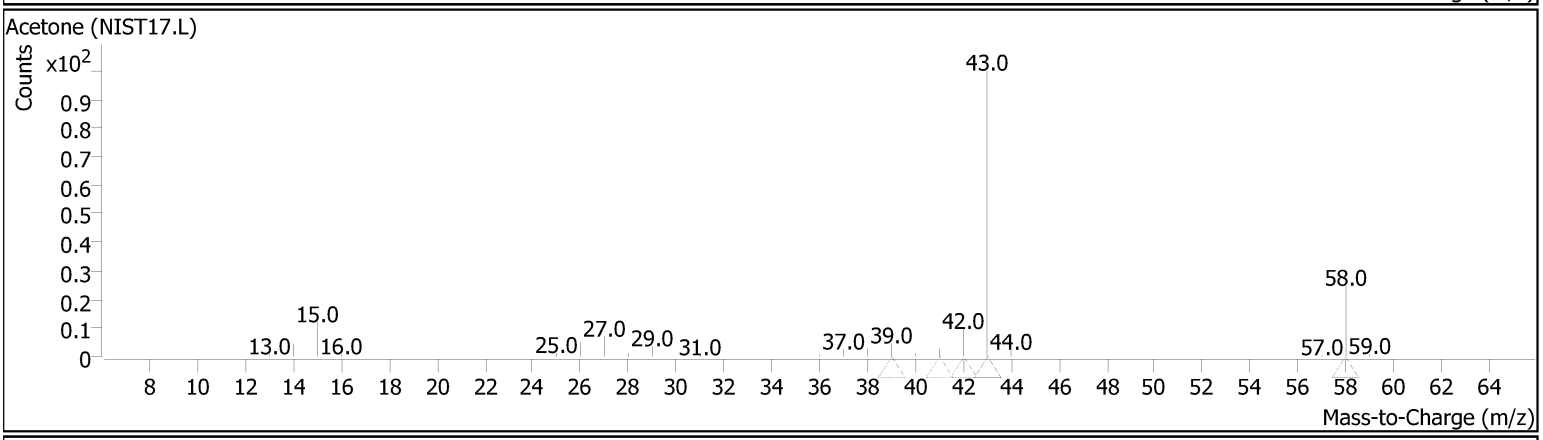



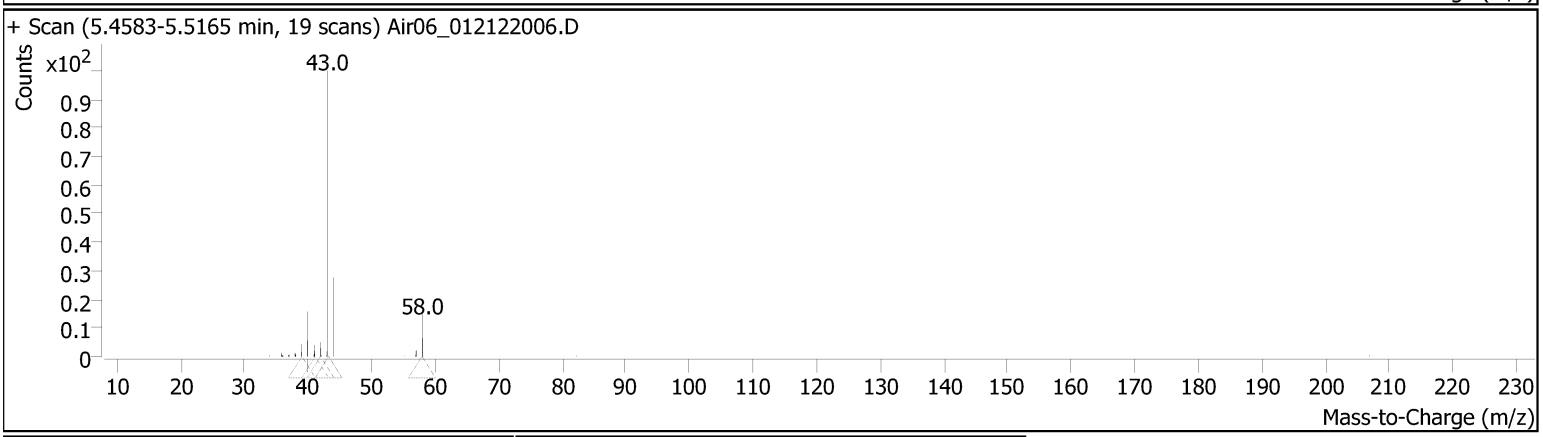



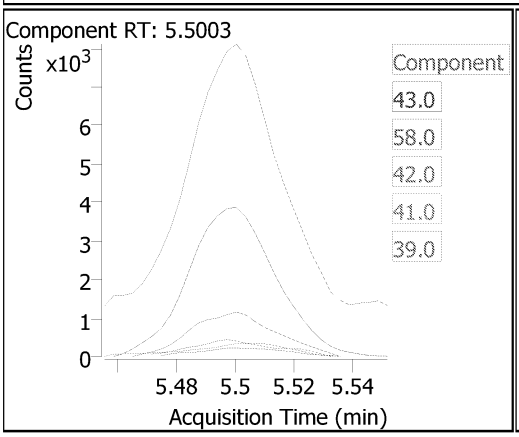



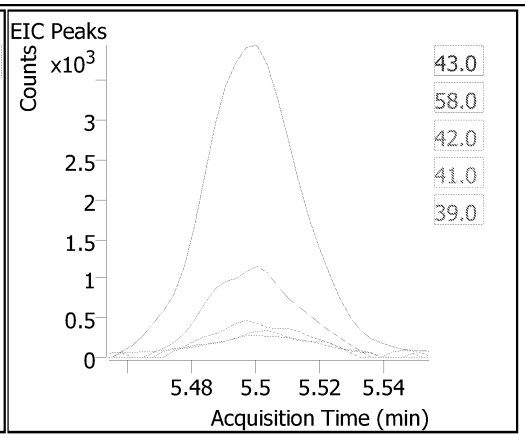
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.5003 | Acetone | 14774.1 | 95.9 | 67-64-1 | C3H6O | 0.05623 |

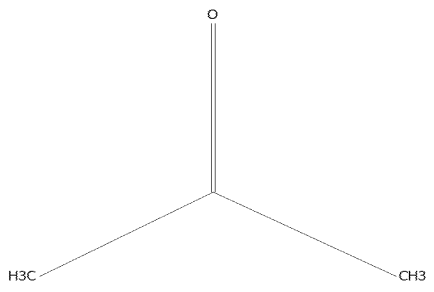


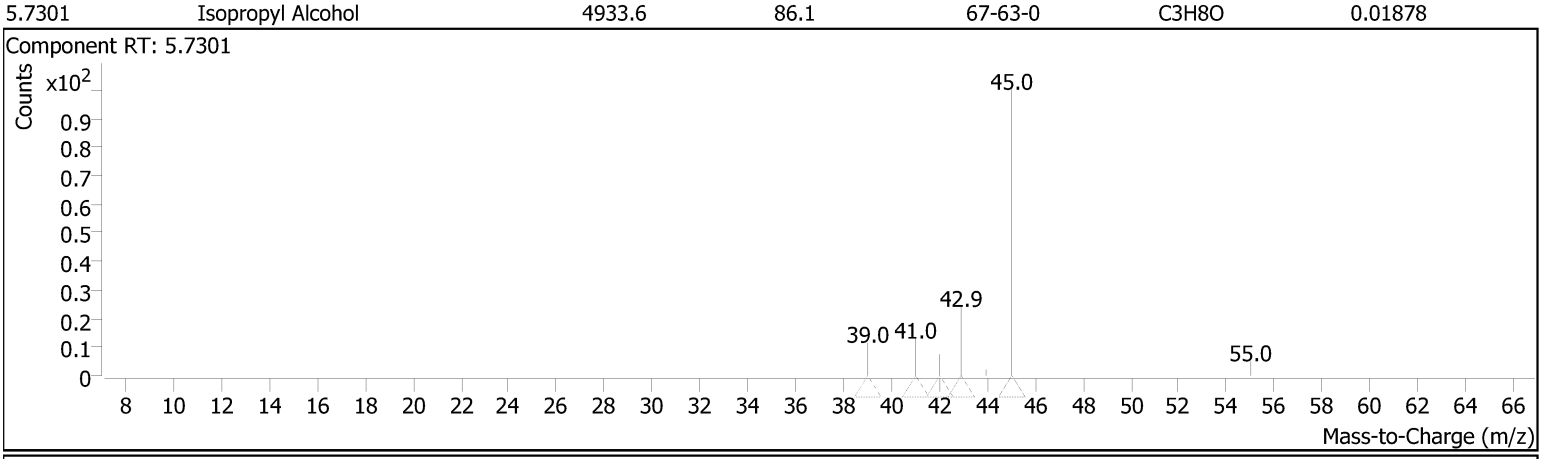



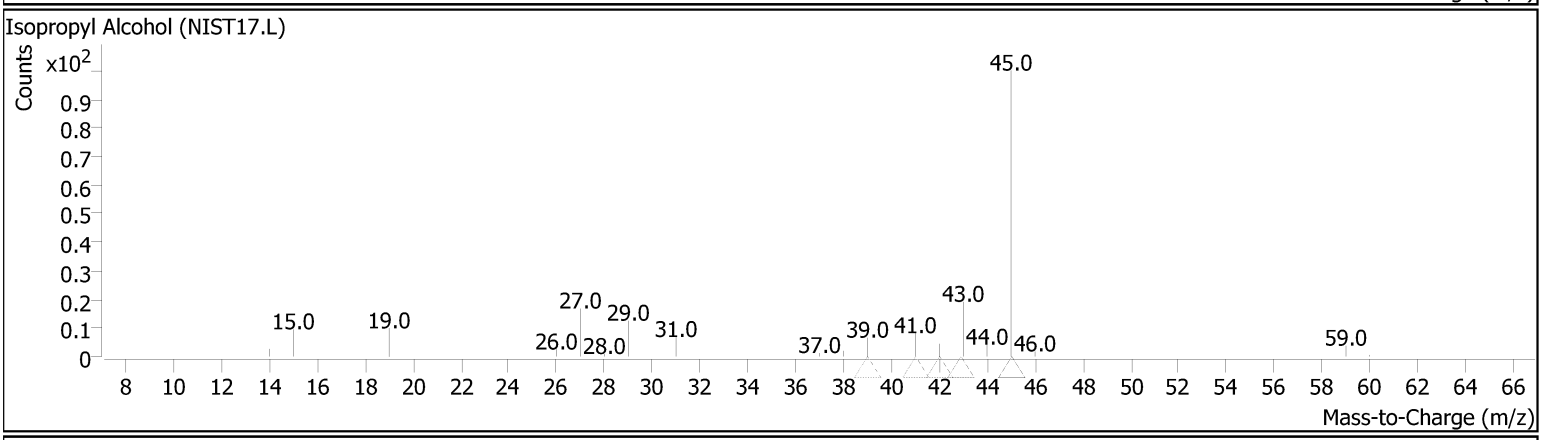



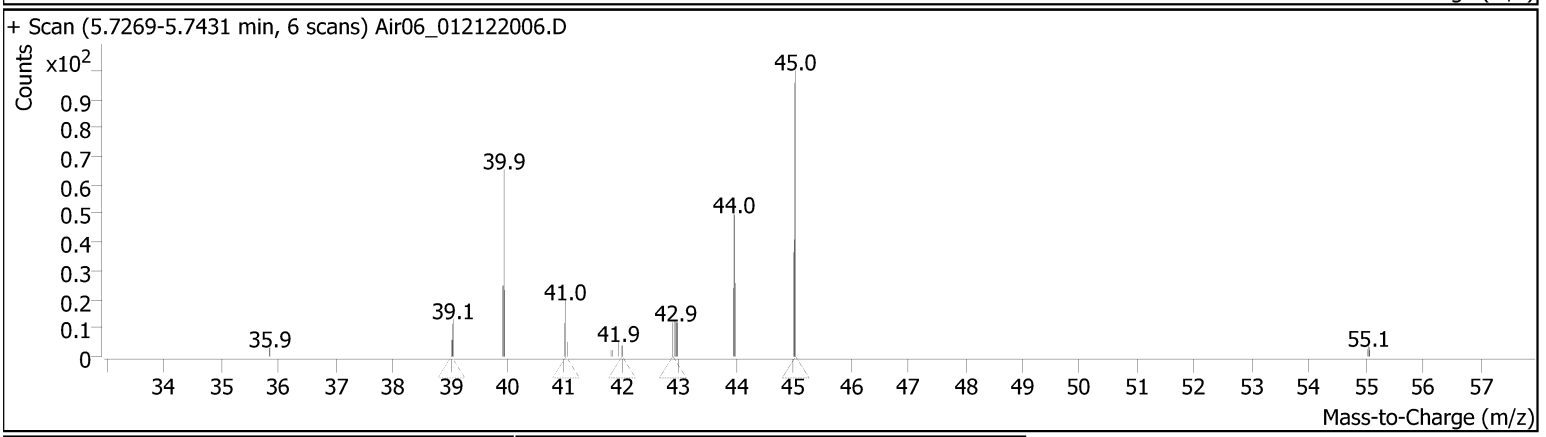



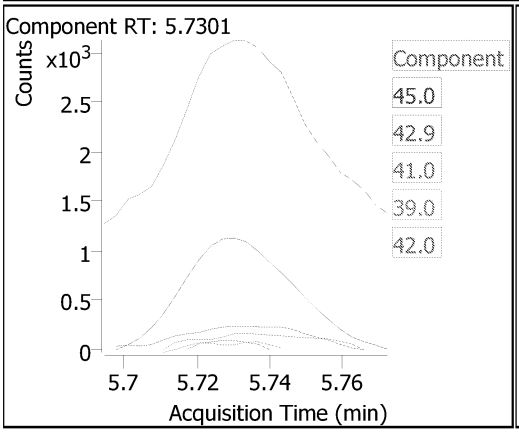



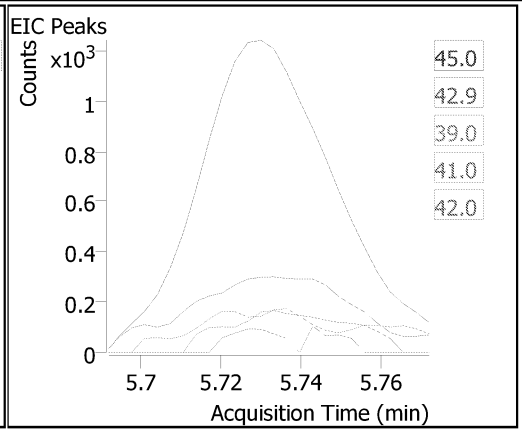
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.7301 | Isopropyl Alcohol | 4933.6 | 86.1 | 67-63-0 | C3H8O | 0.01878 |

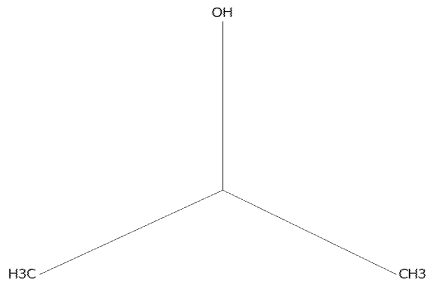


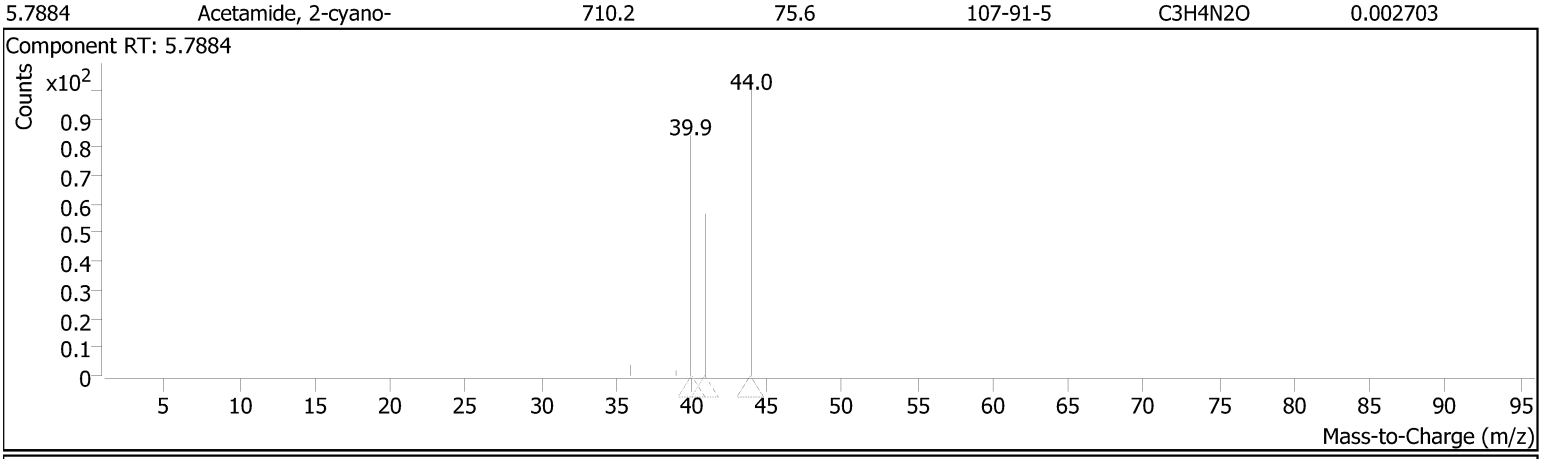



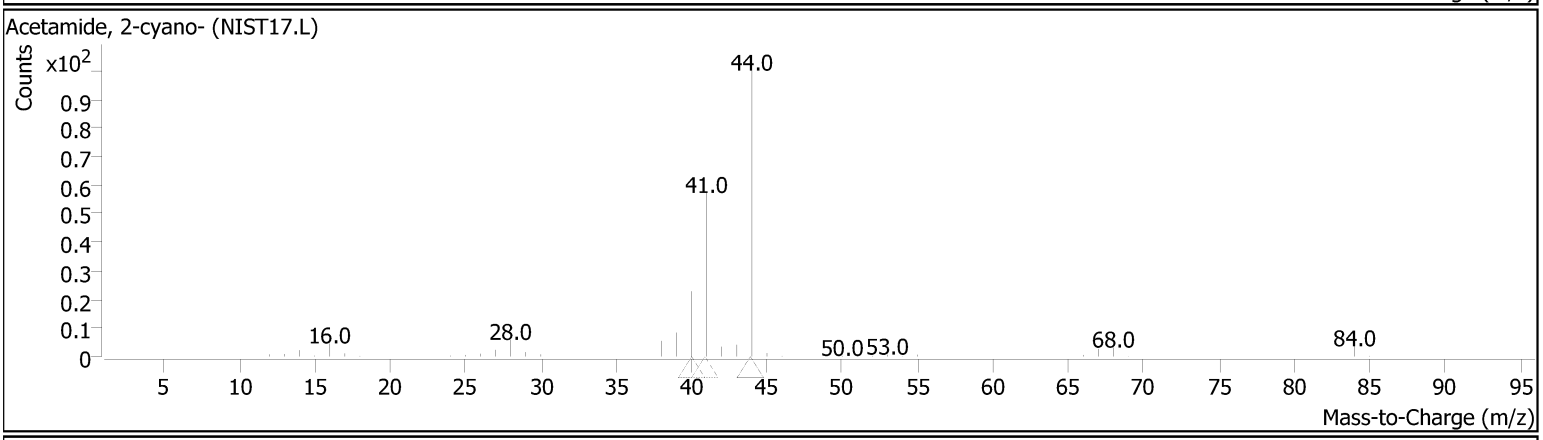



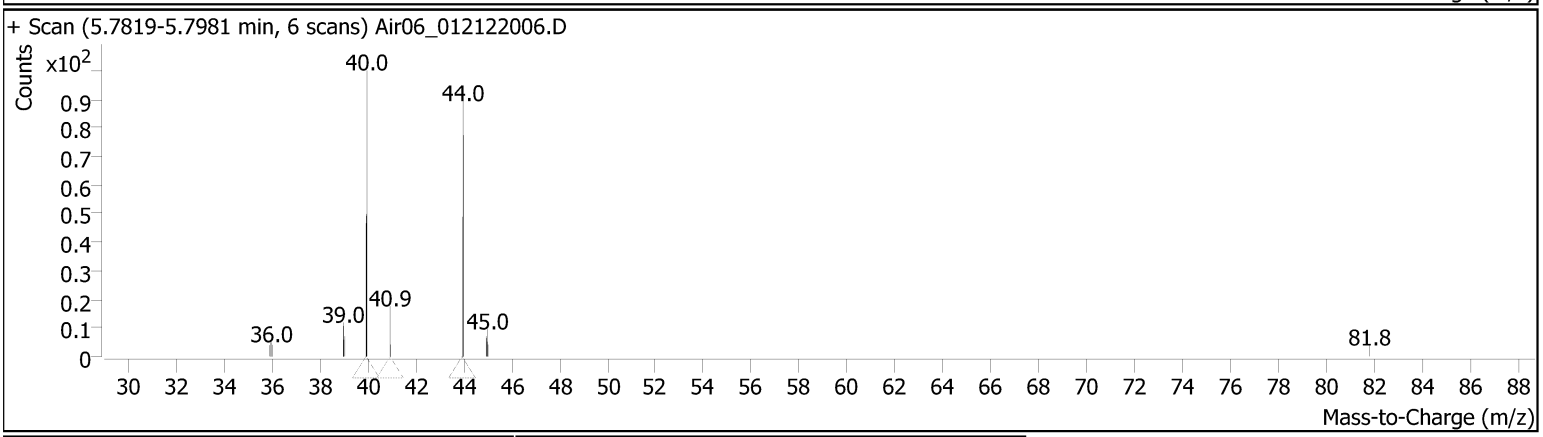



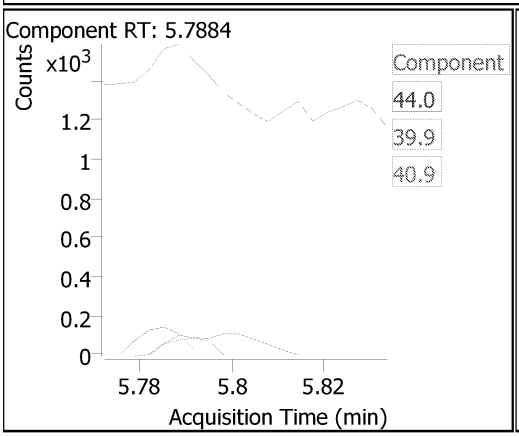



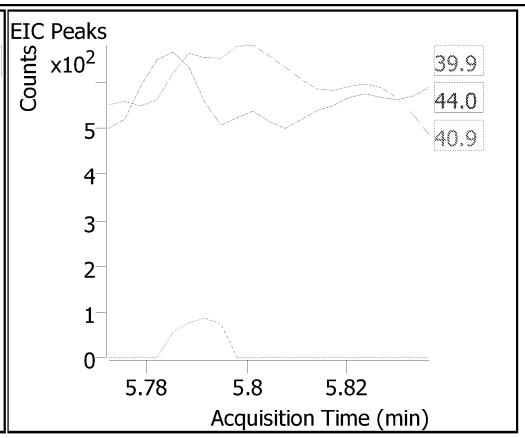
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.7884 | Acetamide, 2-cyano- | 710.2 | 75.6 | 107-91-5 | C3H4N2O | 0.002703 |

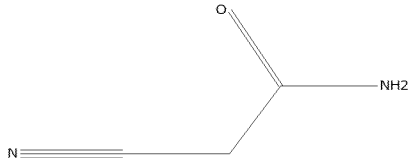


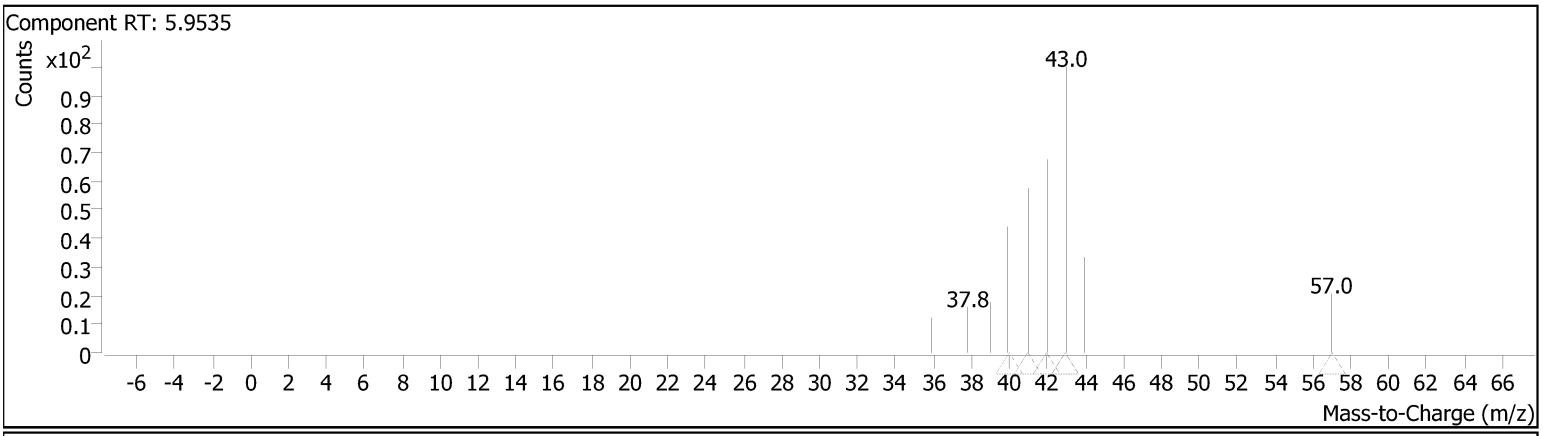



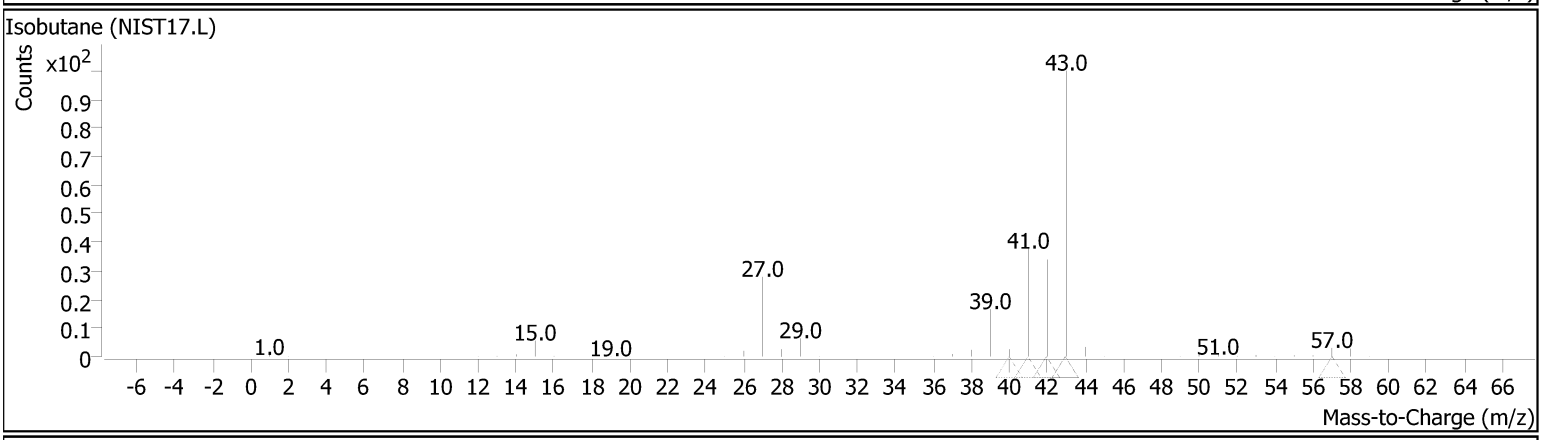



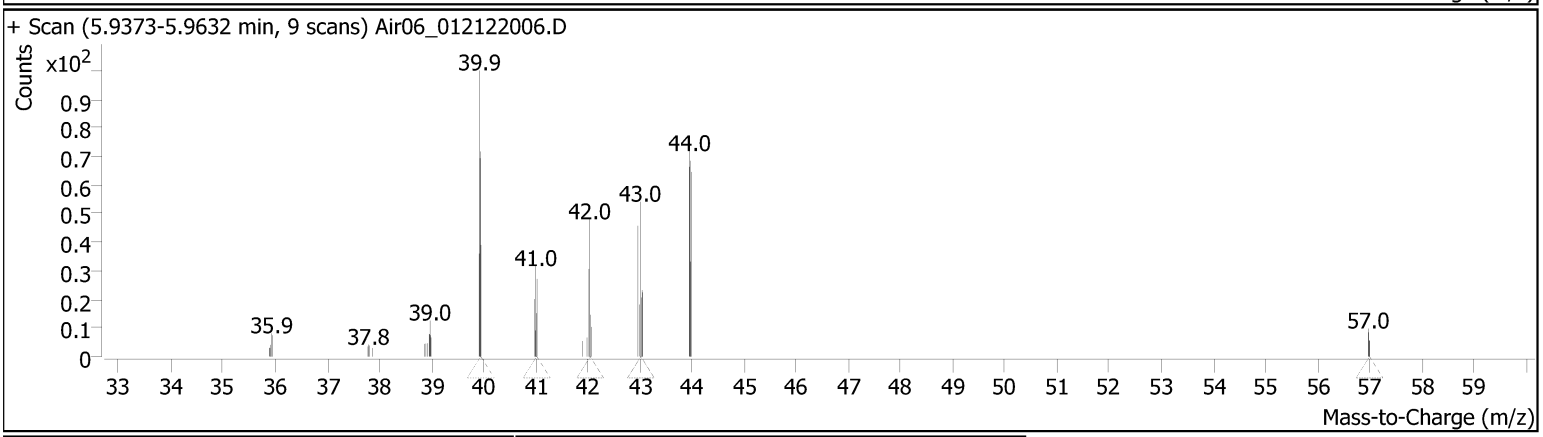



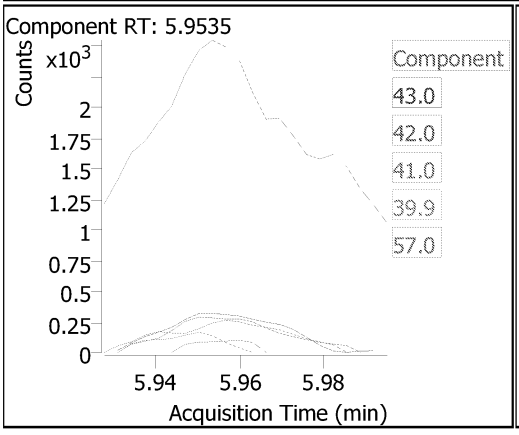



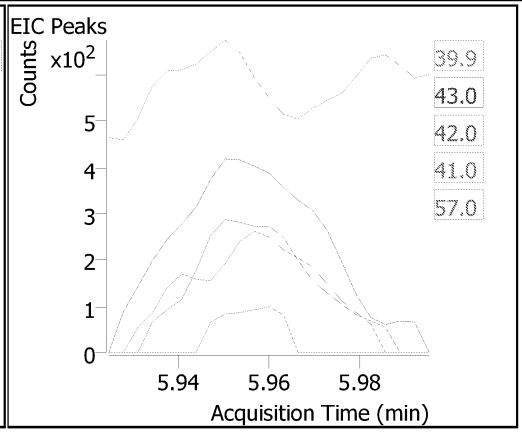
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.9535 | Isobutane | 3283.6 | 84.4 | 75-28-5 | C4H10 | 0.0125 |

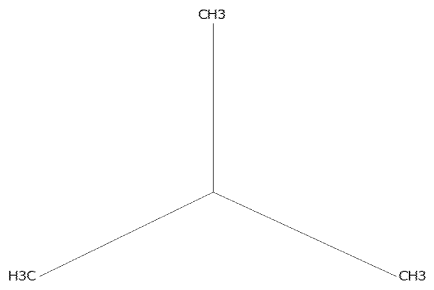


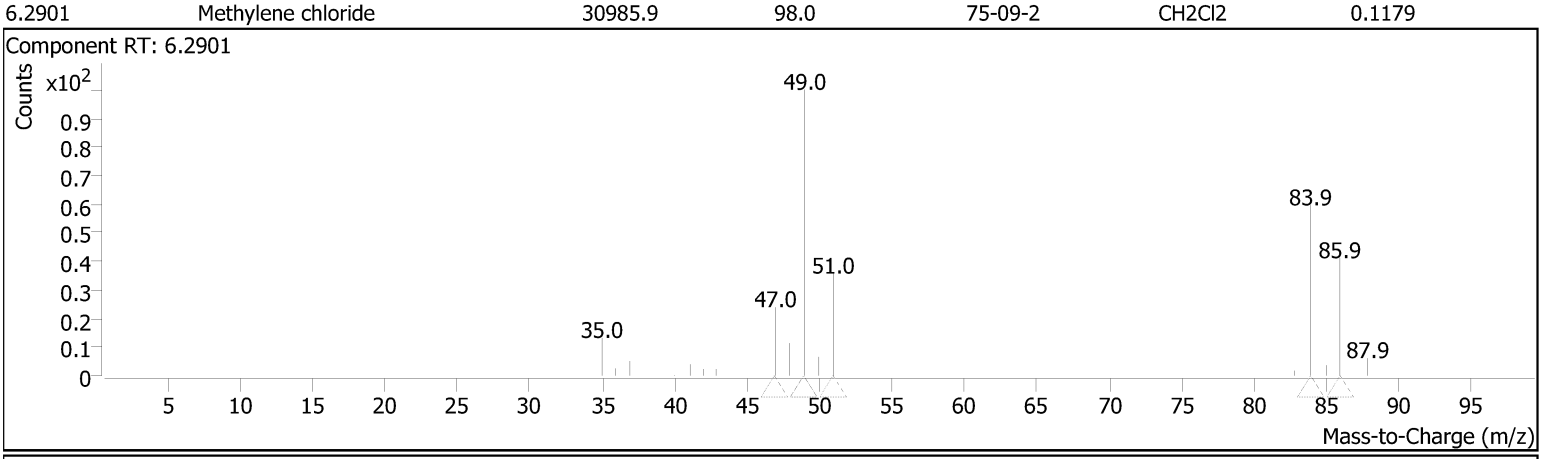



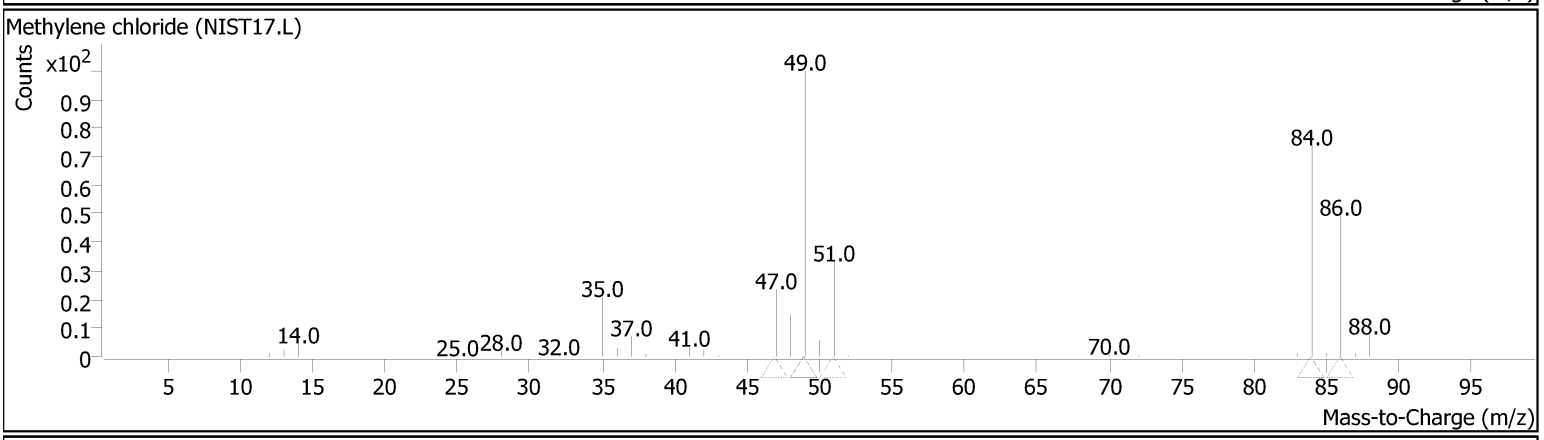



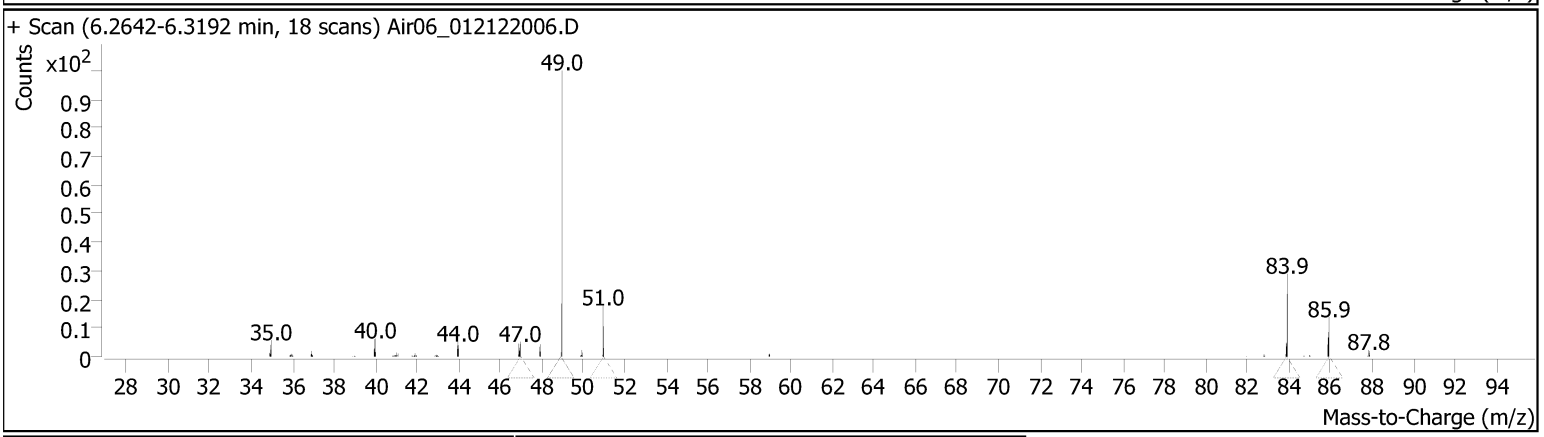



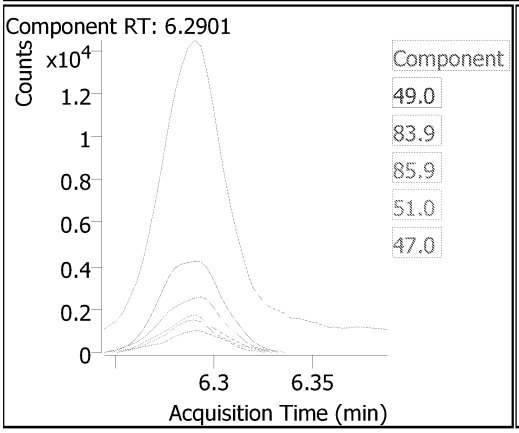



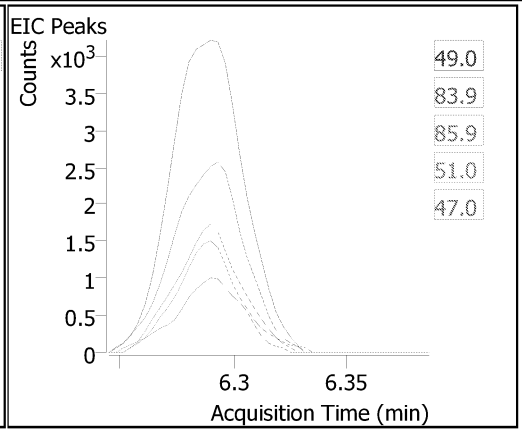
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.2901 | Methylene chloride | 30985.9 | 98.0 | 75-09-2 | CH2Cl2 | 0.1179 |

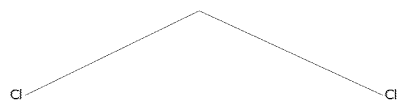


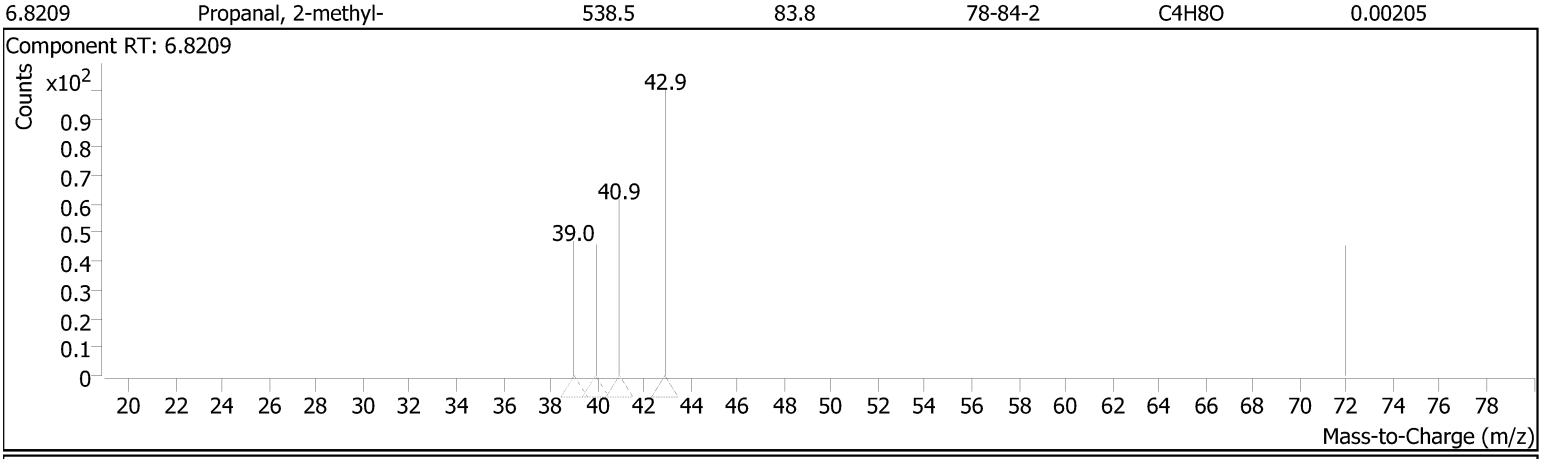



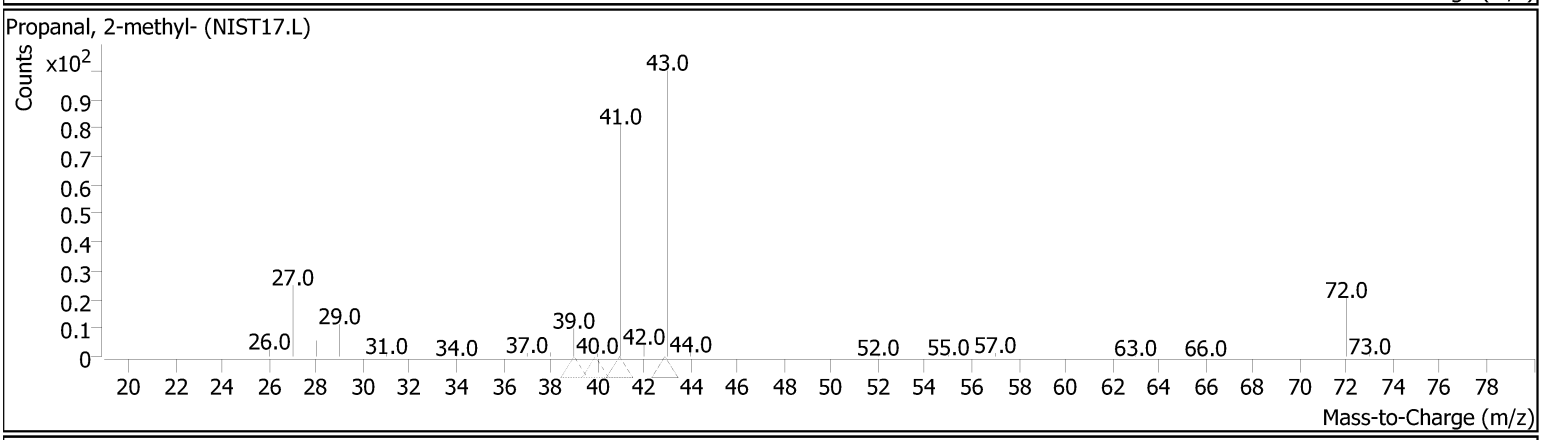



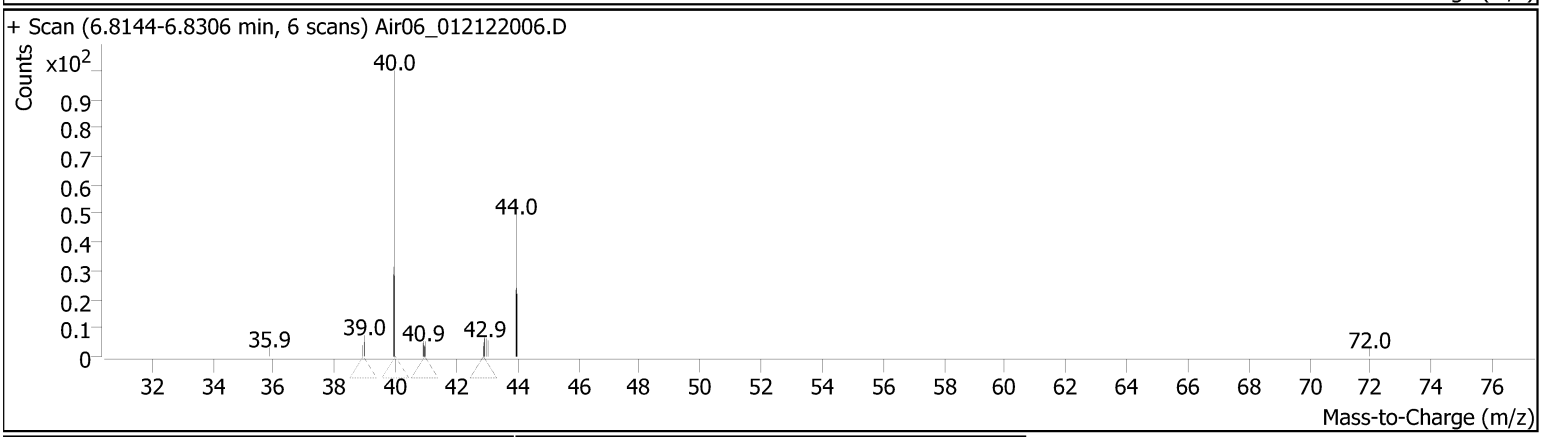



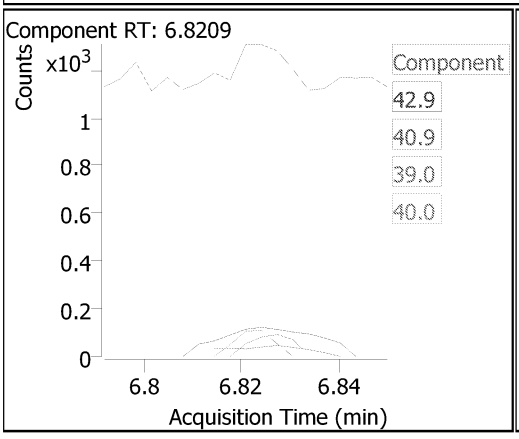



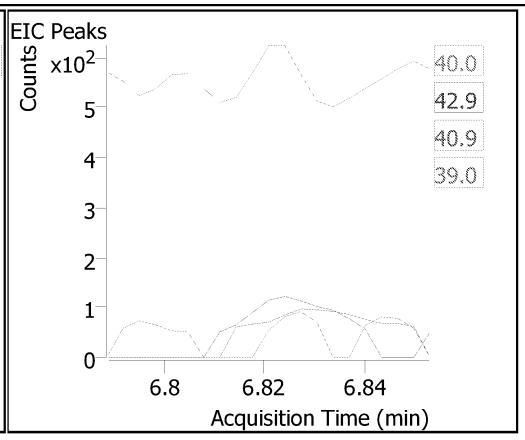
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.8209 | Propanal, 2-methyl- | 538.5 | 83.8 | 78-84-2 | C4H8O | 0.00205 |

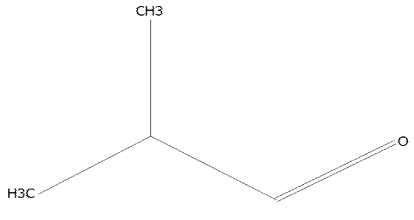


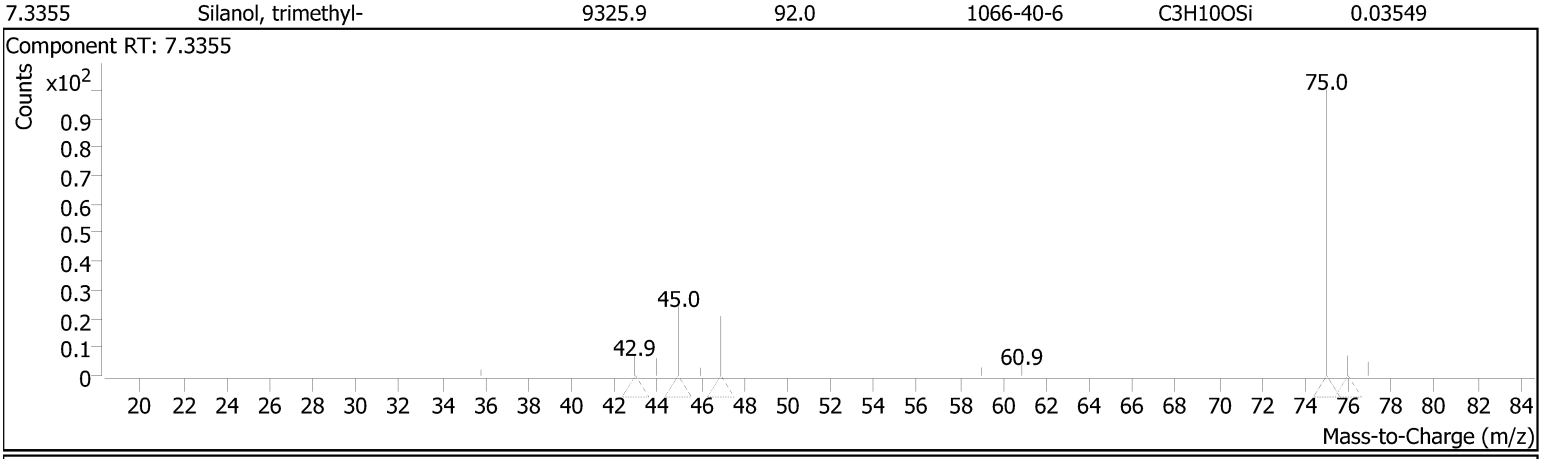



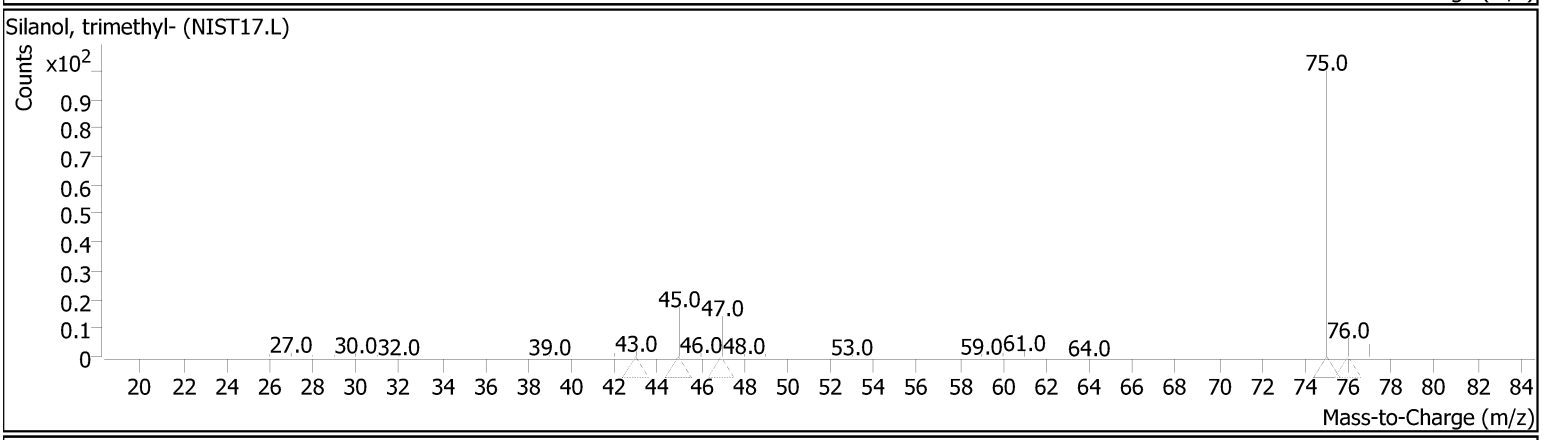



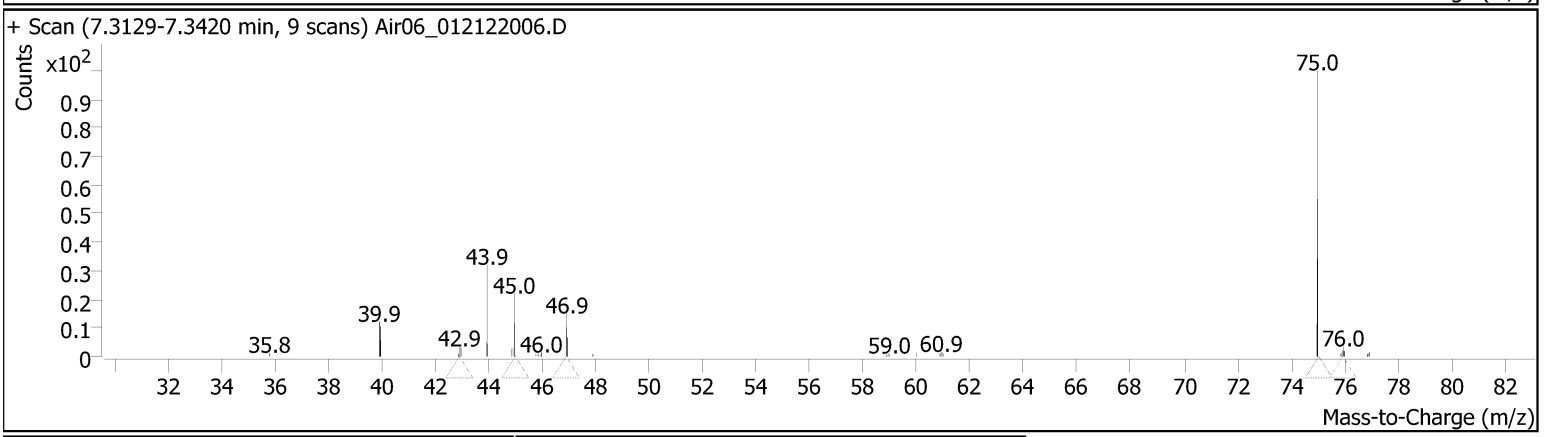



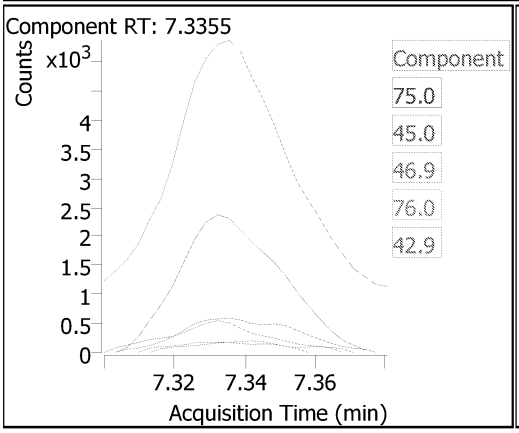



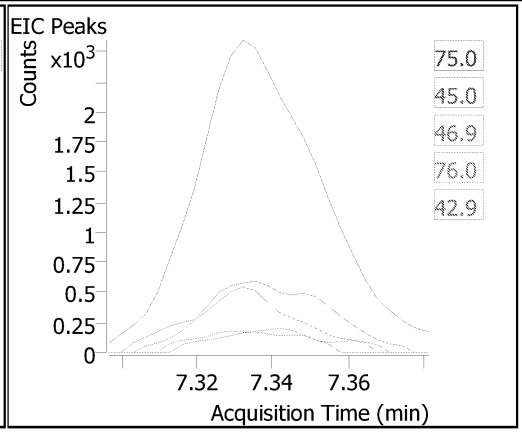
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.3355 | Silanol, trimethyl- | 9325.9 | 92.0 | 1066-40-6 | C3H10OSi | 0.03549 |

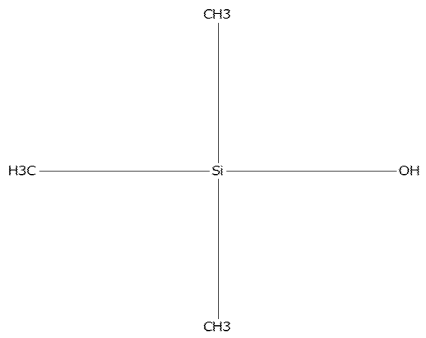


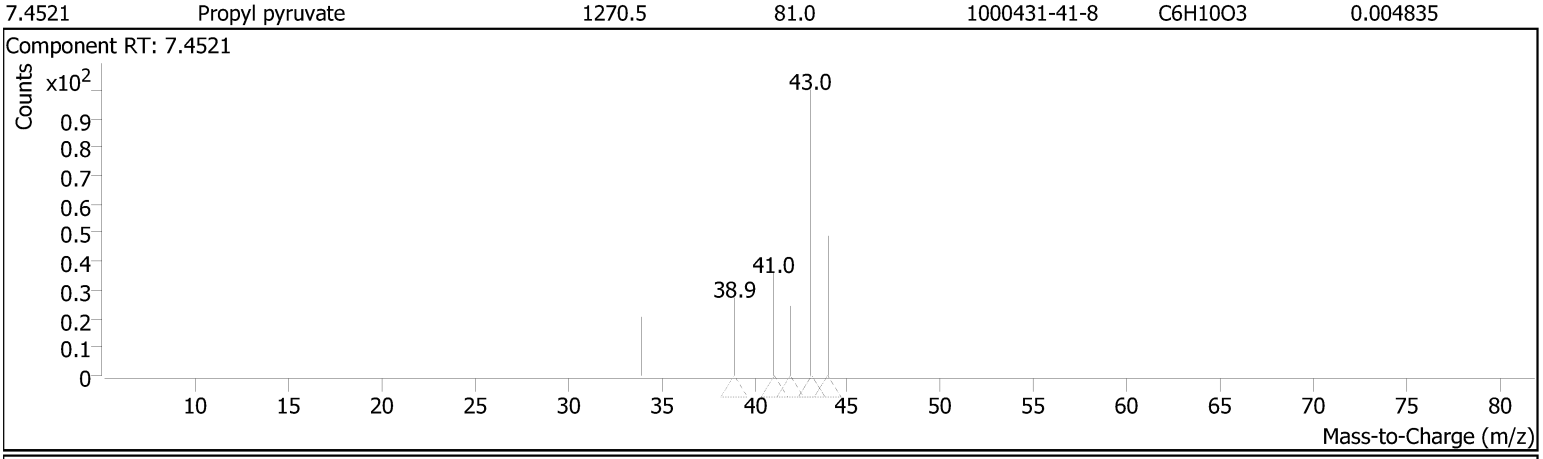



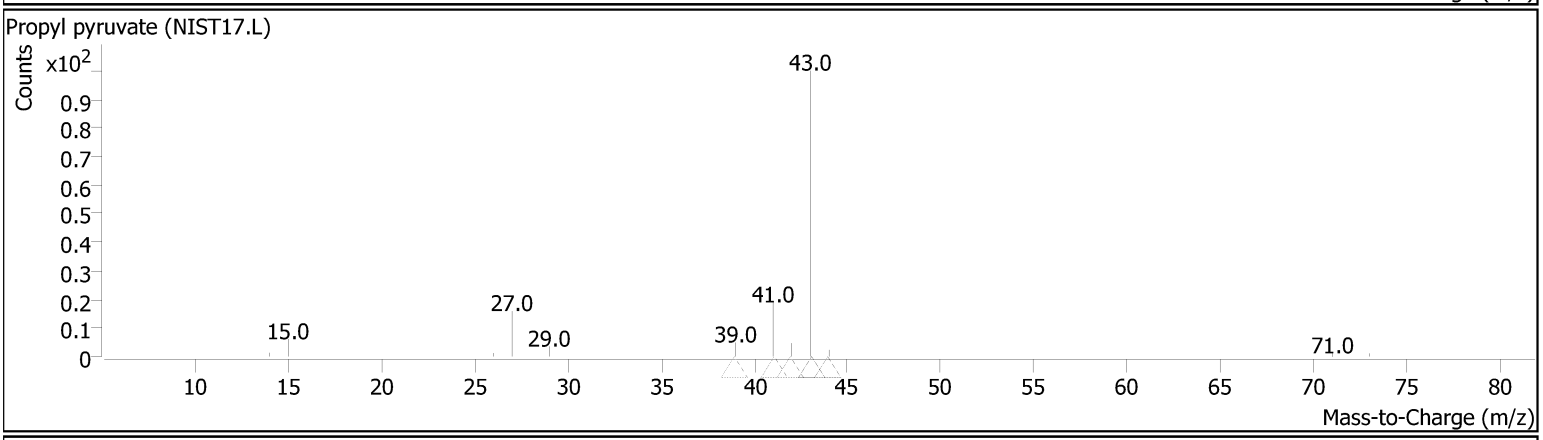



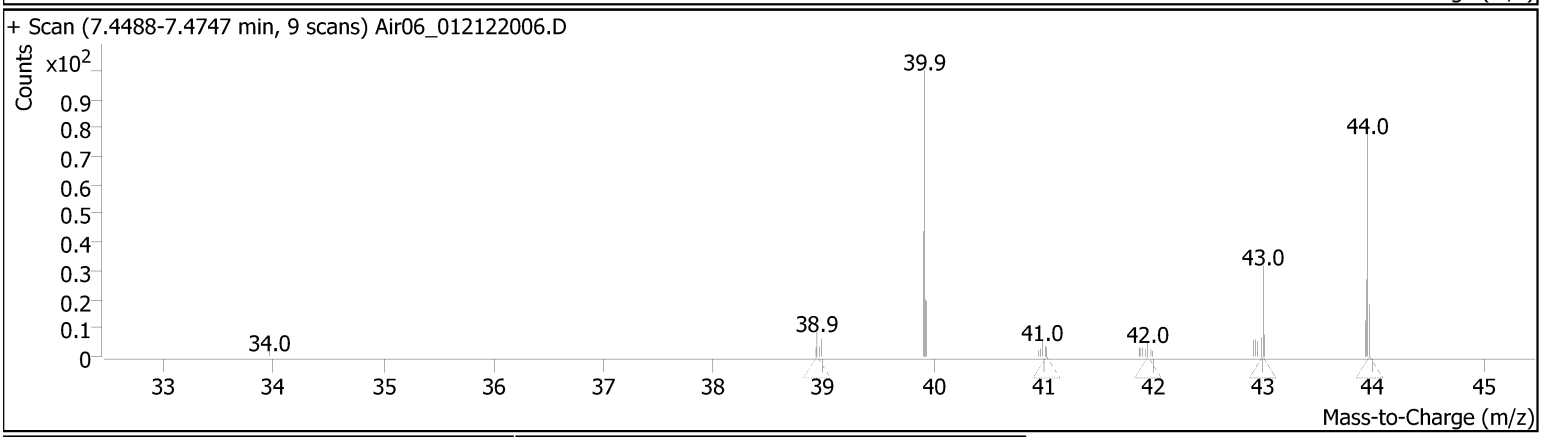



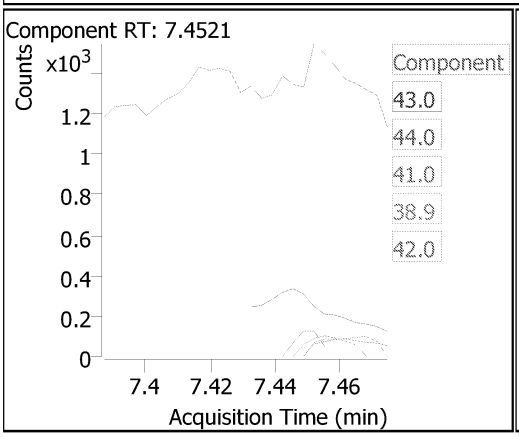



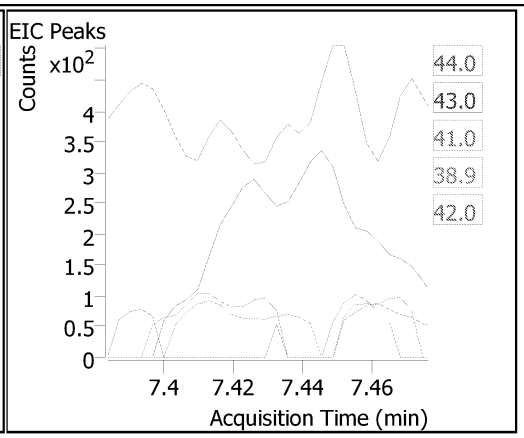
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.4521 | Propyl pyruvate | 1270.5 | 81.0 | 1000431-41-8 | C6H10O3 | 0.004835 |

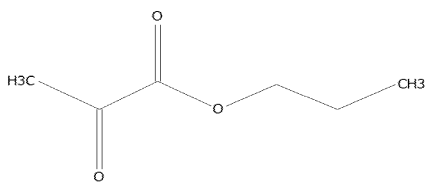


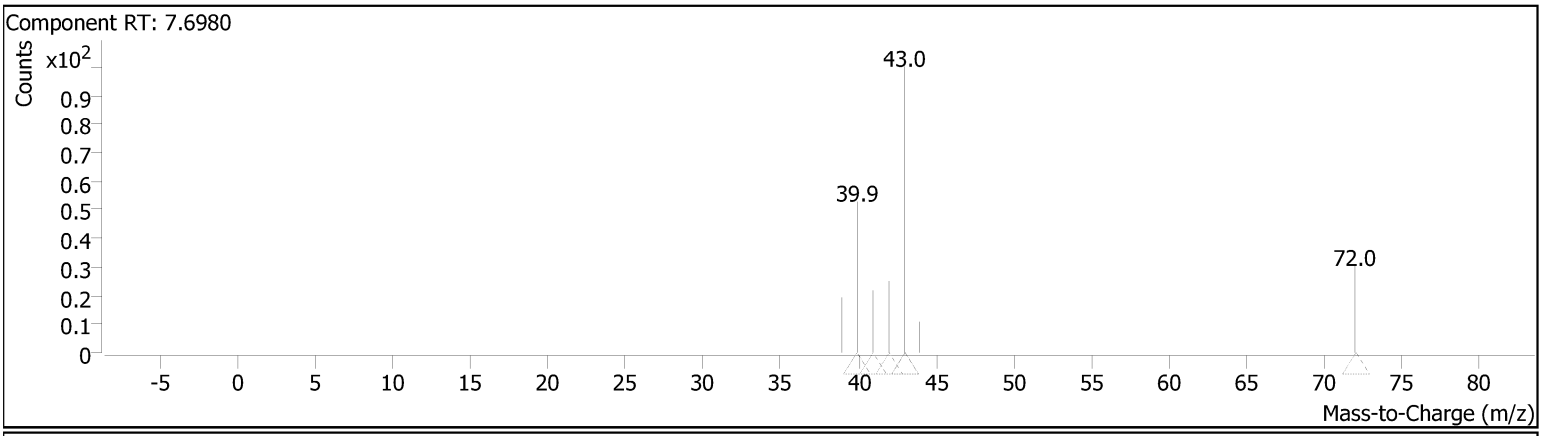



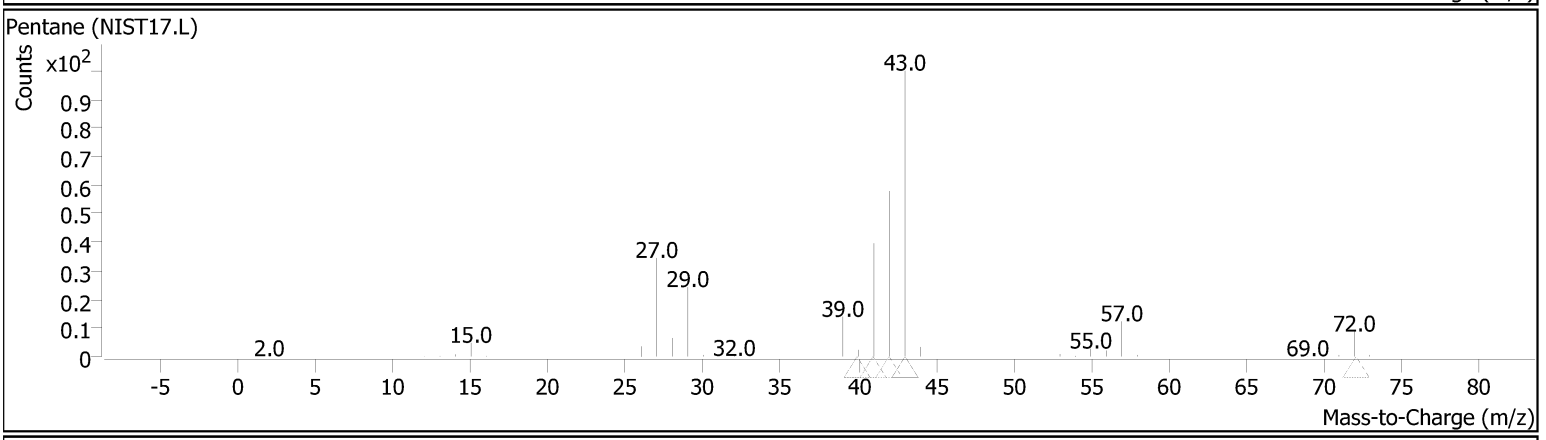



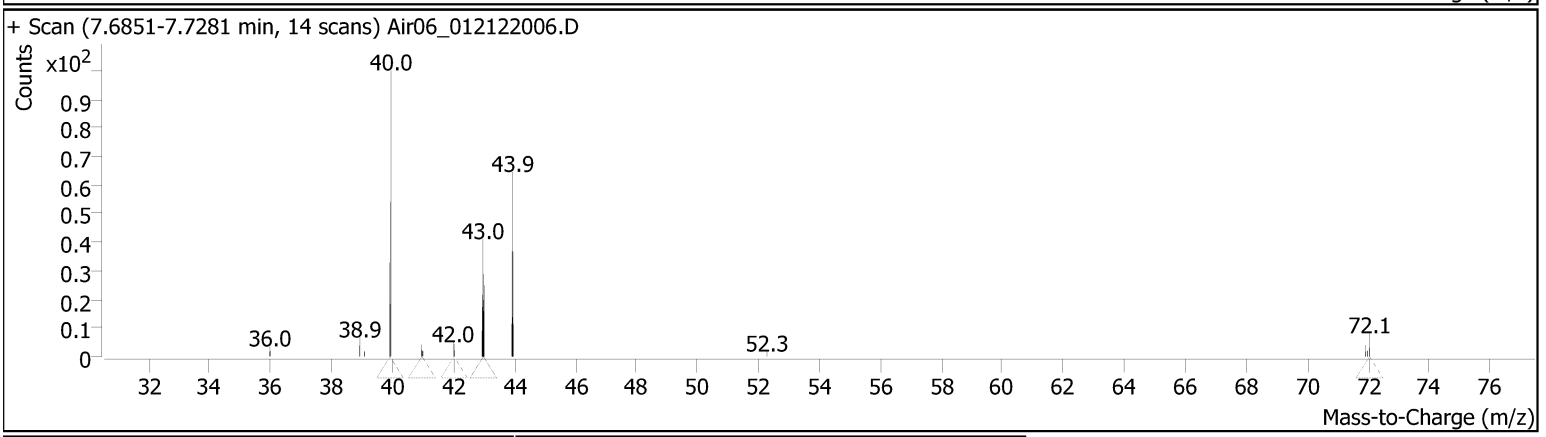



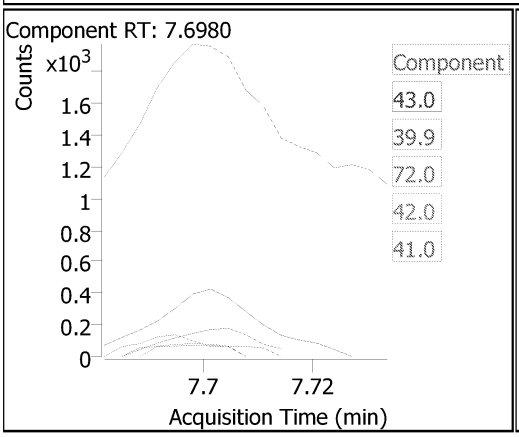



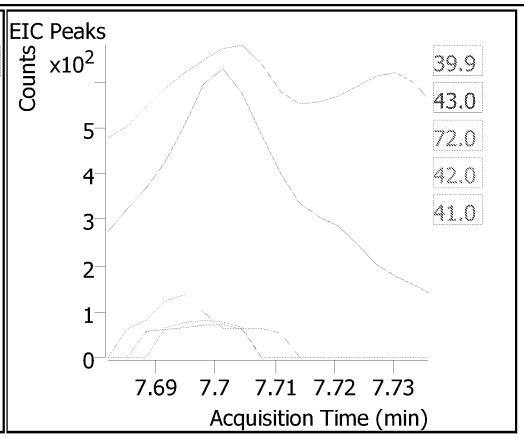
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.6980 | Pentane | 1377.8 | 75.8 | 109-66-0 | C5H12 | 0.005243 |

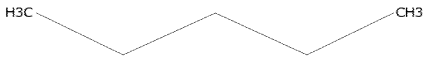


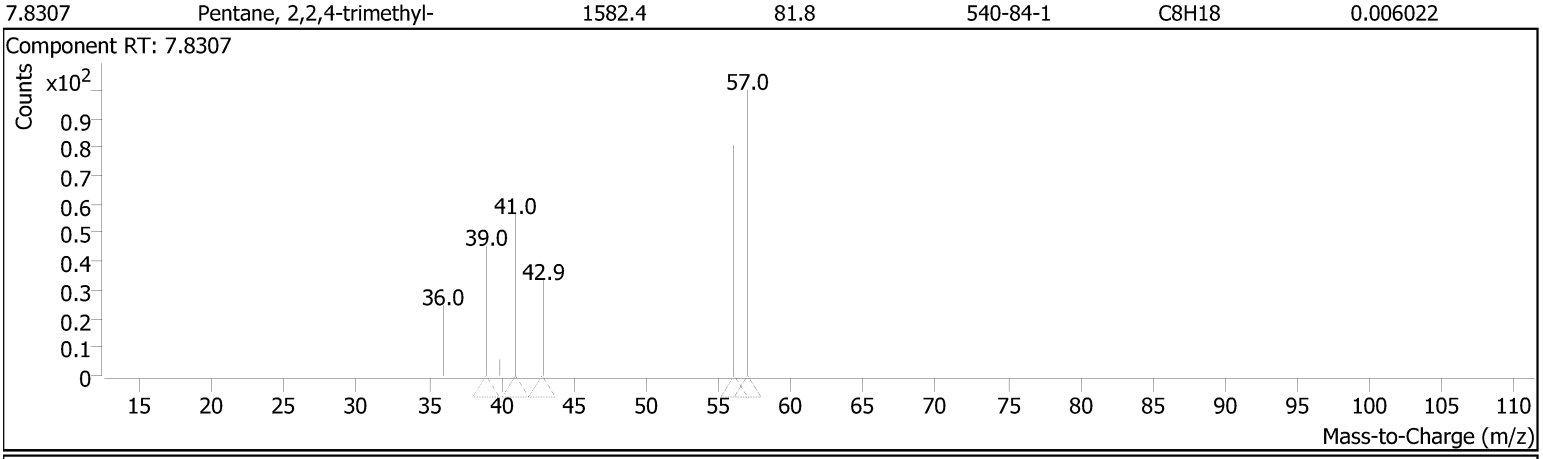



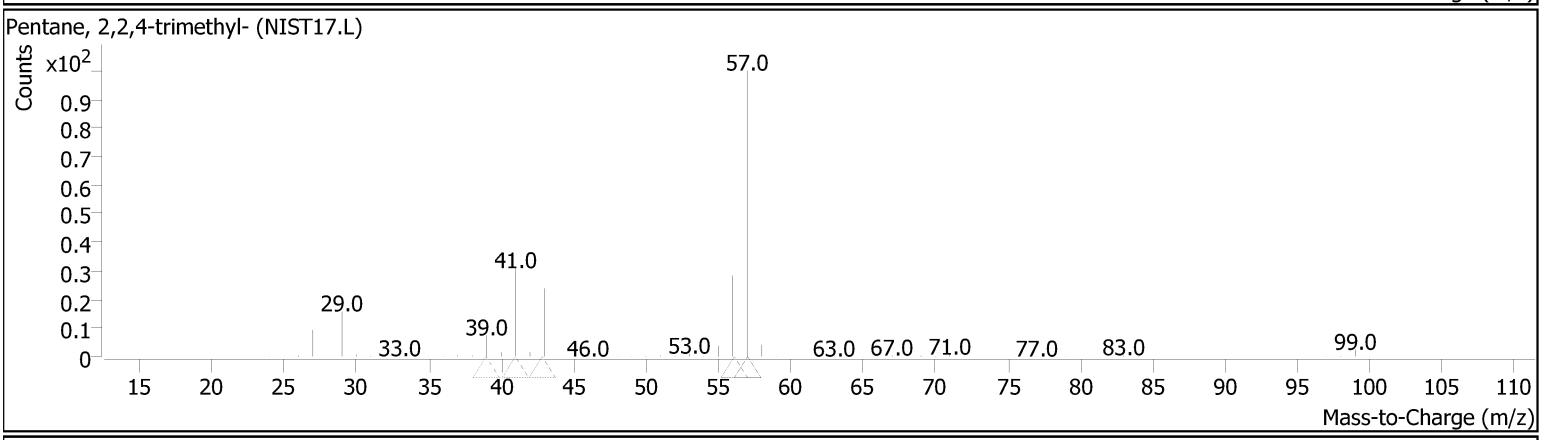



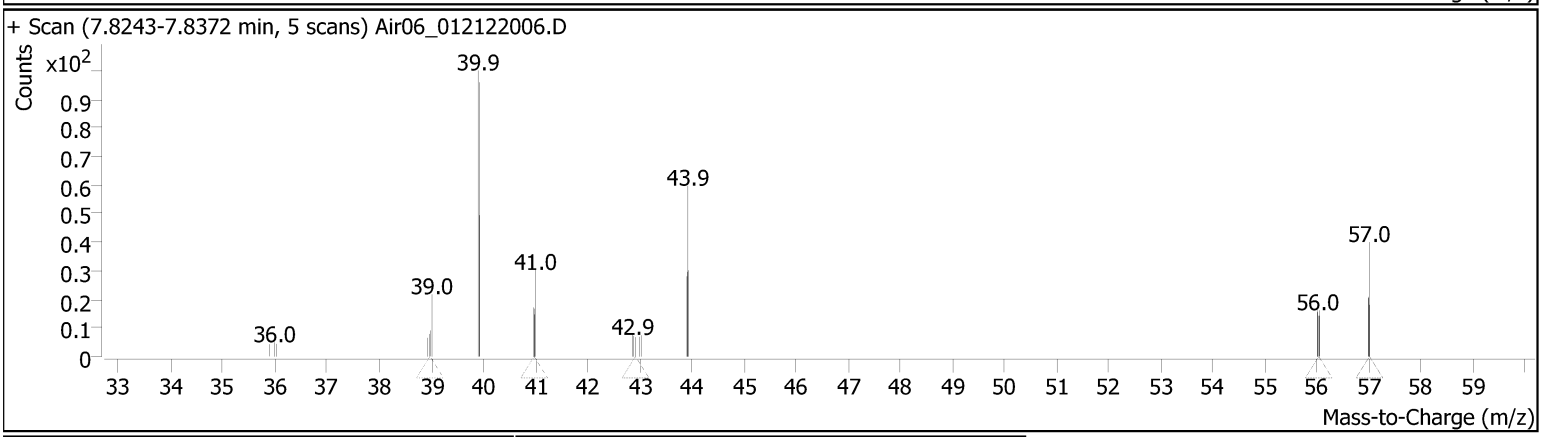



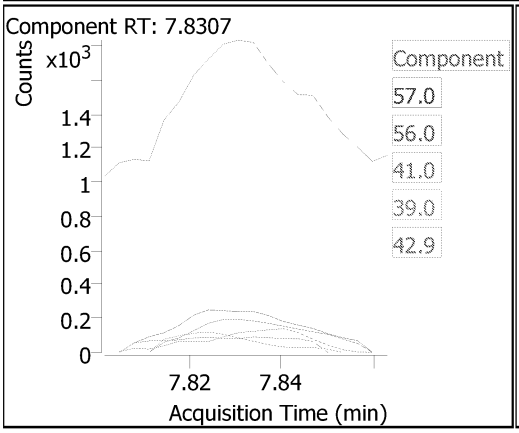



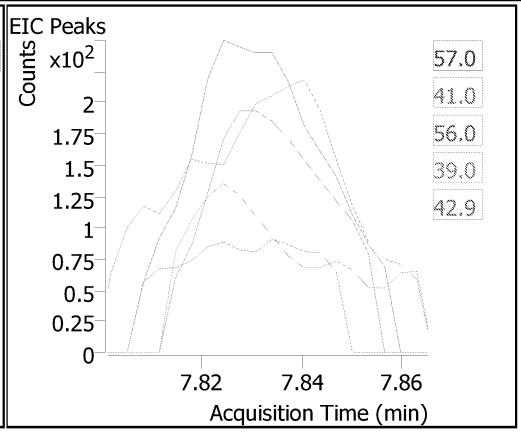
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.8307 | Pentane, 2,2,4-trimethyl- | 1582.4 | 81.8 | 540-84-1 | C8H18 | 0.006022 |

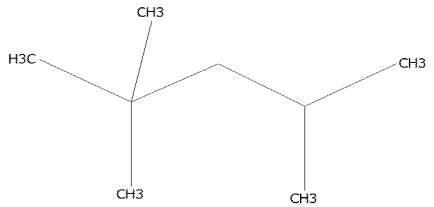


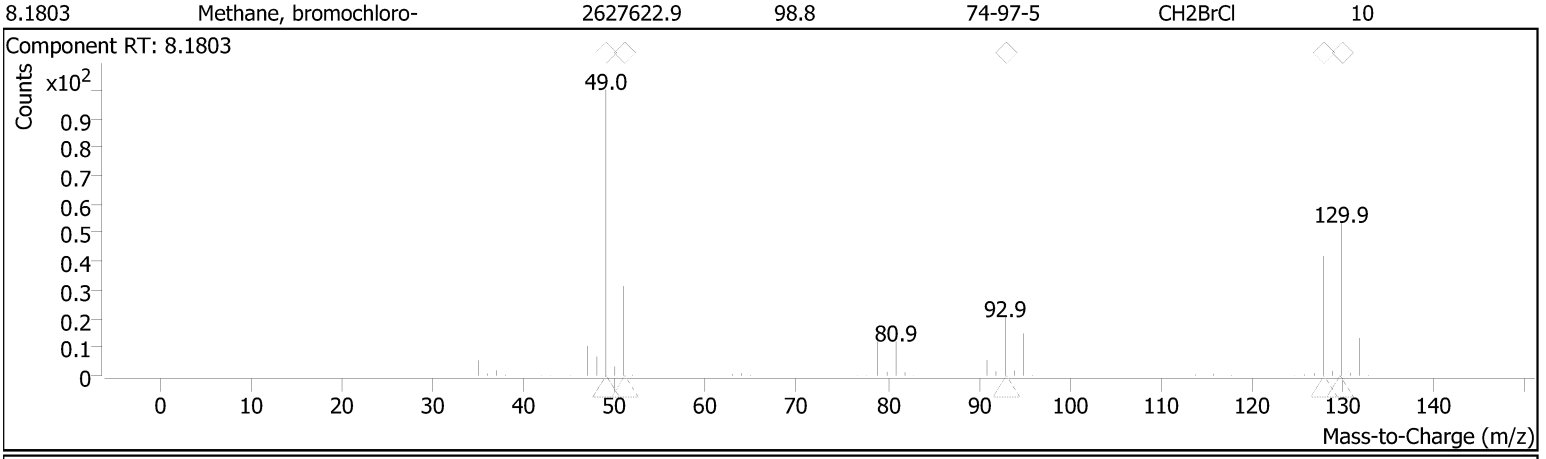



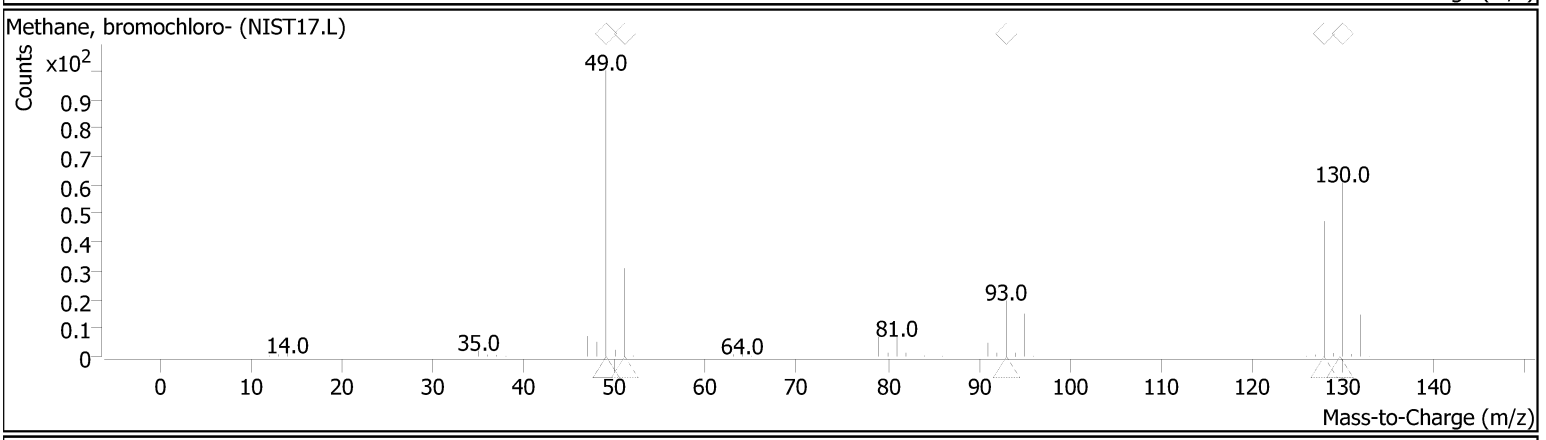



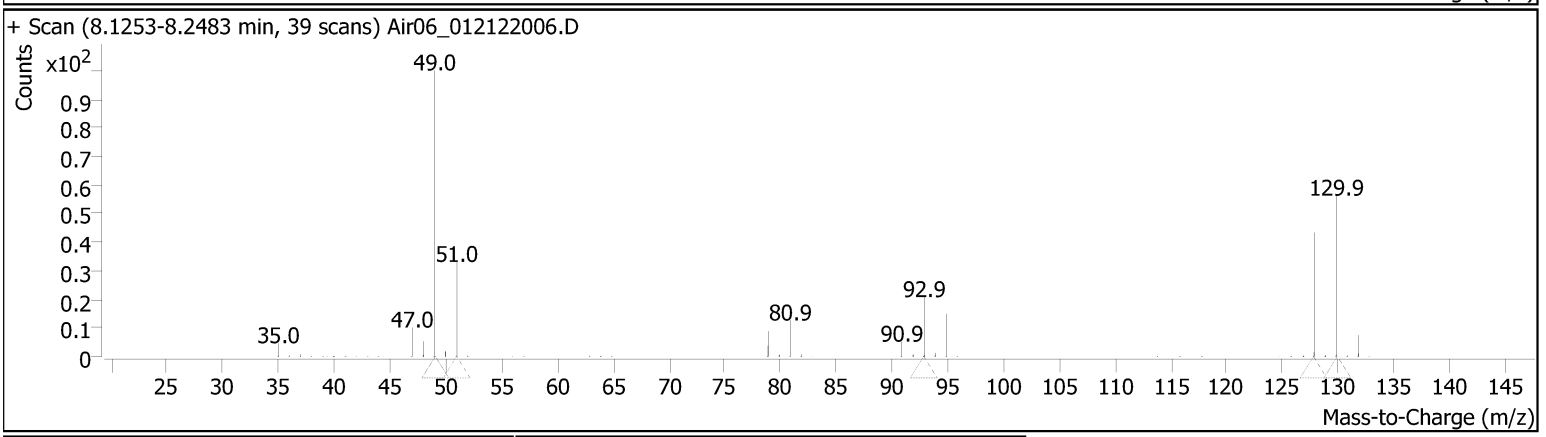



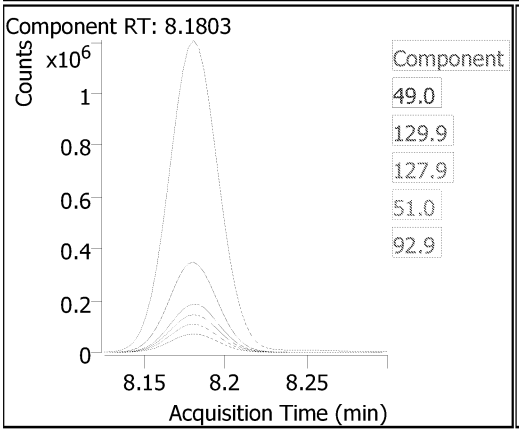



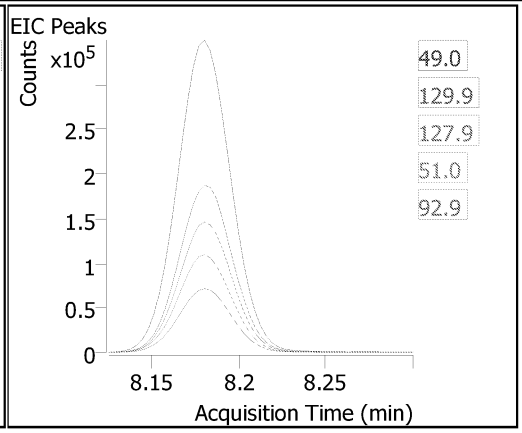
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.1803 | Methane, bromochloro- | 2627622.9 | 98.8 | 74-97-5 | CH2BrCl | 10 |

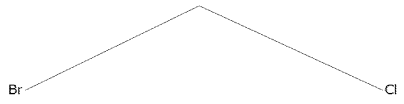


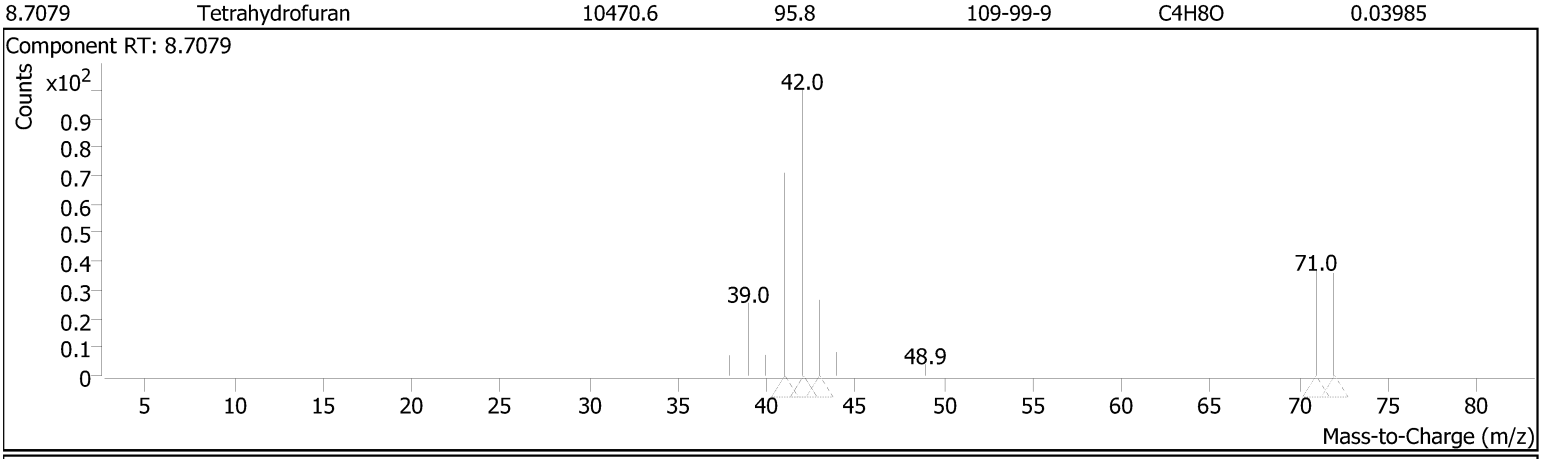



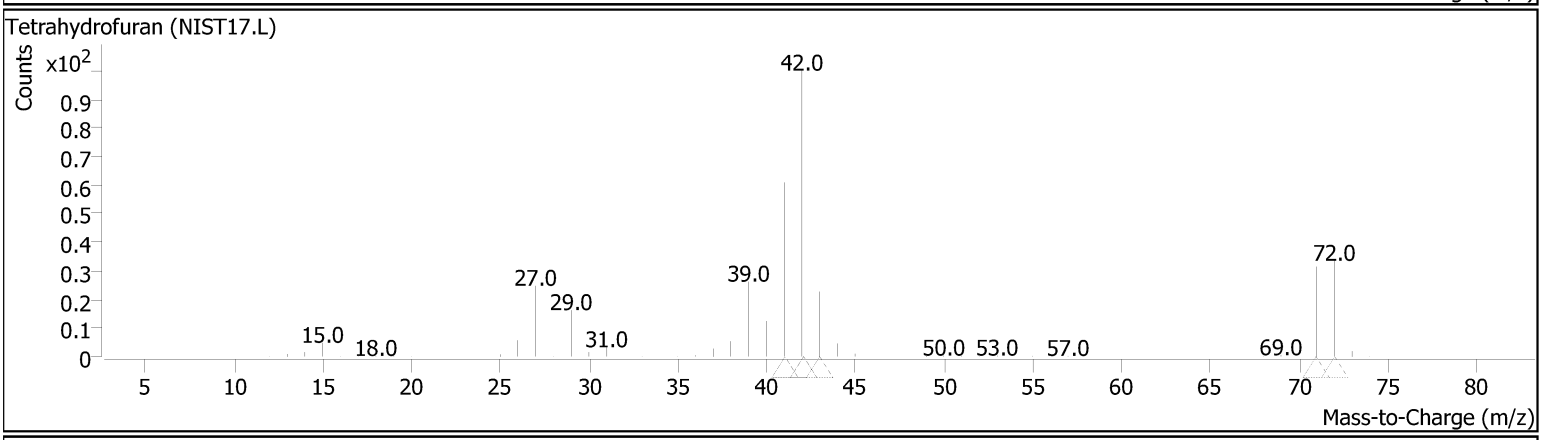



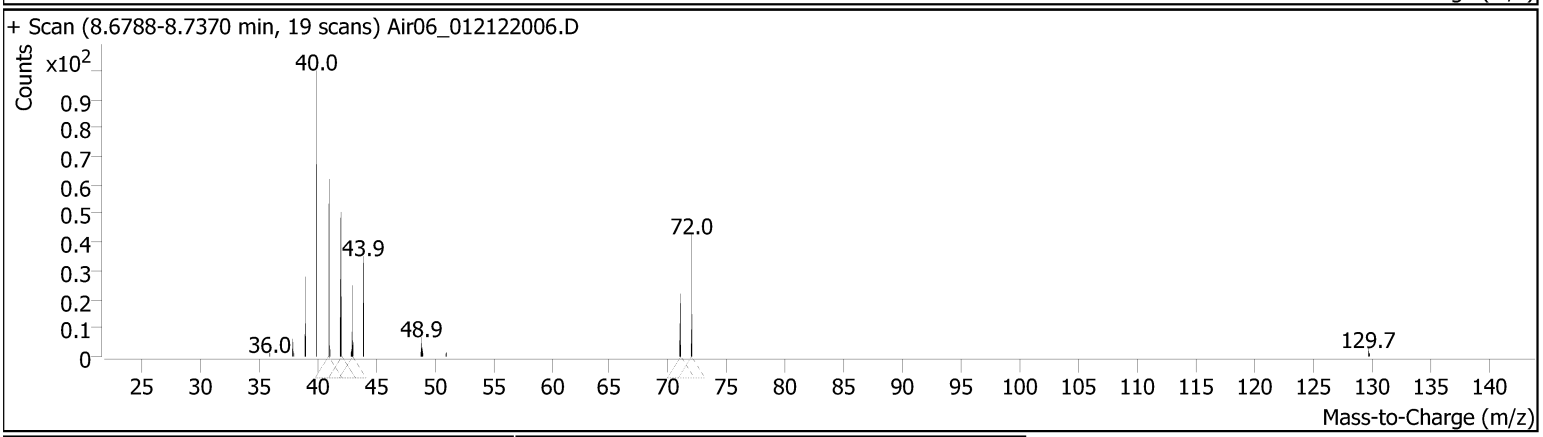



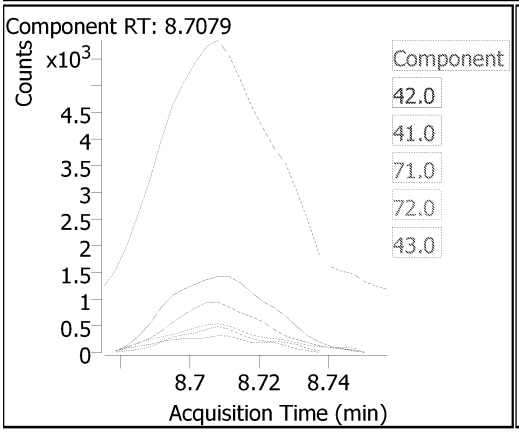



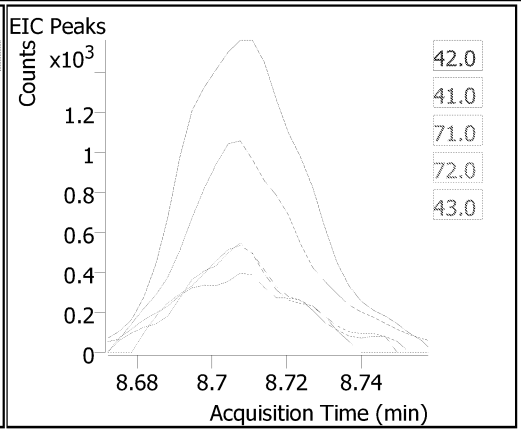
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.7079 | Tetrahydrofuran | 10470.6 | 95.8 | 109-99-9 | C4H8O | 0.03985 |

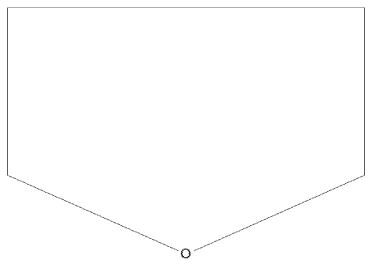


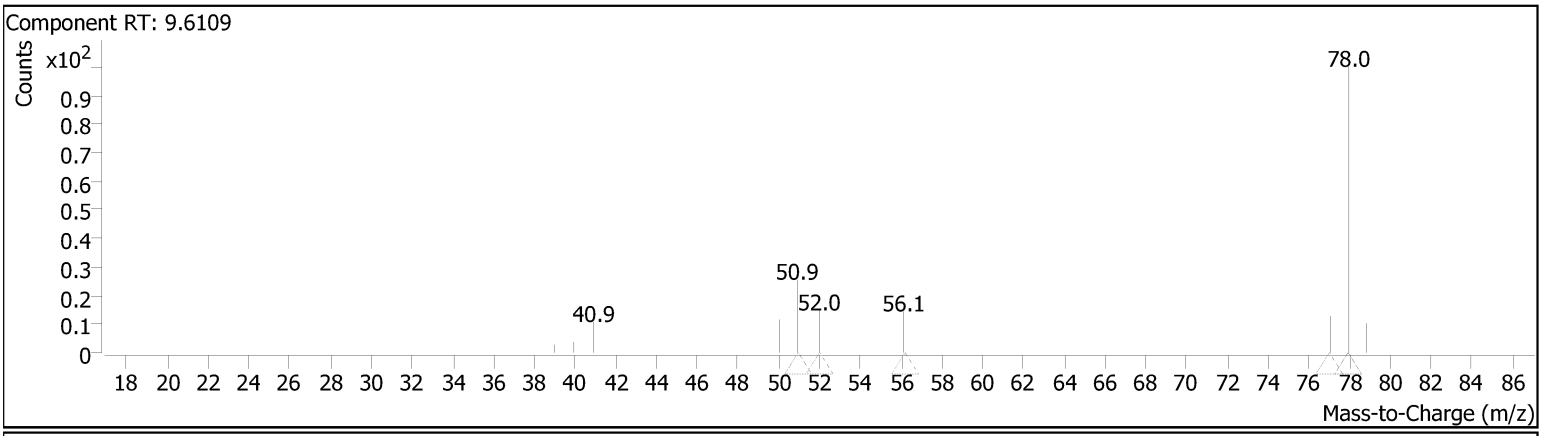



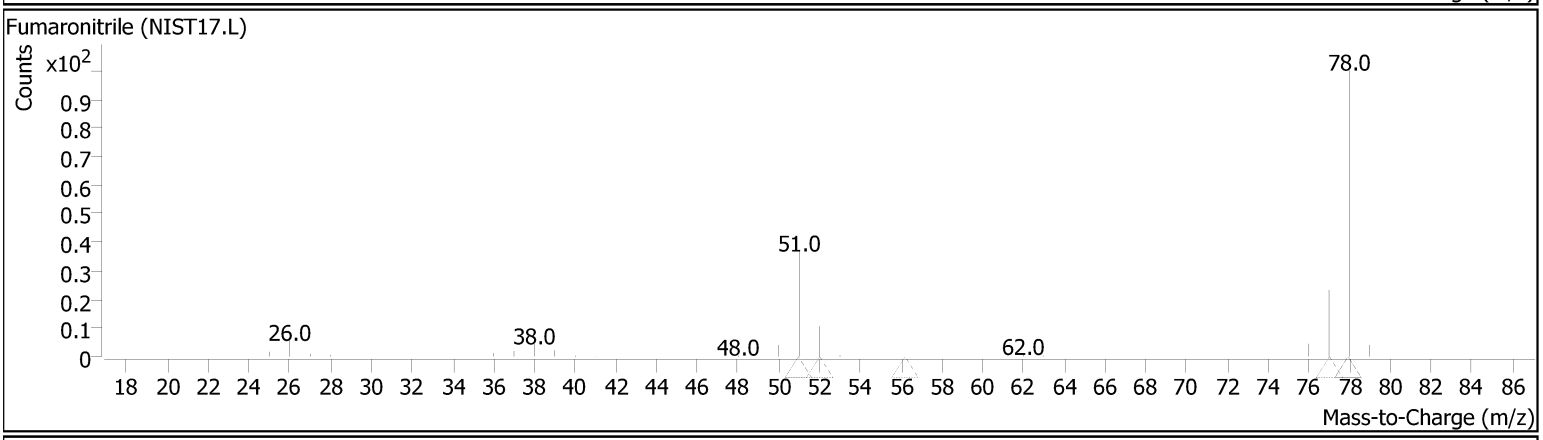



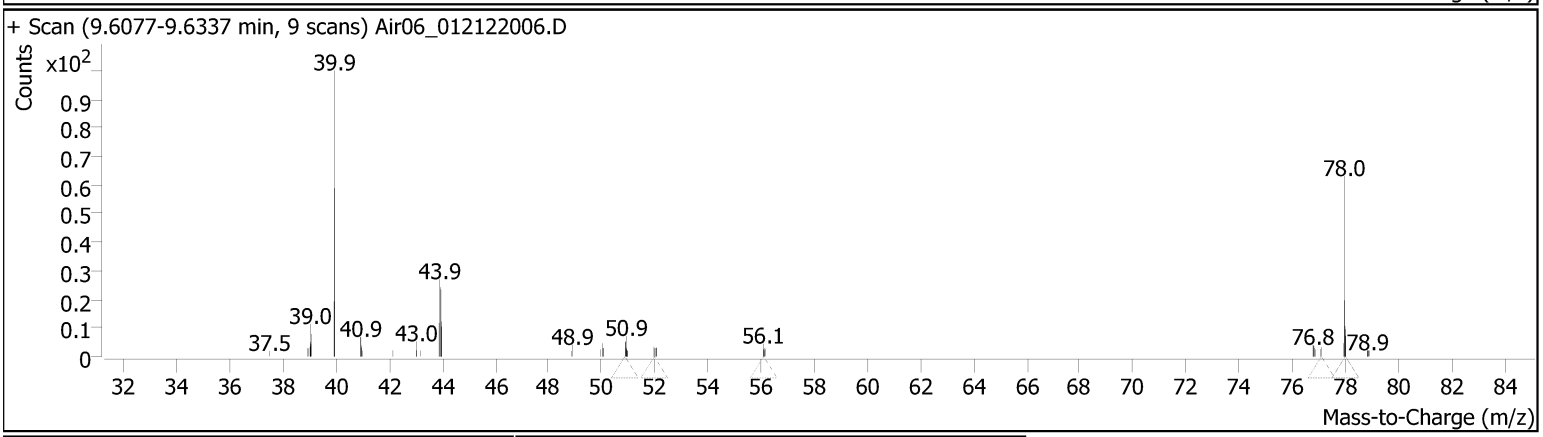



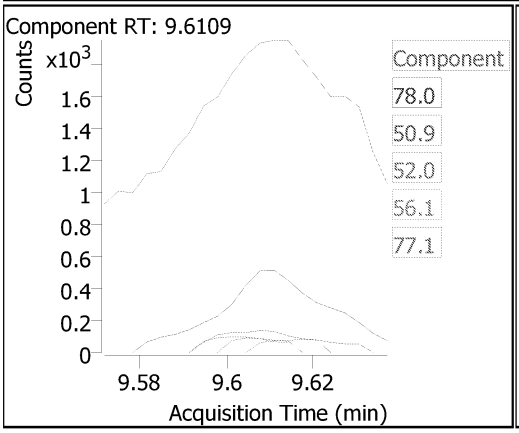



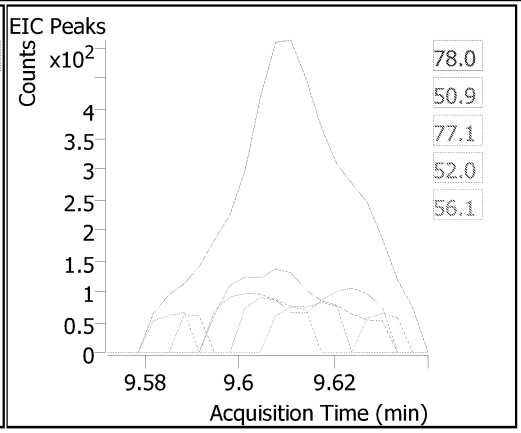
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.6109 | Fumaronitrile | 2468.7 | 83.1 | 764-42-1 | C4H2N2 | 0.005889 |

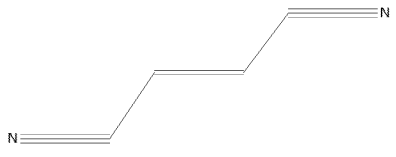


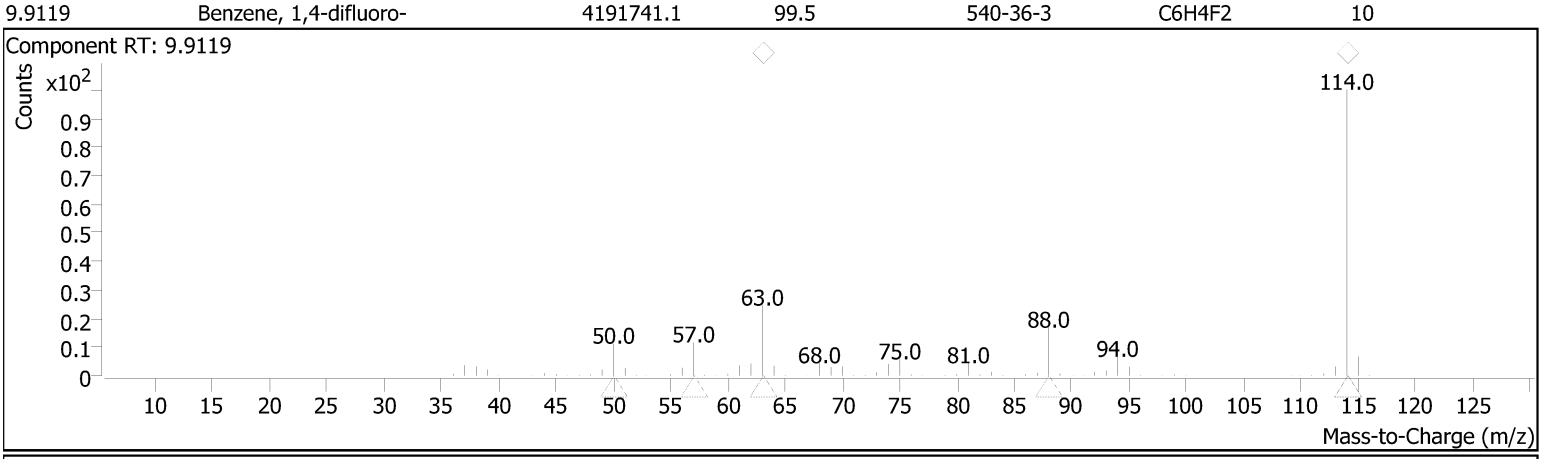



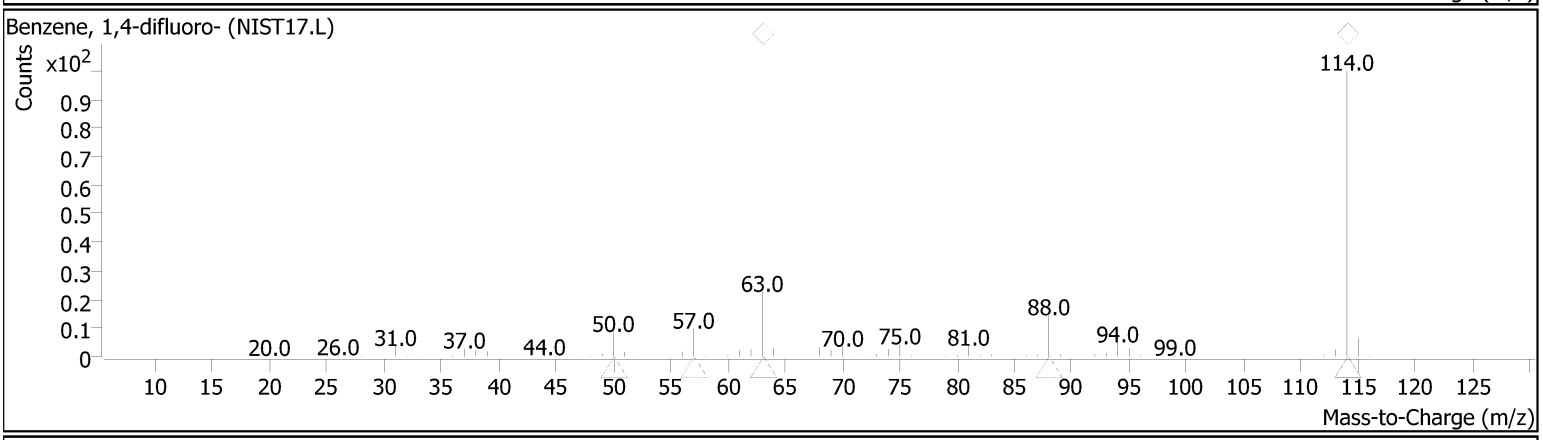



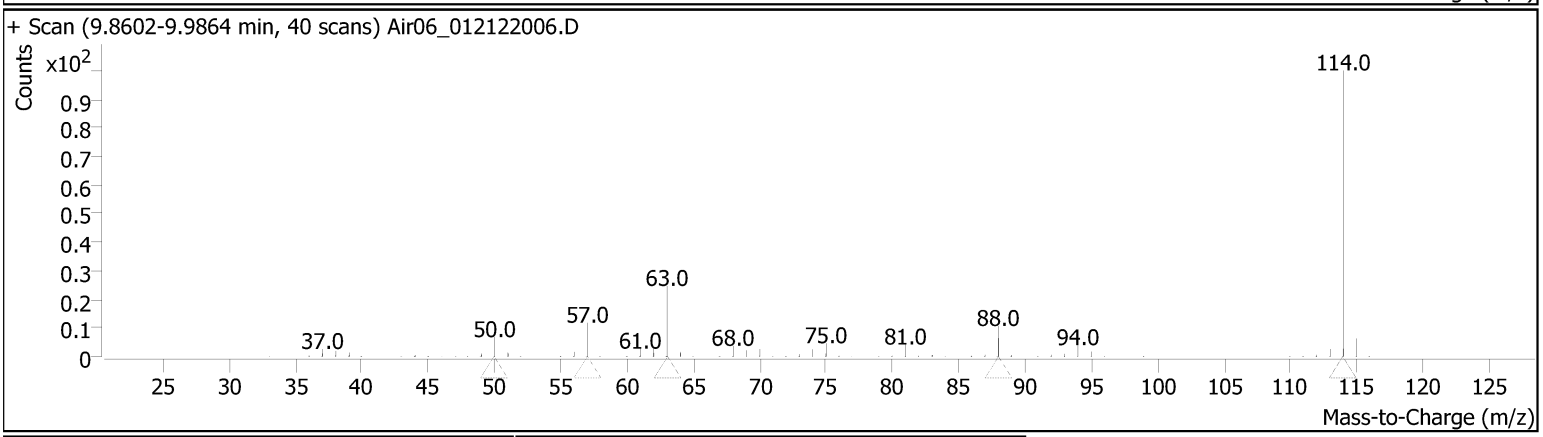



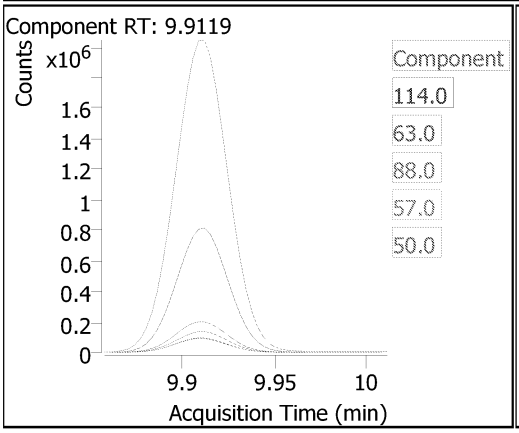



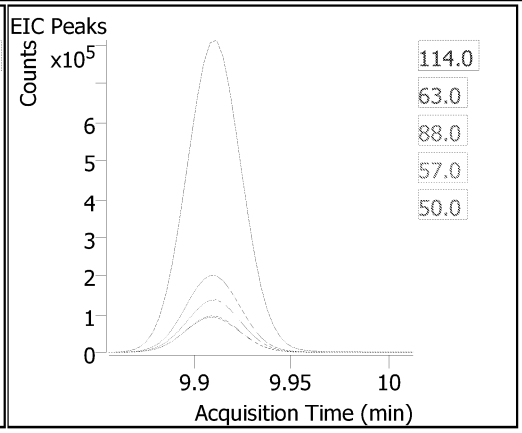
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.9119 | Benzene, 1,4-difluoro- | 4191741.1 | 99.5 | 540-36-3 | C6H4F2 | 10 |

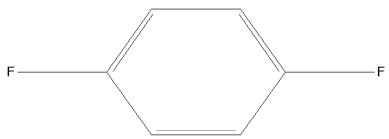


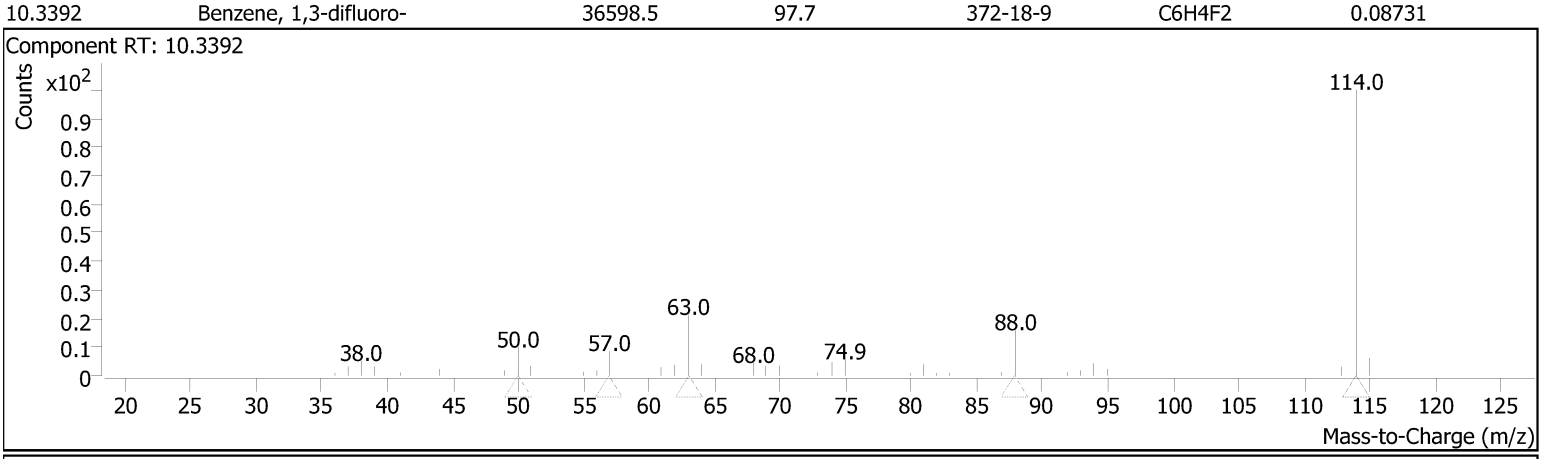



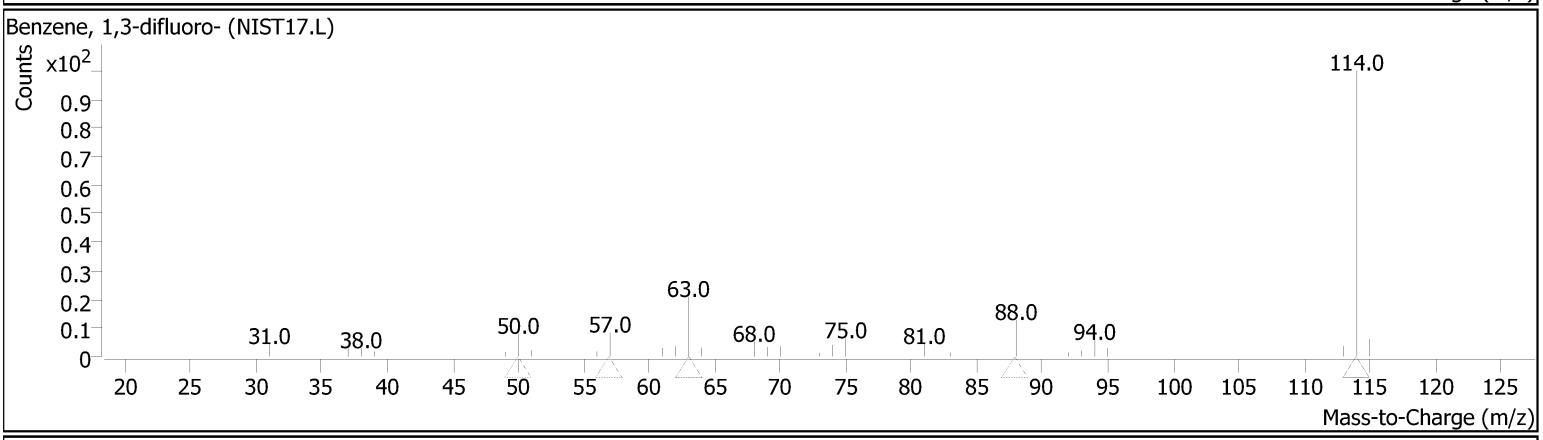



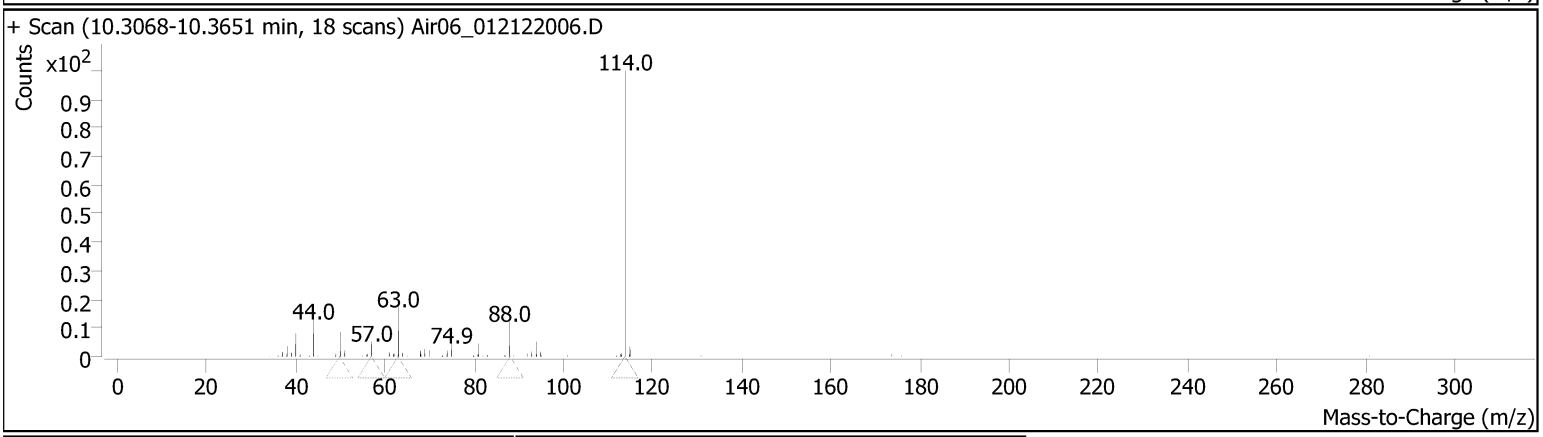



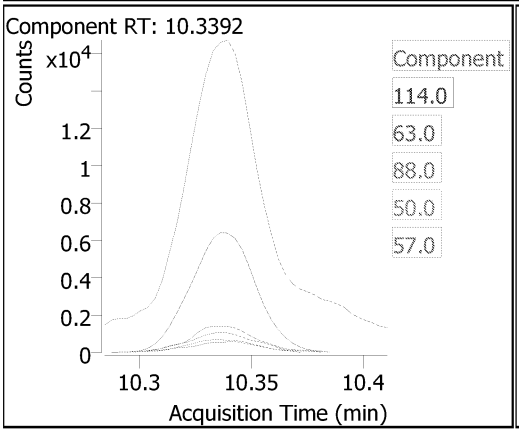



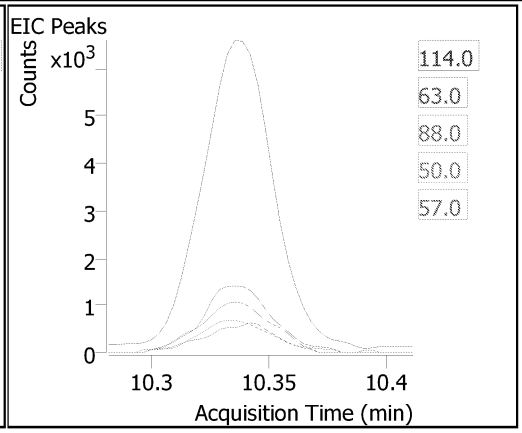
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.3392 | Benzene, 1,3-difluoro- | 36598.5 | 97.7 | 372-18-9 | C6H4F2 | 0.08731 |

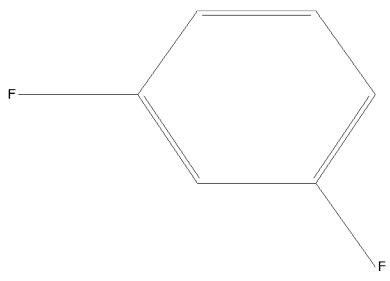


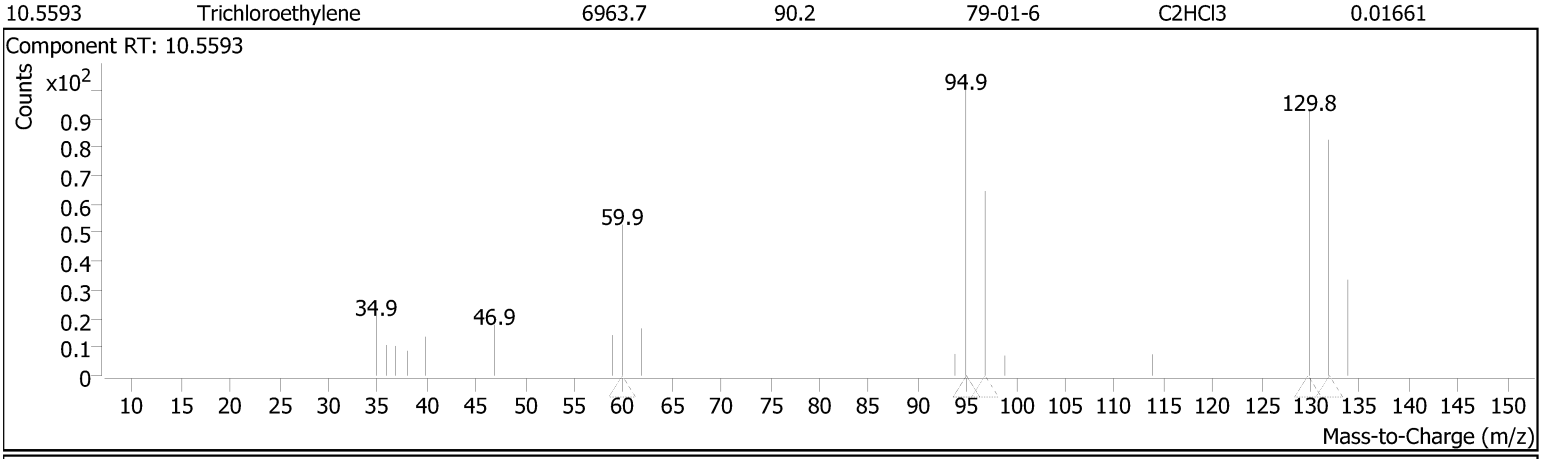



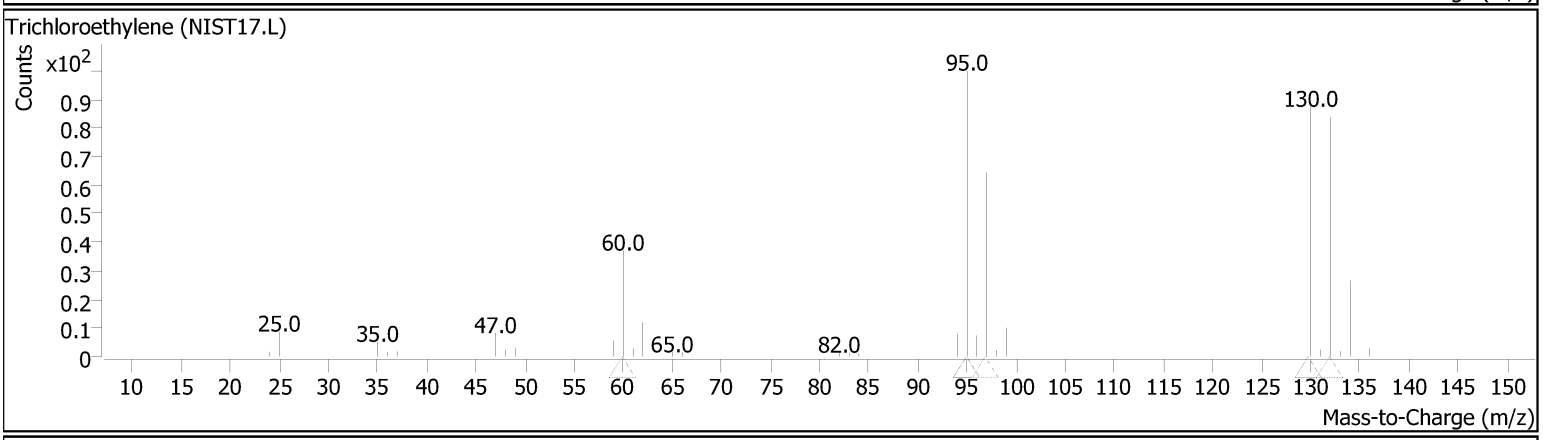



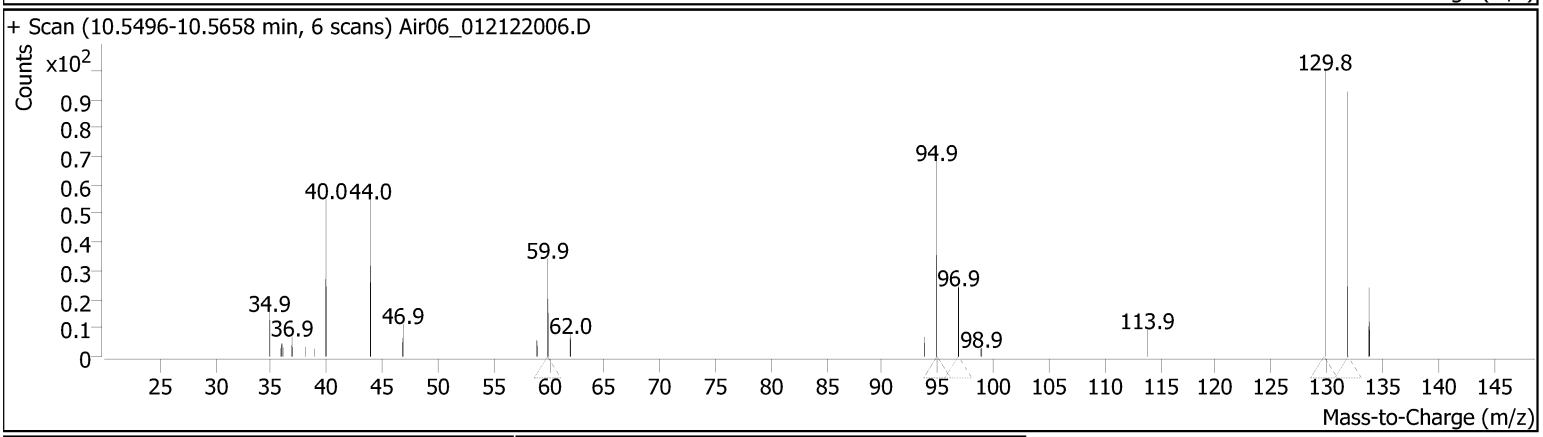



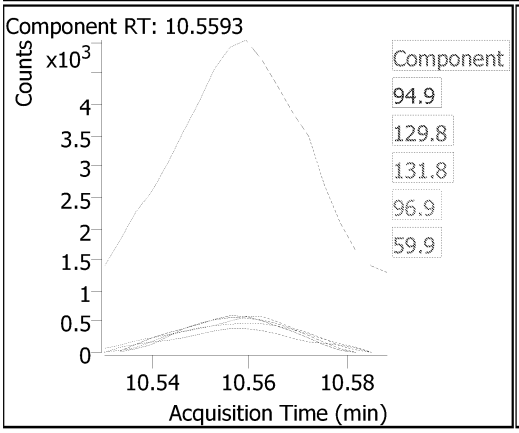



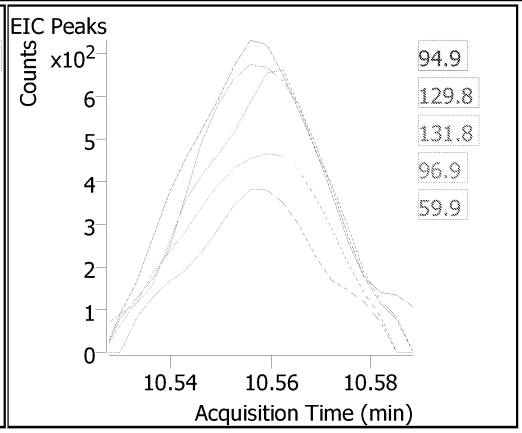
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.5593 | Trichloroethylene | 6963.7 | 90.2 | 79-01-6 | C2HCl3 | 0.01661 |

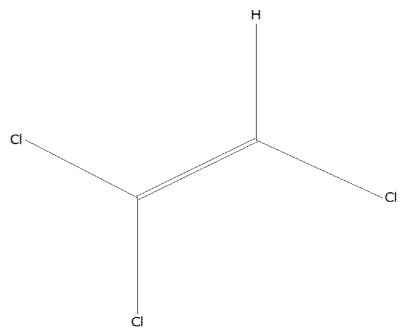


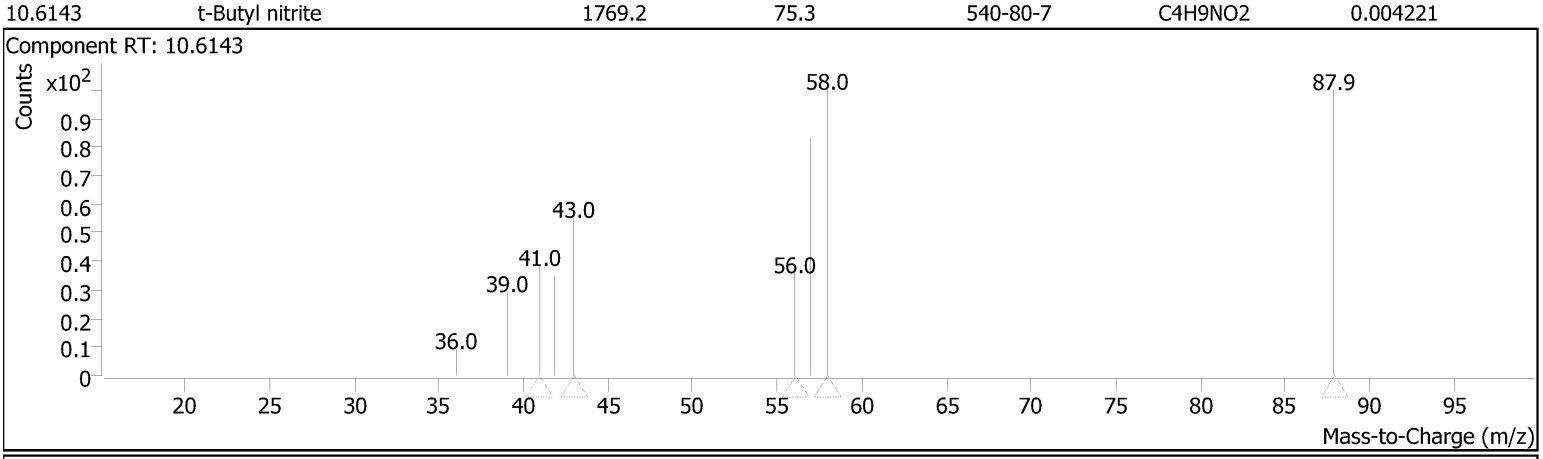



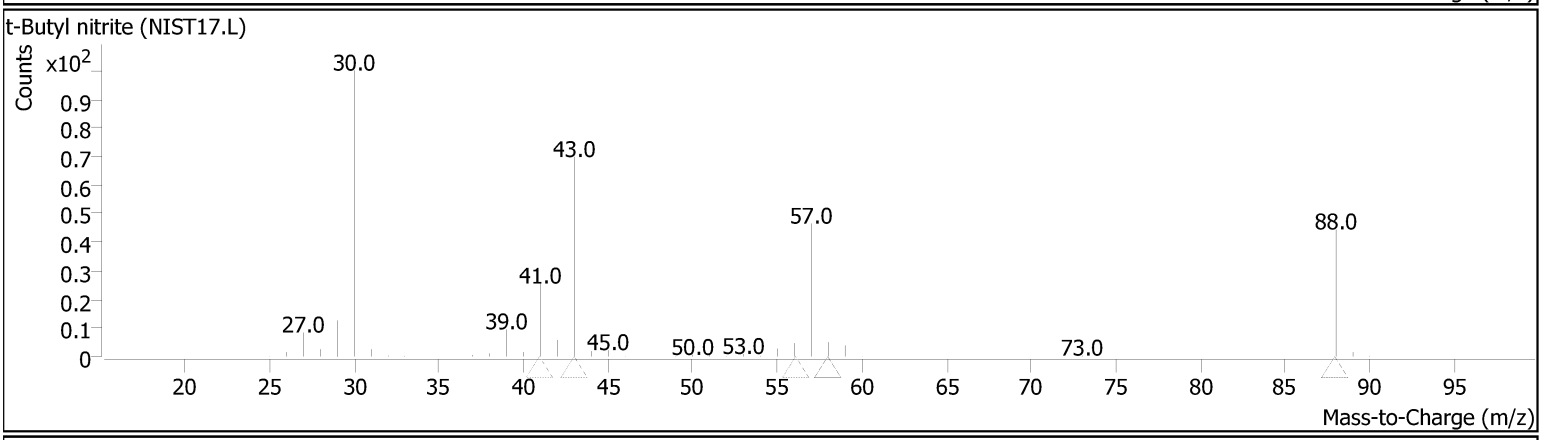



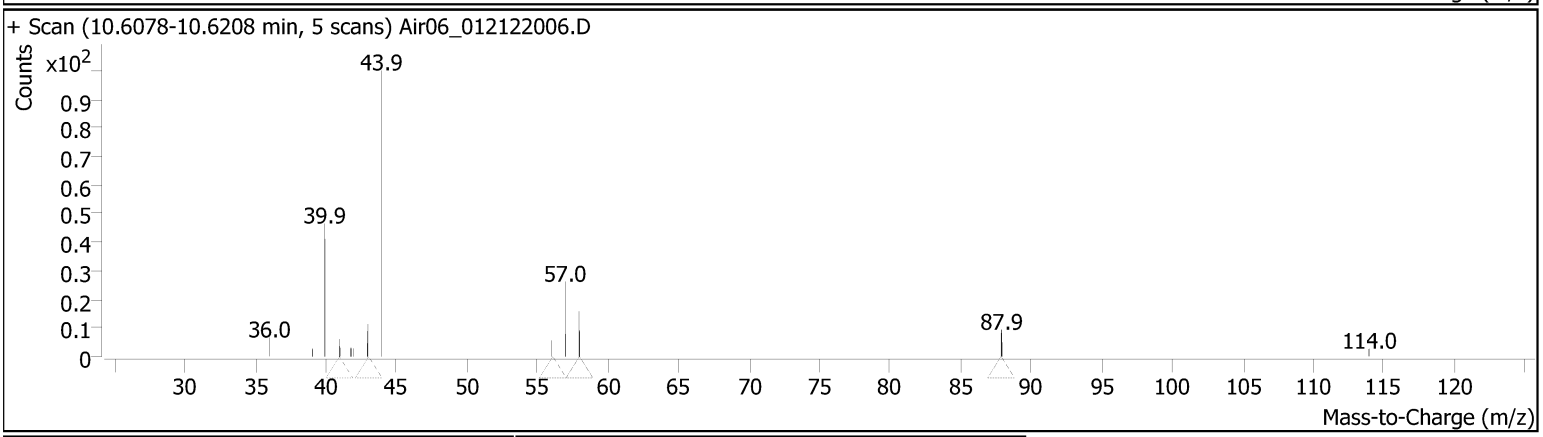



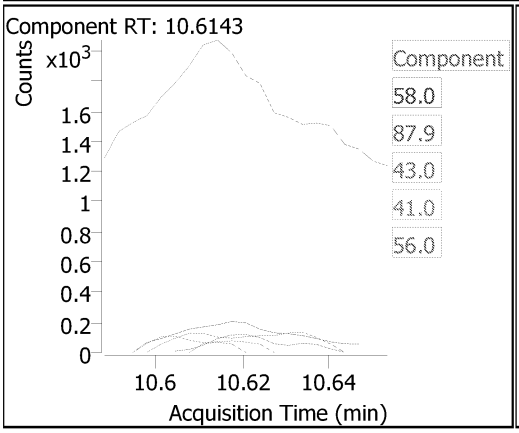



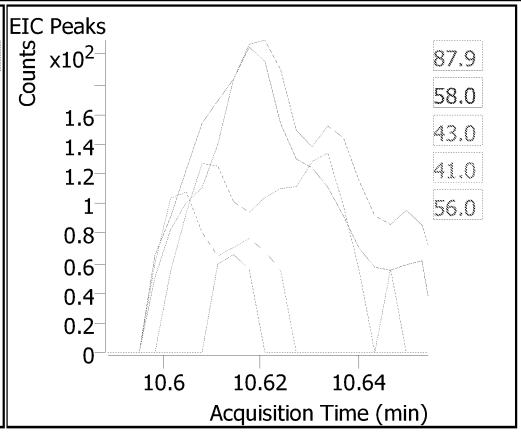
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.6143 | t-Butyl nitrite | 1769.2 | 75.3 | 540-80-7 | C4H9NO2 | 0.004221 |

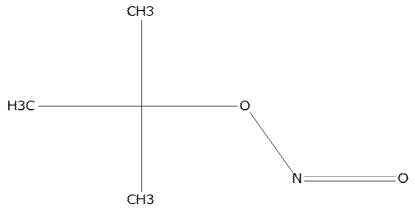


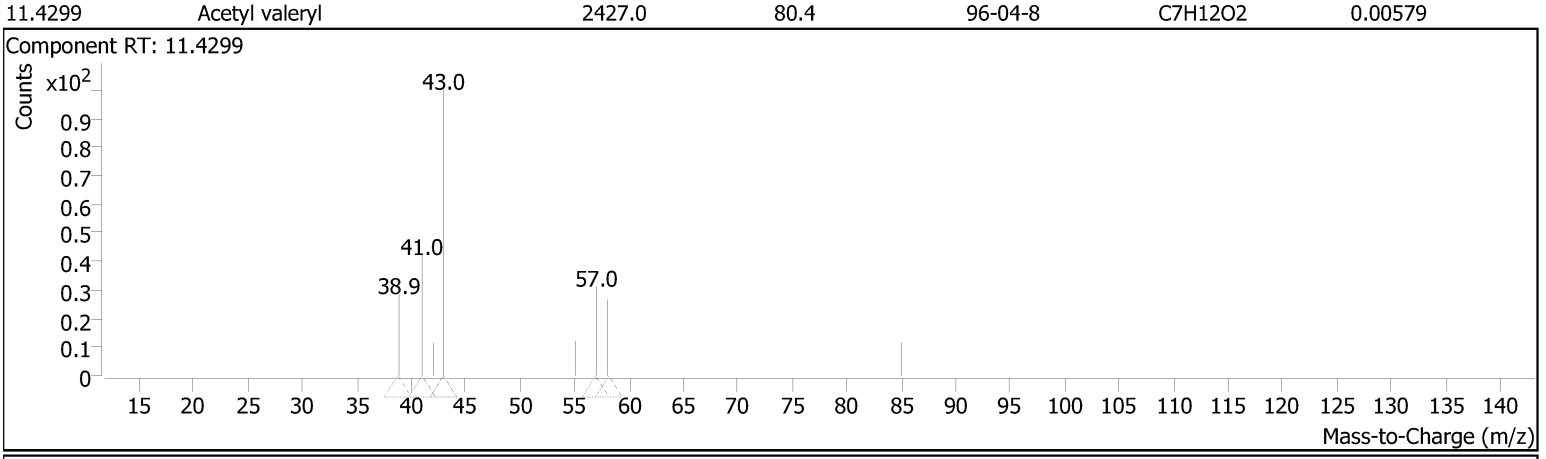



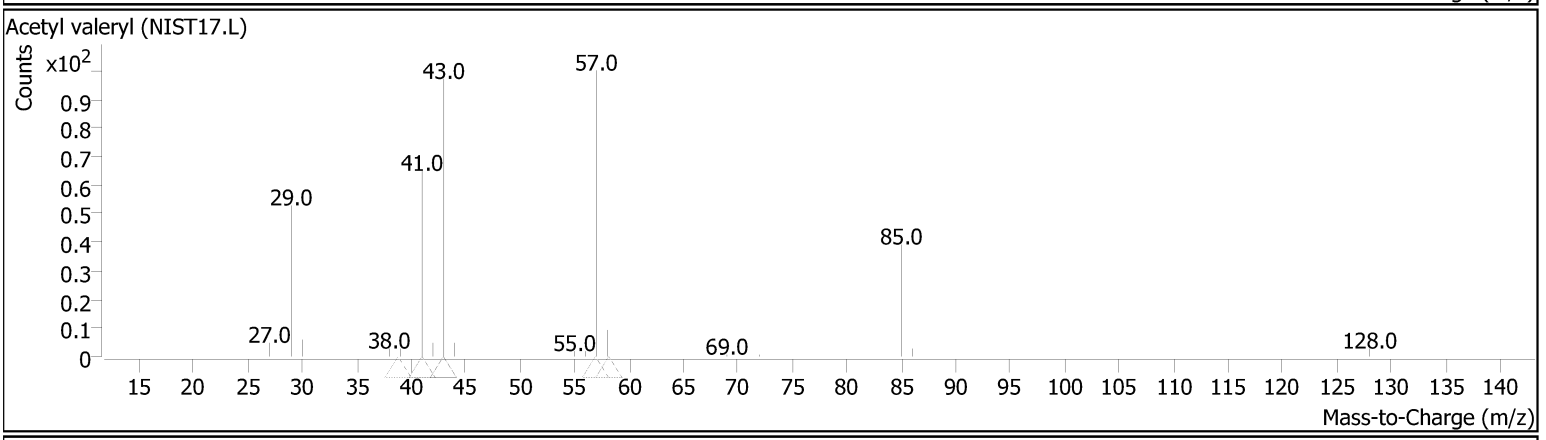



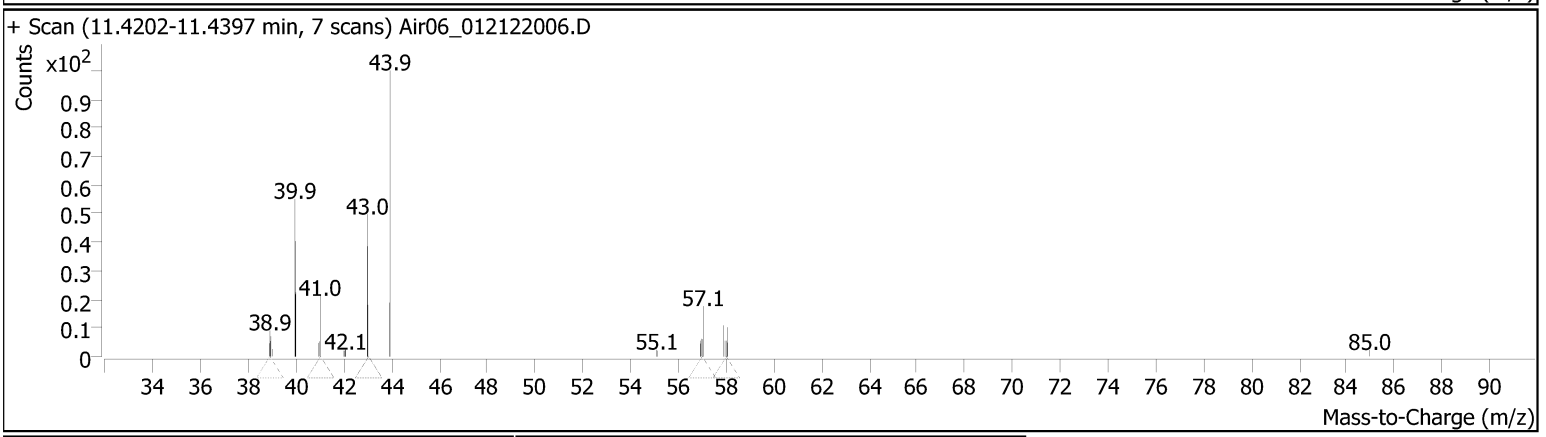



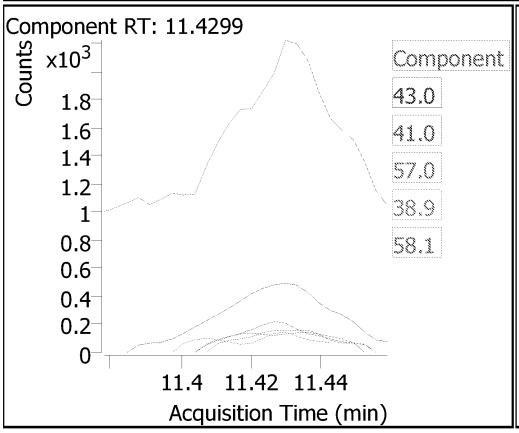



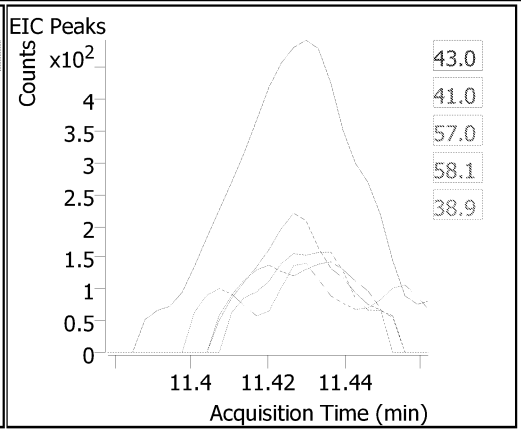
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.4299 | Acetyl valeryl | 2427.0 | 80.4 | 96-04-8 | C7H12O2 | 0.00579 |

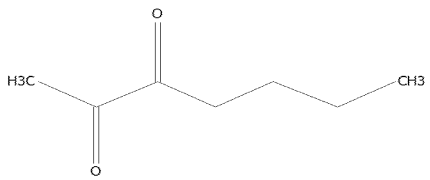


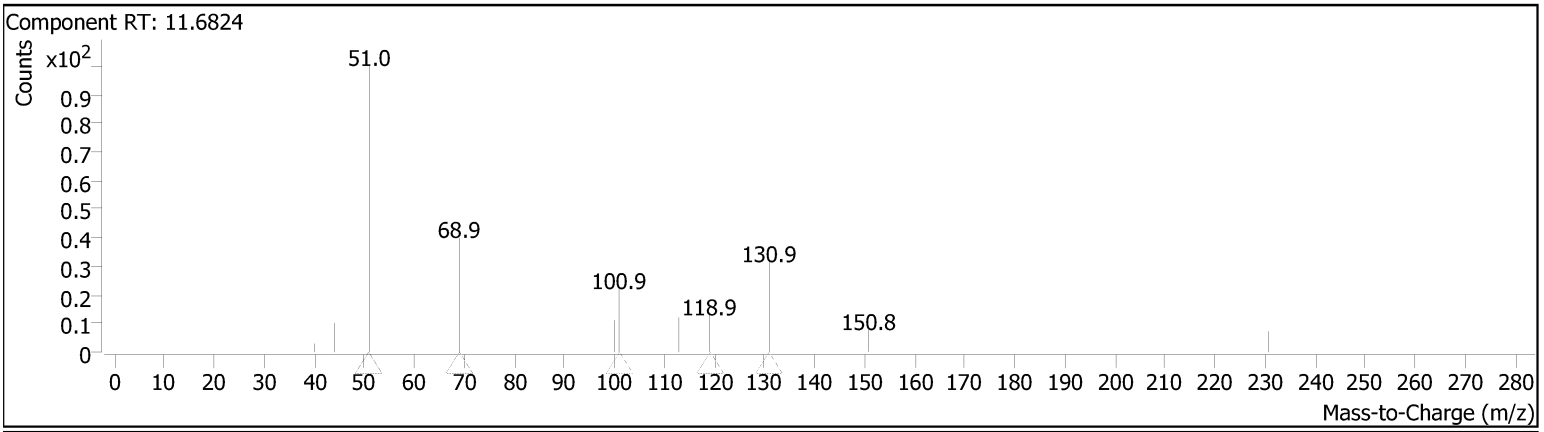



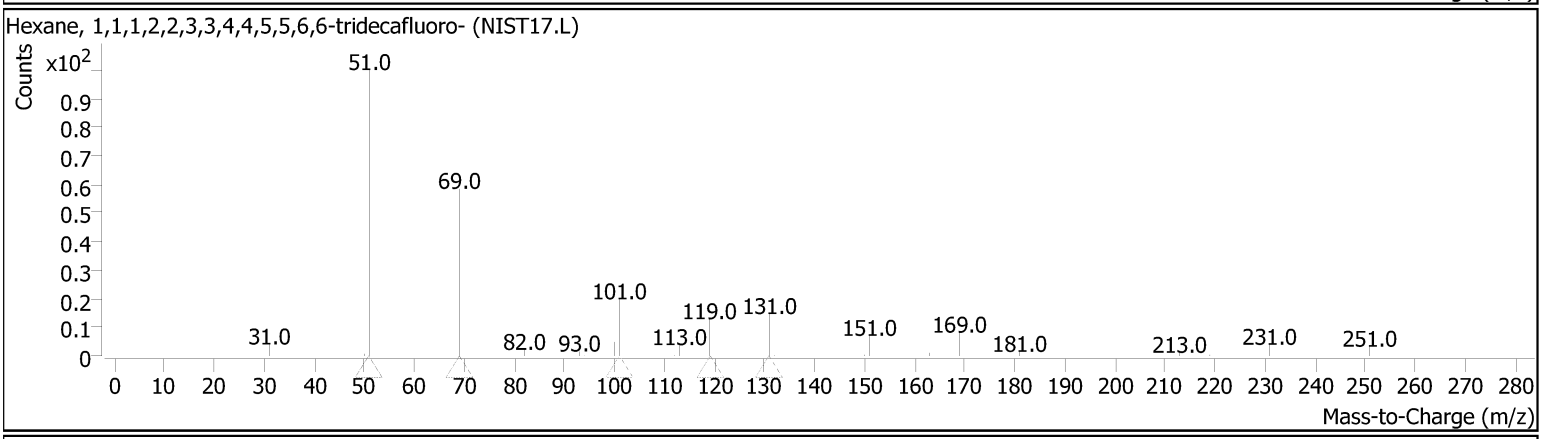



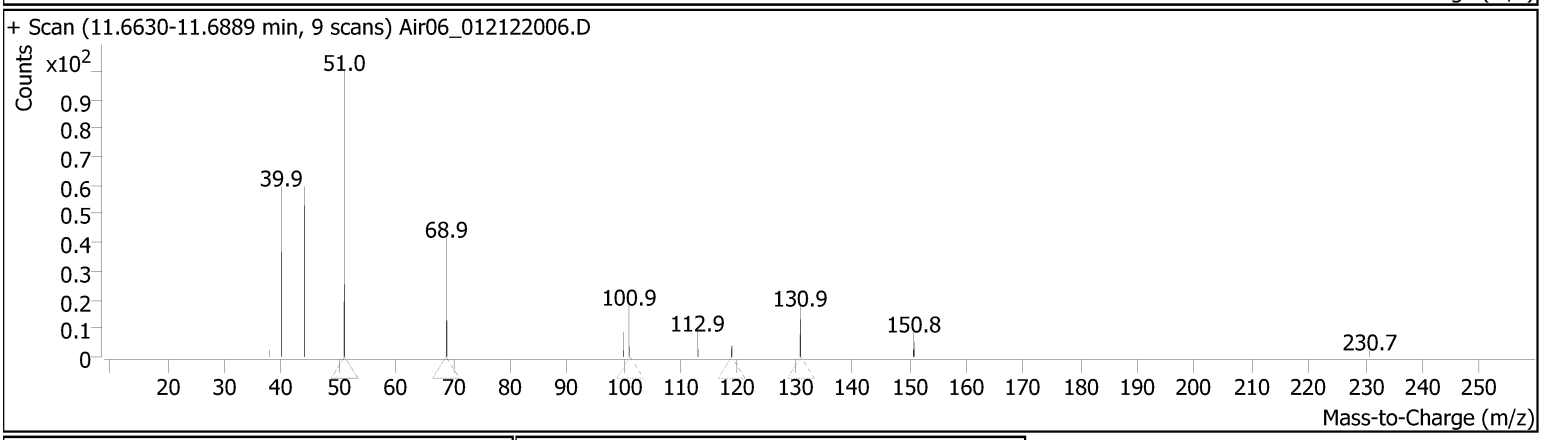



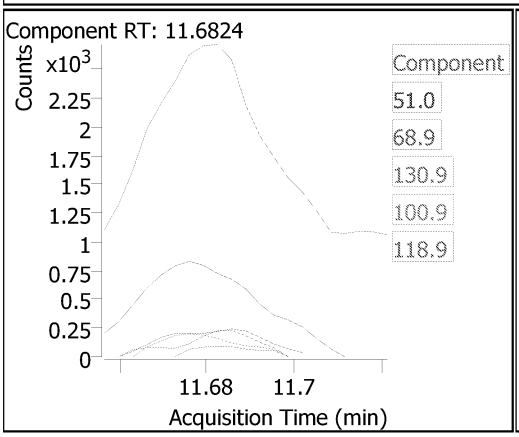



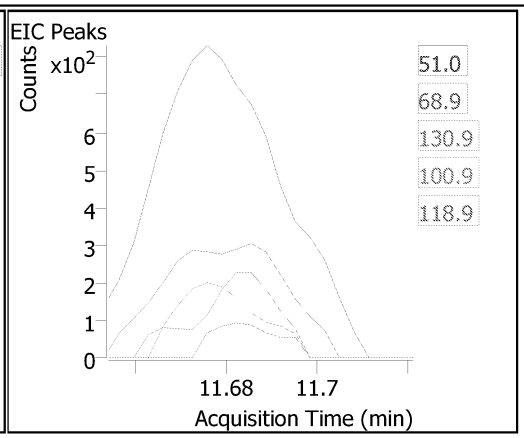
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.6824 | Hexane, 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro- | 2930.5 | 77.4 | 355-37-3 | C6HF13 | 0.006991 |

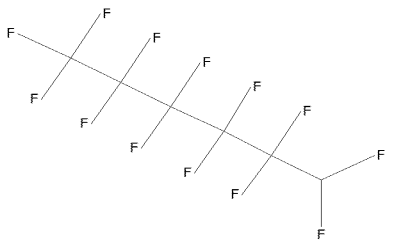


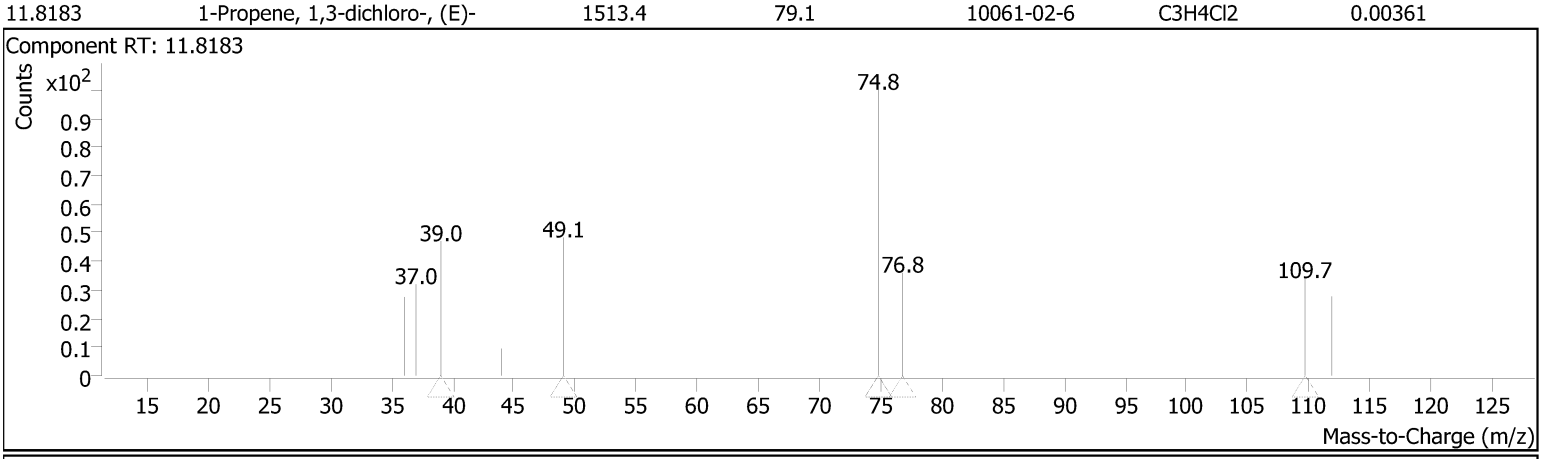



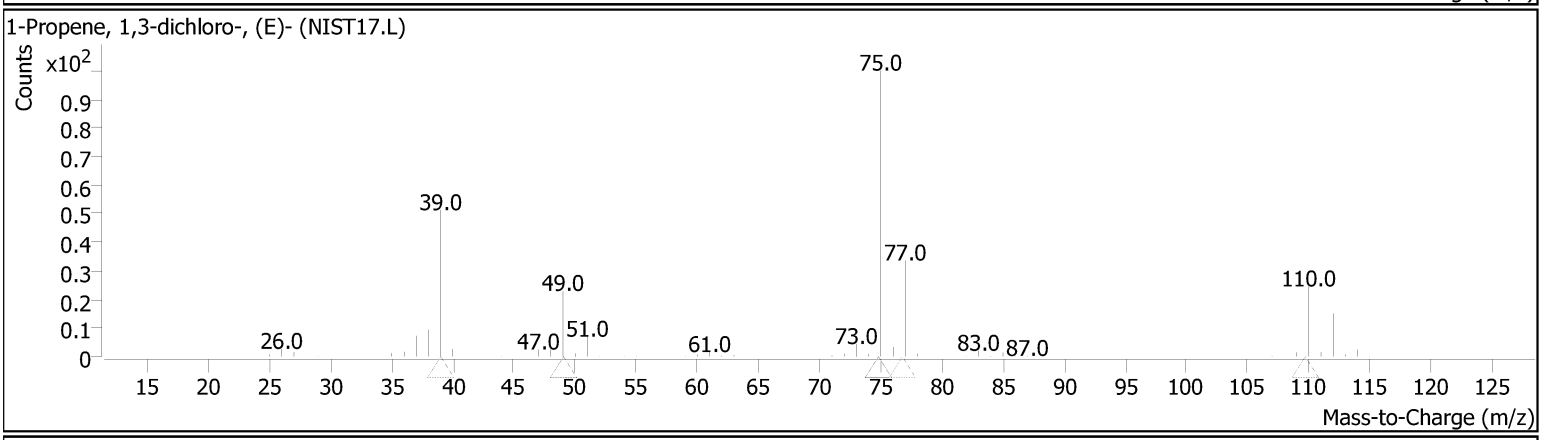



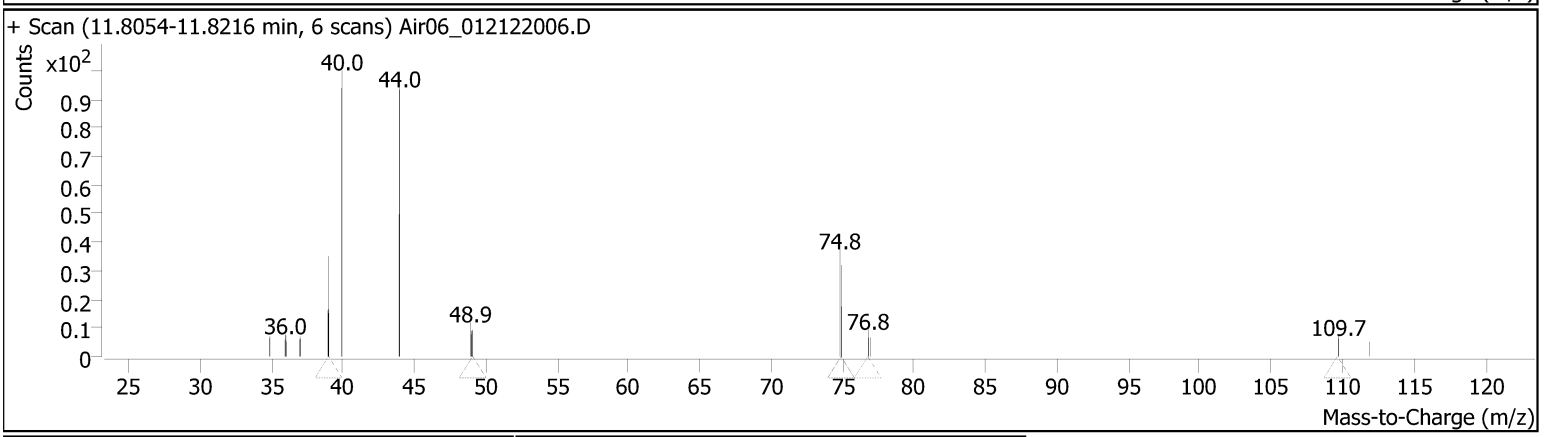



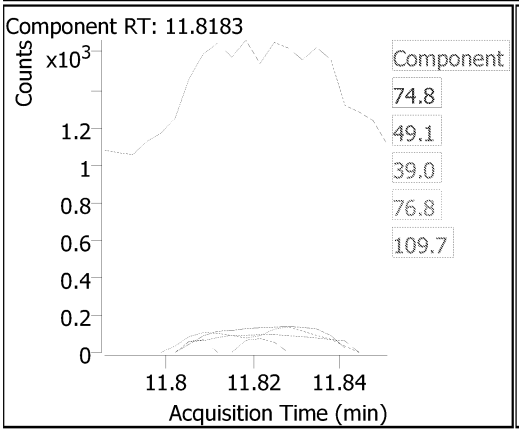



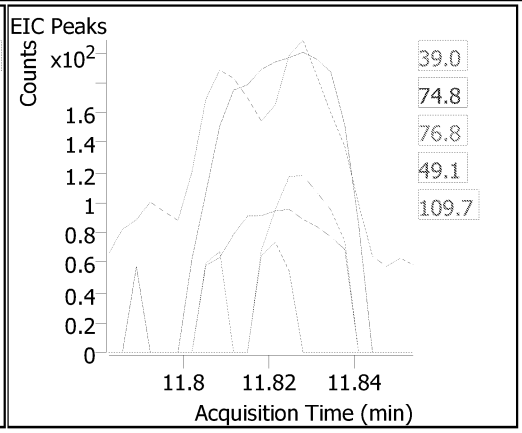
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.8183 | 1-Propene, 1,3-dichloro-, (E)- | 1513.4 | 79.1 | 10061-02-6 | C3H4Cl2 | 0.00361 |

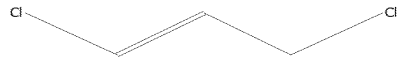


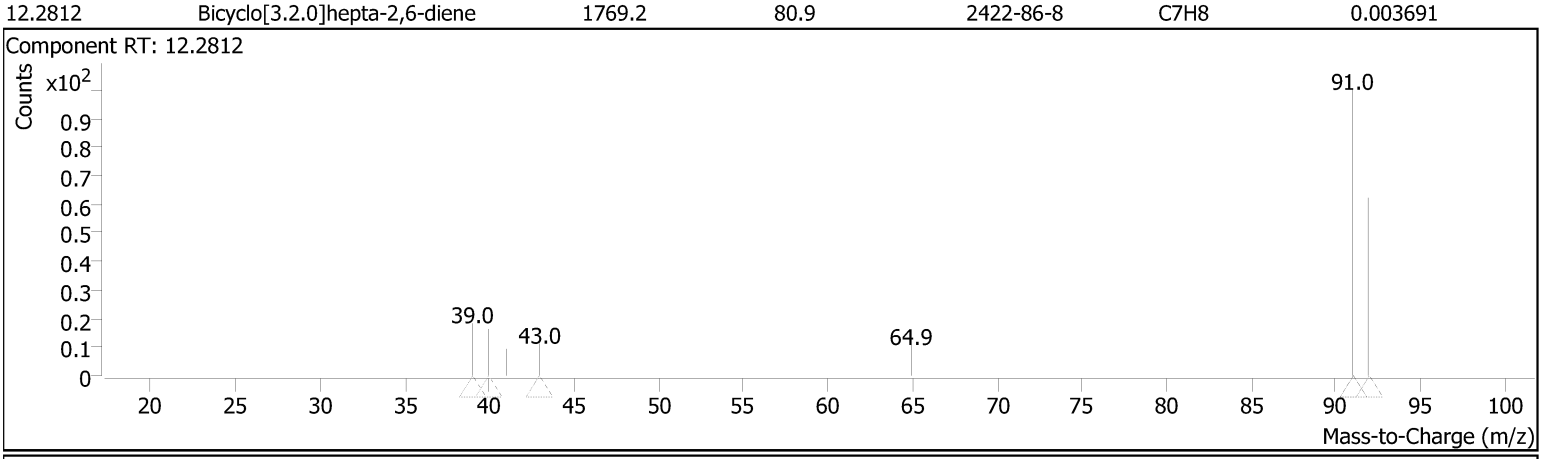



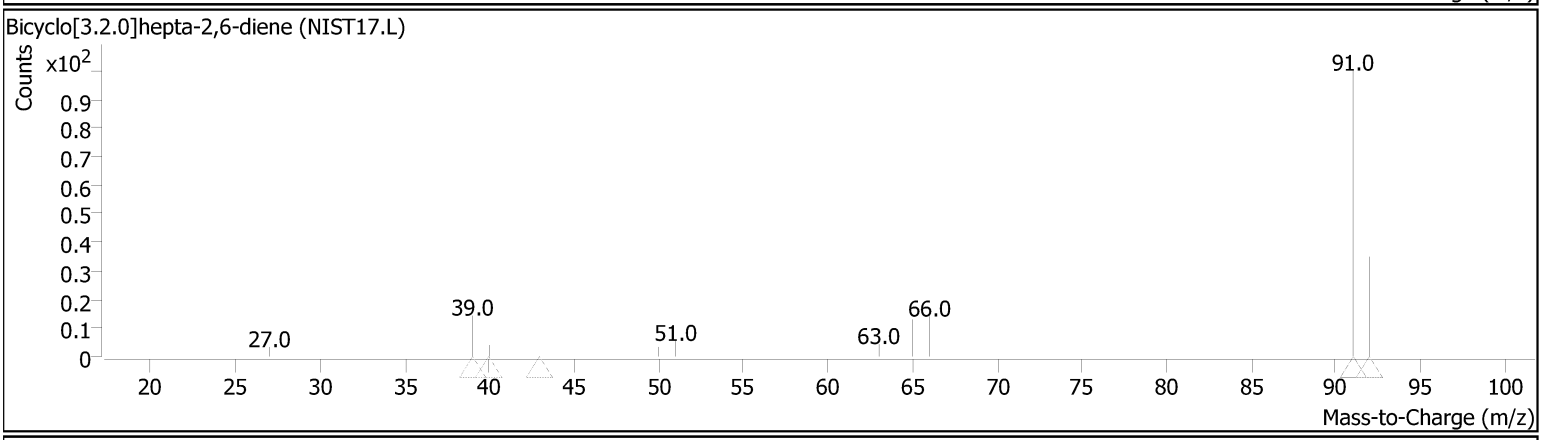



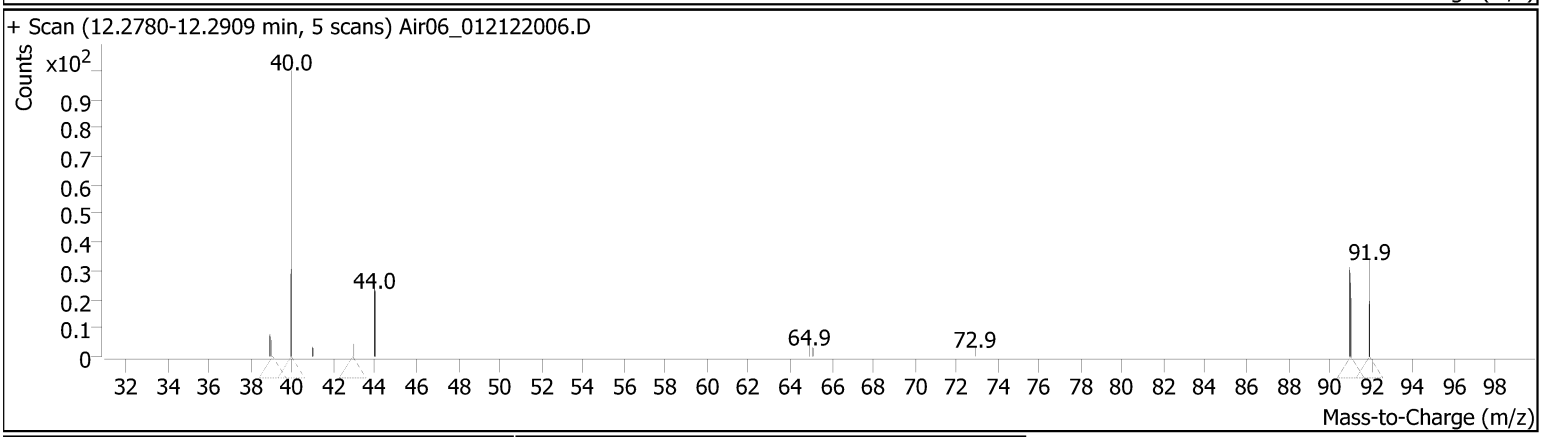



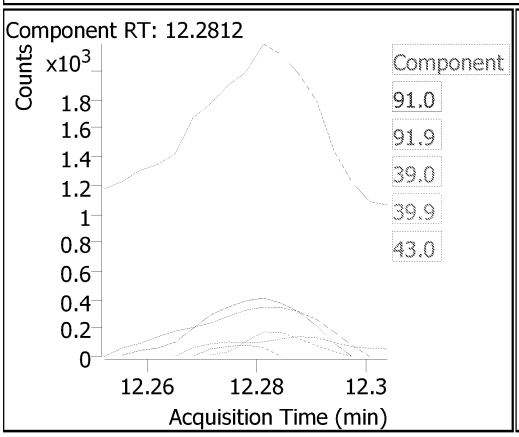



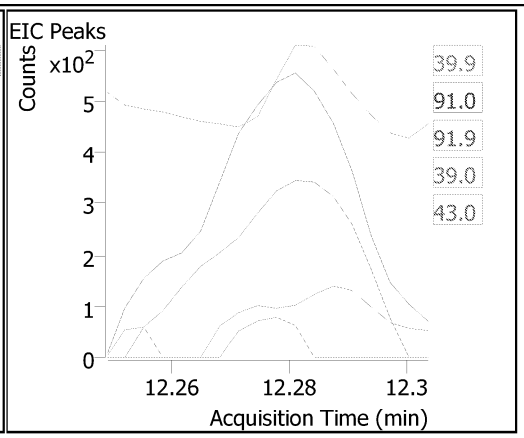
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.2812 | Bicyclo[3.2.0]hepta-2,6-diene | 1769.2 | 80.9 | 2422-86-8 | C7H8 | 0.003691 |

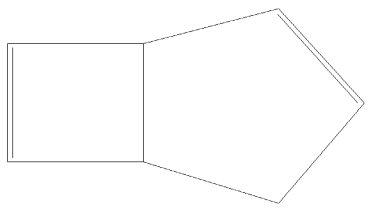


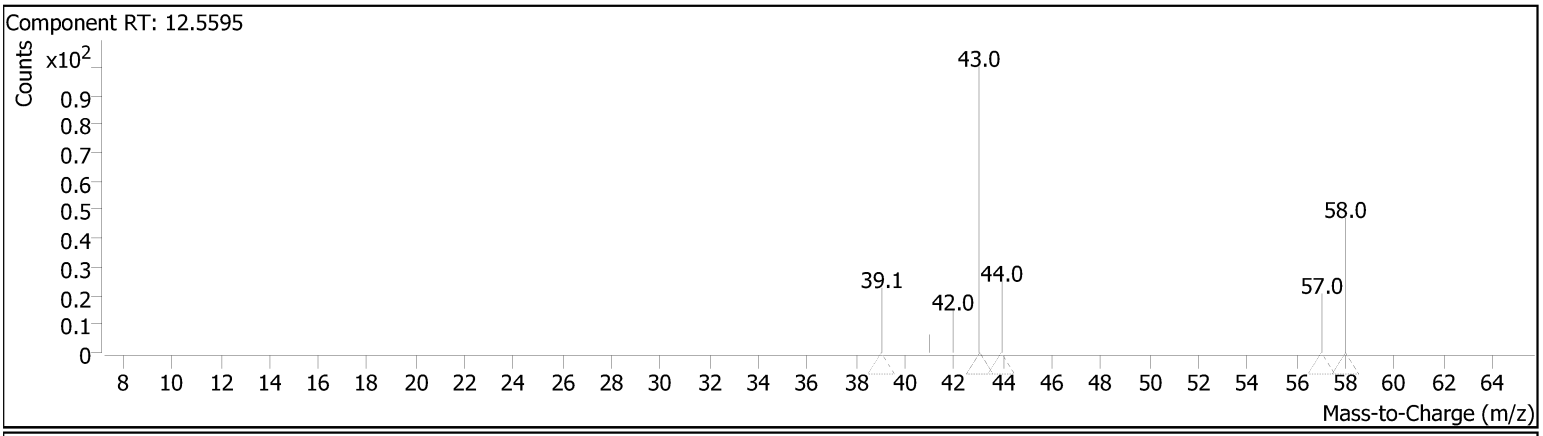



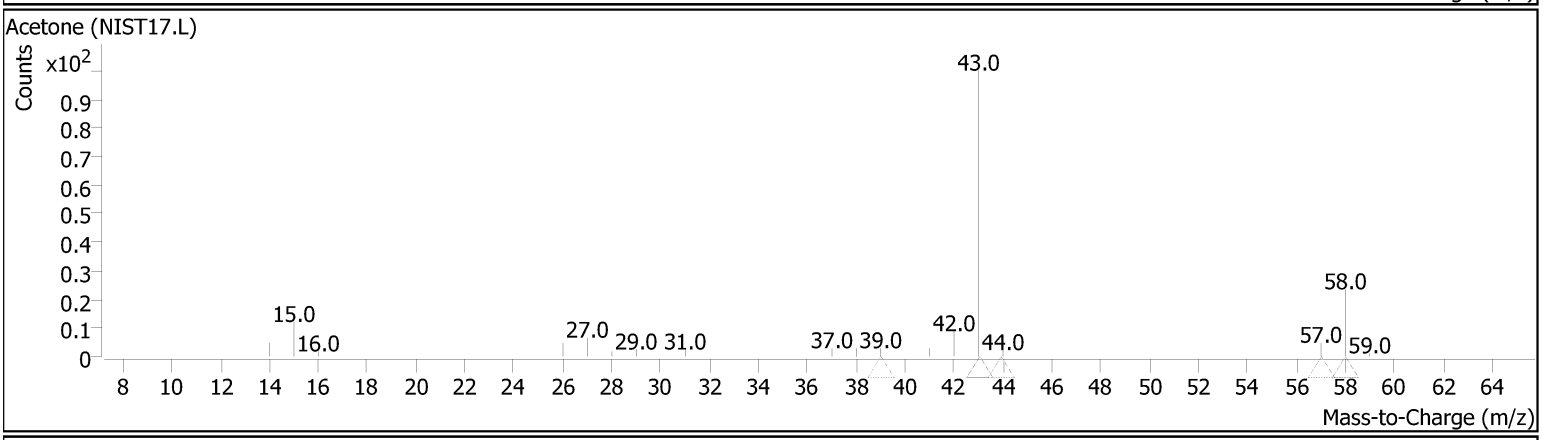



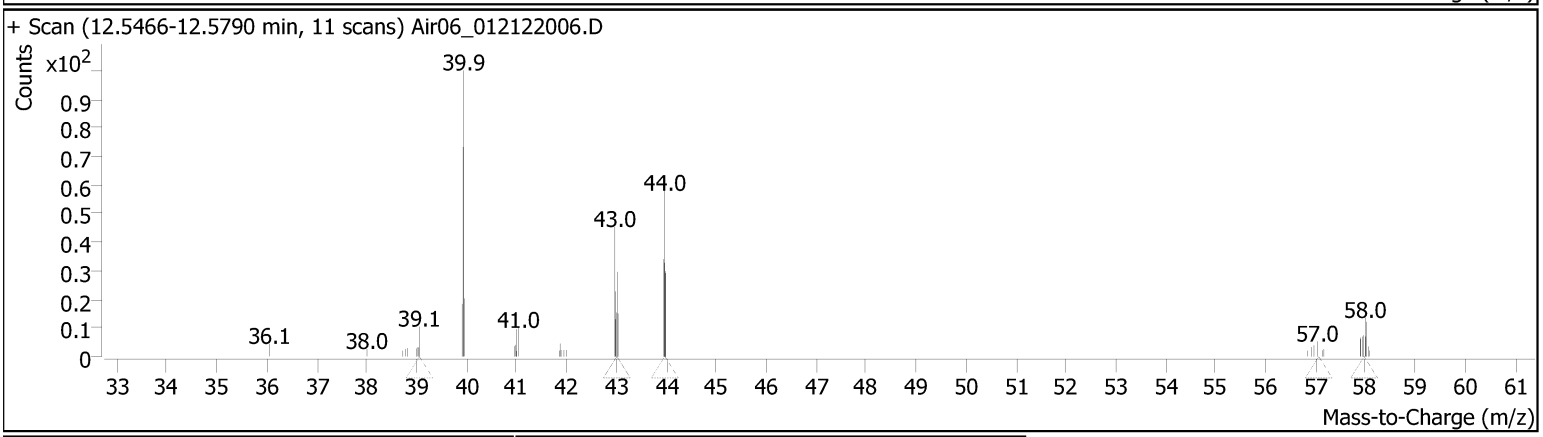



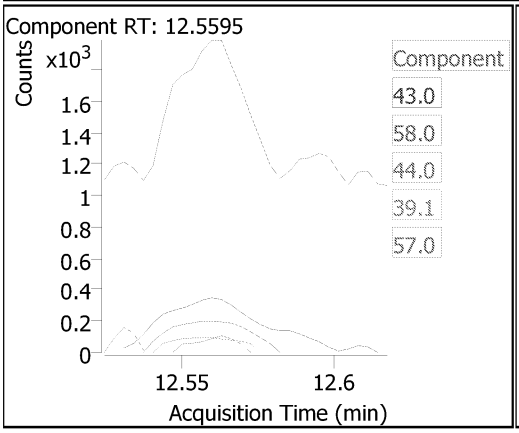



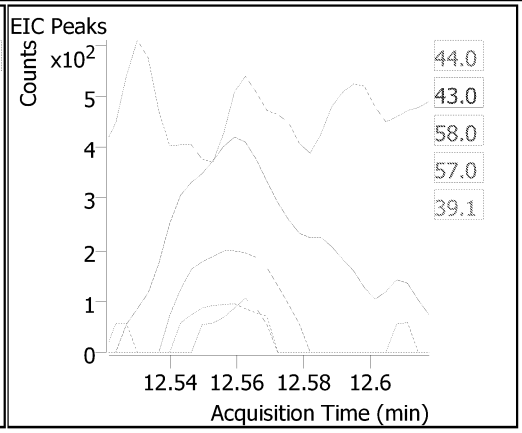
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.5595 | Acetone | 1956.7 | 88.0 | 67-64-1 | C3H6O | 0.004082 |

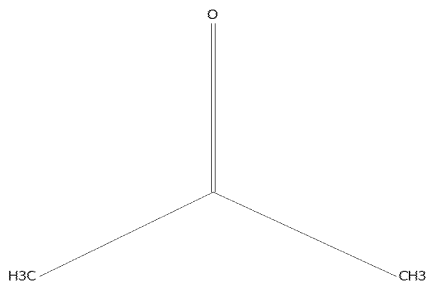


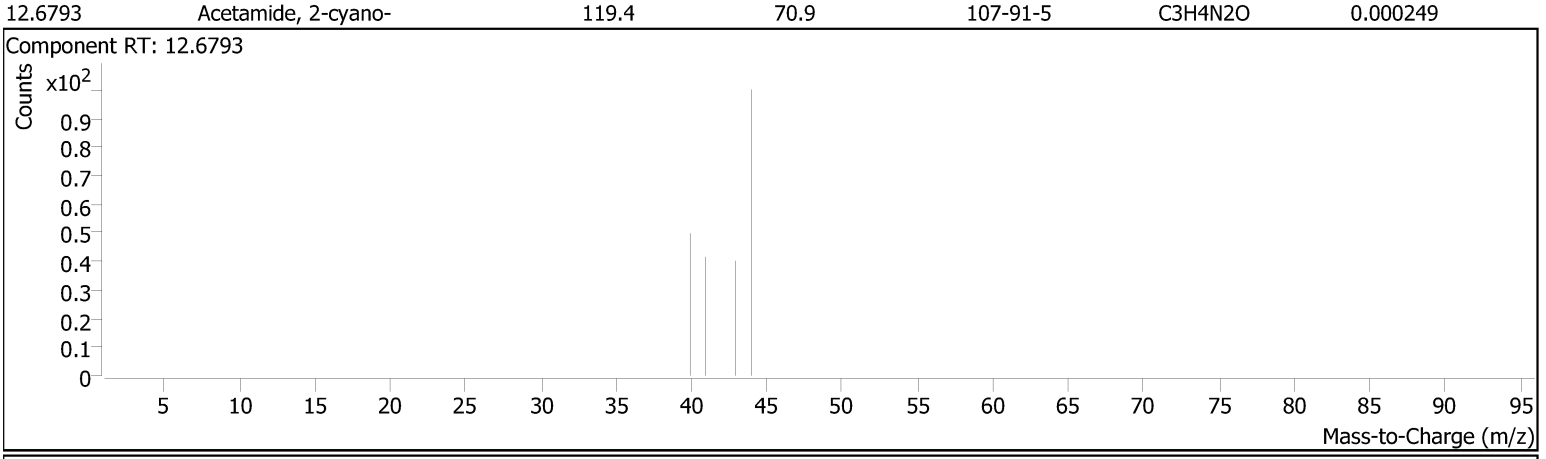



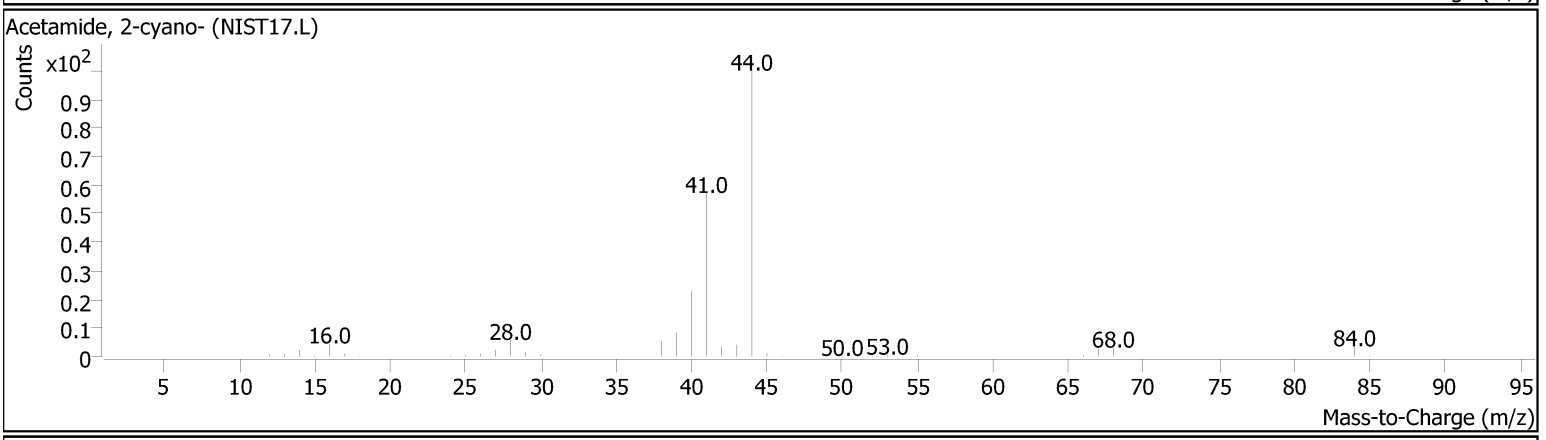



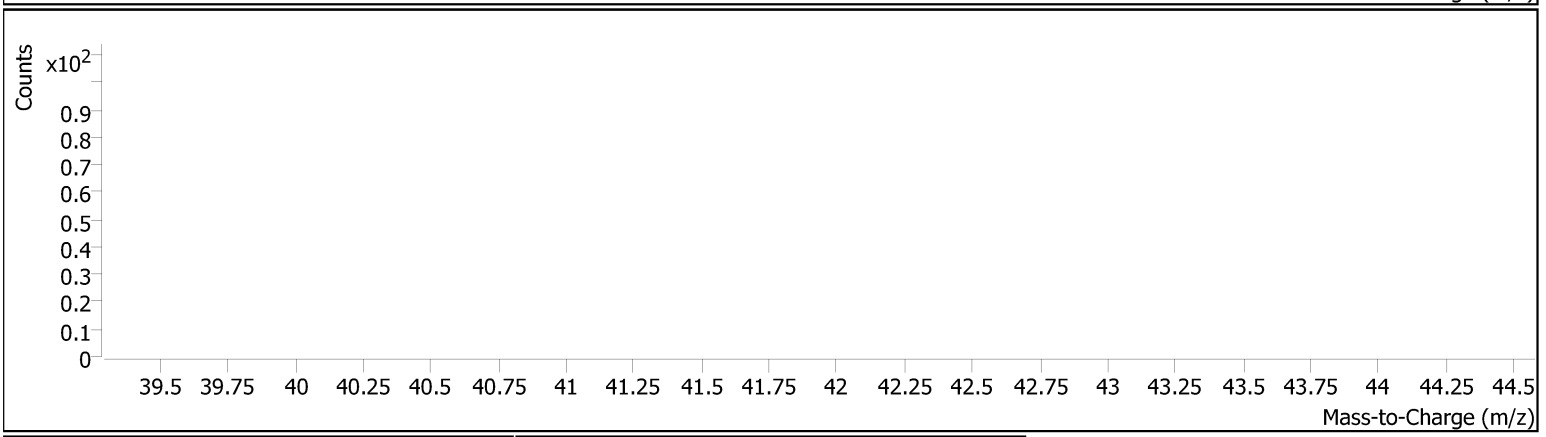



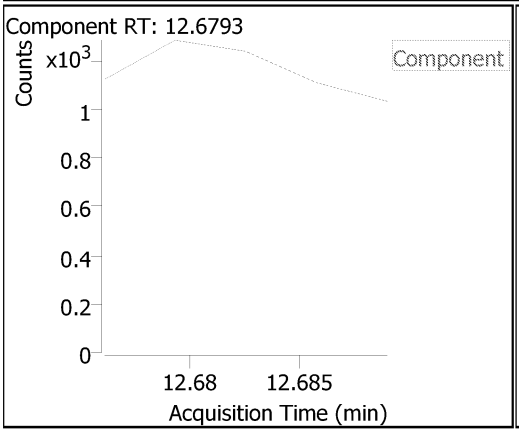



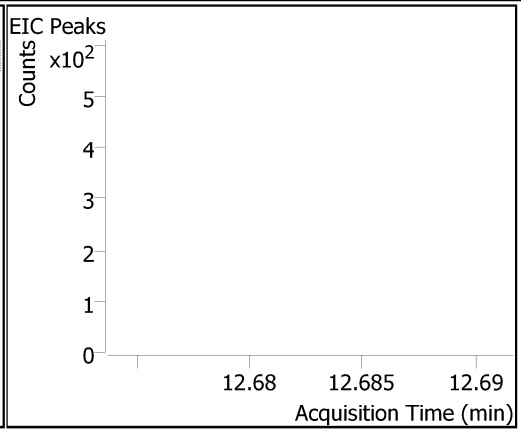
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.6793 | Acetamide, 2-cyano- | 119.4 | 70.9 | 107-91-5 | C3H4N2O | 0.000249 |

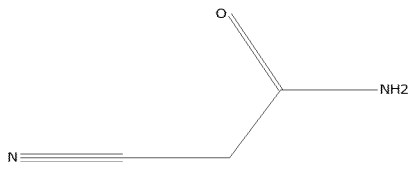


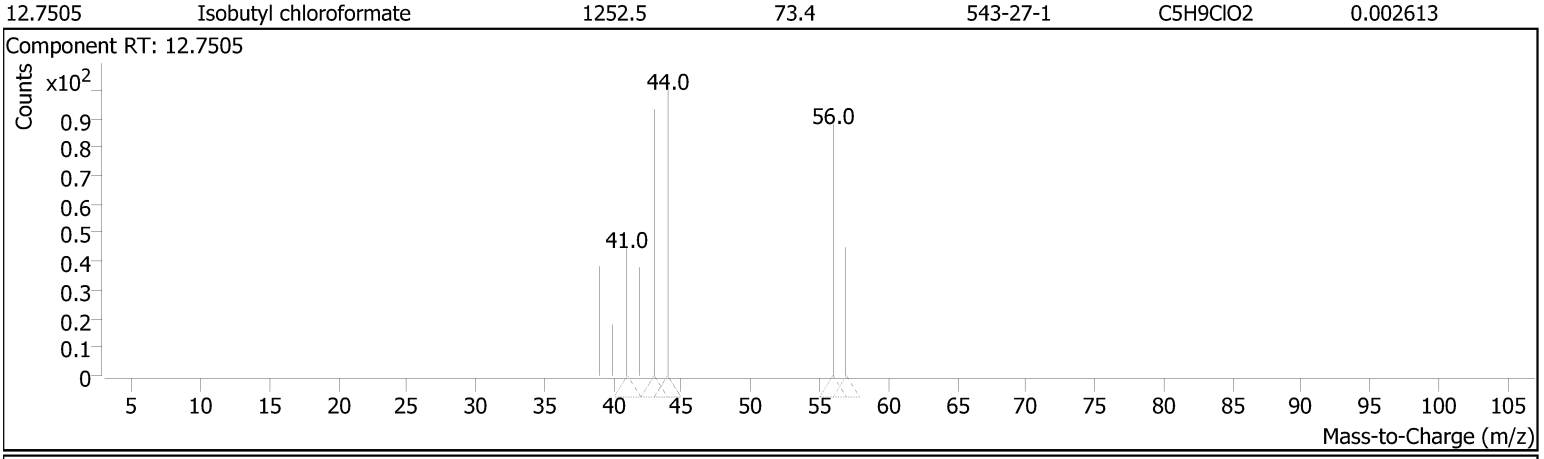



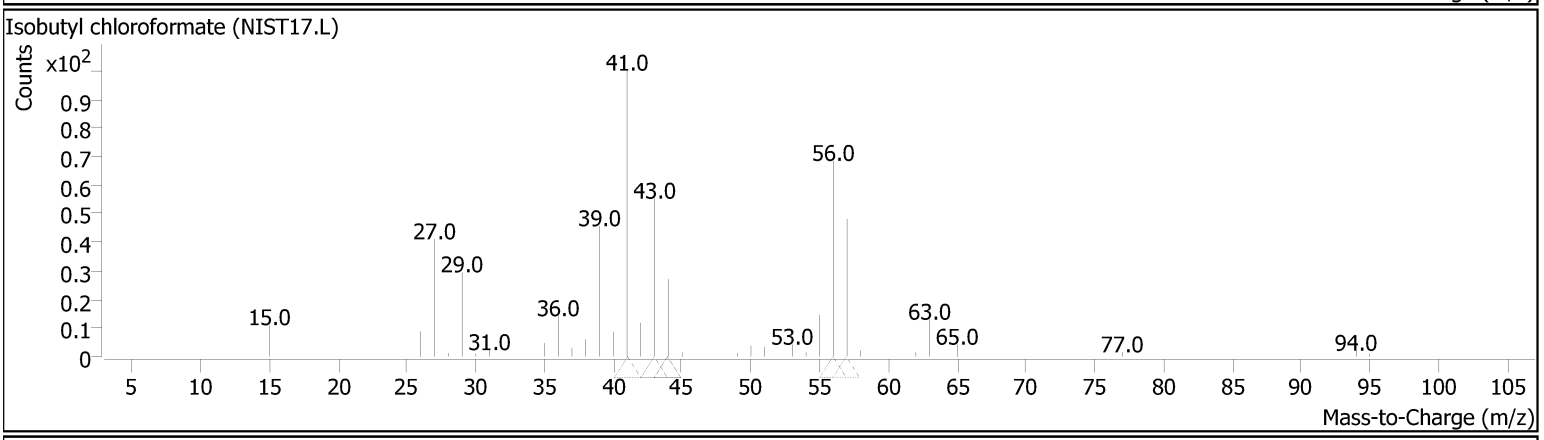



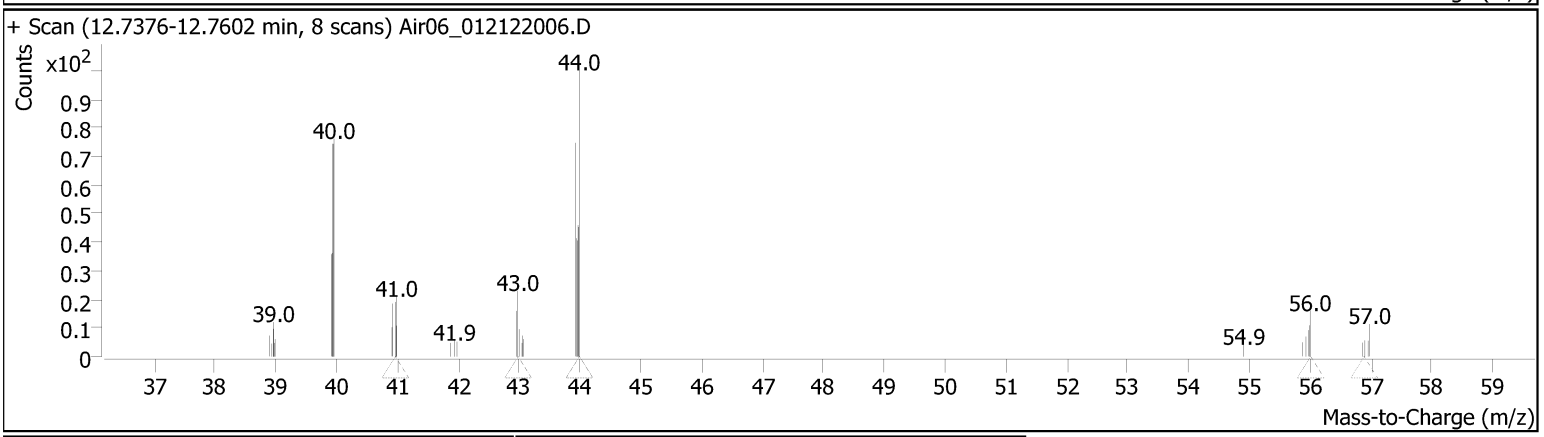



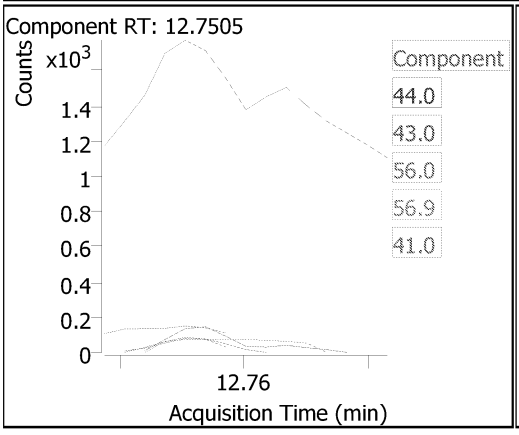



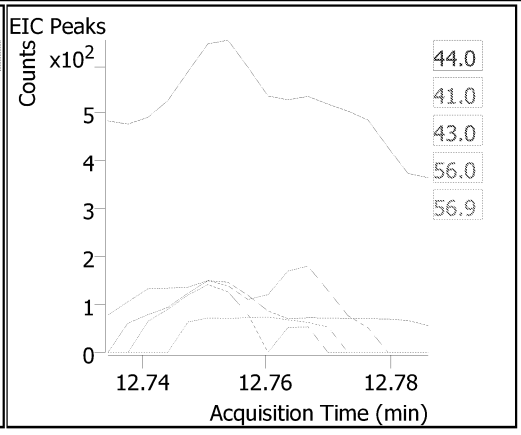
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.7505 | Isobutyl chloroformate | 1252.5 | 73.4 | 543-27-1 | C5H9ClO2 | 0.002613 |

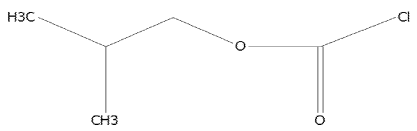


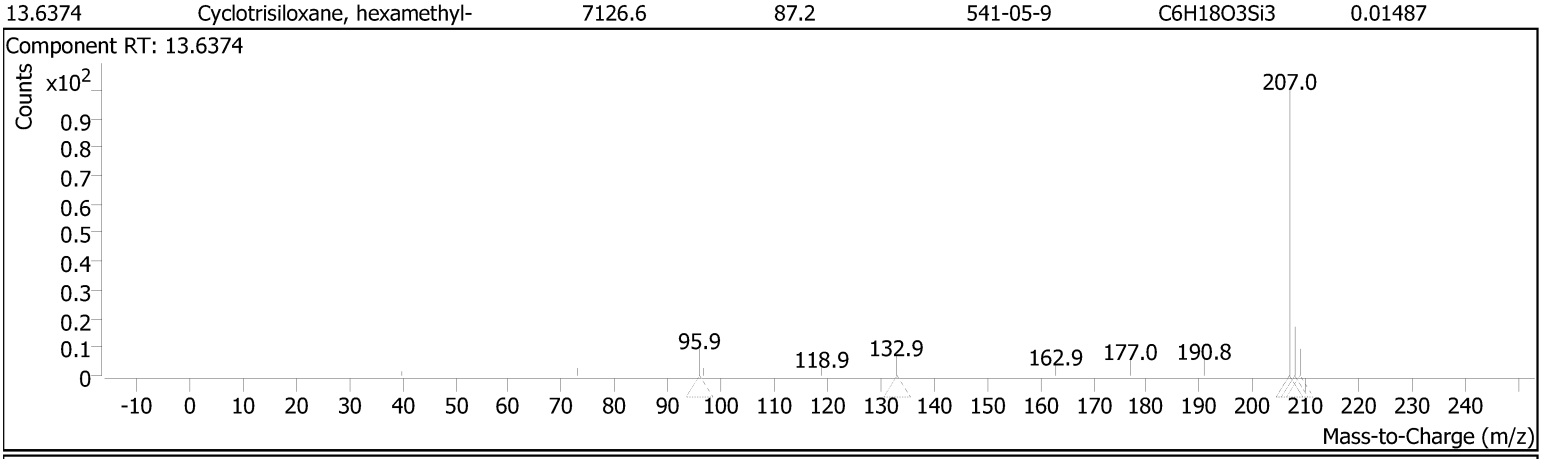



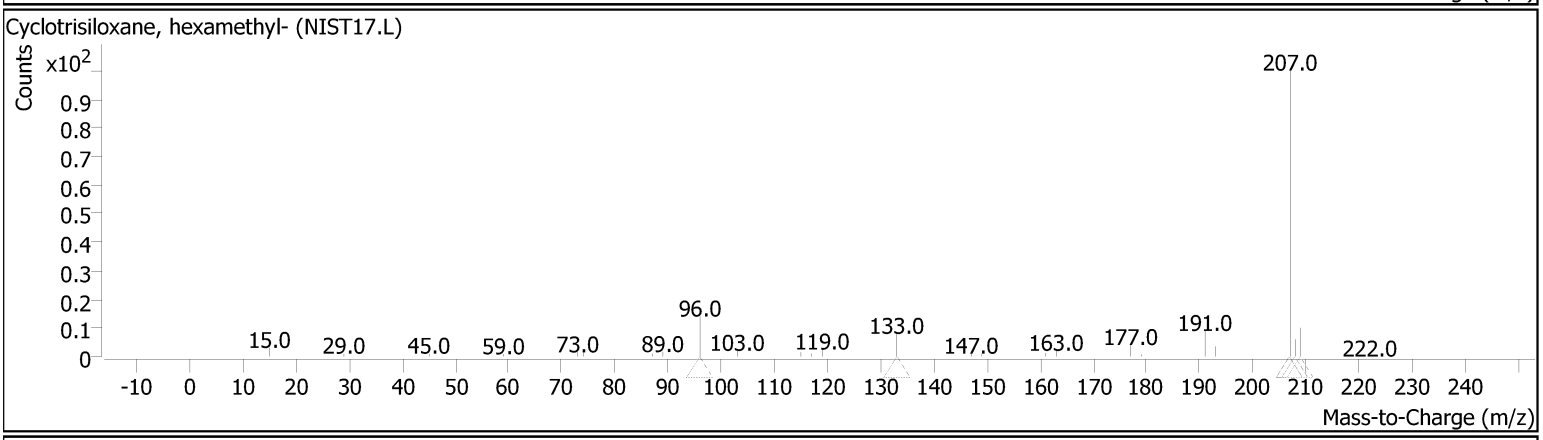



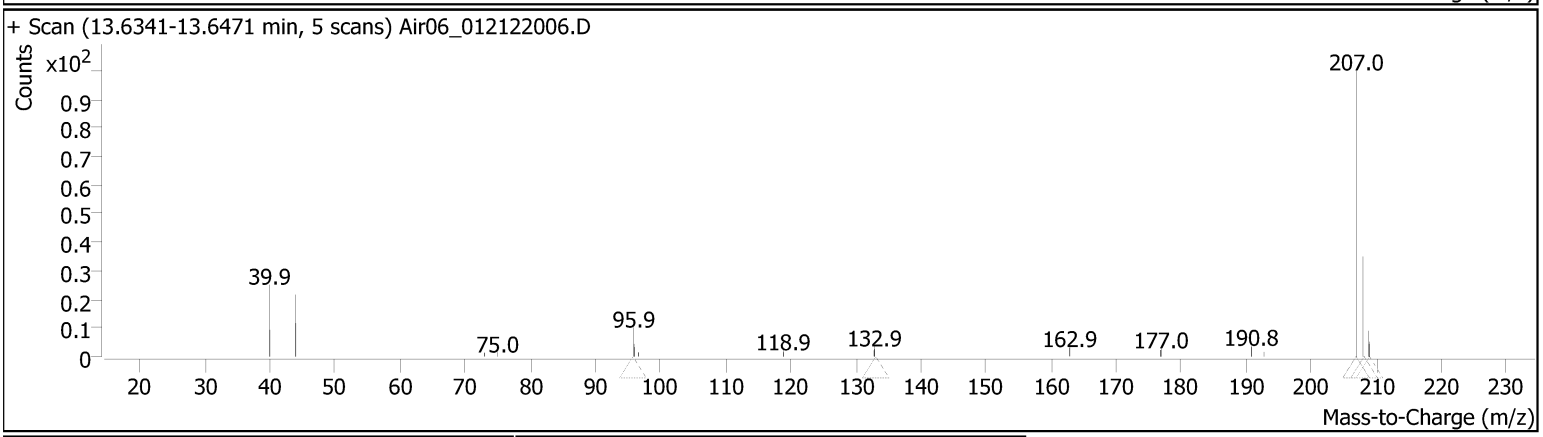



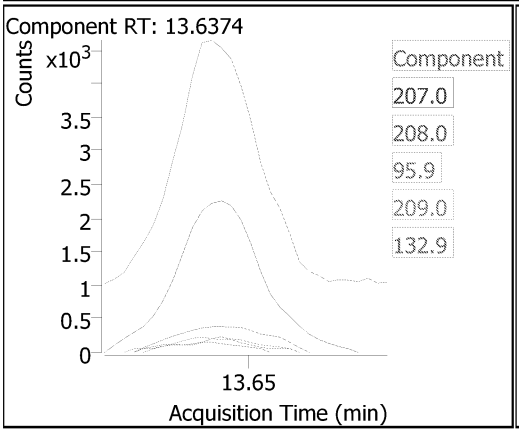



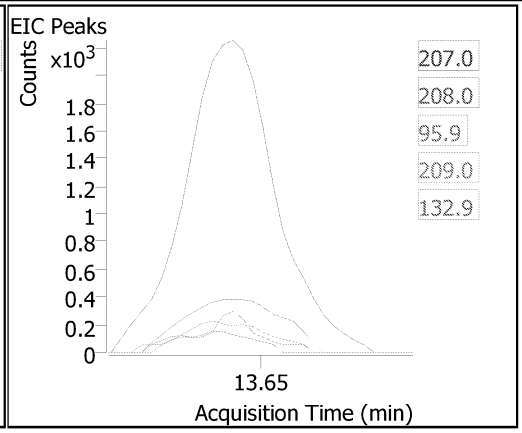
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.6374 | Cyclotrisiloxane, hexamethyl- | 7126.6 | 87.2 | 541-05-9 | C6H18O3Si3 | 0.01487 |

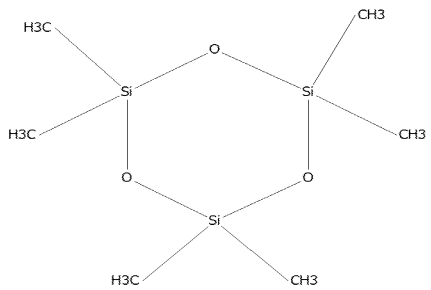


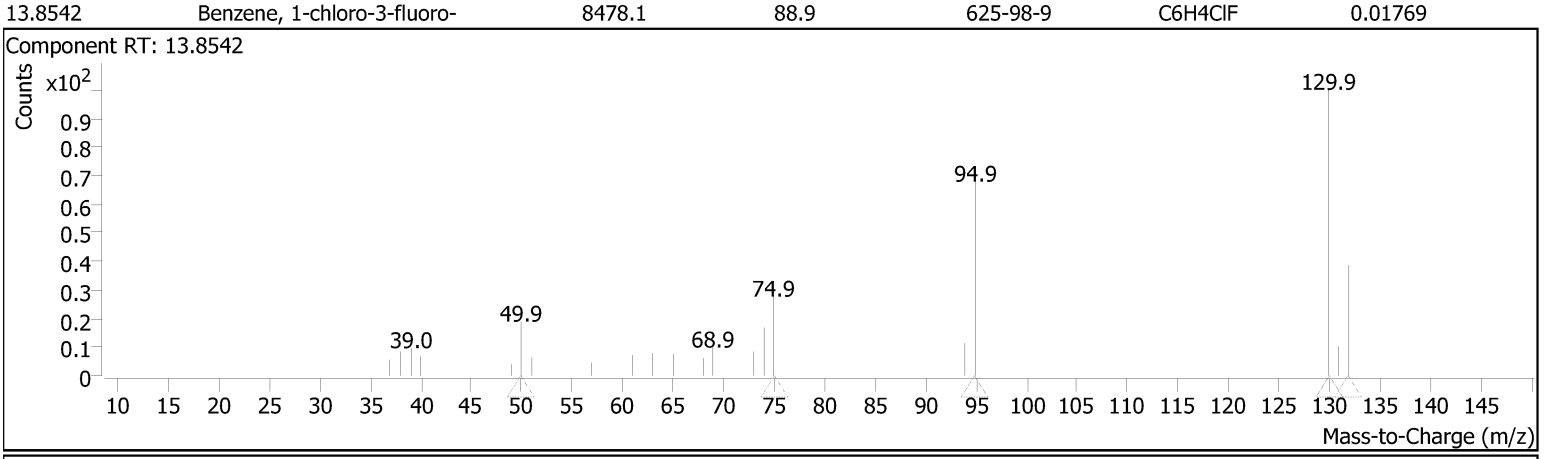



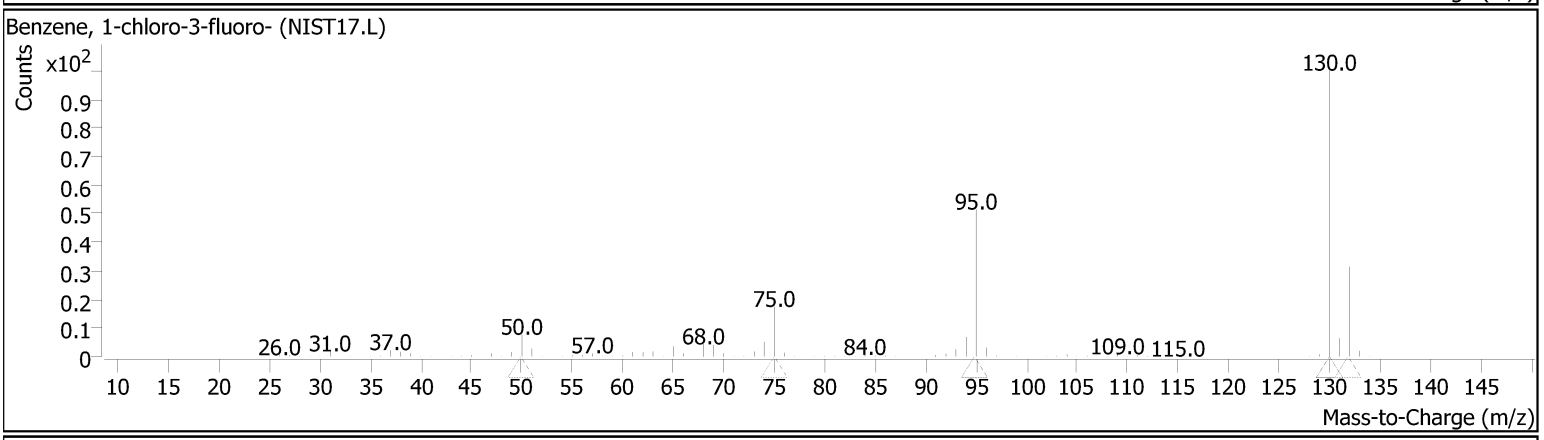



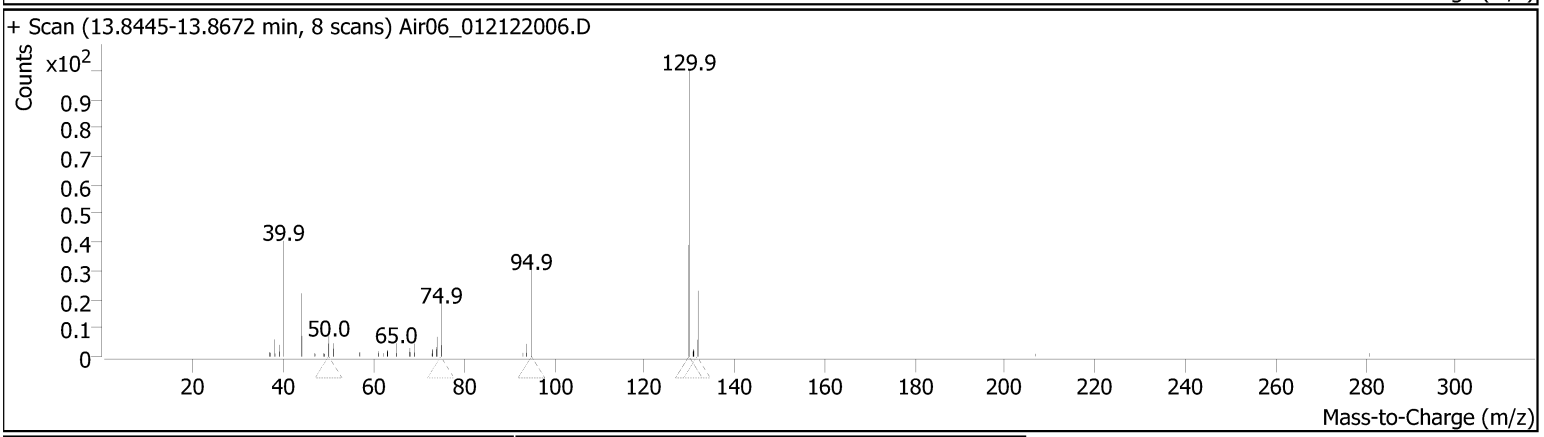



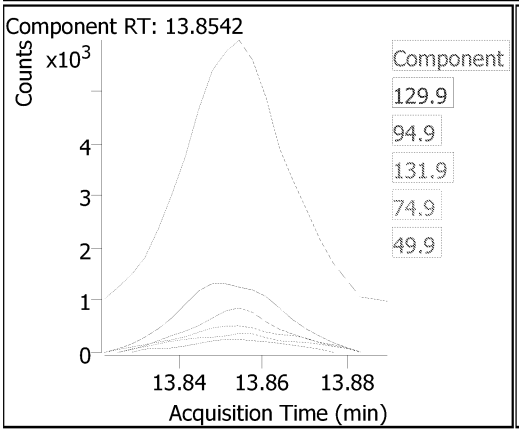



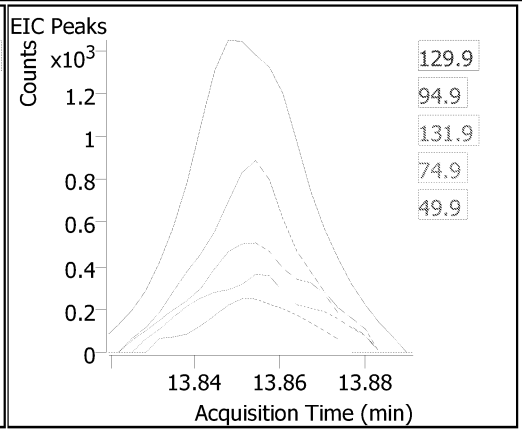
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.8542 | Benzene, 1-chloro-3-fluoro- | 8478.1 | 88.9 | 625-98-9 | C6H4ClF | 0.01769 |

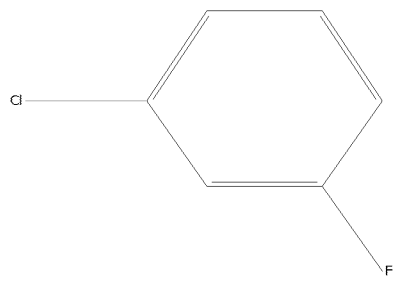


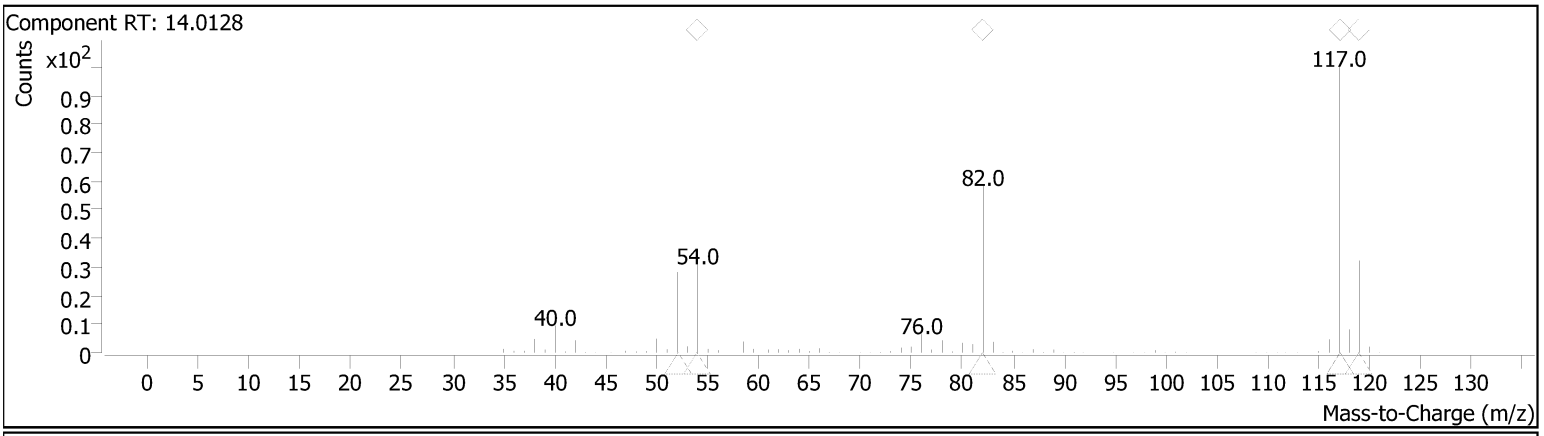



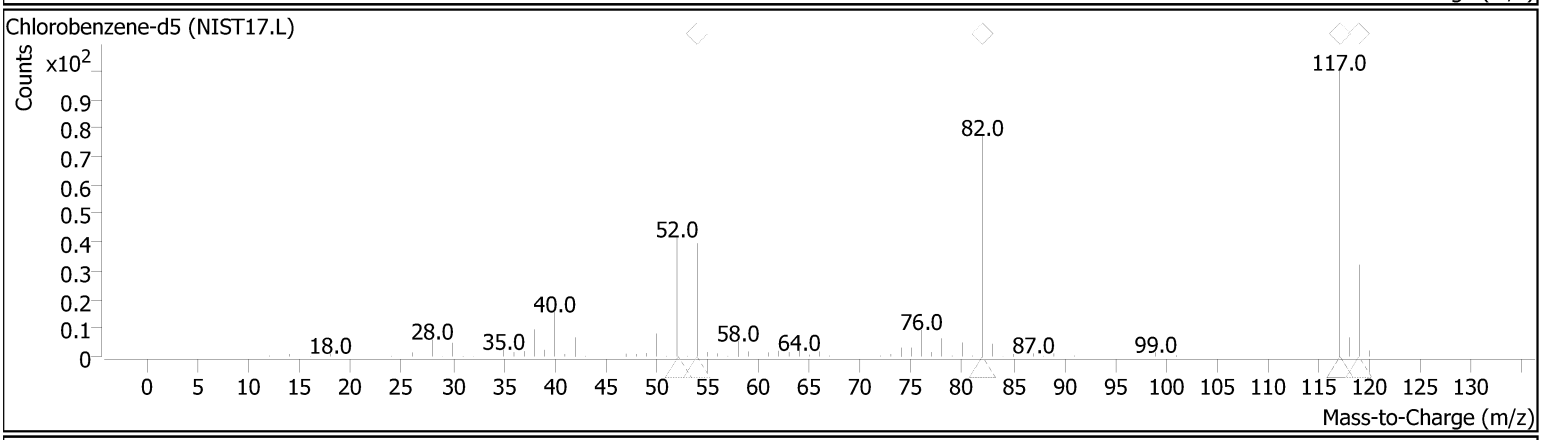



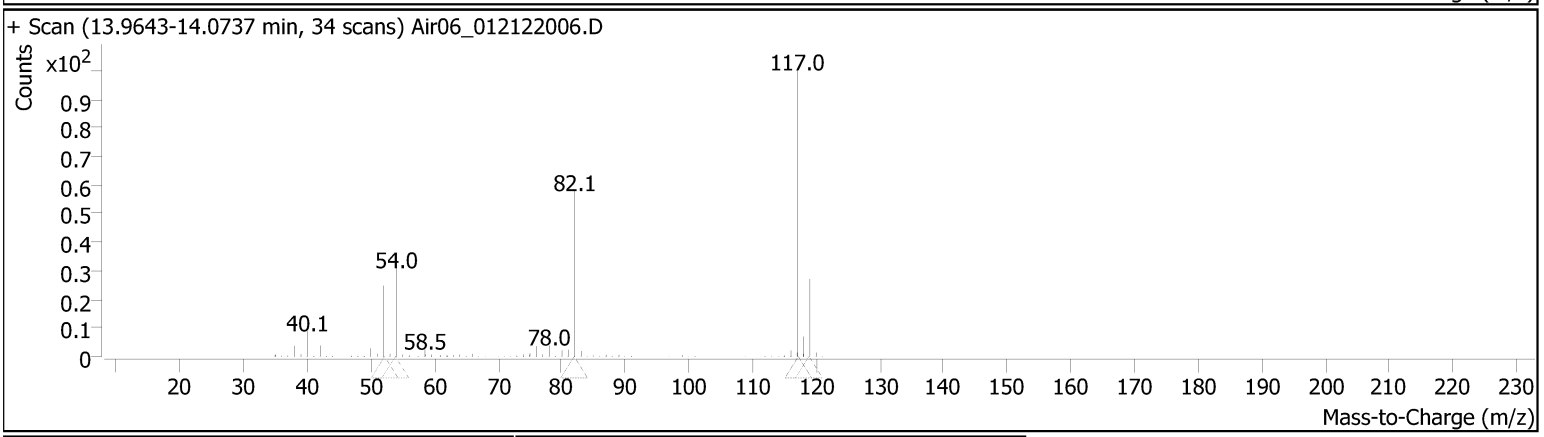



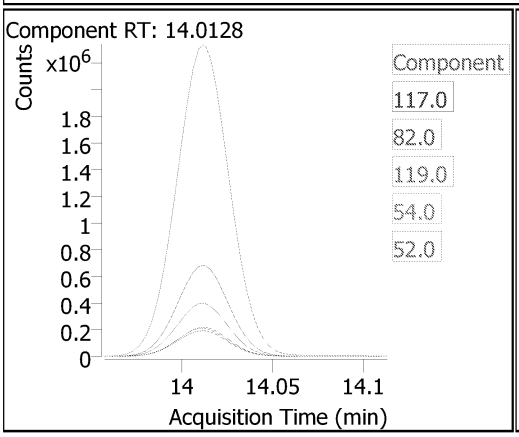



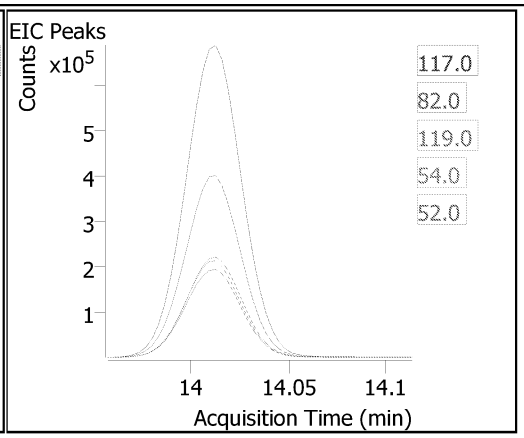
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0128 | Chlorobenzene-d5 | 4793750.4 | 95.5 | 3114-55-4 | C6D5Cl | 10 |

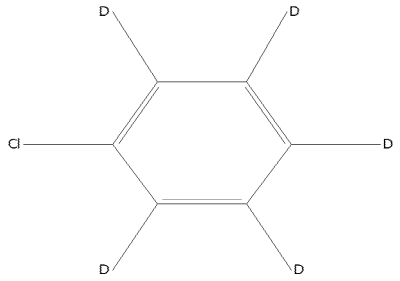


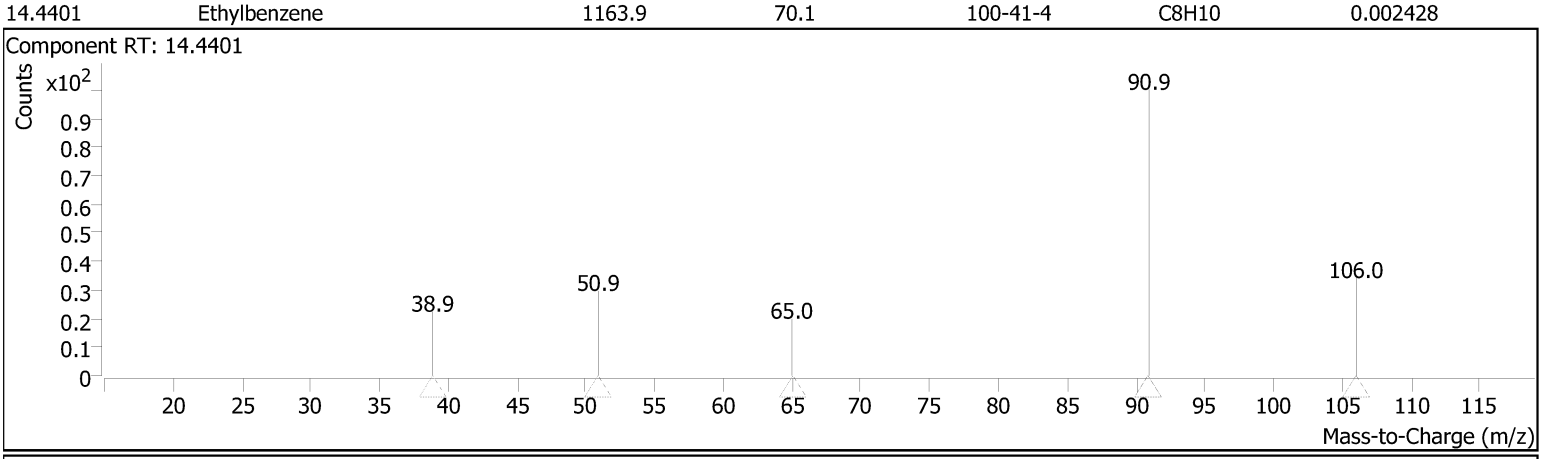



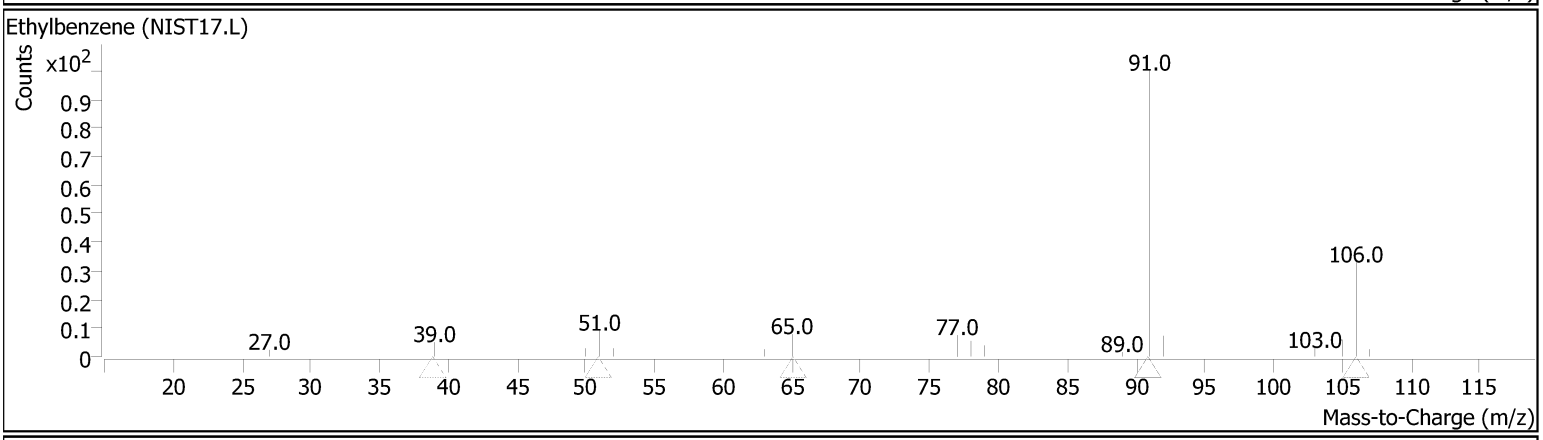



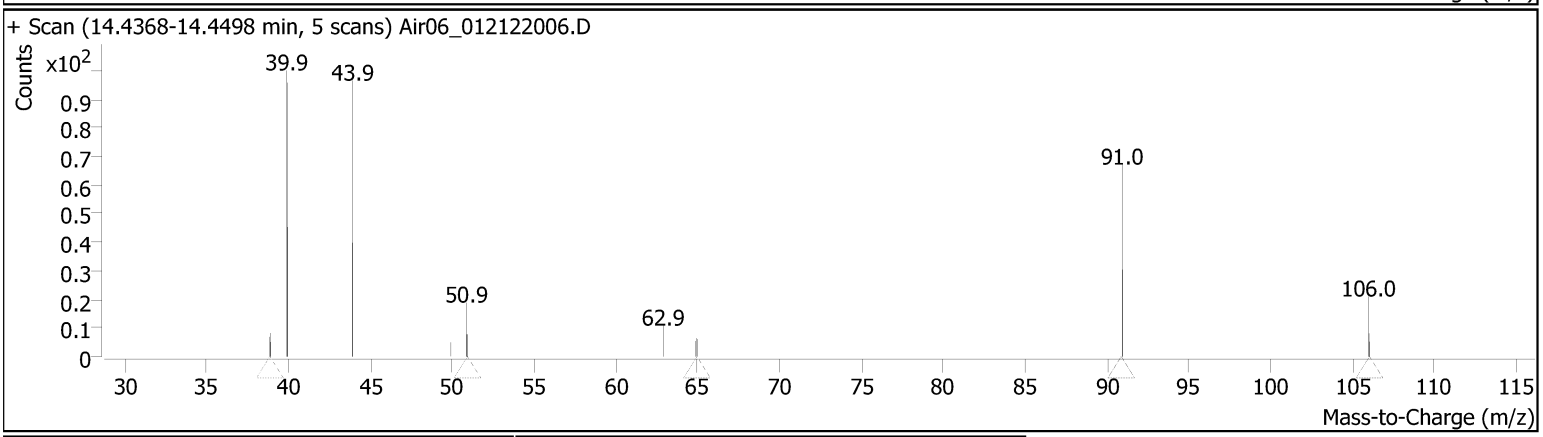



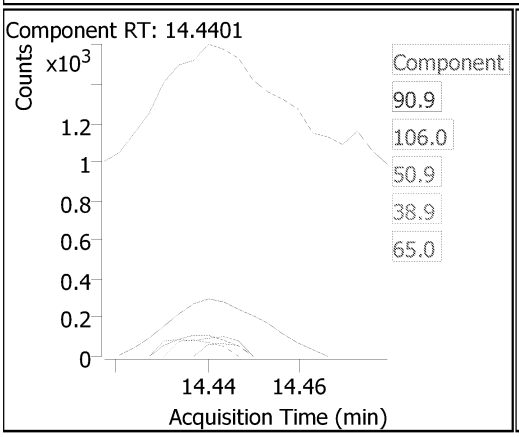



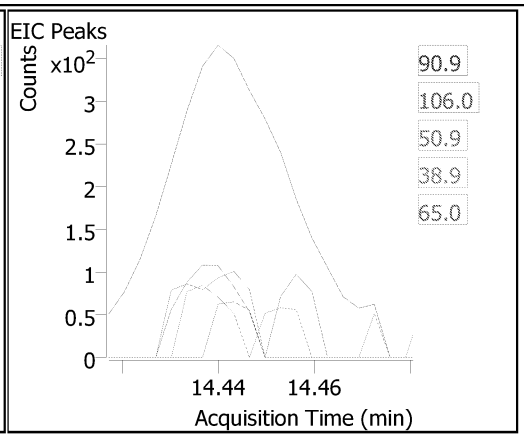
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.4401 | Ethylbenzene | 1163.9 | 70.1 | 100-41-4 | C8H10 | 0.002428 |

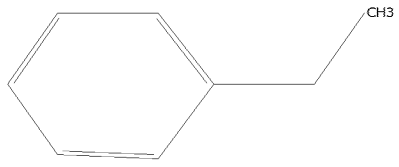


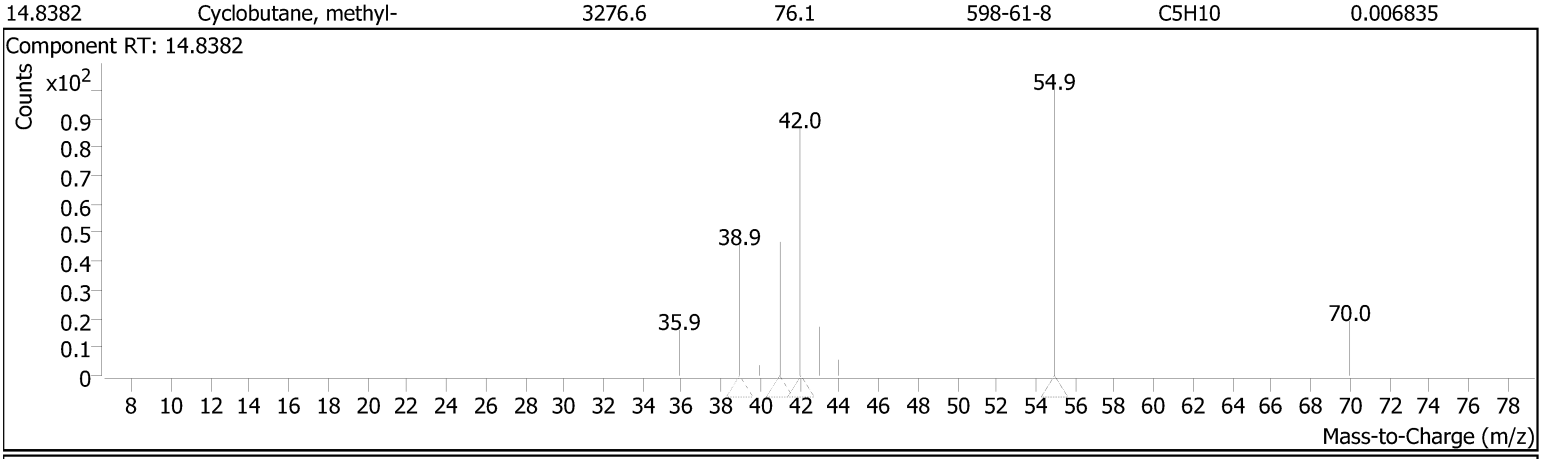



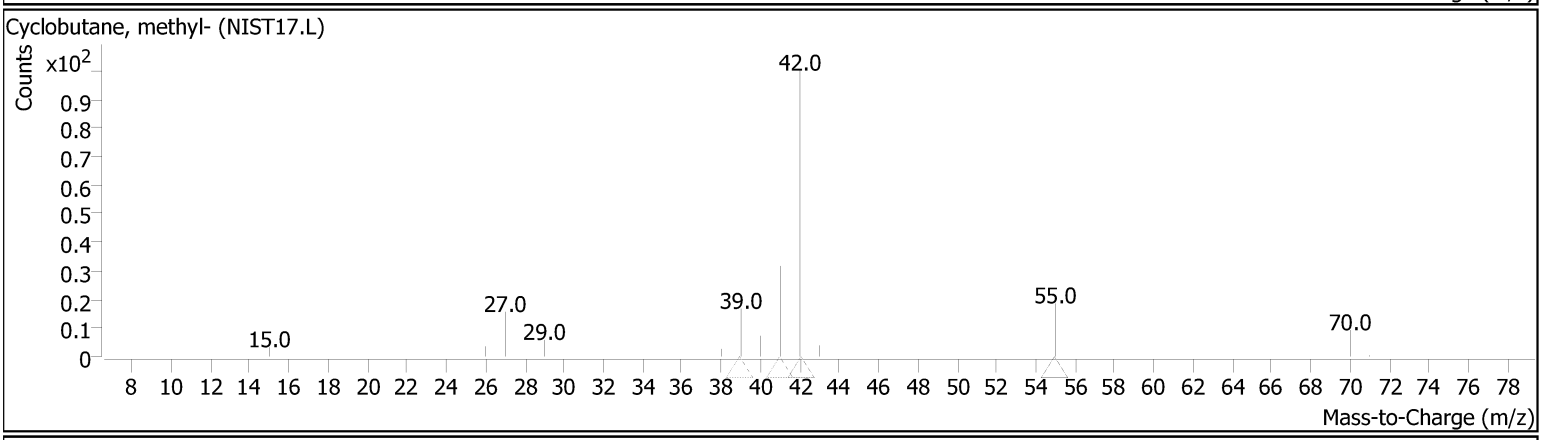



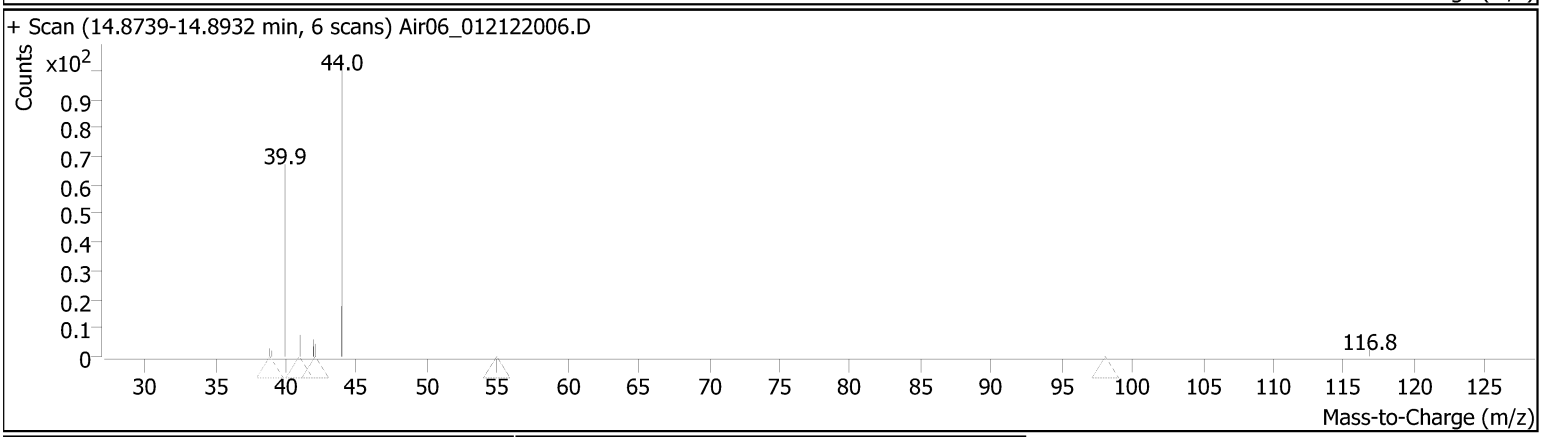



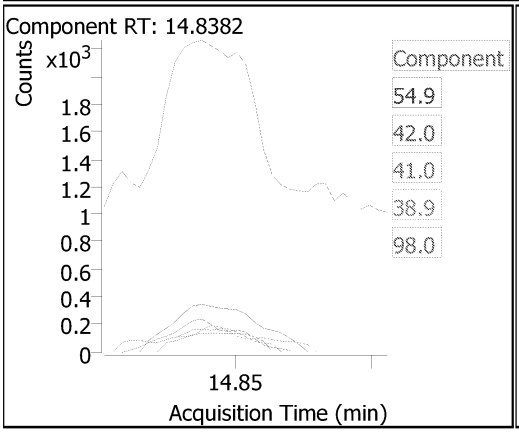



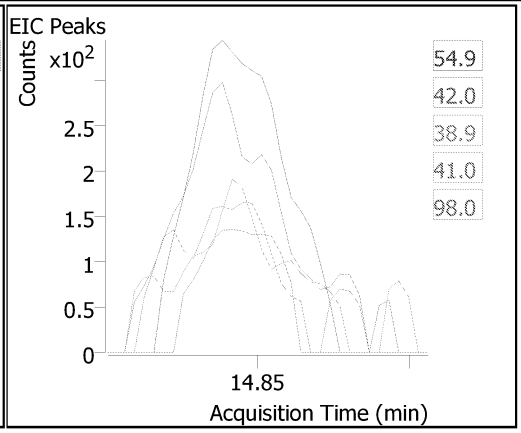
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.8382 | Cyclobutane, methyl- | 3276.6 | 76.1 | 598-61-8 | C5H10 | 0.006835 |

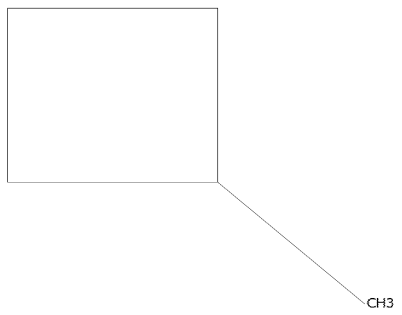


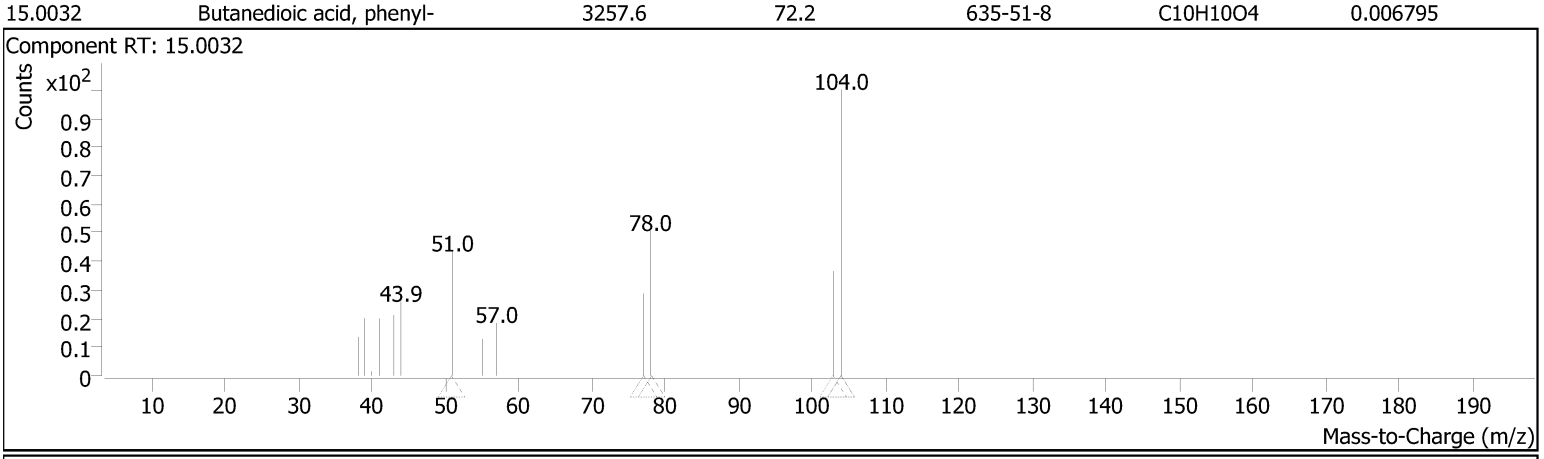



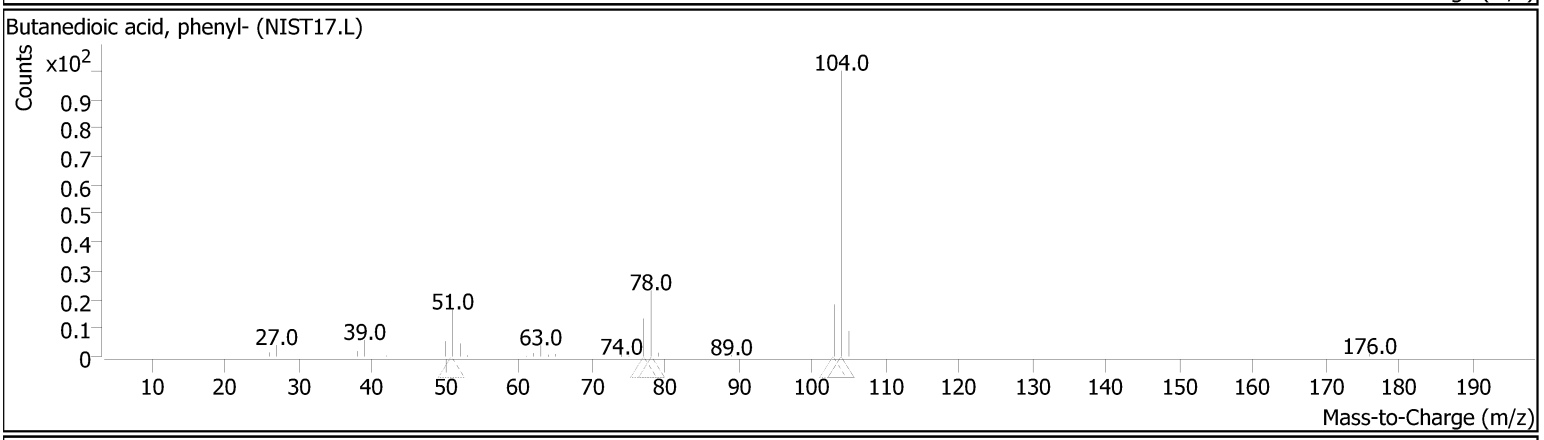



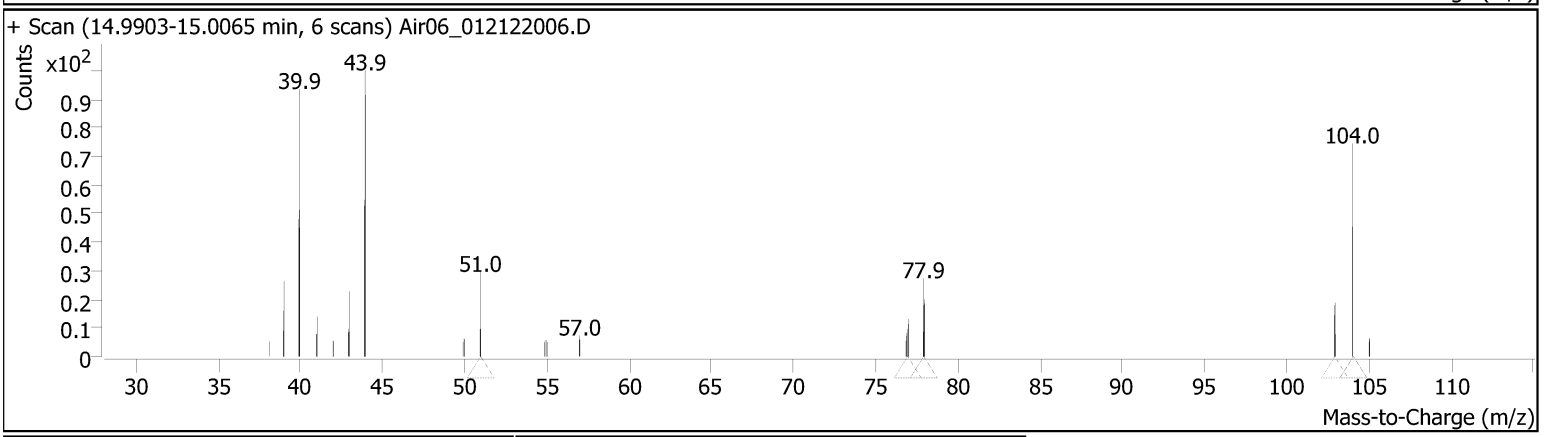



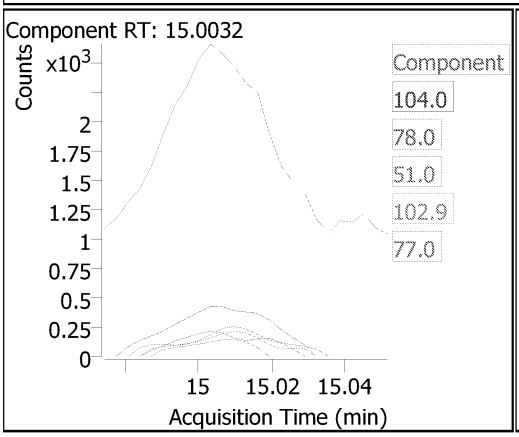



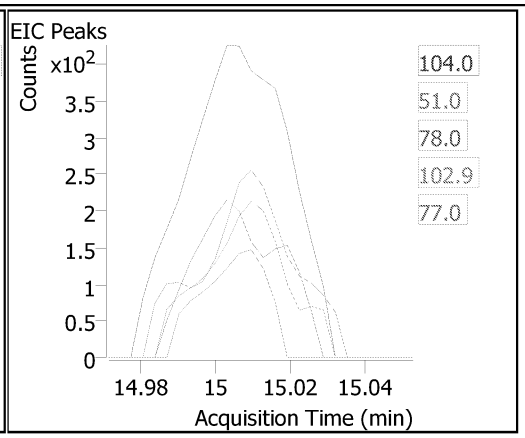
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.0032 | Butanedioic acid, phenyl- | 3257.6 | 72.2 | 635-51-8 | C10H10O4 | 0.006795 |

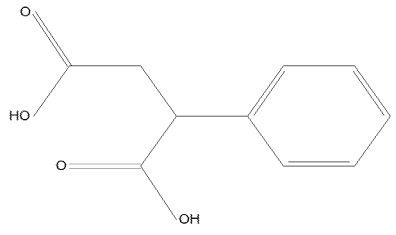


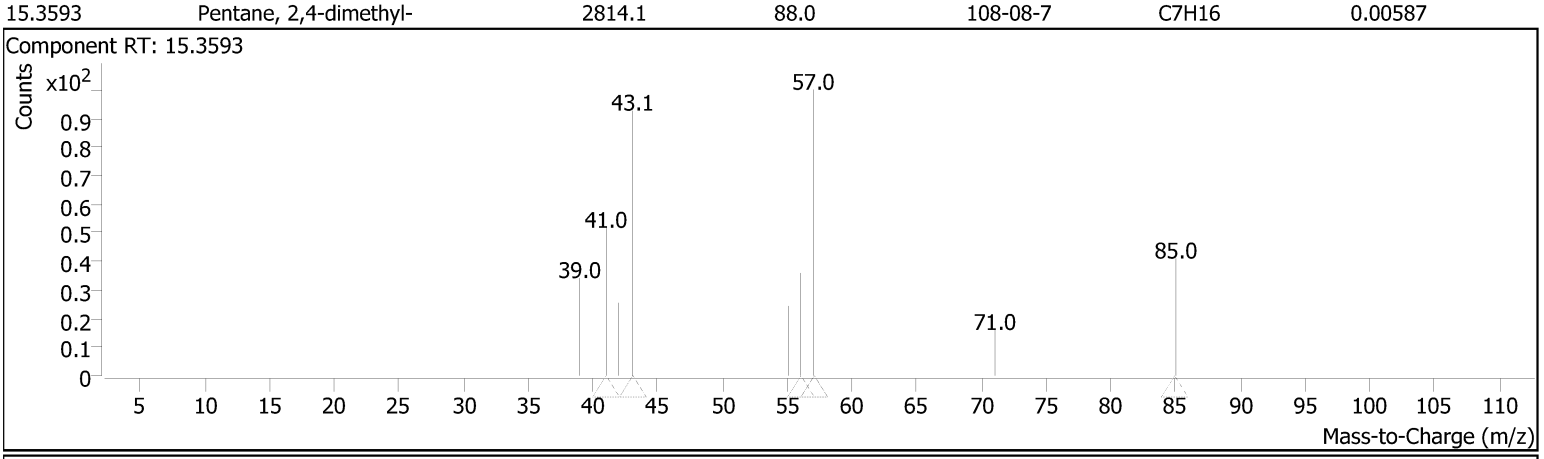



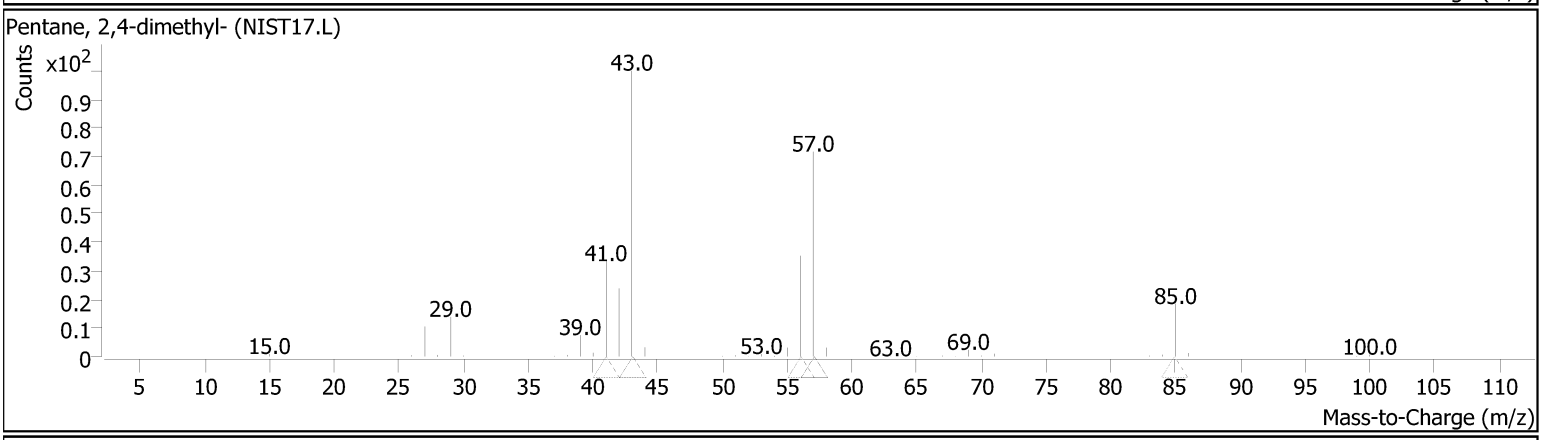



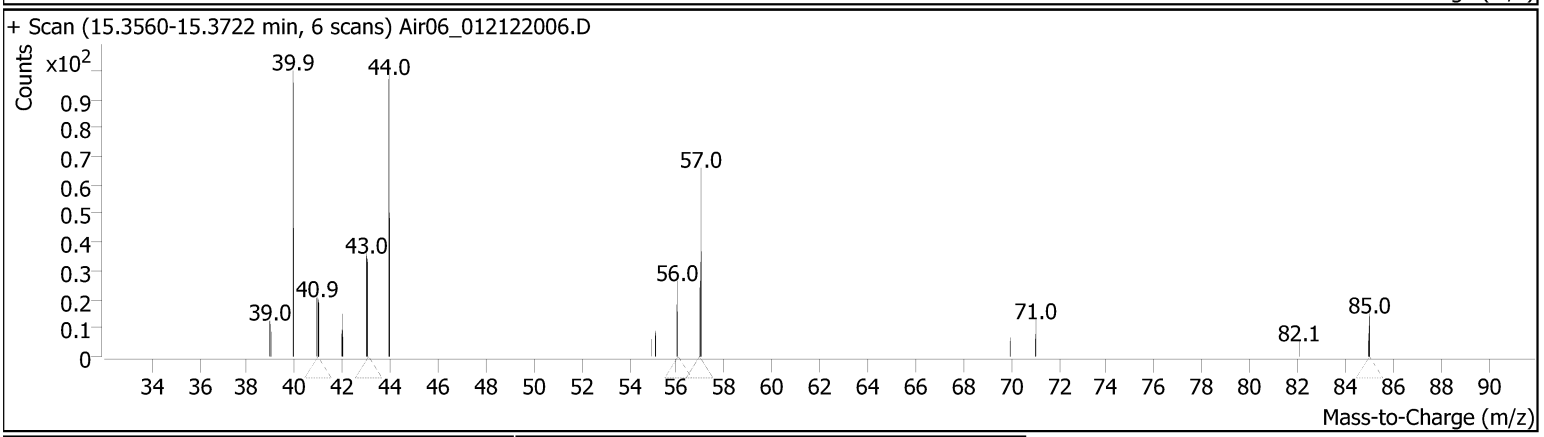



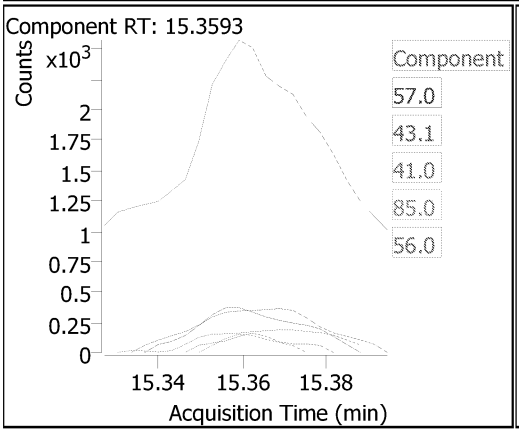



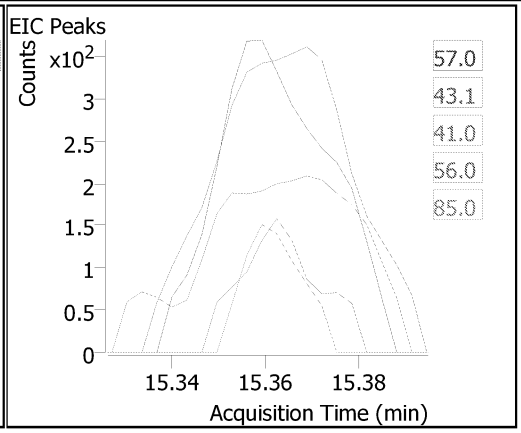
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3593 | Pentane, 2,4-dimethyl- | 2814.1 | 88.0 | 108-08-7 | C7H16 | 0.00587 |

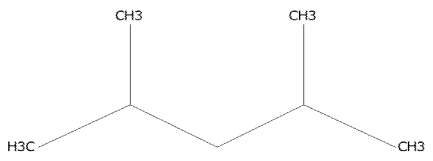


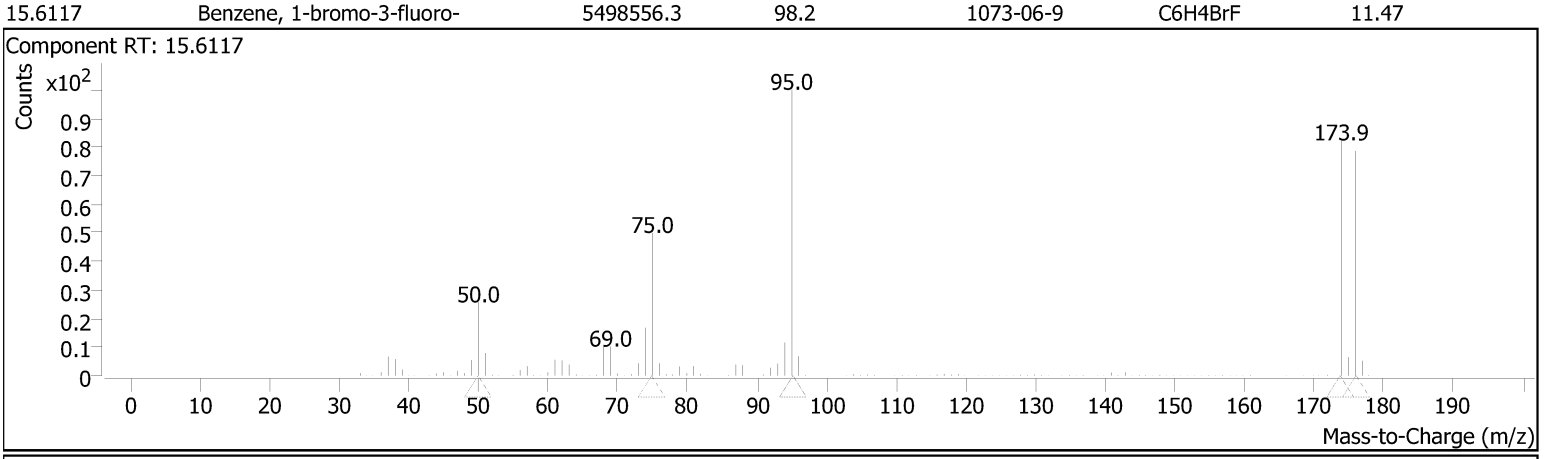



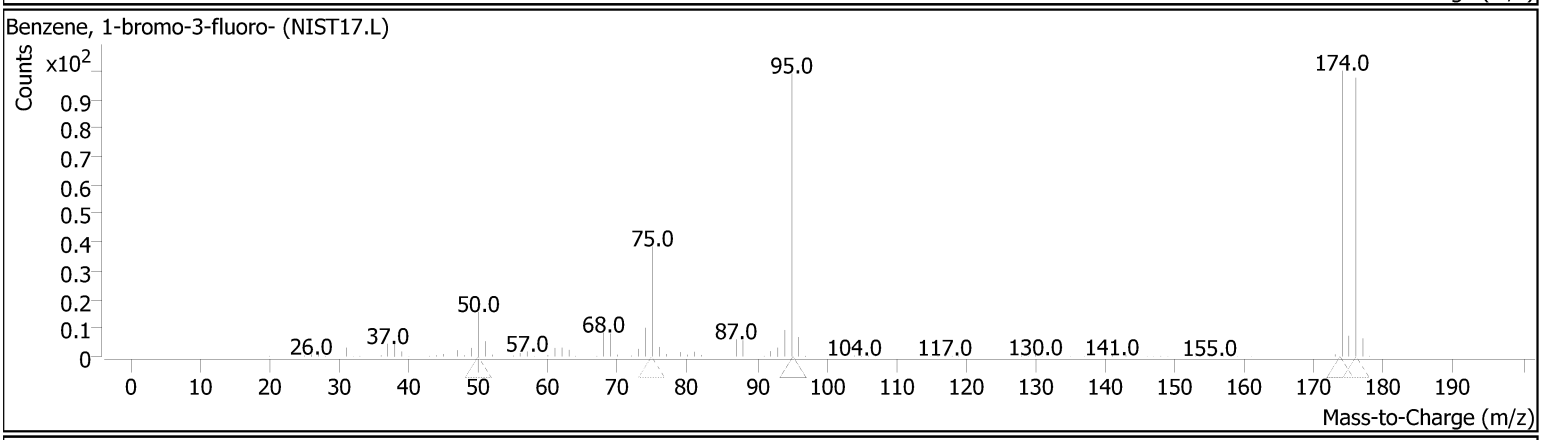



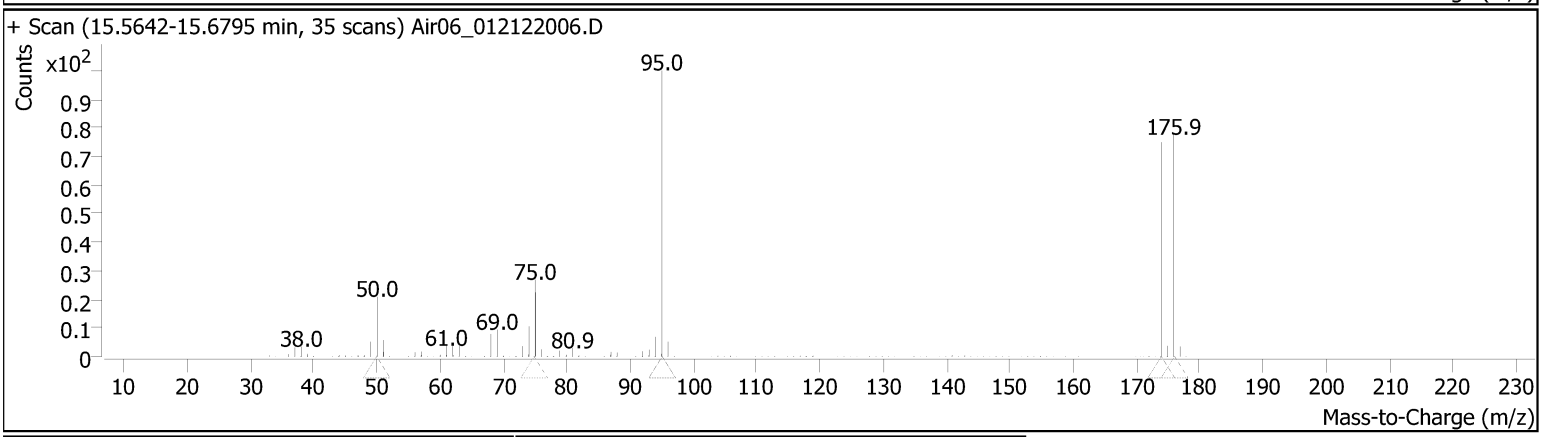



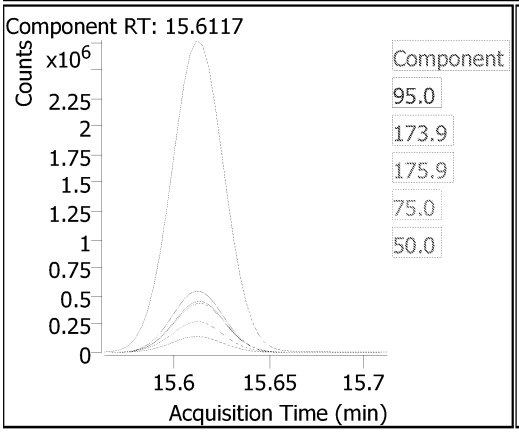



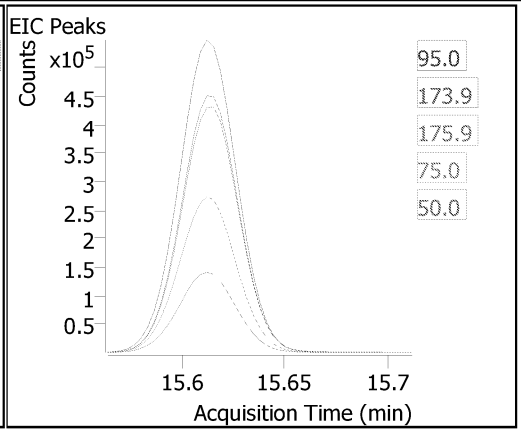
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6117 | Benzene, 1-bromo-3-fluoro- | 5498556.3 | 98.2 | 1073-06-9 | C6H4BrF | 11.47 |

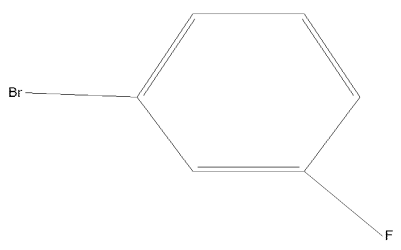


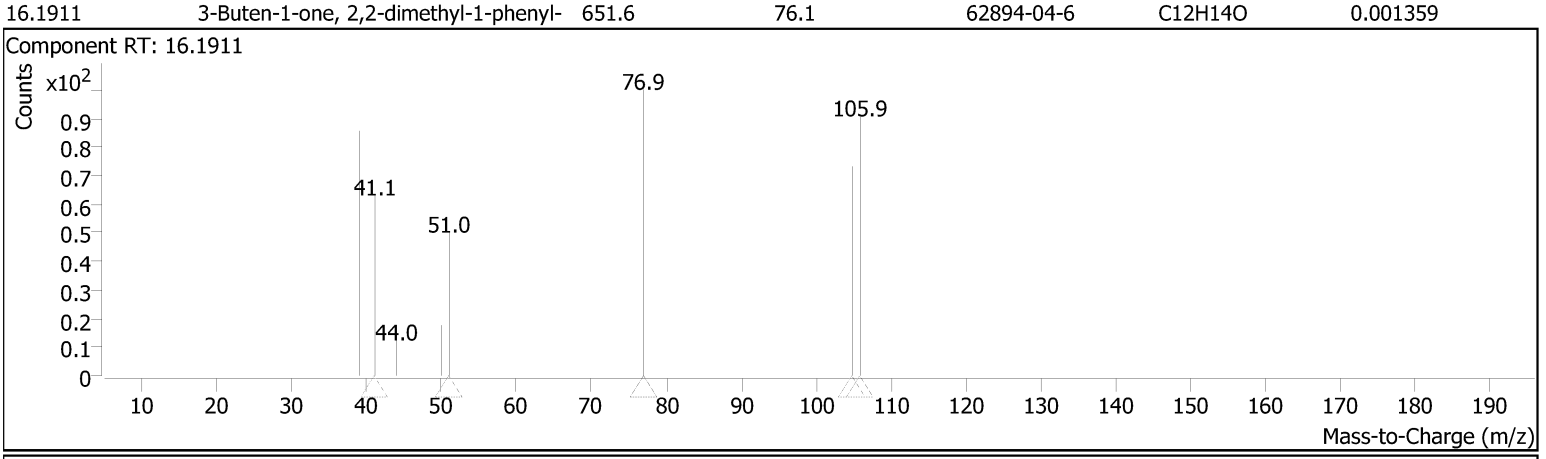



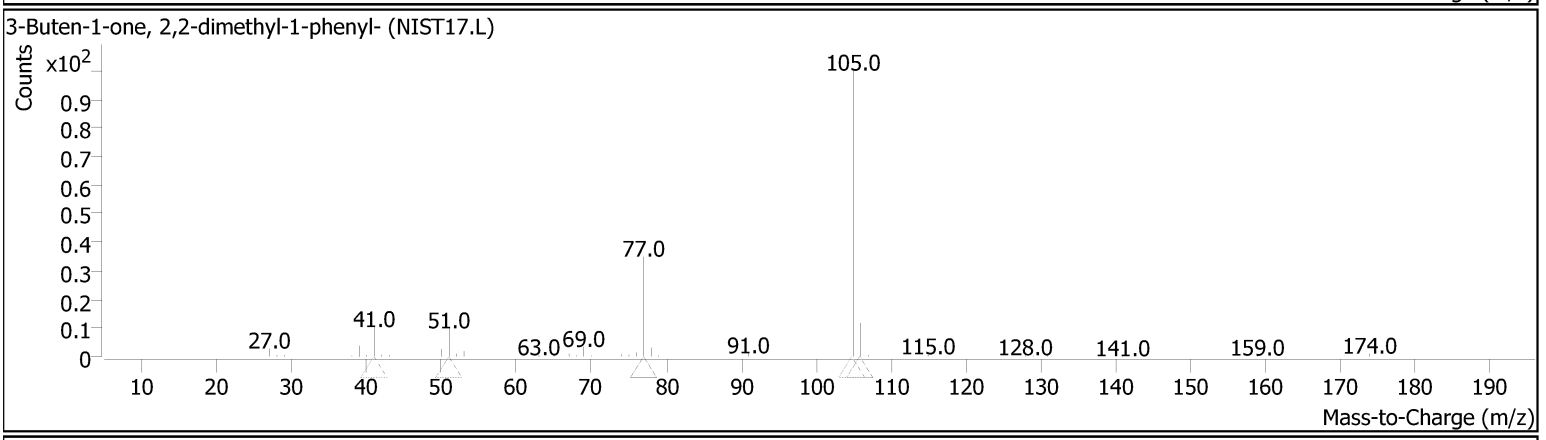



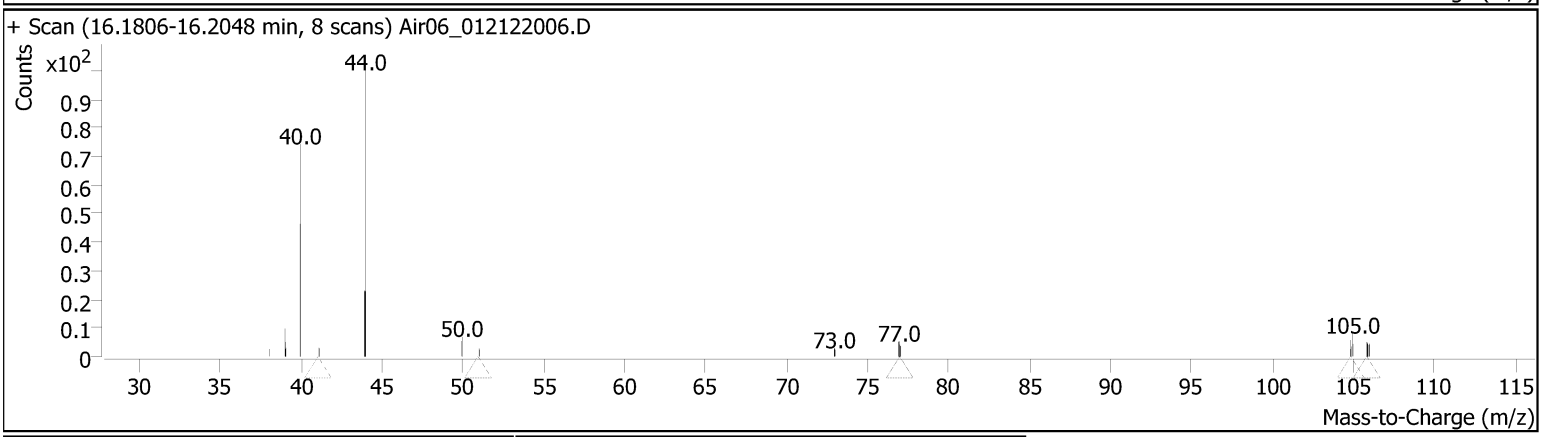



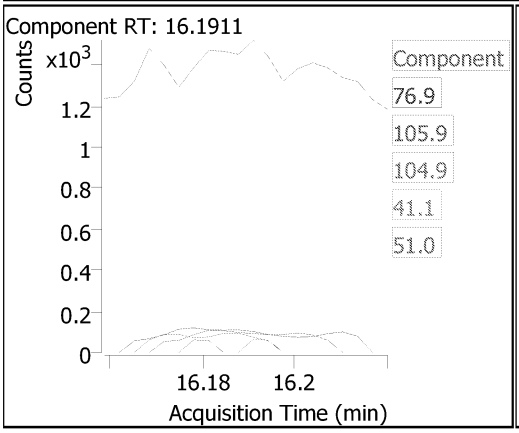



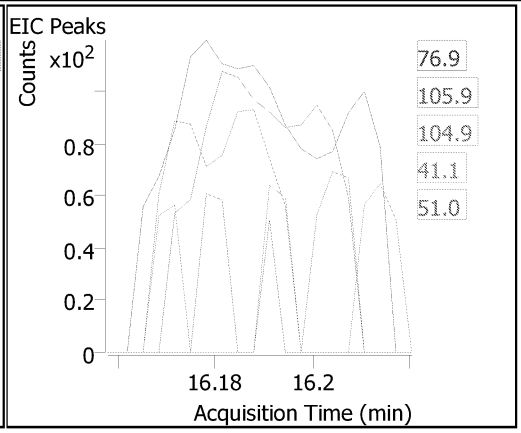
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1911 | 3-Buten-1-one, 2,2-dimethyl-1-phenyl- | 651.6 | 76.1 | 62894-04-6 | C12H14O | 0.001359 |

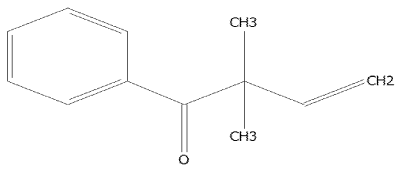


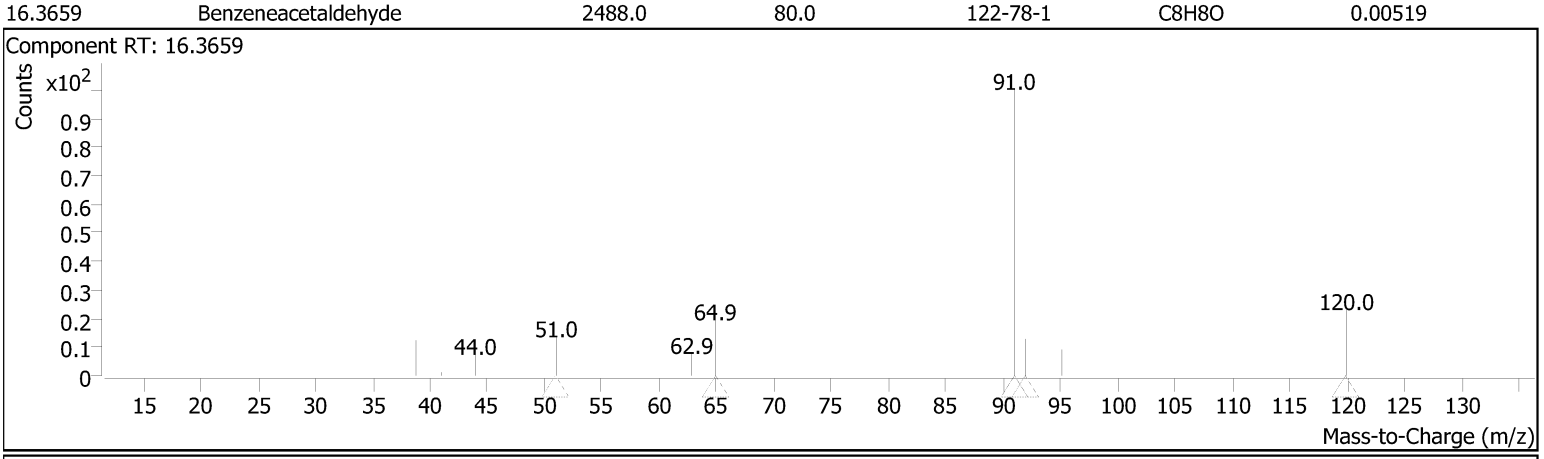



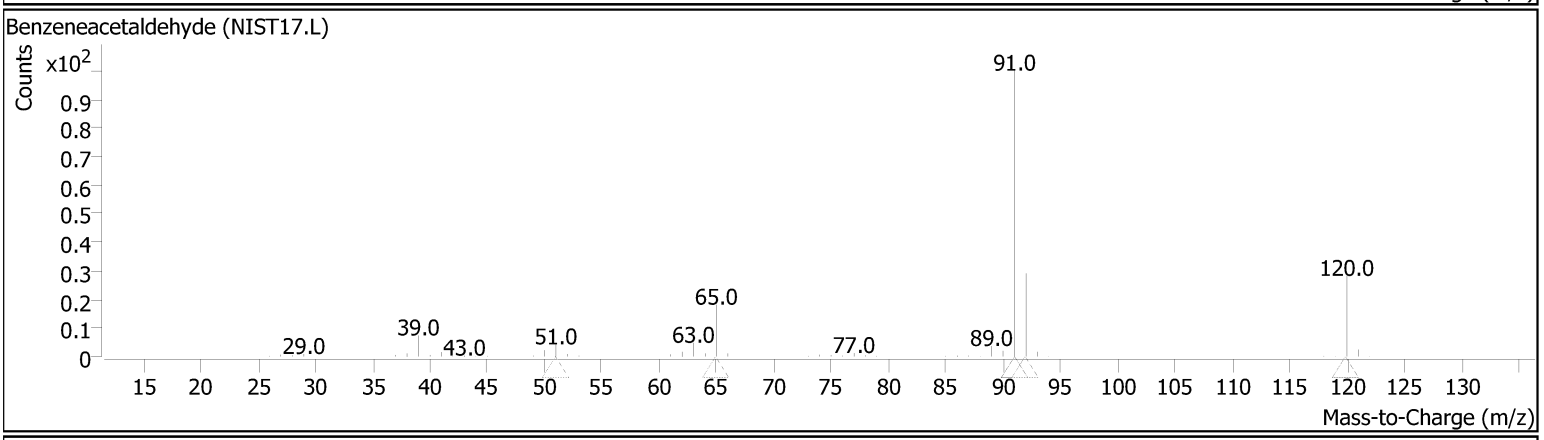



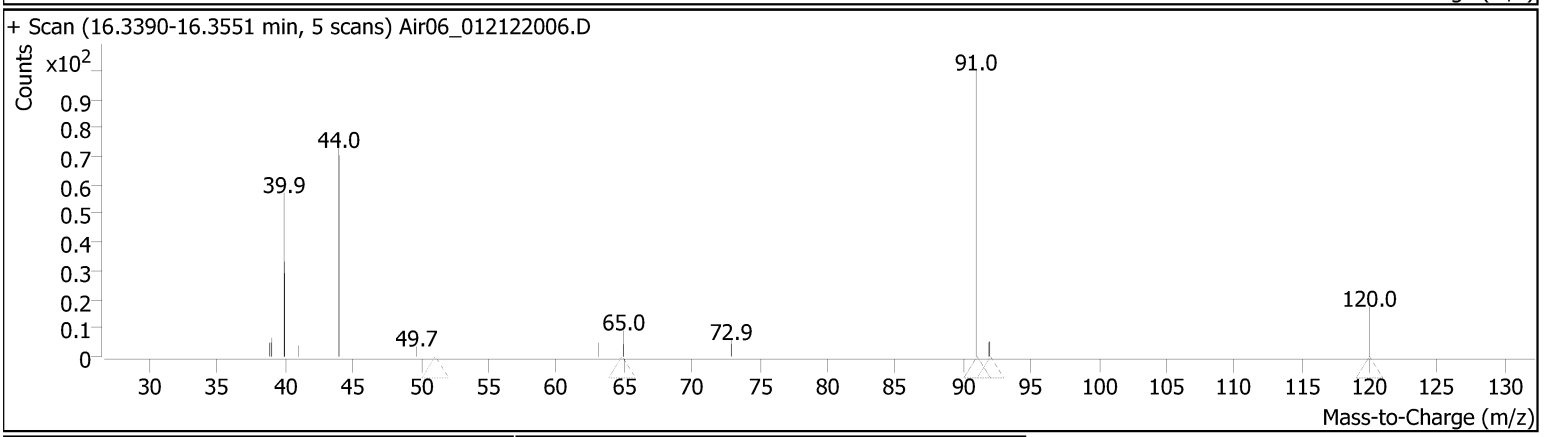



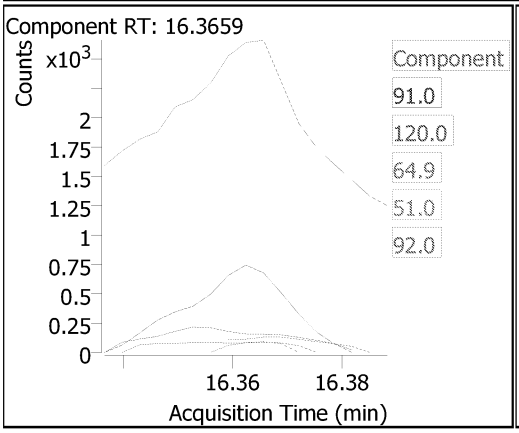



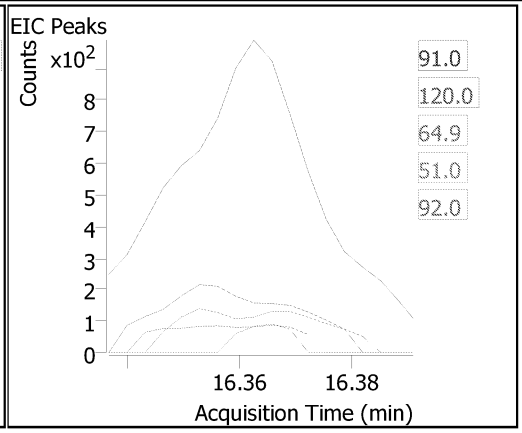
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.3659 | Benzeneacetaldehyde | 2488.0 | 80.0 | 122-78-1 | C8H8O | 0.00519 |

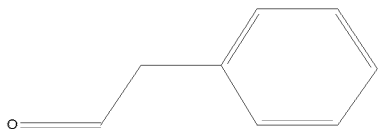


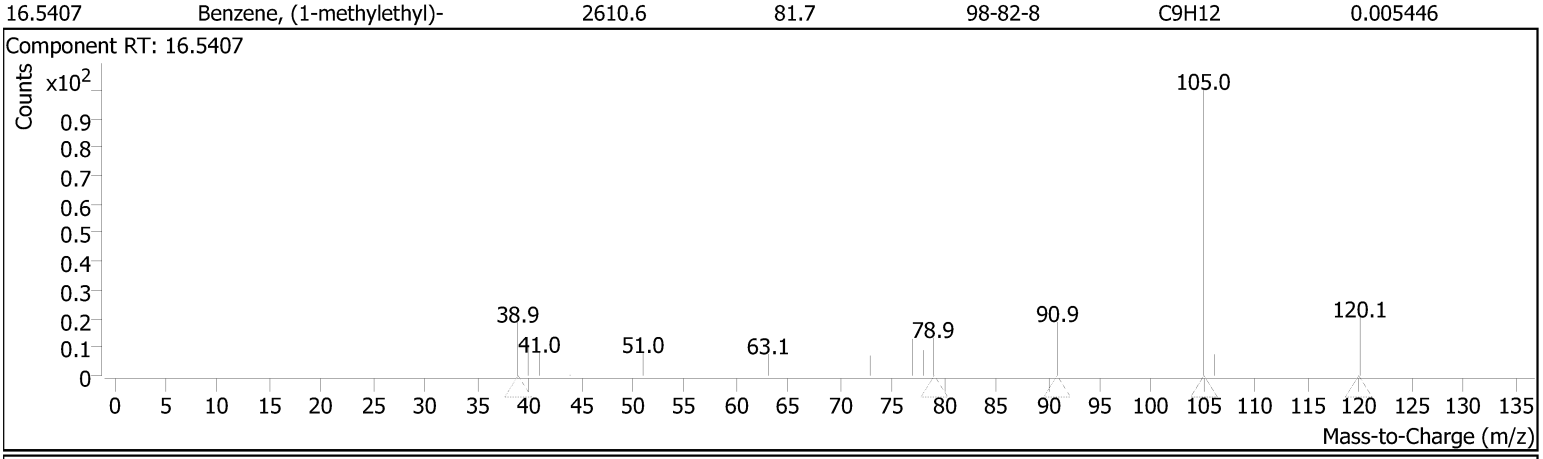



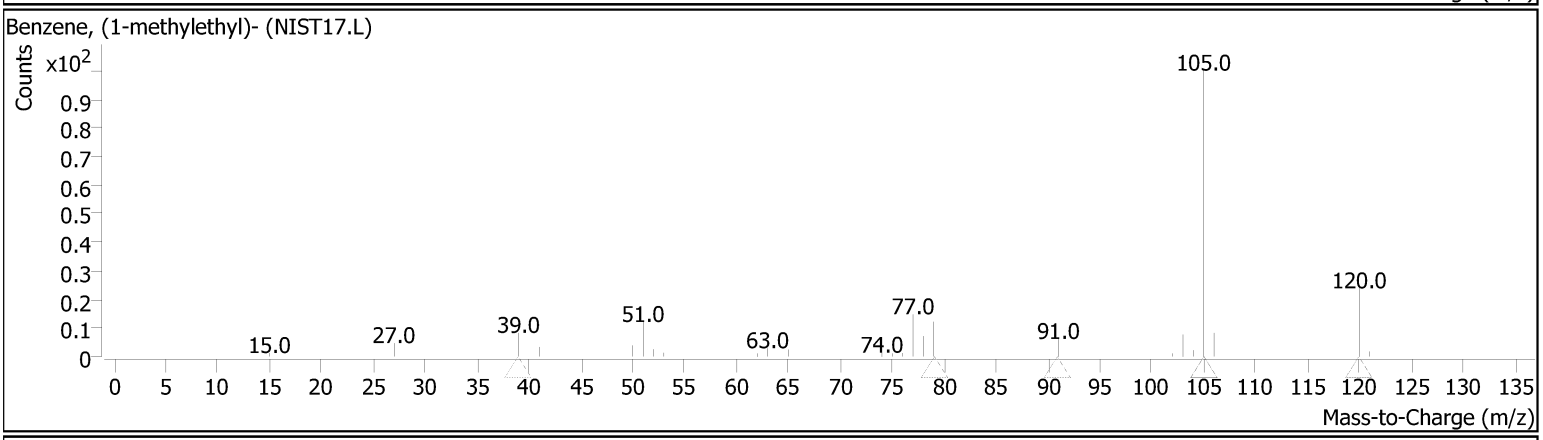



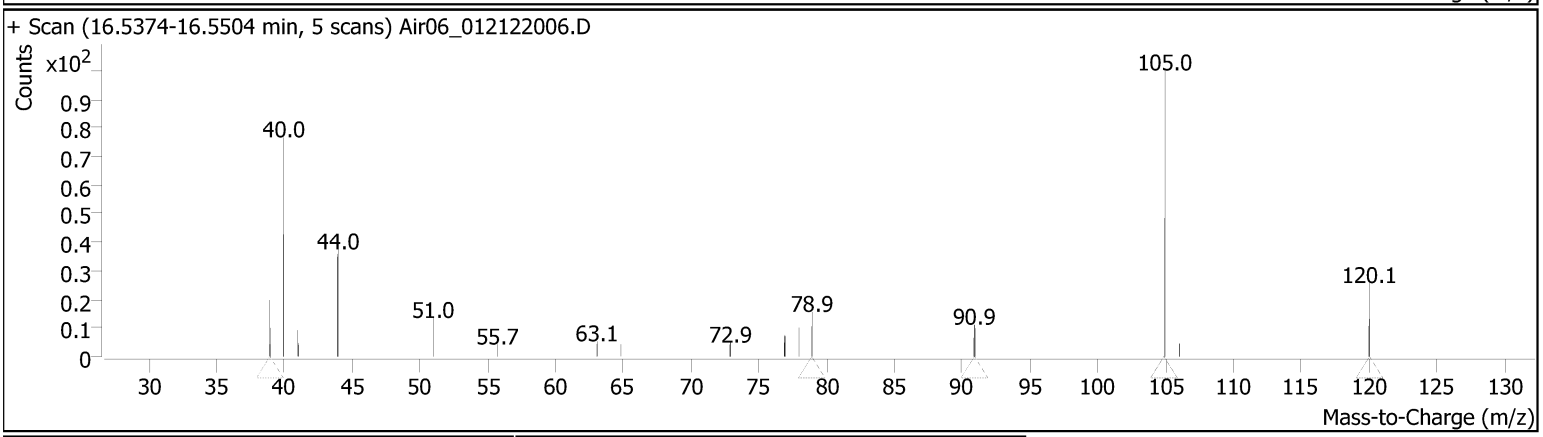



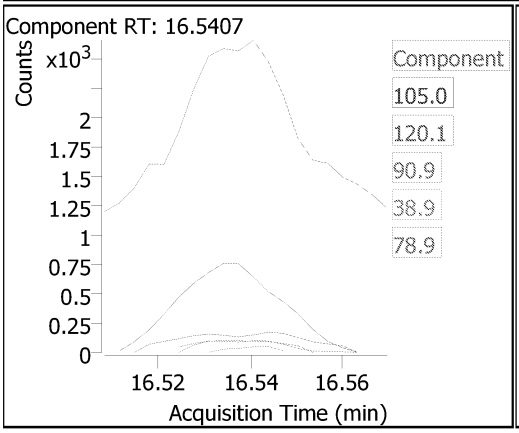



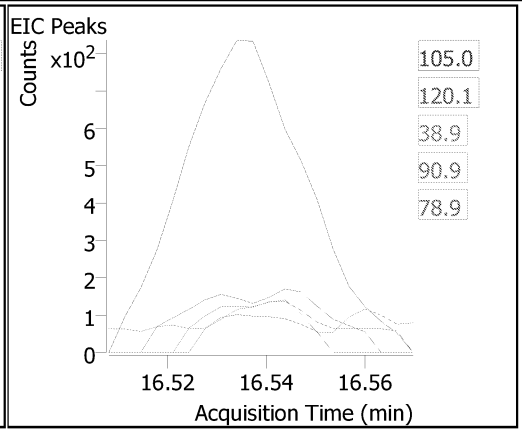
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.5407 | Benzene, (1-methylethyl)- | 2610.6 | 81.7 | 98-82-8 | C9H12 | 0.005446 |

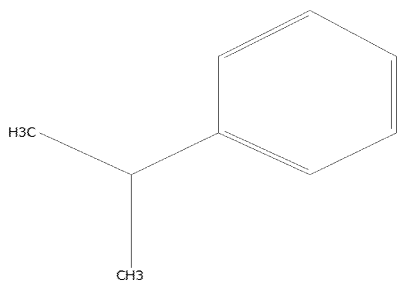


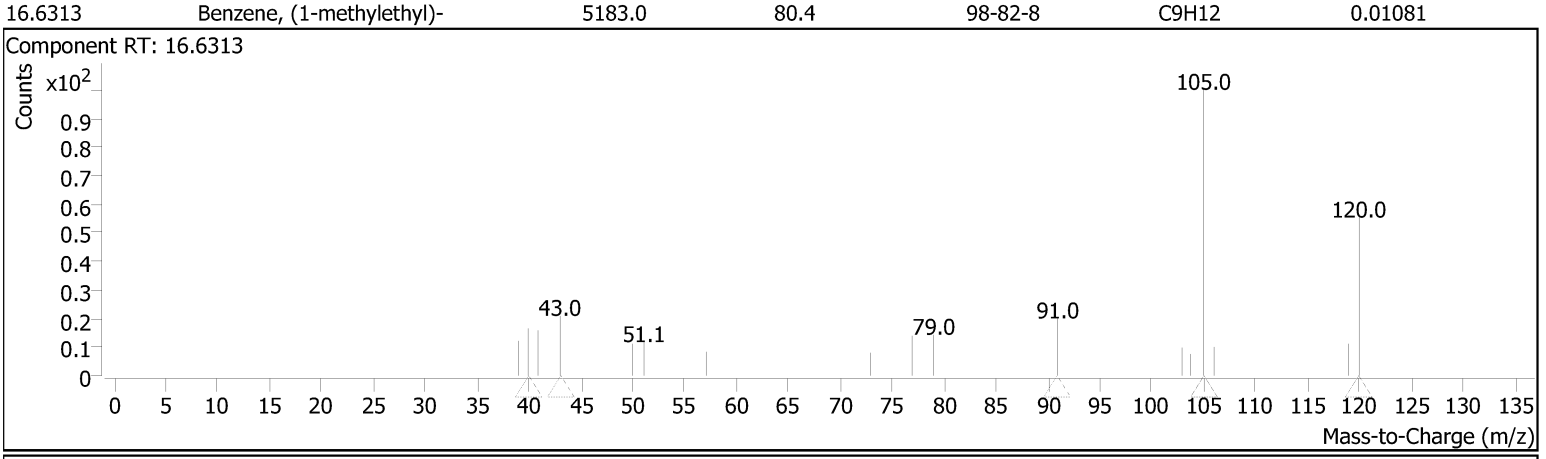



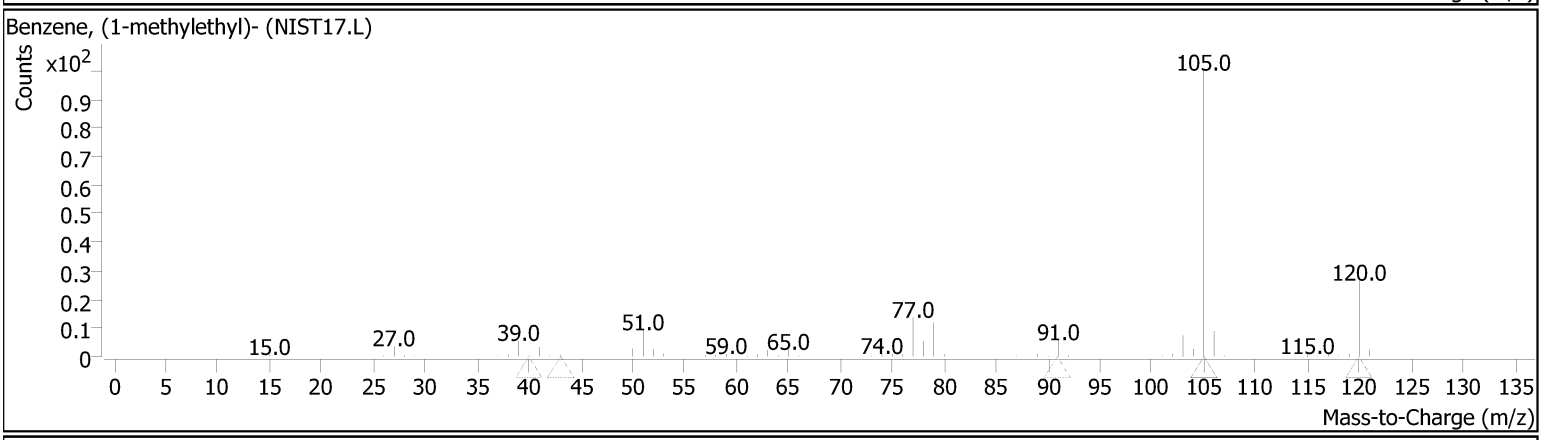



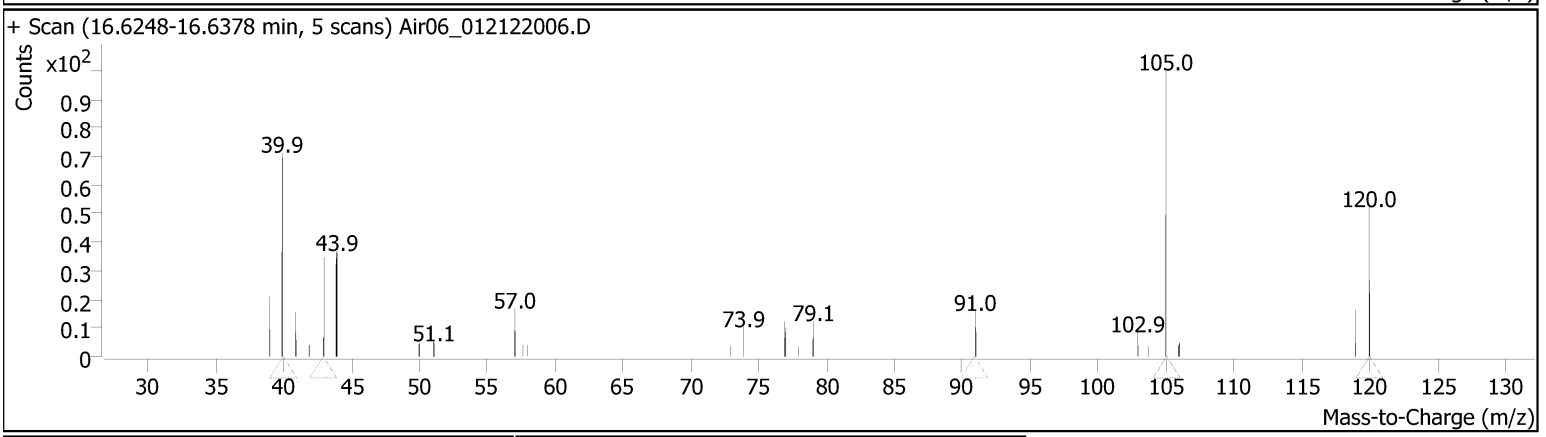



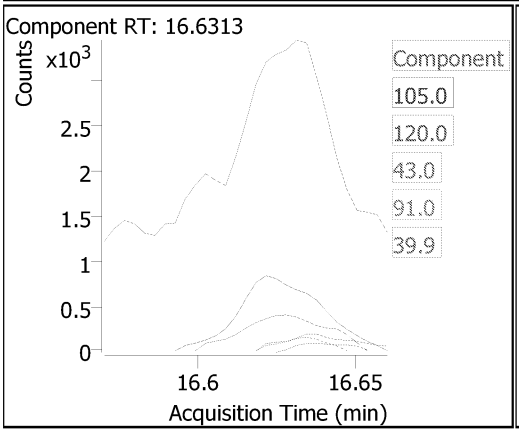



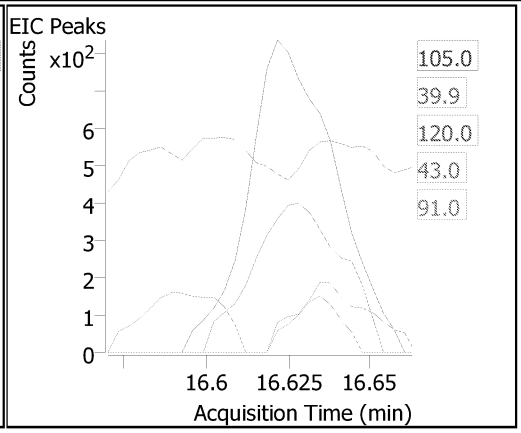
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.6313 | Benzene, (1-methylethyl)- | 5183.0 | 80.4 | 98-82-8 | C9H12 | 0.01081 |

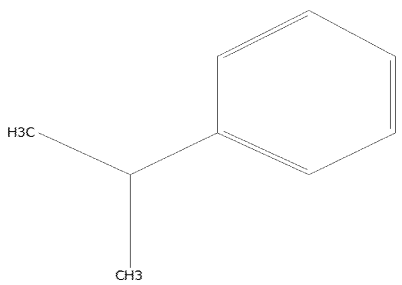


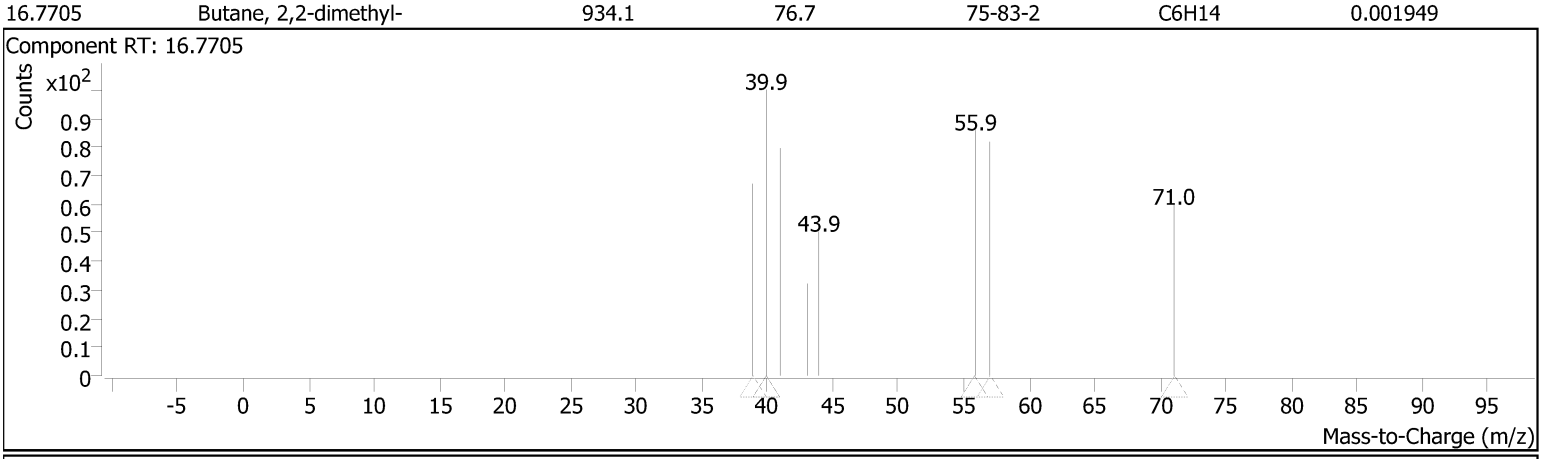



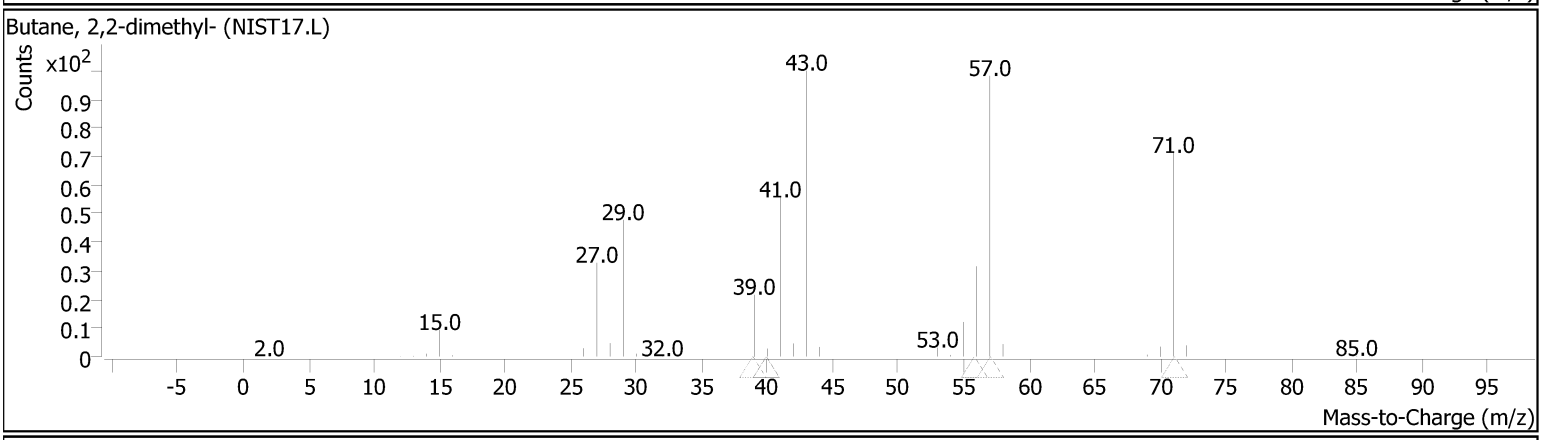



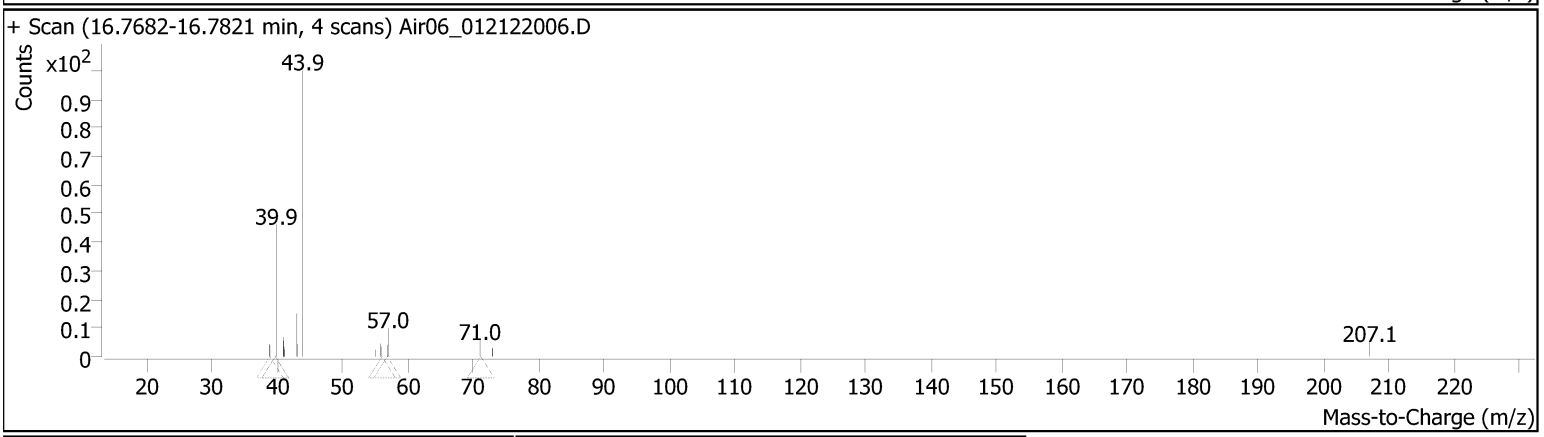



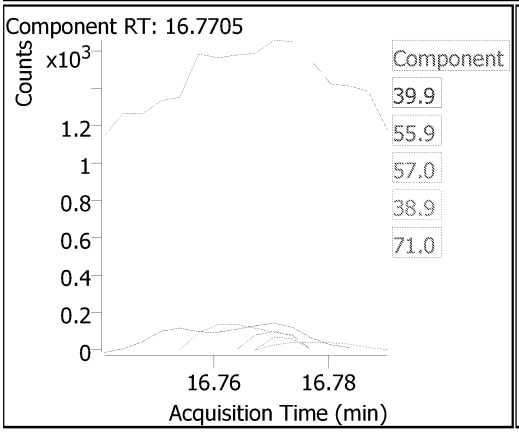



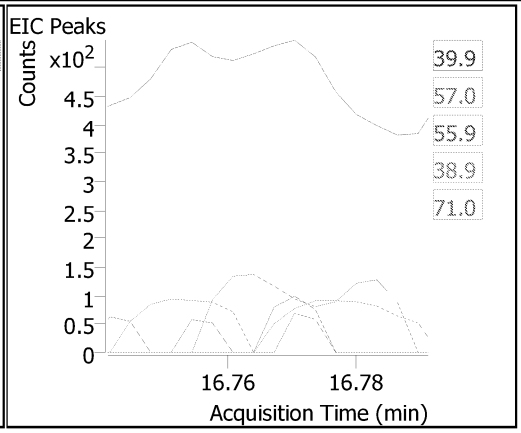
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.7705 | Butane, 2,2-dimethyl- | 934.1 | 76.7 | 75-83-2 | C6H14 | 0.001949 |

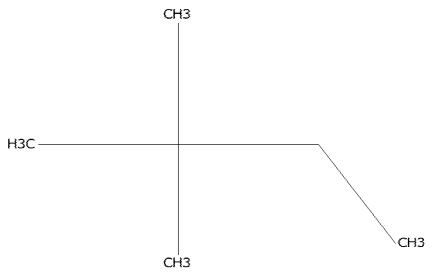


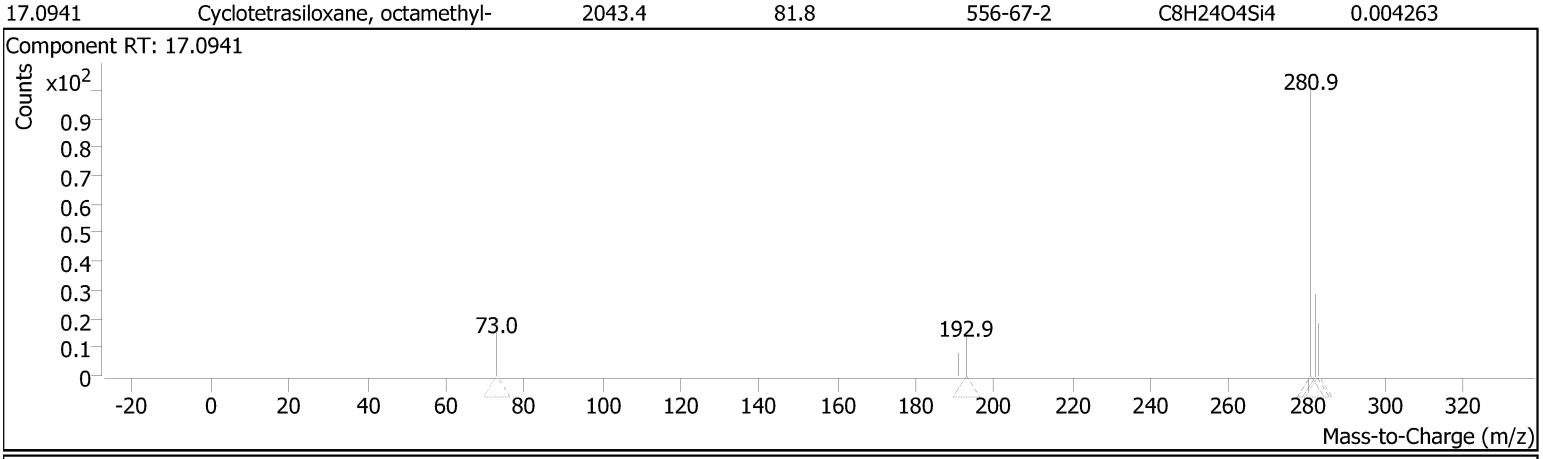



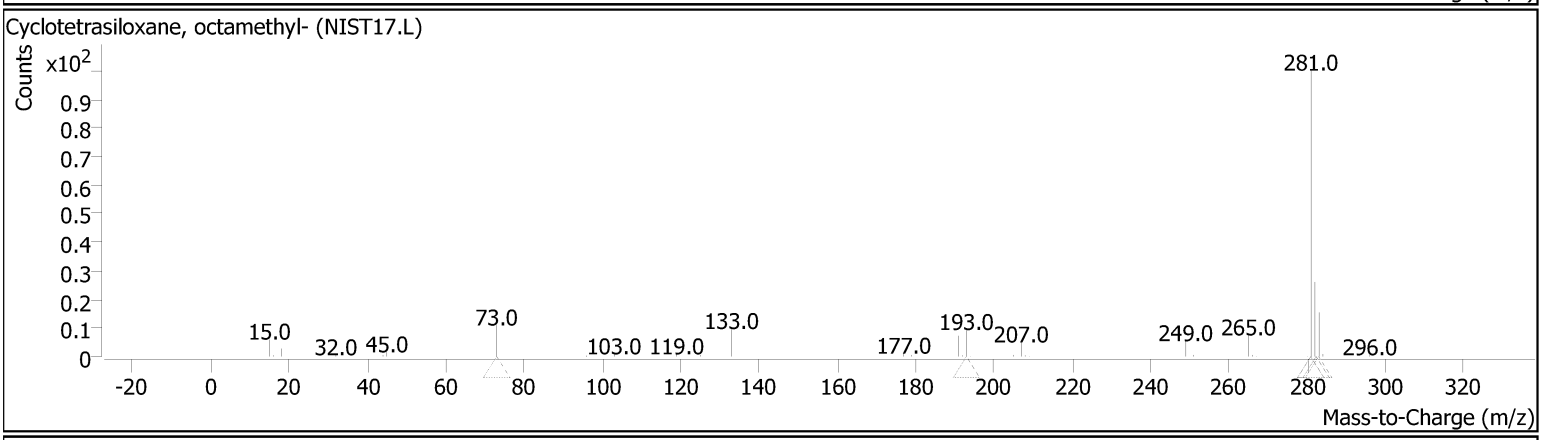



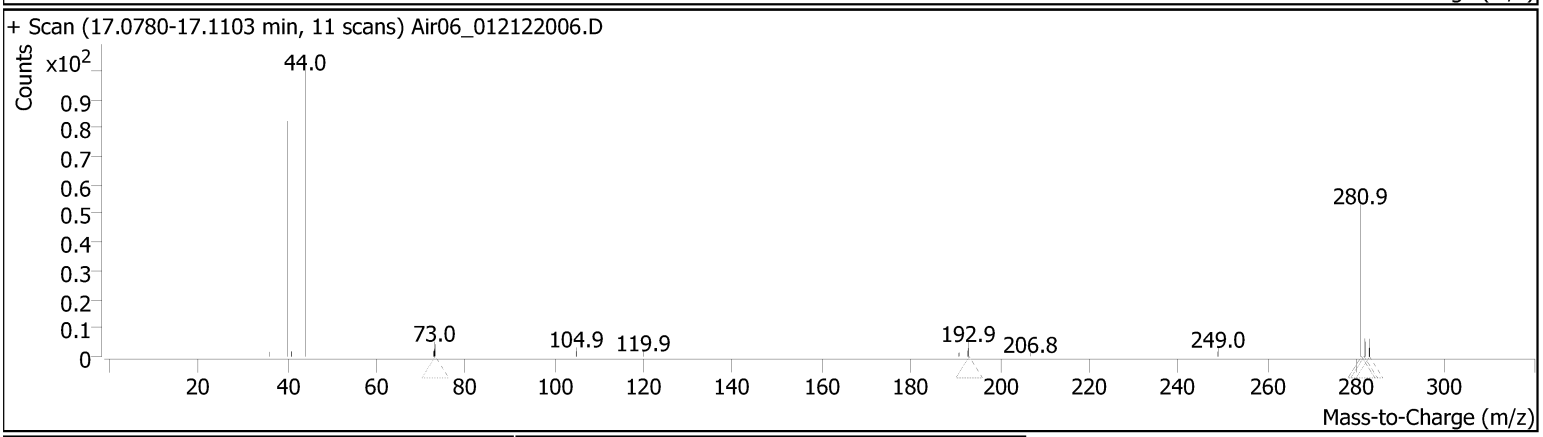



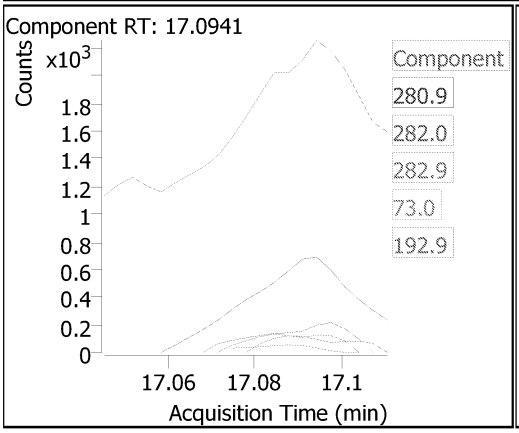



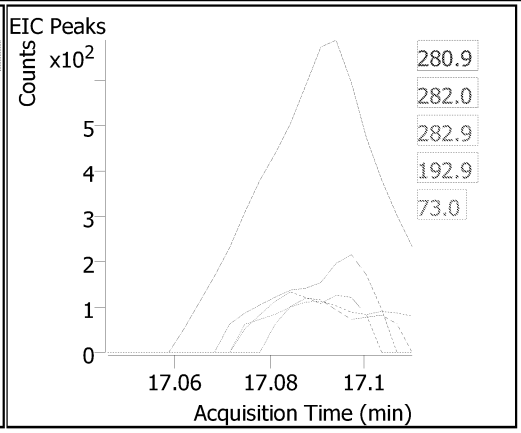
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.0941 | Cyclotetrasiloxane, octamethyl- | 2043.4 | 81.8 | 556-67-2 | C8H24O4Si4 | 0.004263 |

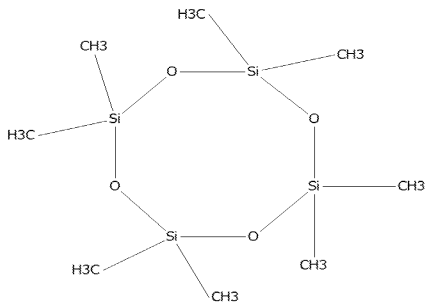


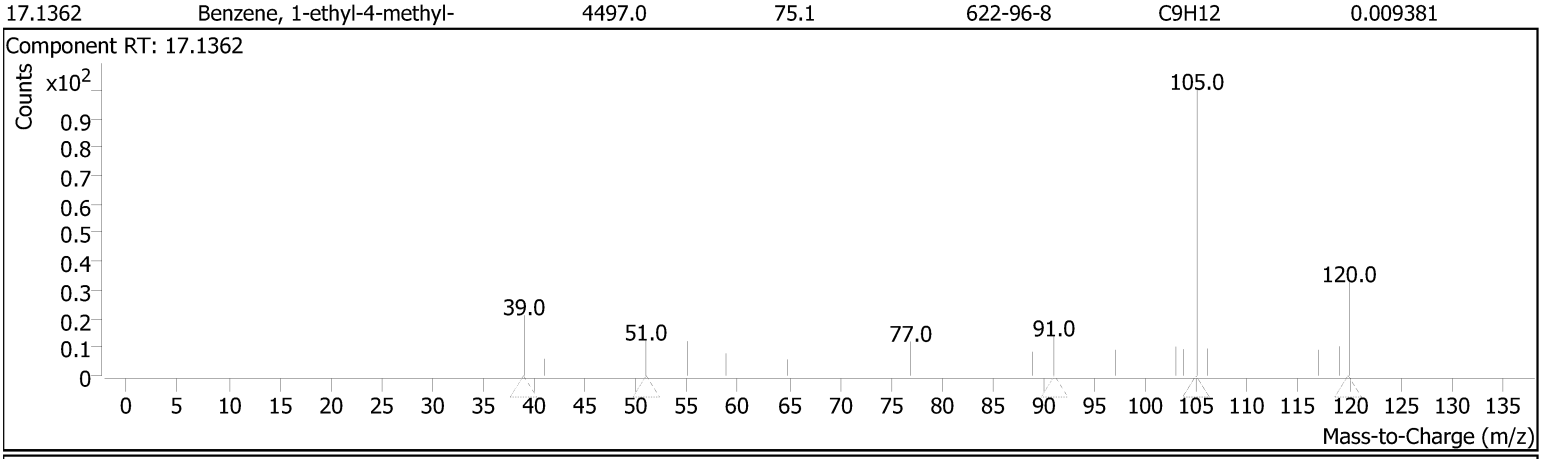



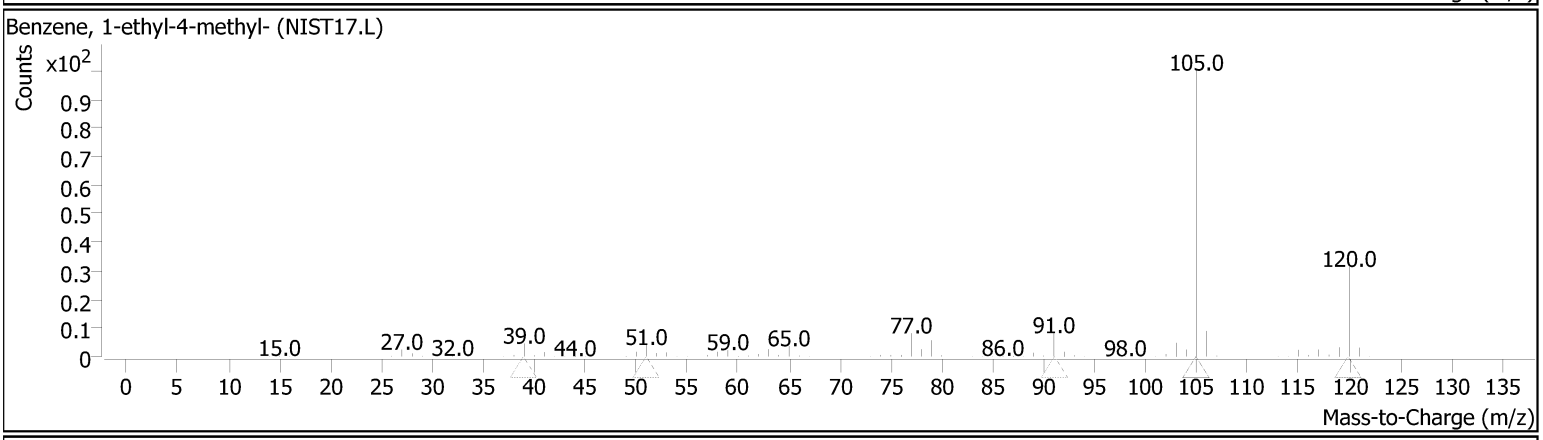



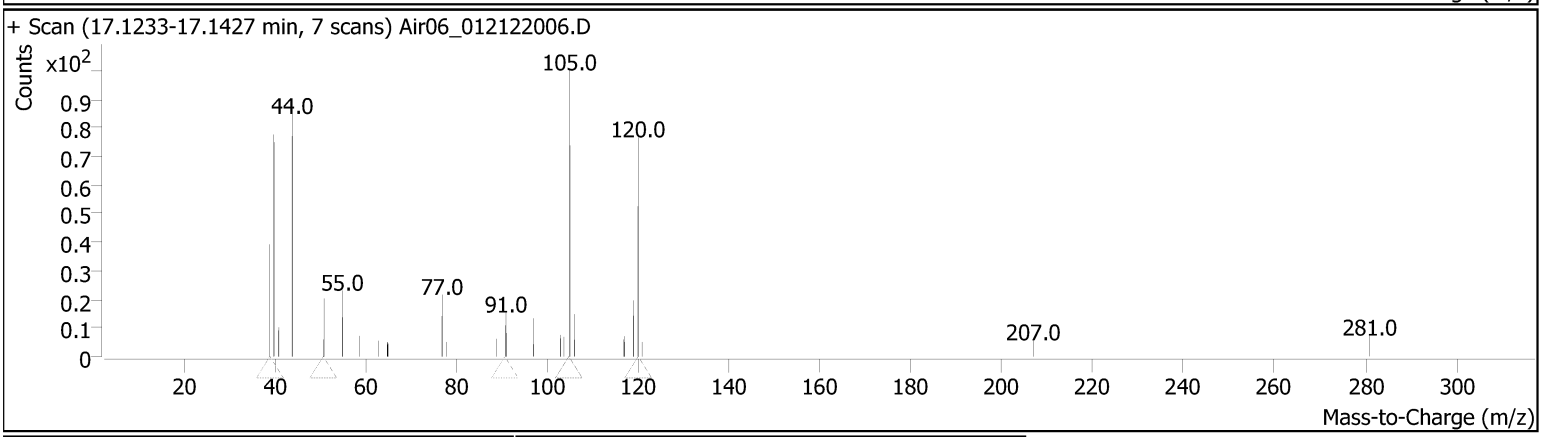



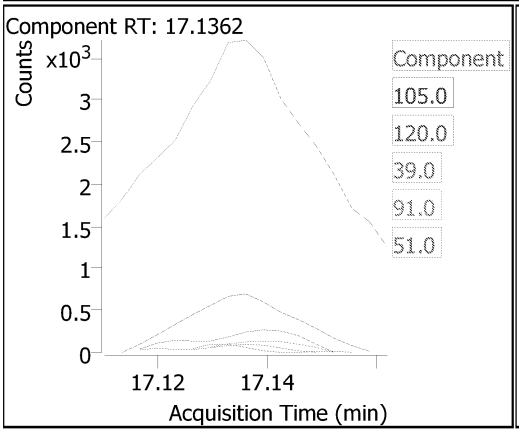



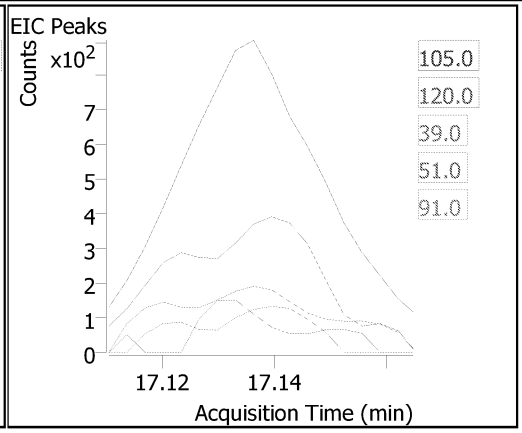
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.1362 | Benzene, 1-ethyl-4-methyl- | 4497.0 | 75.1 | 622-96-8 | C9H12 | 0.009381 |

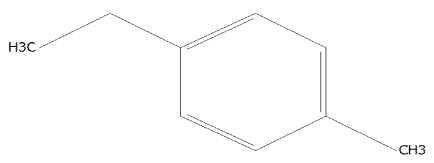


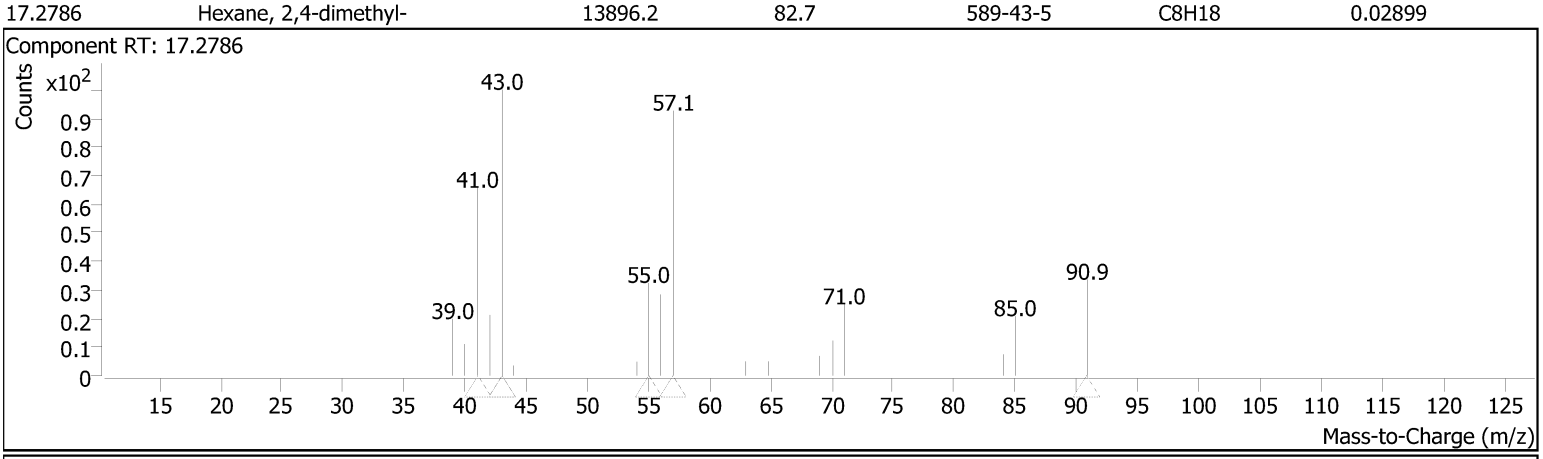



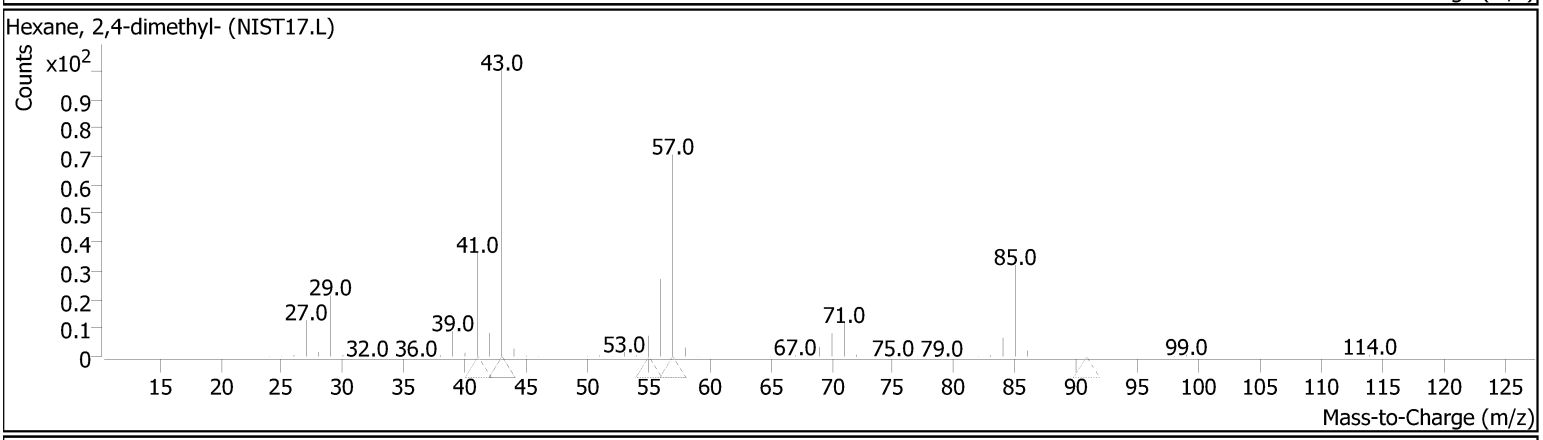



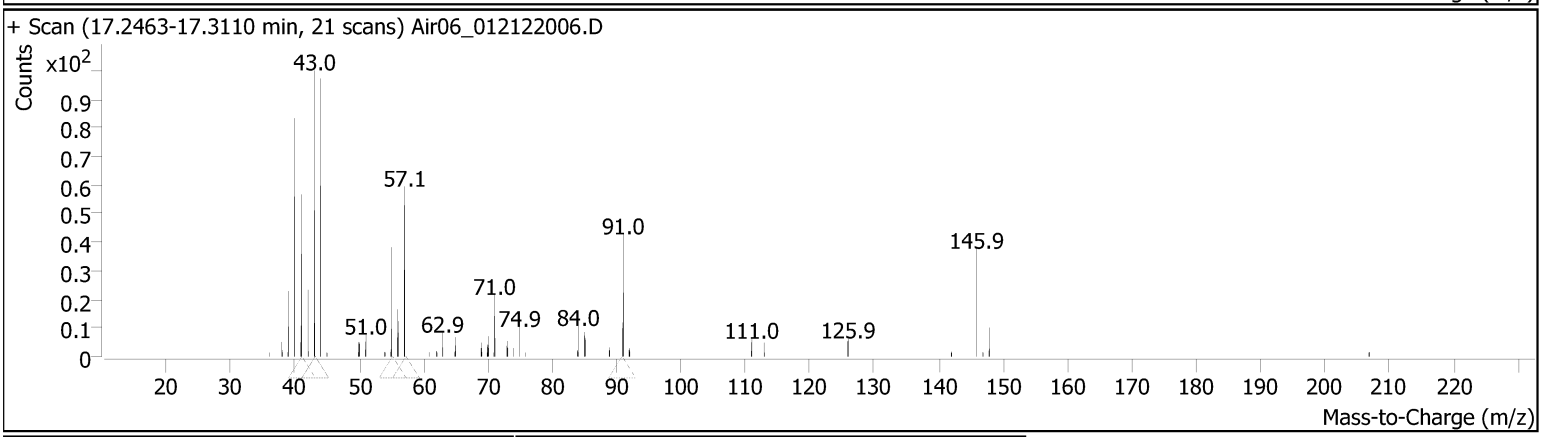



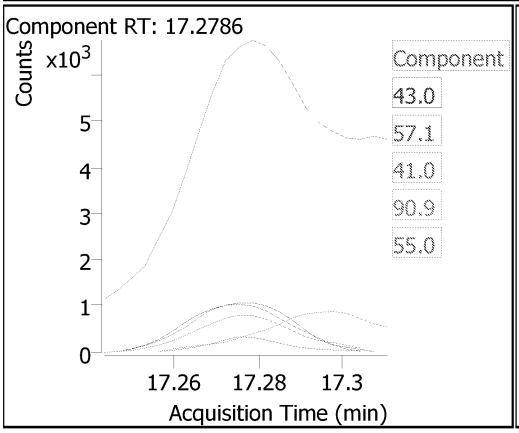



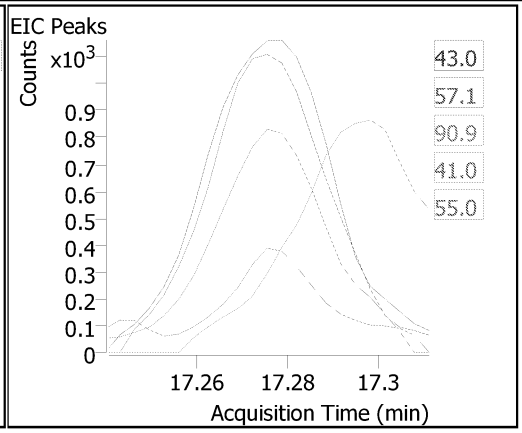
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.2786 | Hexane, 2,4-dimethyl- | 13896.2 | 82.7 | 589-43-5 | C8H18 | 0.02899 |

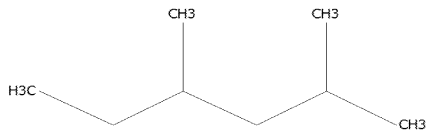


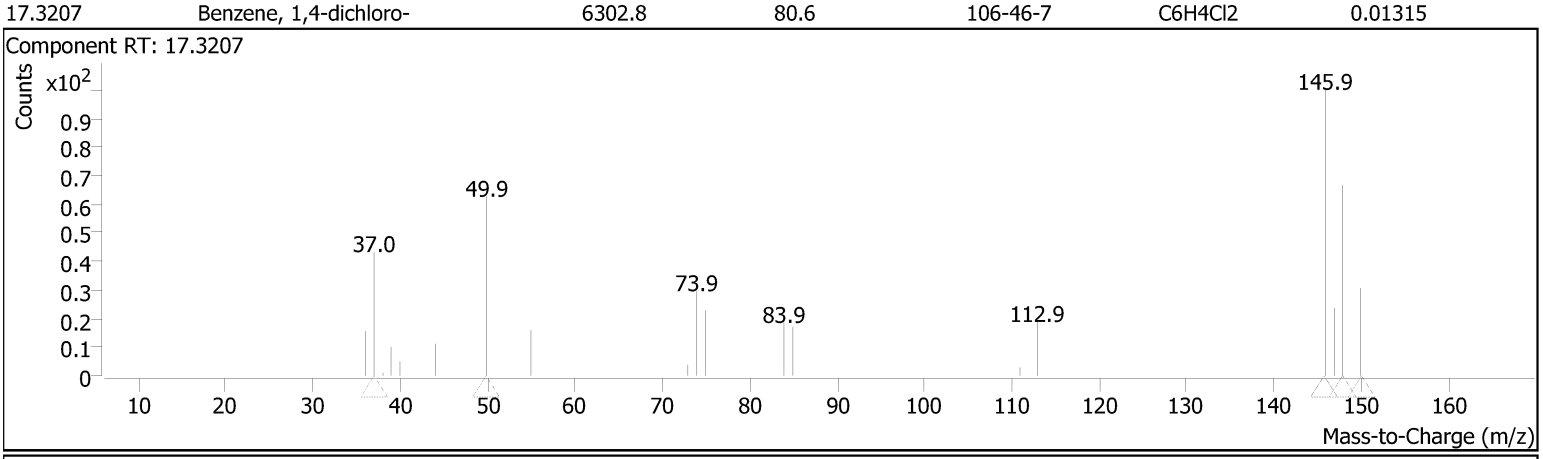



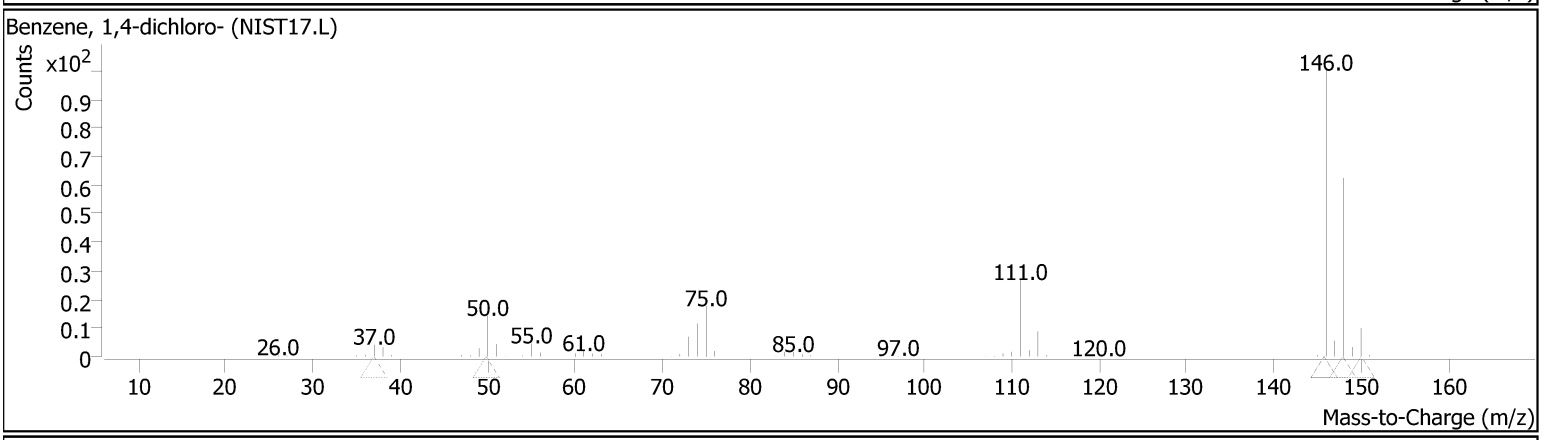



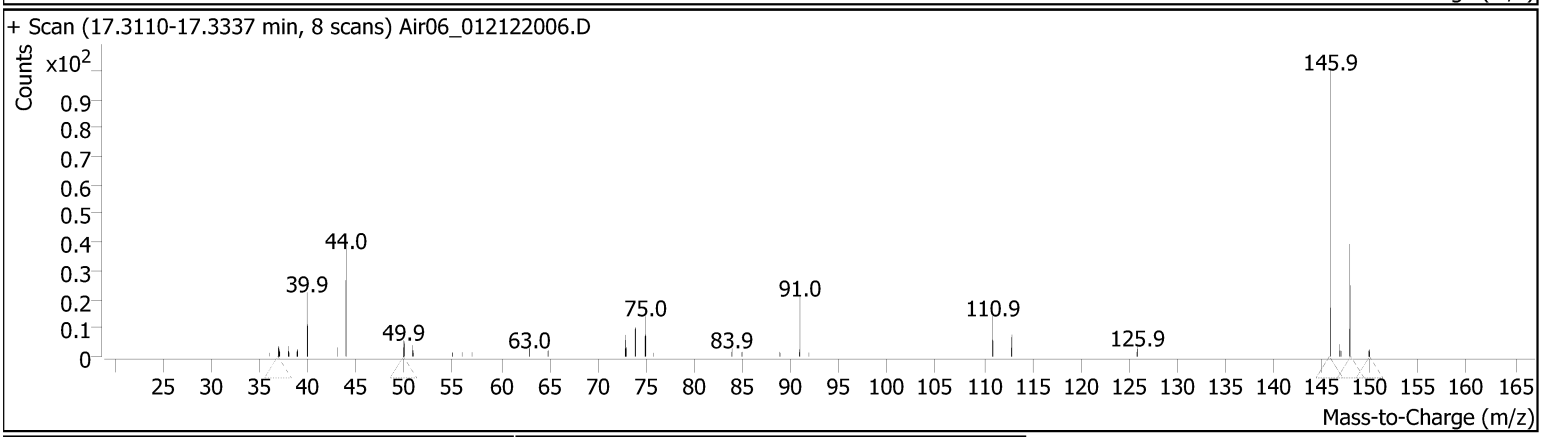



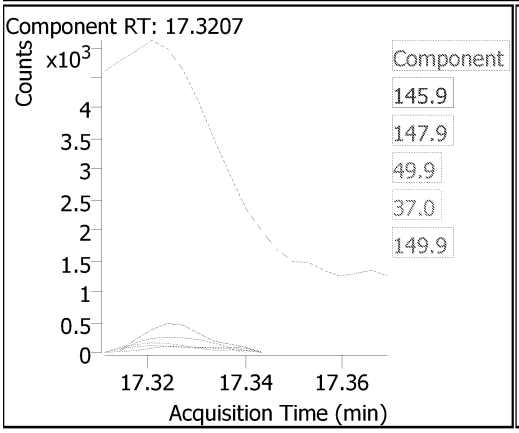



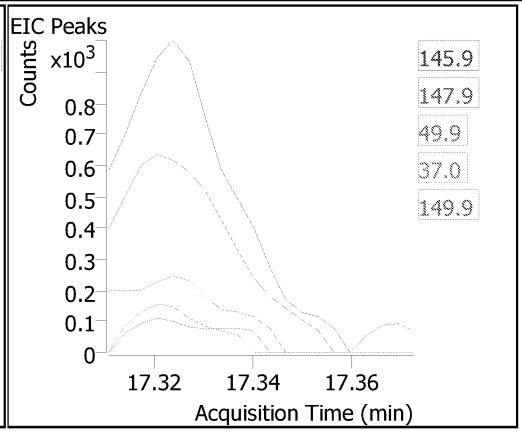
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.3207 | Benzene, 1,4-dichloro- | 6302.8 | 80.6 | 106-46-7 | C6H4Cl2 | 0.01315 |

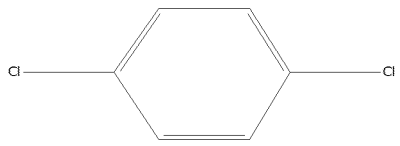


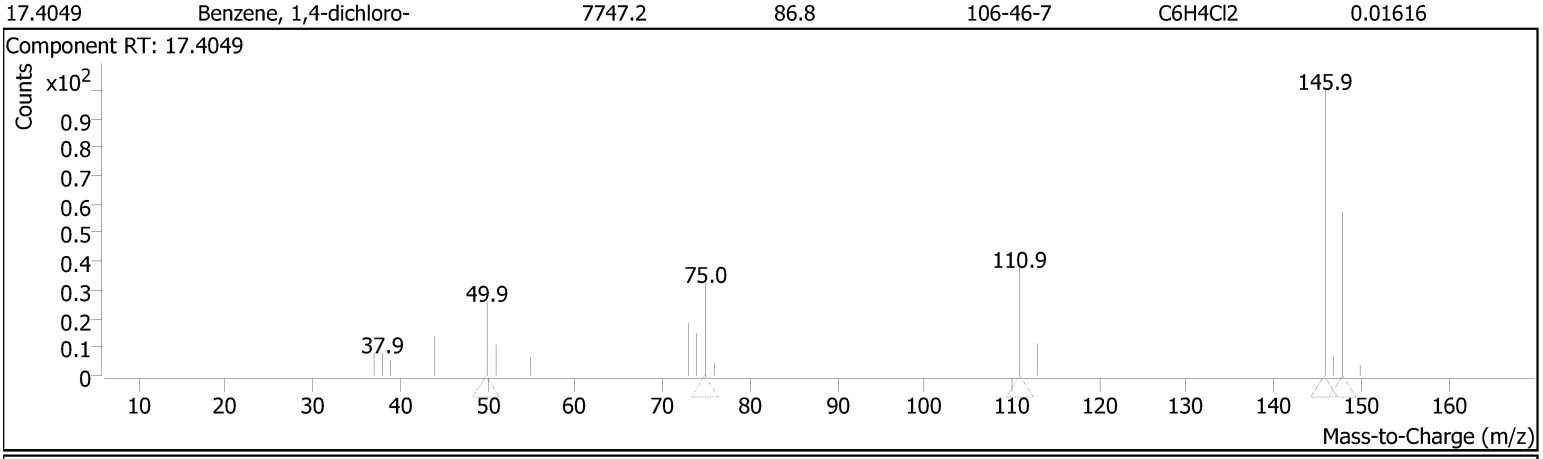



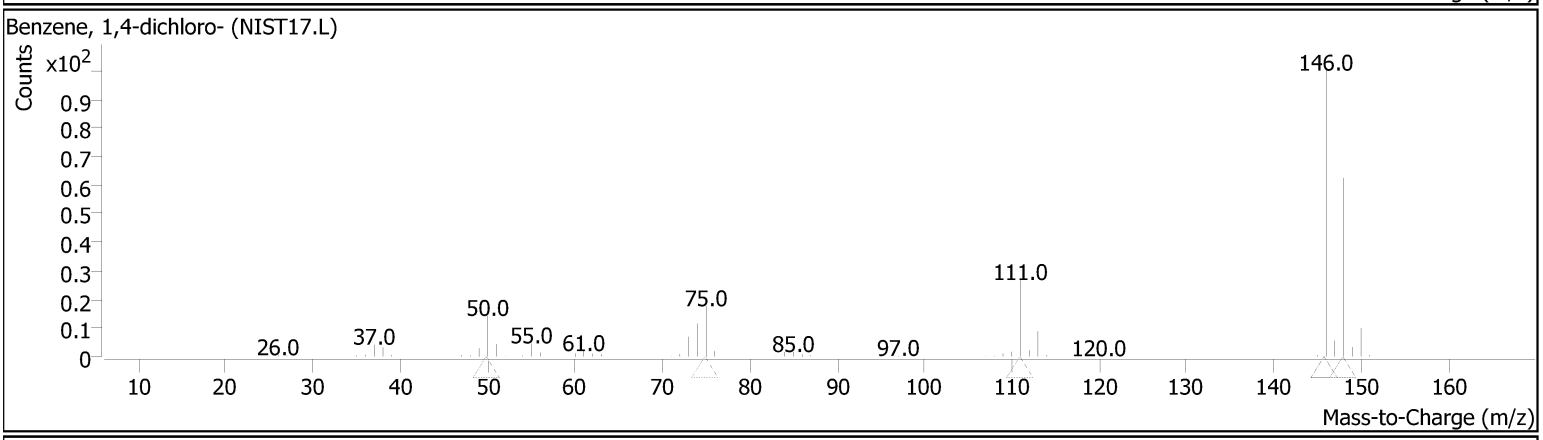



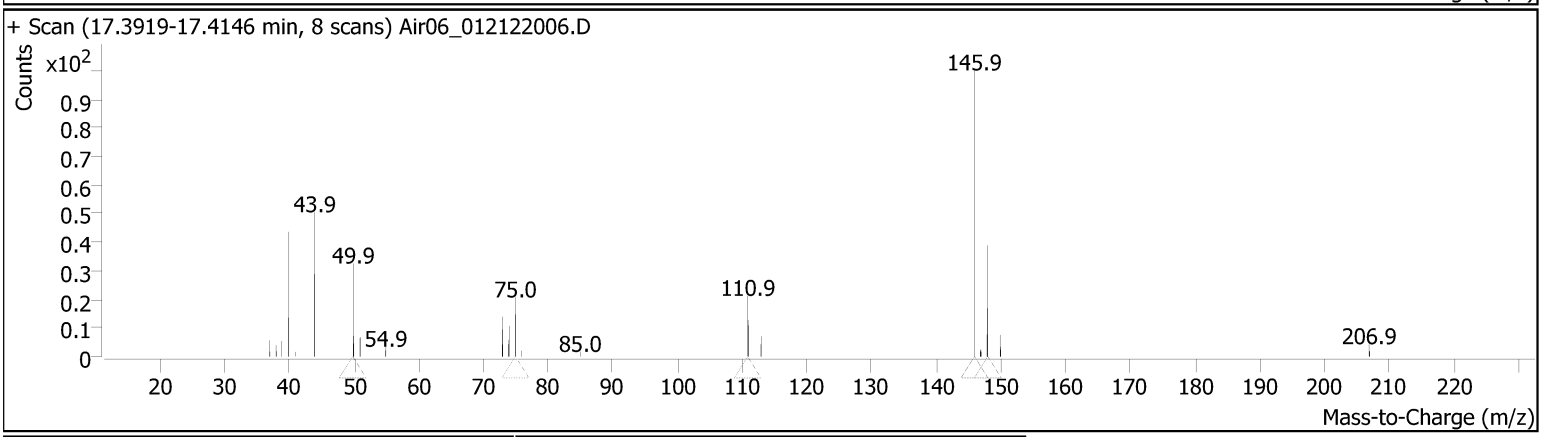



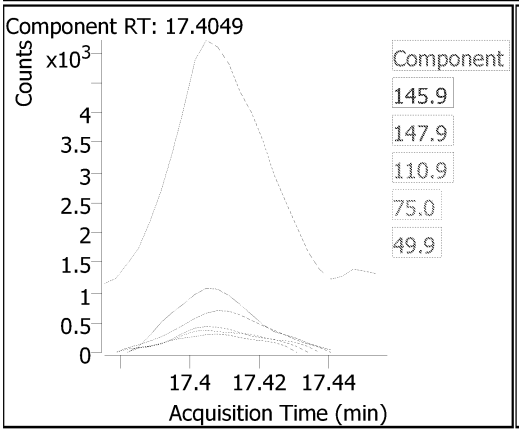



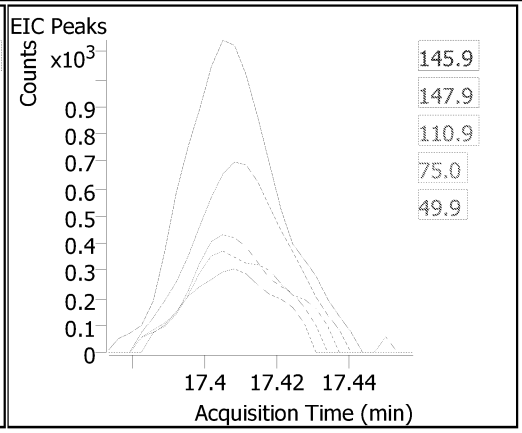
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4049 | Benzene, 1,4-dichloro- | 7747.2 | 86.8 | 106-46-7 | C6H4Cl2 | 0.01616 |

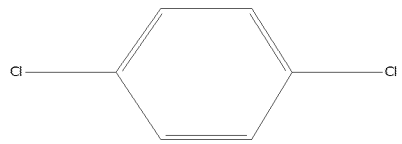


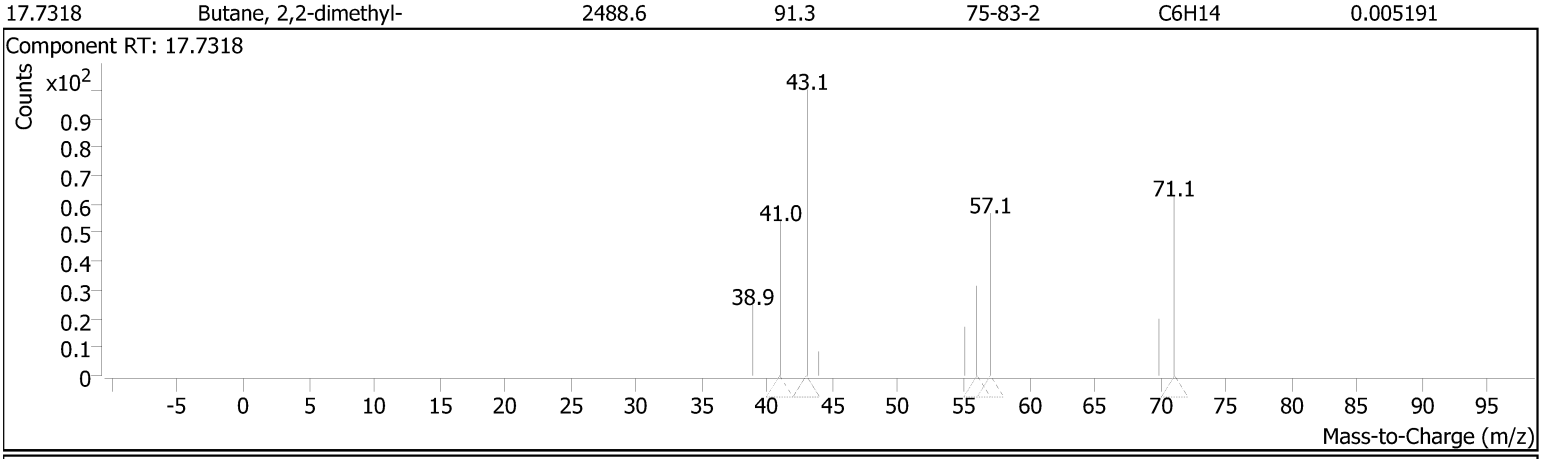



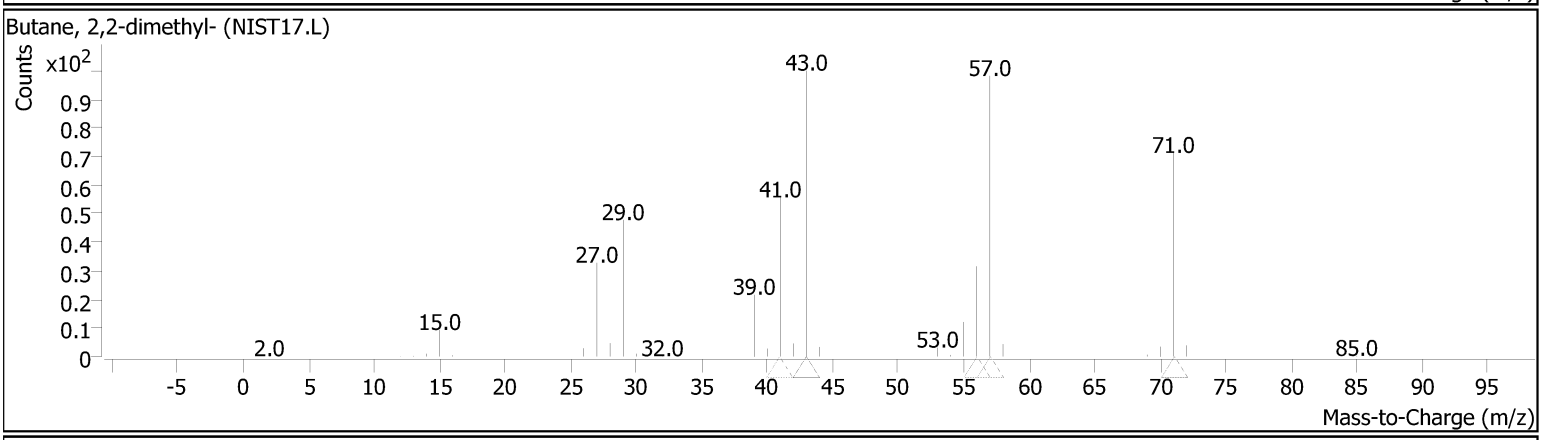



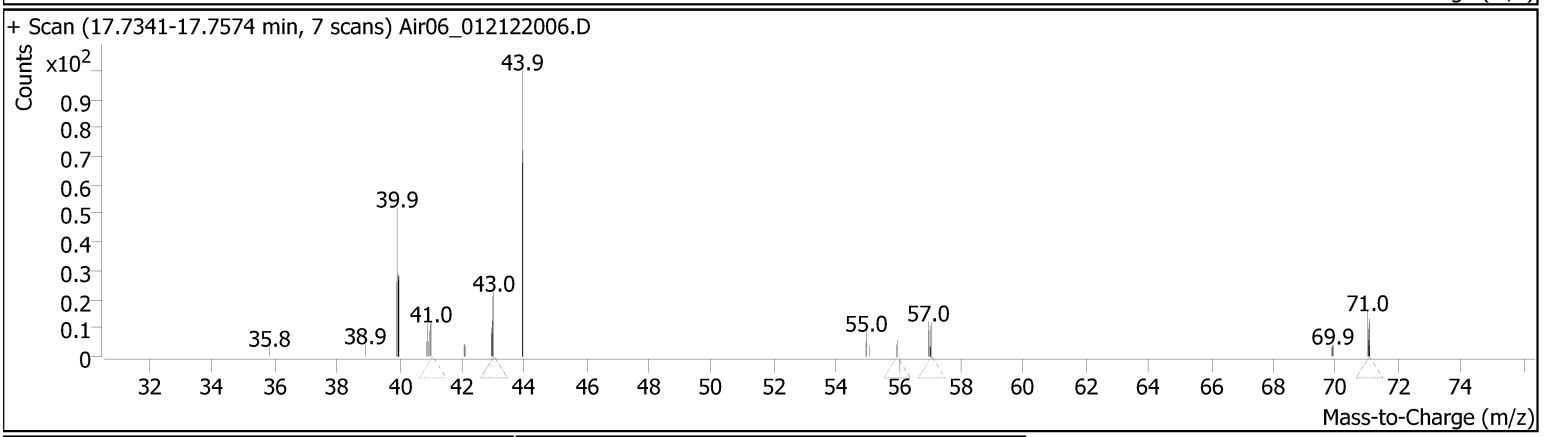



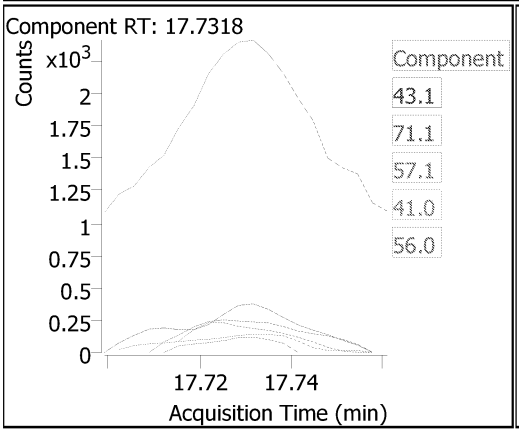



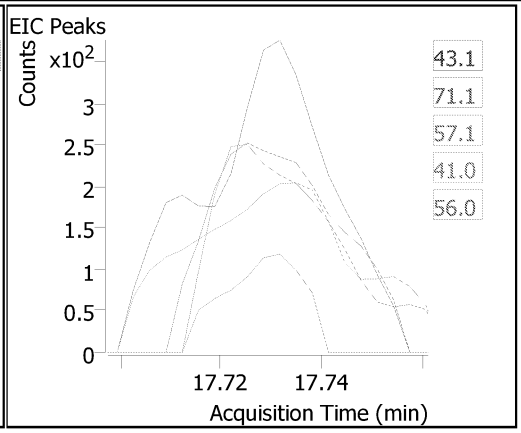
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.7318 | Butane, 2,2-dimethyl- | 2488.6 | 91.3 | 75-83-2 | C6H14 | 0.005191 |

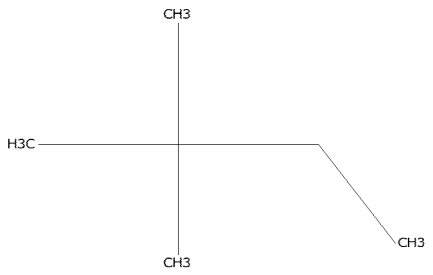


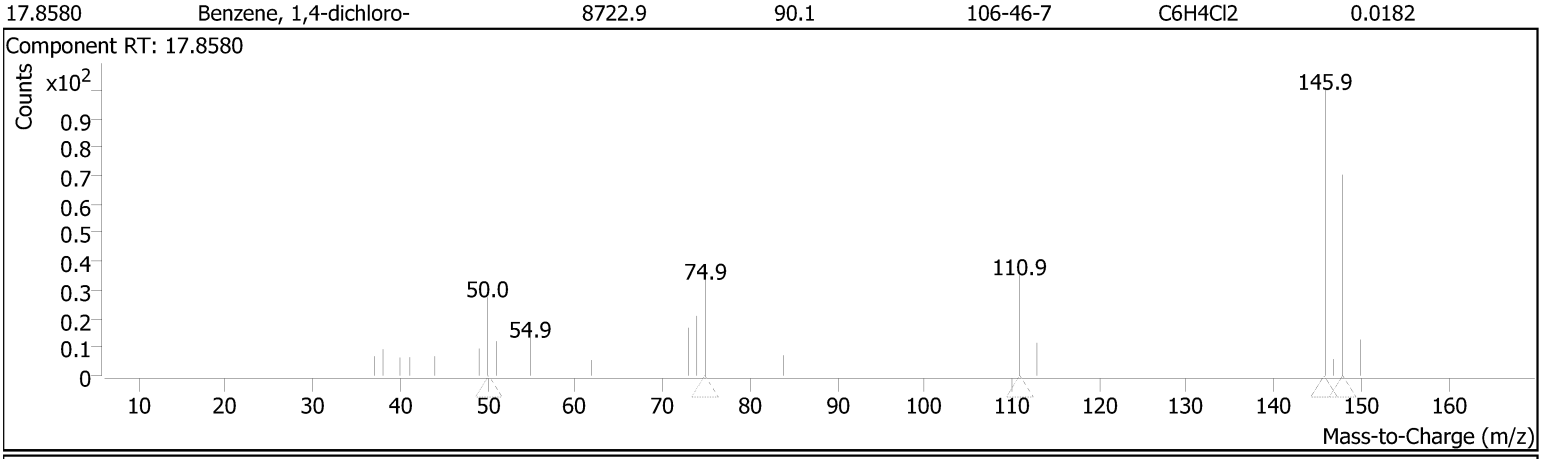



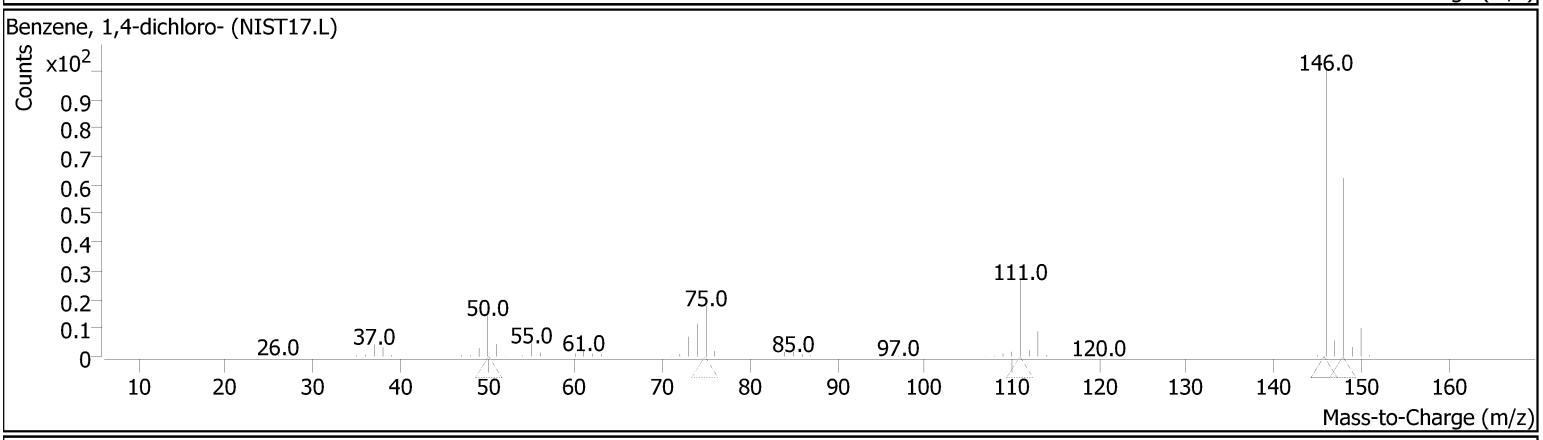



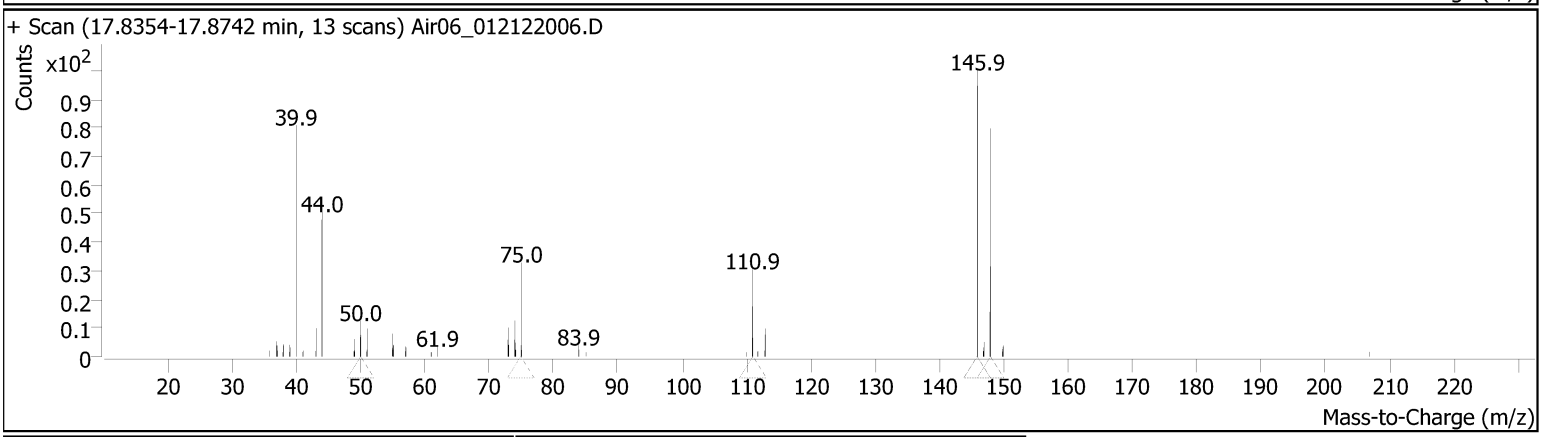



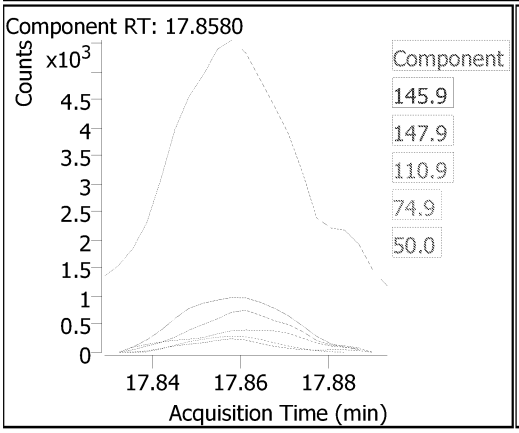



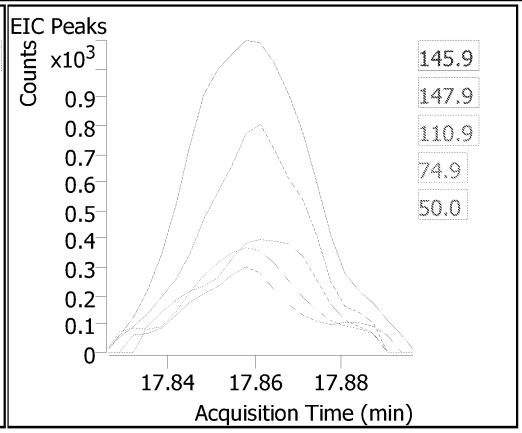
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.8580 | Benzene, 1,4-dichloro- | 8722.9 | 90.1 | 106-46-7 | C6H4Cl2 | 0.0182 |

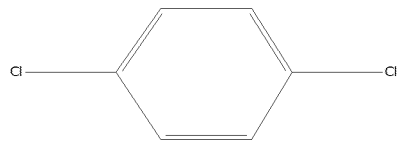


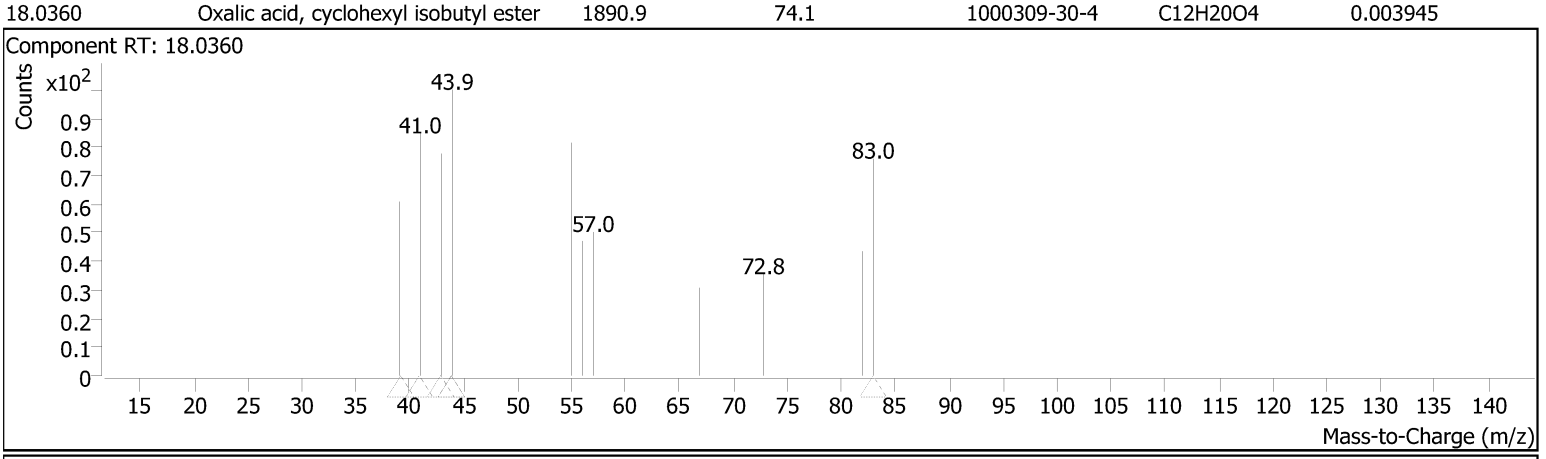



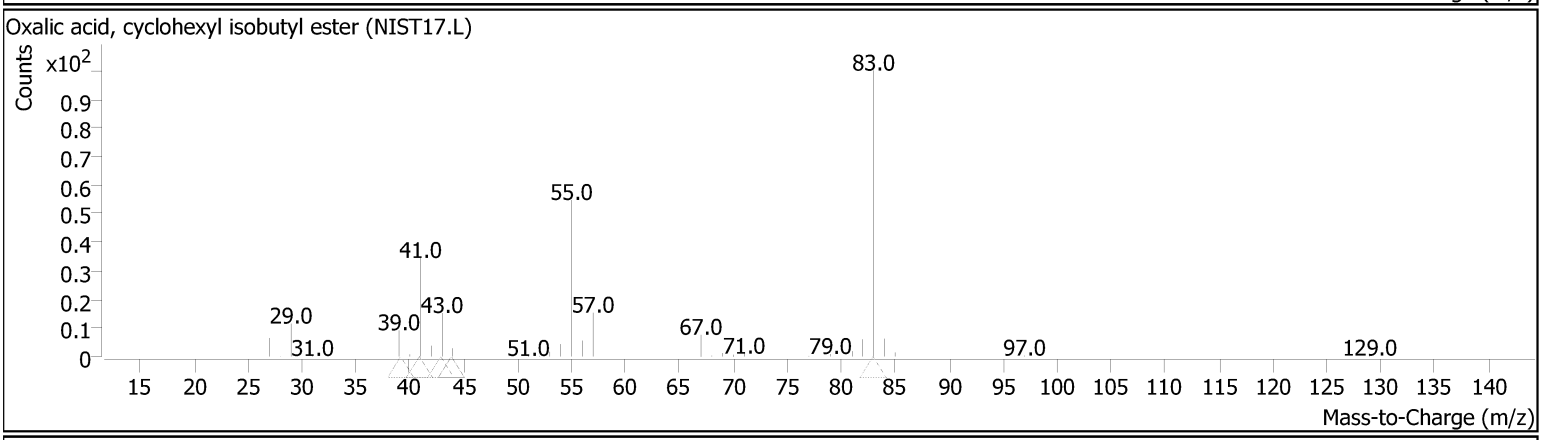



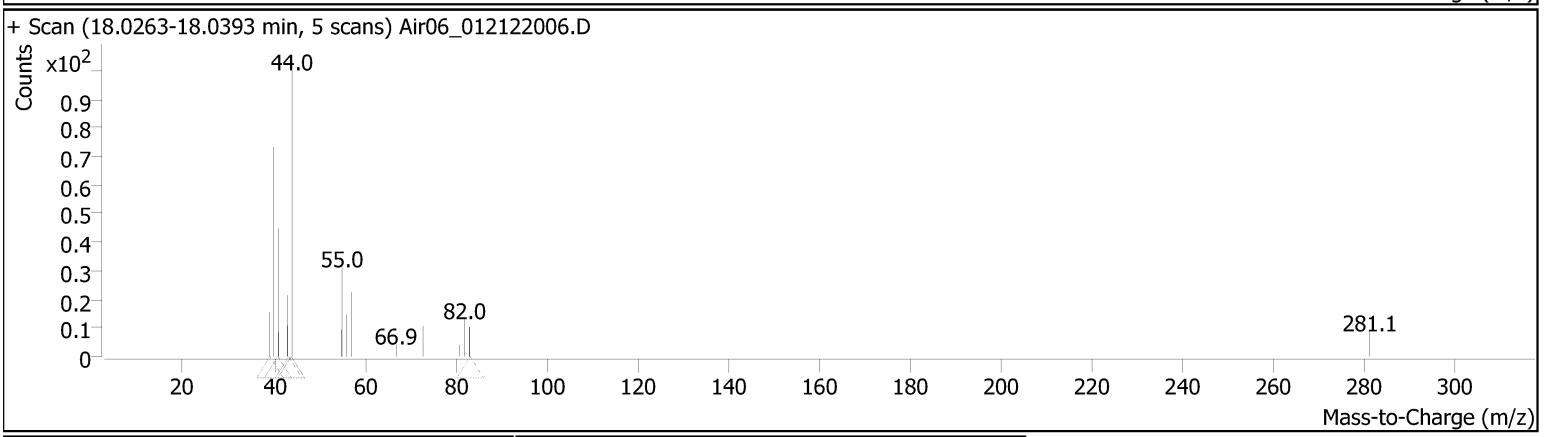



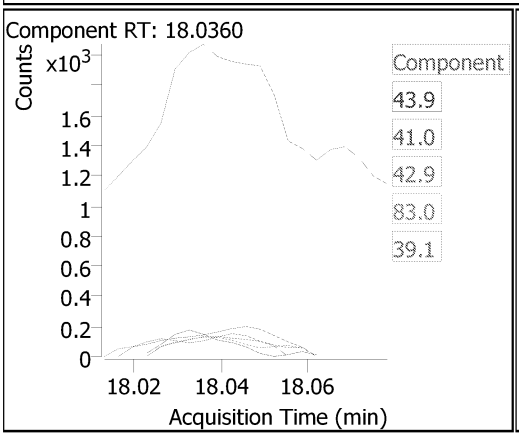



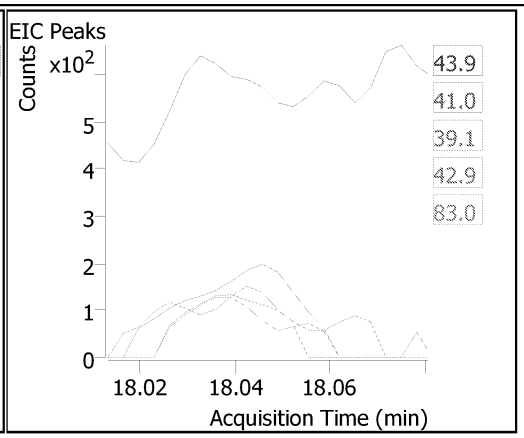
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.0360 | Oxalic acid, cyclohexyl isobutyl ester | 1890.9 | 74.1 | 1000309-30-4 | C12H20O4 | 0.003945 |

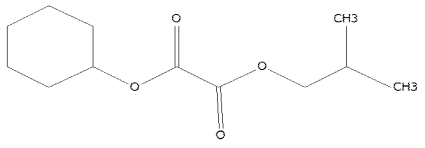


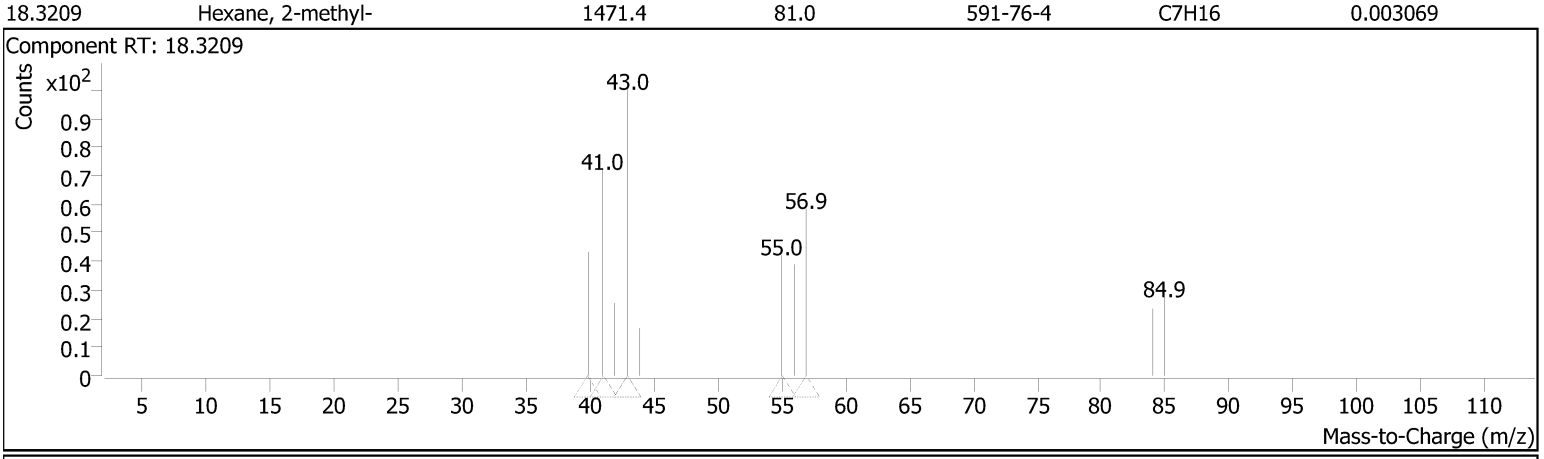



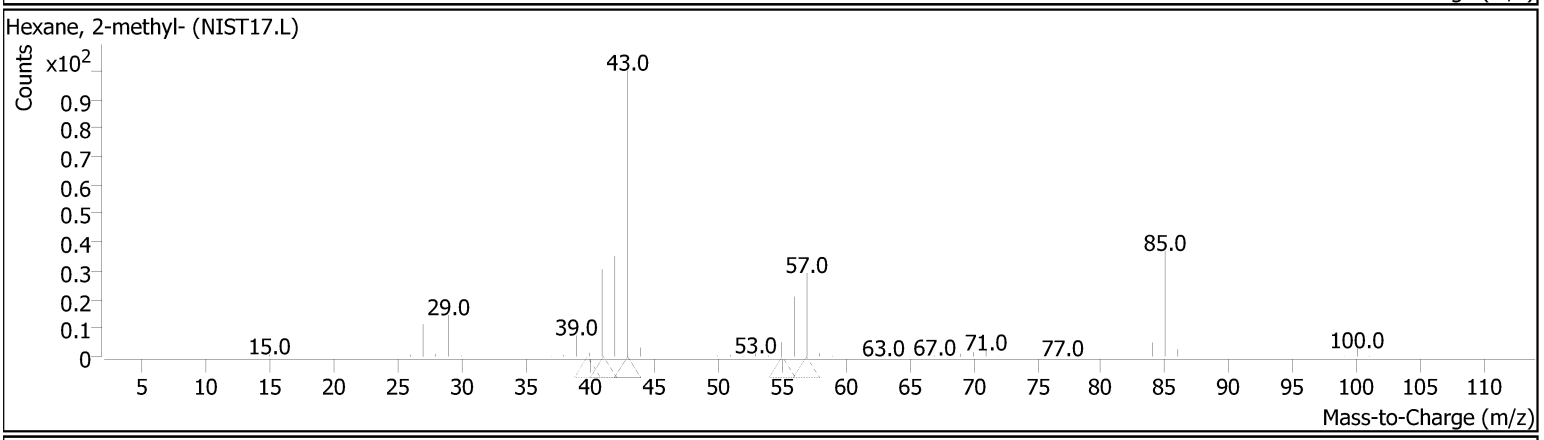



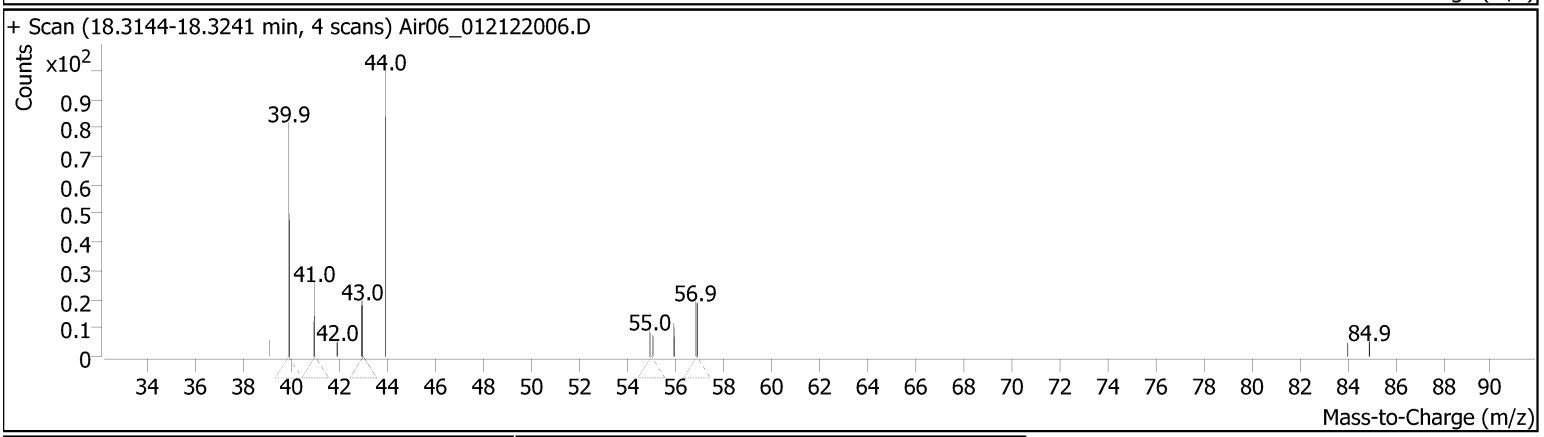



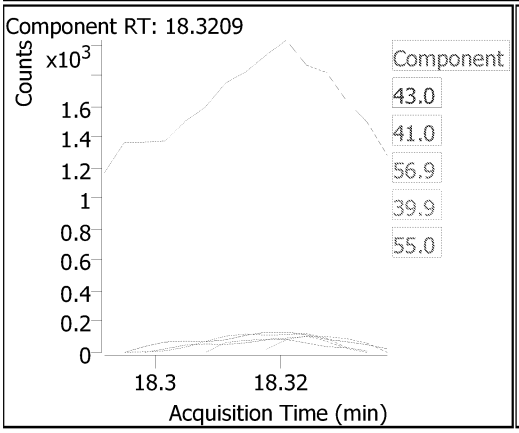



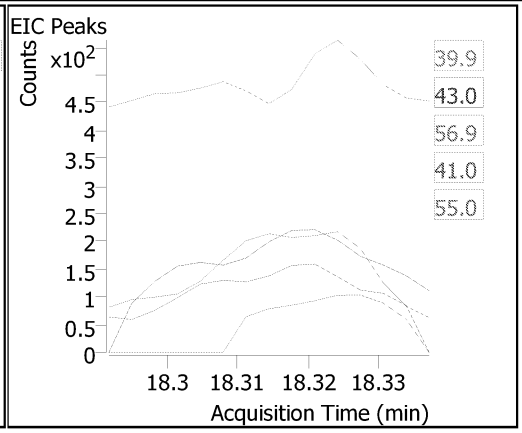
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3209 | Hexane, 2-methyl- | 1471.4 | 81.0 | 591-76-4 | C7H16 | 0.003069 |

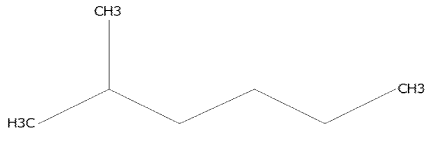


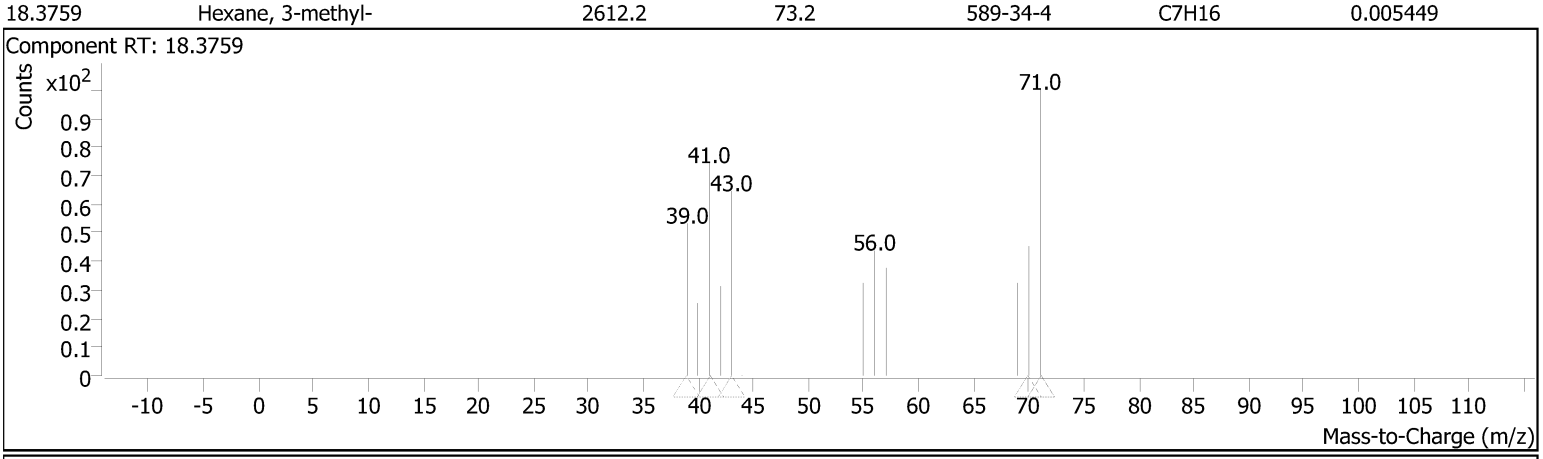



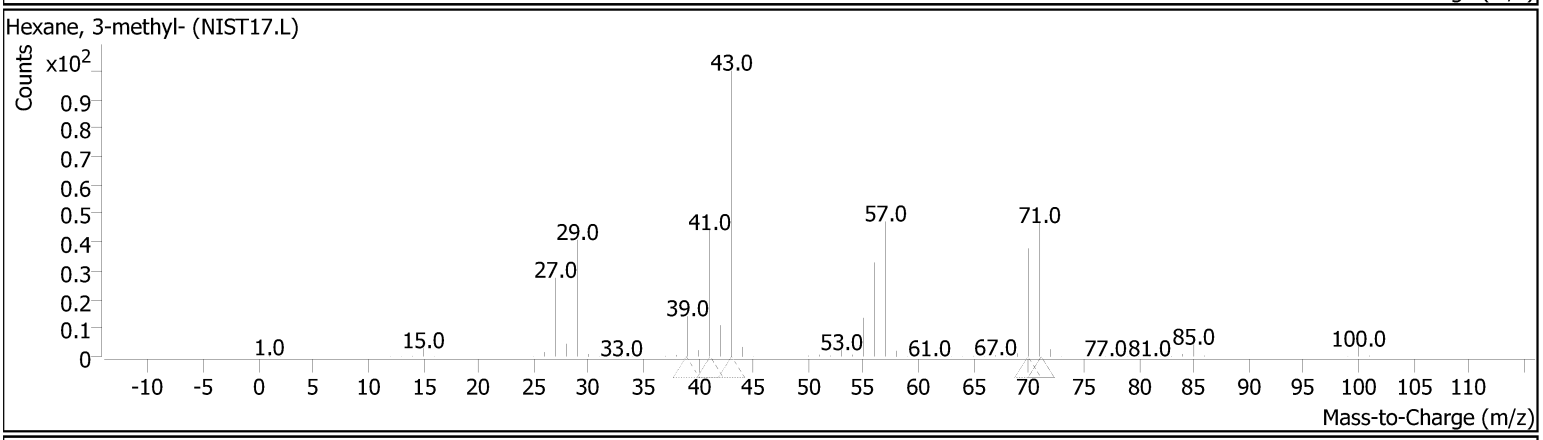



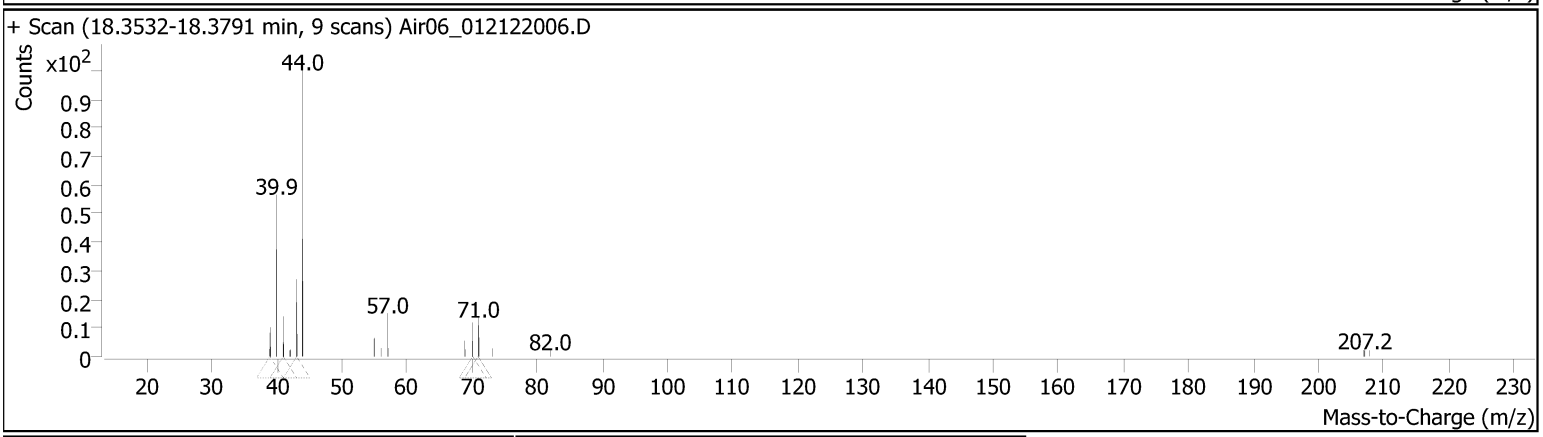



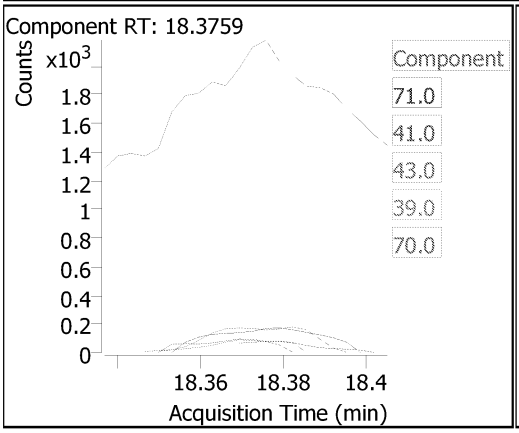



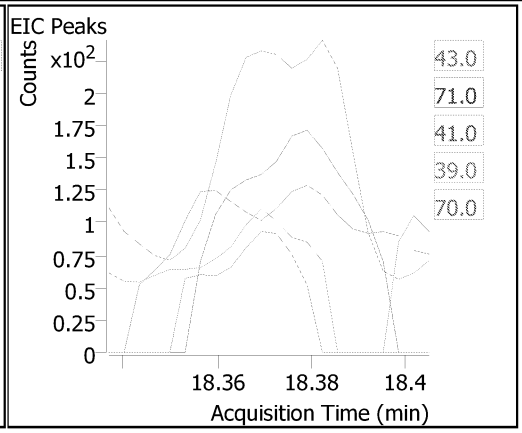
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3759 | Hexane, 3-methyl- | 2612.2 | 73.2 | 589-34-4 | C7H16 | 0.005449 |

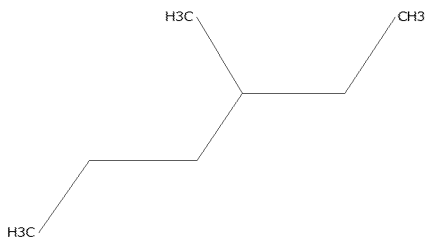


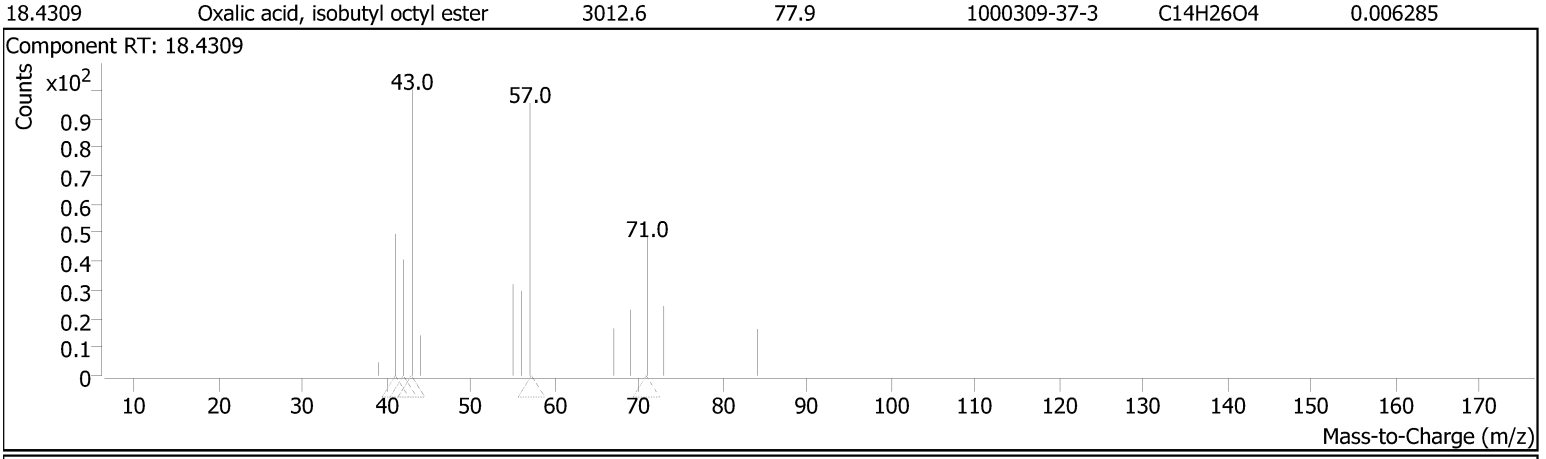



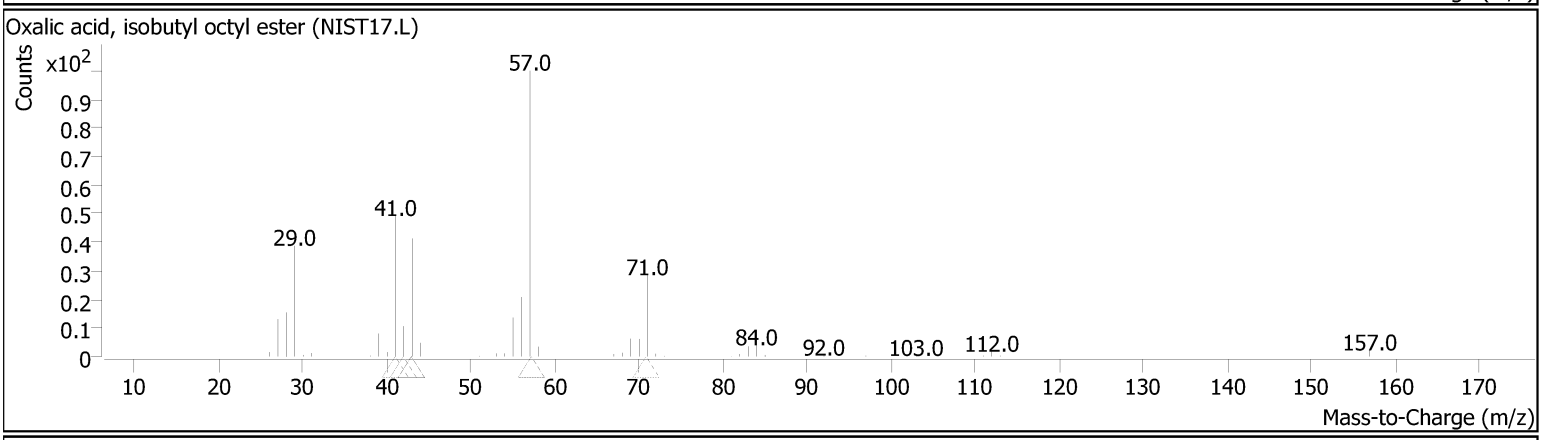



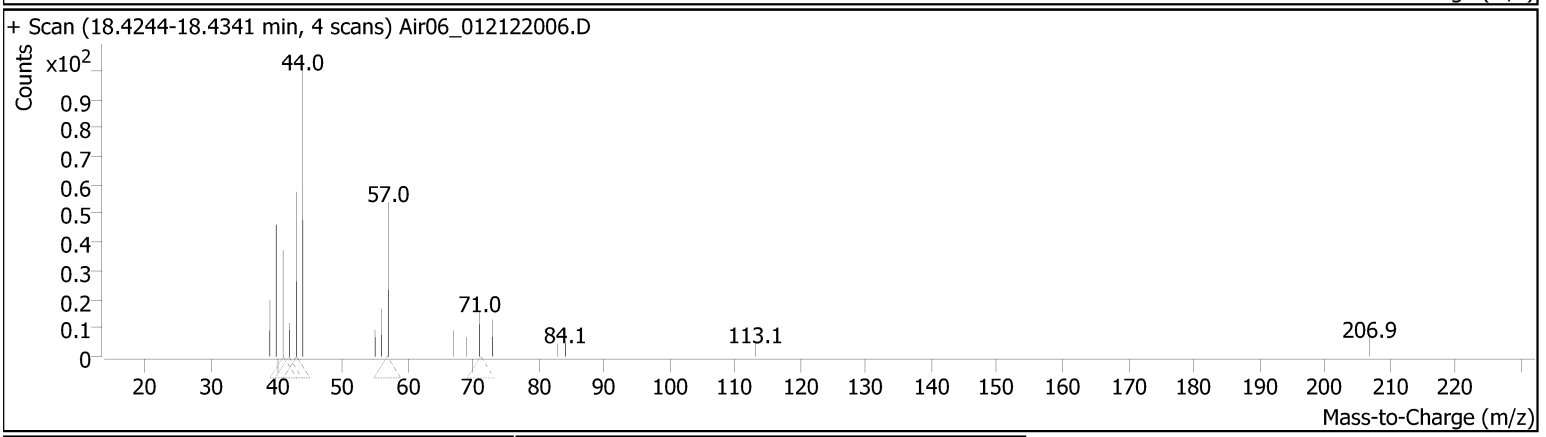



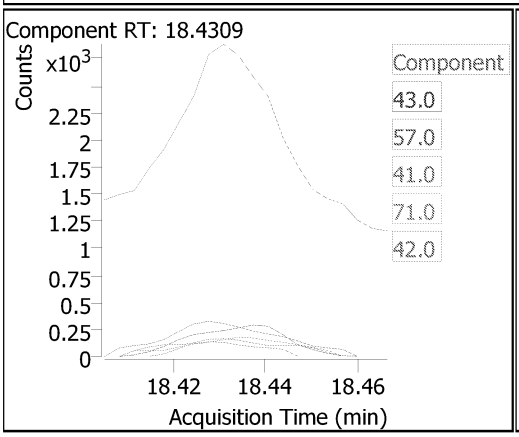



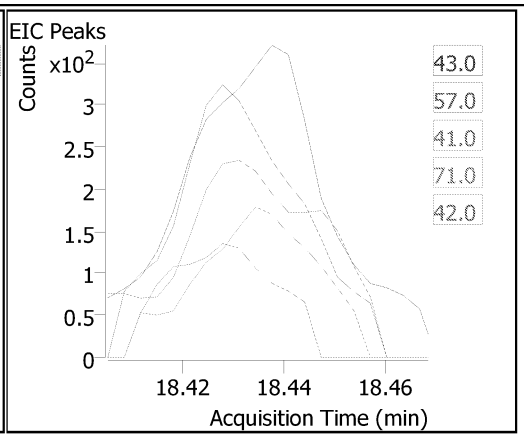
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4309 | Oxalic acid, isobutyl octyl ester | 3012.6 | 77.9 | 1000309-37-3 | C14H26O4 | 0.006285 |

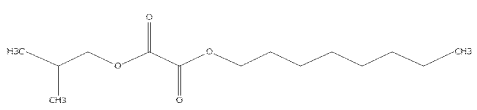


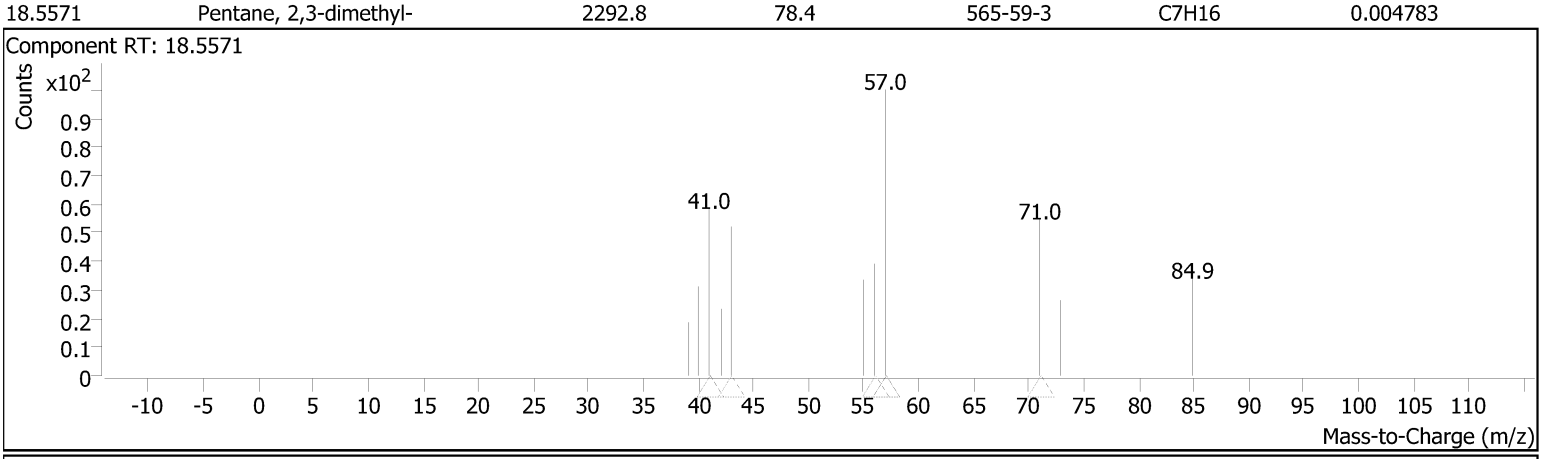



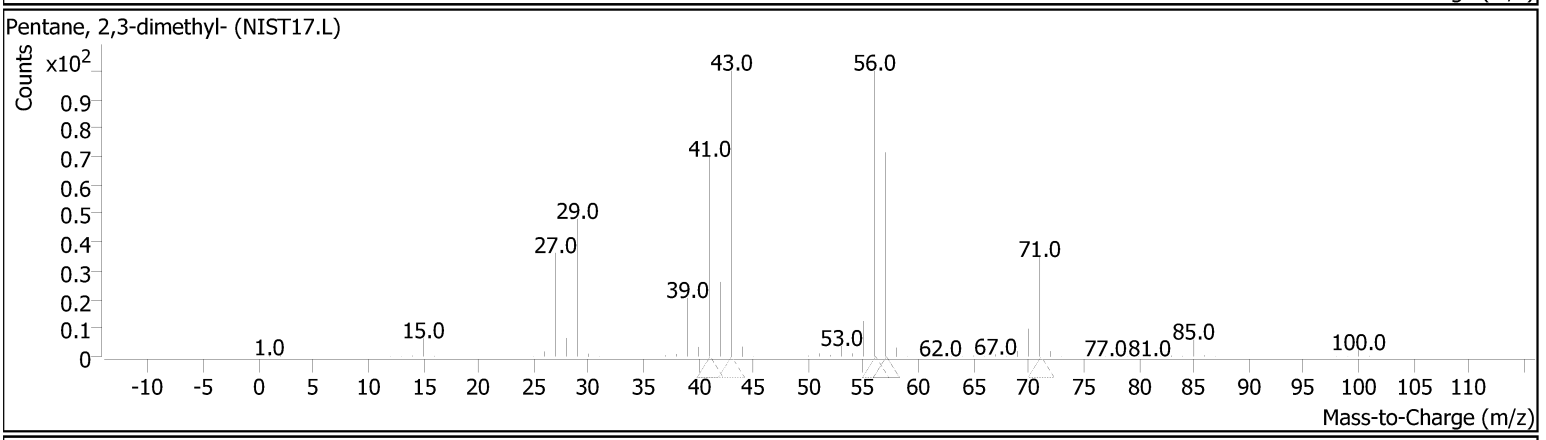



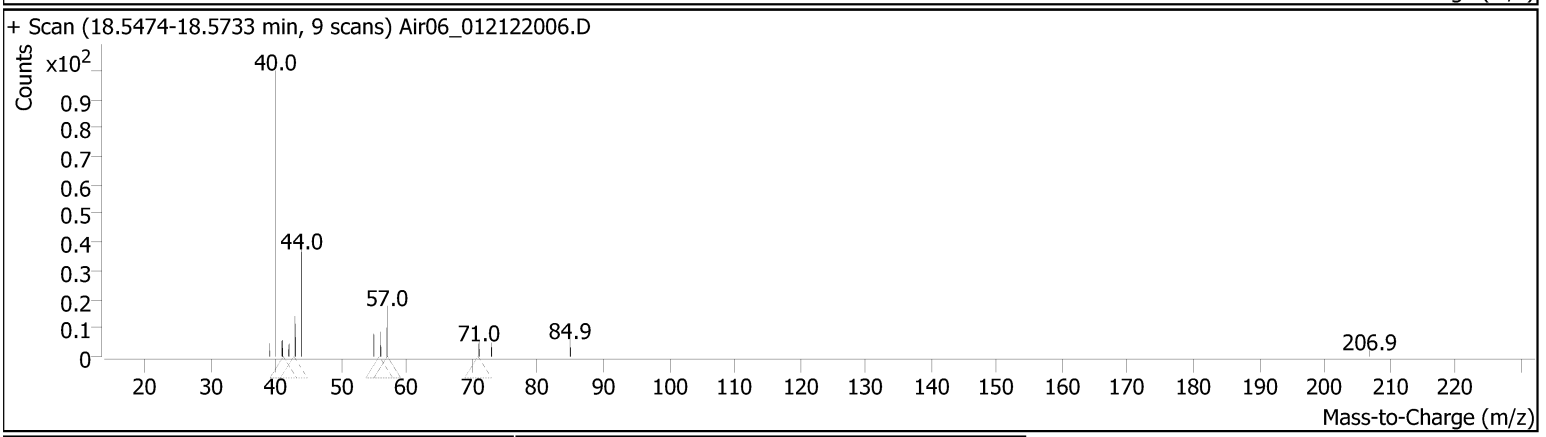



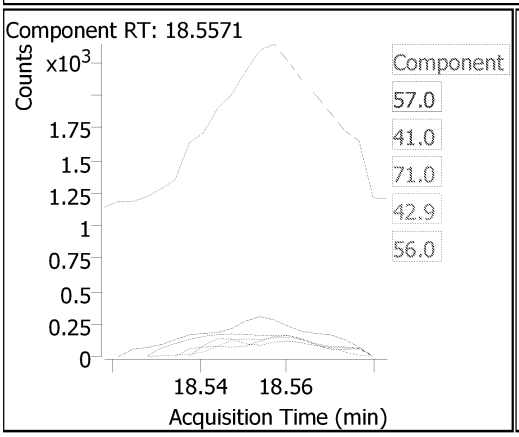



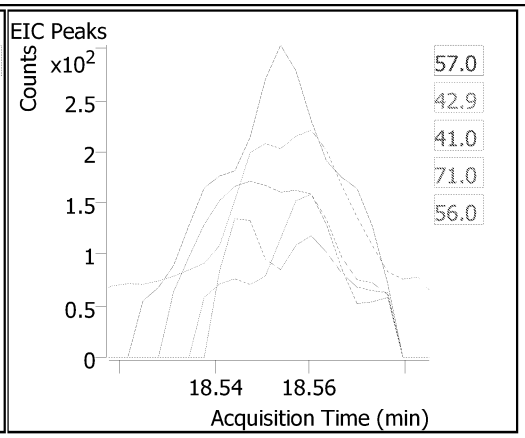
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.5571 | Pentane, 2,3-dimethyl- | 2292.8 | 78.4 | 565-59-3 | C7H16 | 0.004783 |

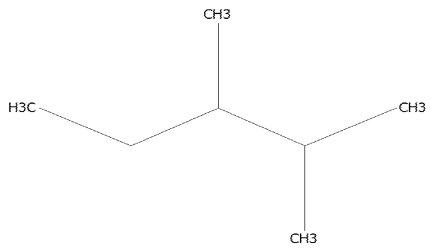


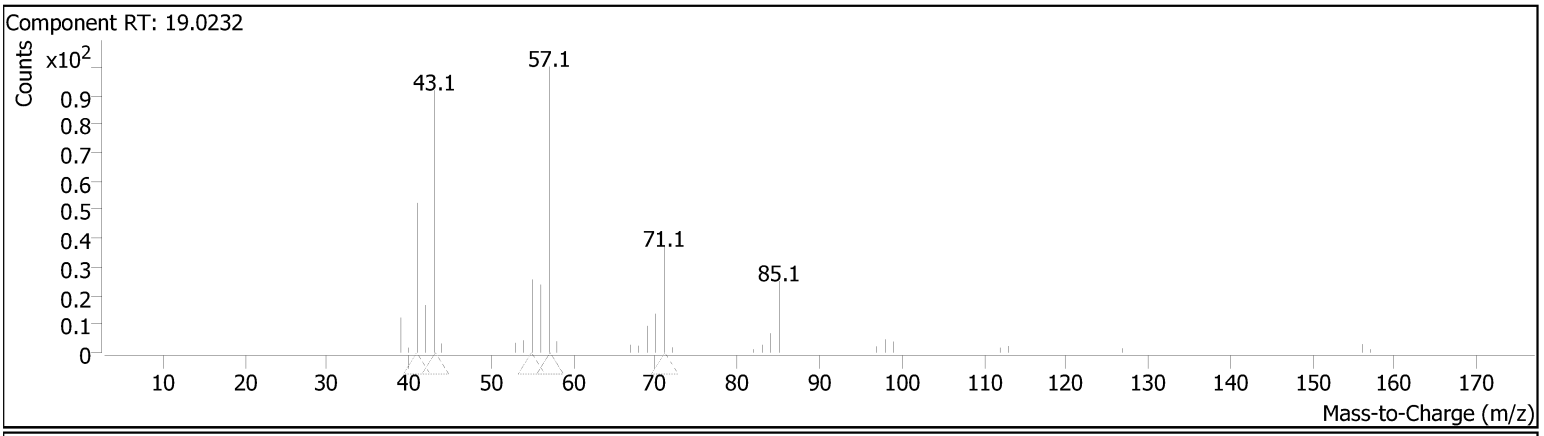



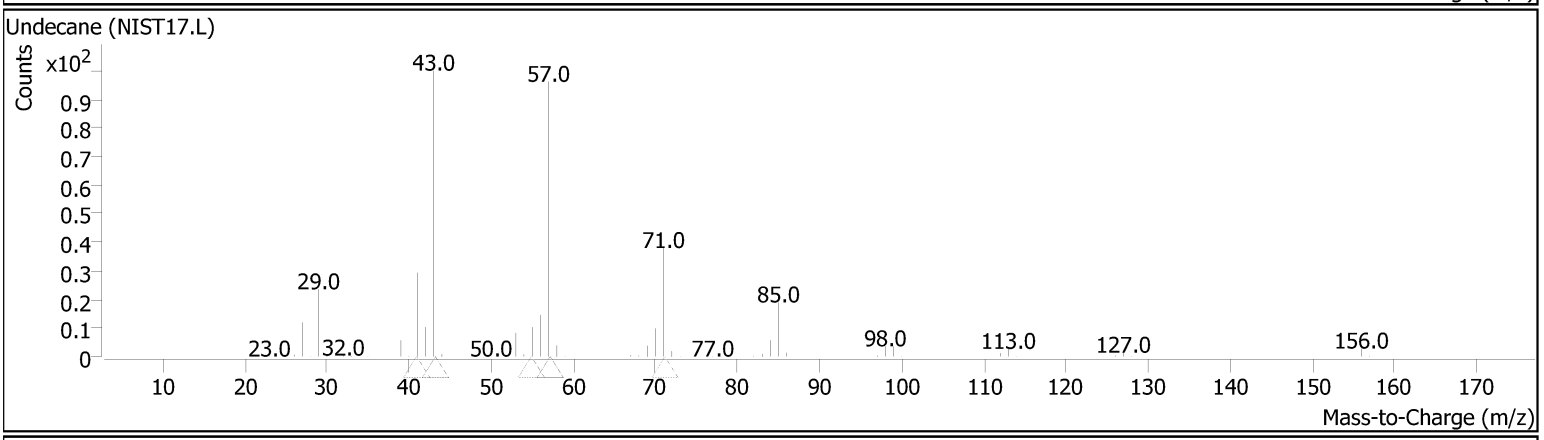



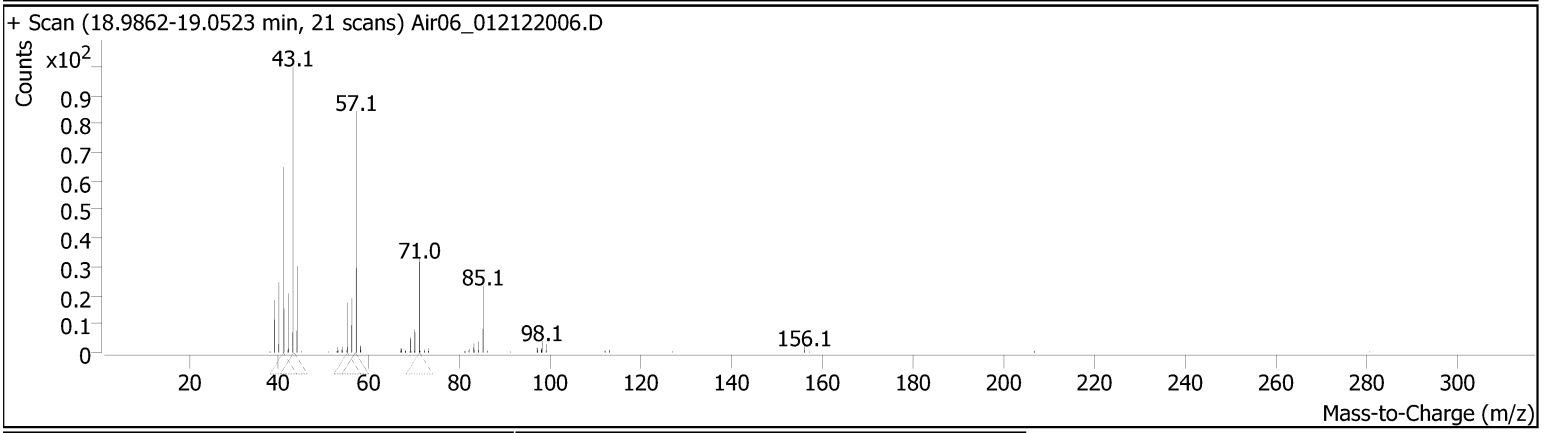



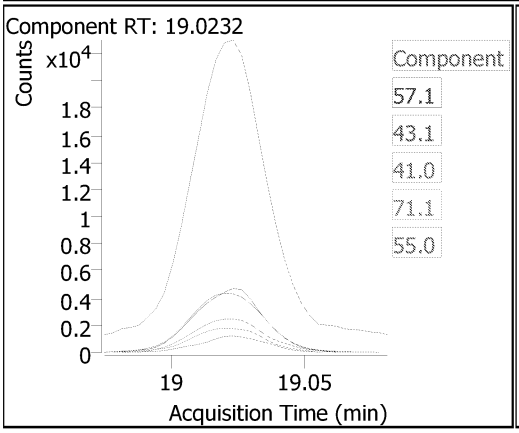



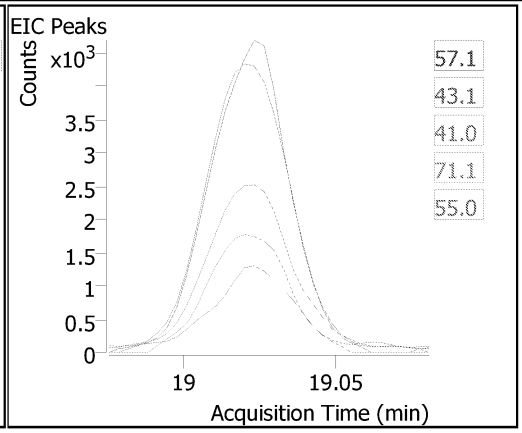
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.0232 | Undecane | 42519.4 | 96.3 | 1120-21-4 | C11H24 | 0.0887 |



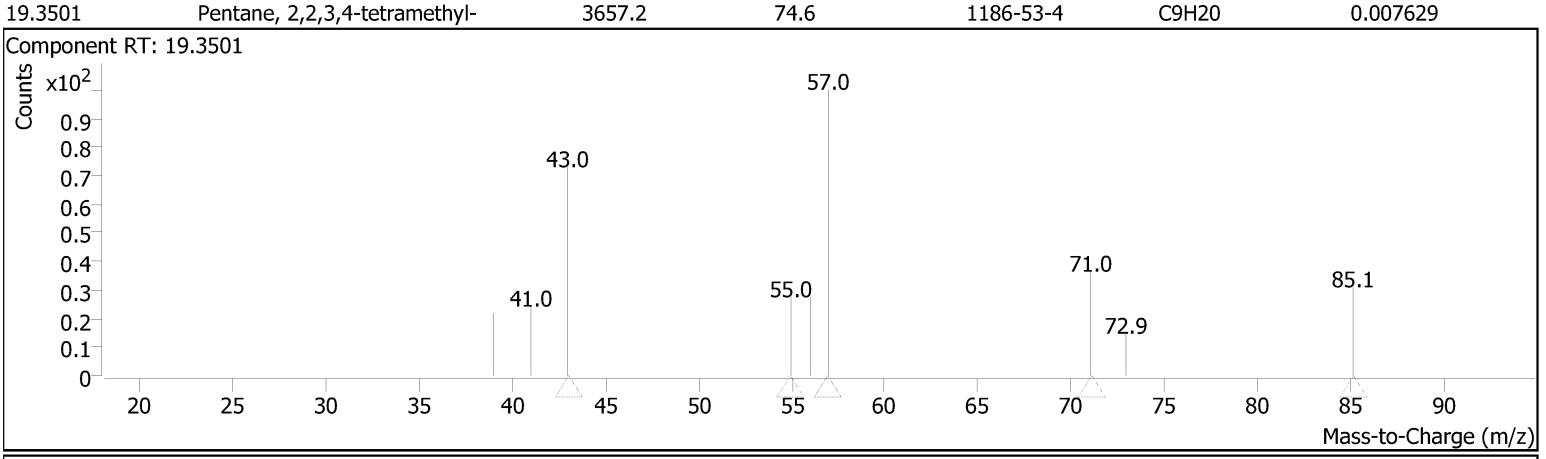



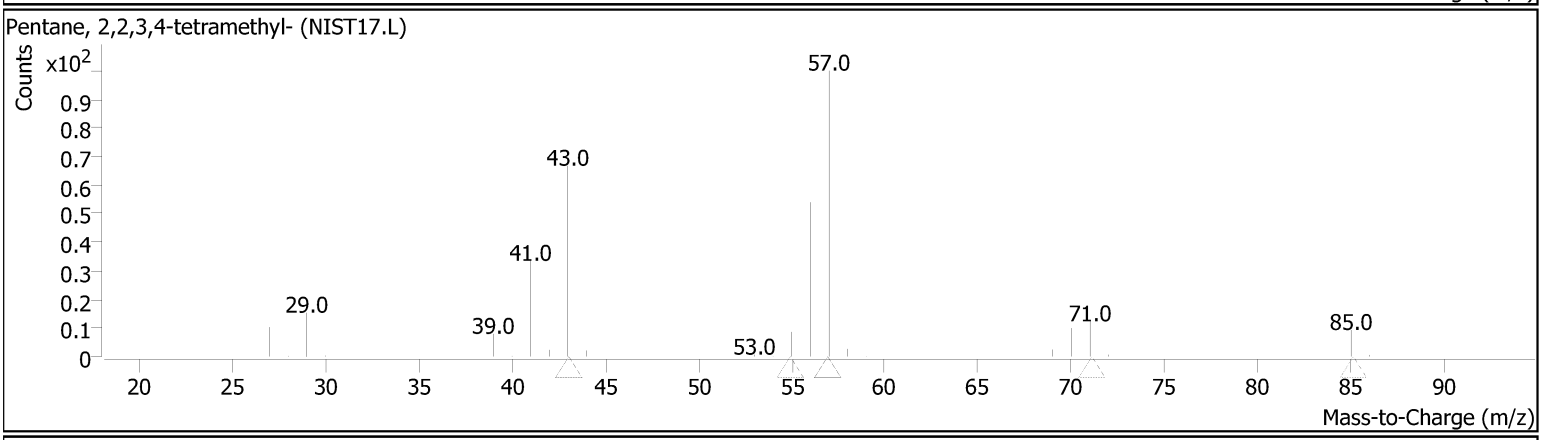



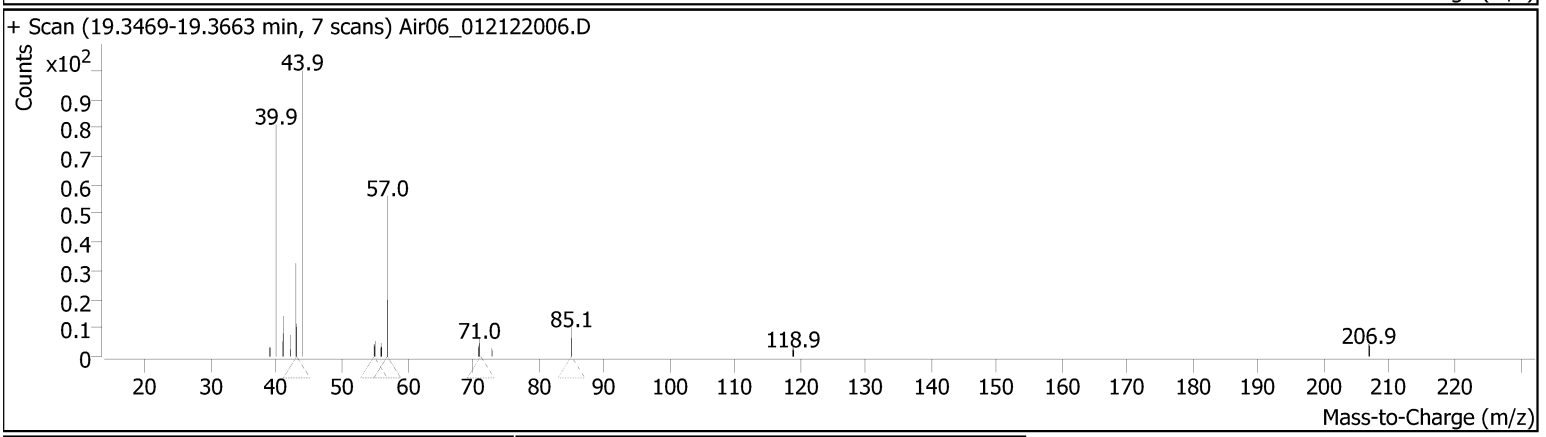



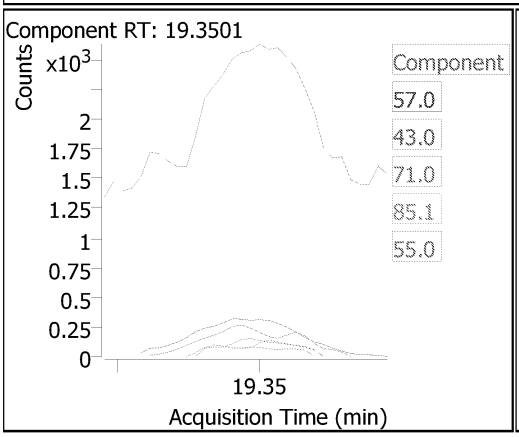


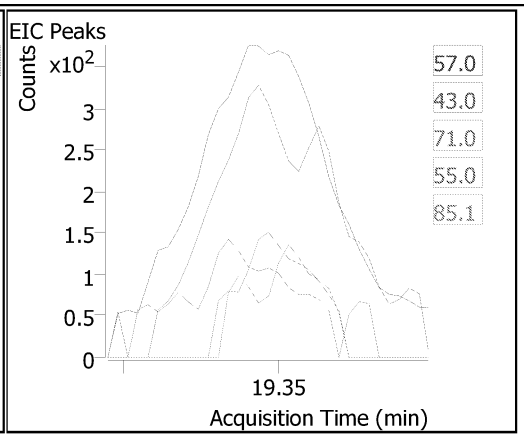

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.3501 | Pentane, 2,2,3,4-tetramethyl- | 3657.2 | 74.6 | 1186-53-4 | C9H20 | 0.007629 |

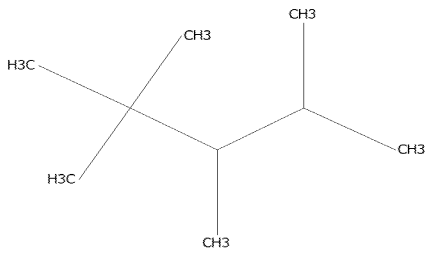


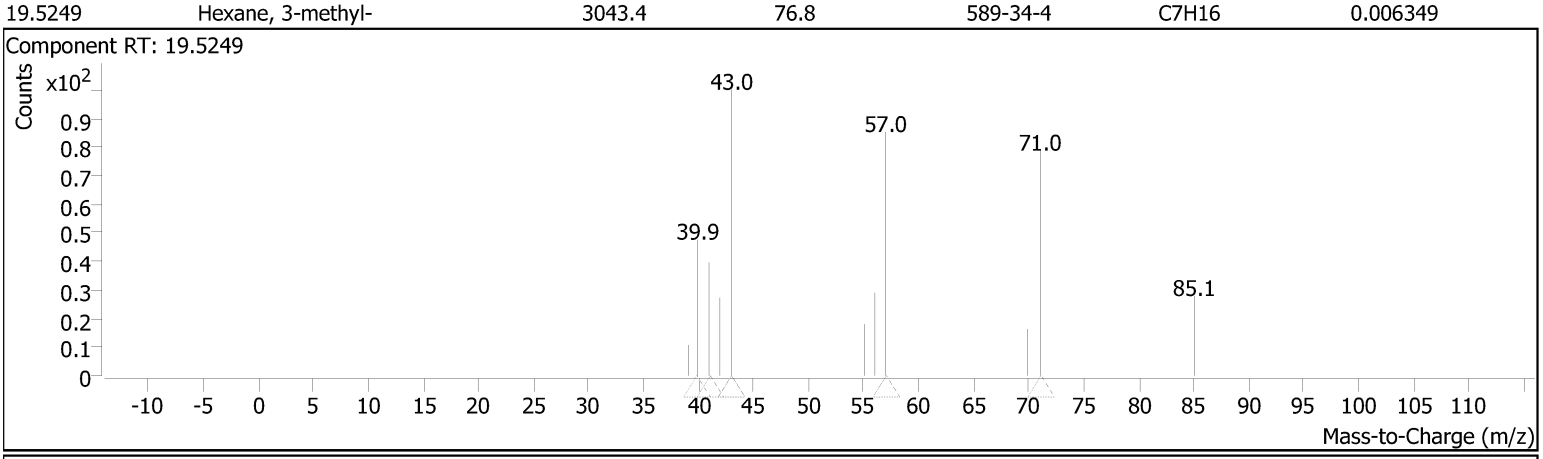



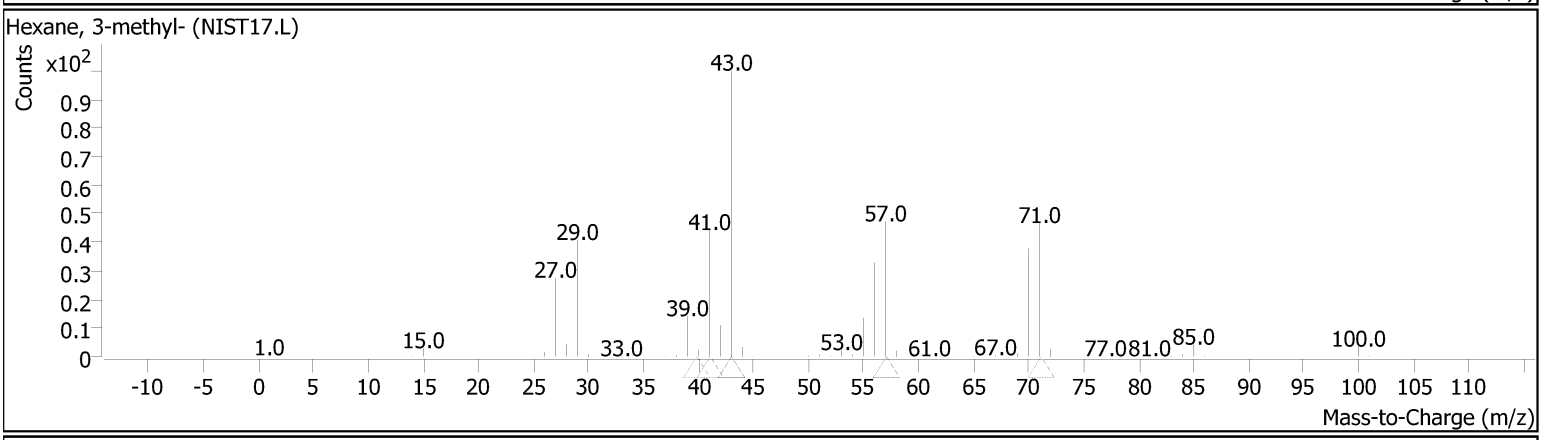



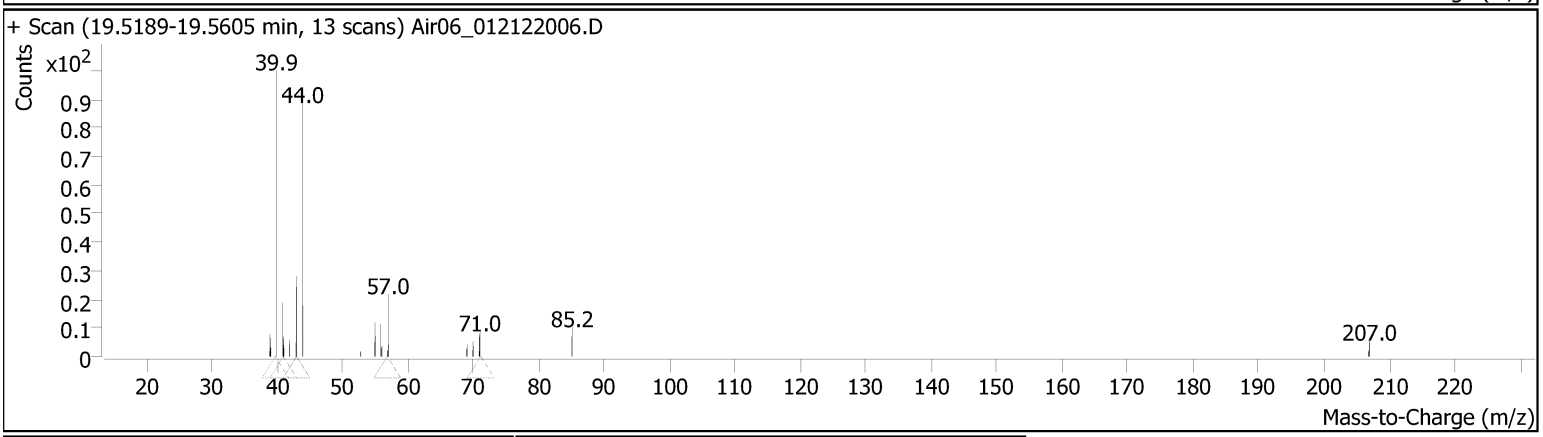



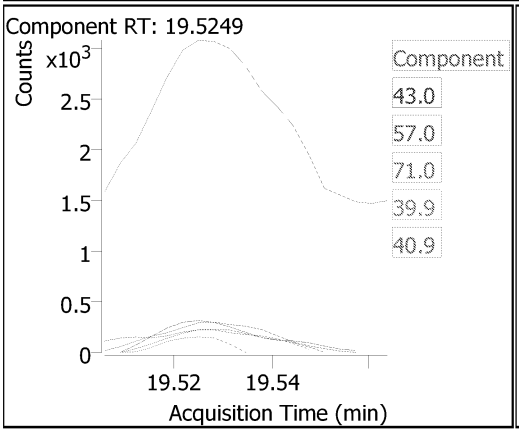



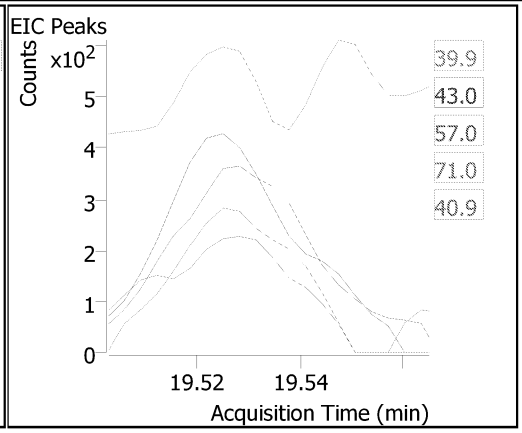
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5249 | Hexane, 3-methyl- | 3043.4 | 76.8 | 589-34-4 | C7H16 | 0.006349 |

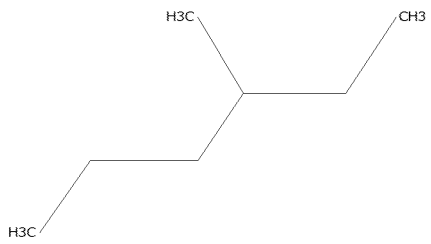


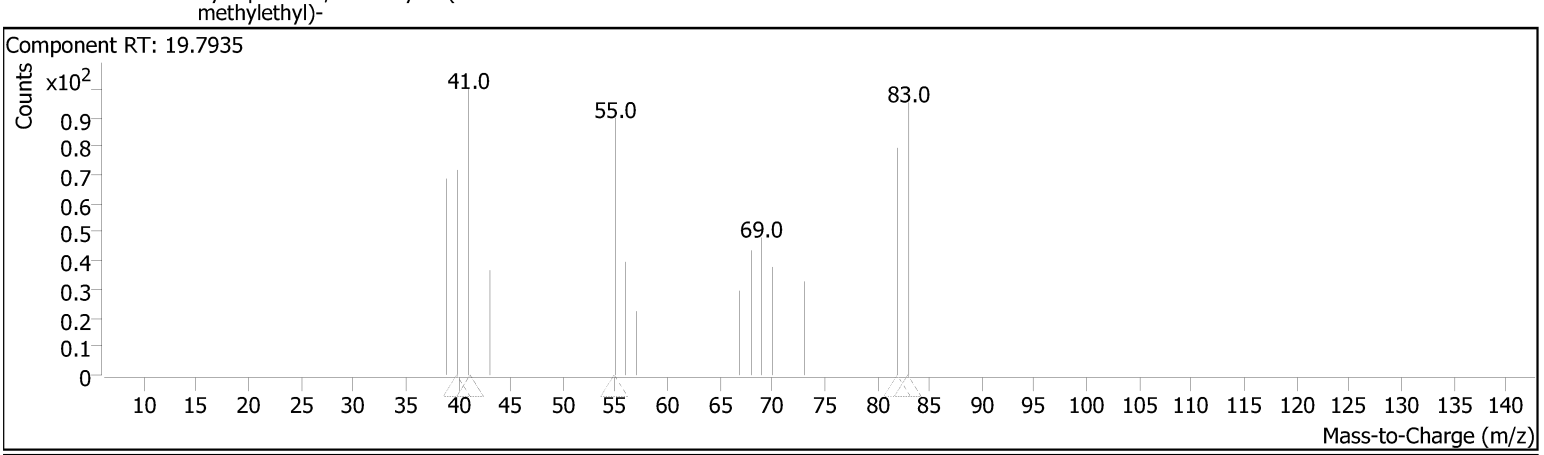



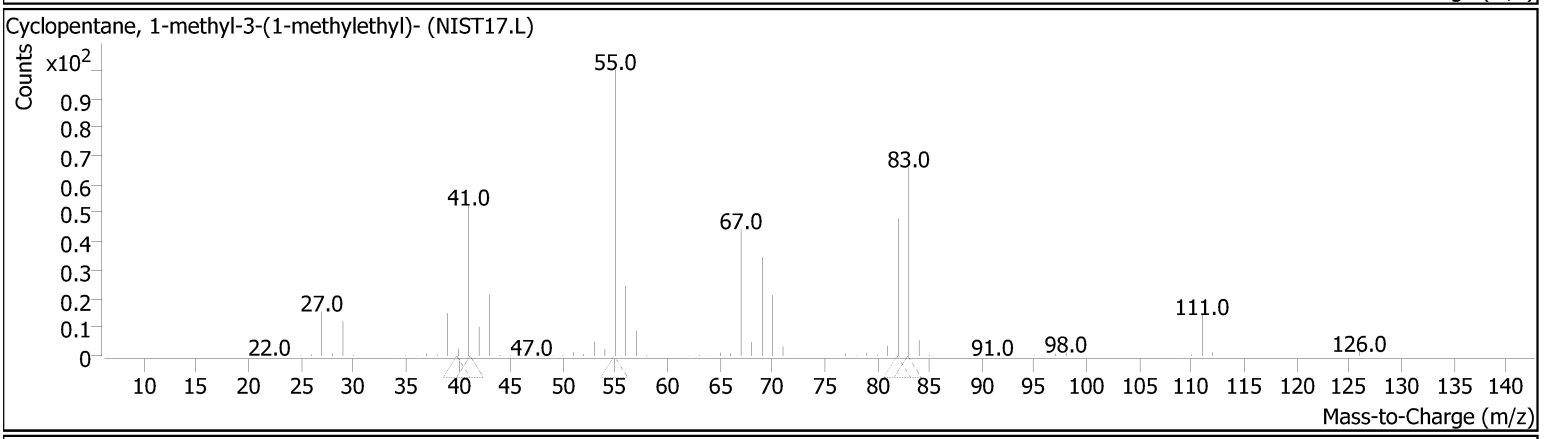



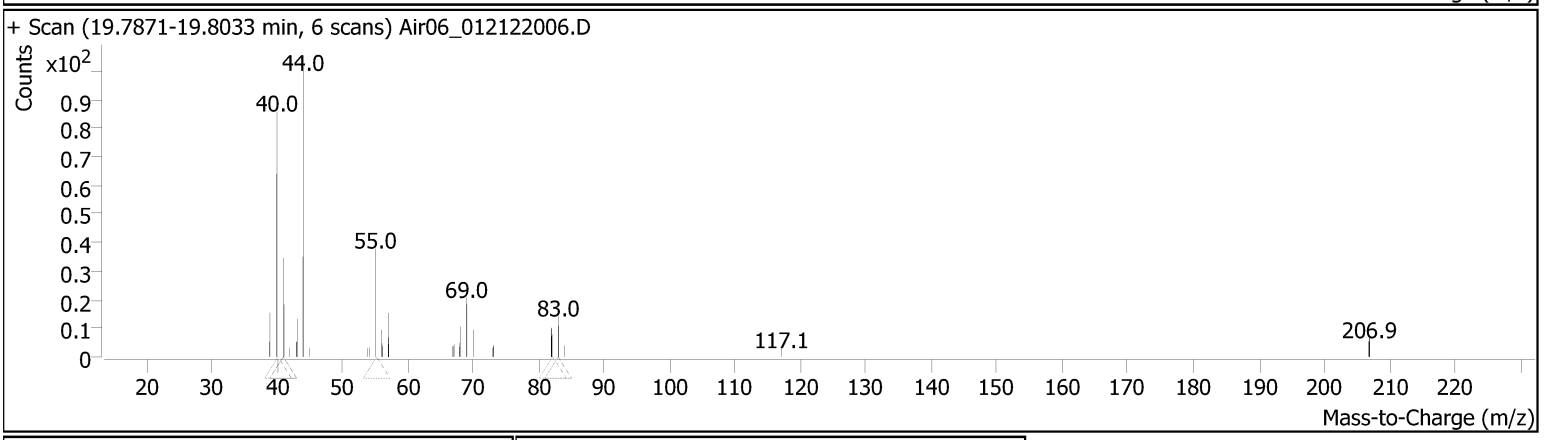



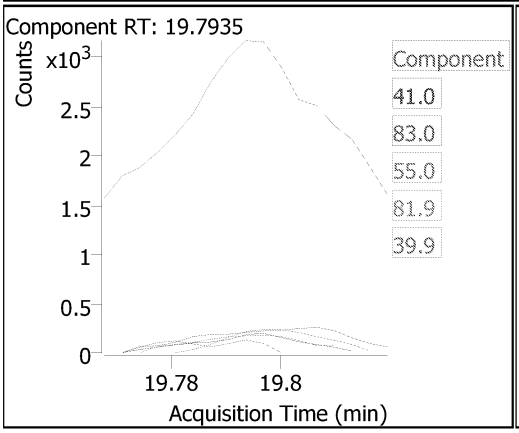



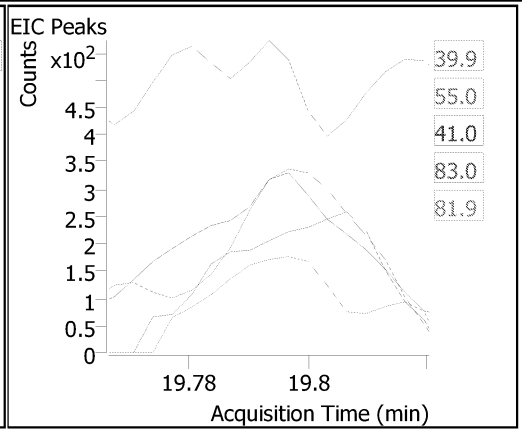
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.7935 | Cyclopentane, 1-methyl-3-(1-methylethyl)- | 2653.8 | 75.1 | 53771-88-3 | C9H18 | 0.005536 |

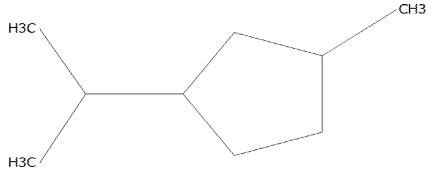


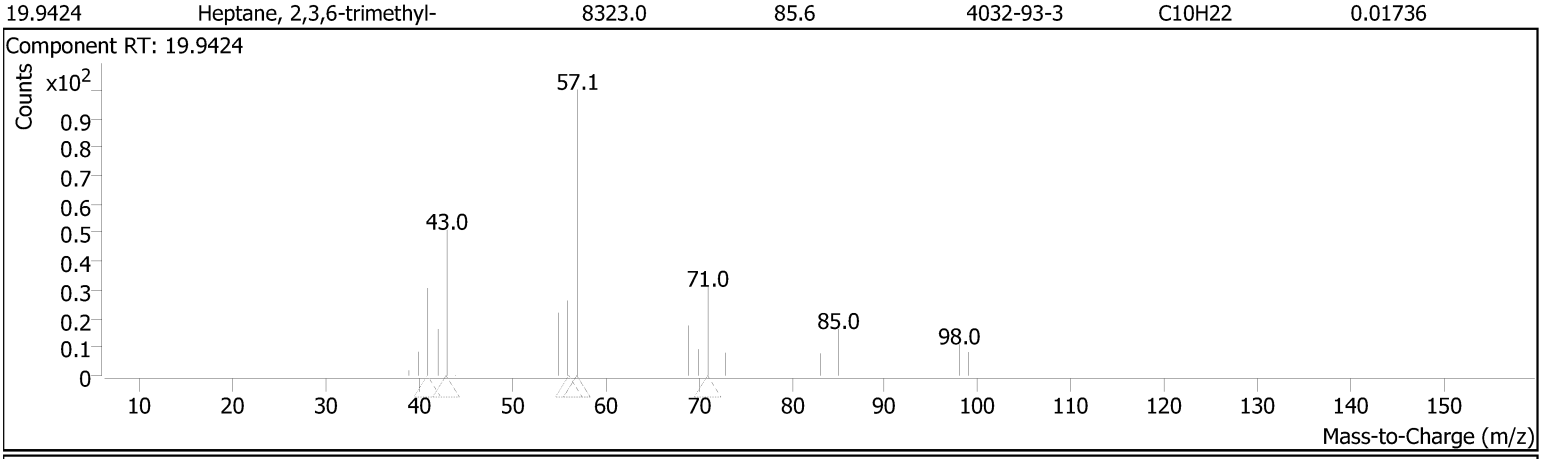



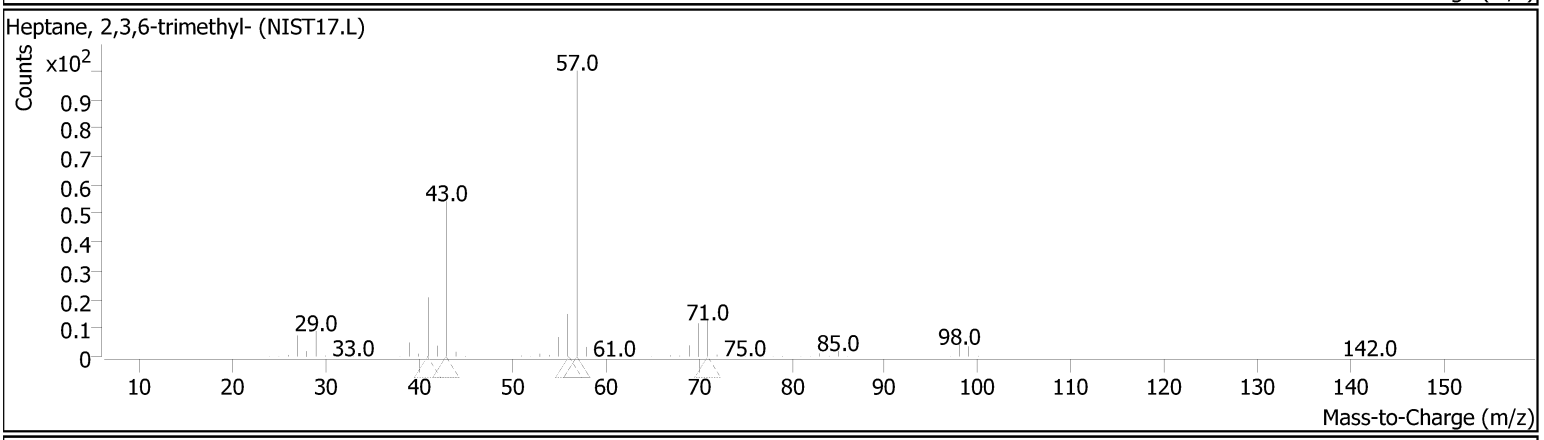



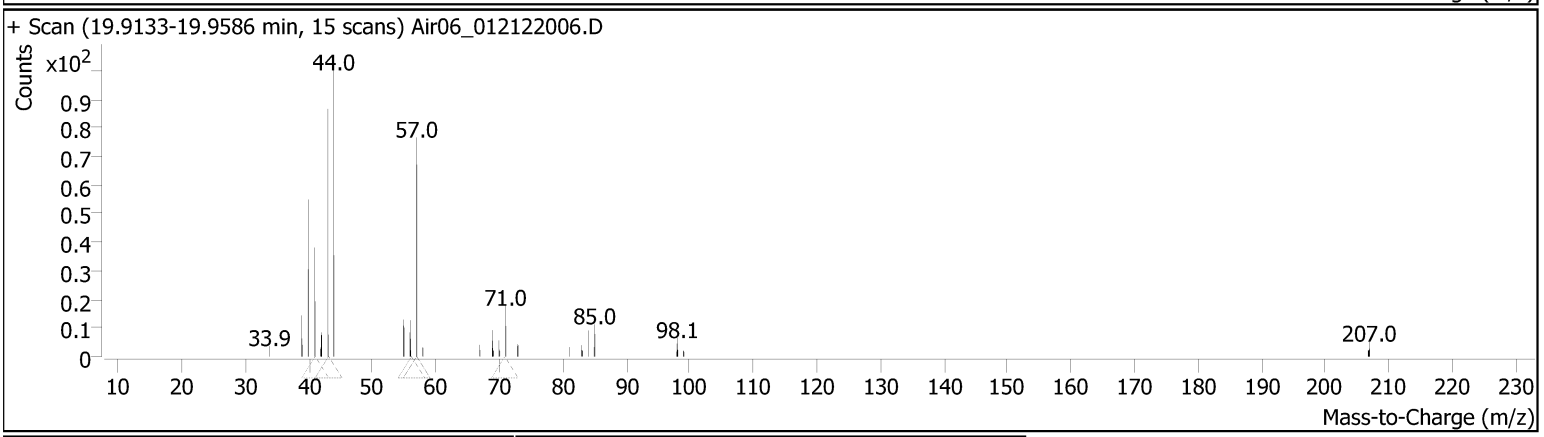



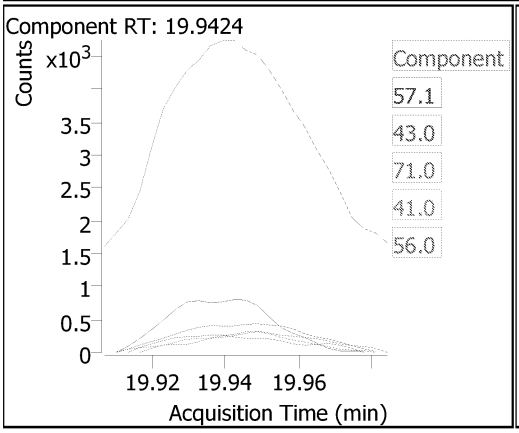



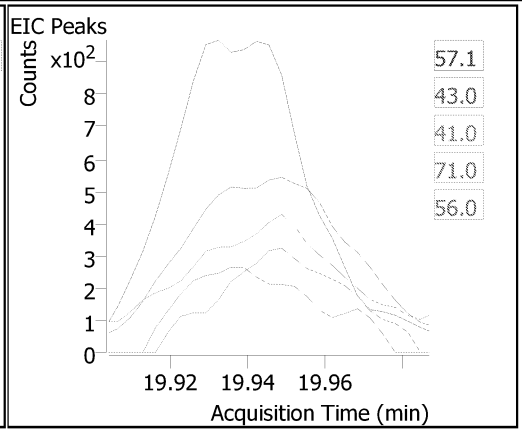
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.9424 | Heptane, 2,3,6-trimethyl- | 8323.0 | 85.6 | 4032-93-3 | C10H22 | 0.01736 |

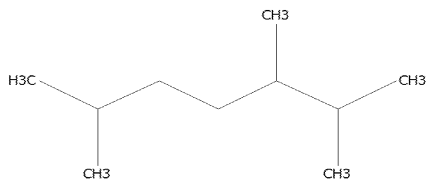


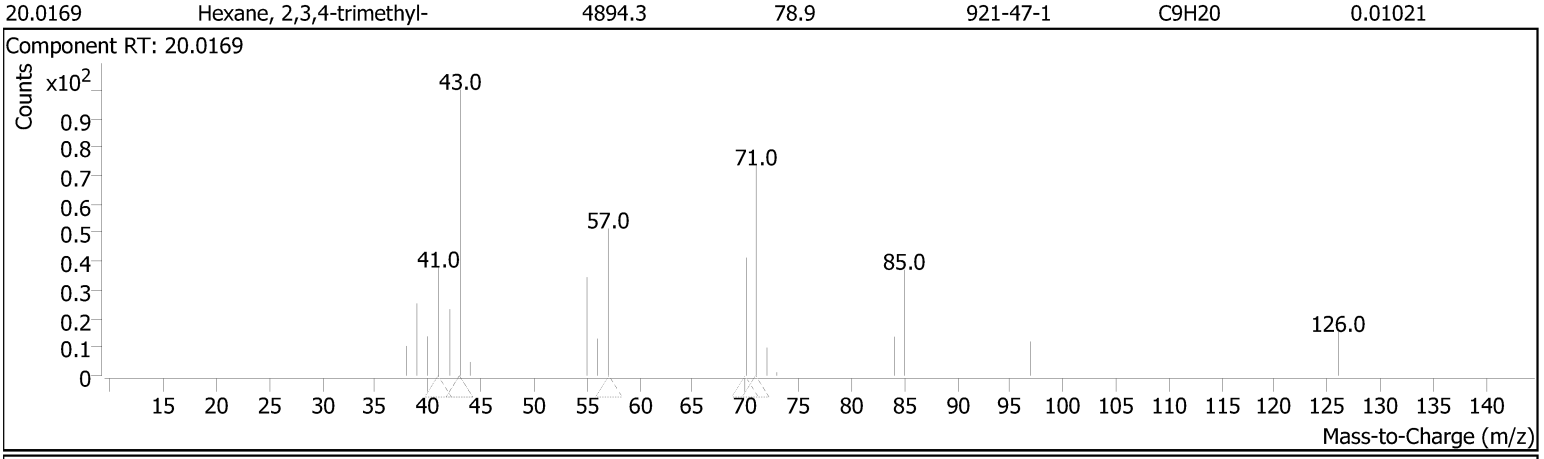



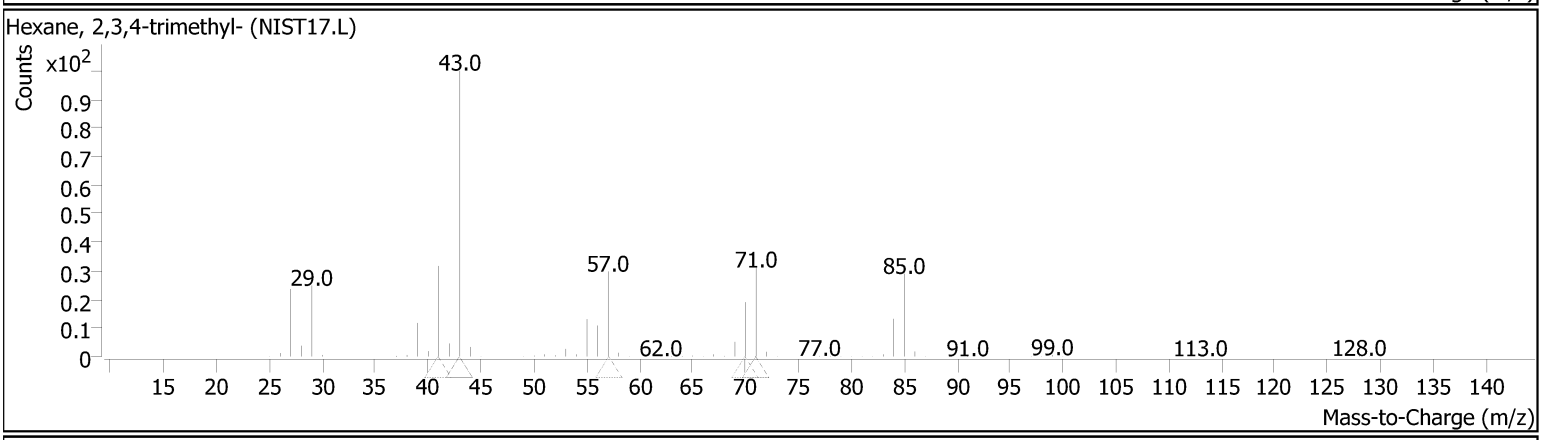



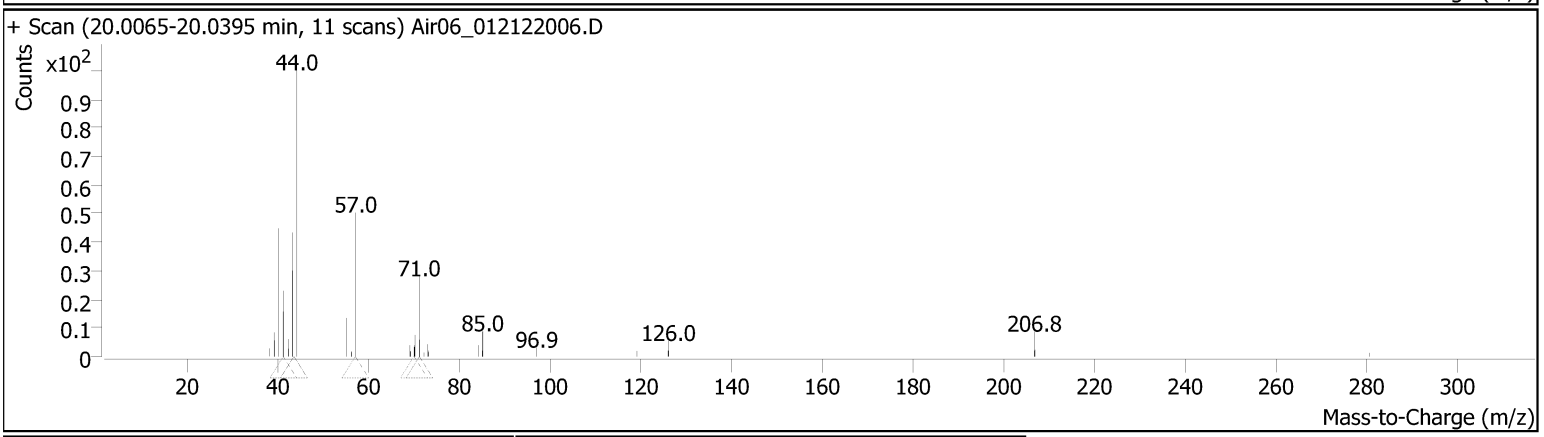



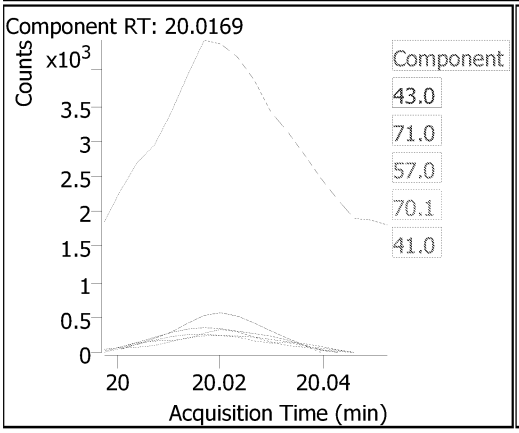



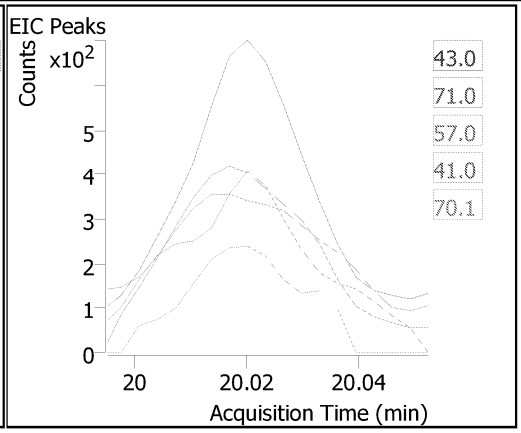
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0169 | Hexane, 2,3,4-trimethyl- | 4894.3 | 78.9 | 921-47-1 | C9H20 | 0.01021 |

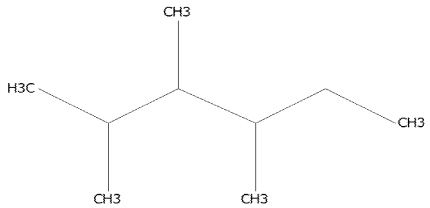


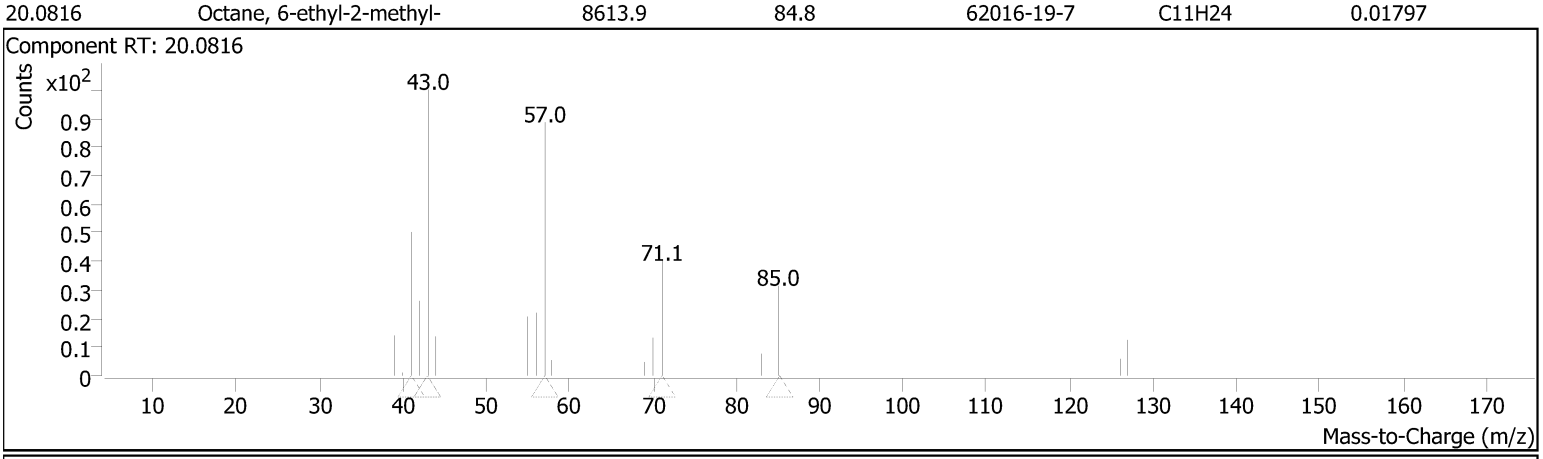



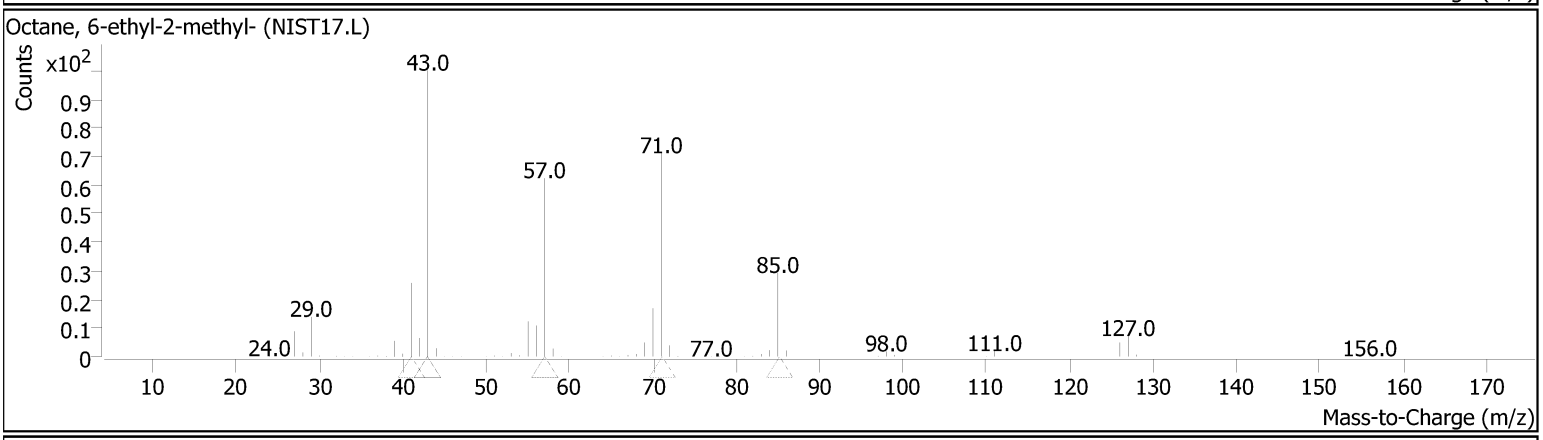



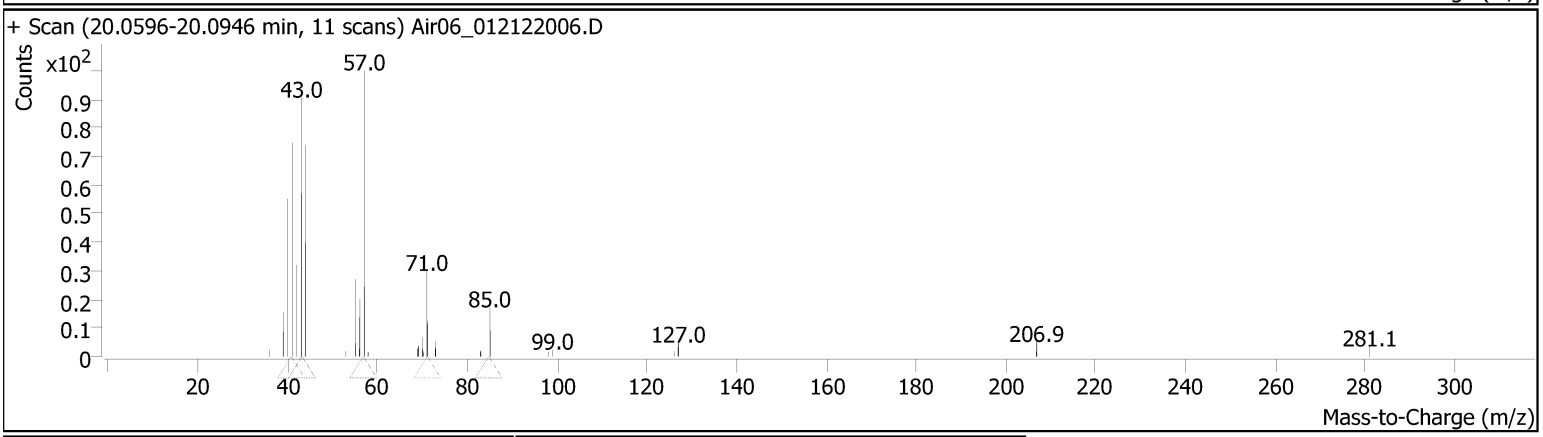



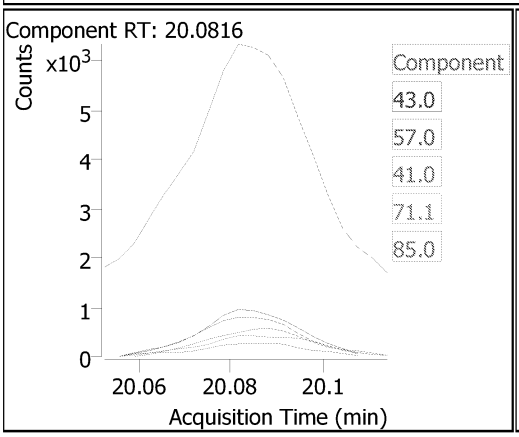



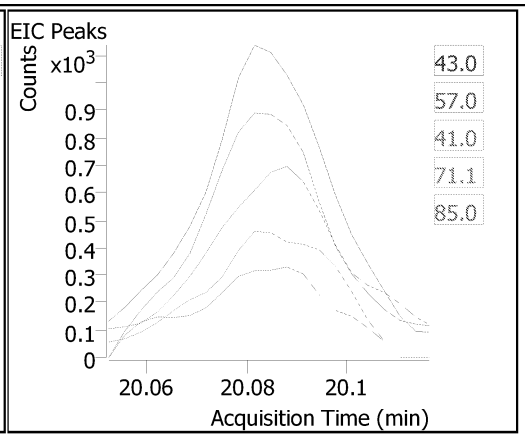
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0816 | Octane, 6-ethyl-2-methyl- | 8613.9 | 84.8 | 62016-19-7 | C11H24 | 0.01797 |

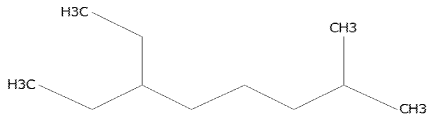


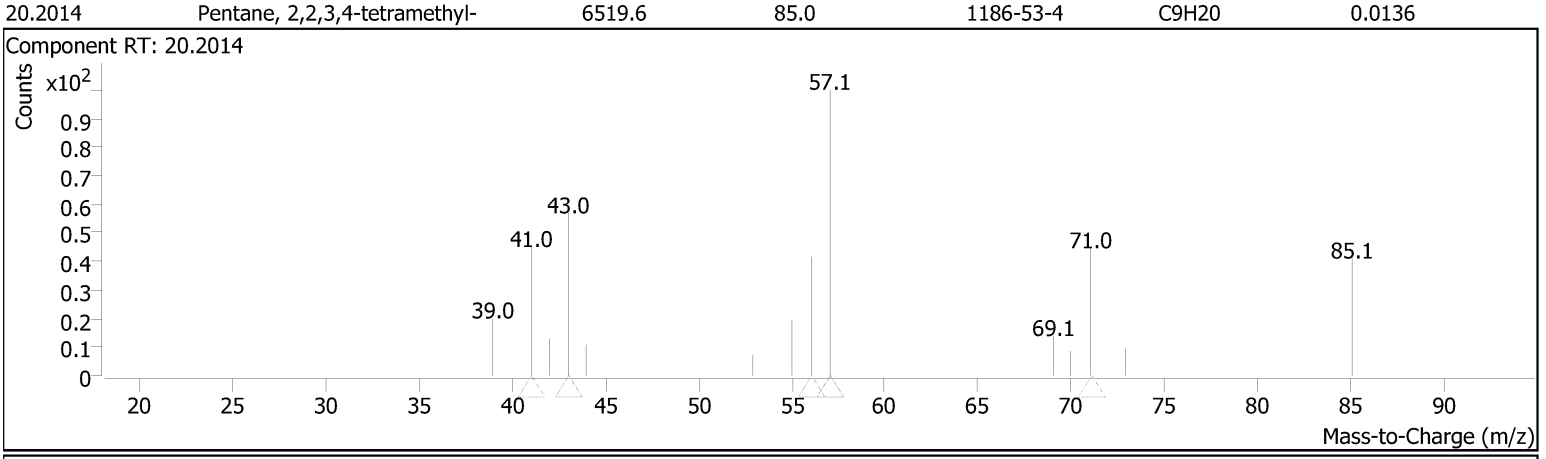



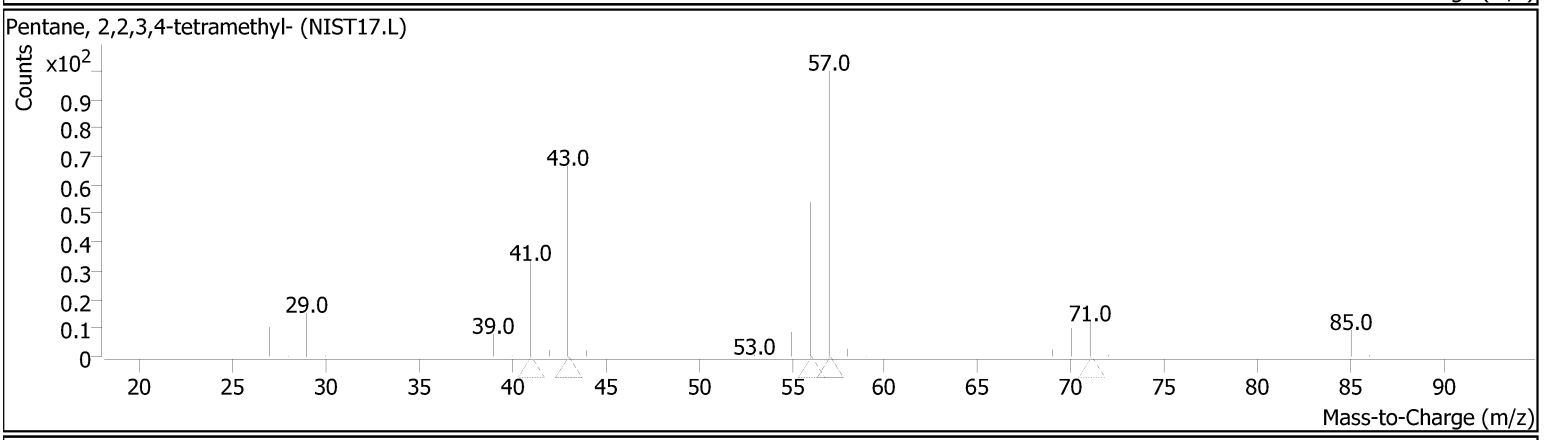



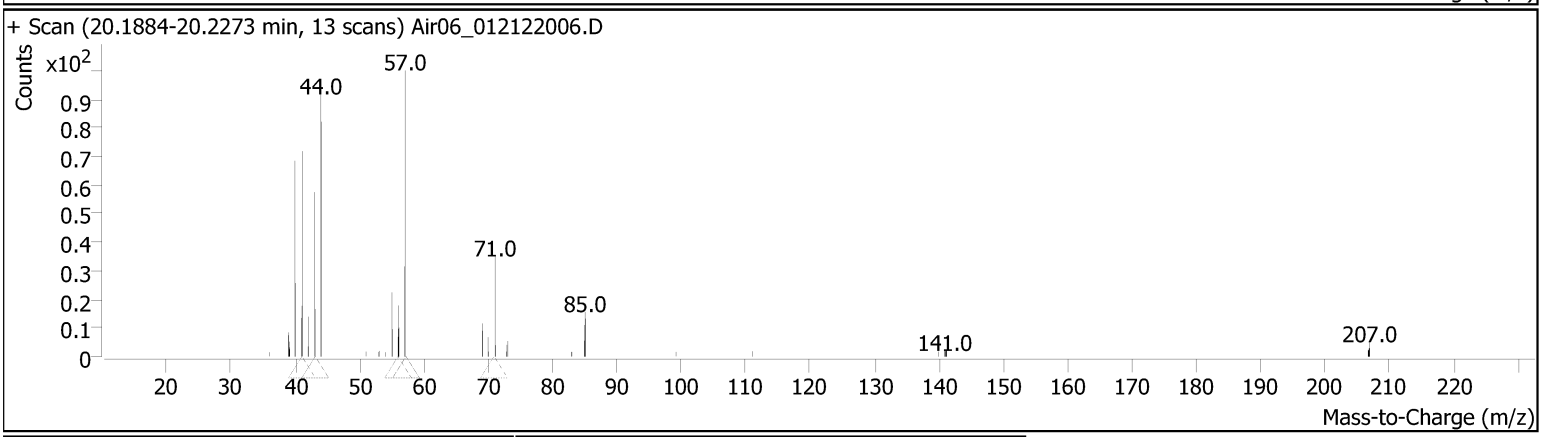



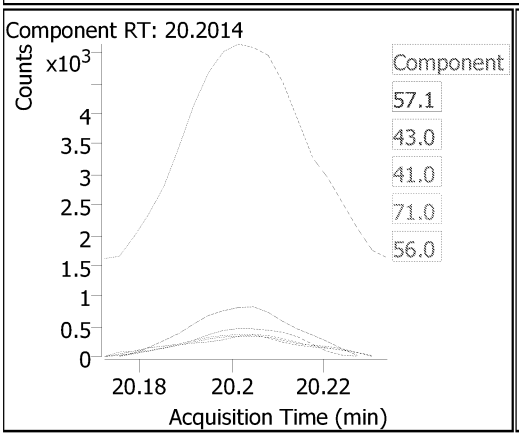



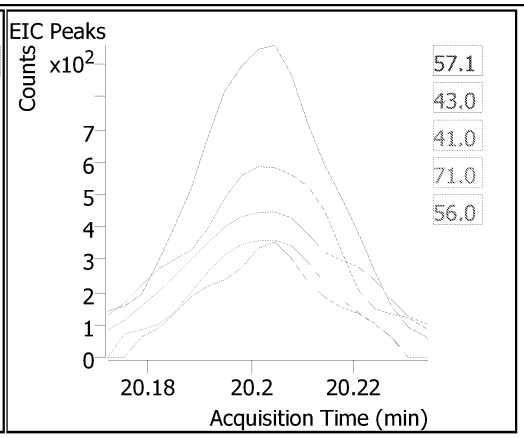
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.2014 | Pentane, 2,2,3,4-tetramethyl- | 6519.6 | 85.0 | 1186-53-4 | C9H20 | 0.0136 |

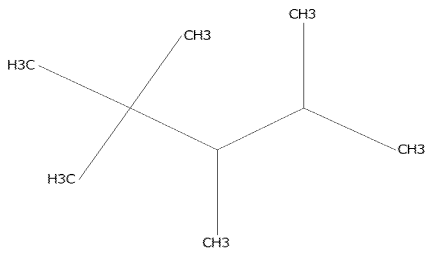


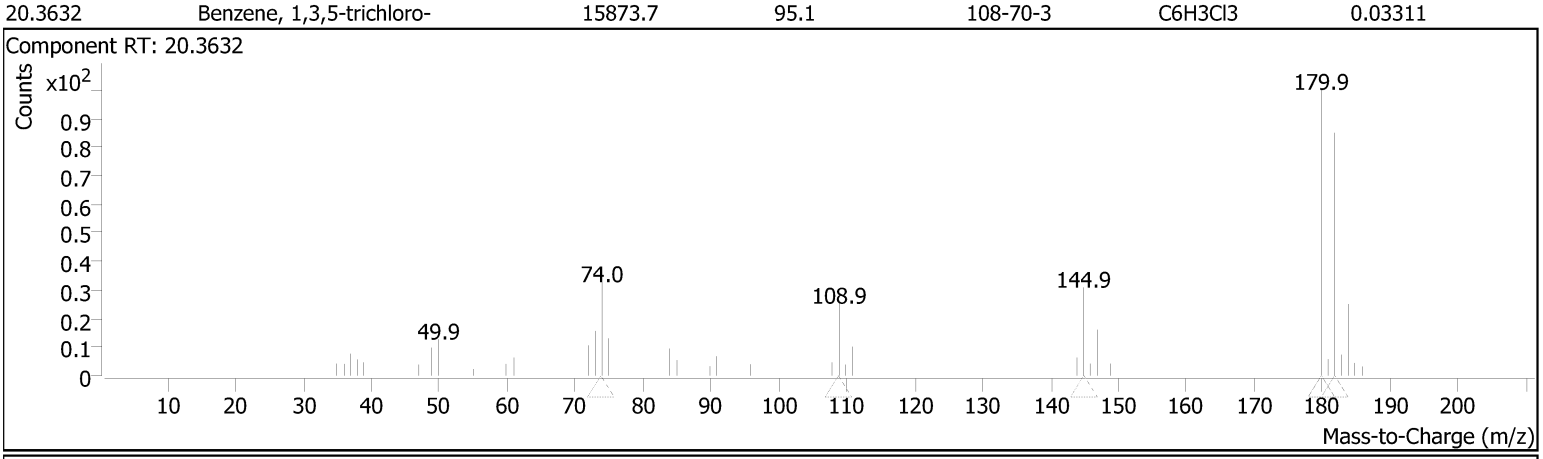



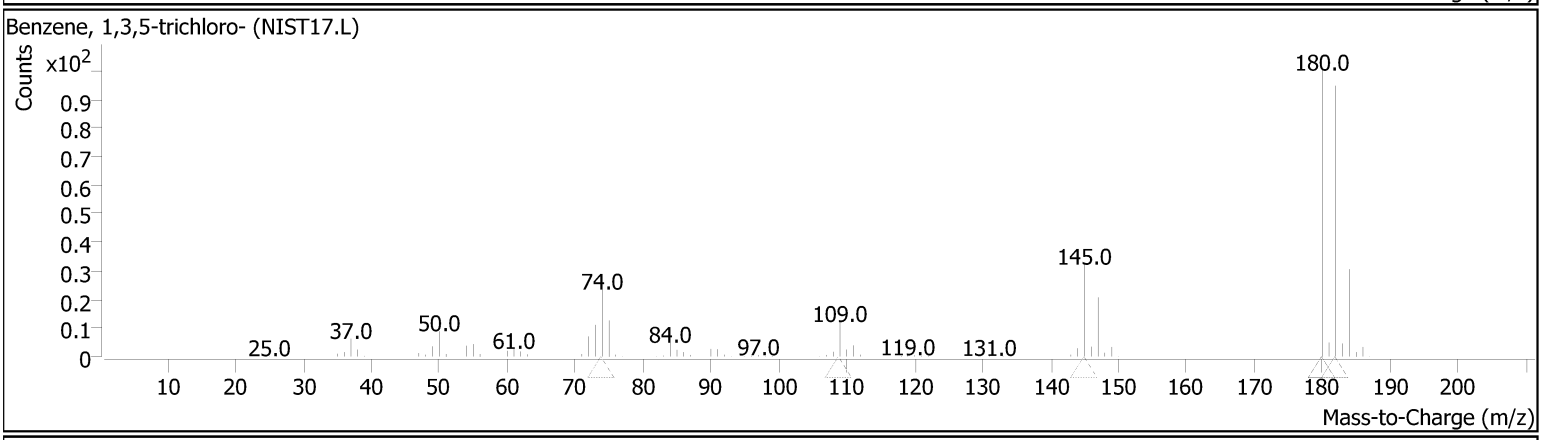



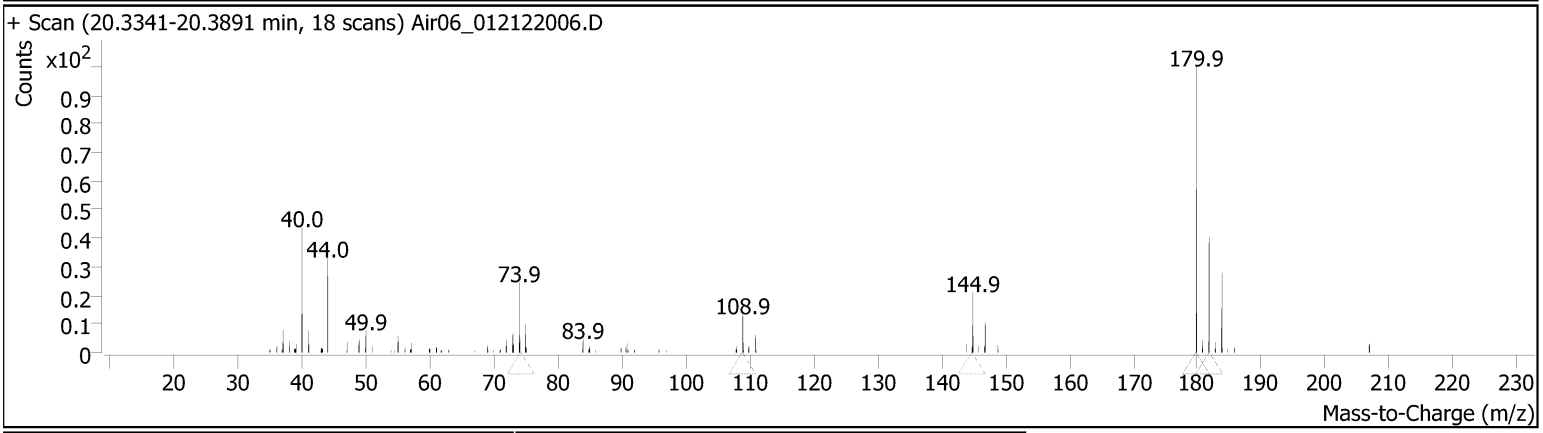
# Library Search Results - NonTarget Hits with Details

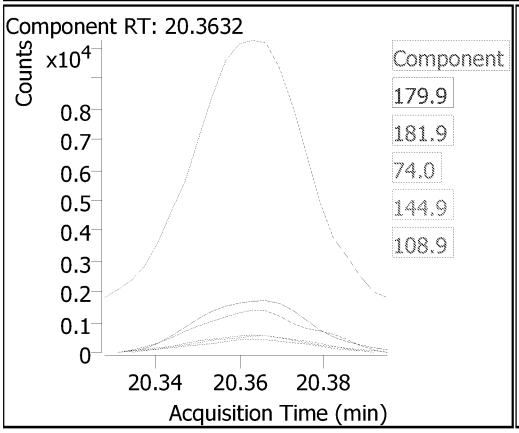
Agilent Technologies

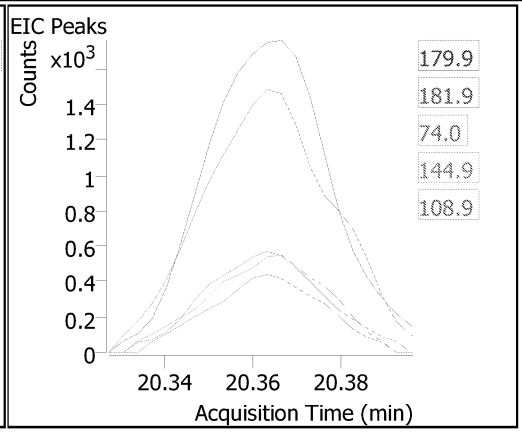
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3632 | Benzene, 1,3,5-trichloro- | 15873.7 | 95.1 | 108-70-3 | C6H3Cl3 | 0.03311 |

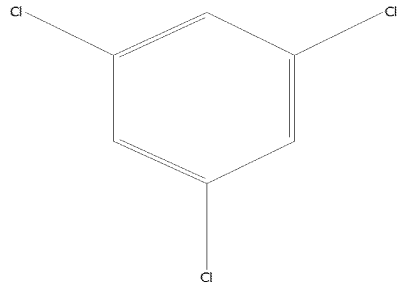


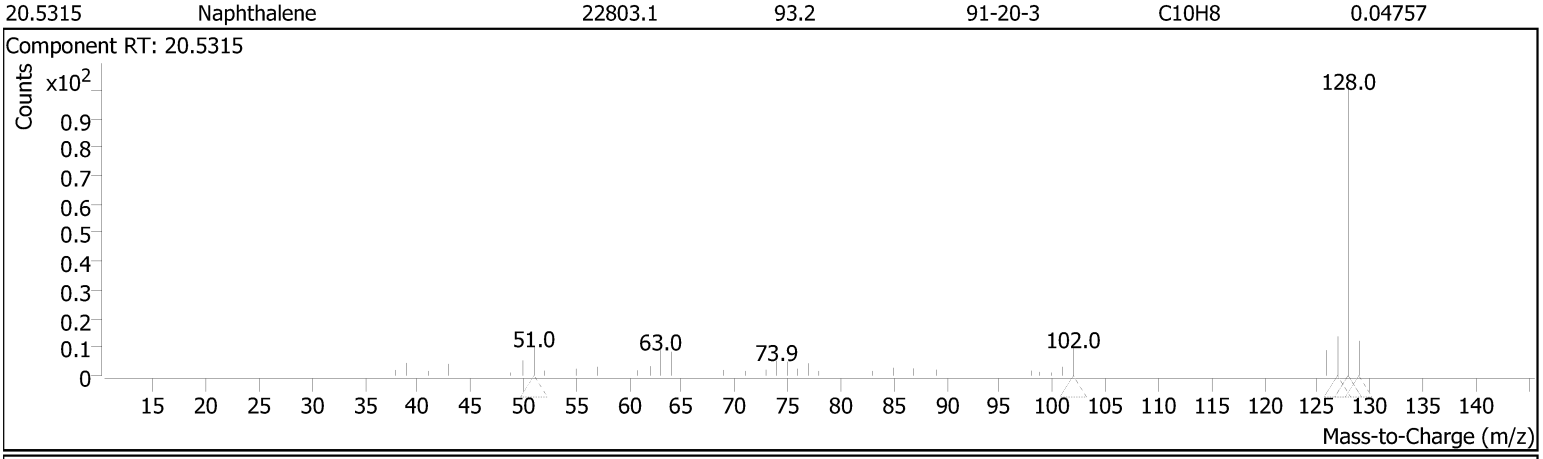



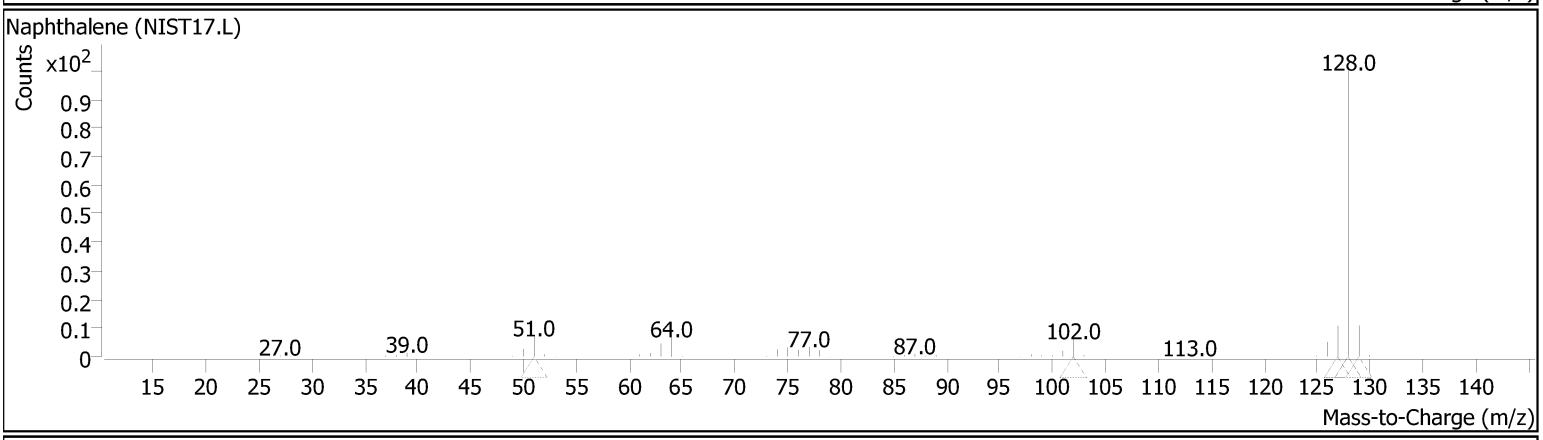



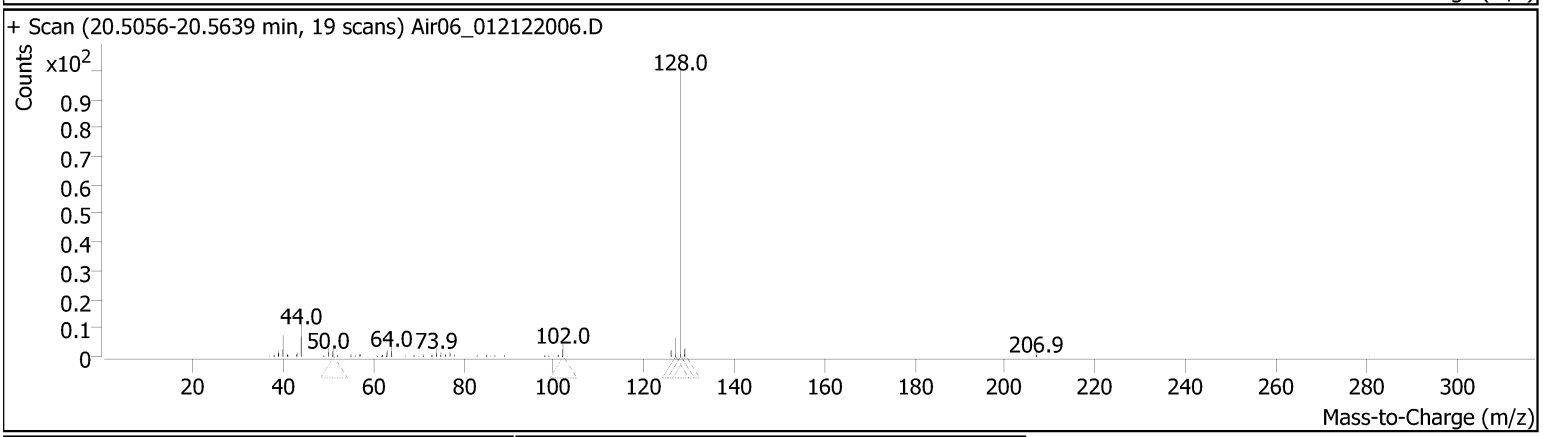



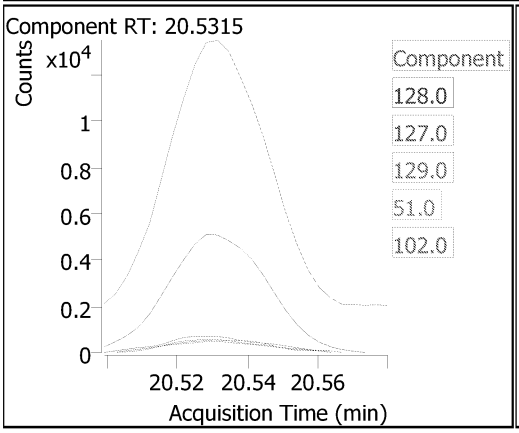



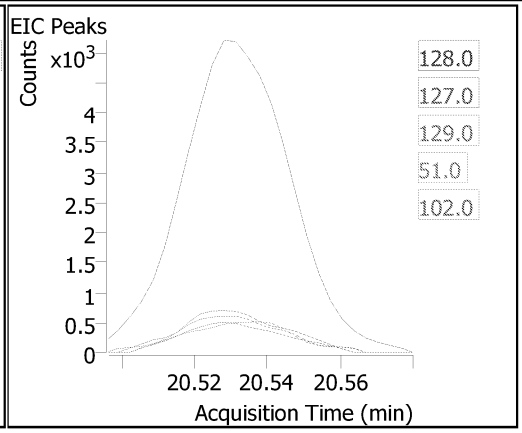
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.5315 | Naphthalene | 22803.1 | 93.2 | 91-20-3 | C10H8 | 0.04757 |

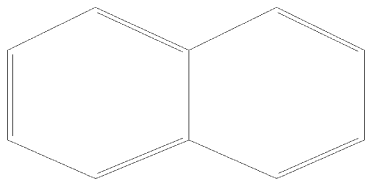


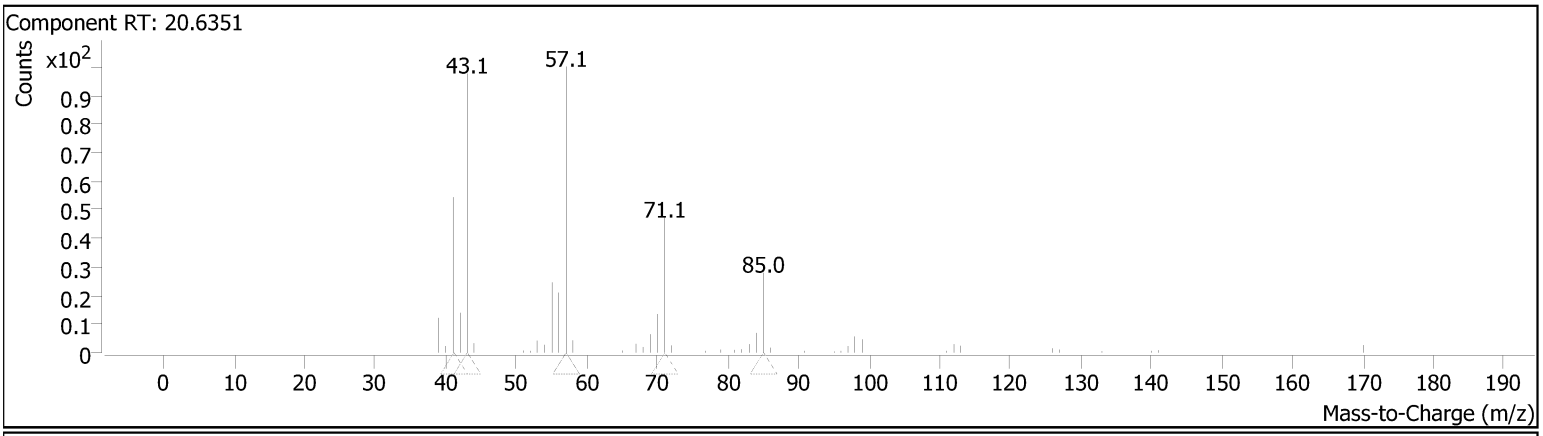



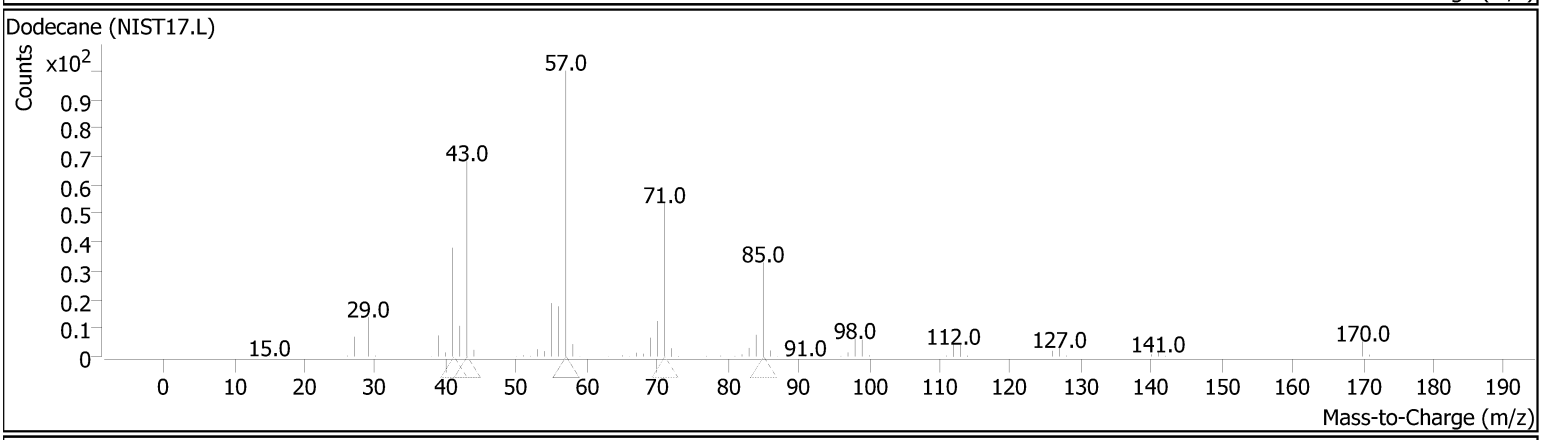



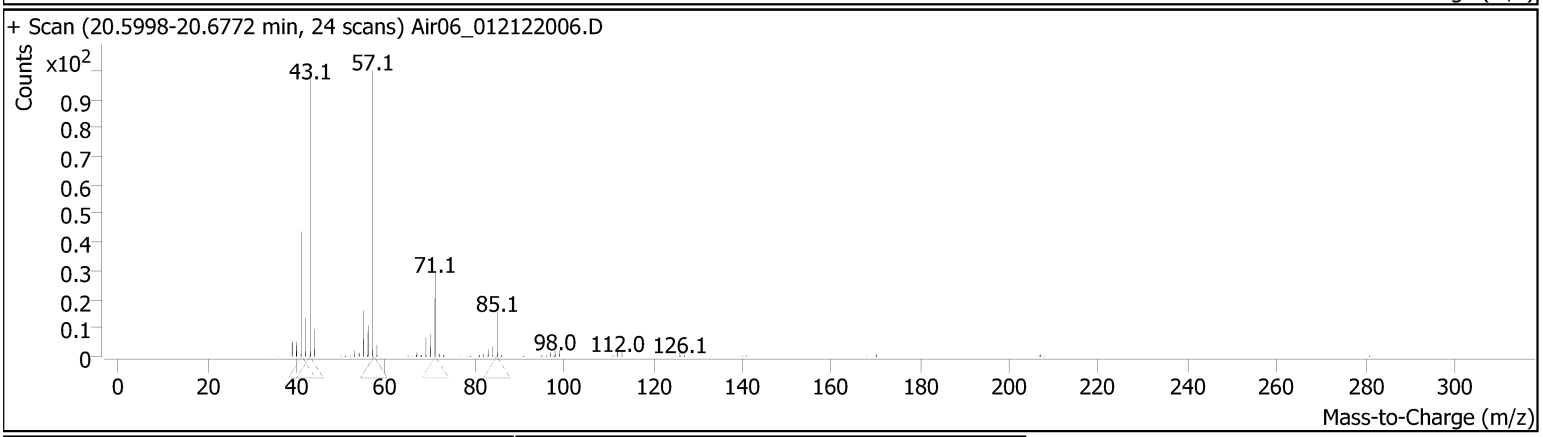



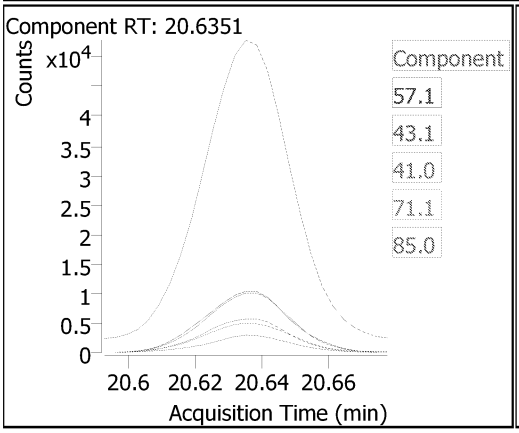



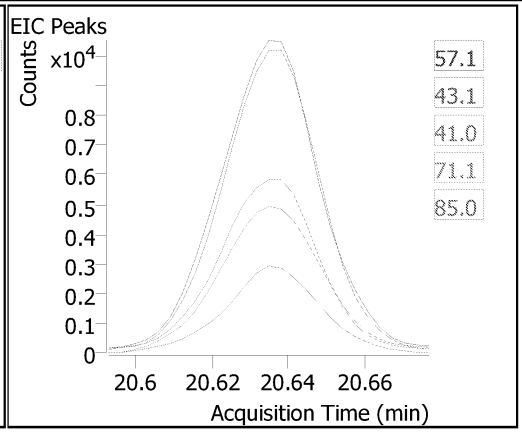
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.6351 | Dodecane | 94068.0 | 96.6 | 112-40-3 | C12H26 | 0.1962 |



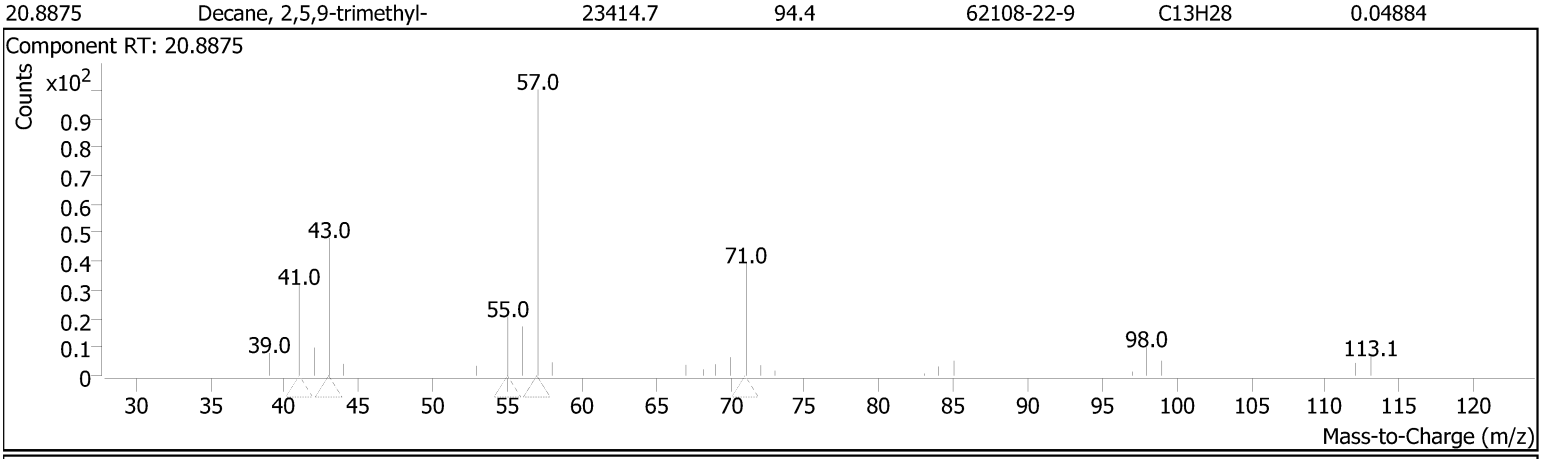



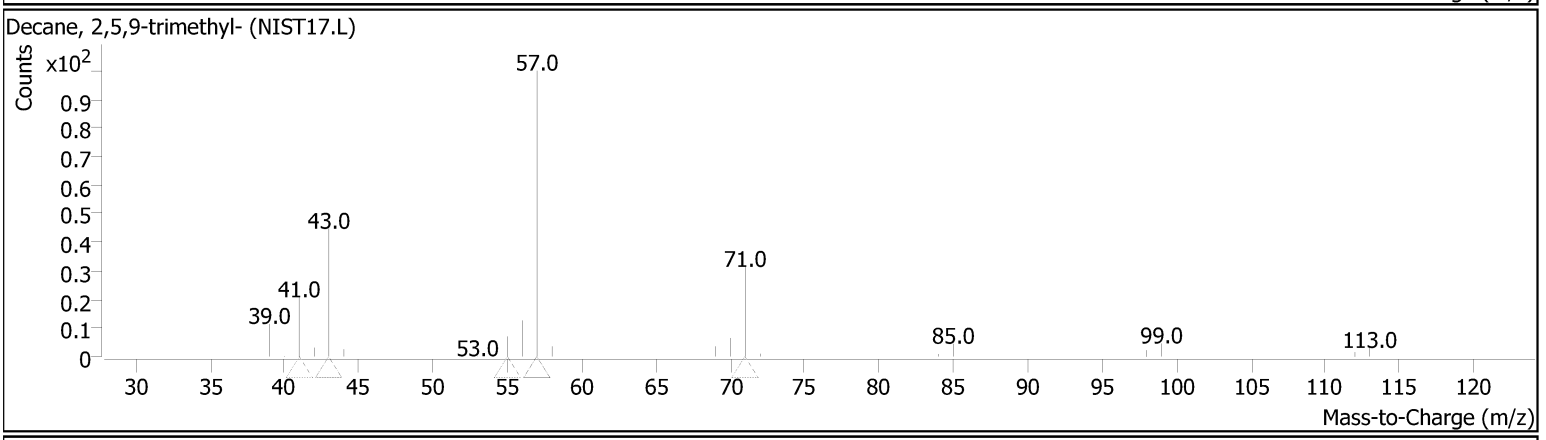



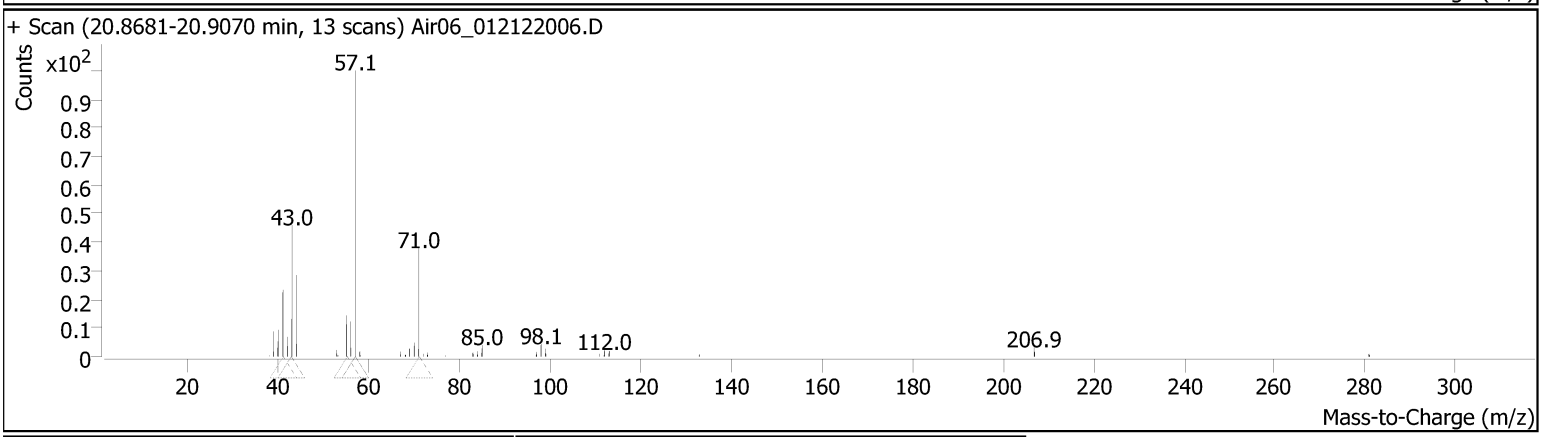



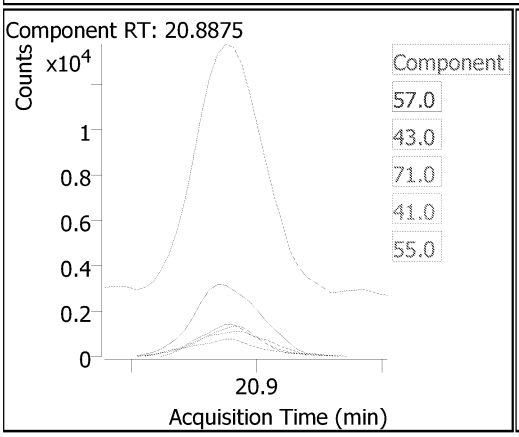


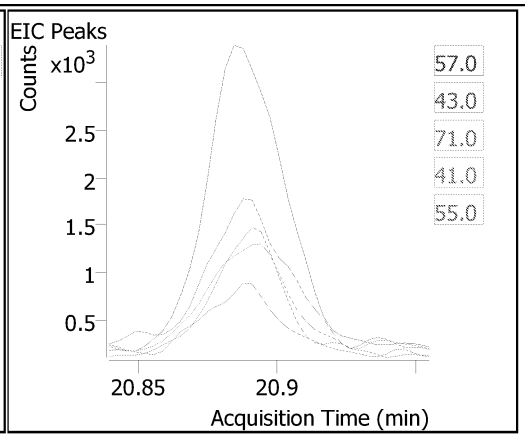

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.8875 | Decane, 2,5,9-trimethyl- | 23414.7 | 94.4 | 62108-22-9 | C13H28 | 0.04884 |

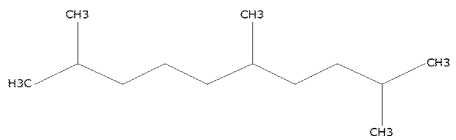


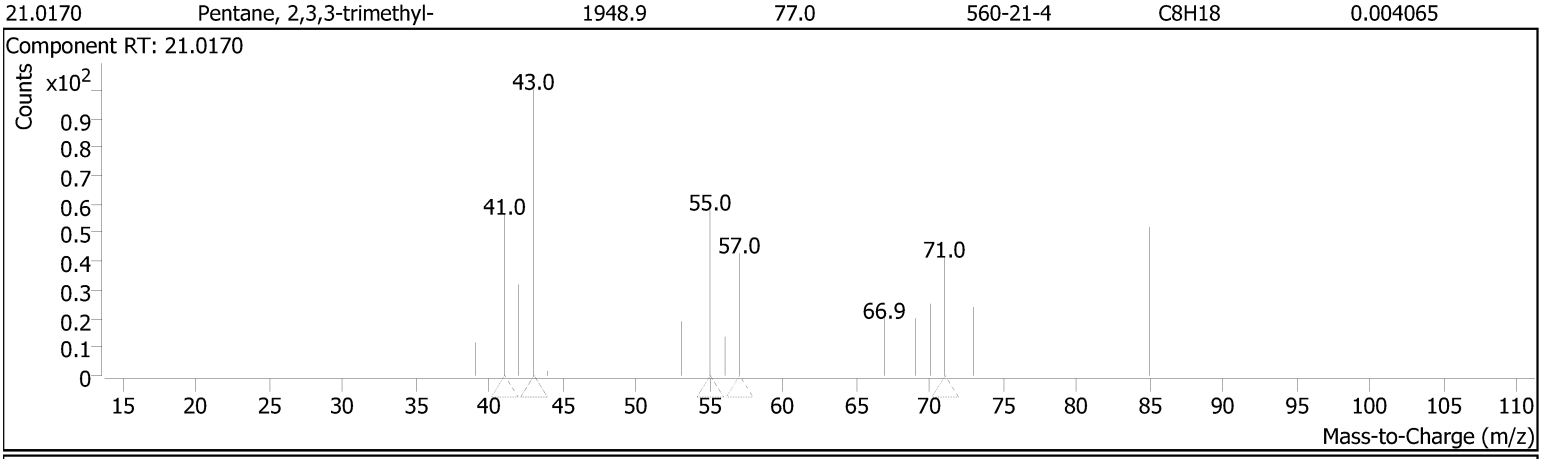



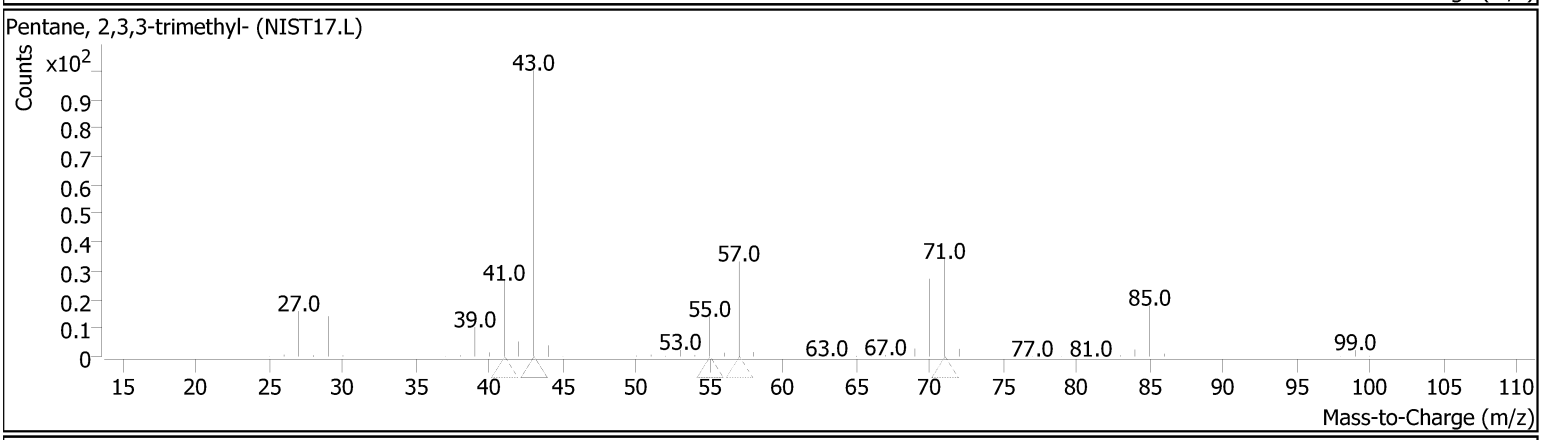



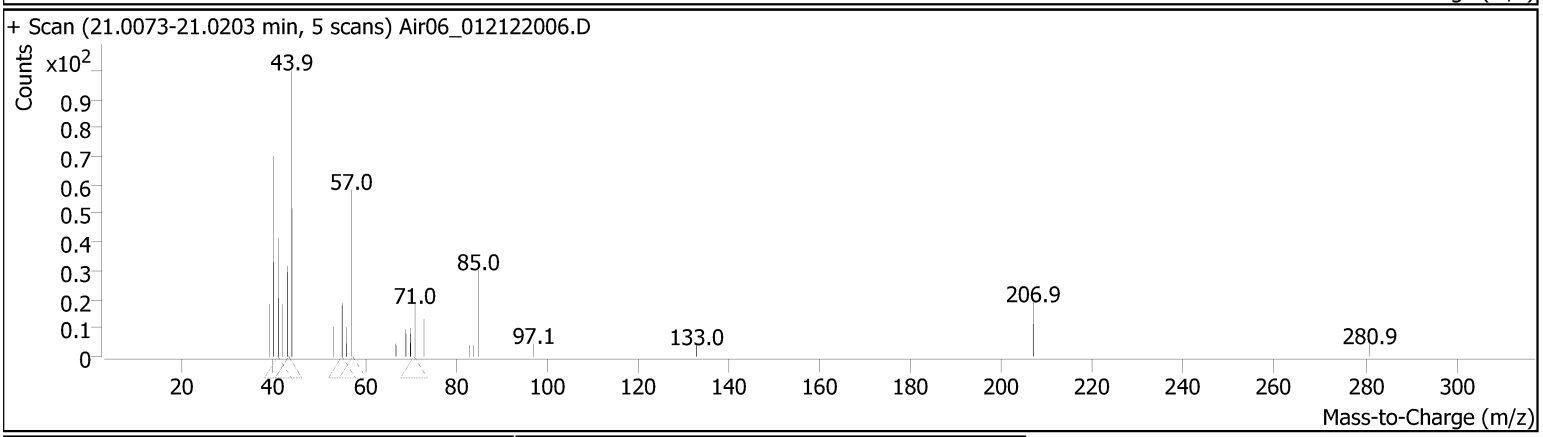



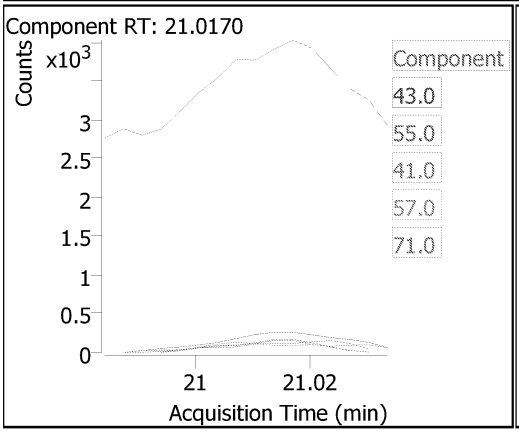



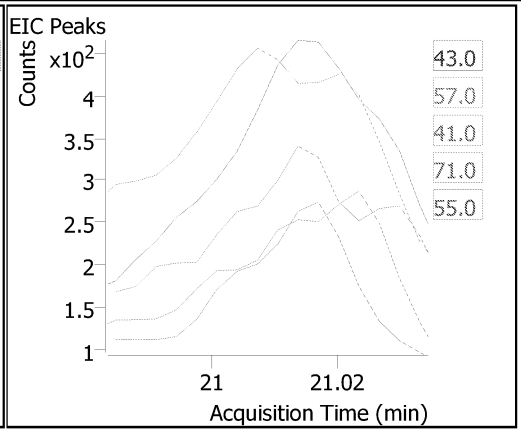
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.0170 | Pentane, 2,3,3-trimethyl- | 1948.9 | 77.0 | 560-21-4 | C8H18 | 0.004065 |

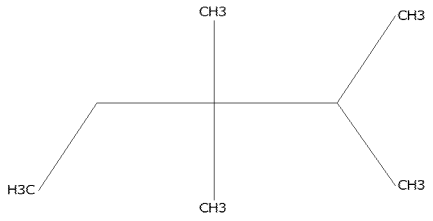


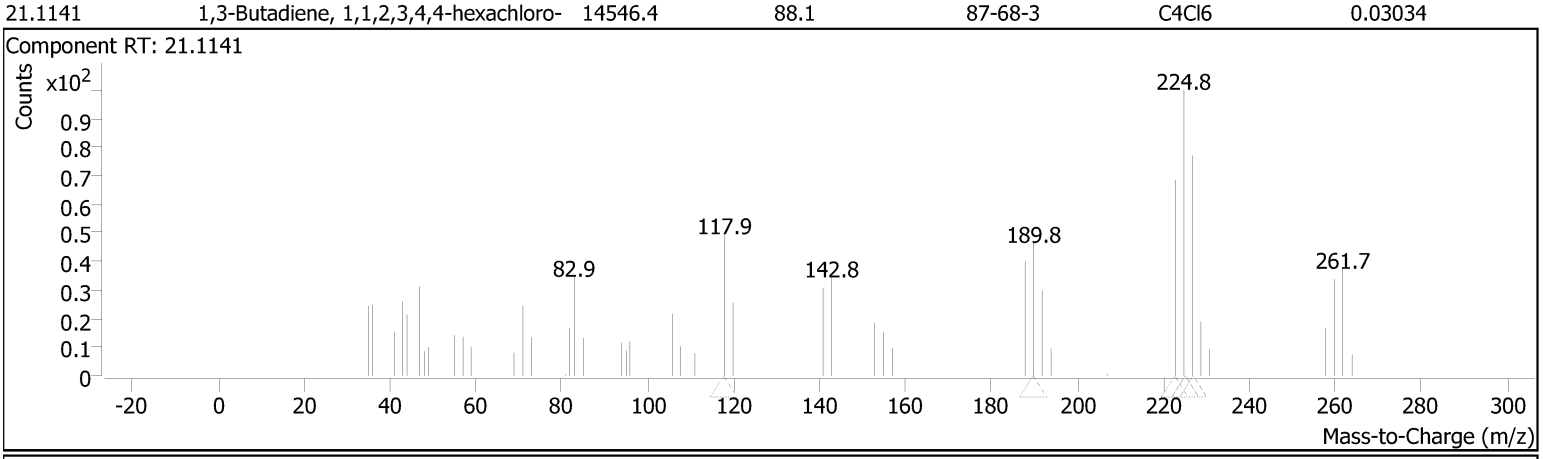



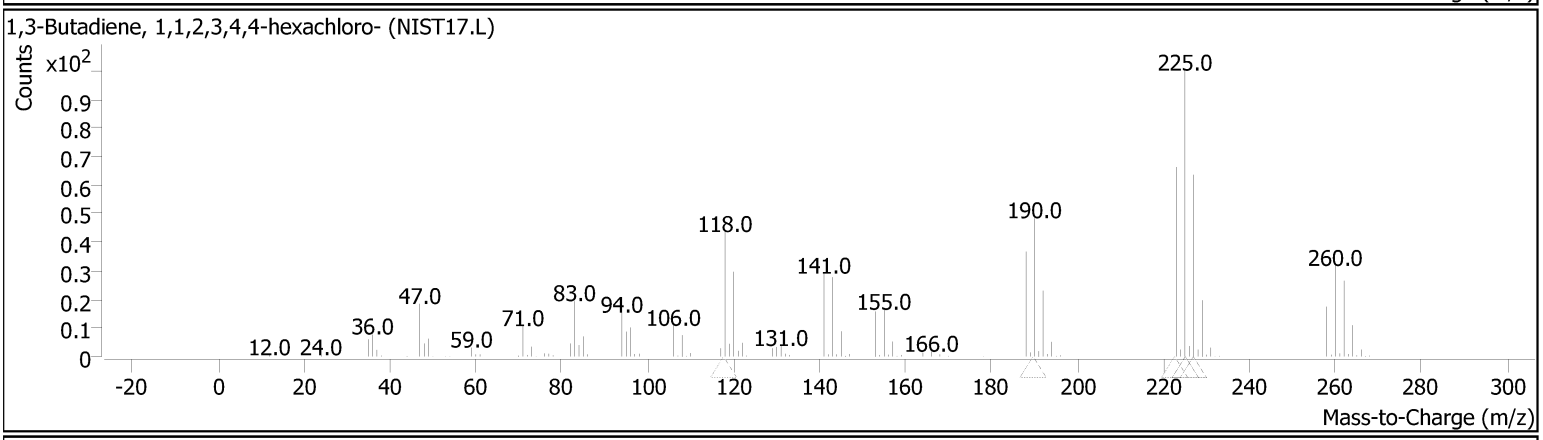



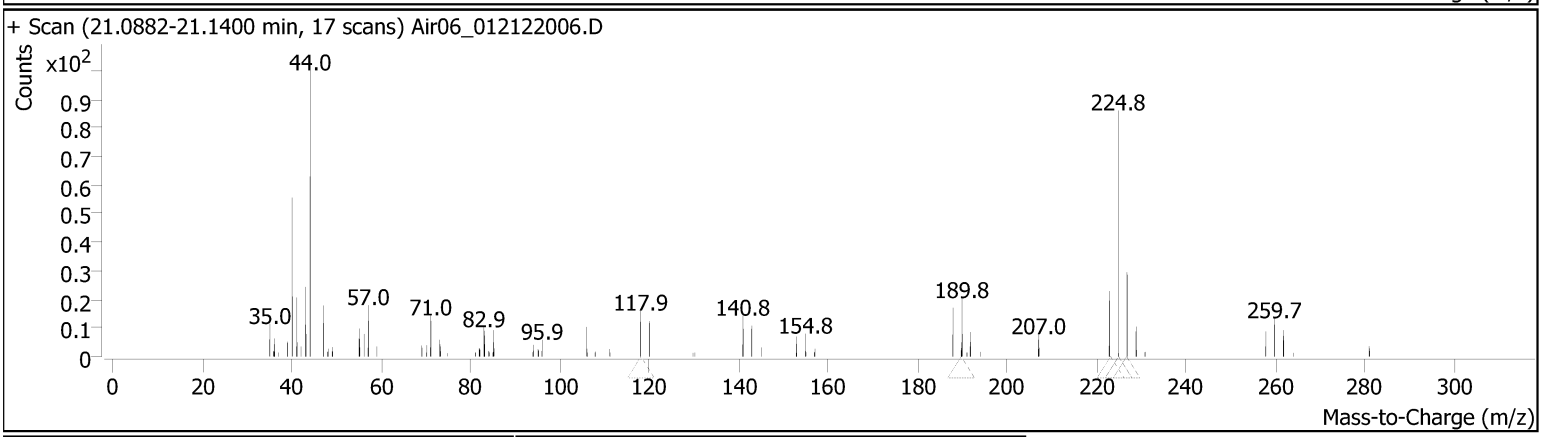



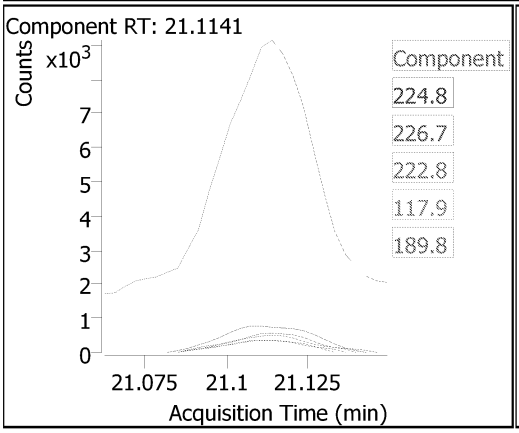



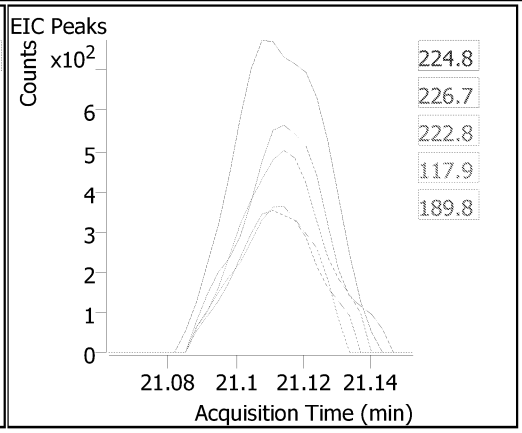
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.1141 | 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 14546.4 | 88.1 | 87-68-3 | C4Cl6 | 0.03034 |

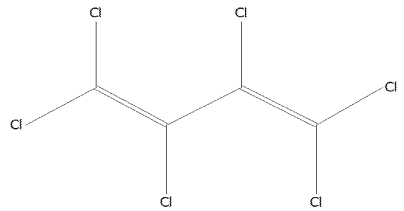


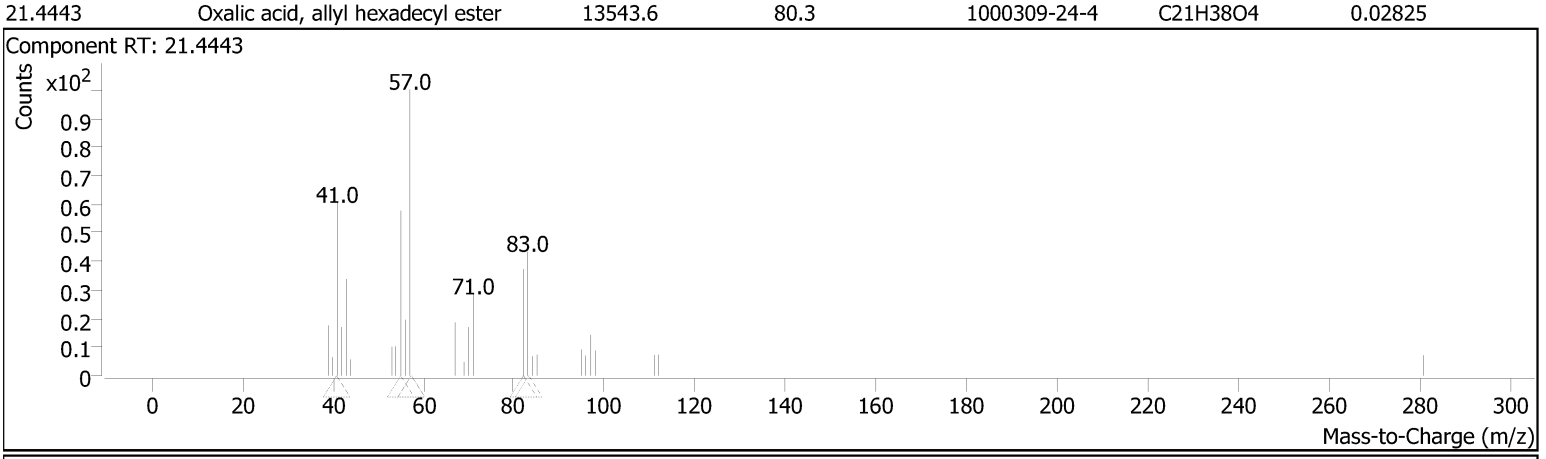



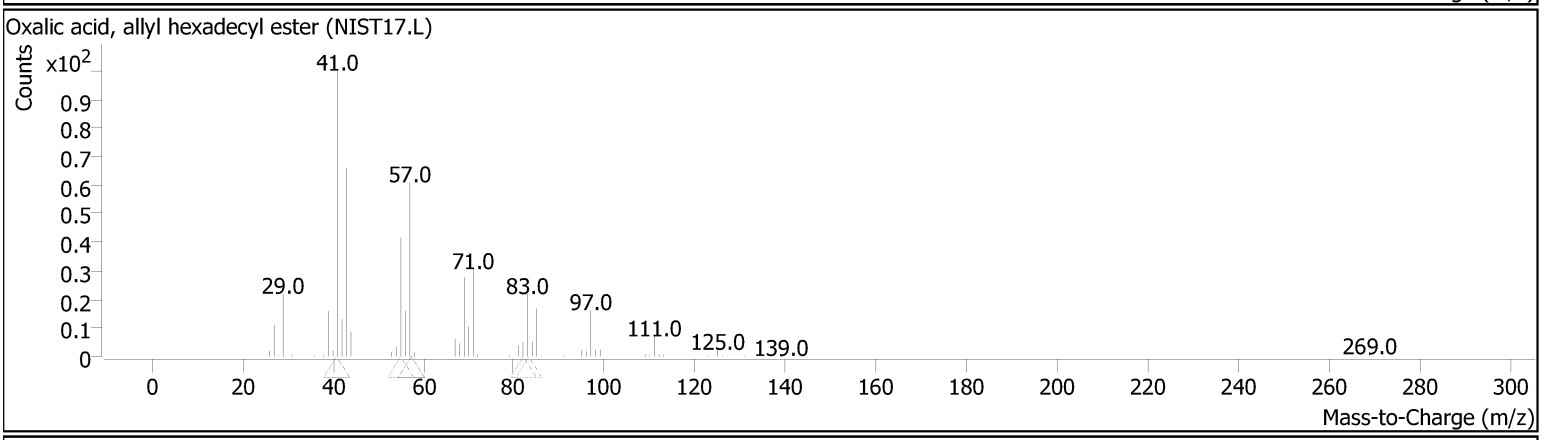



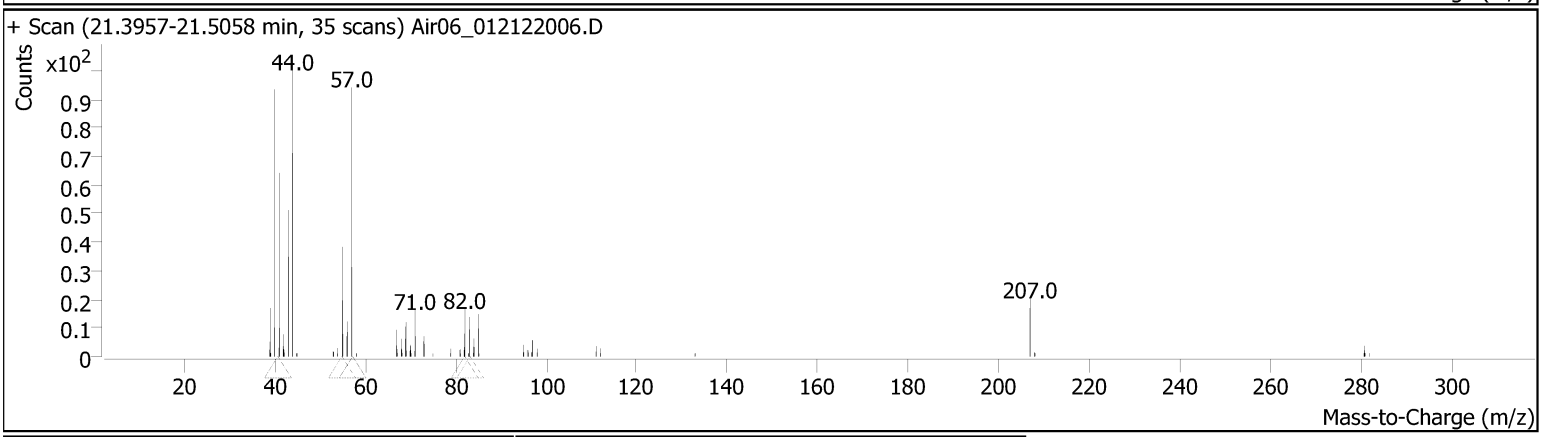



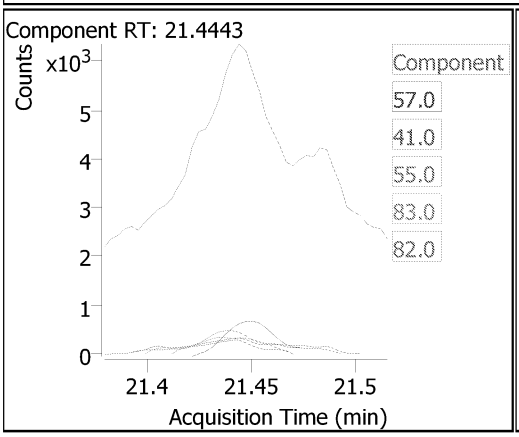



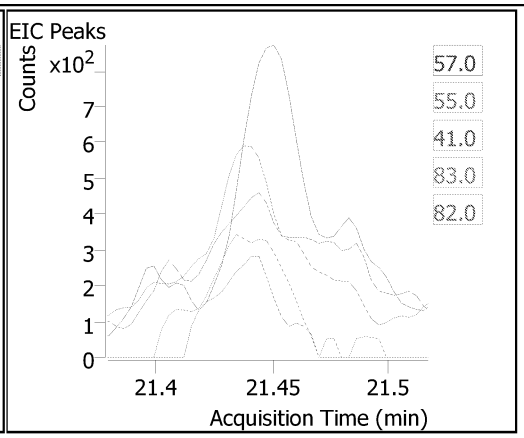
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.4443 | Oxalic acid, allyl hexadecyl ester | 13543.6 | 80.3 | 1000309-24-4 | C21H38O4 | 0.02825 |

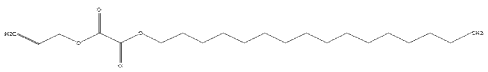


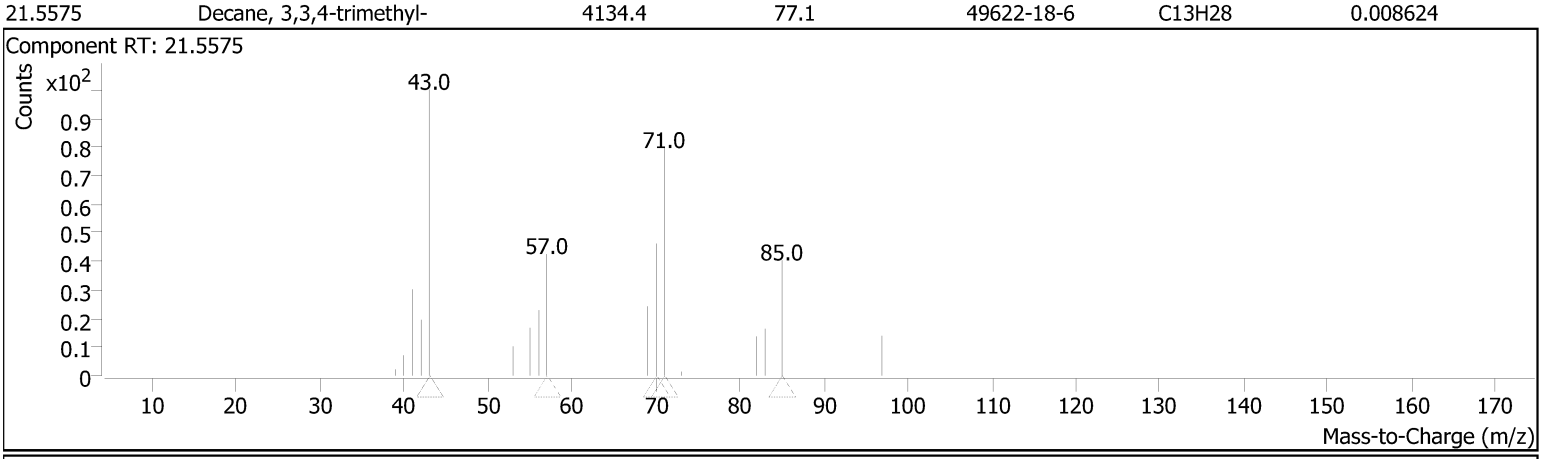



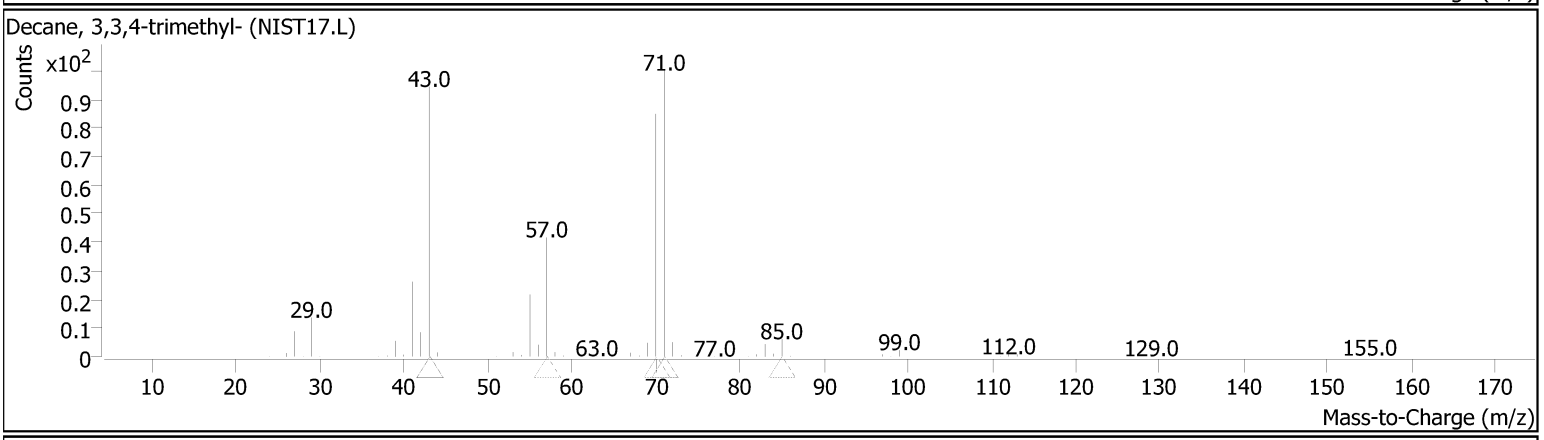



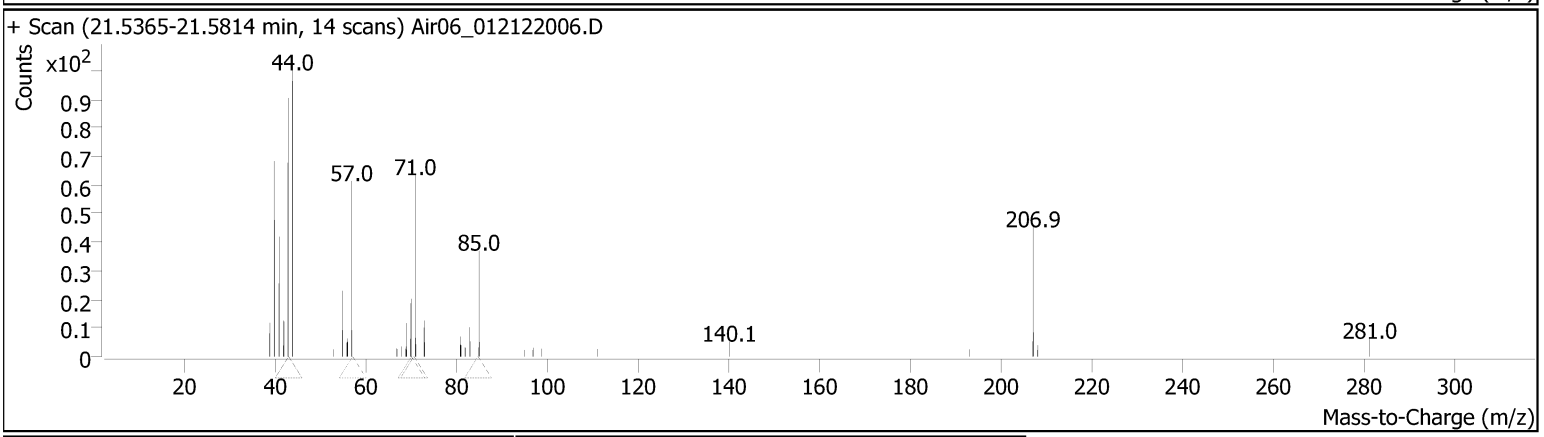



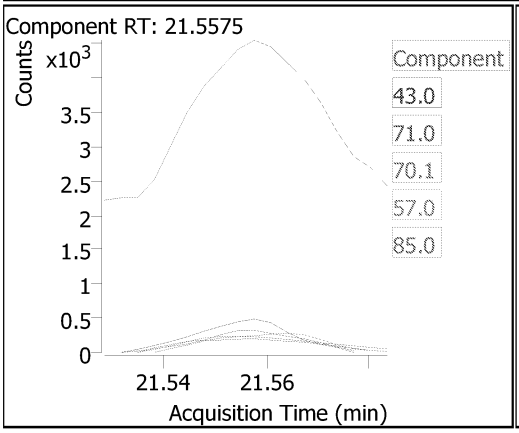



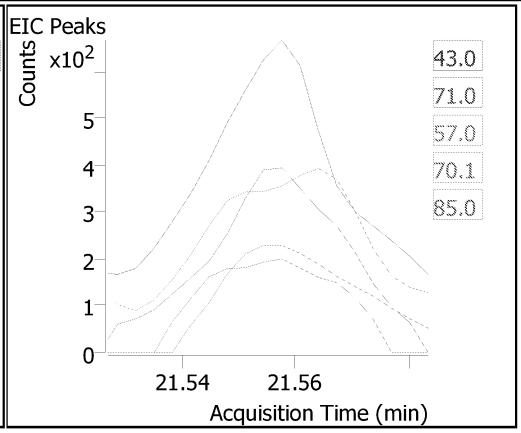
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.5575 | Decane, 3,3,4-trimethyl- | 4134.4 | 77.1 | 49622-18-6 | C13H28 | 0.008624 |

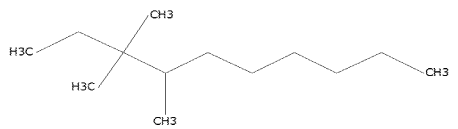


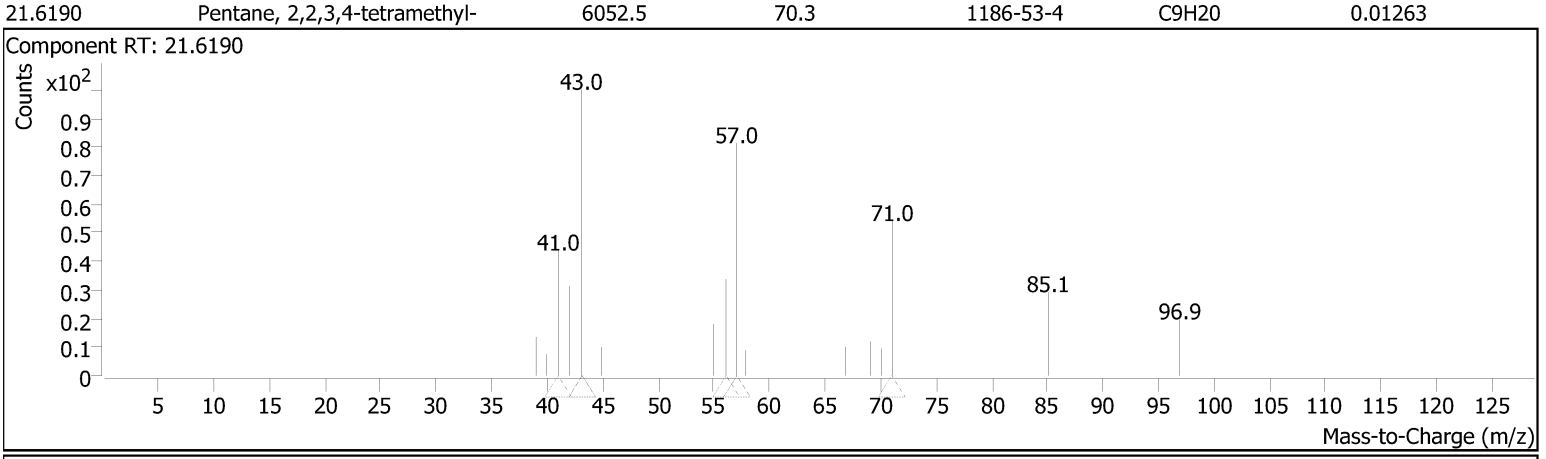



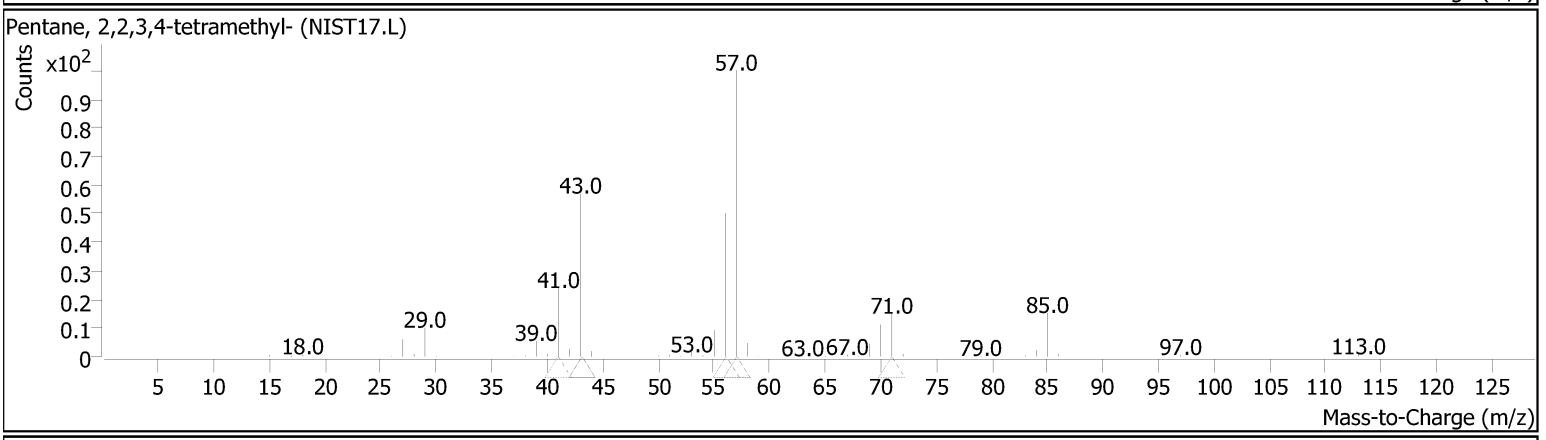



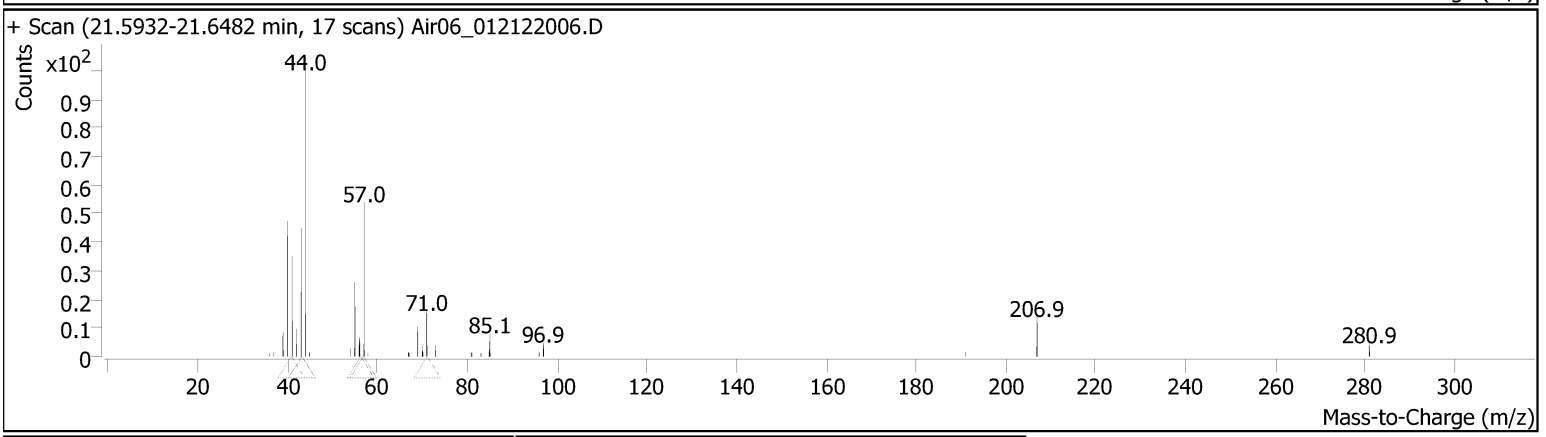



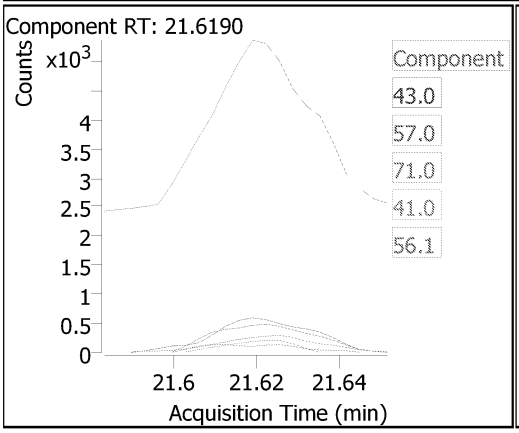



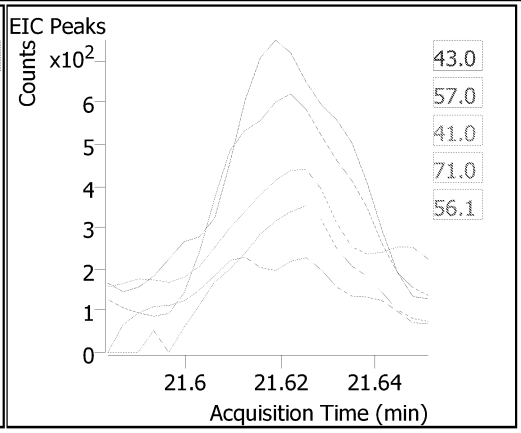
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.6190 | Pentane, 2,2,3,4-tetramethyl- | 6052.5 | 70.3 | 1186-53-4 | C9H20 | 0.01263 |

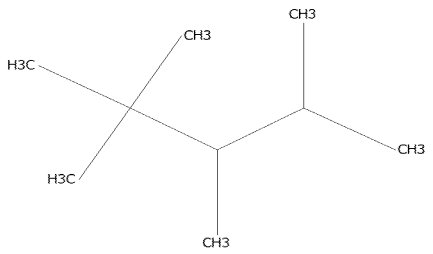


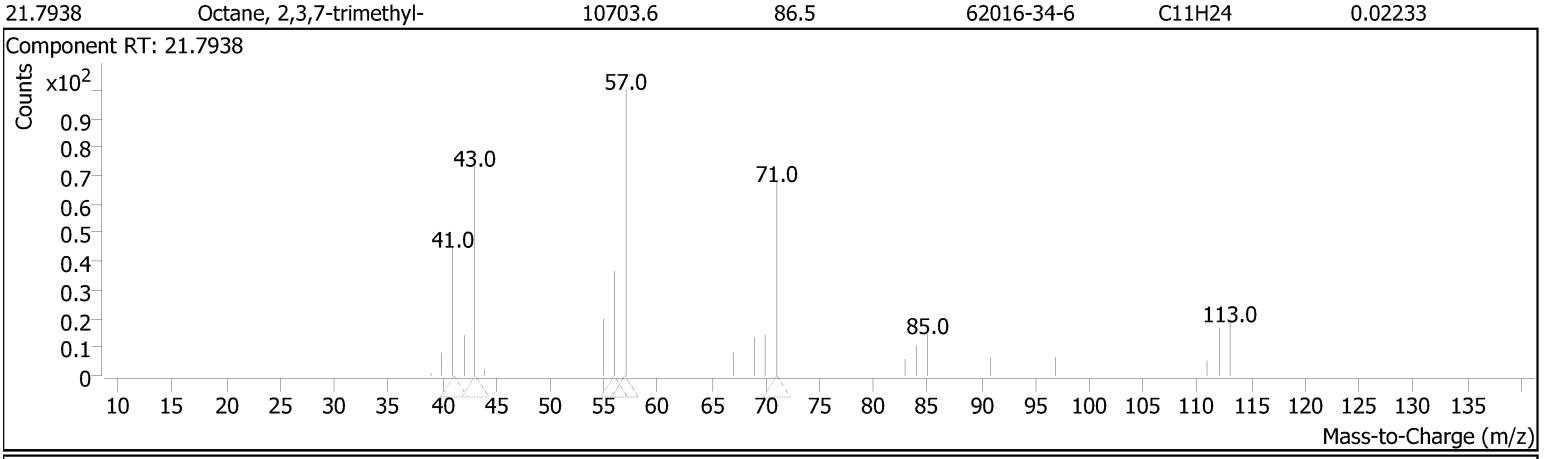



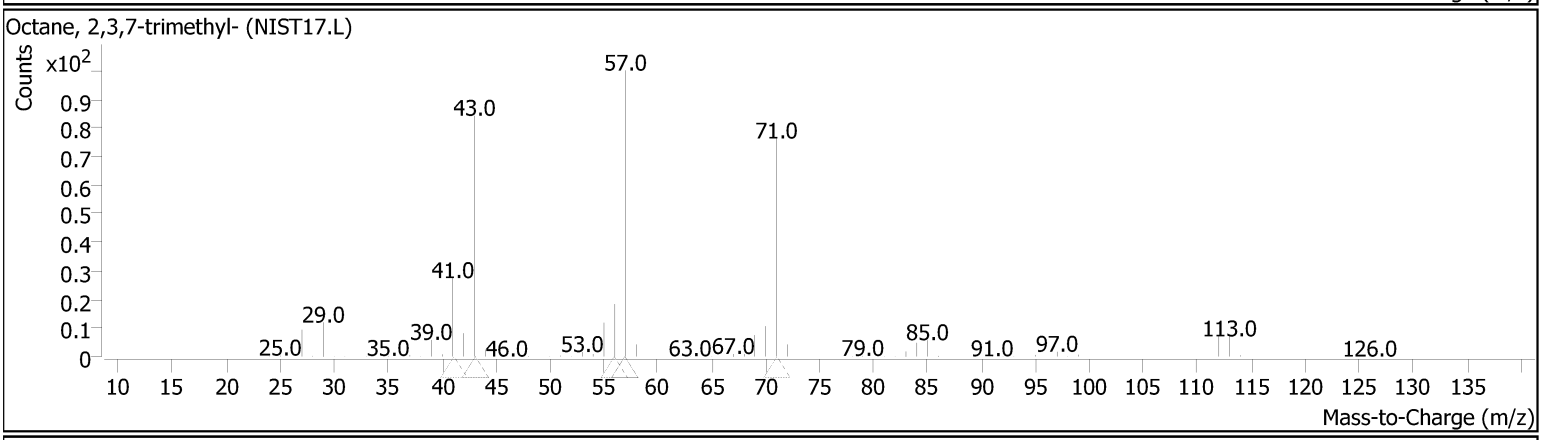



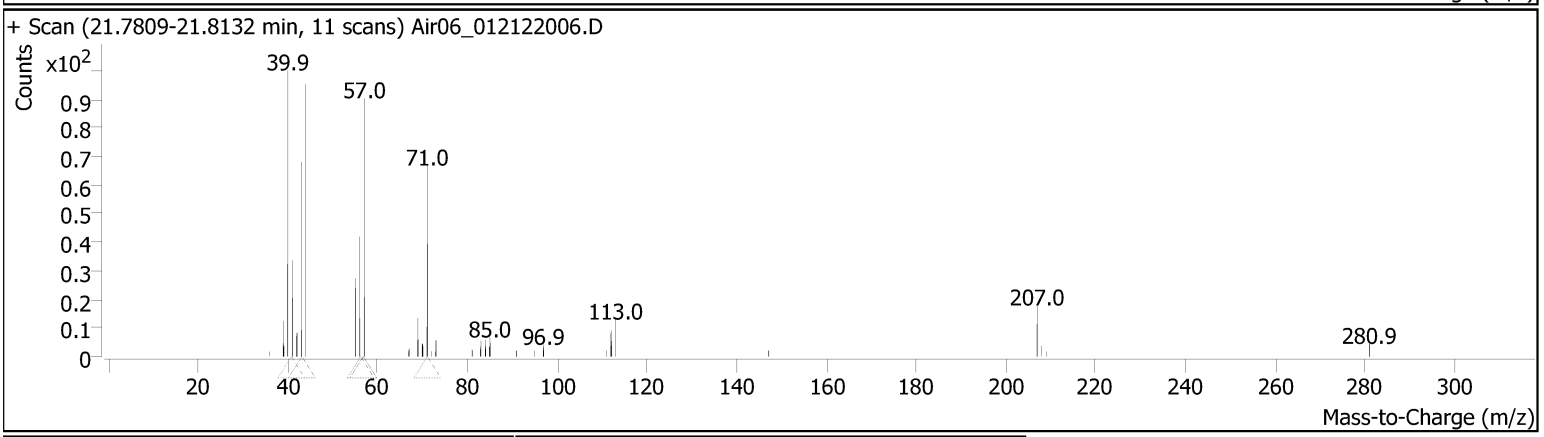



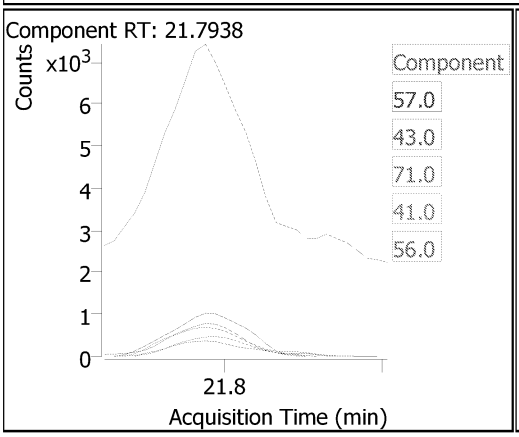



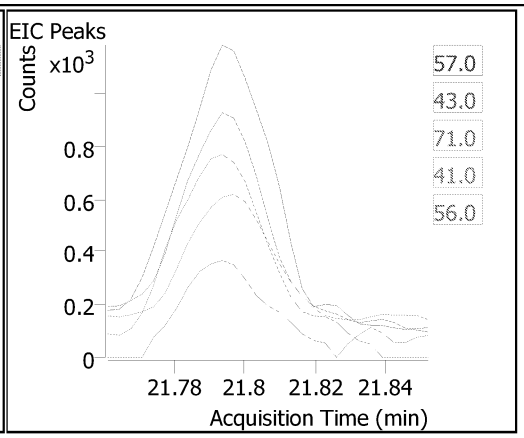
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7938 | Octane, 2,3,7-trimethyl- | 10703.6 | 86.5 | 62016-34-6 | C11H24 | 0.02233 |

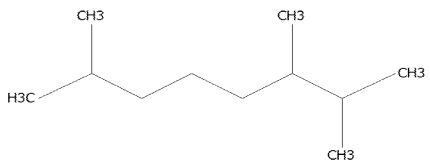


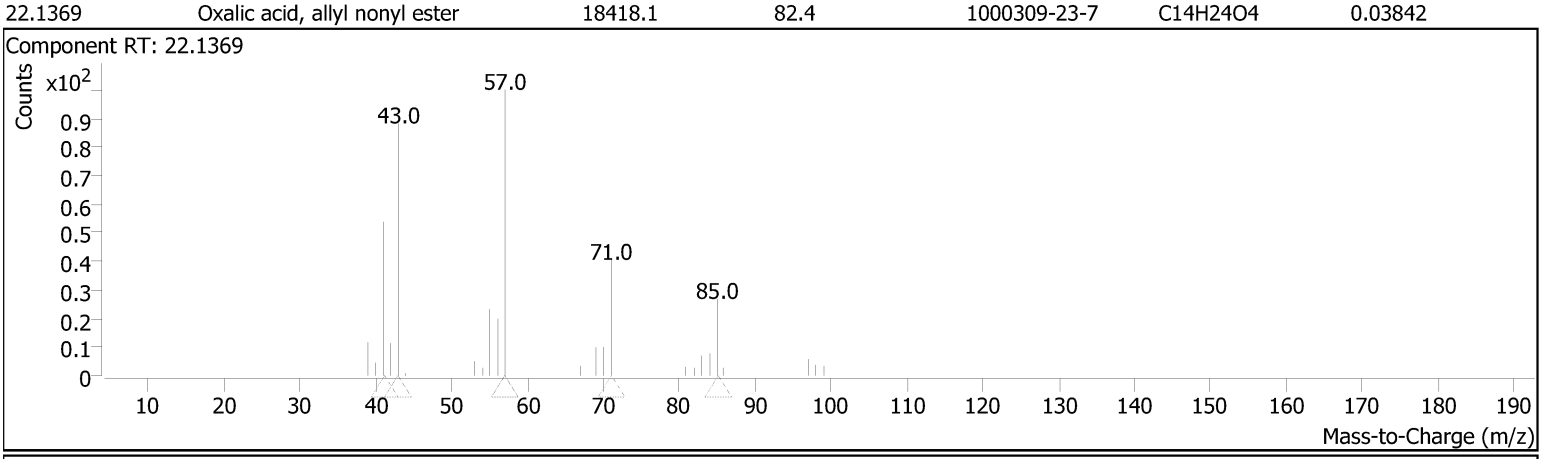



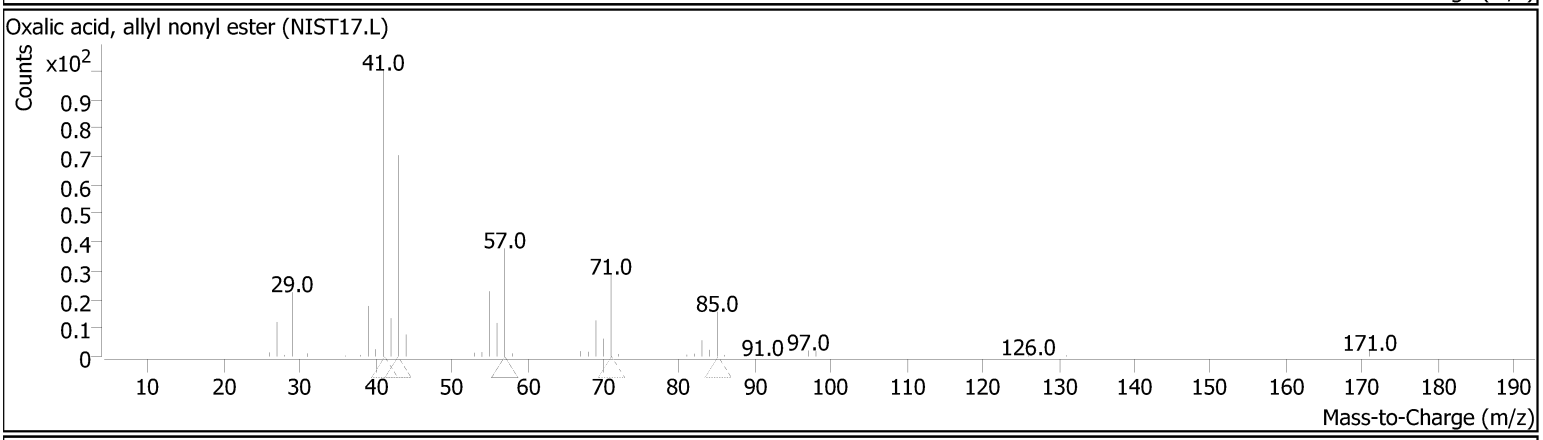



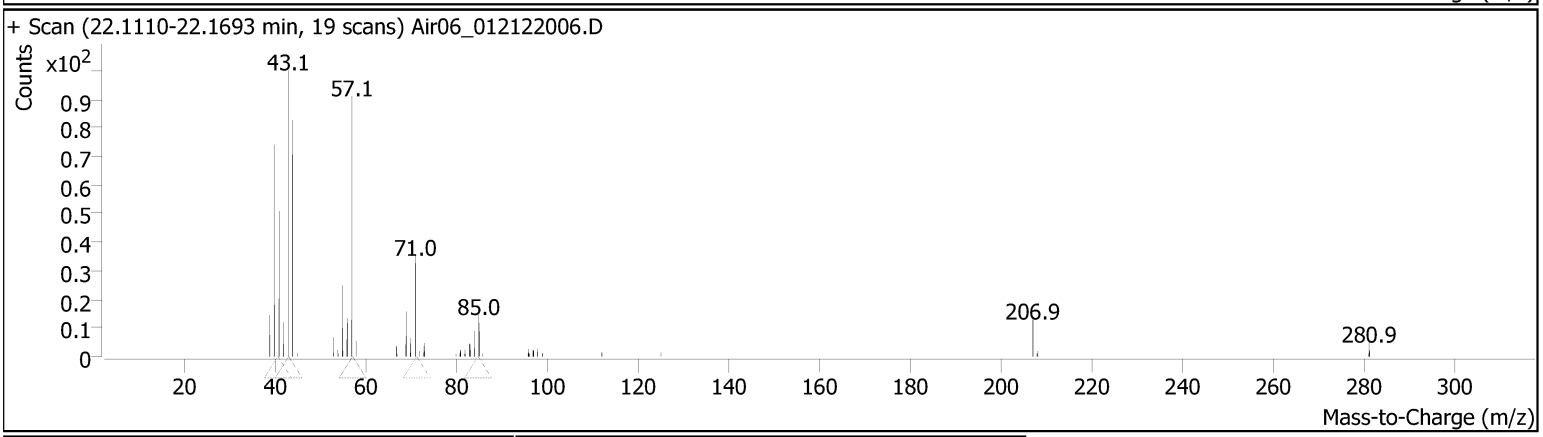



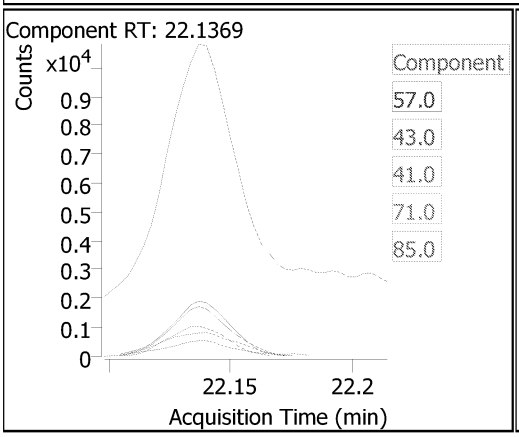



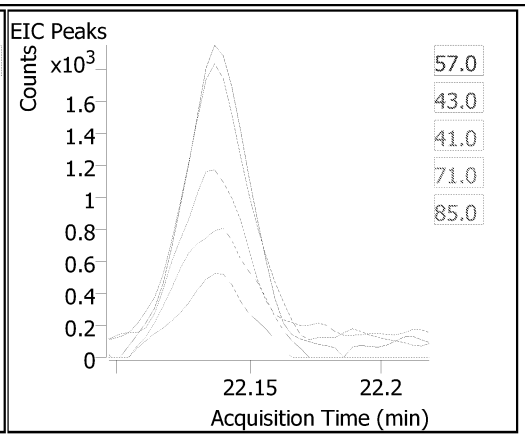
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.1369 | Oxalic acid, allyl nonyl ester | 18418.1 | 82.4 | 1000309-23-7 | C14H24O4 | 0.03842 |

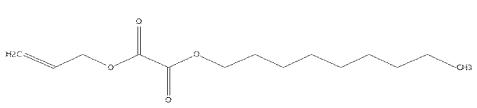


ENTHALPY BLANK USER REPORT FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-06 Lab ID : QC967924 C70289
Seqnum : 372032312006.1 Matrix : Air
File : air06_012222006 Batch : 282327 Time : 22-JAN-2022 15:12
Cal : 372007975001 Caldate : 05-JAN-2022
IDF : 1.0 Raw Units : nL/L Units : nL/L
PDF : 1.0

| Analyte | Raw | Result | RL | Flags |
|---|---|---|---|---|
| Freon 12 | 0 | ND | 0.20 | u |
| Freon 114 | 0 | ND | 0.20 | u |
| Chloromethane | 0.0005383 | ND | 0.20 | u |
| Vinyl Chloride | 0.001102 | ND | 0.20 | u |
| Bromomethane | 0 | ND | 0.20 | u |
| Chloroethane | 0 | ND | 0.20 | u |
| Trichlorofluoromethane | 0 | ND | 0.20 | u |
| 1,1-Dichloroethene | 0 | ND | 0.20 | u |
| Freon 113 | 0 | ND | 0.20 | u |
| Acetone | 0.1041 | ND | 1.0 | u |
| Carbon Disulfide | 0.06330 | ND | 0.20 | u |
| Isopropanol (IPA) | 0.02946 | ND | 1.0 | u |
| Methylene Chloride | 0.1232 | ND | 0.20 | u |
| trans-1,2-Dichloroethene | 0.0005004 | ND | 0.20 | u |
| MTBE | 0.001618 | ND | 0.20 | u |
| n-Hexane | 0.02630 | ND | 0.20 | calc u |
| 1,1-Dichloroethane | 0 | ND | 0.20 | u |
| Vinyl Acetate | 0.006284 | ND | 1.0 | u |
| cis-1,2-Dichloroethene | 0.0007954 | ND | 0.20 | u |
| 2-Butanone | 0.01310 | ND | 1.0 | u |
| Chloroform | 0.001606 | ND | 0.20 | u |
| 1,1,1-Trichloroethane | 0 | ND | 0.20 | u |
| Carbon Tetrachloride | 0 | ND | 0.20 | u |
| Benzene | 0.009230 | ND | 0.20 | u |
| 1,2-Dichloroethane | 0.002013 | ND | 0.20 | u |
| Trichloroethene | 0.01952 | ND | 0.20 | u |
| 1,2-Dichloropropane | 0.04764 | ND | 0.20 | u |
| Bromodichloromethane | 0.0001983 | ND | 0.20 | u |
| cis-1,3-Dichloropropene | 0 | ND | 0.20 | u |
| 4-Methyl-2-Pentanone | 0.004371 | ND | 0.20 | u |
| Toluene | 0.009034 | ND | 0.20 | u |
| trans-1,3-Dichloropropene | 0 | ND | 0.20 | u |
| 1,1,2-Trichloroethane | 0 | ND | 0.20 | u |
| Tetrachloroethene | 0.002002 | ND | 0.20 | u |
| 2-Hexanone | 0.004524 | ND | 0.50 | u |
| Dibromochloromethane | 0.0008699 | ND | 0.20 | u |
| 1,2-Dibromoethane | 0.003447 | ND | 0.20 | u |
| Chlorobenzene | 0.003188 | ND | 0.20 | u |
| Ethylbenzene | 0.001874 | ND | 0.20 | u |
| m,p-Xylenes | 0.004747 | ND | 0.40 | u |
| o-Xylene | 0.002989 | ND | 0.20 | u |
| Styrene | 0.003533 | ND | 0.20 | u |
| Bromoform | 0.0009672 | ND | 0.20 | u |
| 1,1,2,2-Tetrachloroethane | 0.002217 | ND | 0.20 | u |
| 1,1,1,2-Tetrachloroethane | 0.002076 | ND | 0.20 | u |
| 4-Ethyltoluene | 0.002274 | ND | 0.20 | u |
| 1,3,5-Trimethylbenzene | 0.002448 | ND | 0.20 | u |

| Analyte | Raw | Result | RL | Flags |
|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.003500 | ND | 0.20 | u |
| 1,3-Dichlorobenzene | 0.007225 | ND | 0.20 | u |
| 1,4-Dichlorobenzene | 0.007263 | ND | 0.20 | u |
| Benzyl chloride | 0.004922 | ND | 0.20 | u |
| 1,2-Dichlorobenzene | 0.006211 | ND | 0.20 | u |
| 1,2,4-Trichlorobenzene | 0.01304 | ND | 0.20 | u |
| Hexachlorobutadiene | 0.004032 | ND | 0.20 | u |

No TICs found.

| Surrogate | Raw | Spiked | Result | %Rec | Limits | Flags |
|---|---|---|---|---|---|---|
| Bromofluorobenzene | 10.34 | 10.00 | 10.34 | 103 | 60-140 | u |

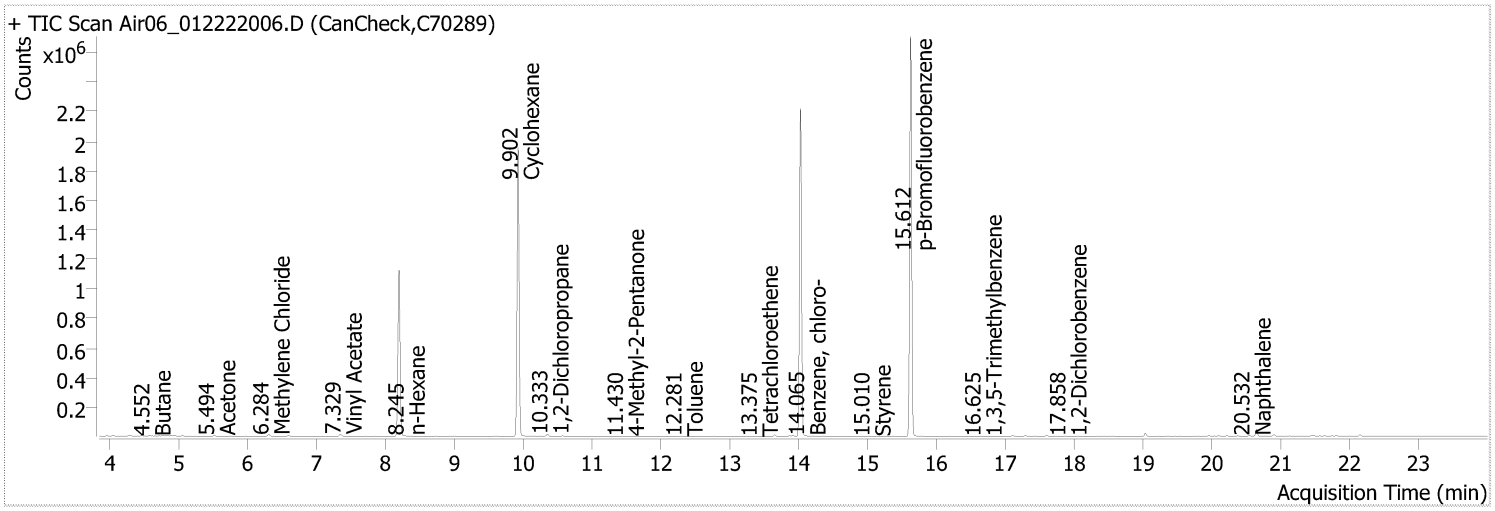
| ISTD (ICAL air06_010522009) | ICAL Area | BLANK Area | %Drift | ICAL RT | BLANK RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 377726 | -8.14 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1546993 | -0.30 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 769240 | -9.21 | 14.01 | 14.01 | 0.00 |

Analyst: DJL Date: 01/26/22 Reviewer: LW Date: 01/27/22

calc=check quantitation u=use

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012222006.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/22/2022 3:12:58 PM |
| Sample Name | CanCheck,C70289 | Instrument | Air-MS-06 |
| Vial | 6 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x400mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 22 1248 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |




| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 377726 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1546993 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 769240 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1046310 | 10.3436 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 103.44% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.937 | 41.0 | 673 | 0.0181 | nL/L | # | 72 |
| T Freon 12 | 0.000 | | 0 | N.D. | | | |
| T Chloromethane | 4.138 | 50.0 | 25 | 0.0005 | nL/L | # | 24 |
| T Freon 114 | 0.000 | | 0 | N.D. | | | |
| T Vinyl Chloride | 4.355 | 62.0 | 51 | 0.0011 | nL/L | | 51 |
| T 1,3-Butadiene | 4.497 | 54.0 | 21 | 0.0005 | nL/L | | 49 |
| T Butane | 4.552 | 43.0 | 916 | 0.0119 | nL/L | # | 86 |
| T Bromomethane | 0.000 | | 0 | N.D. | | | |
| T Chloroethane | 0.000 | | 0 | N.D. | | | |
| T Ethanol | 5.031 | 45.0 | 4627 | 0.2031 | nL/L | # | 93 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 5.348 | 56.0 | 324 | 0.0161 | nL/L | # | 85 |
| T Acetone | 5.494 | 58.0 | 2471 | 0.1041 | nL/L | # | 93 |
| T Trichloromonofluoromethane | 0.000 | | 0 | N.D. | | | |
| T Isopropanol (IPA) | 5.733 | 45.0 | 2504 | 0.0295 | nL/L | # | 86 |
| T n-Pentane | 5.947 | 43.0 | 859 | 0.0090 | nL/L | # | 84 |
| T 1,1-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Tert-butyl alcohol (TBA) | 6.306 | 59.0 | 1274 | 0.0130 | nL/L | # | 47 |
| T Methylene Chloride | 6.284 | 84.0 | 5149 | 0.1232 | nL/L | | 99 |
| T 3-Chloropropene | 6.575 | 76.0 | 7646 | 0.3969 | nL/L | # | 60 |
| T Freon 113 | 0.000 | | 0 | N.D. | | | |
| T Carbon Disulfide | 6.575 | 76.0 | 7646 | 0.0633 | nL/L | # | 92 |

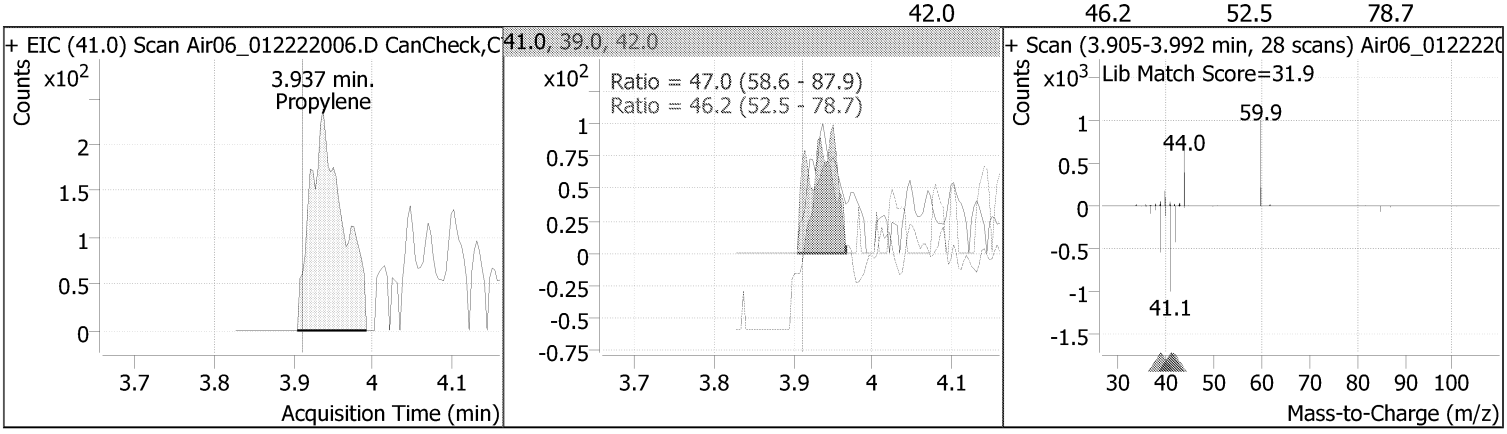
| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 36 | 0.0005 | nL/L | | 35 |
| T 1,1-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T MTBE | 7.329 | 73.0 | 190 | 0.0016 | nL/L | | 72 |
| T Vinyl Acetate | 7.329 | 43.0 | 937 | 0.0063 | nL/L | # | 66 |
| T 2-Butanone | 7.695 | 43.0 | 1505 | 0.0131 | nL/L | | 90 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 58 | 0.0008 | nL/L | | 33 |
| T Ethyl Acetate | 8.038 | 61.0 | 58 | 0.0032 | nL/L | | 1 |
| T n-Hexane | 8.245 | 57.0 | 2178 | 0.0263 | nL/L | | 93 |
| T Chloroform | 8.294 | 83.0 | 150 | 0.0016 | nL/L | | 26 |
| T Tetrahydrofuran | 8.708 | 72.0 | 273 | 0.0133 | nL/L | # | 59 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 138 | 0.0020 | nL/L | | 46 |
| T 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Benzene | 9.608 | 78.0 | 1242 | 0.0092 | nL/L | # | 94 |
| T Carbon Tetrachloride | 0.000 | | 0 | N.D. | | | |
| T Cyclohexane | 9.902 | 84.0 | 1619 | 0.0288 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 10.333 | 63.0 | 3019 | 0.0476 | nL/L | # | 39 |
| T Methane, bromodichloro- | 10.427 | 83.0 | 21 | 0.0002 | nL/L | | 32 |
| T 1,4-Dioxane | 10.621 | 88.0 | 231 | 0.0070 | nL/L | # | 70 |
| T Trichloroethene | 10.556 | 132.0 | 1258 | 0.0195 | nL/L | | 95 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 314 | 0.0011 | nL/L | # | 57 |
| T Methyl methacrylate | 10.737 | 69.0 | 40 | 0.0007 | nL/L | # | 1 |
| T n-Heptane | 0.000 | | 0 | N.D. | | | |
| T cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 4-Methyl-2-Pentanone | 11.430 | 58.0 | 243 | 0.0044 | nL/L | # | 52 |
| T trans-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 1,1,2-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Toluene | 12.281 | 91.0 | 1657 | 0.0090 | nL/L | # | 41 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 1045472 | 0.0844 | nL/L | | 100 |
| T 2-Hexanone | 12.560 | 58.0 | 323 | 0.0045 | nL/L | # | 62 |
| T Dibromochloromethane | 12.663 | 129.0 | 95 | 0.0009 | nL/L | # | 65 |
| T 1,2-Dibromoethane | 12.912 | 108.9 | 320 | 0.0034 | nL/L | | 89 |
| T Tetrachloroethene | 13.375 | 166.0 | 190 | 0.0020 | nL/L | # | 51 |
| T 1,1,1,2-Tetrachloroethane | 13.845 | 131.0 | 138 | 0.0021 | nL/L | # | 1 |
| T Benzene, chloro- | 14.065 | 112.0 | 420 | 0.0032 | nL/L | # | 36 |
| T Ethylbenzene | 14.447 | 91.0 | 392 | 0.0019 | nL/L | # | 68 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 685083 | 0.0757 | nL/L | | 100 |
| T m,p-Xylenes | 14.618 | 91.0 | 799 | 0.0047 | nL/L | # | 83 |
| T Bromoform | 14.702 | 173.0 | 112 | 0.0010 | nL/L | | 38 |
| T Styrene | 15.010 | 104.0 | 471 | 0.0035 | nL/L | # | 88 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 282 | 0.0022 | nL/L | # | 48 |
| T o-Xylene | 15.123 | 91.0 | 517 | 0.0030 | nL/L | # | 84 |
| T n-Nonane | 15.356 | 85.0 | 114 | 0.0029 | nL/L | # | 80 |
| T Isopropylbenzene | 15.767 | 105.0 | 285 | 0.0012 | nL/L | | 58 |
| T 2-Chlorotoluene | 0.000 | | 0 | N.D. | | | |
| T n-Propylbenzene | 16.360 | 120.0 | 112 | 0.0017 | nL/L | # | 68 |
| T 4-Ethyltoluene | 16.531 | 105.1 | 534 | 0.0023 | nL/L | # | 68 |
| T 1,3,5-Trimethylbenzene | 16.625 | 105.0 | 497 | 0.0024 | nL/L | # | 80 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 707 | 0.0035 | nL/L | # | 91 |
| T Benzyl chloride | 17.298 | 91.0 | 873 | 0.0049 | nL/L | # | 94 |
| T 1,3-Dichlorobenzene | 17.321 | 146.0 | 1000 | 0.0072 | nL/L | # | 88 |
| T 1,4-Dichlorobenzene | 17.415 | 146.0 | 1017 | 0.0073 | nL/L | # | 86 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 839 | 0.0062 | nL/L | | 90 |
| T 1,2,4-Trichlorobenzene | 20.360 | 179.9 | 1451 | 0.0130 | nL/L | | 91 |
| T Naphthalene | 20.532 | 128.0 | 4755 | 0.0206 | nL/L | | 98 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.111 | 225.0 | 482 | 0.0040 | nL/L | # | 71 |

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

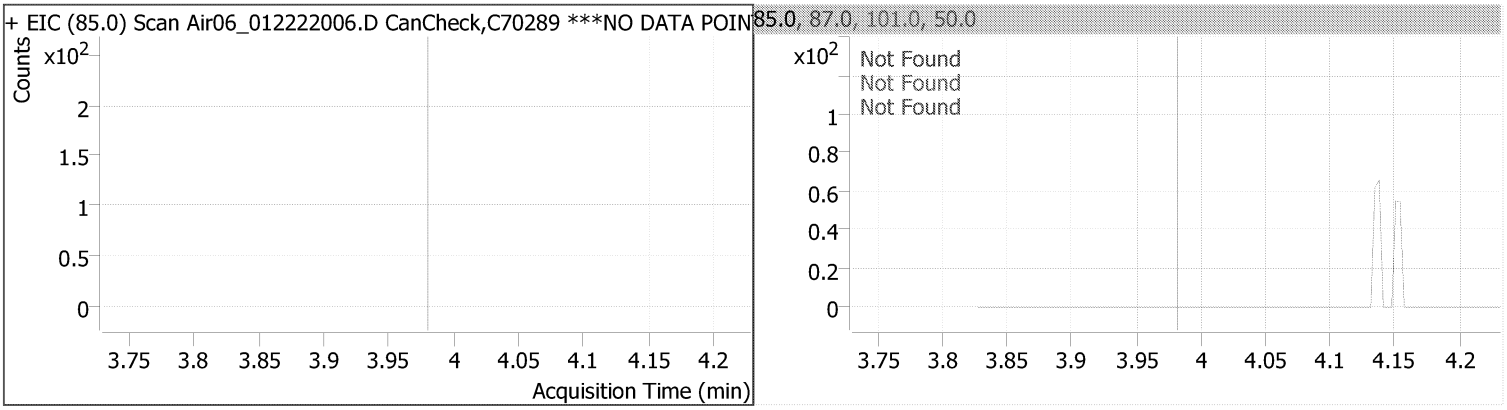
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

# Quantitation Results Report (Not Reviewed)

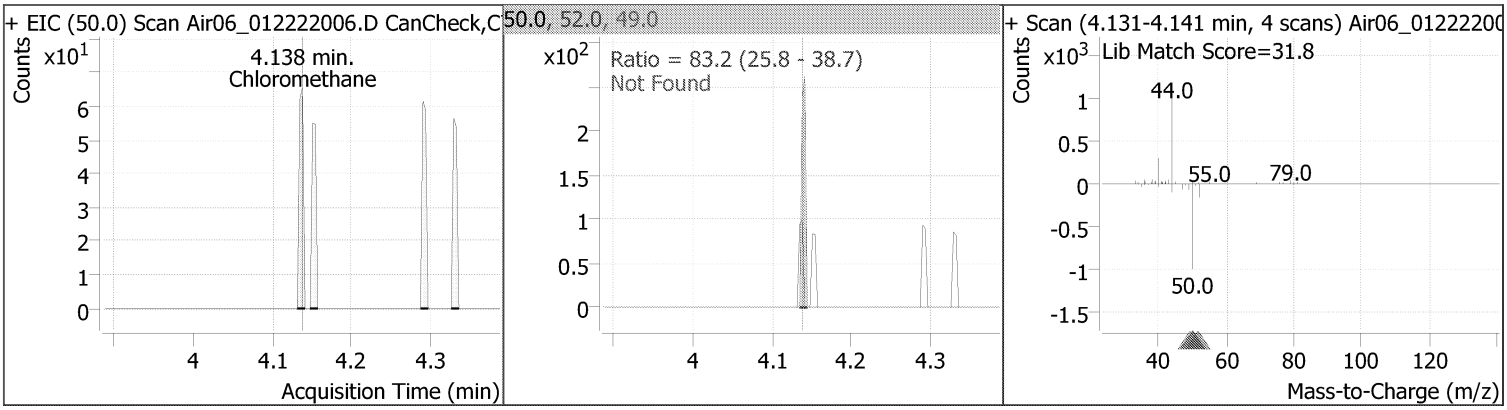
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.0181 | 3.94 | 0.03 | 673 | 39.0 | 47.0 | 58.6 | 87.9 |
| | | | | | 42.0 | 46.2 | 52.5 | 78.7 |



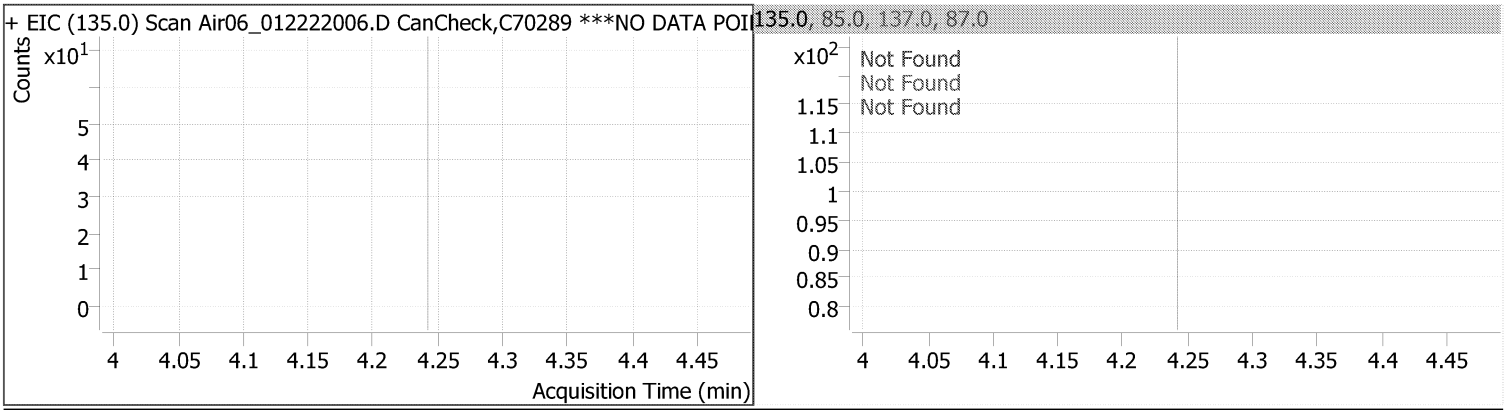

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | N.D. | 3.98 | 87.0 | 32.5 | 50.0 | 14.0 | 101.0 | 9.4 |



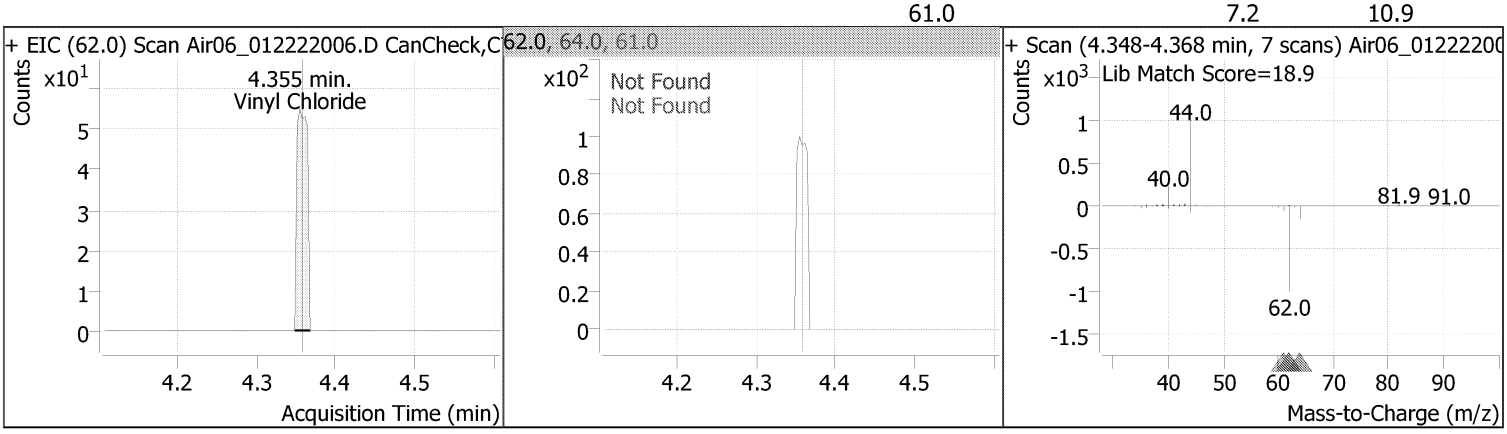

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0005 | 4.14 | 0.00 | 25 | 52.0 | 83.2 | 25.8 | 38.7 |
| | | | | | 49.0 | | 8.3 | 12.5 |



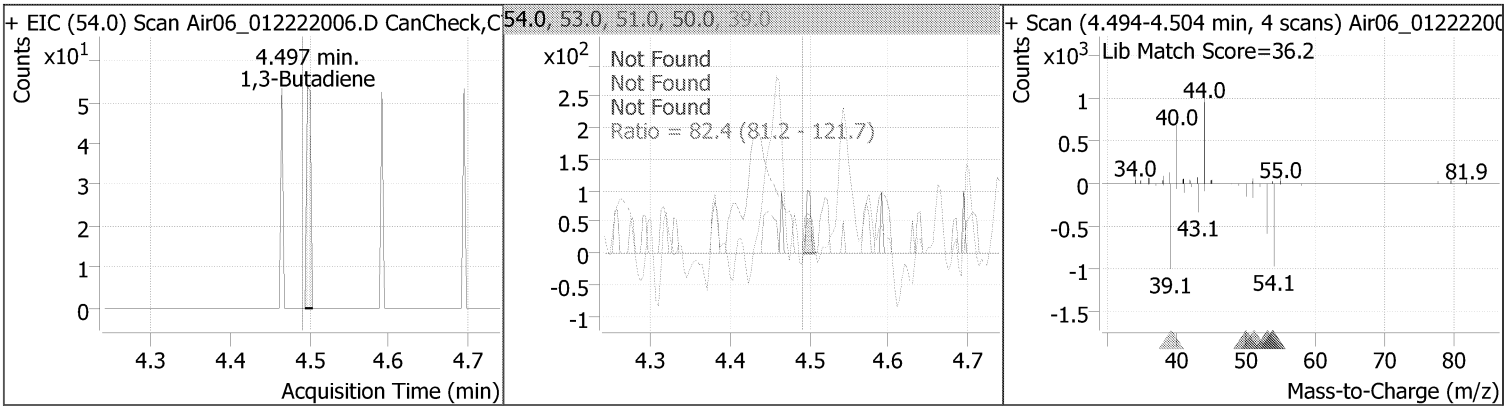

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | N.D. | 4.24 | 85.0 | 155.2 | 87.0 | 49.7 | 137.0 | 32.4 |



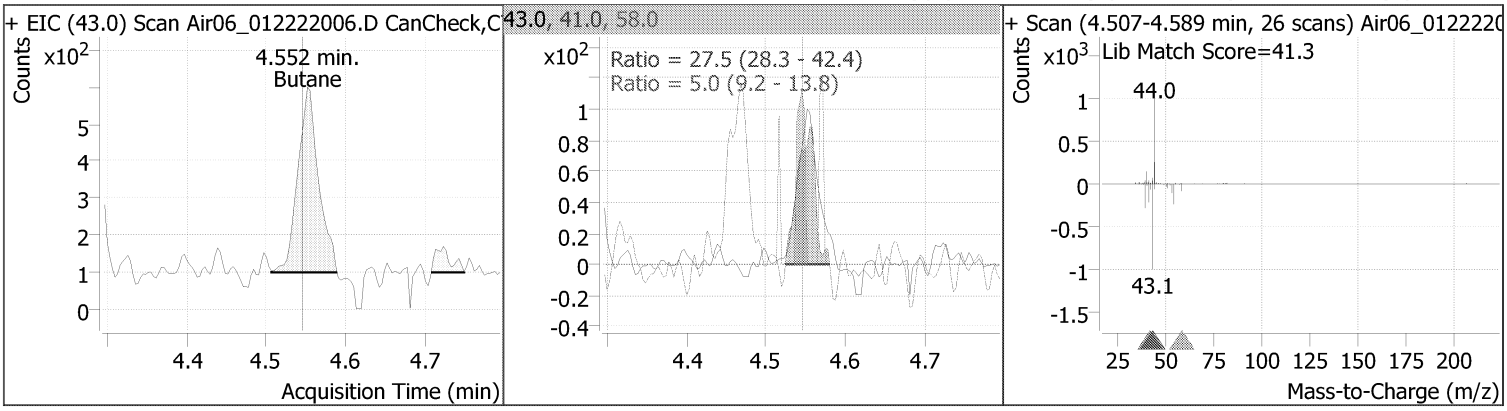
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.0011 | 4.35 | 0.00 | 51 | 64.0 | | 24.5 | 36.7 |
| | | | | | 61.0 | | 7.2 | 10.9 |



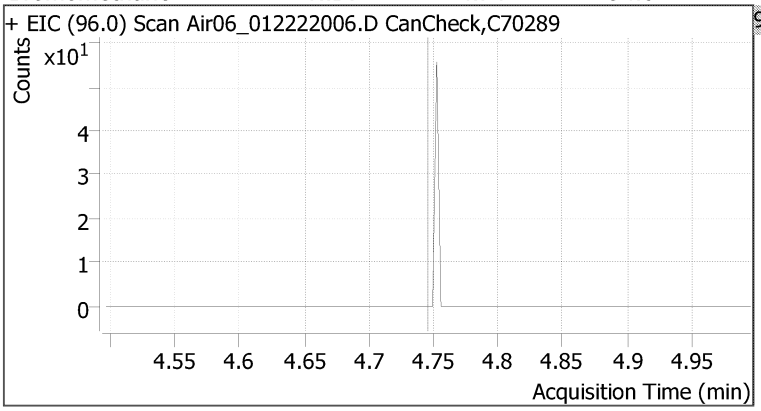

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0005 | 4.50 | 0.01 | 21 | 39.0 | 82.4 | 81.2 | 121.7 |
| | | | | | 53.0 | | 59.5 | 89.3 |
| | | | | | 50.0 | | 27.7 | 41.6 |
| | | | | | 51.0 | | 25.0 | 37.6 |

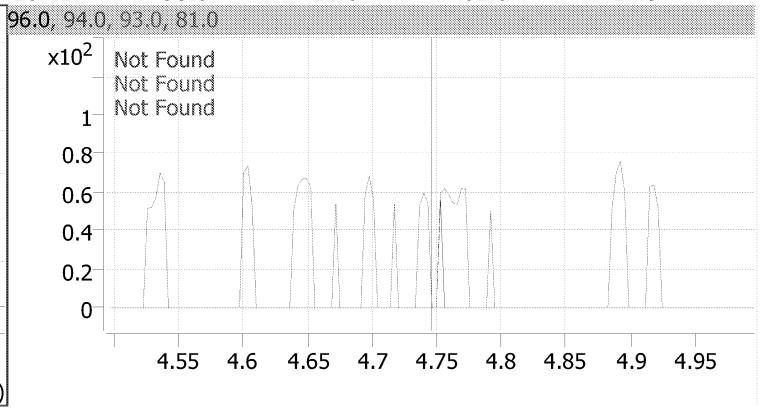



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0119 | 4.55 | 0.01 | 916 | 41.0 | 27.5 | 28.3 | 42.4 |
| | | | | | 58.0 | 5.0 | 9.2 | 13.8 |

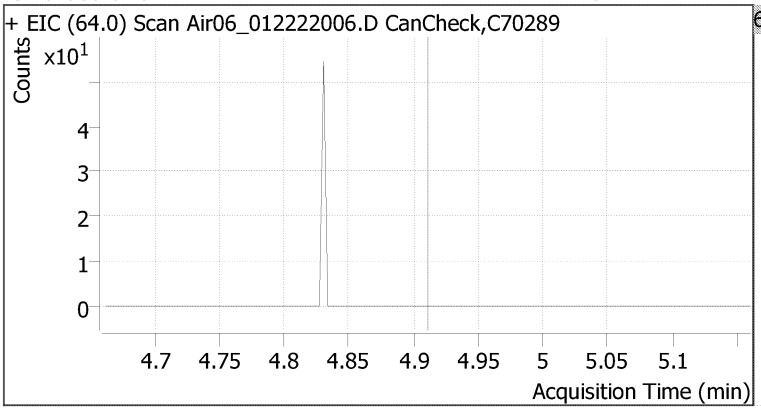


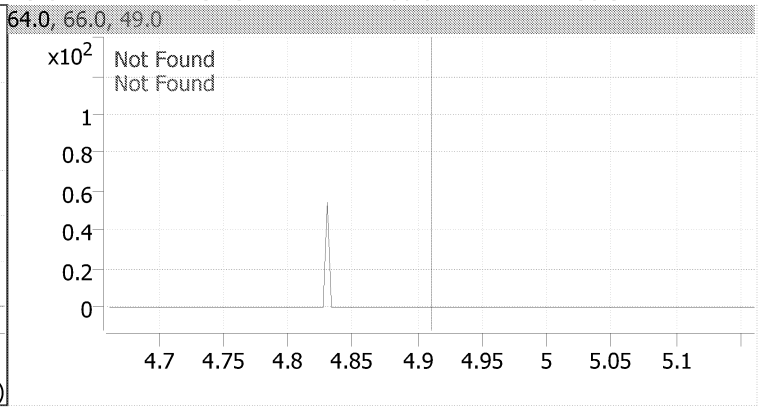
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | N.D. | 4.74 | 94.0 | 107.1 | 93.0 | 22.6 | 81.0 | 17.5 |



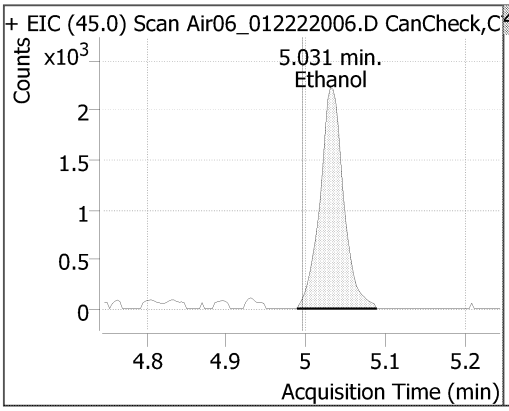



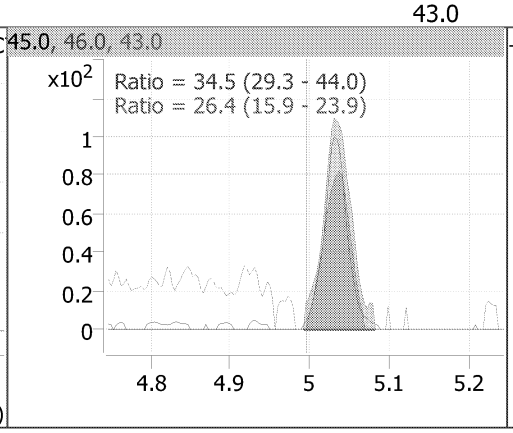

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Chloroethane | N.D. | 4.91 | 49.0 | 34.3 | 66.0 | 30.5 |

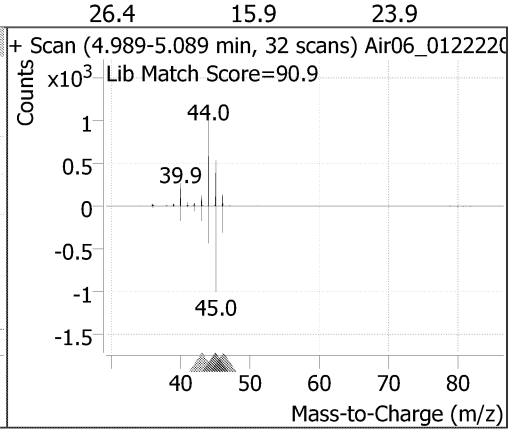


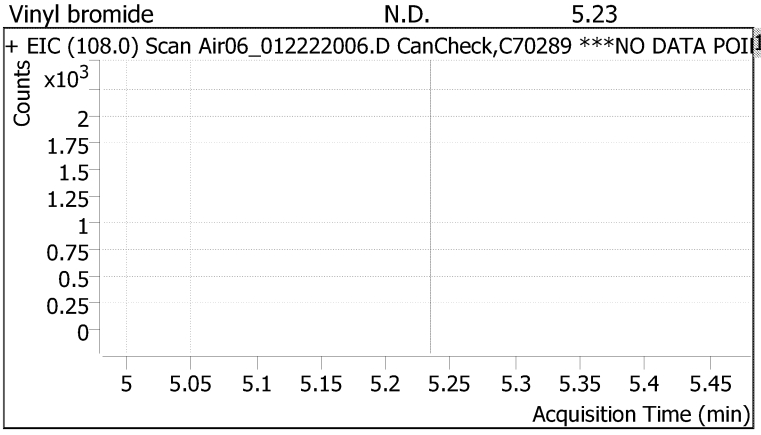

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.2031 | 5.03 | 0.04 | 4627 | 46.0 | 34.5 | 29.3 | 44.0 |
| | | | | | 43.0 | 26.4 | 15.9 | 23.9 |

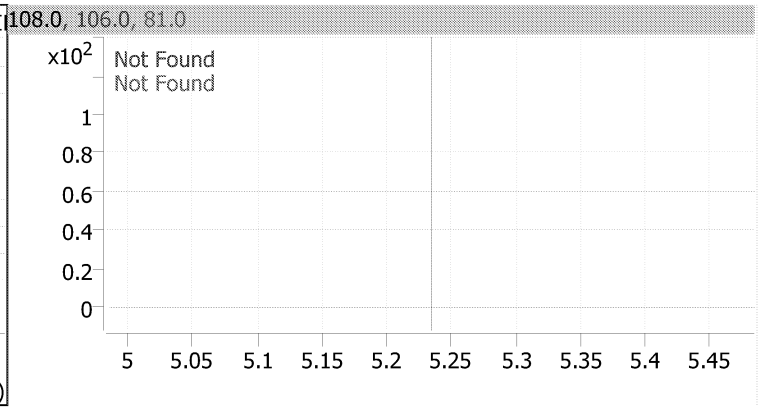


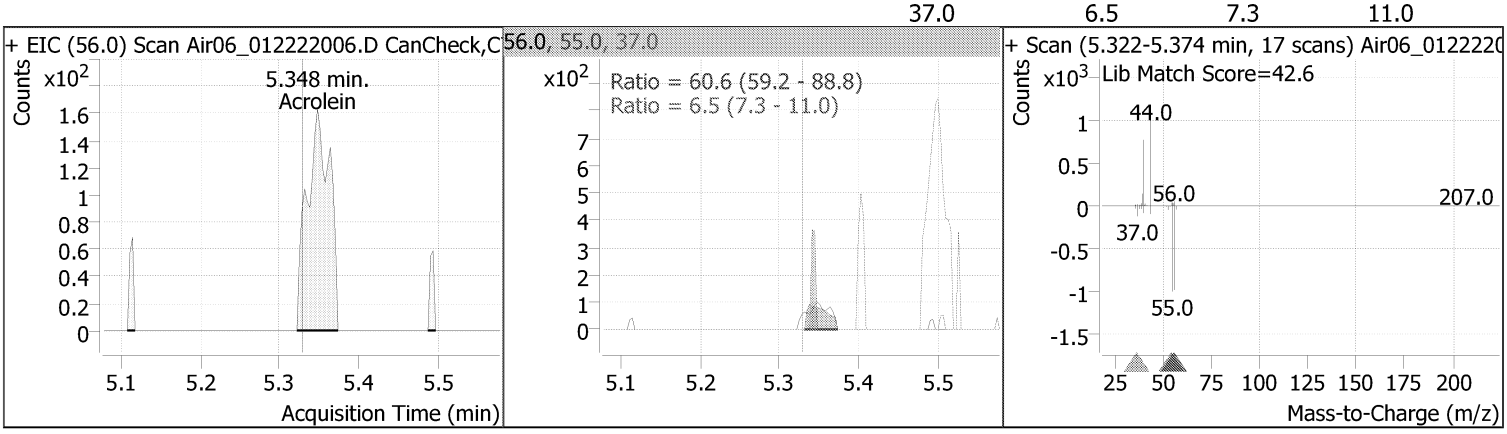




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.23 | 106.0 | 105.4 | 81.0 | 17.2 |

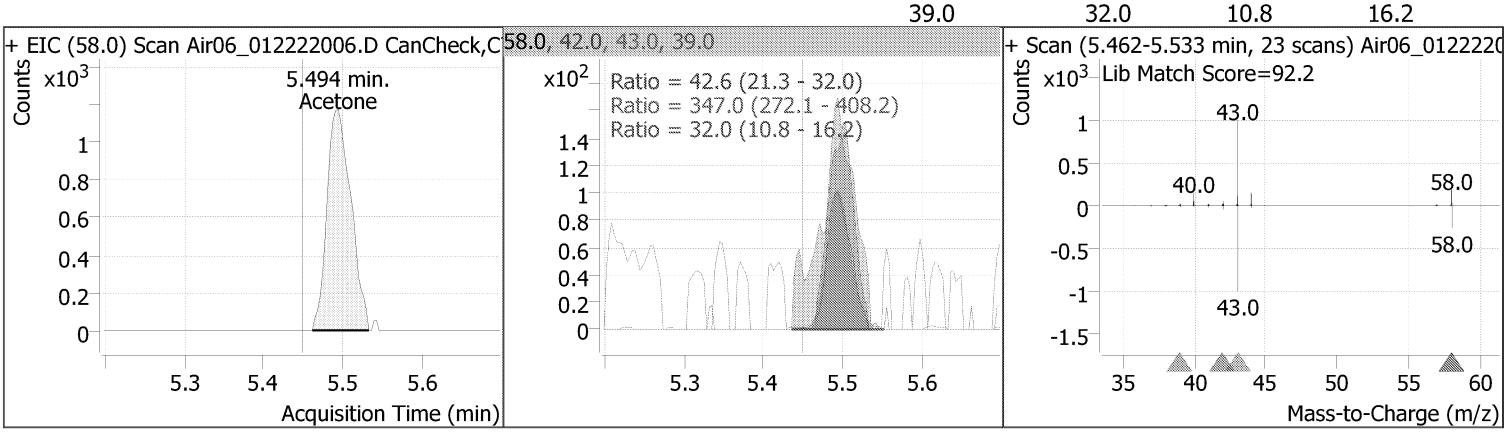


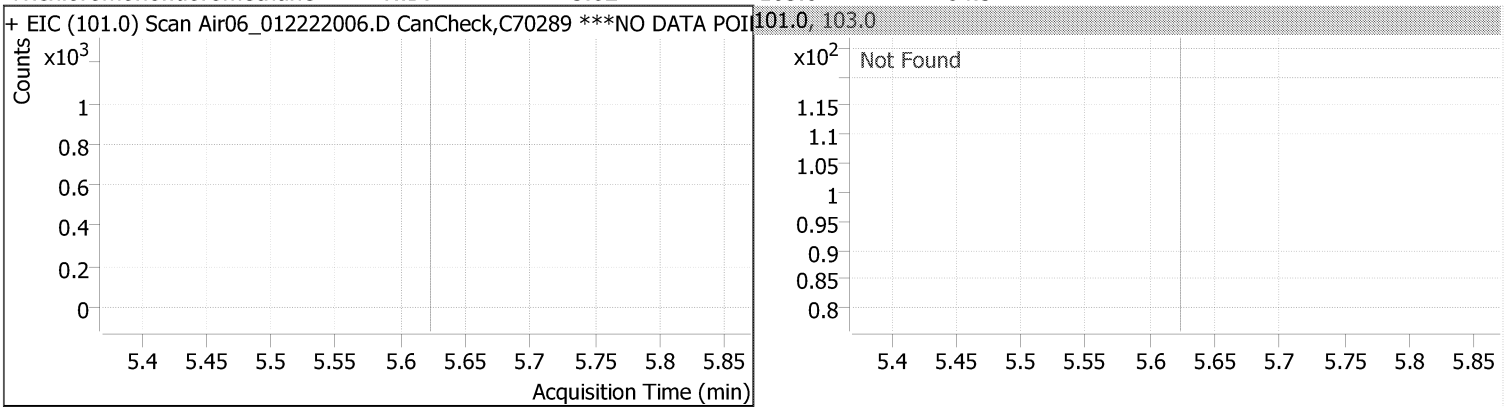
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0161 | 5.35 | 0.02 | 324 | 55.0 | 60.6 | 59.2 | 88.8 |
| | | | | | 37.0 | 6.5 | 7.3 | 11.0 |



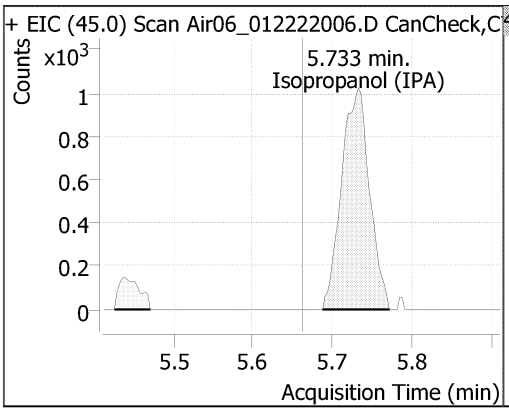

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.1041 | 5.49 | 0.05 | 2471 | 43.0 | 347.0 | 272.1 | 408.2 |
| | | | | | 42.0 | 42.6 | 21.3 | 32.0 |
| | | | | | 39.0 | 32.0 | 10.8 | 16.2 |

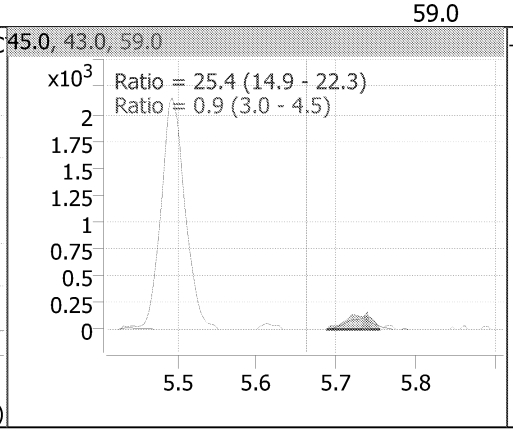


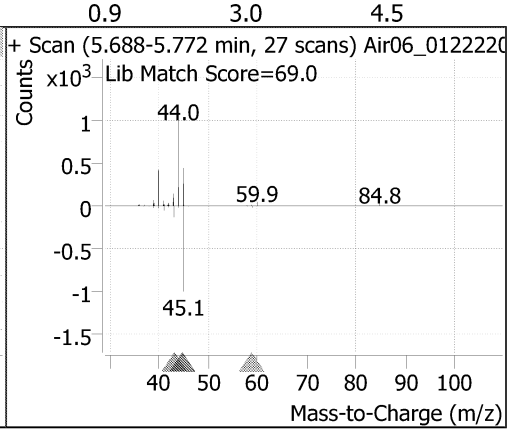

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Trichloromonofluoromethane | N.D. | 5.62 | 103.0 | 64.5 |



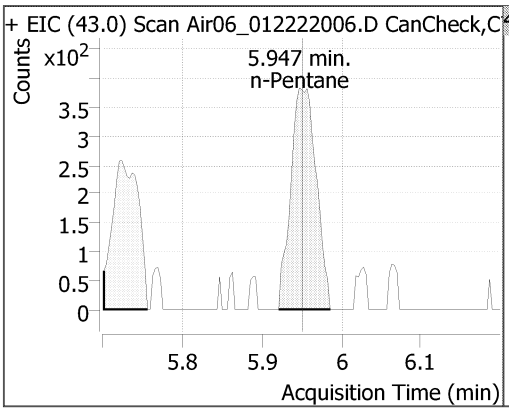
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.0295 | 5.73 | 0.07 | 2504 | 43.0 | 25.4 | 14.9 | 22.3 |
| | | | | | 59.0 | 0.9 | 3.0 | 4.5 |

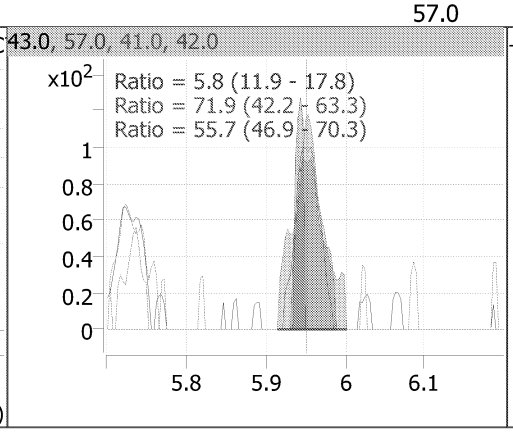


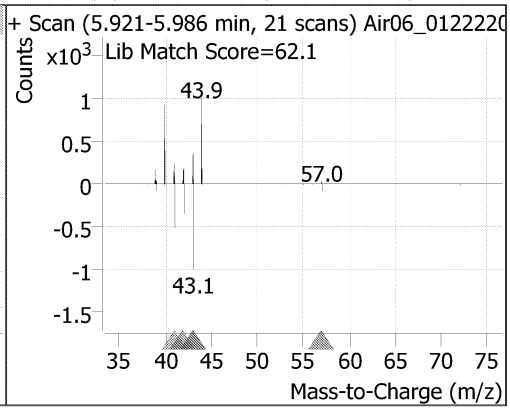



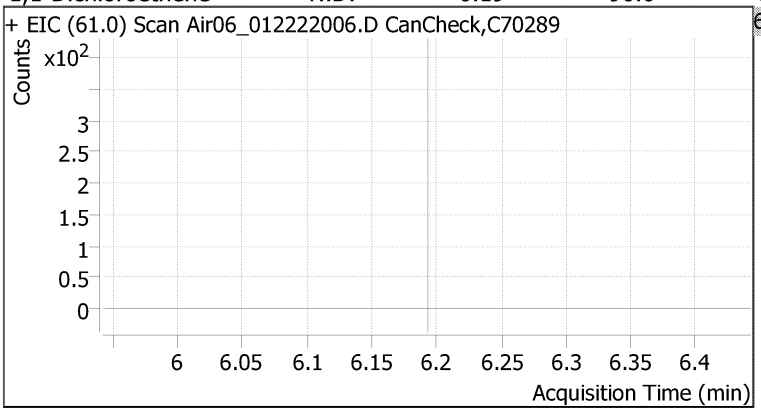

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.0090 | 5.95 | 0.00 | 859 | 42.0 | 55.7 | 46.9 | 70.3 |
| | | | | | 41.0 | 71.9 | 42.2 | 63.3 |
| | | | | | 57.0 | 5.8 | 11.9 | 17.8 |

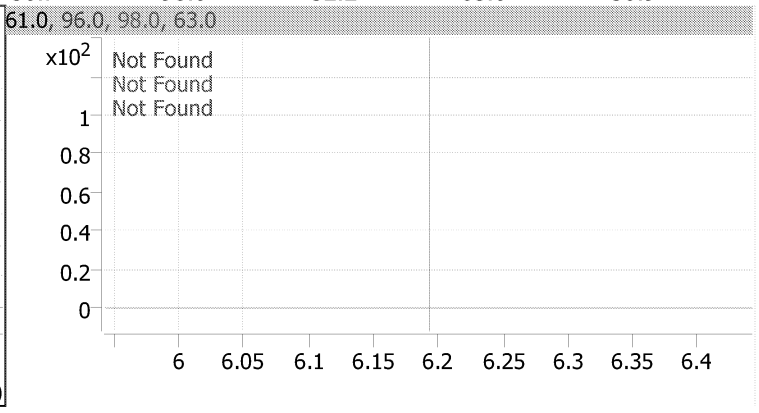


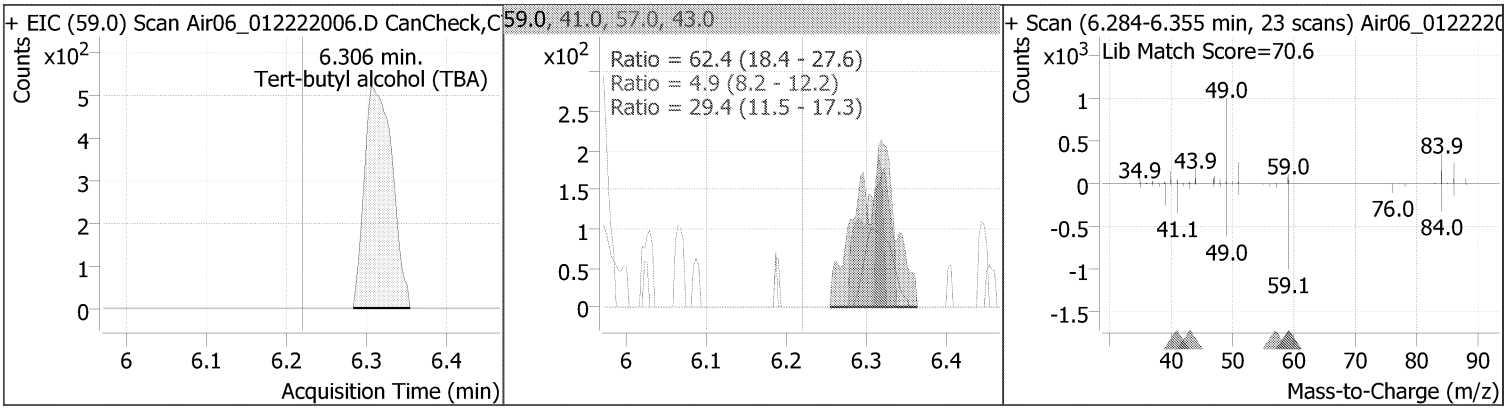




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | N.D. | 6.19 | 96.0 | 50.7 | 98.0 | 32.2 | 63.0 | 30.9 |

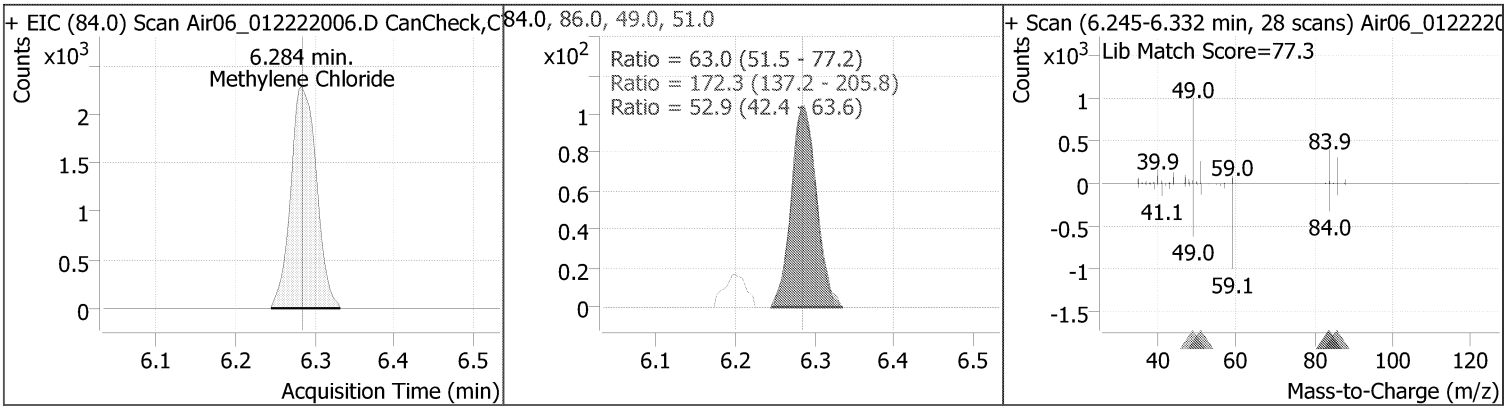


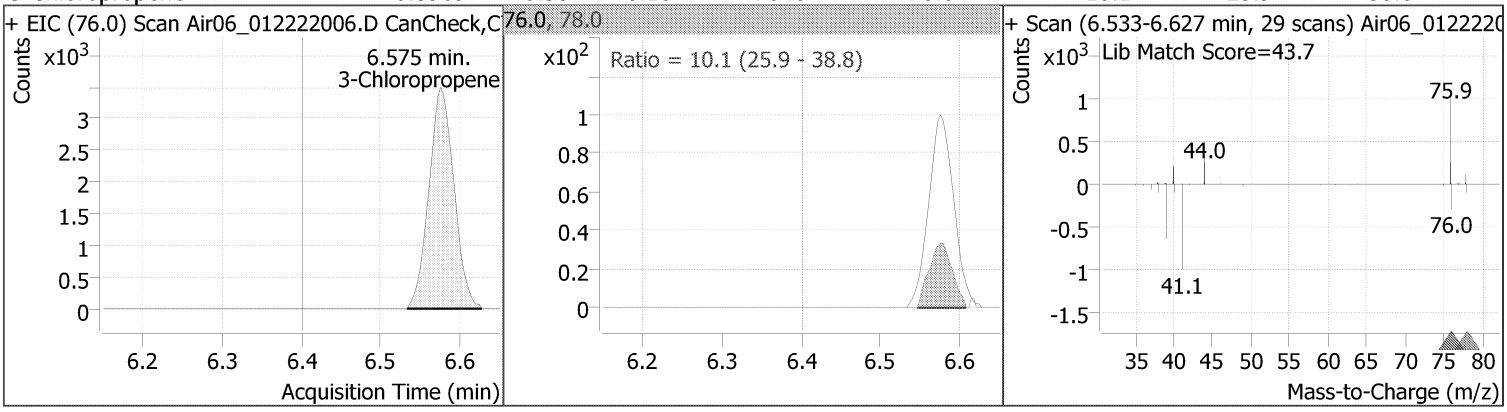
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.0130 | 6.31 | 0.09 | 1274 | 41.0 | 62.4 | 18.4 | 27.6 |
| | | | | | 43.0 | 29.4 | 11.5 | 17.3 |
| | | | | | 57.0 | 4.9 | 8.2 | 12.2 |



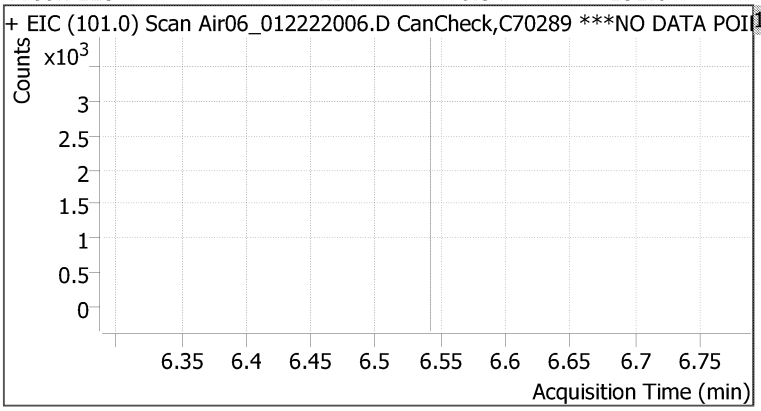

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1232 | 6.28 | 0.00 | 5149 | 49.0 | 172.3 | 137.2 | 205.8 |
| | | | | | 86.0 | 63.0 | 51.5 | 77.2 |
| | | | | | 51.0 | 52.9 | 42.4 | 63.6 |

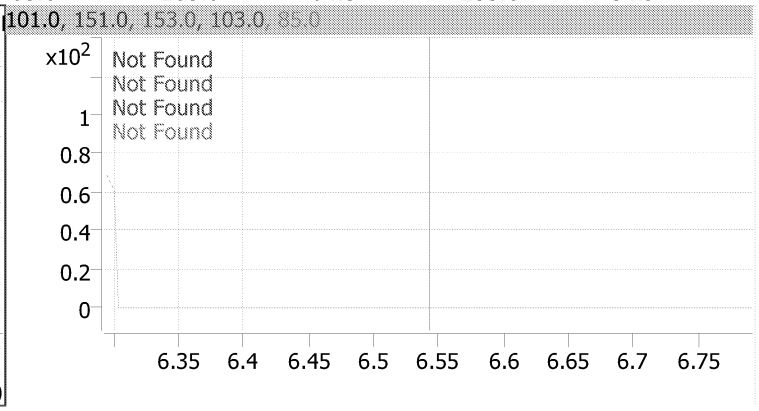



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 0.3969 | 6.58 | 0.18 | 7646 | 78.0 | 10.1 | 25.9 | 38.8 |

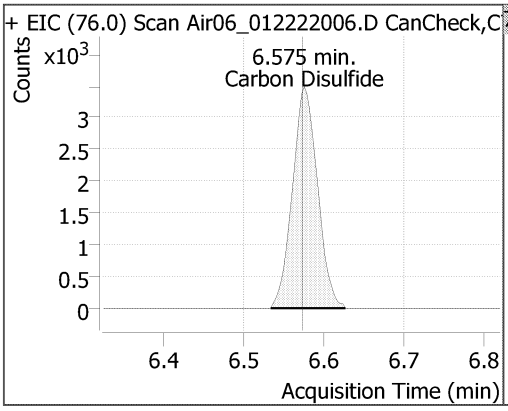


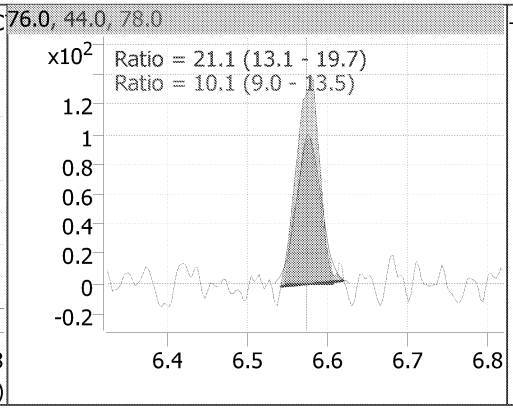
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | N.D. | 6.54 | 151.0 | 85.0 | 103.0 | 64.3 | 153.0 | 54.9 |

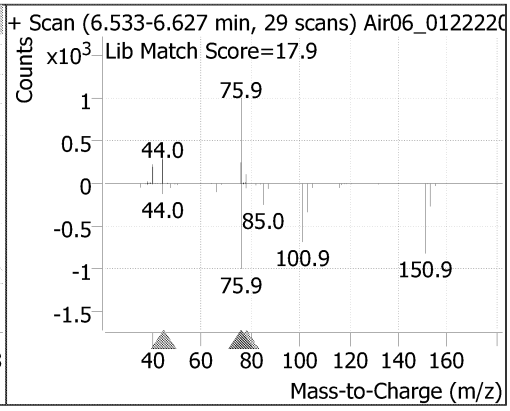


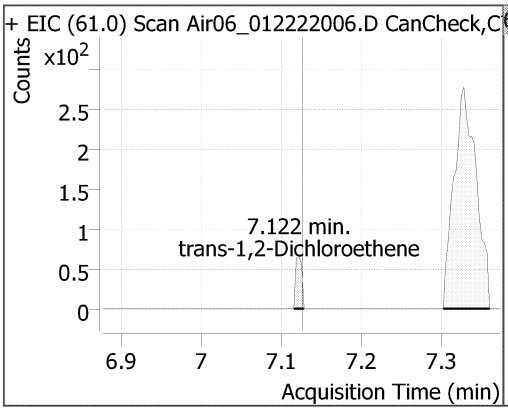

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.0633 | 6.58 | 0.01 | 7646 | 44.0 | 21.1 | 13.1 | 19.7 |
| | | | | | 78.0 | 10.1 | 9.0 | 13.5 |

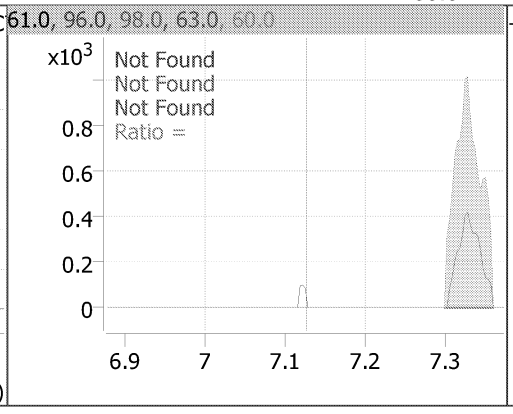


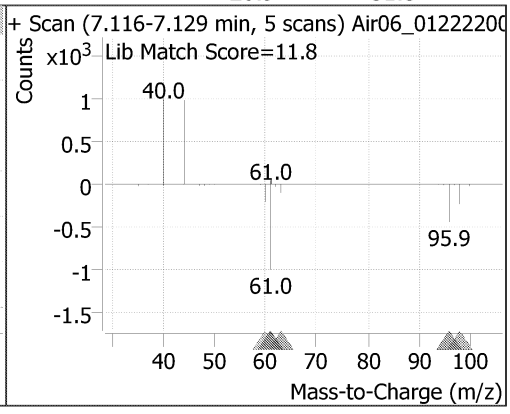



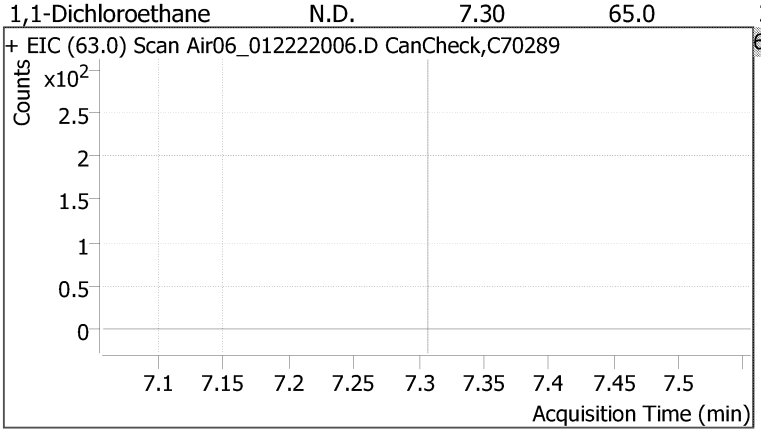

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.0005 | 7.12 | 0.00 | 36 | 96.0 | | 45.6 | 68.4 |
| | | | | | 98.0 | | 29.2 | 43.8 |
| | | | | | 63.0 | | 24.9 | 37.3 |
| | | | | | 60.0 | | 20.9 | 31.3 |

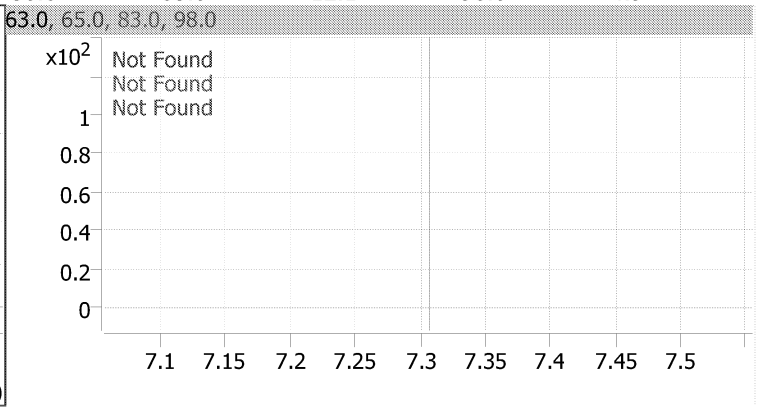


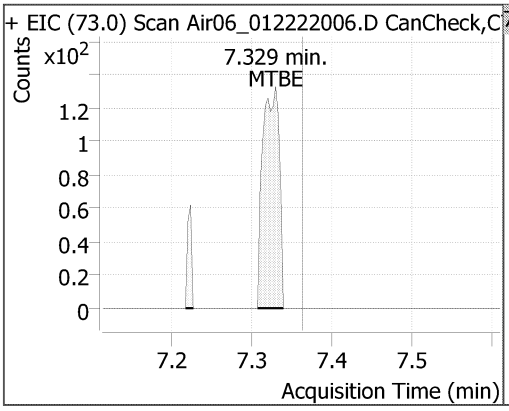



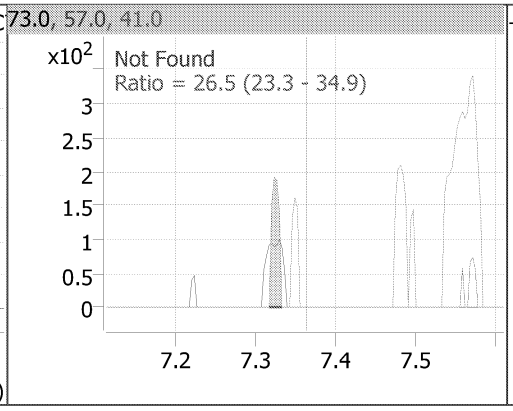
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | N.D. | 7.30 | 65.0 | 30.6 | 83.0 | 12.1 | 98.0 | 4.9 |

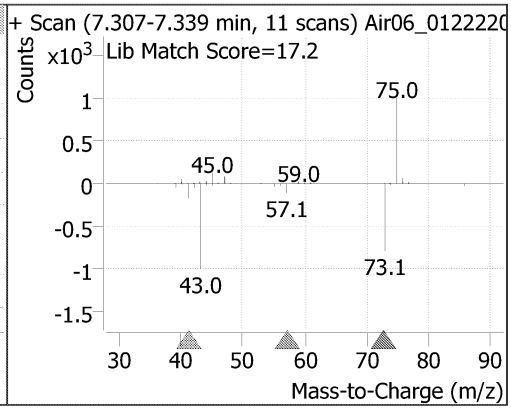


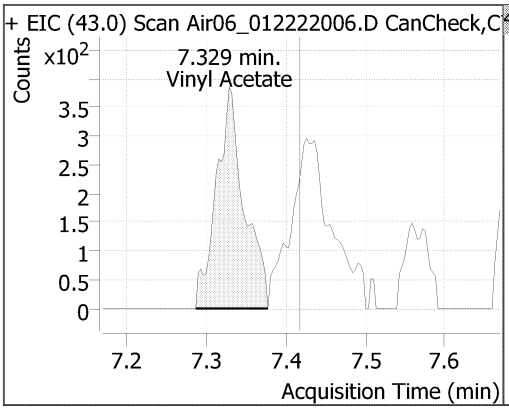

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.0016 | 7.33 | -0.03 | 190 | 41.0 | 26.5 | 23.3 | 34.9 |
| | | | | | 57.0 | | 22.1 | 33.1 |

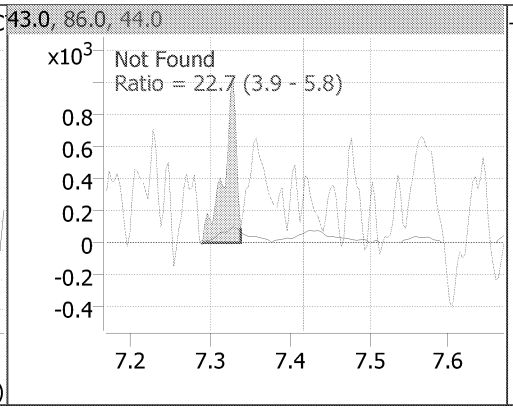


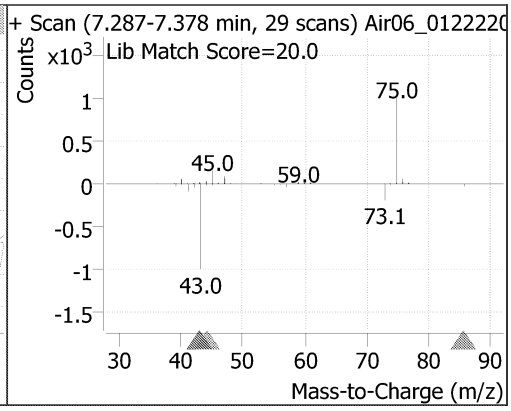



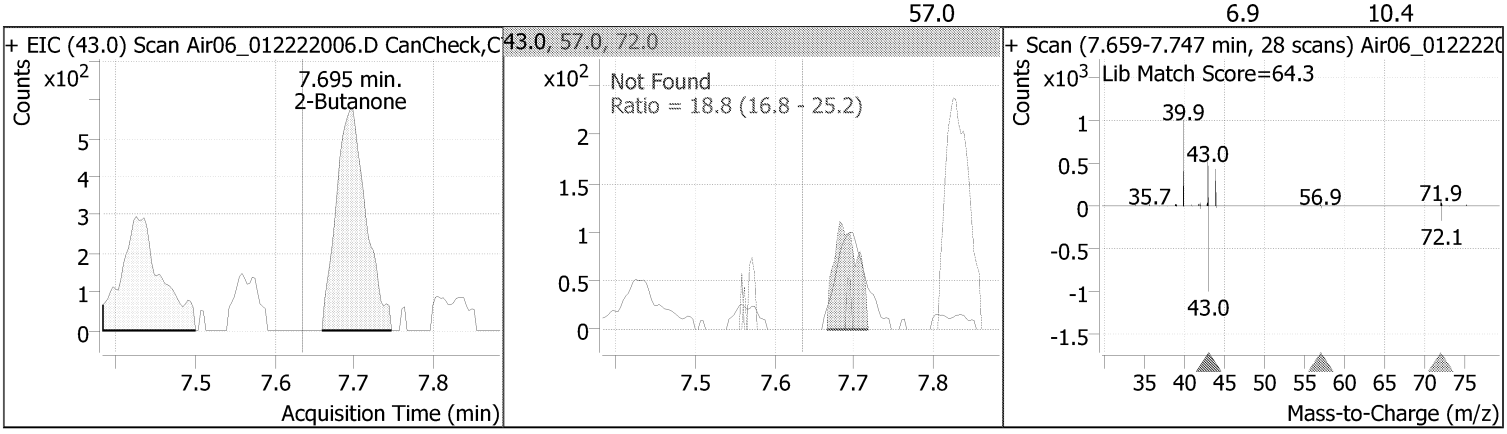

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.0063 | 7.33 | -0.09 | 937 | 86.0 | | 5.2 | 7.9 |
| | | | | | 44.0 | 22.7 | 3.9 | 5.8 |



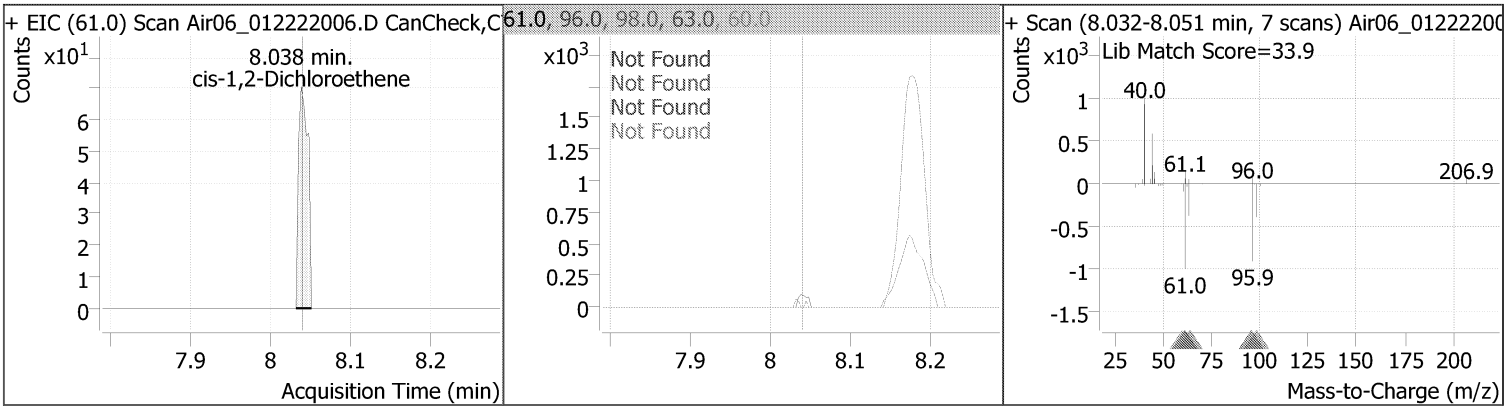



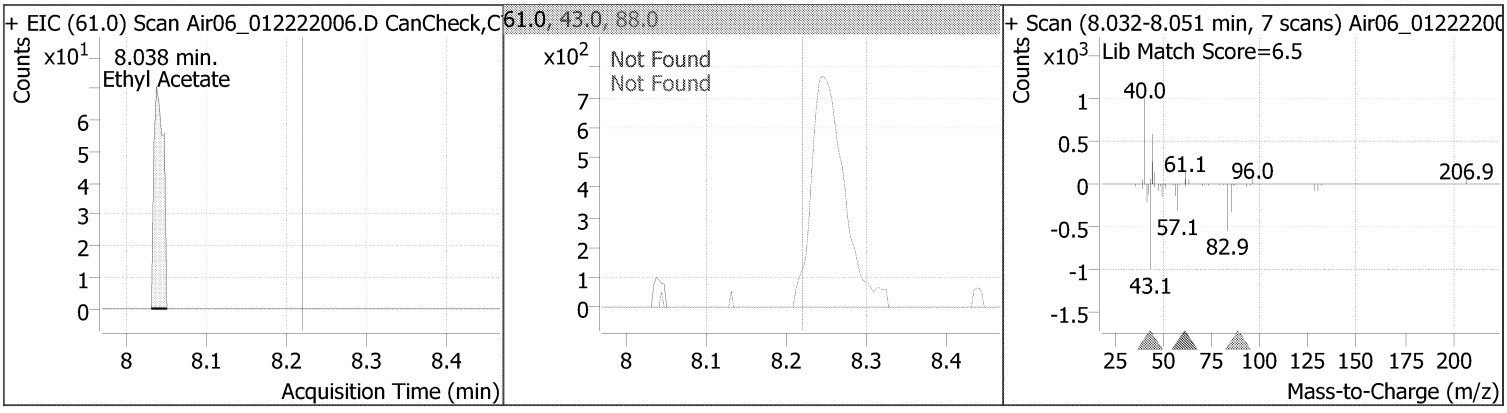
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0131 | 7.69 | 0.06 | 1505 | 72.0 | 18.8 | 16.8 | 25.2 |
| | | | | | 57.0 | | 6.9 | 10.4 |



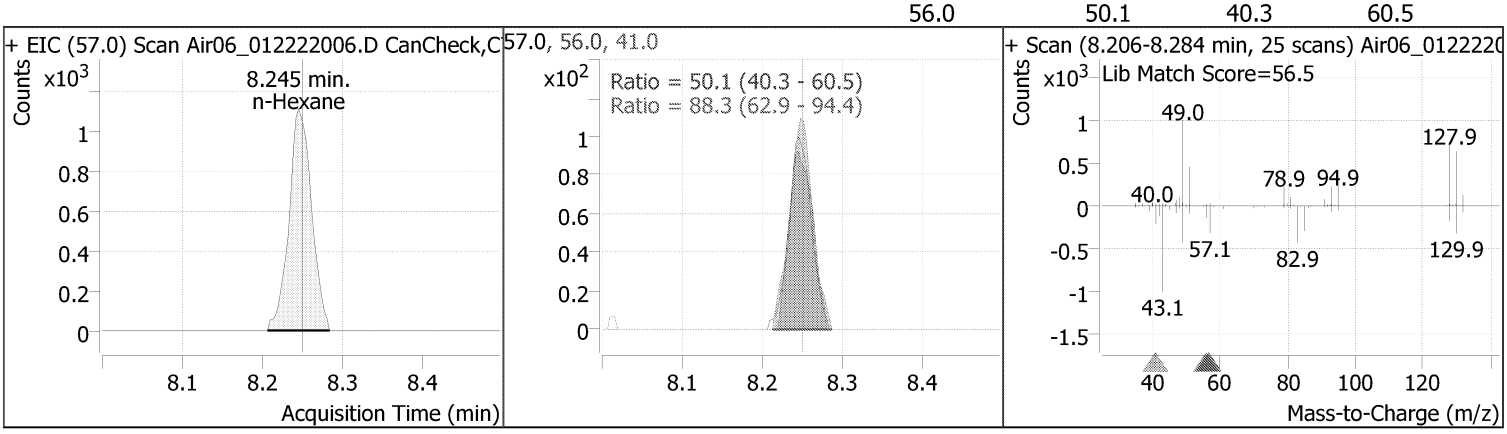

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.0008 | 8.04 | 0.00 | 58 | 96.0 | | 50.5 | 75.8 |
| | | | | | 98.0 | | 32.0 | 48.0 |
| | | | | | 63.0 | | 25.0 | 37.4 |
| | | | | | 60.0 | | 16.7 | 25.0 |



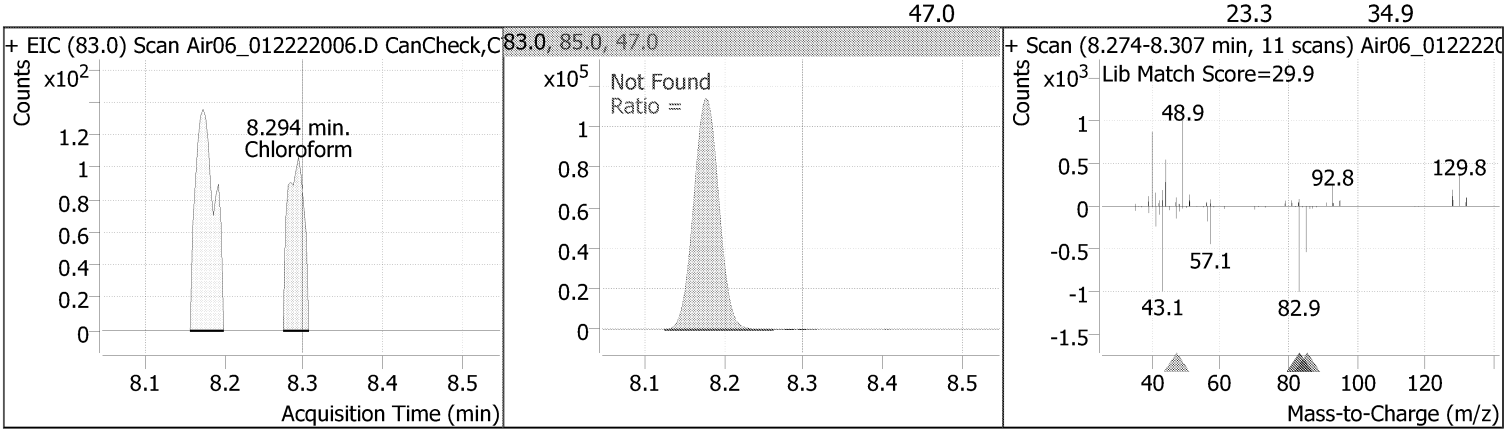

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.0032 | 8.04 | -0.18 | 58 | 43.0 | | 855.6 | 1283.3 |
| | | | | | 88.0 | | 16.9 | 25.3 |



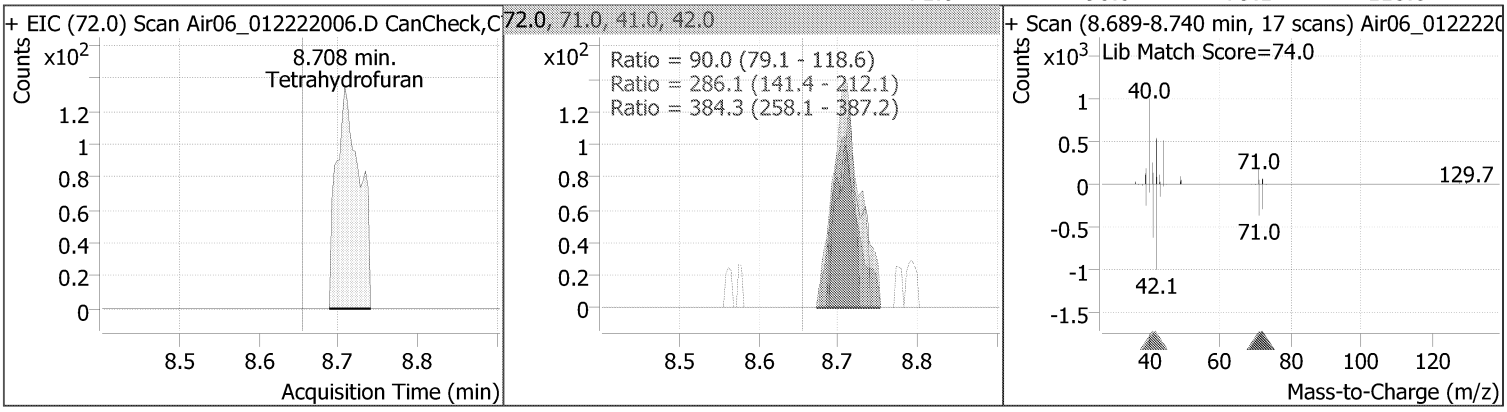
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0263 | 8.25 | 0.00 | 2178 | 41.0 | 88.3 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.1 | 40.3 | 60.5 |



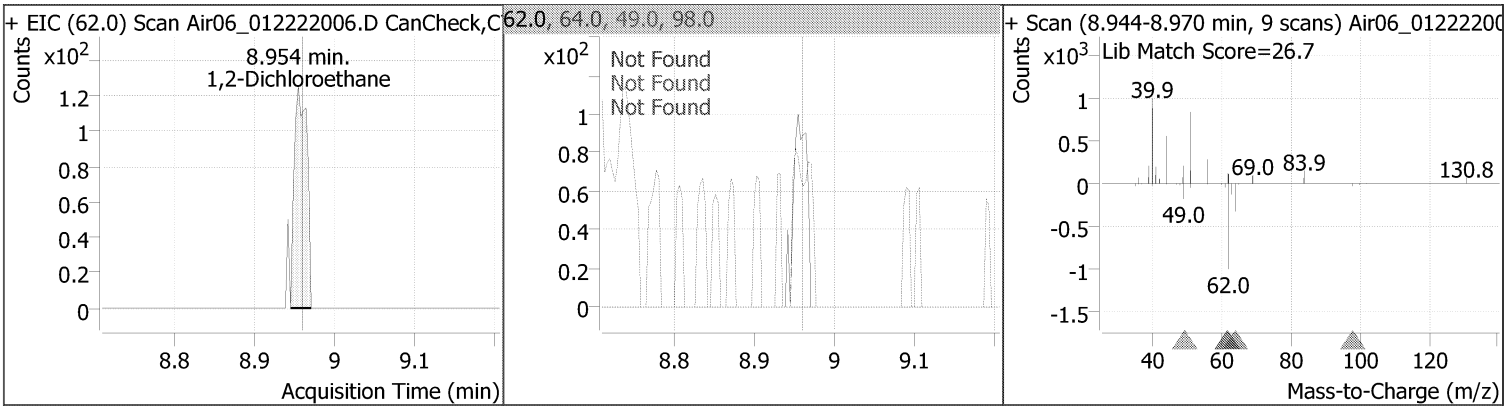

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0016 | 8.29 | 0.00 | 150 | 85.0 | | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



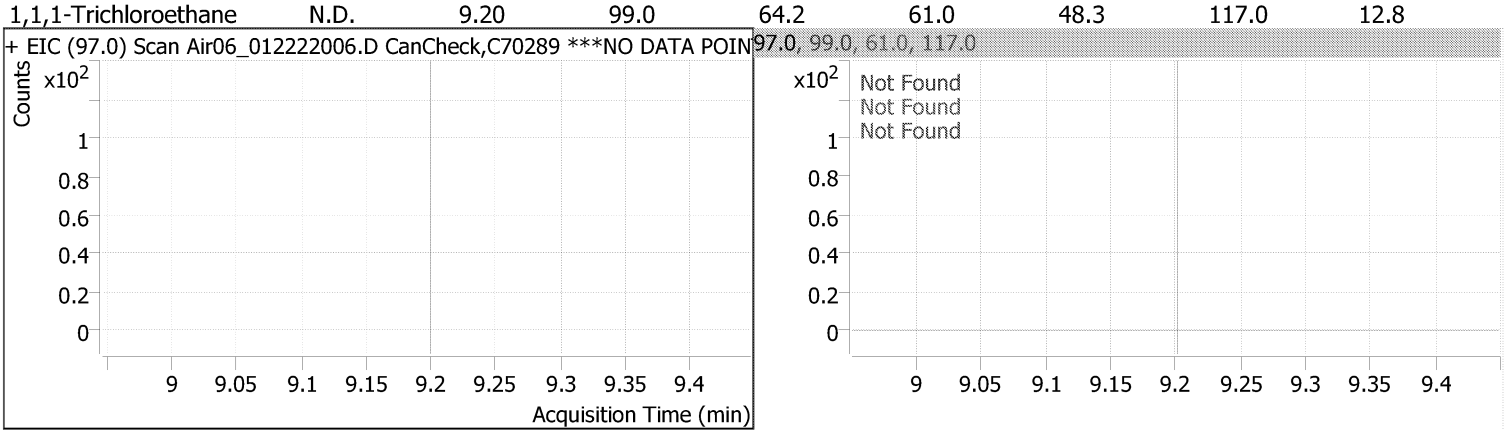

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.0133 | 8.71 | 0.06 | 273 | 42.0 | 384.3 | 258.1 | 387.2 |
| | | | | | 41.0 | 286.1 | 141.4 | 212.1 |
| | | | | | 71.0 | 90.0 | 79.1 | 118.6 |



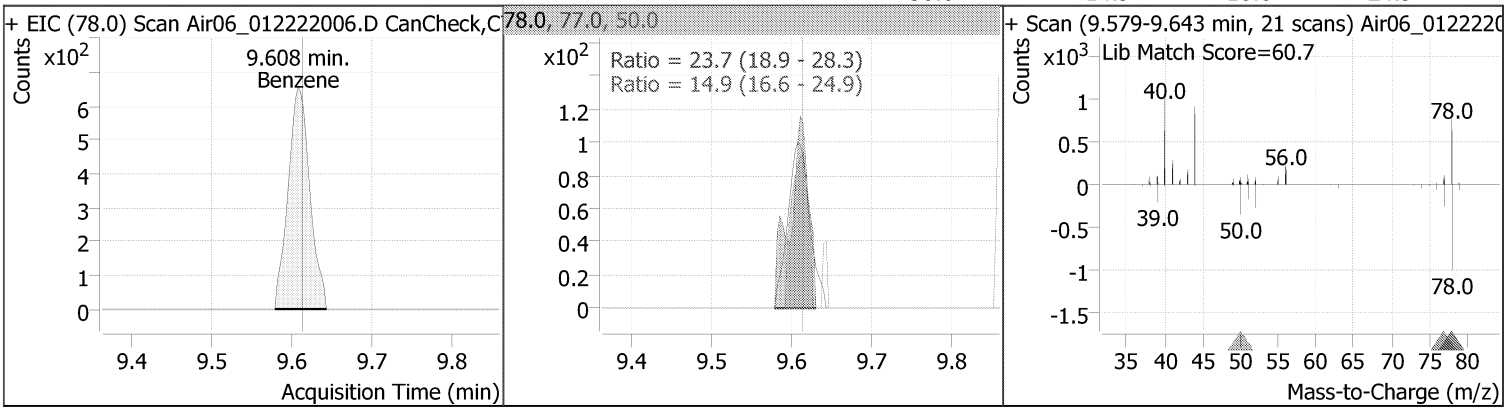
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0020 | 8.95 | 0.00 | 138 | 49.0 | | 25.9 | 38.8 |
| | | | | | 64.0 | | 25.3 | 37.9 |
| | | | | | 98.0 | | 5.8 | 8.7 |



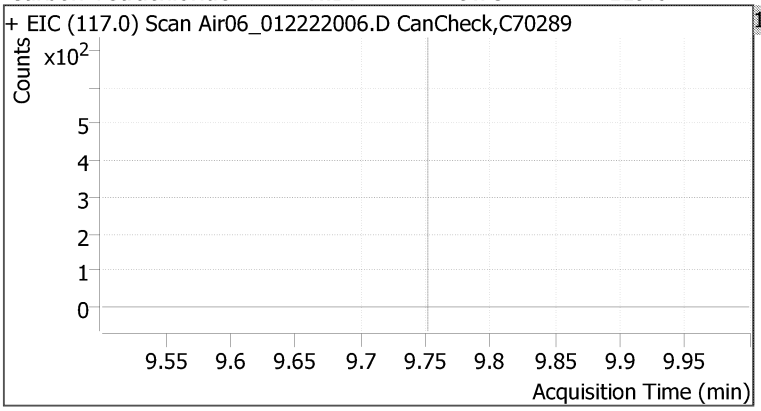

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | N.D. | 9.20 | 99.0 | 64.2 | 61.0 | 48.3 | 117.0 | 12.8 |

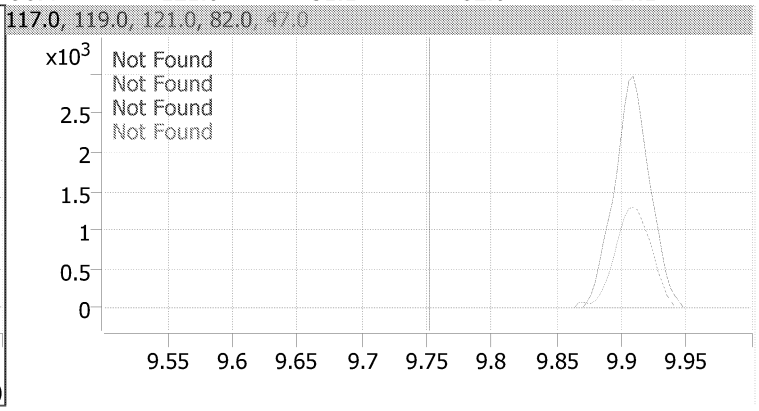



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0092 | 9.61 | 0.00 | 1242 | 77.0 | 23.7 | 18.9 | 28.3 |
| | | | | | 50.0 | 14.9 | 16.6 | 24.9 |

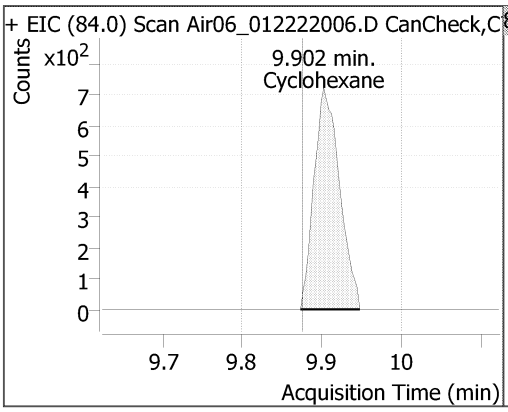


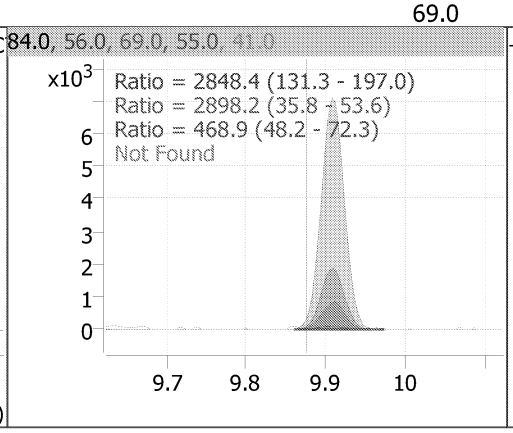
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | N.D. | 9.75 | 119.0 | 96.4 | 121.0 | 31.1 | 82.0 | 24.1 |

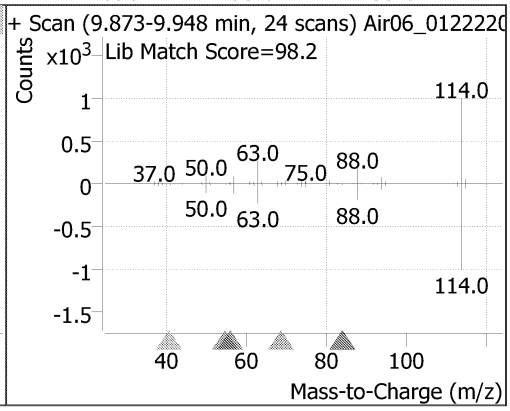


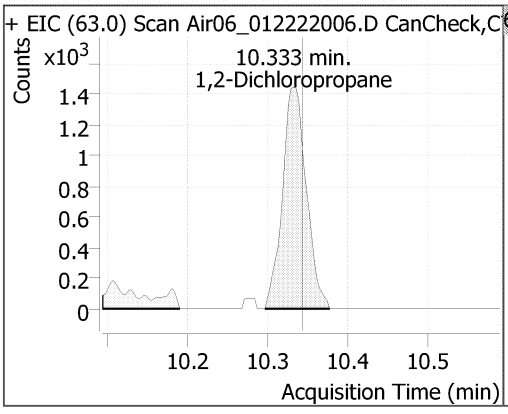

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0288 | 9.90 | 0.03 | 1619 | 56.0 | 2848.4 | 131.3 | 197.0 |
| | | | | | 41.0 | | 72.0 | 108.0 |
| | | | | | 55.0 | 468.9 | 48.2 | 72.3 |
| | | | | | 69.0 | 2898.2 | 35.8 | 53.6 |

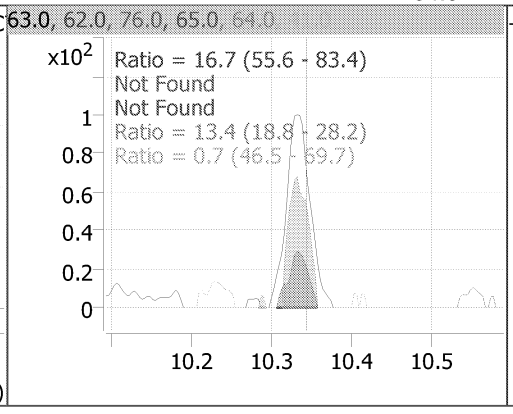


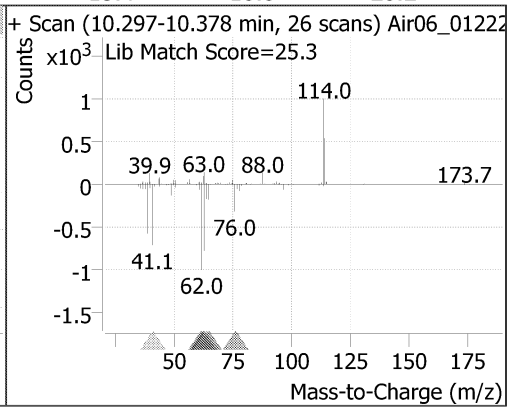



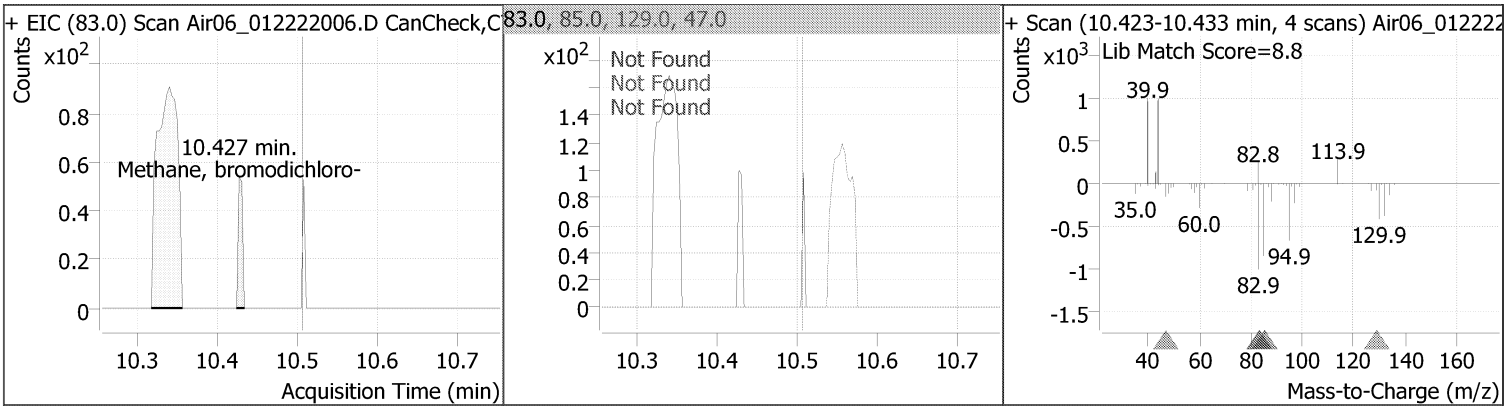

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0476 | 10.33 | -0.01 | 3019 | 62.0 | 16.7 | 55.6 | 83.4 |
| | | | | | 41.0 | 0.7 | 46.5 | 69.7 |
| | | | | | 76.0 | | 28.4 | 42.6 |
| | | | | | 65.0 | | 23.7 | 35.6 |
| | | | | | 64.0 | 13.4 | 18.8 | 28.2 |



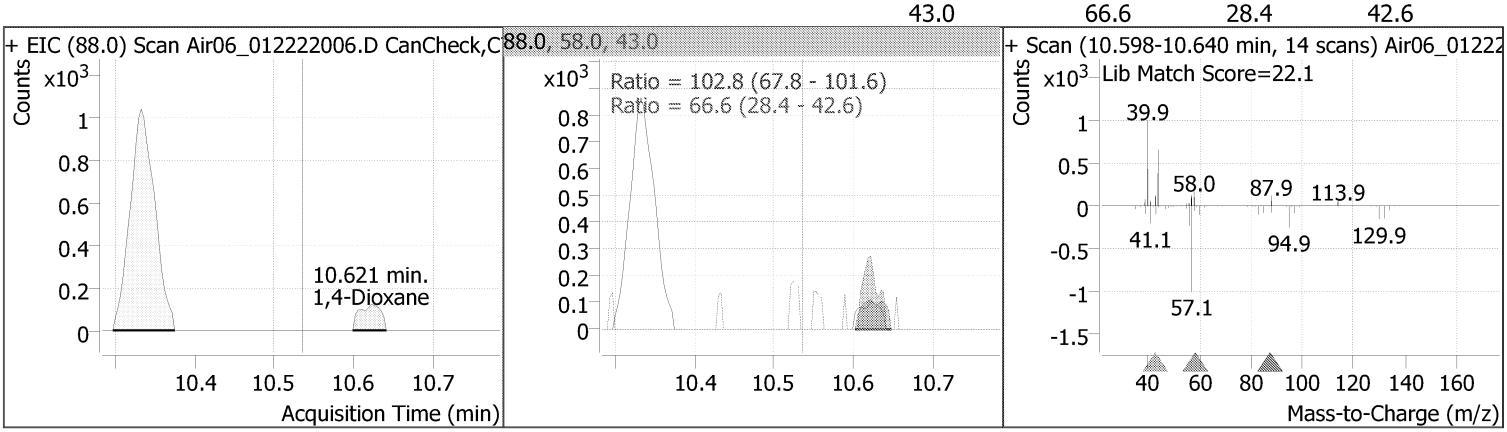



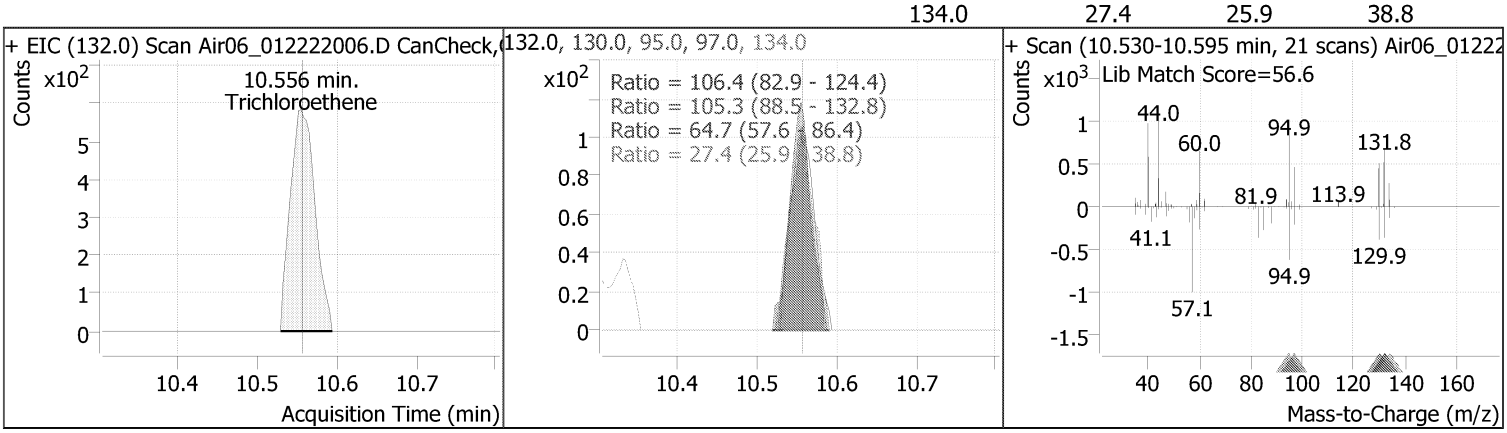
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0002 | 10.43 | -0.08 | 21 | 85.0 | | 51.4 | 77.1 |
| | | | | | 47.0 | | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



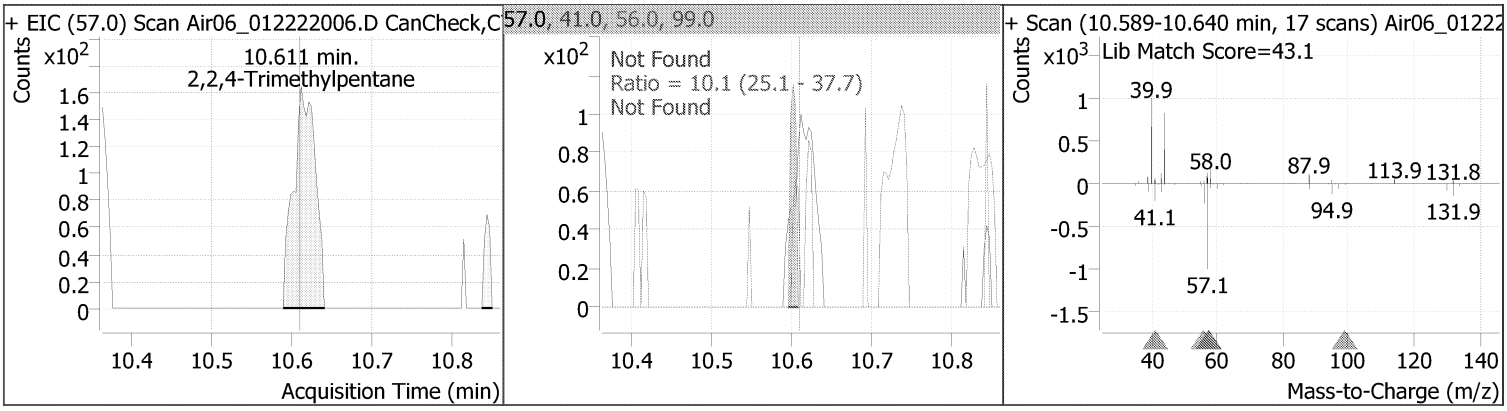

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0070 | 10.62 | 0.09 | 231 | 58.0 | 102.8 | 67.8 | 101.6 |
| | | | | | 43.0 | 66.6 | 28.4 | 42.6 |



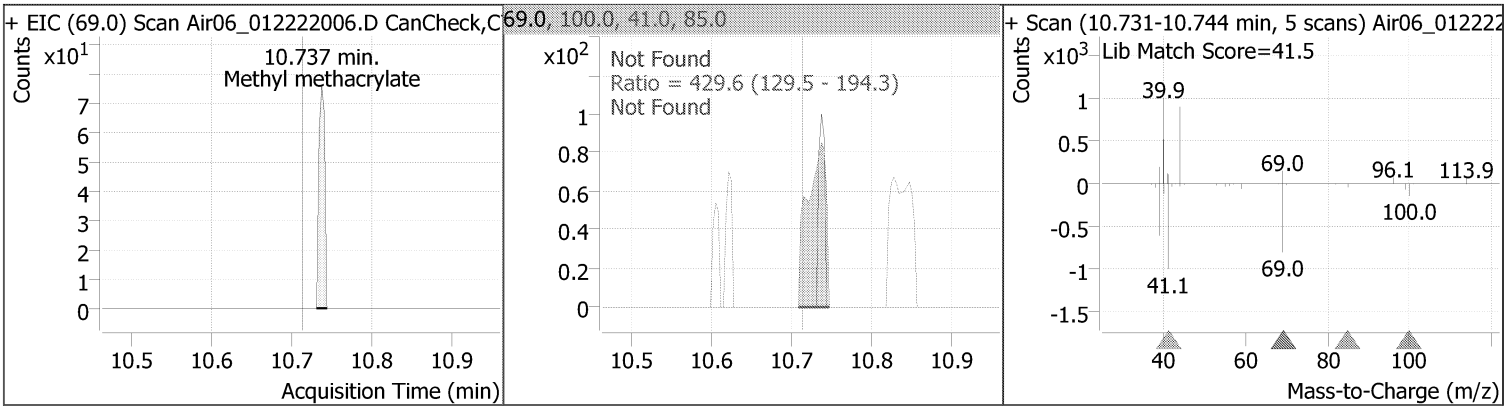

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0195 | 10.56 | 0.00 | 1258 | 95.0 | 105.3 | 88.5 | 132.8 |
| | | | | | 130.0 | 106.4 | 82.9 | 124.4 |
| | | | | | 97.0 | 64.7 | 57.6 | 86.4 |
| | | | | | 134.0 | 27.4 | 25.9 | 38.8 |



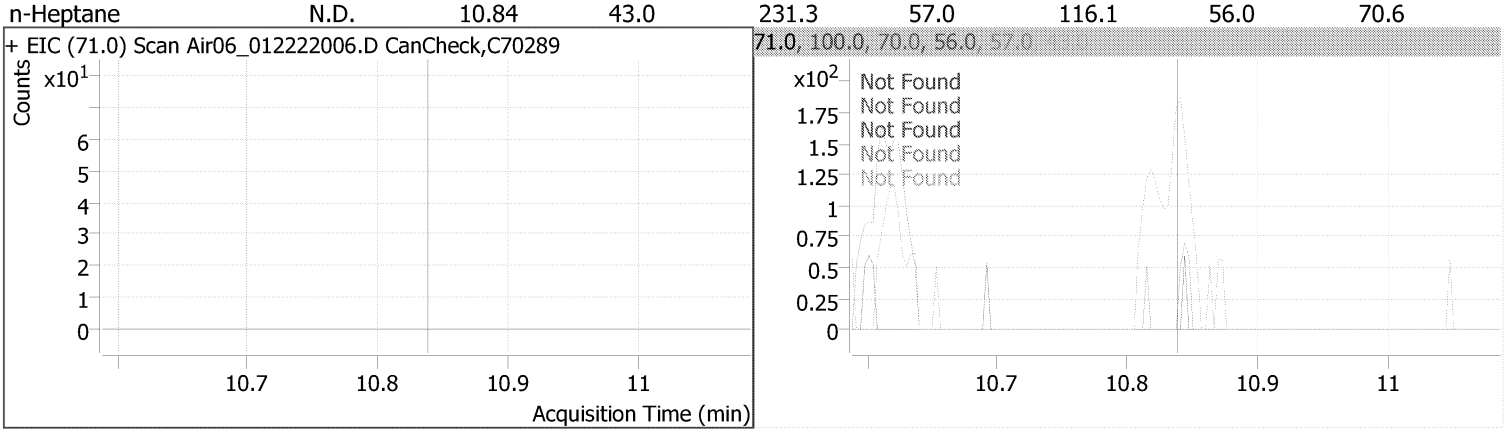
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0011 | 10.61 | 0.00 | 314 | 56.0 | 10.1 | 25.1 | 37.7 |
| | | | | | 41.0 | | 22.2 | 33.3 |
| | | | | | 99.0 | | 3.3 | 4.9 |



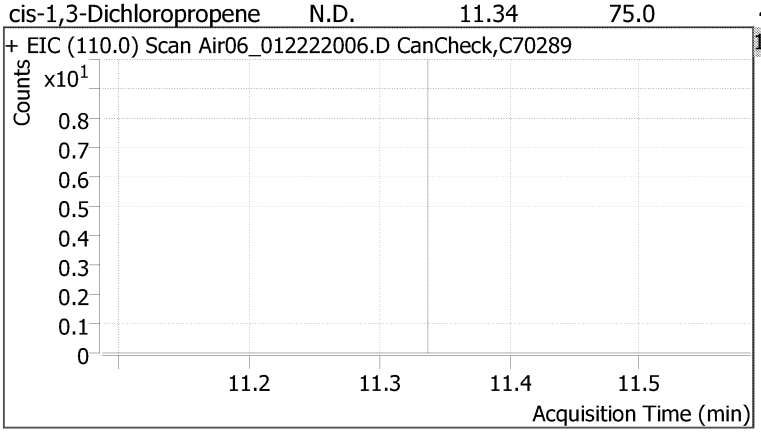

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0007 | 10.74 | 0.03 | 40 | 41.0 | 429.6 | 129.5 | 194.3 |
| | | | | | 100.0 | | 28.8 | 43.2 |
| | | | | | 85.0 | | 7.3 | 10.9 |

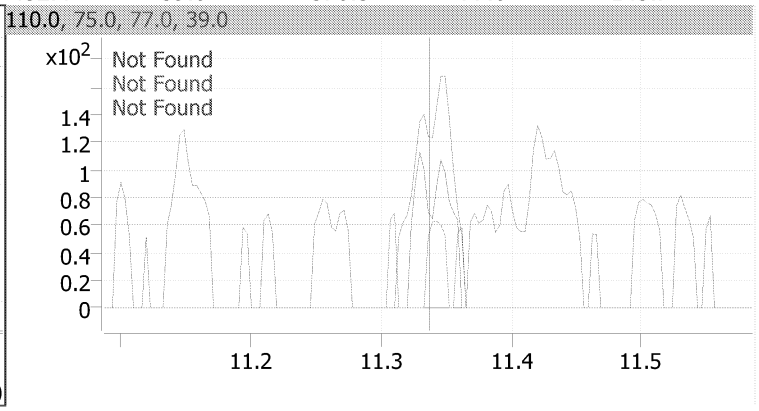



| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | N.D. | 10.84 | 43.0 | 231.3 | 57.0 | 116.1 | 56.0 | 70.6 |

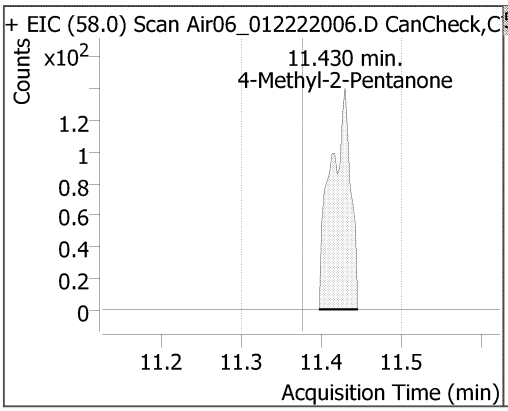


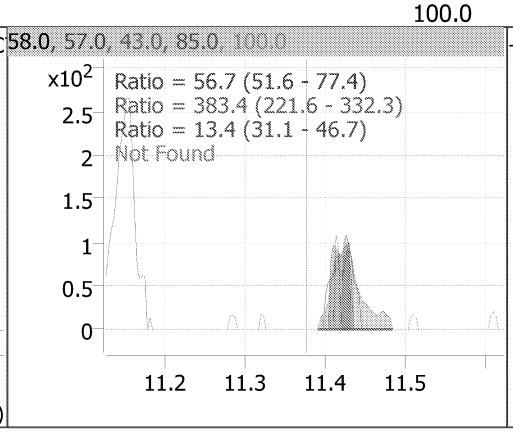
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | N.D. | 11.34 | 75.0 | 452.4 | 39.0 | 370.5 | 77.0 | 143.7 |

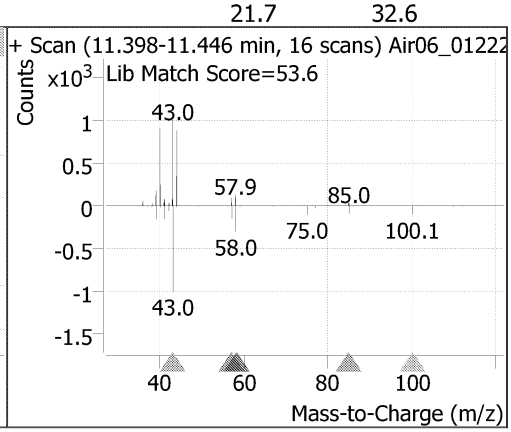


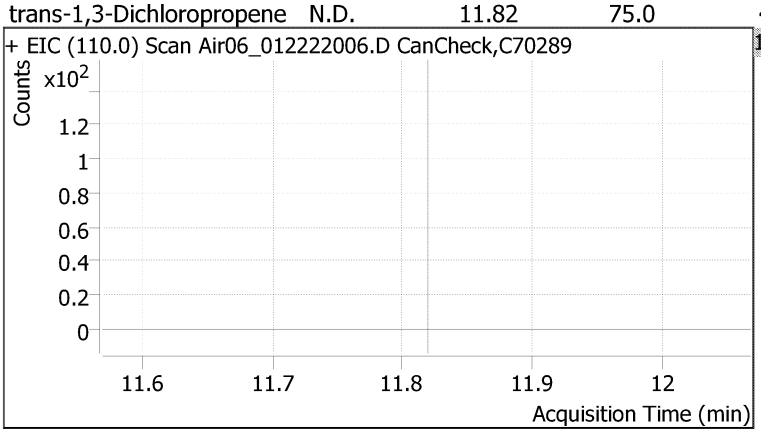

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0044 | 11.43 | 0.06 | 243 | 43.0 | 383.4 | 221.6 | 332.3 |
| | | | | | 57.0 | 56.7 | 51.6 | 77.4 |
| | | | | | 85.0 | 13.4 | 31.1 | 46.7 |
| | | | | | 100.0 | | 21.7 | 32.6 |

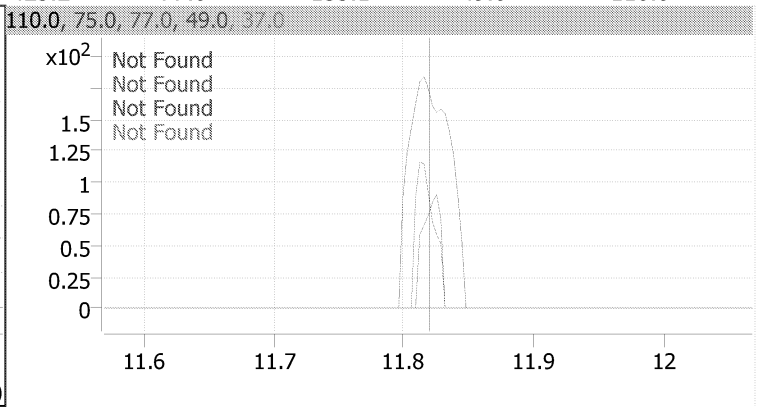


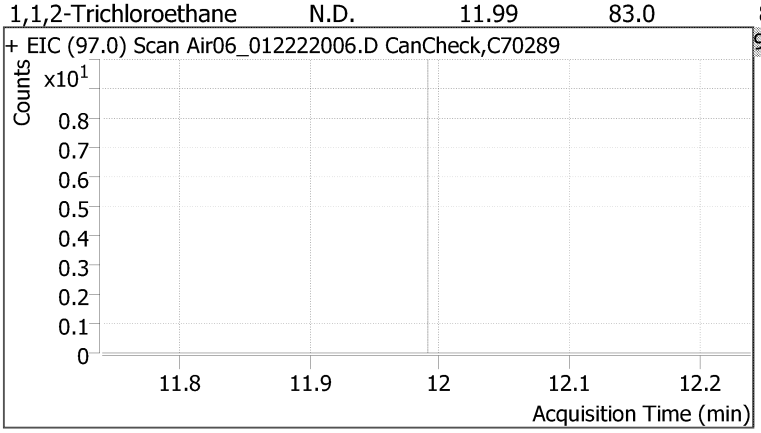



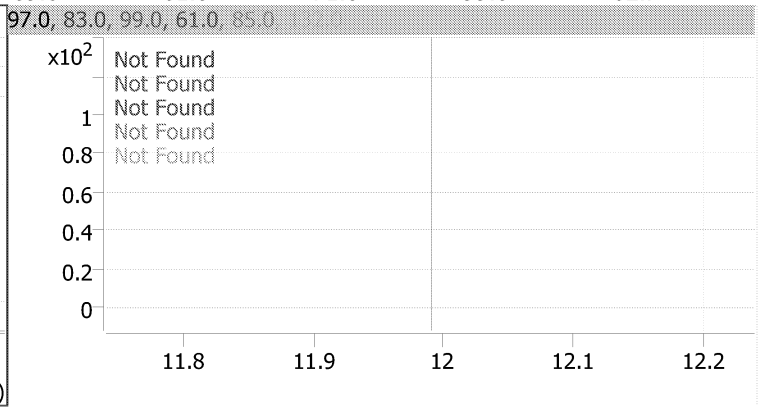

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | N.D. | 11.82 | 75.0 | 425.2 | 77.0 | 135.1 | 49.0 | 110.0 |



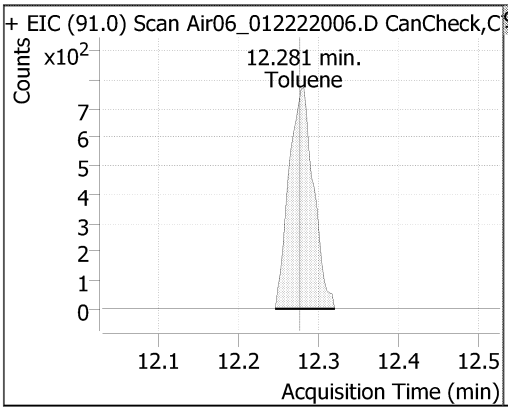



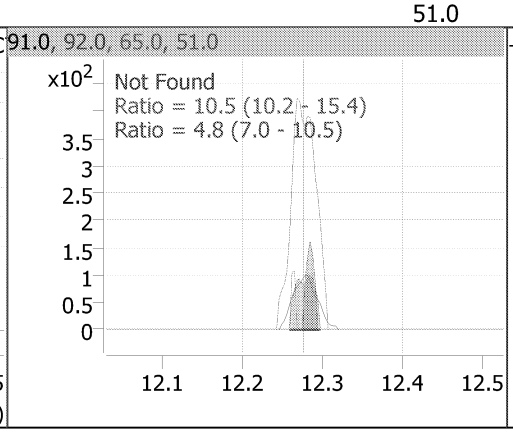
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | N.D. | 11.99 | 83.0 | 89.6 | 61.0 | 71.0 | 99.0 | 62.7 |

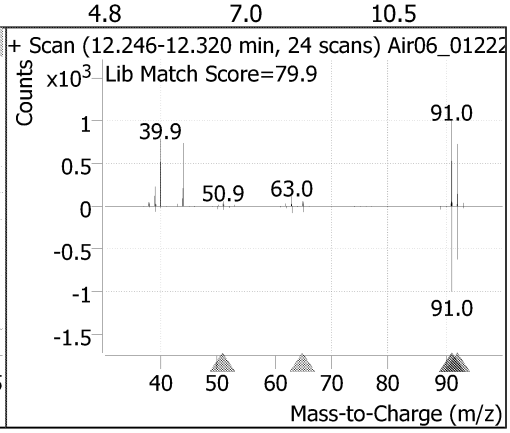


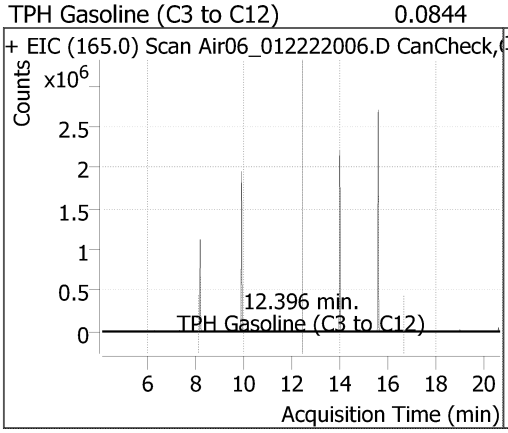

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0090 | 12.28 | 0.00 | 1657 | 92.0 | | 46.1 | 69.1 |
| | | | | | 65.0 | 10.5 | 10.2 | 15.4 |
| | | | | | 51.0 | 4.8 | 7.0 | 10.5 |

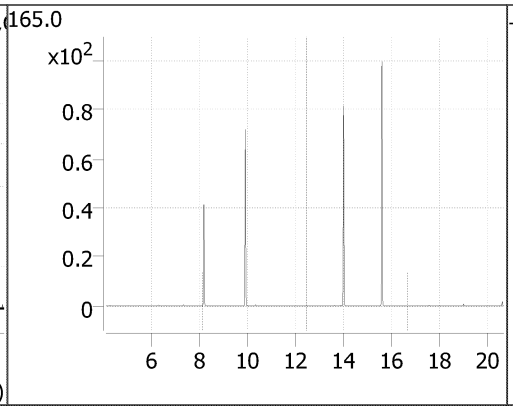


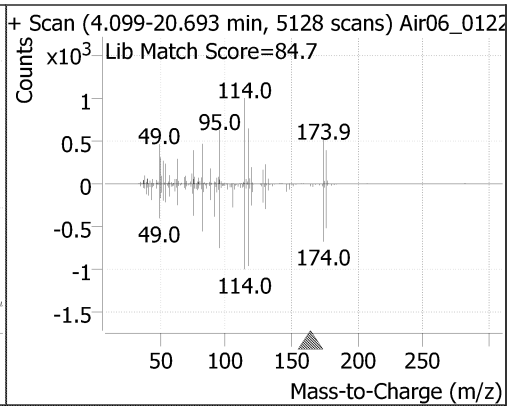



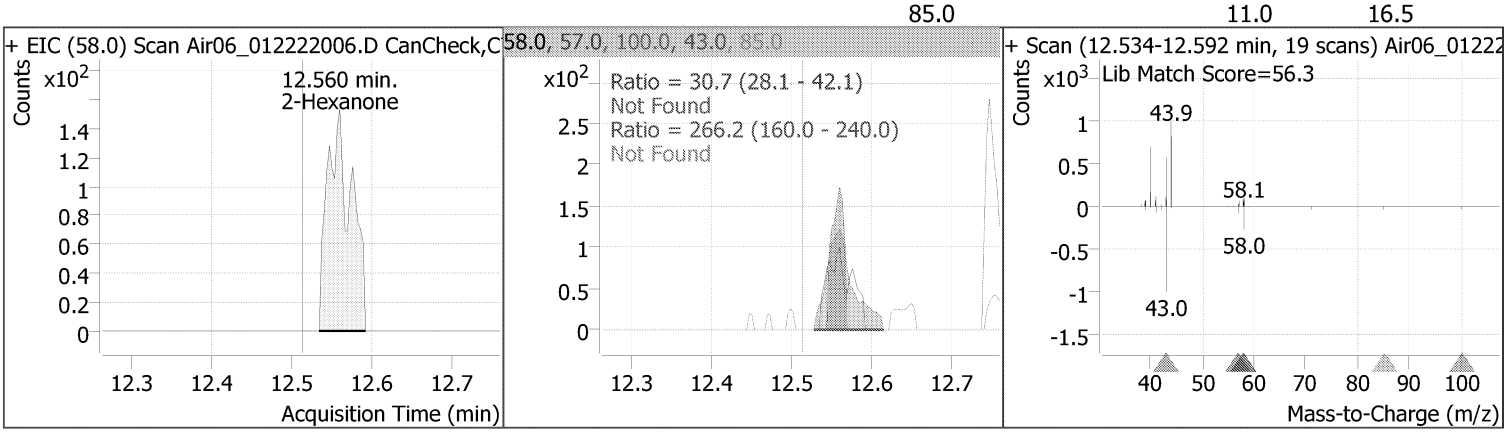

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 0.0844 | 12.40 | 0.00 | 1045472 | | | | |



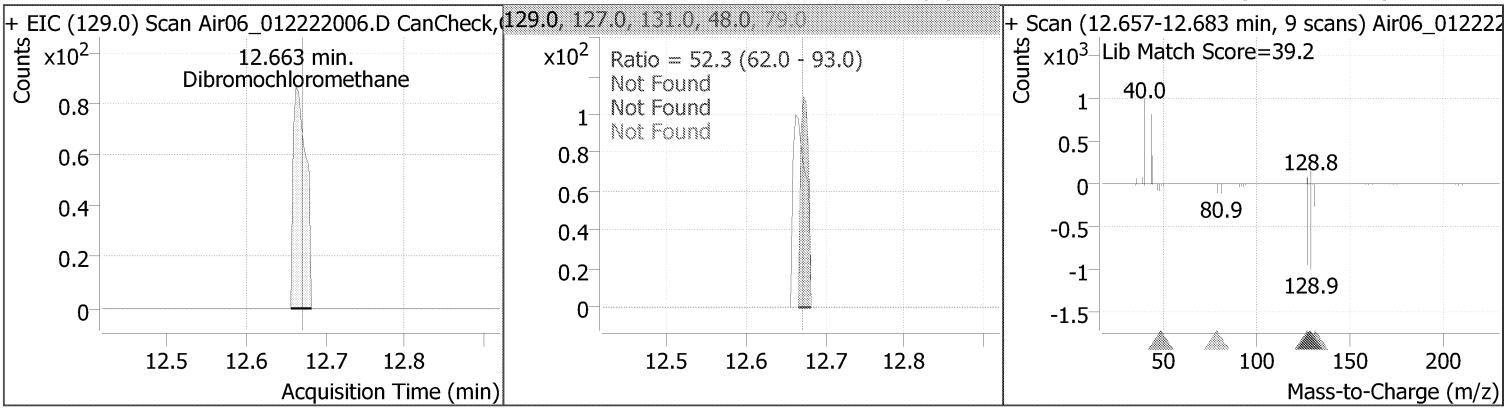



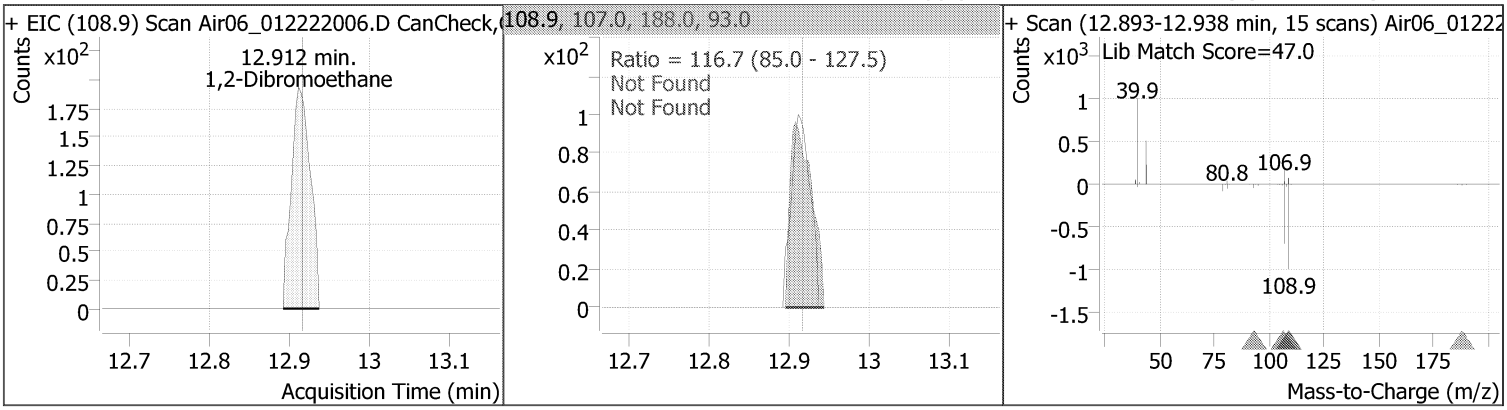
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.0045 | 12.56 | 0.05 | 323 | 43.0 | 266.2 | 160.0 | 240.0 |
| | | | | | 57.0 | 30.7 | 28.1 | 42.1 |
| | | | | | 100.0 | | 11.9 | 17.9 |
| | | | | | 85.0 | | 11.0 | 16.5 |



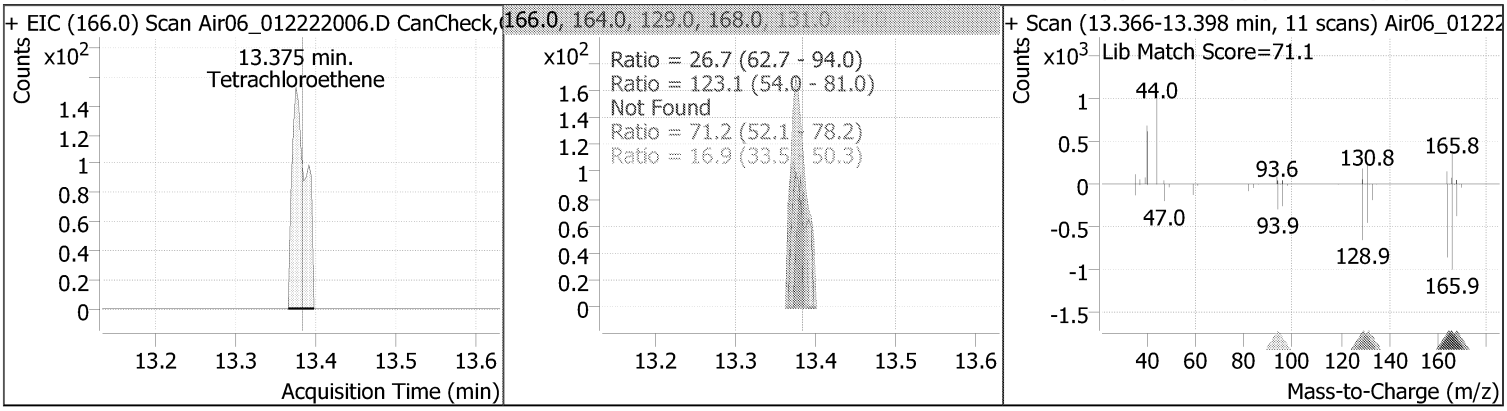

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.0009 | 12.66 | -0.01 | 95 | 127.0 | 52.3 | 62.0 | 93.0 |
| | | | | | 131.0 | | 19.3 | 29.0 |
| | | | | | 48.0 | | 14.0 | 21.0 |
| | | | | | 79.0 | | 13.1 | 19.7 |



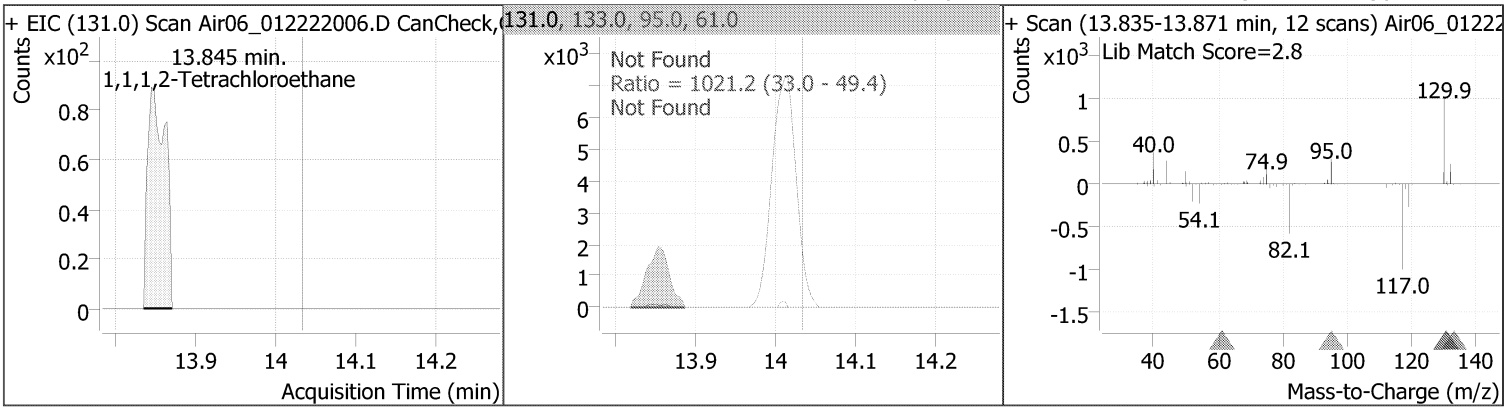

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.0034 | 12.91 | 0.00 | 320 | 107.0 | 116.7 | 85.0 | 127.5 |
| | | | | | 93.0 | | 5.4 | 8.1 |
| | | | | | 188.0 | | 3.5 | 5.2 |



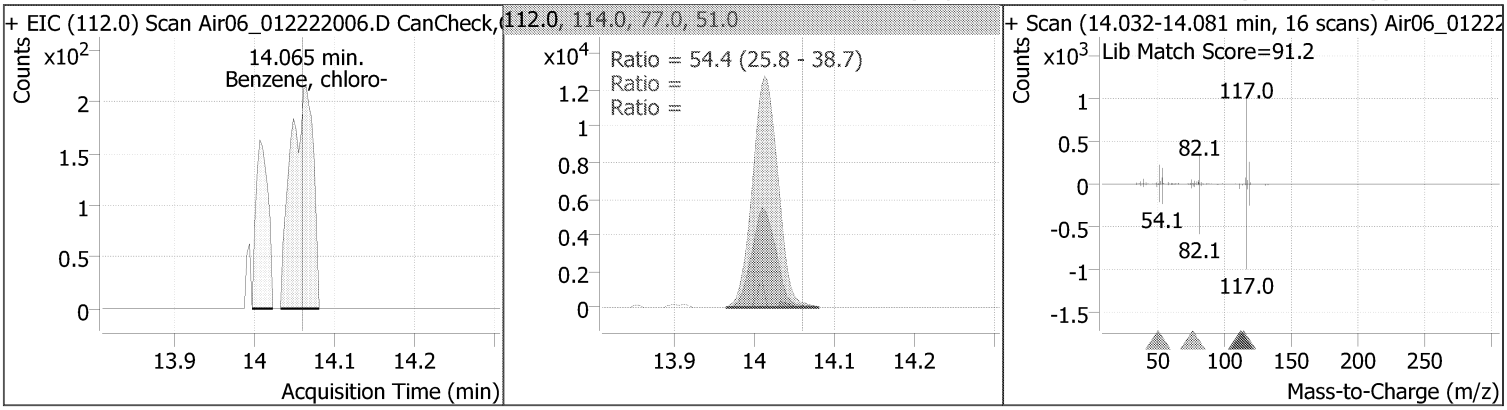
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0020 | 13.38 | -0.01 | 190 | 164.0 | 26.7 | 62.7 | 94.0 |
| | | | | | 129.0 | 123.1 | 54.0 | 81.0 |
| | | | | | 131.0 | 71.2 | 52.1 | 78.2 |
| | | | | | 168.0 | | 38.5 | 57.8 |
| | | | | | 94.0 | 16.9 | 33.5 | 50.3 |



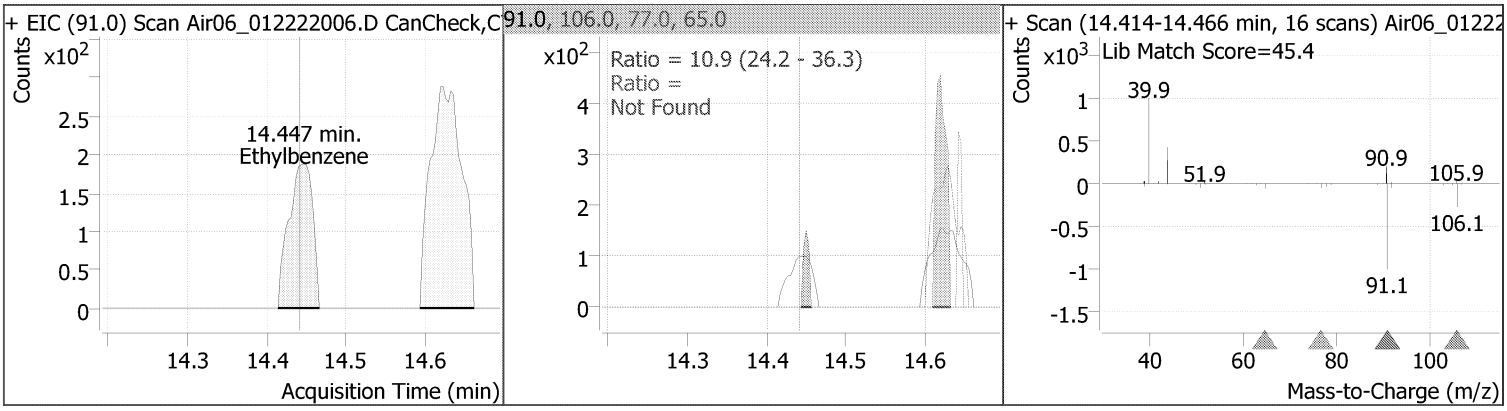

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0021 | 13.84 | -0.19 | 138 | 133.0 | | 76.9 | 115.3 |
| | | | | | 95.0 | 1021.2 | 33.0 | 49.4 |
| | | | | | 61.0 | | 25.4 | 38.1 |



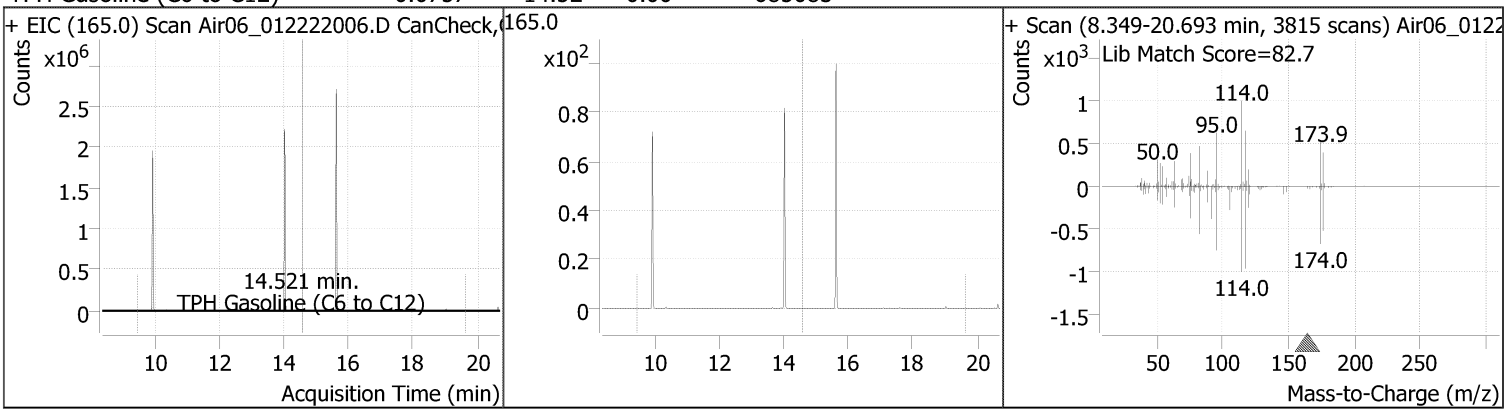

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0032 | 14.06 | 0.00 | 420 | 77.0 | | 50.5 | 75.7 |
| | | | | | 114.0 | 54.4 | 25.8 | 38.7 |
| | | | | | 51.0 | | 23.4 | 35.1 |



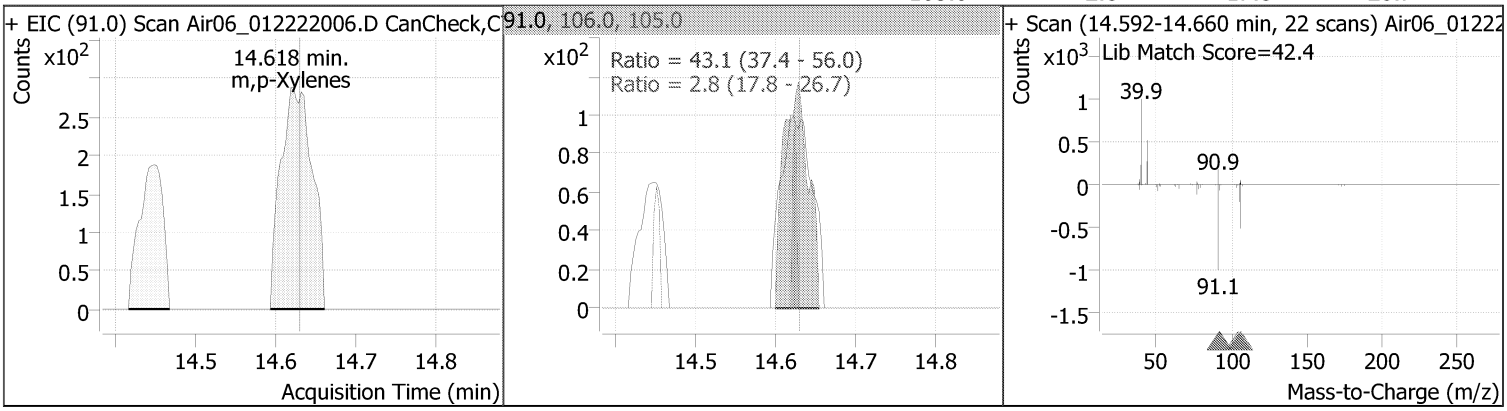
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0019 | 14.45 | 0.00 | 392 | 106.0 | 10.9 | 24.2 | 36.3 |
| | | | | | 65.0 | | 7.8 | 11.8 |
| | | | | | 77.0 | | 7.1 | 10.6 |



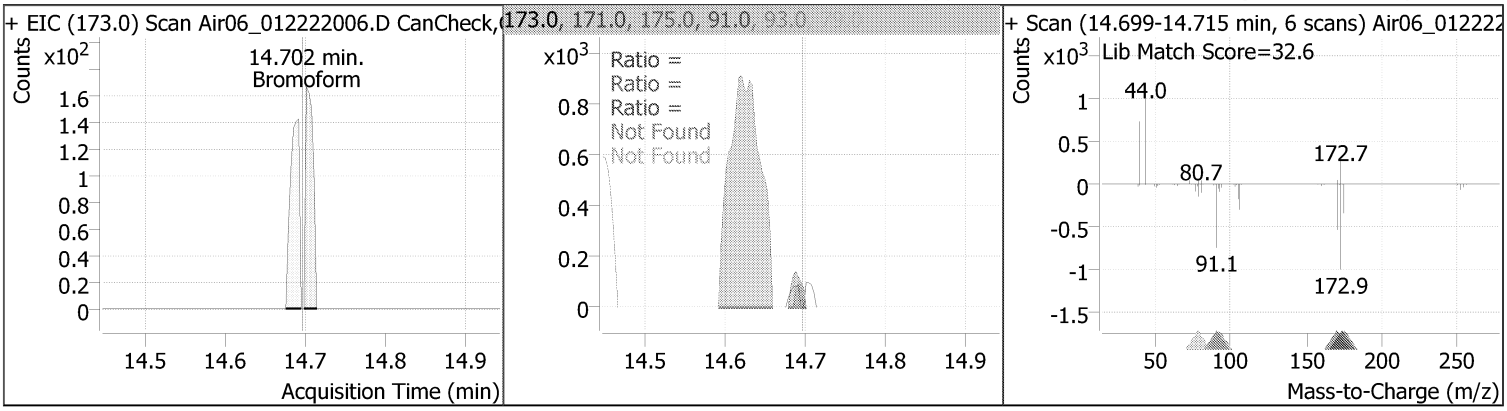

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 0.0757 | 14.52 | 0.00 | 685083 | | | | |



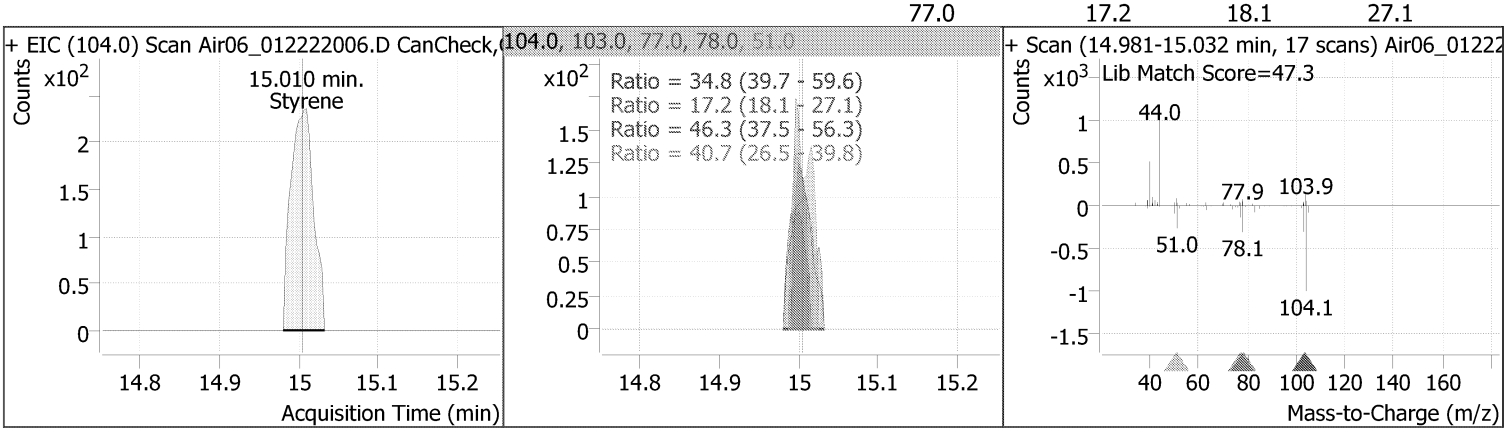

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.0047 | 14.62 | -0.02 | 799 | 106.0 | 43.1 | 37.4 | 56.0 |
| | | | | | 105.0 | 2.8 | 17.8 | 26.7 |



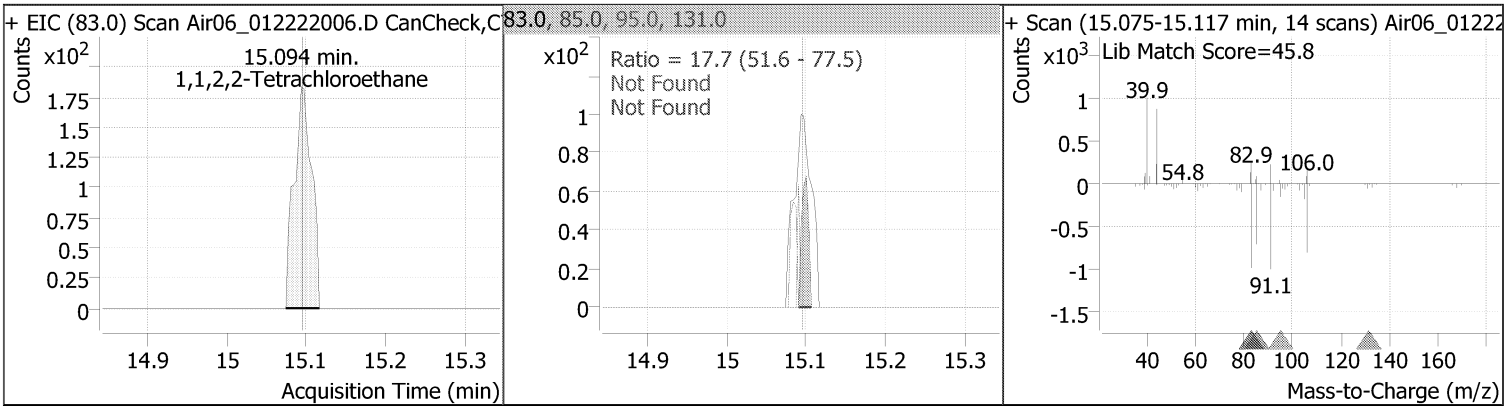
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.0010 | 14.70 | 0.00 | 112 | 171.0 | | 41.0 | 61.5 |
| | | | | | 175.0 | | 39.2 | 58.9 |
| | | | | | 93.0 | | 15.4 | 23.1 |
| | | | | | 91.0 | | 15.2 | 22.8 |
| | | | | | 79.0 | | 15.1 | 22.6 |



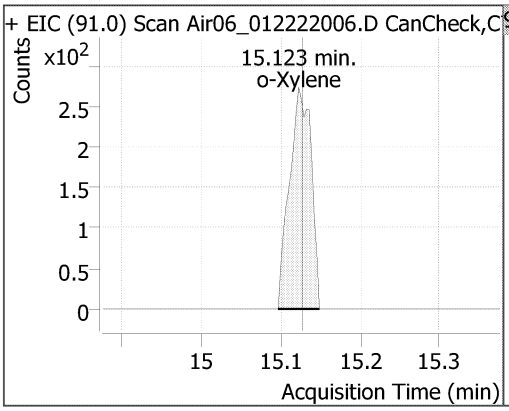

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.0035 | 15.01 | 0.00 | 471 | 103.0 | 34.8 | 39.7 | 59.6 |
| | | | | | 78.0 | 46.3 | 37.5 | 56.3 |
| | | | | | 51.0 | 40.7 | 26.5 | 39.8 |
| | | | | | 77.0 | 17.2 | 18.1 | 27.1 |

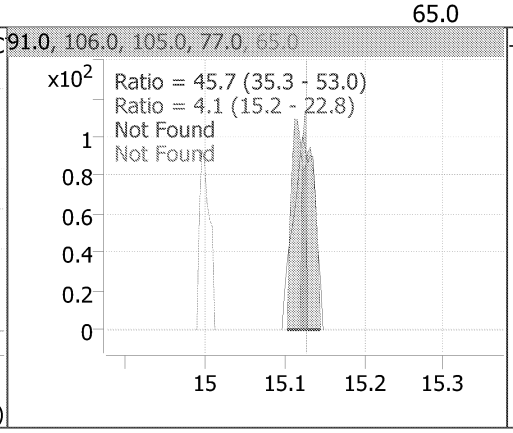


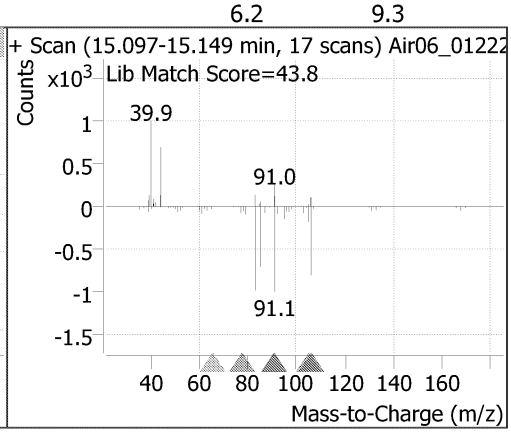

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.0022 | 15.09 | 0.00 | 282 | 85.0 | 17.7 | 51.6 | 77.5 |
| | | | | | 95.0 | | 12.9 | 19.4 |
| | | | | | 131.0 | | 7.8 | 11.7 |



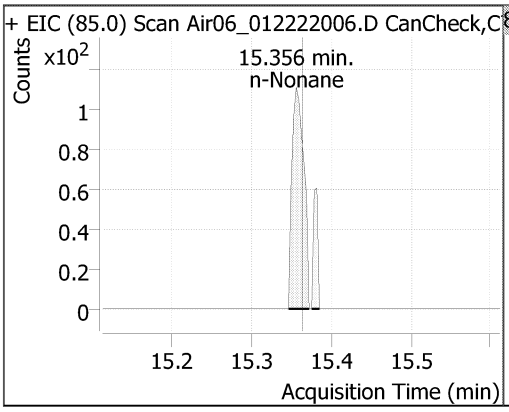
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.0030 | 15.12 | -0.01 | 517 | 106.0 | 45.7 | 35.3 | 53.0 |
| | | | | | 105.0 | 4.1 | 15.2 | 22.8 |
| | | | | | 77.0 | | 10.1 | 15.2 |
| | | | | | 65.0 | | 6.2 | 9.3 |

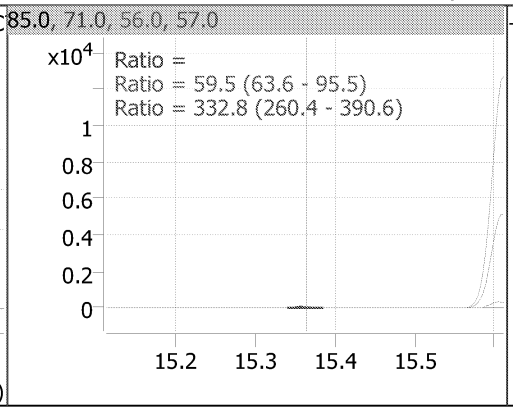


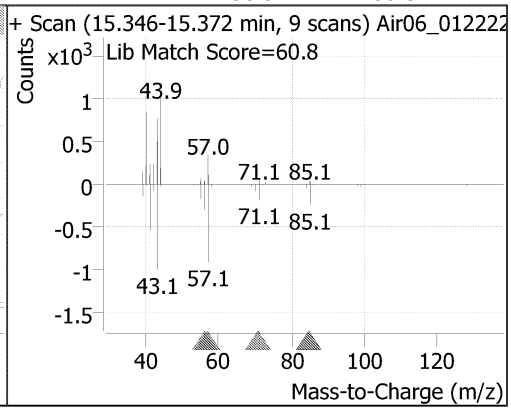



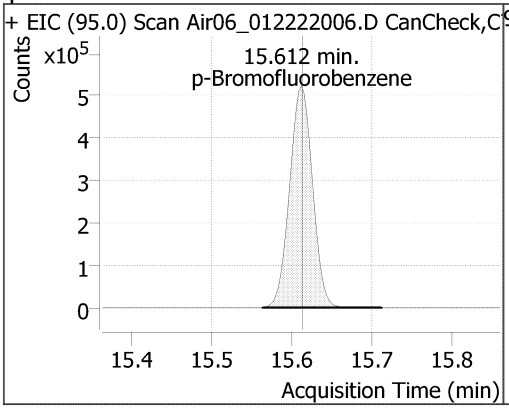

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.0029 | 15.36 | -0.01 | 114 | 57.0 | 332.8 | 260.4 | 390.6 |
| | | | | | 56.0 | 59.5 | 63.6 | 95.5 |
| | | | | | 71.0 | | 58.9 | 88.3 |

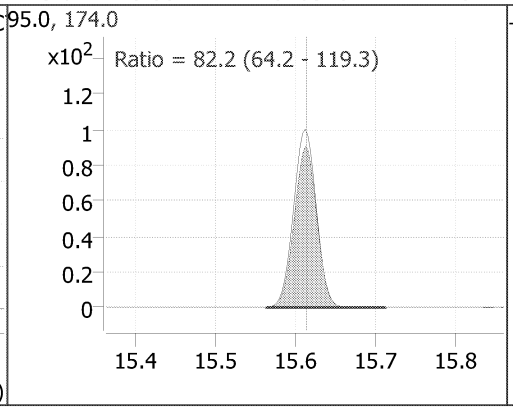


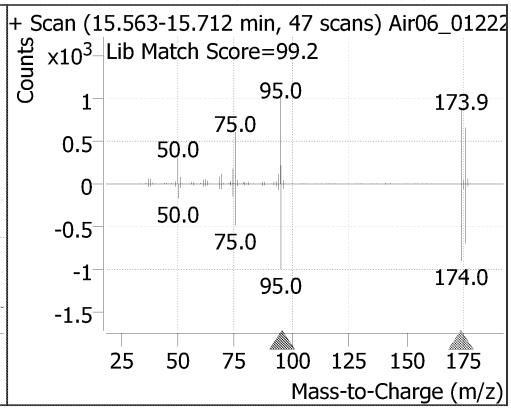



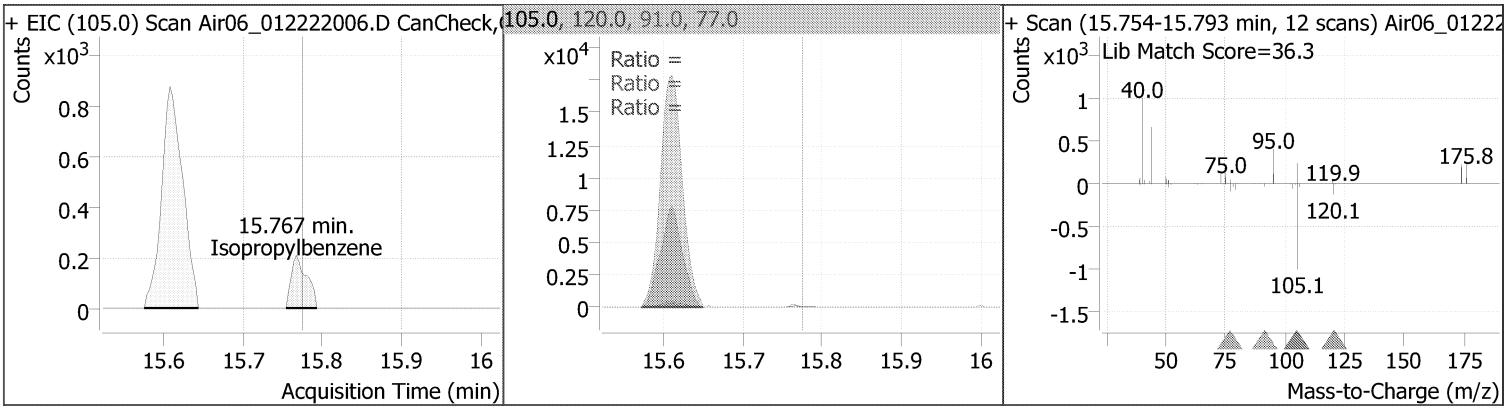

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.3436 | 15.61 | 0.00 | 1046310 | 174.0 | 82.2 | 64.2 | 119.3 |



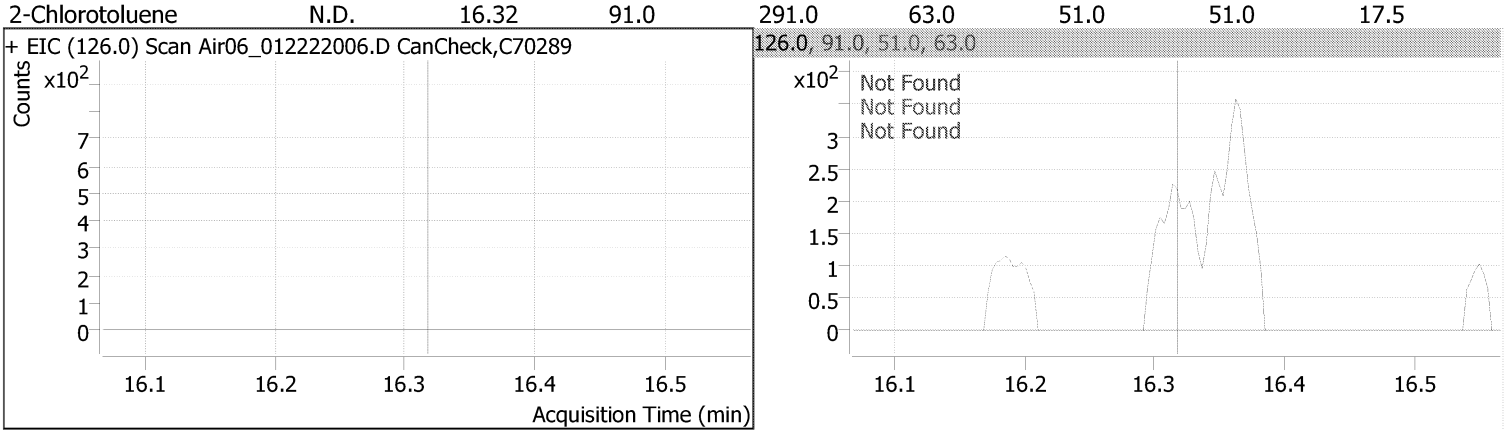



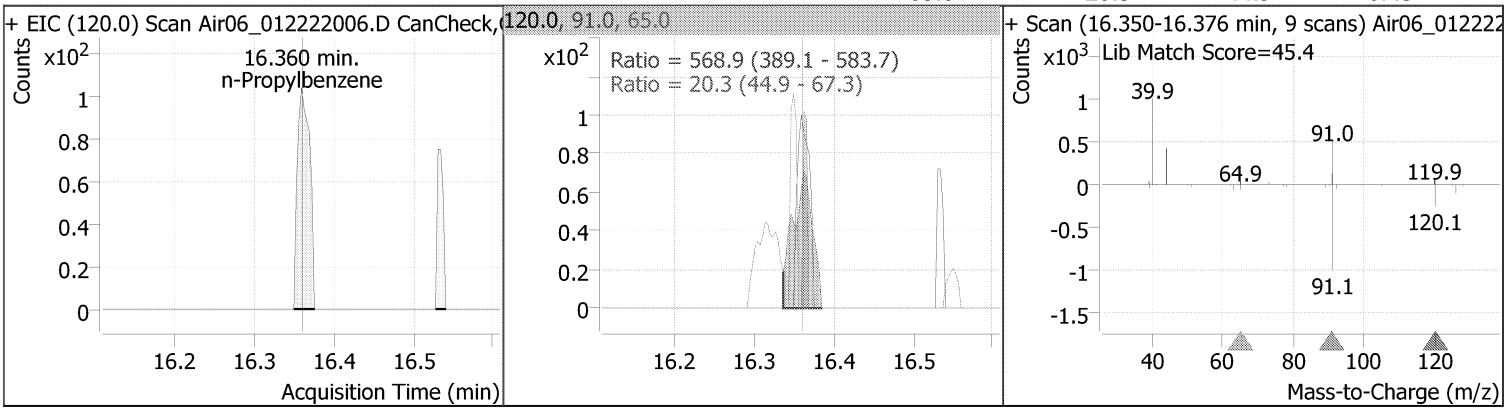
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0012 | 15.77 | -0.01 | 285 | 120.0 | | 20.1 | 30.1 |
| | | | | | 77.0 | | 13.1 | 19.6 |
| | | | | | 91.0 | | 5.0 | 7.5 |



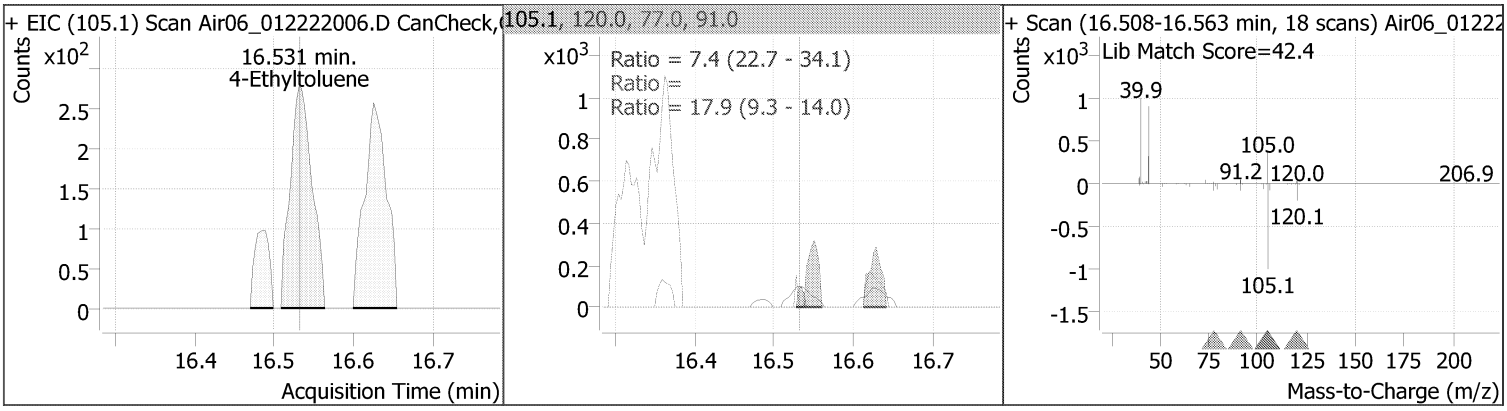

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | N.D. | 16.32 | 91.0 | 291.0 | 63.0 | 51.0 | 51.0 | 17.5 |



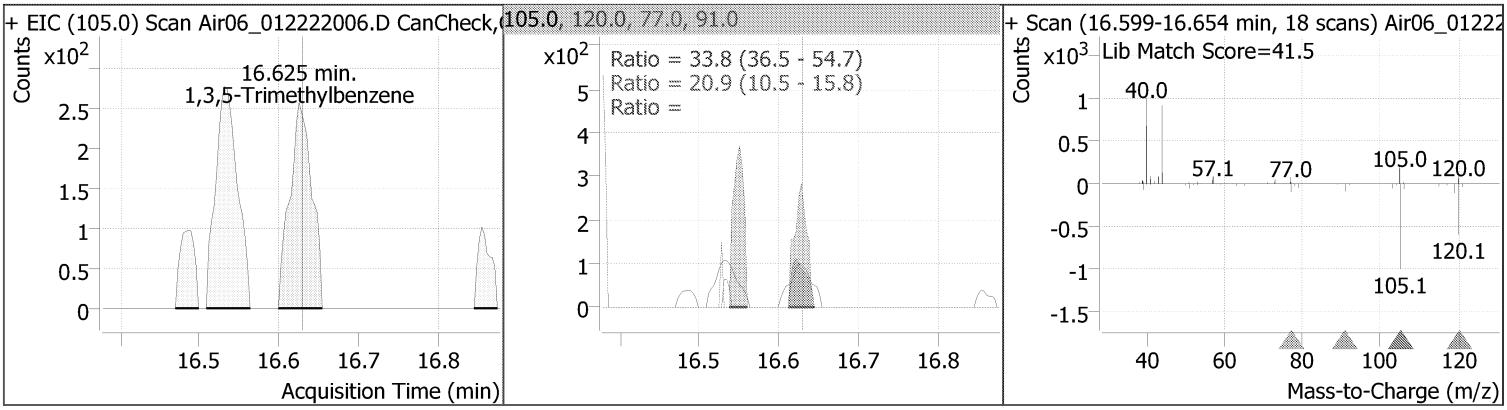

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0017 | 16.36 | 0.00 | 112 | 91.0 | 568.9 | 389.1 | 583.7 |
| | | | | | 65.0 | 20.3 | 44.9 | 67.3 |



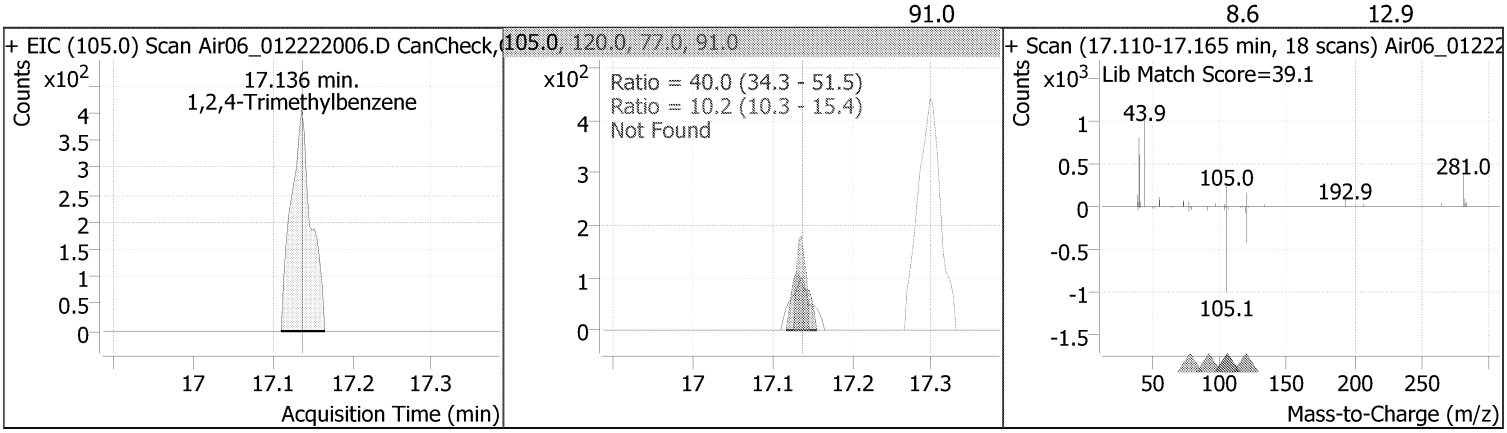
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0023 | 16.53 | -0.01 | 534 | 120.0 | 7.4 | 22.7 | 34.1 |
| | | | | | 77.0 | | 9.6 | 14.4 |
| | | | | | 91.0 | 17.9 | 9.3 | 14.0 |



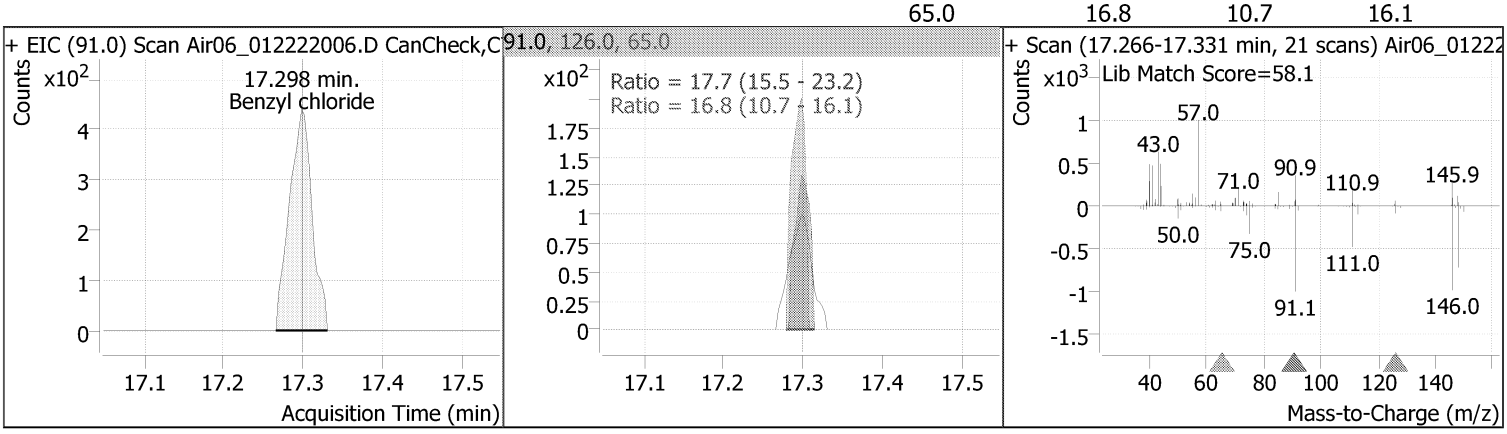

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.0024 | 16.62 | -0.01 | 497 | 120.0 | 33.8 | 36.5 | 54.7 |
| | | | | | 77.0 | 20.9 | 10.5 | 15.8 |
| | | | | | 91.0 | | 8.6 | 13.0 |



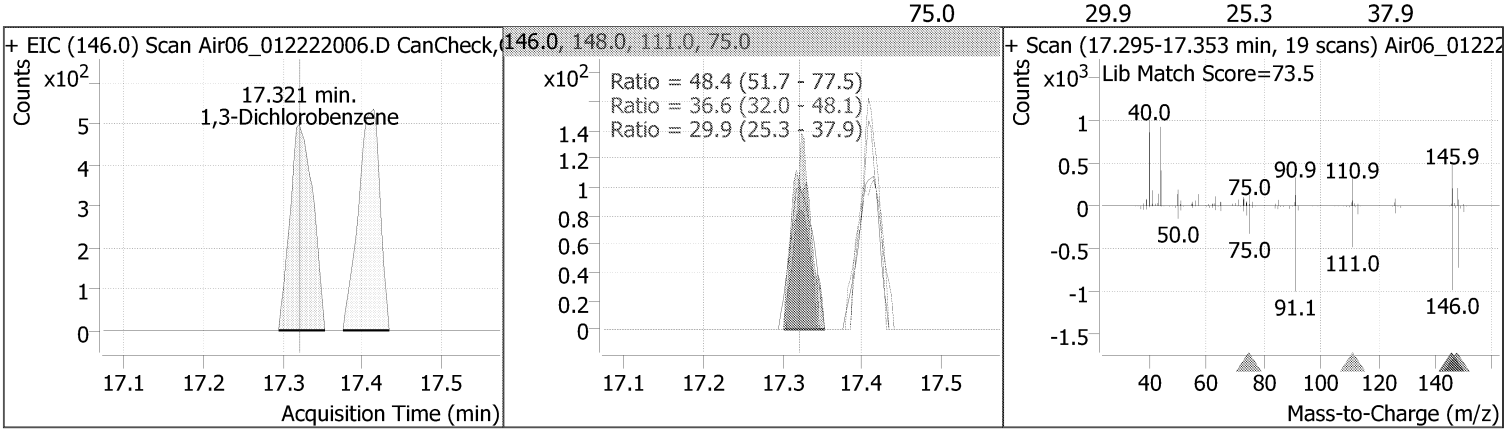

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.0035 | 17.14 | 0.00 | 707 | 120.0 | 40.0 | 34.3 | 51.5 |
| | | | | | 77.0 | 10.2 | 10.3 | 15.4 |
| | | | | | 91.0 | | 8.6 | 12.9 |



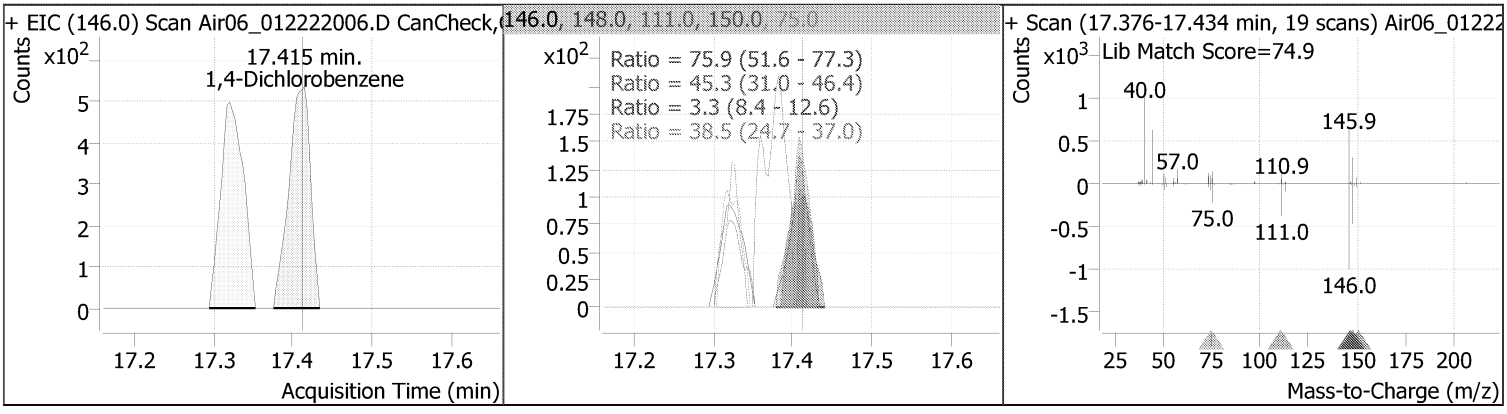
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0049 | 17.30 | 0.00 | 873 | 126.0 | 17.7 | 15.5 | 23.2 |
| | | | | | 65.0 | 16.8 | 10.7 | 16.1 |



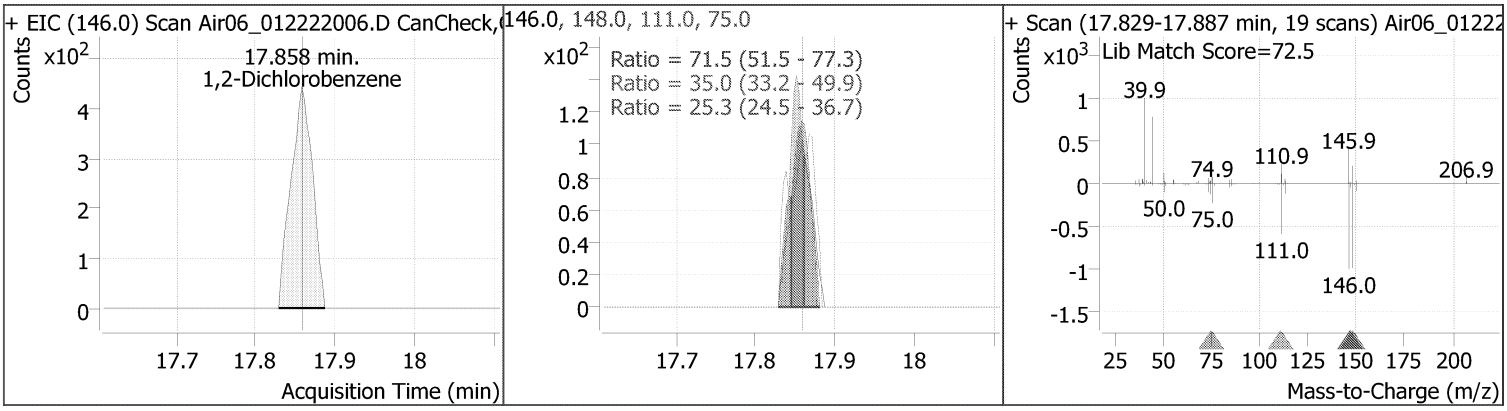

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.0072 | 17.32 | -0.01 | 1000 | 148.0 | 48.4 | 51.7 | 77.5 |
| | | | | | 111.0 | 36.6 | 32.0 | 48.1 |
| | | | | | 75.0 | 29.9 | 25.3 | 37.9 |



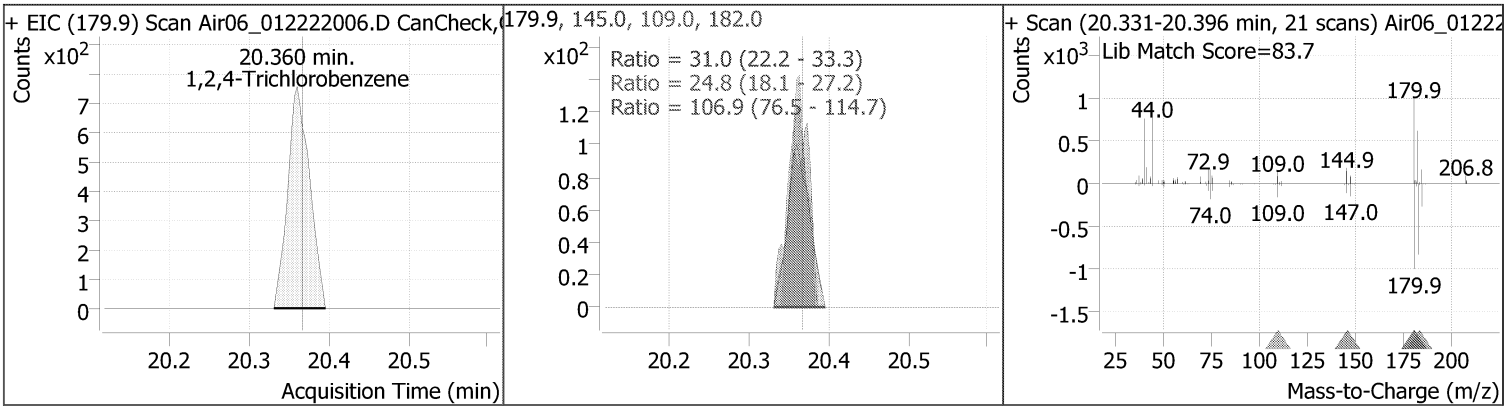

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.0073 | 17.41 | 0.00 | 1017 | 148.0 | 75.9 | 51.6 | 77.3 |
| | | | | | 111.0 | 45.3 | 31.0 | 46.4 |
| | | | | | 75.0 | 38.5 | 24.7 | 37.0 |
| | | | | | 150.0 | 3.3 | 8.4 | 12.6 |



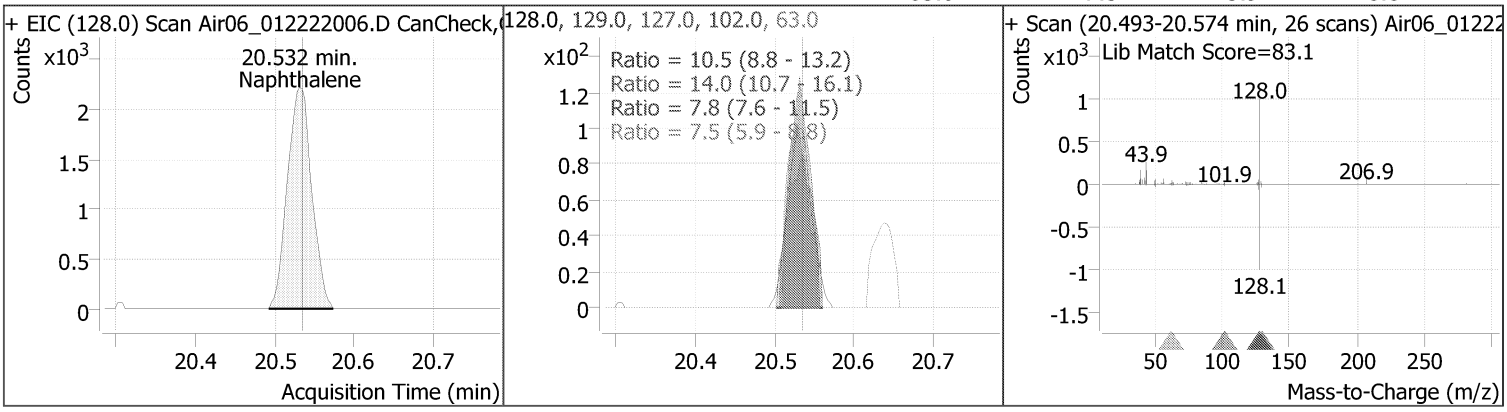
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.0062 | 17.86 | 0.00 | 839 | 148.0 | 71.5 | 51.5 | 77.3 |
| | | | | | 111.0 | 35.0 | 33.2 | 49.9 |
| | | | | | 75.0 | 25.3 | 24.5 | 36.7 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0130 | 20.36 | -0.01 | 1451 | 182.0 | 106.9 | 76.5 | 114.7 |
| | | | | | 145.0 | 31.0 | 22.2 | 33.3 |
| | | | | | 109.0 | 24.8 | 18.1 | 27.2 |

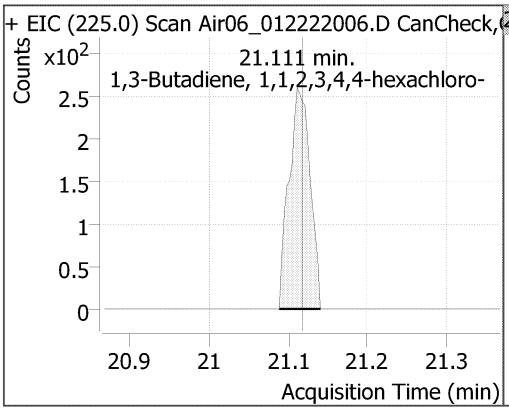


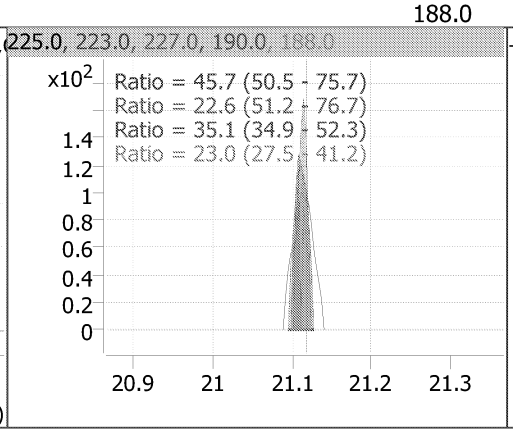

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.0206 | 20.53 | -0.01 | 4755 | 127.0 | 14.0 | 10.7 | 16.1 |
| | | | | | 129.0 | 10.5 | 8.8 | 13.2 |
| | | | | | 102.0 | 7.8 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.5 | 5.9 | 8.8 |

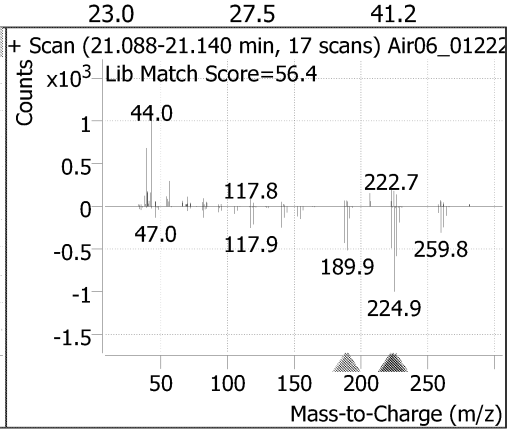


# Quantitation Results Report (Not Reviewed)

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0040 | 21.11 | -0.01 | 482 | 227.0 | 22.6 | 51.2 | 76.7 |
| | | | | | 223.0 | 45.7 | 50.5 | 75.7 |
| | | | | | 190.0 | 35.1 | 34.9 | 52.3 |
| | | | | | 188.0 | 23.0 | 27.5 | 41.2 |



# Library Search Results - NonTarget Hits with Details

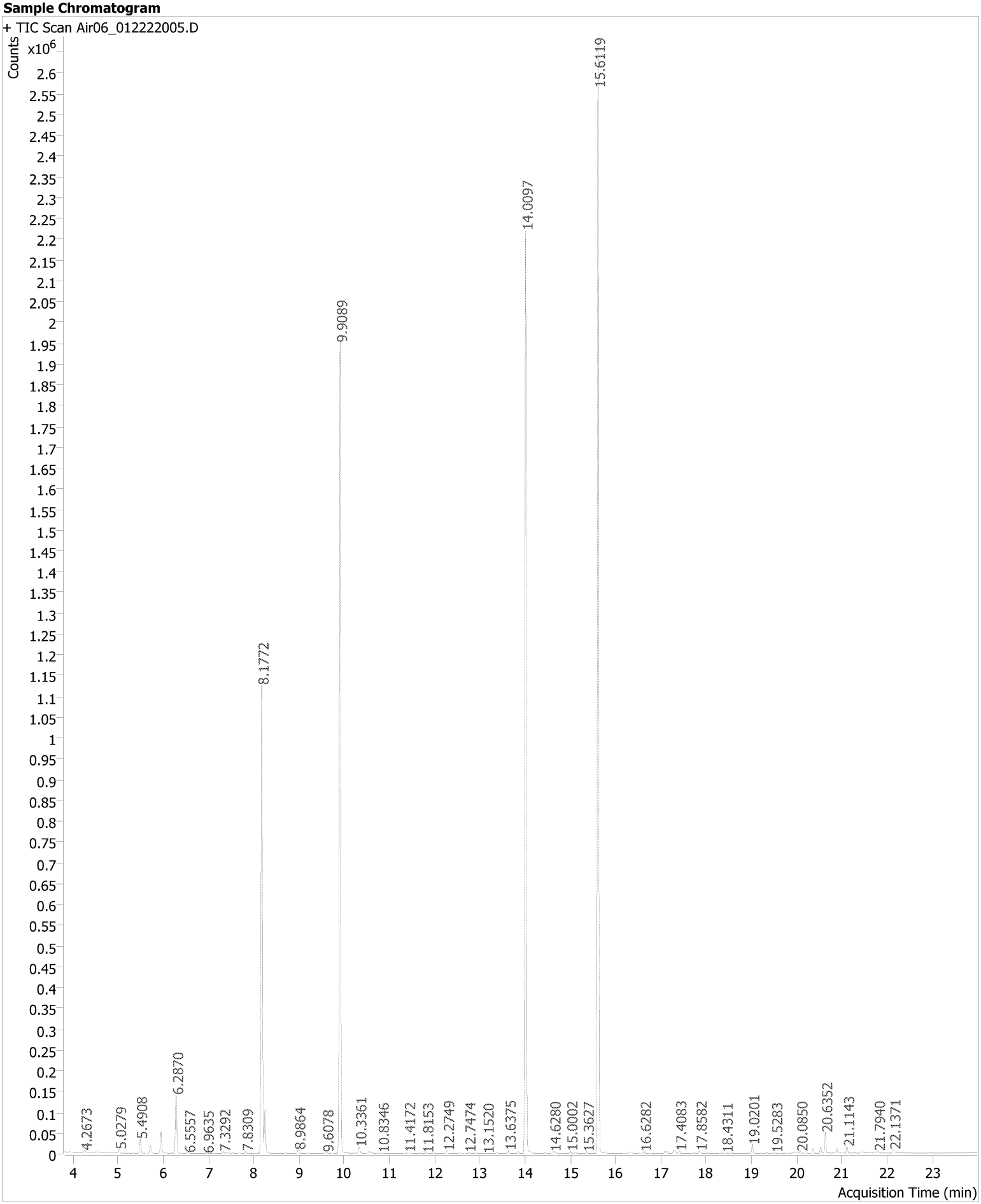
Agilent Technologies

| | | | |
|---|---|---|---|
| **Batch Path** | D:\MassHunter\GCMS\1\data\2022\220122 | | |
| **Analysis File Name** | $2022 Jan 22 2126 TO15_220105.m$.uaf | | |
| **Analyst Name** | 003AIRMS06 | **Analysis Time** | 1/26/2022 1:15:22 PM |
| **File Name** | Air06_012222005.D | **Path Name** | D:\MassHunter\GCMS\1\data\2022\220122 |
| **Sample Name** | BLANK,QC967924,282327,PDF:1,C10710 | **Type** | Sample |
| **Acq. Method File** | TO15_Acq_013120_1 | **Acq. Method Path** | D:\MassHunter\GCMS\1\methods\ |
| **Acq. Date-Time** | 1/22/2022 2:21:35 PM | **Acq. Operator** | DJL/LJB/ZNZ |
| **Instrument Name** | Air-MS-06 | **Dil.** | 1 |

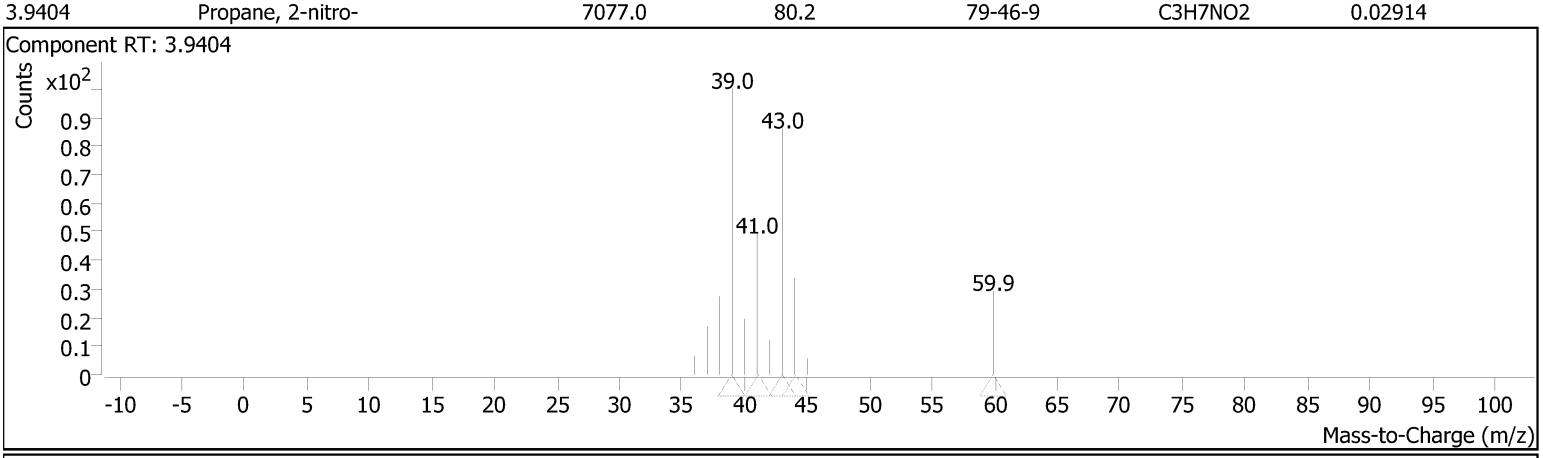
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9404 | Propane, 2-nitro- | 79-46-9 | C3H7NO2 | 7077.0 | 80.2 | 0.02914 |
| 3.9922 | Dichlorodifluoromethane | 75-71-8 | CCl2F2 | 2737.2 | 78.8 | 0.01127 |
| 4.2673 | Glycidol | 556-52-5 | C3H6O2 | 11550.2 | 75.9 | 0.04756 |
| 4.5521 | Butane | 106-97-8 | C4H10 | 5788.9 | 89.4 | 0.02384 |
| 5.0279 | Dimethyl ether | 115-10-6 | C2H6O | 20462.5 | 84.8 | 0.08426 |
| 5.3613 | 4-Penten-2-ol, 3-methyl- | 1569-59-1 | C6H12O | 917.4 | 71.0 | 0.003778 |
| 5.4908 | Acetone | 67-64-1 | C3H6O | 74813.2 | 96.5 | 0.3081 |
| 5.6300 | Trichloromonofluoromethane | 75-69-4 | CCl3F | 3179.1 | 87.8 | 0.01309 |
| 5.7206 | Isopropyl Alcohol | 67-63-0 | C3H8O | 43618.9 | 96.6 | 0.1796 |
| 5.9536 | Pentane | 109-66-0 | C5H12 | 113799.8 | 98.7 | 0.4686 |
| 6.0410 | 1,4-Pentadiene | 591-93-5 | C5H8 | 4700.0 | 86.8 | 0.01935 |
| 6.2870 | Methylene chloride | 75-09-2 | CH2Cl2 | 310162.2 | 99.1 | 1.277 |
| 6.4035 | Propene | 115-07-1 | C3H6 | 1867.5 | 81.9 | 0.00769 |
| 6.5557 | Ethane, 1,1,2-trichloro-1,2,2-trifluoro- | 76-13-1 | C2Cl3F3 | 4857.6 | 75.3 | 0.02 |
| 6.9635 | 1-Propanol | 71-23-8 | C3H8O | 1975.0 | 89.8 | 0.008133 |
| 7.1253 | Ethene, 1,1-dichloro- | 75-35-4 | C2H2Cl2 | 1180.2 | 71.2 | 0.00486 |
| 7.3292 | Silanol, trimethyl- | 1066-40-6 | C3H10OSi | 8660.6 | 94.4 | 0.03566 |
| 7.4263 | Guanidine, methyl- | 471-29-4 | C2H7N3 | 5466.8 | 77.7 | 0.02251 |
| 7.6853 | 2-Butanone | 78-93-3 | C4H8O | 4267.4 | 91.4 | 0.01757 |
| 7.8309 | Pentane, 3-methyl- | 96-14-0 | C6H14 | 12145.7 | 92.9 | 0.05001 |
| 8.0381 | Ethene, 1,1-dichloro- | 75-35-4 | C2H2Cl2 | 1762.3 | 82.3 | 0.007257 |
| 8.1772 | Methane, bromochloro- | 74-97-5 | CH2BrCl | 2428525.2 | 98.8 | 10 |
| 8.2484 | CH3C(O)CH2CH2OH | 590-90-9 | C4H8O2 | 220940.5 | 84.8 | 0.9098 |
| 8.7080 | Tetrahydrofuran | 109-99-9 | C4H8O | 3785.1 | 92.2 | 0.01559 |
| 8.9864 | Cyclopentane, methyl- | 96-37-7 | C6H12 | 21723.5 | 92.5 | 0.08945 |
| 9.2000 | Ethane, 1,1,1-trichloro- | 71-55-6 | C2H3Cl3 | 2547.6 | 79.9 | 0.006401 |
| 9.6078 | Benzene | 71-43-2 | C6H6 | 10685.7 | 79.2 | 0.02685 |
| 9.7406 | Carbon Tetrachloride | 56-23-5 | CCl4 | 2409.0 | 92.8 | 0.006053 |
| 9.9089 | Benzene, 1,4-difluoro- | 540-36-3 | C6H4F2 | 3979668.7 | 99.4 | 10 |
| 10.2261 | Pentanal | 110-62-3 | C5H10O | 2244.1 | 80.6 | 0.005639 |
| 10.3361 | Benzene, 1,4-difluoro- | 540-36-3 | C6H4F2 | 36286.6 | 96.4 | 0.09118 |
| 10.5530 | Trichloroethylene | 79-01-6 | C2HCl3 | 13089.8 | 94.1 | 0.03289 |
| 10.6145 | t-Butyl nitrite | 540-80-7 | C4H9NO2 | 8271.0 | 80.9 | 0.02078 |
| 10.7310 | 2-Butenoic acid, methyl ester | 18707-60-3 | C5H8O2 | 2339.0 | 84.2 | 0.005877 |
| 10.8346 | Heptane | 142-82-5 | C7H16 | 4282.7 | 93.7 | 0.01076 |
| 11.3362 | 1-Propene, 1,3-dichloro-, (E)- | 10061-02-6 | C3H4Cl2 | 2402.0 | 83.6 | 0.006036 |
| 11.4172 | Methyl Isobutyl Ketone | 108-10-1 | C6H12O | 7394.2 | 92.6 | 0.01858 |
| 11.8153 | 1-Propene, 1,3-dichloro-, (Z)- | 10061-01-5 | C3H4Cl2 | 2801.7 | 84.6 | 0.00704 |
| 11.9868 | Ethane, 1,1,2-trichloro- | 79-00-5 | C2H3Cl3 | 2528.0 | 78.7 | 0.00553 |
| 12.2749 | Cyclobutene, 2-propenylidene- | 52097-85-5 | C7H8 | 12882.9 | 94.5 | 0.02818 |
| 12.5468 | 2-Hexanone | 591-78-6 | C6H12O | 5335.3 | 85.9 | 0.01167 |
| 12.6665 | Bromochloronitromethane | 135531-25-8 | CHBrClNO2 | 2400.7 | 84.0 | 0.005252 |
| 12.7474 | Hexanal | 66-25-1 | C6H12O | 6109.1 | 90.9 | 0.01336 |
| 12.9157 | Ethane, 1,2-dibromo- | 106-93-4 | C2H4Br2 | 2553.6 | 79.5 | 0.005586 |
| 13.1520 | 1-Butanamine | 109-73-9 | C4H11N | 901.6 | 72.6 | 0.001972 |
| 13.3786 | Tetrachloroethylene | 127-18-4 | C2Cl4 | 4969.2 | 94.7 | 0.01087 |
| 13.6375 | Cyclotrisiloxane, hexamethyl- | 541-05-9 | C6H18O3Si3 | 14965.9 | 91.1 | 0.03274 |
| 13.8479 | Benzene, 1-chloro-3-fluoro- | 625-98-9 | C6H4ClF | 7365.2 | 89.0 | 0.01611 |
| 14.0097 | Chlorobenzene-d5 | 3114-55-4 | C6D5Cl | 4571499.3 | 95.8 | 10 |
| 14.1101 | Benzene, 1-chloro-2-(trifluoromethyl)- | 88-16-4 | C7H4ClF3 | 10082.6 | 83.1 | 0.02206 |
| 14.4435 | Ethylbenzene | 100-41-4 | C8H10 | 5448.7 | 91.0 | 0.01192 |
| 14.6280 | o-Xylene | 95-47-6 | C8H10 | 15368.3 | 94.8 | 0.03362 |
| 14.6927 | Dibromonitromethane | 598-91-4 | CHBr2NO2 | 4345.4 | 86.3 | 0.009505 |
| 14.8157 | Propane, 2-methyl-1-nitro- | 625-74-1 | C4H9NO2 | 634.6 | 82.4 | 0.001388 |
| 15.0002 | 1,3,5,7-Cyclooctatetraene | 629-20-9 | C8H8 | 13070.8 | 88.4 | 0.02859 |
| 15.1199 | o-Xylene | 95-47-6 | C8H10 | 11262.7 | 84.8 | 0.02464 |
| 15.3627 | Octane | 111-65-9 | C8H18 | 8286.9 | 89.8 | 0.01813 |
| 15.6119 | Benzene, 1-bromo-3-fluoro- | 1073-06-9 | C6H4BrF | 5358816.3 | 98.1 | 11.72 |
| 15.7705 | Benzene, (1-methylethyl)- | 98-82-8 | C9H12 | 11141.8 | 89.8 | 0.02437 |

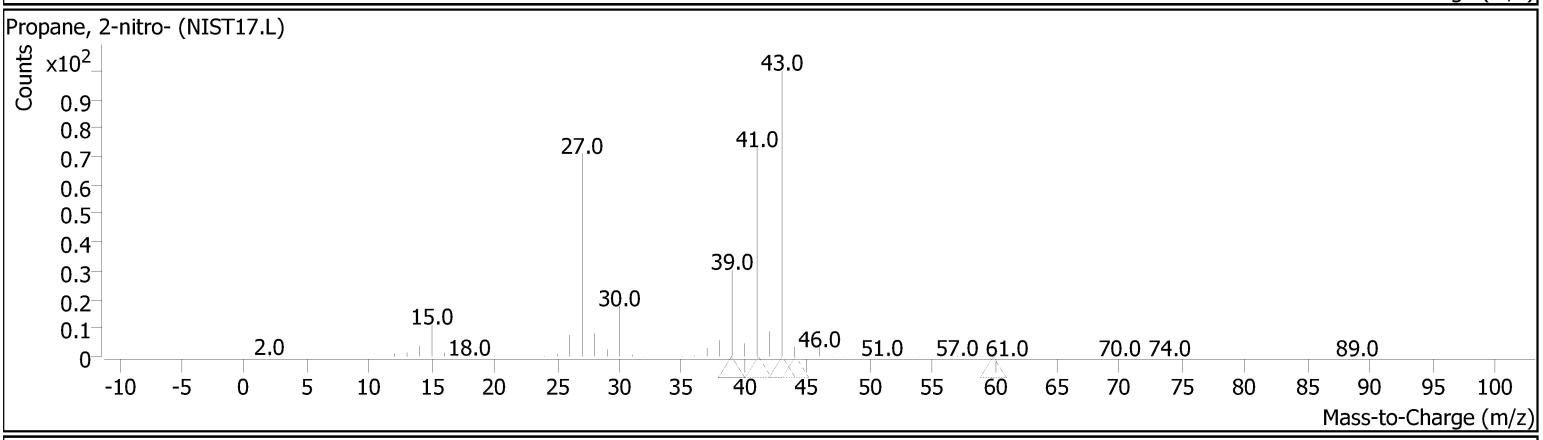
| Component RT | Compound Name | CAS# | Formula | Component Area | Match Factor | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1848 | Benzaldehyde | 100-52-7 | C7H6O | 2176.9 | 80.9 | 0.004762 |
| 16.3175 | Benzene, 1-chloro-3-methyl- | 108-41-8 | C7H7Cl | 6686.9 | 94.4 | 0.01463 |
| 16.3596 | Benzene, propyl- | 103-65-1 | C9H12 | 7328.5 | 85.3 | 0.01603 |
| 16.5344 | Benzene, (1-methylethyl)- | 98-82-8 | C9H12 | 7477.4 | 92.6 | 0.01636 |
| 16.6282 | Mesitylene | 108-67-8 | C9H12 | 10555.4 | 92.6 | 0.02309 |
| 16.7739 | Butane, 2,2-dimethyl- | 75-83-2 | C6H14 | 977.4 | 73.9 | 0.002138 |
| 17.0911 | Cyclotetrasiloxane, octamethyl- | 556-67-2 | C8H24O4Si4 | 9692.8 | 92.6 | 0.0212 |
| 17.1364 | Mesitylene | 108-67-8 | C9H12 | 11567.6 | 90.4 | 0.0253 |
| 17.4083 | Benzene, 1,2-dichloro- | 95-50-1 | C6H4Cl2 | 12650.9 | 94.4 | 0.02767 |
| 17.7287 | Butane, 2,2-dimethyl- | 75-83-2 | C6H14 | 3099.4 | 85.7 | 0.00678 |
| 17.8582 | Benzene, 1,2-dichloro- | 95-50-1 | C6H4Cl2 | 12826.2 | 91.6 | 0.02806 |
| 18.3210 | Oxalic acid, butyl propyl ester | 1000309-25-6 | C9H16O4 | 1467.4 | 91.2 | 0.00321 |
| 18.3728 | Pentane, 2-methyl- | 107-83-5 | C6H14 | 1688.4 | 80.1 | 0.003693 |
| 18.4311 | Pentane, 2,2,3,4-tetramethyl- | 1186-53-4 | C9H20 | 3157.3 | 80.2 | 0.006906 |
| 18.5573 | Pentane, 2,2,3,4-tetramethyl- | 1186-53-4 | C9H20 | 3109.5 | 79.2 | 0.006802 |
| 19.0201 | Undecane | 1120-21-4 | C11H24 | 40964.3 | 94.1 | 0.08961 |
| 19.4539 | Butane, 2,2-dimethyl- | 75-83-2 | C6H14 | 886.8 | 72.1 | 0.00194 |
| 19.5283 | Hexane, 3-methyl- | 589-34-4 | C7H16 | 3034.6 | 82.2 | 0.006638 |
| 19.6351 | Butane, 2,2,3-trimethyl- | 464-06-2 | C7H16 | 452.8 | 71.9 | 0.0009905 |
| 19.8034 | Cyclohexane, (1-methylethyl)- | 696-29-7 | C9H18 | 2598.1 | 75.1 | 0.005683 |
| 19.9458 | Octane, 4-ethyl- | 15869-86-0 | C10H22 | 8271.8 | 76.0 | 0.01809 |
| 20.0203 | Undecane, 4-methyl- | 2980-69-0 | C12H26 | 4617.7 | 79.2 | 0.0101 |
| 20.0850 | Decane, 3-methyl- | 13151-34-3 | C11H24 | 8959.7 | 84.2 | 0.0196 |
| 20.2048 | Undecane, 3-methyl- | 1002-43-3 | C12H26 | 6360.3 | 83.8 | 0.01391 |
| 20.3634 | Benzene, 1,3,5-trichloro- | 108-70-3 | C6H3Cl3 | 25425.5 | 94.1 | 0.05562 |
| 20.5317 | Azulene | 275-51-4 | C10H8 | 32270.2 | 94.6 | 0.07059 |
| 20.6352 | Dodecane | 112-40-3 | C12H26 | 93871.1 | 95.9 | 0.2053 |
| 20.8877 | Octane, 4-ethyl- | 15869-86-0 | C10H22 | 28310.6 | 92.8 | 0.06193 |
| 21.0139 | Pentanoic acid, 1,1-dimethylpropyl ester | 117421-32-6 | C10H20O2 | 4993.8 | 73.3 | 0.01092 |
| 21.1143 | 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 87-68-3 | C4Cl6 | 31107.4 | 93.5 | 0.06805 |
| 21.4412 | 5-Methyl-1-heptanol | 7212-53-5 | C8H18O | 9243.4 | 77.2 | 0.02022 |
| 21.5609 | Pentane, 3-ethyl-2-methyl- | 609-26-7 | C8H18 | 3614.3 | 76.2 | 0.007906 |
| 21.6224 | Hexane, 3,3-dimethyl- | 563-16-6 | C8H18 | 4920.6 | 83.0 | 0.01076 |
| 21.7325 | Heptane, 2,6-dimethyl- | 1072-05-5 | C9H20 | 4625.5 | 75.2 | 0.01012 |
| 21.7940 | Octane, 2,3,7-trimethyl- | 62016-34-6 | C11H24 | 9781.8 | 91.9 | 0.0214 |
| 22.1371 | Oxalic acid, allyl nonyl ester | 1000309-23-7 | C14H24O4 | 20140.2 | 90.1 | 0.04406 |

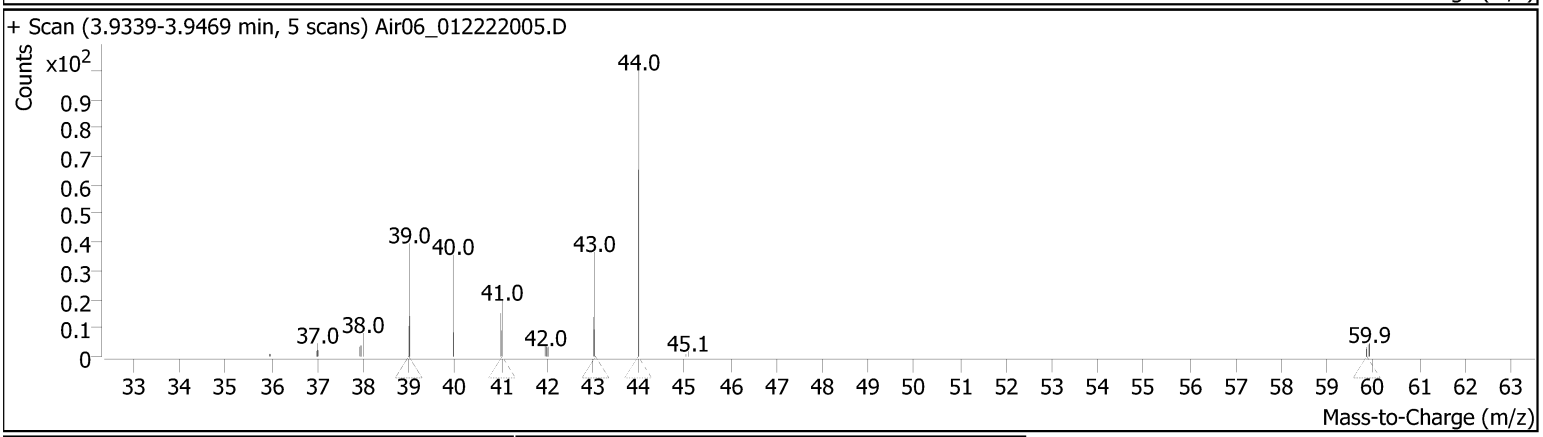
**Sample Chromatogram**

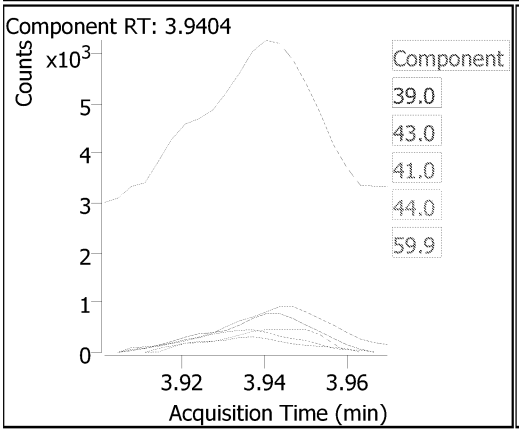


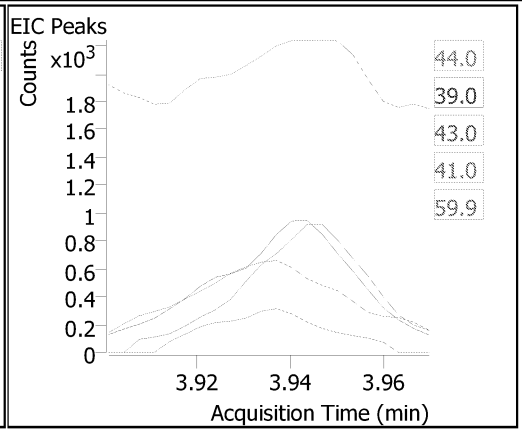
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9404 | Propane, 2-nitro- | 7077.0 | 80.2 | 79-46-9 | C3H7NO2 | 0.02914 |

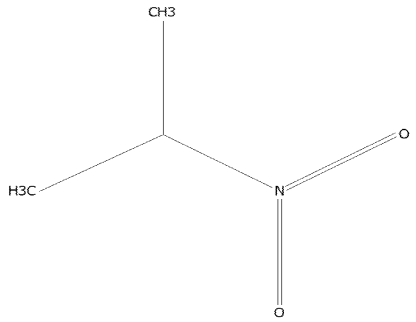


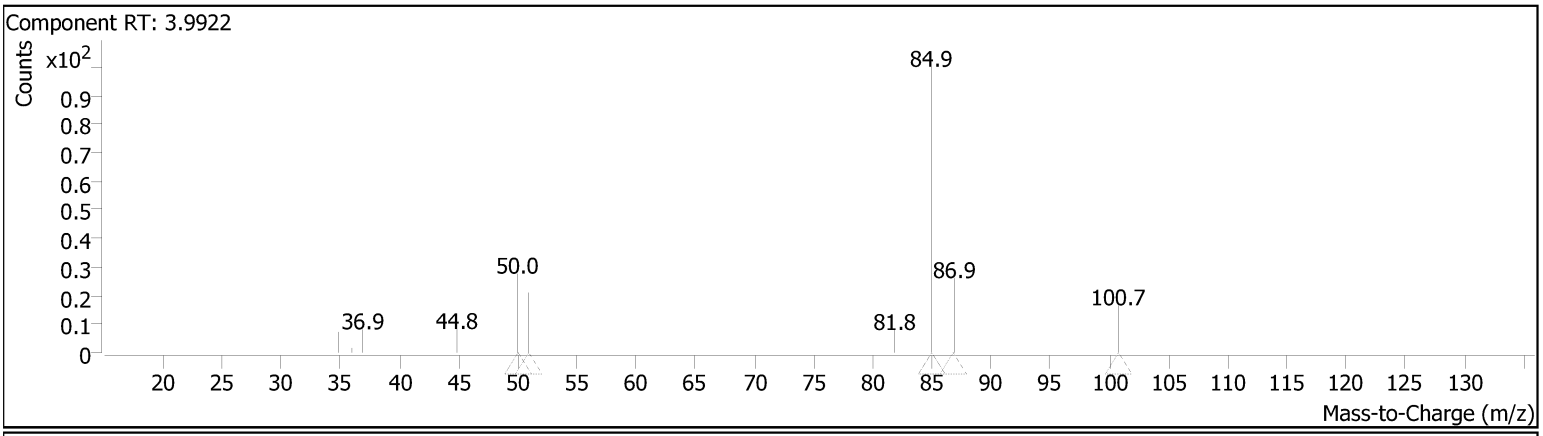



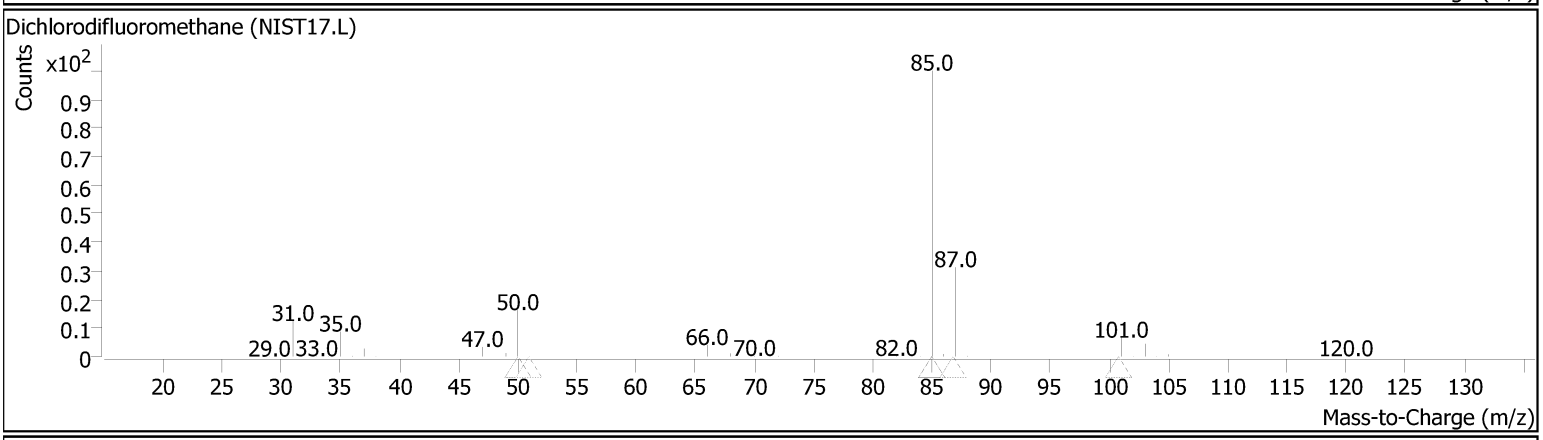



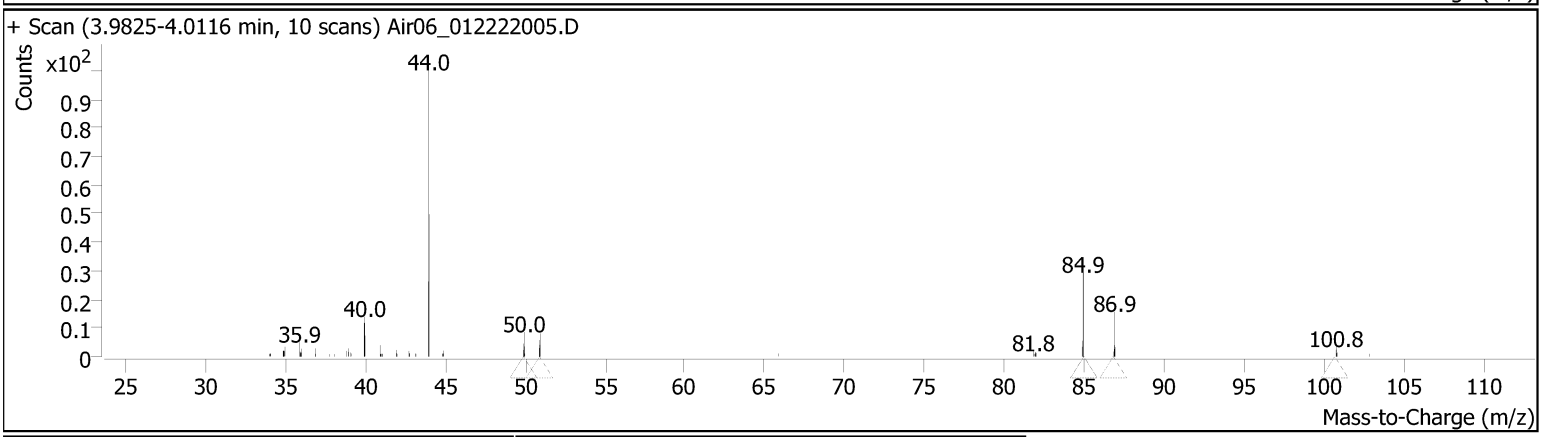



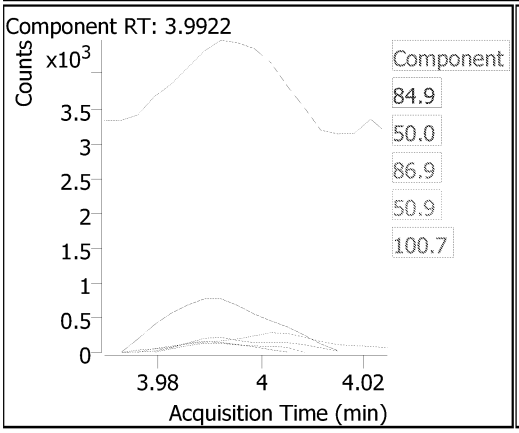



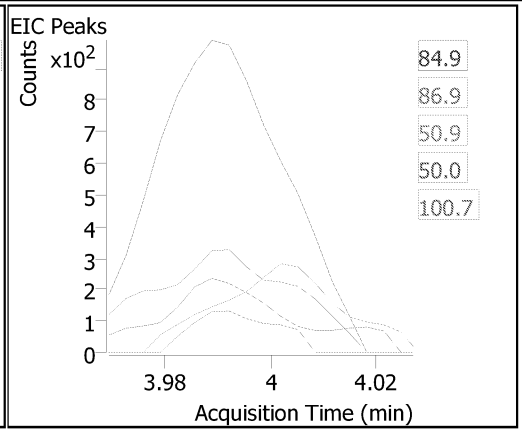
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 3.9922 | Dichlorodifluoromethane | 2737.2 | 78.8 | 75-71-8 | CCl2F2 | 0.01127 |

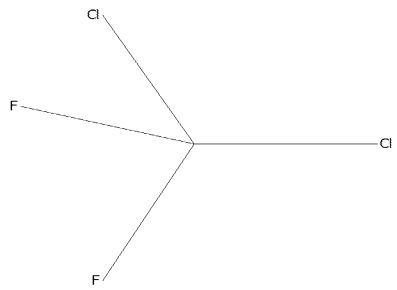


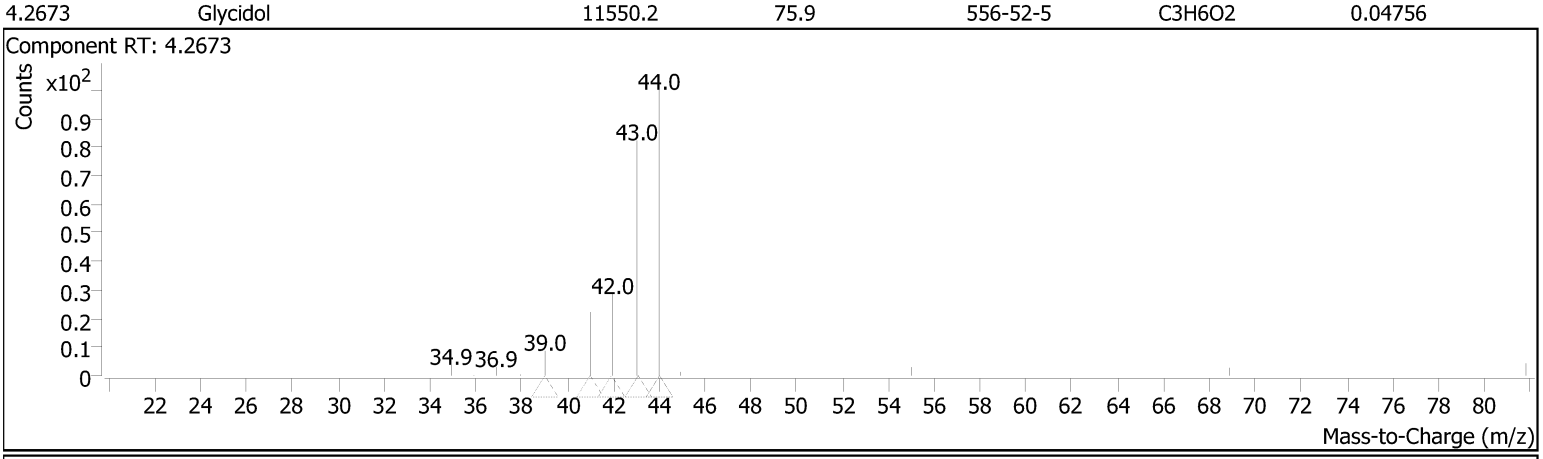



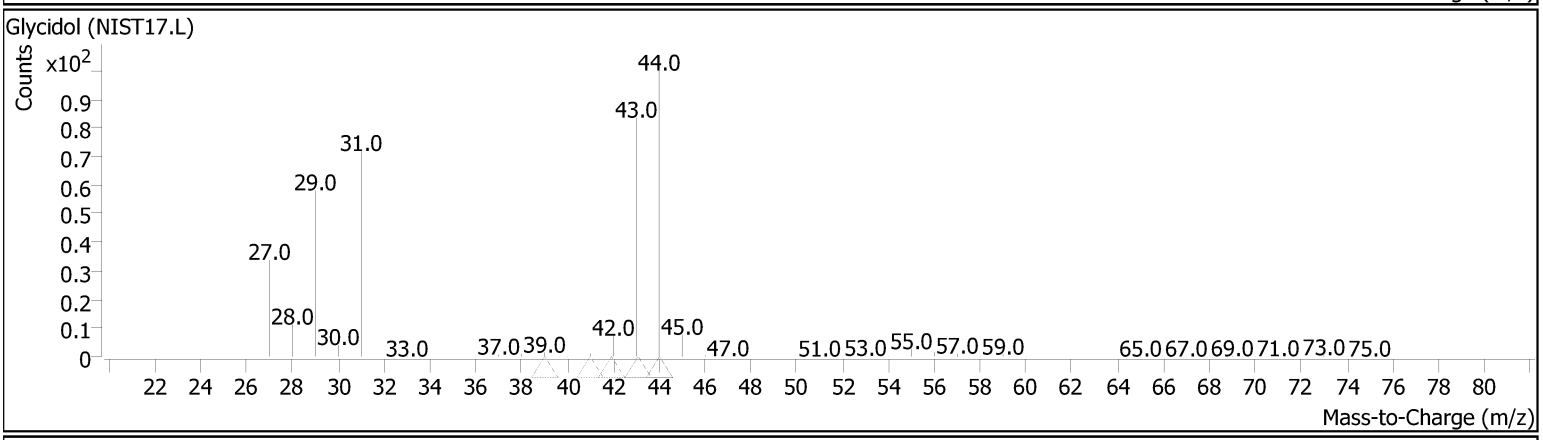



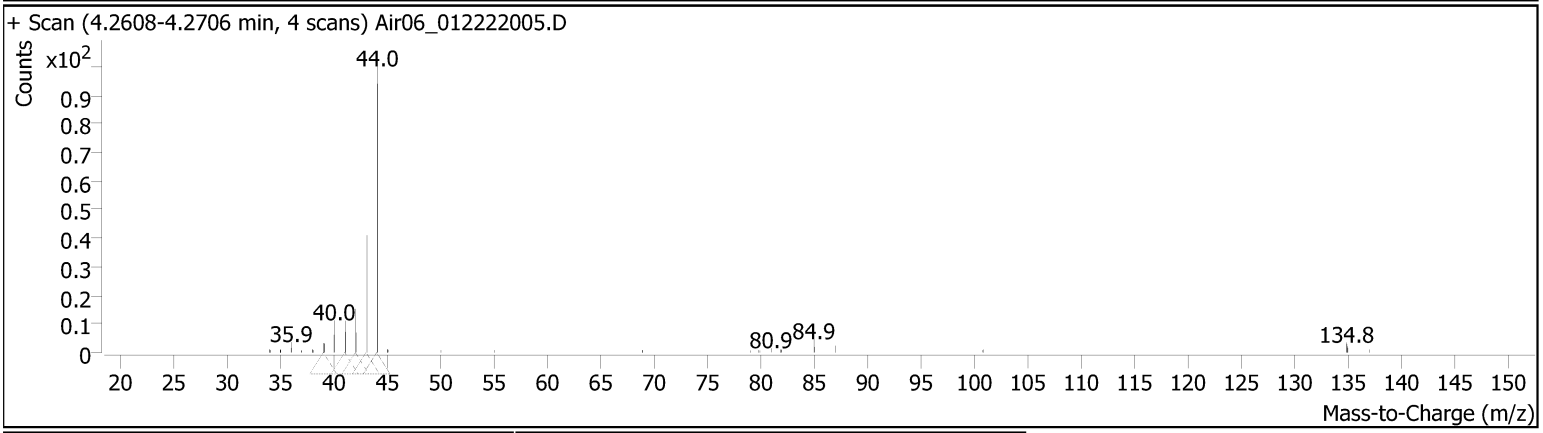



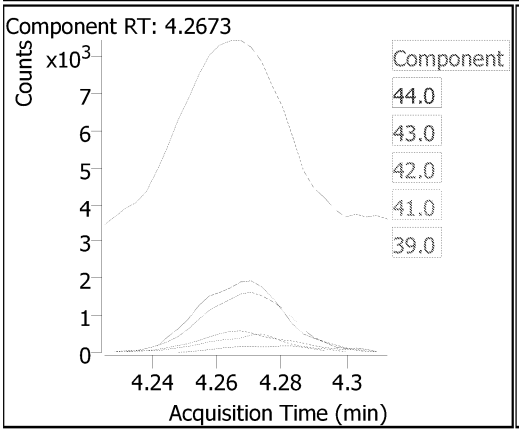



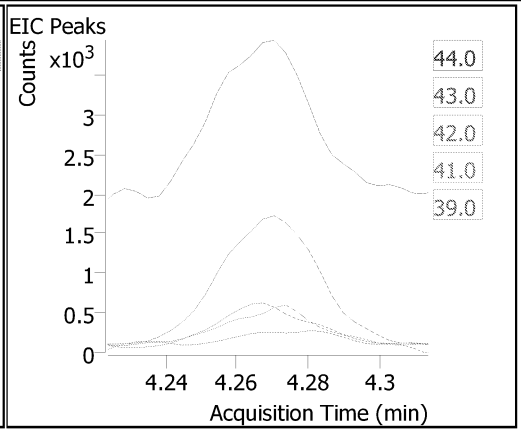
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.2673 | Glycidol | 11550.2 | 75.9 | 556-52-5 | C3H6O2 | 0.04756 |

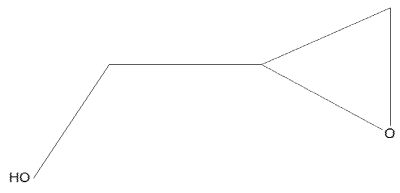


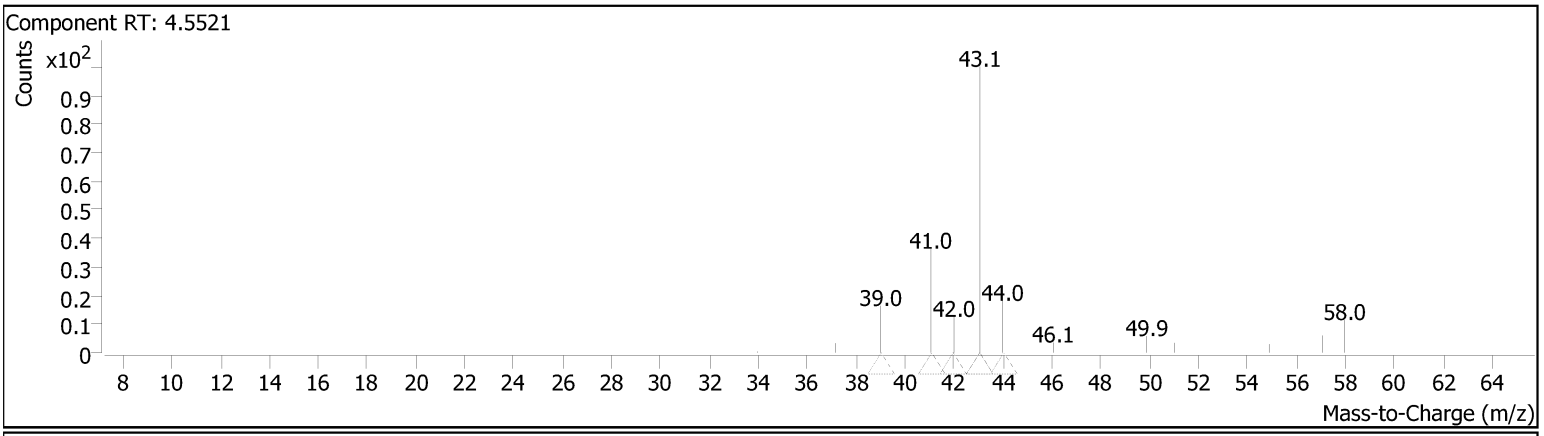



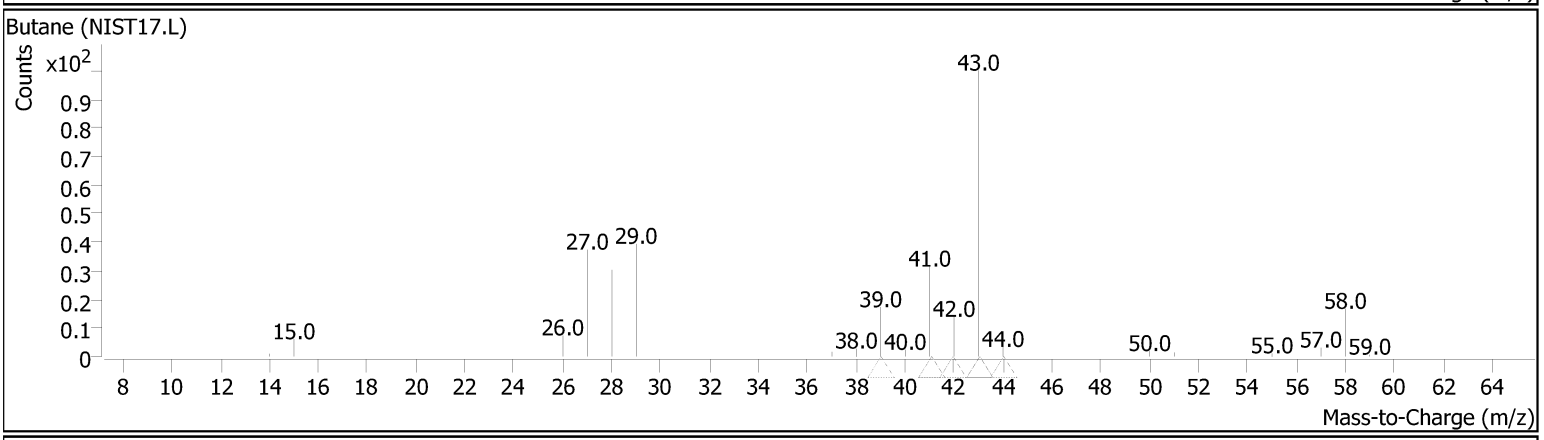



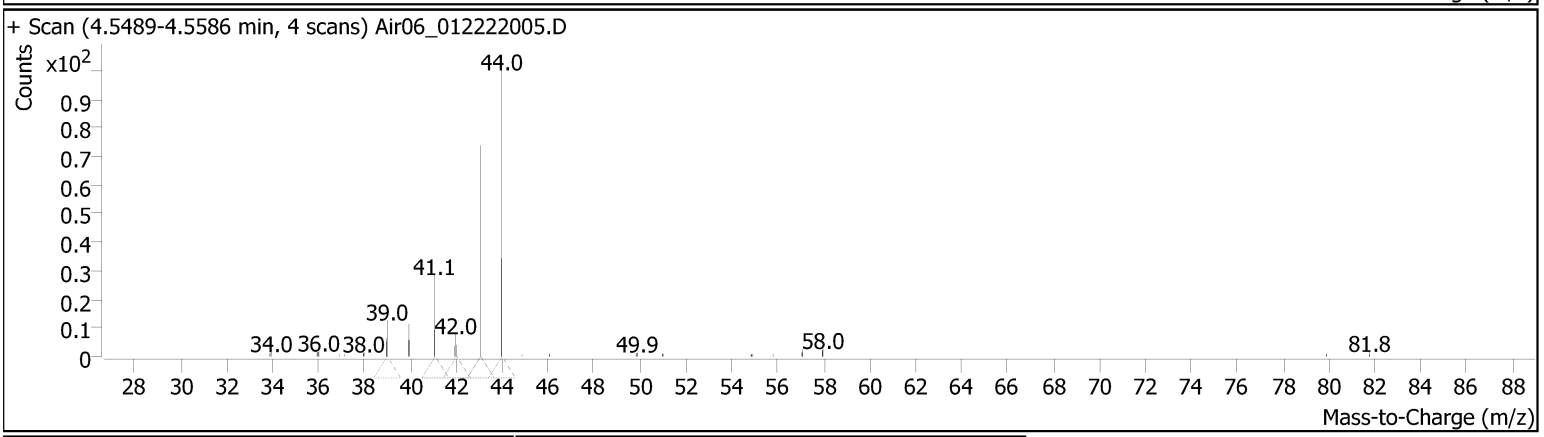



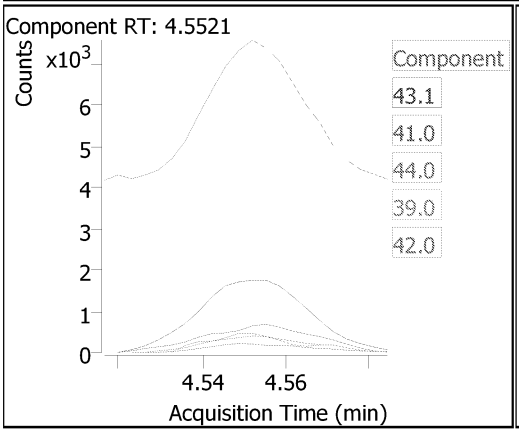



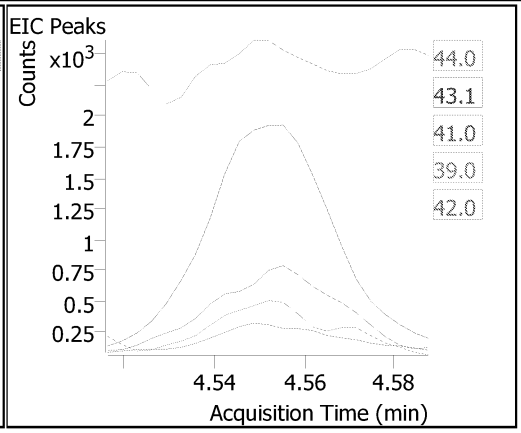
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 4.5521 | Butane | 5788.9 | 89.4 | 106-97-8 | C4H10 | 0.02384 |



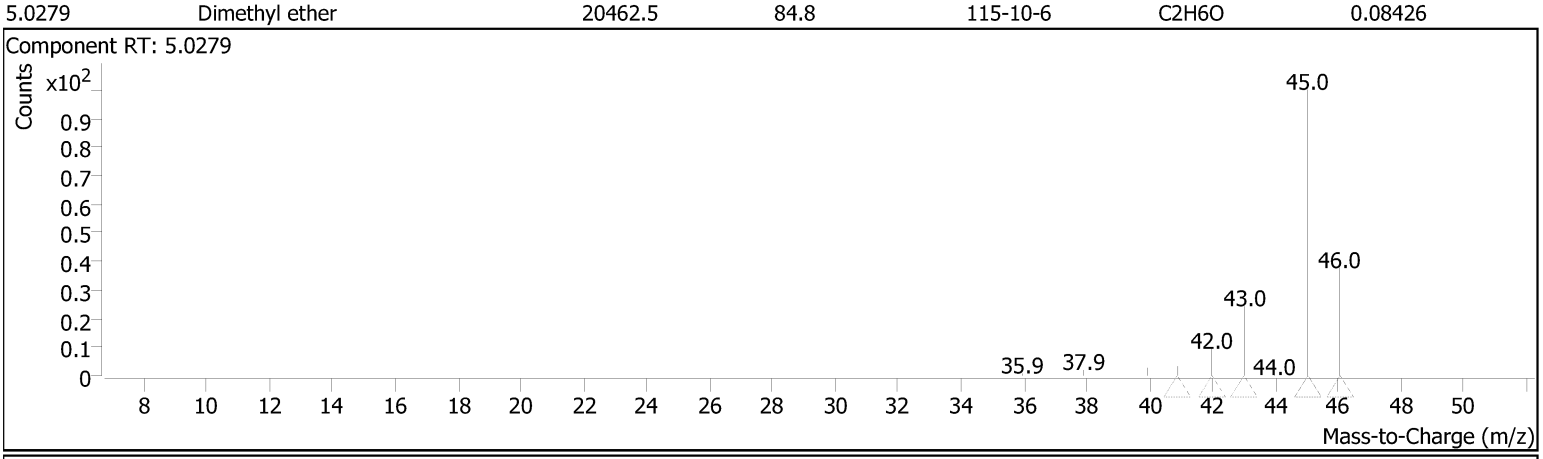



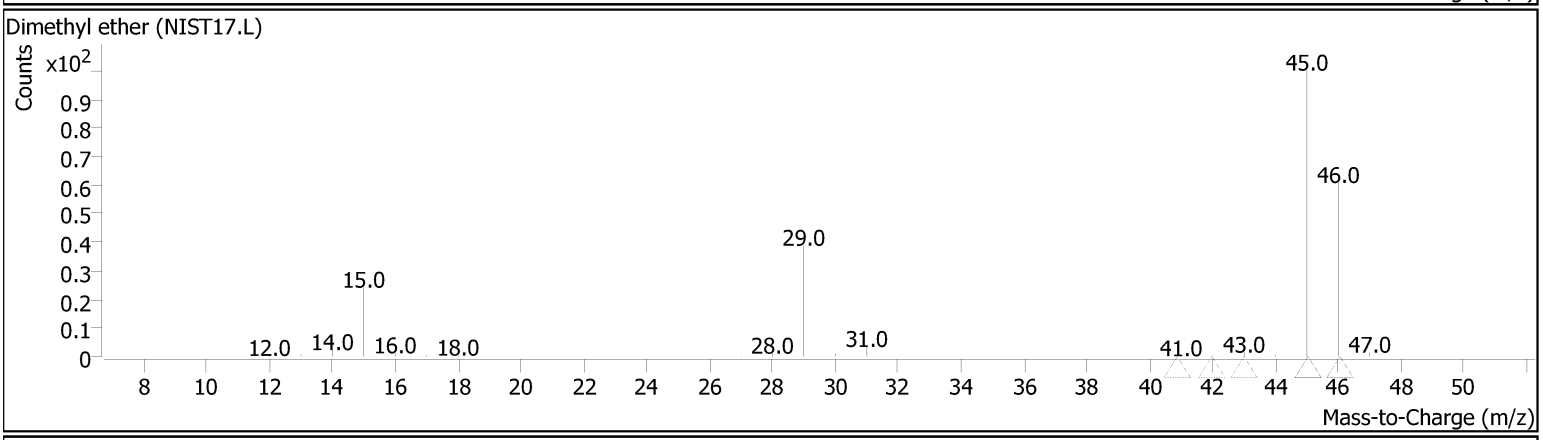



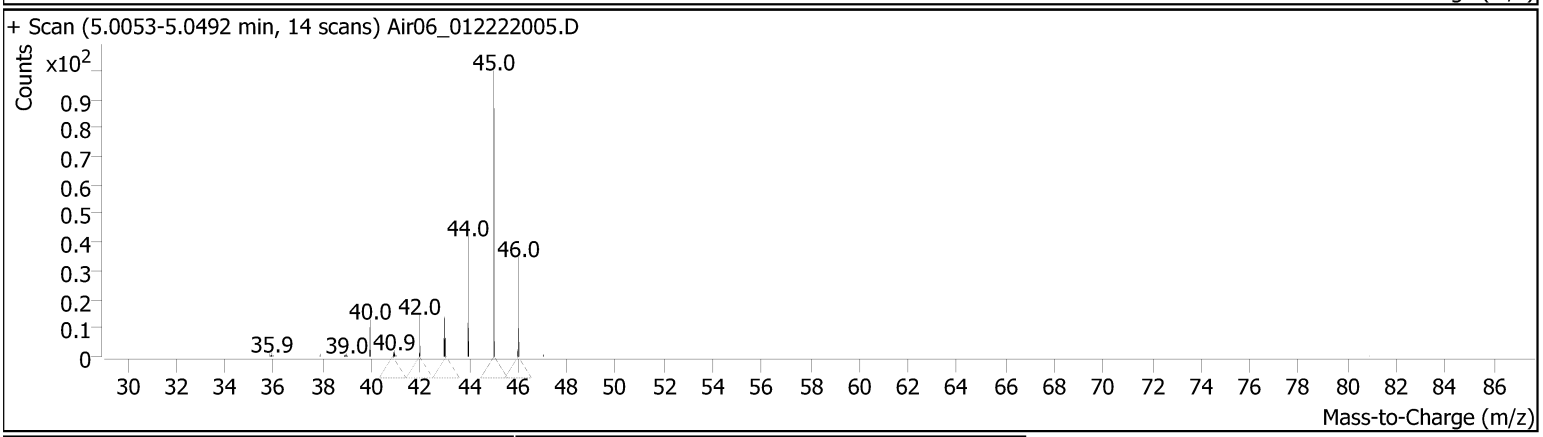



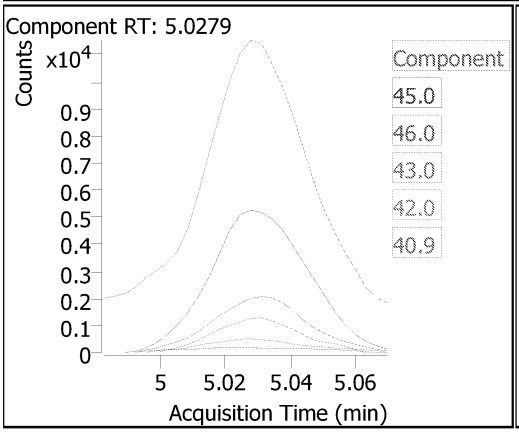


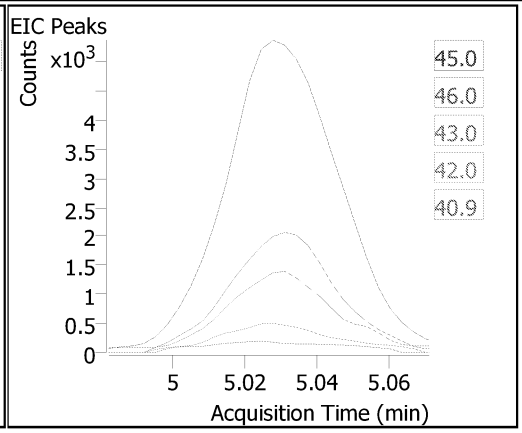

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.0279 | Dimethyl ether | 20462.5 | 84.8 | 115-10-6 | C2H6O | 0.08426 |

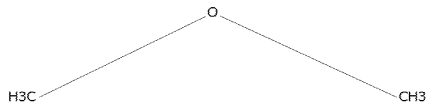


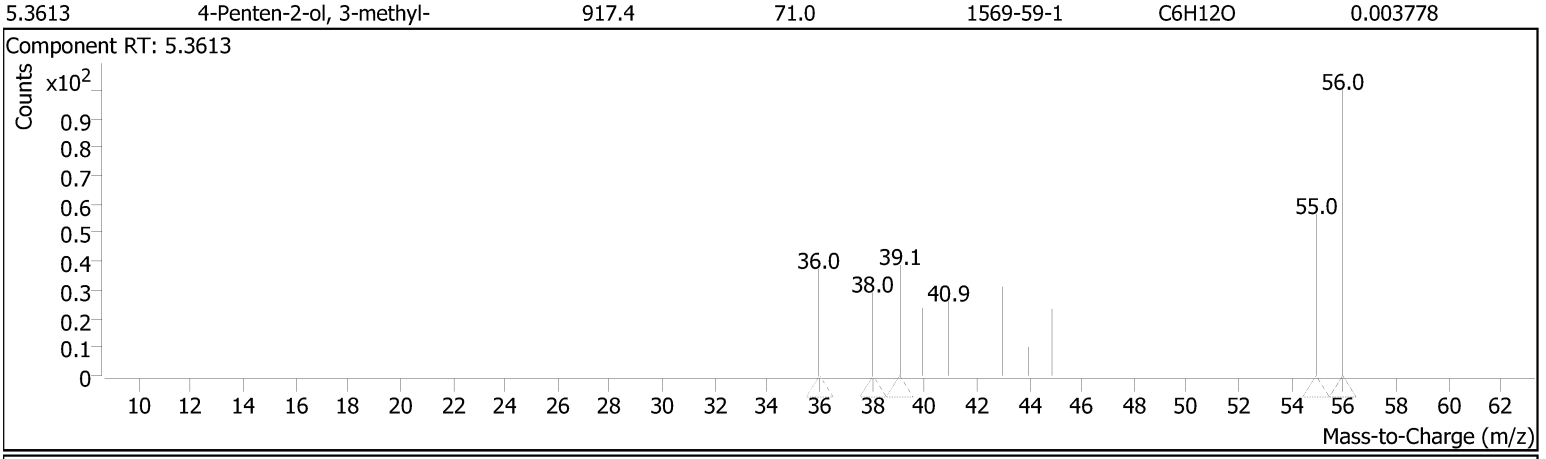



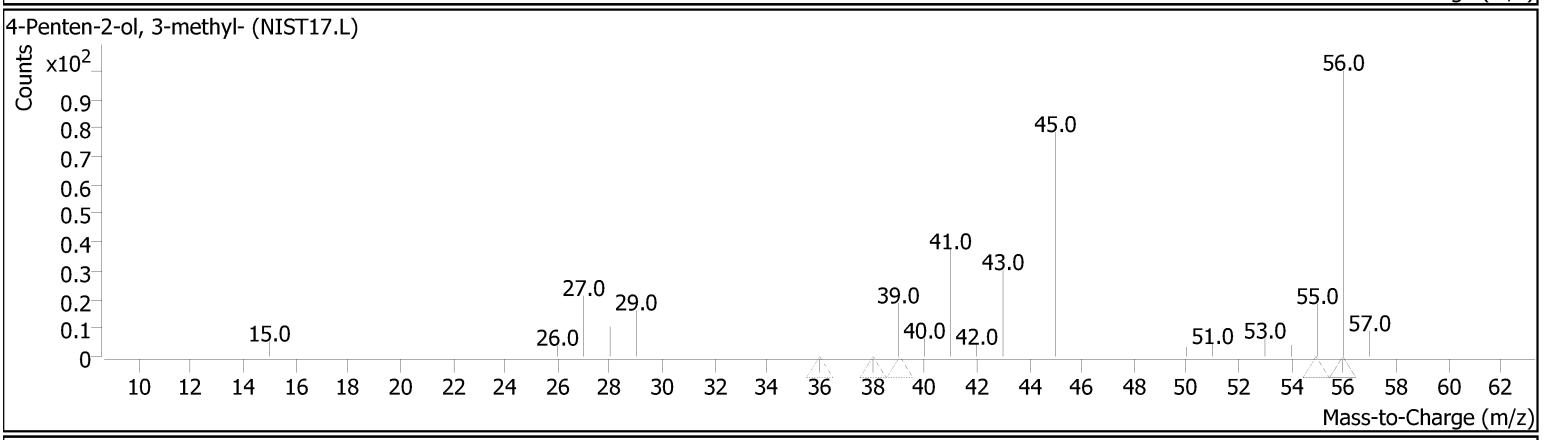



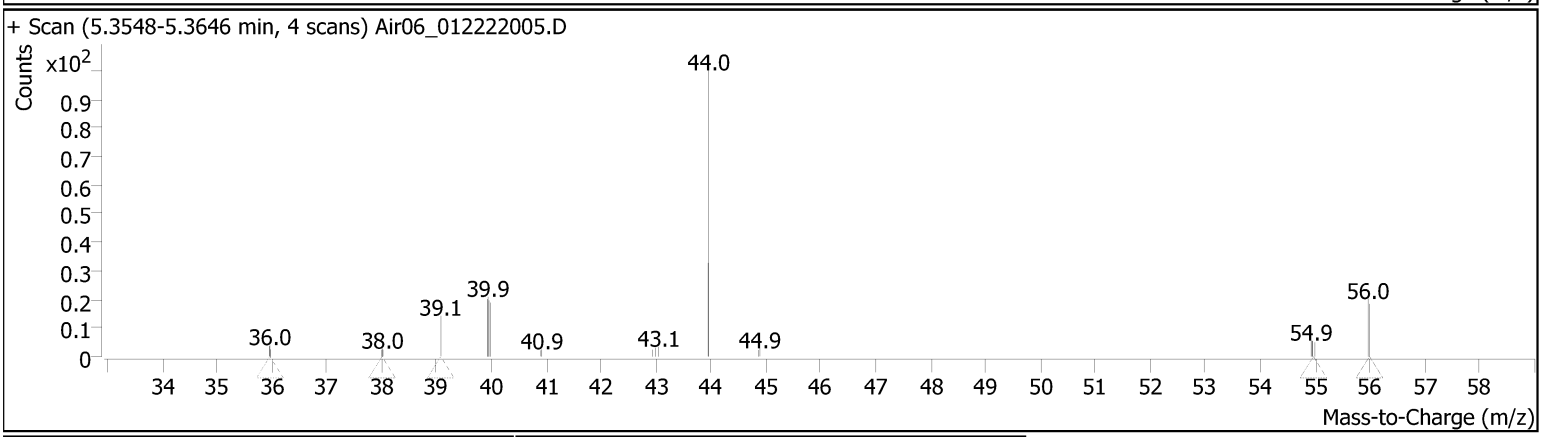



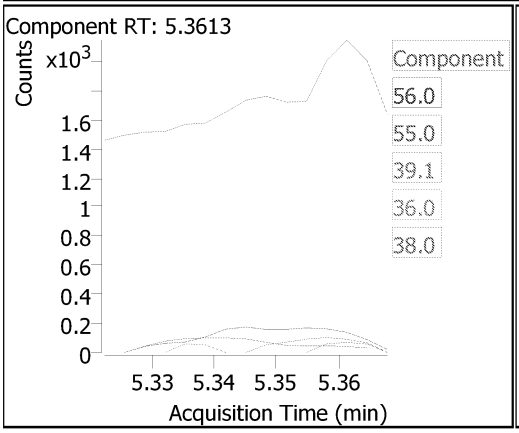



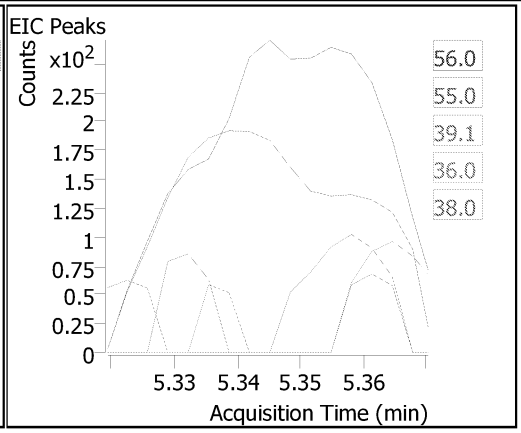
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.3613 | 4-Penten-2-ol, 3-methyl- | 917.4 | 71.0 | 1569-59-1 | C6H12O | 0.003778 |

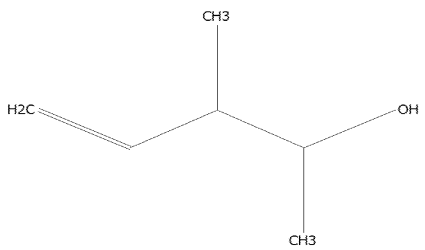


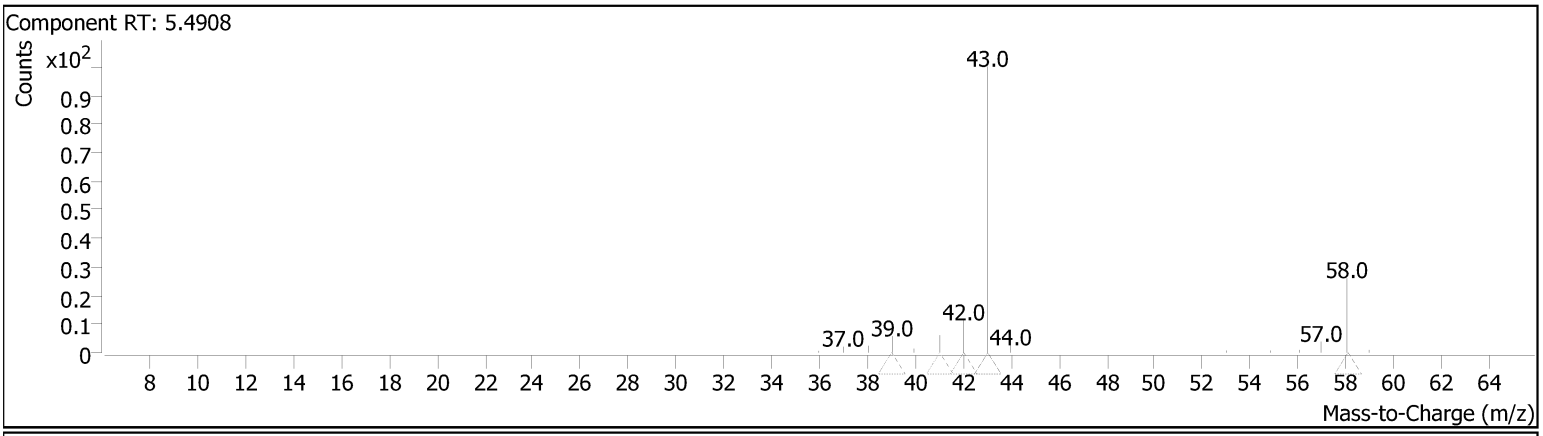



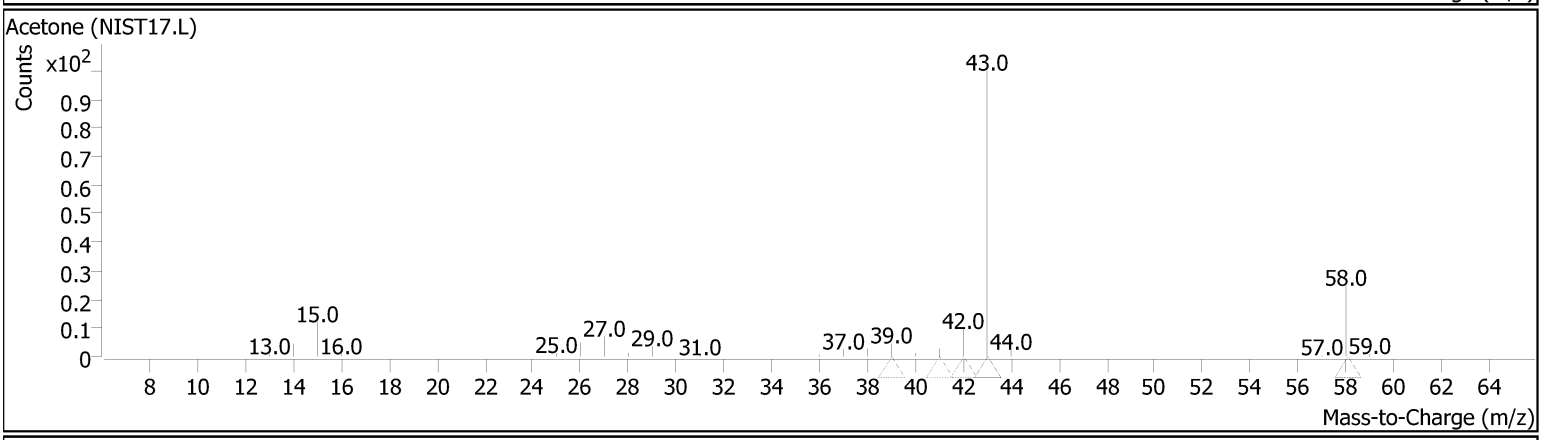



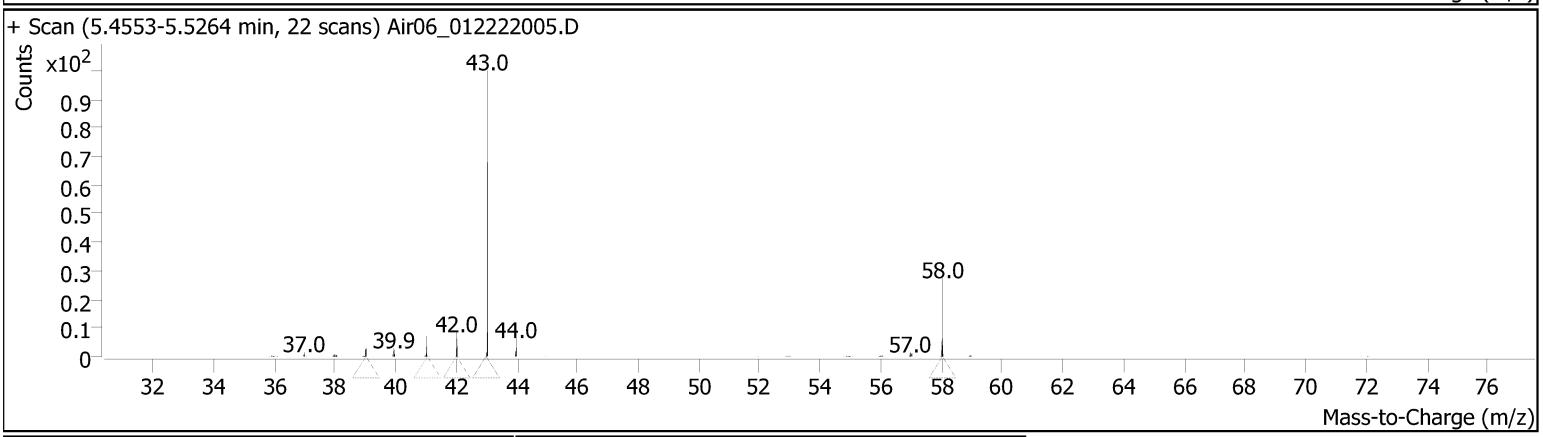



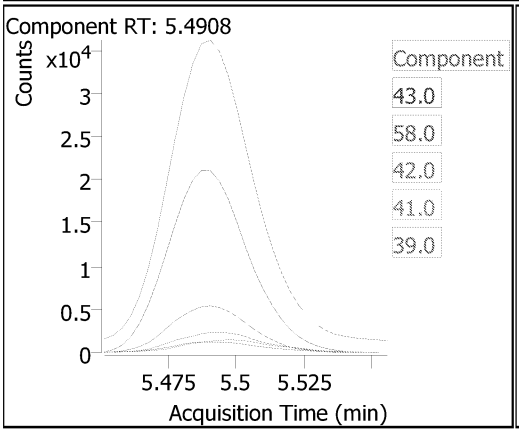



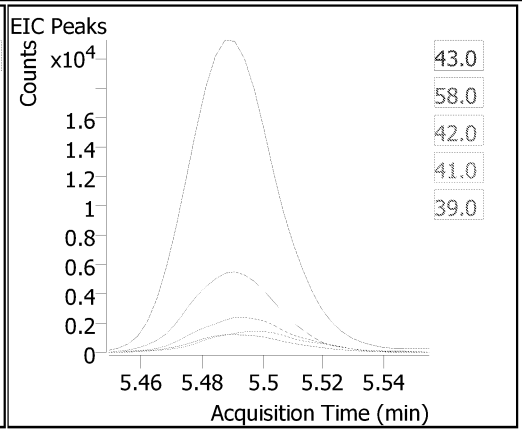
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.4908 | Acetone | 74813.2 | 96.5 | 67-64-1 | C3H6O | 0.3081 |

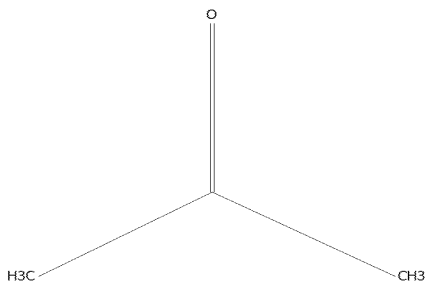


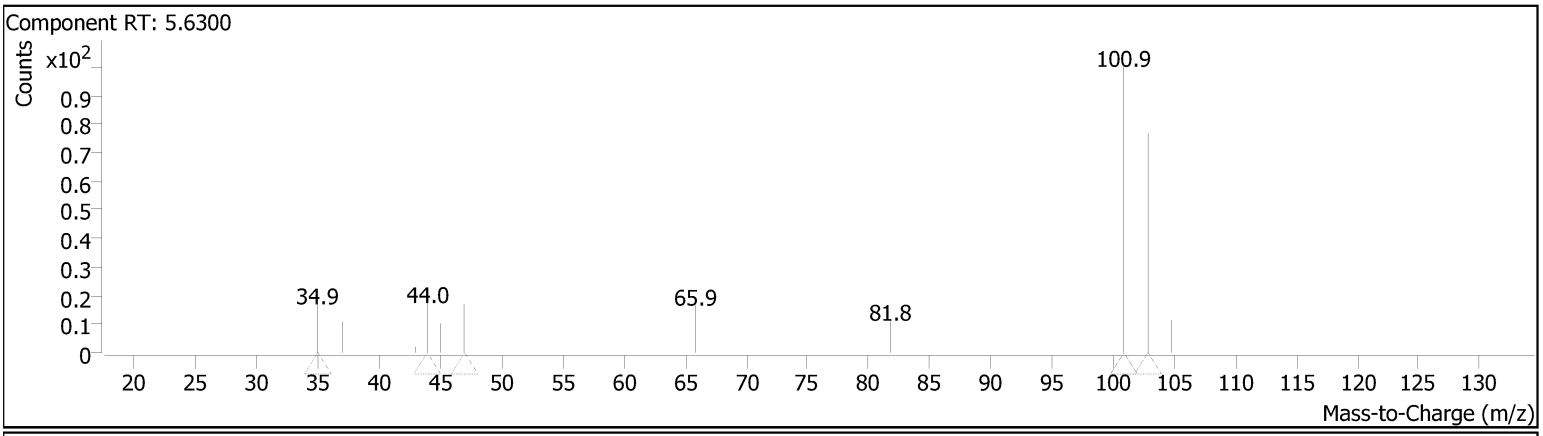



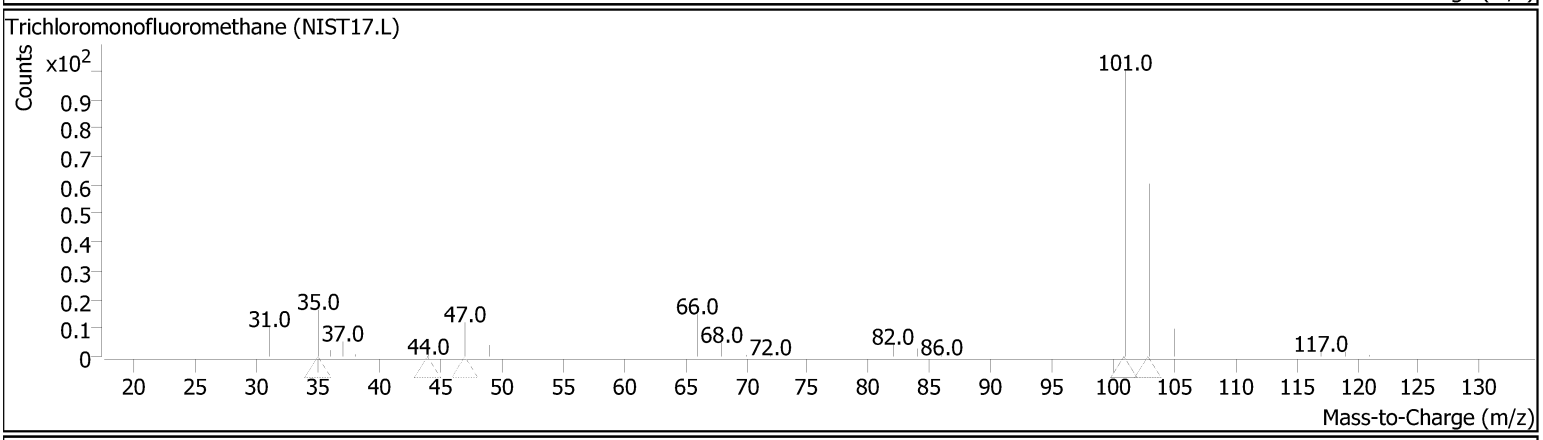



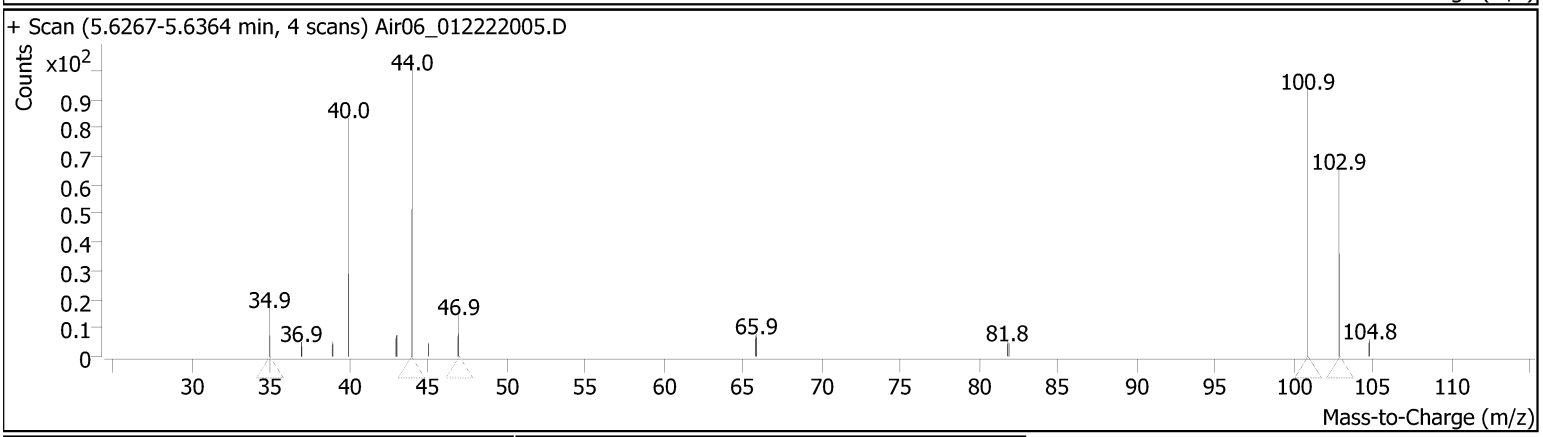



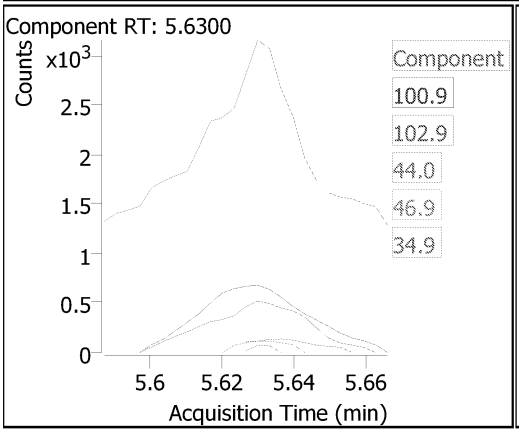



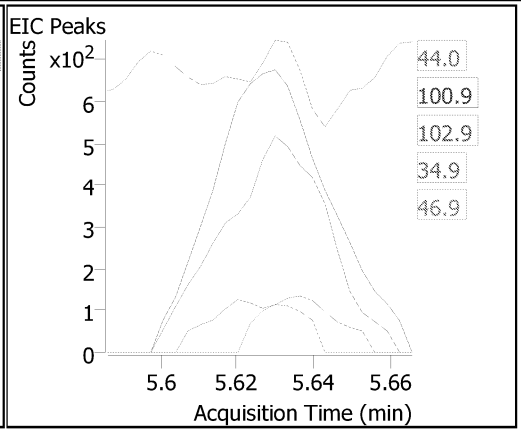
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.6300 | Trichloromonofluoromethane | 3179.1 | 87.8 | 75-69-4 | CCl3F | 0.01309 |

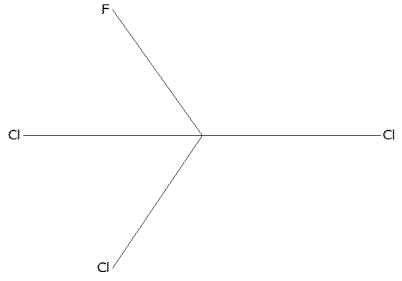


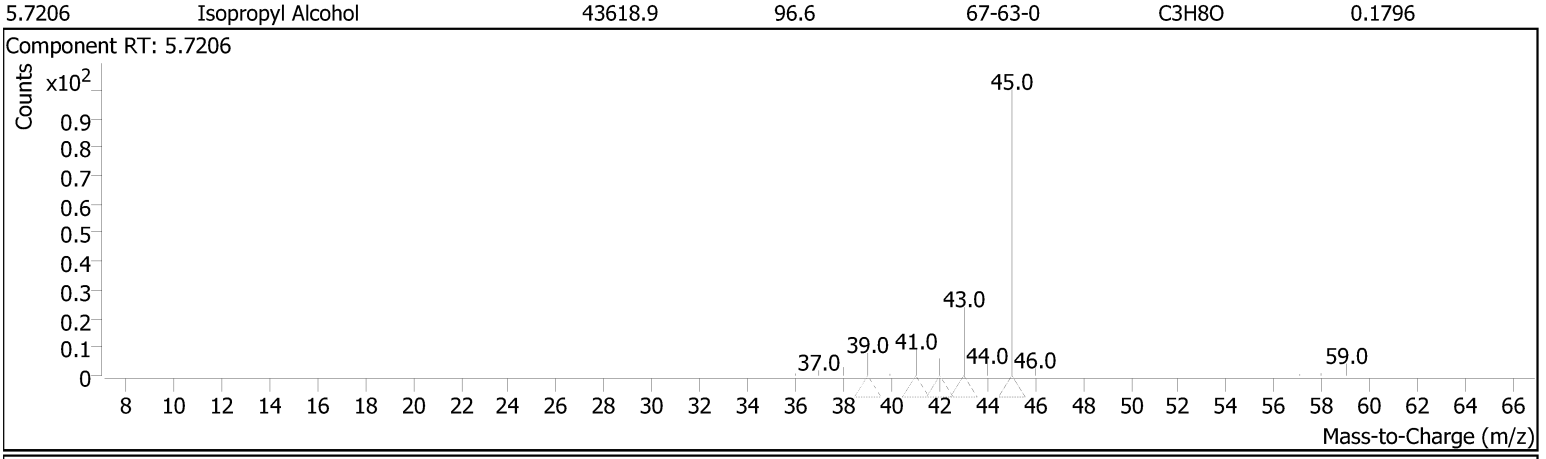



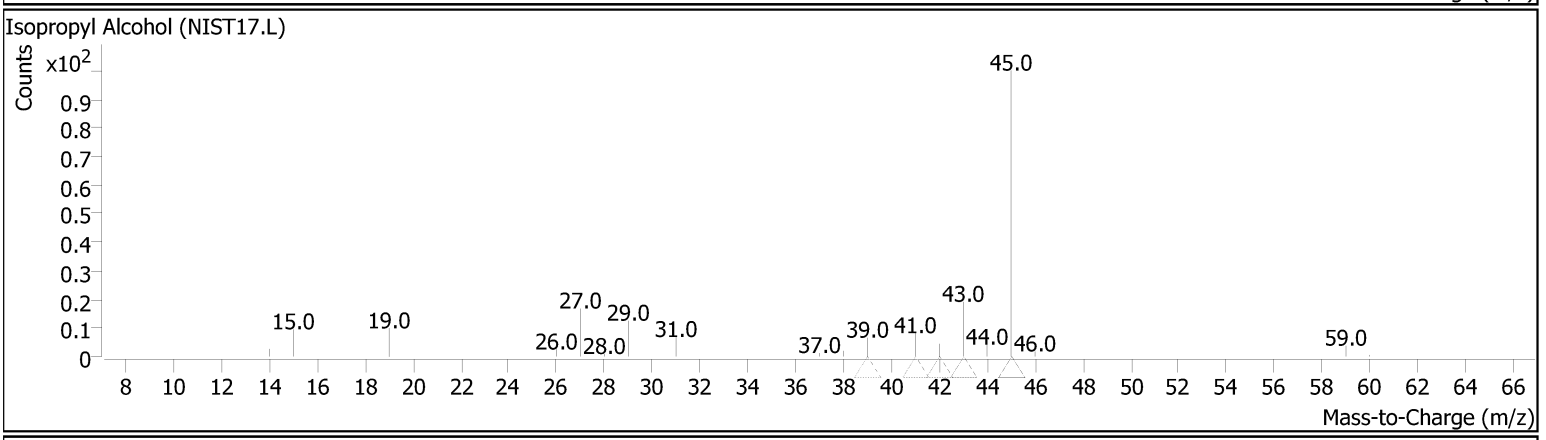



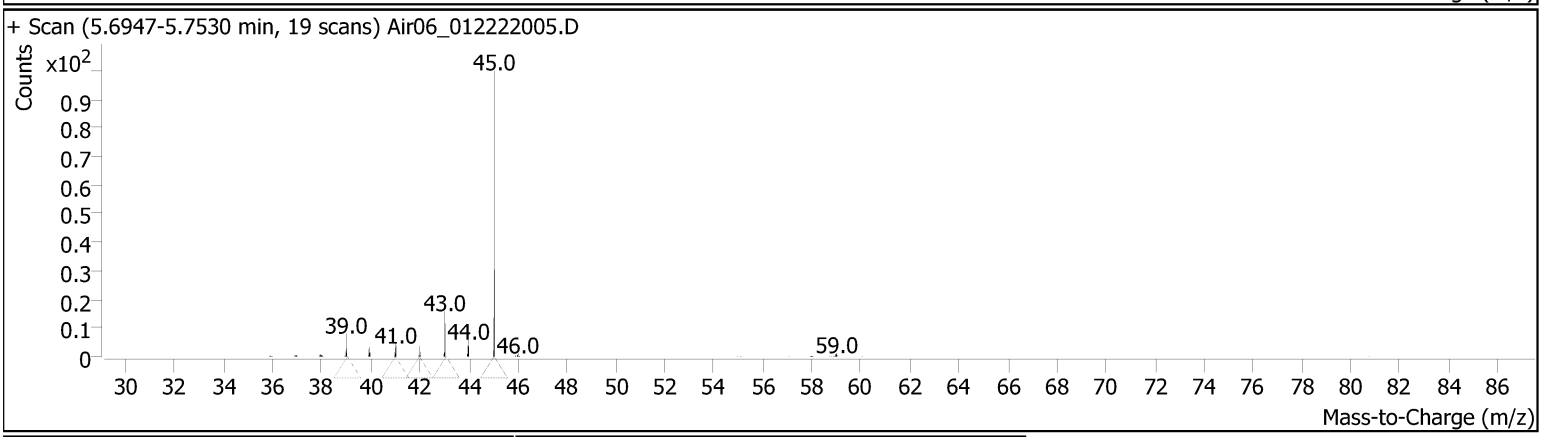



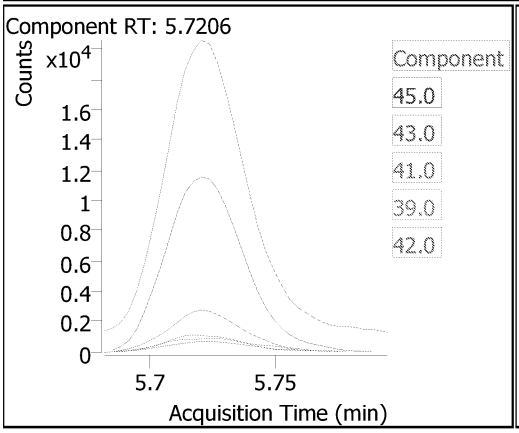



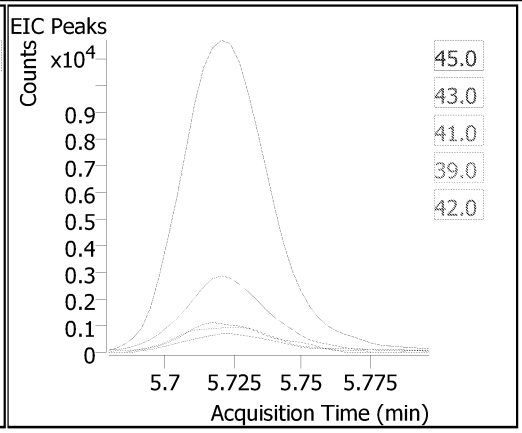
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.7206 | Isopropyl Alcohol | 43618.9 | 96.6 | 67-63-0 | C3H8O | 0.1796 |

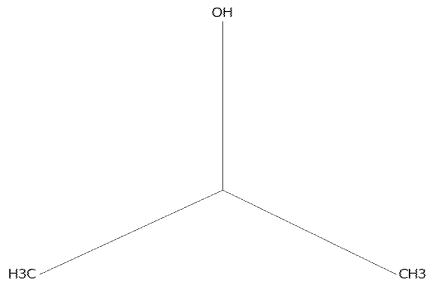


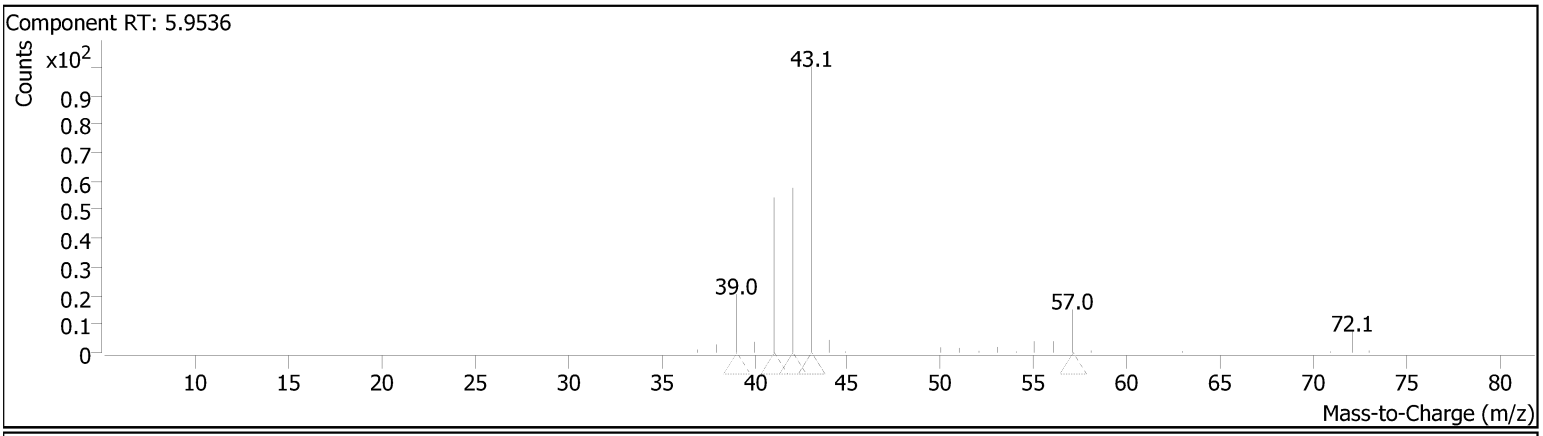



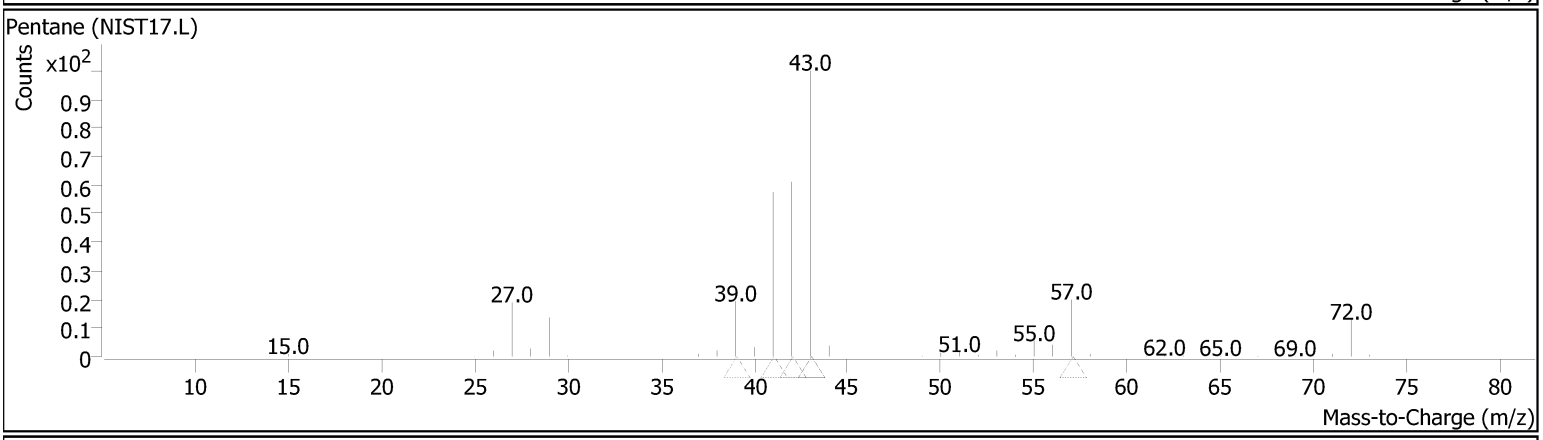



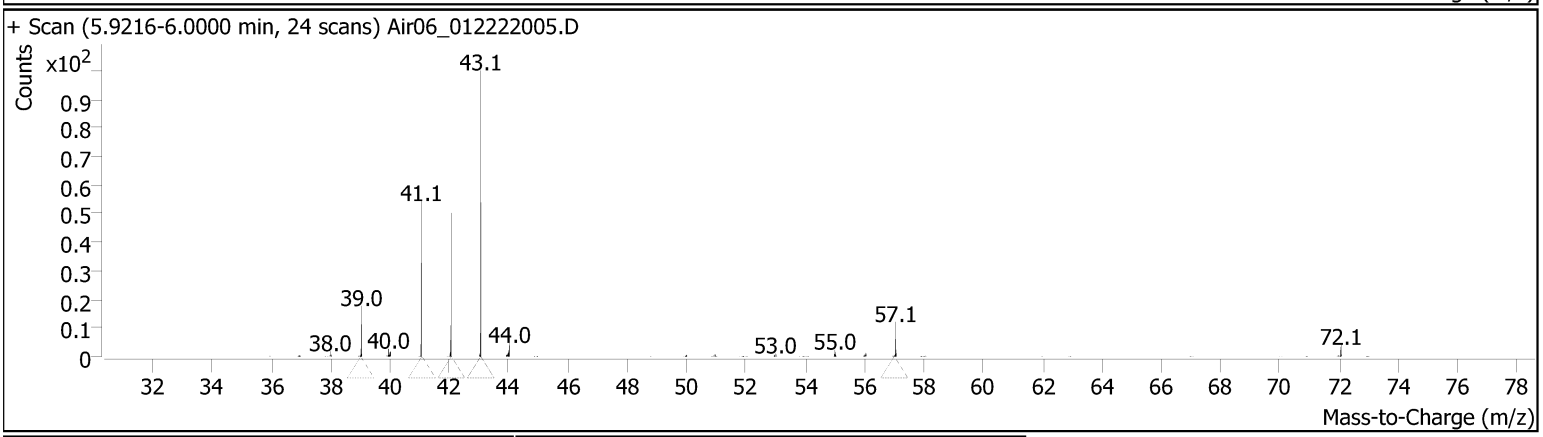



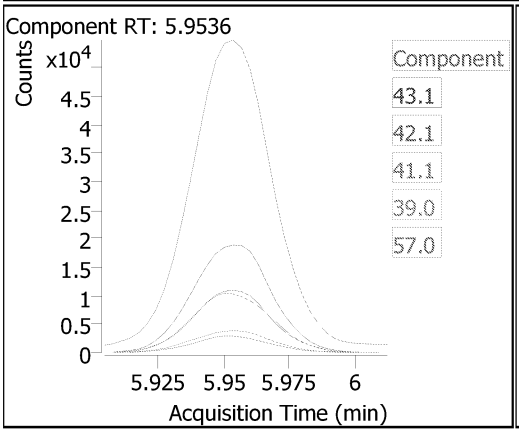



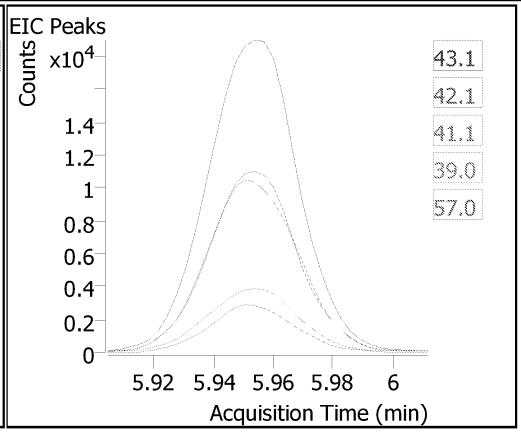
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 5.9536 | Pentane | 113799.8 | 98.7 | 109-66-0 | C5H12 | 0.4686 |

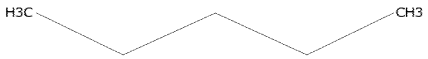


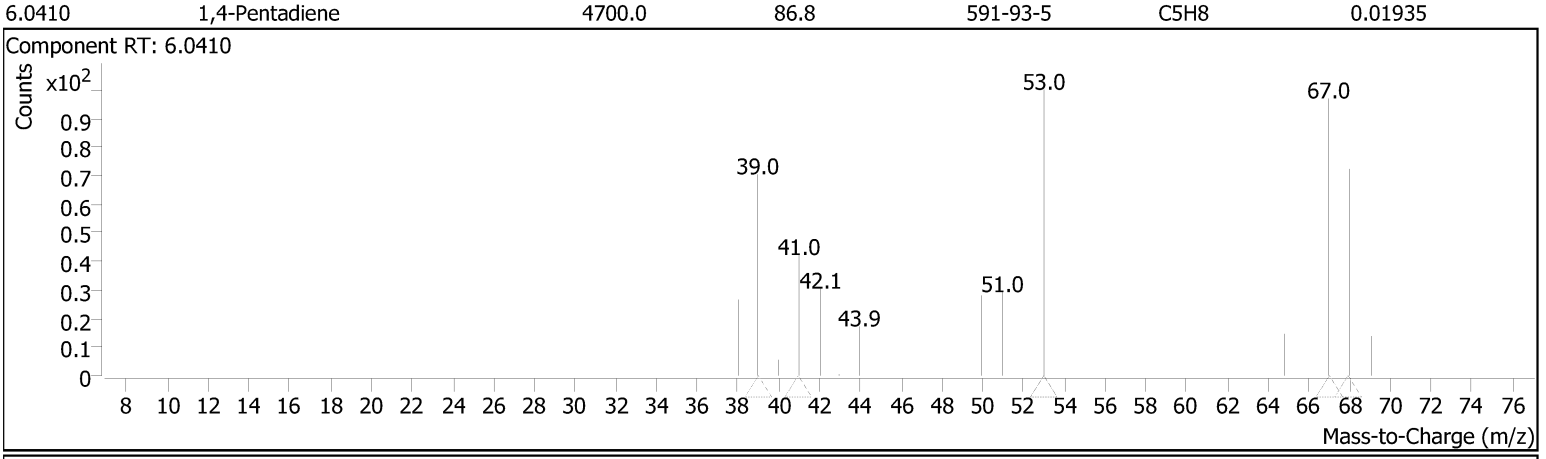



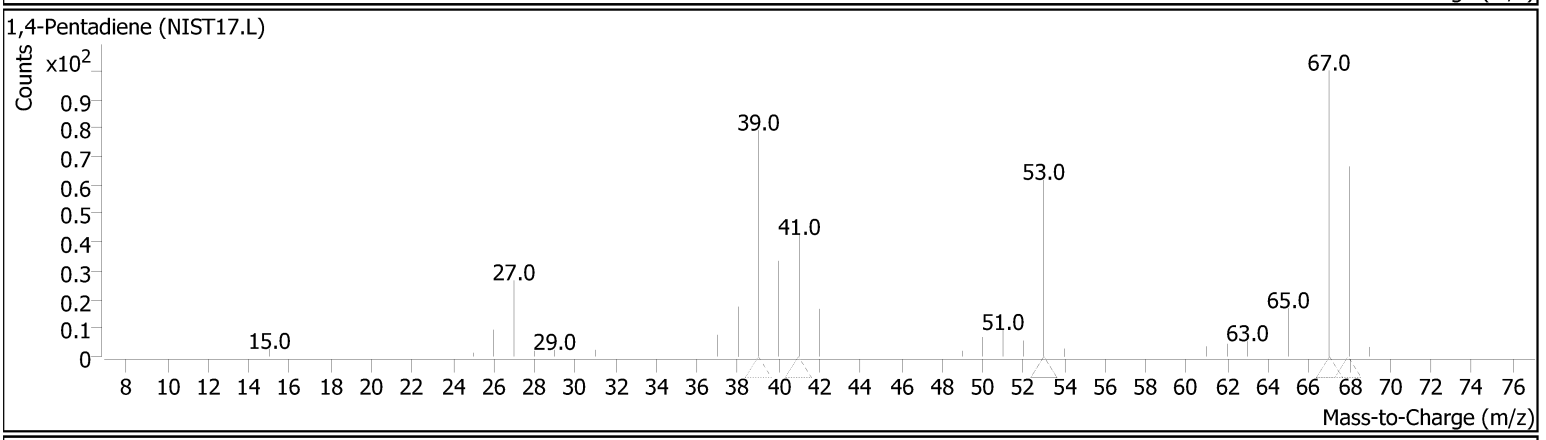



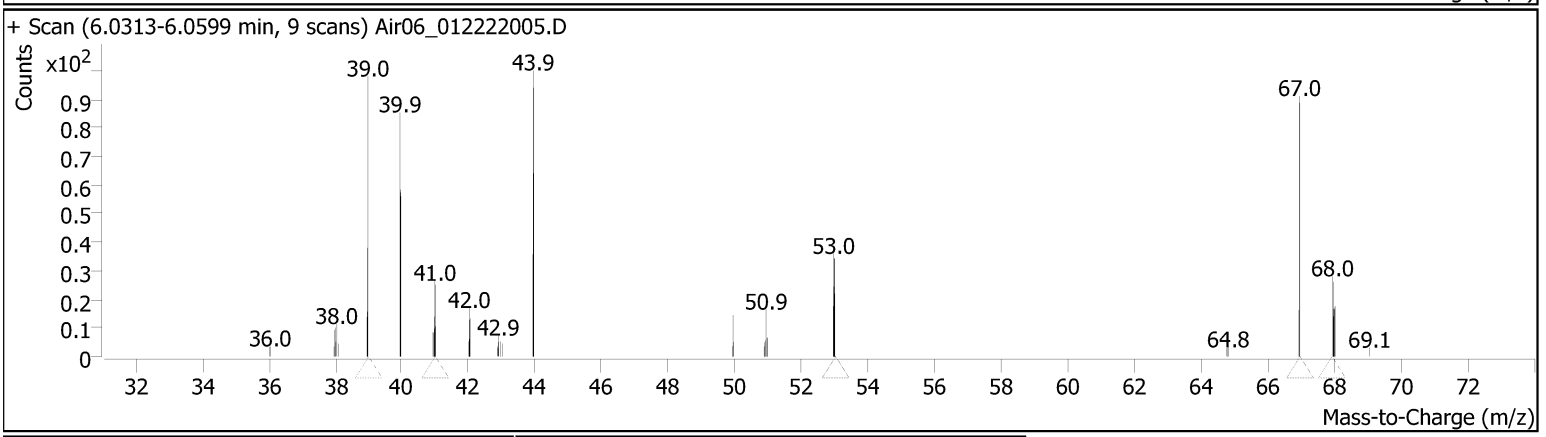



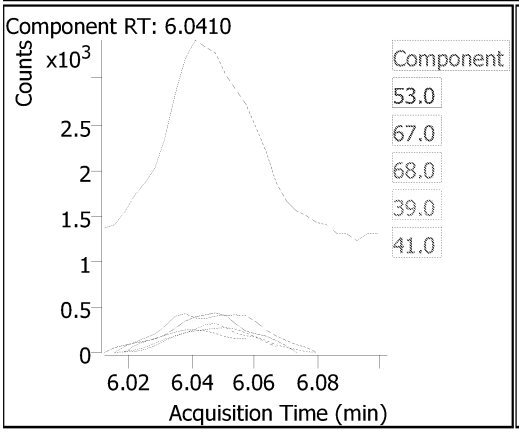



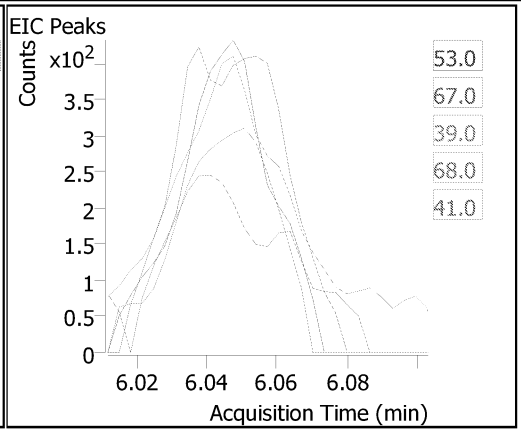
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.0410 | 1,4-Pentadiene | 4700.0 | 86.8 | 591-93-5 | C5H8 | 0.01935 |

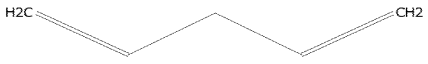


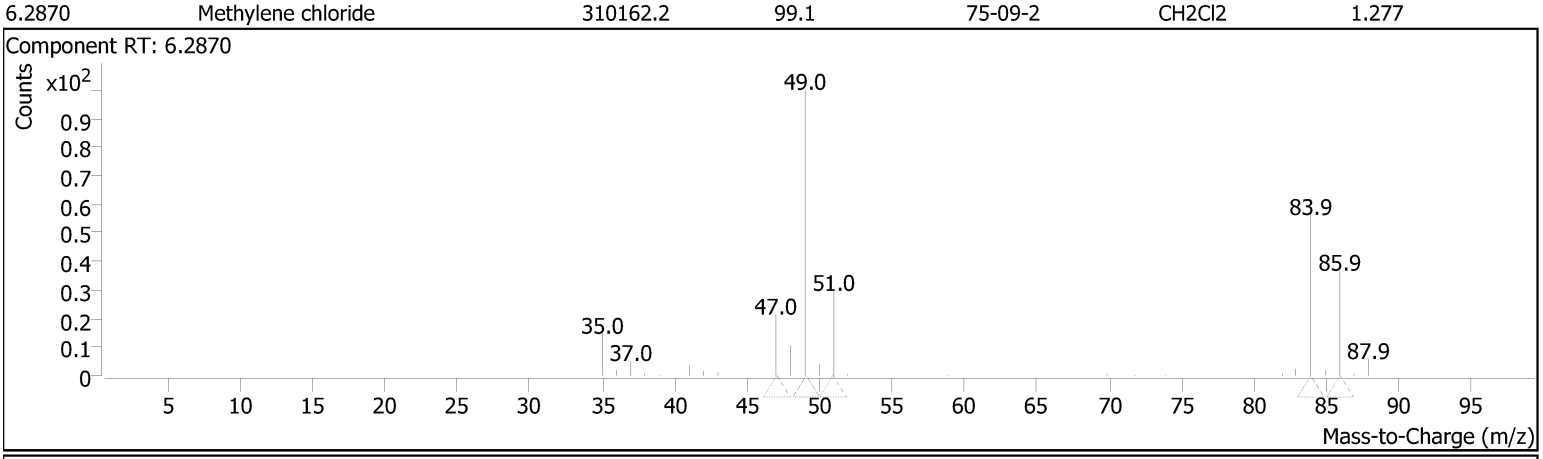



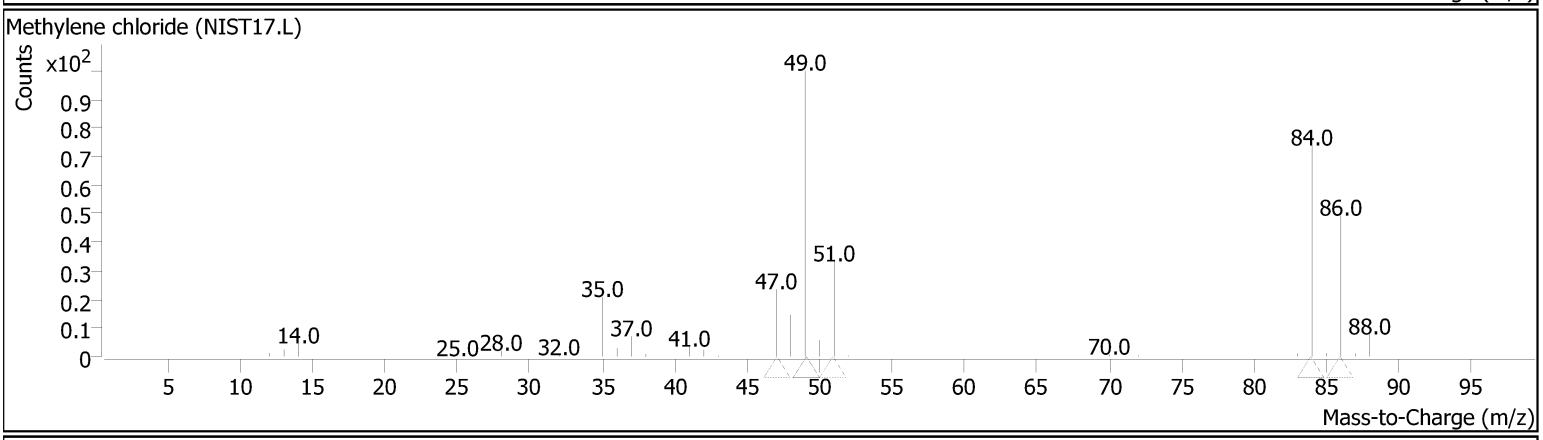



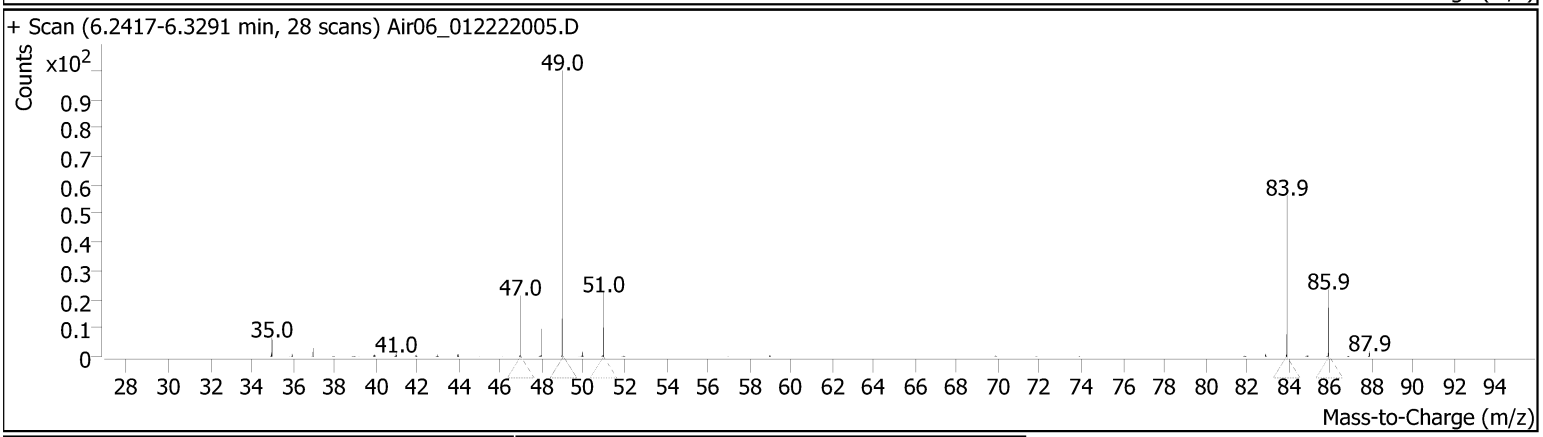



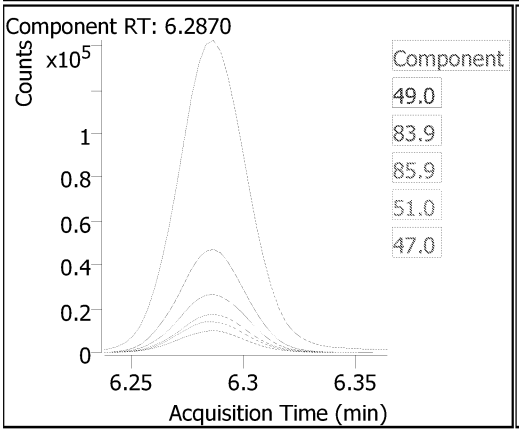



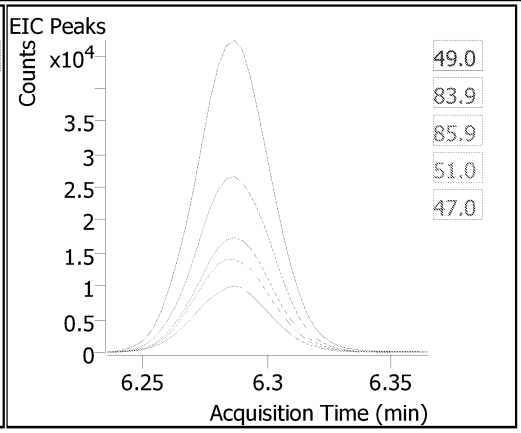
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.2870 | Methylene chloride | 310162.2 | 99.1 | 75-09-2 | CH2Cl2 | 1.277 |

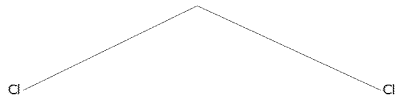


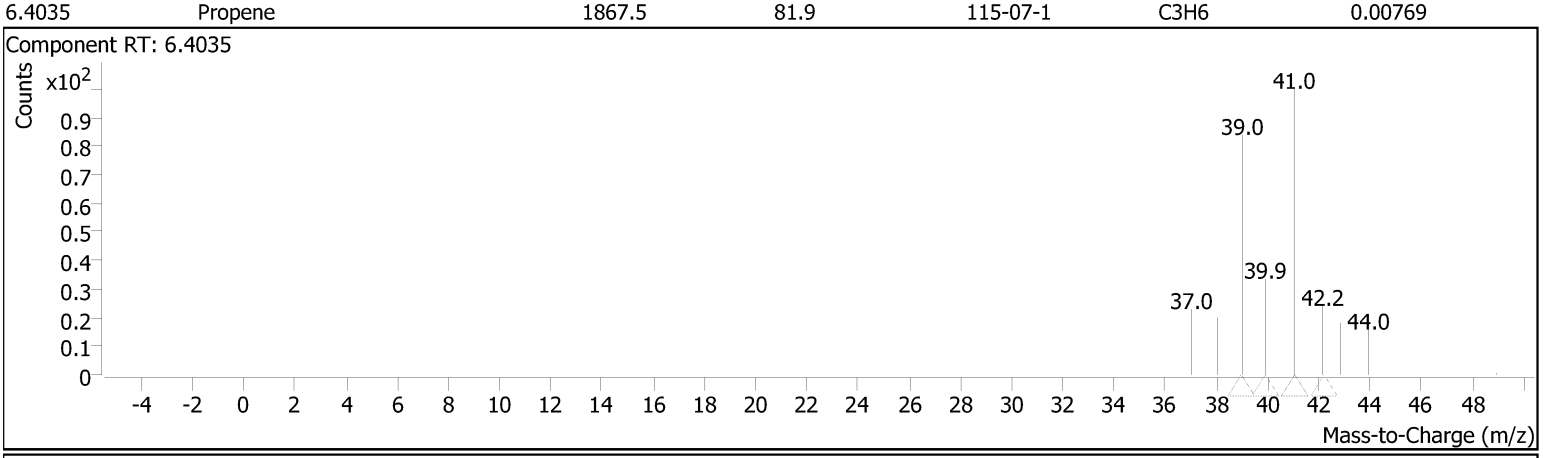



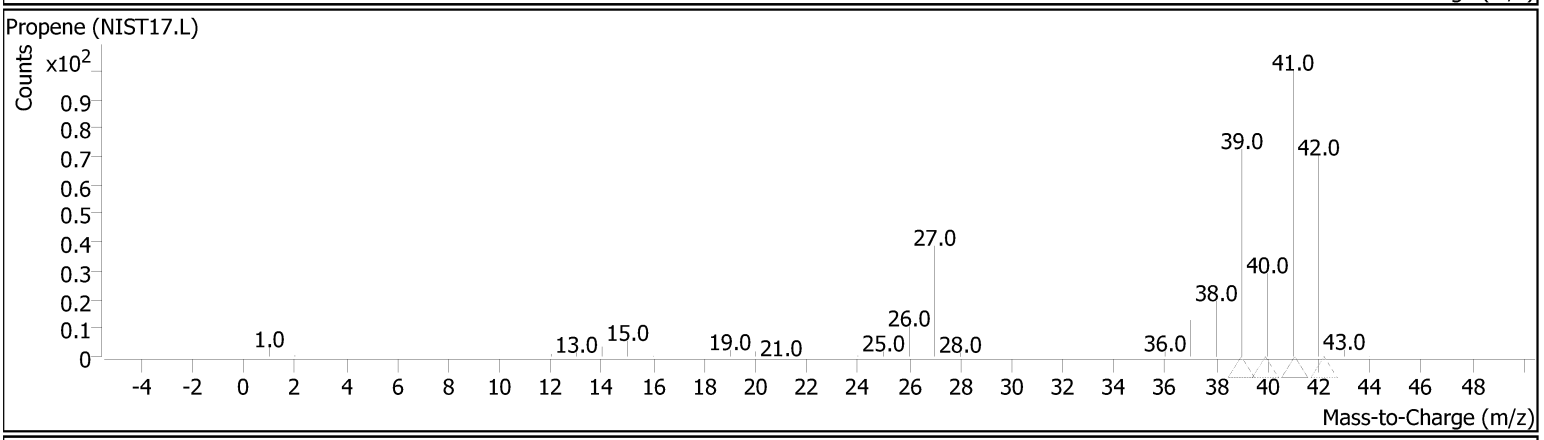



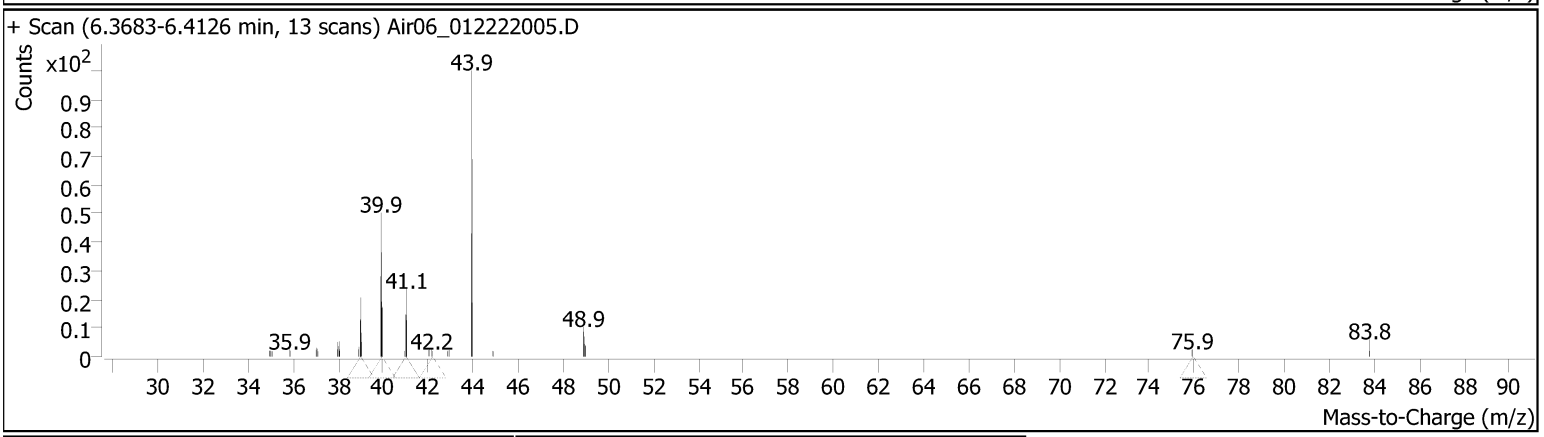



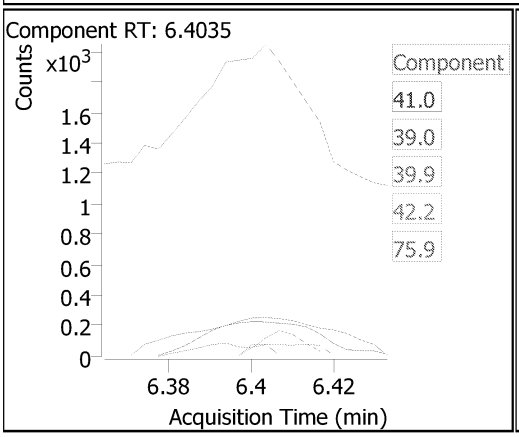



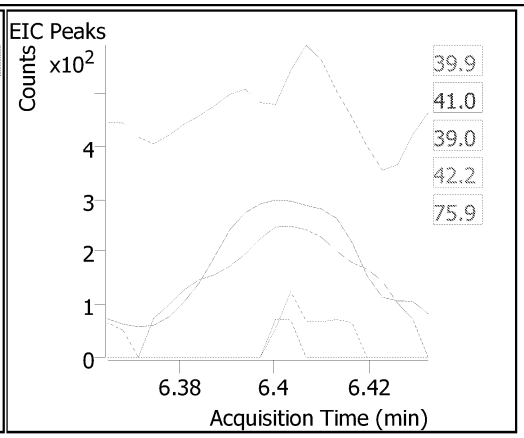
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.4035 | Propene | 1867.5 | 81.9 | 115-07-1 | C3H6 | 0.00769 |

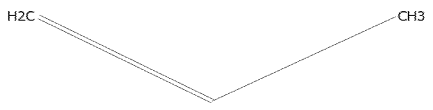


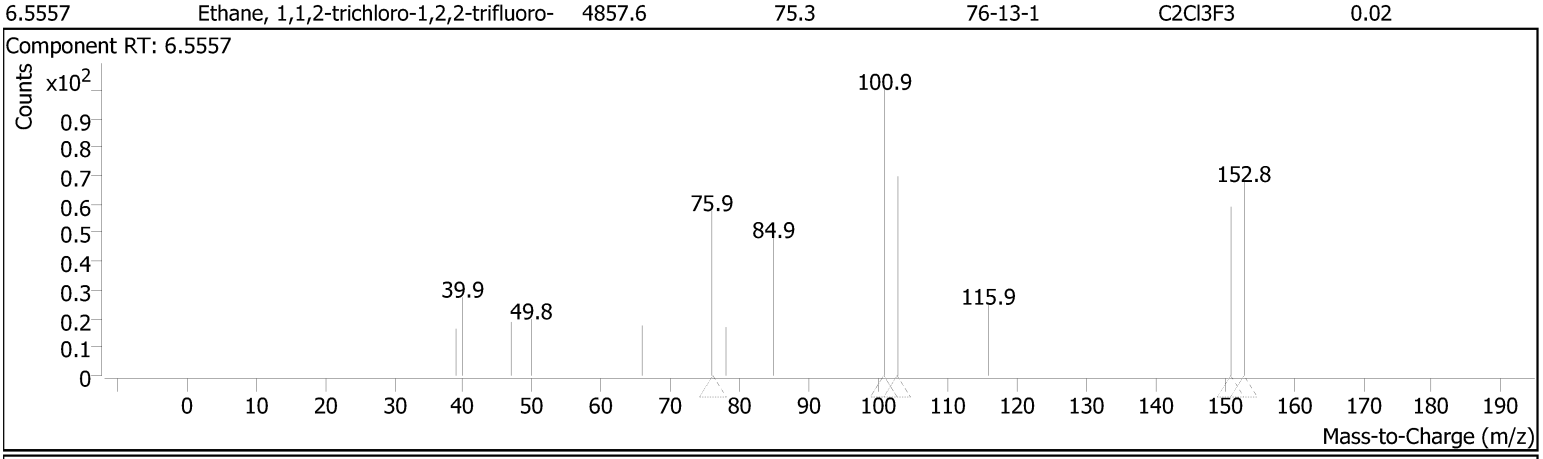



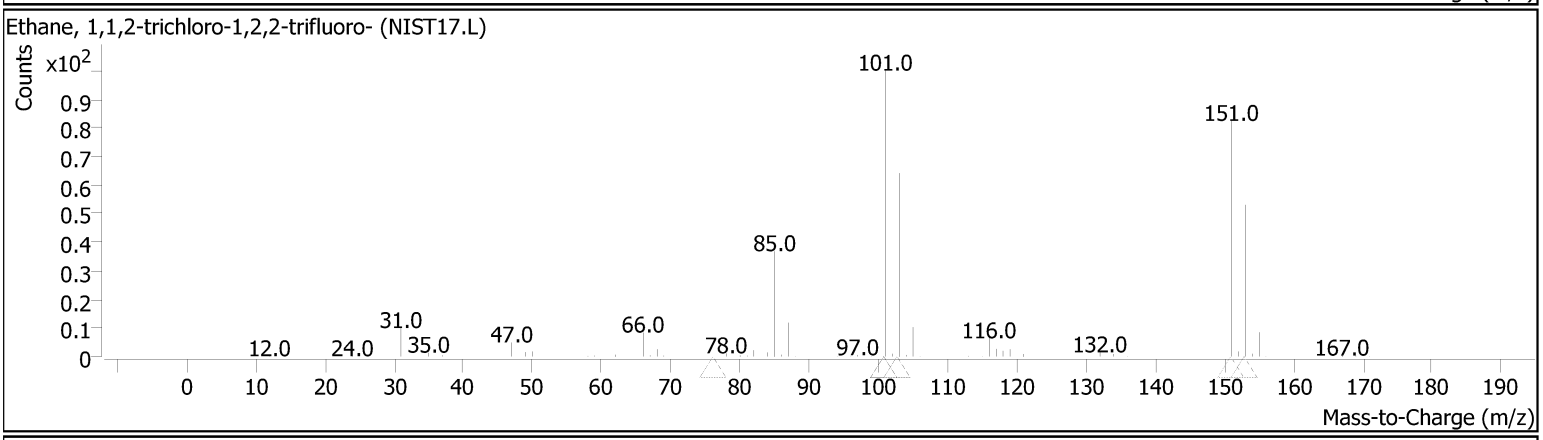



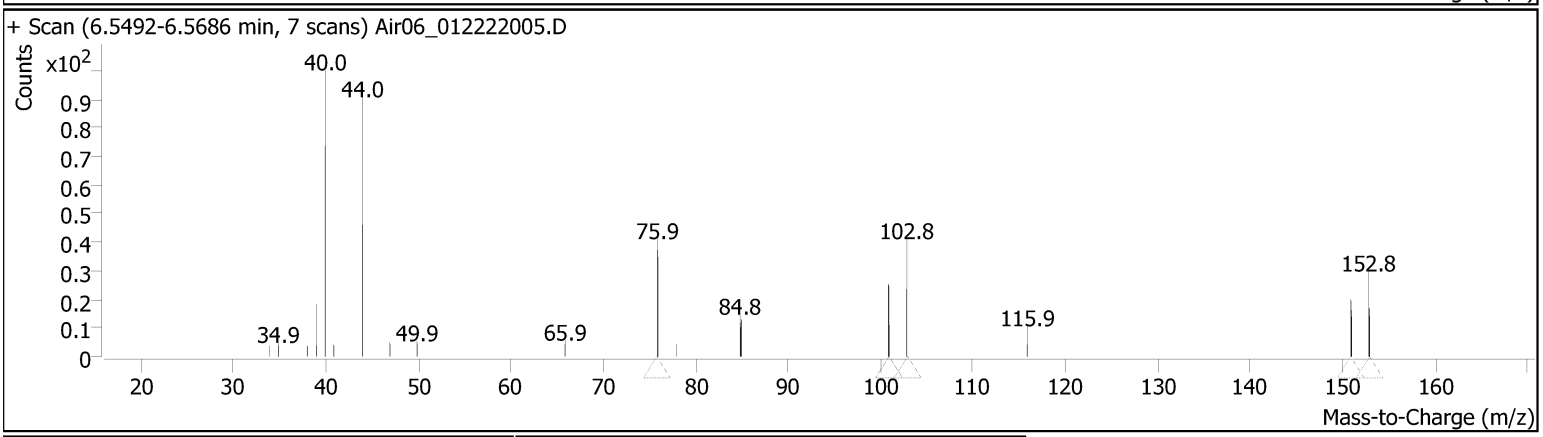



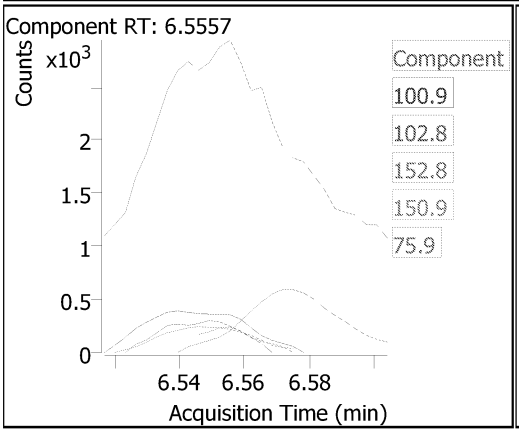



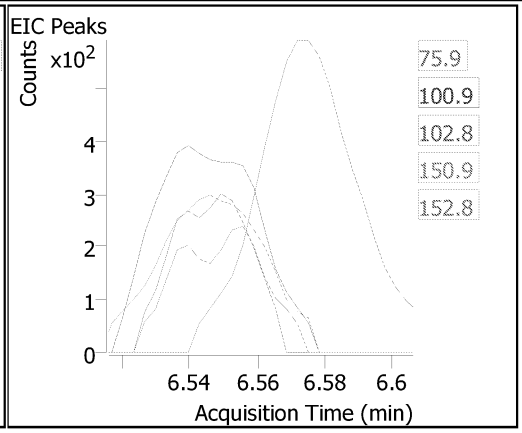
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.5557 | Ethane, 1,1,2-trichloro-1,2,2-trifluoro- | 4857.6 | 75.3 | 76-13-1 | C2Cl3F3 | 0.02 |

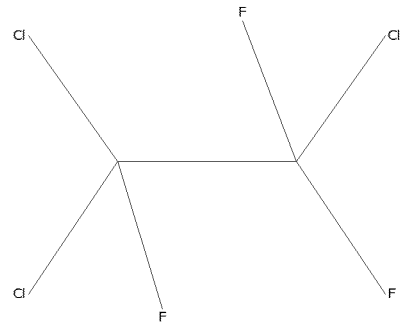


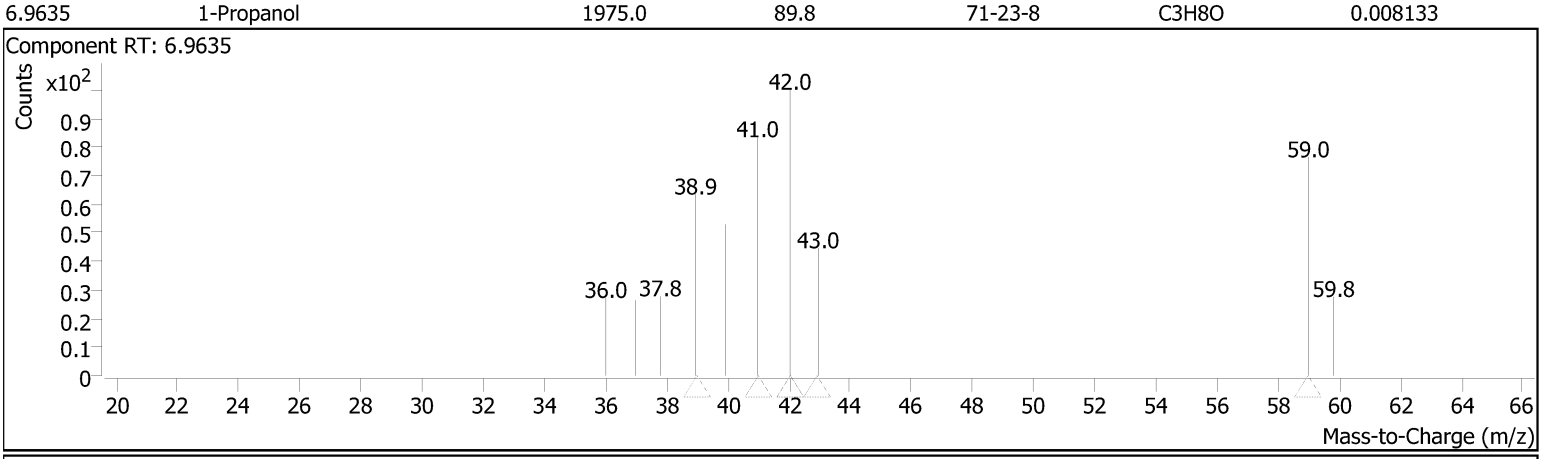



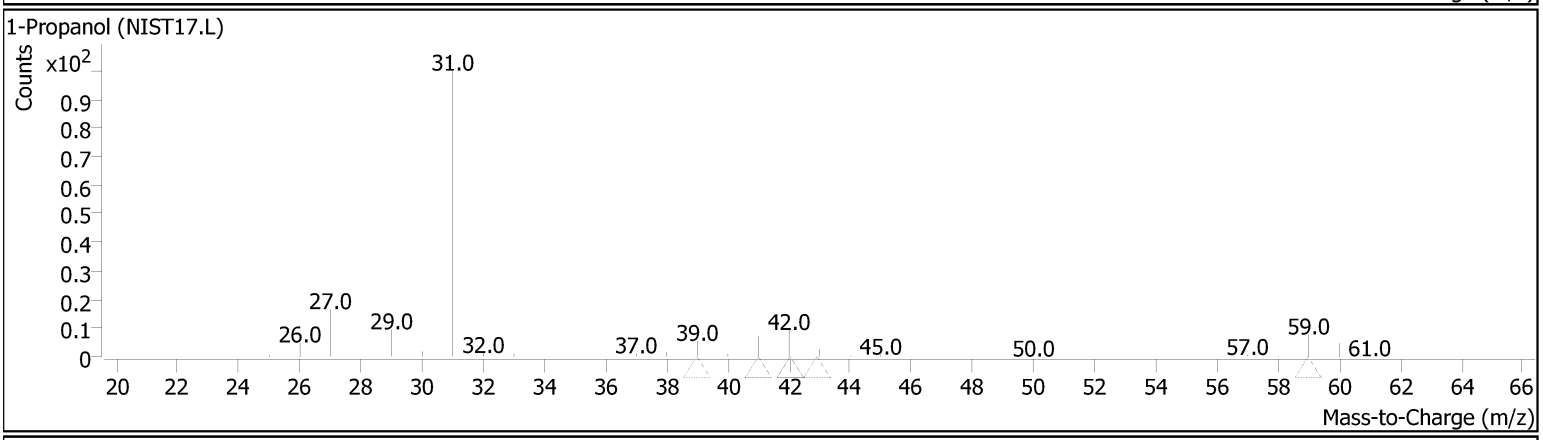



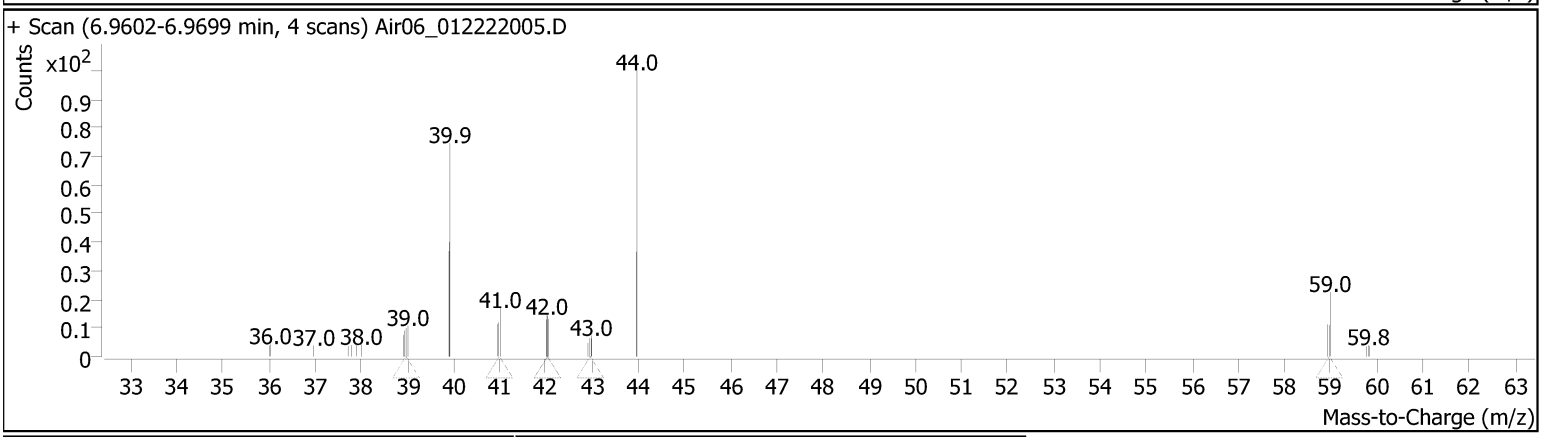



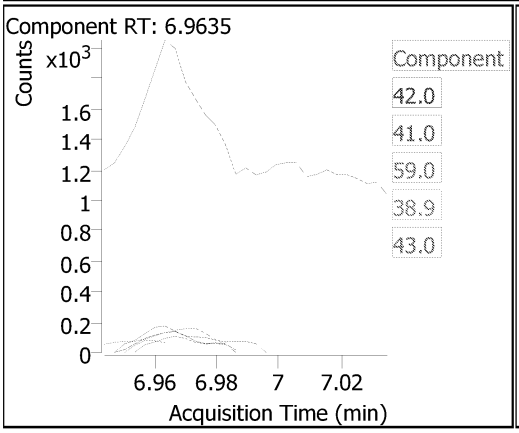



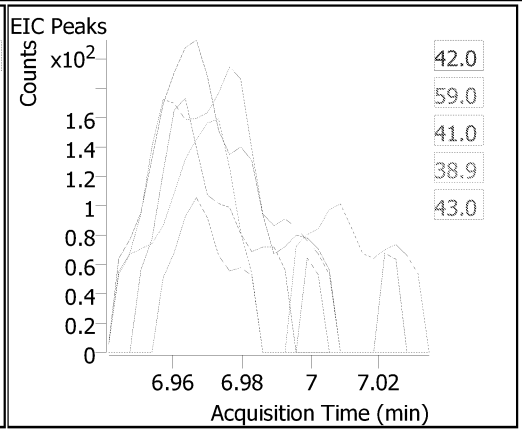
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 6.9635 | 1-Propanol | 1975.0 | 89.8 | 71-23-8 | C3H8O | 0.008133 |



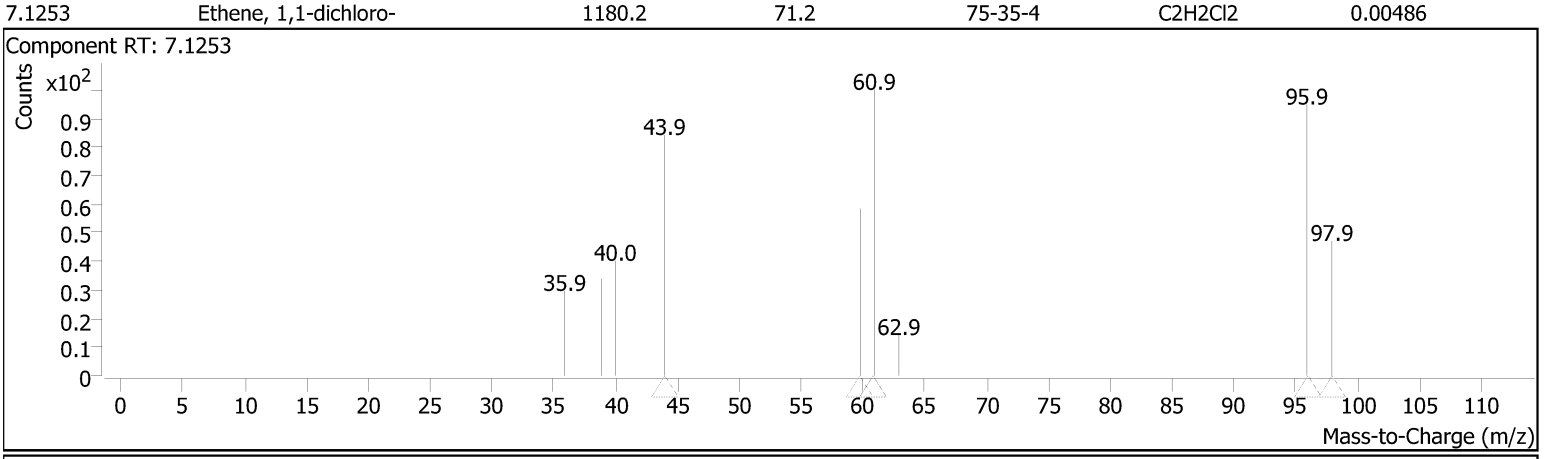



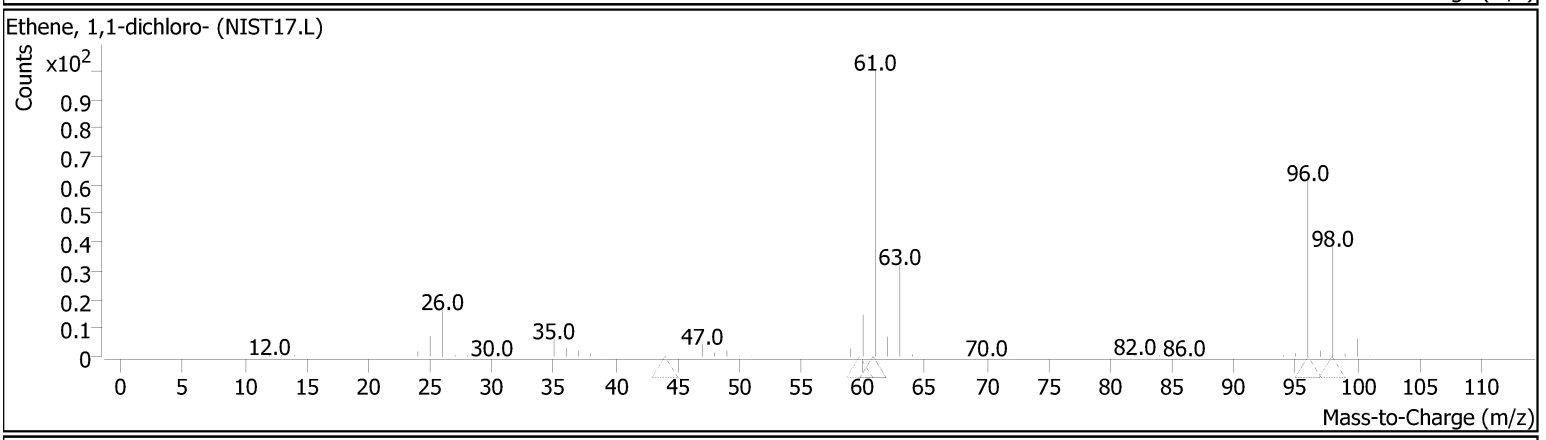



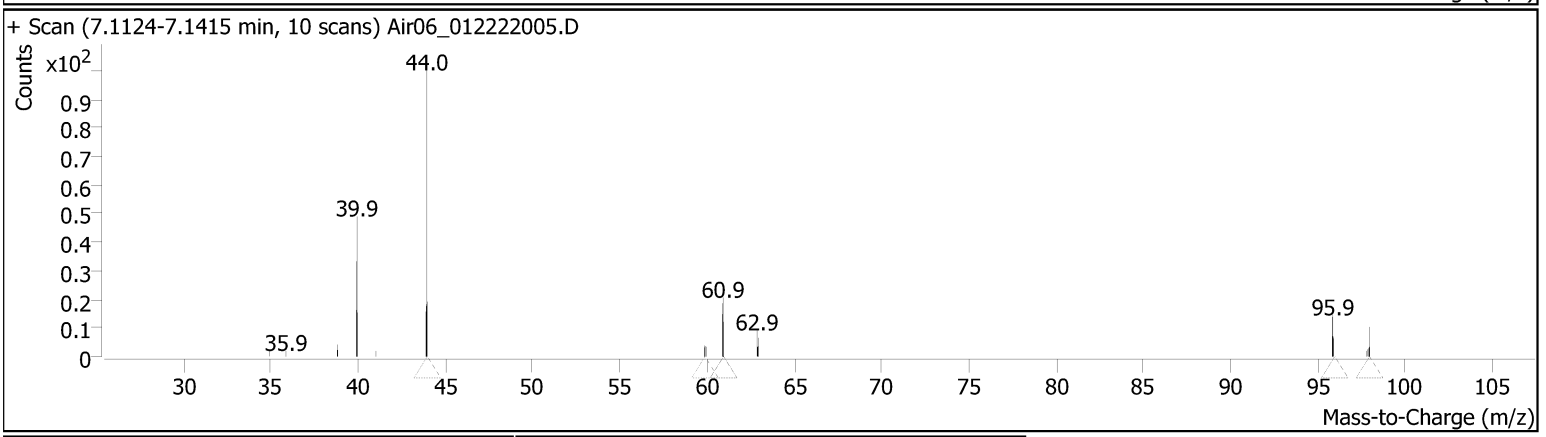



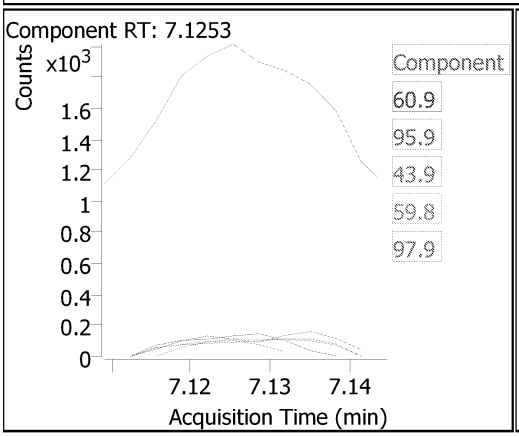


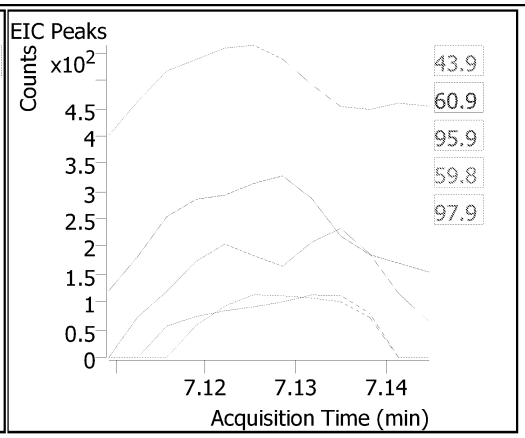

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.1253 | Ethene, 1,1-dichloro- | 1180.2 | 71.2 | 75-35-4 | C2H2Cl2 | 0.00486 |

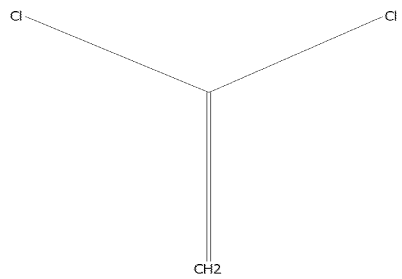


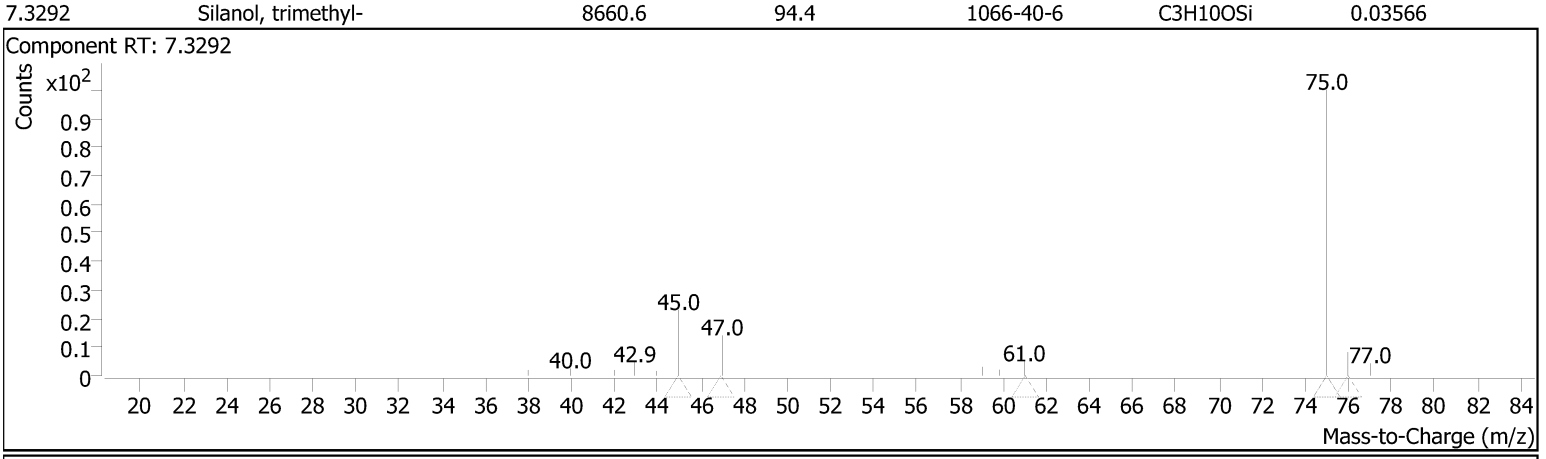



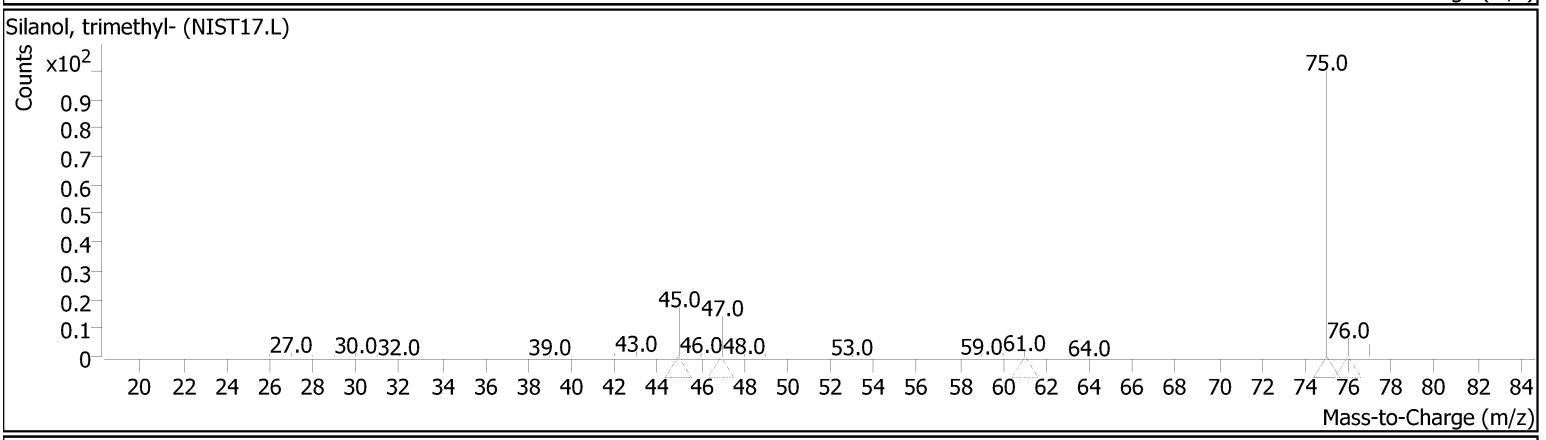



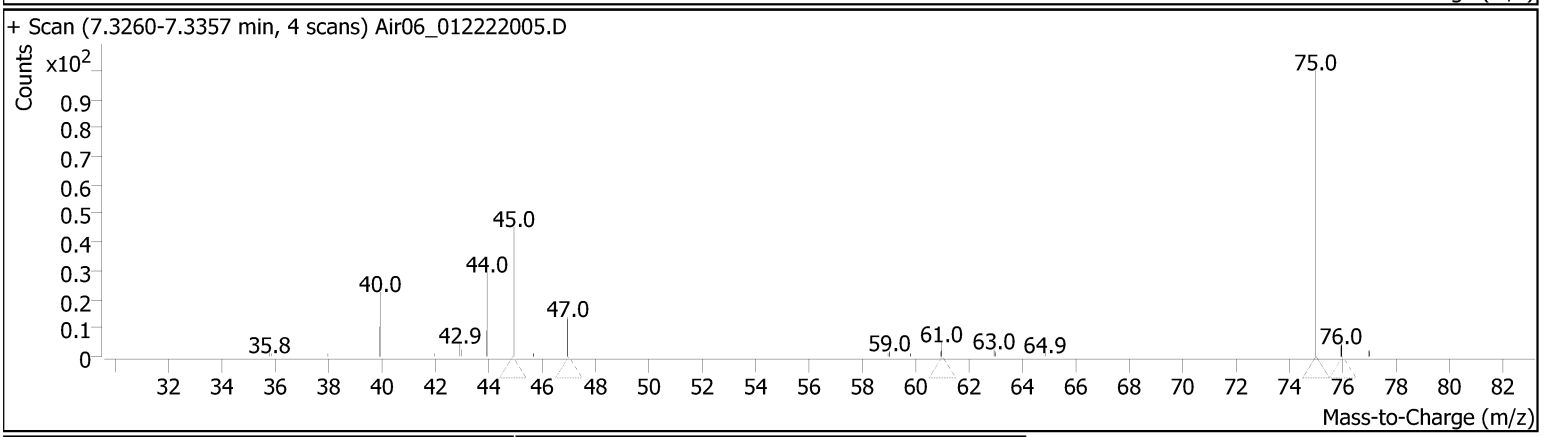



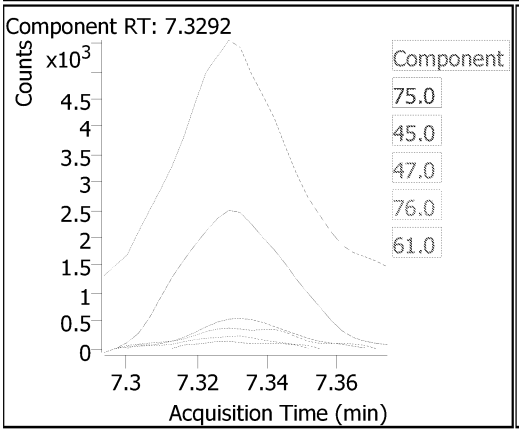



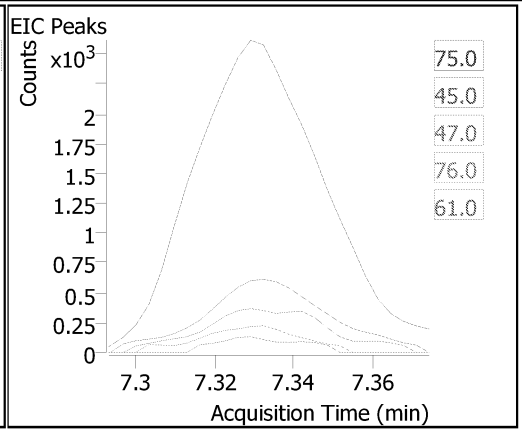
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.3292 | Silanol, trimethyl- | 8660.6 | 94.4 | 1066-40-6 | C3H10OSi | 0.03566 |

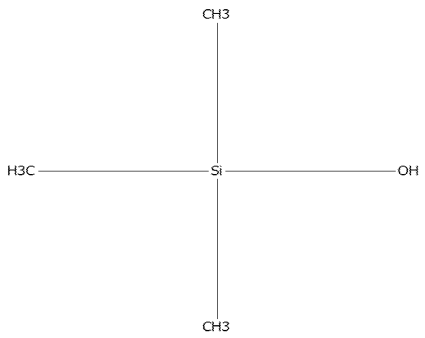


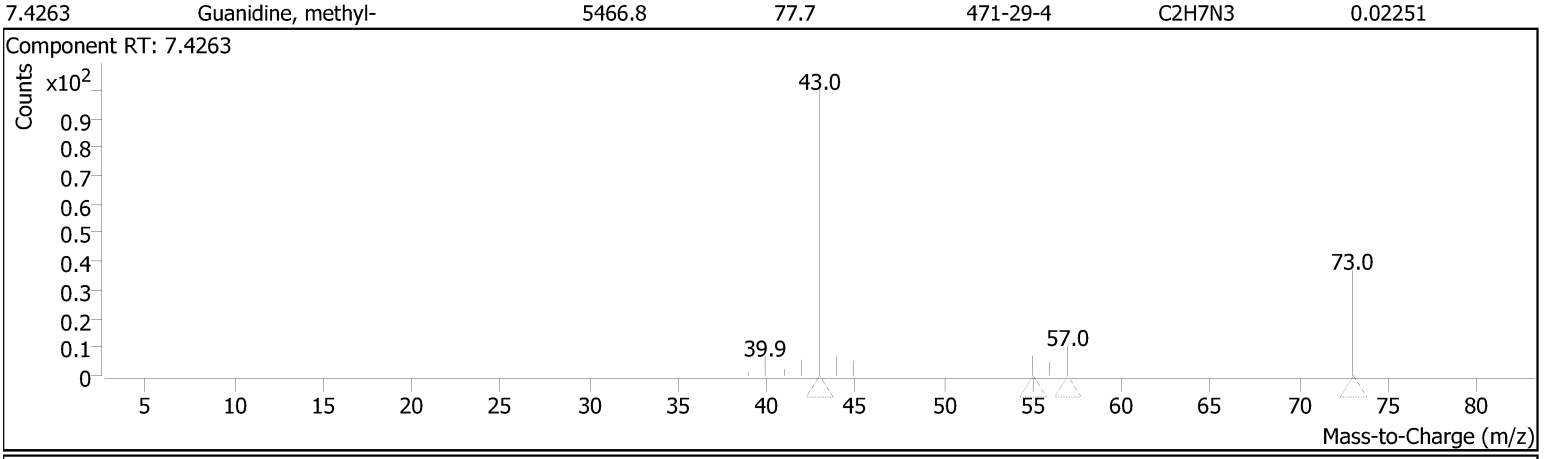



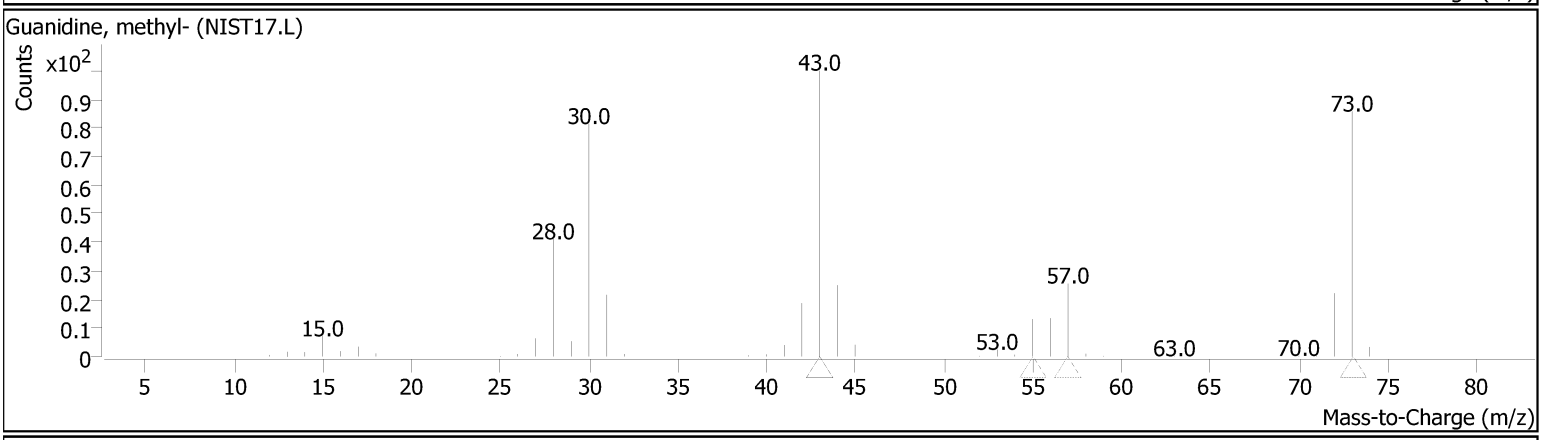



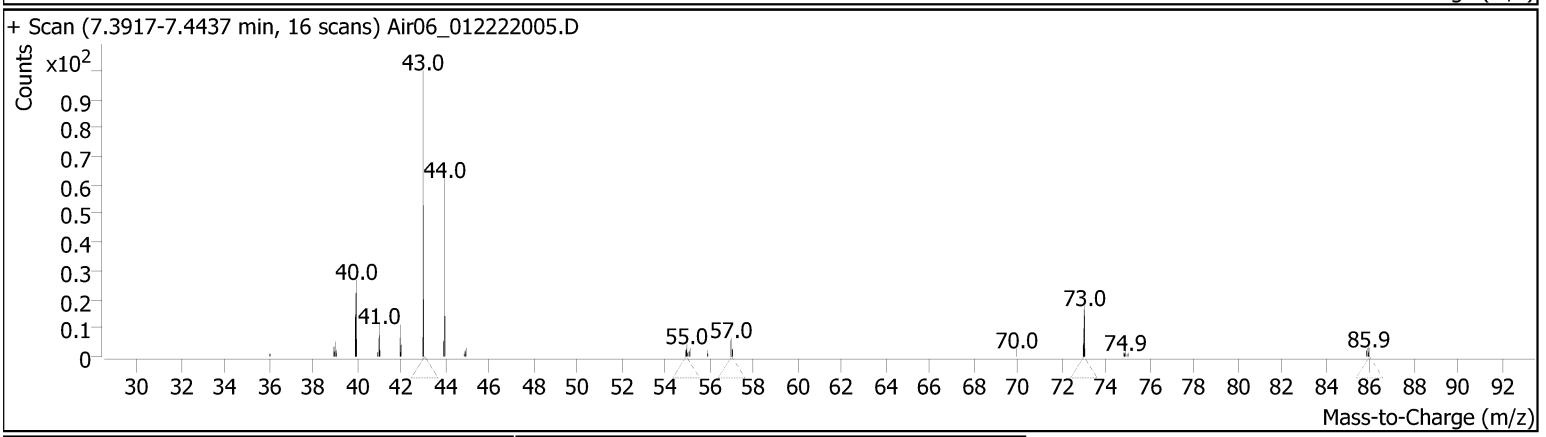



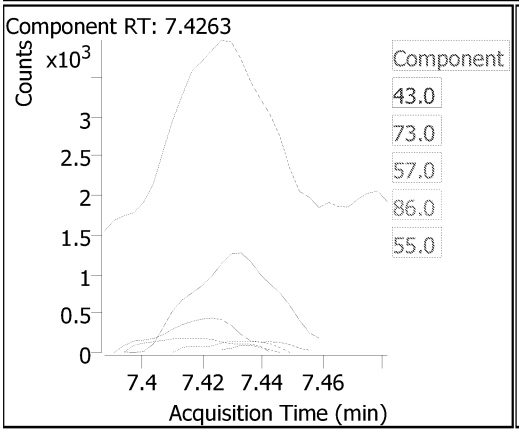



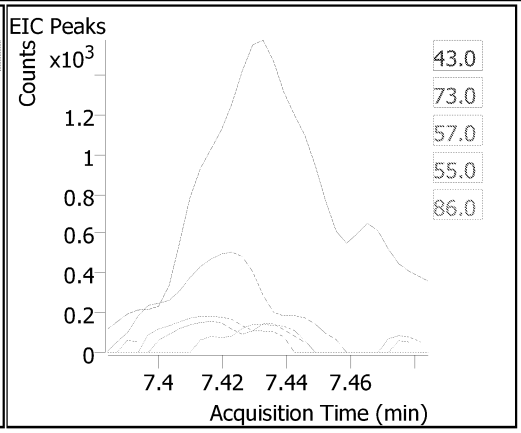
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.4263 | Guanidine, methyl- | 5466.8 | 77.7 | 471-29-4 | C2H7N3 | 0.02251 |

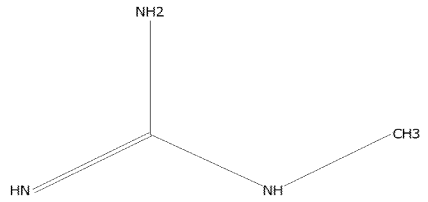


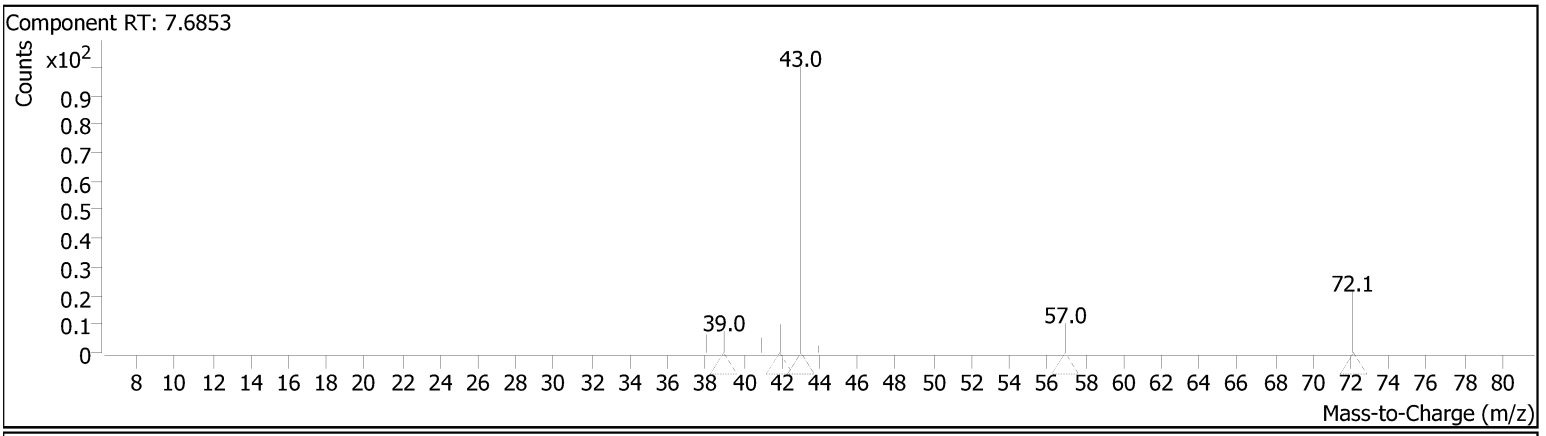



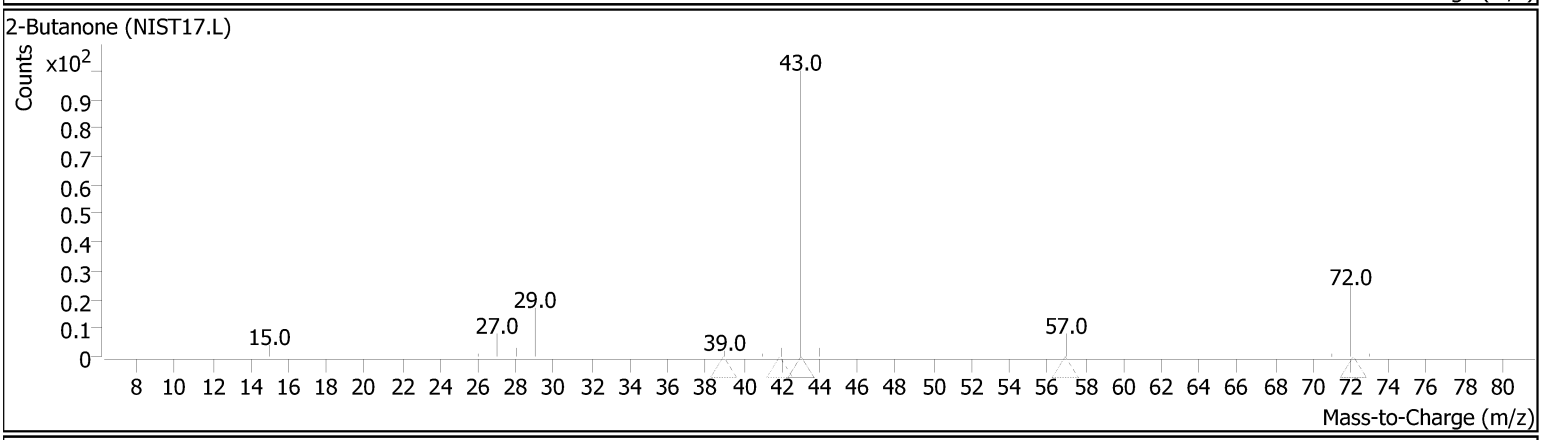



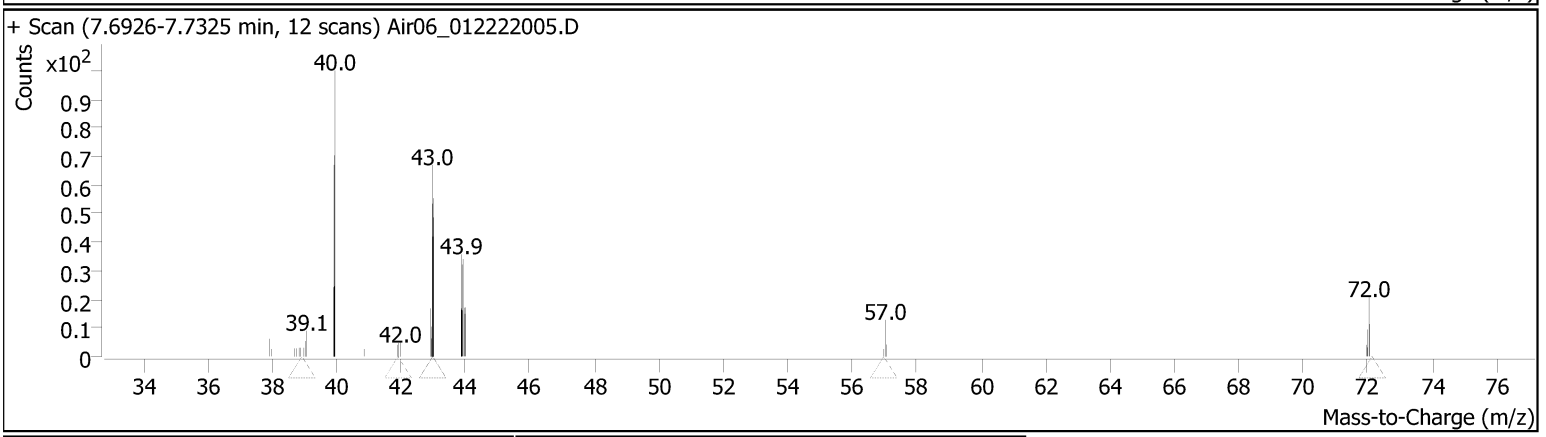



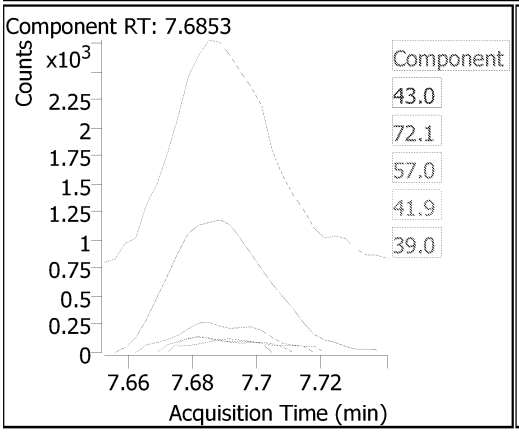



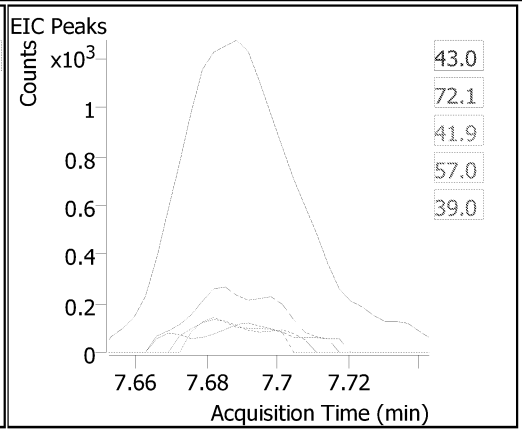
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.6853 | 2-Butanone | 4267.4 | 91.4 | 78-93-3 | C4H8O | 0.01757 |

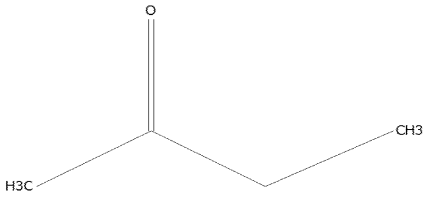


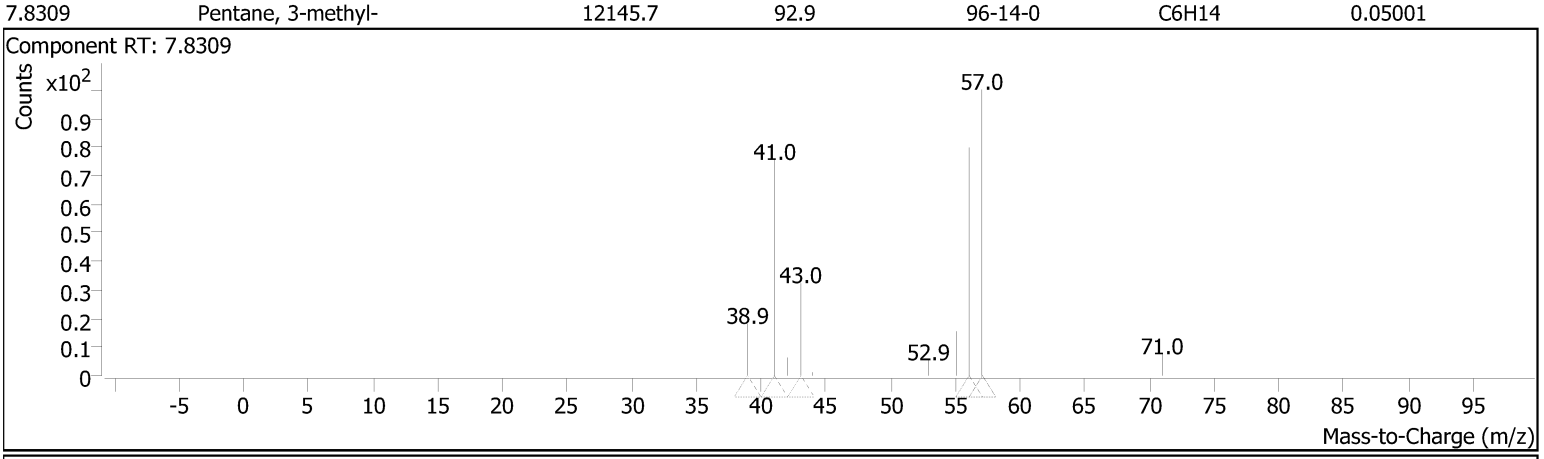



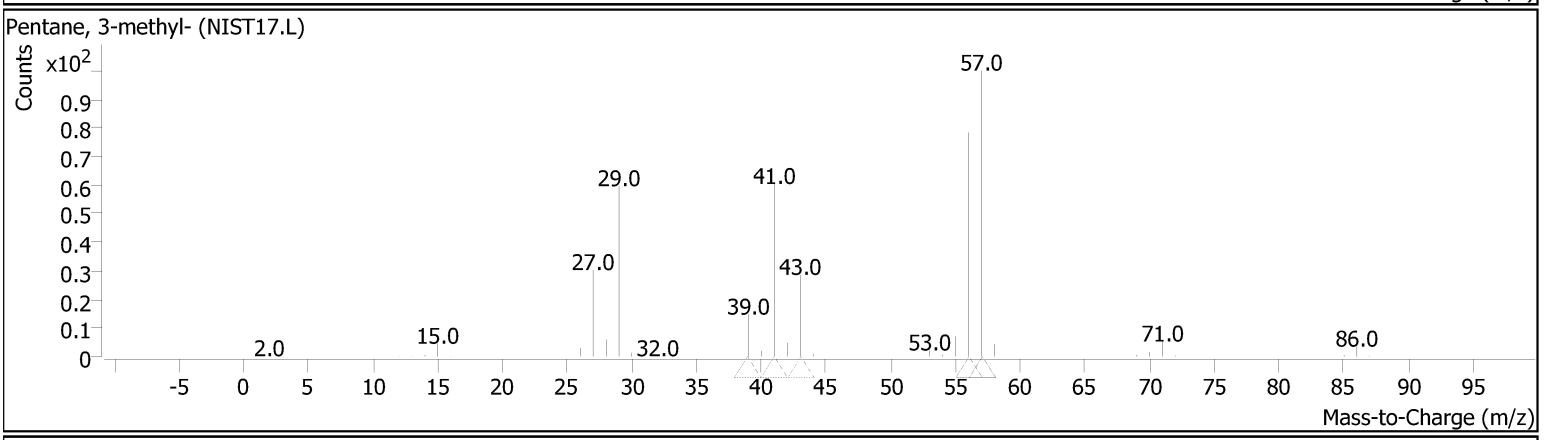



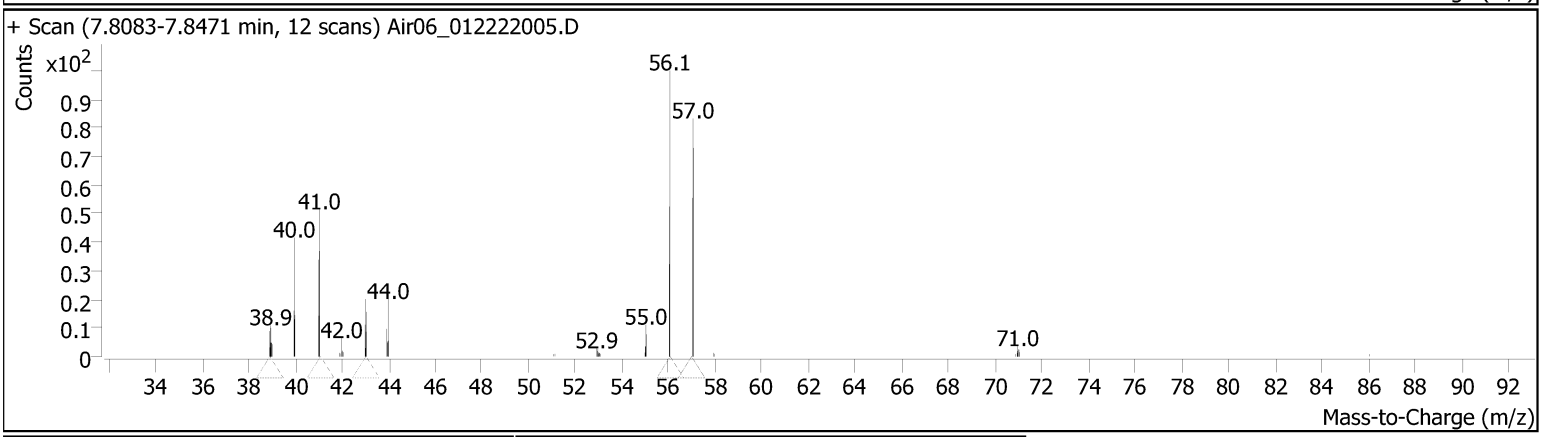



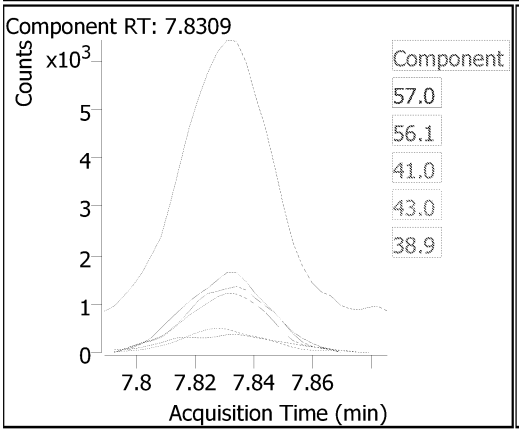



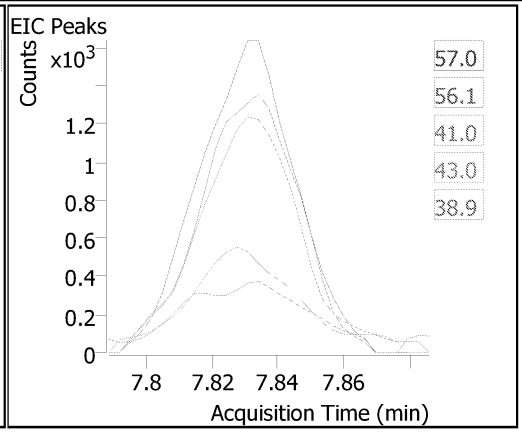
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 7.8309 | Pentane, 3-methyl- | 12145.7 | 92.9 | 96-14-0 | C6H14 | 0.05001 |

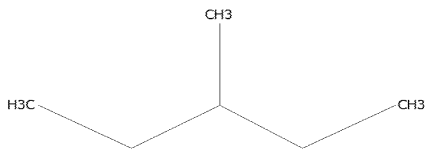


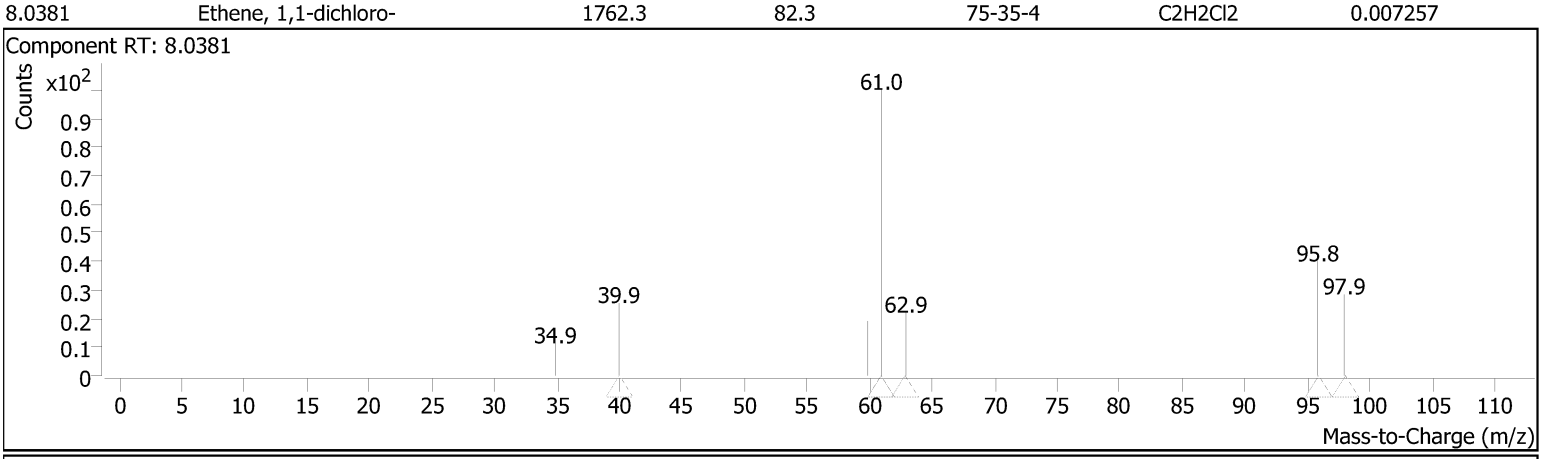



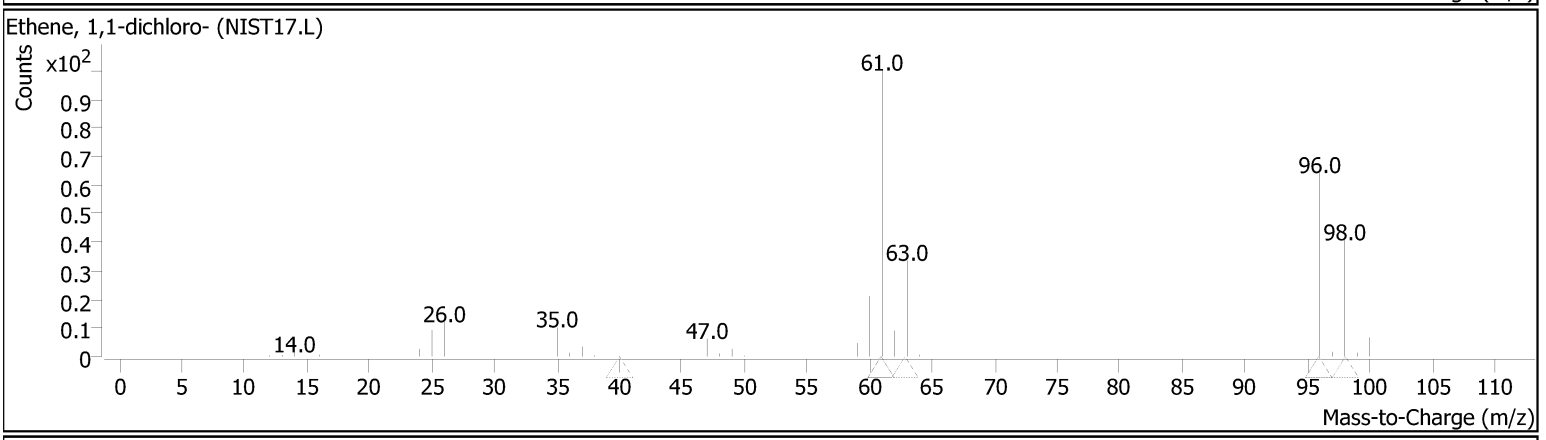



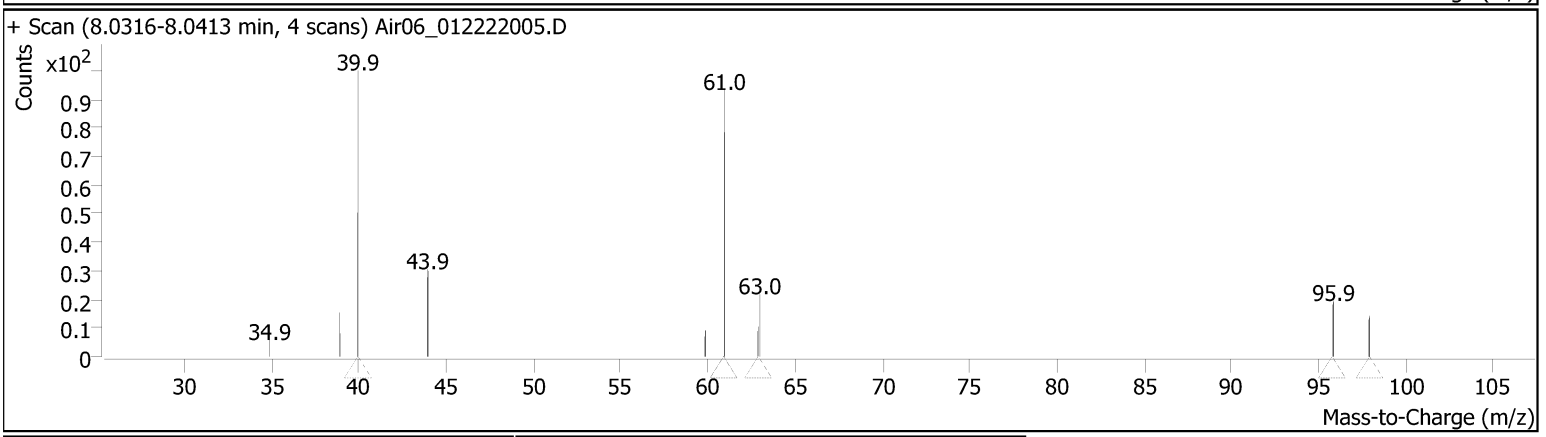



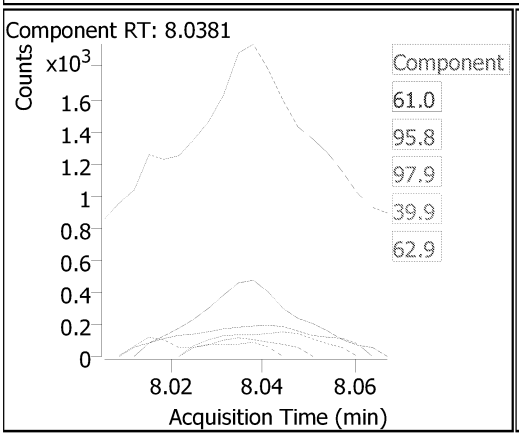



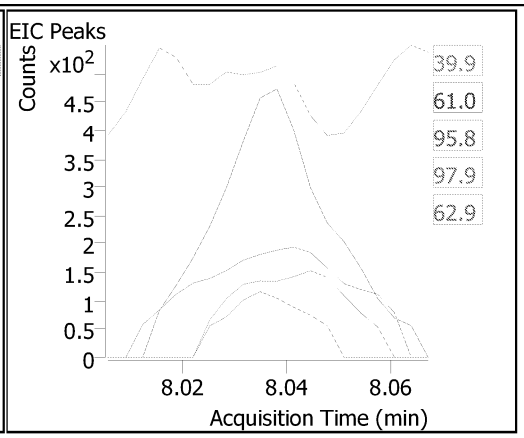
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.0381 | Ethene, 1,1-dichloro- | 1762.3 | 82.3 | 75-35-4 | C2H2Cl2 | 0.007257 |

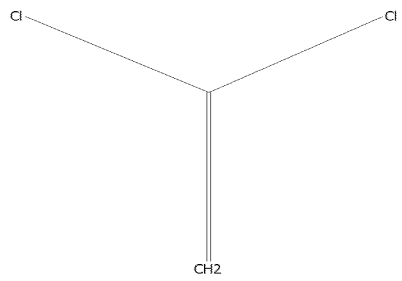


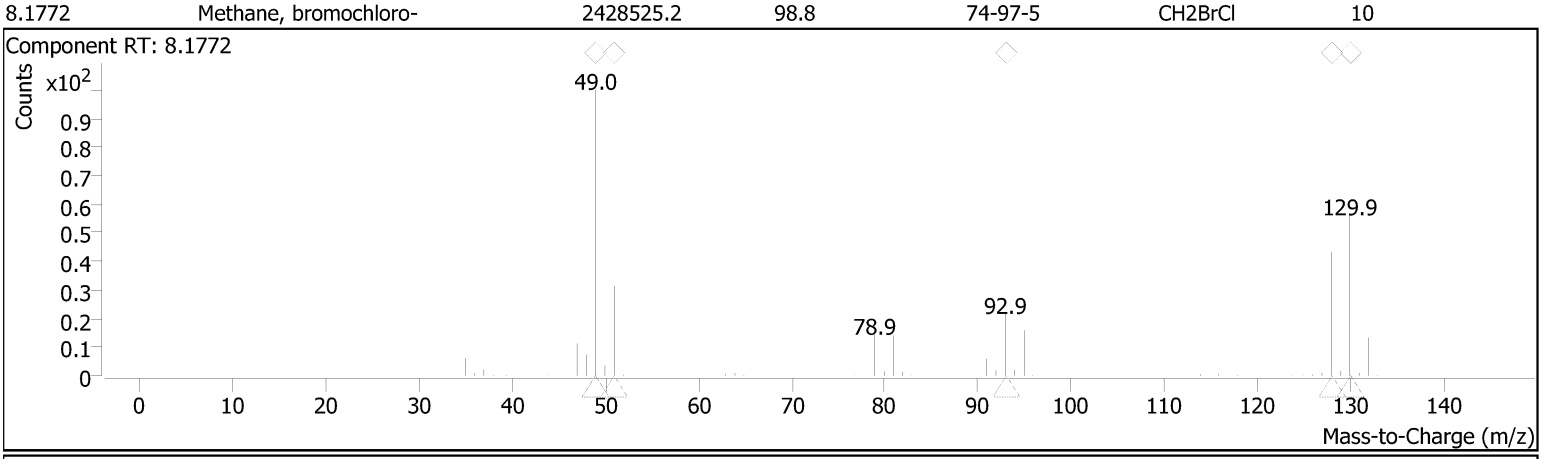



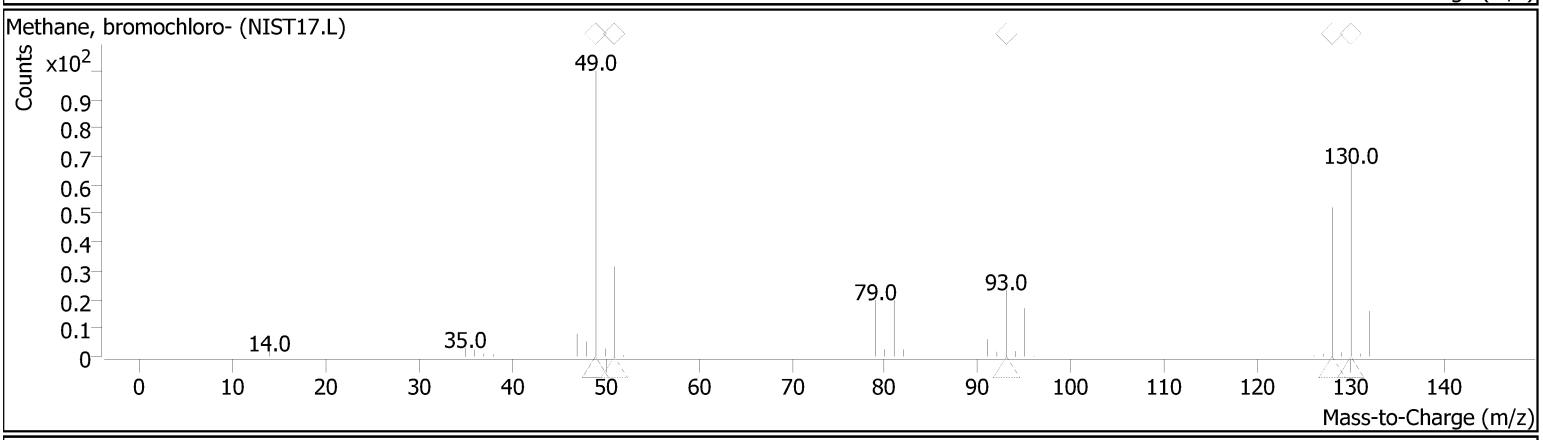



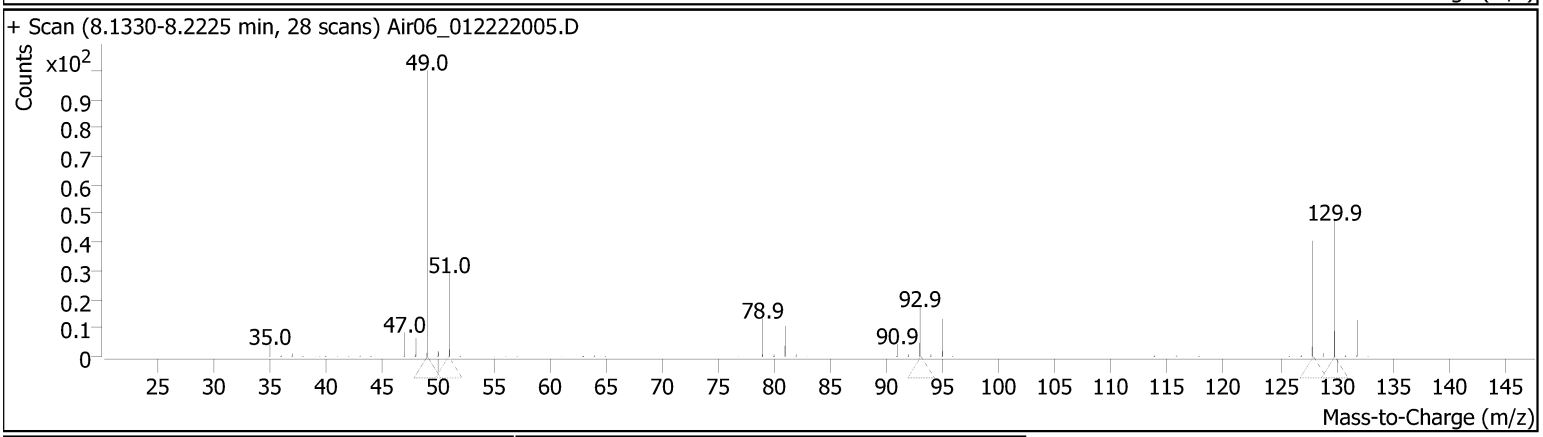



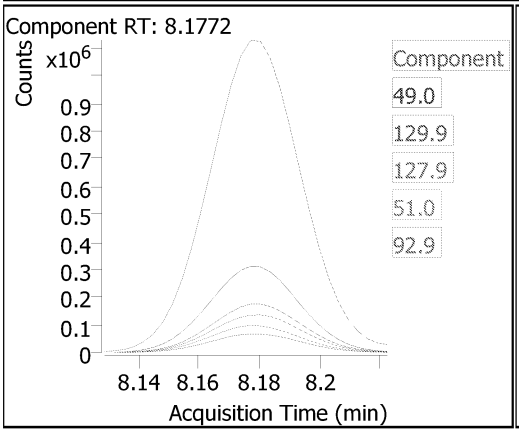



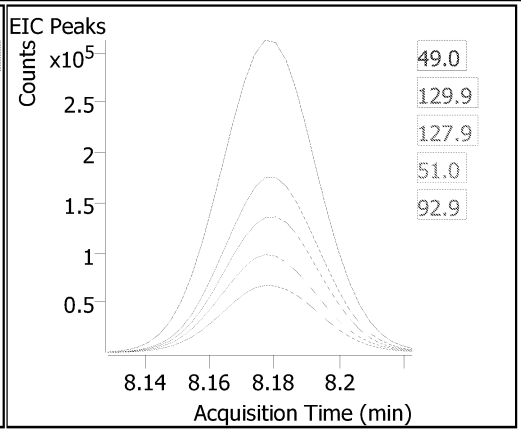
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.1772 | Methane, bromochloro- | 2428525.2 | 98.8 | 74-97-5 | CH2BrCl | 10 |

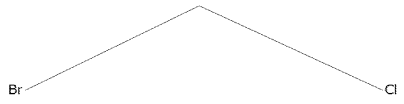


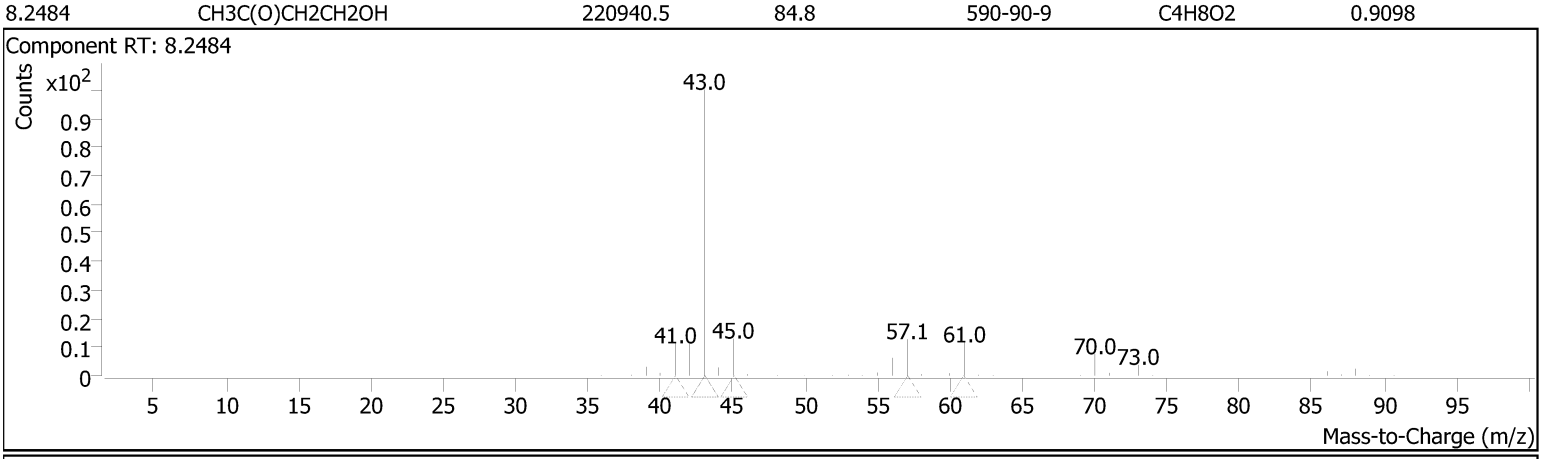



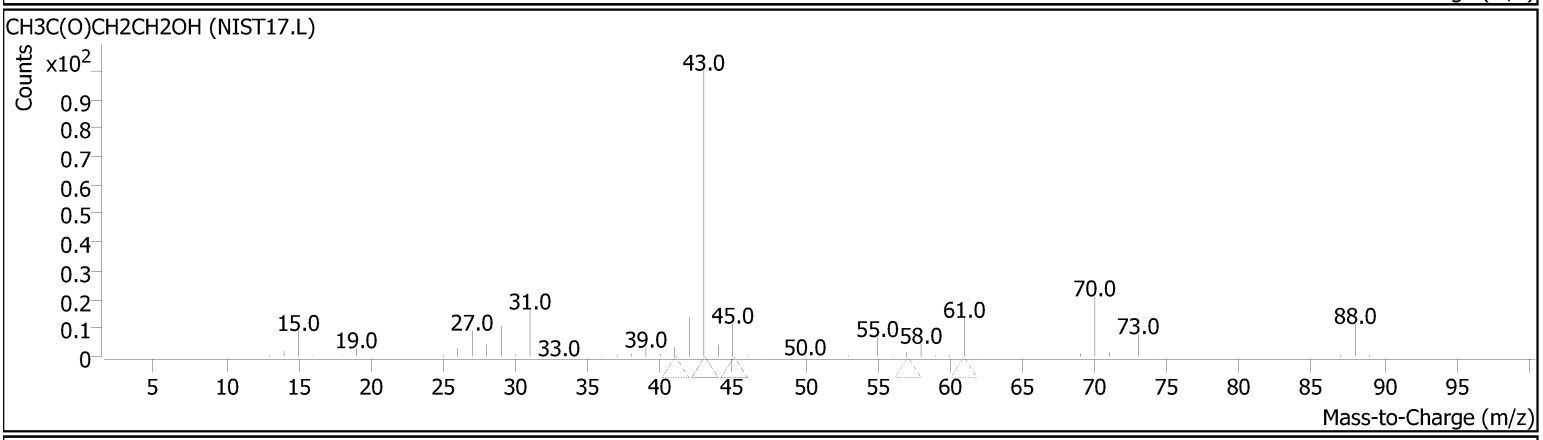



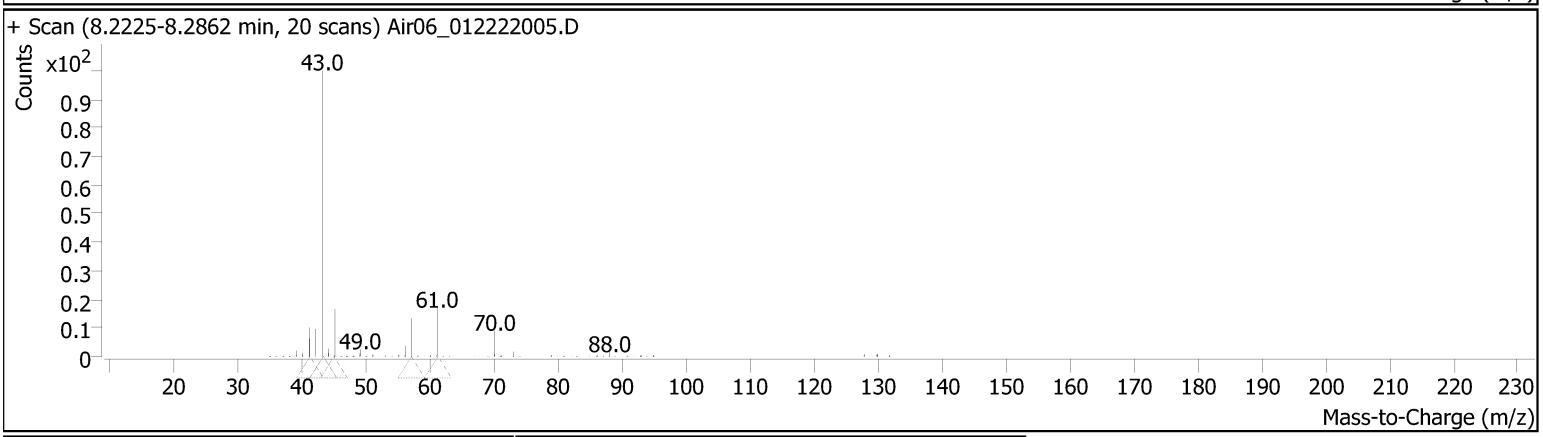



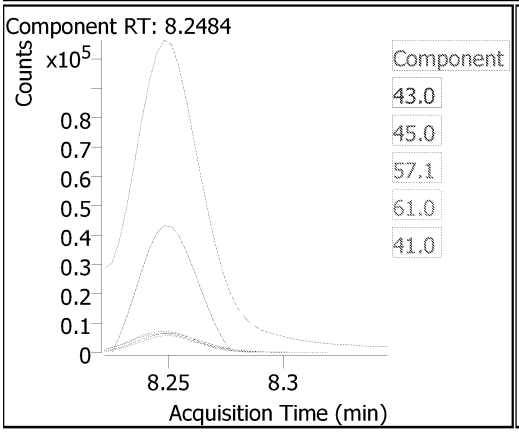



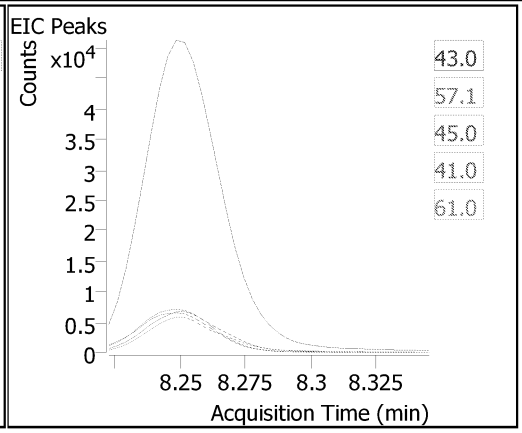
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.2484 | CH3C(O)CH2CH2OH | 220940.5 | 84.8 | 590-90-9 | C4H8O2 | 0.9098 |

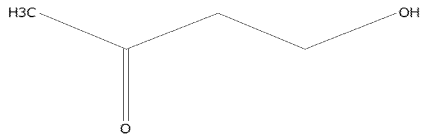


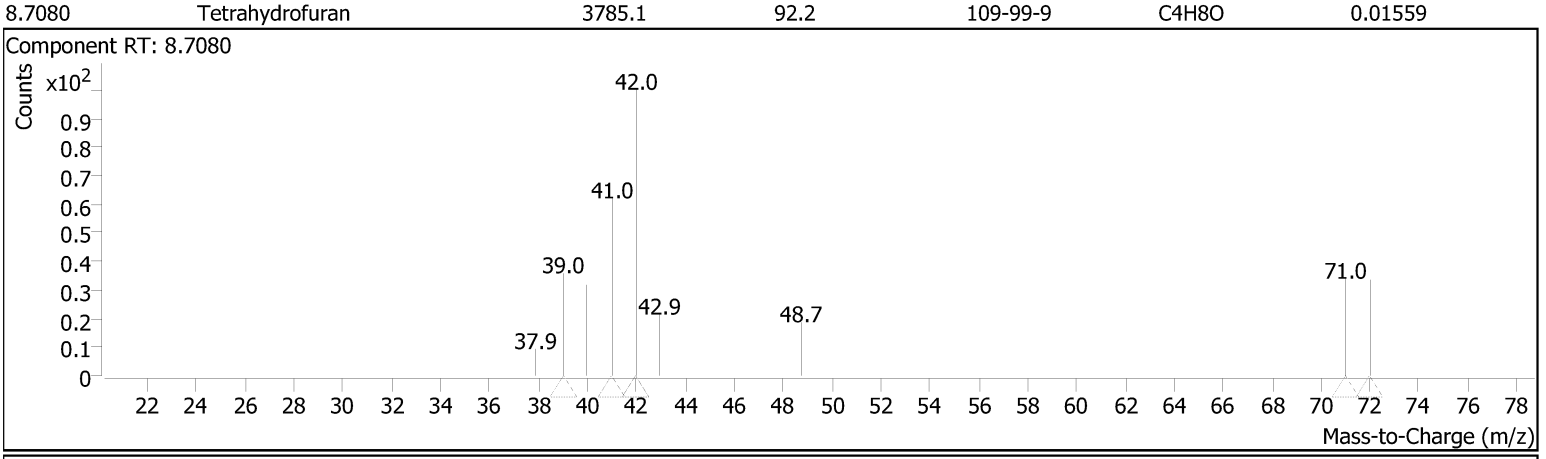



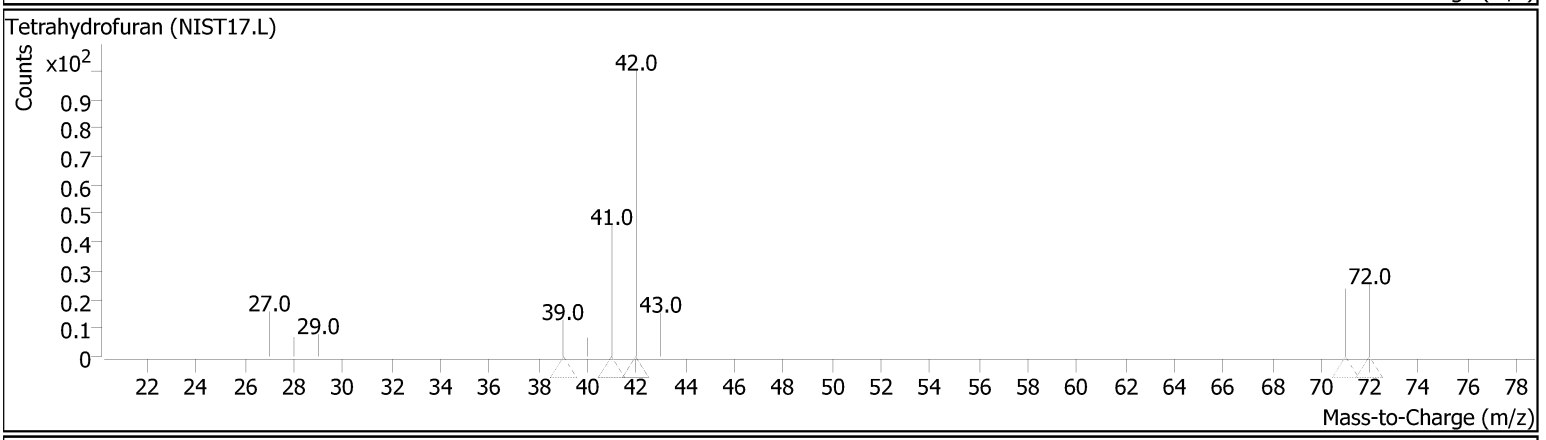



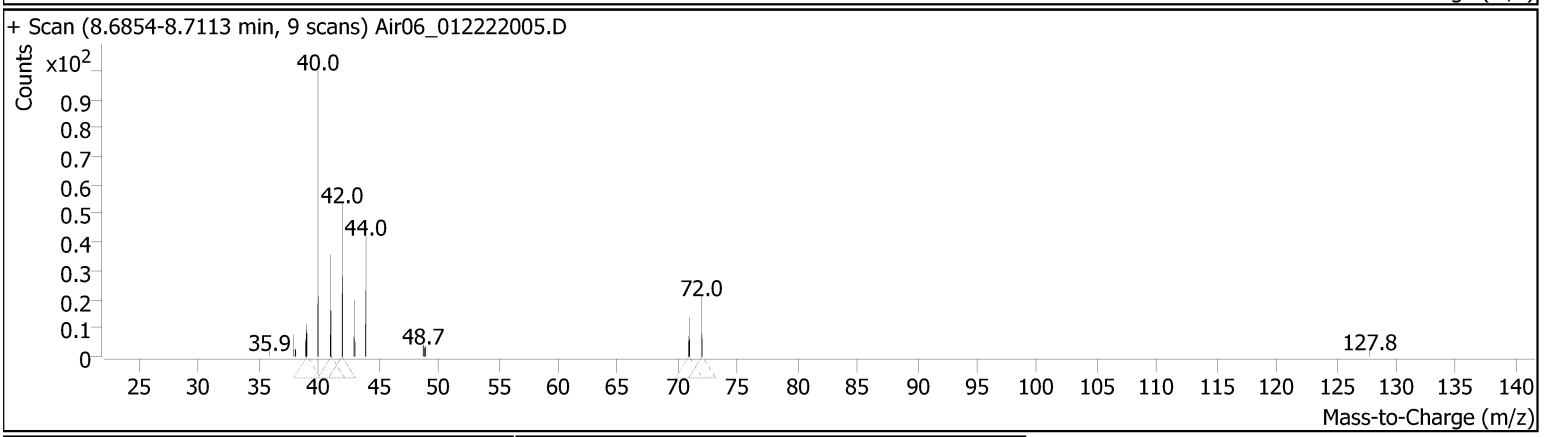



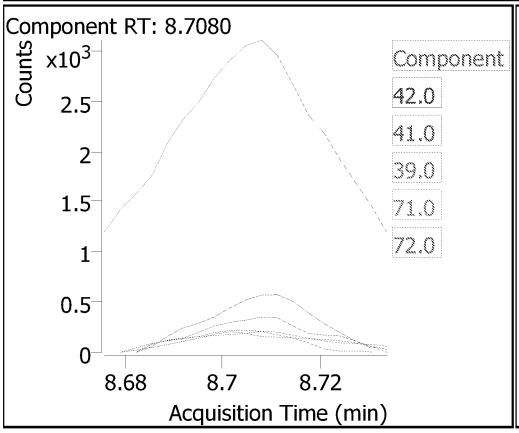



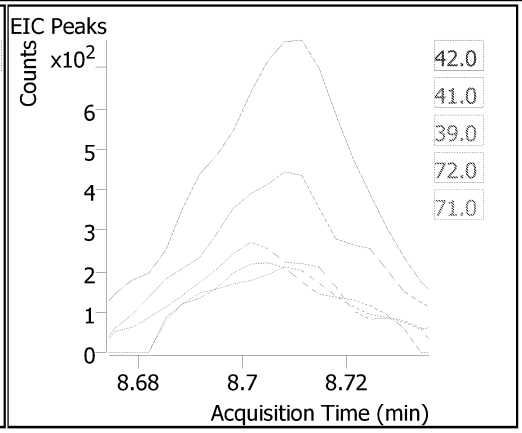
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.7080 | Tetrahydrofuran | 3785.1 | 92.2 | 109-99-9 | C4H8O | 0.01559 |

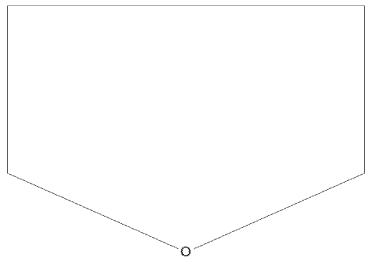


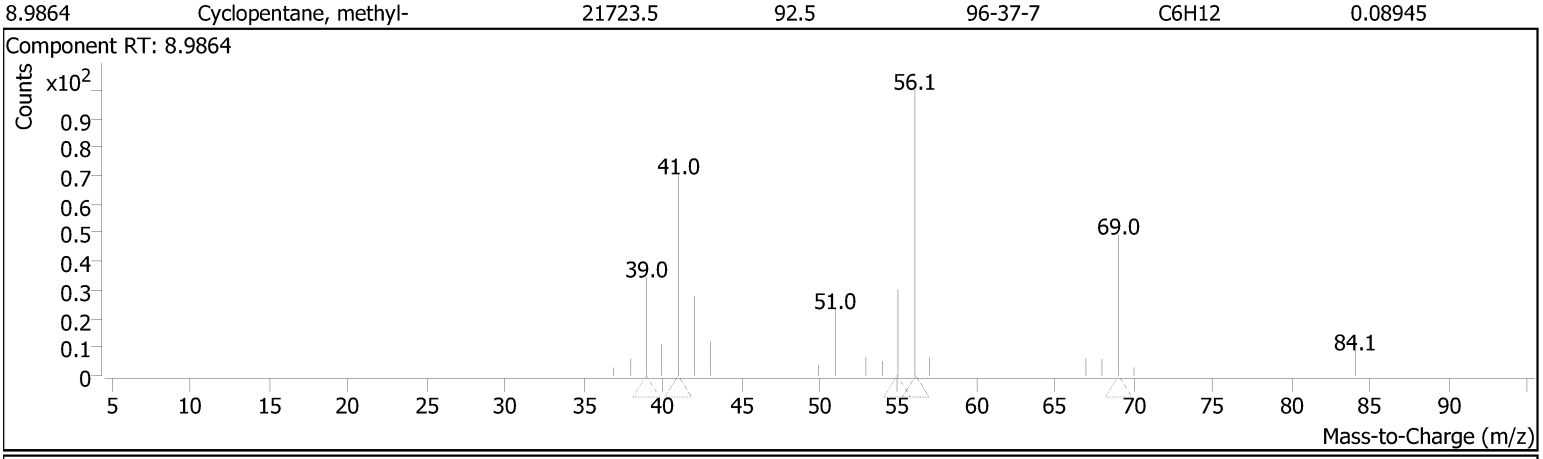



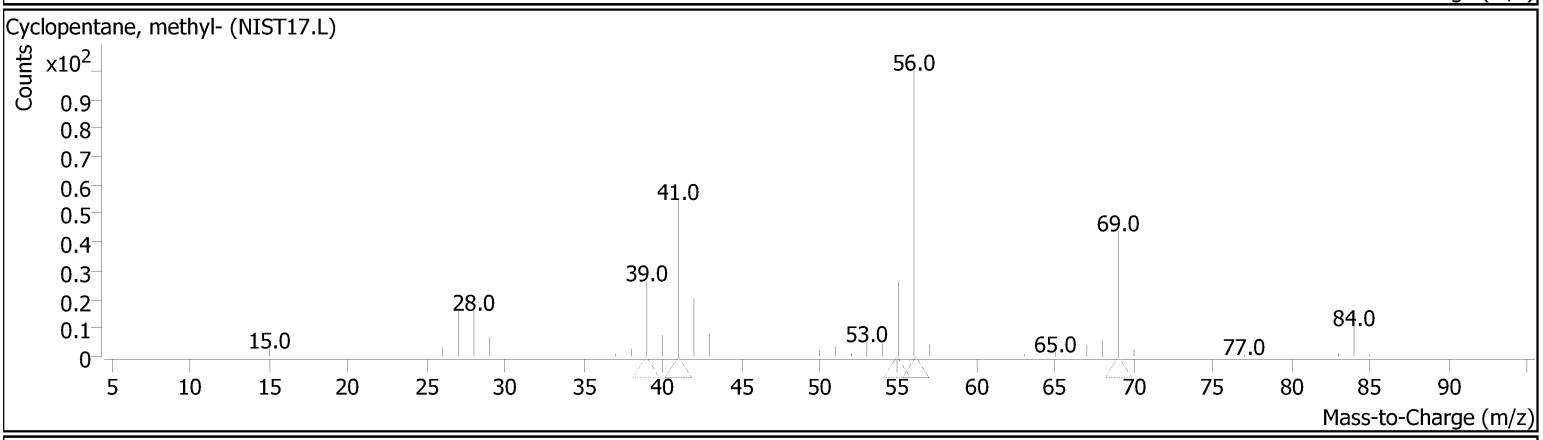



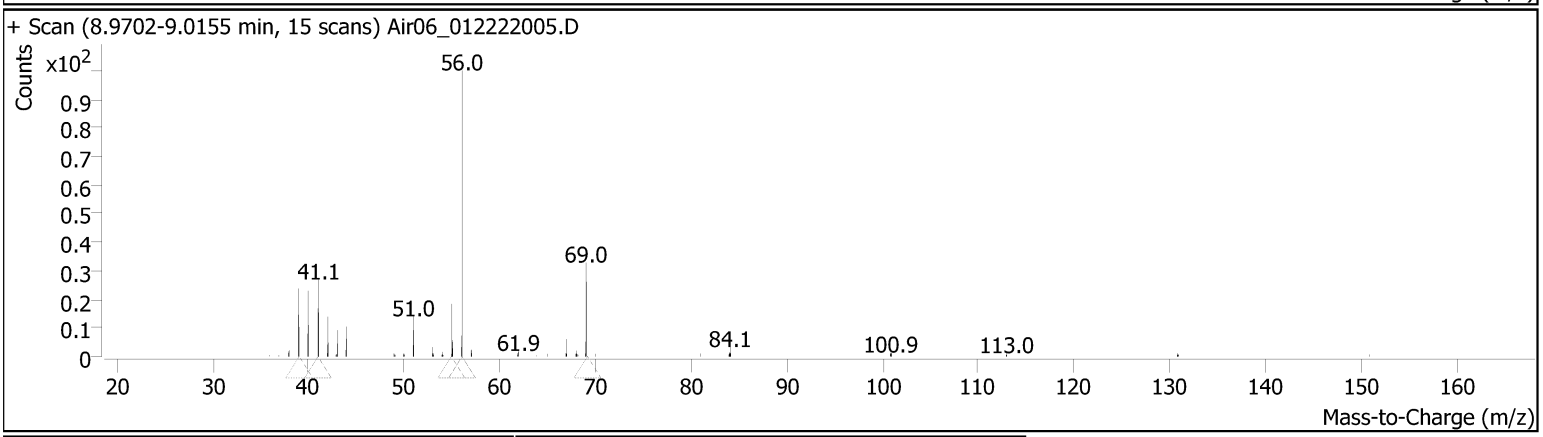



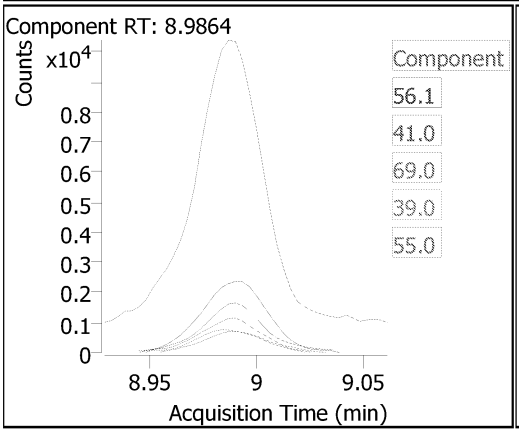



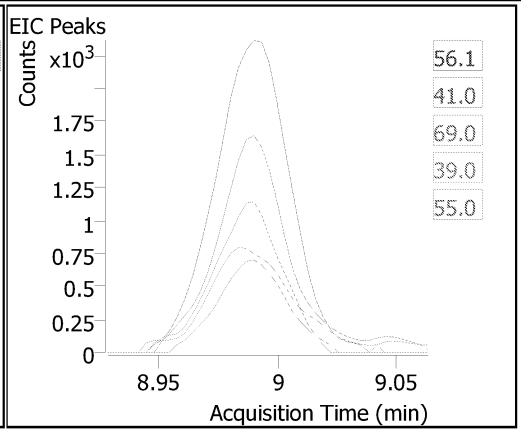
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 8.9864 | Cyclopentane, methyl- | 21723.5 | 92.5 | 96-37-7 | C6H12 | 0.08945 |

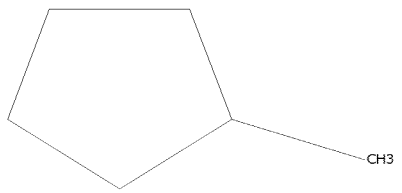


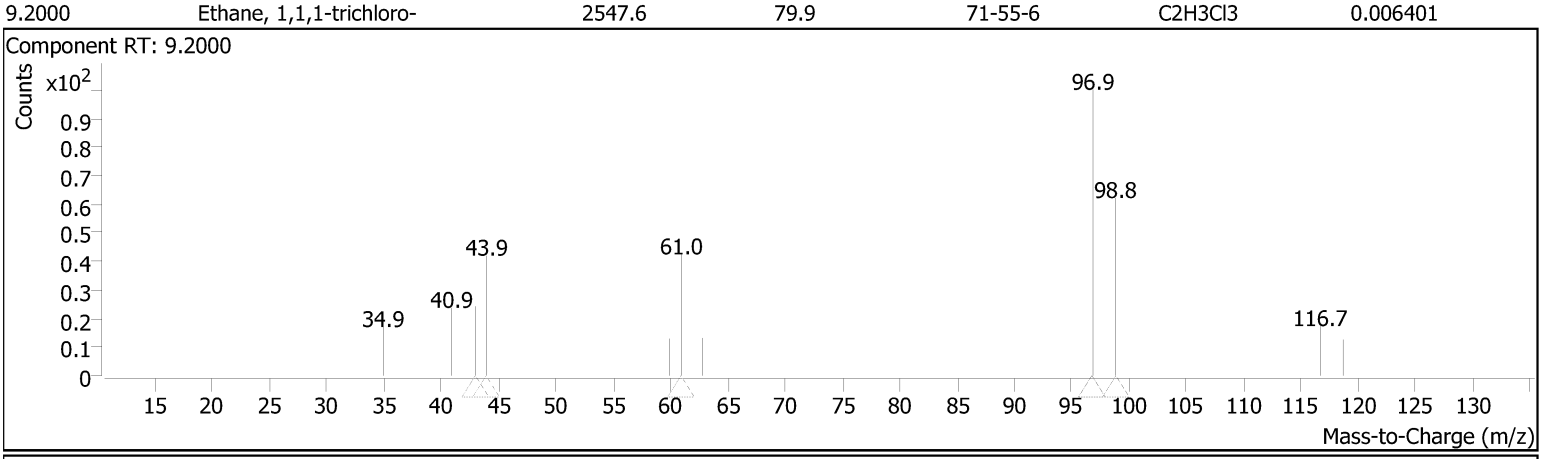



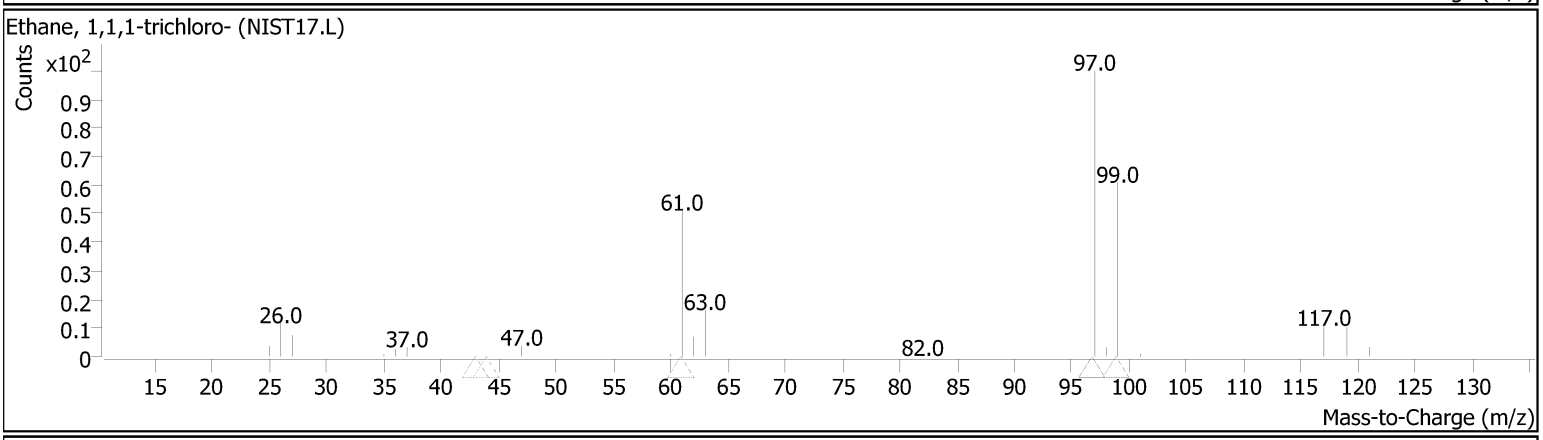



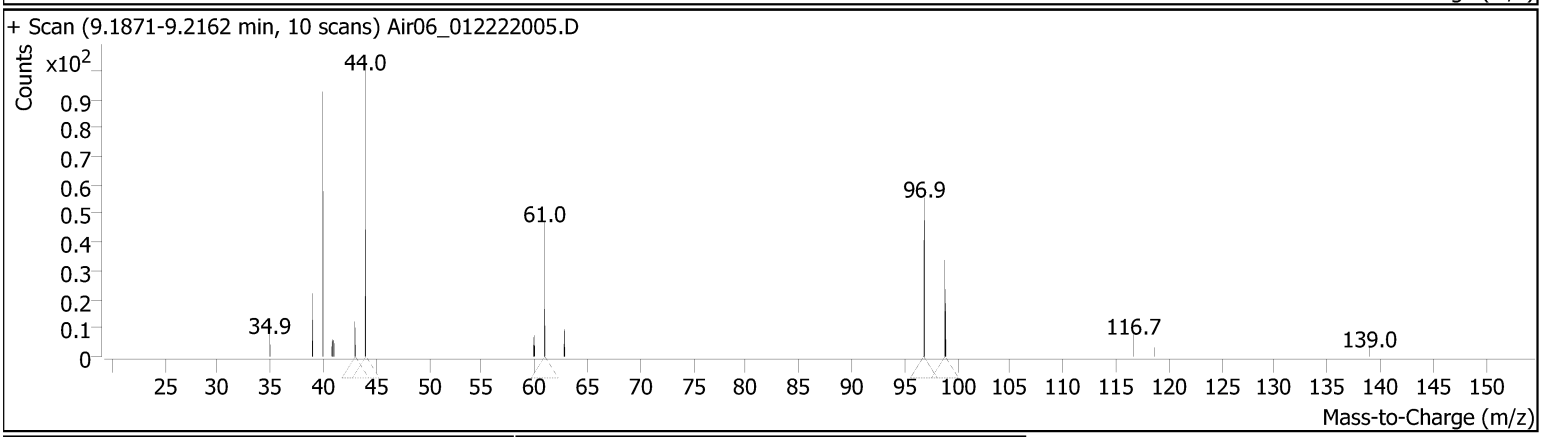



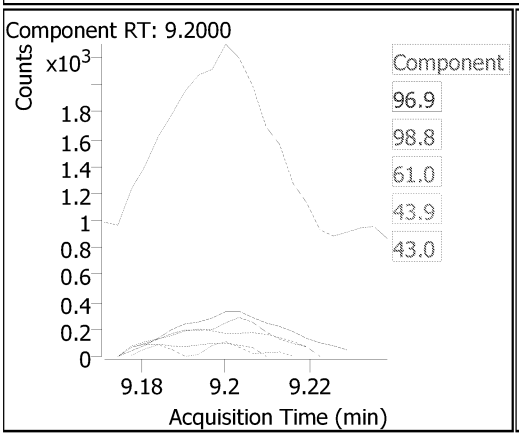



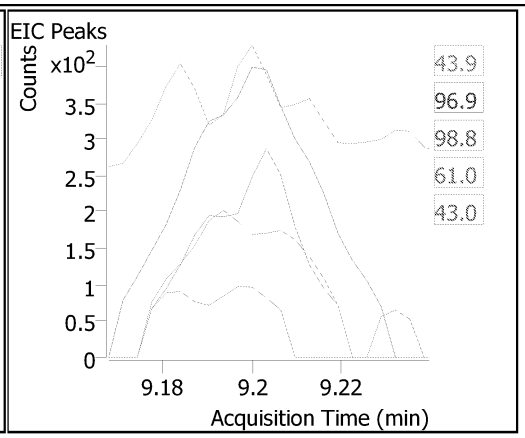
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.2000 | Ethane, 1,1,1-trichloro- | 2547.6 | 79.9 | 71-55-6 | C2H3Cl3 | 0.006401 |

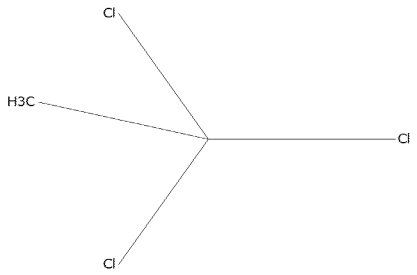


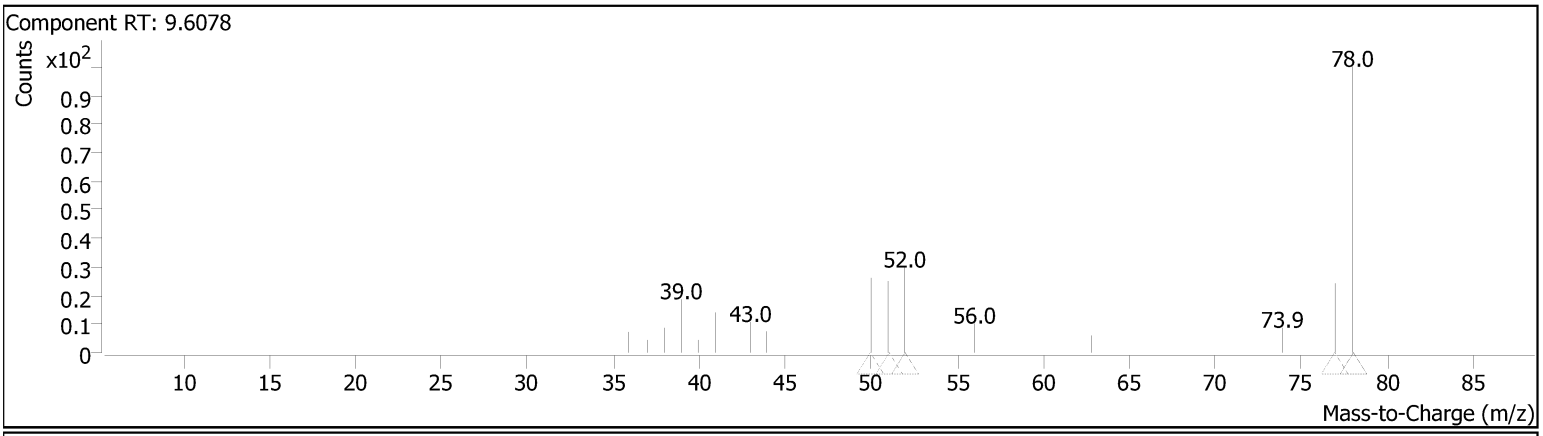



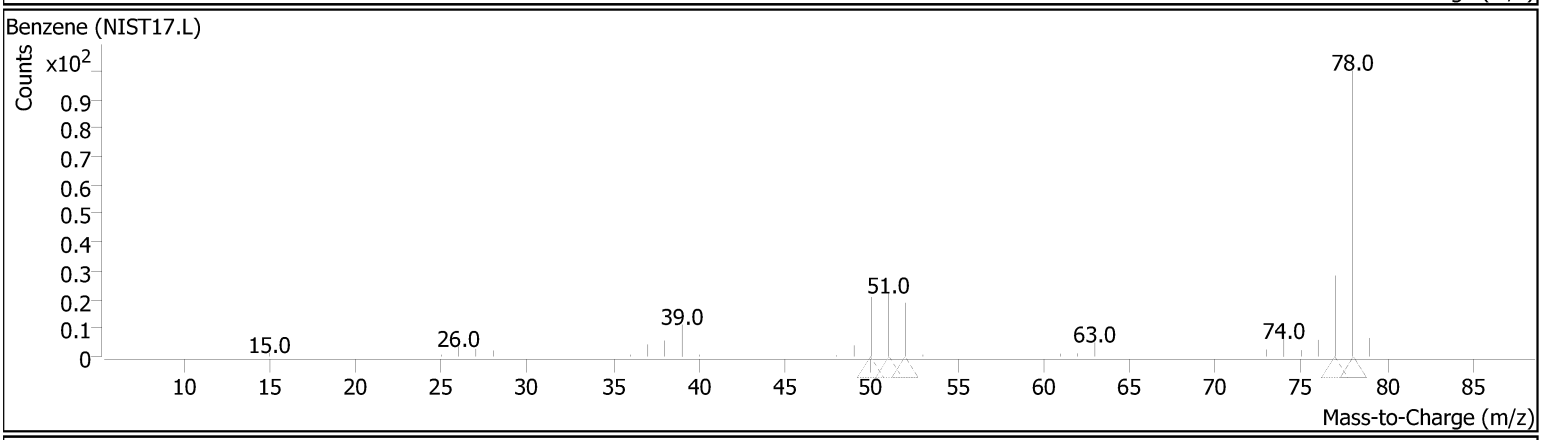



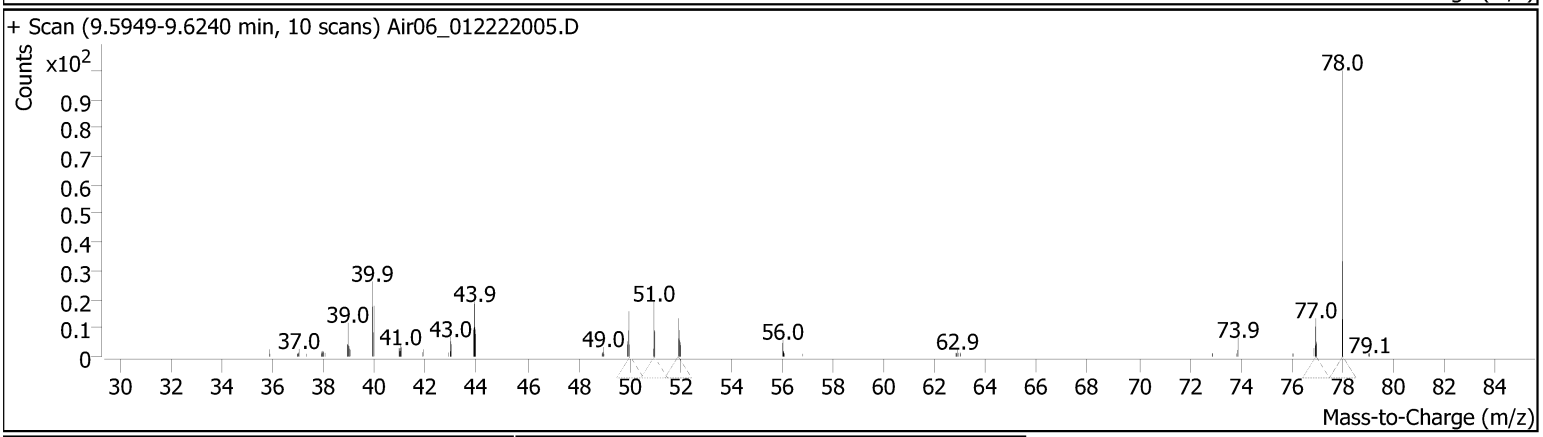



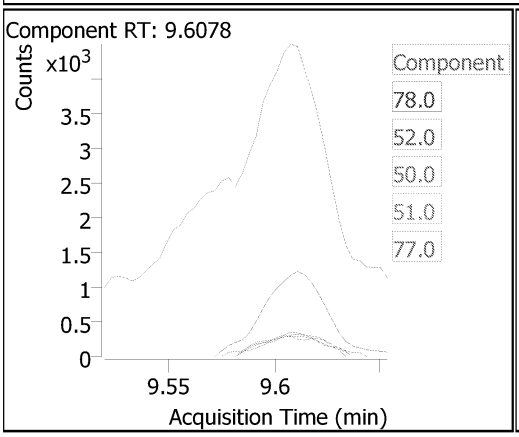



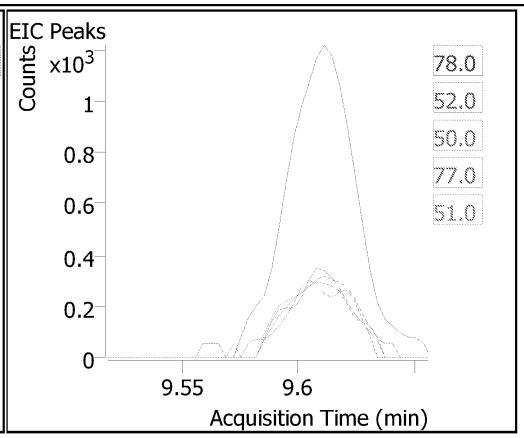
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.6078 | Benzene | 10685.7 | 79.2 | 71-43-2 | C6H6 | 0.02685 |

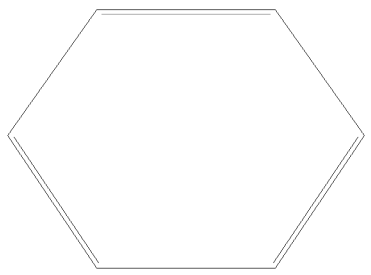


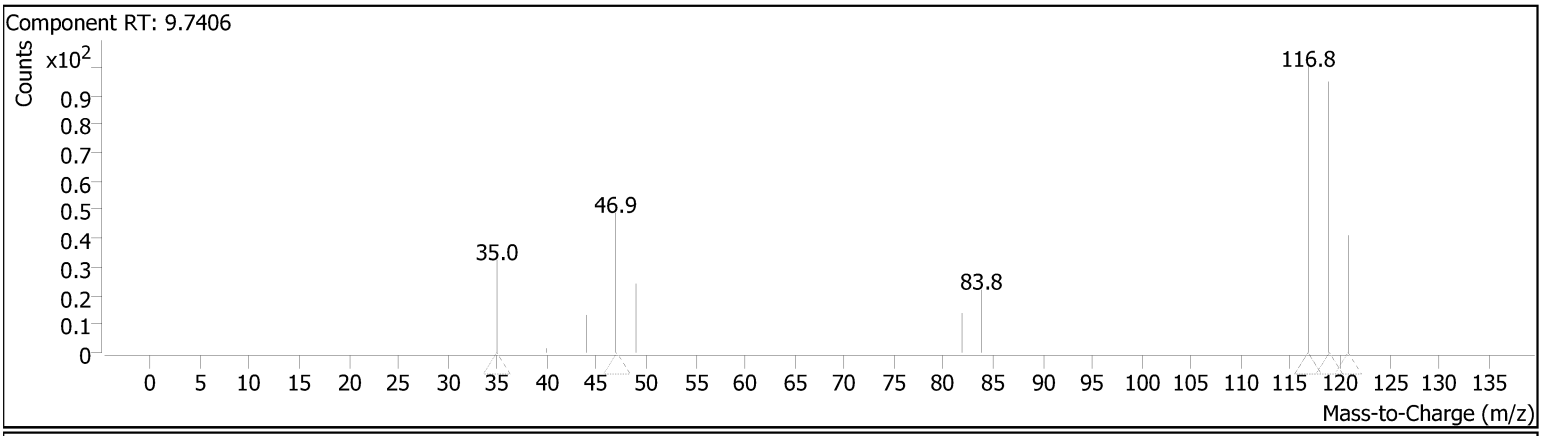



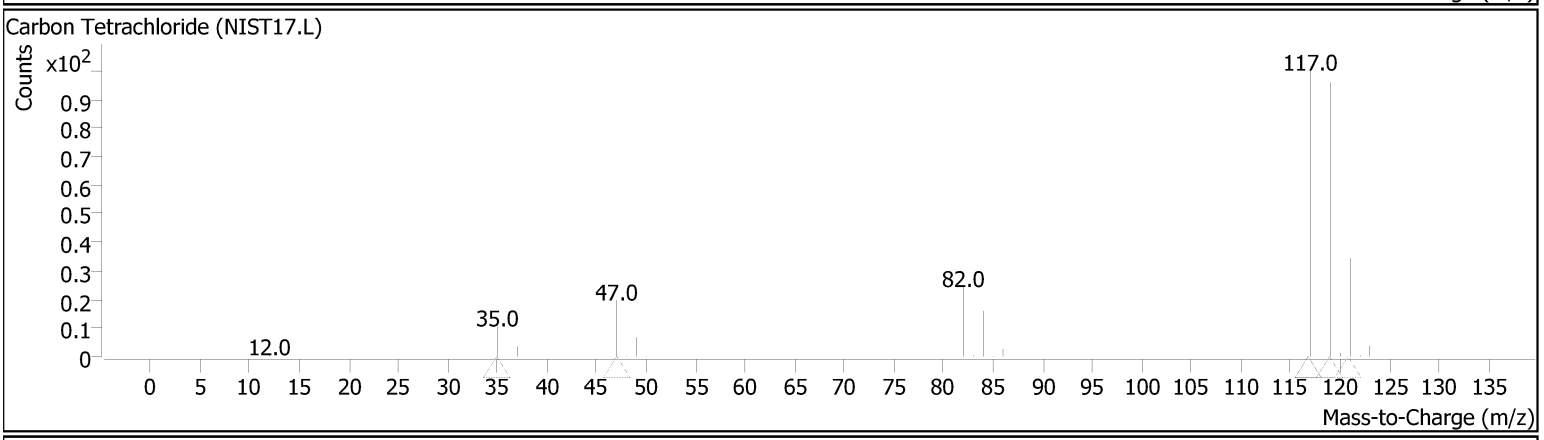



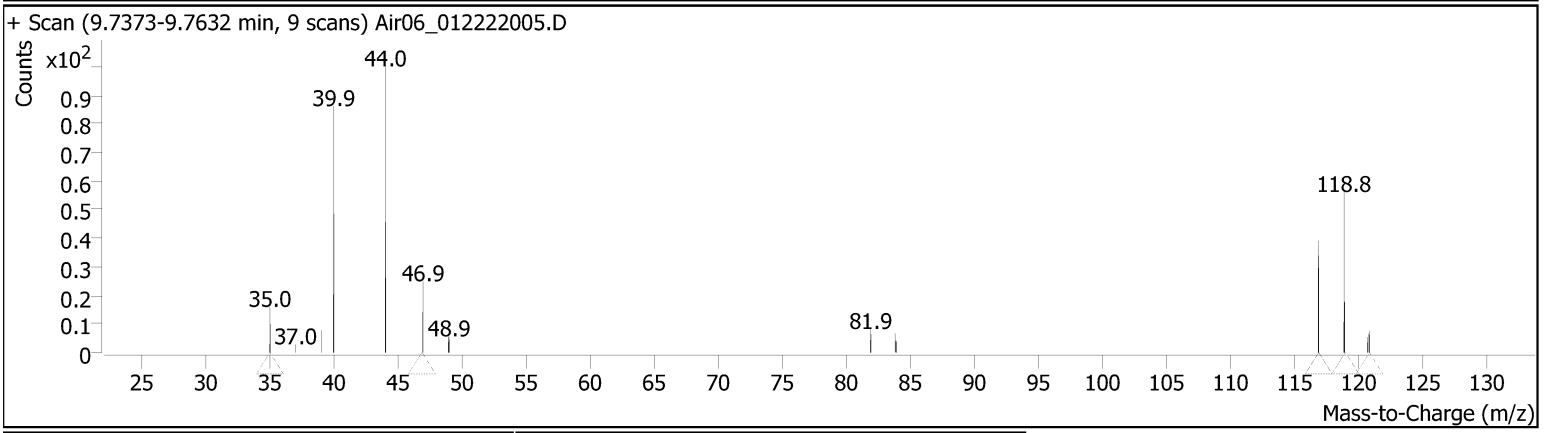



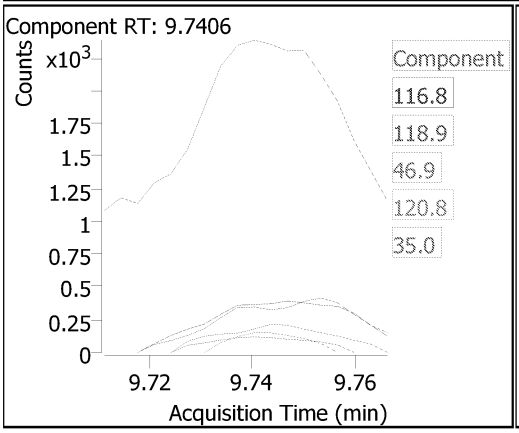



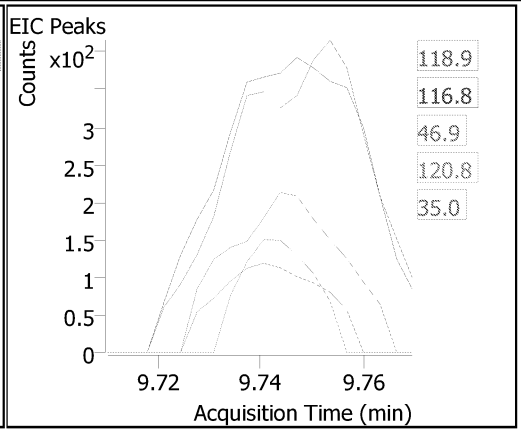
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.7406 | Carbon Tetrachloride | 2409.0 | 92.8 | 56-23-5 | CCl4 | 0.006053 |

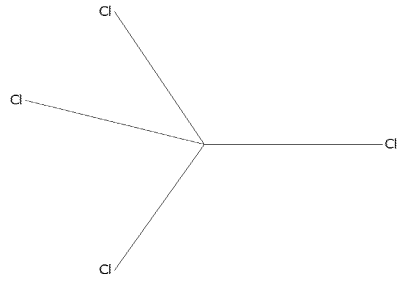


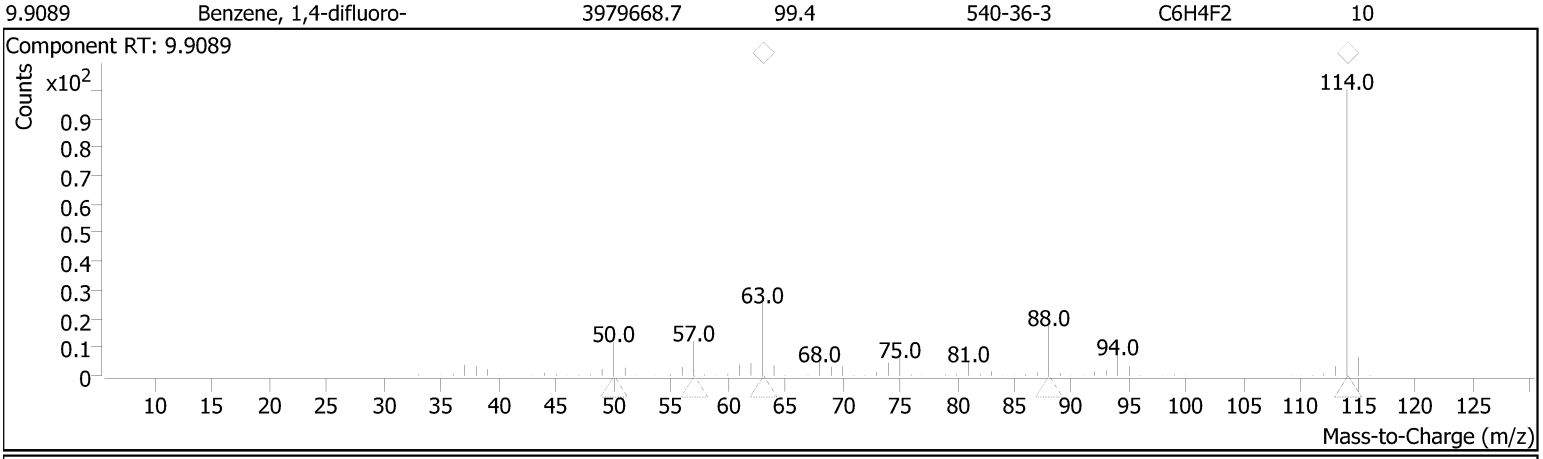



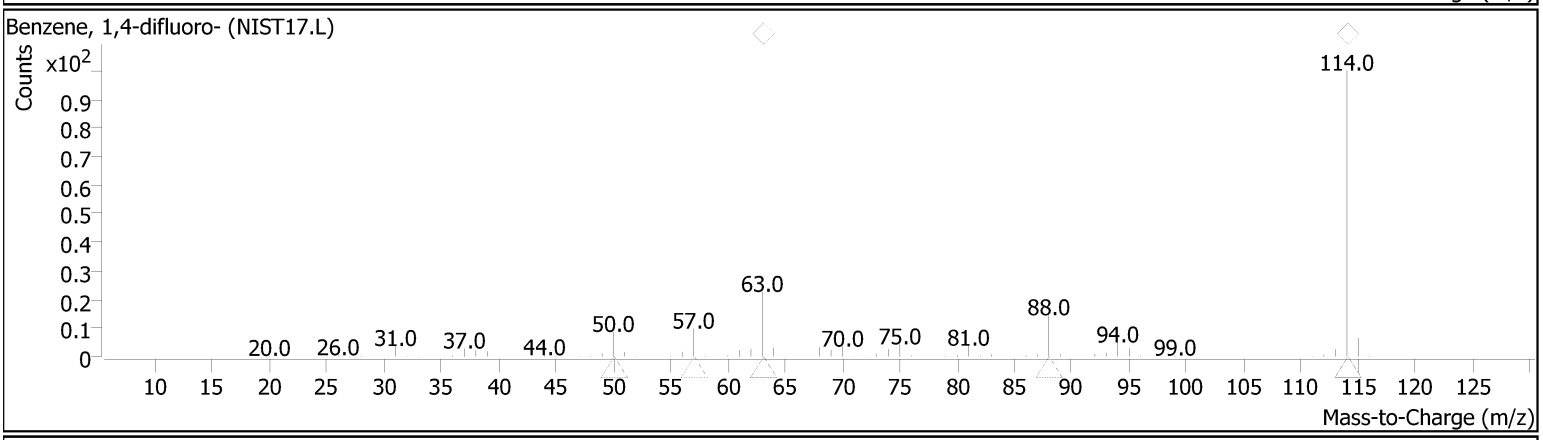



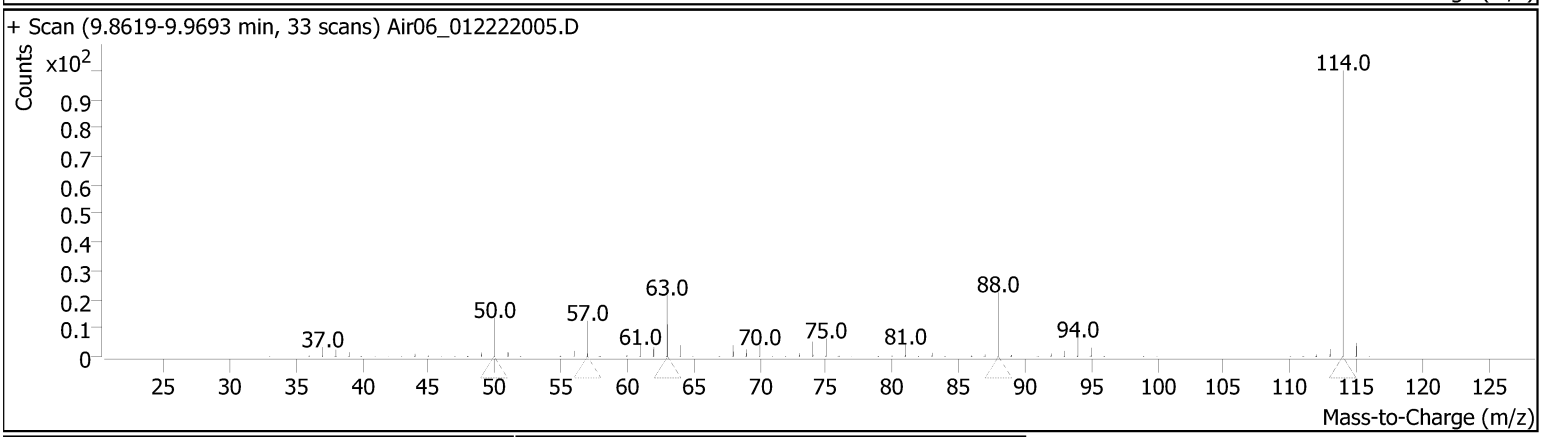



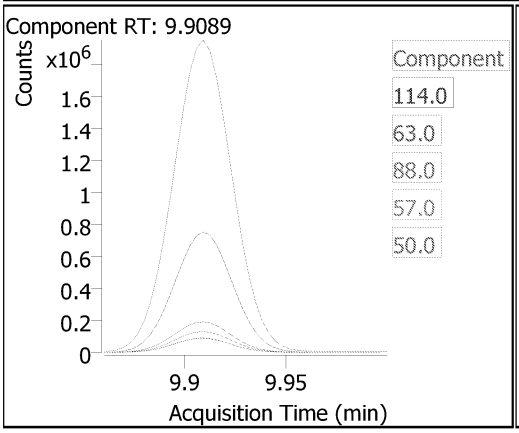



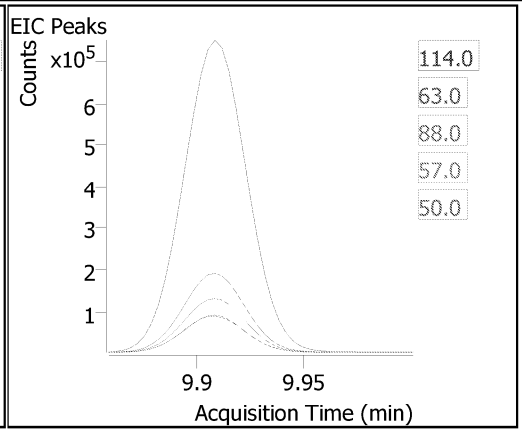
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 9.9089 | Benzene, 1,4-difluoro- | 3979668.7 | 99.4 | 540-36-3 | C6H4F2 | 10 |



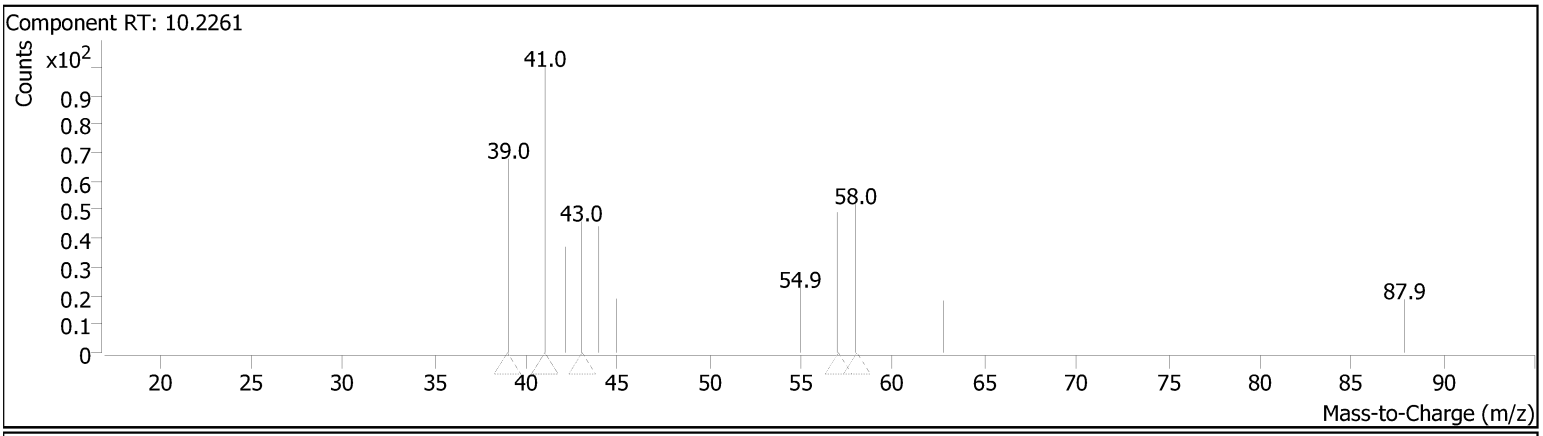



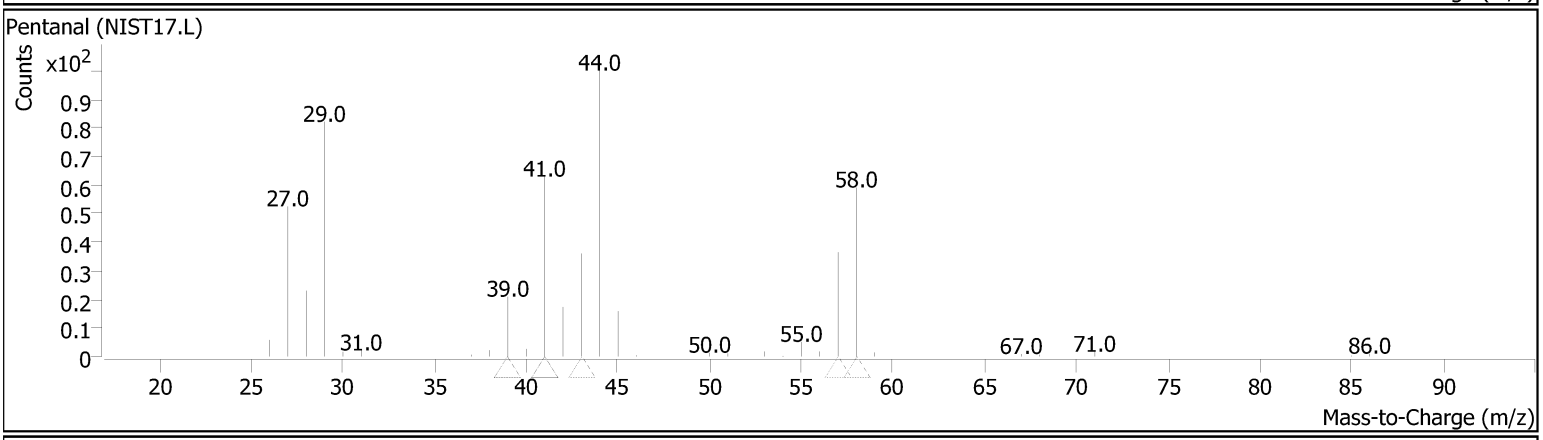



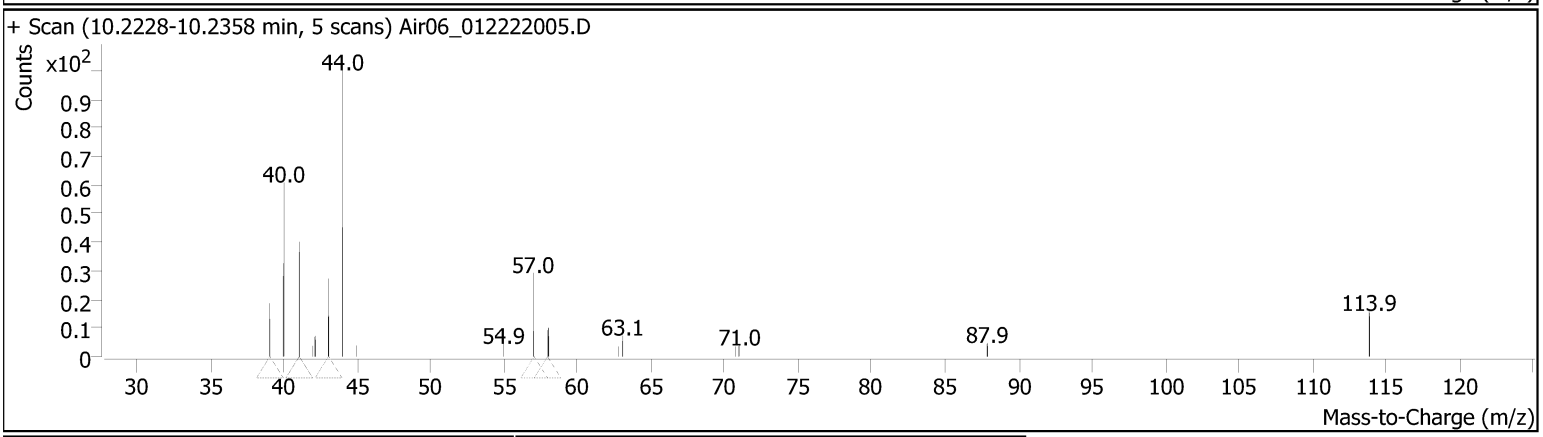



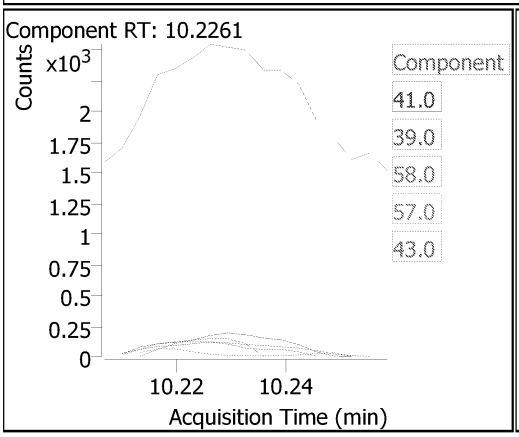


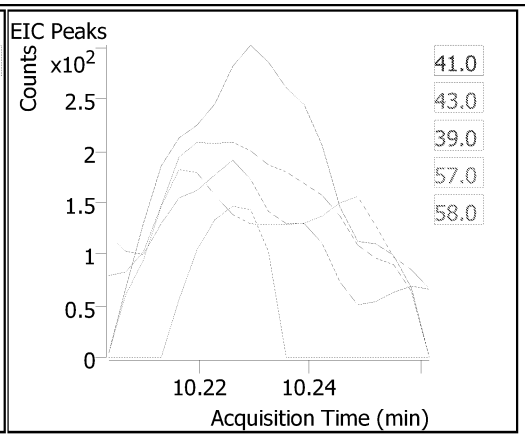

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.2261 | Pentanal | 2244.1 | 80.6 | 110-62-3 | C5H10O | 0.005639 |



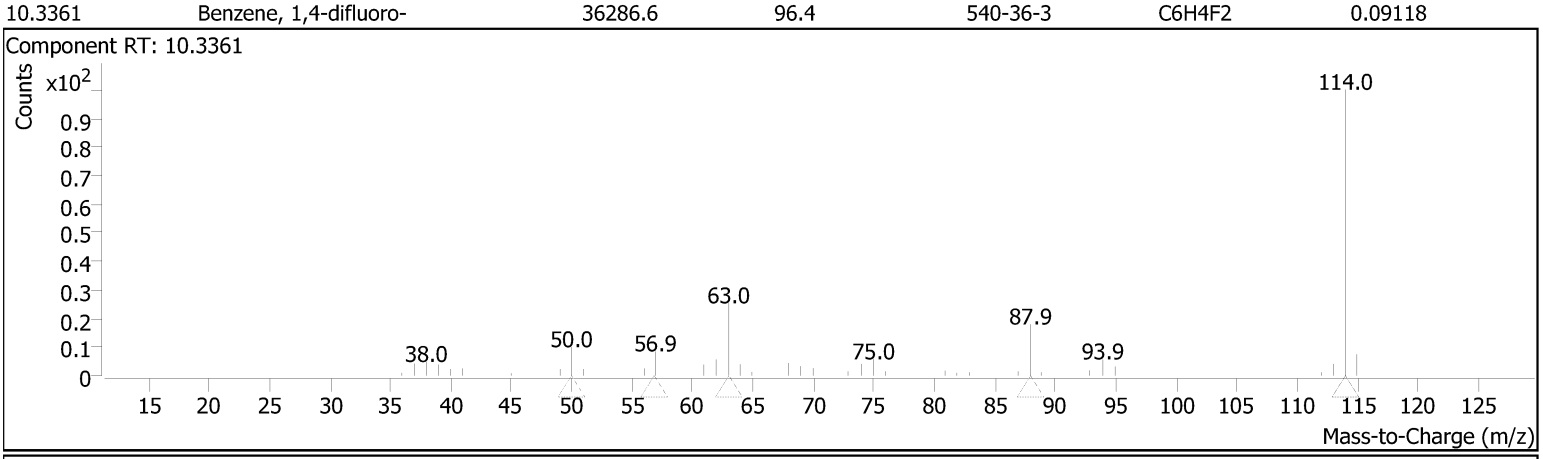



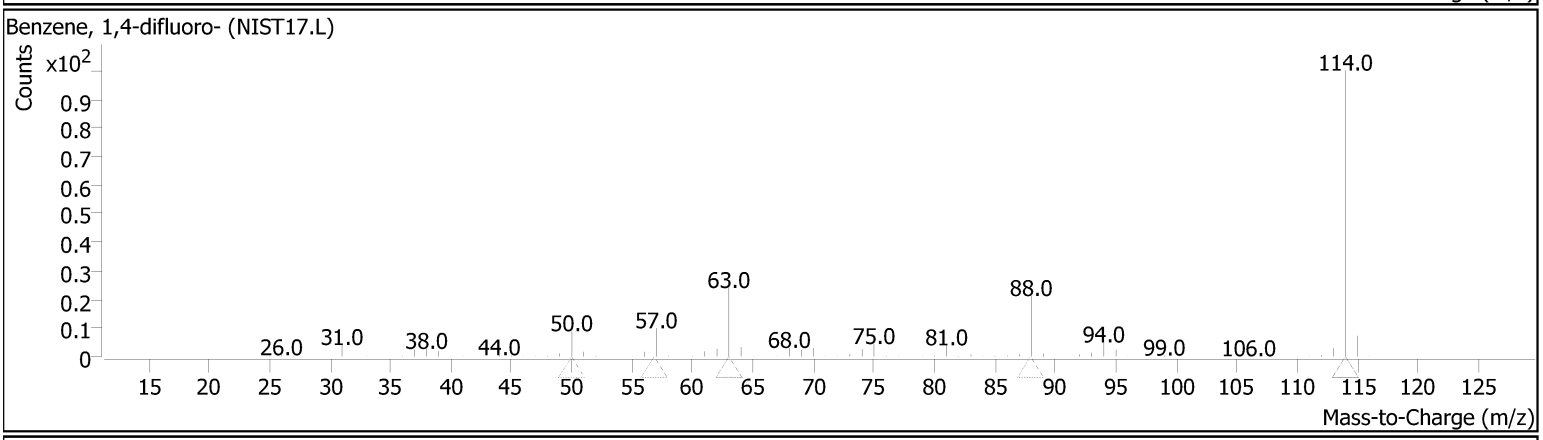



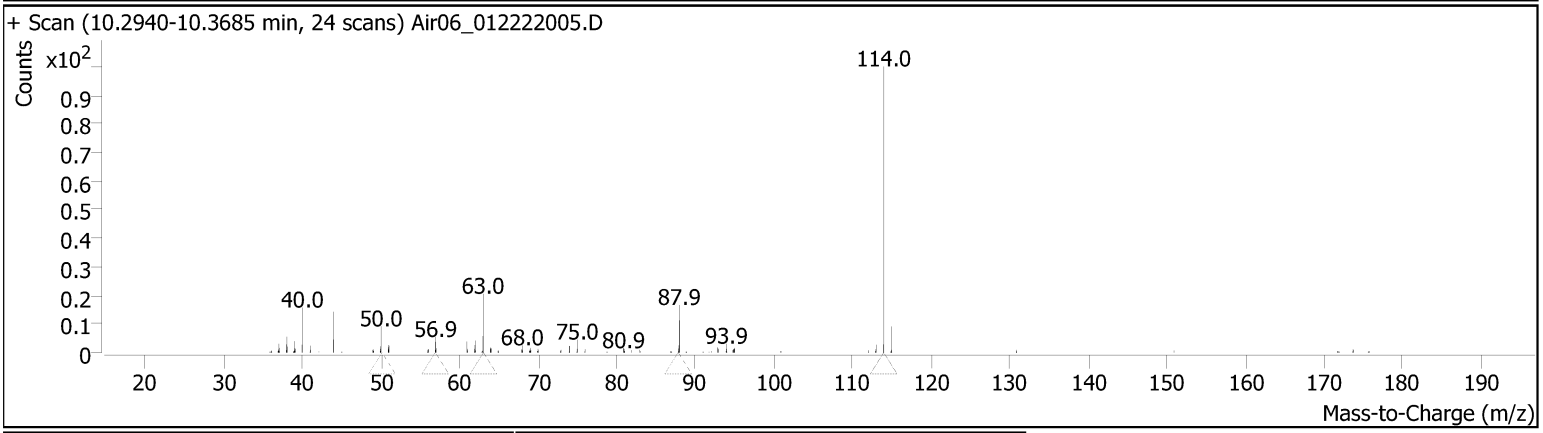



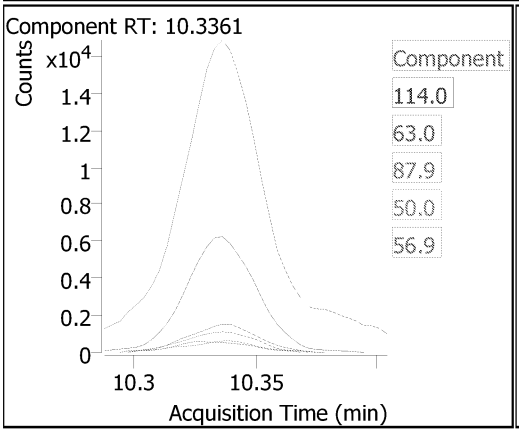


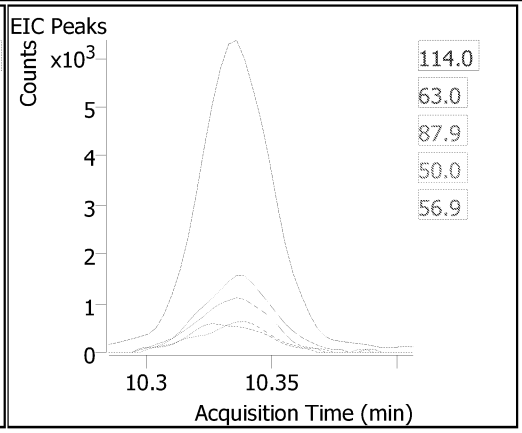

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.3361 | Benzene, 1,4-difluoro- | 36286.6 | 96.4 | 540-36-3 | C6H4F2 | 0.09118 |

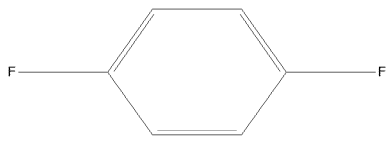


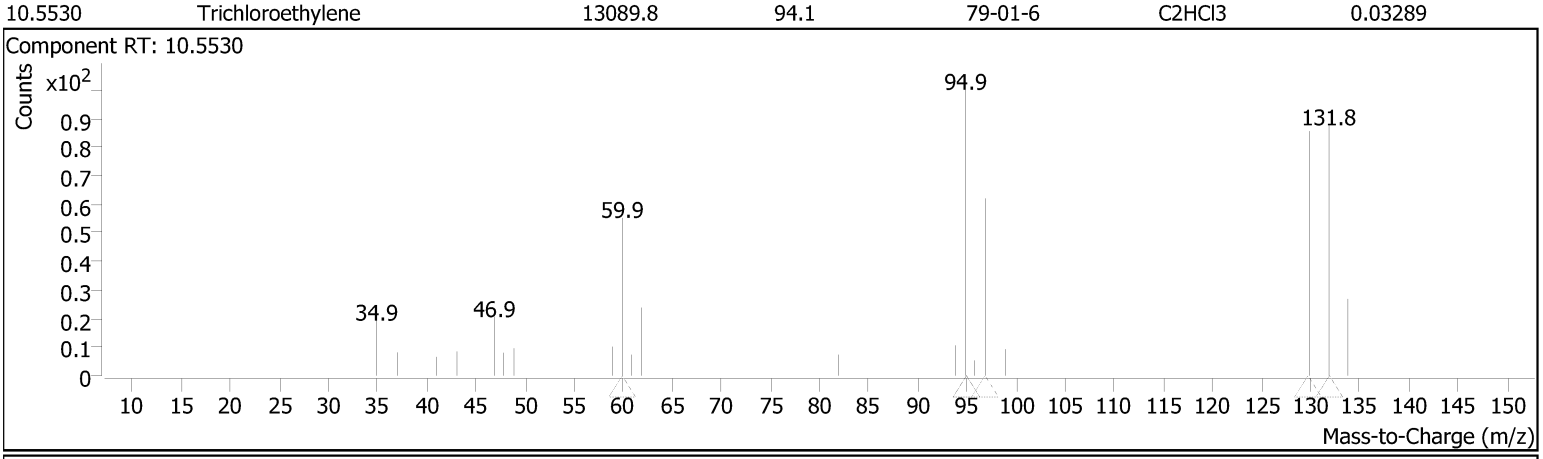



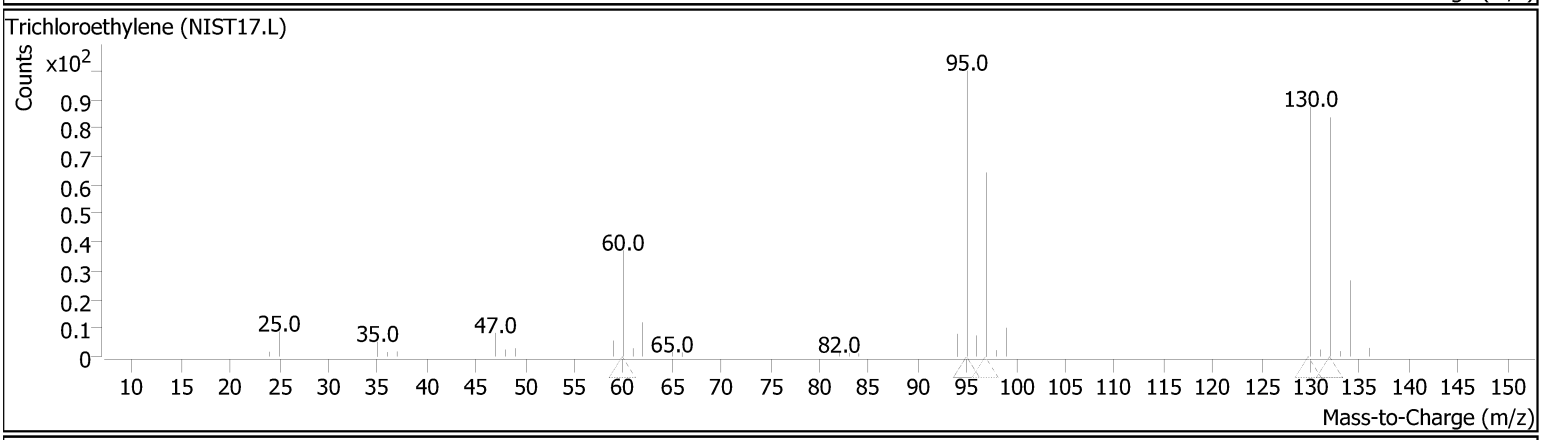



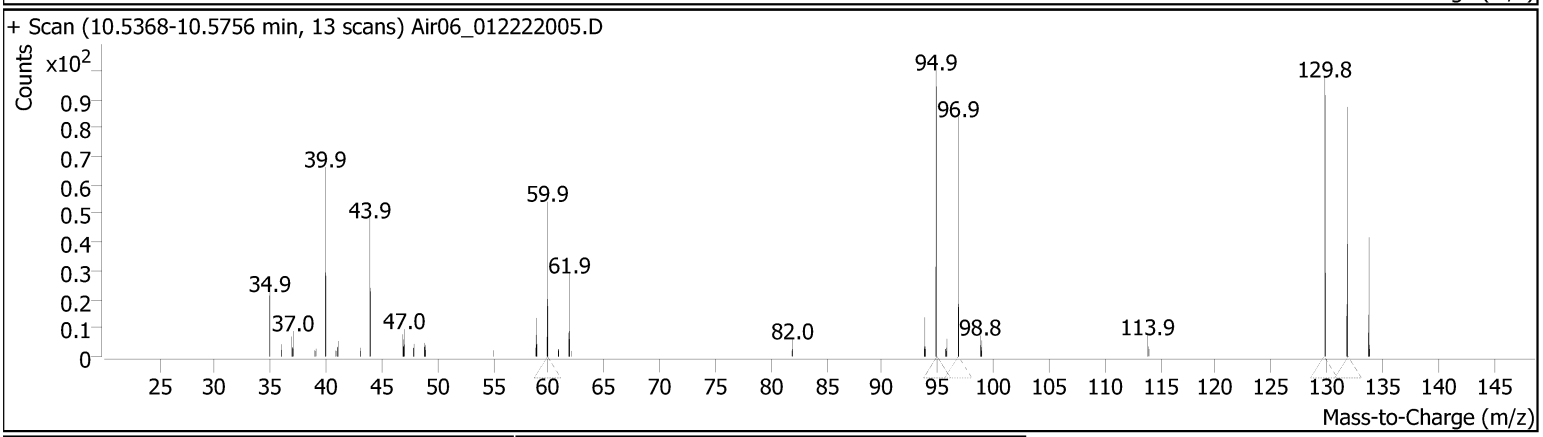



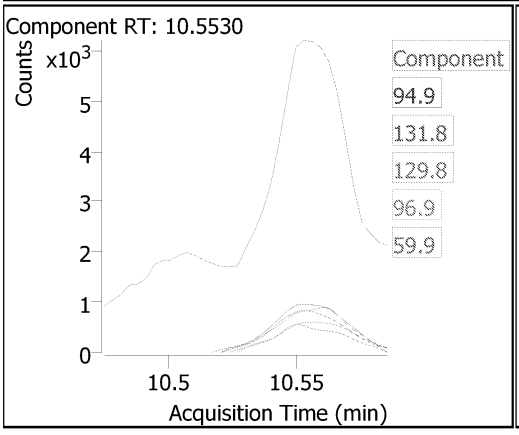



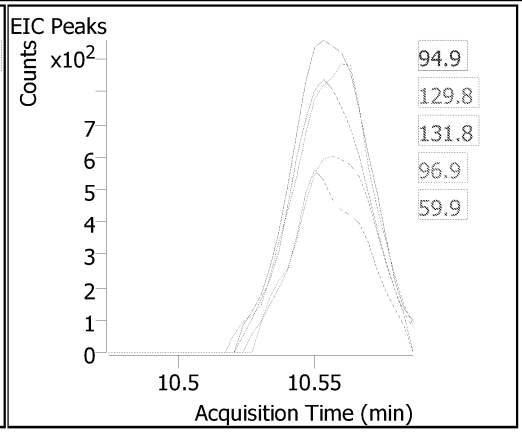
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.5530 | Trichloroethylene | 13089.8 | 94.1 | 79-01-6 | C2HCl3 | 0.03289 |

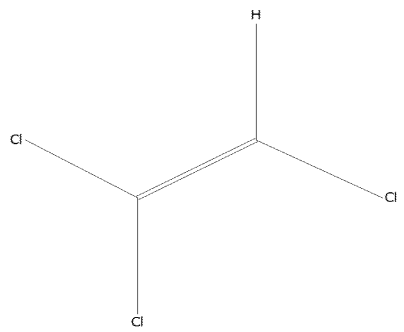


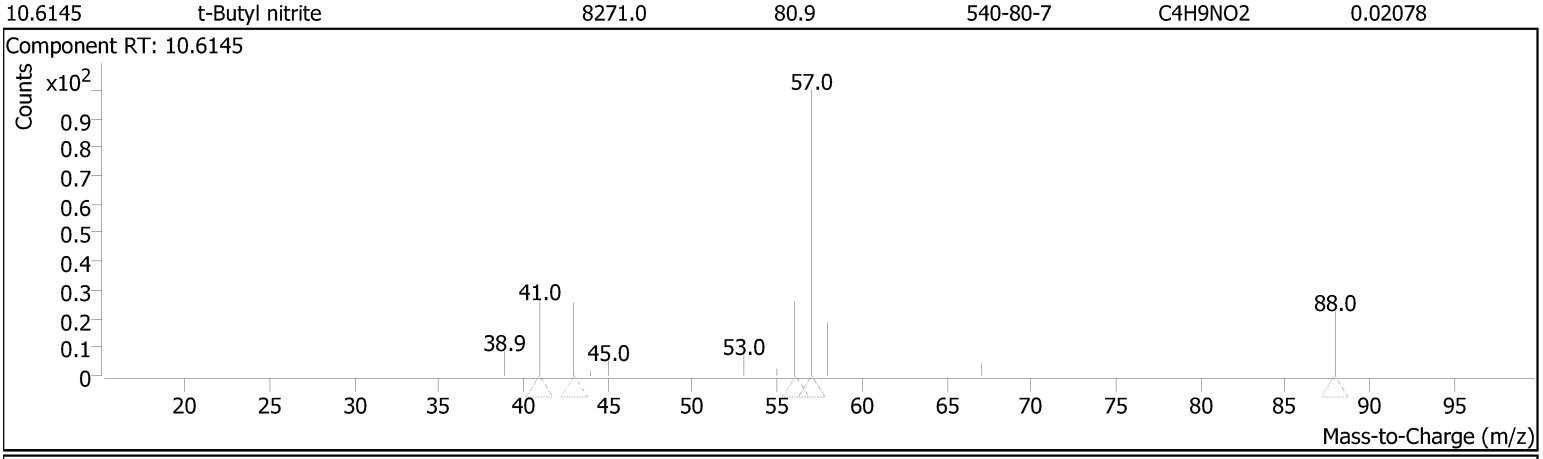



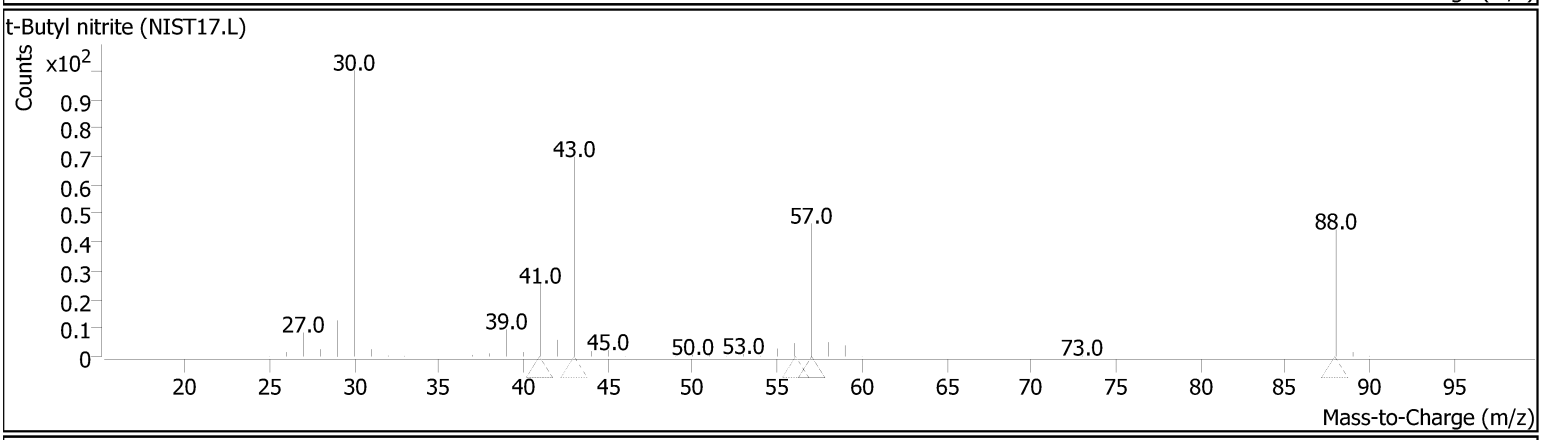



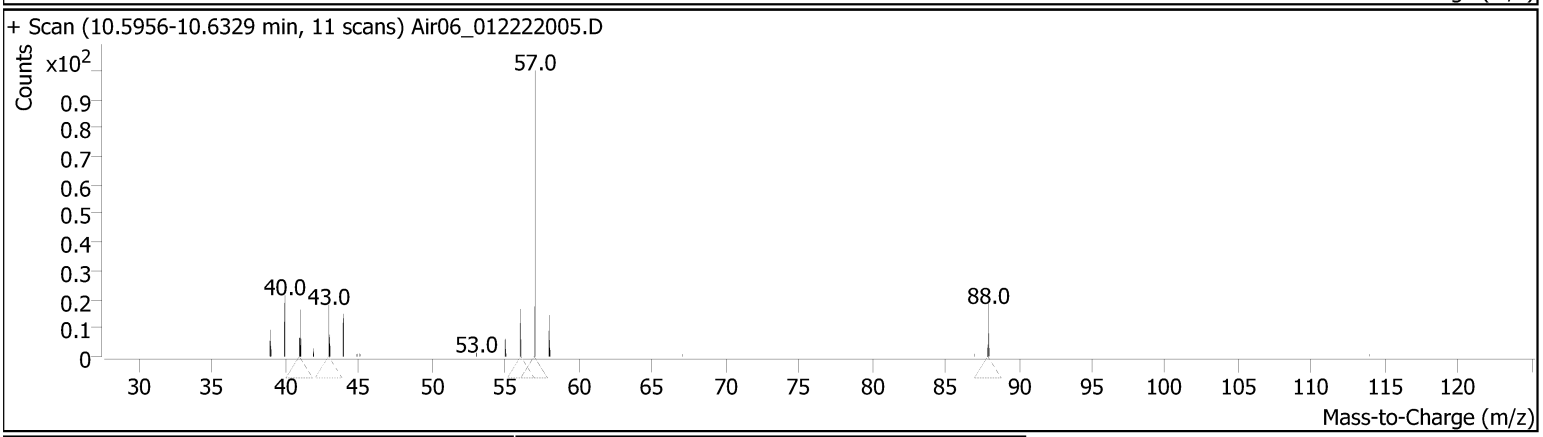



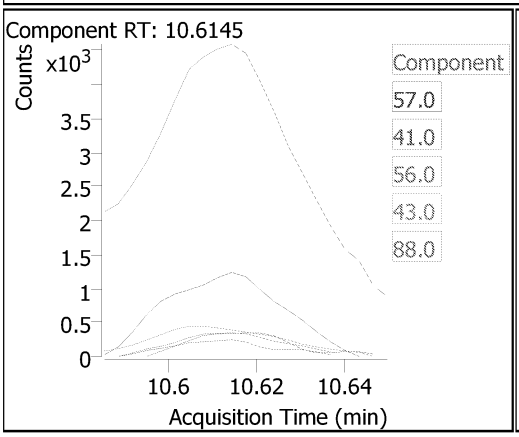



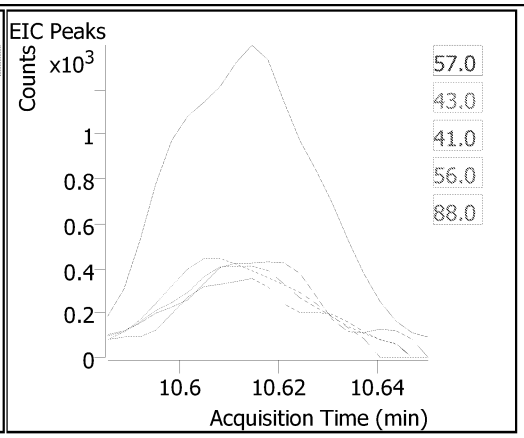
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.6145 | t-Butyl nitrite | 8271.0 | 80.9 | 540-80-7 | C4H9NO2 | 0.02078 |

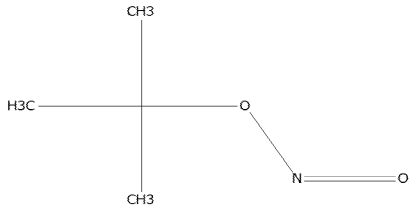


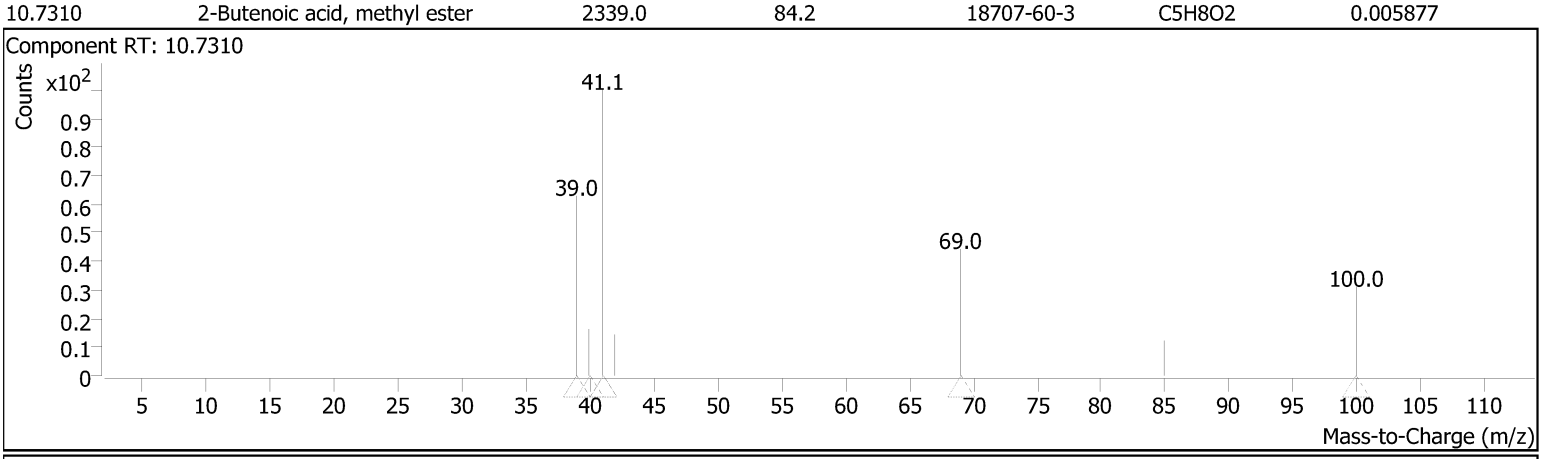



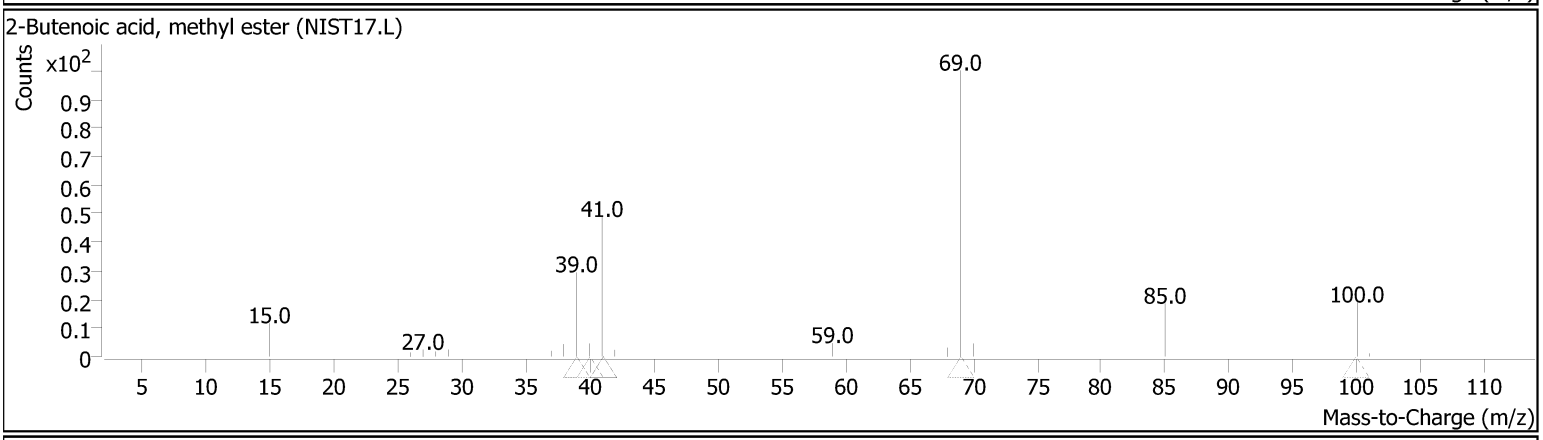



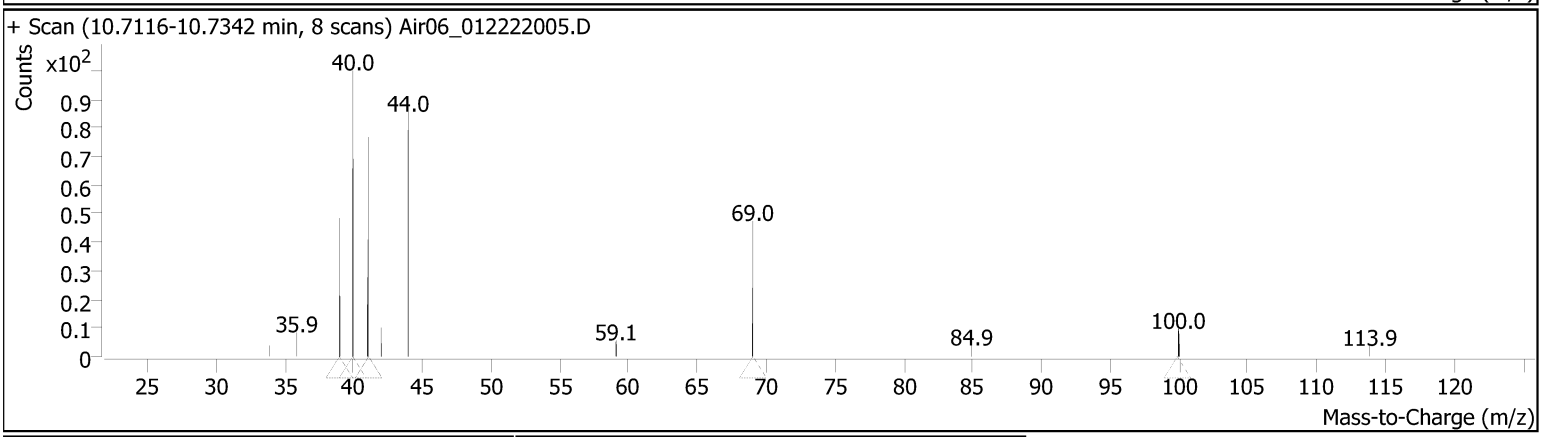



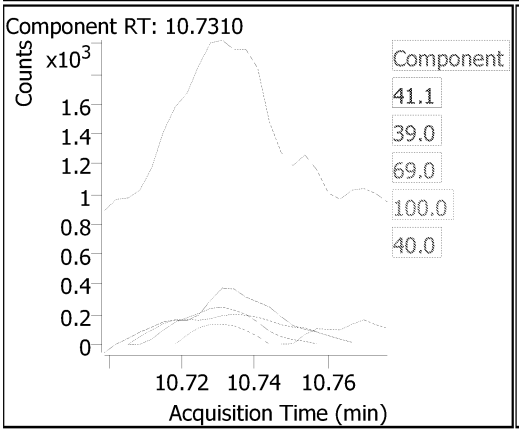



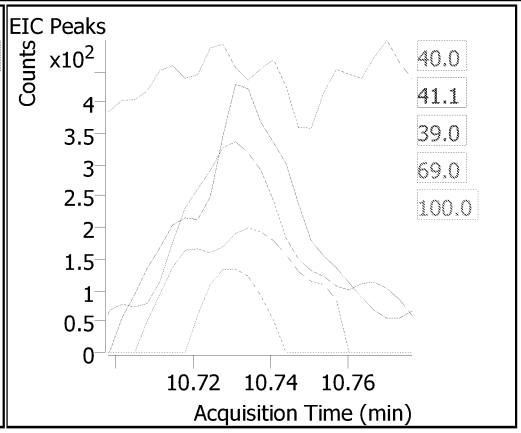
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.7310 | 2-Butenoic acid, methyl ester | 2339.0 | 84.2 | 18707-60-3 | C5H8O2 | 0.005877 |

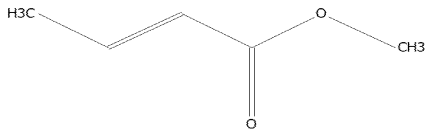


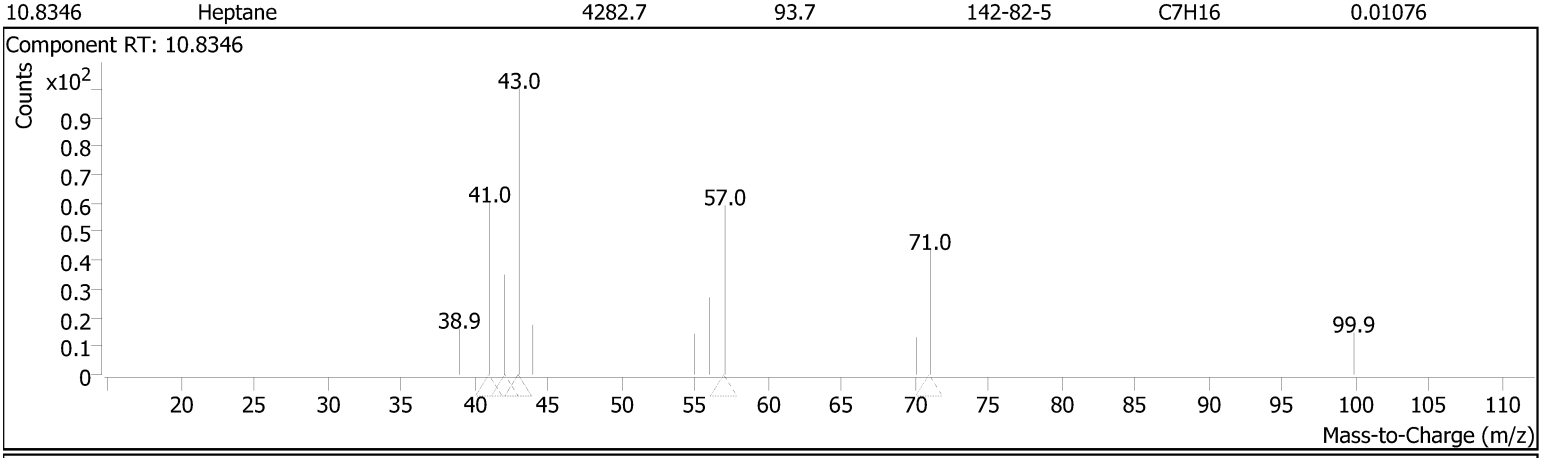



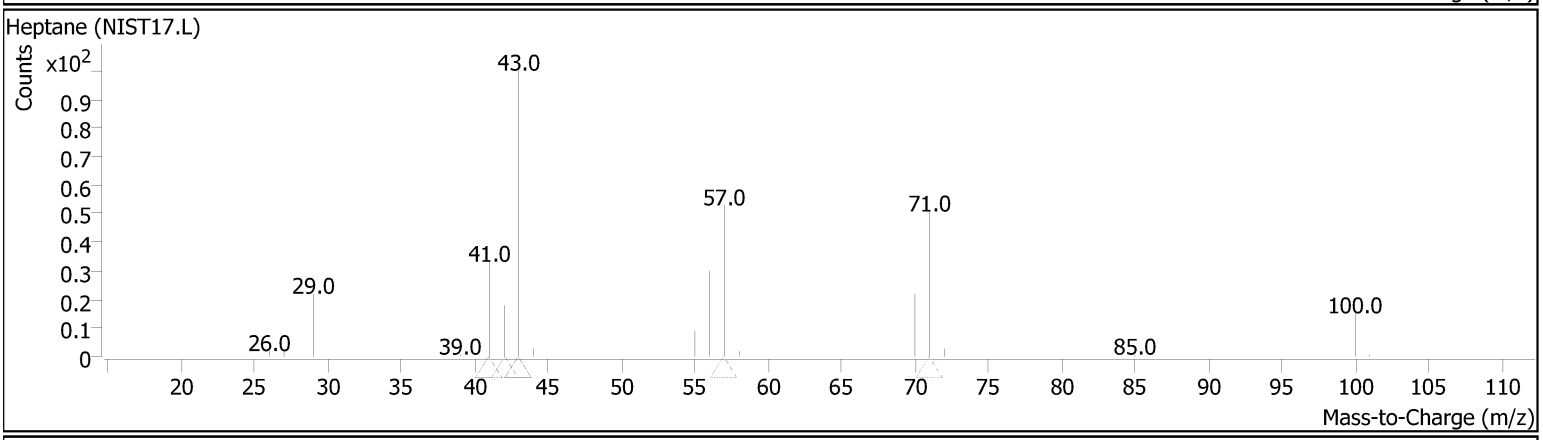



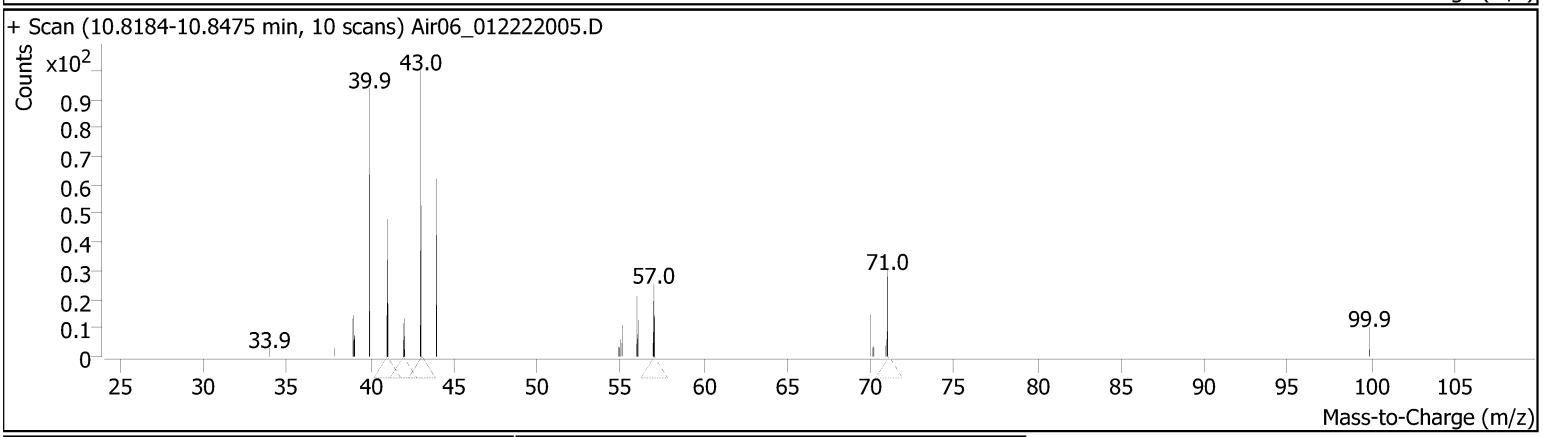



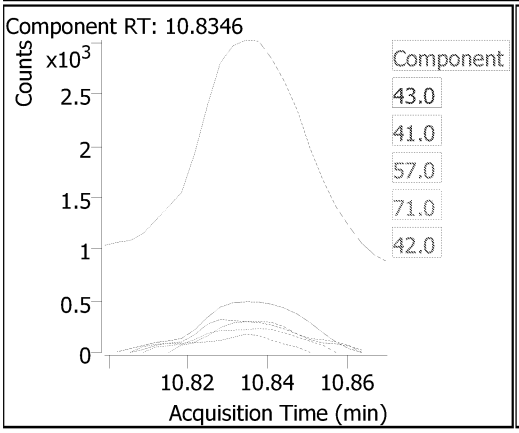



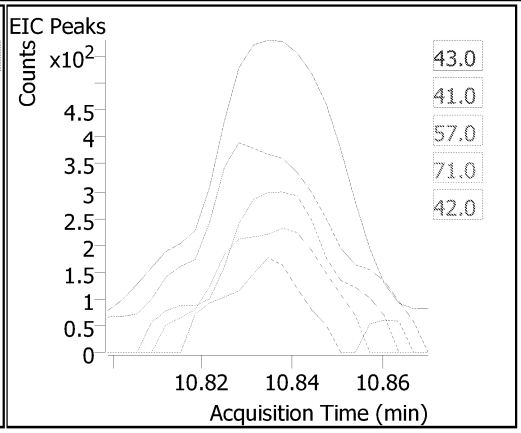
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 10.8346 | Heptane | 4282.7 | 93.7 | 142-82-5 | C7H16 | 0.01076 |



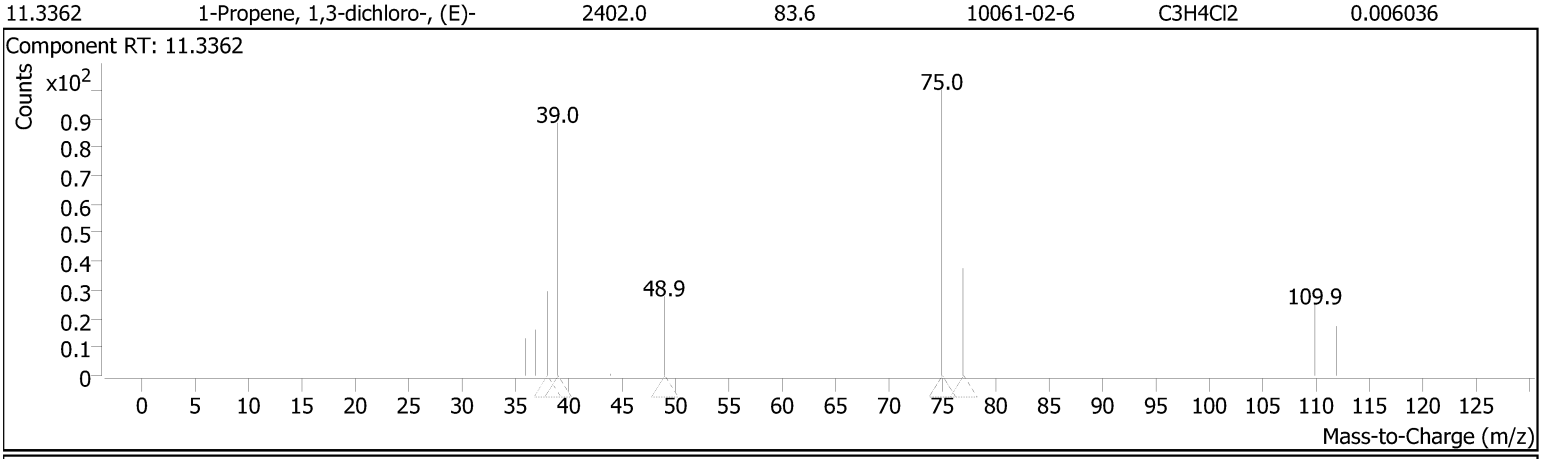



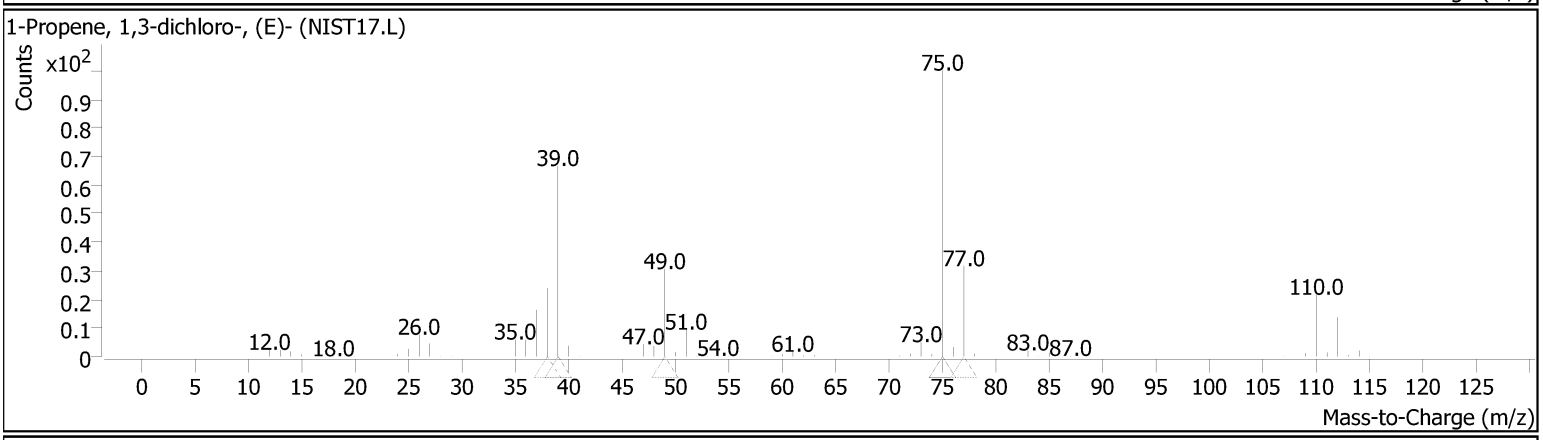



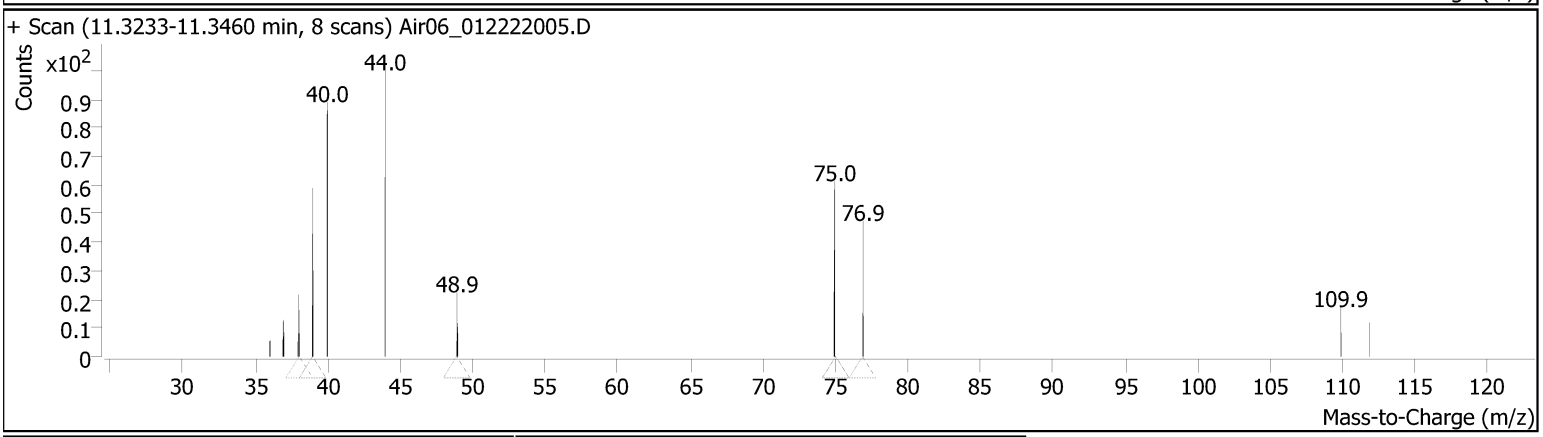



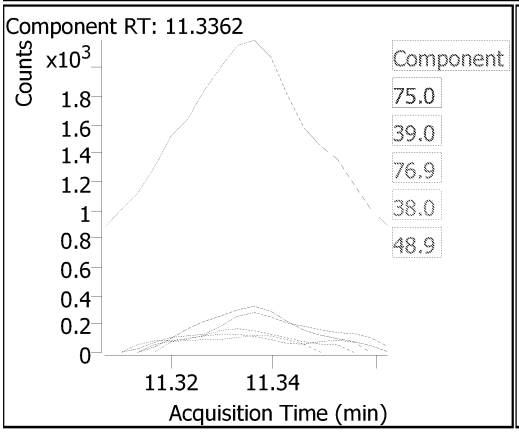


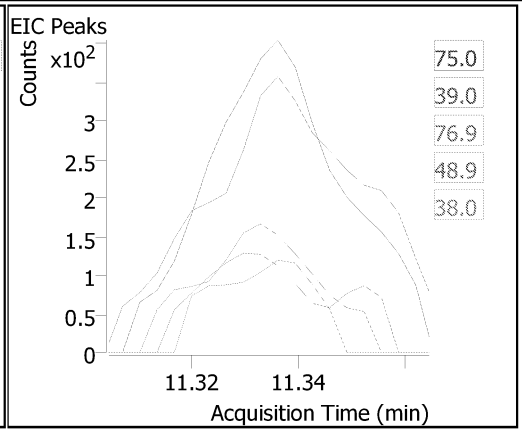

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.3362 | 1-Propene, 1,3-dichloro-, (E)- | 2402.0 | 83.6 | 10061-02-6 | C3H4Cl2 | 0.006036 |

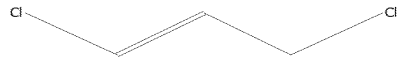


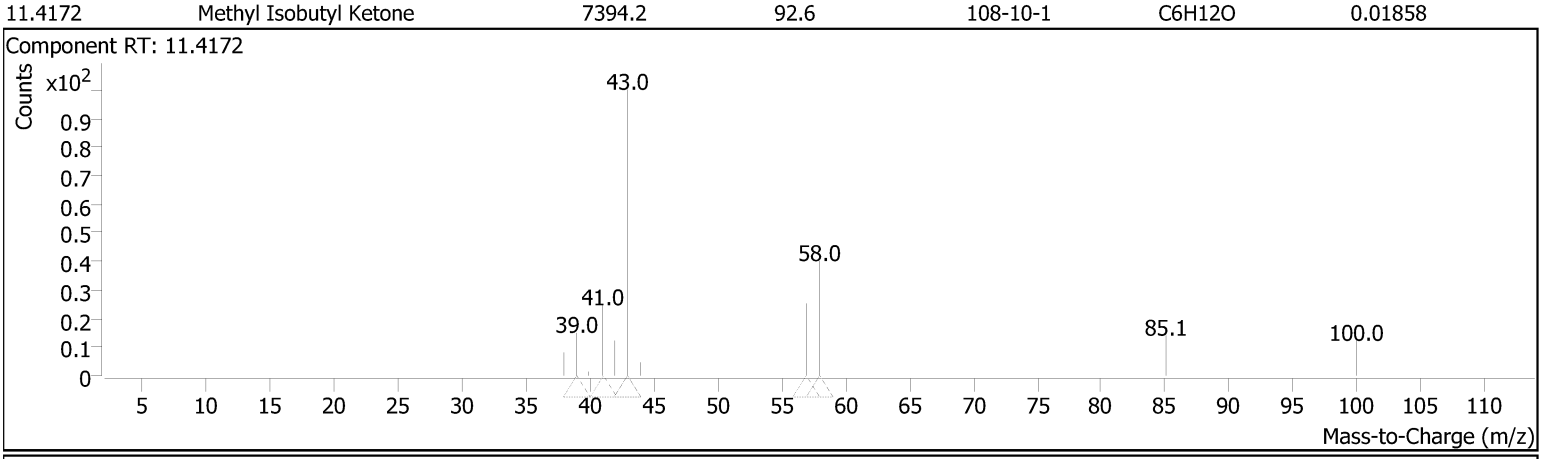



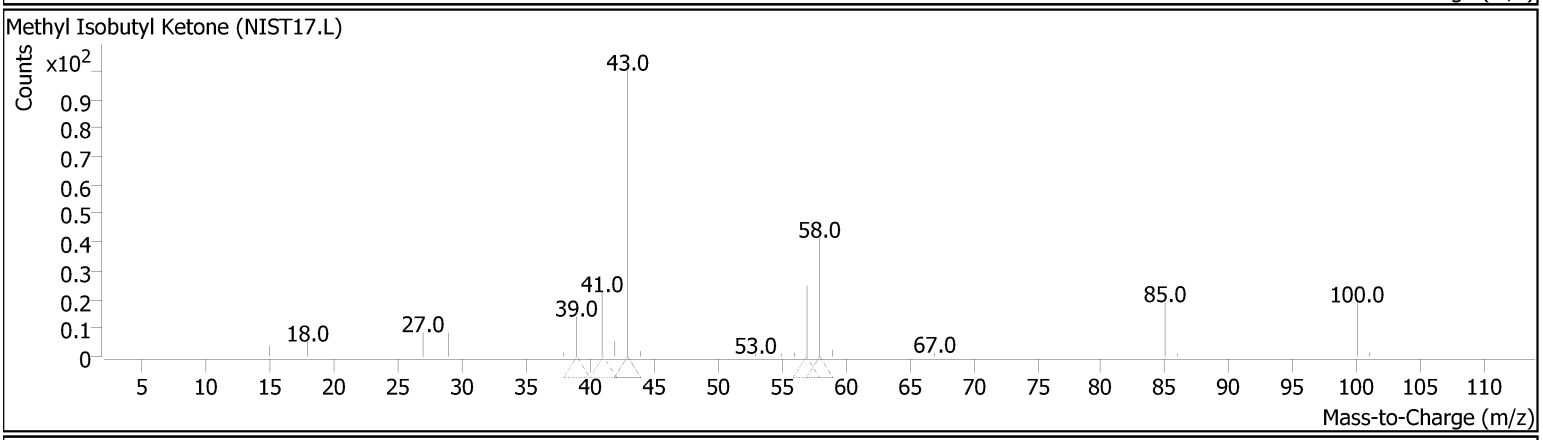



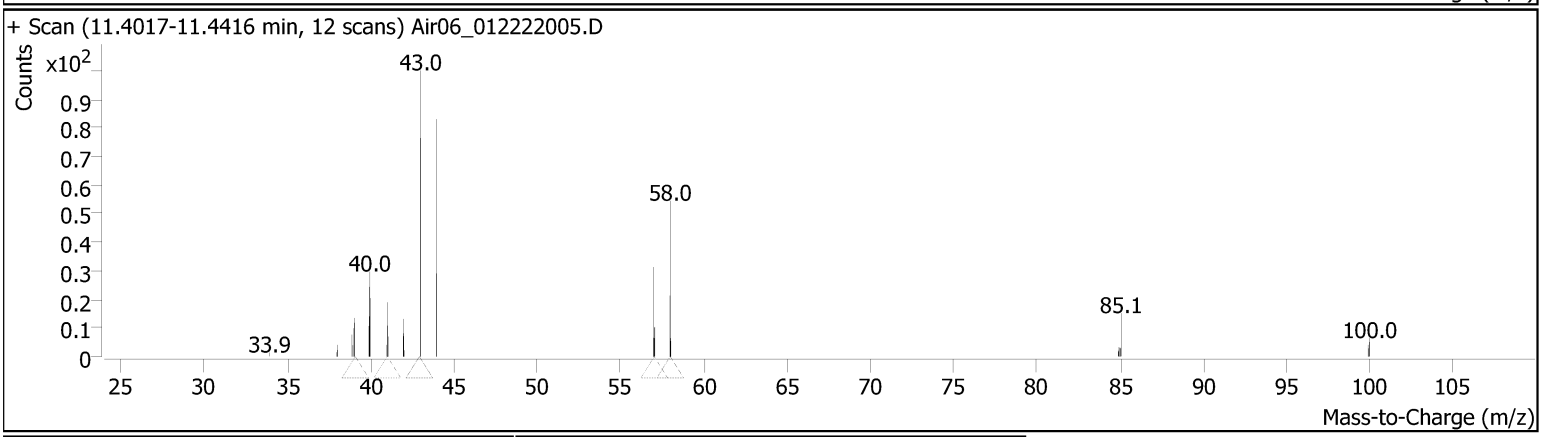



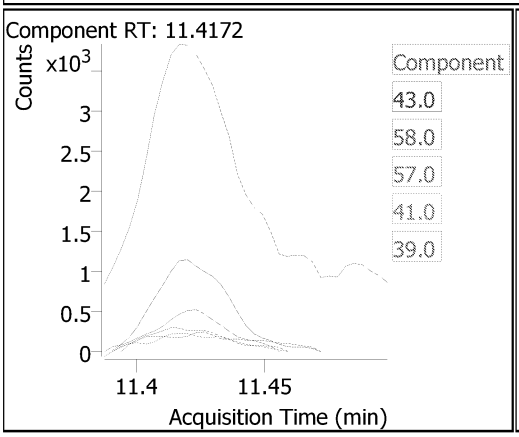



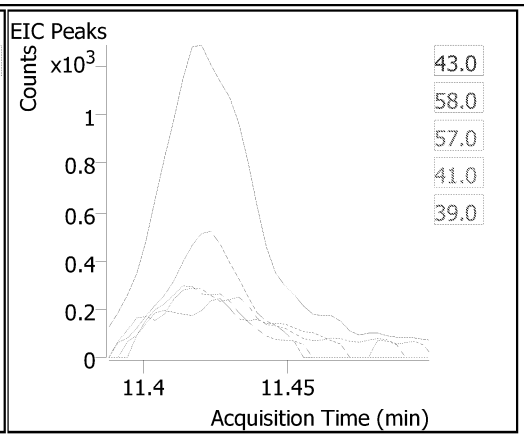
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.4172 | Methyl Isobutyl Ketone | 7394.2 | 92.6 | 108-10-1 | C6H12O | 0.01858 |

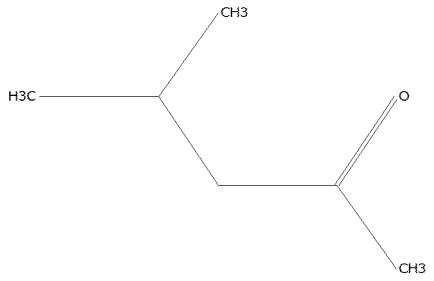


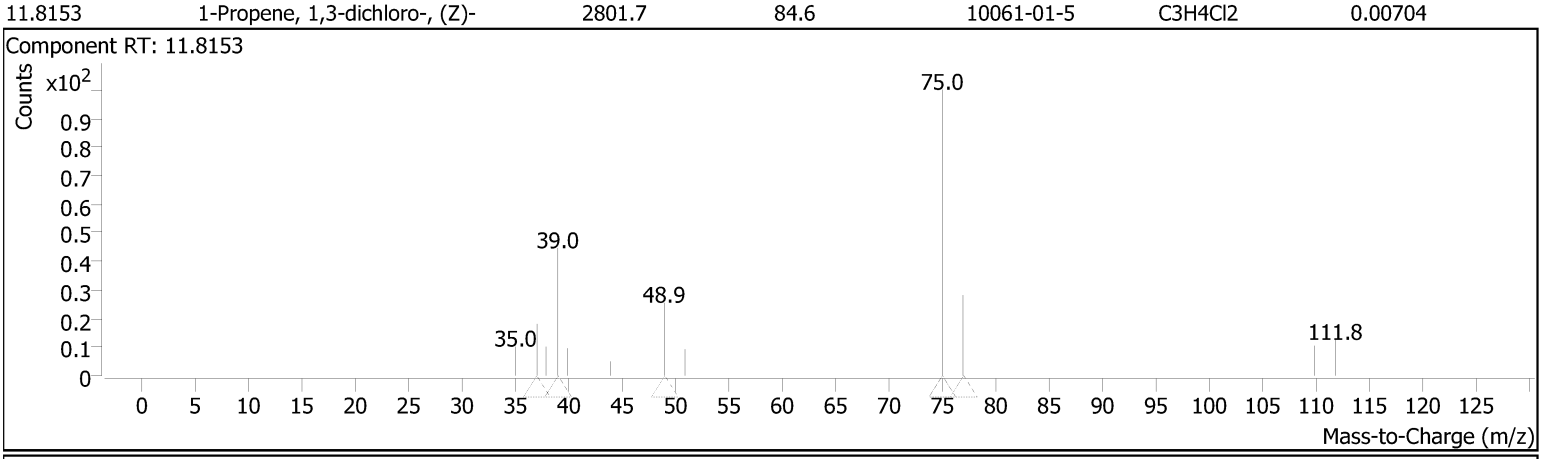



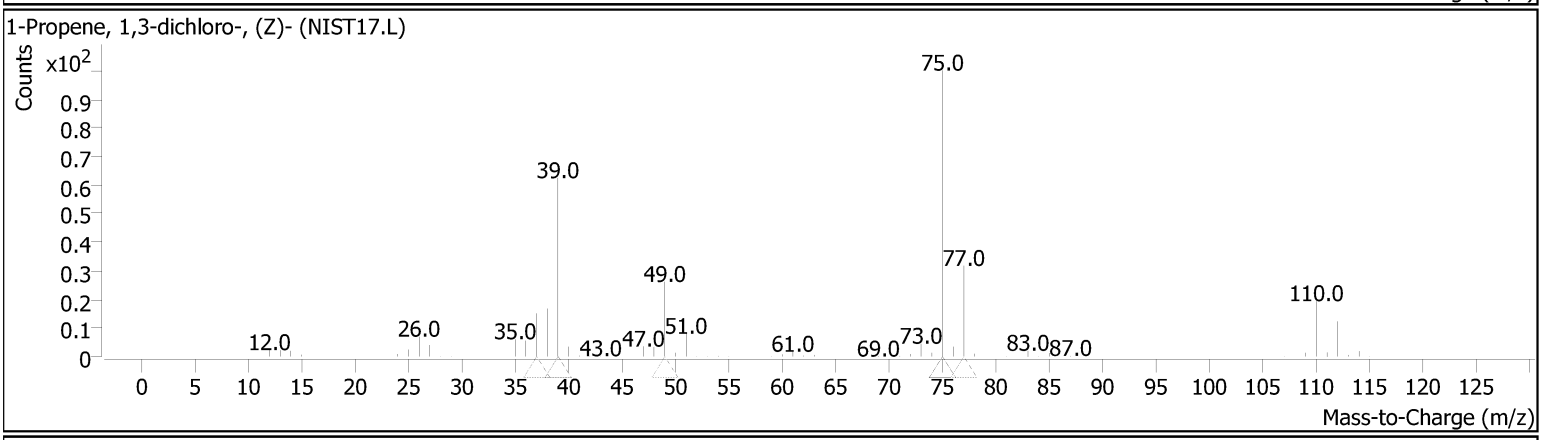



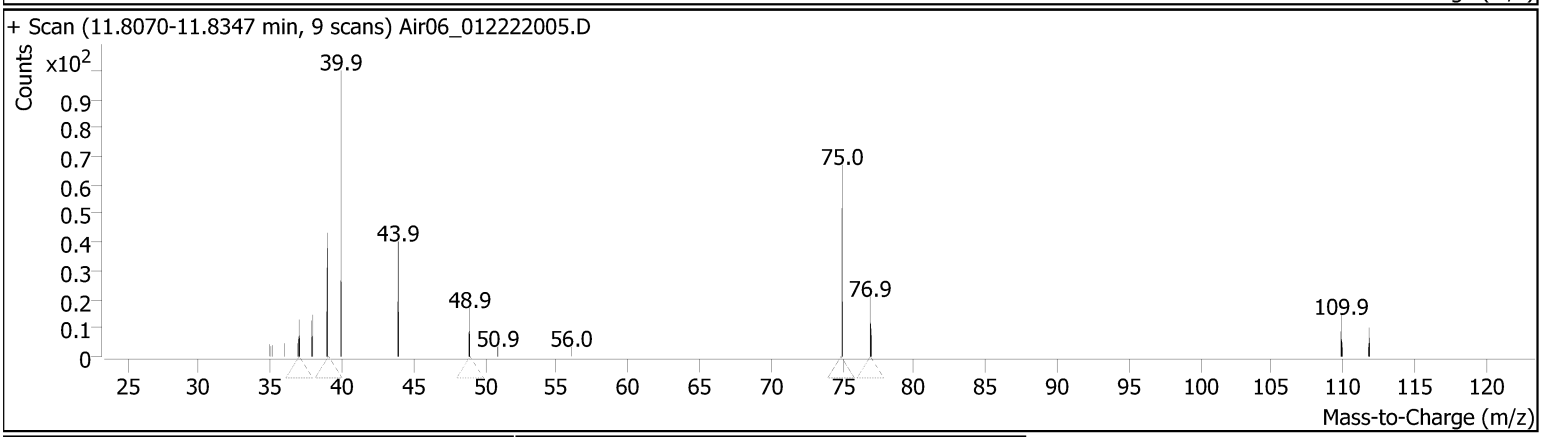



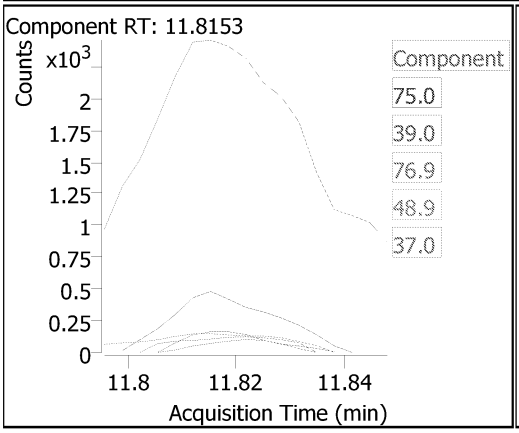



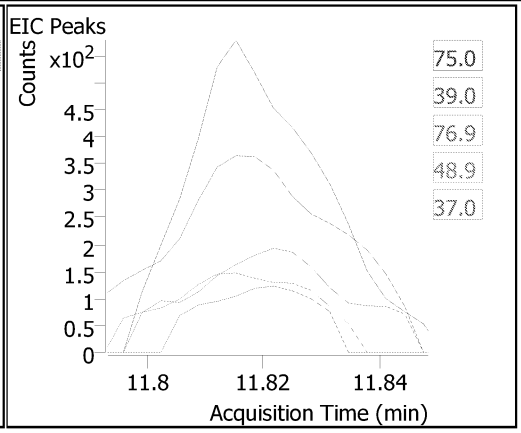
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.8153 | 1-Propene, 1,3-dichloro-, (Z)- | 2801.7 | 84.6 | 10061-01-5 | C3H4Cl2 | 0.00704 |

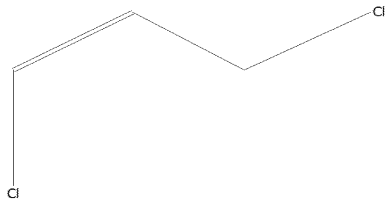


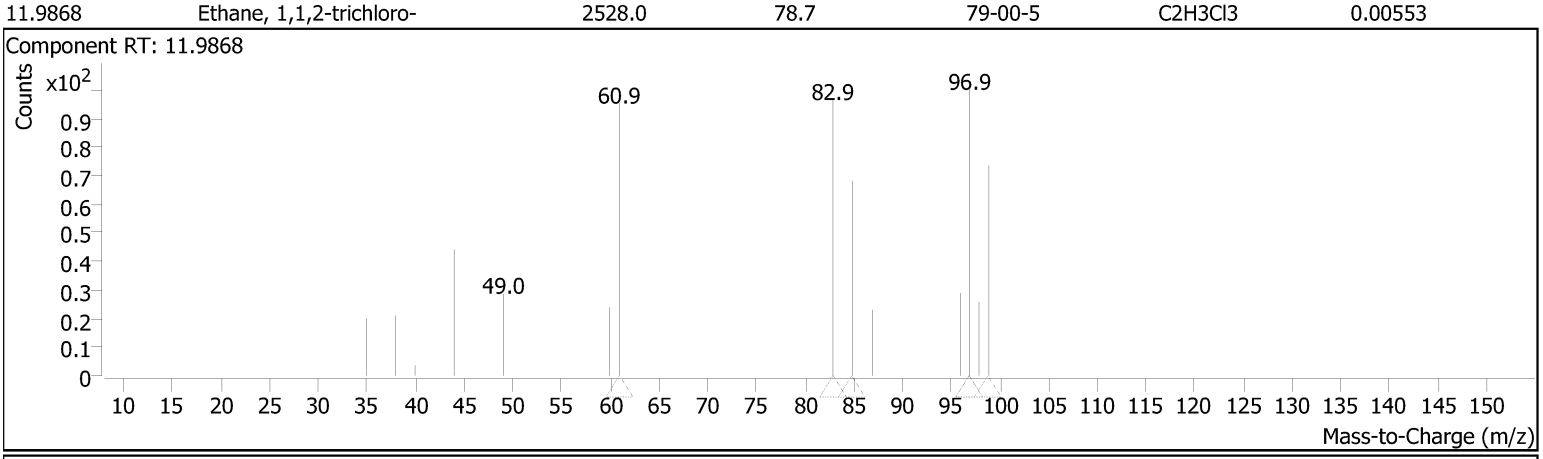



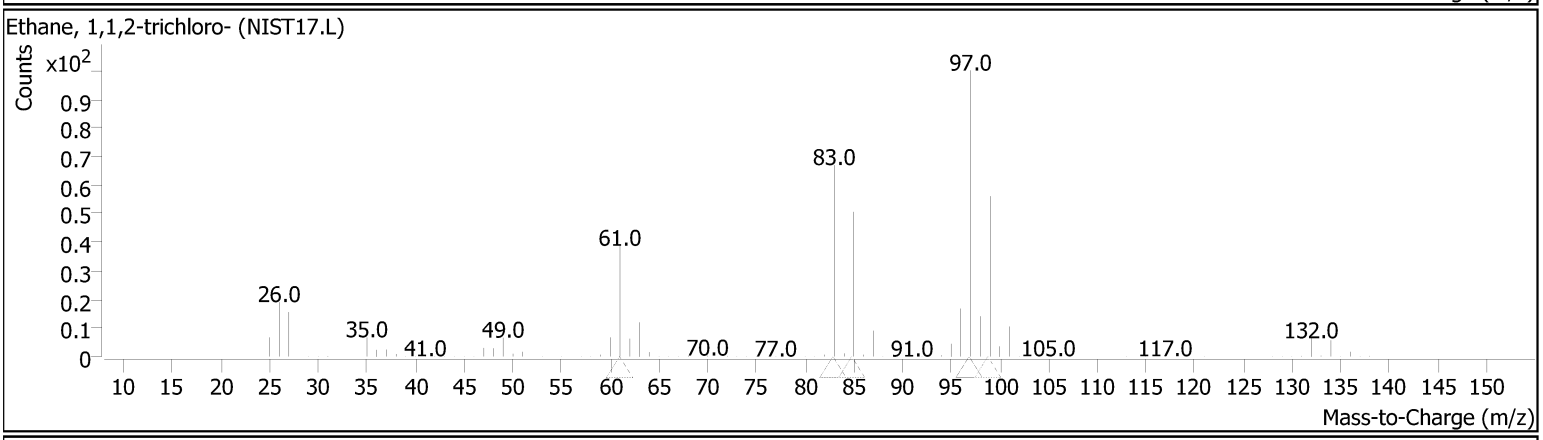



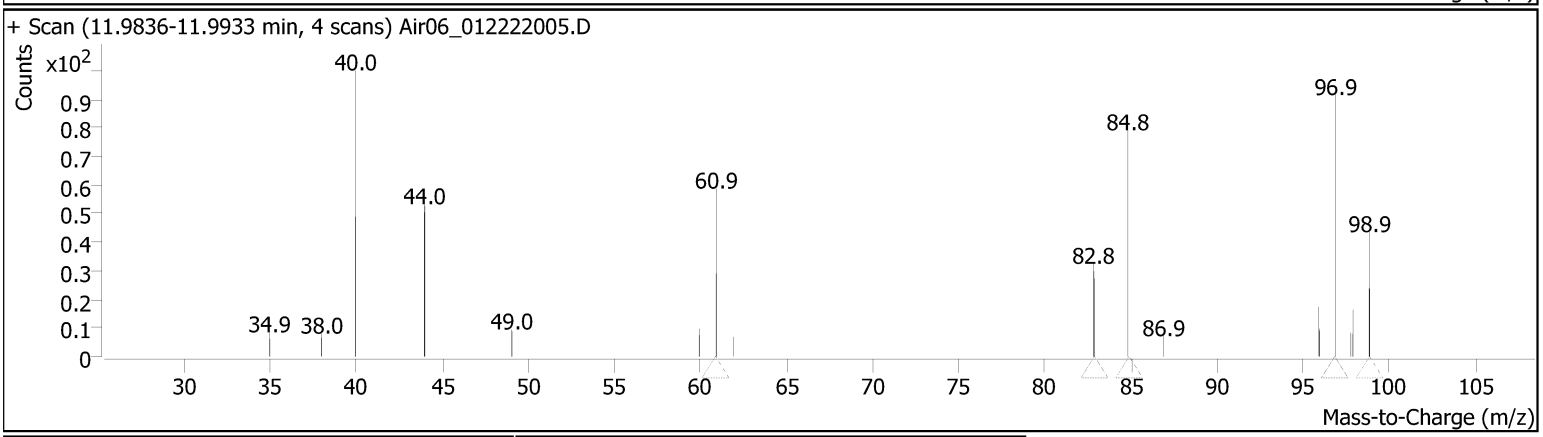



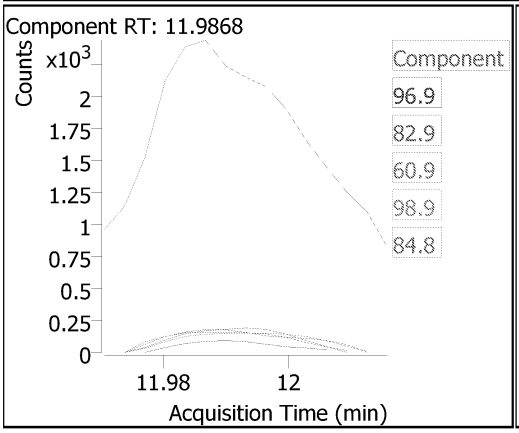



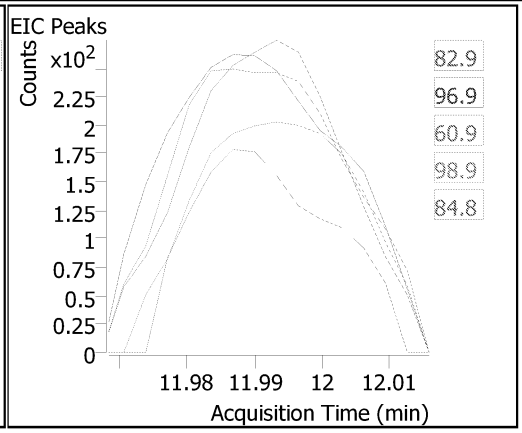
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 11.9868 | Ethane, 1,1,2-trichloro- | 2528.0 | 78.7 | 79-00-5 | C2H3Cl3 | 0.00553 |

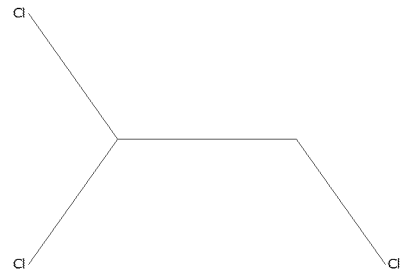


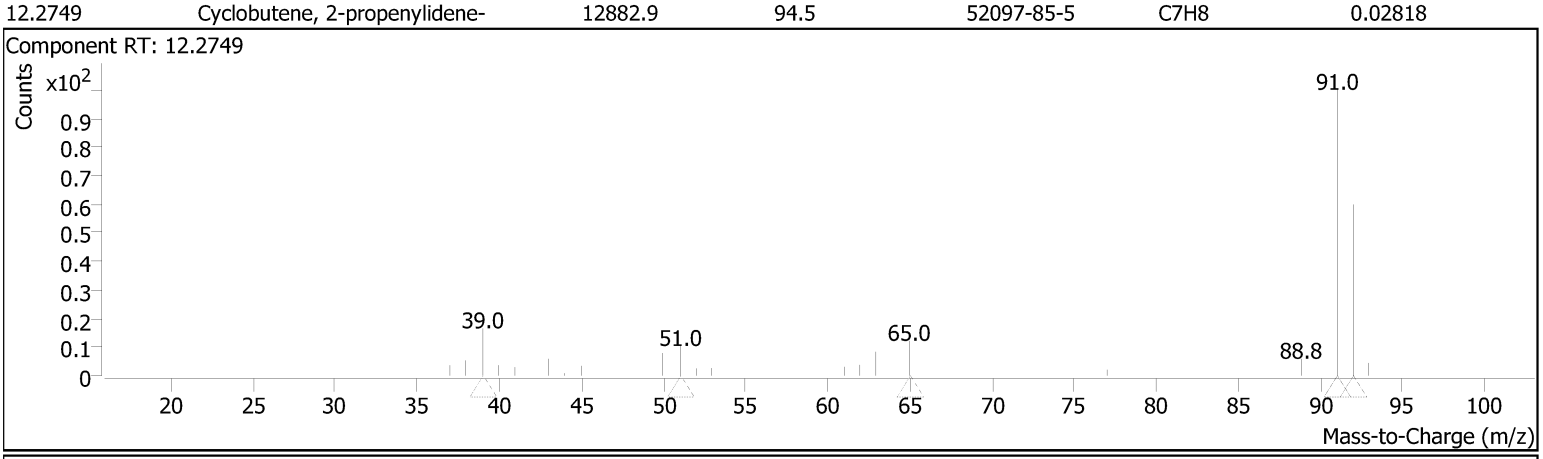



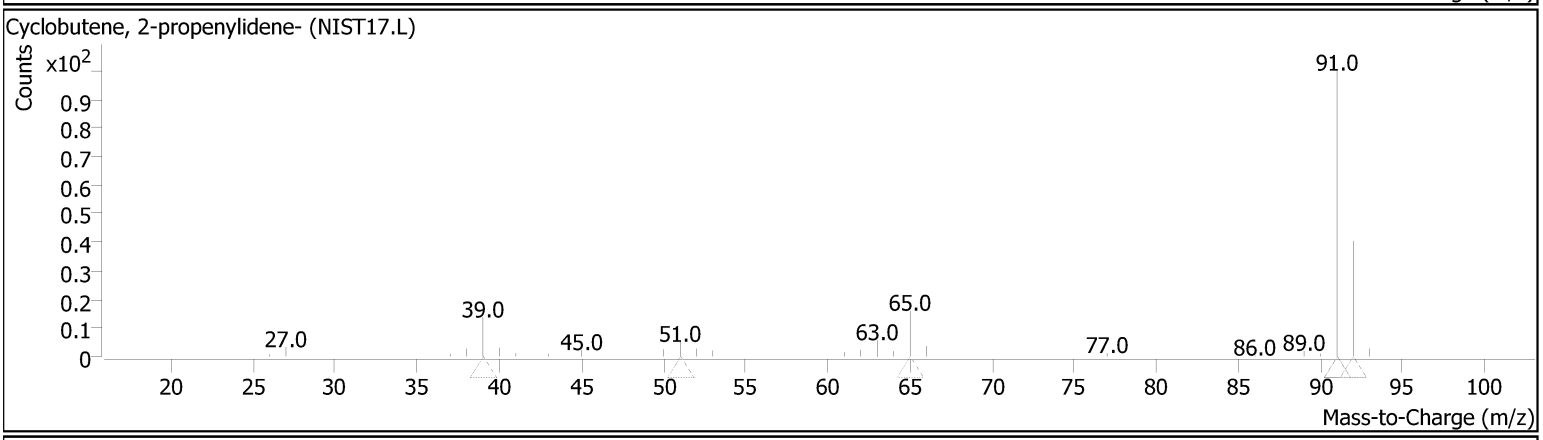



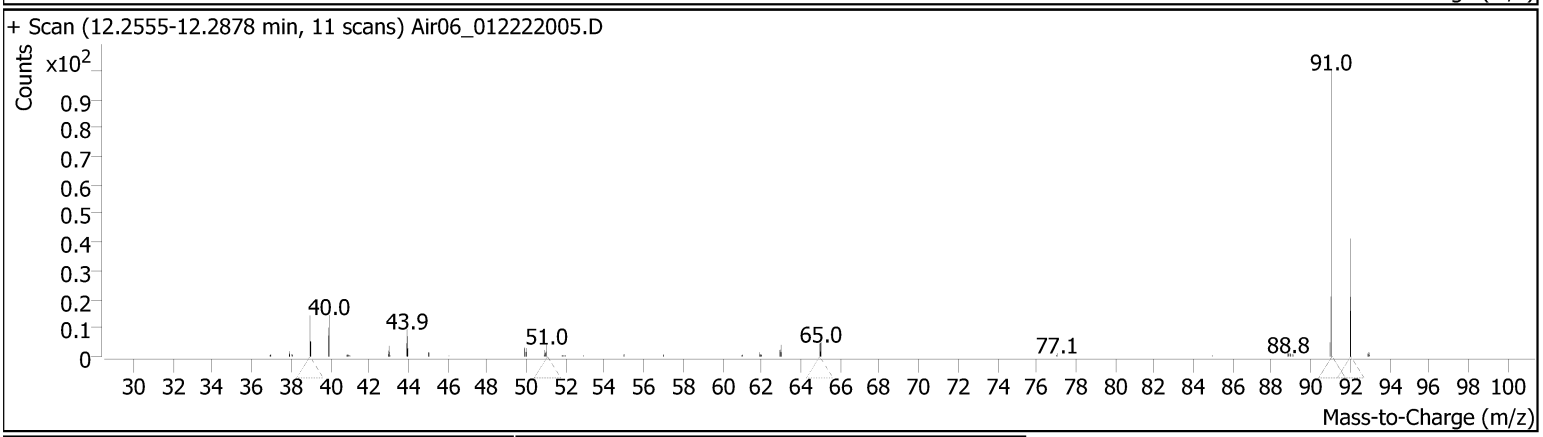



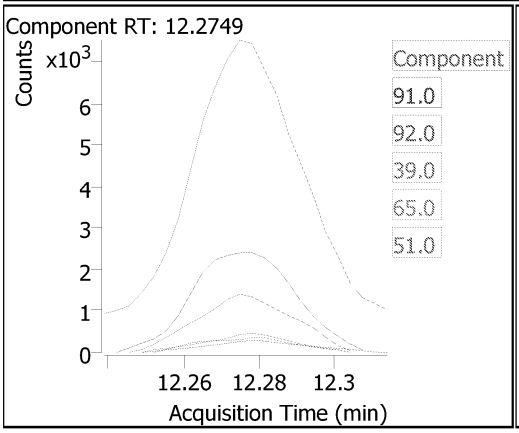



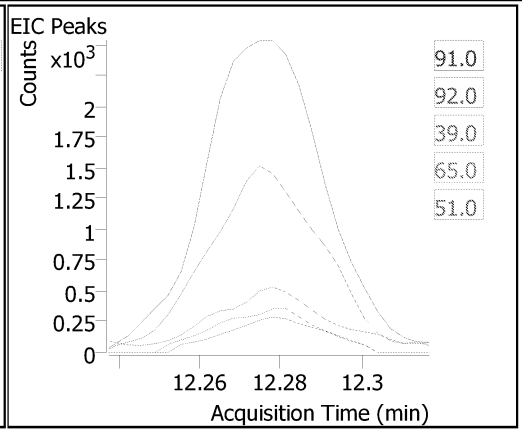
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.2749 | Cyclobutene, 2-propenylidene- | 12882.9 | 94.5 | 52097-85-5 | C7H8 | 0.02818 |

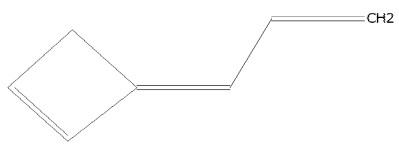


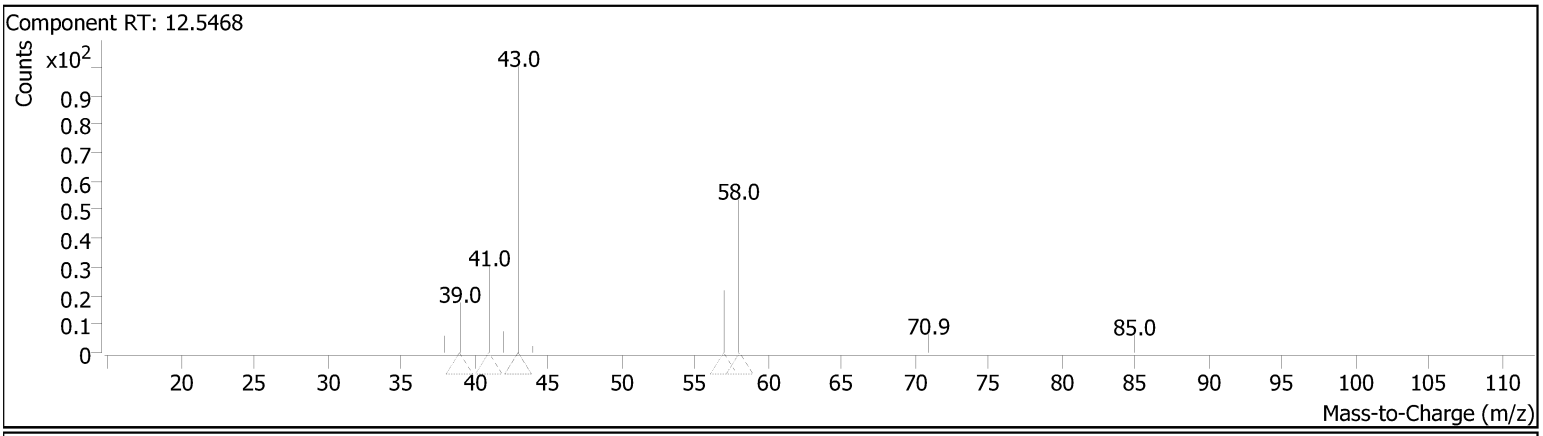



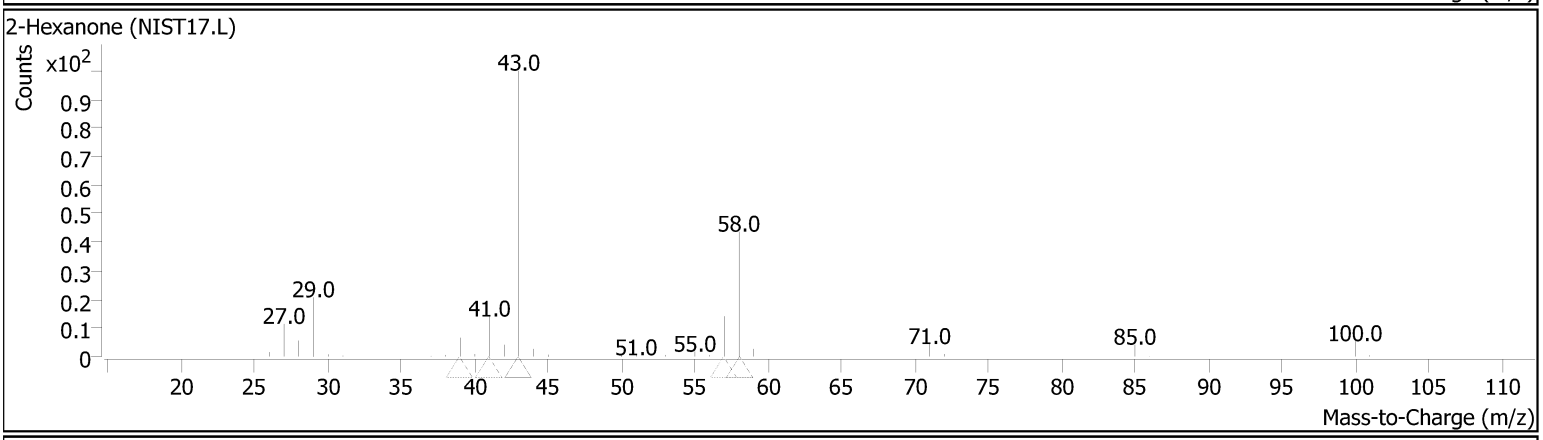



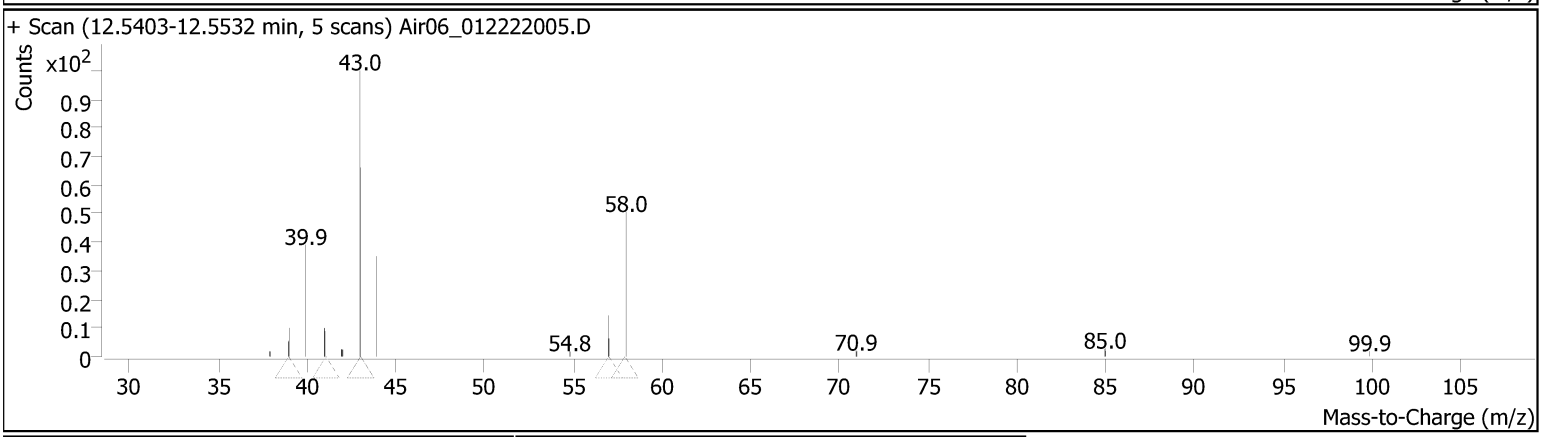



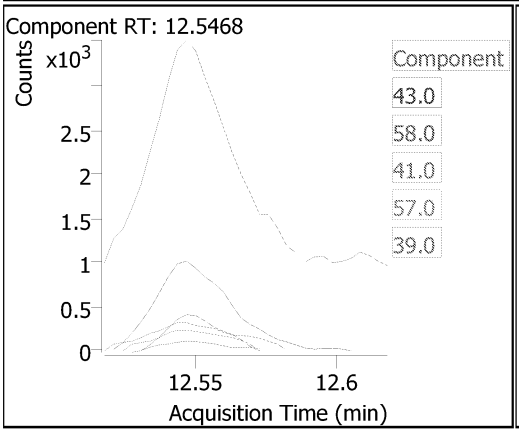



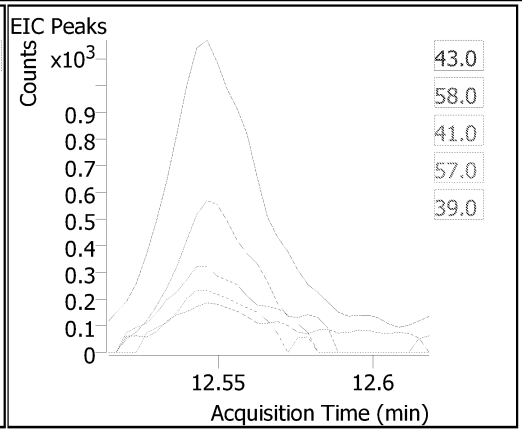
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.5468 | 2-Hexanone | 5335.3 | 85.9 | 591-78-6 | C6H12O | 0.01167 |

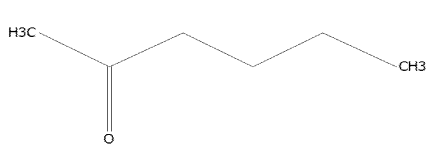


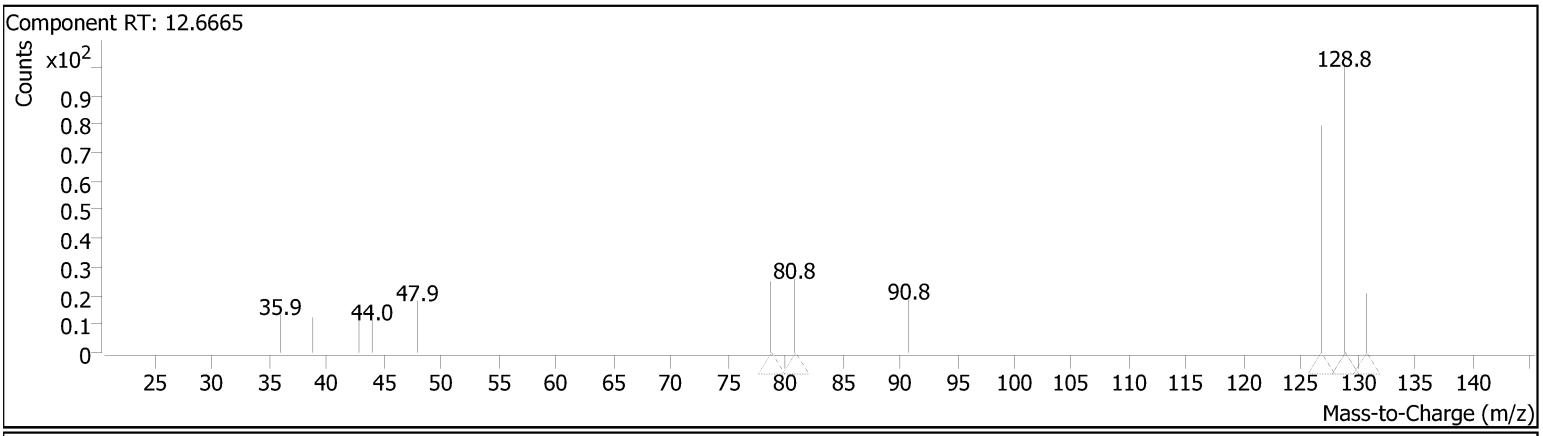



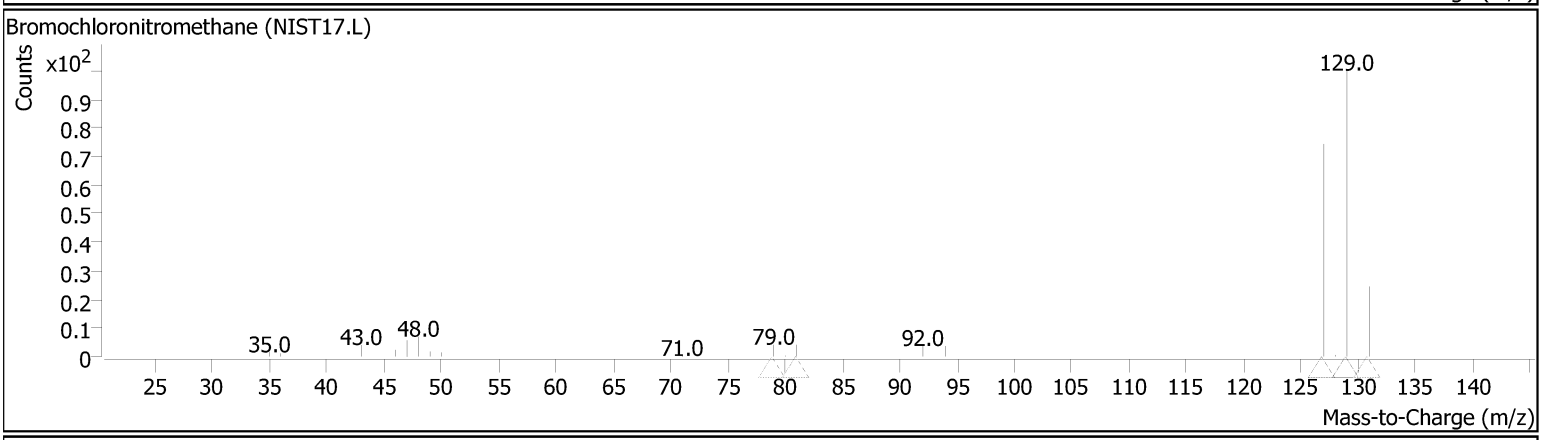



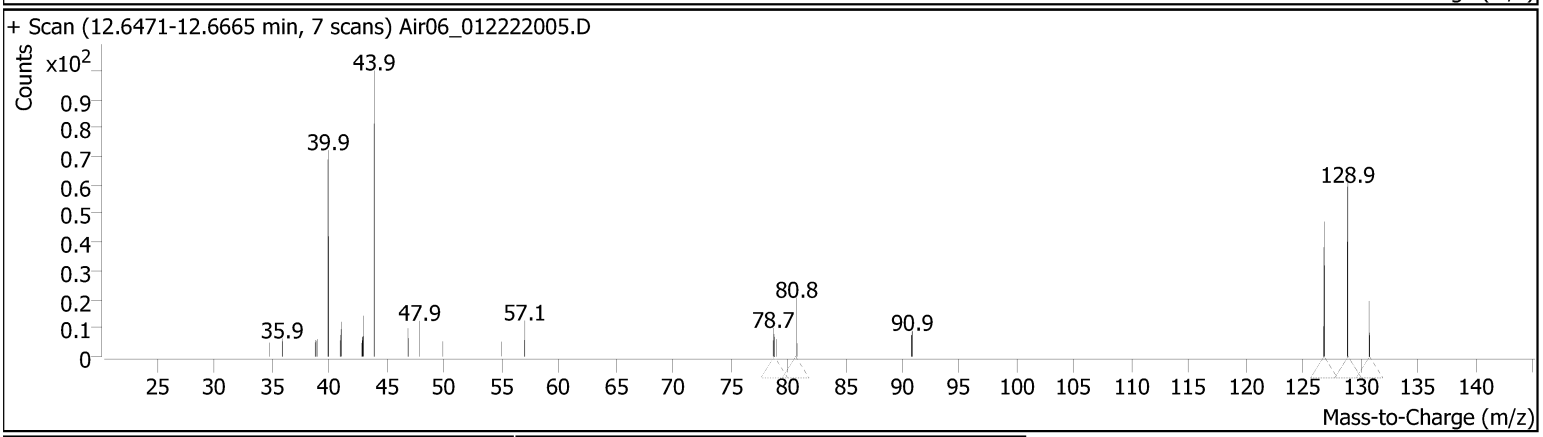



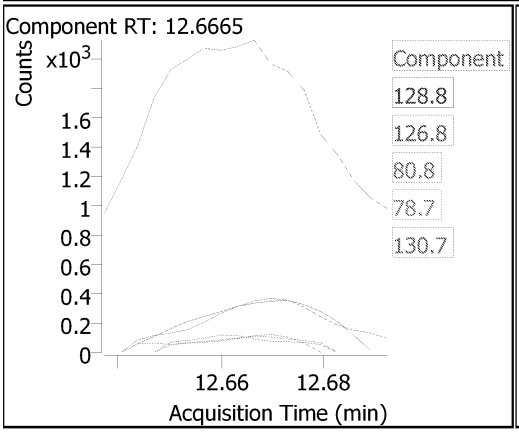



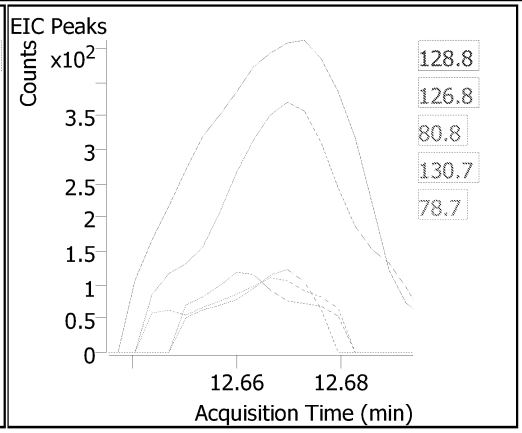
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.6665 | Bromochloronitromethane | 2400.7 | 84.0 | 135531-25-8 | CHBrClNO2 | 0.005252 |

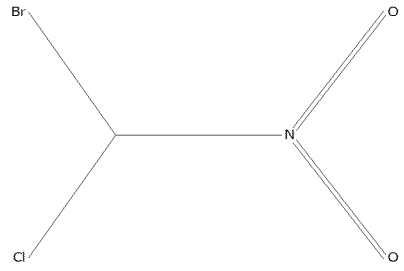


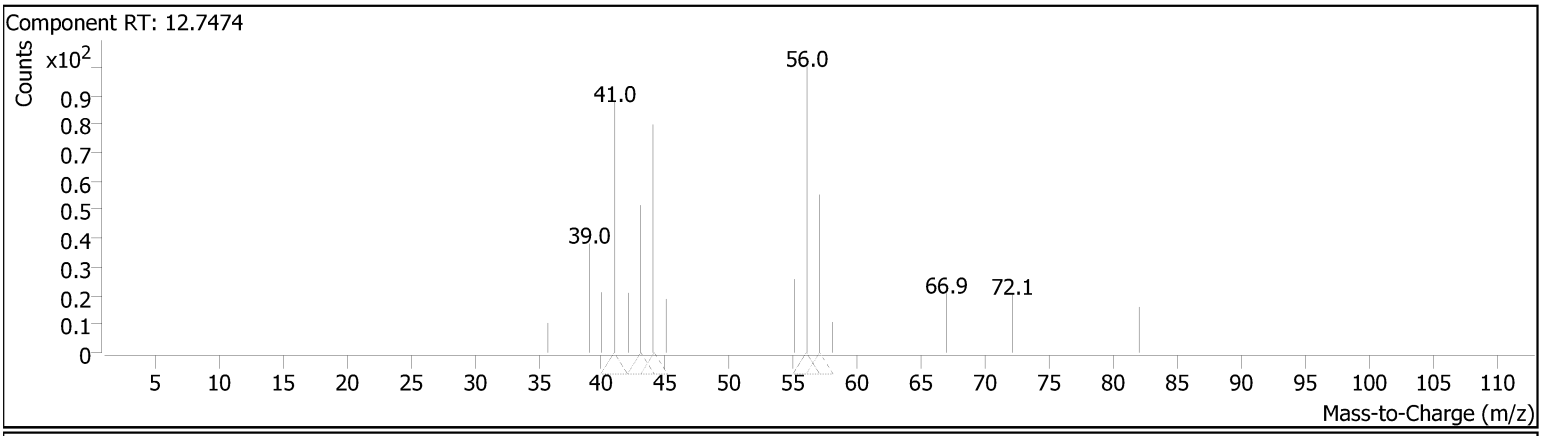



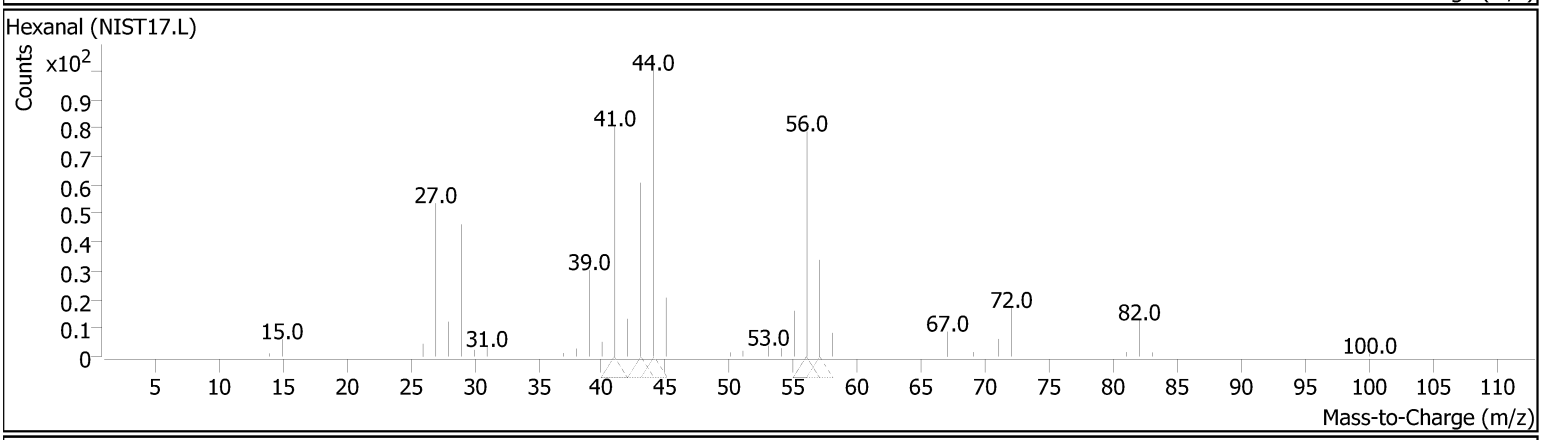



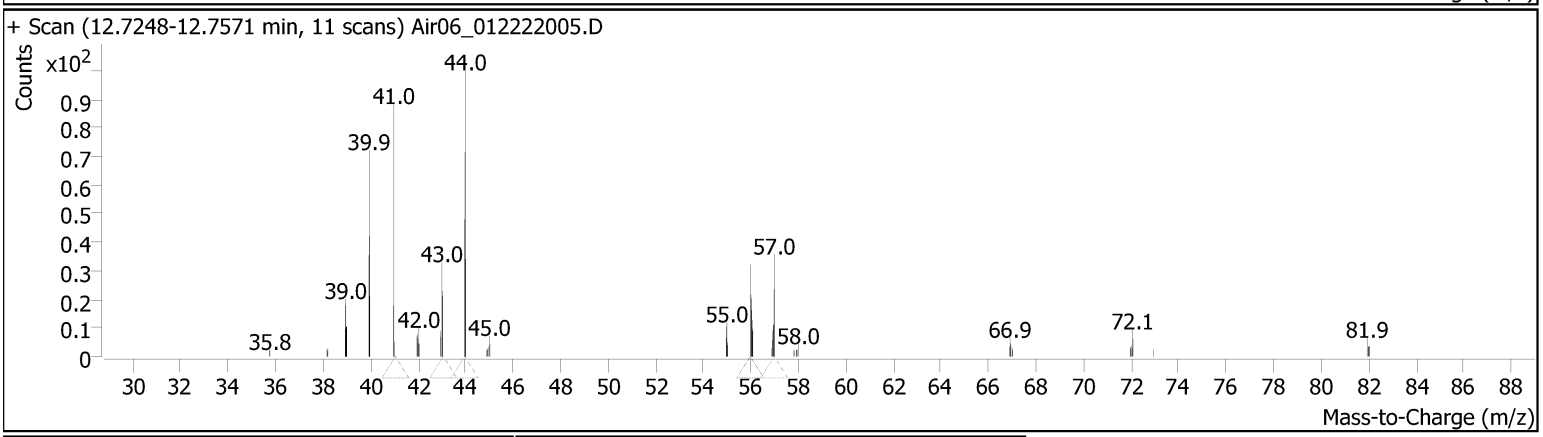



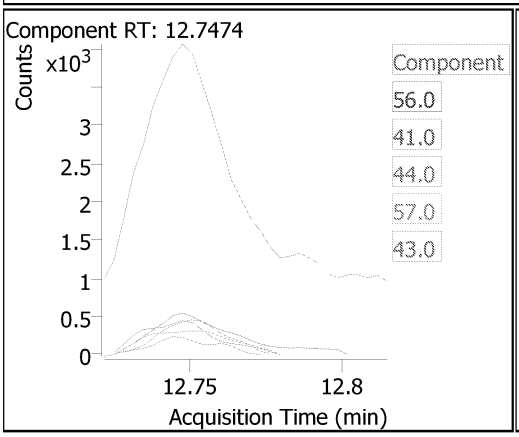



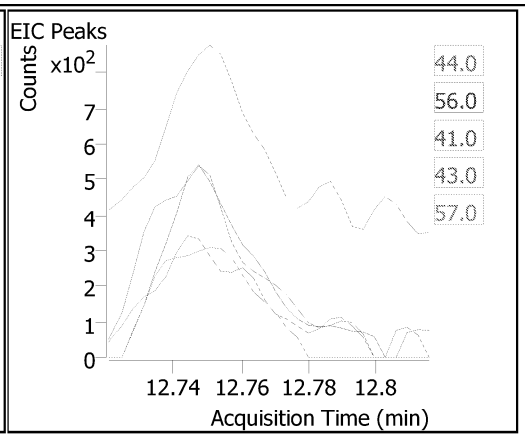
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.7474 | Hexanal | 6109.1 | 90.9 | 66-25-1 | C6H12O | 0.01336 |



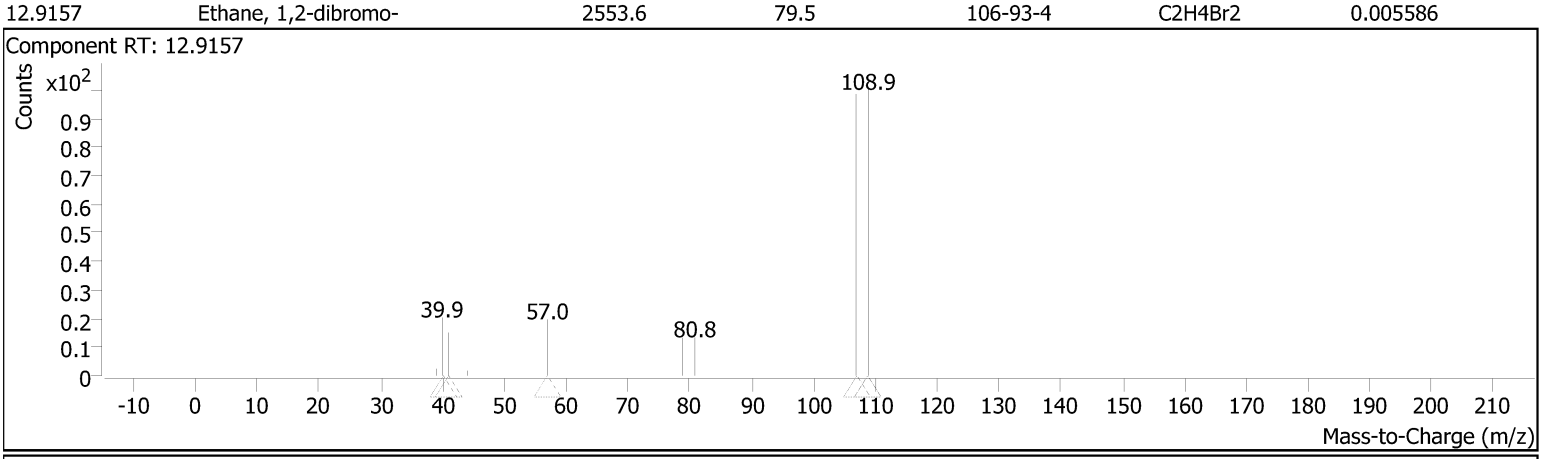



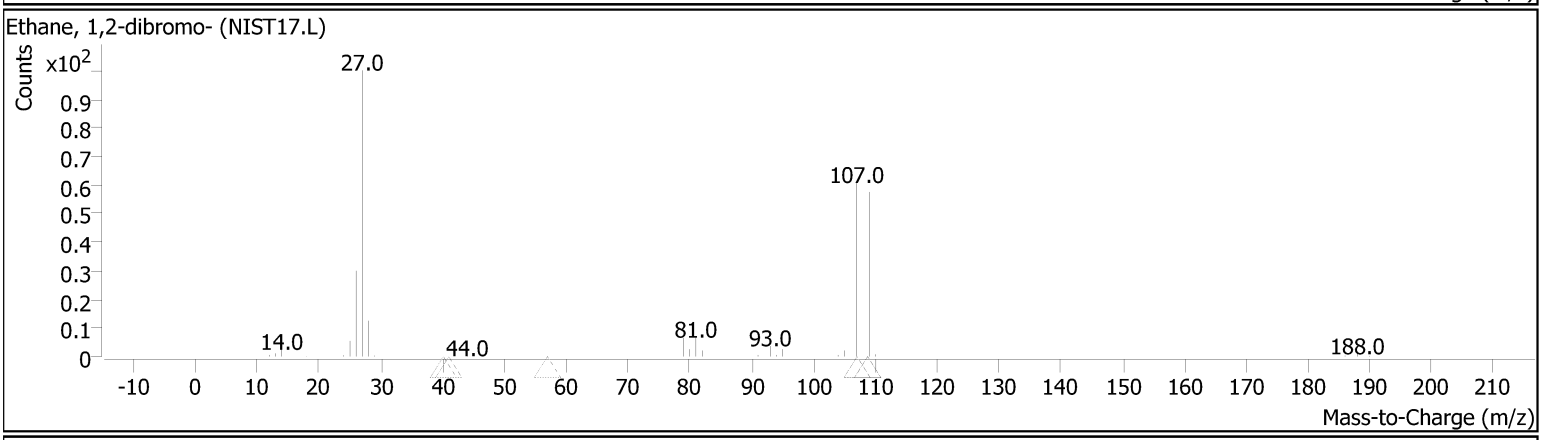



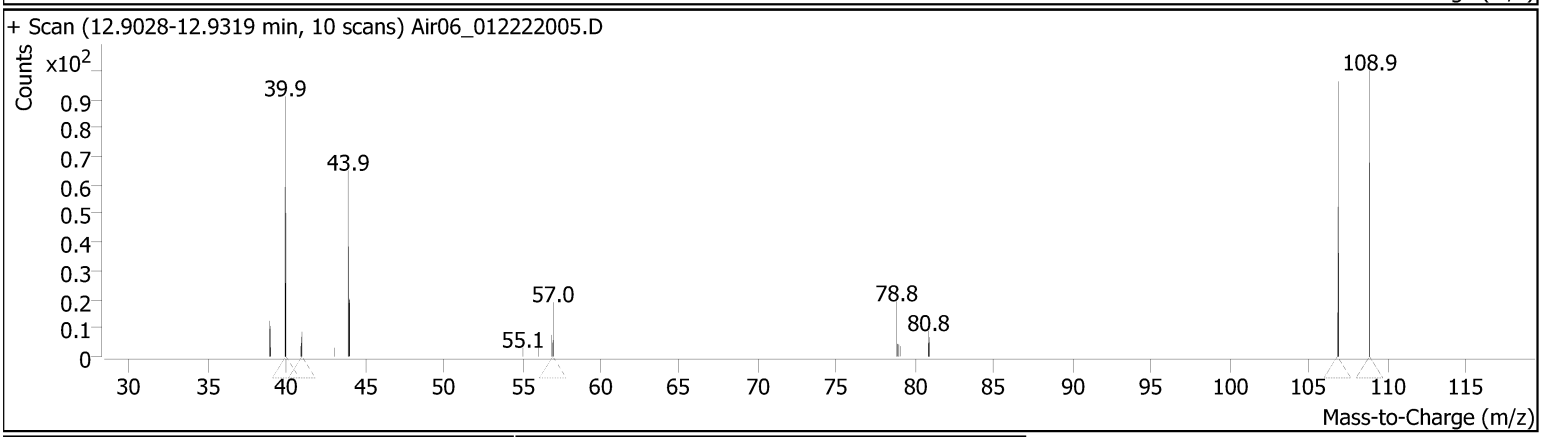



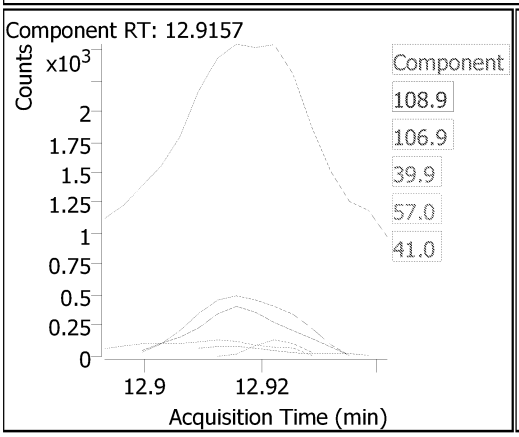


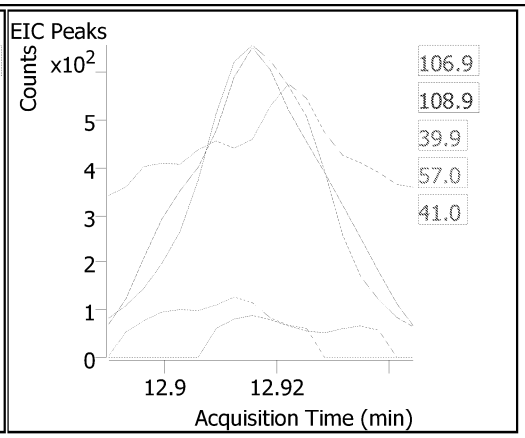

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 12.9157 | Ethane, 1,2-dibromo- | 2553.6 | 79.5 | 106-93-4 | C2H4Br2 | 0.005586 |



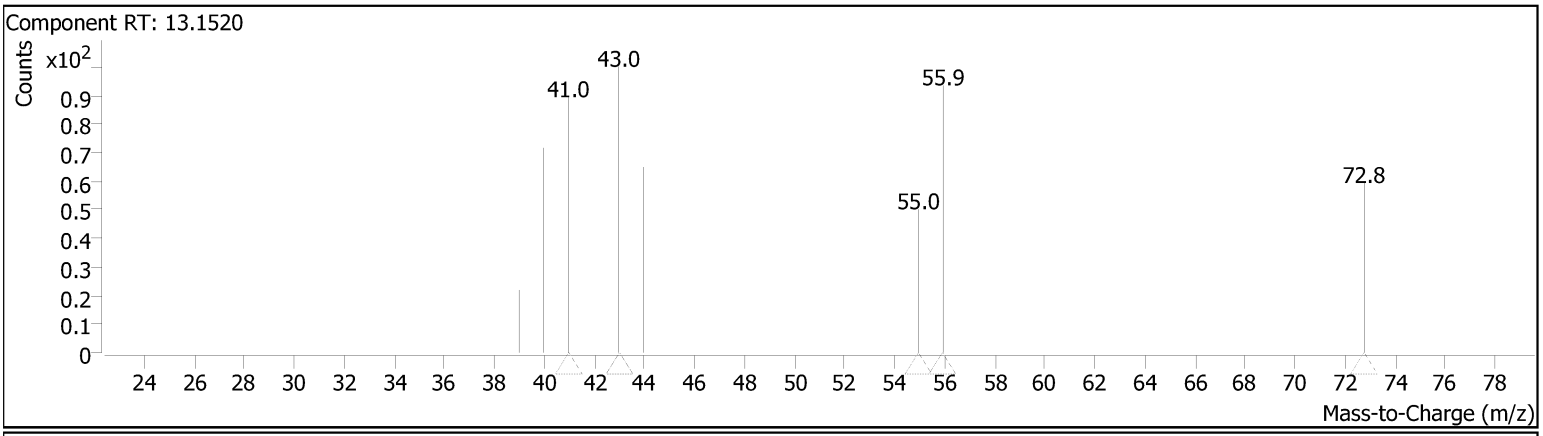



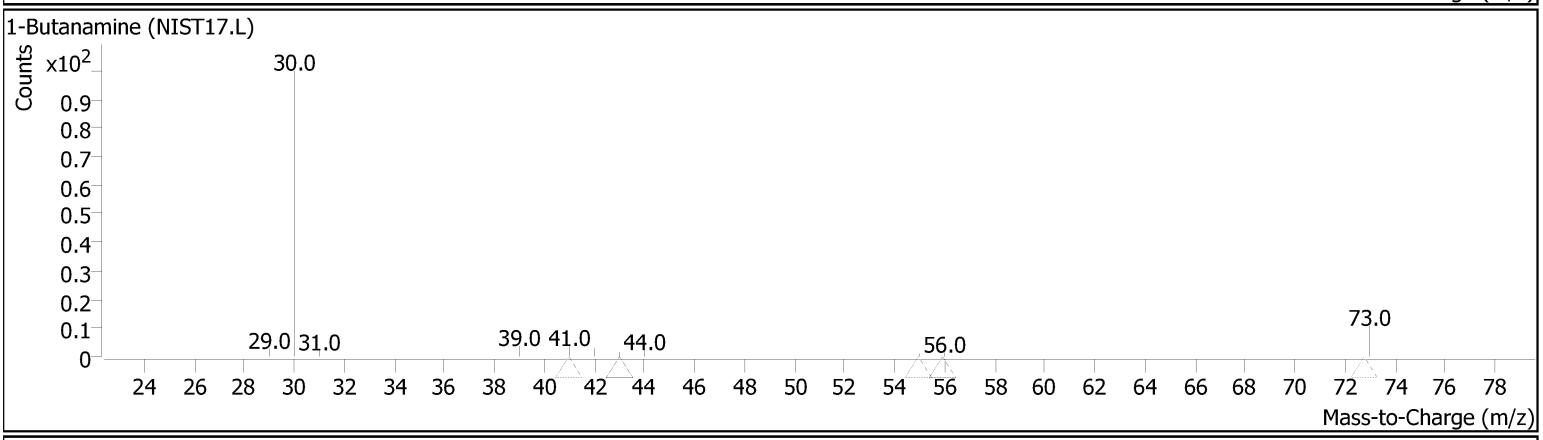



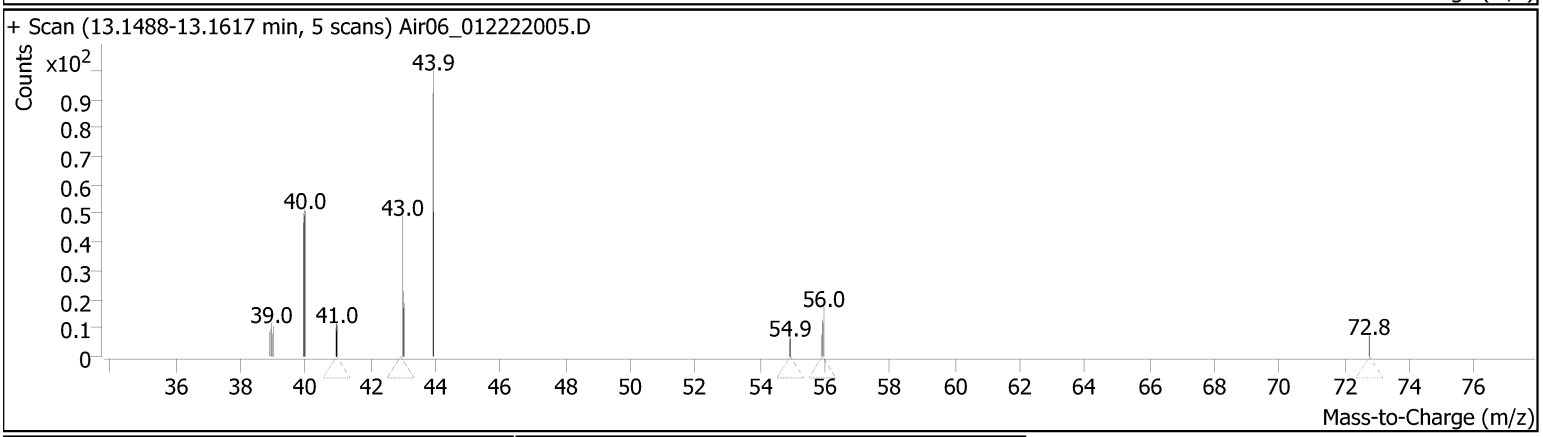



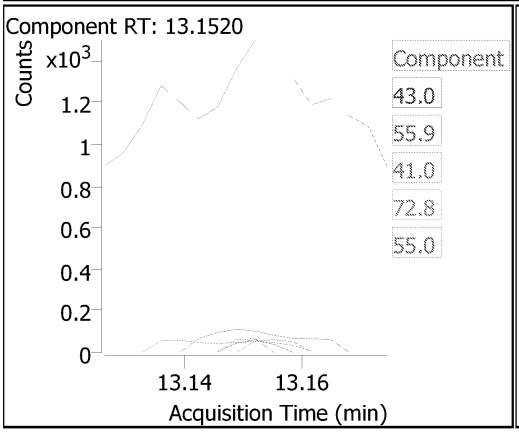


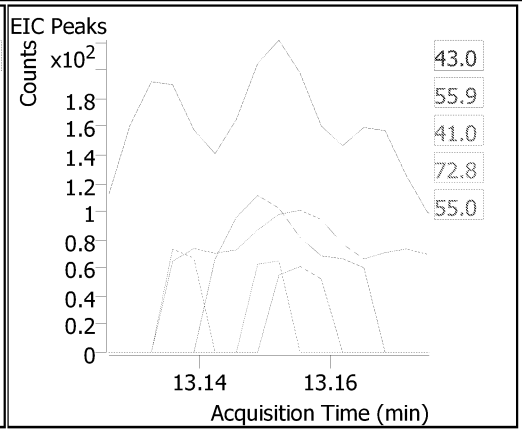

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.1520 | 1-Butanamine | 901.6 | 72.6 | 109-73-9 | C4H11N | 0.001972 |

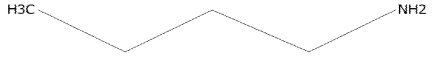


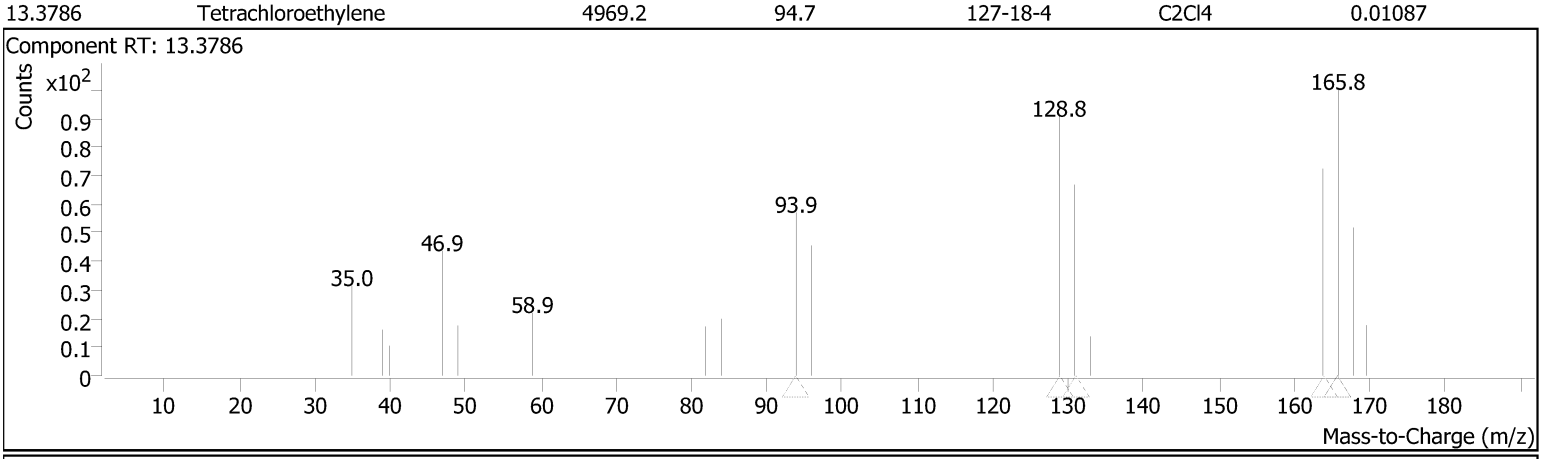



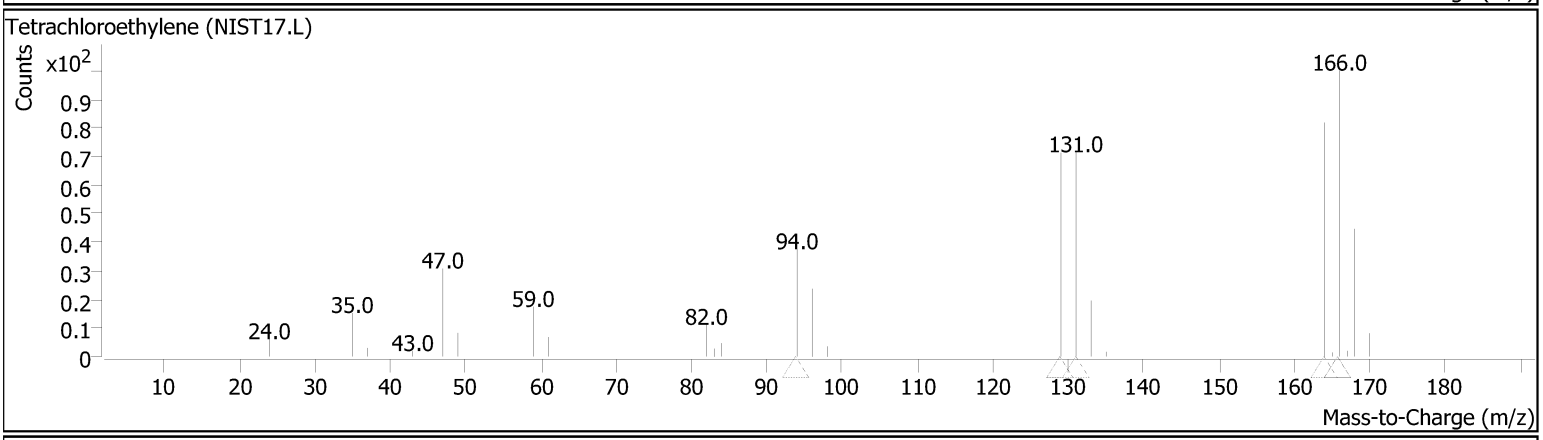



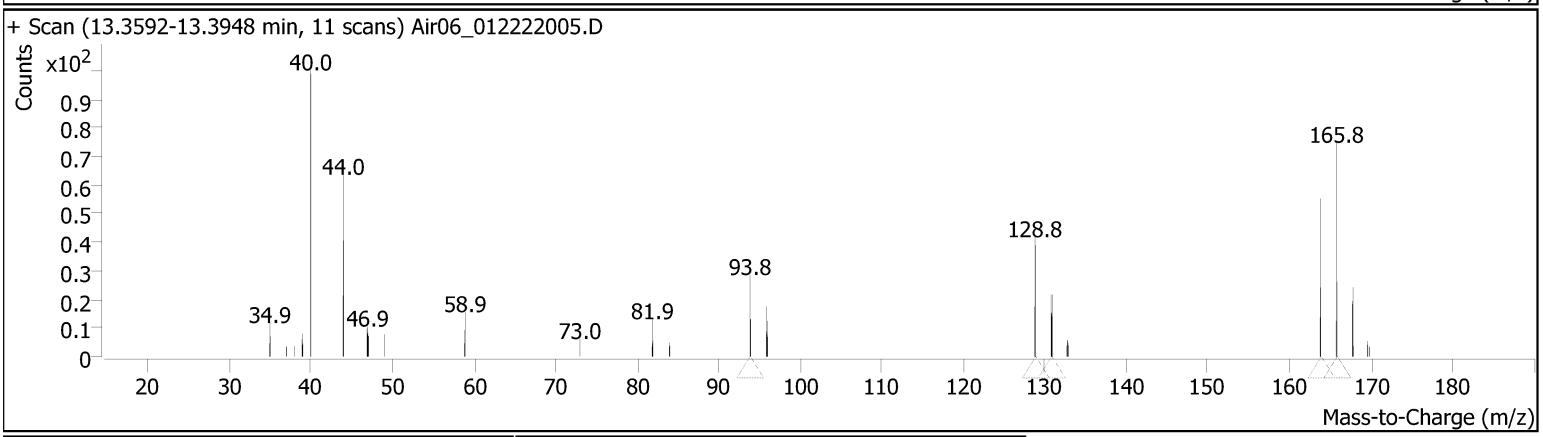



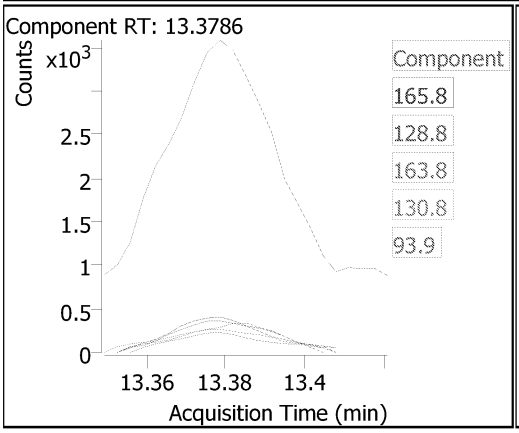



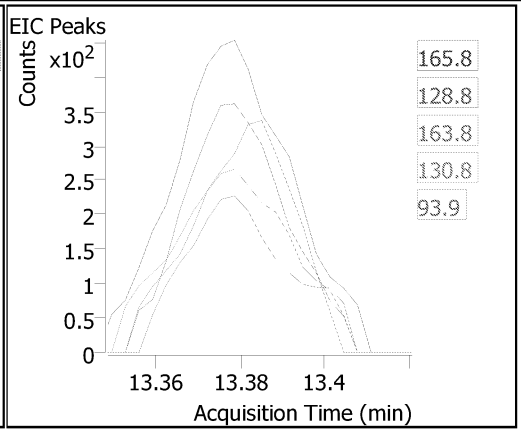
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.3786 | Tetrachloroethylene | 4969.2 | 94.7 | 127-18-4 | C2Cl4 | 0.01087 |

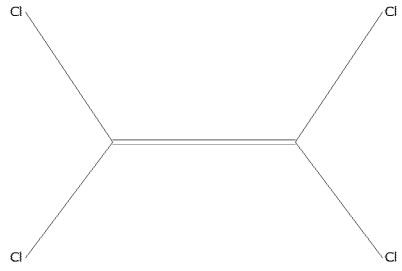


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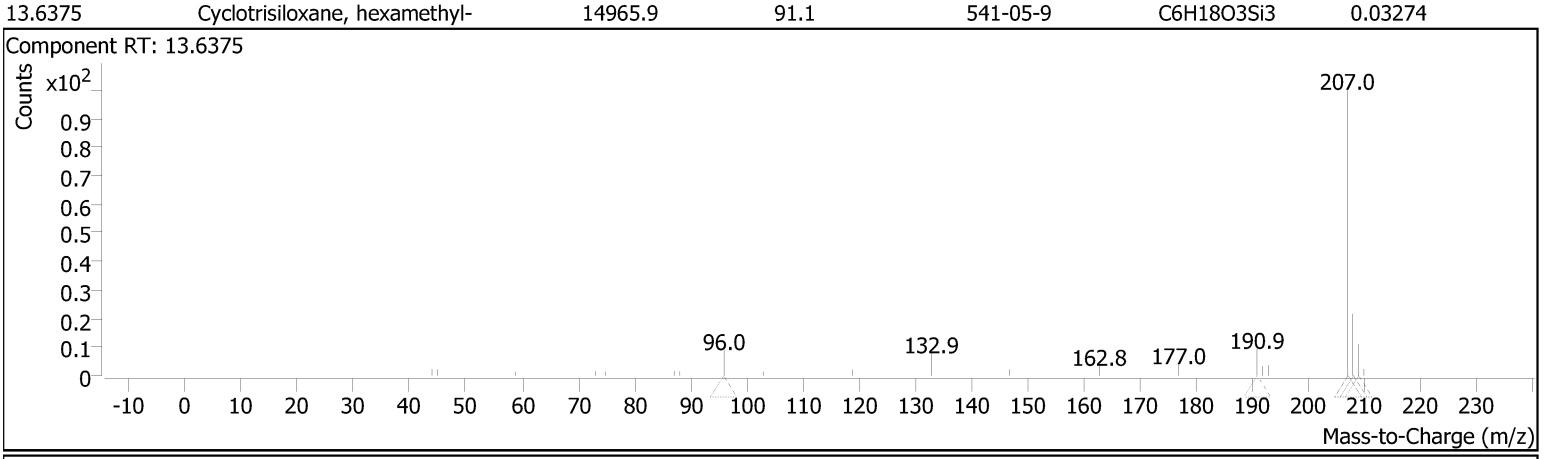
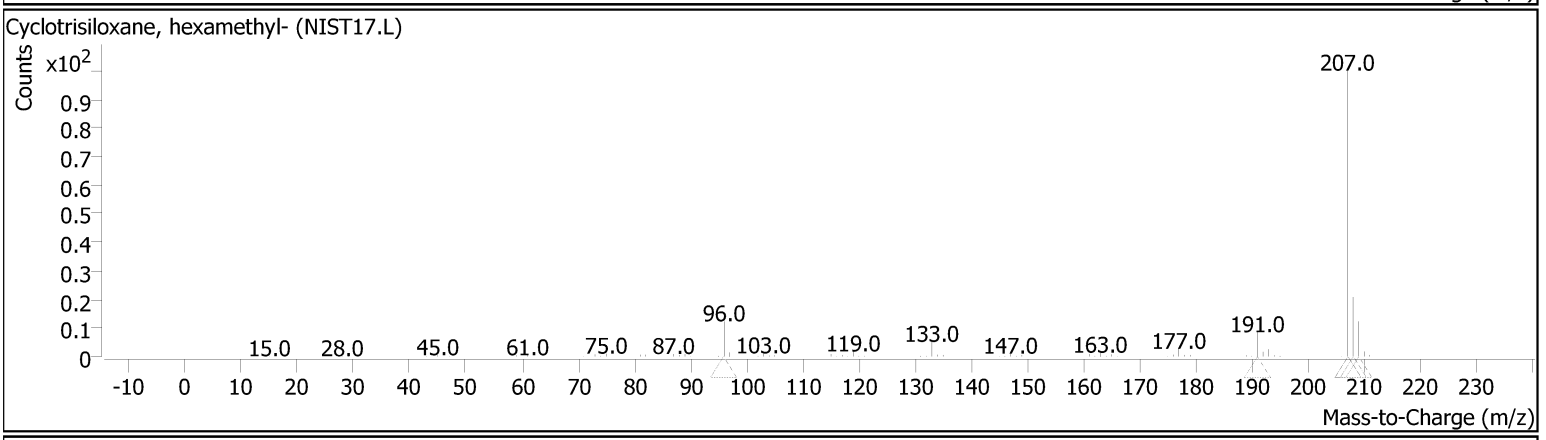
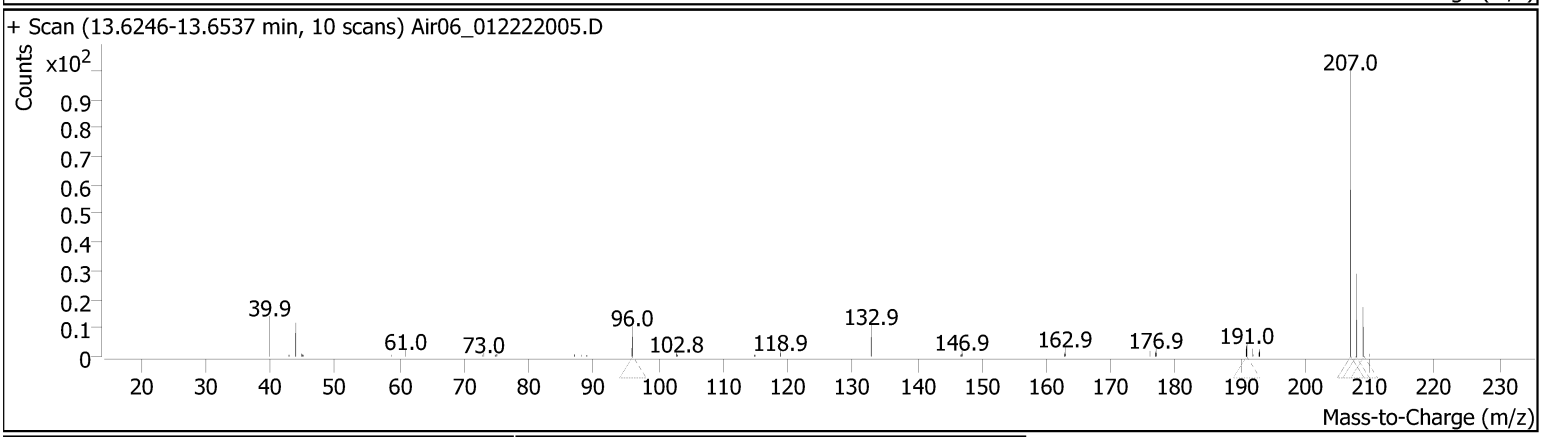
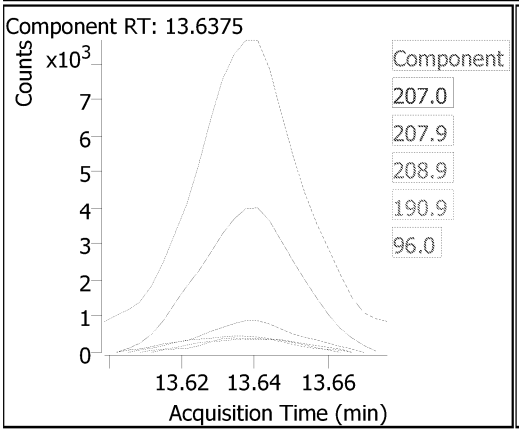
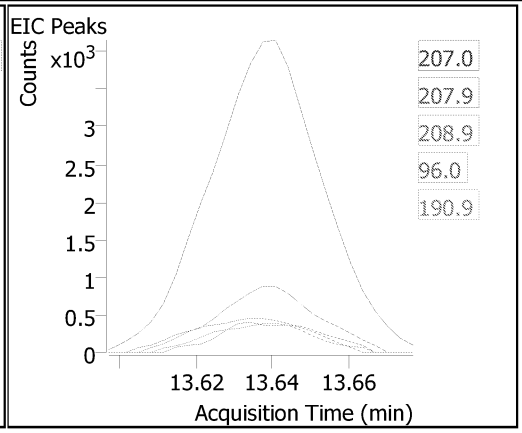
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.6375 | Cyclotrisiloxane, hexamethyl- | 14965.9 | 91.1 | 541-05-9 | C6H18O3Si3 | 0.03274 |

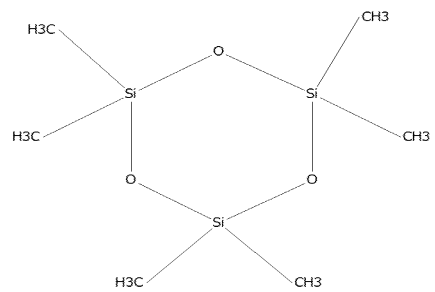


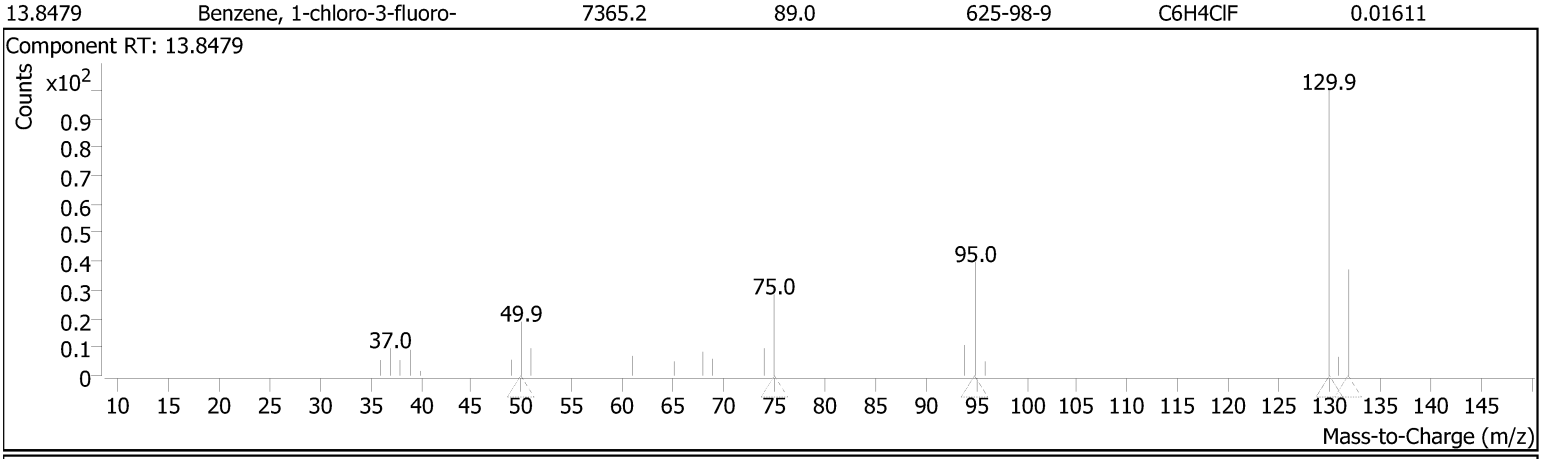



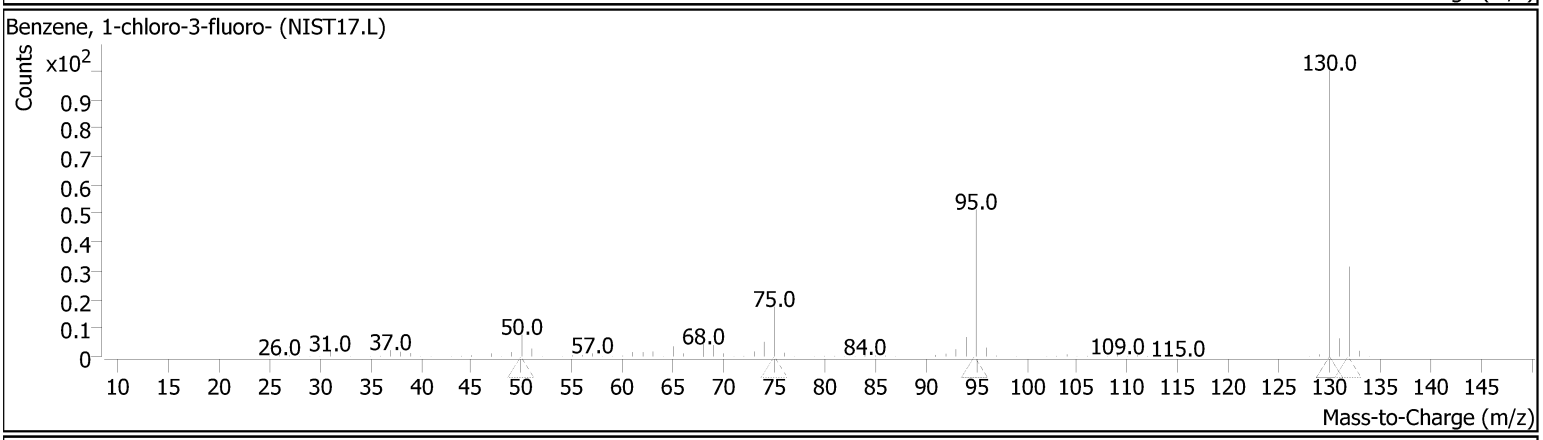



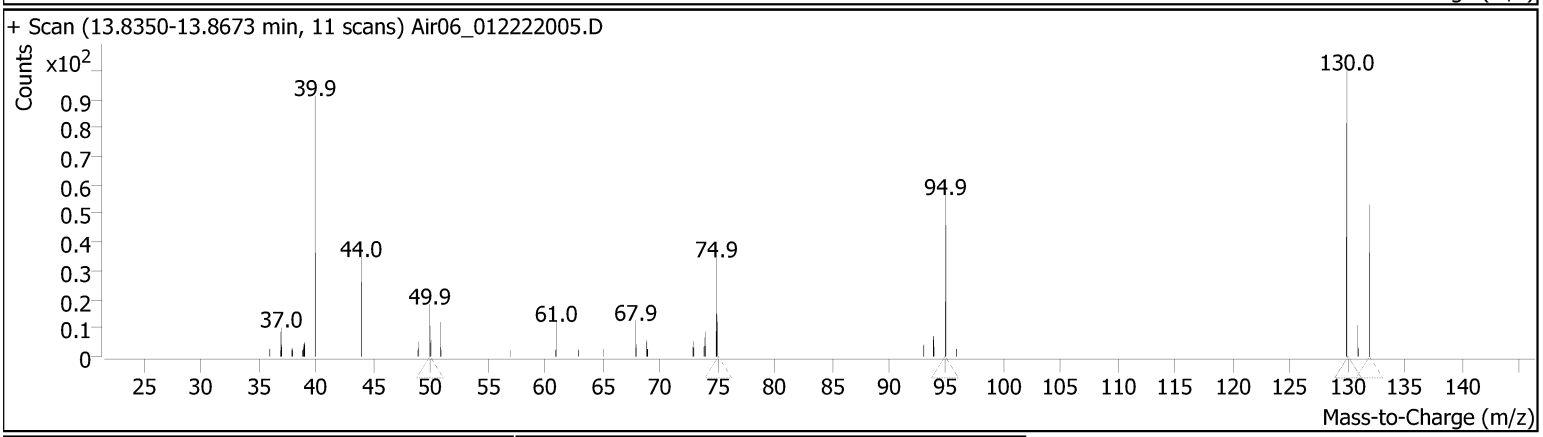



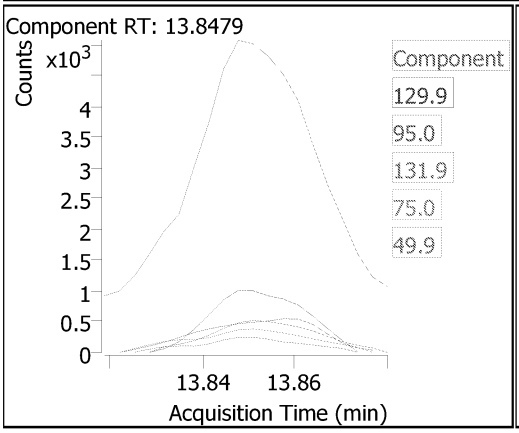



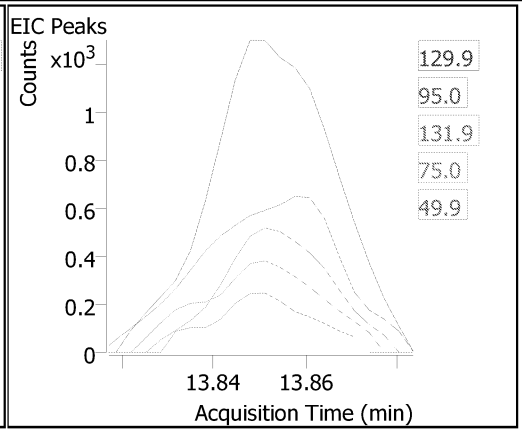
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 13.8479 | Benzene, 1-chloro-3-fluoro- | 7365.2 | 89.0 | 625-98-9 | C6H4ClF | 0.01611 |

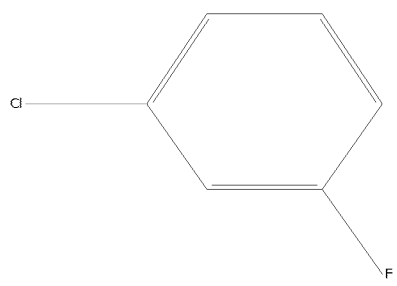


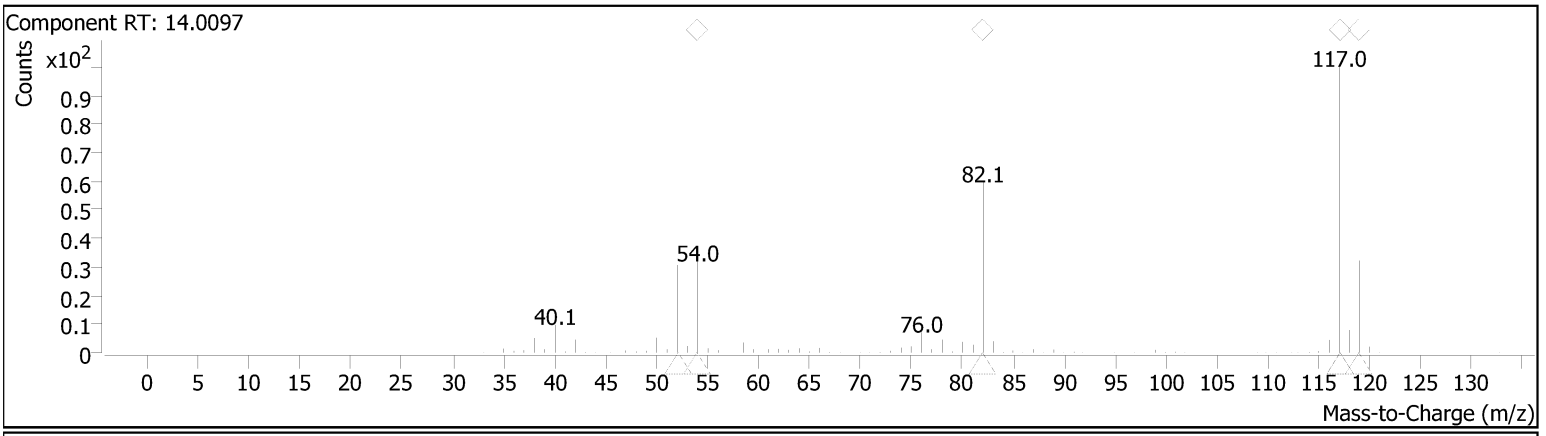



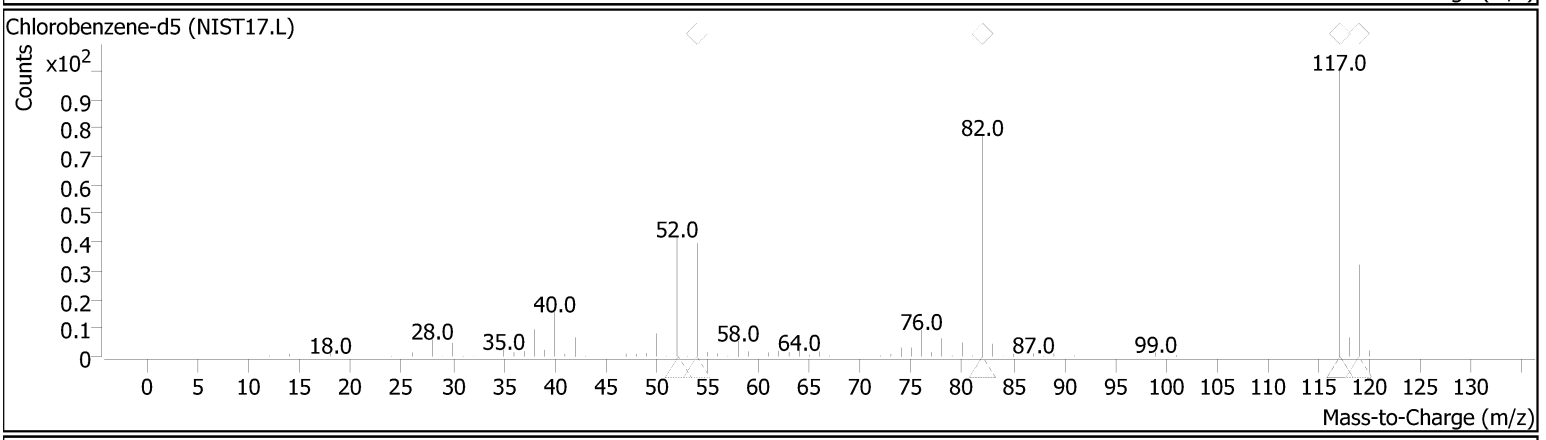



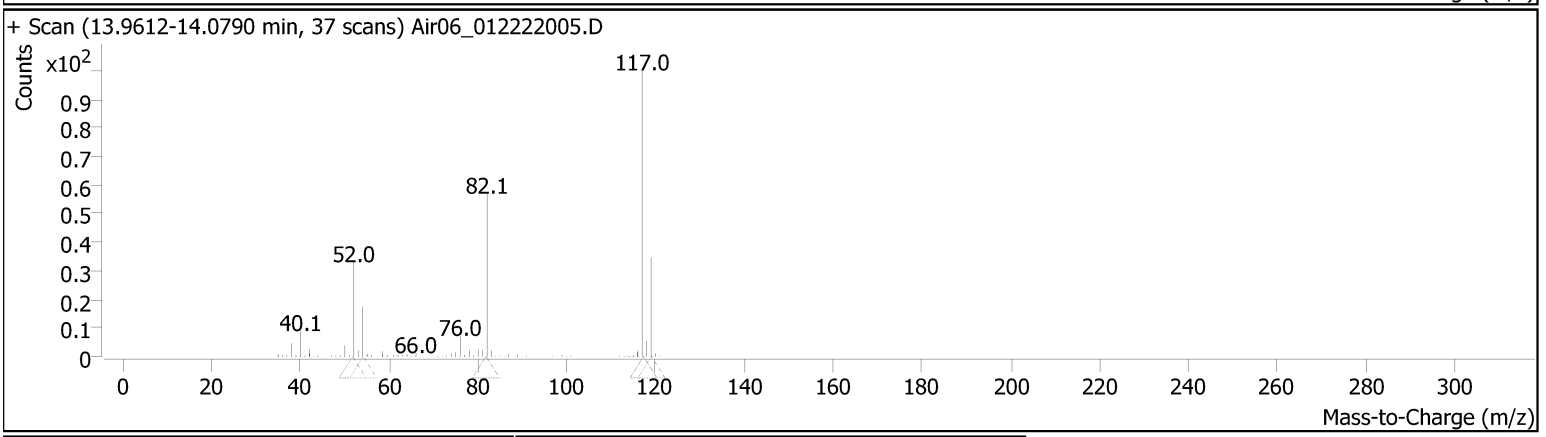



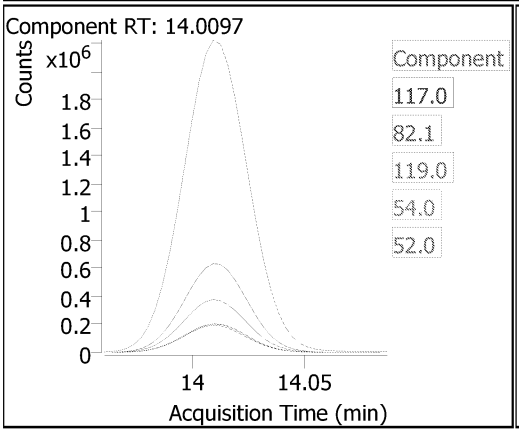



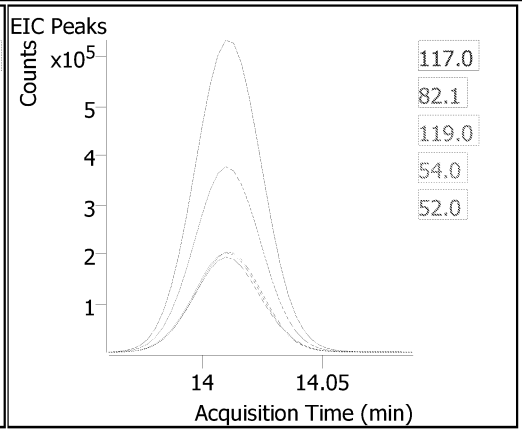
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.0097 | Chlorobenzene-d5 | 4571499.3 | 95.8 | 3114-55-4 | C6D5Cl | 10 |

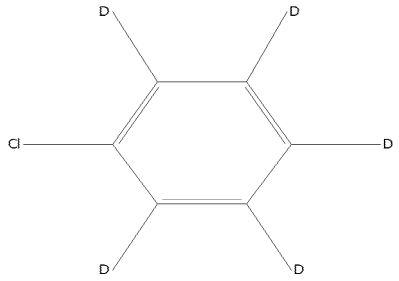


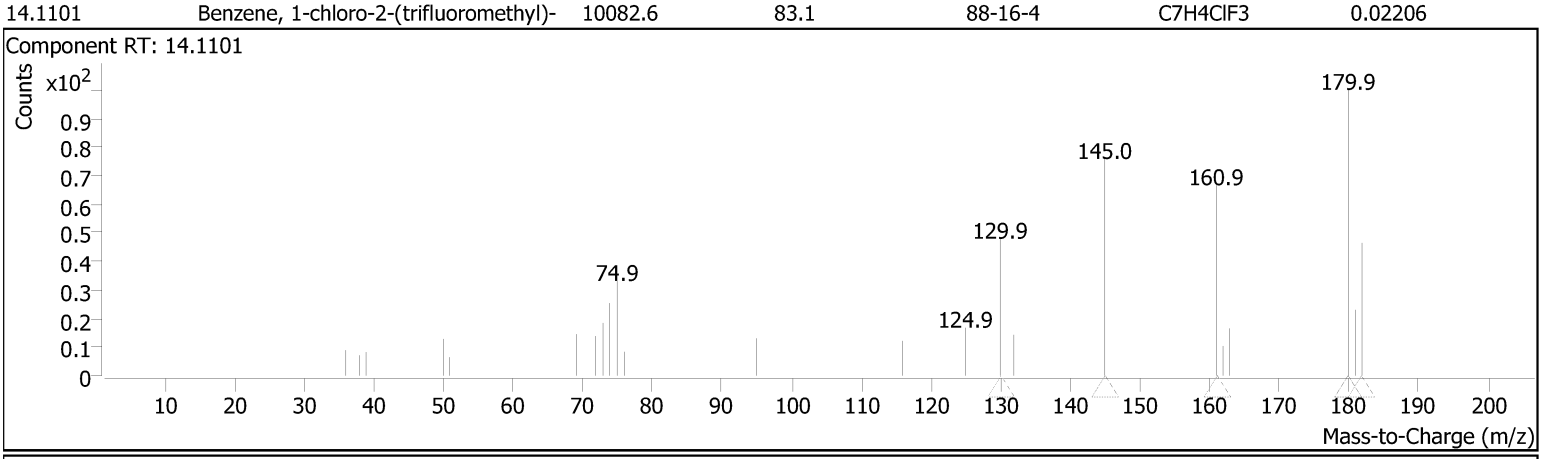



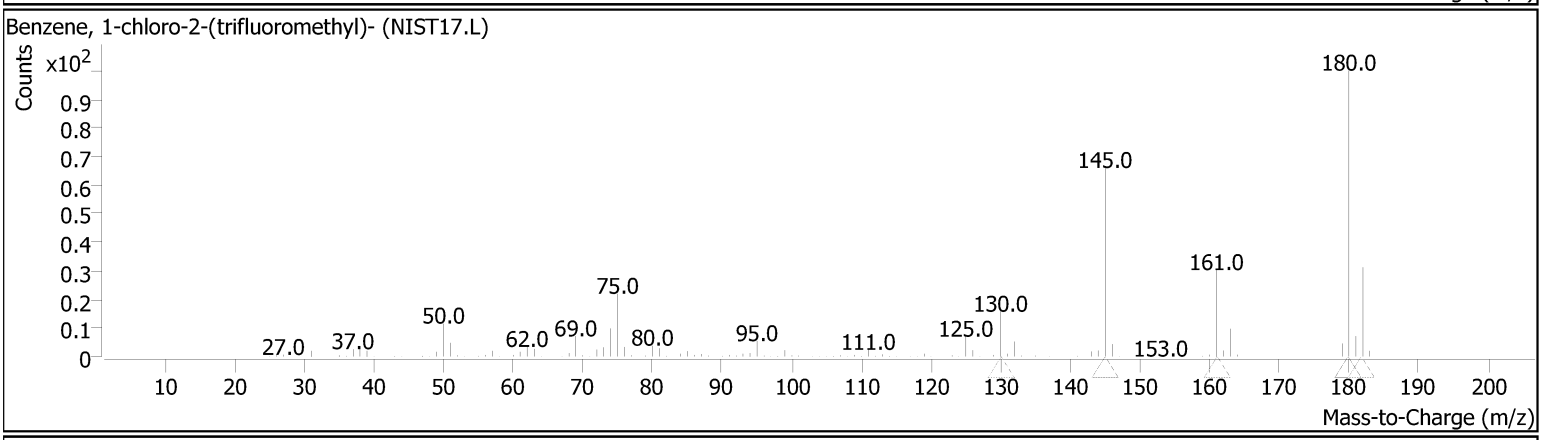



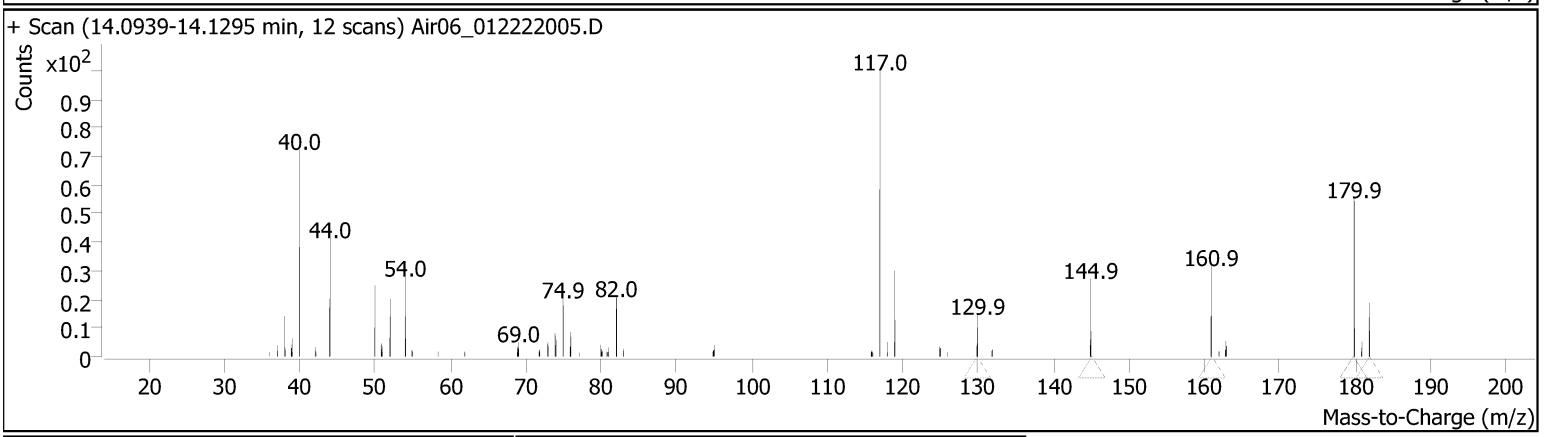



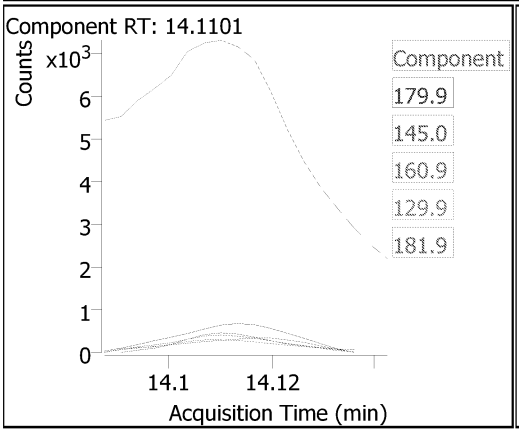



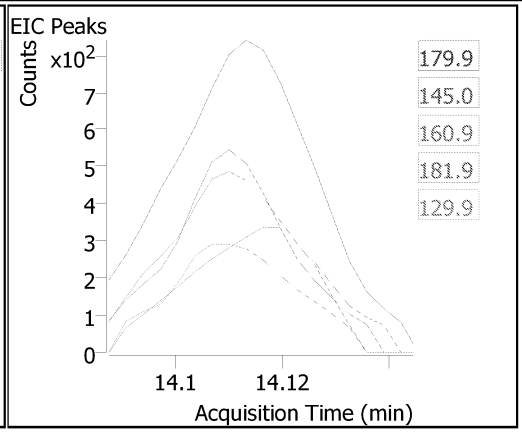
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.1101 | Benzene, 1-chloro-2-(trifluoromethyl)- | 10082.6 | 83.1 | 88-16-4 | C7H4ClF3 | 0.02206 |

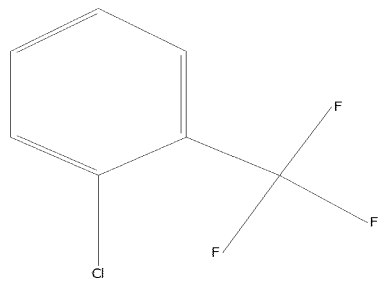


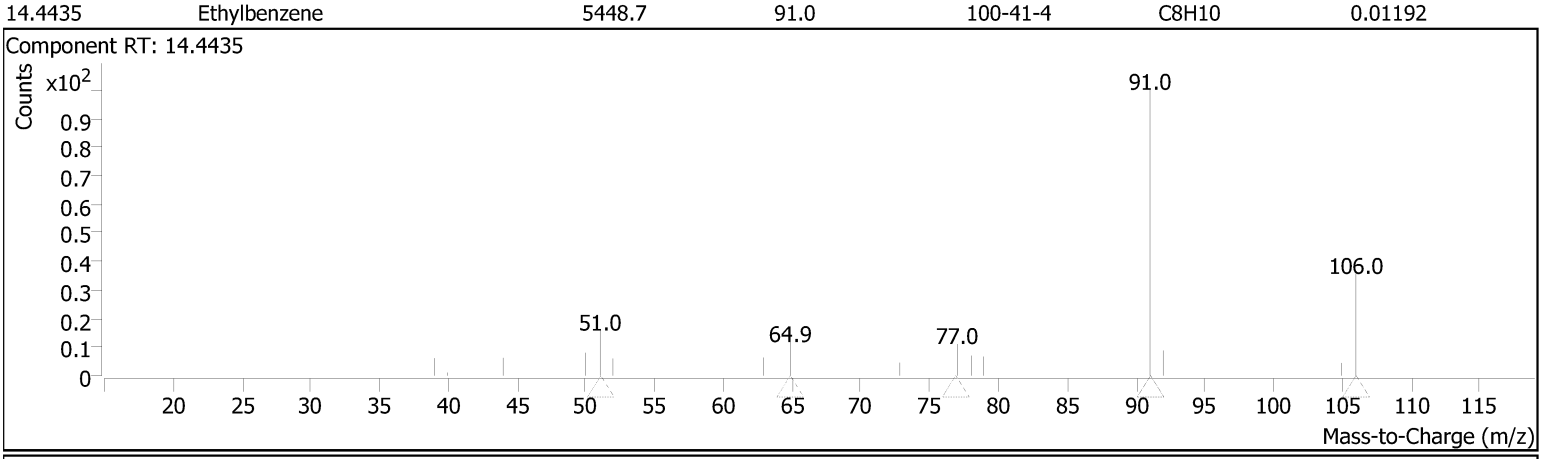



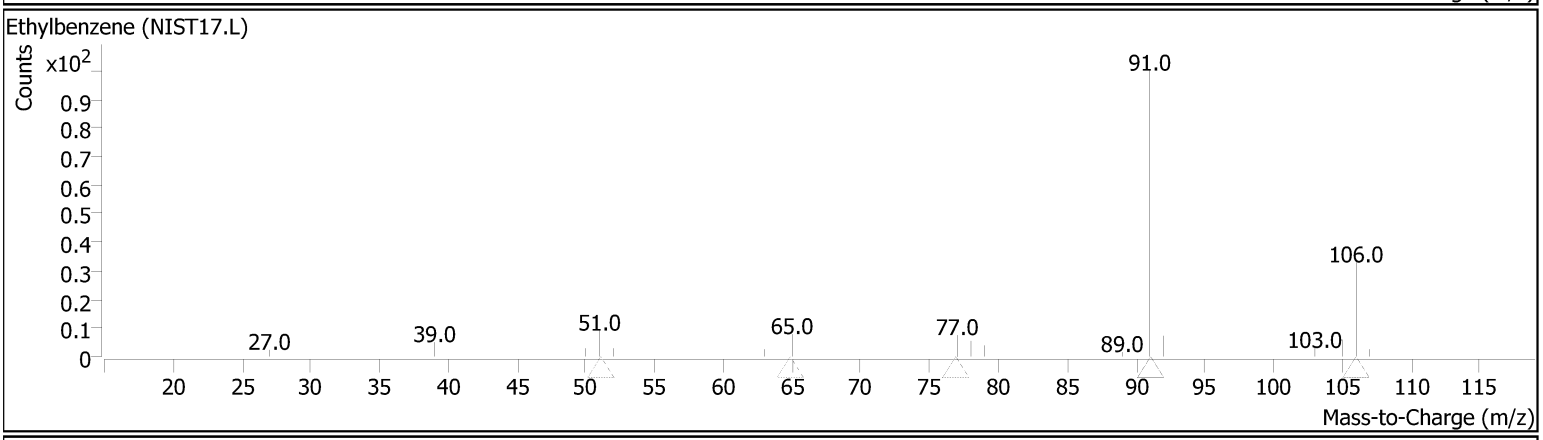



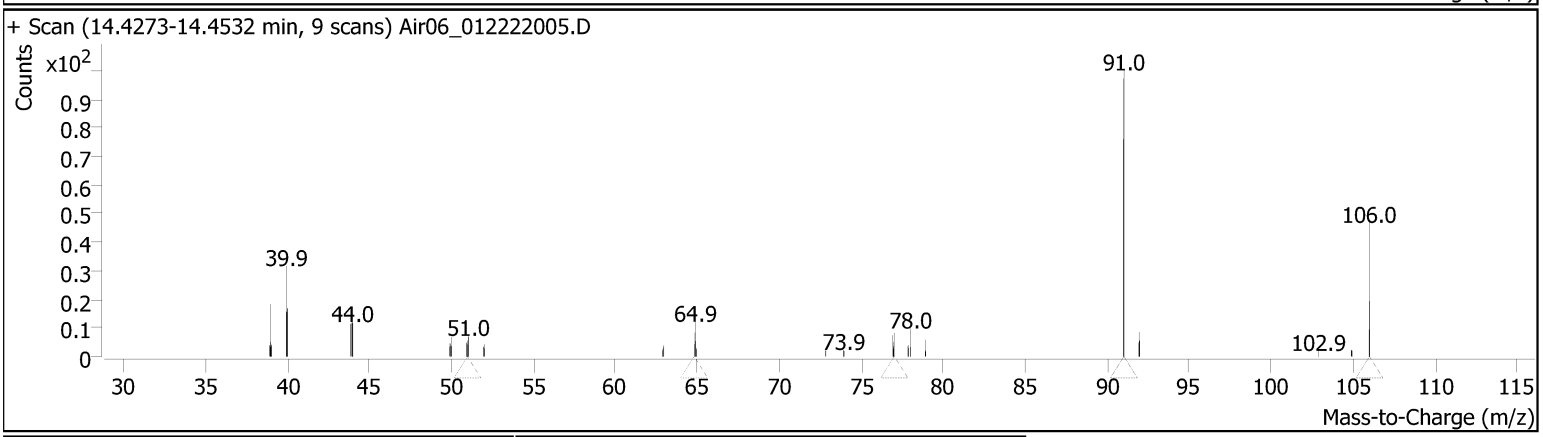



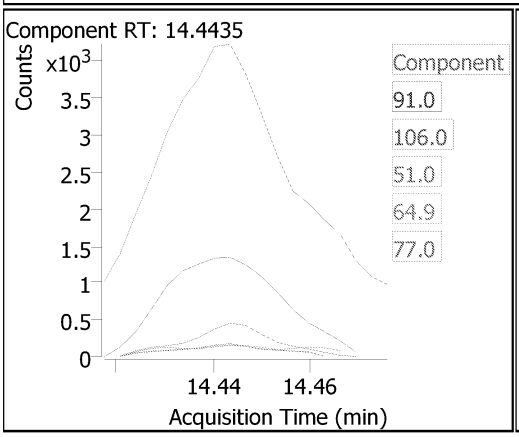



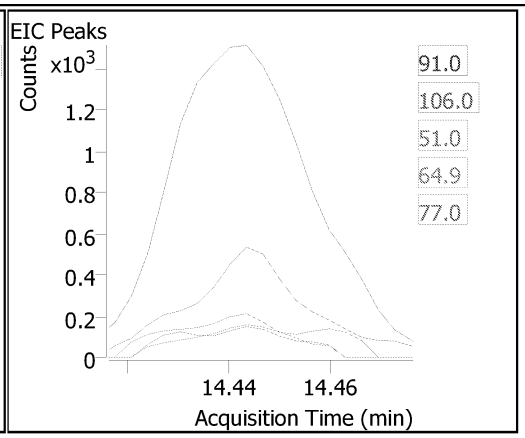
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.4435 | Ethylbenzene | 5448.7 | 91.0 | 100-41-4 | C8H10 | 0.01192 |

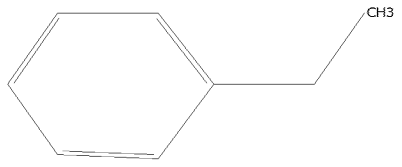


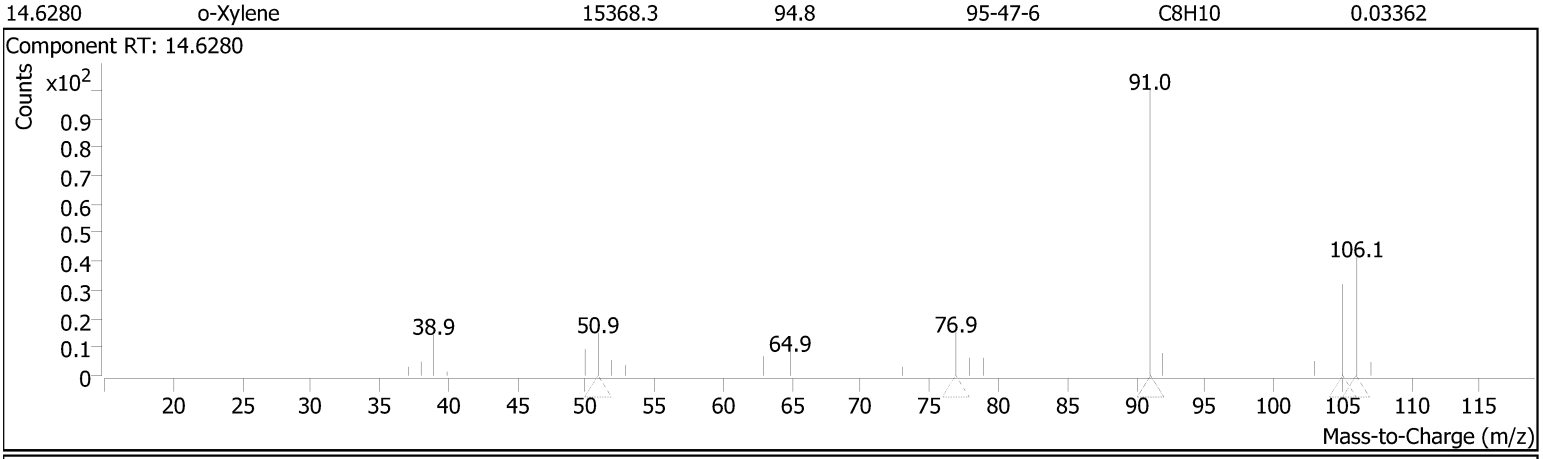



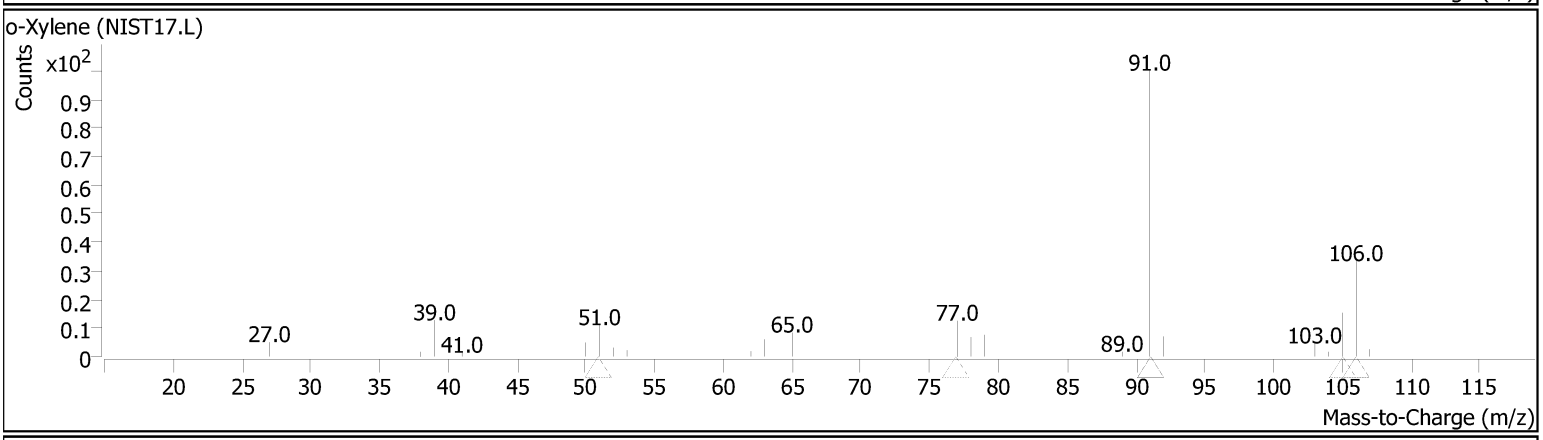



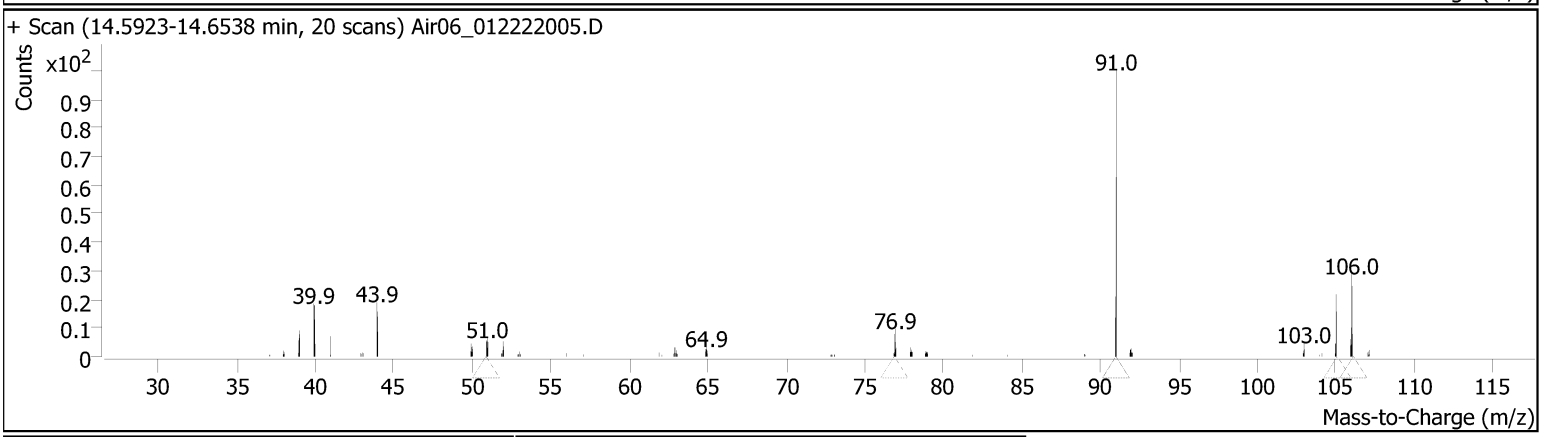



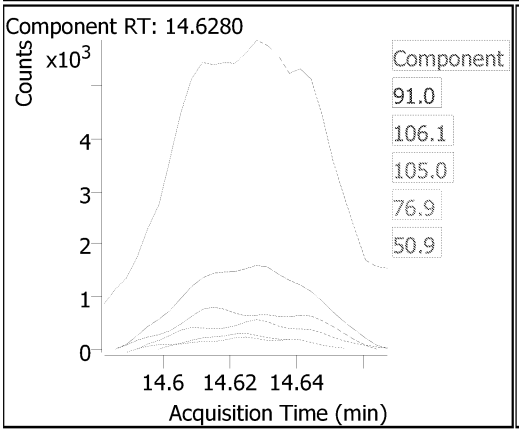



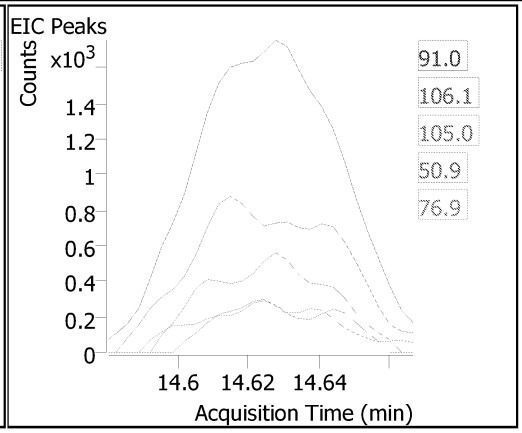
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.6280 | o-Xylene | 15368.3 | 94.8 | 95-47-6 | C8H10 | 0.03362 |

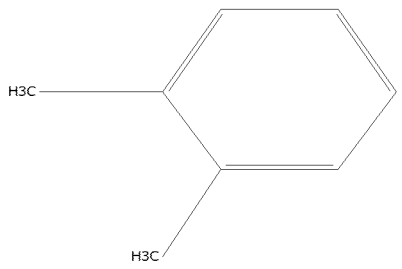


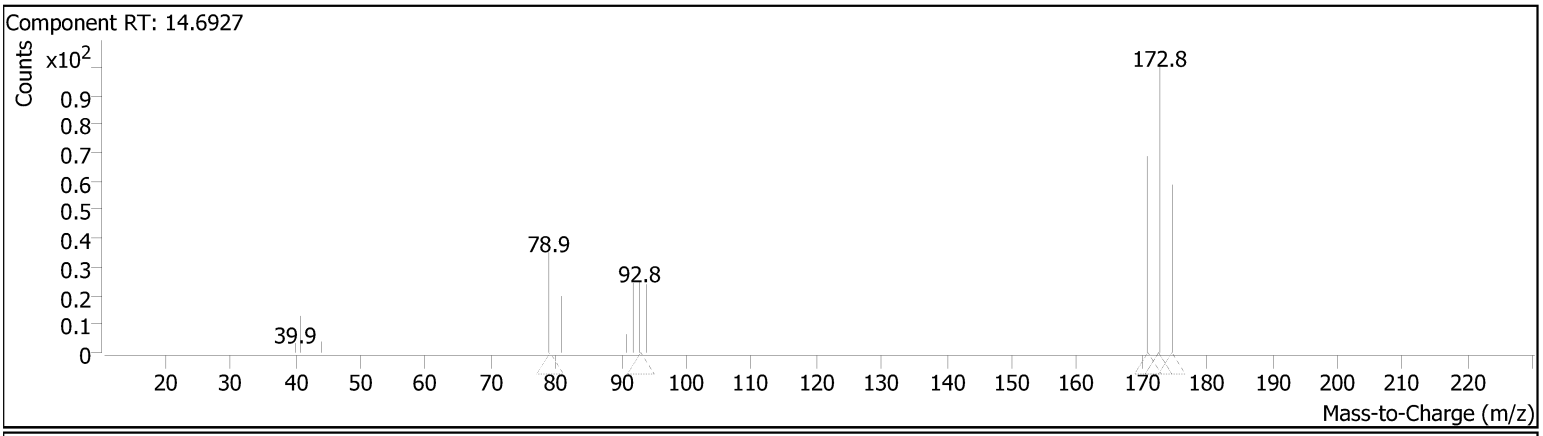



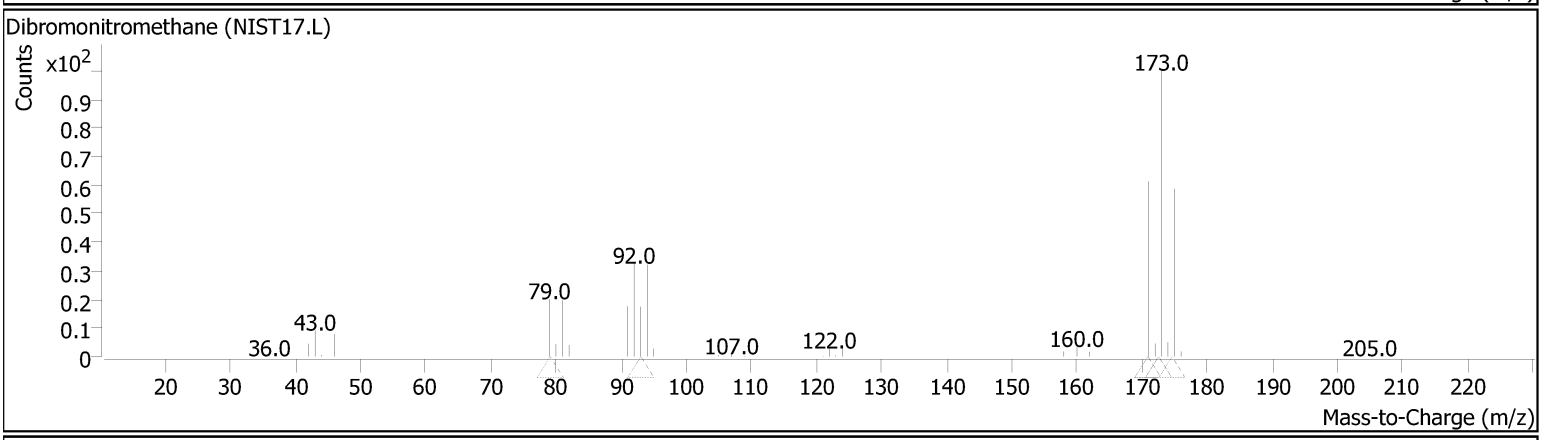



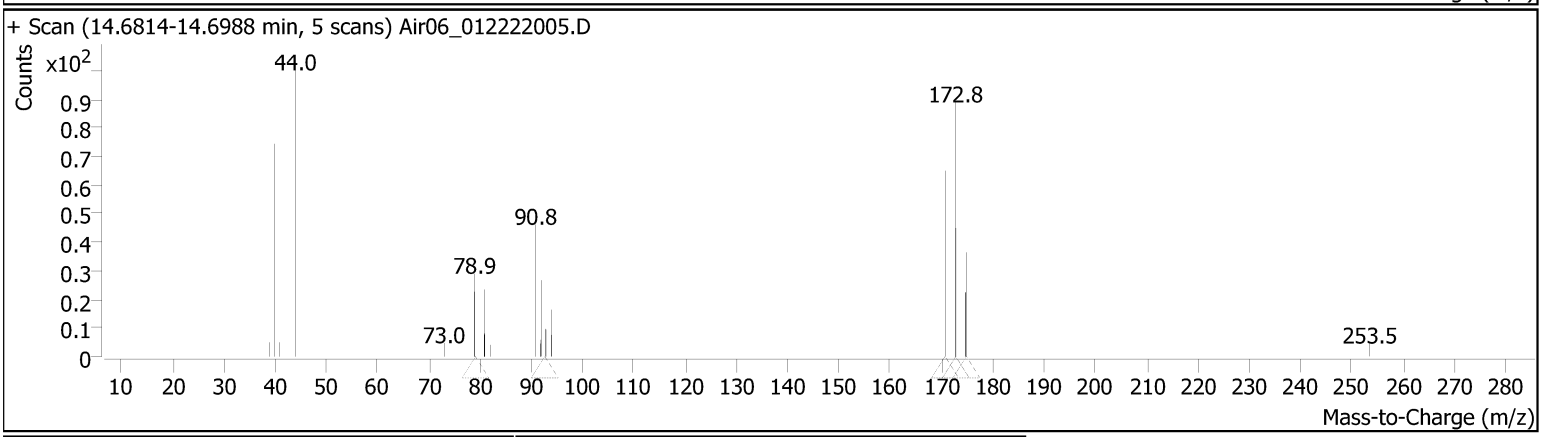



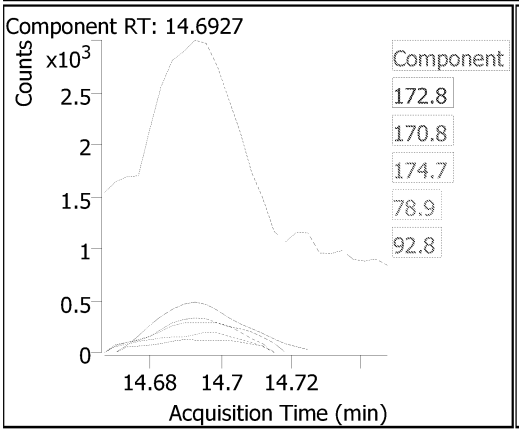



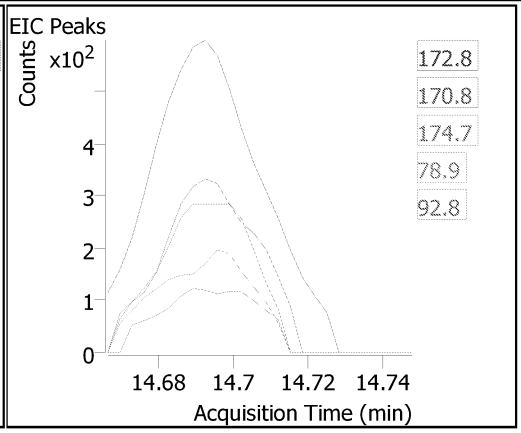
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.6927 | Dibromonitromethane | 4345.4 | 86.3 | 598-91-4 | CHBr2NO2 | 0.009505 |

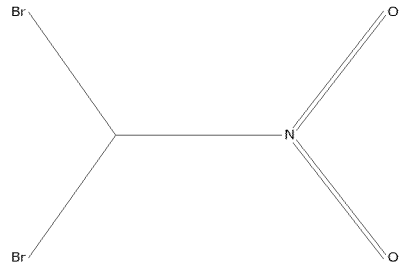


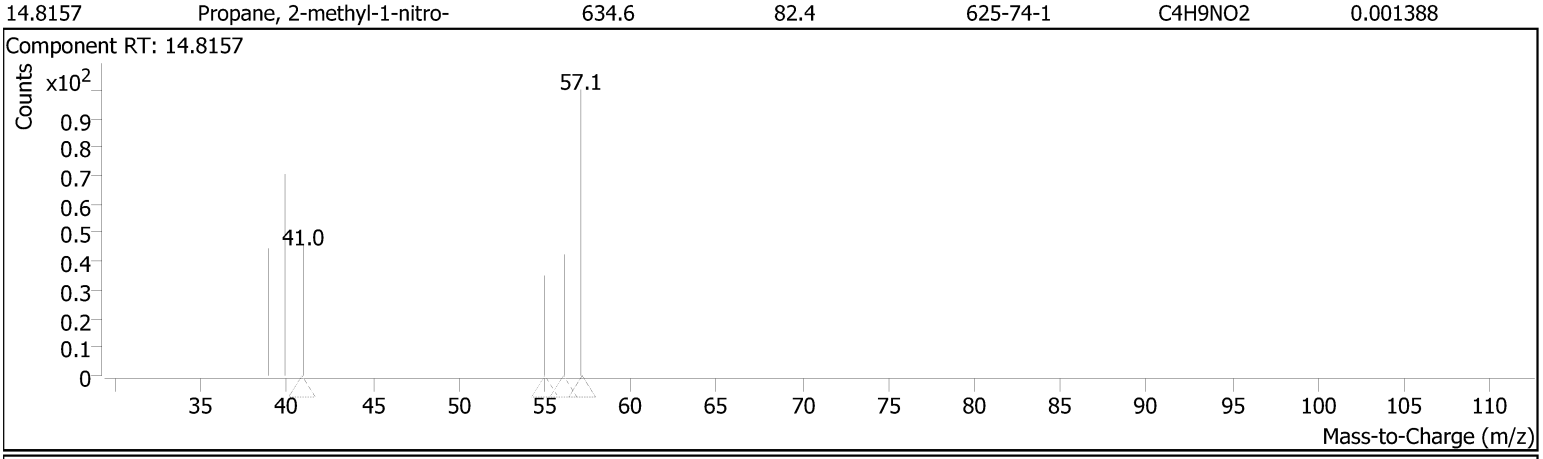



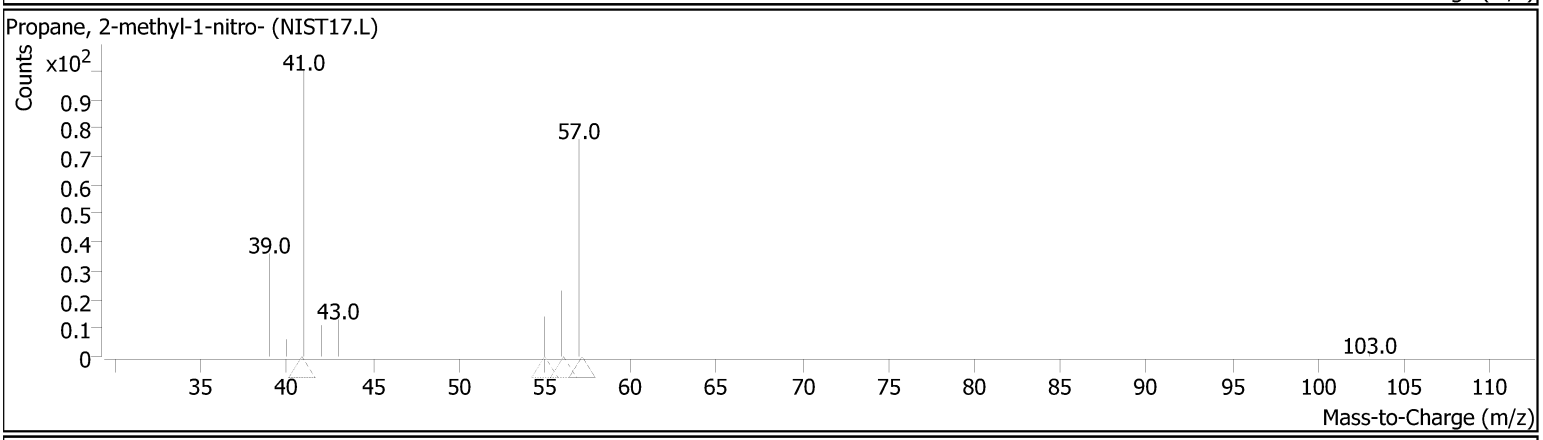



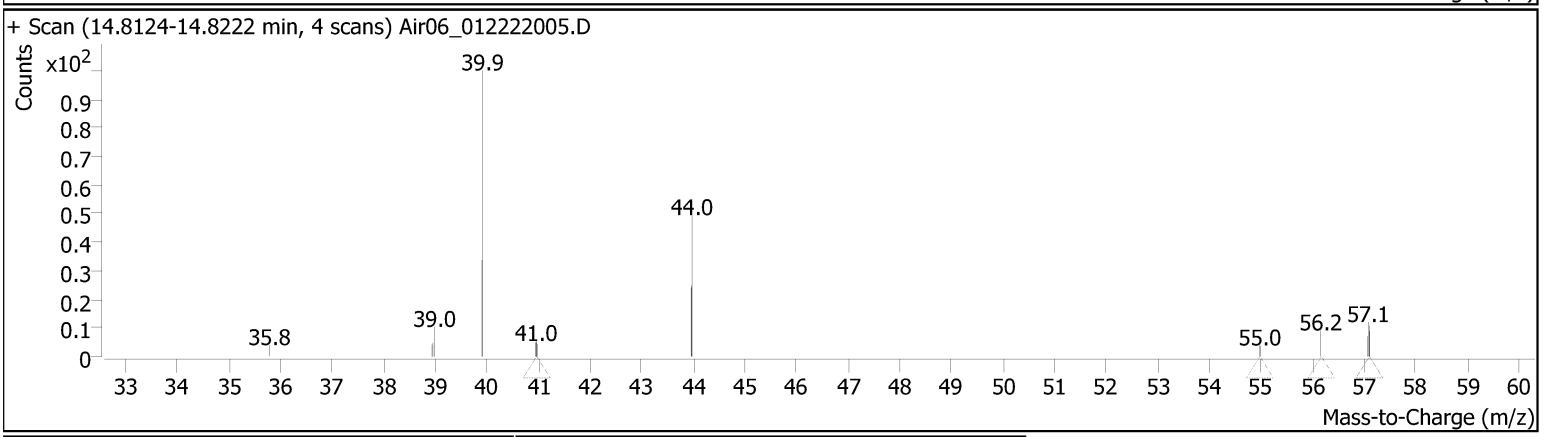



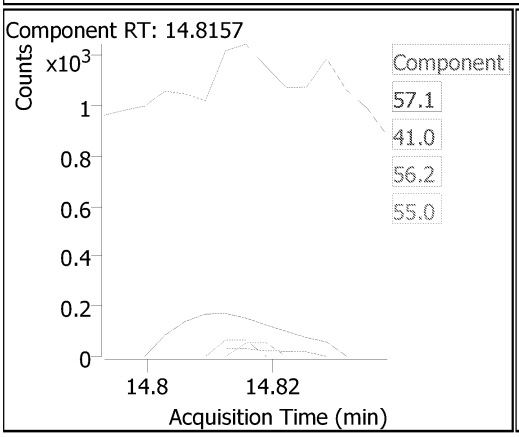



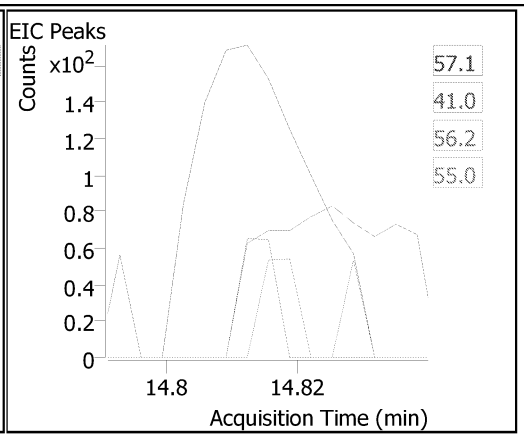
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 14.8157 | Propane, 2-methyl-1-nitro- | 634.6 | 82.4 | 625-74-1 | C4H9NO2 | 0.001388 |

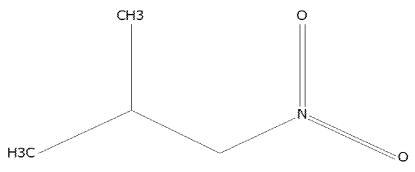


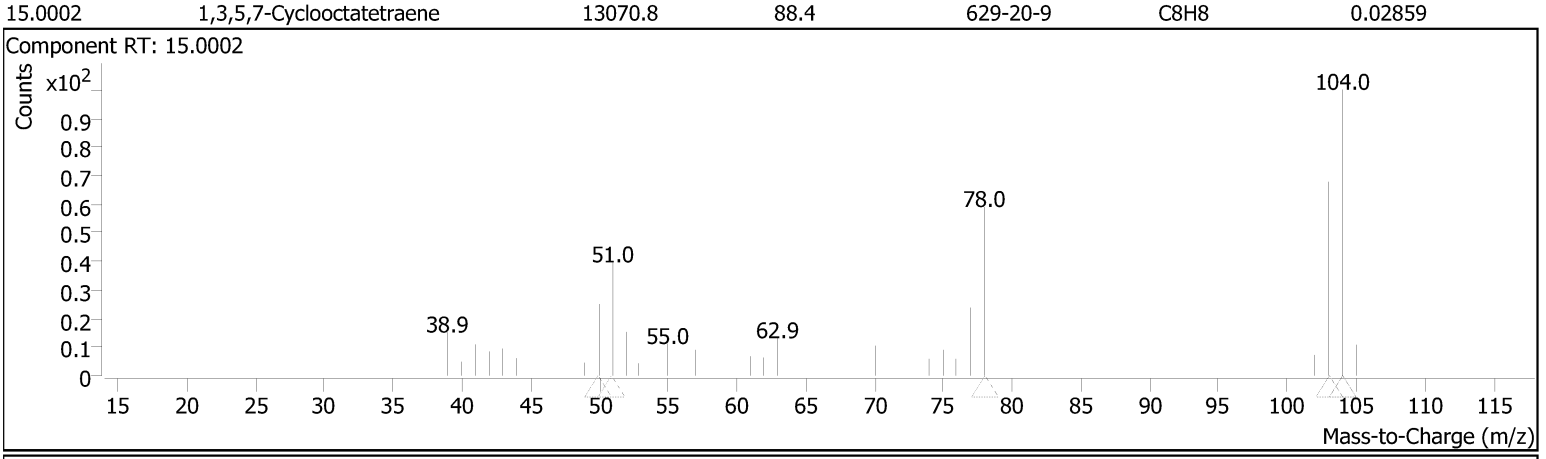



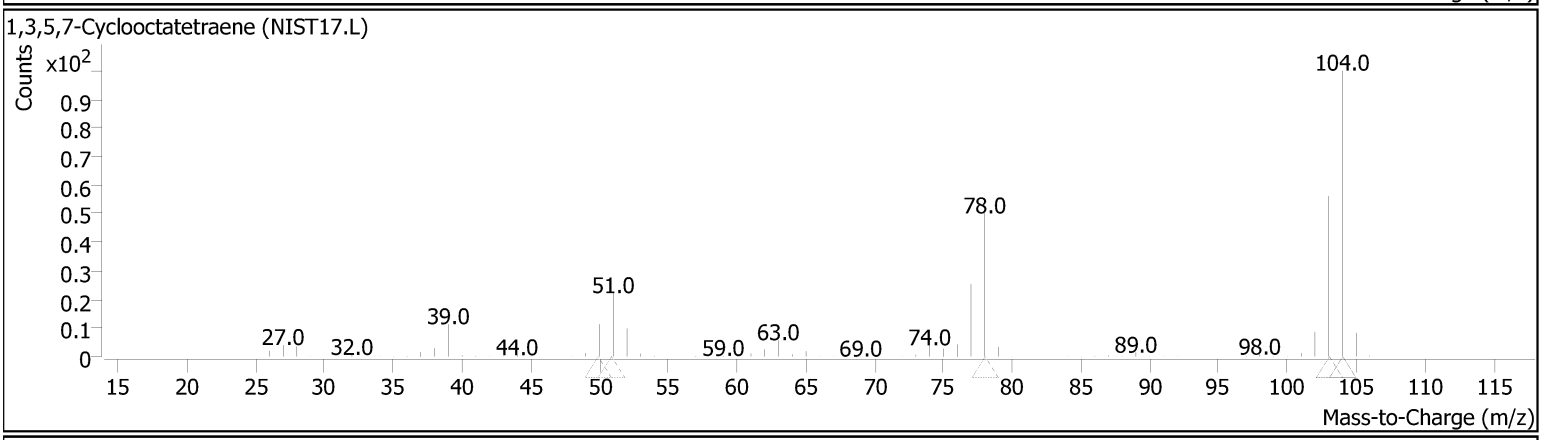



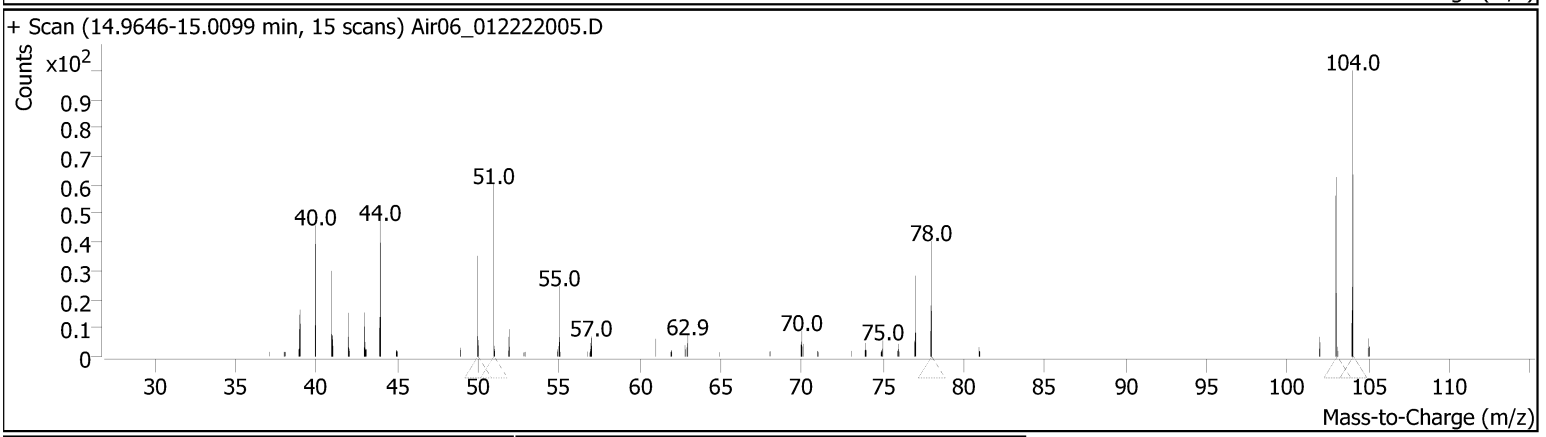



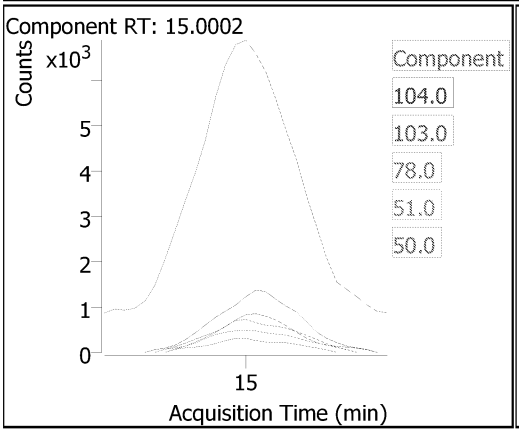



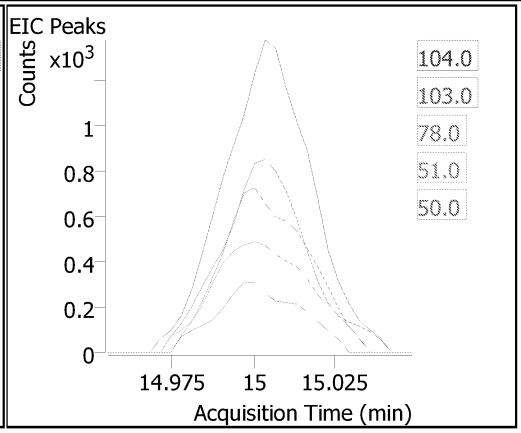
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.0002 | 1,3,5,7-Cyclooctatetraene | 13070.8 | 88.4 | 629-20-9 | C8H8 | 0.02859 |

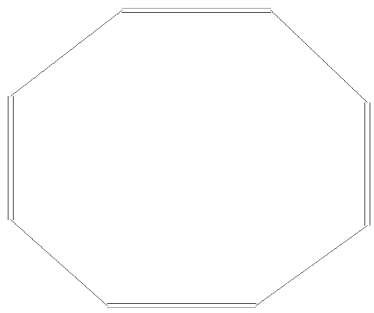


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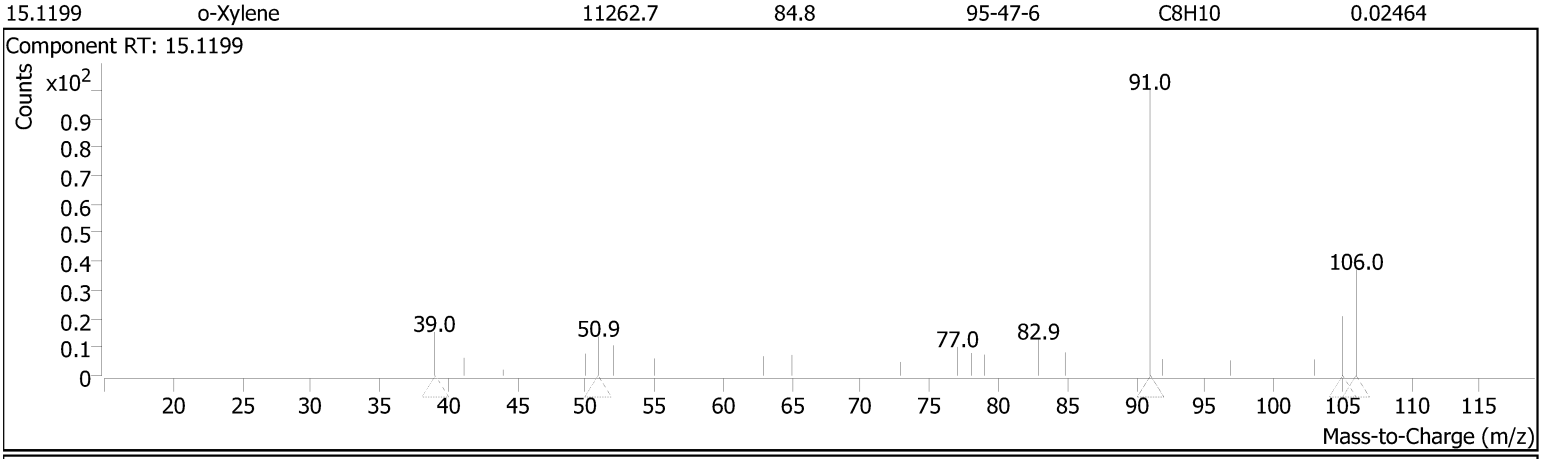
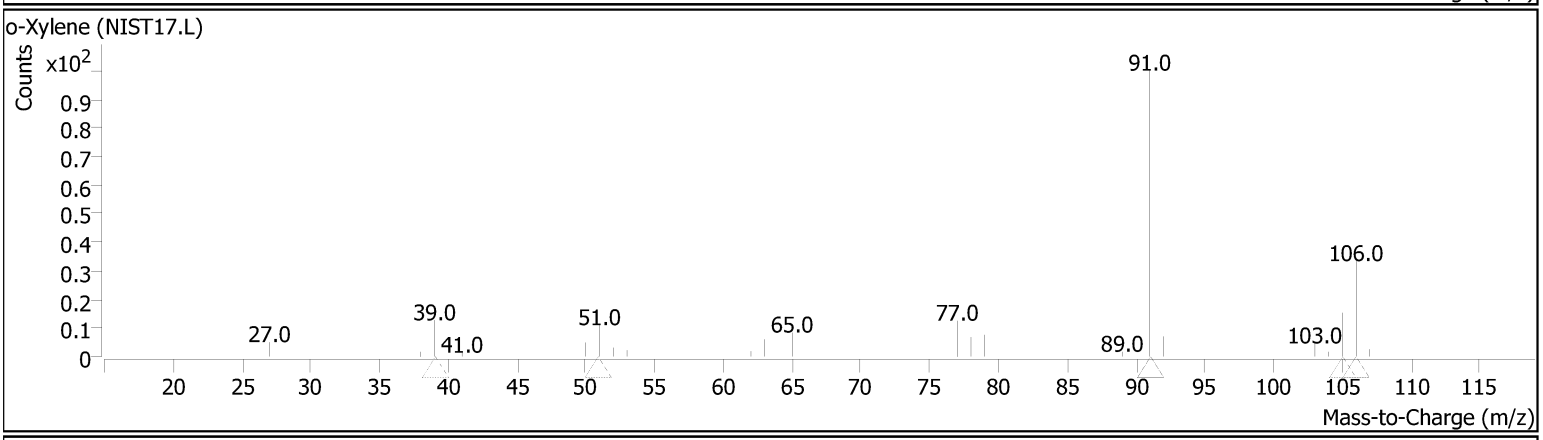
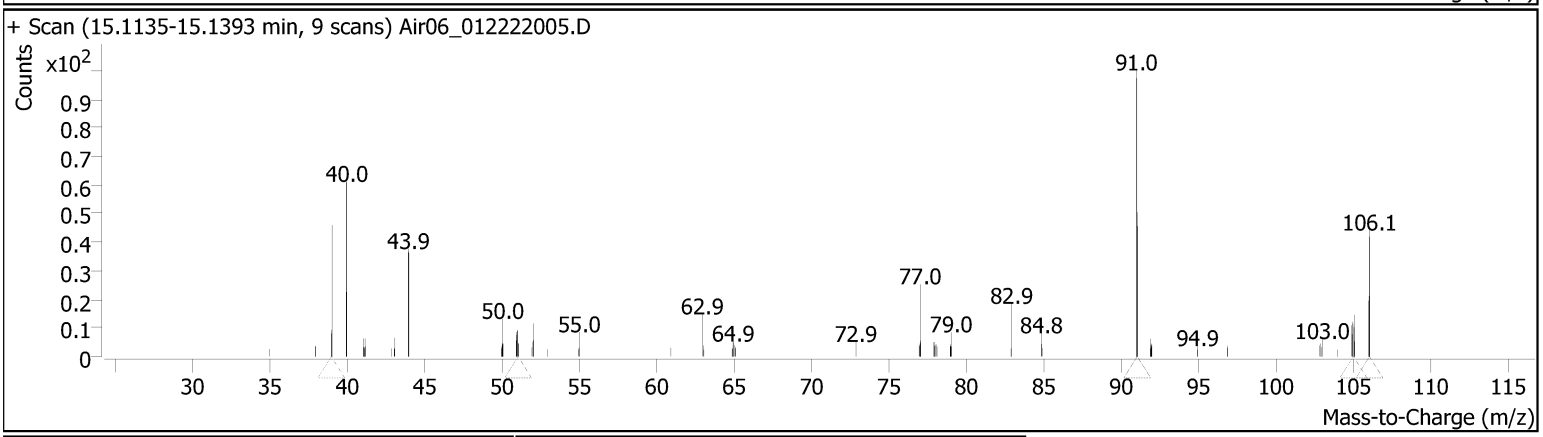
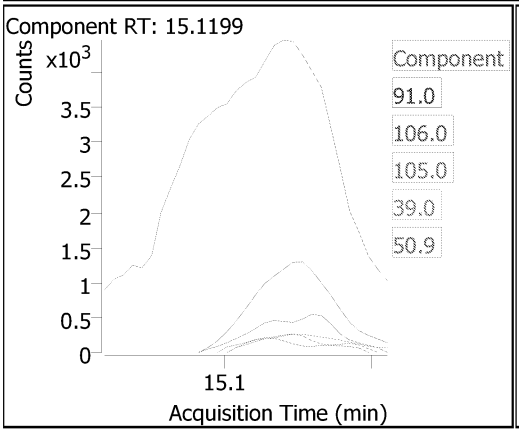
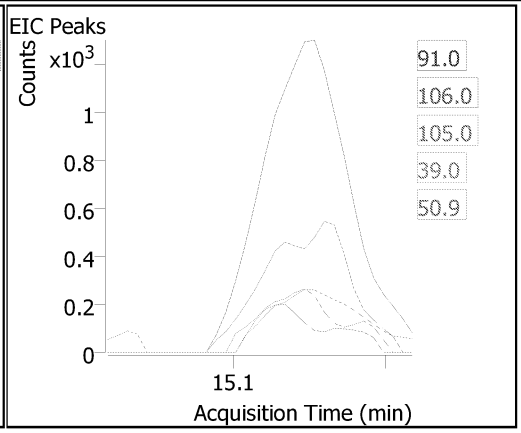
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.1199 | o-Xylene | 11262.7 | 84.8 | 95-47-6 | C8H10 | 0.02464 |

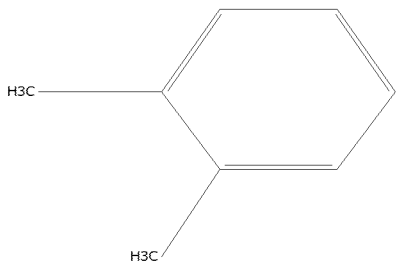


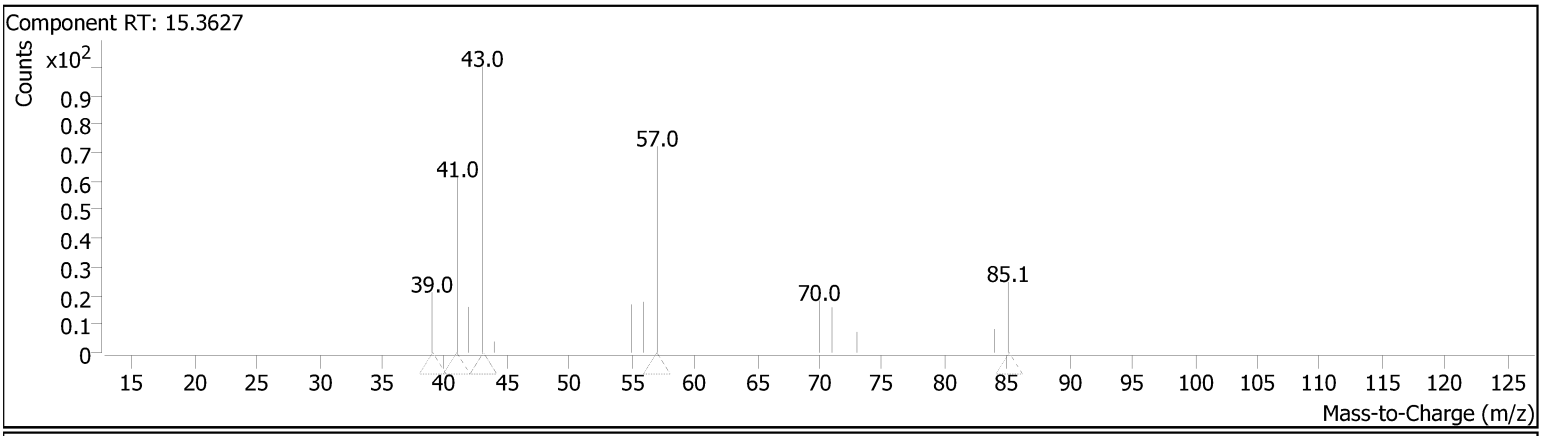



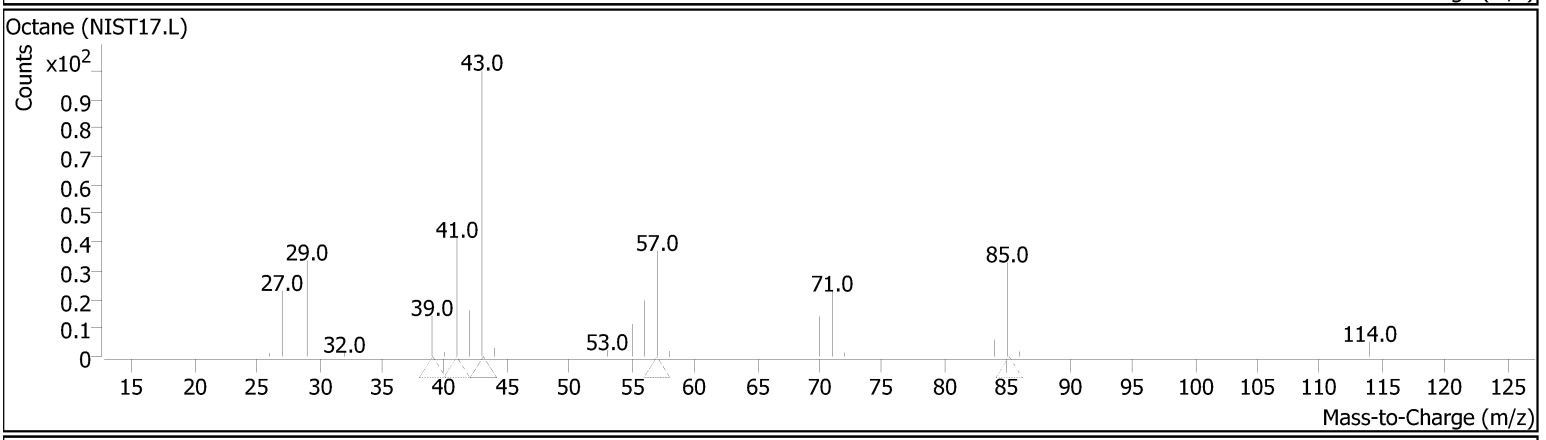



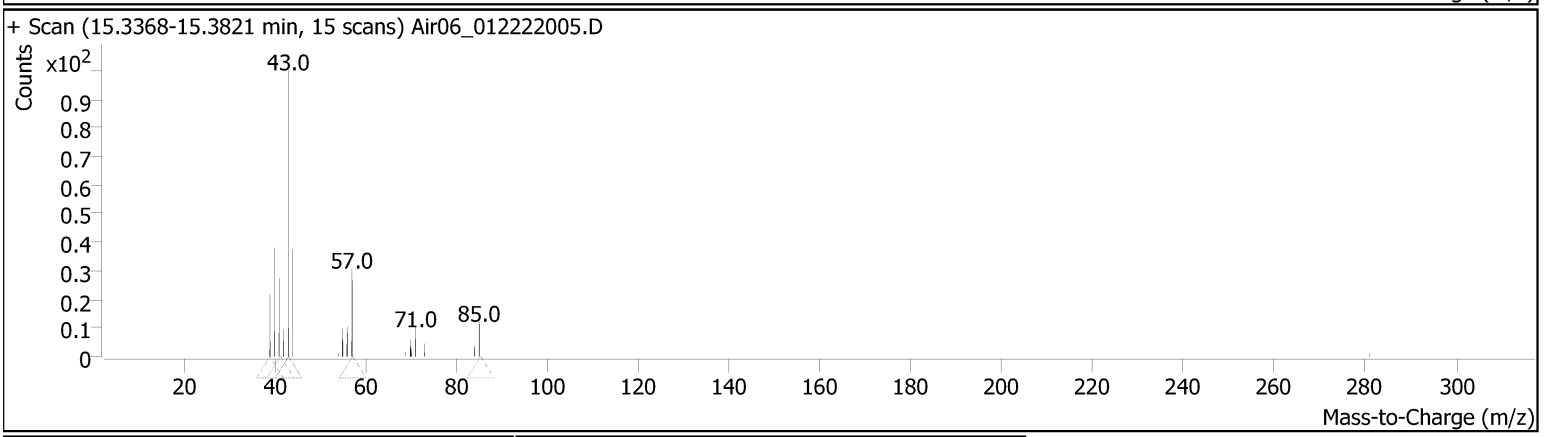



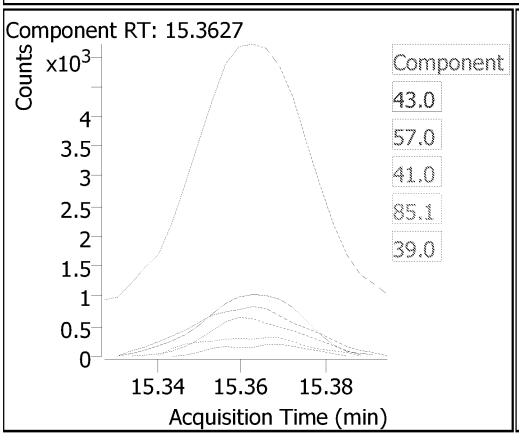



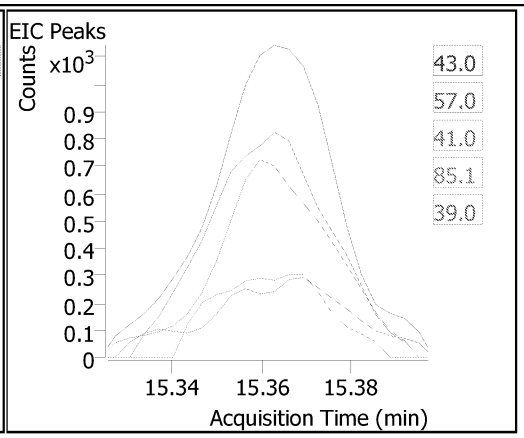
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.3627 | Octane | 8286.9 | 89.8 | 111-65-9 | C8H18 | 0.01813 |



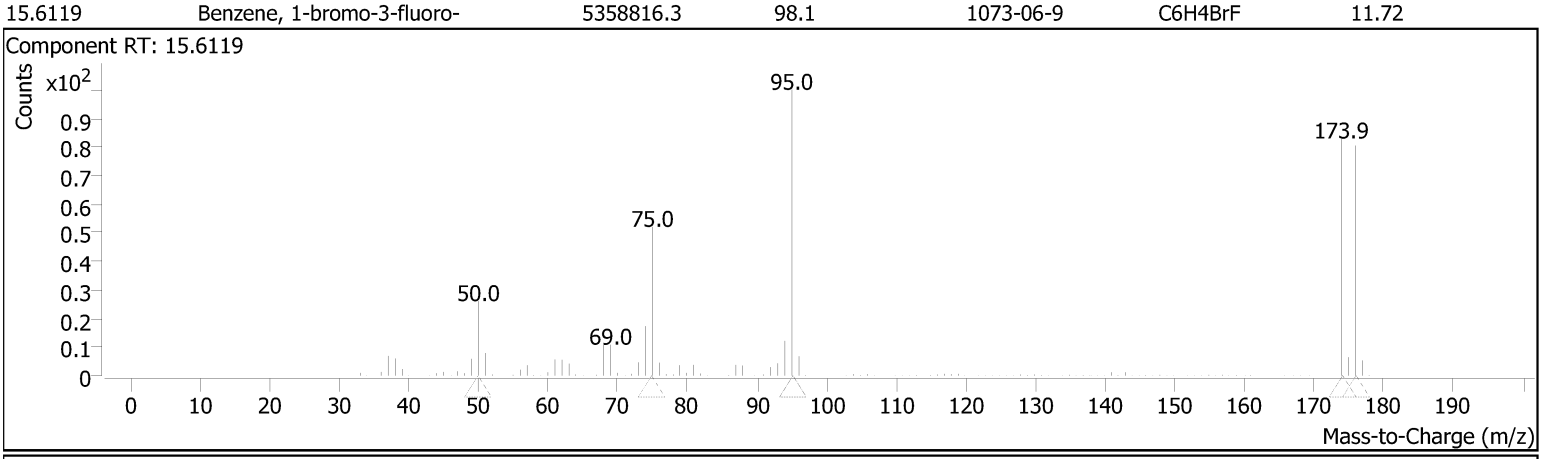



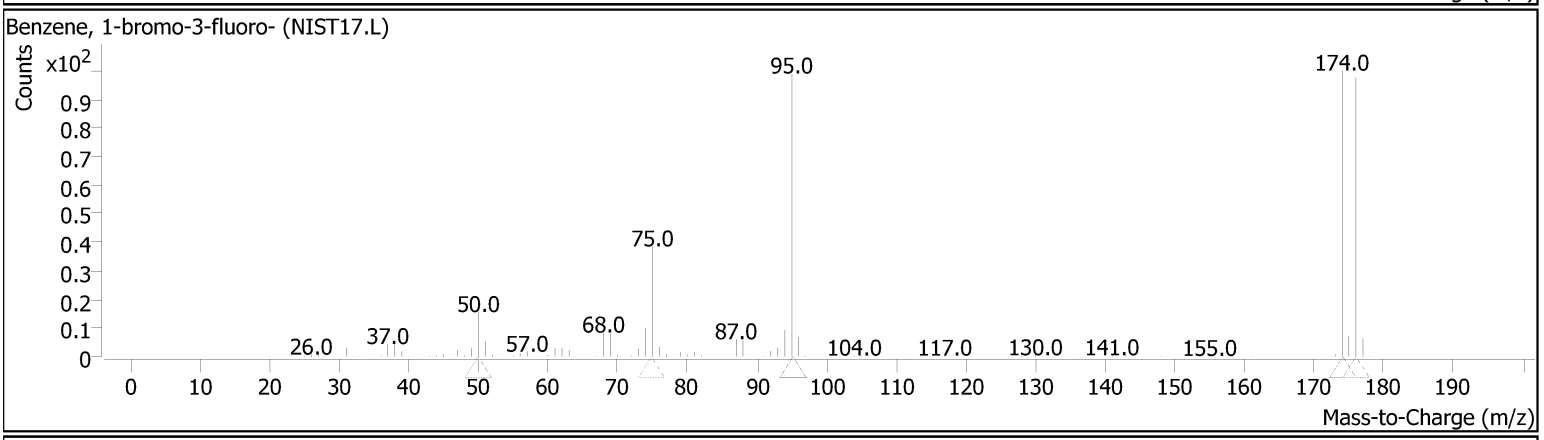



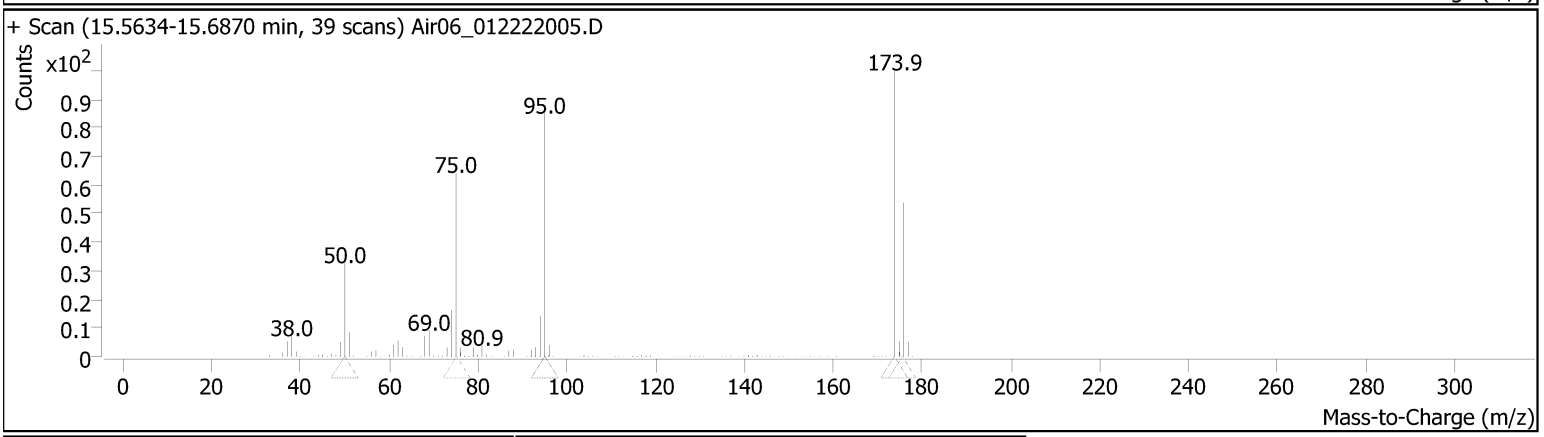



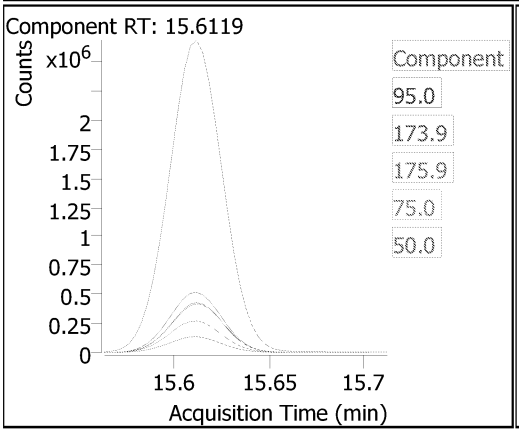


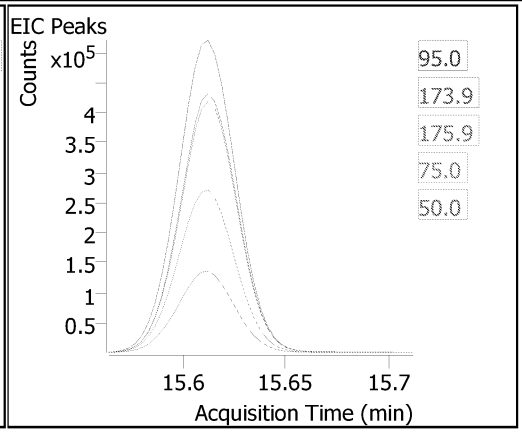

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.6119 | Benzene, 1-bromo-3-fluoro- | 5358816.3 | 98.1 | 1073-06-9 | C6H4BrF | 11.72 |

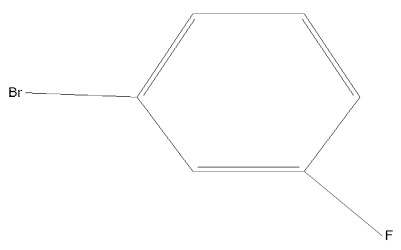


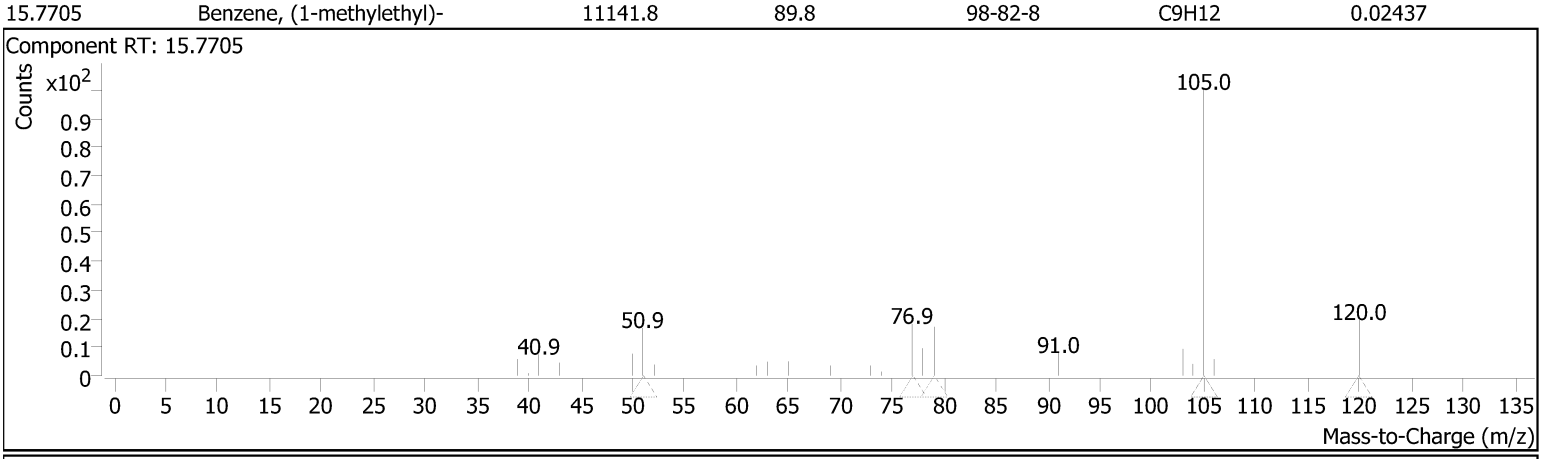



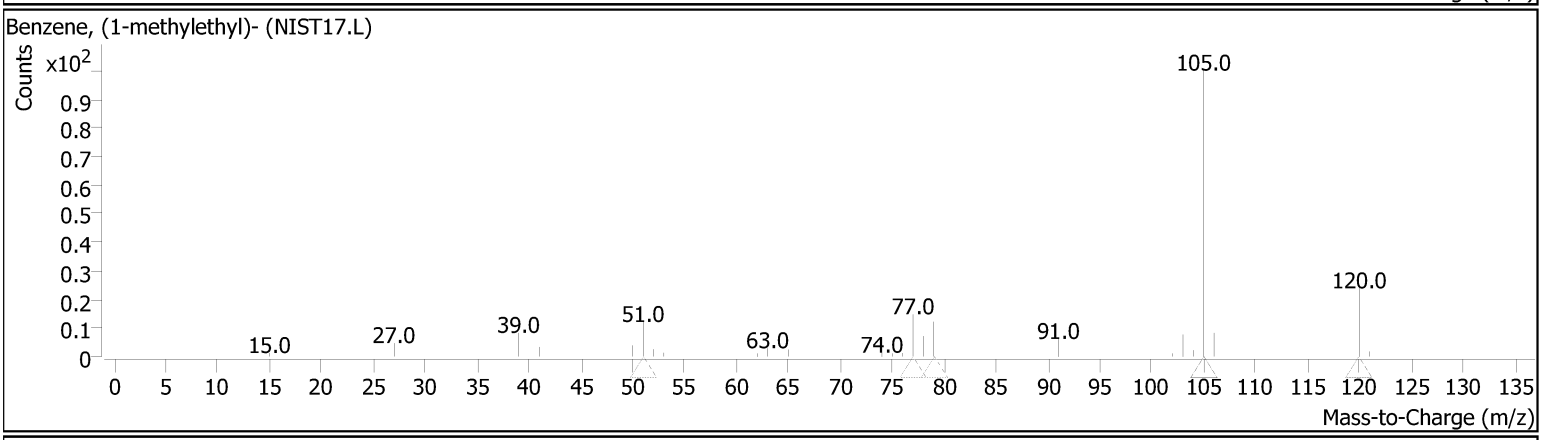



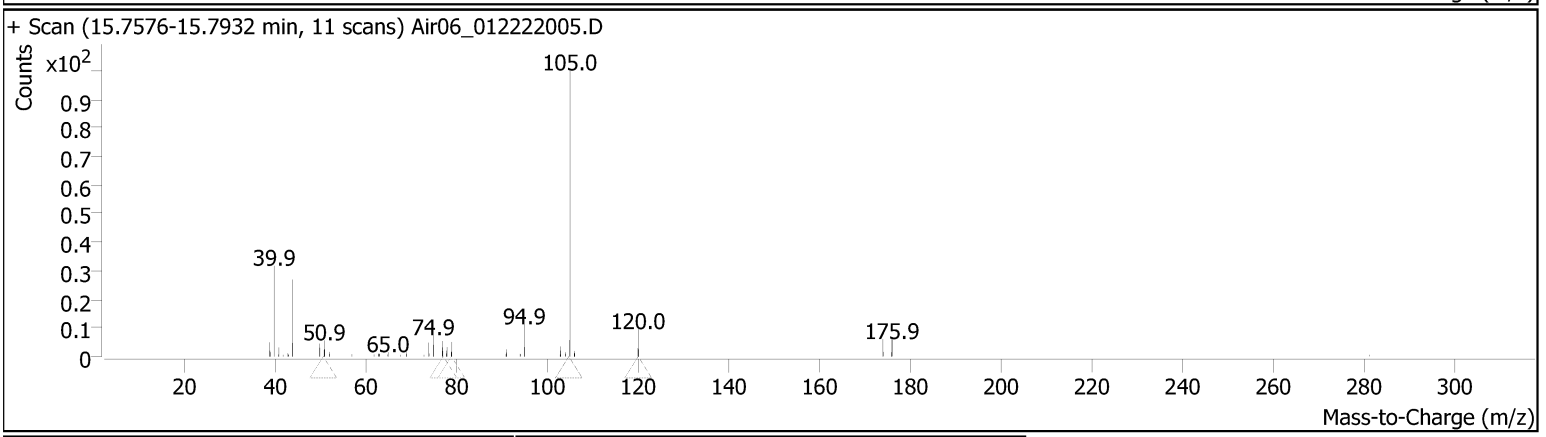



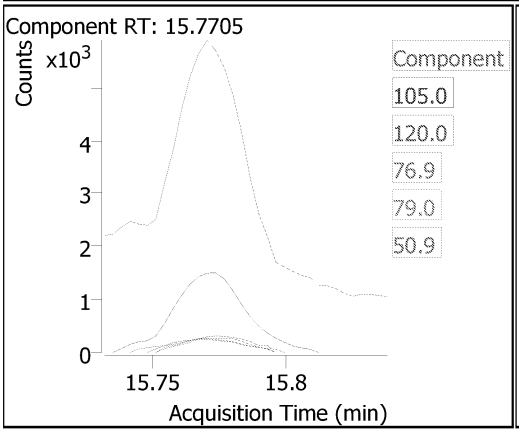



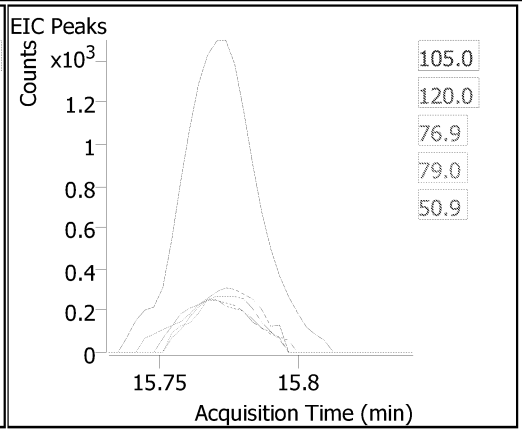
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 15.7705 | Benzene, (1-methylethyl)- | 11141.8 | 89.8 | 98-82-8 | C9H12 | 0.02437 |

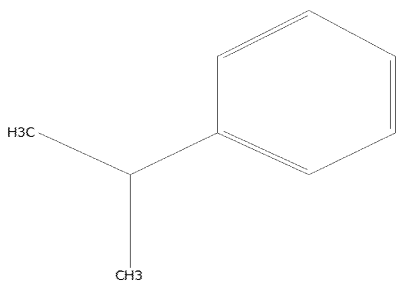


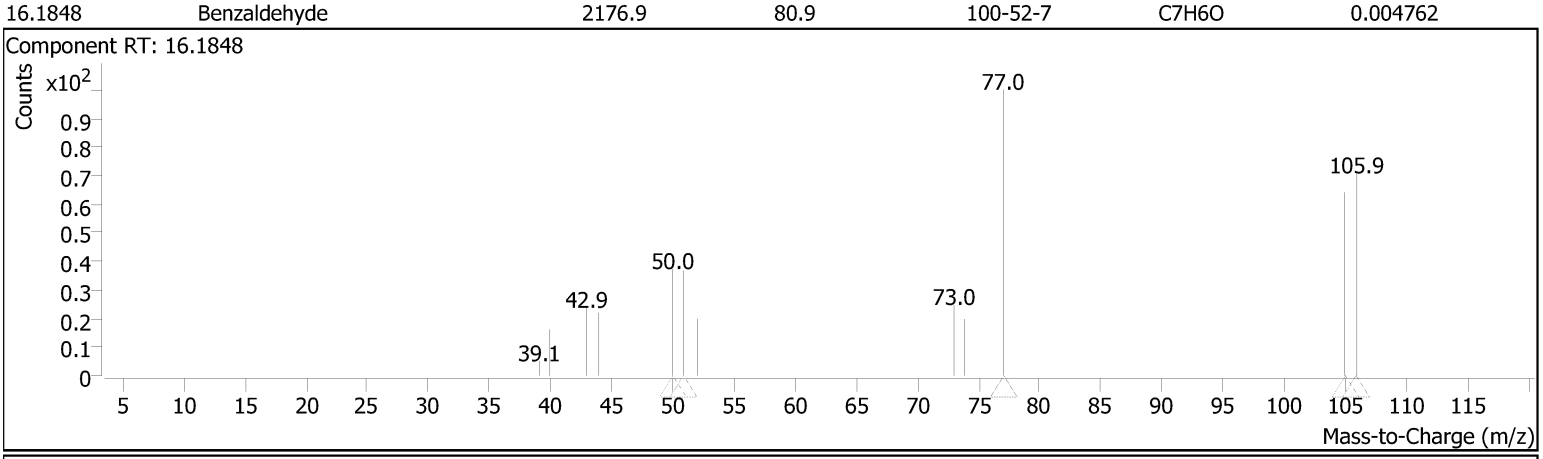



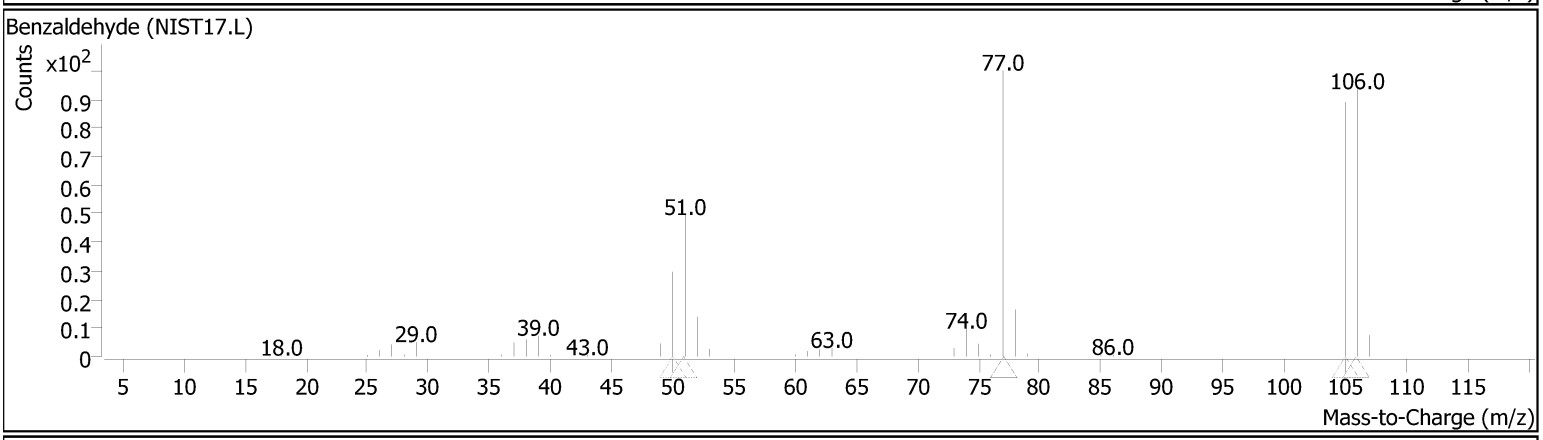



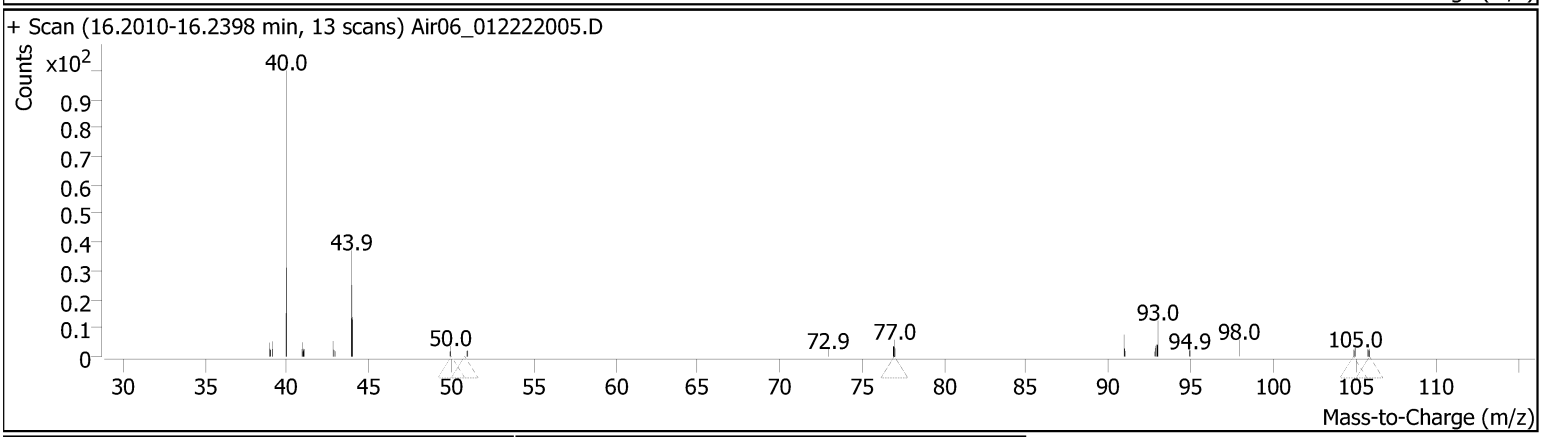



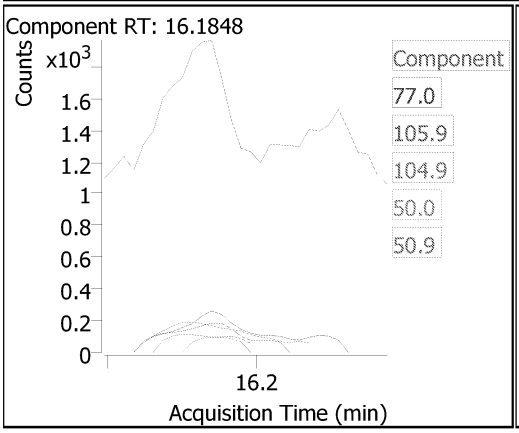



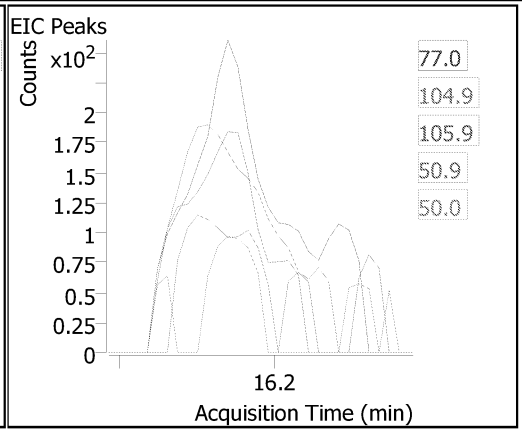
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.1848 | Benzaldehyde | 2176.9 | 80.9 | 100-52-7 | C7H6O | 0.004762 |

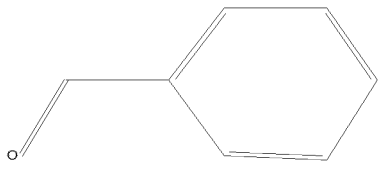


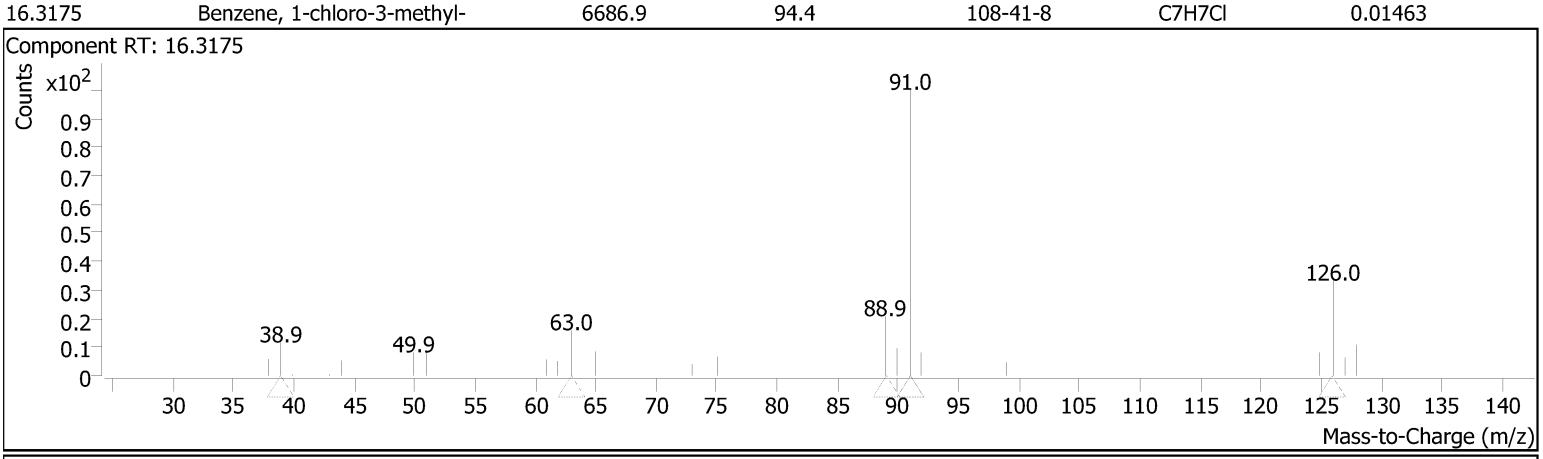



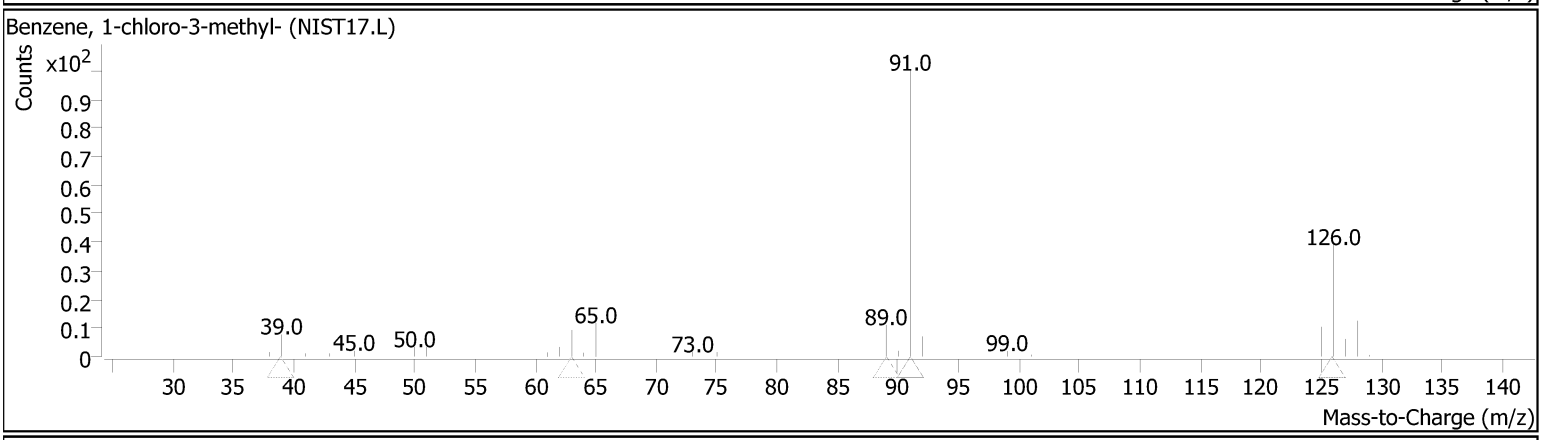



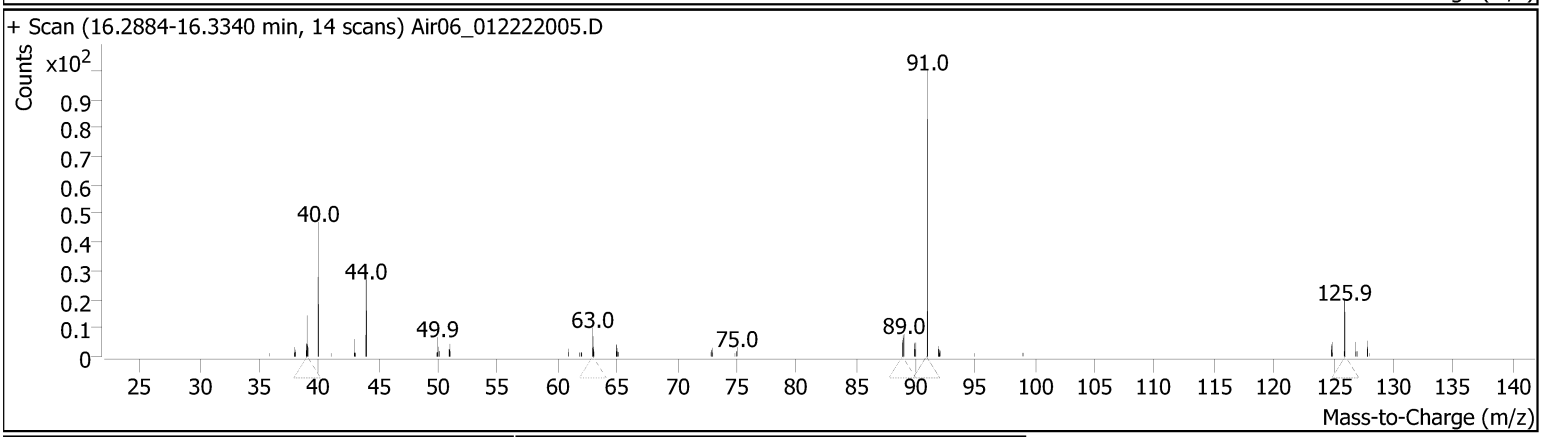



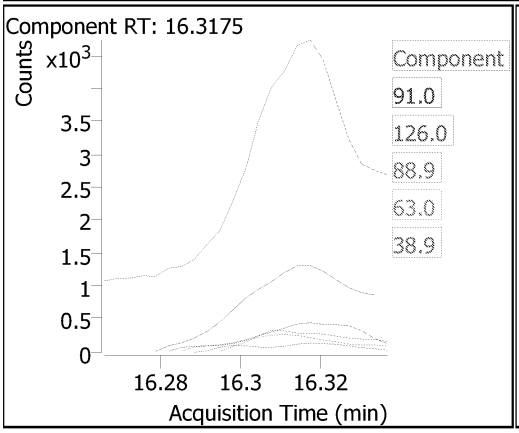



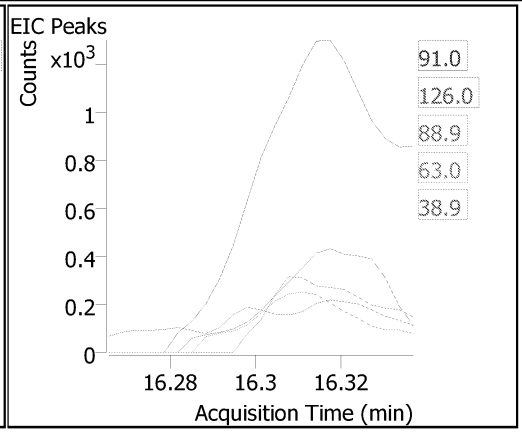
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.3175 | Benzene, 1-chloro-3-methyl- | 6686.9 | 94.4 | 108-41-8 | C7H7Cl | 0.01463 |

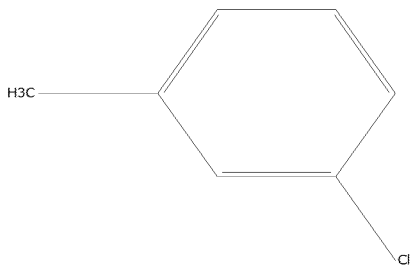


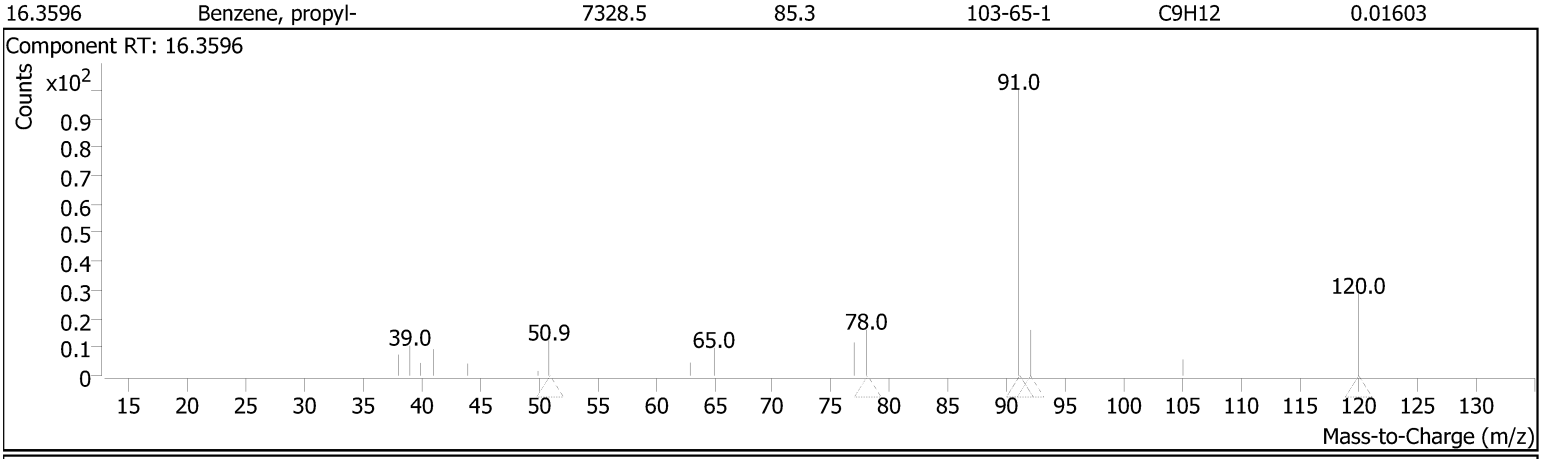



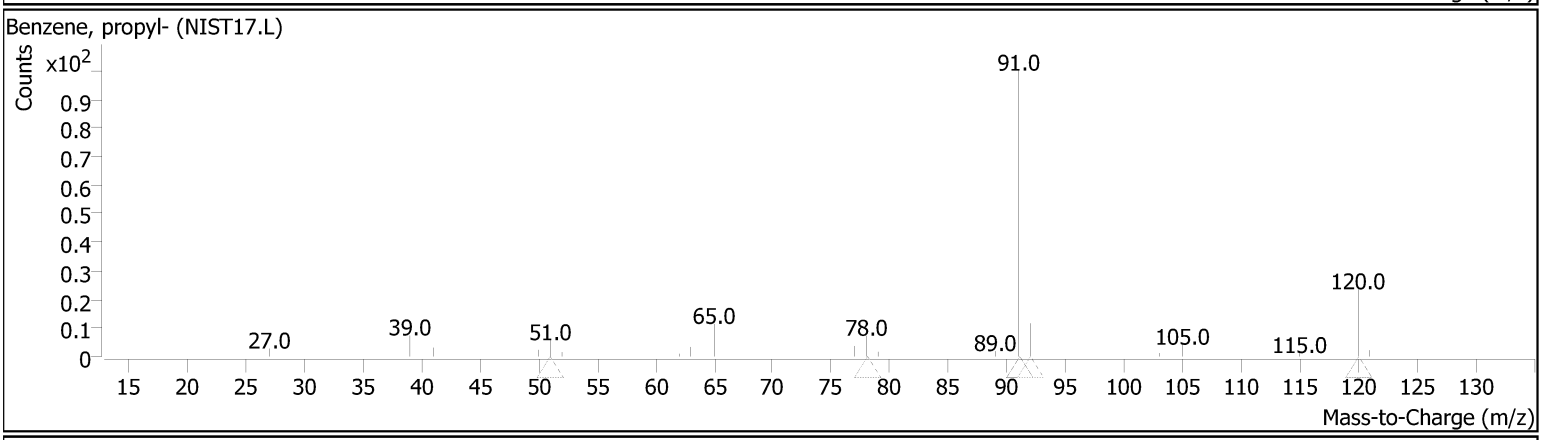



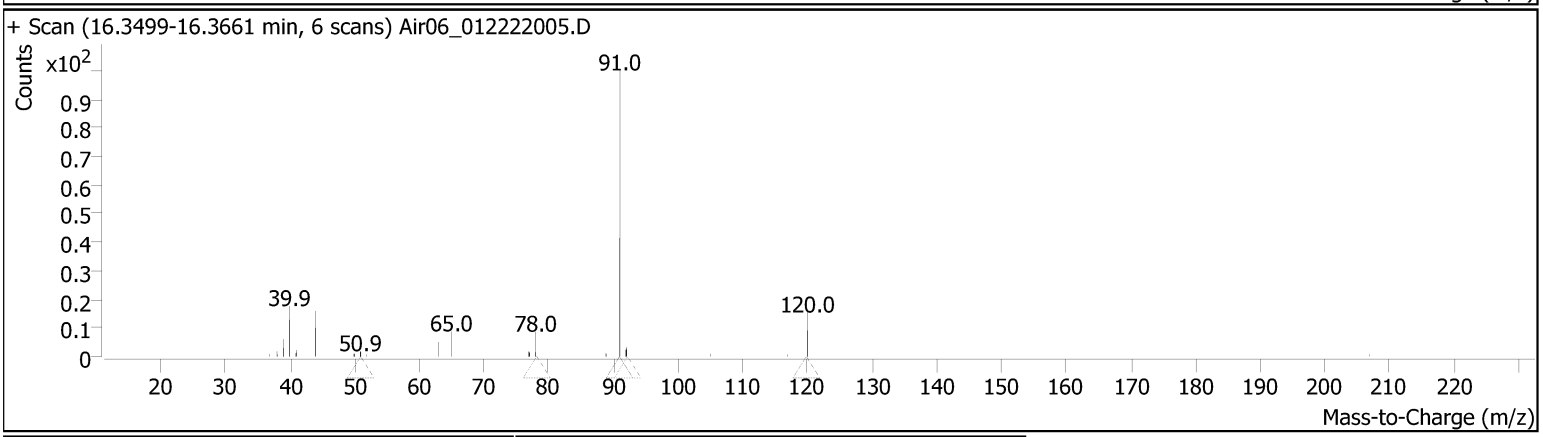



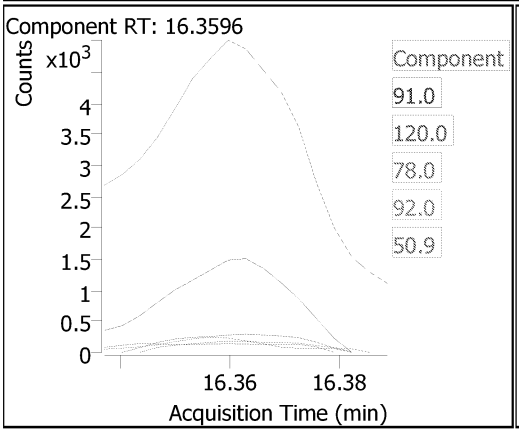



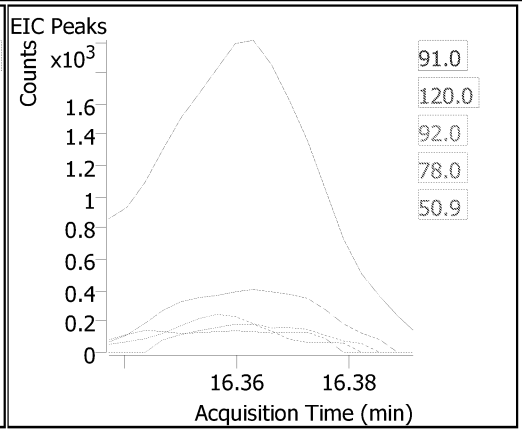
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.3596 | Benzene, propyl- | 7328.5 | 85.3 | 103-65-1 | C9H12 | 0.01603 |

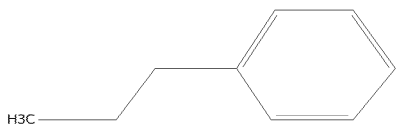


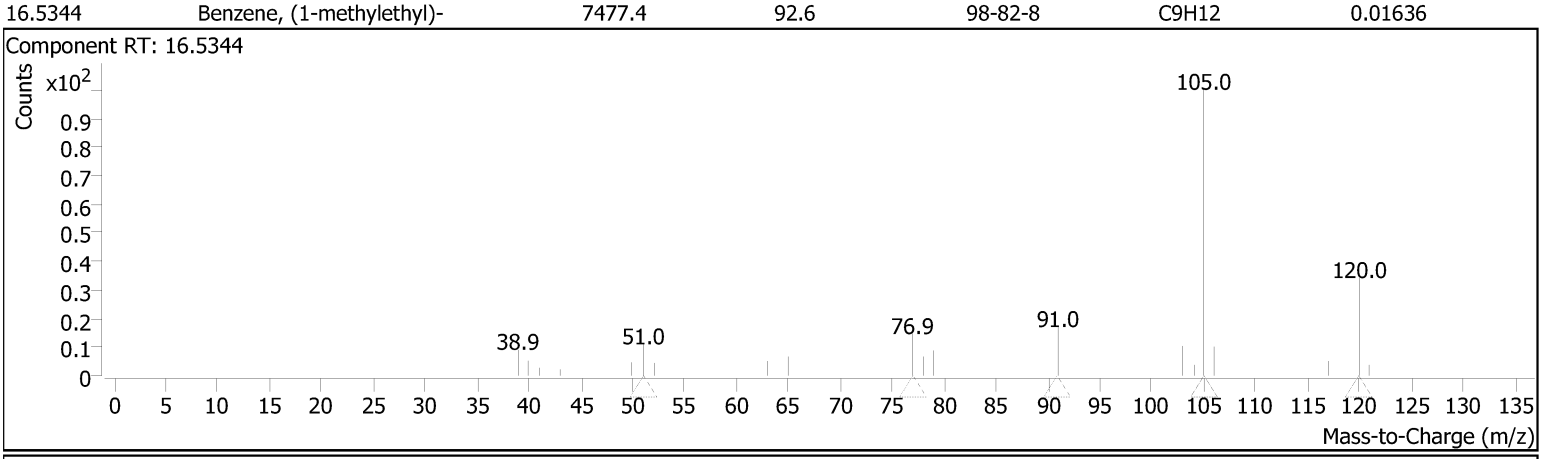



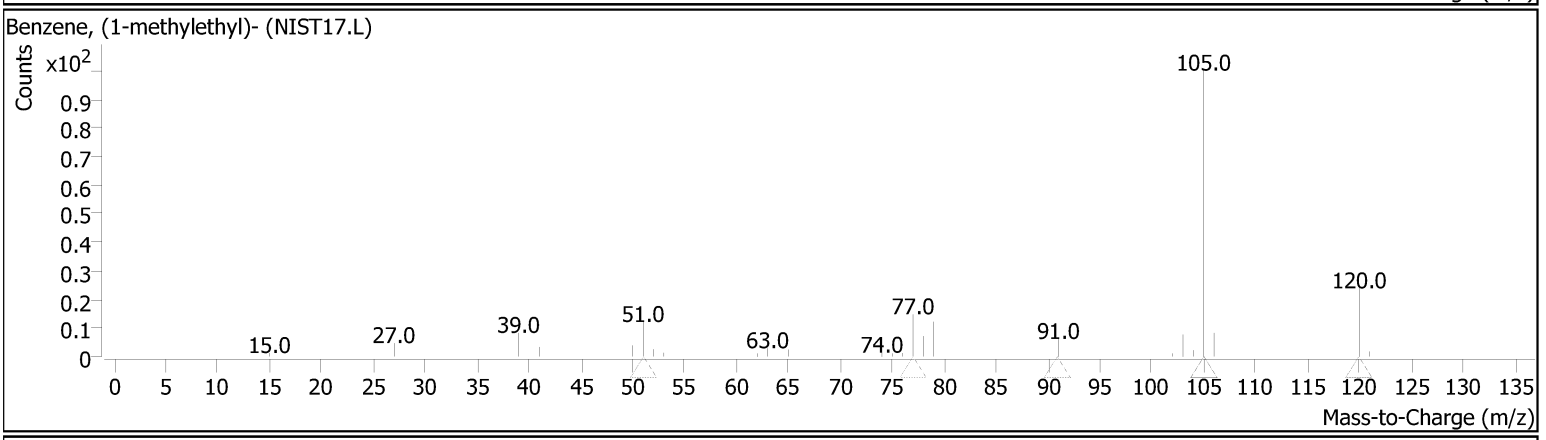



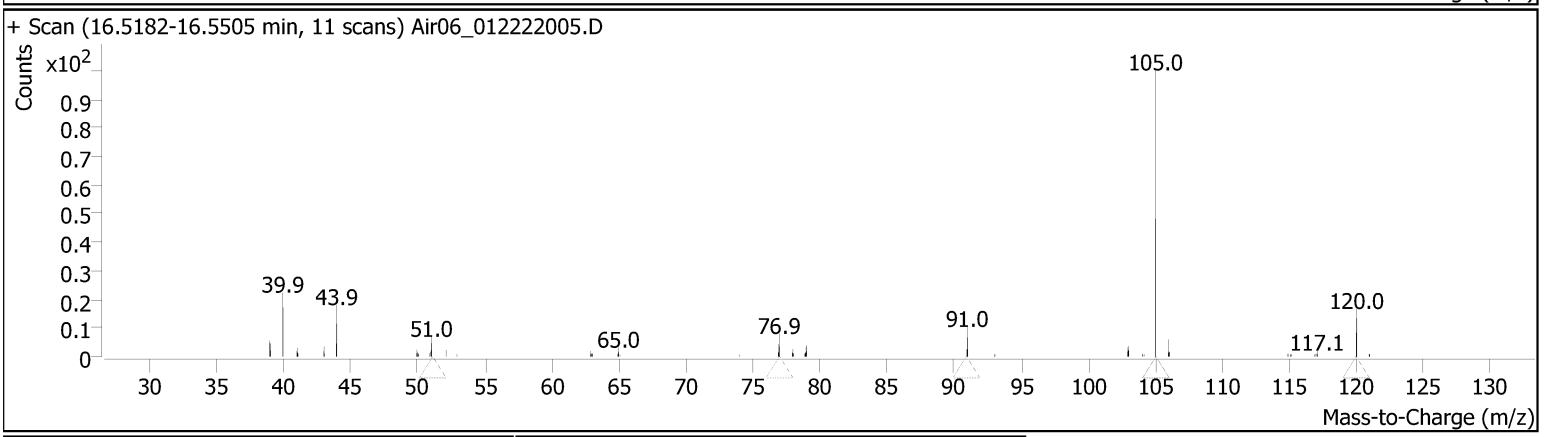



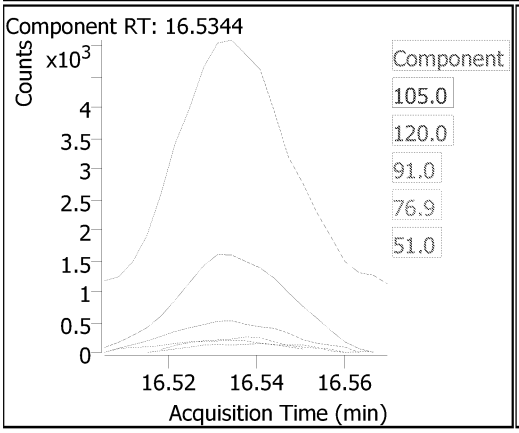



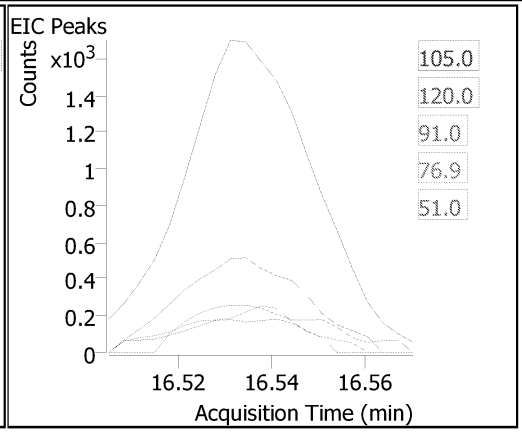
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.5344 | Benzene, (1-methylethyl)- | 7477.4 | 92.6 | 98-82-8 | C9H12 | 0.01636 |

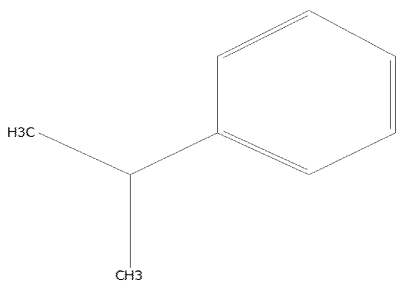


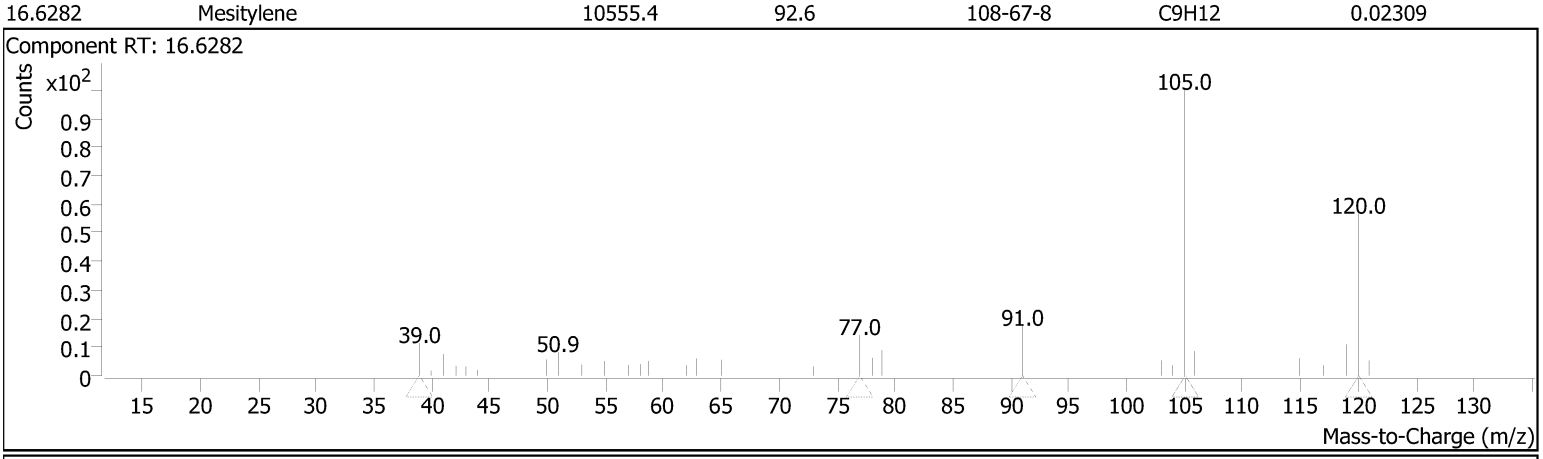



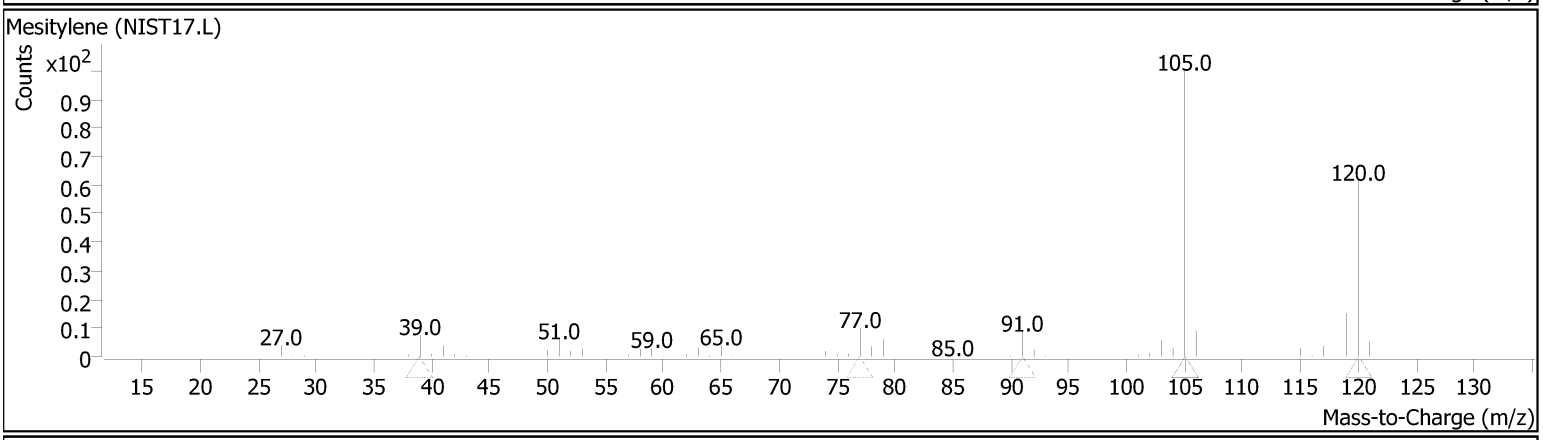



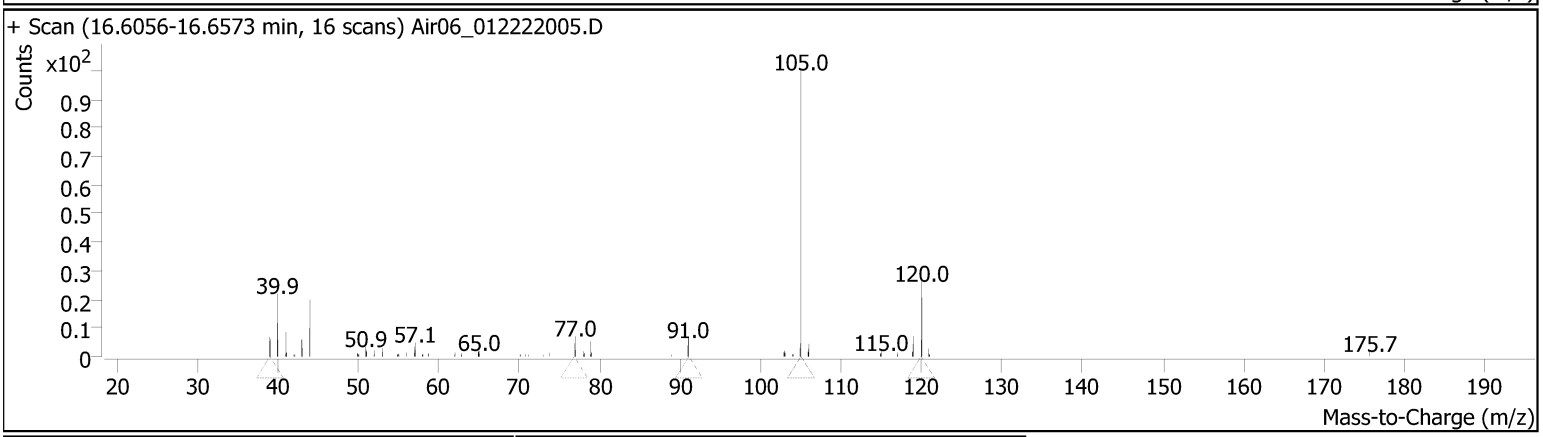



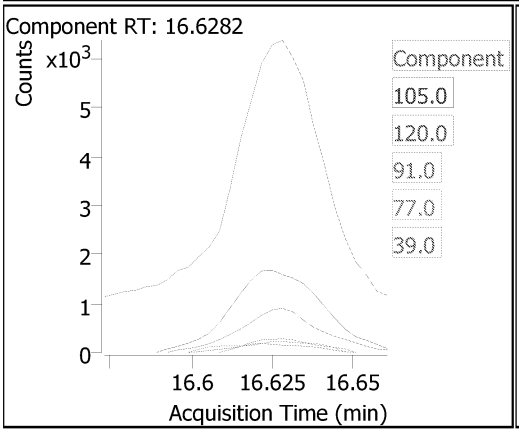



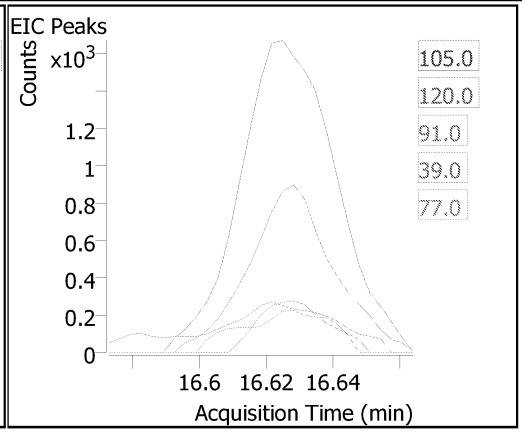
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.6282 | Mesitylene | 10555.4 | 92.6 | 108-67-8 | C9H12 | 0.02309 |

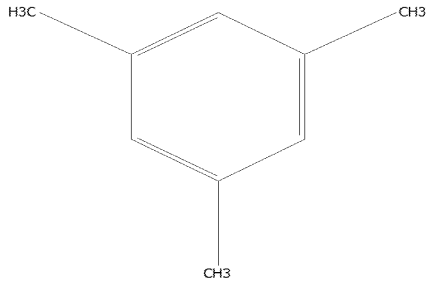


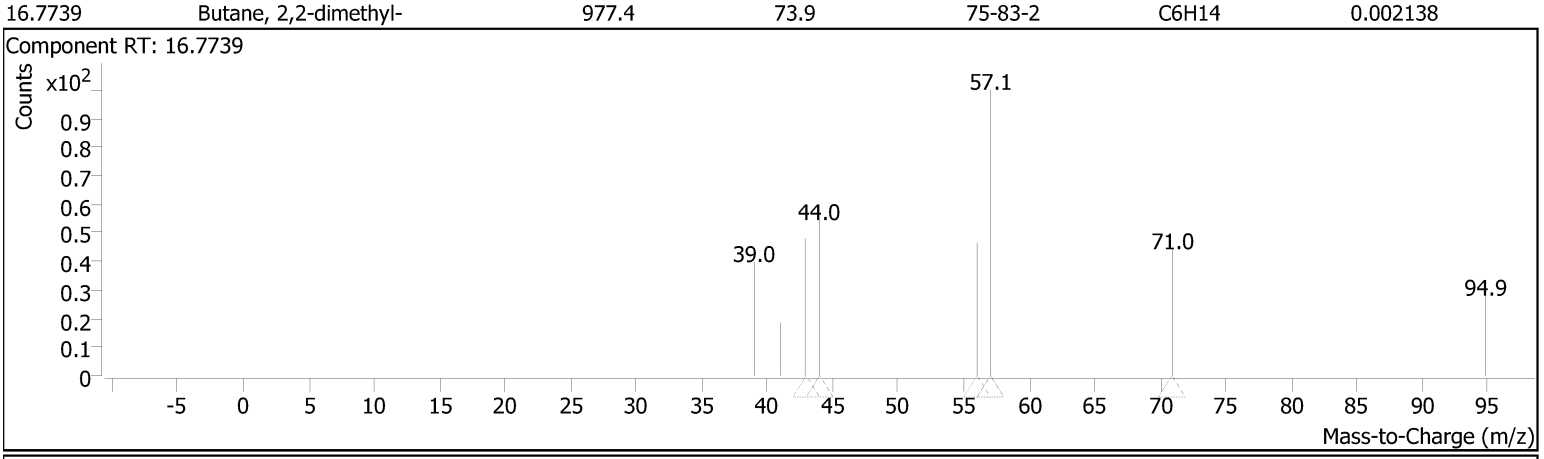



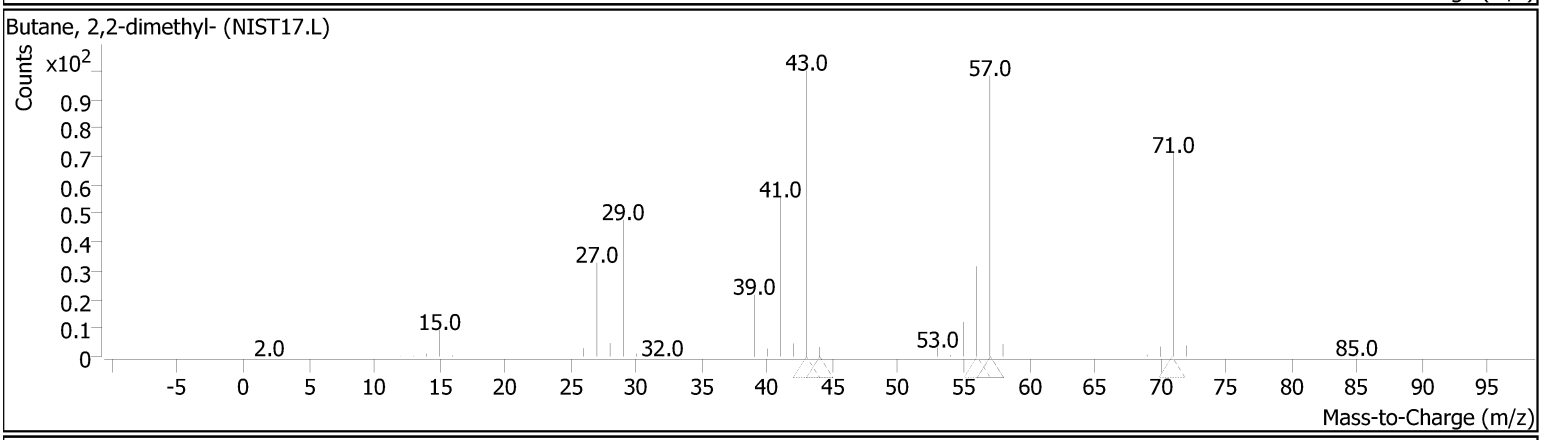



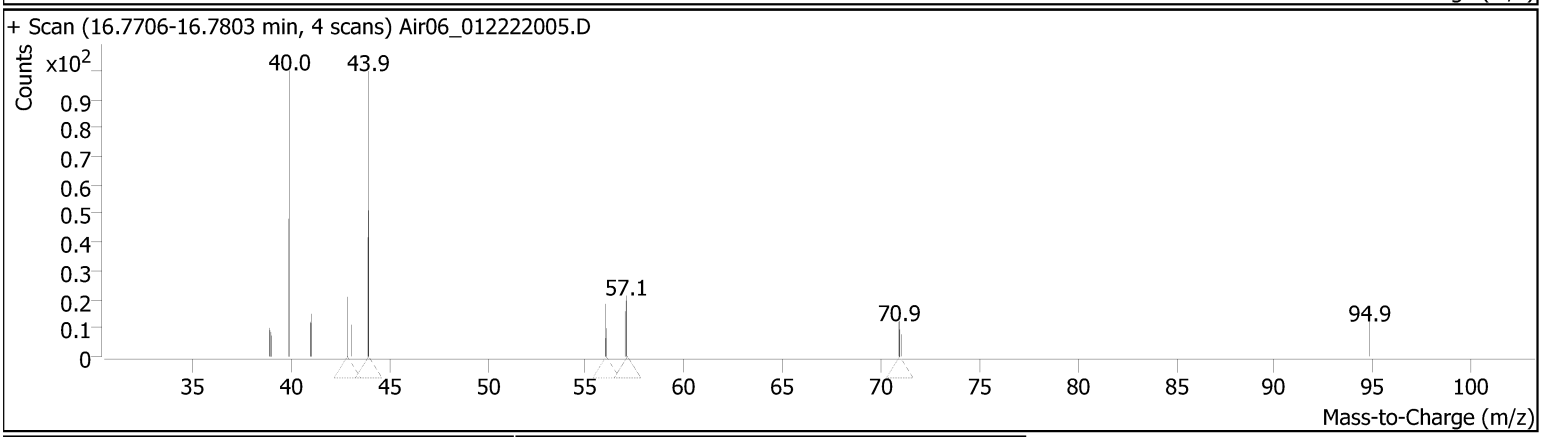
# Library Search Results - NonTarget Hits with Details

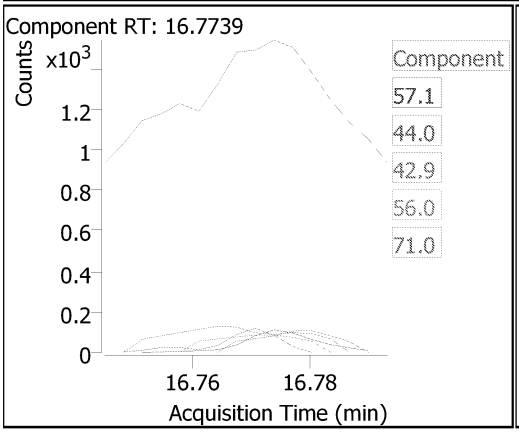
Agilent Technologies

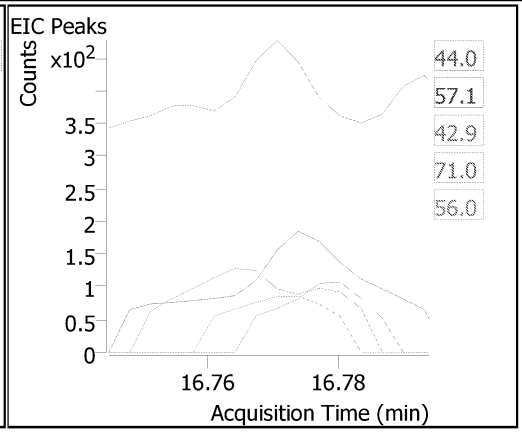
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 16.7739 | Butane, 2,2-dimethyl- | 977.4 | 73.9 | 75-83-2 | C6H14 | 0.002138 |

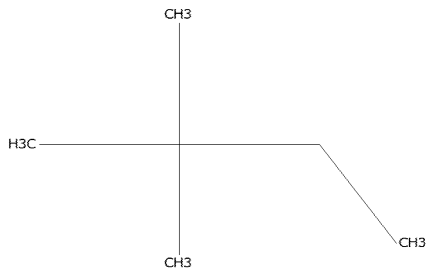


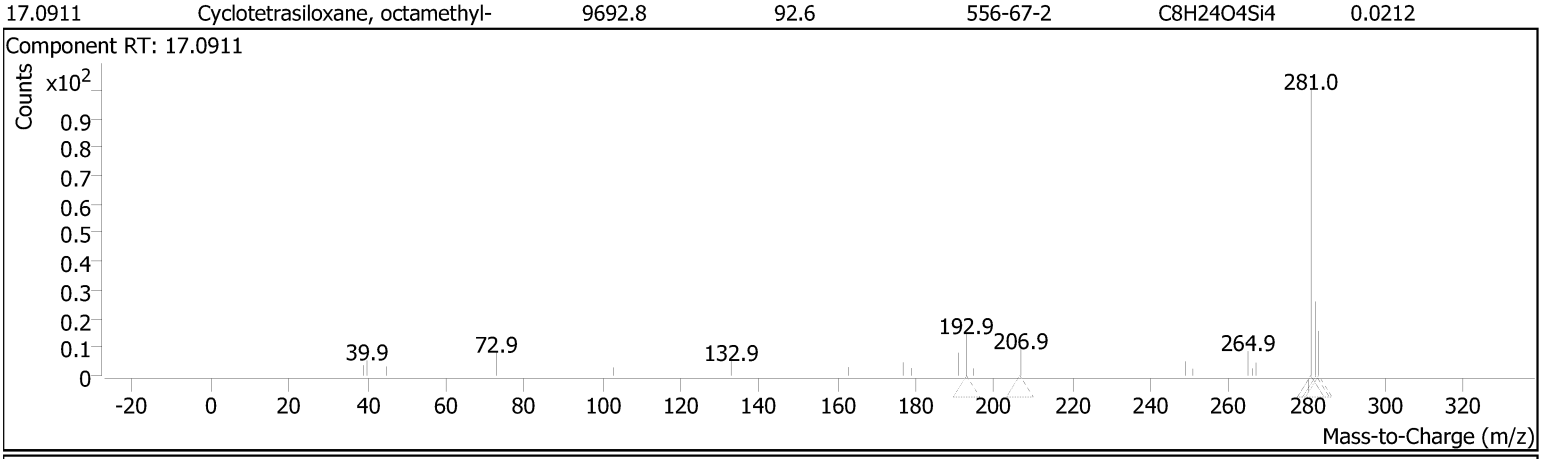



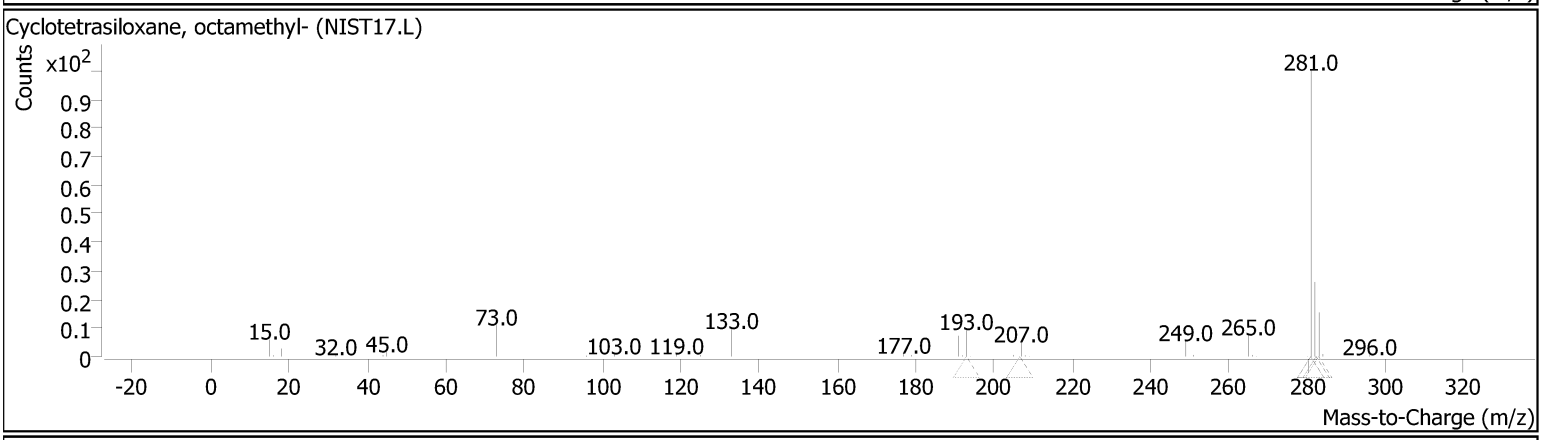



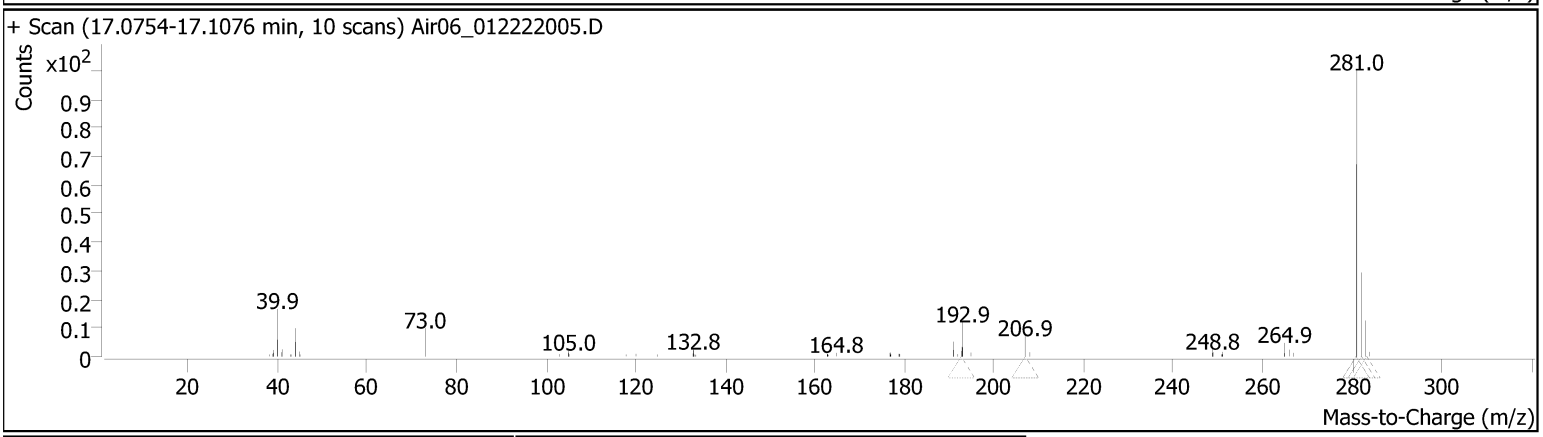



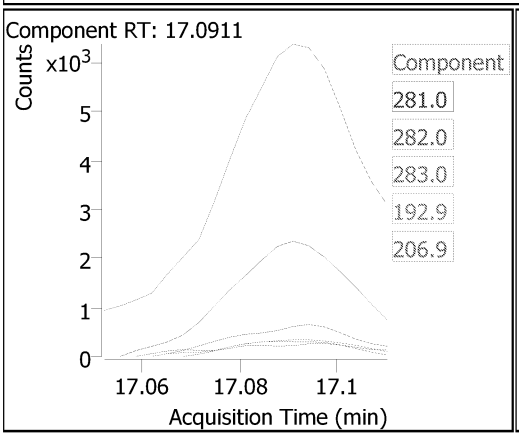



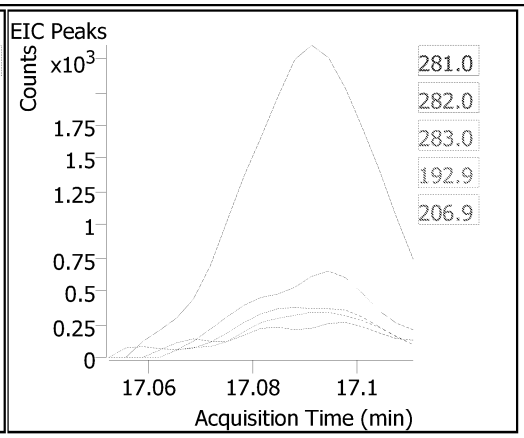
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.0911 | Cyclotetrasiloxane, octamethyl- | 9692.8 | 92.6 | 556-67-2 | C8H24O4Si4 | 0.0212 |

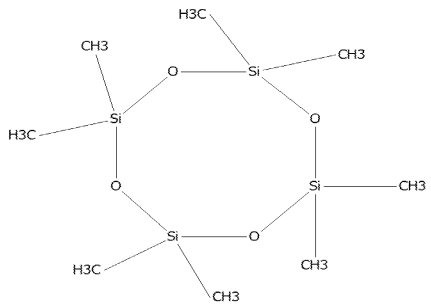


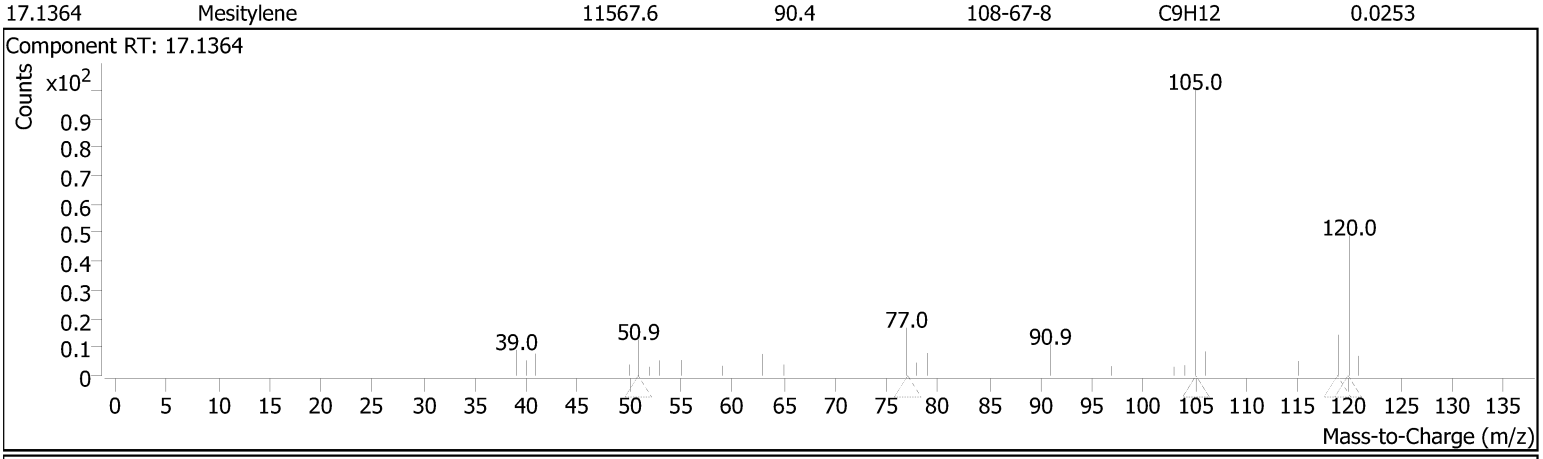



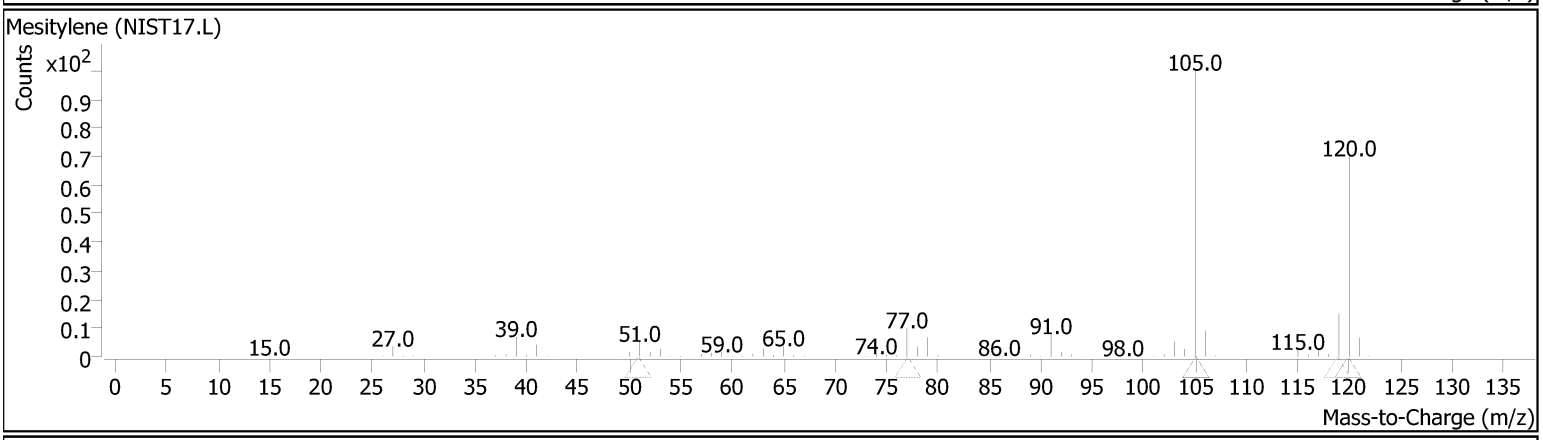



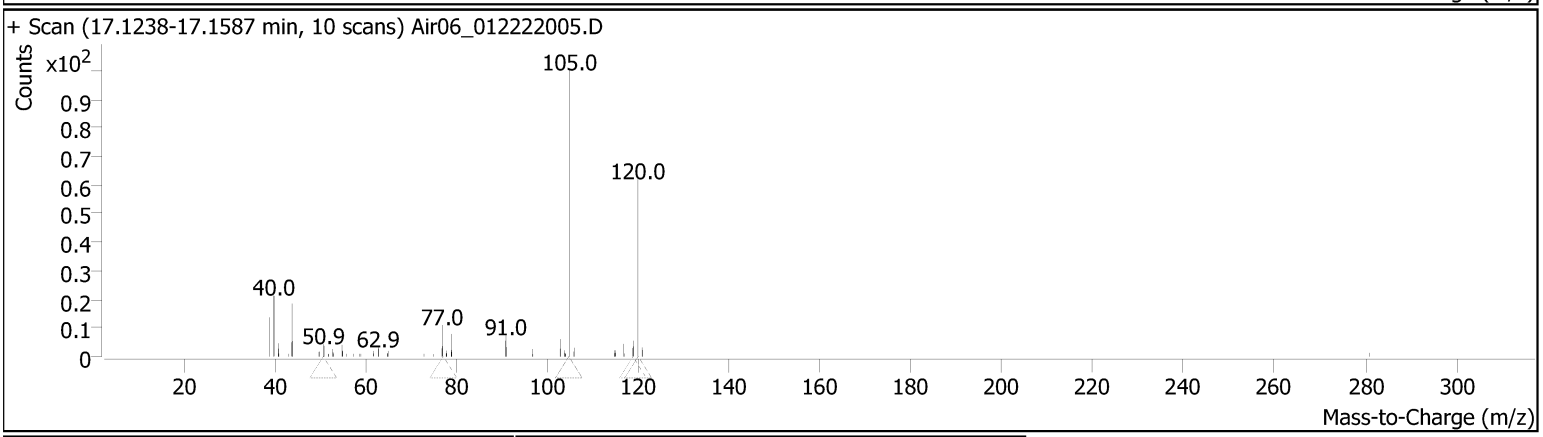



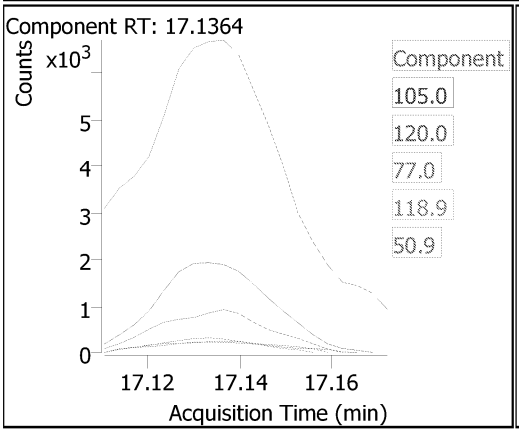



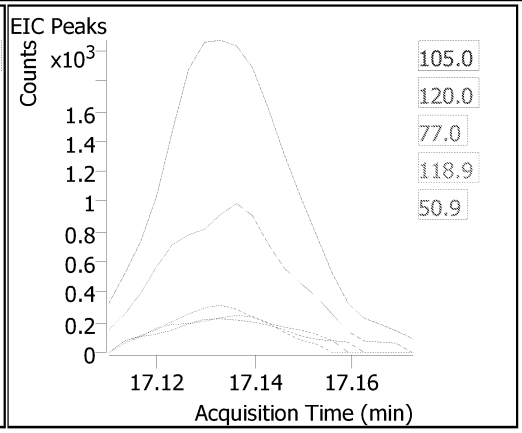
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.1364 | Mesitylene | 11567.6 | 90.4 | 108-67-8 | C9H12 | 0.0253 |

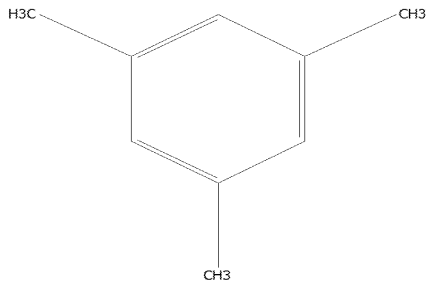


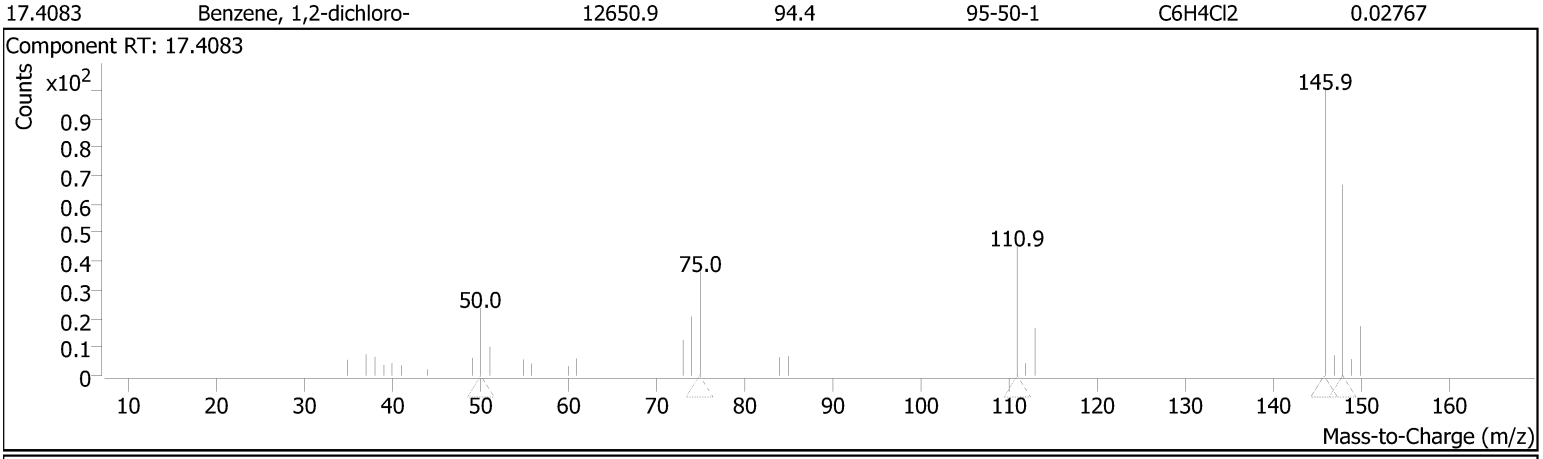



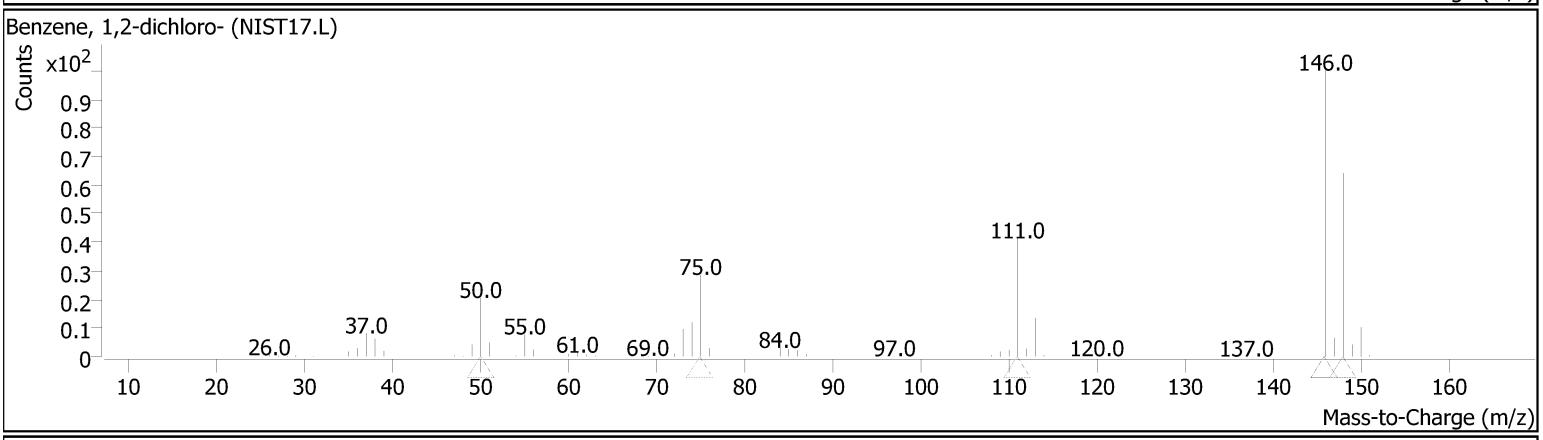



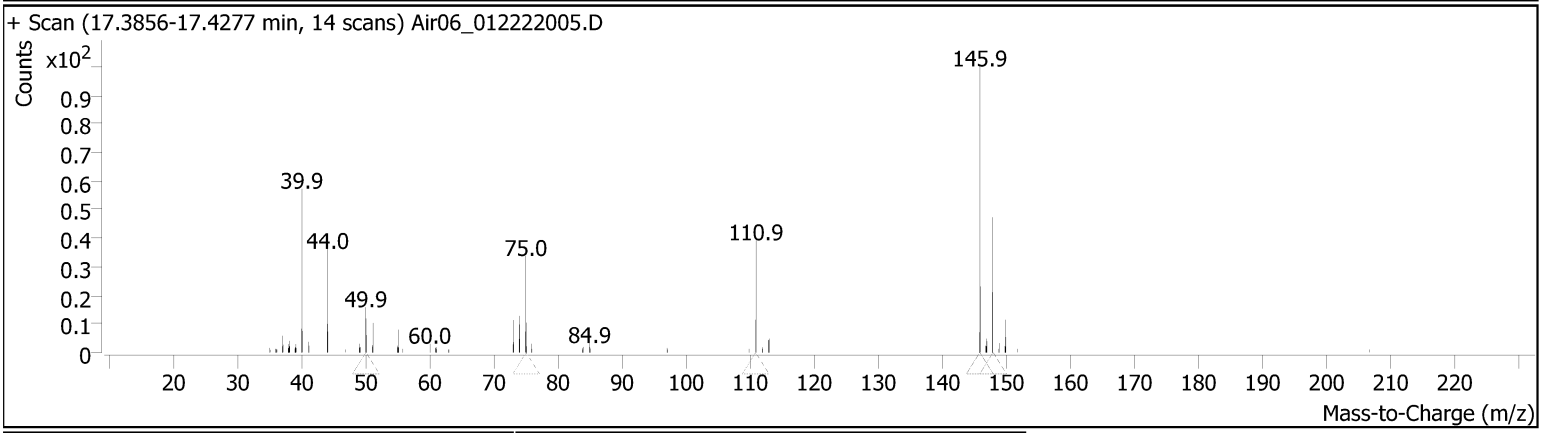



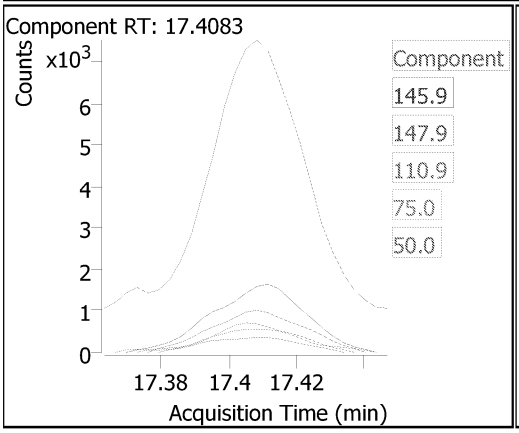



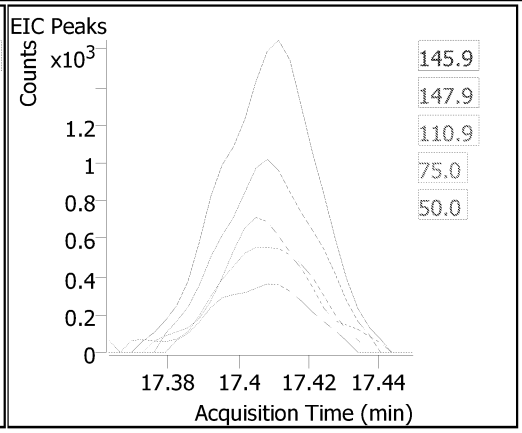
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.4083 | Benzene, 1,2-dichloro- | 12650.9 | 94.4 | 95-50-1 | C6H4Cl2 | 0.02767 |

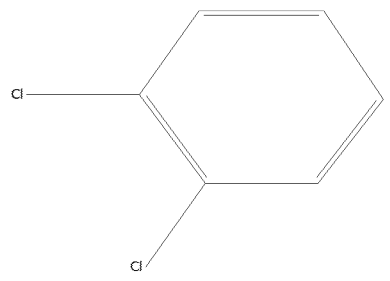


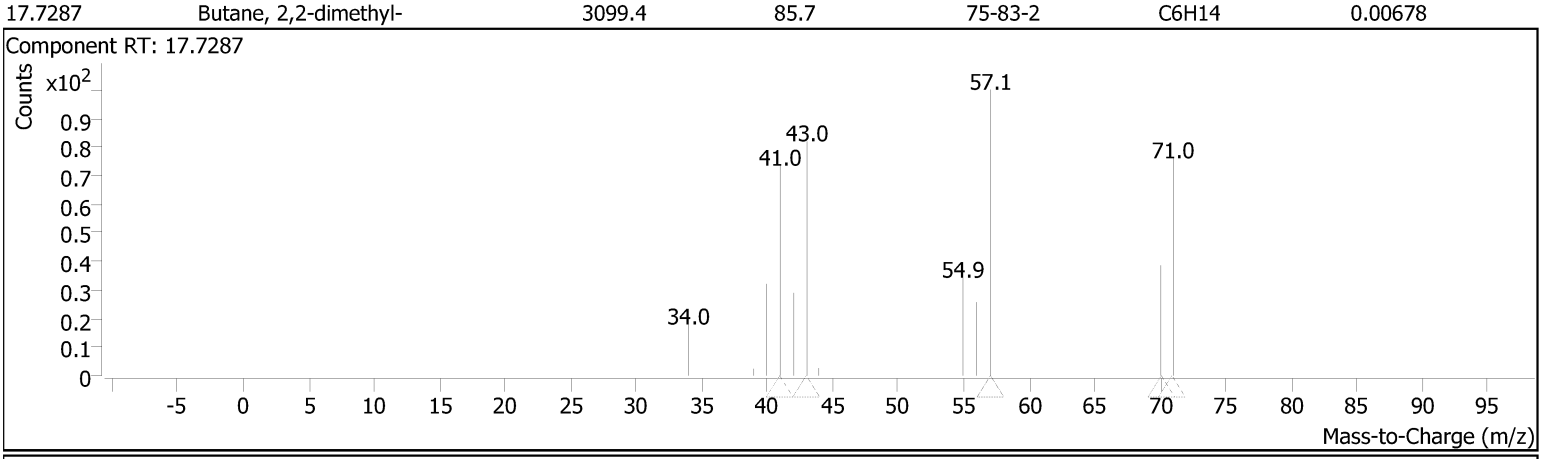



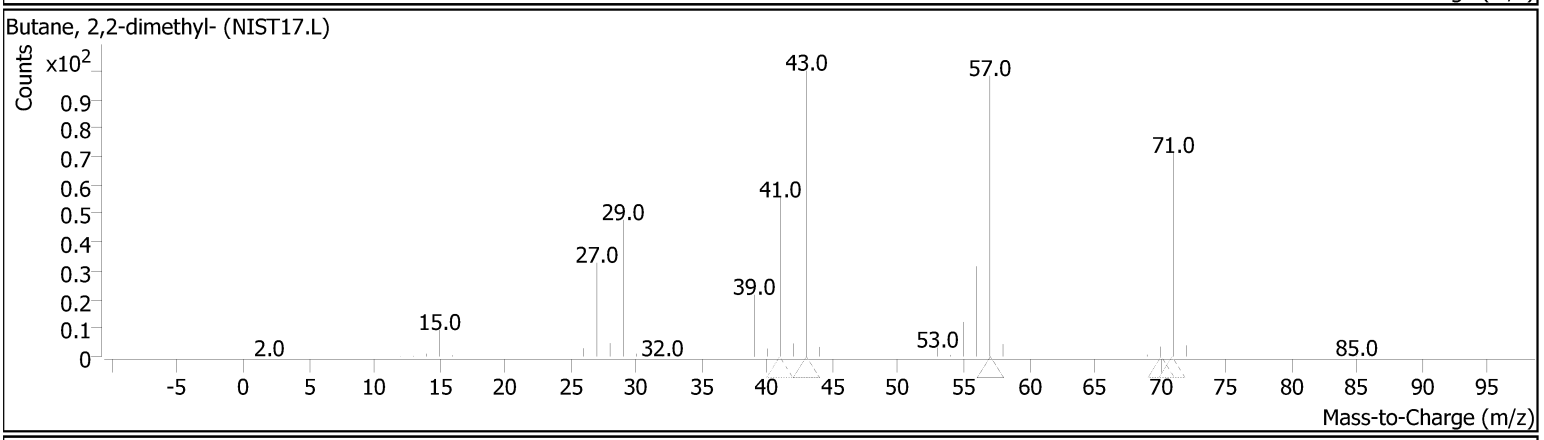



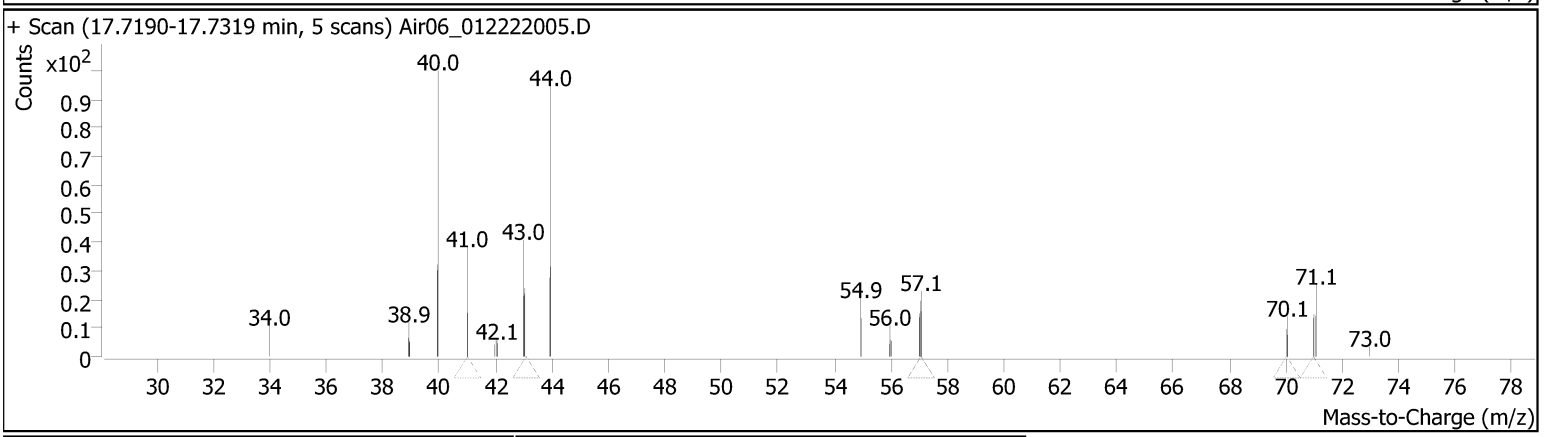



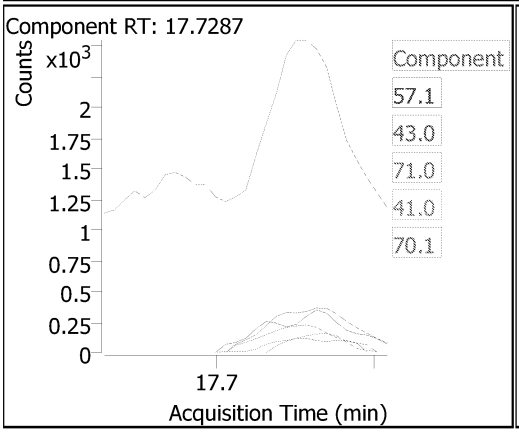



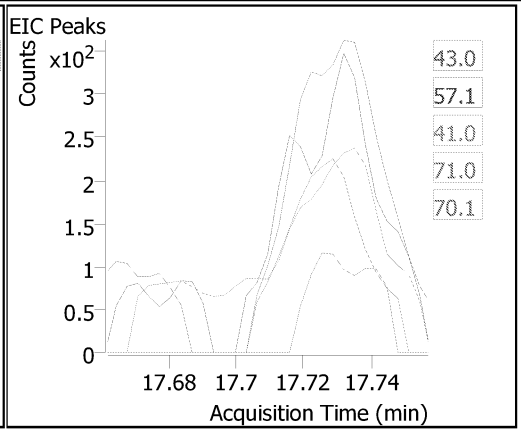
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.7287 | Butane, 2,2-dimethyl- | 3099.4 | 85.7 | 75-83-2 | C6H14 | 0.00678 |

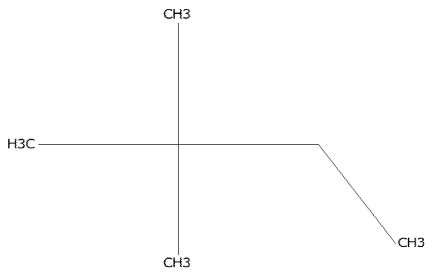


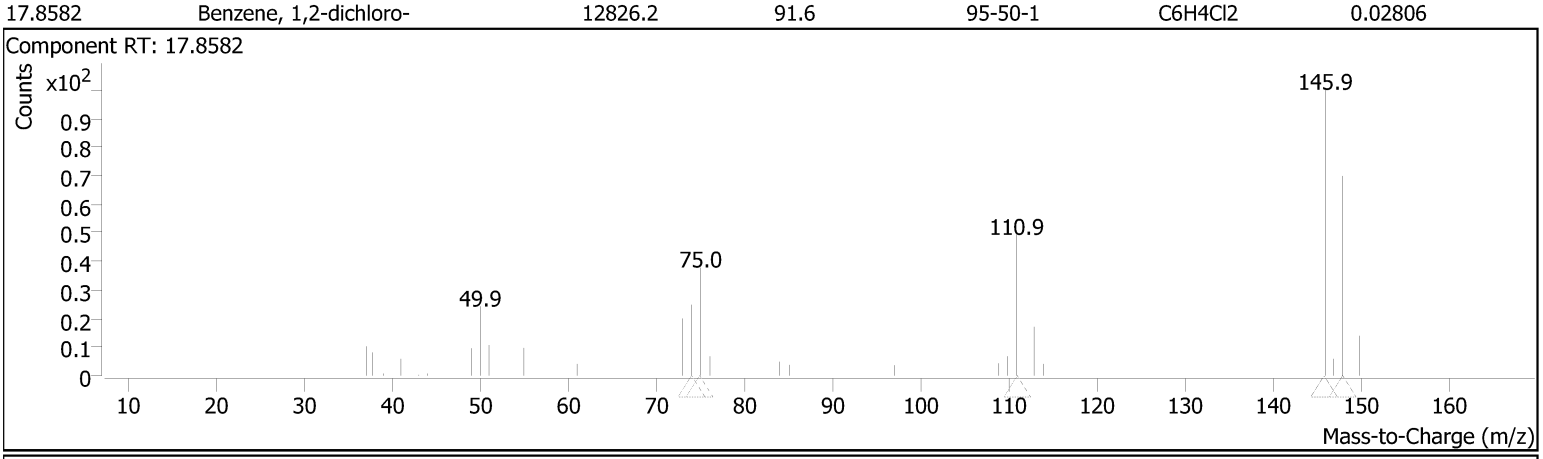



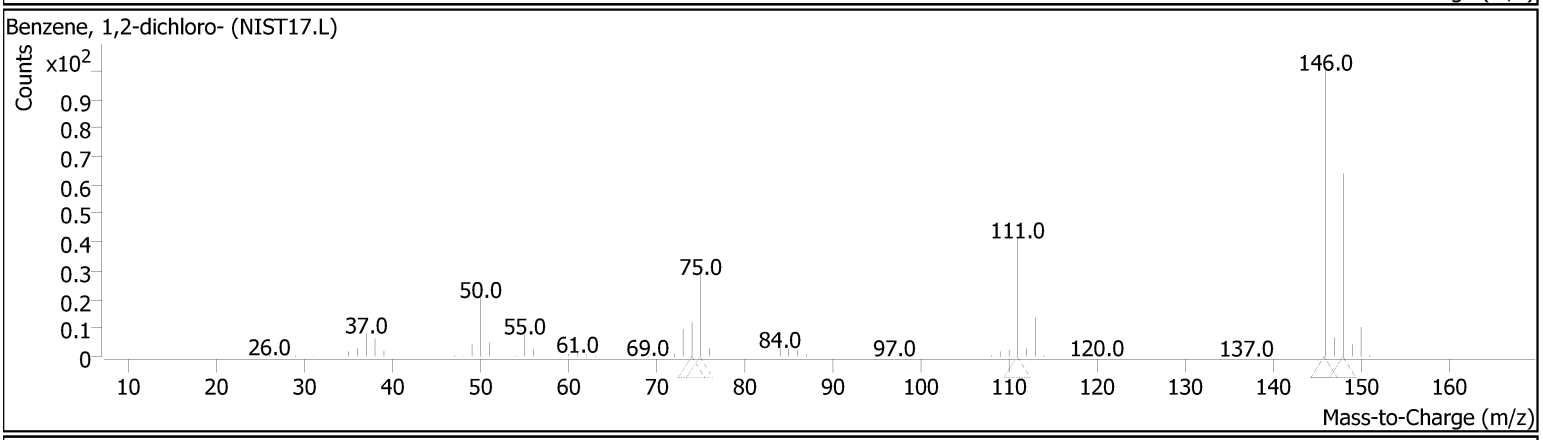



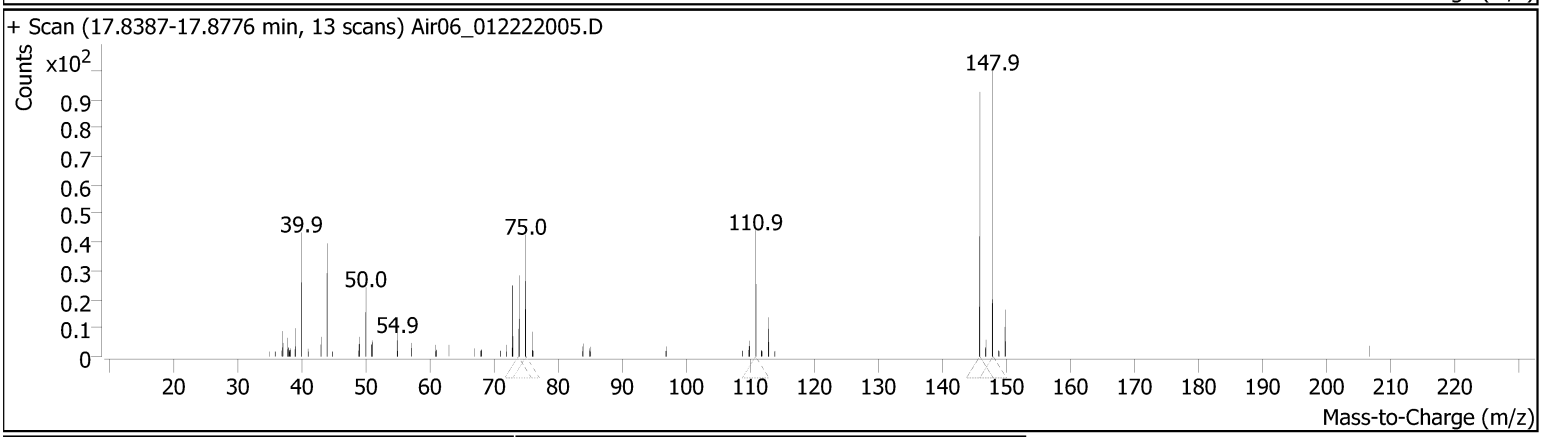



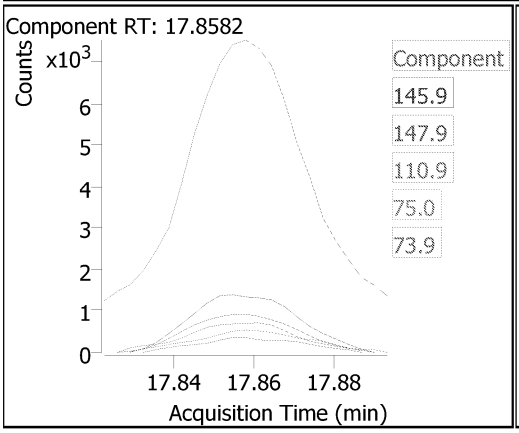



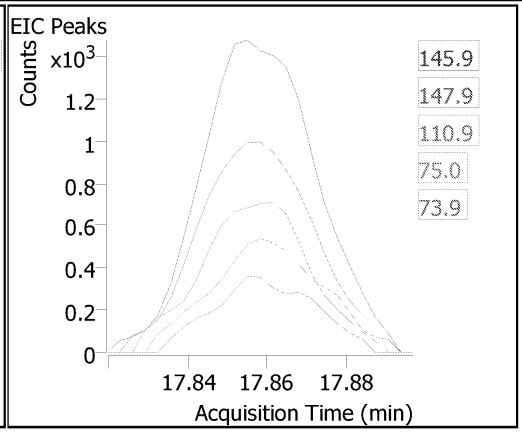
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 17.8582 | Benzene, 1,2-dichloro- | 12826.2 | 91.6 | 95-50-1 | C6H4Cl2 | 0.02806 |

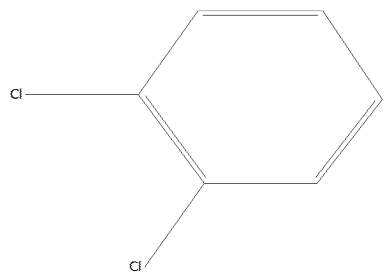


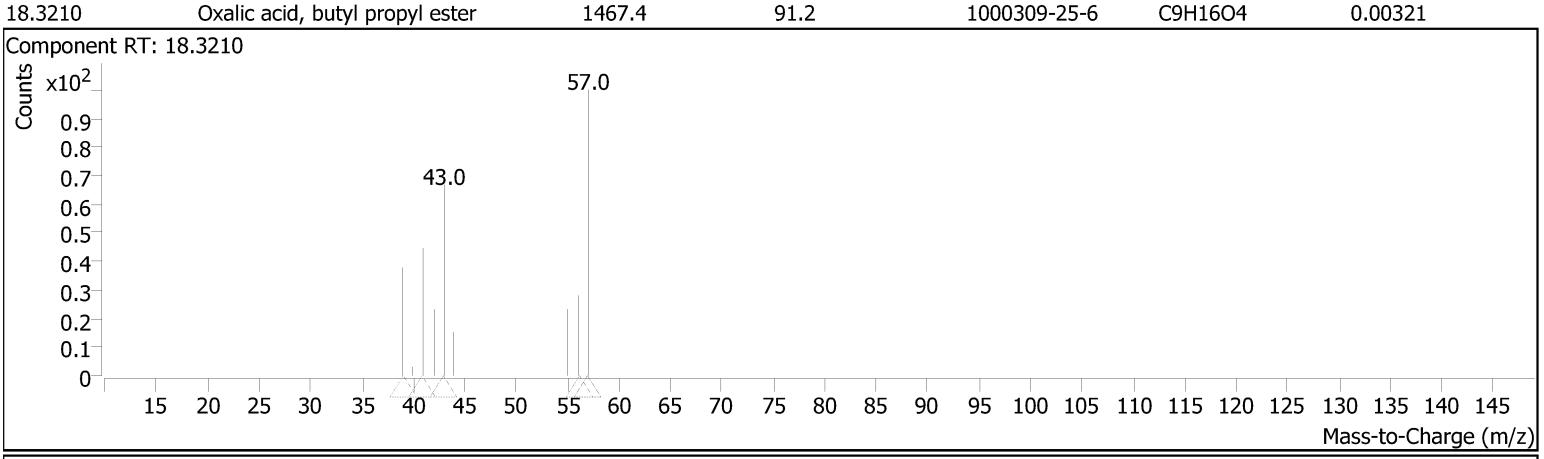



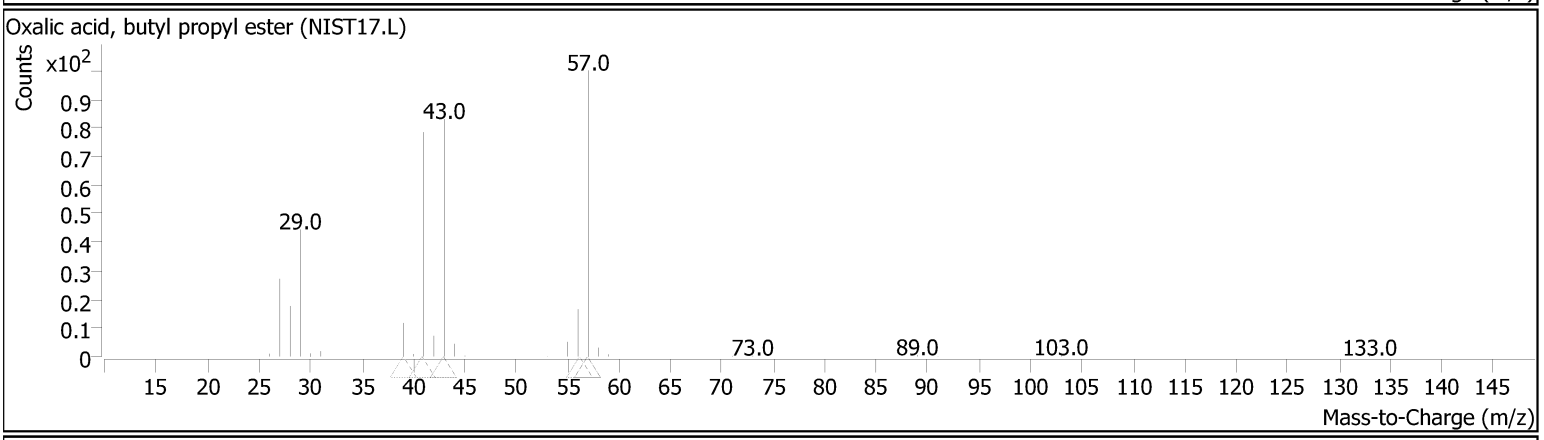



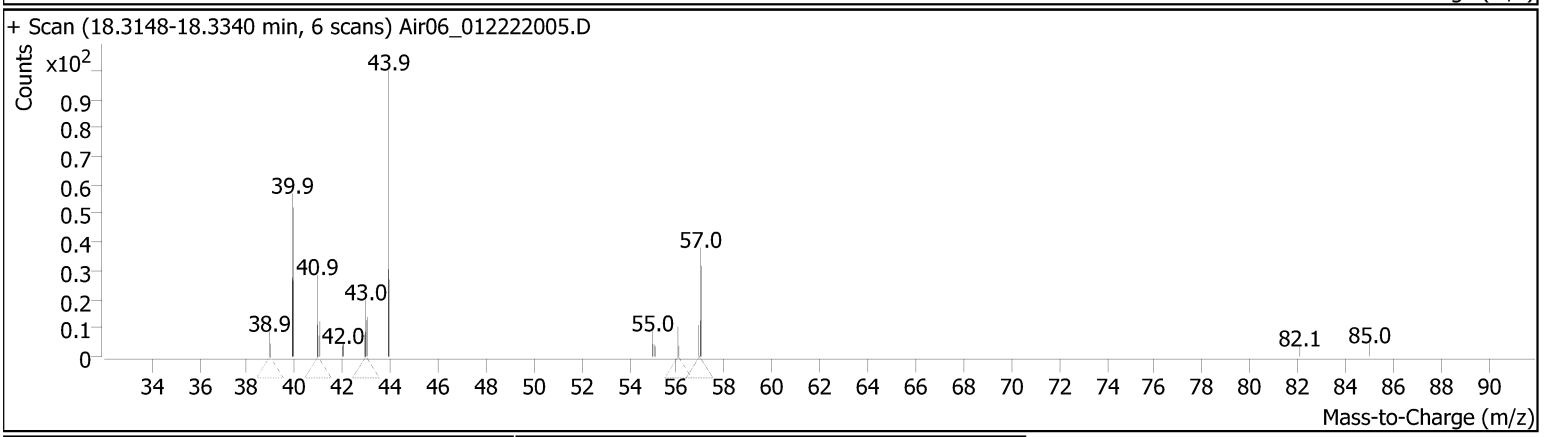



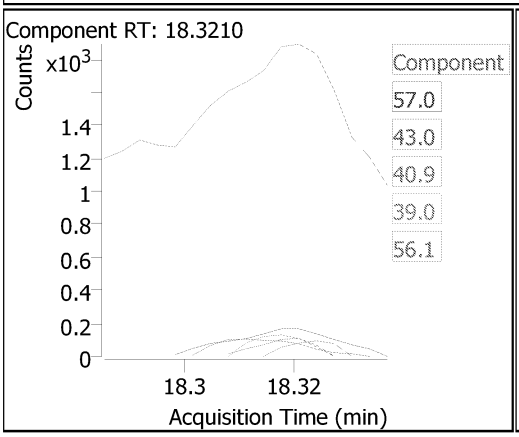



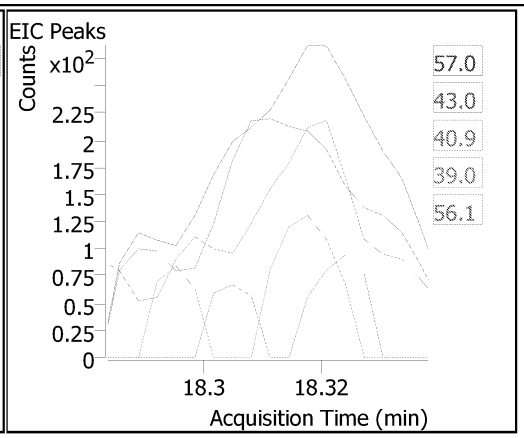
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3210 | Oxalic acid, butyl propyl ester | 1467.4 | 91.2 | 1000309-25-6 | C9H16O4 | 0.00321 |

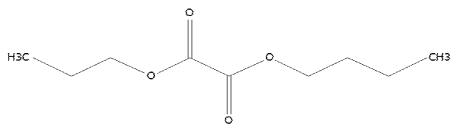


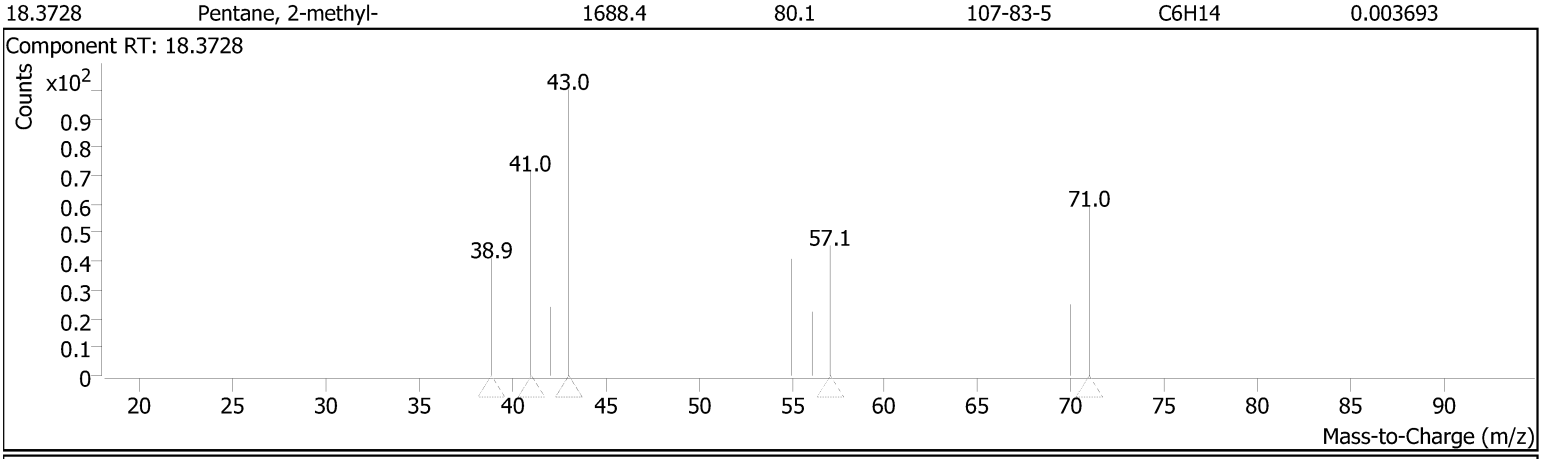



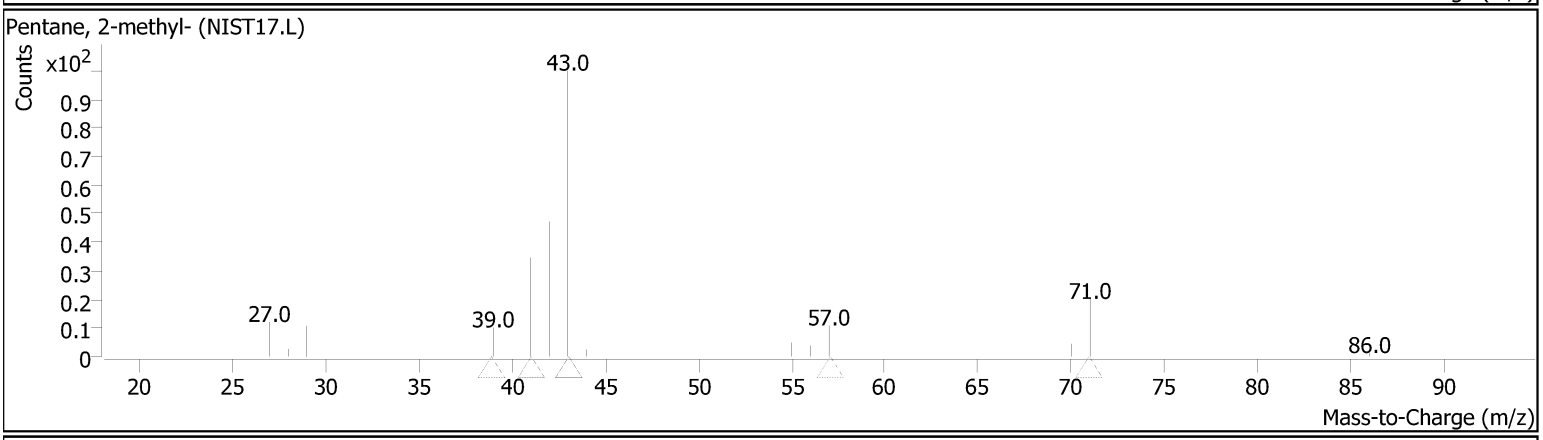



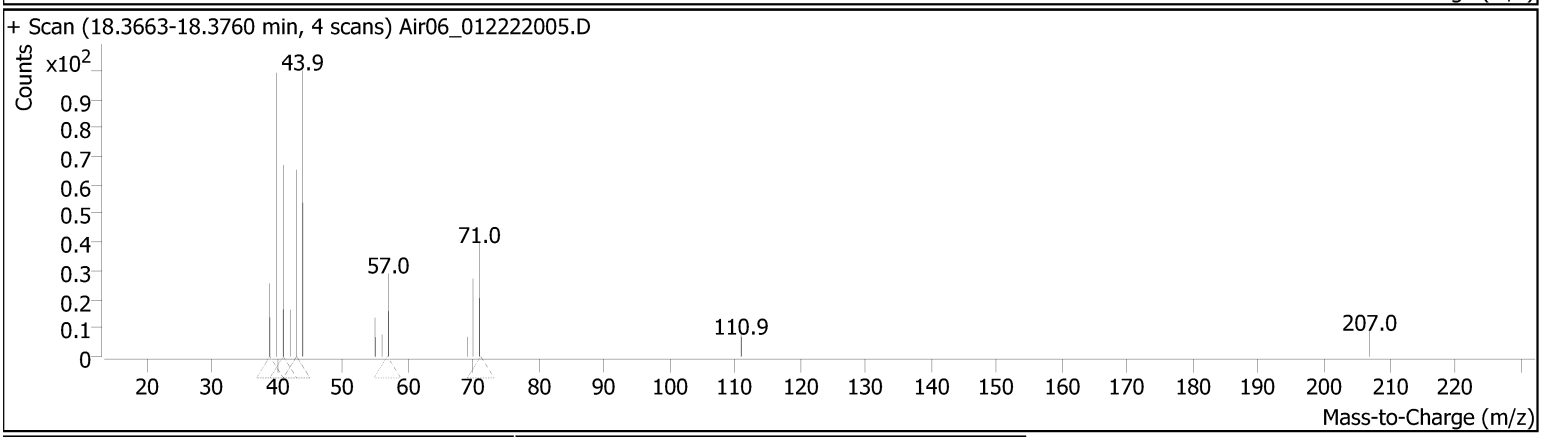



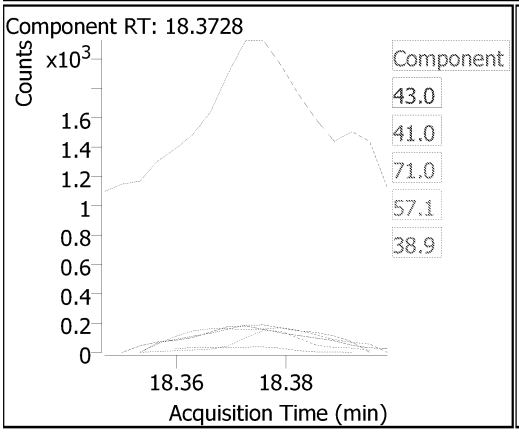



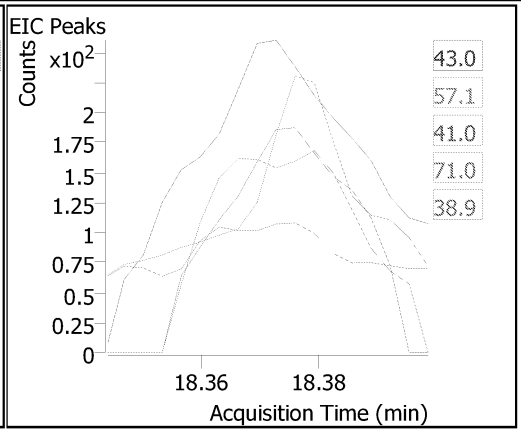
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.3728 | Pentane, 2-methyl- | 1688.4 | 80.1 | 107-83-5 | C6H14 | 0.003693 |

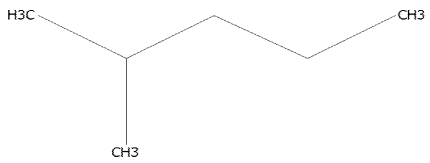


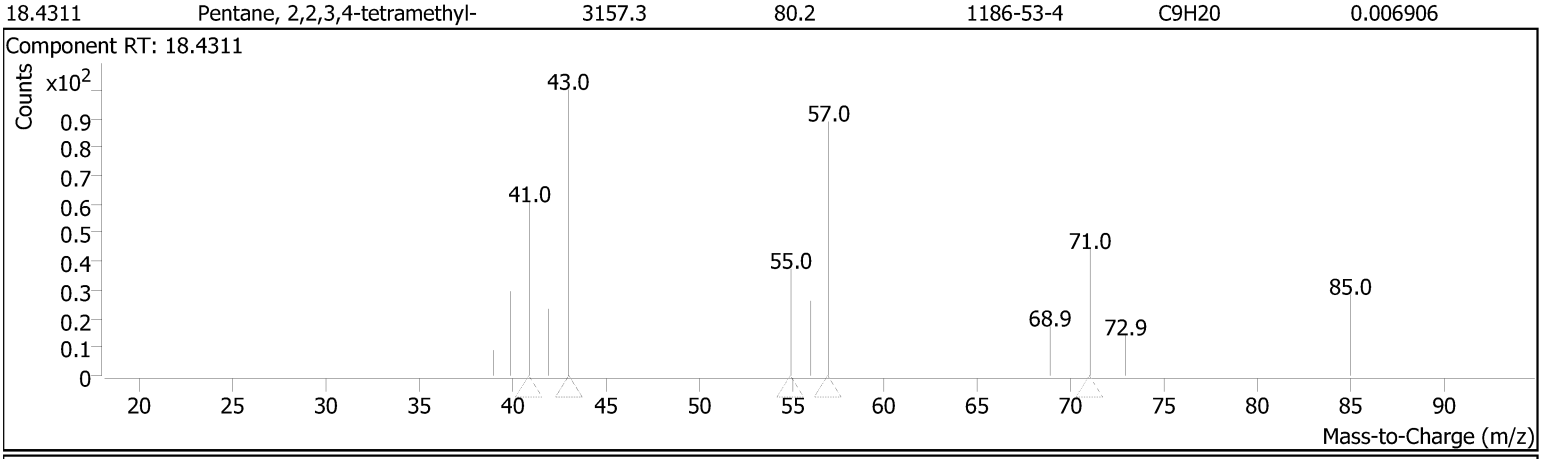



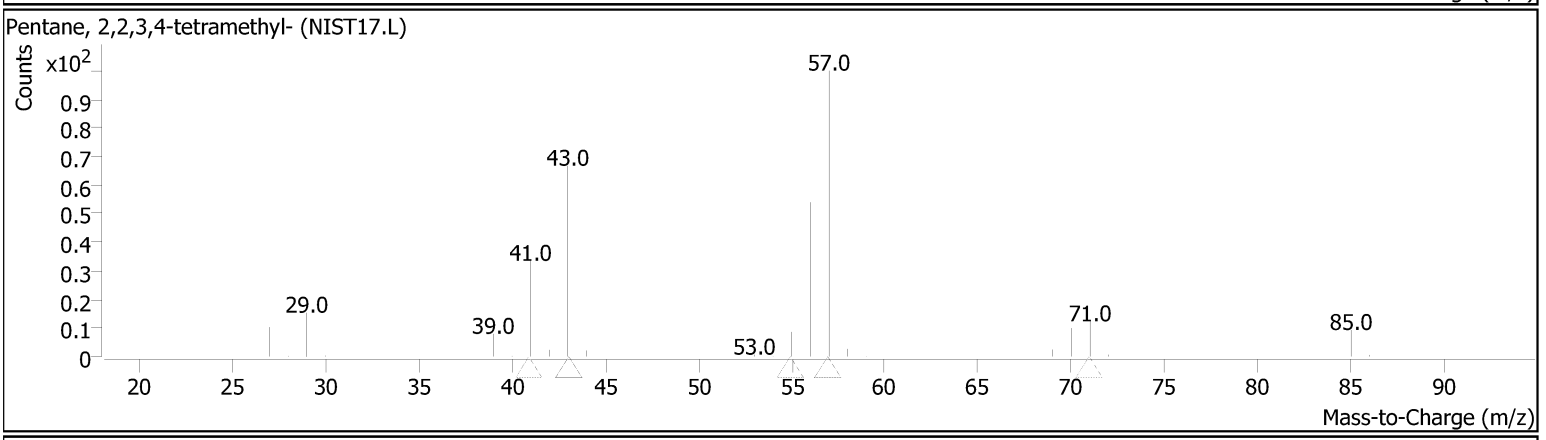



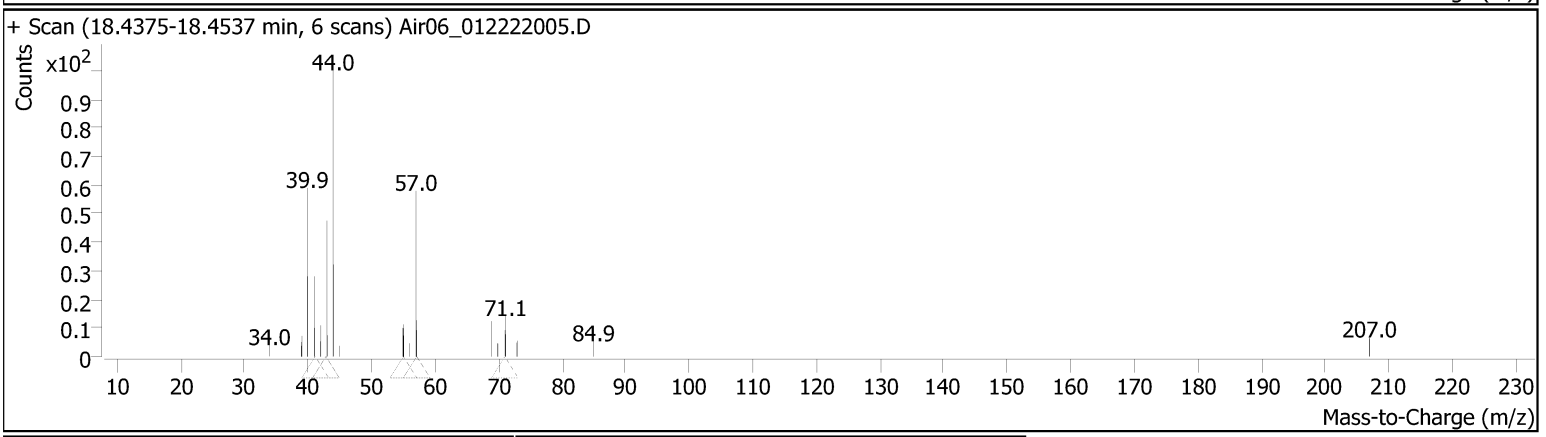



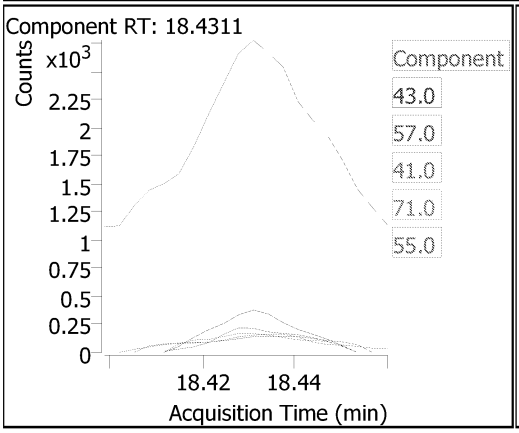



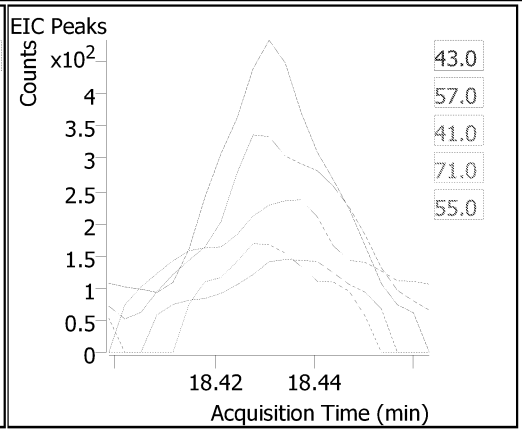
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.4311 | Pentane, 2,2,3,4-tetramethyl- | 3157.3 | 80.2 | 1186-53-4 | C9H20 | 0.006906 |

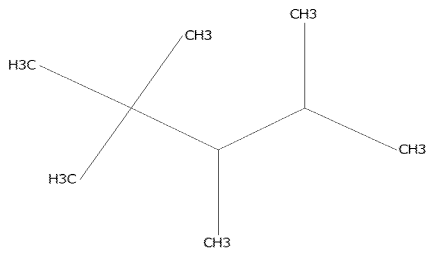


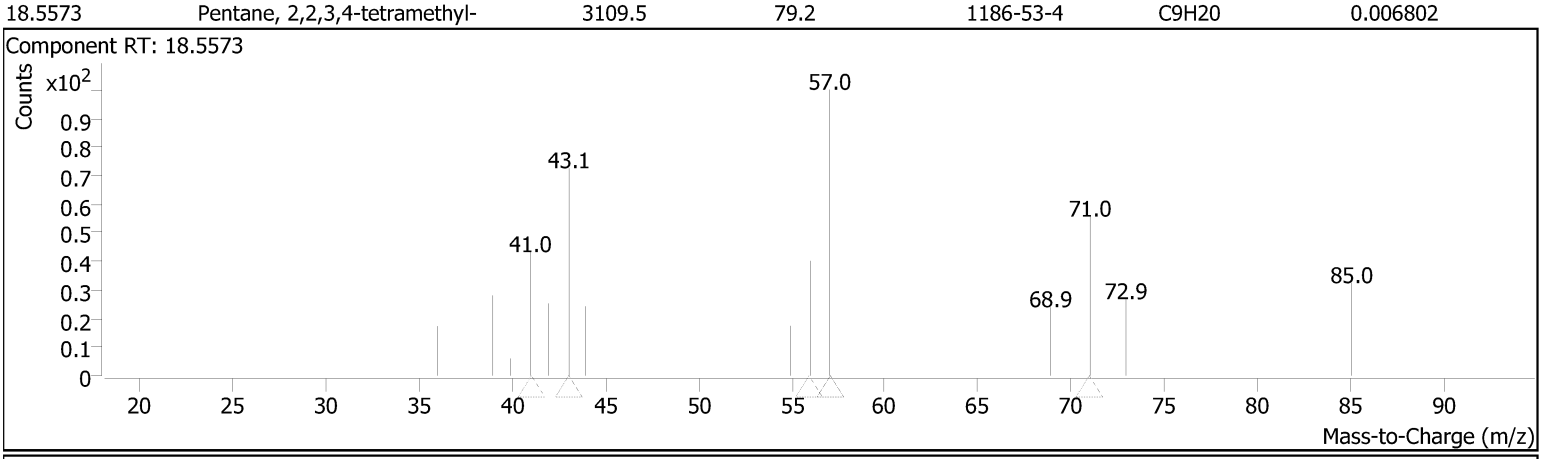



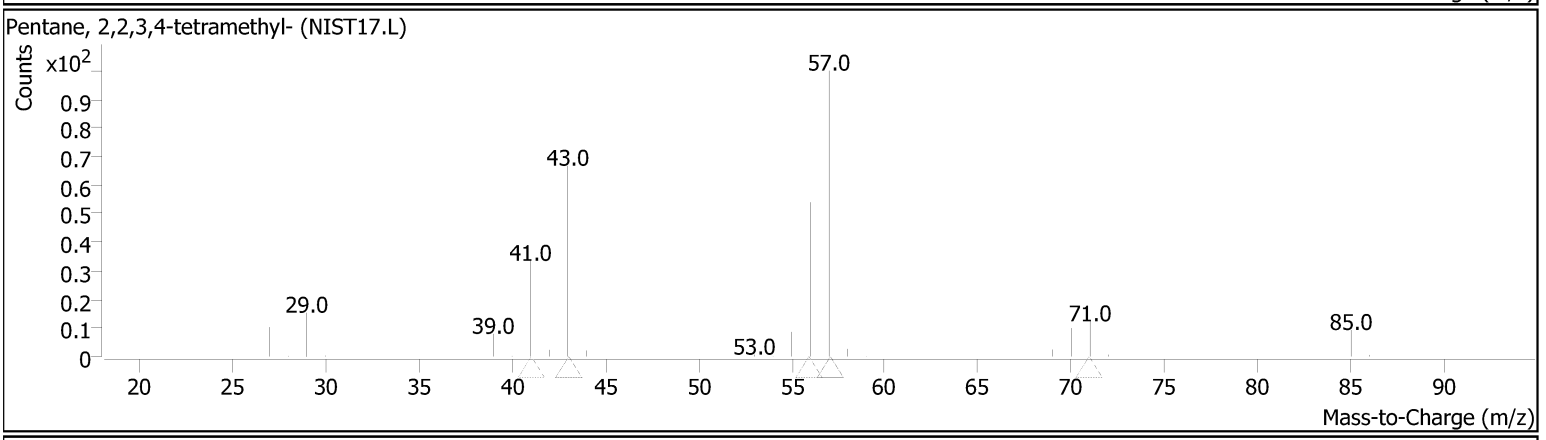



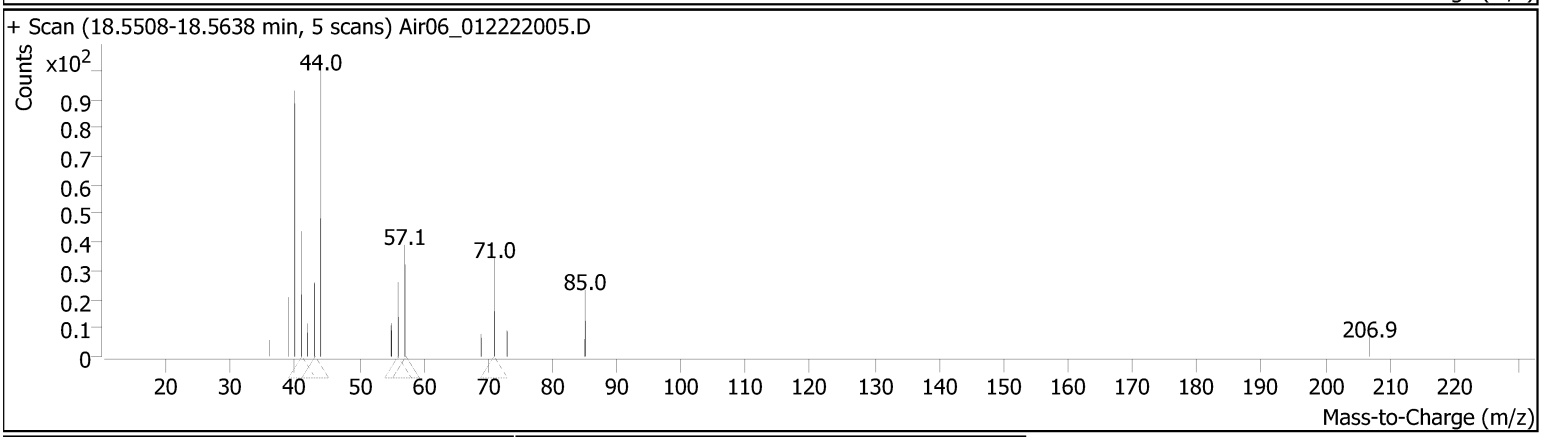



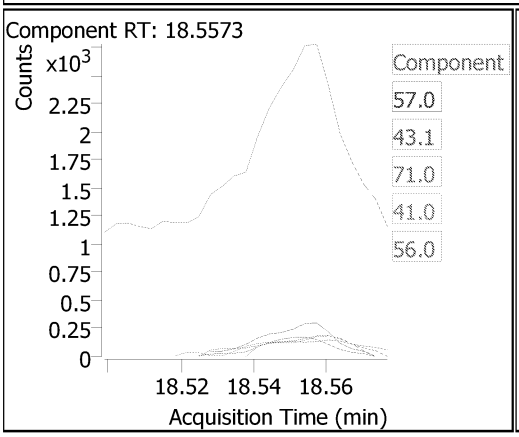



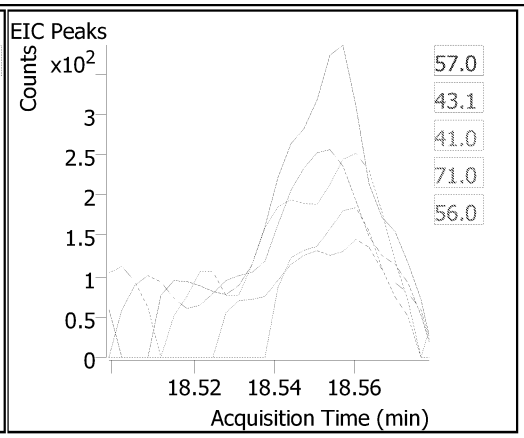
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 18.5573 | Pentane, 2,2,3,4-tetramethyl- | 3109.5 | 79.2 | 1186-53-4 | C9H20 | 0.006802 |

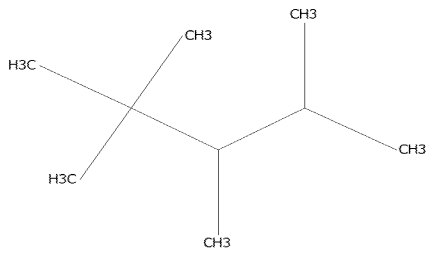


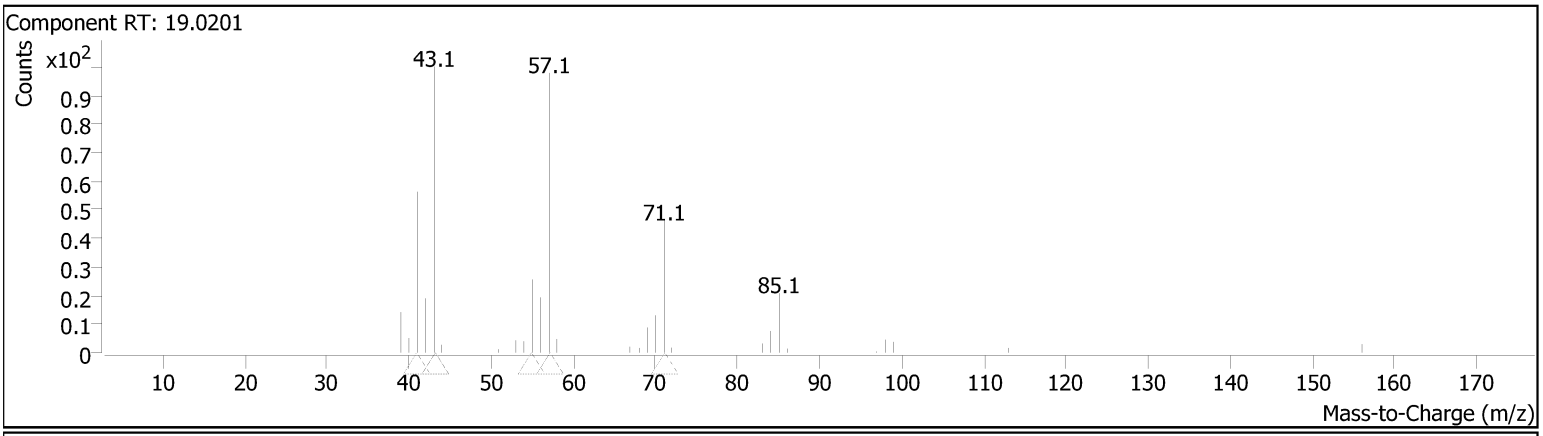



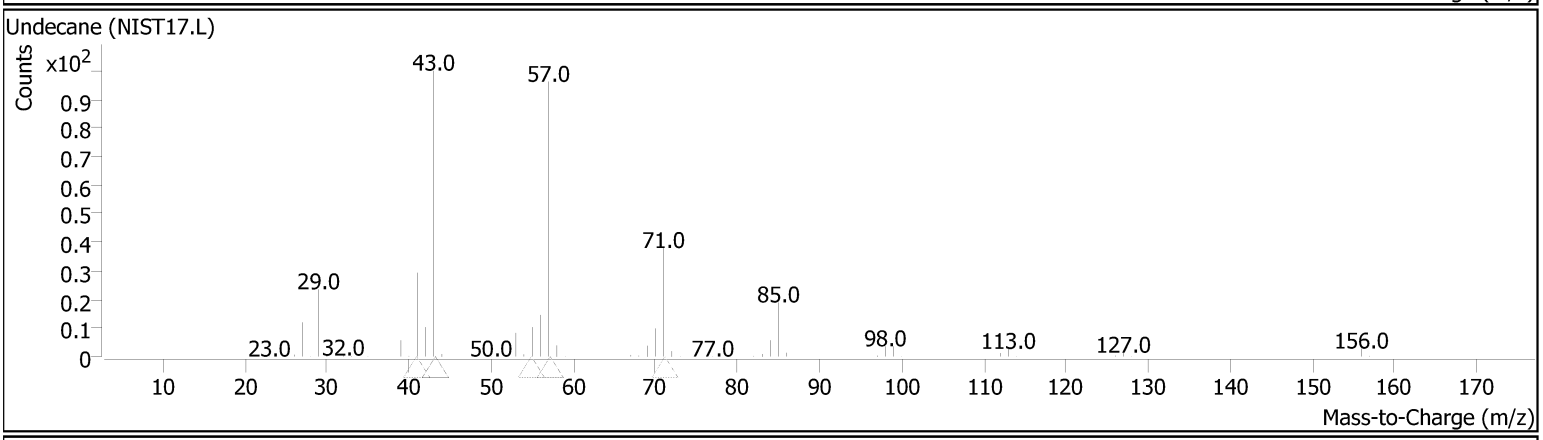



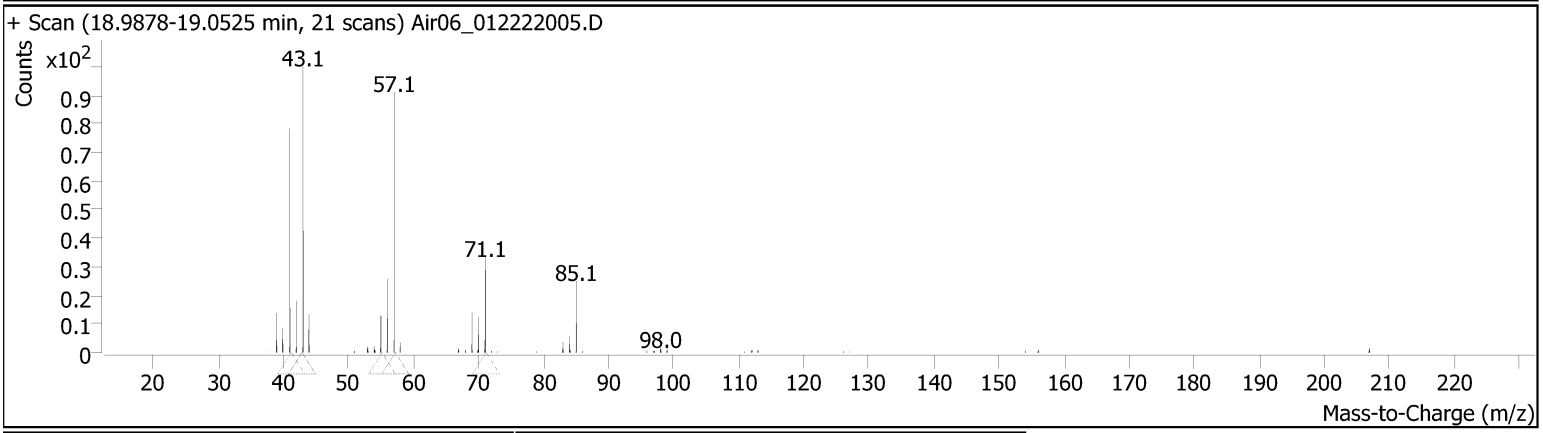



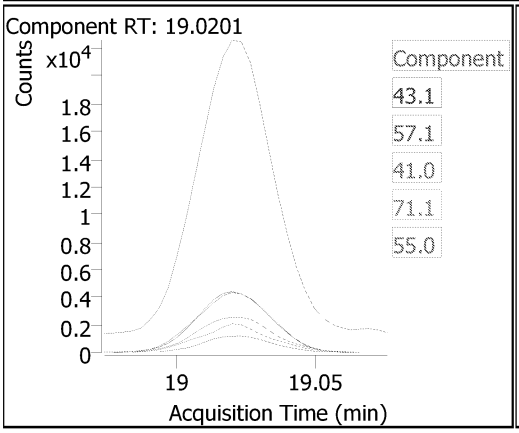



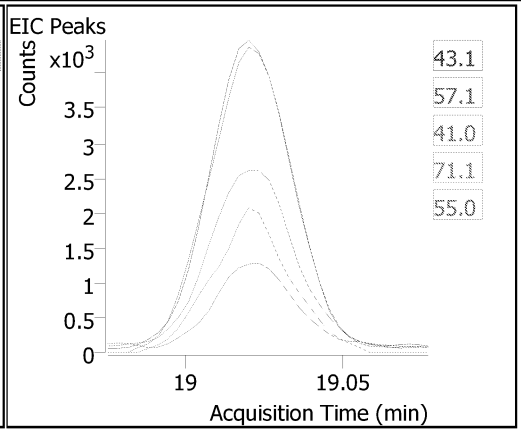
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.0201 | Undecane | 40964.3 | 94.1 | 1120-21-4 | C11H24 | 0.08961 |



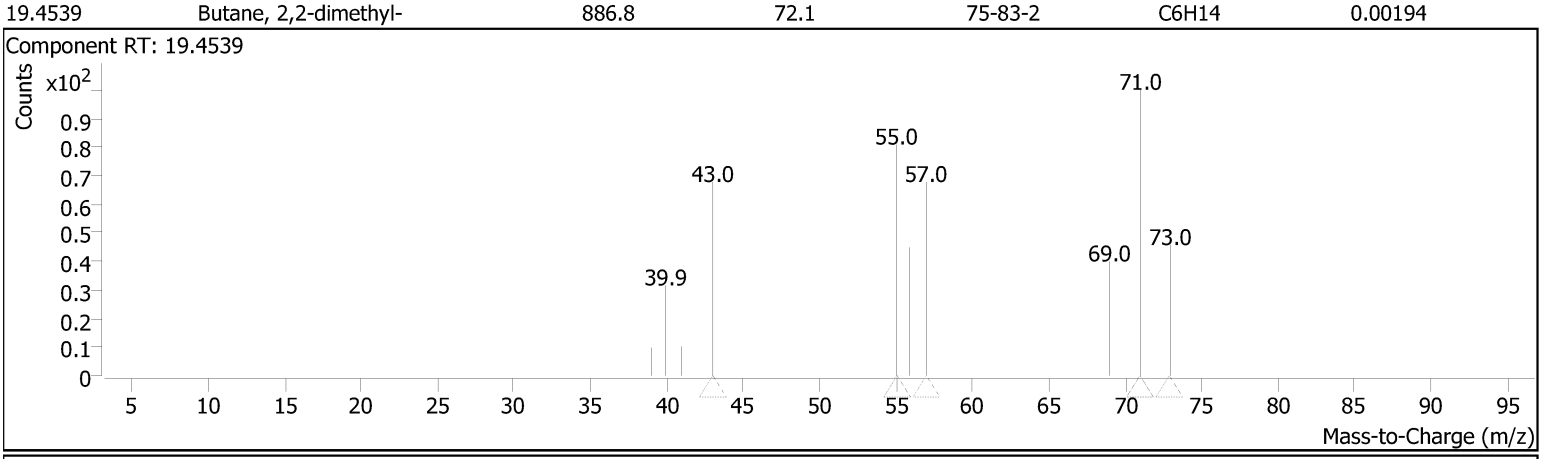



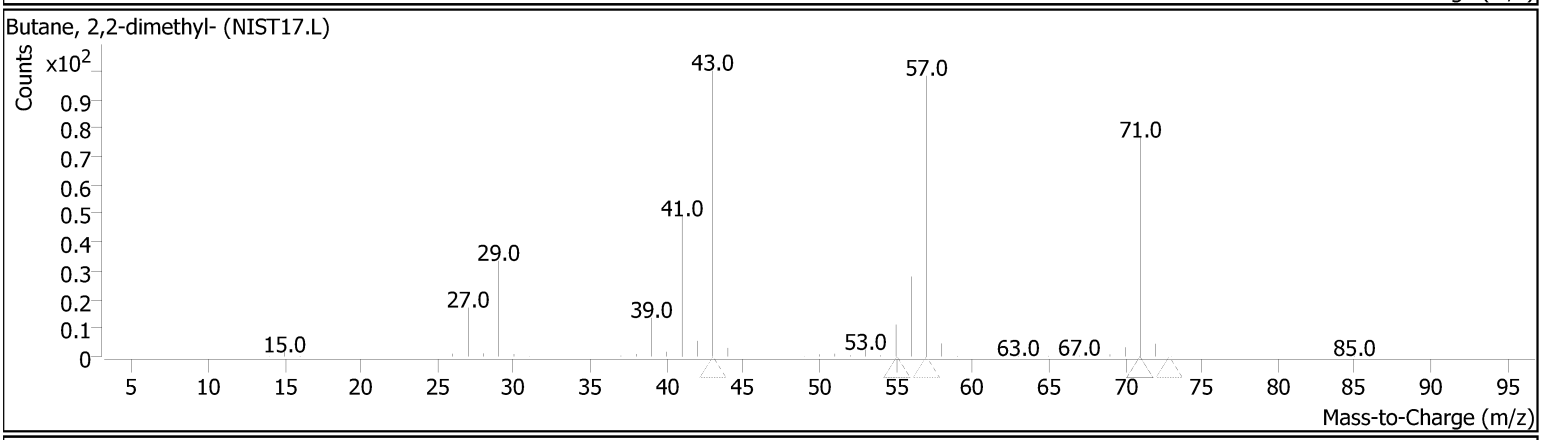


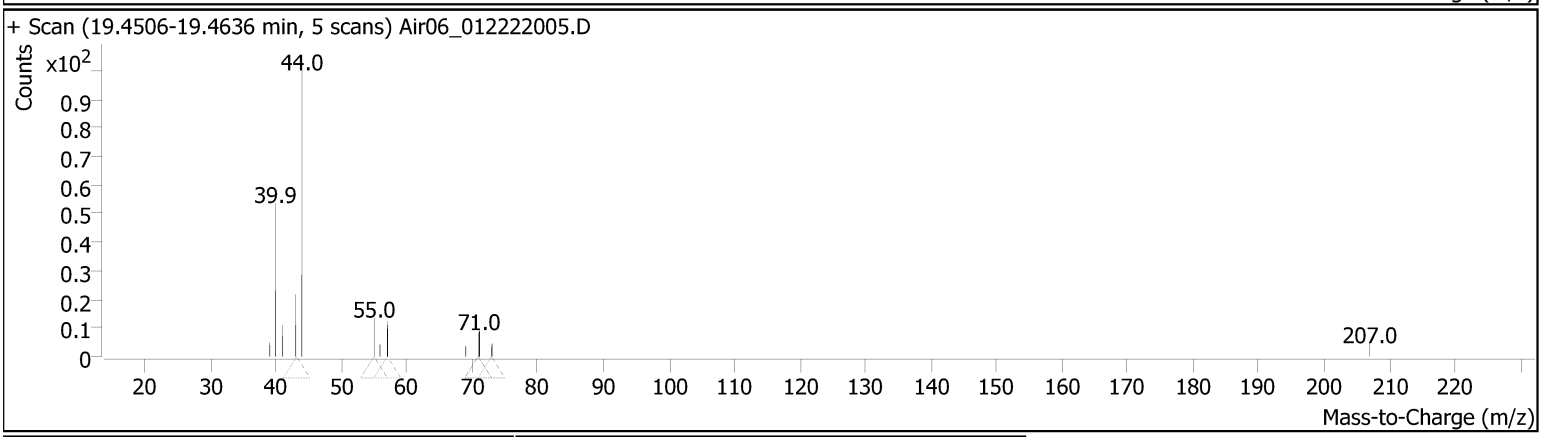

# Library Search Results - NonTarget Hits with Details

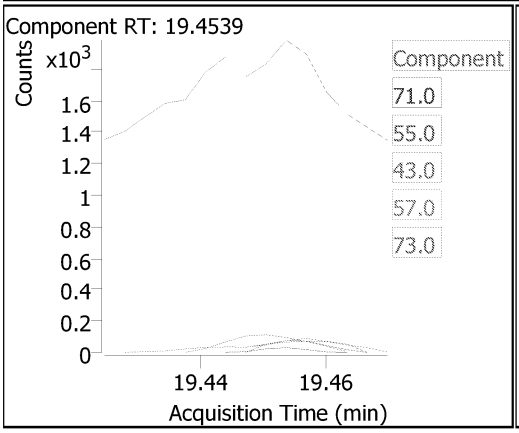
Agilent Technologies

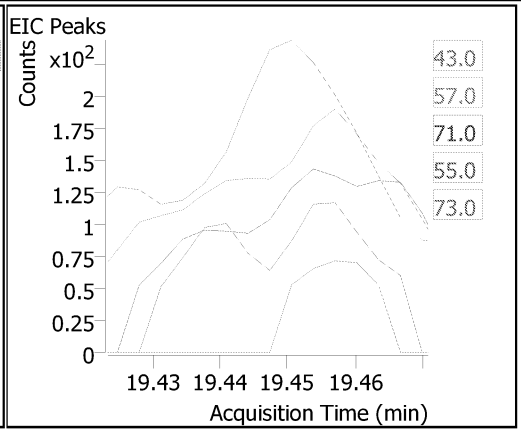
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.4539 | Butane, 2,2-dimethyl- | 886.8 | 72.1 | 75-83-2 | C6H14 | 0.00194 |

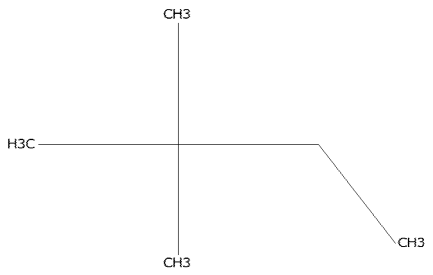


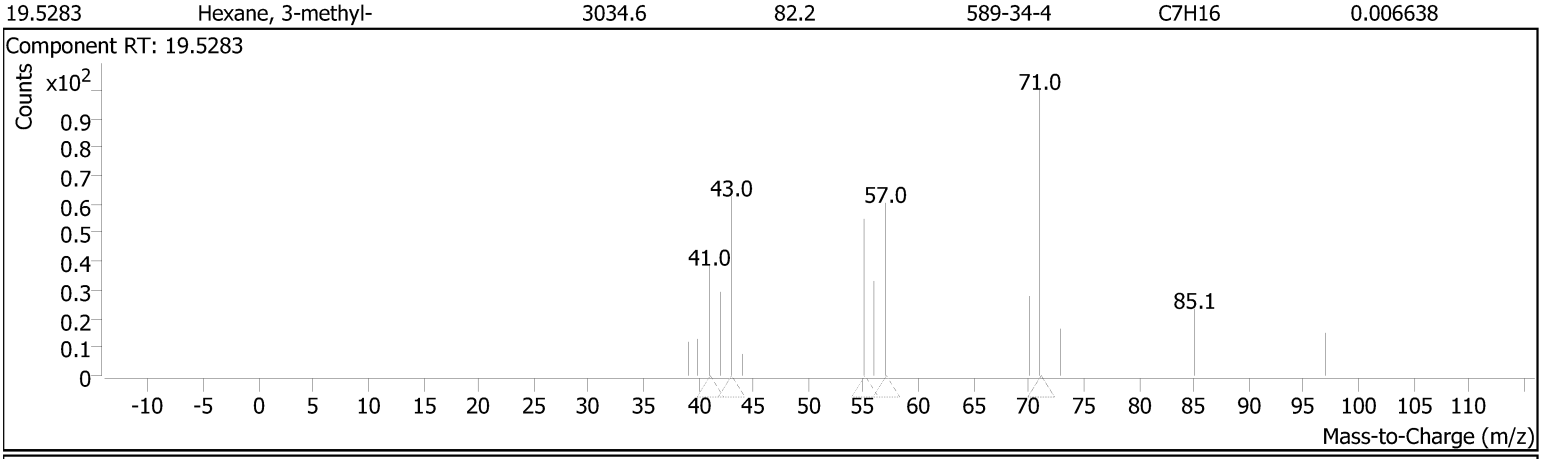



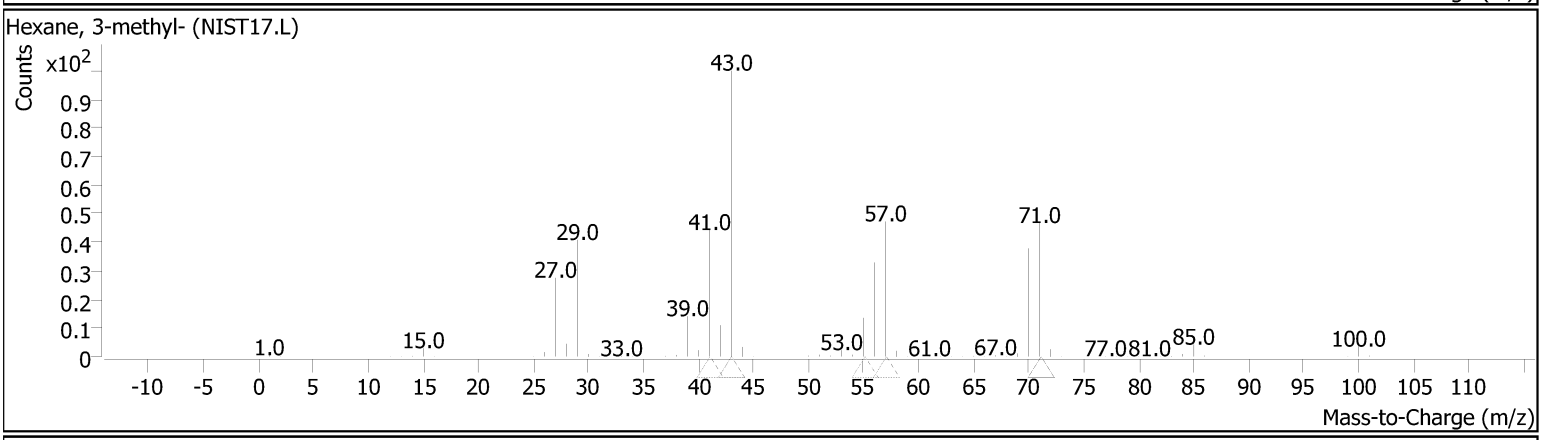



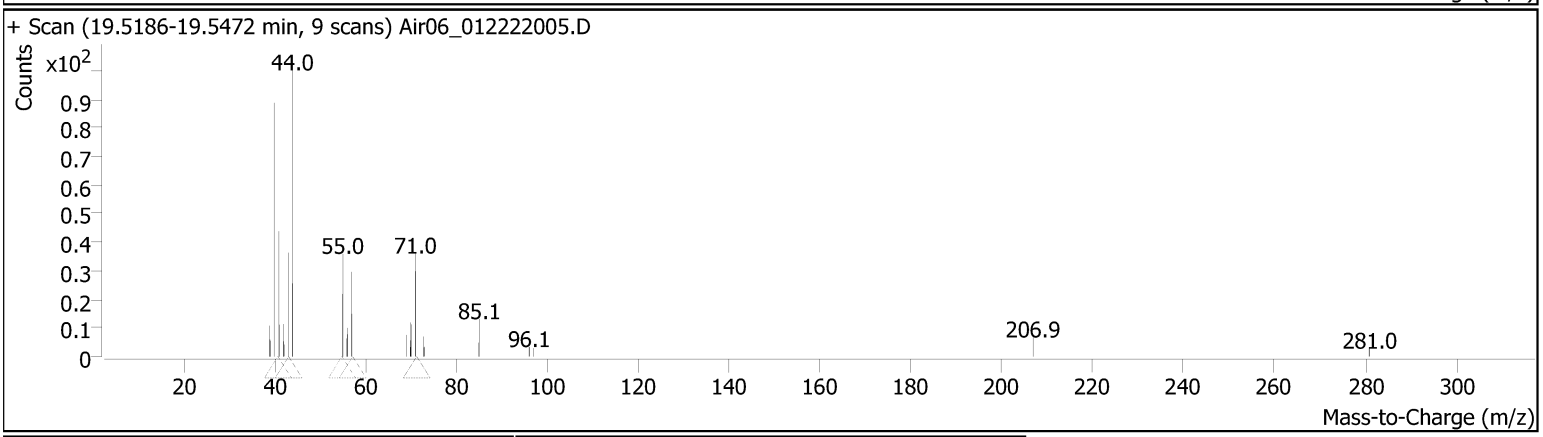



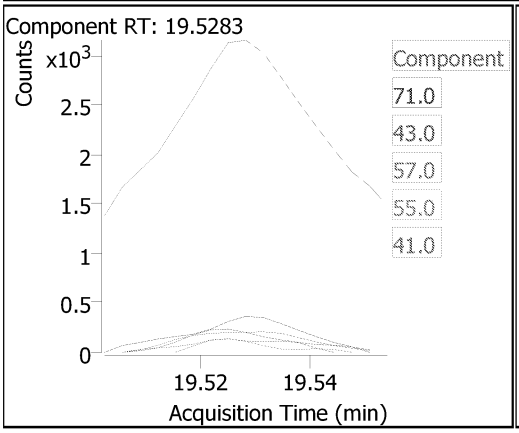



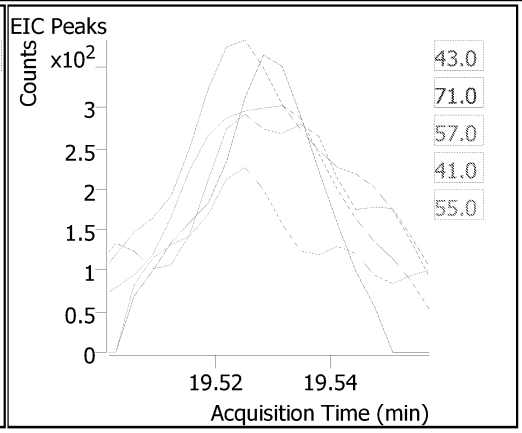
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.5283 | Hexane, 3-methyl- | 3034.6 | 82.2 | 589-34-4 | C7H16 | 0.006638 |

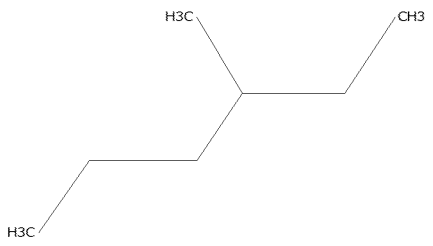


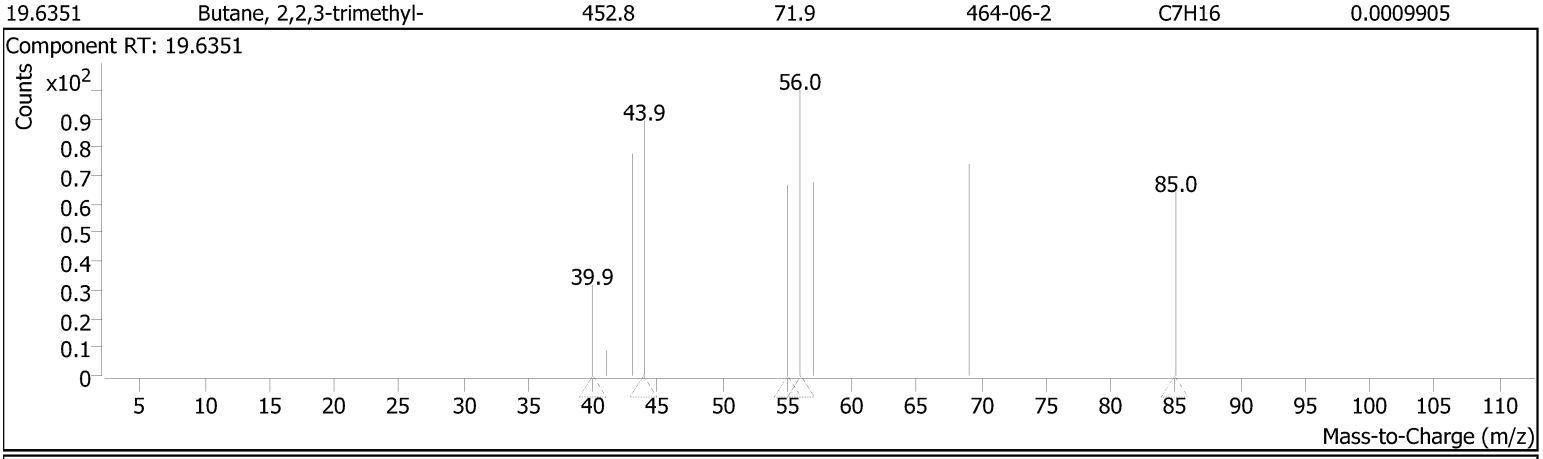



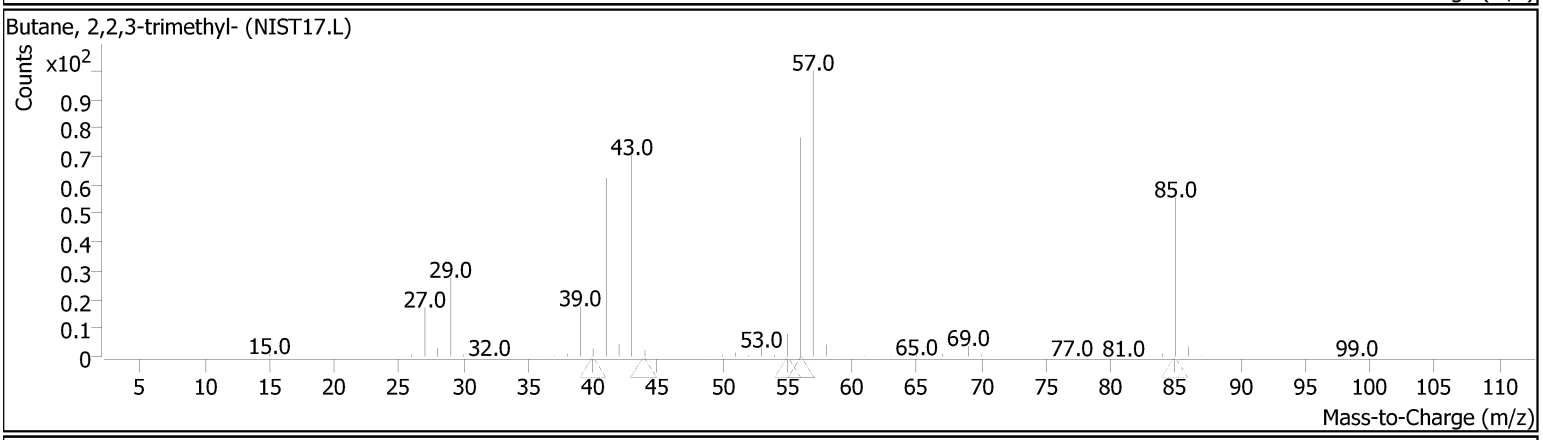



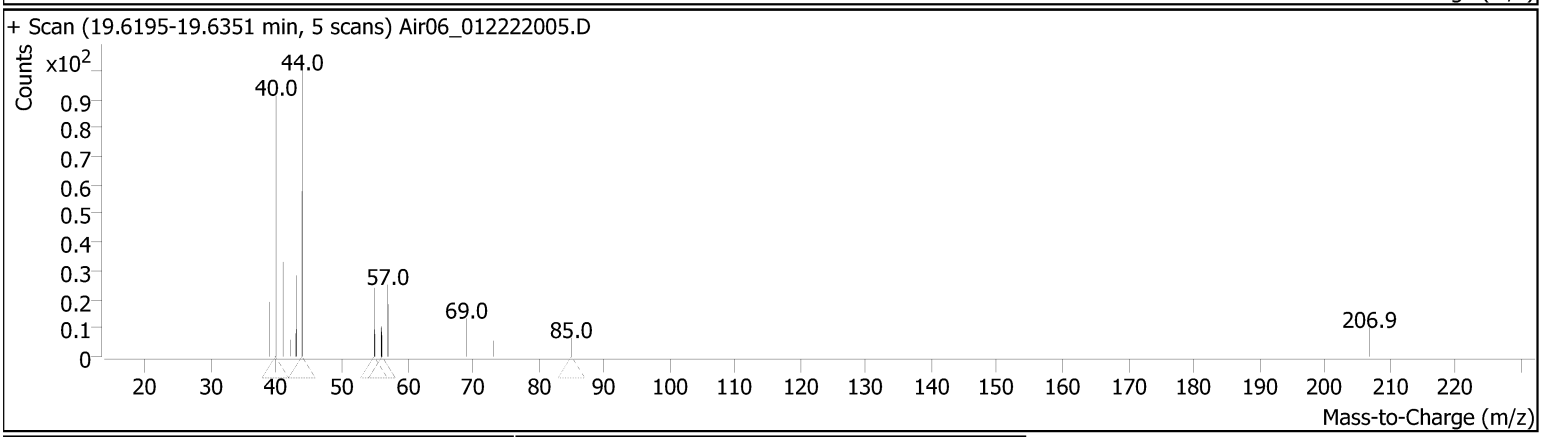



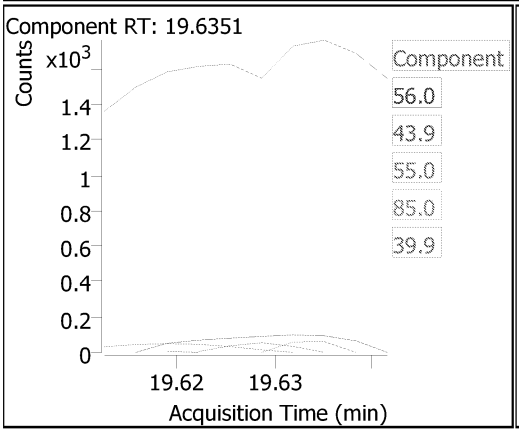



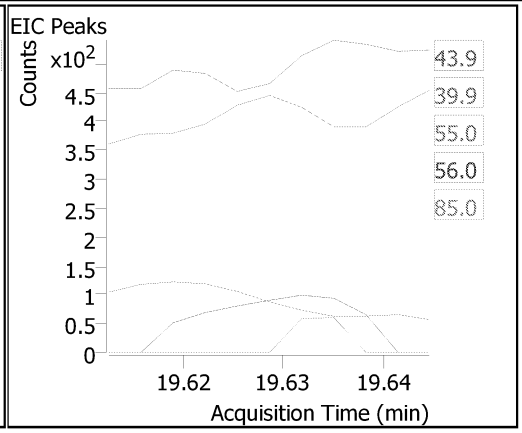
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.6351 | Butane, 2,2,3-trimethyl- | 452.8 | 71.9 | 464-06-2 | C7H16 | 0.0009905 |

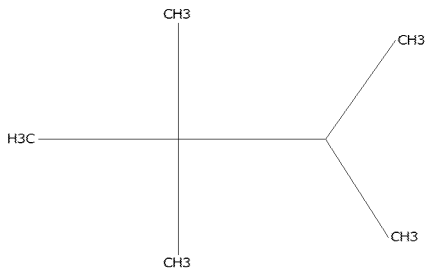


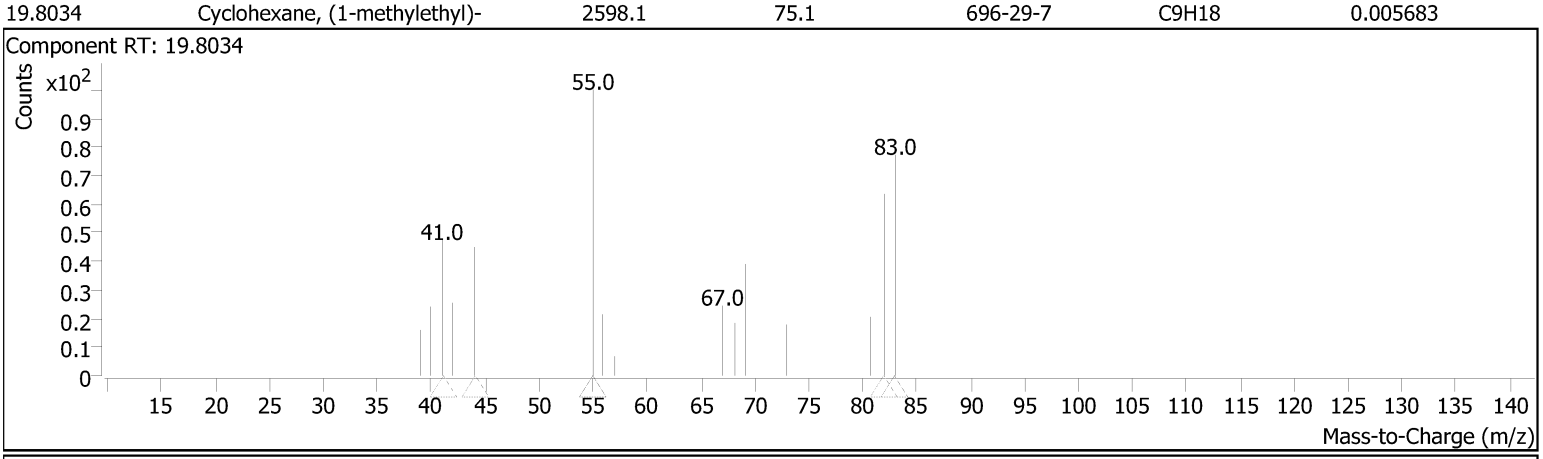



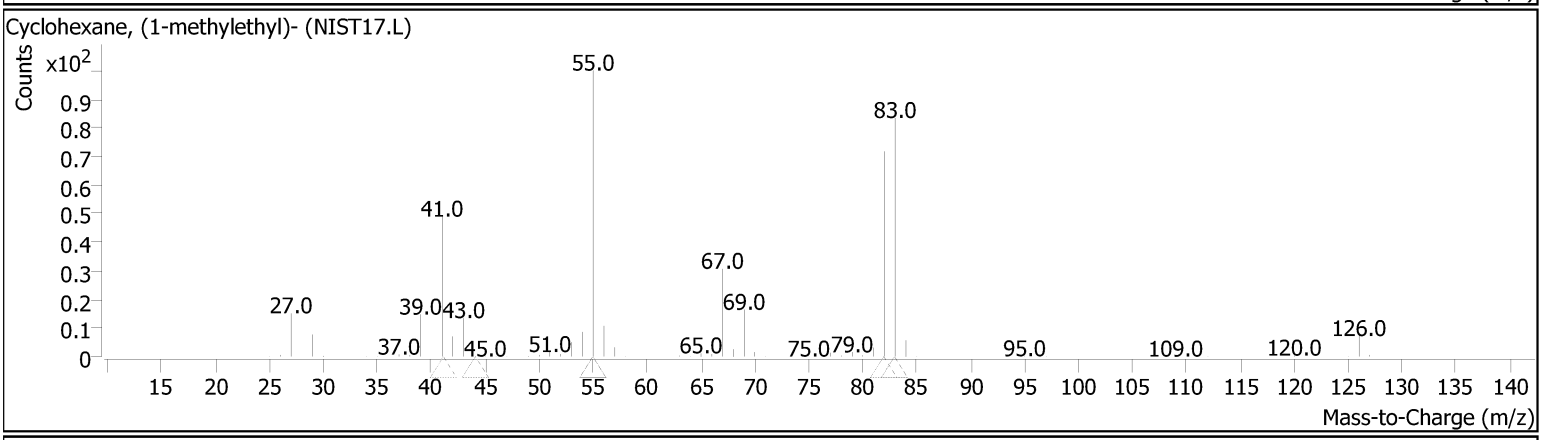



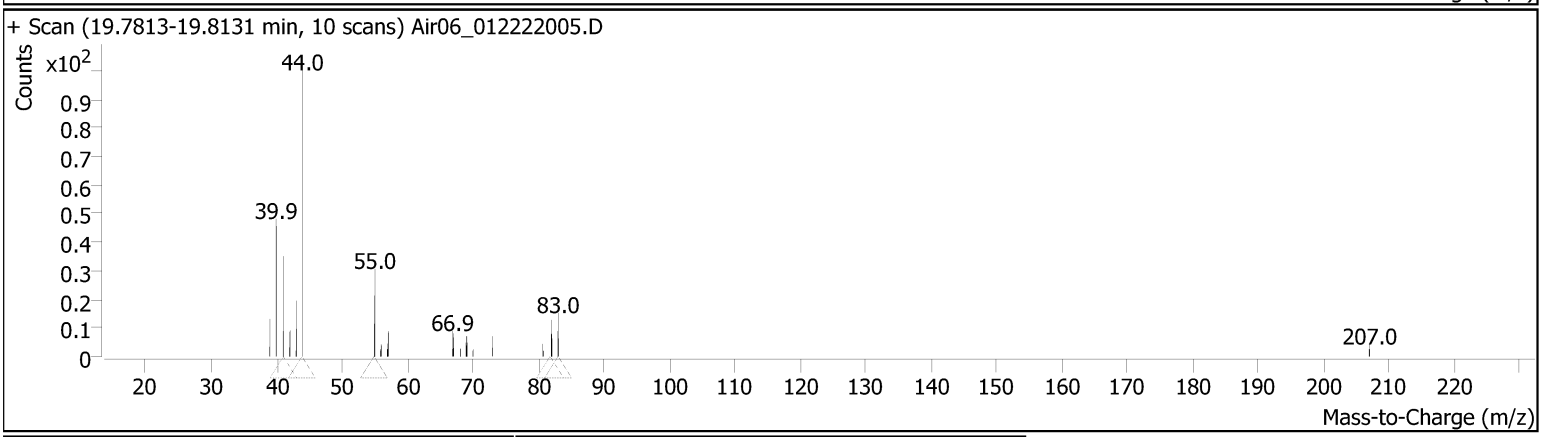



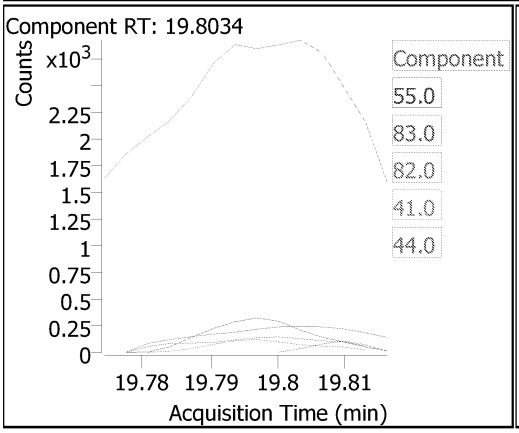



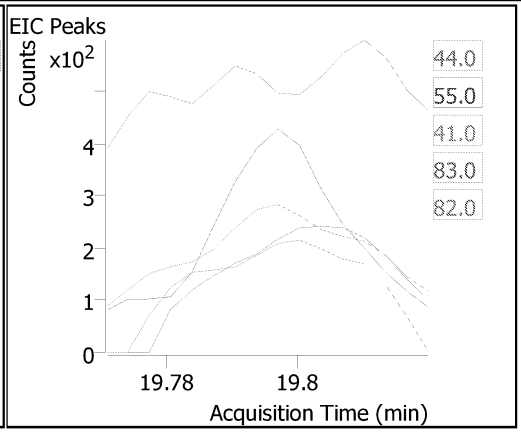
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.8034 | Cyclohexane, (1-methylethyl)- | 2598.1 | 75.1 | 696-29-7 | C9H18 | 0.005683 |

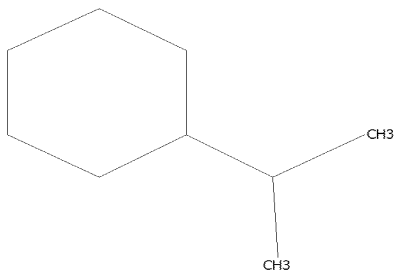


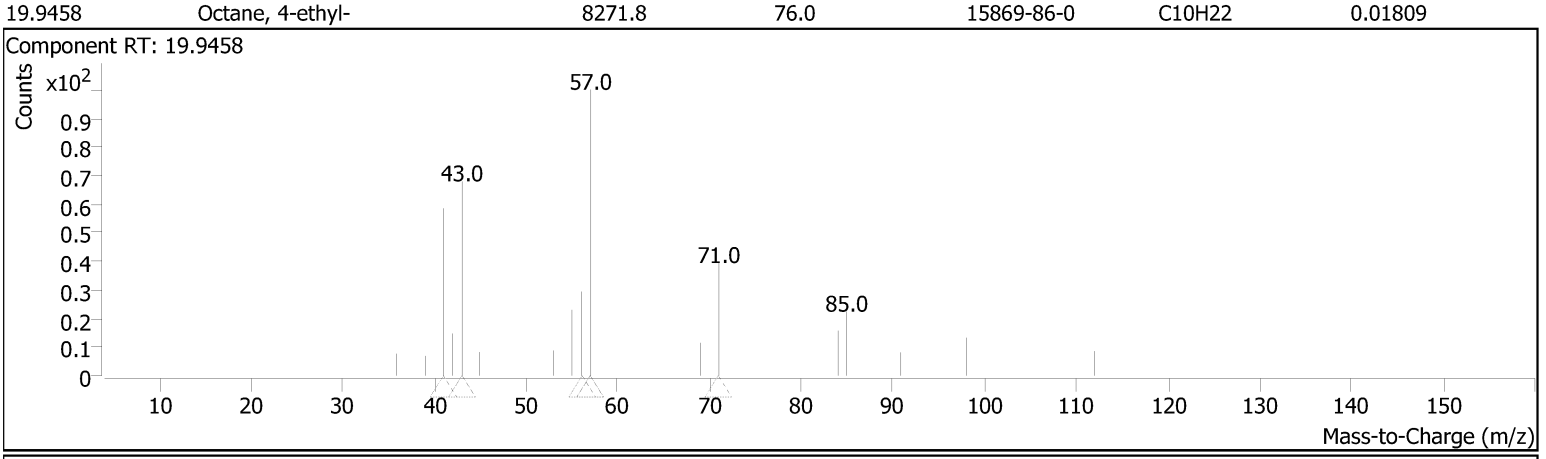



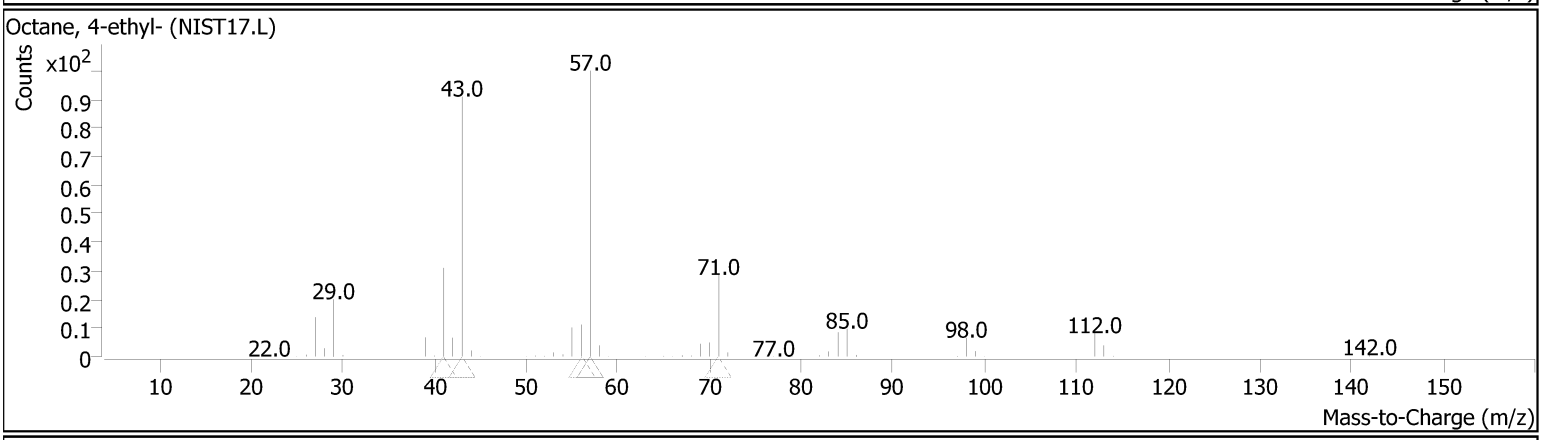



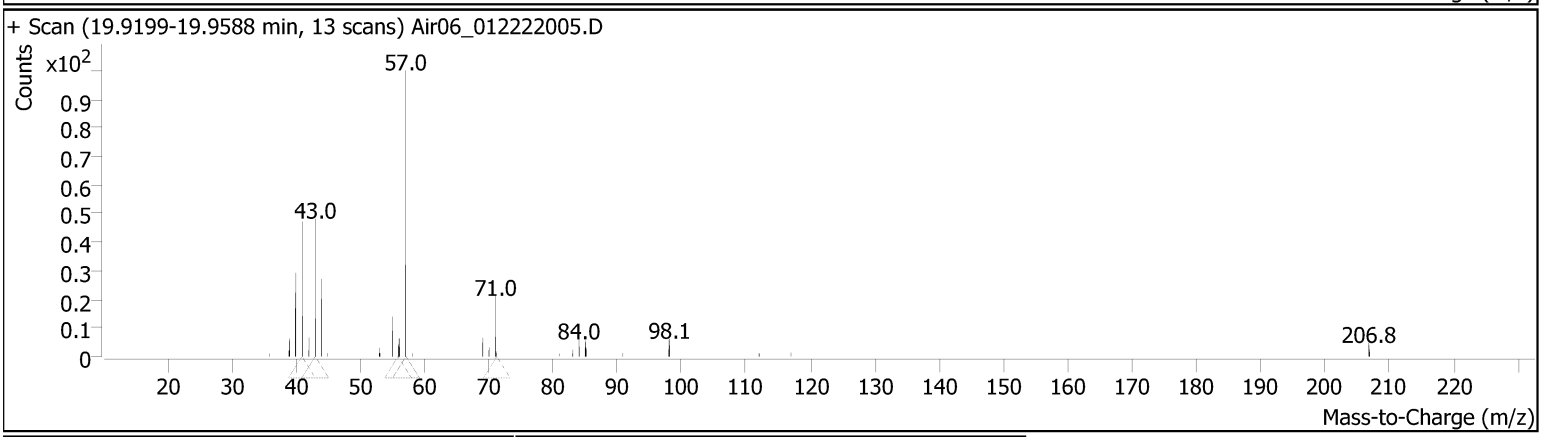



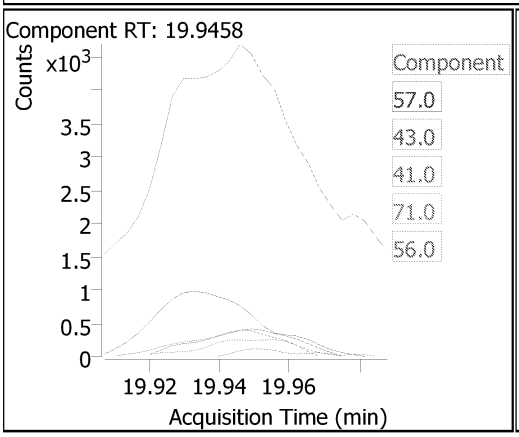



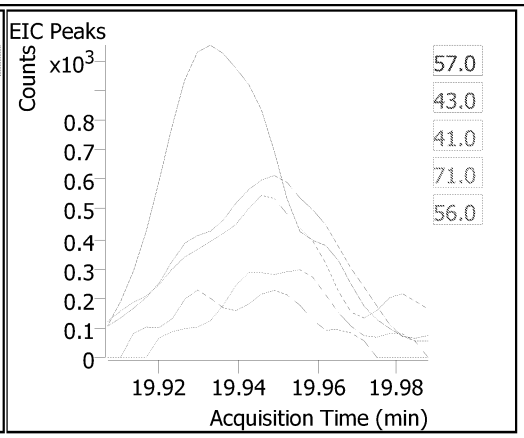
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 19.9458 | Octane, 4-ethyl- | 8271.8 | 76.0 | 15869-86-0 | C10H22 | 0.01809 |

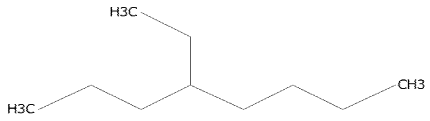


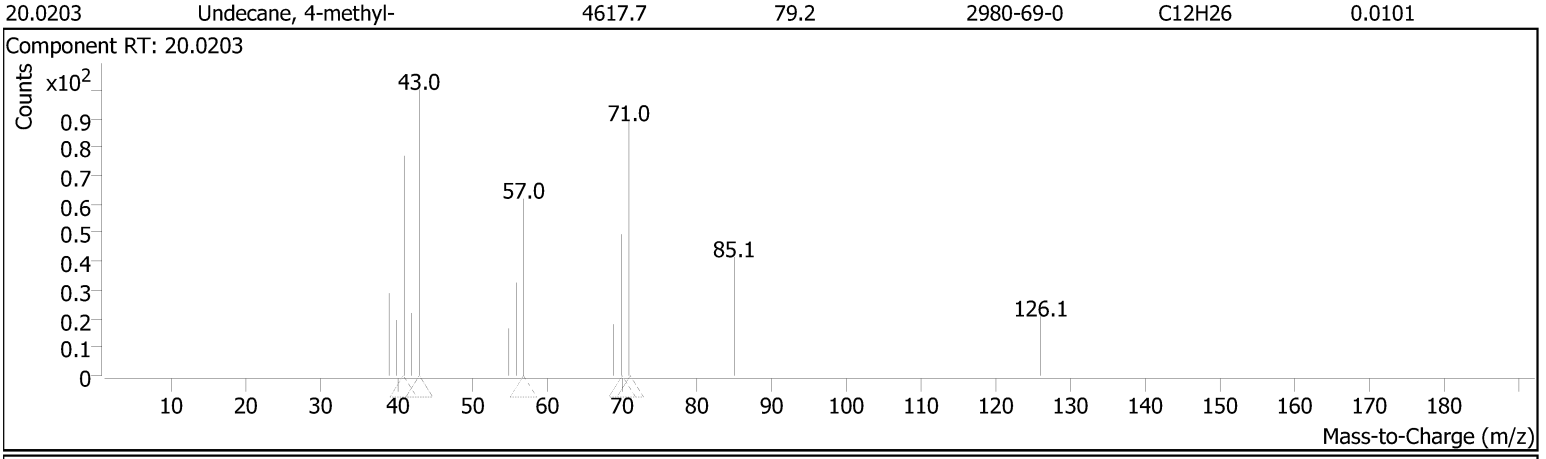



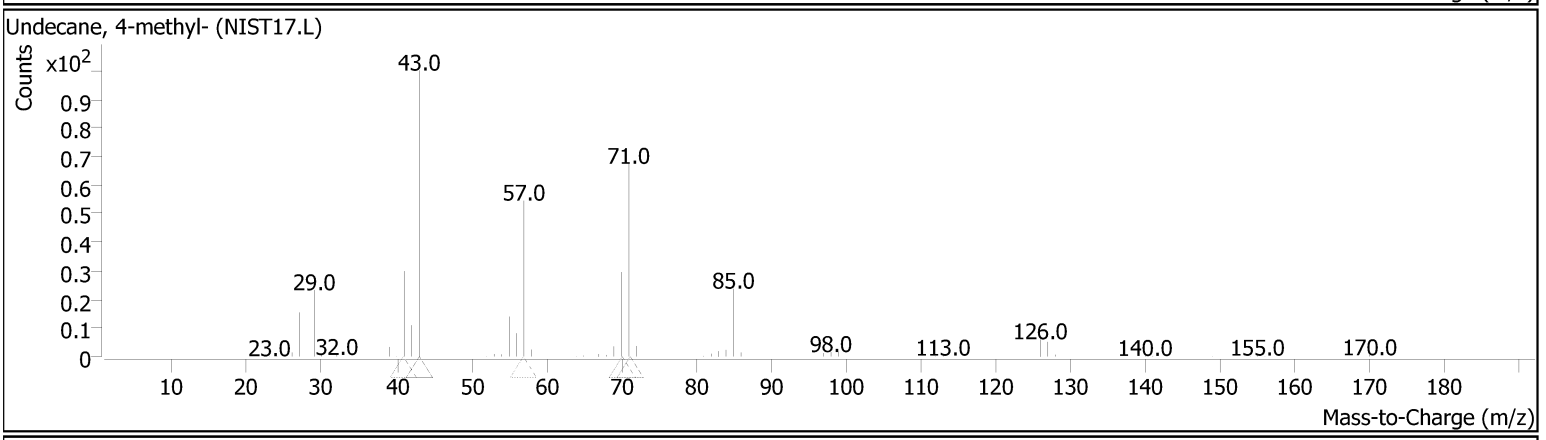



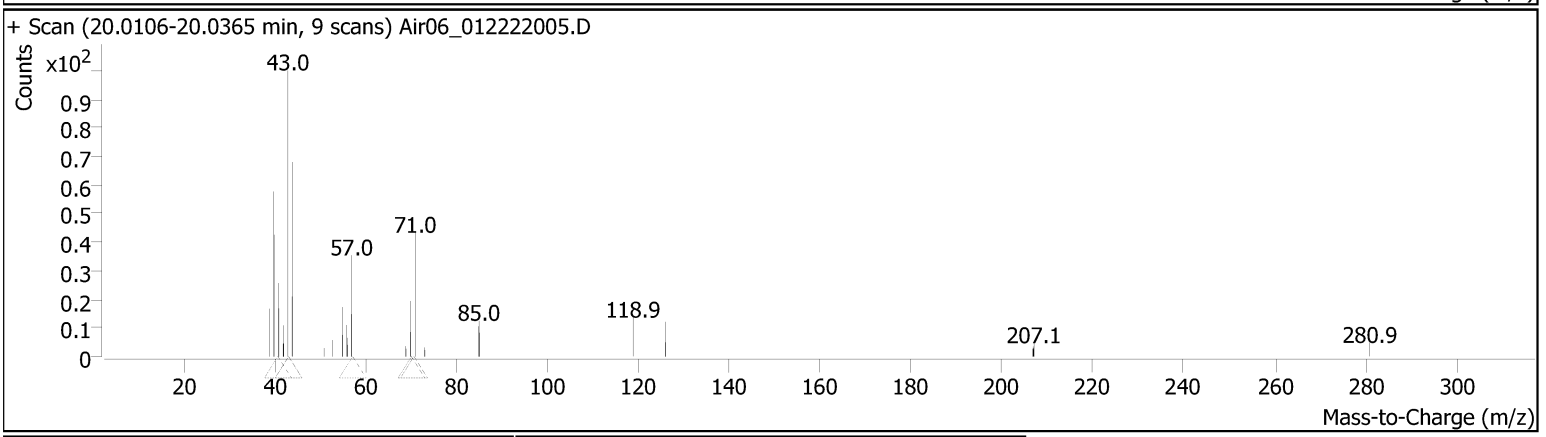



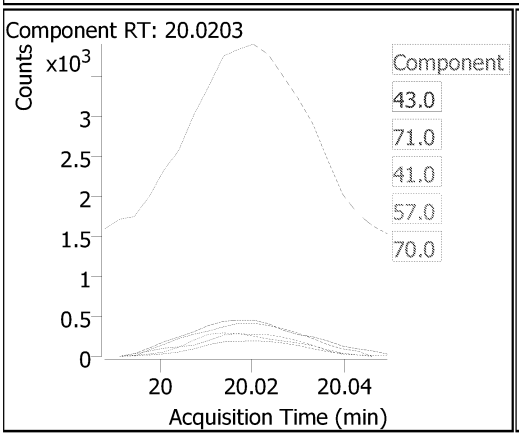



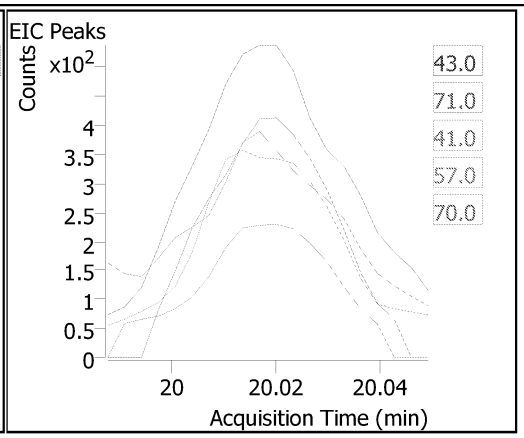
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0203 | Undecane, 4-methyl- | 4617.7 | 79.2 | 2980-69-0 | C12H26 | 0.0101 |

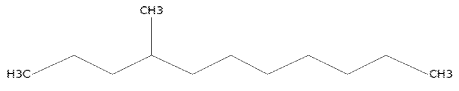


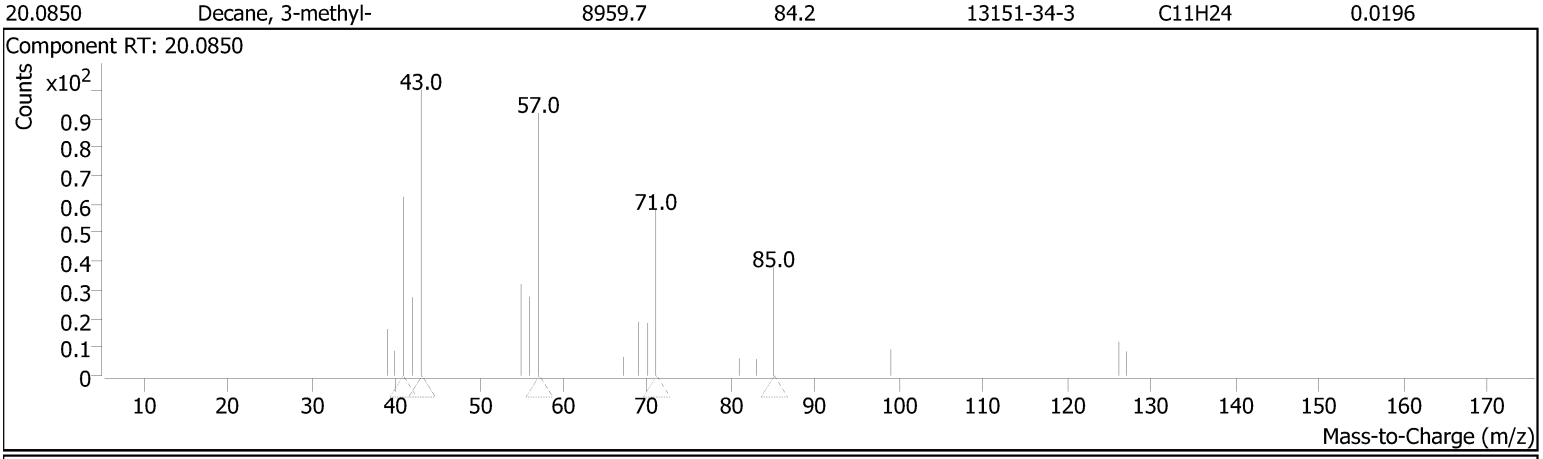



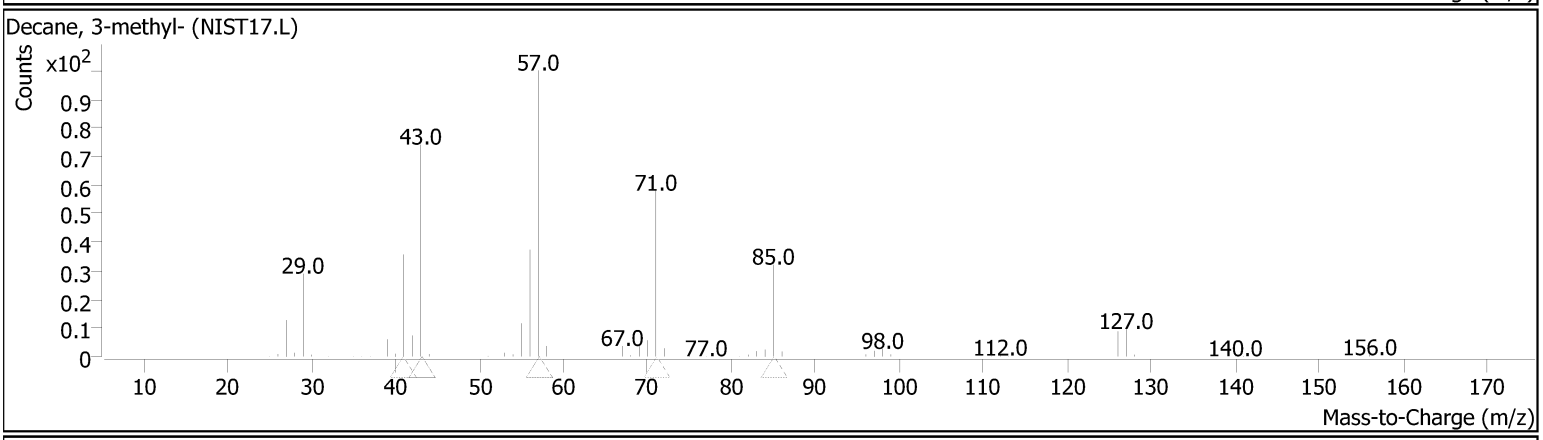



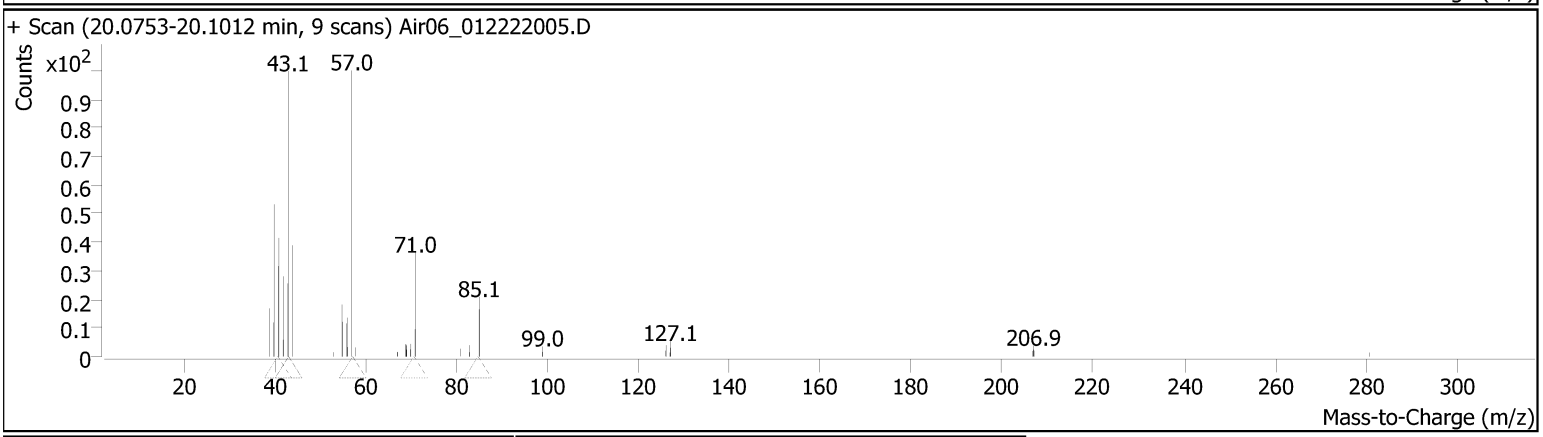



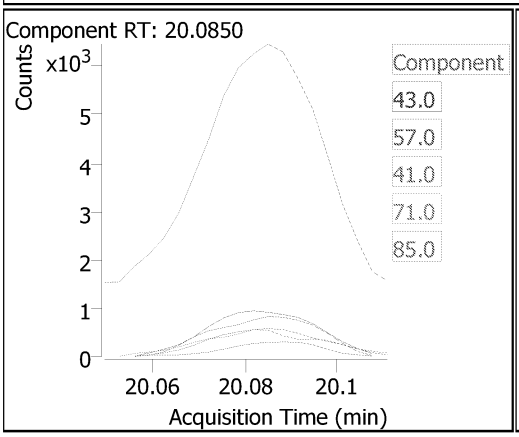



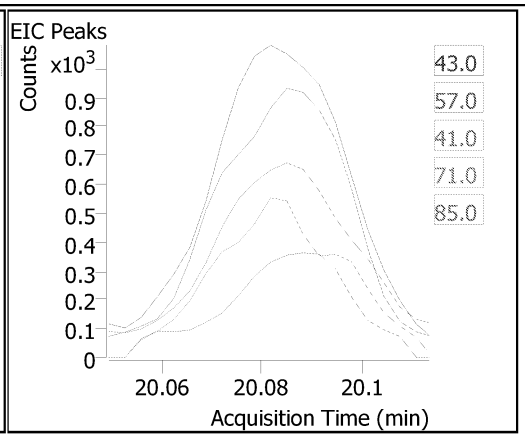
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.0850 | Decane, 3-methyl- | 8959.7 | 84.2 | 13151-34-3 | C11H24 | 0.0196 |

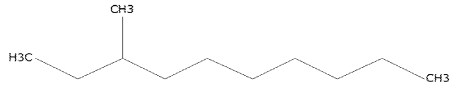


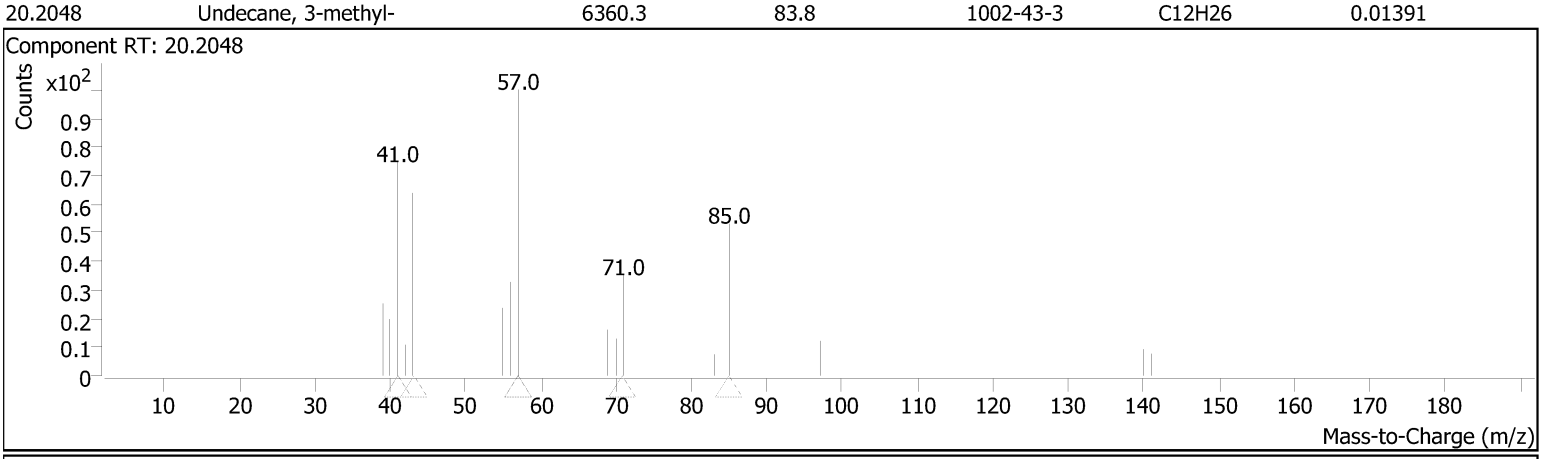



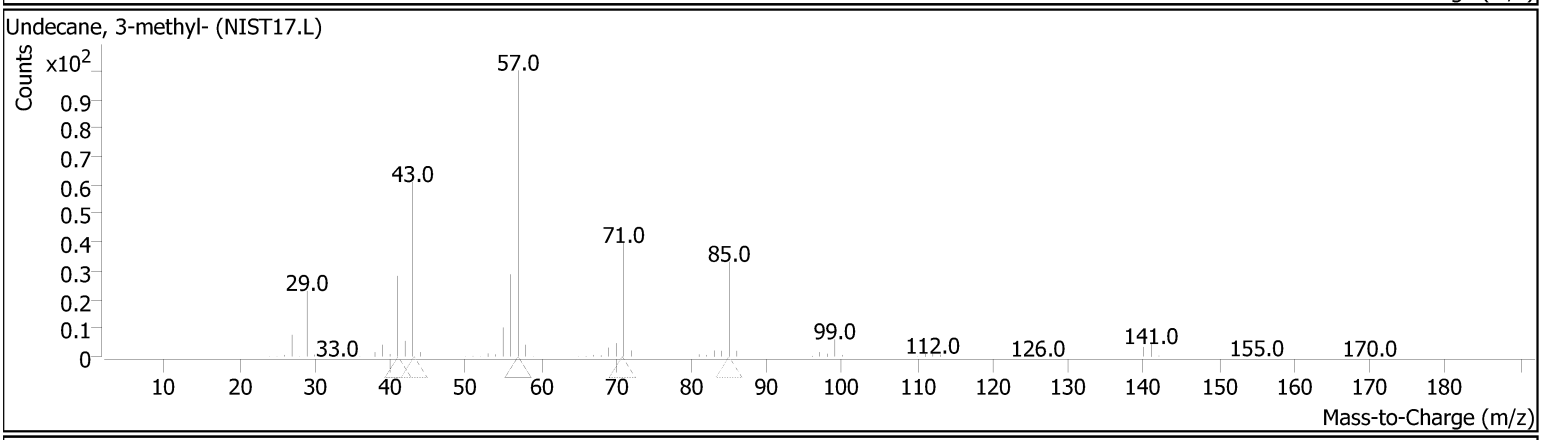



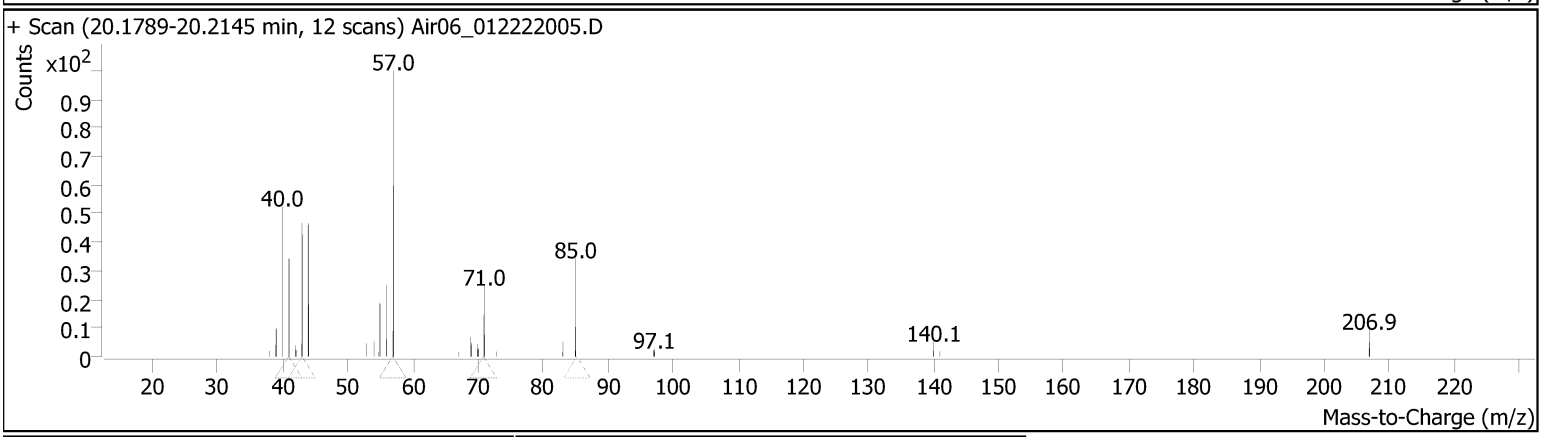



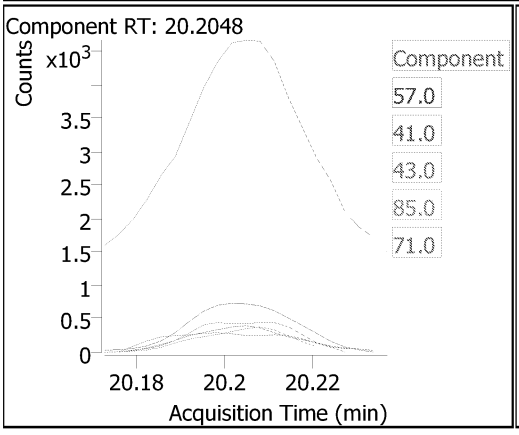



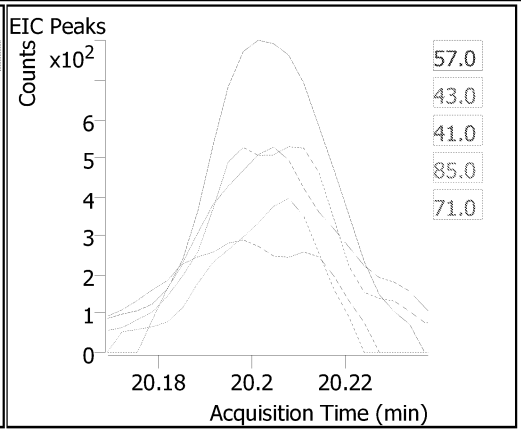
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.2048 | Undecane, 3-methyl- | 6360.3 | 83.8 | 1002-43-3 | C12H26 | 0.01391 |

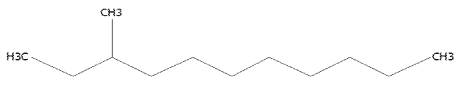


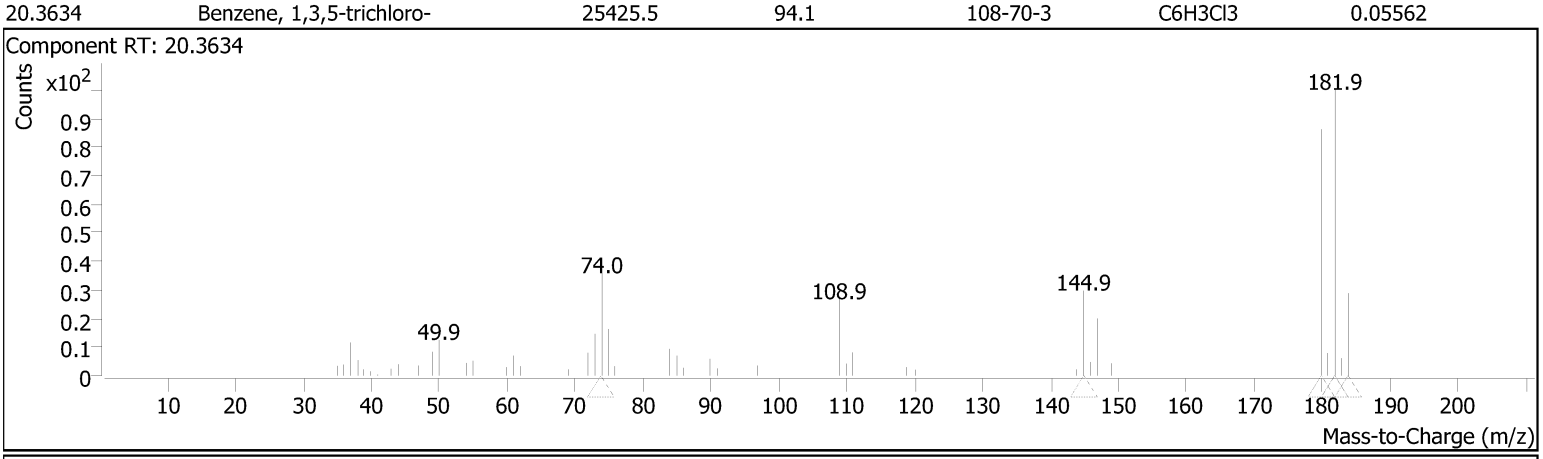



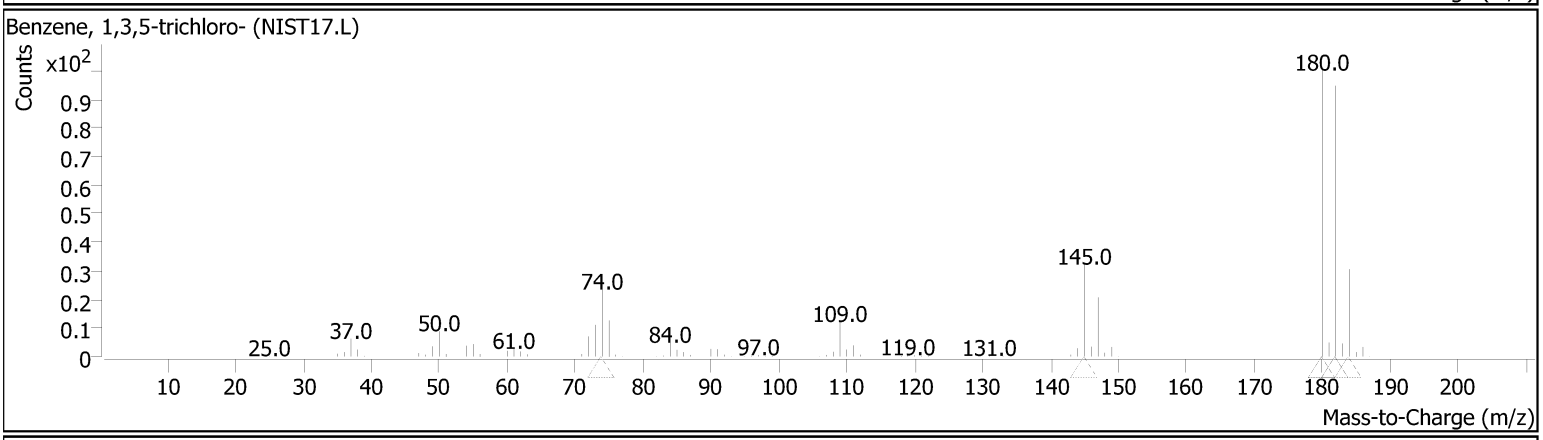



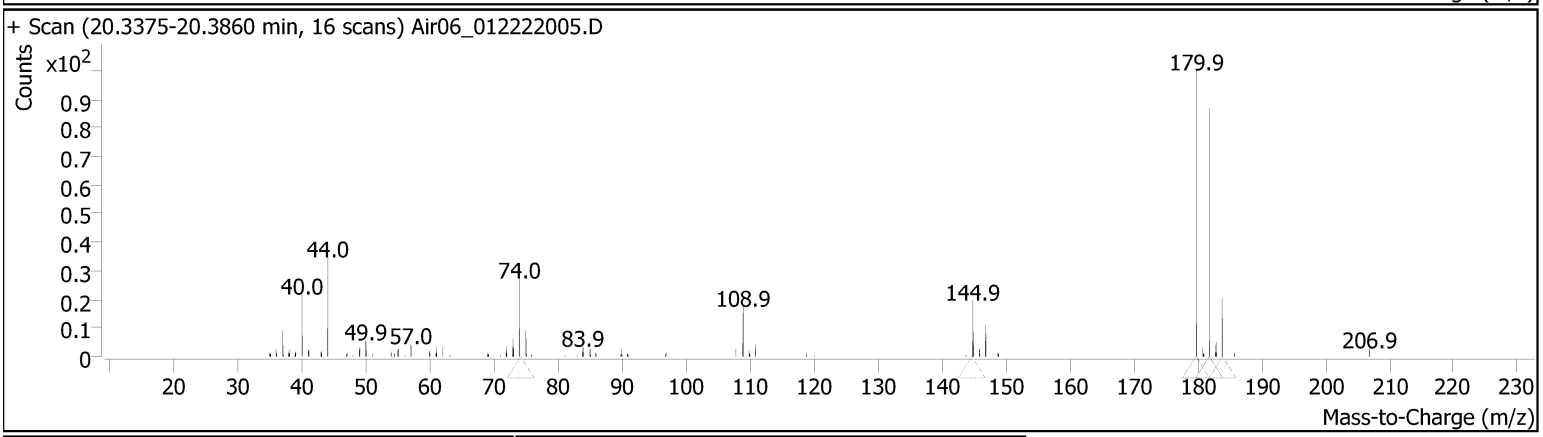



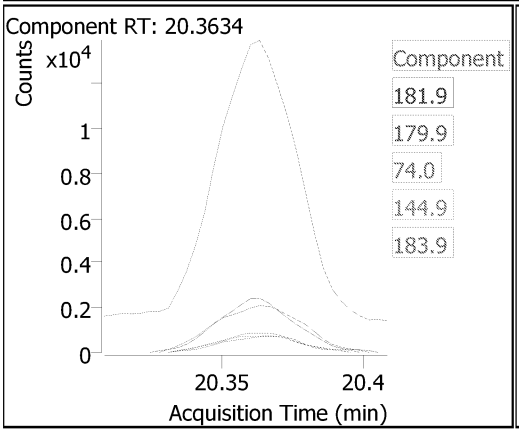



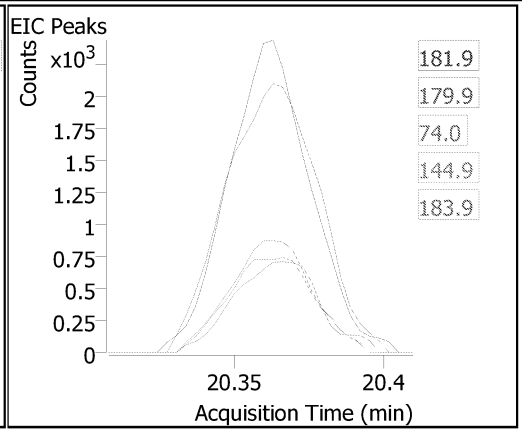
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.3634 | Benzene, 1,3,5-trichloro- | 25425.5 | 94.1 | 108-70-3 | C6H3Cl3 | 0.05562 |

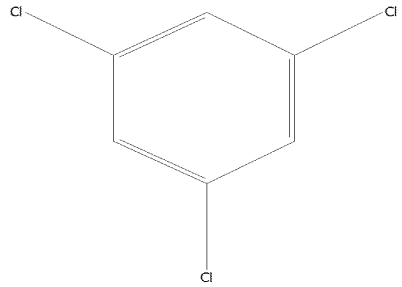


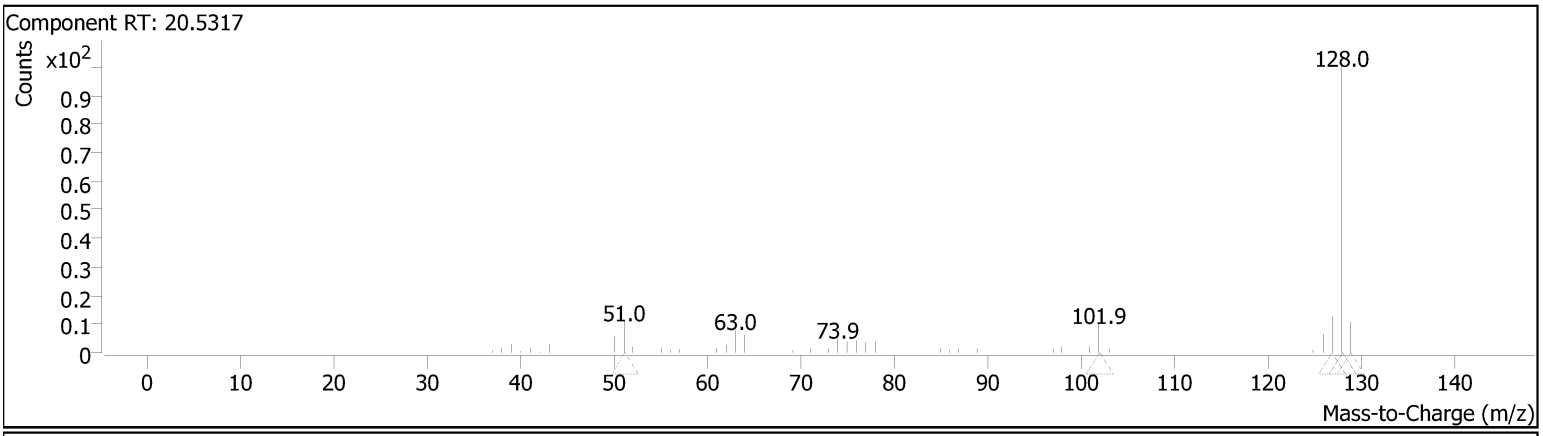



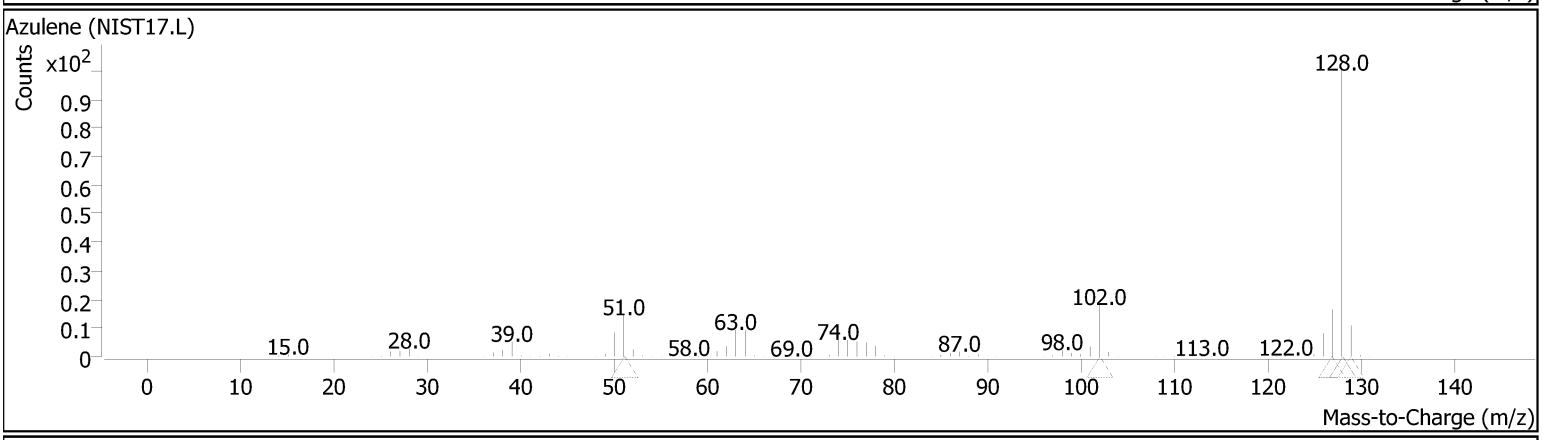



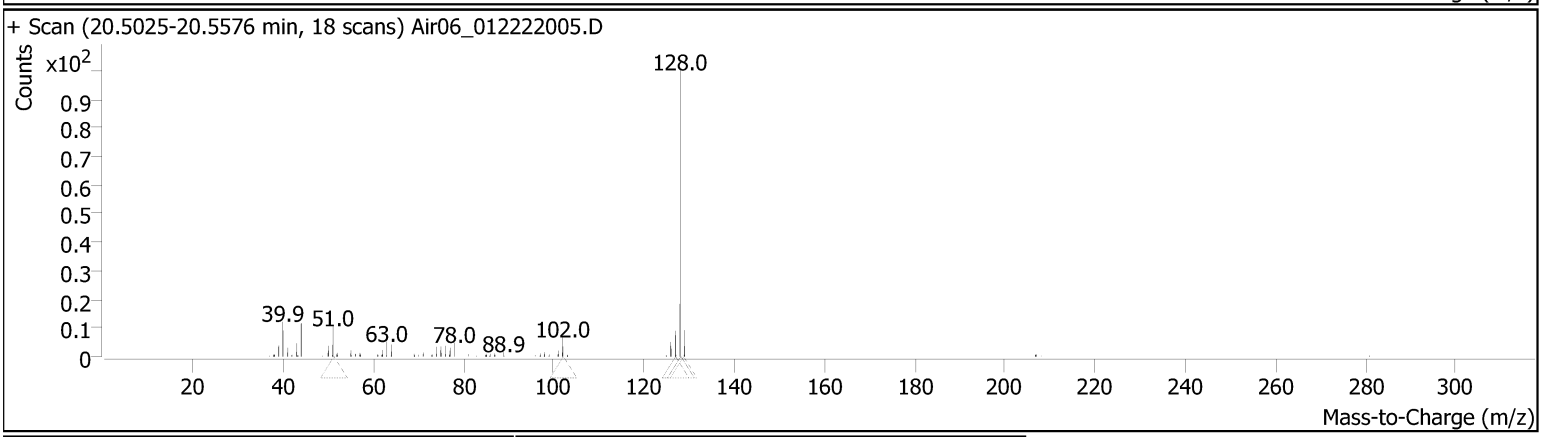



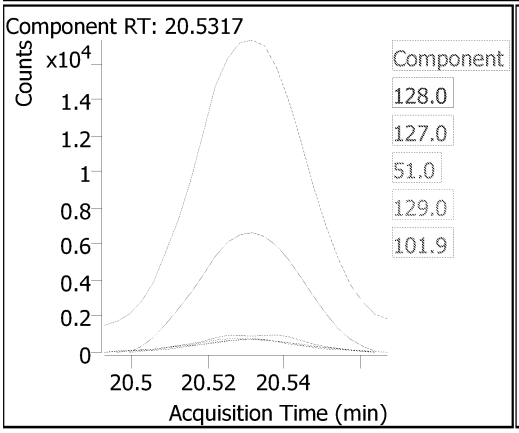



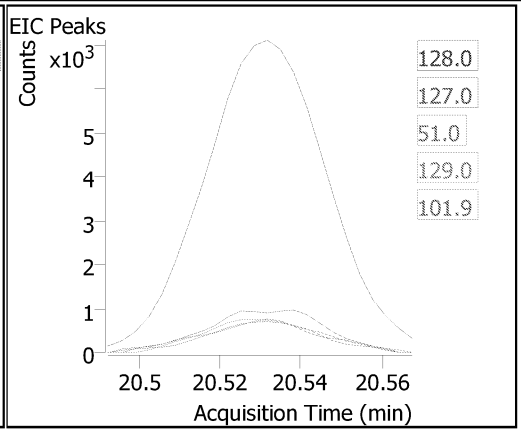
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.5317 | Azulene | 32270.2 | 94.6 | 275-51-4 | C10H8 | 0.07059 |

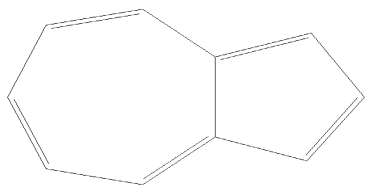


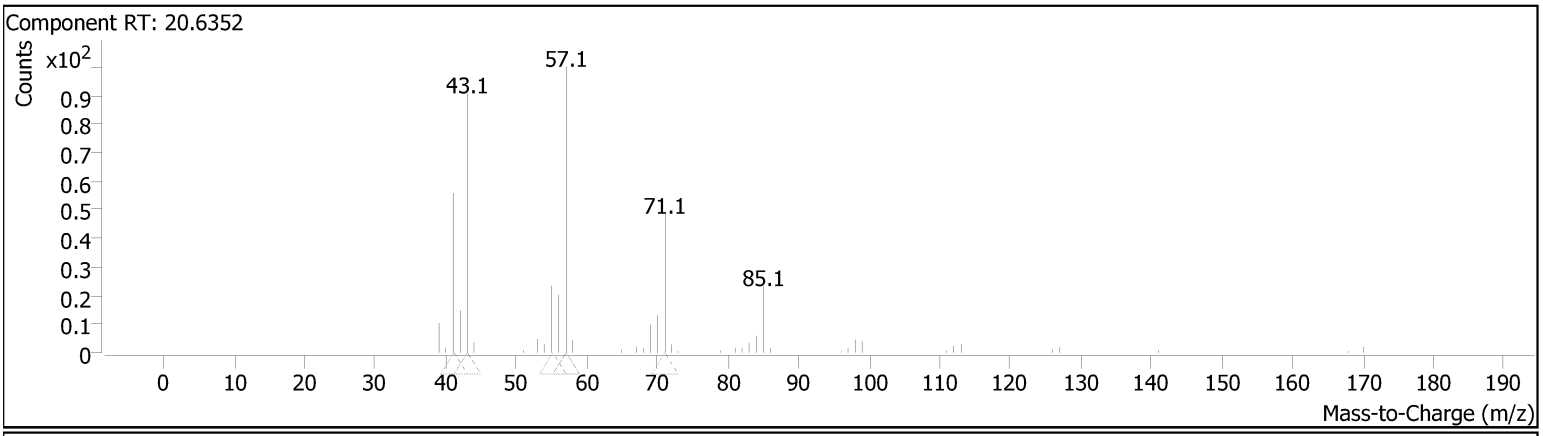



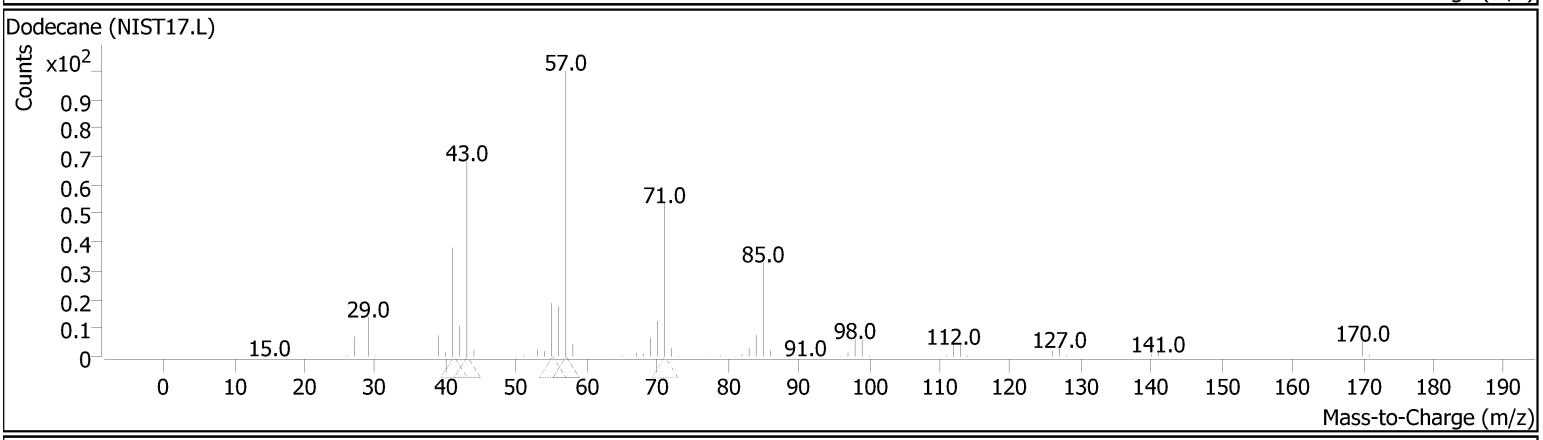



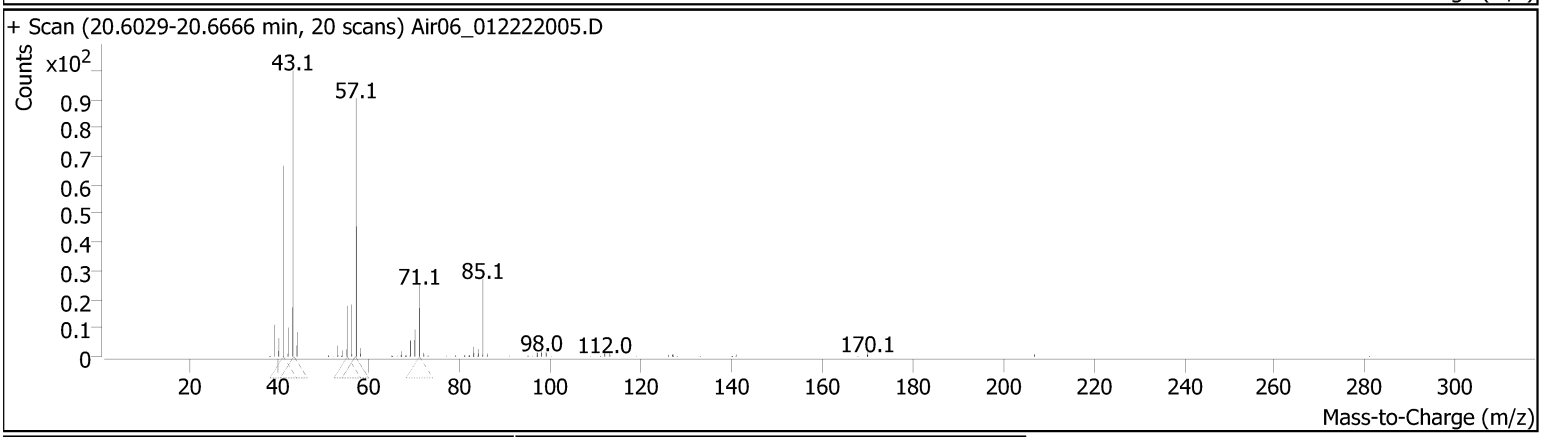



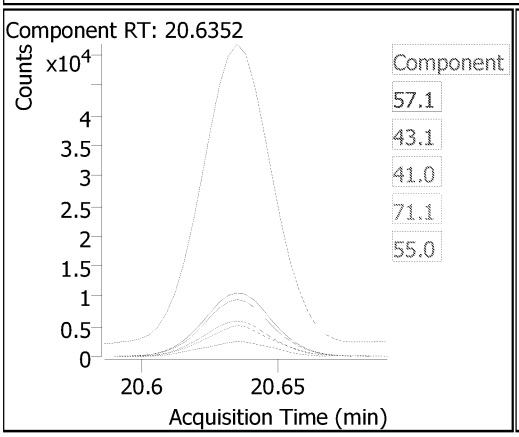



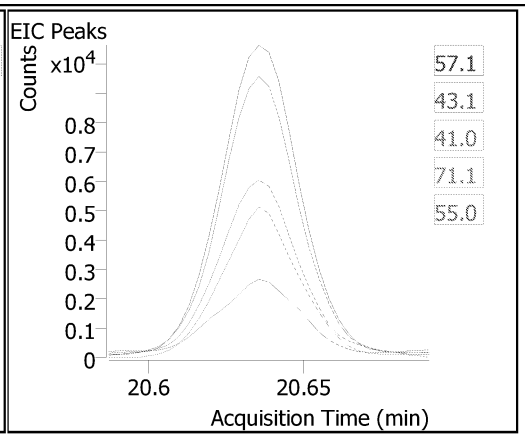
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.6352 | Dodecane | 93871.1 | 95.9 | 112-40-3 | C12H26 | 0.2053 |



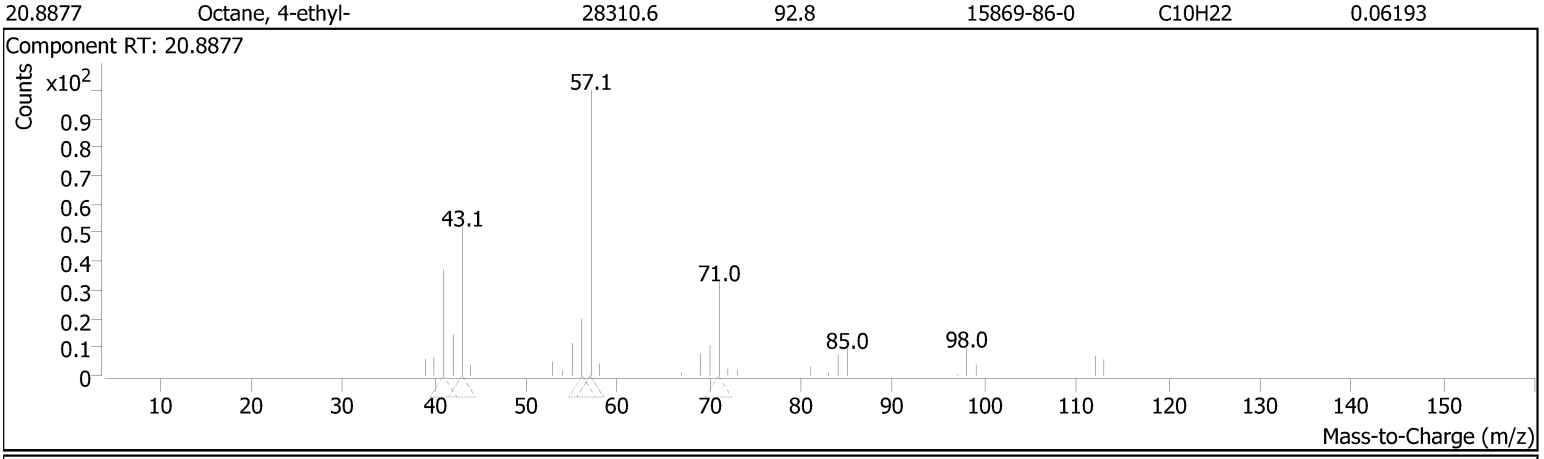



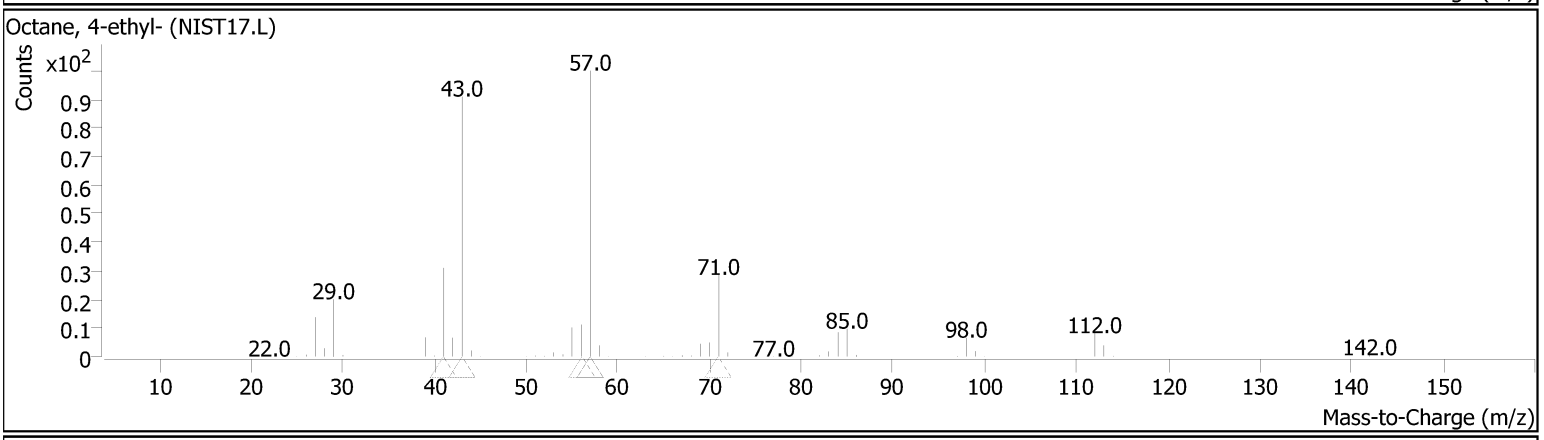



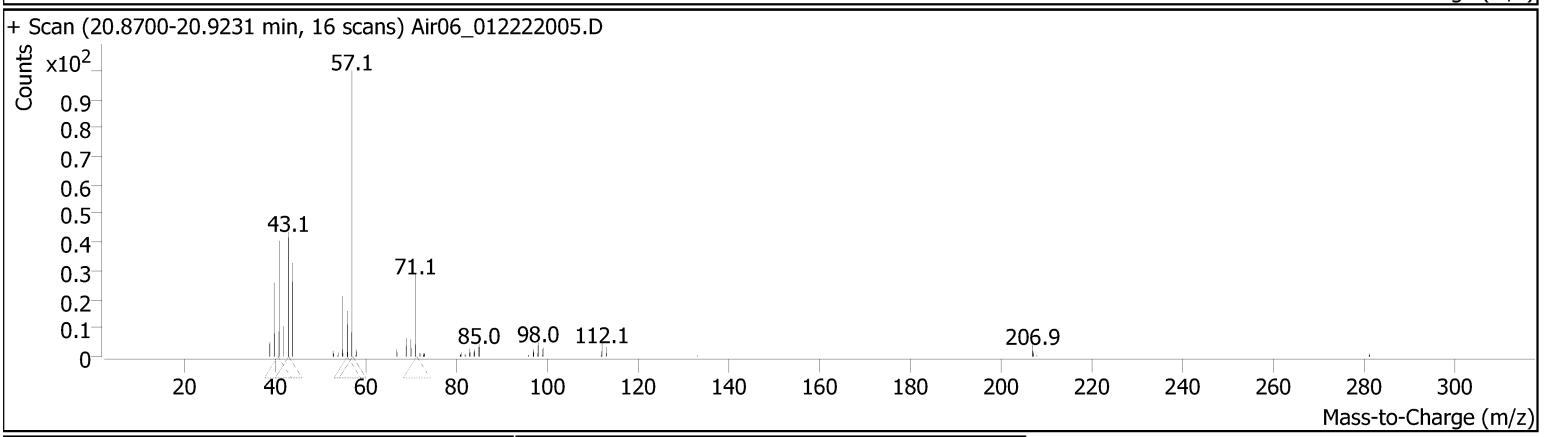



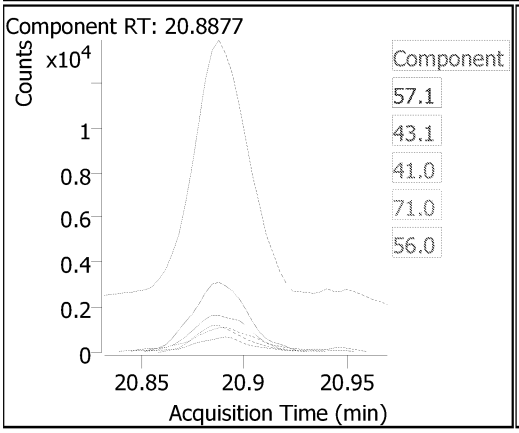


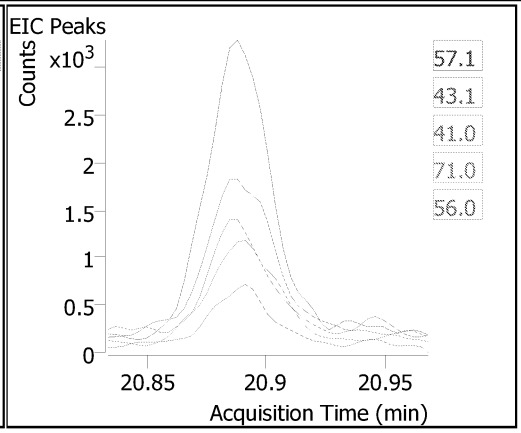

| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 20.8877 | Octane, 4-ethyl- | 28310.6 | 92.8 | 15869-86-0 | C10H22 | 0.06193 |

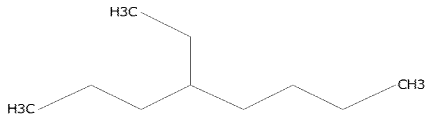


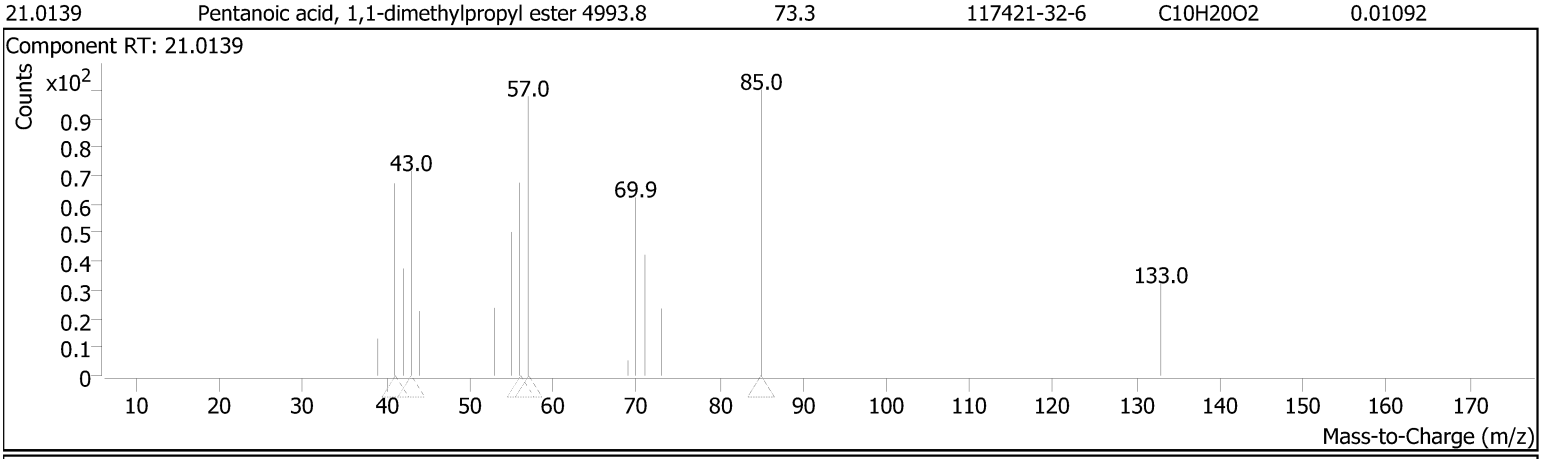



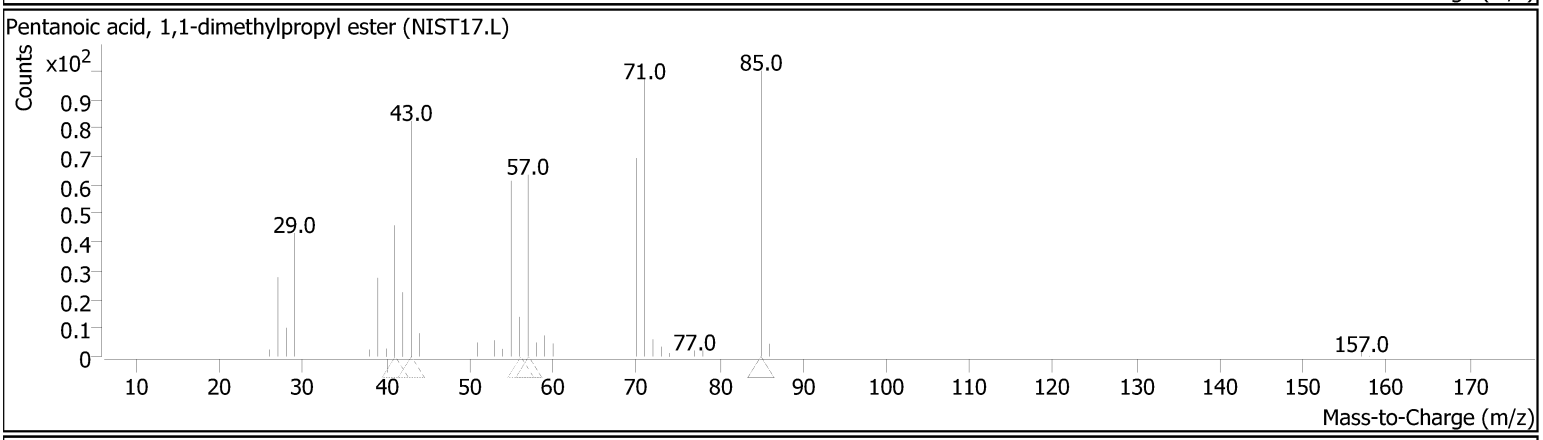



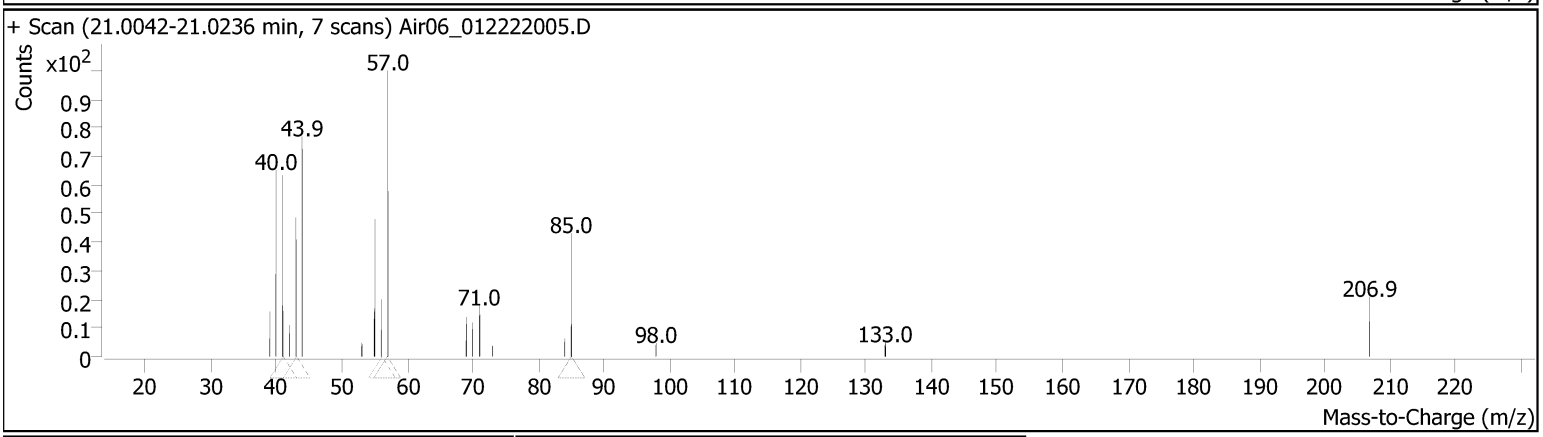
# Library Search Results - NonTarget Hits with Details

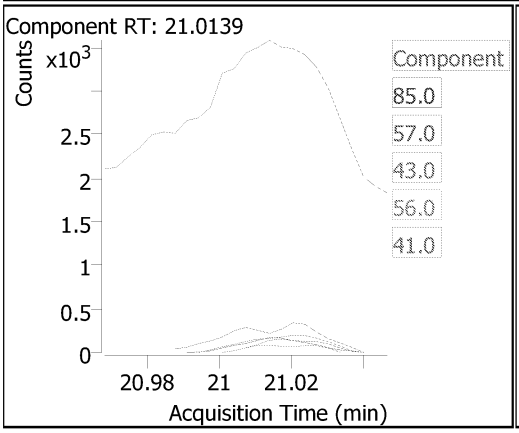
Agilent Technologies

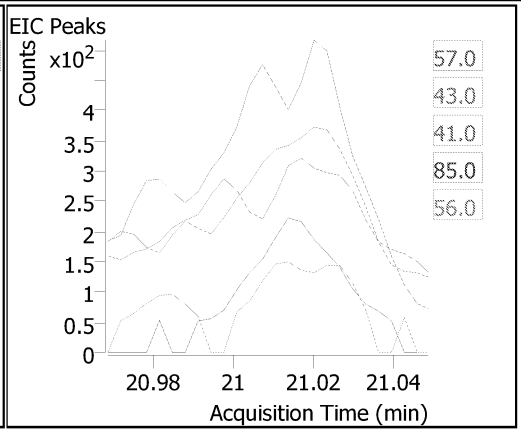
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.0139 | Pentanoic acid, 1,1-dimethylpropyl ester | 4993.8 | 73.3 | 117421-32-6 | C10H20O2 | 0.01092 |

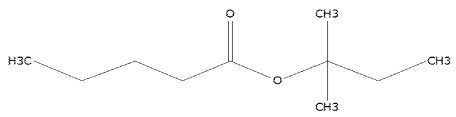


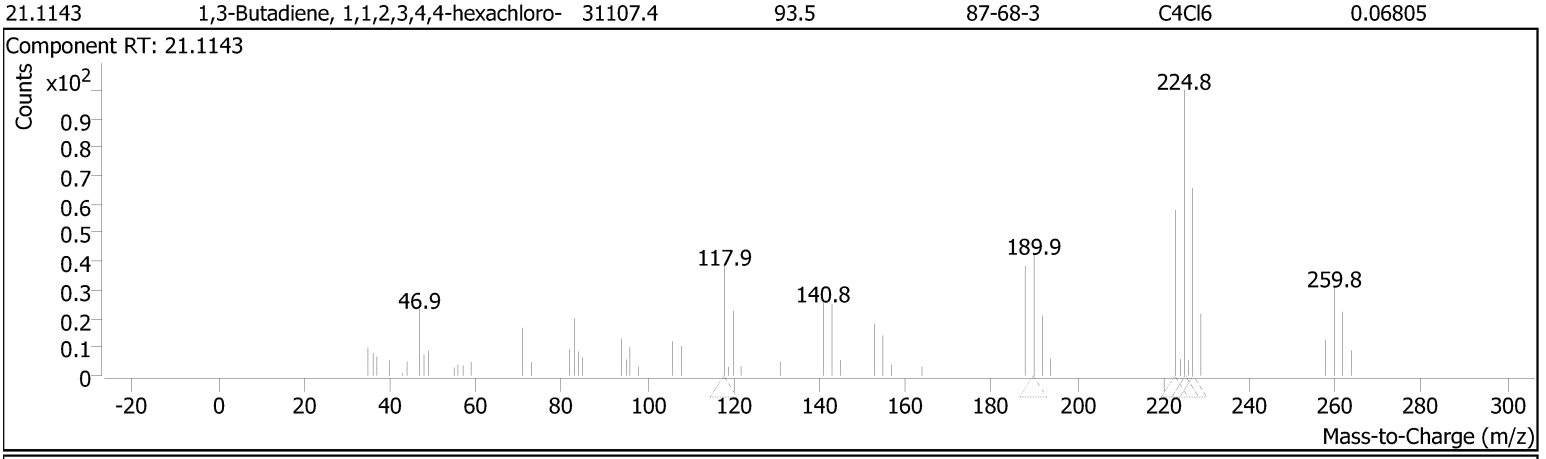



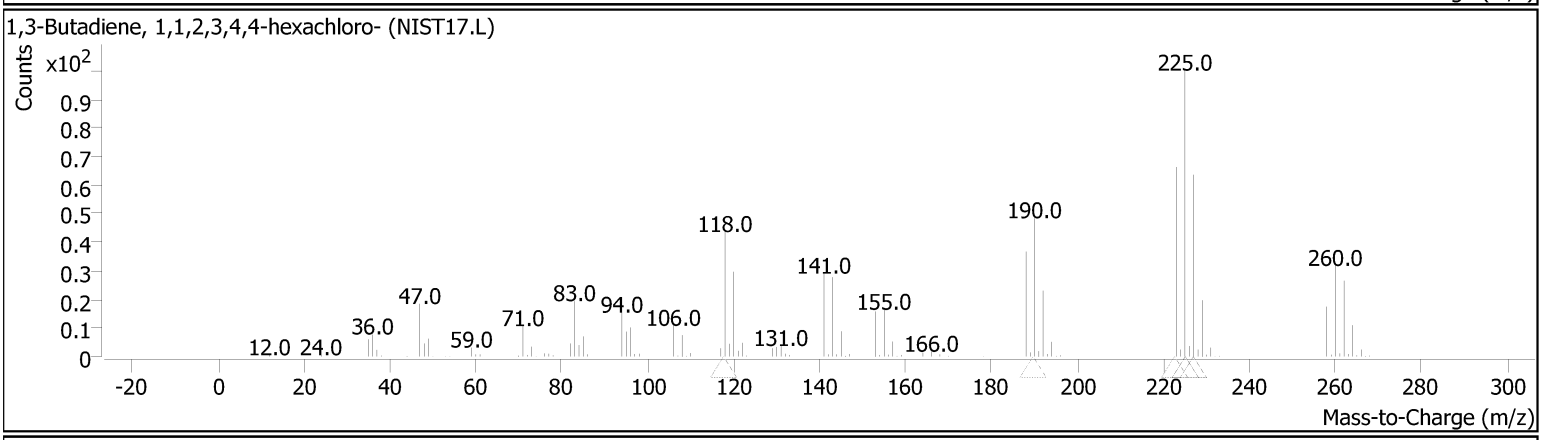



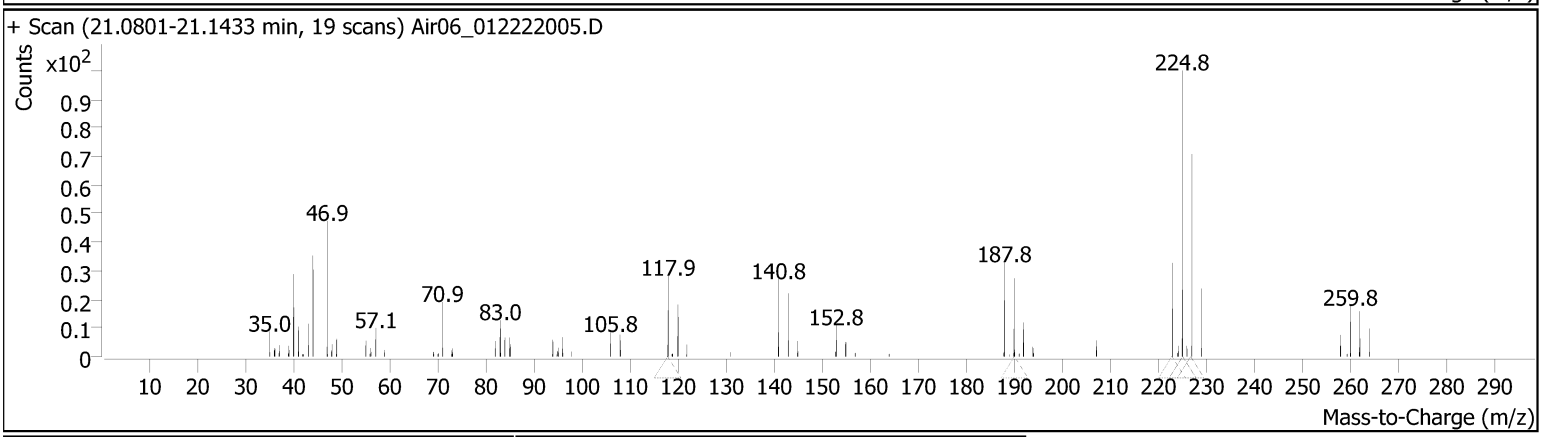



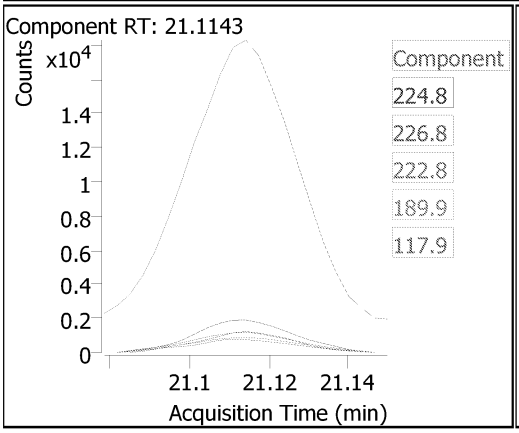



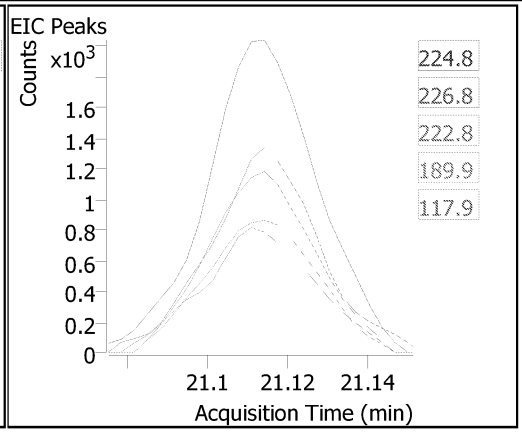
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.1143 | 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 31107.4 | 93.5 | 87-68-3 | C4Cl6 | 0.06805 |

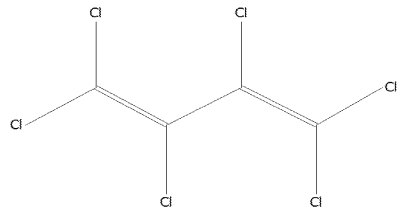


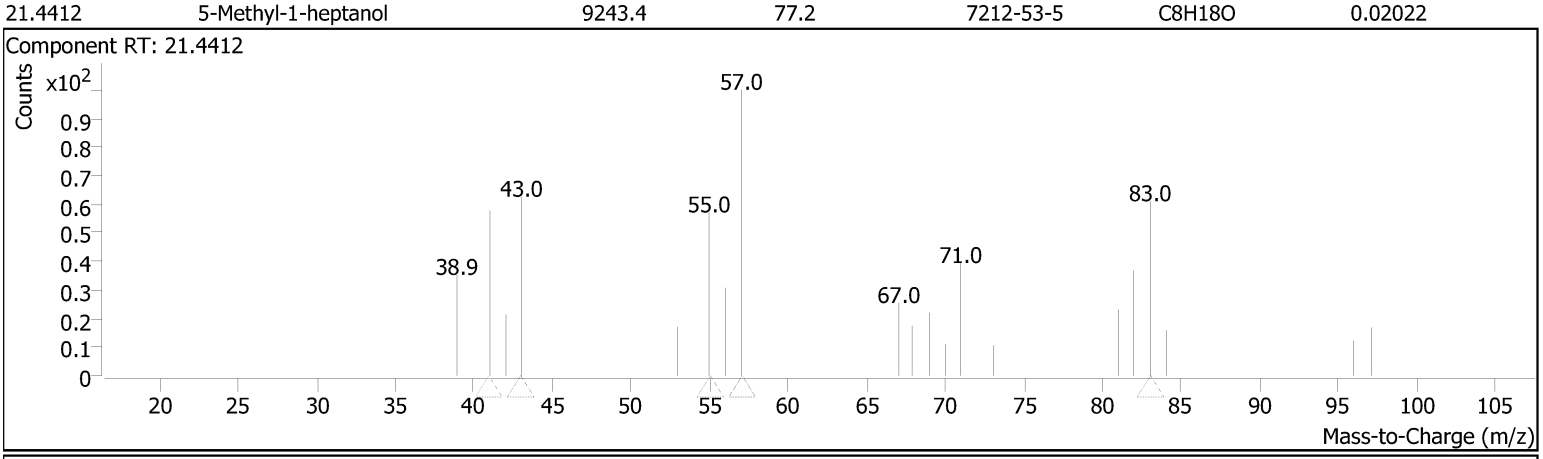



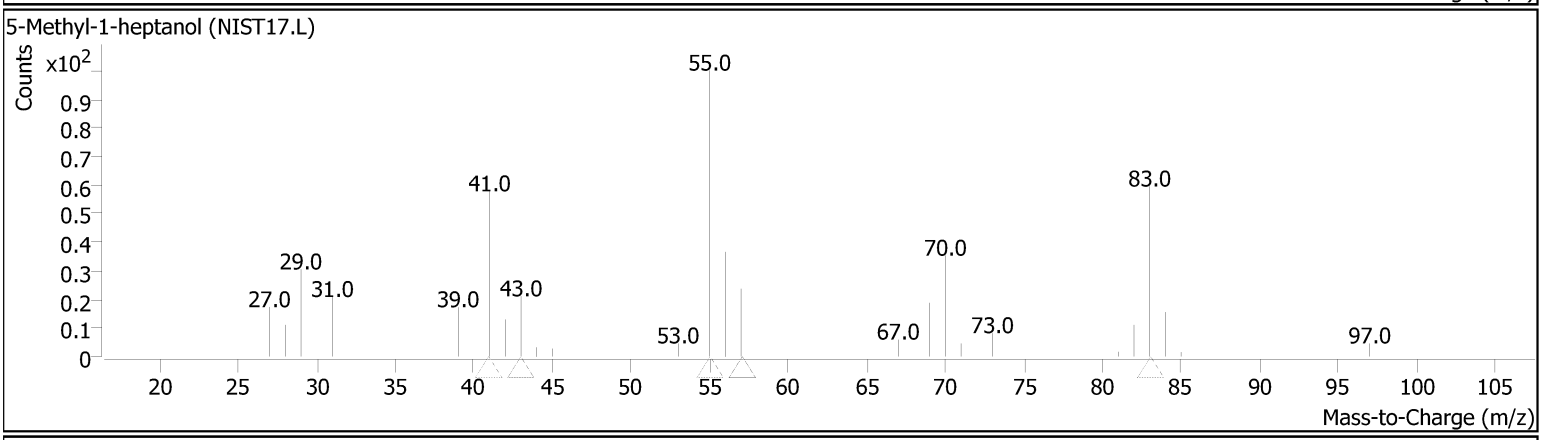



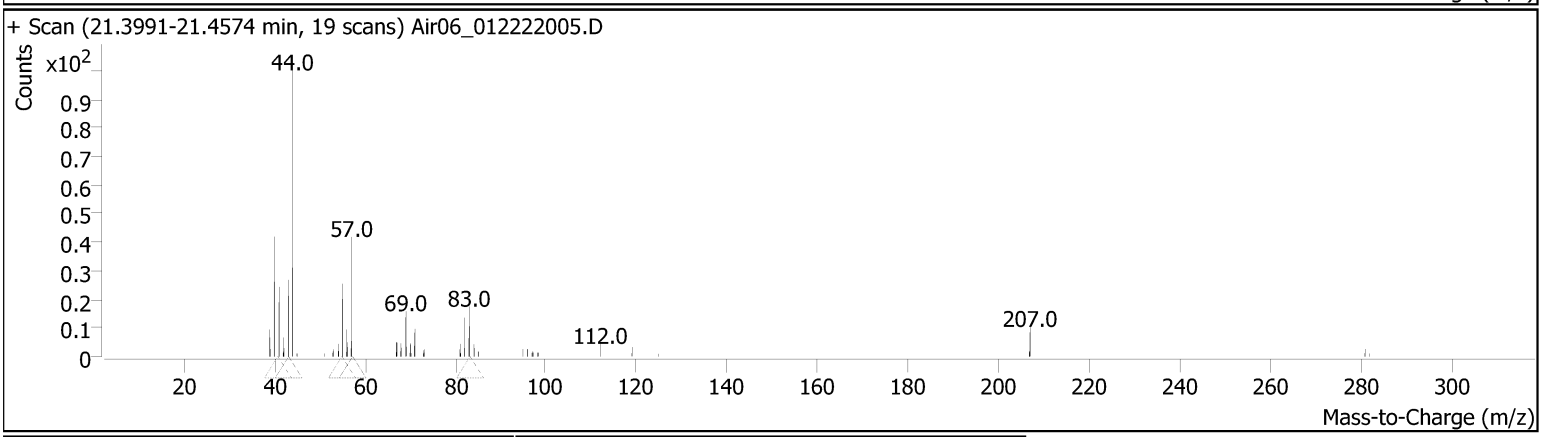



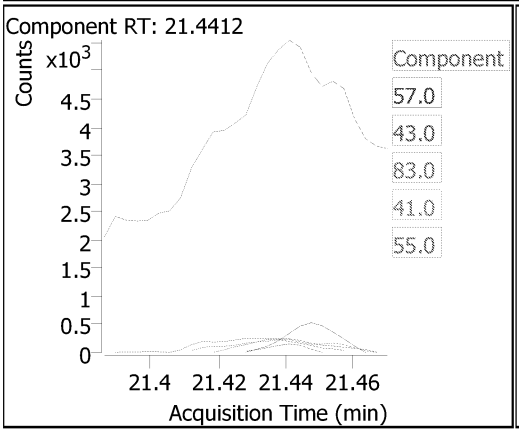



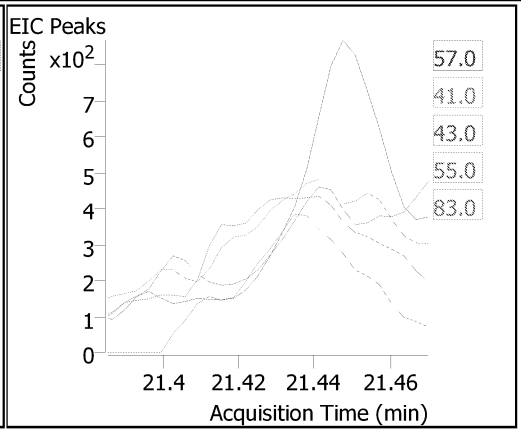
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.4412 | 5-Methyl-1-heptanol | 9243.4 | 77.2 | 7212-53-5 | C8H18O | 0.02022 |

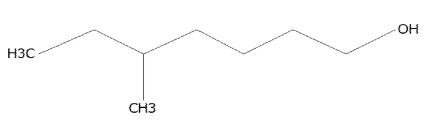


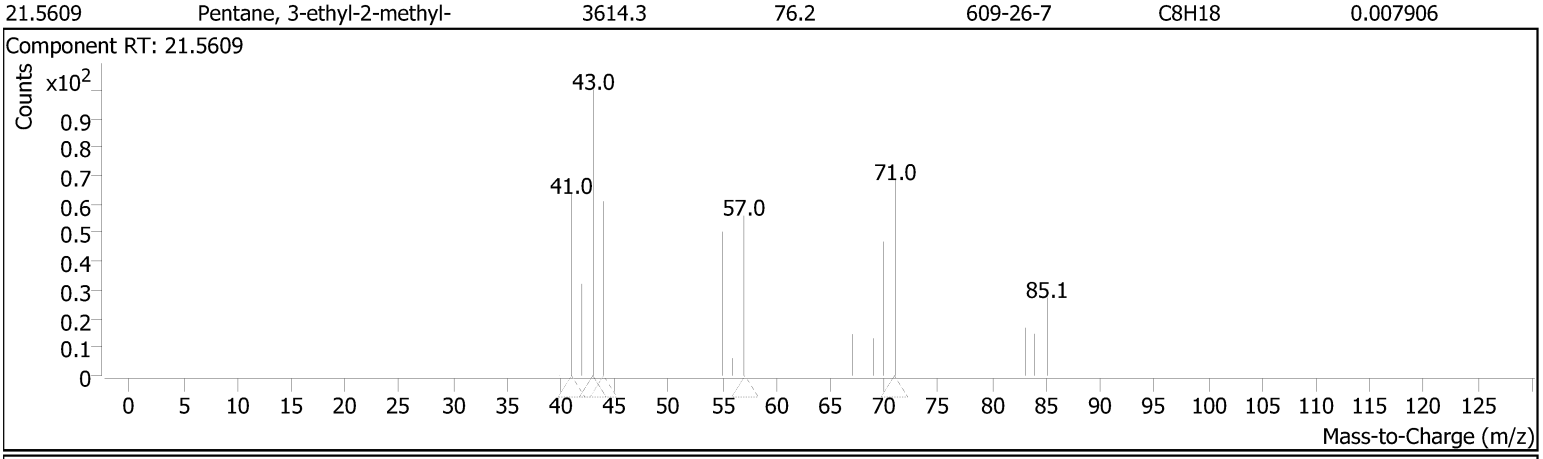



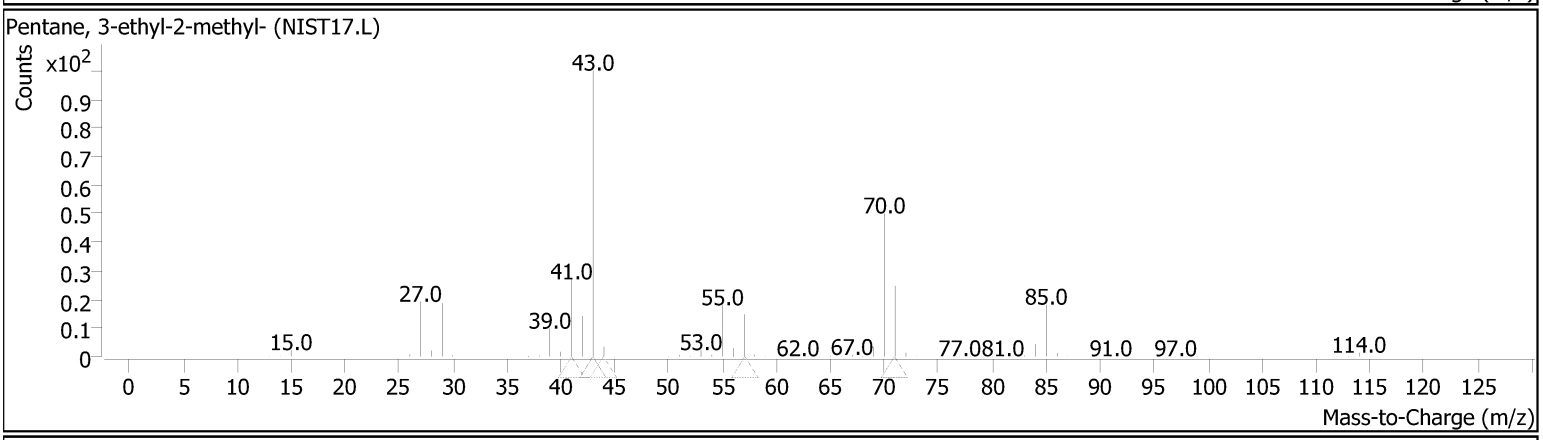



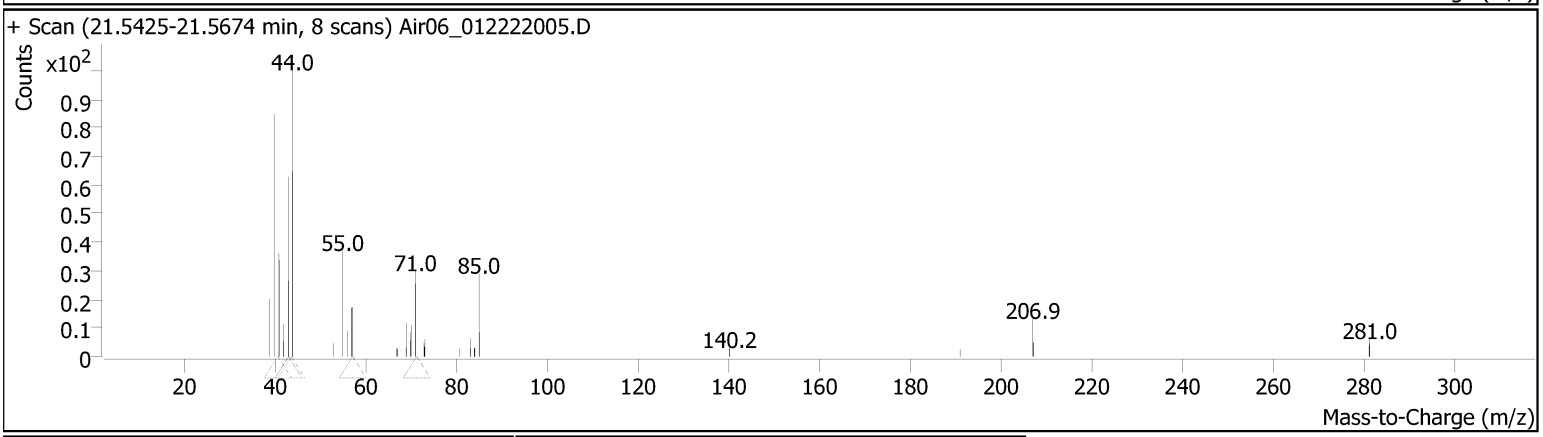



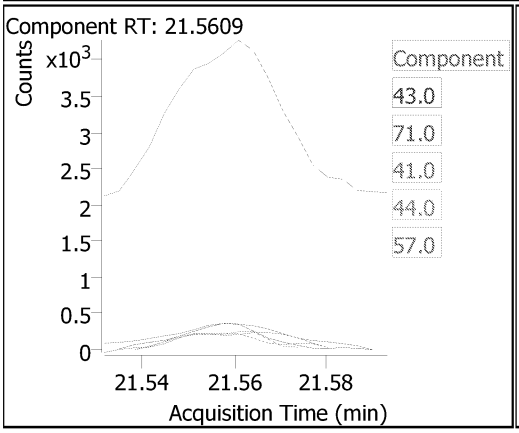



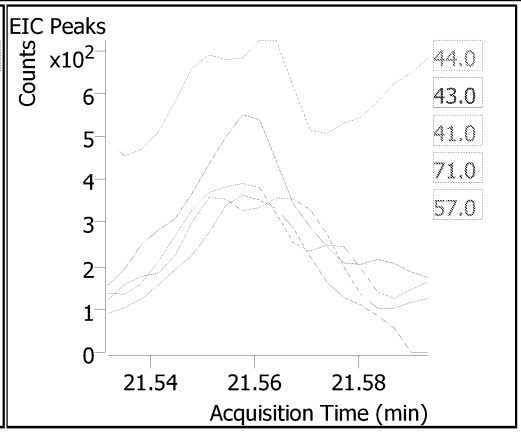
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.5609 | Pentane, 3-ethyl-2-methyl- | 3614.3 | 76.2 | 609-26-7 | C8H18 | 0.007906 |

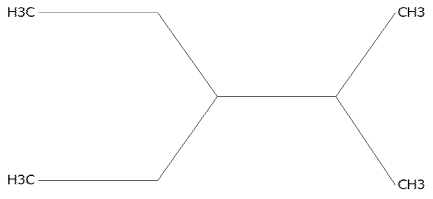


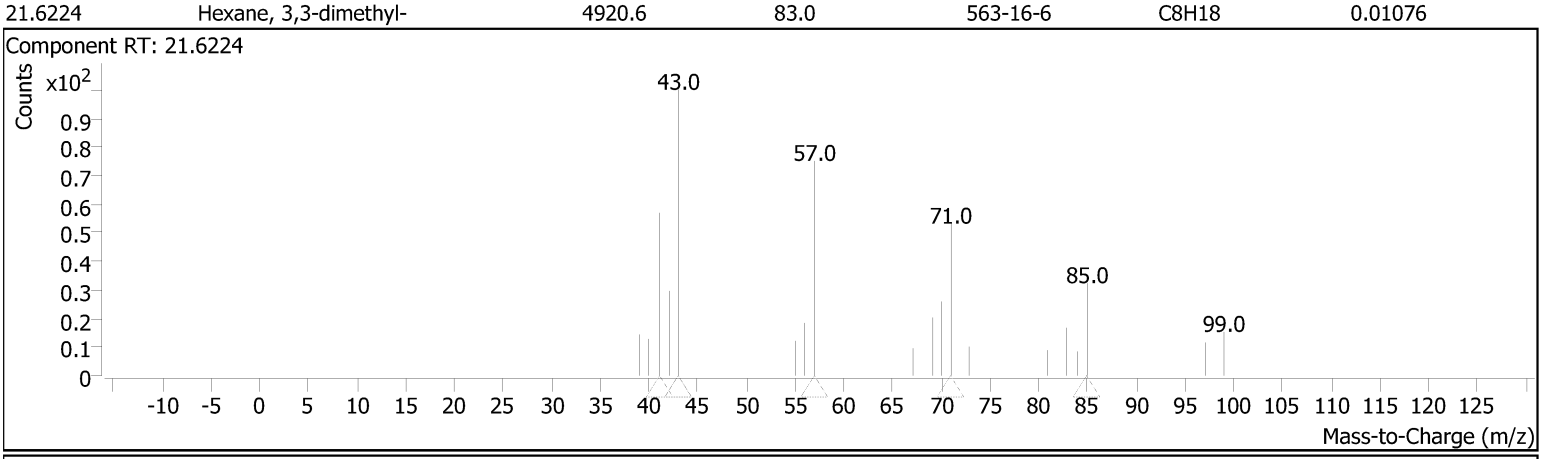



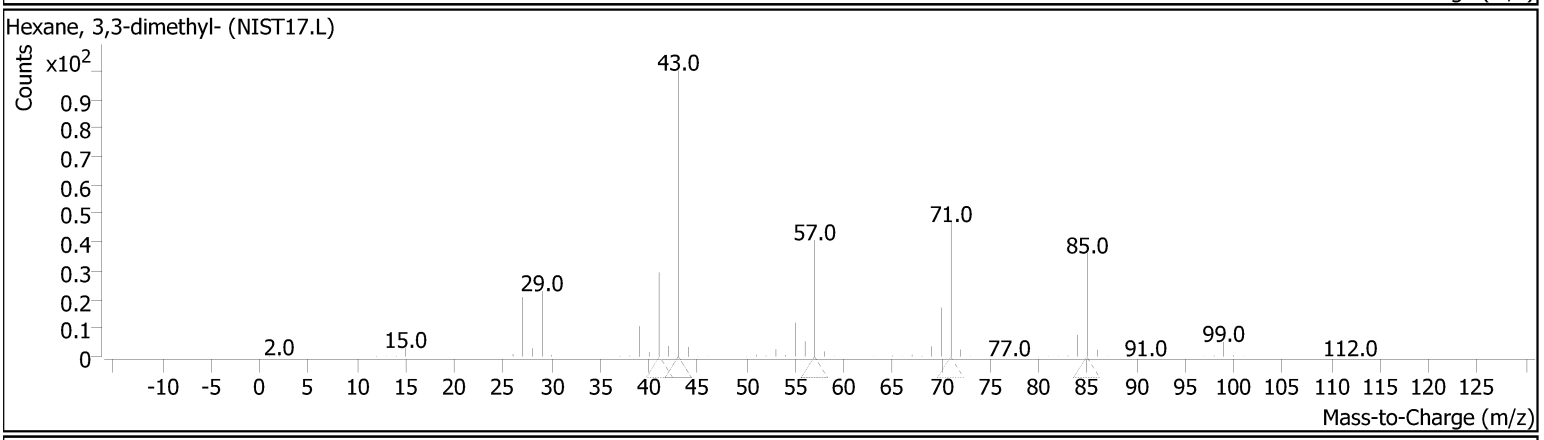



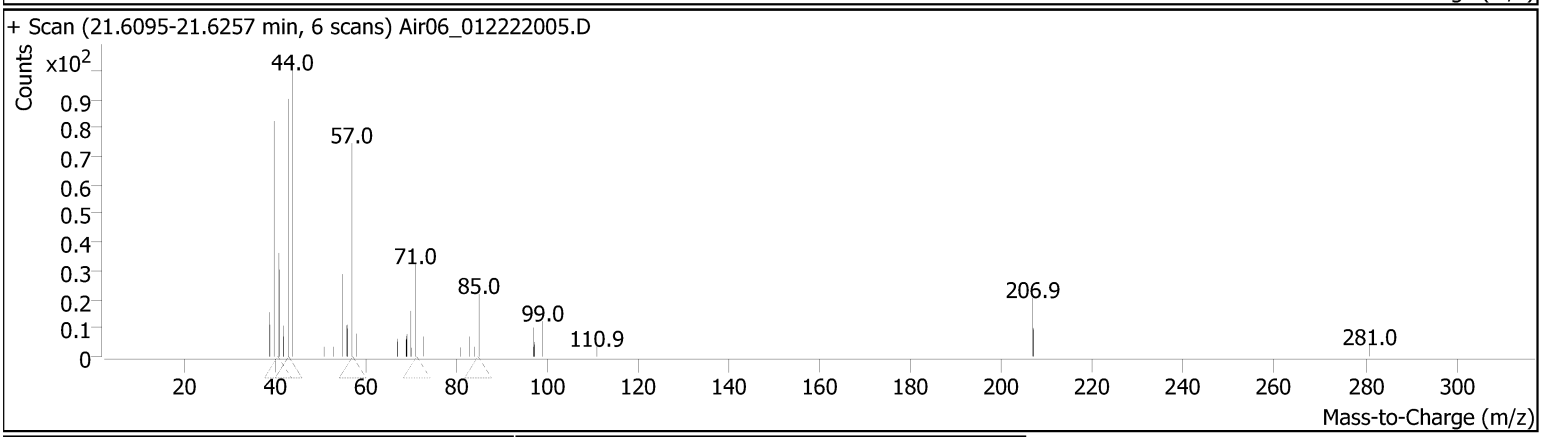



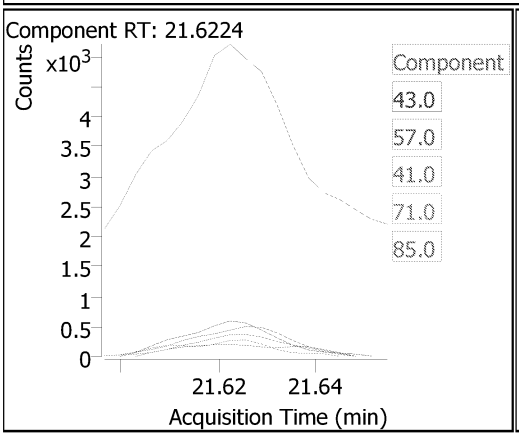



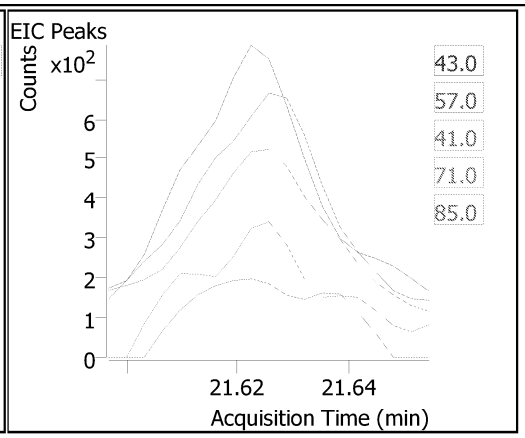
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.6224 | Hexane, 3,3-dimethyl- | 4920.6 | 83.0 | 563-16-6 | C8H18 | 0.01076 |

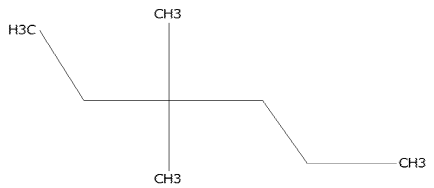


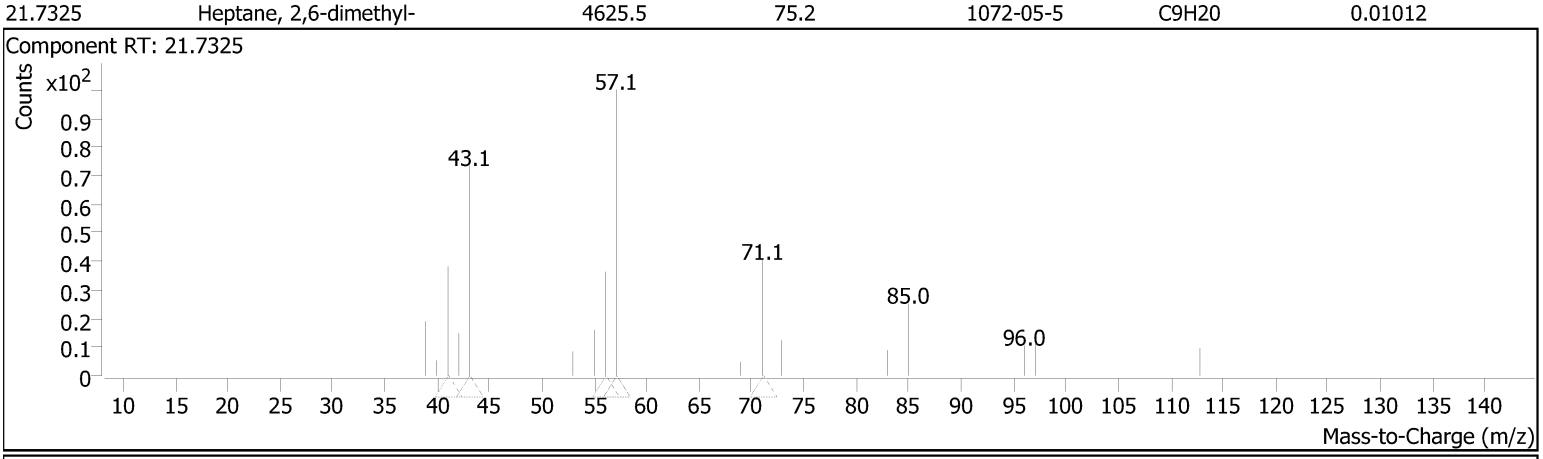



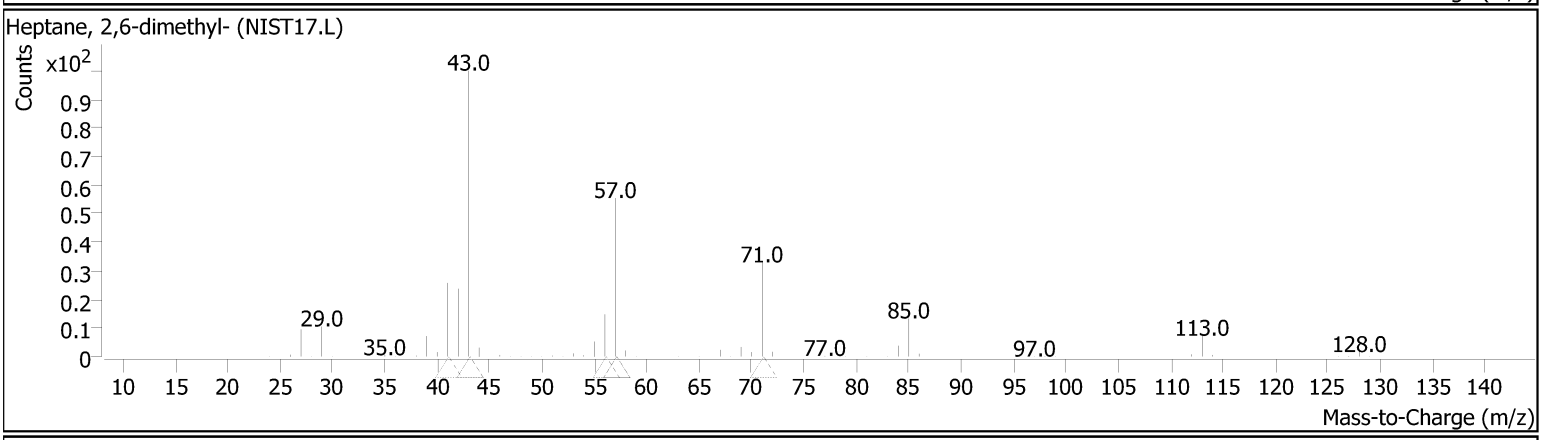



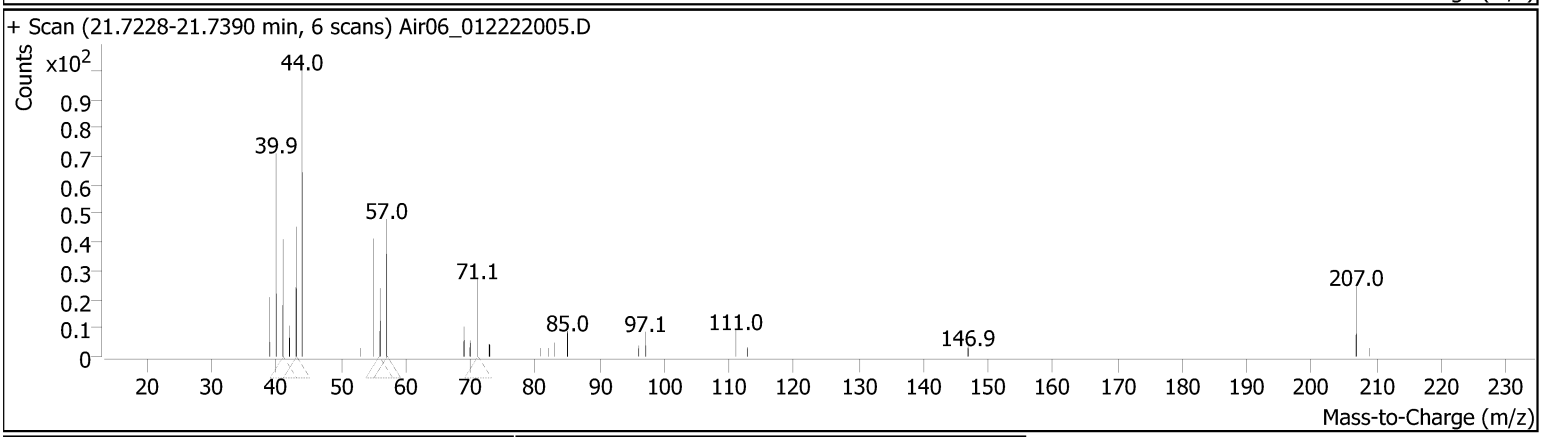



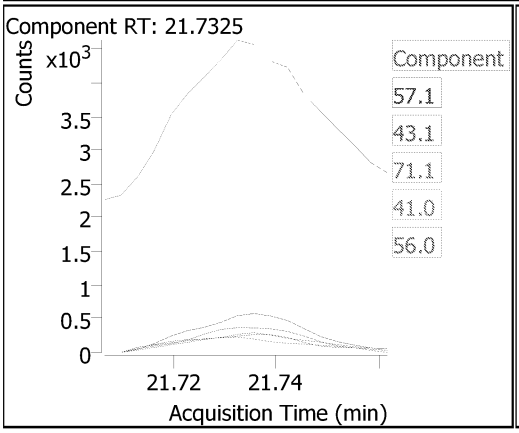



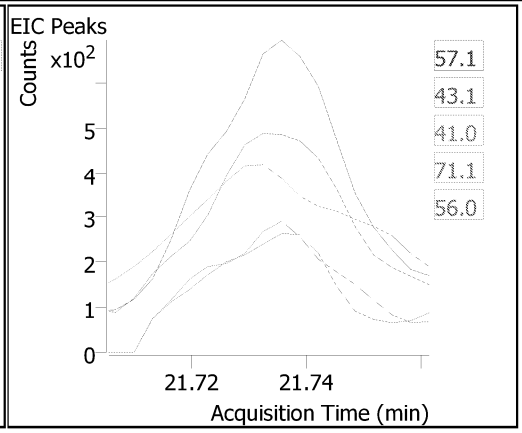
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7325 | Heptane, 2,6-dimethyl- | 4625.5 | 75.2 | 1072-05-5 | C9H20 | 0.01012 |

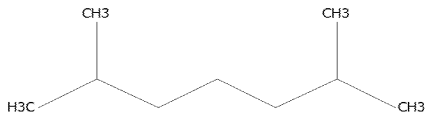


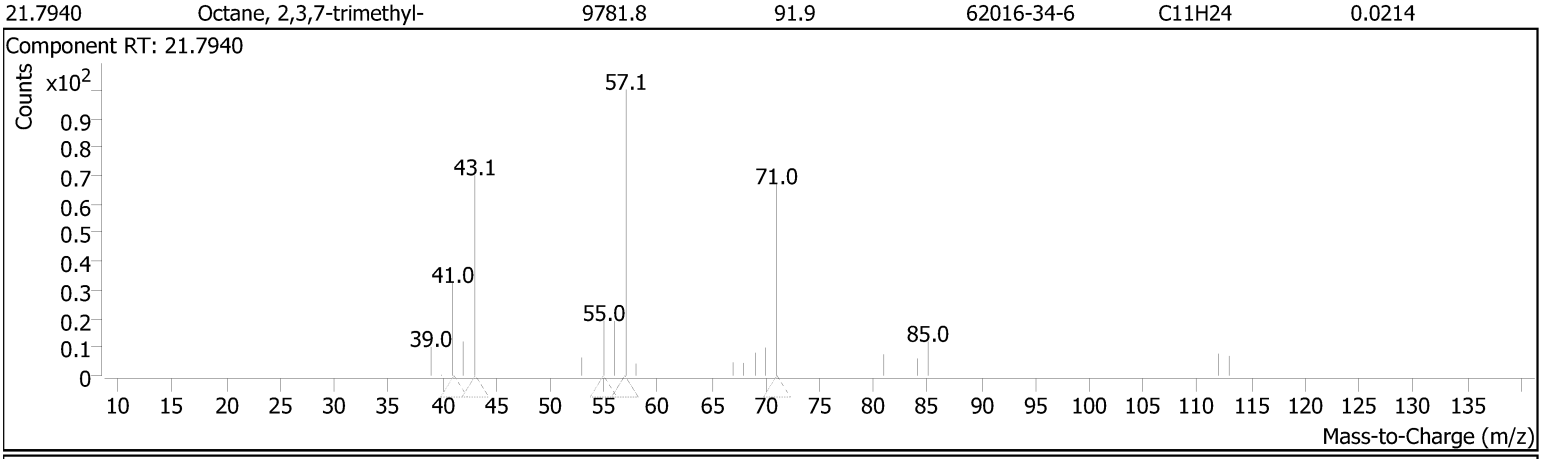



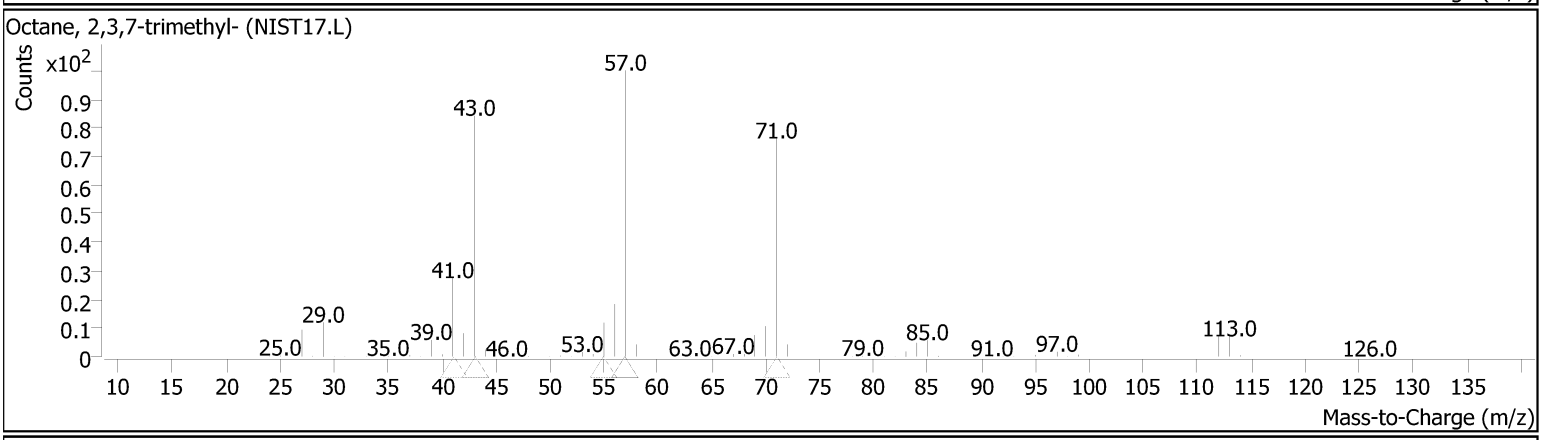



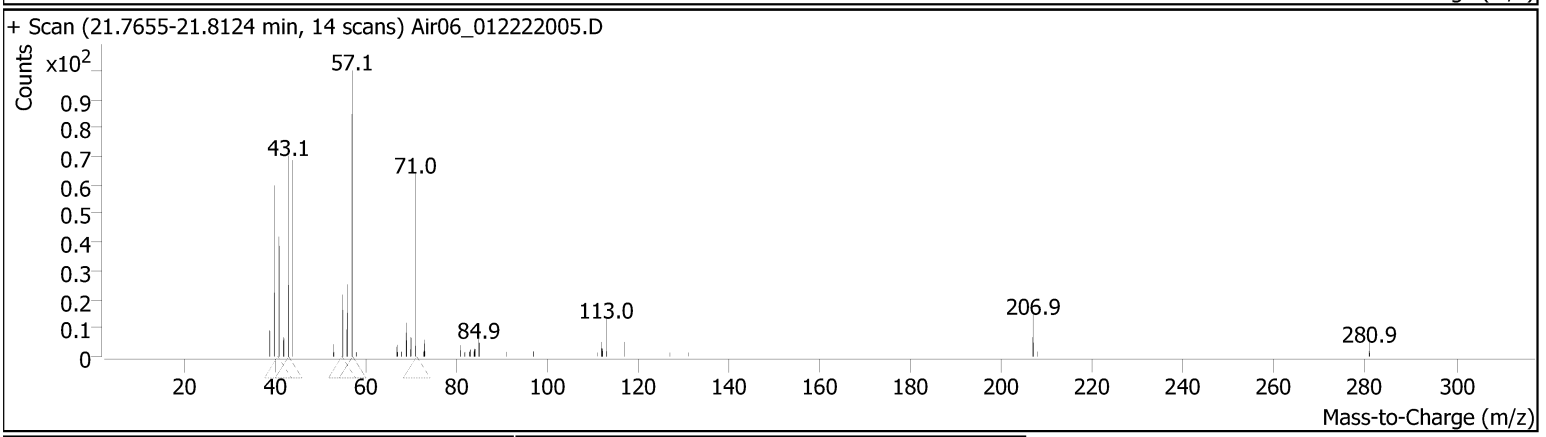
# Library Search Results - NonTarget Hits with Details

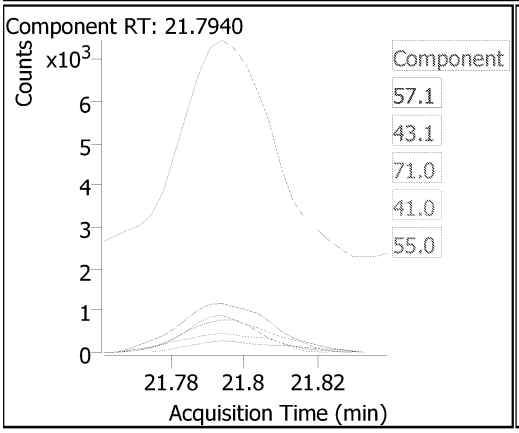
Agilent Technologies

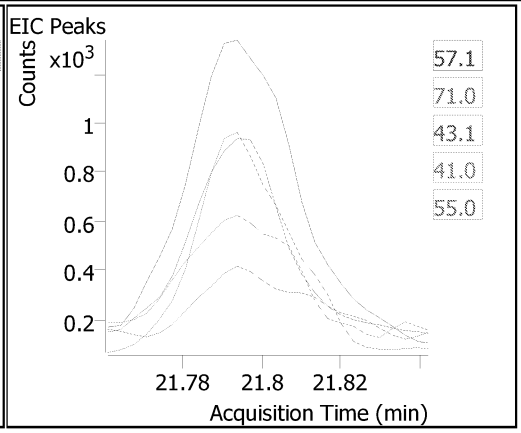
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 21.7940 | Octane, 2,3,7-trimethyl- | 9781.8 | 91.9 | 62016-34-6 | C11H24 | 0.0214 |

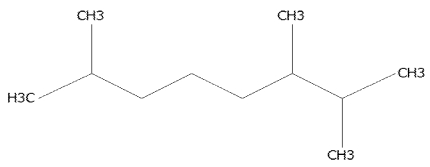


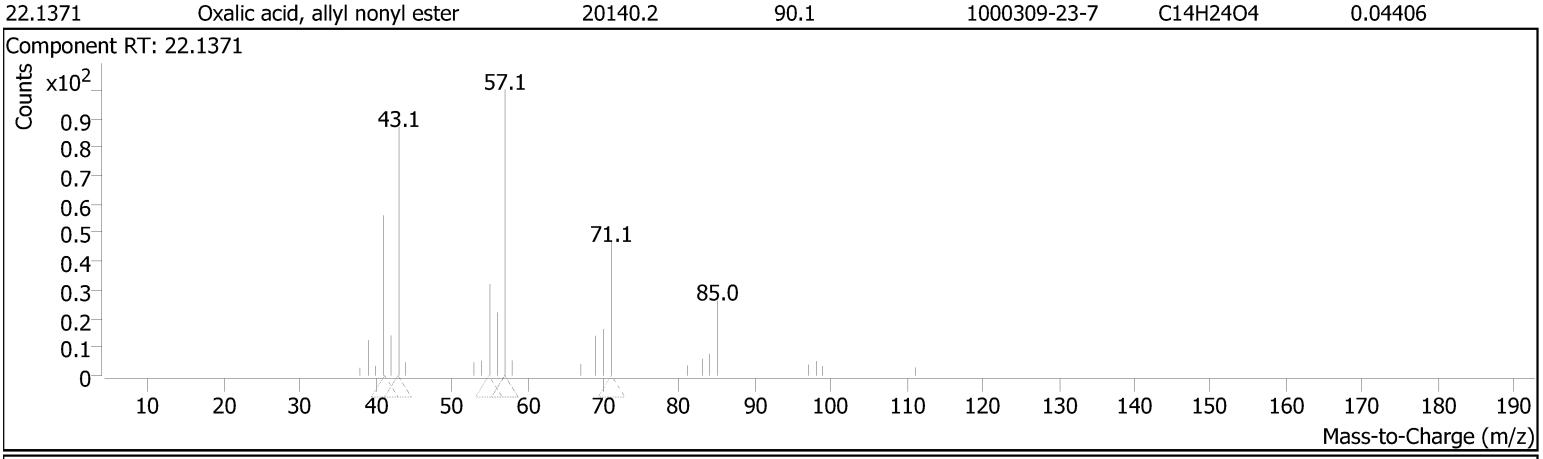



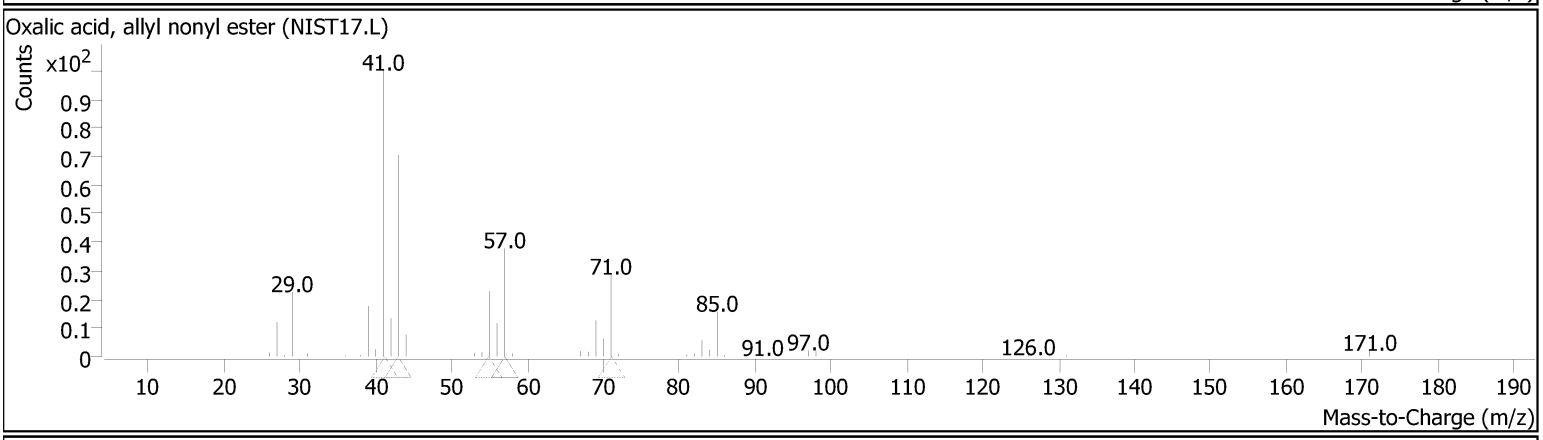



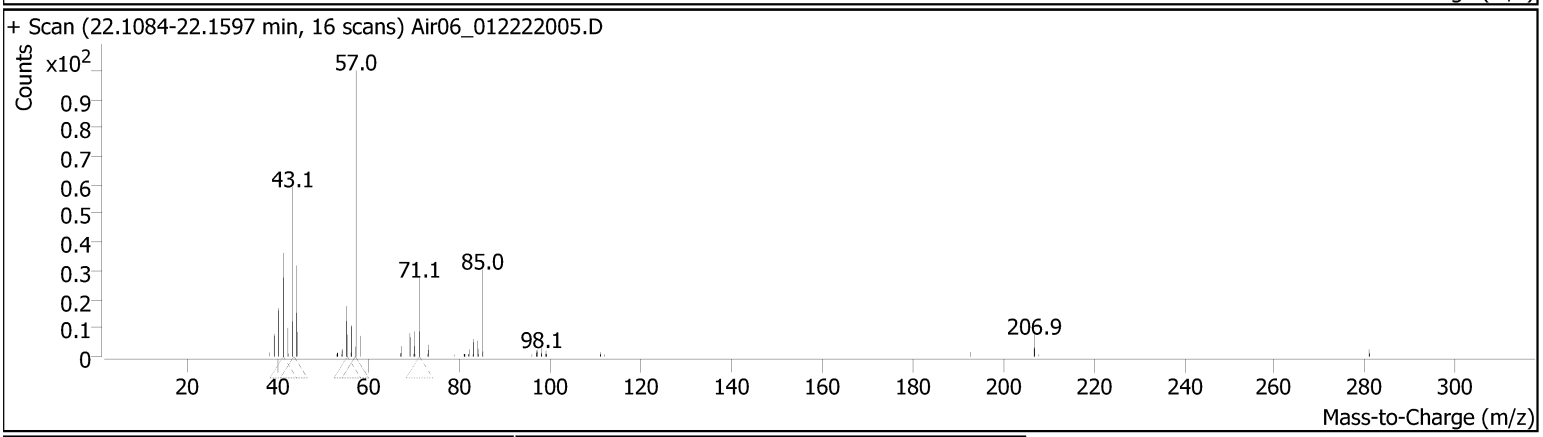



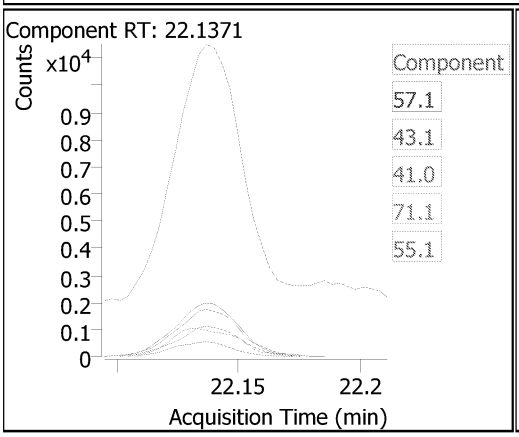



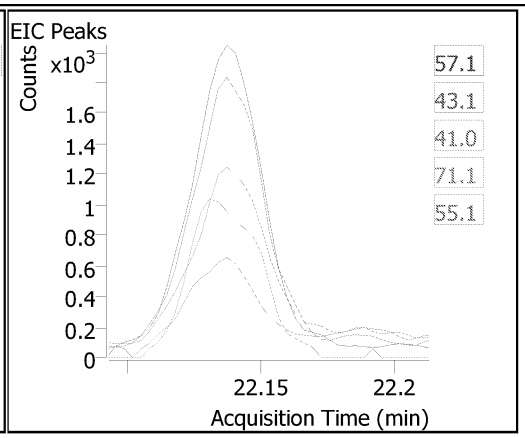
| Component RT | Compound Name | Component Area | Match Factor | CAS# | Formula | Estimated Conc. |
|---|---|---|---|---|---|---|
| 22.1371 | Oxalic acid, allyl nonyl ester | 20140.2 | 90.1 | 1000309-23-7 | C14H24O4 | 0.04406 |

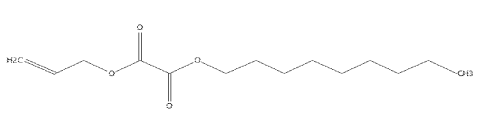


# ENTHALPY SPIKE USER REPORT FOR 456991 MSAIR Air
## EPA TO-15

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Time : 21-JAN-2022 11:43
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Units : nL/L

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Matrix : Air
Batch : 282262
Time : 21-JAN-2022 12:29
Cal : 372007975001

| Analyte | Spiked | CCV/BS Raw | CCV/BS Result | %Rec | BSD Raw | BSD Result | %Rec | Limits | RPD | Lim | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Freon 12 | 10.00 | 10.60 | 10.60 | 106 | 10.58 | 10.58 | 106 | 70-130 | 0 | 30 | u |
| Freon 114 | 10.00 | 9.756 | 9.756 | 98 | 9.773 | 9.773 | 98 | 70-130 | 0 | 30 | u |
| Chloromethane | 10.00 | 10.79 | 10.79 | 108 | 10.67 | 10.67 | 107 | 70-130 | 1 | 30 | u |
| Vinyl Chloride | 10.00 | 10.01 | 10.01 | 100 | 9.944 | 9.944 | 99 | 70-130 | 1 | 30 | u |
| Bromomethane | 10.00 | 9.870 | 9.870 | 99 | 9.912 | 9.912 | 99 | 70-130 | 0 | 30 | u |
| Chloroethane | 10.00 | 10.00 | 10.00 | 100 | 9.986 | 9.986 | 100 | 70-130 | 0 | 30 | u |
| Trichlorofluoromethane | 10.00 | 10.43 | 10.43 | 104 | 10.47 | 10.47 | 105 | 70-130 | 0 | 30 | u |
| 1,1-Dichloroethene | 10.00 | 10.29 | 10.29 | 103 | 10.31 | 10.31 | 103 | 70-130 | 0 | 30 | u |
| Freon 113 | 10.00 | 9.941 | 9.941 | 99 | 9.905 | 9.905 | 99 | 70-130 | 0 | 30 | u |
| Acetone | 10.00 | 10.45 | 10.45 | 105 | 10.36 | 10.36 | 104 | 70-130 | 1 | 30 | u |
| Carbon Disulfide | 10.00 | 9.923 | 9.923 | 99 | 9.927 | 9.927 | 99 | 70-130 | 0 | 30 | u |
| Isopropanol (IPA) | 10.00 | 11.44 | 11.44 | 114 | 11.42 | 11.42 | 114 | 70-130 | 0 | 30 | u |
| Methylene Chloride | 10.00 | 9.498 | 9.498 | 95 | 9.498 | 9.498 | 95 | 70-130 | 0 | 30 | u |
| trans-1,2-Dichloroethene | 10.00 | 10.02 | 10.02 | 100 | 9.989 | 9.989 | 100 | 70-130 | 0 | 30 | u |
| MTBE | 10.00 | 10.22 | 10.22 | 102 | 10.22 | 10.22 | 102 | 70-130 | 0 | 30 | u |
| n-Hexane | 10.00 | 9.923 | 9.923 | 99 | 9.883 | 9.883 | 99 | 70-130 | 0 | 30 | u |
| 1,1-Dichloroethane | 10.00 | 10.12 | 10.12 | 101 | 10.08 | 10.08 | 101 | 70-130 | 0 | 30 | u |
| Vinyl Acetate | 10.00 | 9.602 | 9.602 | 96 | 9.642 | 9.642 | 96 | 70-130 | 0 | 30 | u |
| cis-1,2-Dichloroethene | 10.00 | 10.07 | 10.07 | 101 | 10.08 | 10.08 | 101 | 70-130 | 0 | 30 | u |
| 2-Butanone | 10.00 | 10.61 | 10.61 | 106 | 10.60 | 10.60 | 106 | 70-130 | 0 | 30 | u |
| Chloroform | 10.00 | 10.25 | 10.25 | 102 | 10.23 | 10.23 | 102 | 70-130 | 0 | 30 | u |
| 1,1,1-Trichloroethane | 10.00 | 10.30 | 10.30 | 103 | 10.31 | 10.31 | 103 | 70-130 | 0 | 30 | u |
| Carbon Tetrachloride | 10.00 | 10.25 | 10.25 | 102 | 10.33 | 10.33 | 103 | 70-130 | 1 | 30 | u |
| Benzene | 10.00 | 9.714 | 9.714 | 97 | 9.690 | 9.690 | 97 | 70-130 | 0 | 30 | u |
| 1,2-Dichloroethane | 10.00 | 10.45 | 10.45 | 104 | 10.39 | 10.39 | 104 | 70-130 | 1 | 30 | u |
| Trichloroethene | 10.00 | 8.832 | 8.832 | 88 | 8.734 | 8.734 | 87 | 70-130 | 1 | 30 | u |
| 1,2-Dichloropropane | 10.00 | 9.187 | 9.187 | 92 | 9.201 | 9.201 | 92 | 70-130 | 0 | 30 | u |
| Bromodichloromethane | 10.00 | 9.441 | 9.441 | 94 | 9.465 | 9.465 | 95 | 70-130 | 0 | 30 | u |
| cis-1,3-Dichloropropene | 10.00 | 8.759 | 8.759 | 88 | 8.772 | 8.772 | 88 | 70-130 | 0 | 30 | u |
| 4-Methyl-2-Pentanone | 10.00 | 9.039 | 9.039 | 90 | 9.018 | 9.018 | 90 | 70-130 | 0 | 30 | u |
| Toluene | 10.00 | 8.855 | 8.855 | 89 | 8.823 | 8.823 | 88 | 70-130 | 0 | 30 | u |
| trans-1,3-Dichloropropene | 10.00 | 8.866 | 8.866 | 89 | 8.873 | 8.873 | 89 | 70-130 | 0 | 30 | u |
| 1,1,2-Trichloroethane | 10.00 | 9.041 | 9.041 | 90 | 9.069 | 9.069 | 91 | 70-130 | 0 | 30 | u |
| Tetrachloroethene | 10.00 | 8.507 | 8.507 | 85 | 8.557 | 8.557 | 86 | 70-130 | 1 | 30 | u |
| 2-Hexanone | 10.00 | 9.227 | 9.227 | 92 | 9.235 | 9.235 | 92 | 70-130 | 0 | 30 | u |
| Dibromochloromethane | 10.00 | 9.192 | 9.192 | 92 | 9.192 | 9.192 | 92 | 70-130 | 0 | 30 | u |
| 1,2-Dibromoethane | 10.00 | 9.057 | 9.057 | 91 | 9.055 | 9.055 | 91 | 70-130 | 0 | 30 | u |
| Chlorobenzene | 10.00 | 9.356 | 9.356 | 94 | 9.296 | 9.296 | 93 | 70-130 | 1 | 30 | u |
| Ethylbenzene | 10.00 | 9.563 | 9.563 | 96 | 9.513 | 9.513 | 95 | 70-130 | 1 | 30 | u |
| m,p-Xylenes | 20.00 | 19.11 | 19.11 | 96 | 18.98 | 18.98 | 95 | 70-130 | 1 | 30 | u |

| Analyte | Spiked | CCV/BS Raw | CCV/BS Result | %Rec | BSD Raw | BSD Result | %Rec | Limits | RPD | Lim | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | 10.00 | 9.565 | 9.565 | 96 | 9.495 | 9.495 | 95 | 70-130 | 1 | 30 | u |
| Styrene | 10.00 | 9.298 | 9.298 | 93 | 9.202 | 9.202 | 92 | 70-130 | 1 | 30 | u |
| Bromoform | 10.00 | 9.367 | 9.367 | 94 | 9.325 | 9.325 | 93 | 70-130 | 0 | 30 | u |
| 1,1,2,2-Tetrachloroethane | 10.00 | 9.752 | 9.752 | 98 | 9.633 | 9.633 | 96 | 70-130 | 1 | 30 | u |
| 1,1,1,2-Tetrachloroethane | 10.00 | 9.662 | 9.662 | 97 | 9.578 | 9.578 | 96 | 70-130 | 1 | 30 | u |
| 4-Ethyltoluene | 10.00 | 9.514 | 9.514 | 95 | 9.490 | 9.490 | 95 | 70-130 | 0 | 30 | u |
| 1,3,5-Trimethylbenzene | 10.00 | 9.496 | 9.496 | 95 | 9.432 | 9.432 | 94 | 70-130 | 1 | 30 | u |
| 1,2,4-Trimethylbenzene | 10.00 | 9.526 | 9.526 | 95 | 9.428 | 9.428 | 94 | 70-130 | 1 | 30 | u |
| 1,3-Dichlorobenzene | 10.00 | 9.267 | 9.267 | 93 | 9.249 | 9.249 | 92 | 70-130 | 0 | 30 | u |
| 1,4-Dichlorobenzene | 10.00 | 9.272 | 9.272 | 93 | 9.209 | 9.209 | 92 | 70-130 | 1 | 30 | u |
| Benzyl chloride | 10.00 | 10.05 | 10.05 | 100 | 10.00 | 10.00 | 100 | 70-130 | 0 | 30 | u |
| 1,2-Dichlorobenzene | 10.00 | 9.272 | 9.272 | 93 | 9.232 | 9.232 | 92 | 70-130 | 0 | 30 | u |
| 1,2,4-Trichlorobenzene | 10.00 | 9.501 | 9.501 | 95 | 9.527 | 9.527 | 95 | 70-130 | 0 | 30 | u |
| Hexachlorobutadiene | 10.00 | 8.906 | 8.906 | 89 | 8.901 | 8.901 | 89 | 70-130 | 0 | 30 | u |
| | | | | | | | | | | | |
| Bromofluorobenzene | 10.00 | 10.10 | 10.10 | 101 | 9.988 | 9.988 | 100 | 60-140 | | | u |

| ISTD (ICAL air06_010522009) | ICAL Area | CCV/BS Area | %Drift | ICAL RT | CCV/BS RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 404947 | -1.52 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1669689 | 7.61 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 847624 | 0.04 | 14.01 | 14.01 | 0.00 |

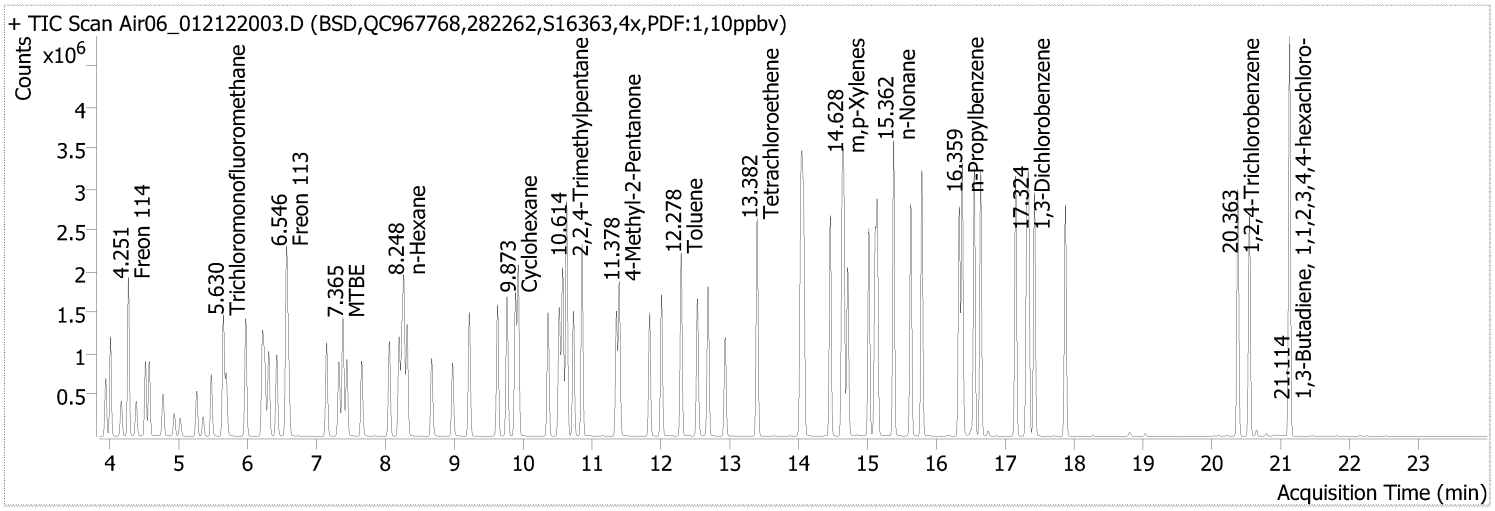
| ISTD (ICAL air06_010522009) | ICAL Area | BSD Area | %Drift | ICAL RT | BSD RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 404524 | -1.62 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1665439 | 7.34 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 849566 | 0.27 | 14.01 | 14.01 | 0.00 |

Analyst: DJL Date: 01/26/22 Reviewer: LW Date: 01/27/22

u=use

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012122003.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/21/2022 11:43:39 AM |
| Sample Name | BSD,QC967768,282262,S16363,4x,PDF:1,10ppbv | Instrument | Air-MS-06 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 21 0951 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



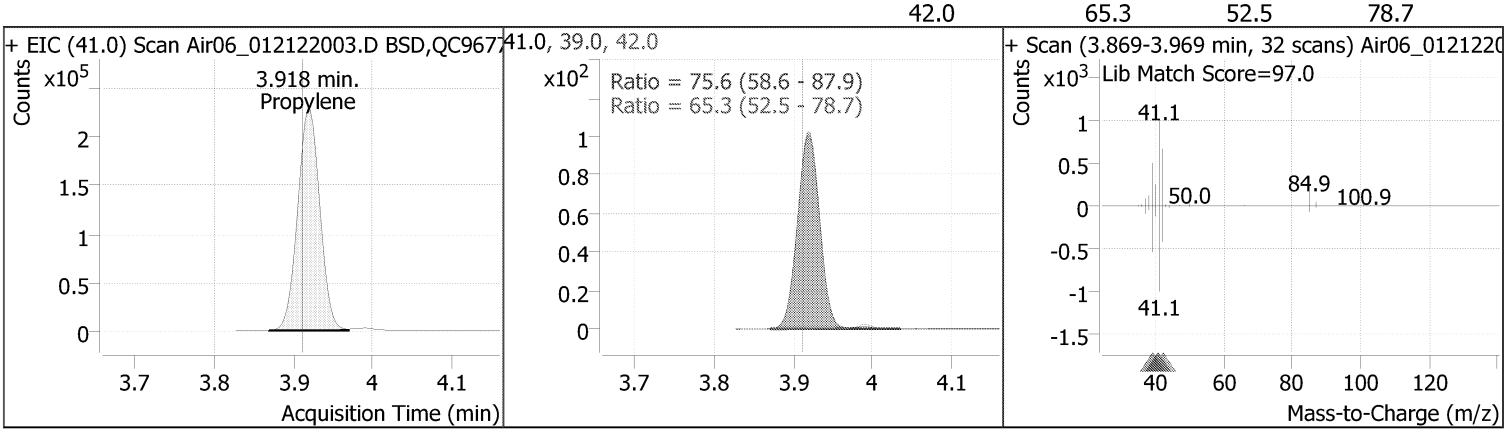

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 404947 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.912 | 114.0 | 1669688 | 10.0000 | nL/L | | 0.003 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 847624 | 10.0000 | nL/L | | 0.000 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1125827 | 10.1005 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 101.00% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.918 | 41.0 | 448715 | 11.2484 | nL/L | | 98 |
| T Freon 12 | 3.989 | 85.0 | 1118378 | 10.5974 | nL/L | # | 98 |
| T Chloromethane | 4.144 | 50.0 | 534936 | 10.7875 | nL/L | | 99 |
| T Freon 114 | 4.251 | 135.0 | 726341 | 9.7558 | nL/L | | 100 |
| T Vinyl Chloride | 4.361 | 62.0 | 496261 | 10.0051 | nL/L | | 99 |
| T 1,3-Butadiene | 4.497 | 54.0 | 449465 | 10.5810 | nL/L | | 97 |
| T Butane | 4.552 | 43.0 | 915793 | 11.1077 | nL/L | | 98 |
| T Bromomethane | 4.753 | 96.0 | 360462 | 9.8705 | nL/L | | 100 |
| T Chloroethane | 4.914 | 64.0 | 244548 | 10.0017 | nL/L | | 96 |
| T Ethanol | 5.002 | 45.0 | 267787 | 10.9659 | nL/L | | 99 |
| T Vinyl bromide | 5.241 | 108.0 | 420127 | 9.8035 | nL/L | | 100 |
| T Acrolein | 5.335 | 56.0 | 216267 | 10.0390 | nL/L | | 100 |
| T Acetone | 5.452 | 58.0 | 266027 | 10.4525 | nL/L | | 88 |
| T Trichloromonofluoromethane | 5.630 | 101.0 | 1297951 | 10.4349 | nL/L | | 100 |
| T Isopropanol (IPA) | 5.669 | 45.0 | 1042390 | 11.4370 | nL/L | | 98 |
| T n-Pentane | 5.953 | 43.0 | 1067874 | 10.4820 | nL/L | | 99 |
| T 1,1-Dichloroethene | 6.196 | 61.0 | 953157 | 10.2930 | nL/L | | 99 |
| T Tert-butyl alcohol (TBA) | 6.229 | 59.0 | 1103973 | 10.4670 | nL/L | | 95 |
| T Methylene Chloride | 6.287 | 84.0 | 425581 | 9.4982 | nL/L | | 97 |
| T 3-Chloropropene | 6.403 | 76.0 | 204256 | 9.8889 | nL/L | | 100 |
| T Freon 113 | 6.546 | 101.0 | 993762 | 9.9411 | nL/L | | 98 |
| T Carbon Disulfide | 6.575 | 76.0 | 1285012 | 9.9229 | nL/L | | 97 |

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.128 | 61.0 | 777002 | 10.0186 | nL/L | 99 |
| T 1,1-Dichloroethane | 7.306 | 63.0 | 964092 | 10.1241 | nL/L | 100 |
| T MTBE | 7.365 | 73.0 | 1289478 | 10.2186 | nL/L | 97 |
| T Vinyl Acetate | 7.423 | 43.0 | 1534289 | 9.6017 | nL/L | 99 |
| T 2-Butanone | 7.636 | 43.0 | 1305948 | 10.6087 | nL/L | 94 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 789844 | 10.0690 | nL/L | 99 |
| T Ethyl Acetate | 8.219 | 61.0 | 187672 | 9.7104 | nL/L | 86 |
| T n-Hexane | 8.248 | 57.0 | 880770 | 9.9231 | nL/L | 97 |
| T Chloroform | 8.297 | 83.0 | 1025810 | 10.2490 | nL/L | 98 |
| T Tetrahydrofuran | 8.653 | 72.0 | 217679 | 9.8598 | nL/L | 95 |
| T 1,2-Dichloroethane | 8.957 | 62.0 | 765721 | 10.4481 | nL/L | 99 |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 997278 | 10.3010 | nL/L | 98 |
| T Benzene | 9.611 | 78.0 | 1401626 | 9.7143 | nL/L | 99 |
| T Carbon Tetrachloride | 9.750 | 117.0 | 1058377 | 10.2471 | nL/L | 98 |
| T Cyclohexane | 9.873 | 84.0 | 572378 | 9.4951 | nL/L | 96 |
| T 1,2-Dichloropropane | 10.346 | 63.0 | 628304 | 9.1869 | nL/L | 97 |
| T Methane, bromodichloro- | 10.504 | 83.0 | 1053599 | 9.4413 | nL/L | 98 |
| T 1,4-Dioxane | 10.537 | 88.0 | 316715 | 8.8742 | nL/L | 97 |
| T Trichloroethene | 10.559 | 132.0 | 614483 | 8.8322 | nL/L | 98 |
| T 2,2,4-Trimethylpentane | 10.614 | 57.0 | 2813536 | 9.0394 | nL/L | 98 |
| T Methyl methacrylate | 10.711 | 69.0 | 533141 | 9.1833 | nL/L | 91 |
| T n-Heptane | 10.838 | 71.0 | 480696 | 8.9403 | nL/L | 98 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 190155 | 8.7586 | nL/L | 92 |
| T 4-Methyl-2-Pentanone | 11.378 | 58.0 | 542205 | 9.0391 | nL/L | 94 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 197359 | 8.8662 | nL/L | 96 |
| T 1,1,2-Trichloroethane | 11.993 | 97.0 | 588843 | 9.0410 | nL/L | 99 |
| T Toluene | 12.278 | 91.0 | 1752514 | 8.8553 | nL/L | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 253344156 | 18.5548 | nL/L | 100 |
| T 2-Hexanone | 12.514 | 58.0 | 710867 | 9.2268 | nL/L | 93 |
| T Dibromochloromethane | 12.670 | 129.0 | 1086833 | 9.1919 | nL/L | 99 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 907503 | 9.0569 | nL/L | 100 |
| T Tetrachloroethene | 13.382 | 166.0 | 870419 | 8.5070 | nL/L | 96 |
| T 1,1,1,2-Tetrachloroethane | 14.035 | 131.0 | 706751 | 9.6621 | nL/L | 99 |
| T Benzene, chloro- | 14.058 | 112.0 | 1358124 | 9.3565 | nL/L | 98 |
| T Ethylbenzene | 14.443 | 91.0 | 2205226 | 9.5627 | nL/L | 99 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 192135275 | 19.2658 | nL/L | 100 |
| T m,p-Xylenes | 14.628 | 91.0 | 3543302 | 19.1051 | nL/L | 98 |
| T Bromoform | 14.696 | 173.0 | 1189836 | 9.3667 | nL/L | 98 |
| T Styrene | 15.003 | 104.0 | 1366491 | 9.2975 | nL/L | 98 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 1366749 | 9.7521 | nL/L | 100 |
| T o-Xylene | 15.126 | 91.0 | 1823909 | 9.5654 | nL/L | 99 |
| T n-Nonane | 15.362 | 85.0 | 415199 | 9.4252 | nL/L | 97 |
| T Isopropylbenzene | 15.774 | 105.0 | 2461991 | 9.4191 | nL/L | 99 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 614014 | 9.2230 | nL/L | 98 |
| T n-Propylbenzene | 16.359 | 120.0 | 687358 | 9.4119 | nL/L | 87 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 2460796 | 9.5135 | nL/L | 98 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 2126429 | 9.4965 | nL/L | 99 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 2118603 | 9.5261 | nL/L | 99 |
| T Benzyl chloride | 17.298 | 91.0 | 1964899 | 10.0479 | nL/L | 98 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 1413583 | 9.2666 | nL/L | 99 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 1430281 | 9.2722 | nL/L | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 1379466 | 9.2716 | nL/L | 99 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1164797 | 9.5007 | nL/L | 98 |
| T Naphthalene | 20.531 | 128.0 | 2530776 | 9.9732 | nL/L | 100 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.114 | 225.0 | 1173261 | 8.9057 | nL/L | 99 |

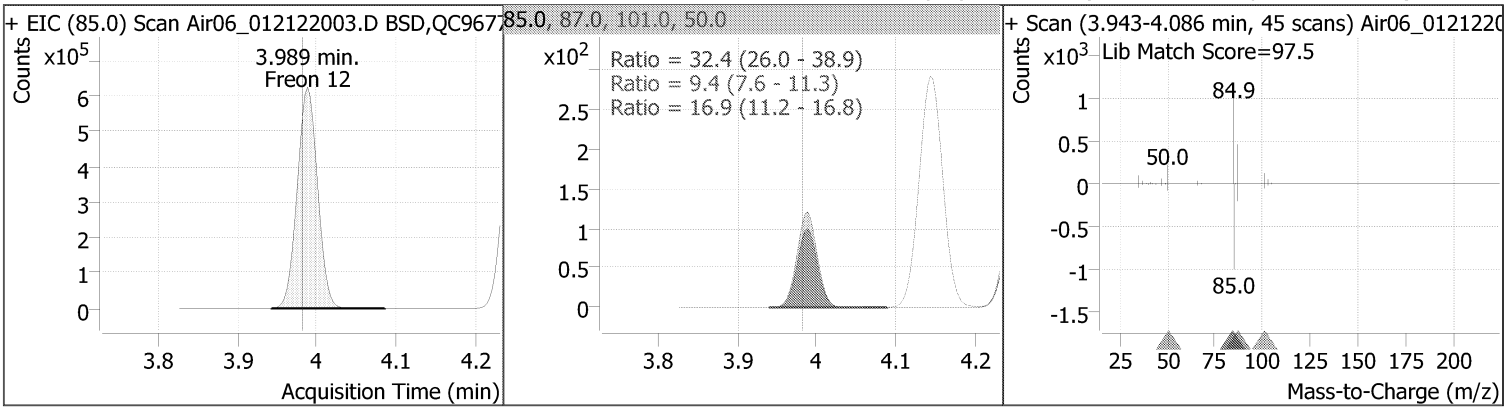
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

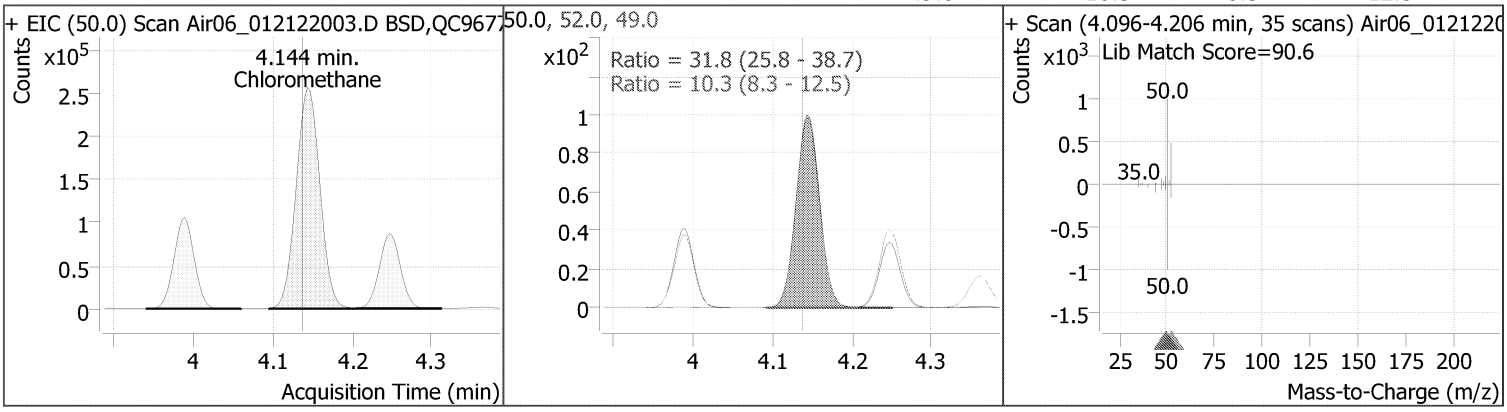
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 11.2484 | 3.92 | 0.01 | 448715 | 39.0 | 75.6 | 58.6 | 87.9 |
| | | | | | 42.0 | 65.3 | 52.5 | 78.7 |



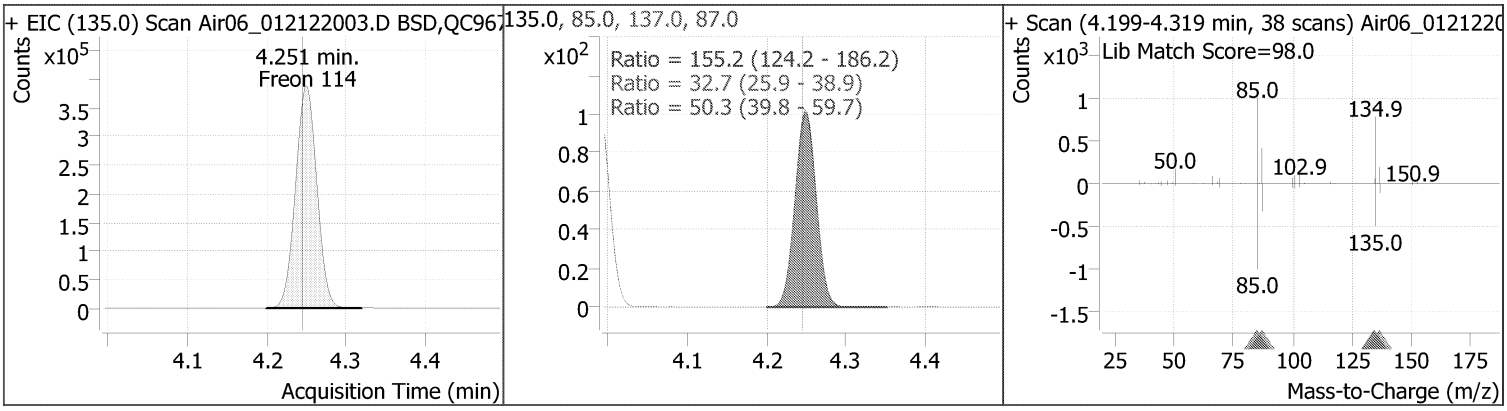

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 10.5974 | 3.99 | 0.01 | 1118378 | 87.0 | 32.4 | 26.0 | 38.9 |
| | | | | | 50.0 | 16.9 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.4 | 7.6 | 11.3 |



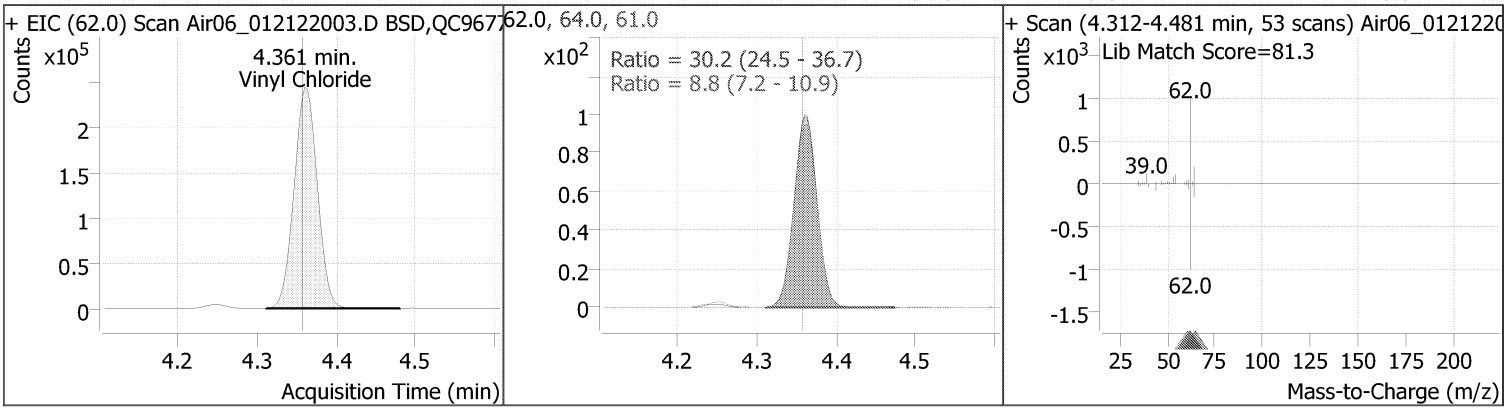

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.7875 | 4.14 | 0.01 | 534936 | 52.0 | 31.8 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.3 | 8.3 | 12.5 |



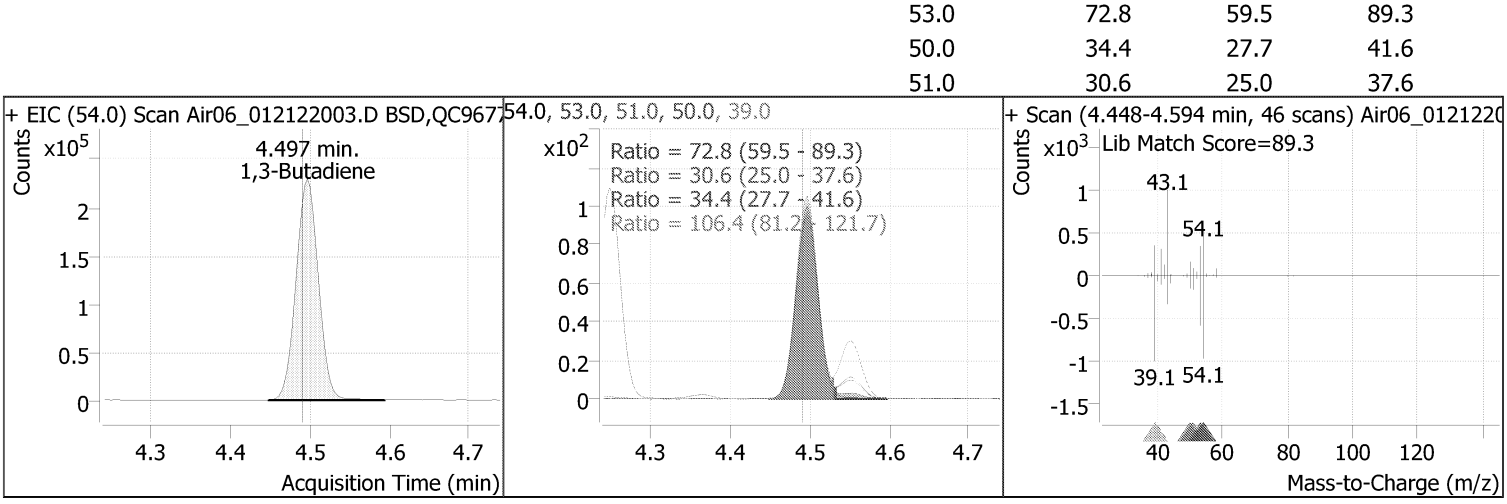
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 9.7558 | 4.25 | 0.01 | 726341 | 85.0 | 155.2 | 124.2 | 186.2 |
| | | | | | 87.0 | 50.3 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.7 | 25.9 | 38.9 |



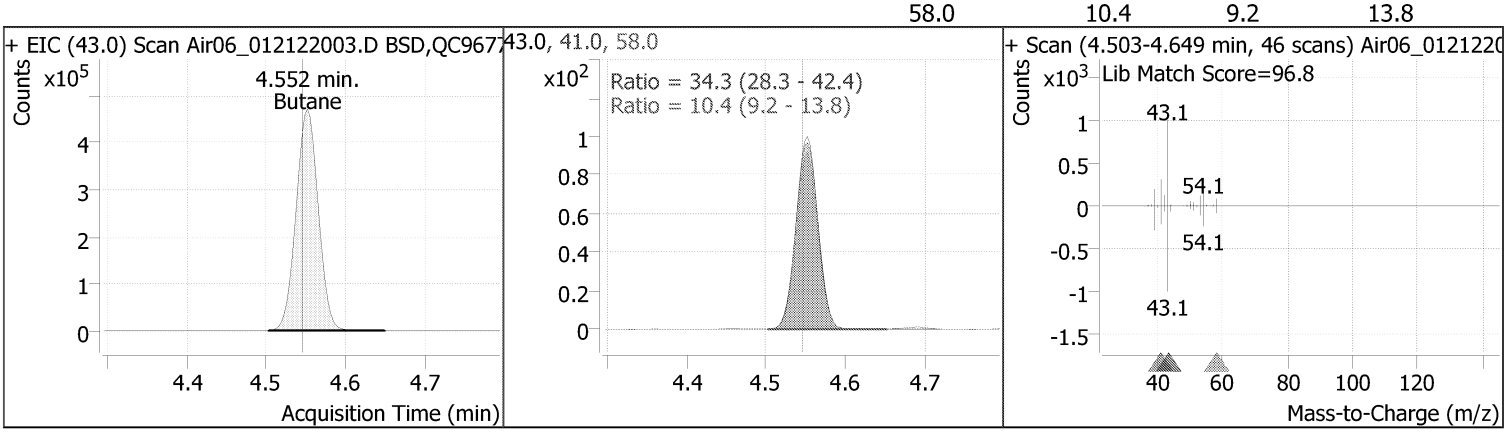

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 10.0051 | 4.36 | 0.01 | 496261 | 64.0 | 30.2 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.8 | 7.2 | 10.9 |



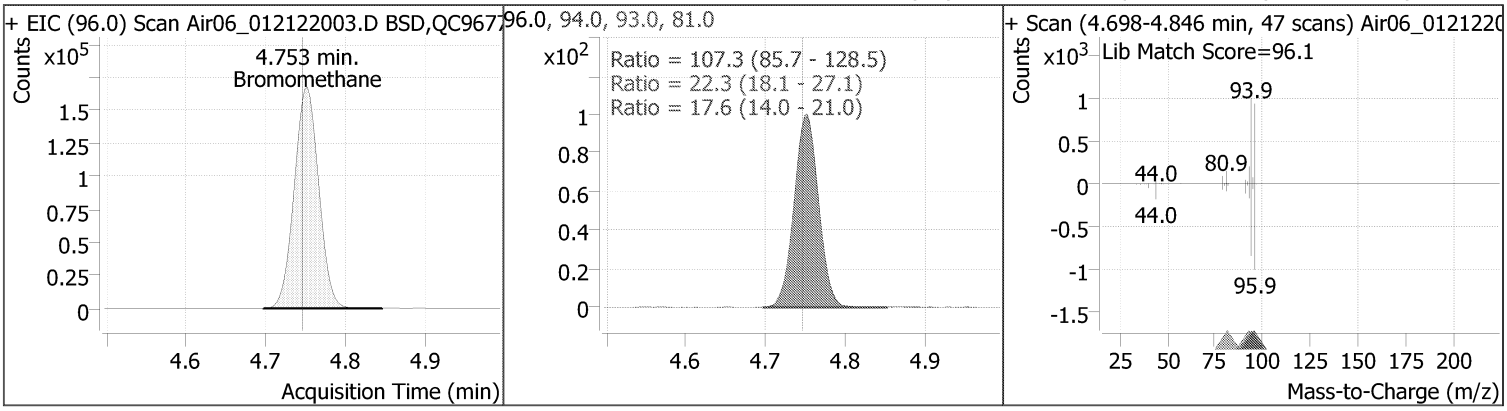

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 10.5810 | 4.50 | 0.01 | 449465 | 39.0 | 106.4 | 81.2 | 121.7 |
| | | | | | 53.0 | 72.8 | 59.5 | 89.3 |
| | | | | | 50.0 | 34.4 | 27.7 | 41.6 |
| | | | | | 51.0 | 30.6 | 25.0 | 37.6 |



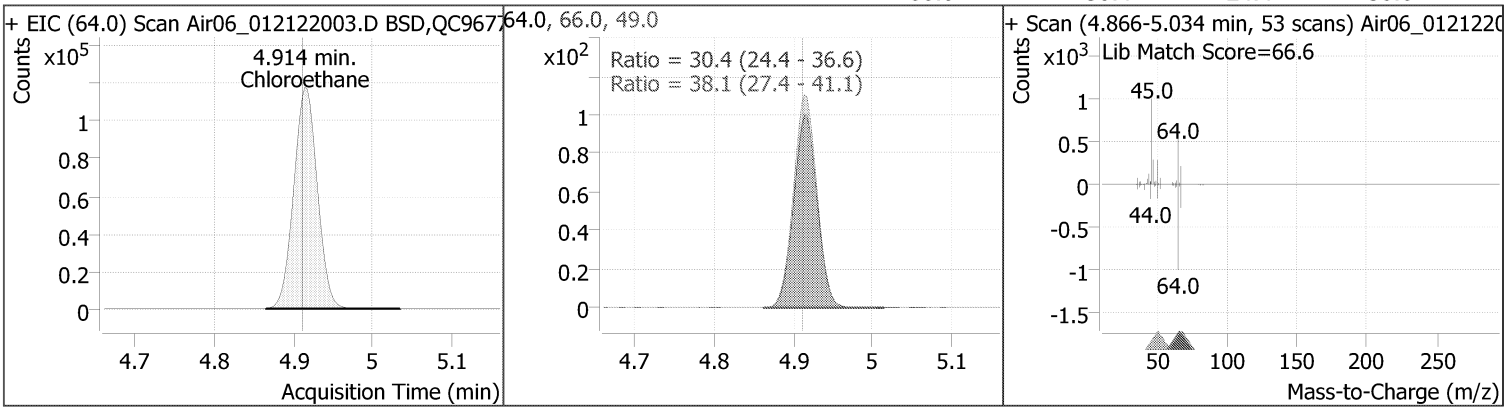
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 11.1077 | 4.55 | 0.01 | 915793 | 41.0 | 34.3 | 28.3 | 42.4 |
| | | | | | 58.0 | 10.4 | 9.2 | 13.8 |



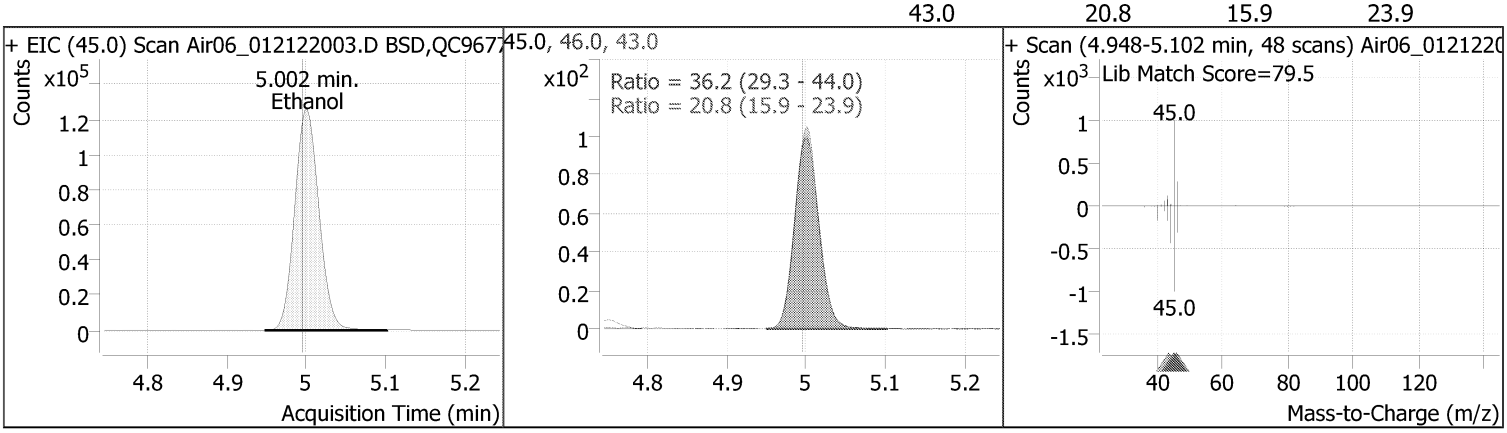

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 9.8705 | 4.75 | 0.01 | 360462 | 94.0 | 107.3 | 85.7 | 128.5 |
| | | | | | 93.0 | 22.3 | 18.1 | 27.1 |
| | | | | | 81.0 | 17.6 | 14.0 | 21.0 |



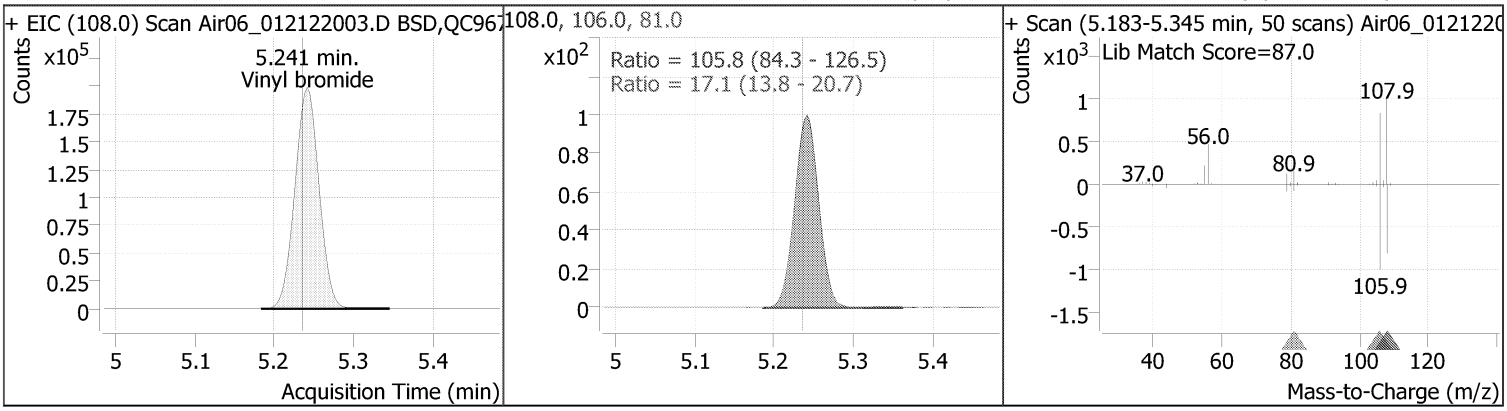

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0017 | 4.91 | 0.01 | 244548 | 49.0 | 38.1 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.4 | 24.4 | 36.6 |



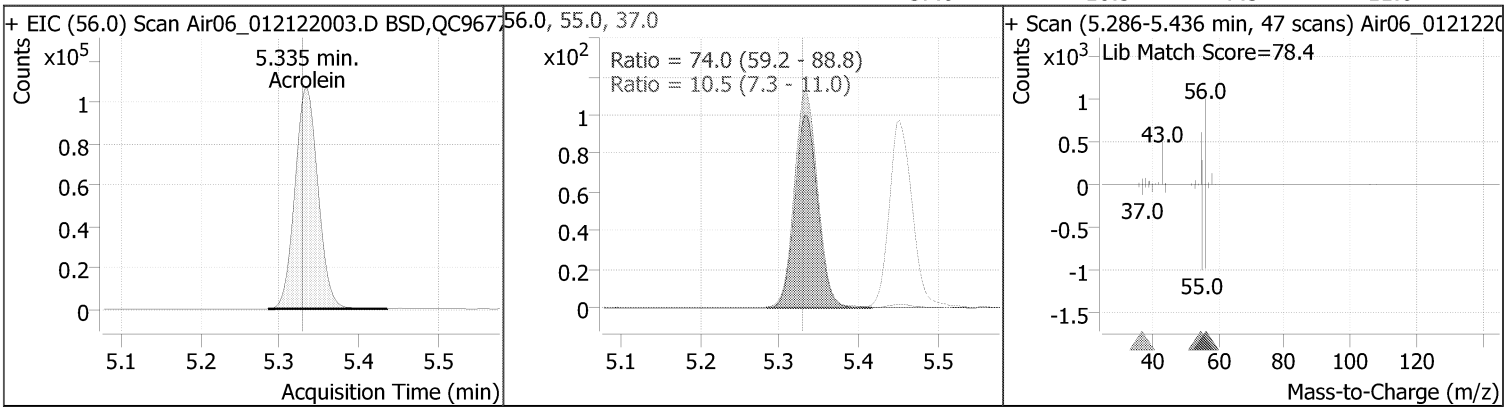
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 10.9659 | 5.00 | 0.01 | 267787 | 46.0 | 36.2 | 29.3 | 44.0 |
| | | | | | 43.0 | 20.8 | 15.9 | 23.9 |



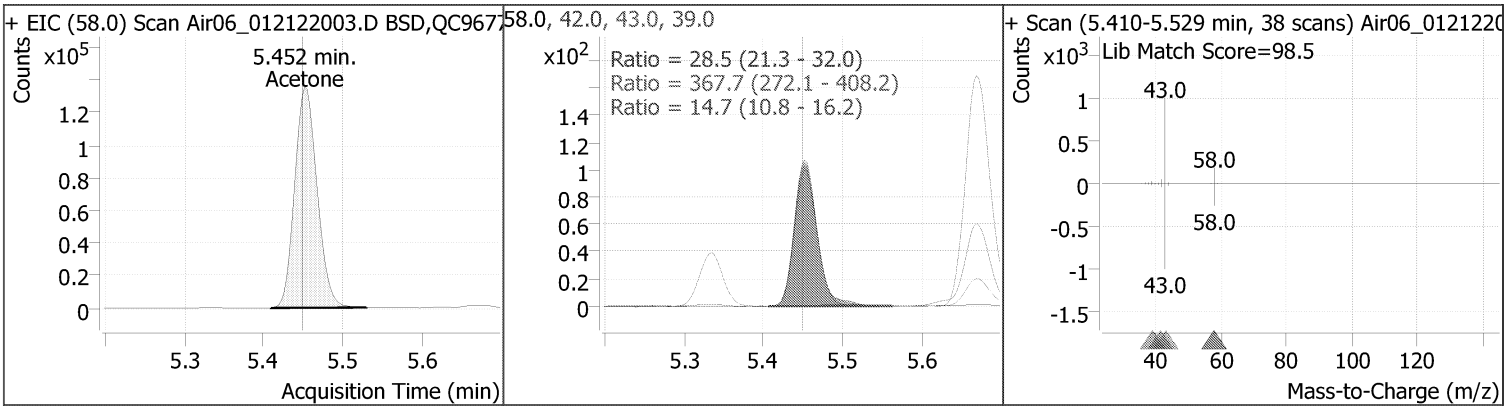

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 9.8035 | 5.24 | 0.01 | 420127 | 106.0 | 105.8 | 84.3 | 126.5 |
| | | | | | 81.0 | 17.1 | 13.8 | 20.7 |



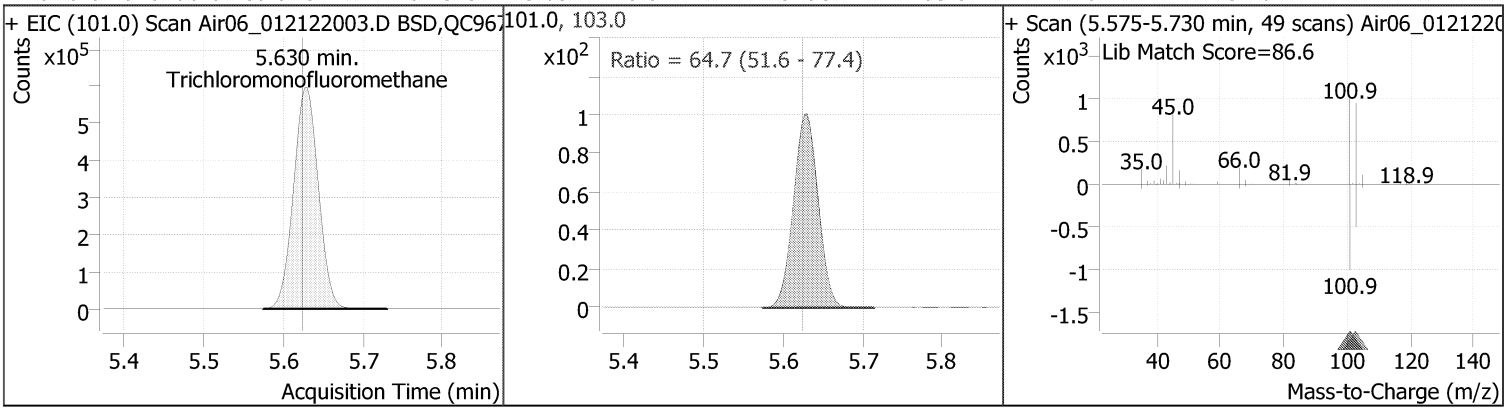

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 10.0390 | 5.34 | 0.01 | 216267 | 55.0 | 74.0 | 59.2 | 88.8 |
| | | | | | 37.0 | 10.5 | 7.3 | 11.0 |



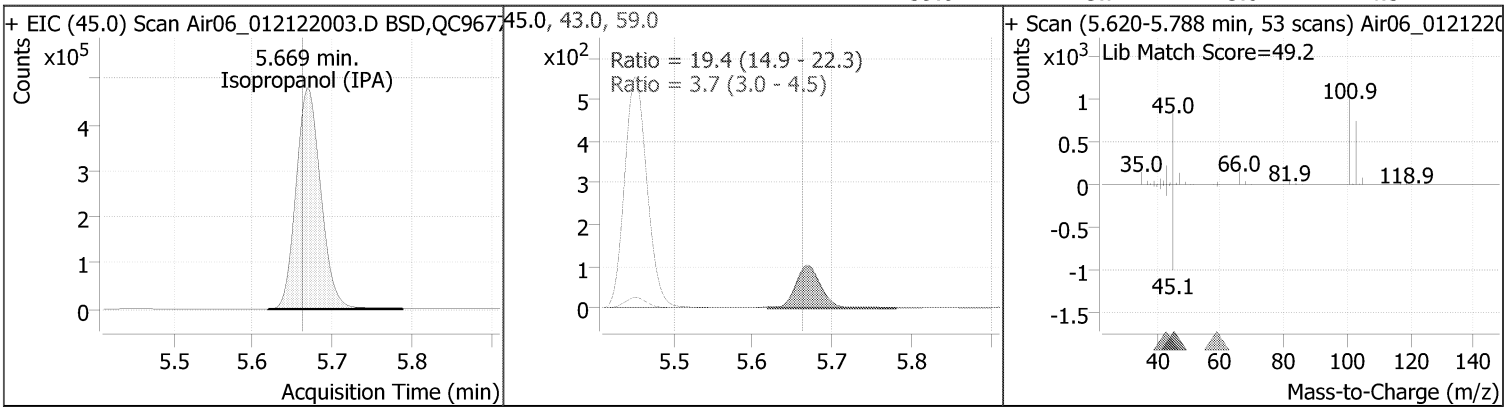
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 10.4525 | 5.45 | 0.01 | 266027 | 43.0 | 367.7 | 272.1 | 408.2 |
| | | | | | 42.0 | 28.5 | 21.3 | 32.0 |
| | | | | | 39.0 | 14.7 | 10.8 | 16.2 |



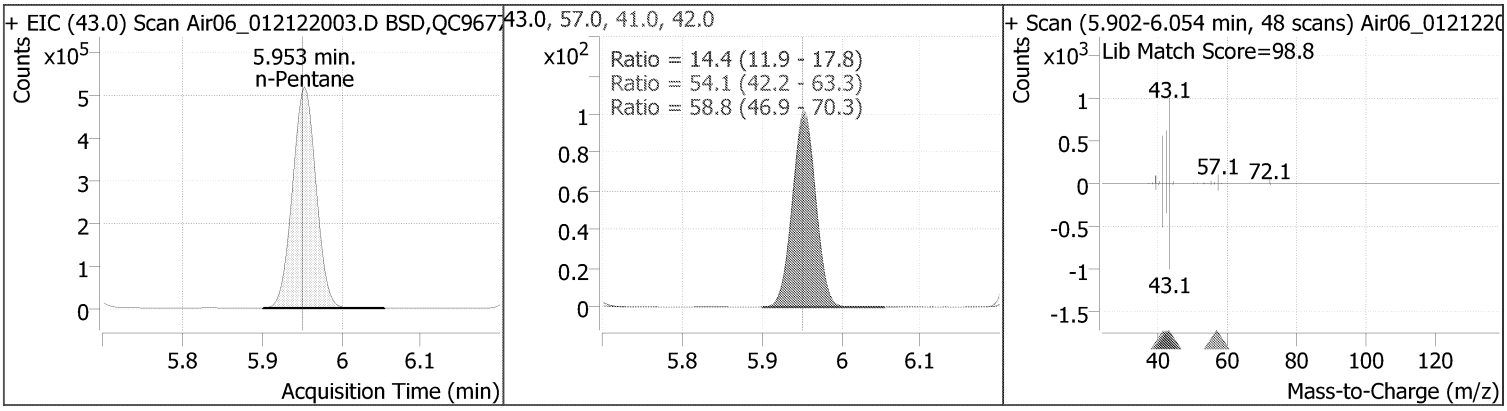

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 10.4349 | 5.63 | 0.01 | 1297951 | 103.0 | 64.7 | 51.6 | 77.4 |



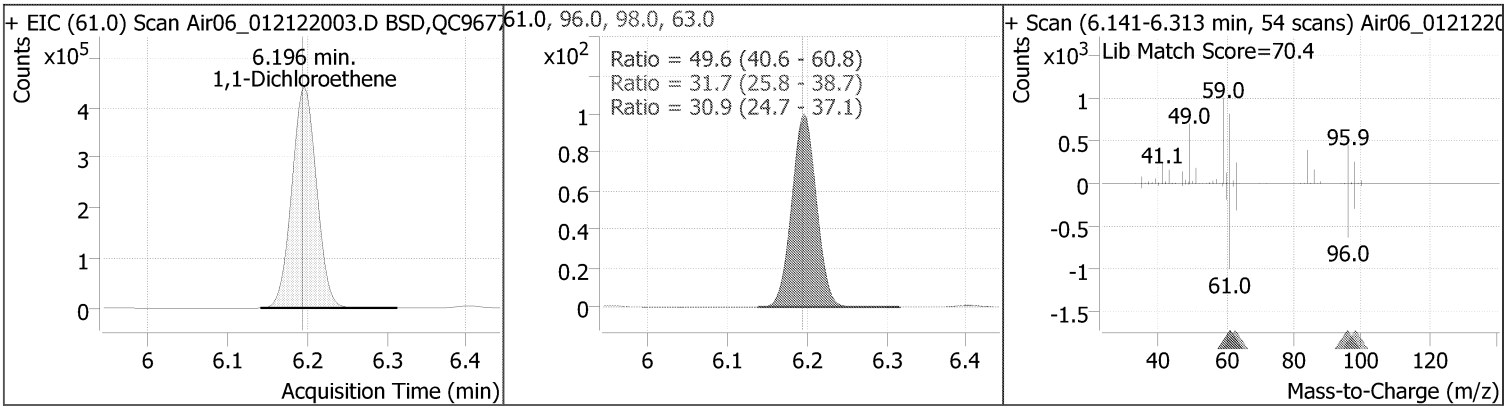

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 11.4370 | 5.67 | 0.01 | 1042390 | 43.0 | 19.4 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.7 | 3.0 | 4.5 |



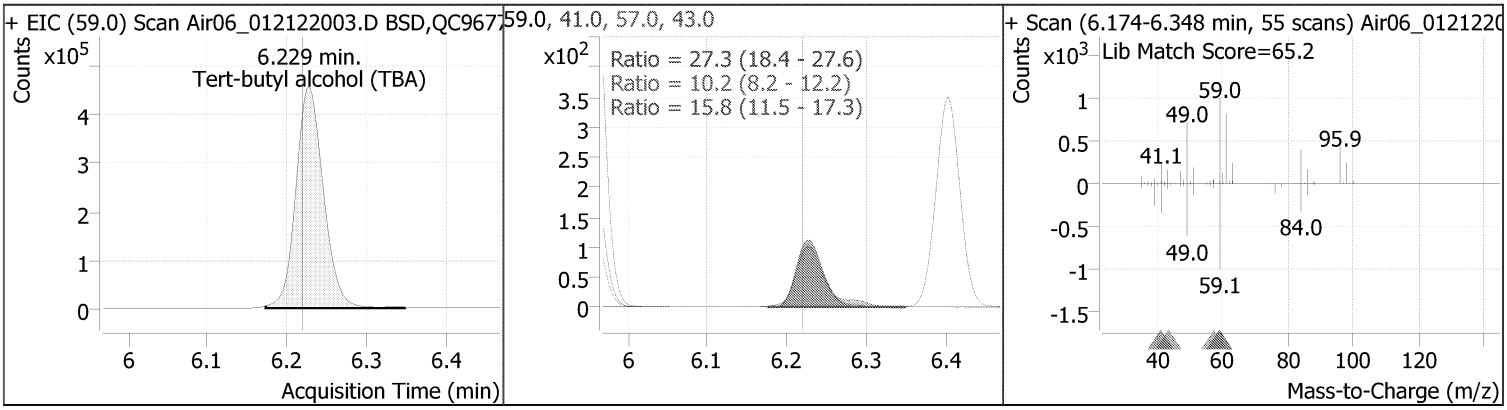
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 10.4820 | 5.95 | 0.01 | 1067874 | 42.0 | 58.8 | 46.9 | 70.3 |
| | | | | | 41.0 | 54.1 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.4 | 11.9 | 17.8 |



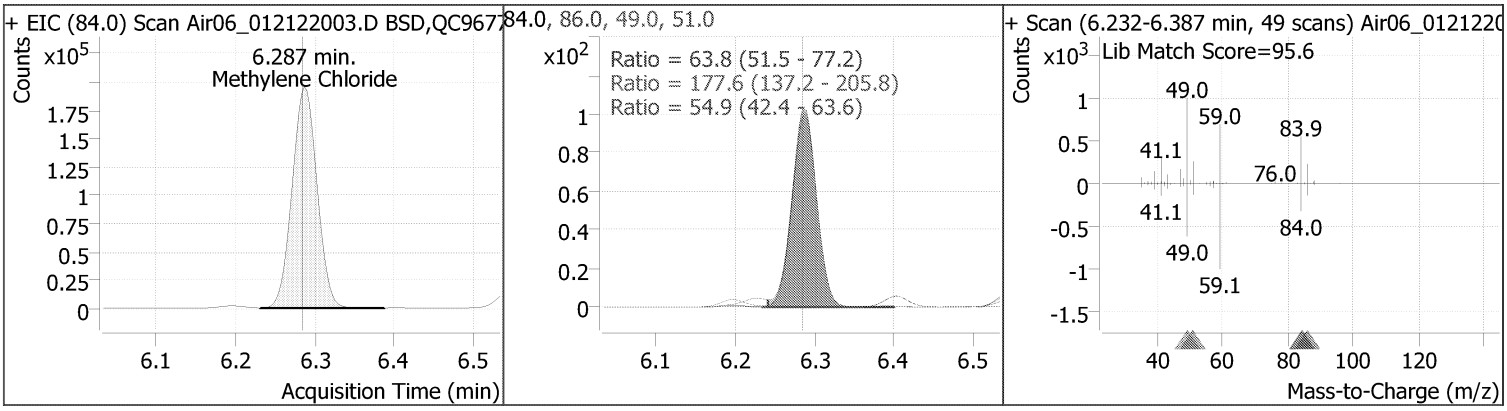

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 10.2930 | 6.20 | 0.01 | 953157 | 96.0 | 49.6 | 40.6 | 60.8 |
| | | | | | 98.0 | 31.7 | 25.8 | 38.7 |
| | | | | | 63.0 | 30.9 | 24.7 | 37.1 |



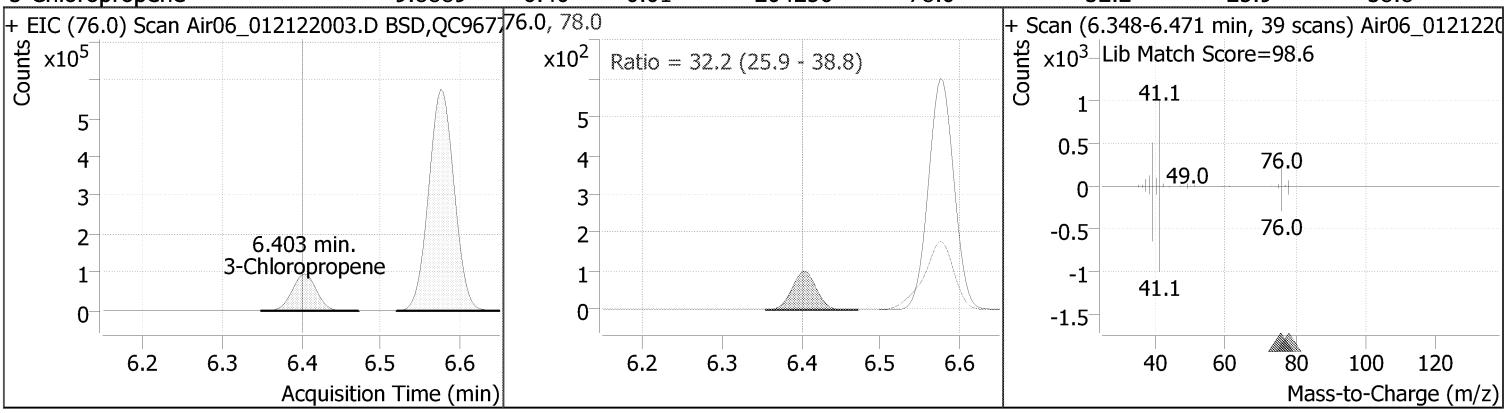

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 10.4670 | 6.23 | 0.01 | 1103973 | 41.0 | 27.3 | 18.4 | 27.6 |
| | | | | | 43.0 | 15.8 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.2 | 8.2 | 12.2 |



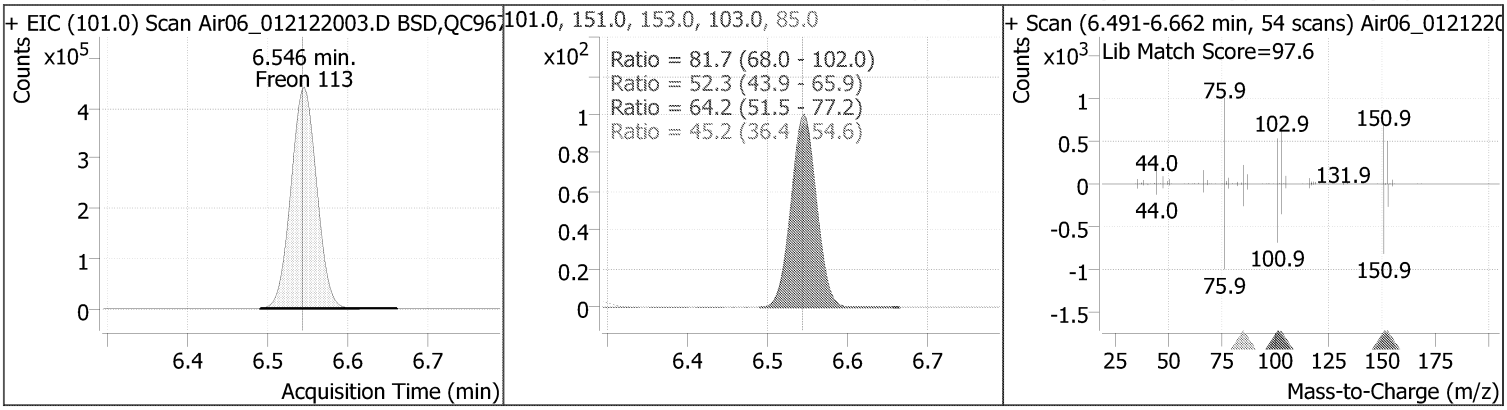
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 9.4982 | 6.29 | 0.01 | 425581 | 49.0 | 177.6 | 137.2 | 205.8 |
| | | | | | 86.0 | 63.8 | 51.5 | 77.2 |
| | | | | | 51.0 | 54.9 | 42.4 | 63.6 |



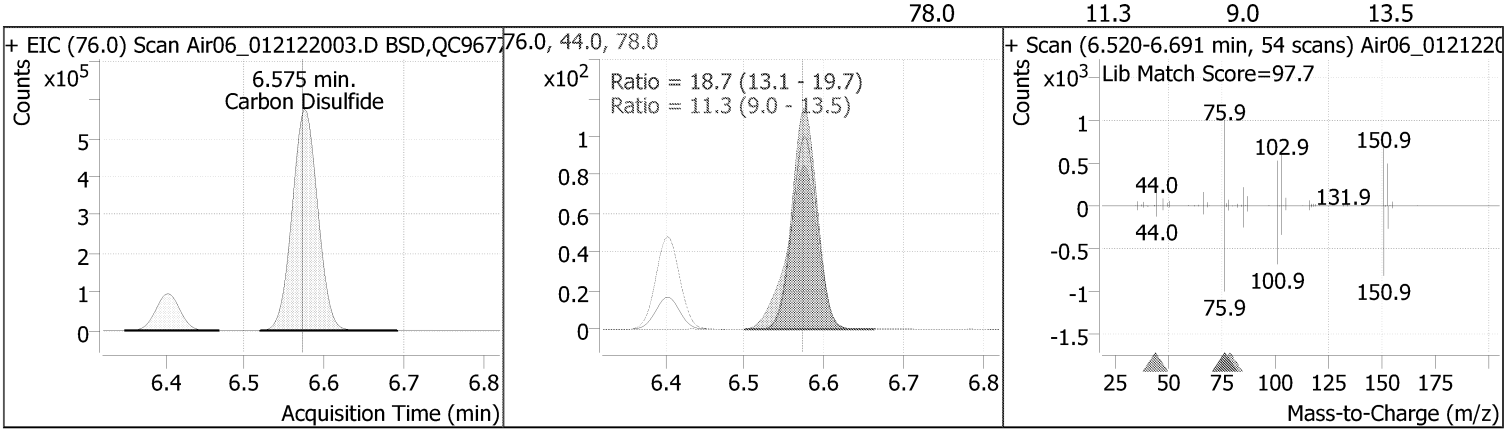

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 9.8889 | 6.40 | 0.01 | 204256 | 78.0 | 32.2 | 25.9 | 38.8 |



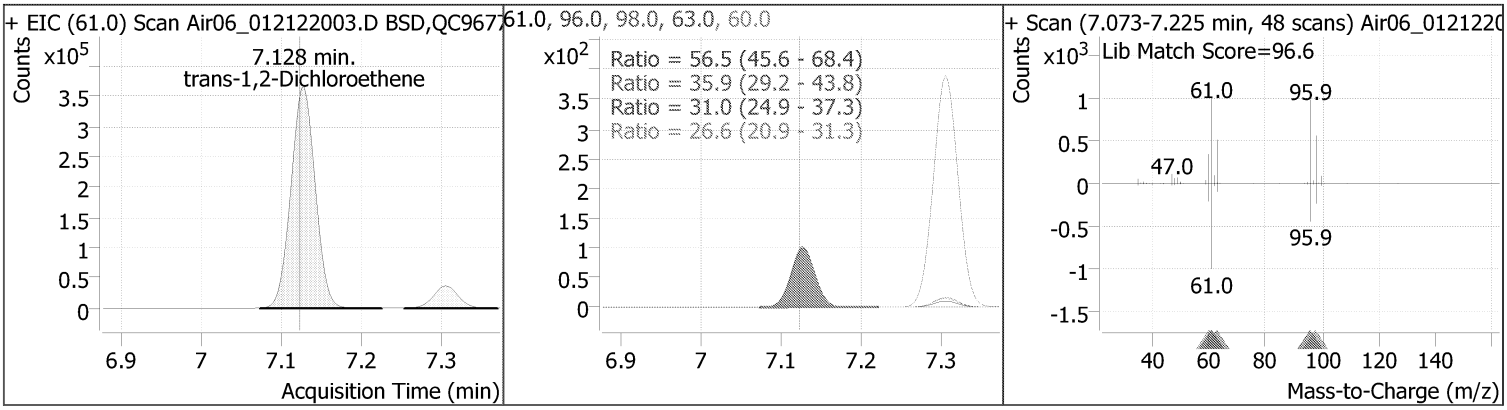

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 9.9411 | 6.55 | 0.01 | 993762 | 151.0 | 81.7 | 68.0 | 102.0 |
| | | | | | 103.0 | 64.2 | 51.5 | 77.2 |
| | | | | | 153.0 | 52.3 | 43.9 | 65.9 |
| | | | | | 85.0 | 45.2 | 36.4 | 54.6 |



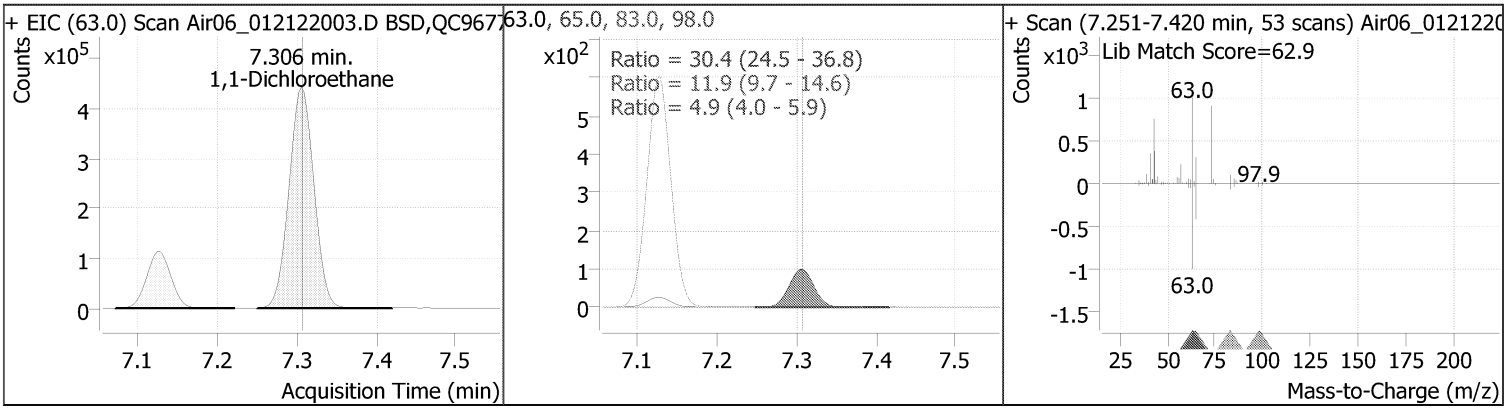
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 9.9229 | 6.57 | 0.01 | 1285012 | 44.0 | 18.7 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.3 | 9.0 | 13.5 |



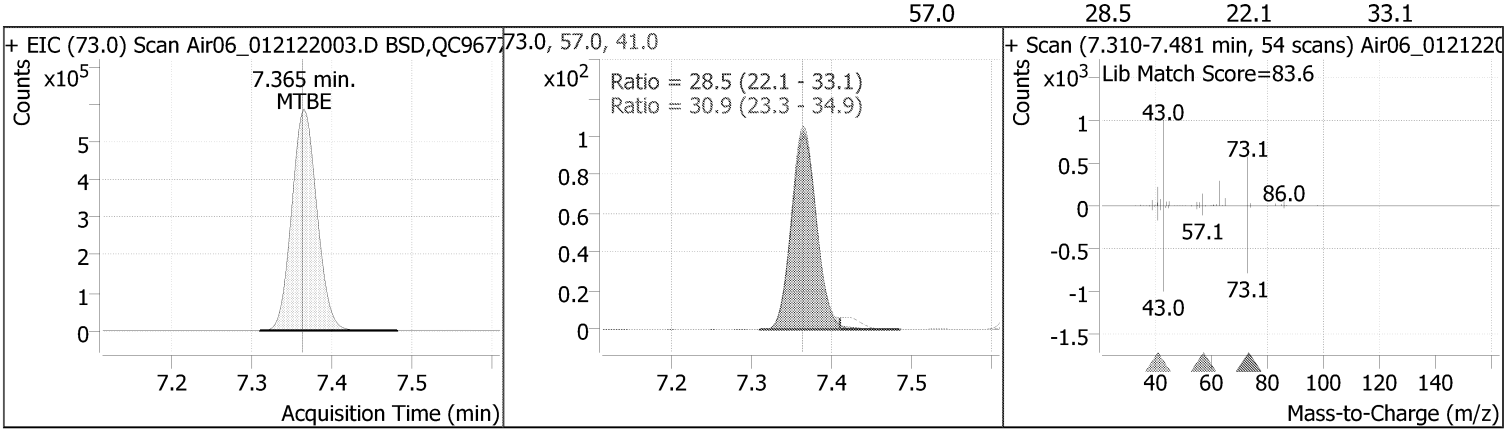

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 10.0186 | 7.13 | 0.01 | 777002 | 96.0 | 56.5 | 45.6 | 68.4 |
| | | | | | 98.0 | 35.9 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.0 | 24.9 | 37.3 |
| | | | | | 60.0 | 26.6 | 20.9 | 31.3 |



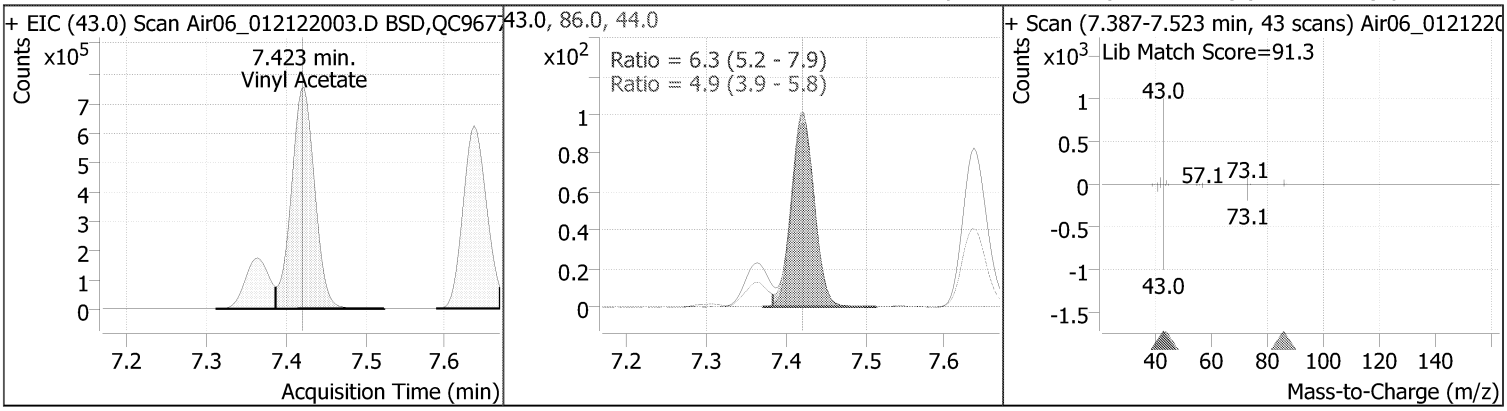

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 10.1241 | 7.31 | 0.00 | 964092 | 65.0 | 30.4 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.9 | 9.7 | 14.6 |
| | | | | | 98.0 | 4.9 | 4.0 | 5.9 |



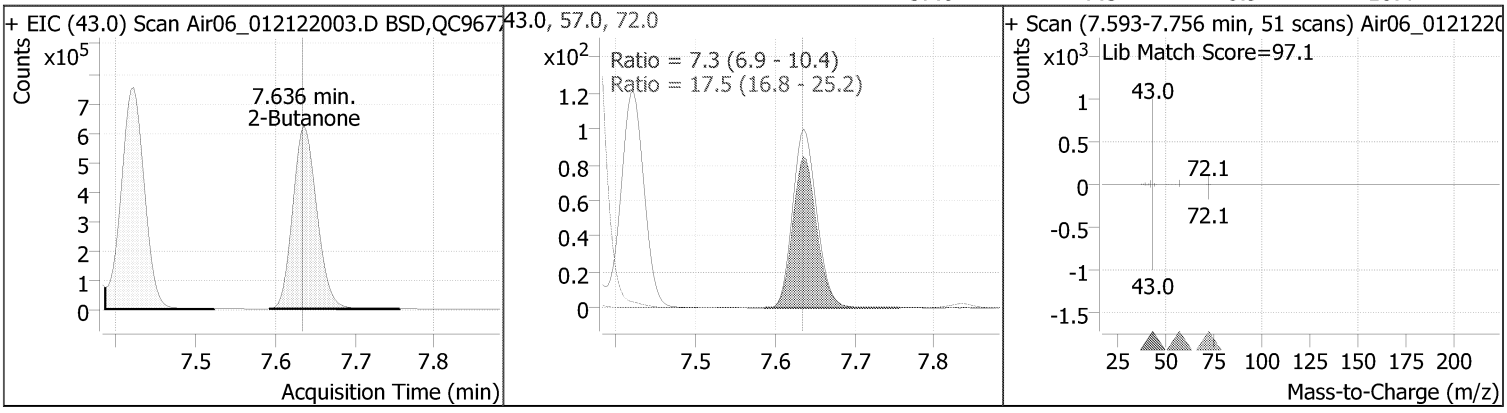
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 10.2186 | 7.36 | 0.01 | 1289478 | 41.0 | 30.9 | 23.3 | 34.9 |
| | | | | | 57.0 | 28.5 | 22.1 | 33.1 |



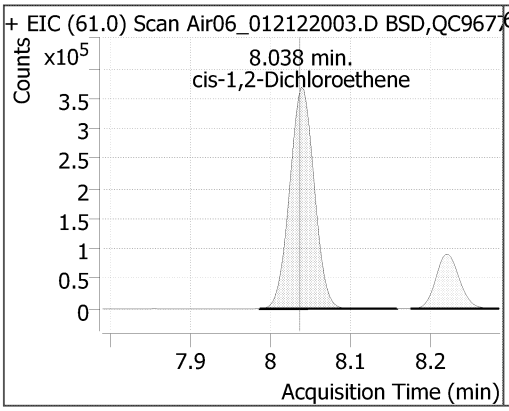

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 9.6017 | 7.42 | 0.01 | 1534289 | 86.0 | 6.3 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.9 | 3.9 | 5.8 |

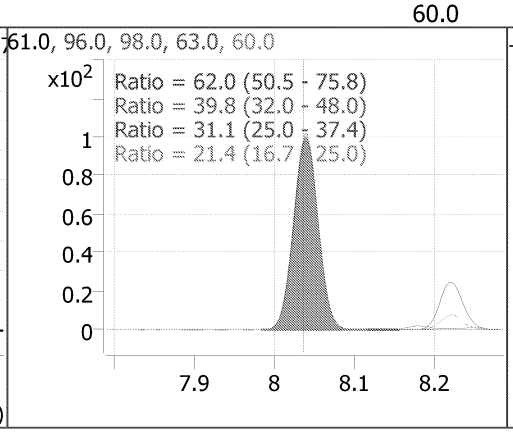


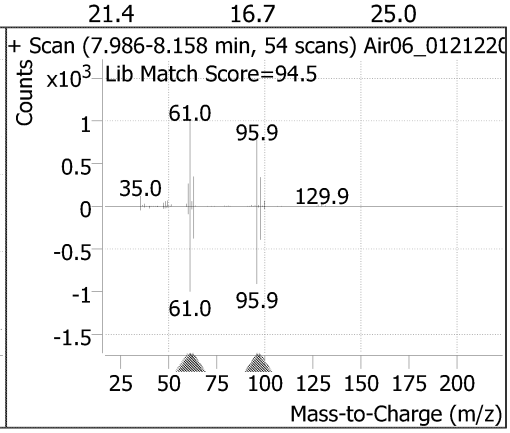

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 10.6087 | 7.64 | 0.01 | 1305948 | 72.0 | 17.5 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.3 | 6.9 | 10.4 |



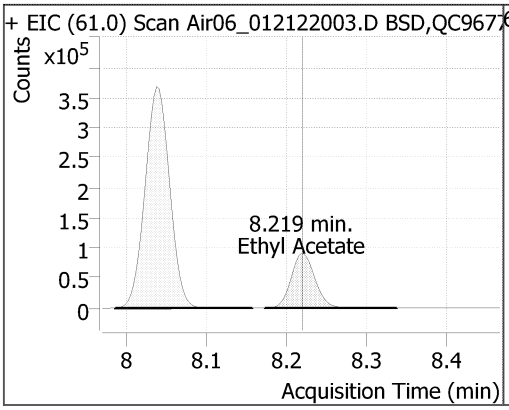
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 10.0690 | 8.04 | 0.00 | 789844 | 96.0 | 62.0 | 50.5 | 75.8 |
| | | | | | 98.0 | 39.8 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.1 | 25.0 | 37.4 |
| | | | | | 60.0 | 21.4 | 16.7 | 25.0 |

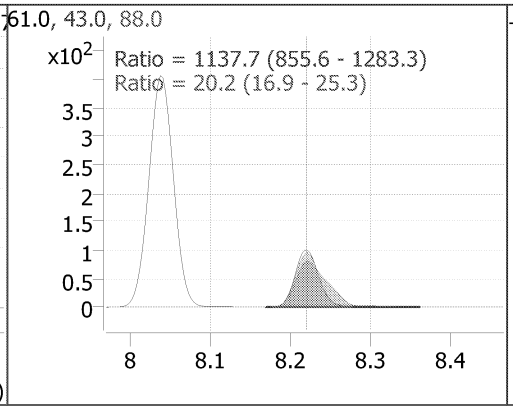


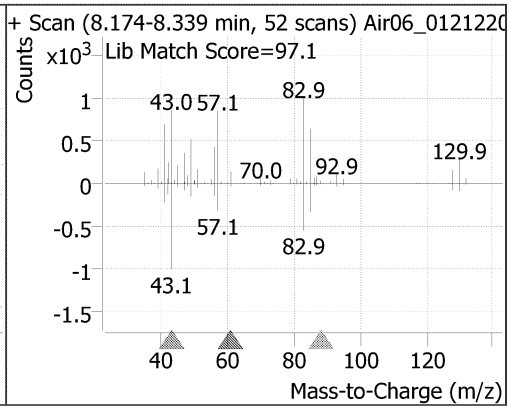



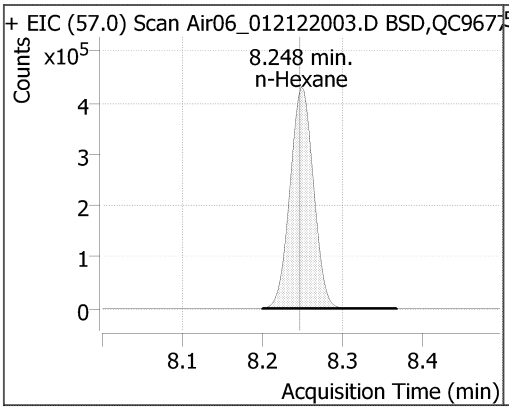

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 9.7104 | 8.22 | 0.00 | 187672 | 43.0 | 1137.7 | 855.6 | 1283.3 |
| | | | | | 88.0 | 20.2 | 16.9 | 25.3 |

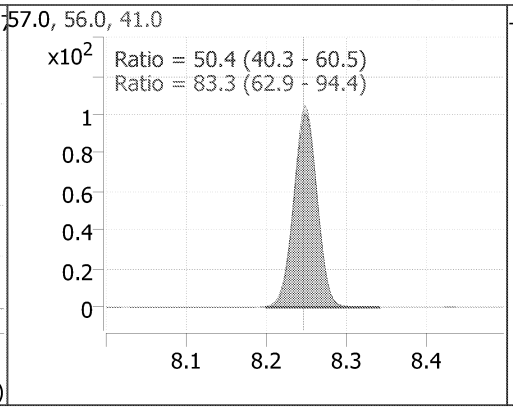


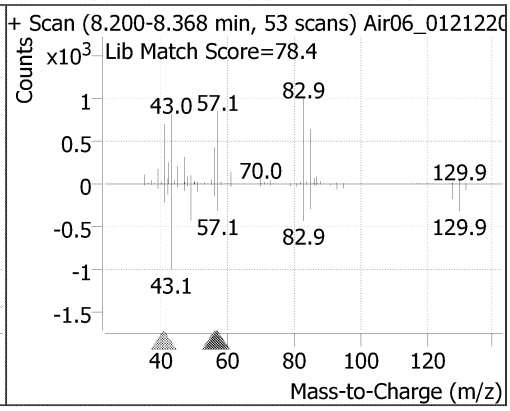



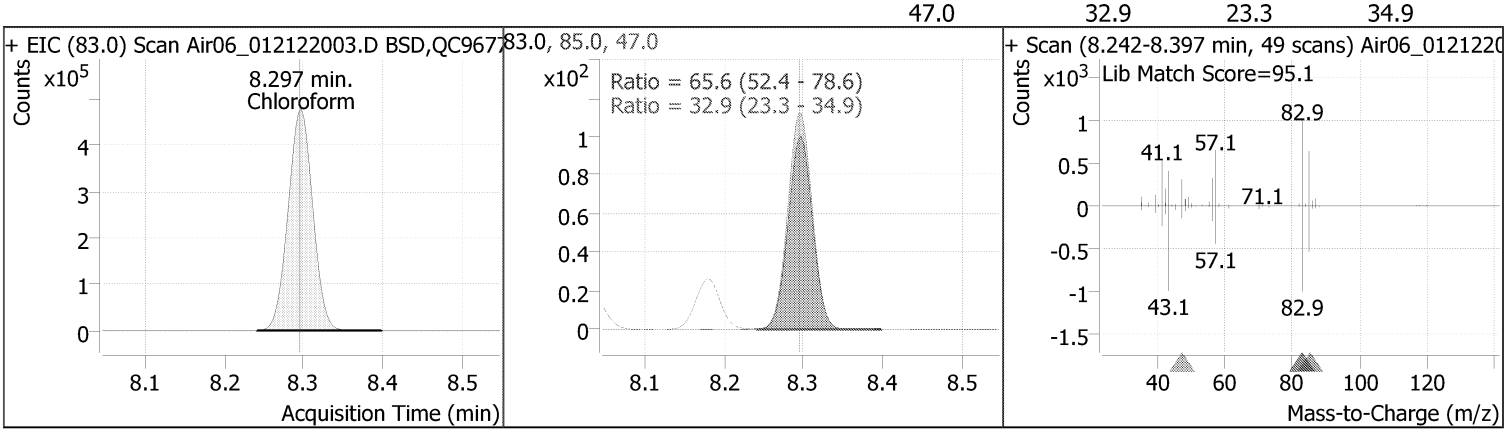

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 9.9231 | 8.25 | 0.00 | 880770 | 41.0 | 83.3 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.4 | 40.3 | 60.5 |



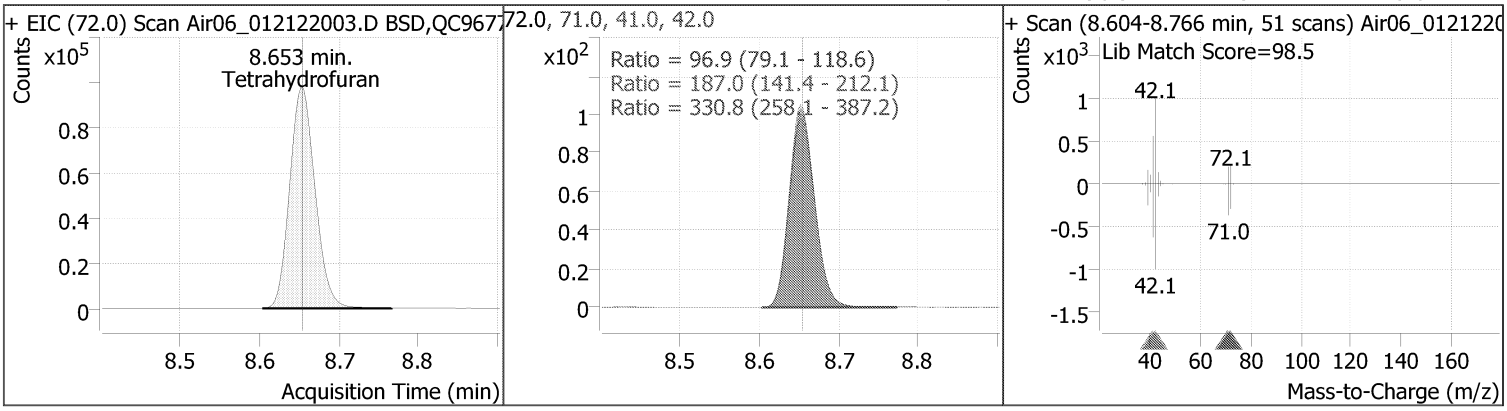



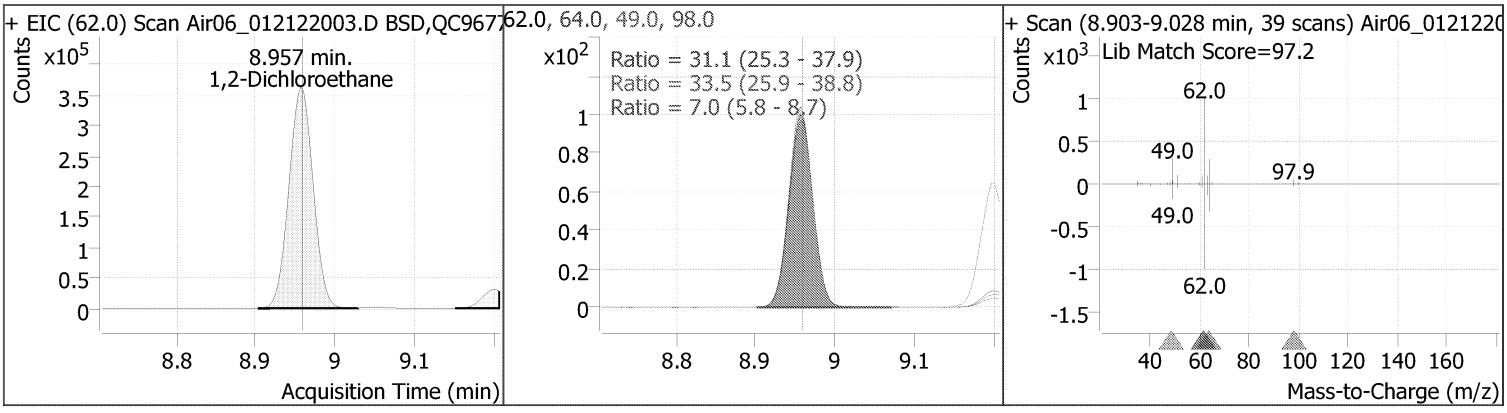
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 10.2490 | 8.30 | 0.00 | 1025810 | 85.0 | 65.6 | 52.4 | 78.6 |
| | | | | | 47.0 | 32.9 | 23.3 | 34.9 |



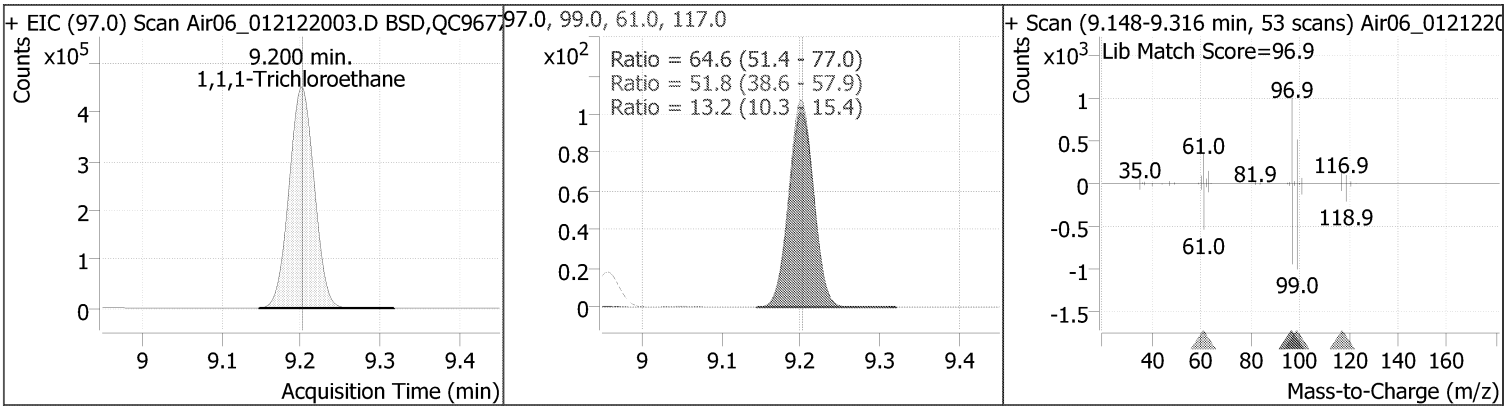

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 9.8598 | 8.65 | 0.00 | 217679 | 42.0 | 330.8 | 258.1 | 387.2 |
| | | | | | 41.0 | 187.0 | 141.4 | 212.1 |
| | | | | | 71.0 | 96.9 | 79.1 | 118.6 |



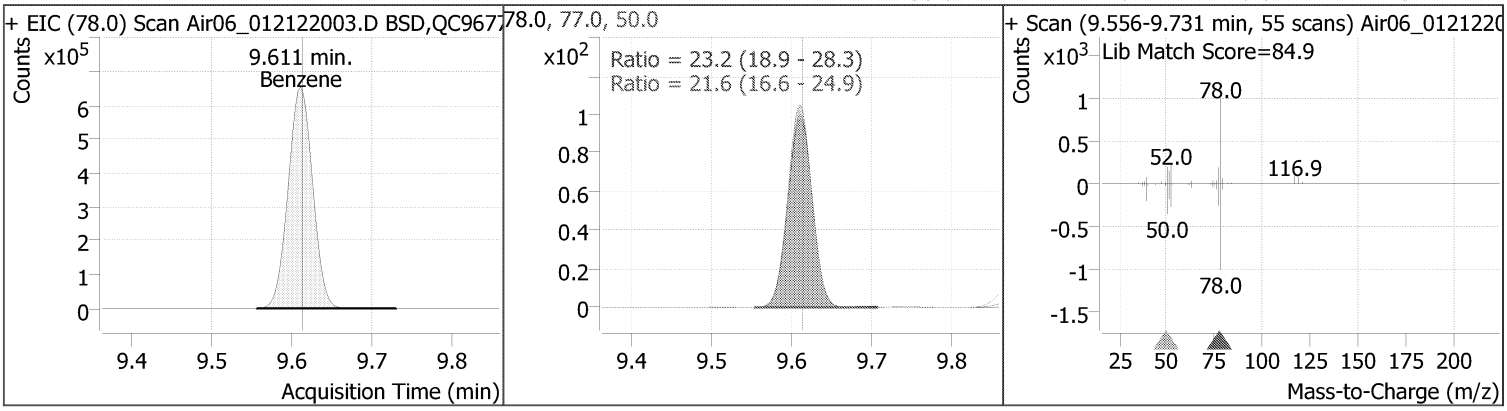

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 10.4481 | 8.96 | 0.00 | 765721 | 49.0 | 33.5 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.1 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.0 | 5.8 | 8.7 |



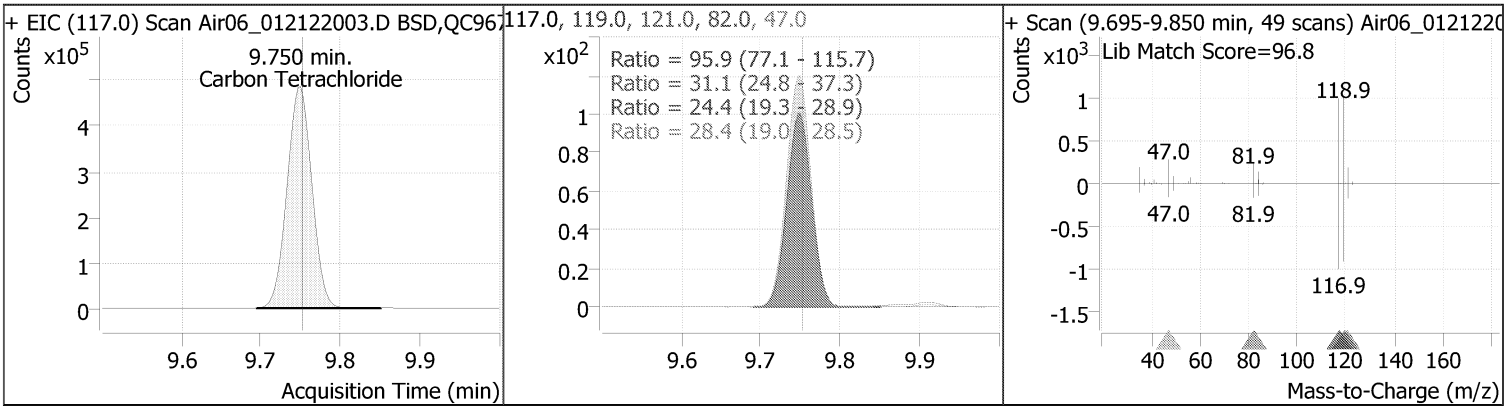
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 10.3010 | 9.20 | 0.00 | 997278 | 99.0 | 64.6 | 51.4 | 77.0 |
| | | | | | 61.0 | 51.8 | 38.6 | 57.9 |
| | | | | | 117.0 | 13.2 | 10.3 | 15.4 |



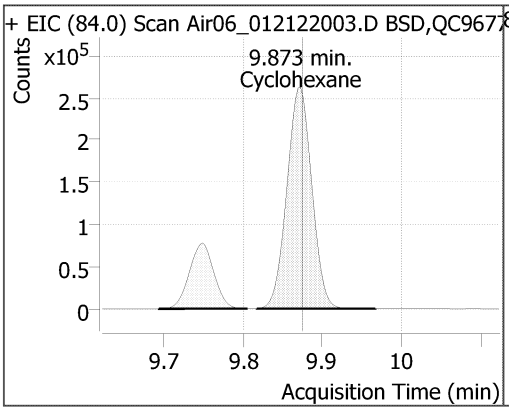

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 9.7143 | 9.61 | 0.00 | 1401626 | 77.0 | 23.2 | 18.9 | 28.3 |
| | | | | | 50.0 | 21.6 | 16.6 | 24.9 |

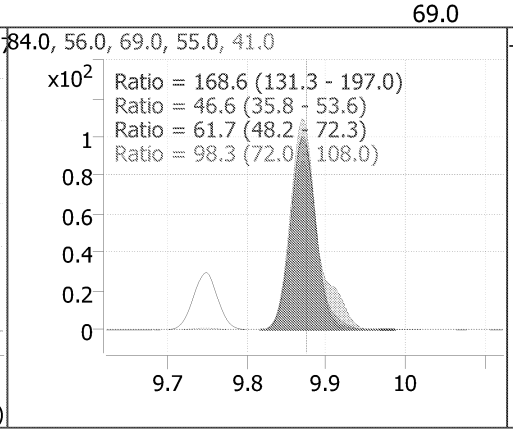


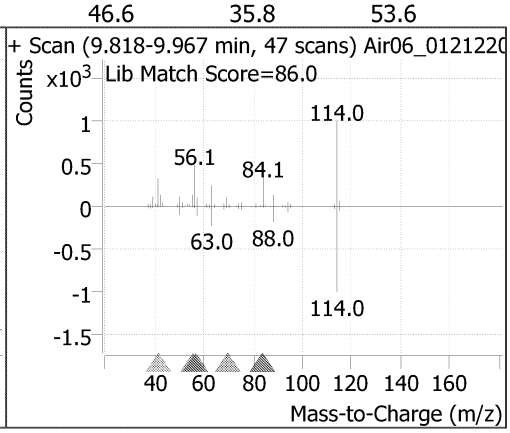

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 10.2471 | 9.75 | 0.00 | 1058377 | 119.0 | 95.9 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.1 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.4 | 19.3 | 28.9 |
| | | | | | 47.0 | 28.4 | 19.0 | 28.5 |



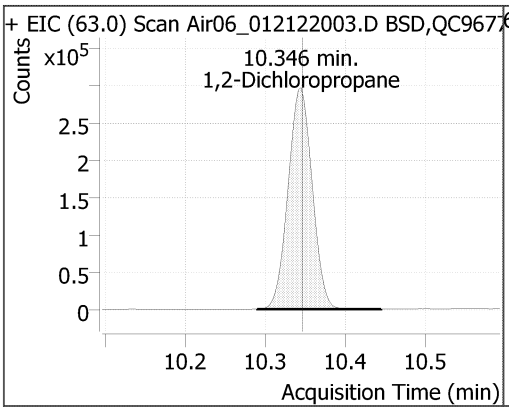
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 9.4951 | 9.87 | 0.00 | 572378 | 56.0 | 168.6 | 131.3 | 197.0 |
| | | | | | 41.0 | 98.3 | 72.0 | 108.0 |
| | | | | | 55.0 | 61.7 | 48.2 | 72.3 |
| | | | | | 69.0 | 46.6 | 35.8 | 53.6 |

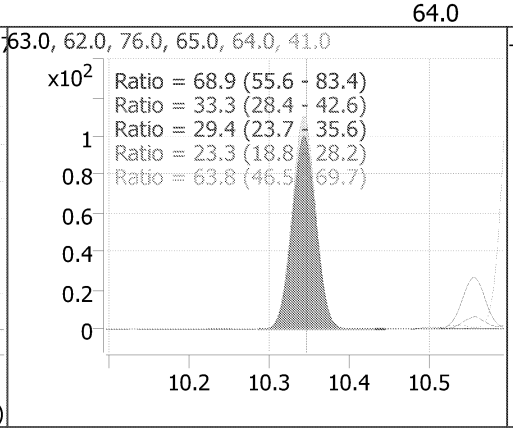


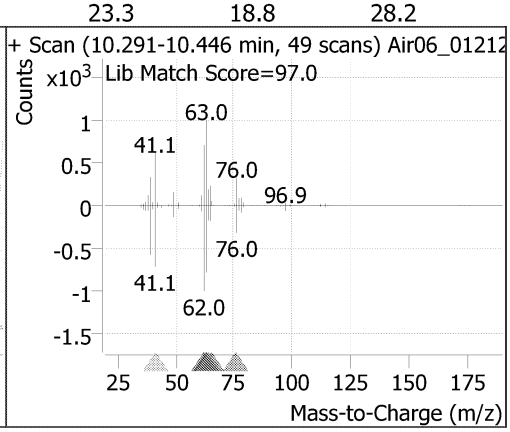



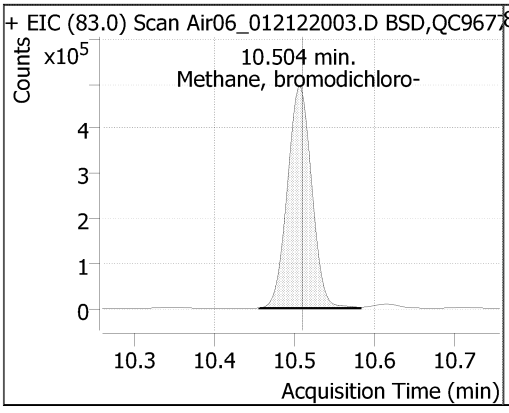

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 9.1869 | 10.35 | 0.00 | 628304 | 62.0 | 68.9 | 55.6 | 83.4 |
| | | | | | 41.0 | 63.8 | 46.5 | 69.7 |
| | | | | | 76.0 | 33.3 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.4 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.3 | 18.8 | 28.2 |

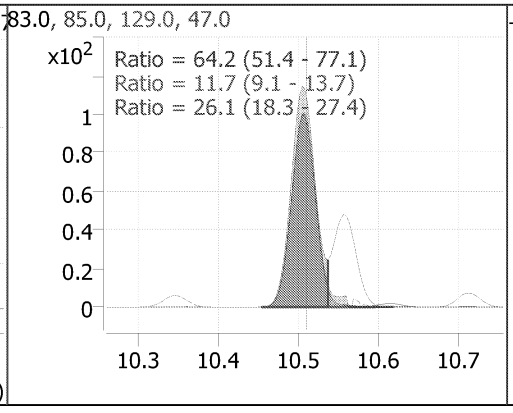


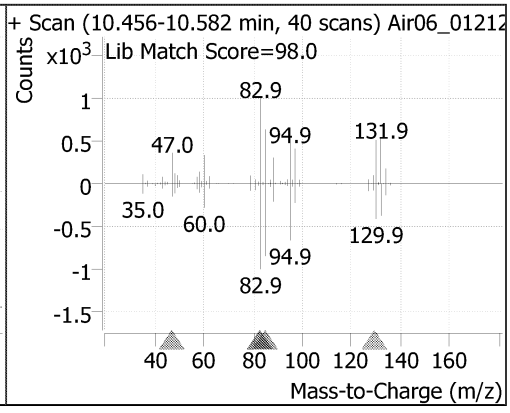



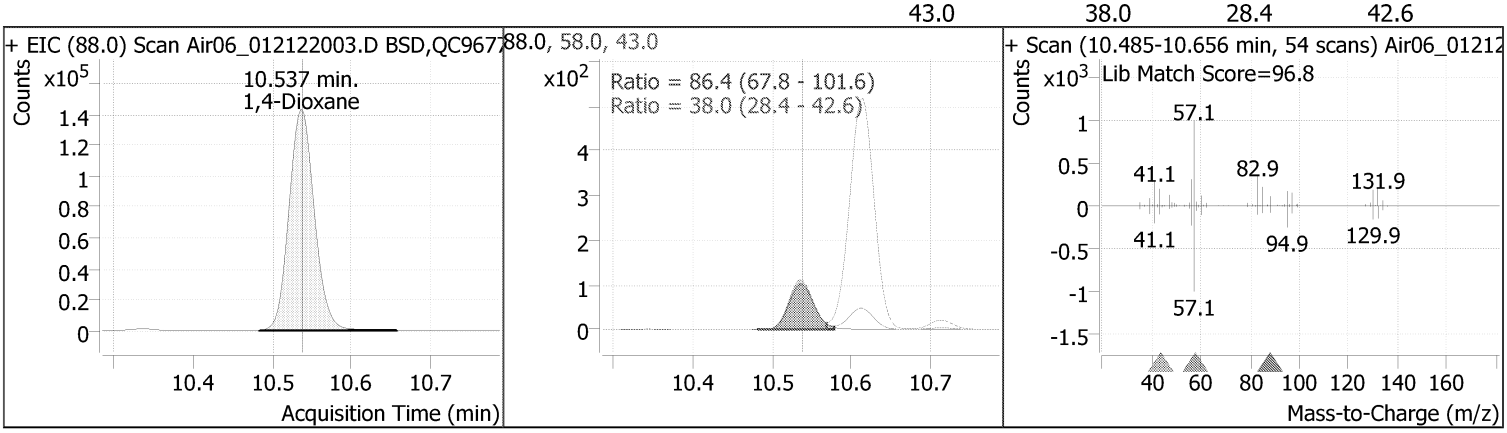

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 9.4413 | 10.50 | 0.00 | 1053599 | 85.0 | 64.2 | 51.4 | 77.1 |
| | | | | | 47.0 | 26.1 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.7 | 9.1 | 13.7 |



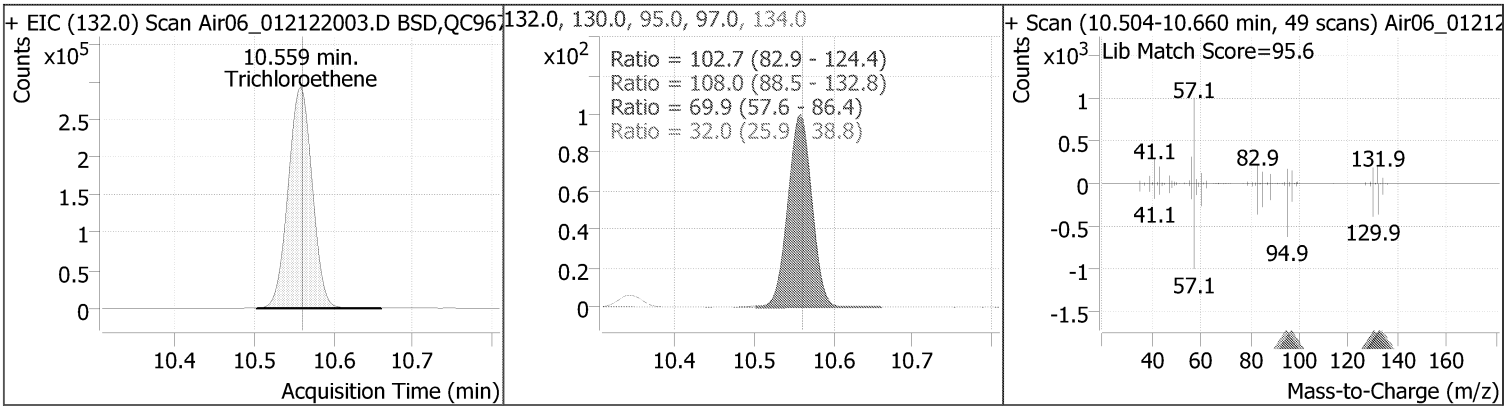



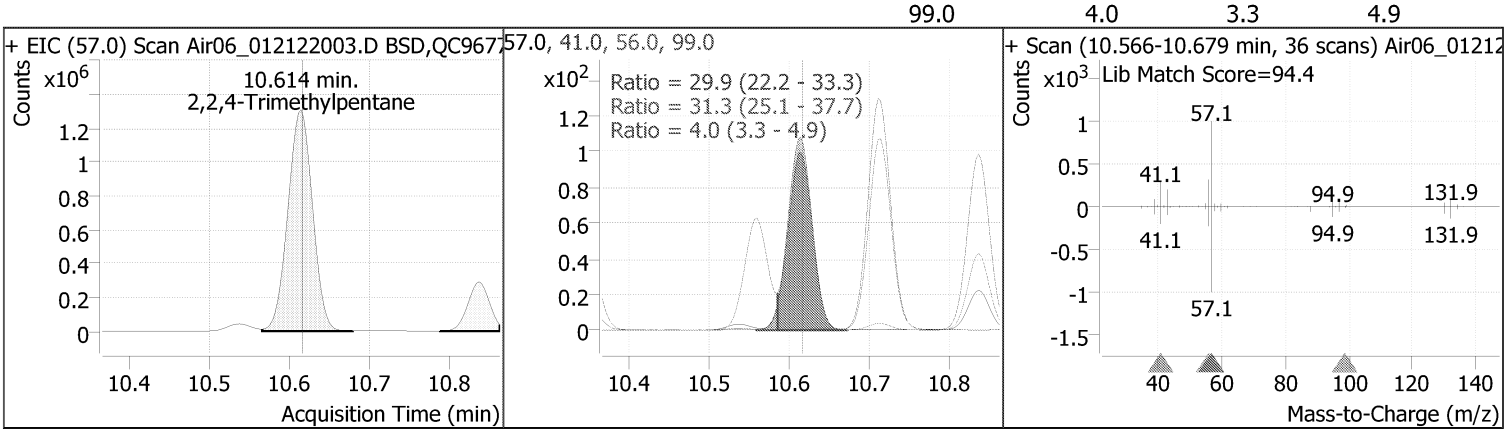
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 8.8742 | 10.54 | 0.00 | 316715 | 58.0 | 86.4 | 67.8 | 101.6 |
| | | | | | 43.0 | 38.0 | 28.4 | 42.6 |



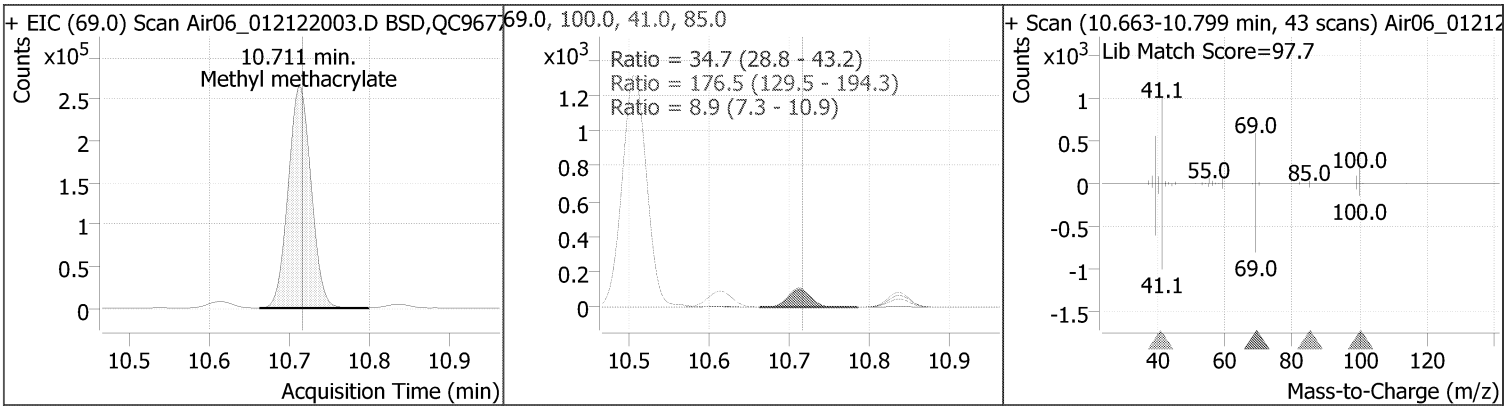

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 8.8322 | 10.56 | 0.00 | 614483 | 95.0 | 108.0 | 88.5 | 132.8 |
| | | | | | 130.0 | 102.7 | 82.9 | 124.4 |
| | | | | | 97.0 | 69.9 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.0 | 25.9 | 38.8 |



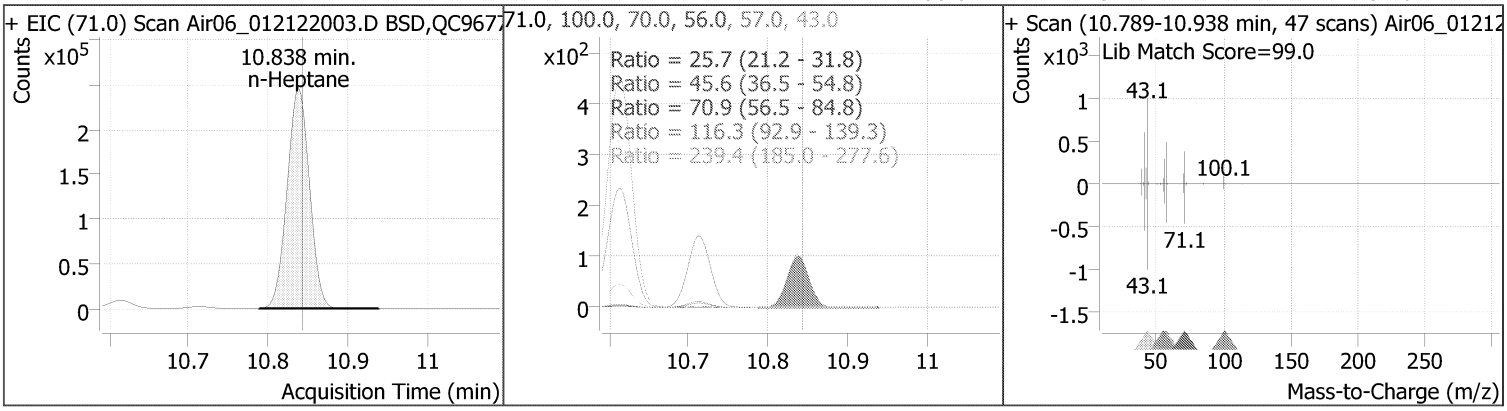

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 9.0394 | 10.61 | 0.00 | 2813536 | 56.0 | 31.3 | 25.1 | 37.7 |
| | | | | | 41.0 | 29.9 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.0 | 3.3 | 4.9 |



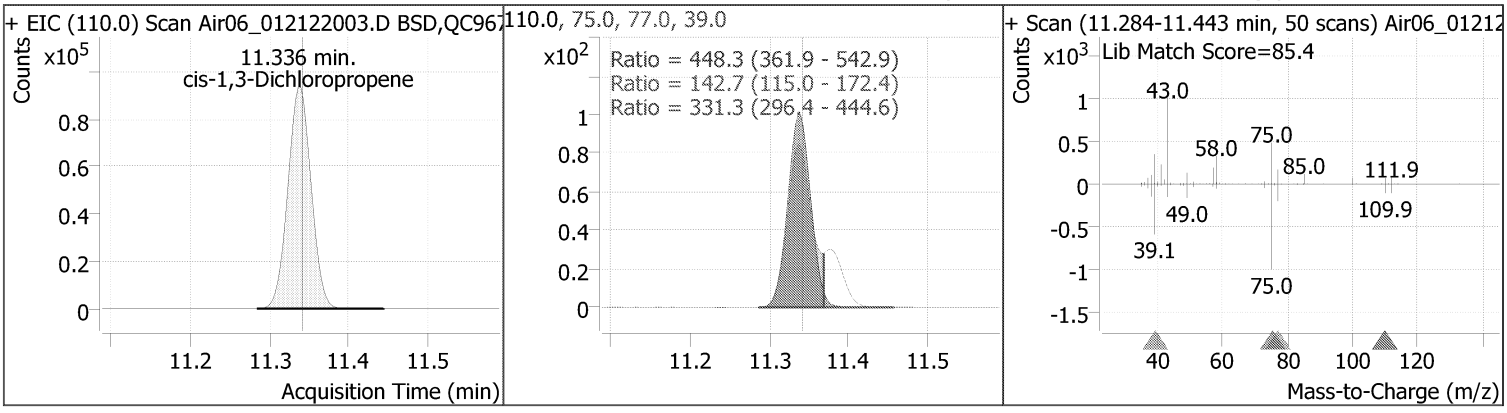
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 9.1833 | 10.71 | 0.00 | 533141 | 41.0 | 176.5 | 129.5 | 194.3 |
| | | | | | 100.0 | 34.7 | 28.8 | 43.2 |
| | | | | | 85.0 | 8.9 | 7.3 | 10.9 |



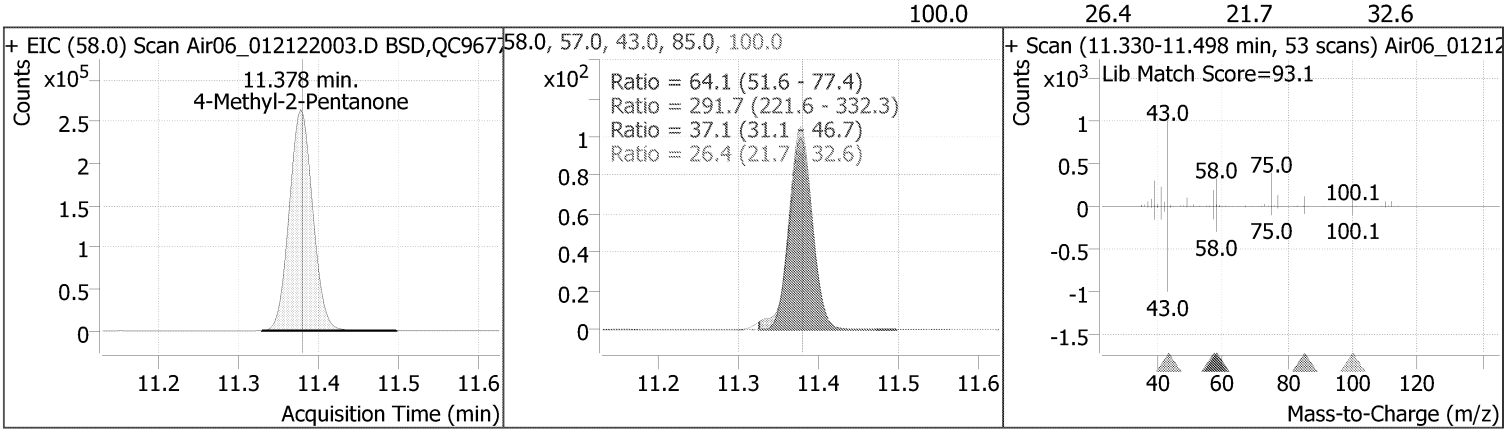

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 8.9403 | 10.84 | 0.00 | 480696 | 43.0 | 239.4 | 185.0 | 277.6 |
| | | | | | 57.0 | 116.3 | 92.9 | 139.3 |
| | | | | | 56.0 | 70.9 | 56.5 | 84.8 |
| | | | | | 70.0 | 45.6 | 36.5 | 54.8 |
| | | | | | 100.0 | 25.7 | 21.2 | 31.8 |



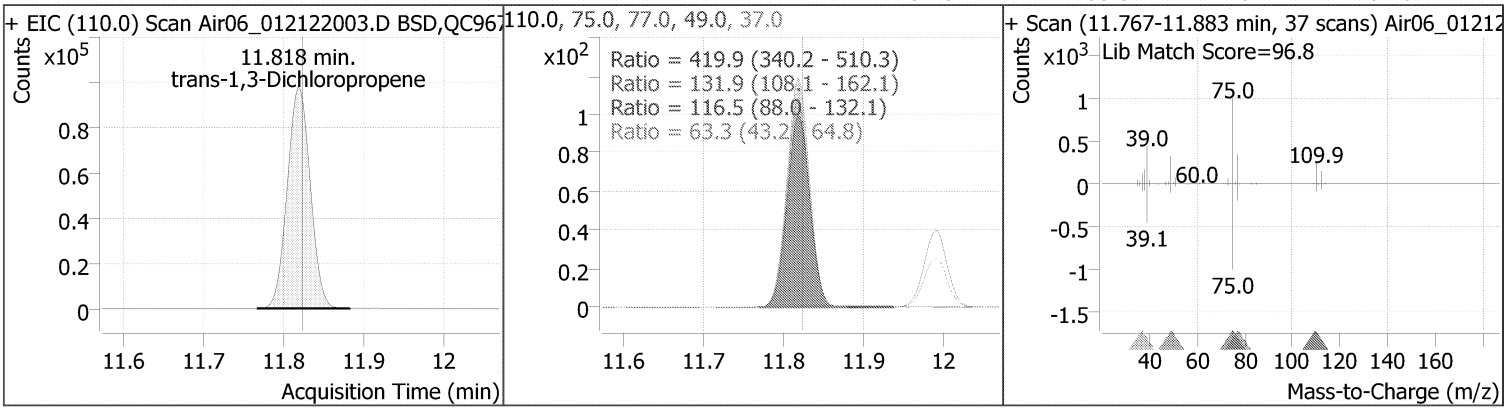

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 8.7586 | 11.34 | 0.00 | 190155 | 75.0 | 448.3 | 361.9 | 542.9 |
| | | | | | 39.0 | 331.3 | 296.4 | 444.6 |
| | | | | | 77.0 | 142.7 | 115.0 | 172.4 |



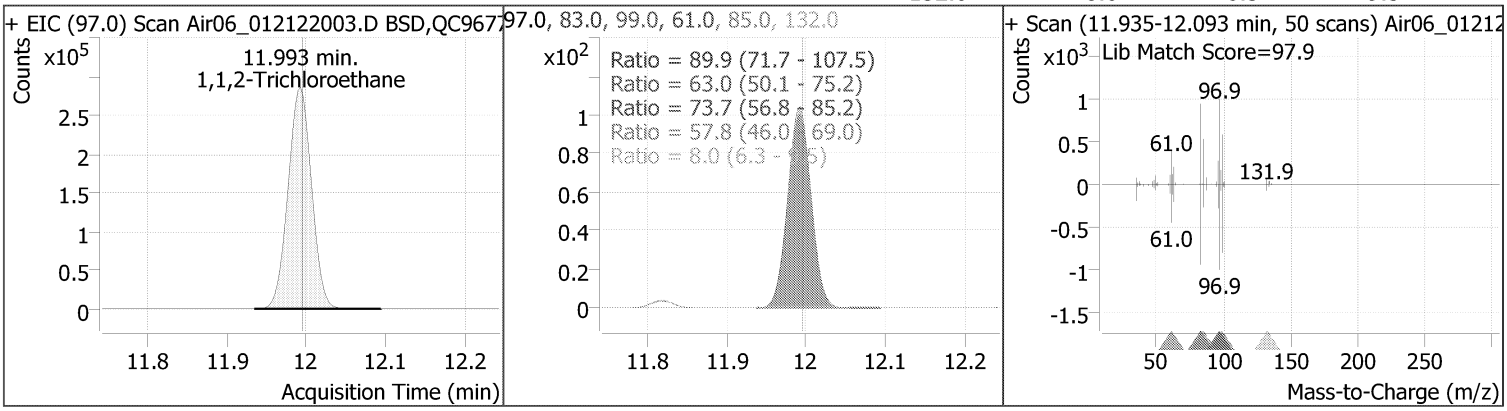
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 9.0391 | 11.38 | 0.00 | 542205 | 43.0 | 291.7 | 221.6 | 332.3 |
| | | | | | 57.0 | 64.1 | 51.6 | 77.4 |
| | | | | | 85.0 | 37.1 | 31.1 | 46.7 |
| | | | | | 100.0 | 26.4 | 21.7 | 32.6 |



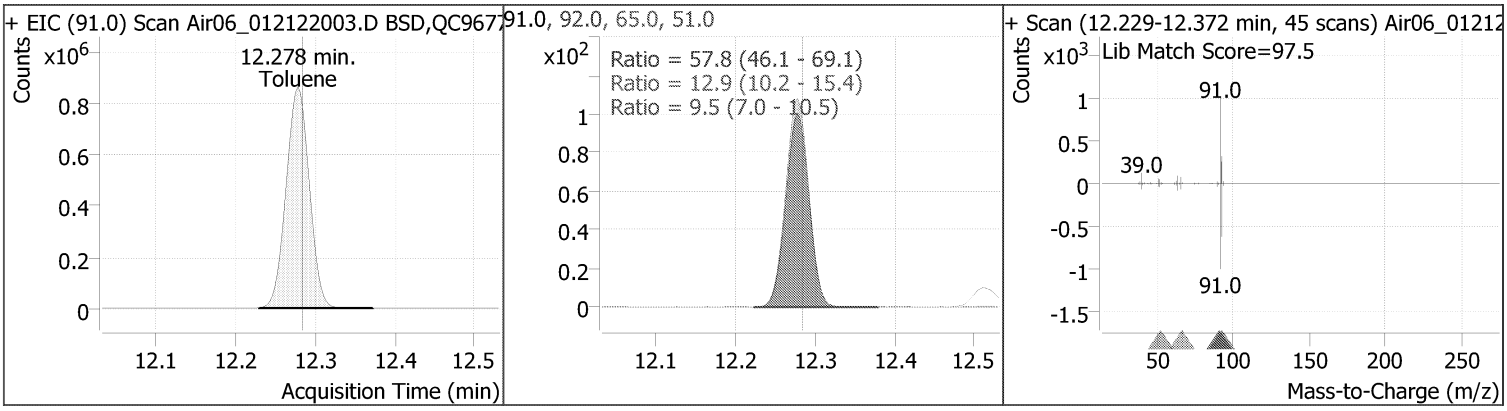

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 8.8662 | 11.82 | 0.00 | 197359 | 75.0 | 419.9 | 340.2 | 510.3 |
| | | | | | 77.0 | 131.9 | 108.1 | 162.1 |
| | | | | | 49.0 | 116.5 | 88.0 | 132.1 |
| | | | | | 37.0 | 63.3 | 43.2 | 64.8 |



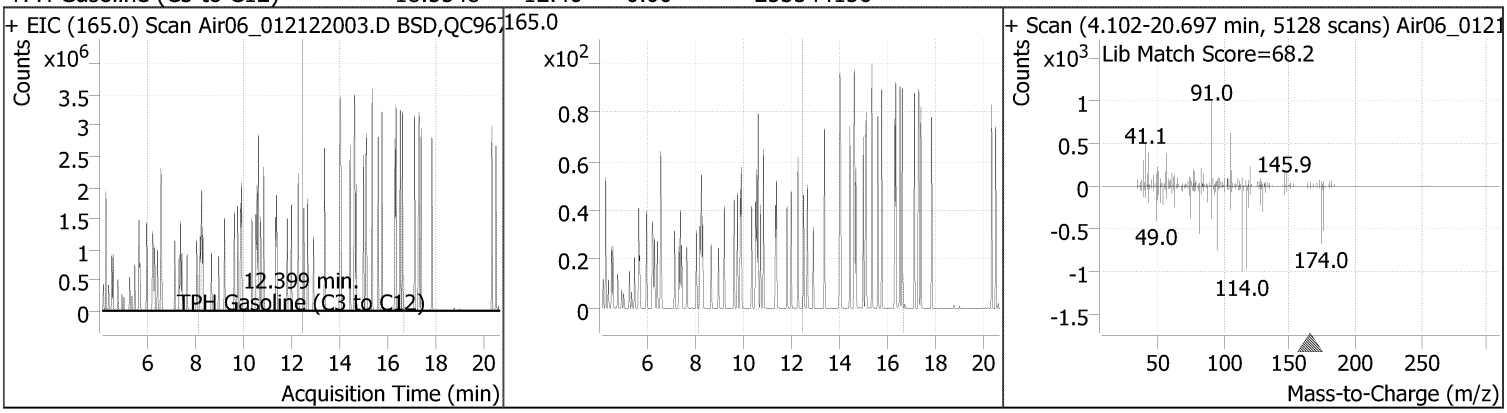

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 9.0410 | 11.99 | 0.00 | 588843 | 83.0 | 89.9 | 71.7 | 107.5 |
| | | | | | 61.0 | 73.7 | 56.8 | 85.2 |
| | | | | | 99.0 | 63.0 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.8 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.0 | 6.3 | 9.5 |



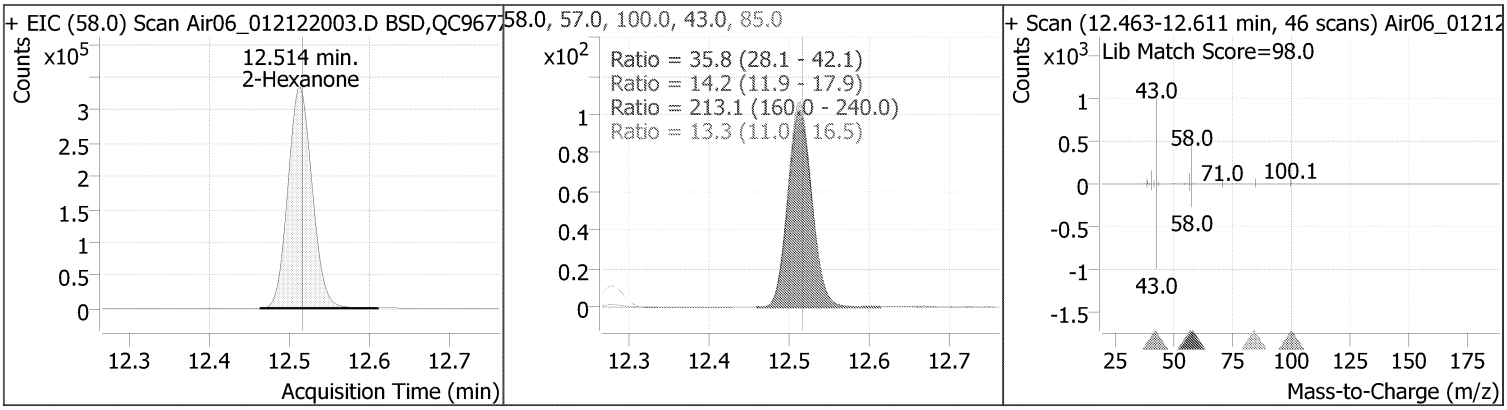
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 8.8553 | 12.28 | 0.00 | 1752514 | 92.0 | 57.8 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.9 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.5 | 7.0 | 10.5 |



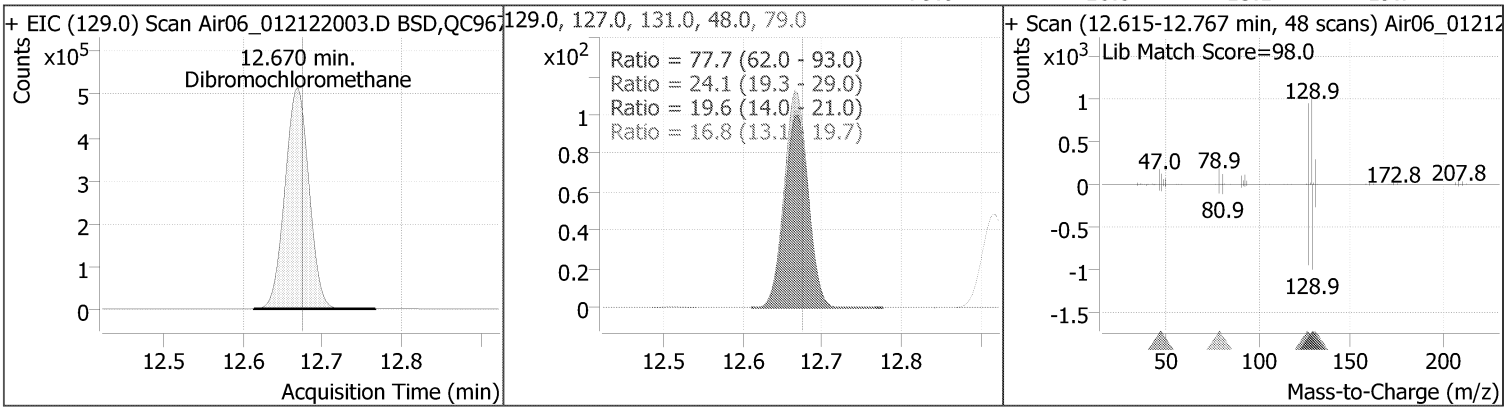

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 18.5548 | 12.40 | 0.00 | 253344156 | | | | |



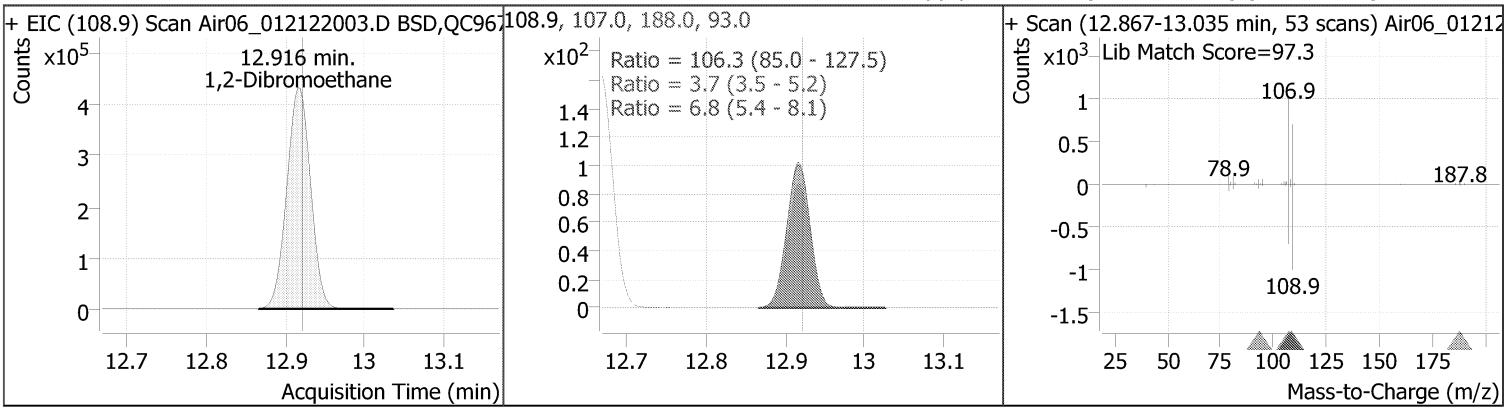

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 9.2268 | 12.51 | 0.00 | 710867 | 43.0 | 213.1 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.8 | 28.1 | 42.1 |
| | | | | | 100.0 | 14.2 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.3 | 11.0 | 16.5 |



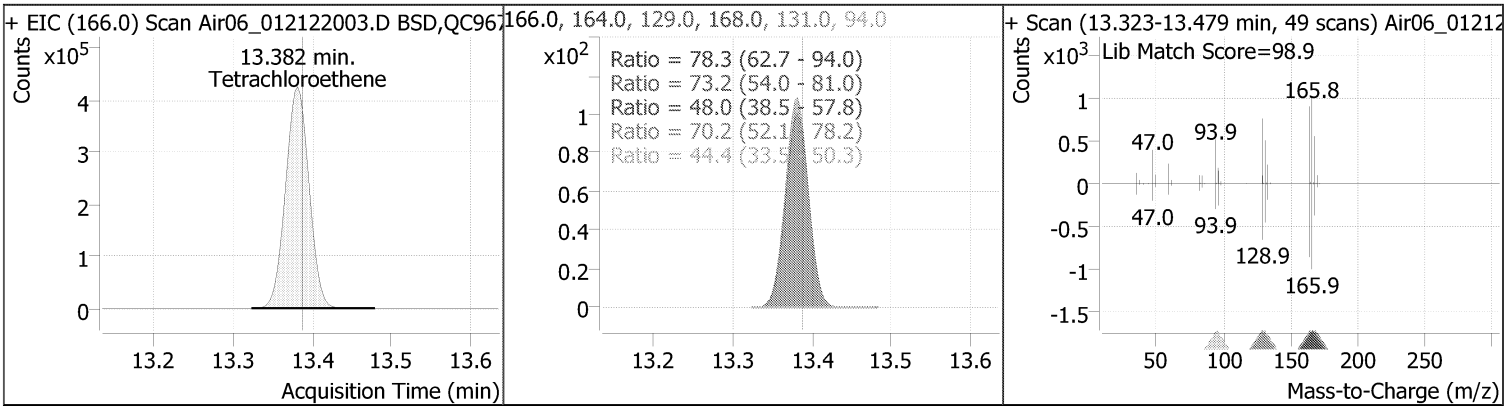
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 9.1919 | 12.67 | 0.00 | 1086833 | 127.0 | 77.7 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.1 | 19.3 | 29.0 |
| | | | | | 48.0 | 19.6 | 14.0 | 21.0 |
| | | | | | 79.0 | 16.8 | 13.1 | 19.7 |



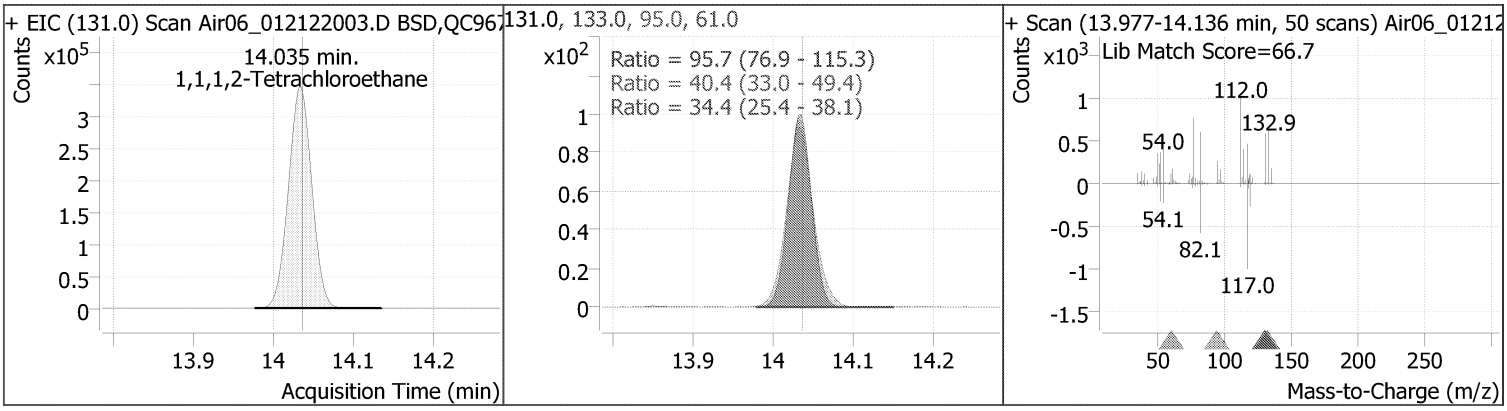

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 9.0569 | 12.92 | 0.00 | 907503 | 107.0 | 106.3 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.8 | 5.4 | 8.1 |
| | | | | | 188.0 | 3.7 | 3.5 | 5.2 |



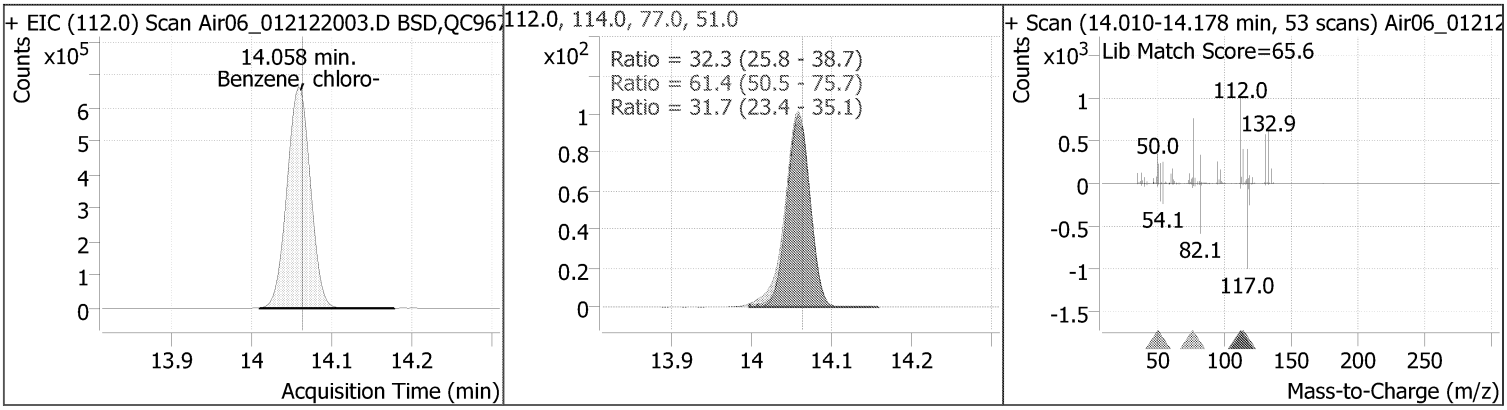

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 8.5070 | 13.38 | 0.00 | 870419 | 164.0 | 78.3 | 62.7 | 94.0 |
| | | | | | 129.0 | 73.2 | 54.0 | 81.0 |
| | | | | | 131.0 | 70.2 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.0 | 38.5 | 57.8 |
| | | | | | 94.0 | 44.4 | 33.5 | 50.3 |



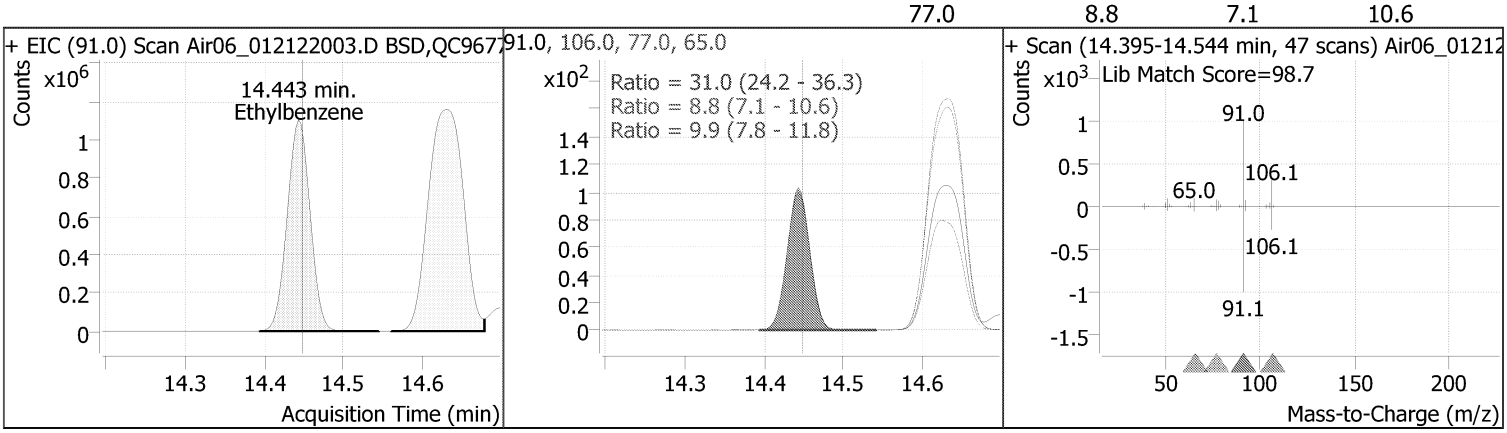
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 9.6621 | 14.04 | 0.00 | 706751 | 133.0 | 95.7 | 76.9 | 115.3 |
| | | | | | 95.0 | 40.4 | 33.0 | 49.4 |
| | | | | | 61.0 | 34.4 | 25.4 | 38.1 |



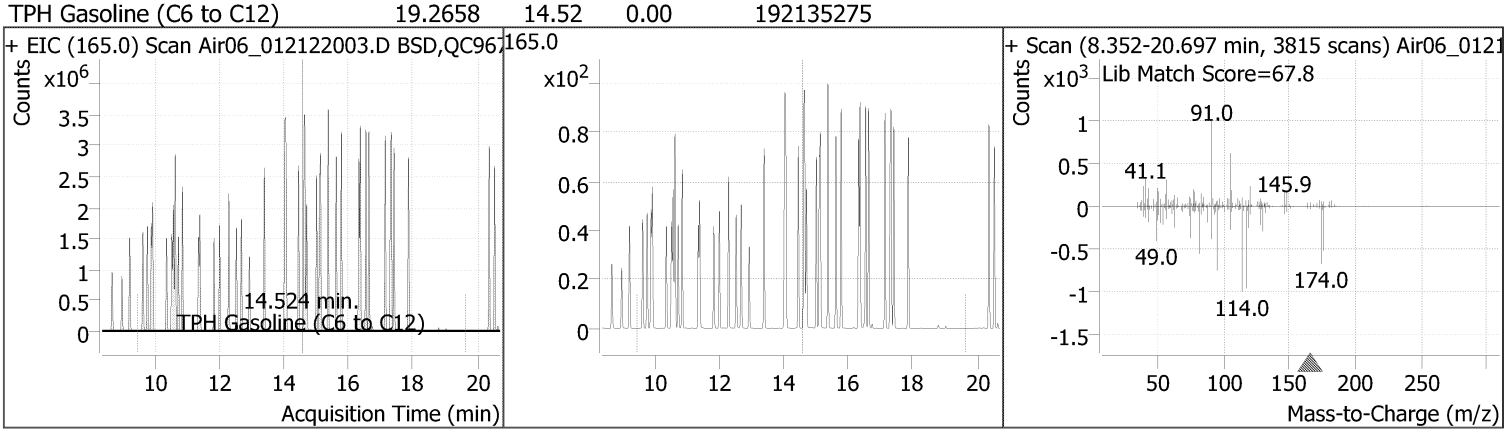

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 9.3565 | 14.06 | 0.00 | 1358124 | 77.0 | 61.4 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.3 | 25.8 | 38.7 |
| | | | | | 51.0 | 31.7 | 23.4 | 35.1 |



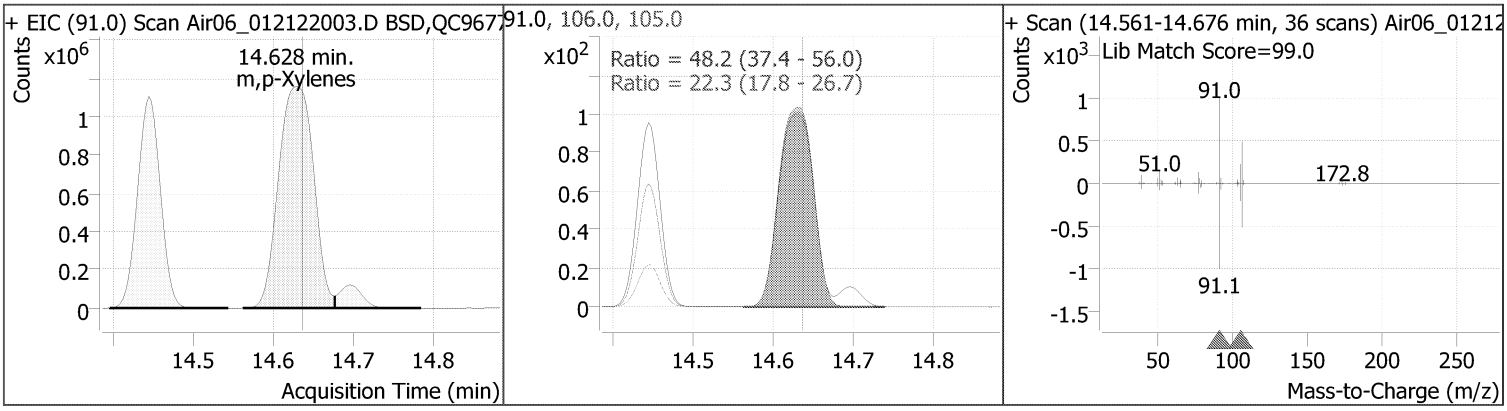

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 9.5627 | 14.44 | 0.00 | 2205226 | 106.0 | 31.0 | 24.2 | 36.3 |
| | | | | | 65.0 | 9.9 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.8 | 7.1 | 10.6 |



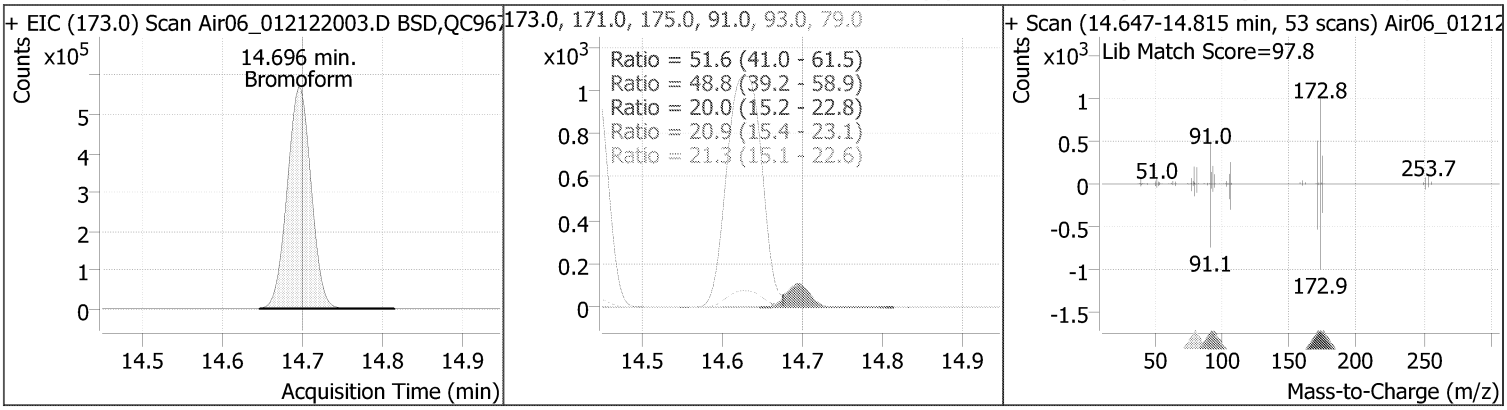
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 19.2658 | 14.52 | 0.00 | 192135275 | | | | |



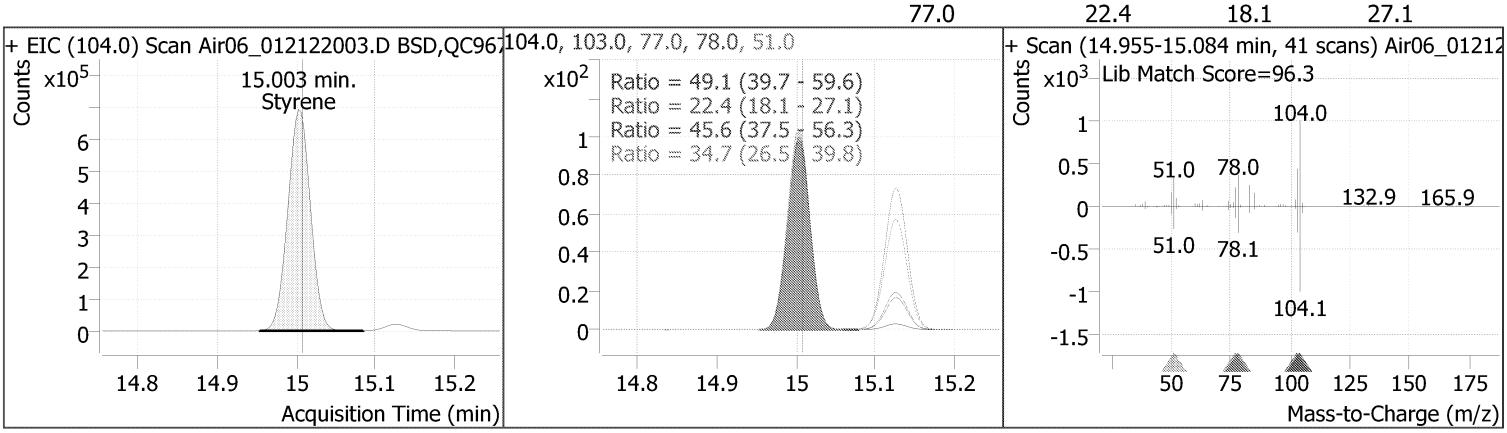

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 19.1051 | 14.63 | -0.01 | 3543302 | 106.0 | 48.2 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.3 | 17.8 | 26.7 |



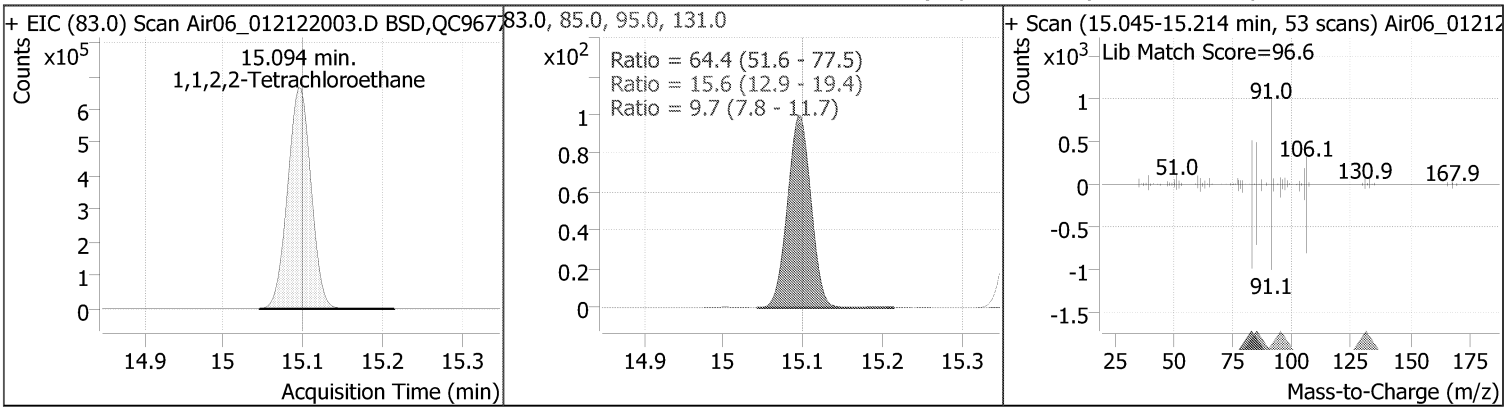

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 9.3667 | 14.70 | 0.00 | 1189836 | 171.0 | 51.6 | 41.0 | 61.5 |
| | | | | | 175.0 | 48.8 | 39.2 | 58.9 |
| | | | | | 93.0 | 20.9 | 15.4 | 23.1 |
| | | | | | 91.0 | 20.0 | 15.2 | 22.8 |
| | | | | | 79.0 | 21.3 | 15.1 | 22.6 |



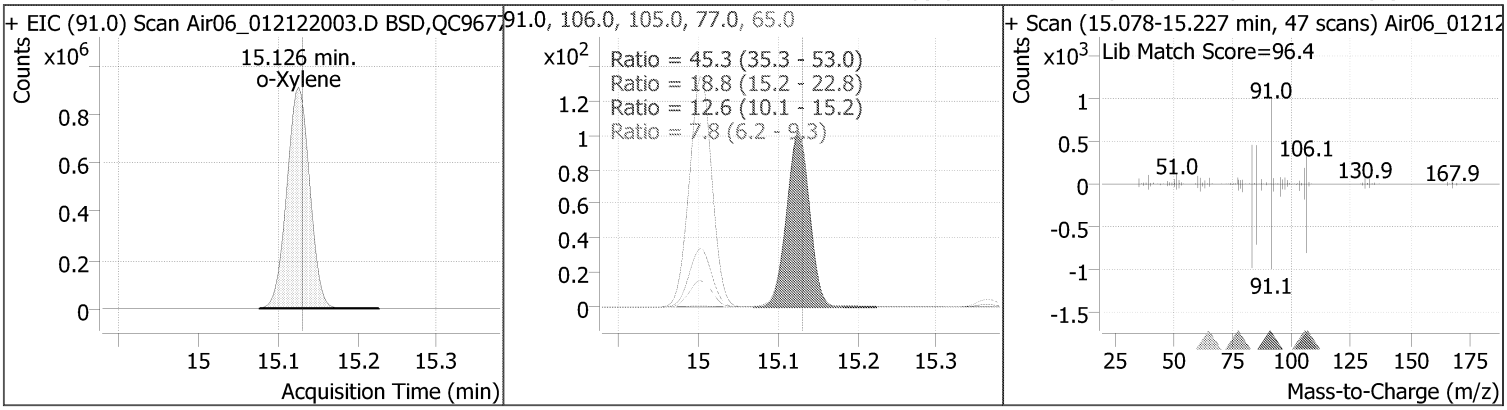
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 9.2975 | 15.00 | 0.00 | 1366491 | 103.0 | 49.1 | 39.7 | 59.6 |
| | | | | | 78.0 | 45.6 | 37.5 | 56.3 |
| | | | | | 51.0 | 34.7 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.4 | 18.1 | 27.1 |



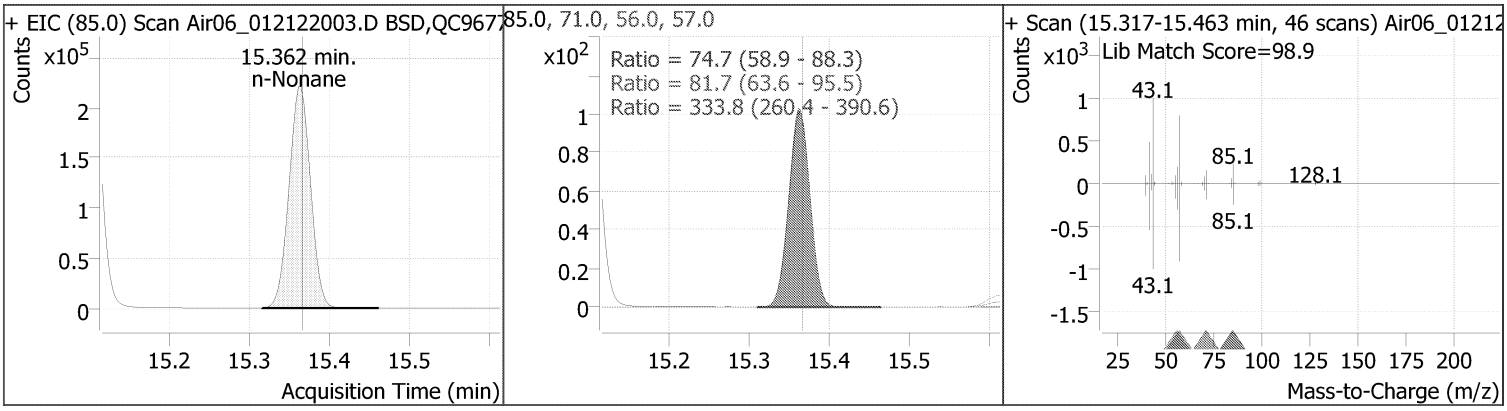

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 9.7521 | 15.09 | 0.00 | 1366749 | 85.0 | 64.4 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.6 | 12.9 | 19.4 |
| | | | | | 131.0 | 9.7 | 7.8 | 11.7 |



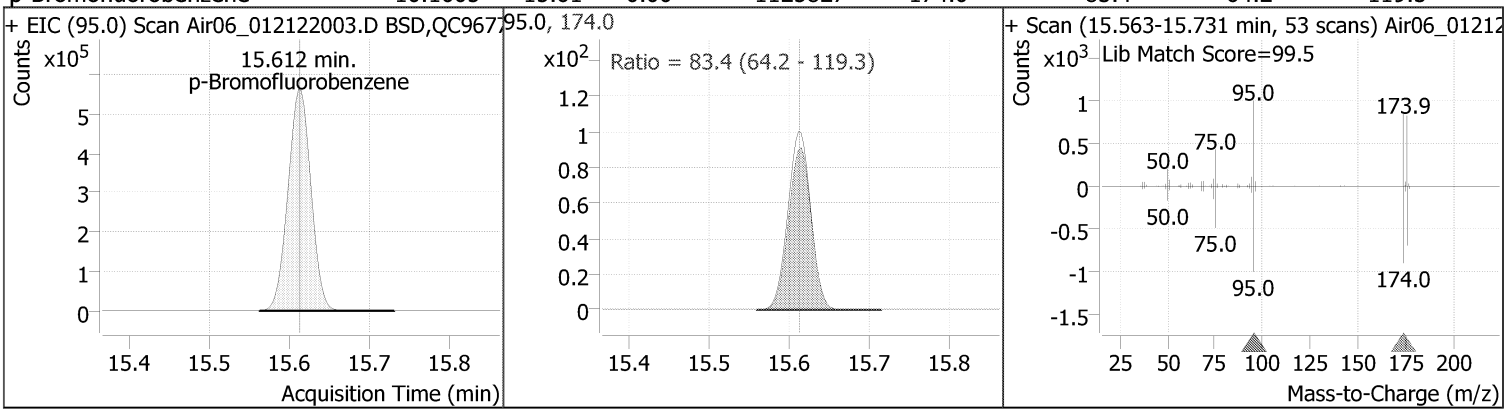

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 9.5654 | 15.13 | 0.00 | 1823909 | 106.0 | 45.3 | 35.3 | 53.0 |
| | | | | | 105.0 | 18.8 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.6 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.8 | 6.2 | 9.3 |



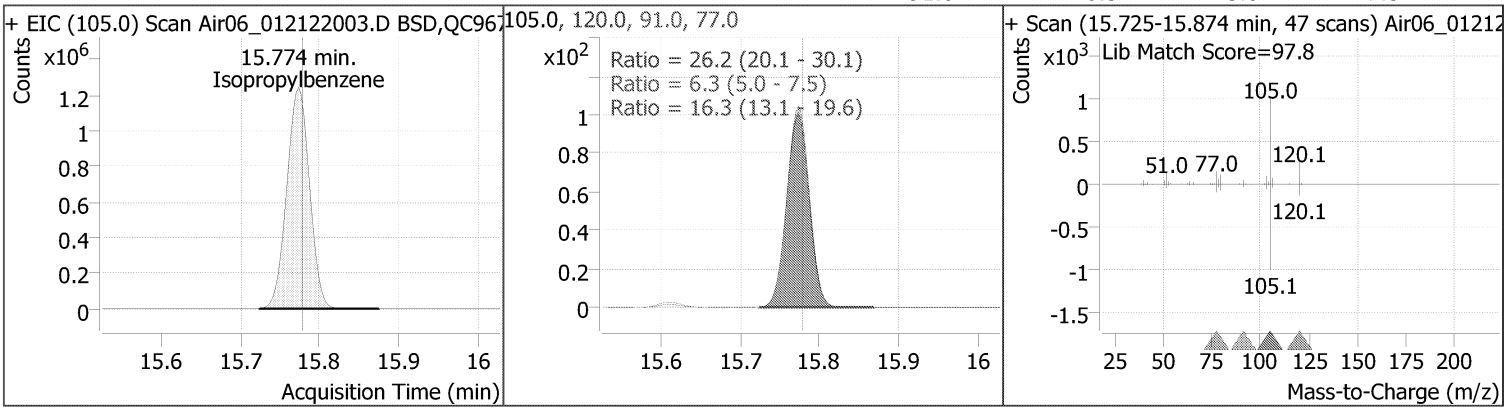
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 9.4252 | 15.36 | 0.00 | 415199 | 57.0 | 333.8 | 260.4 | 390.6 |
| | | | | | 56.0 | 81.7 | 63.6 | 95.5 |
| | | | | | 71.0 | 74.7 | 58.9 | 88.3 |



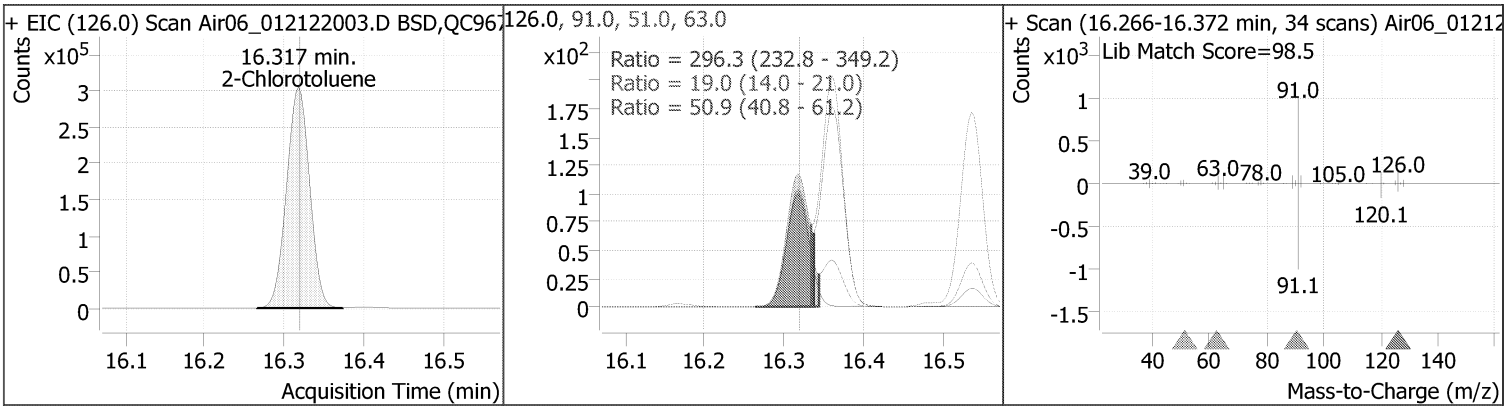

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.1005 | 15.61 | 0.00 | 1125827 | 174.0 | 83.4 | 64.2 | 119.3 |



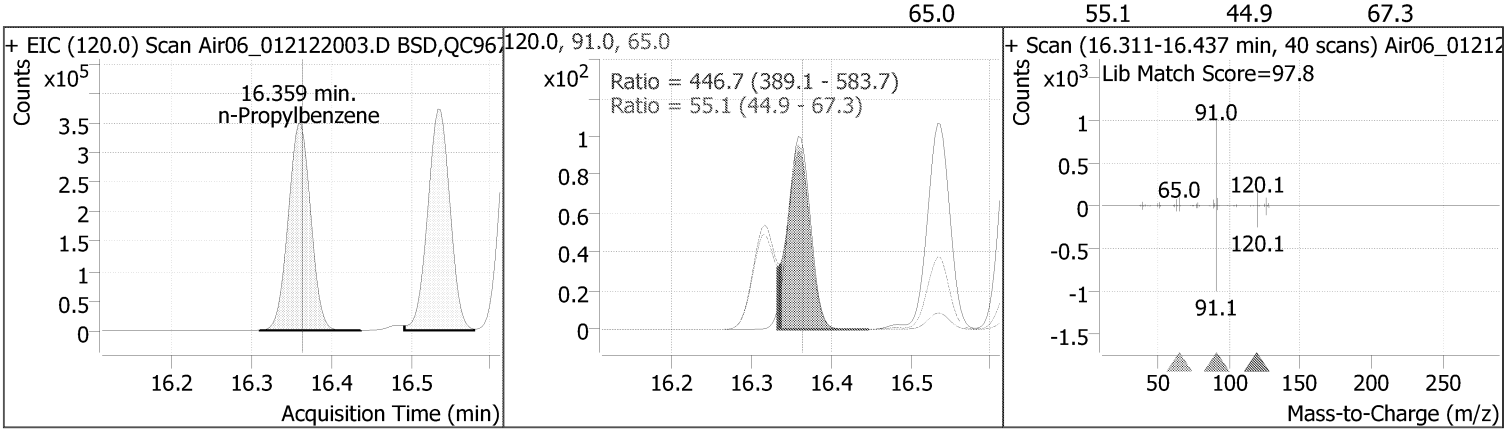

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 9.4191 | 15.77 | 0.00 | 2461991 | 120.0 | 26.2 | 20.1 | 30.1 |
| | | | | | 77.0 | 16.3 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.3 | 5.0 | 7.5 |



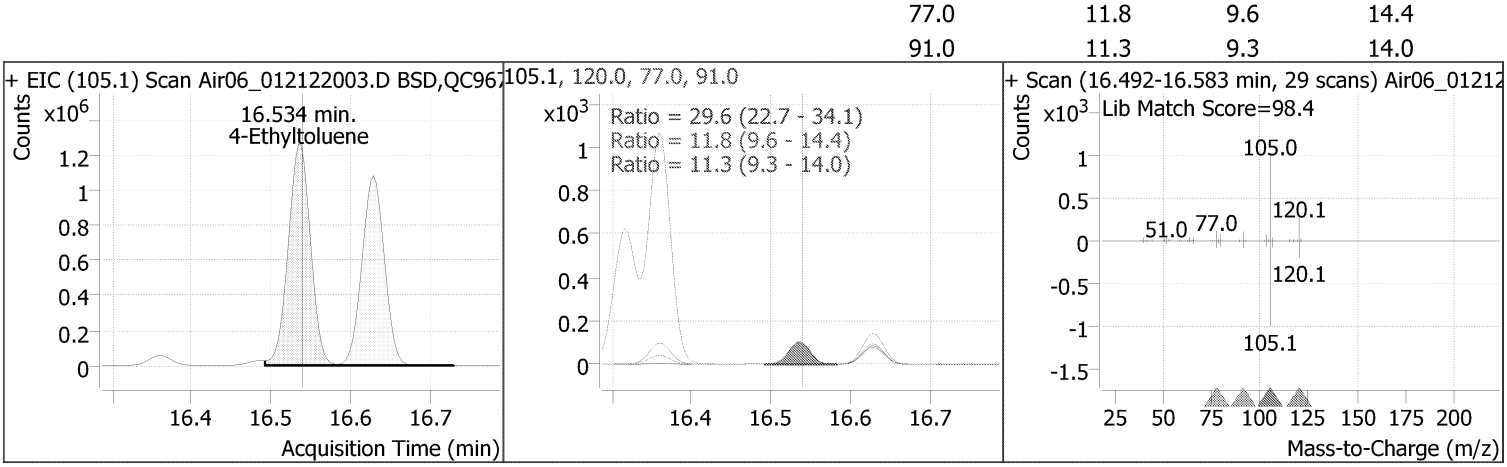
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 9.2230 | 16.32 | 0.00 | 614014 | 91.0 | 296.3 | 232.8 | 349.2 |
| | | | | | 63.0 | 50.9 | 40.8 | 61.2 |
| | | | | | 51.0 | 19.0 | 14.0 | 21.0 |



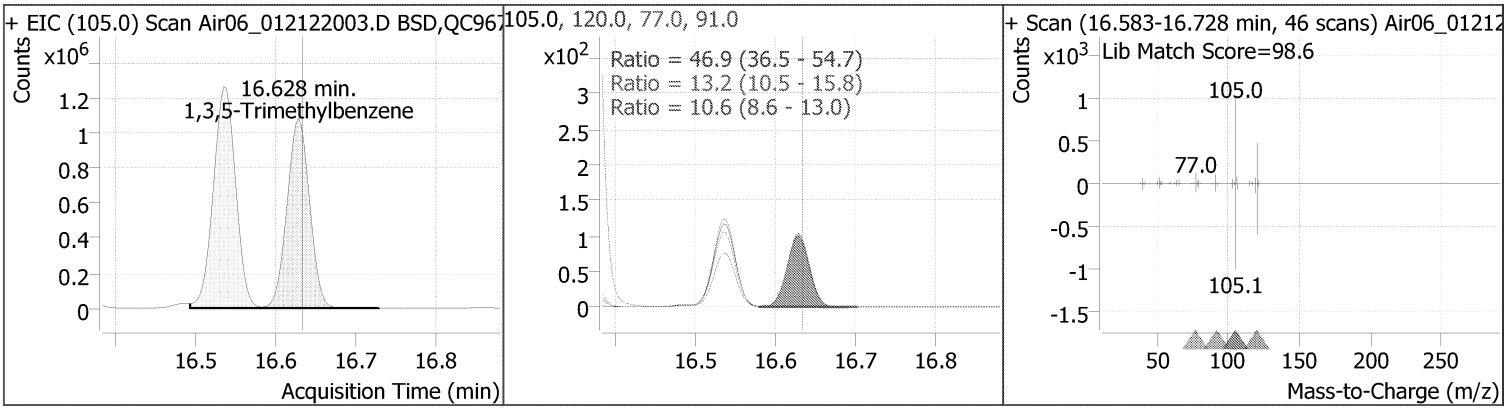

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 9.4119 | 16.36 | 0.00 | 687358 | 91.0 | 446.7 | 389.1 | 583.7 |
| | | | | | 65.0 | 55.1 | 44.9 | 67.3 |



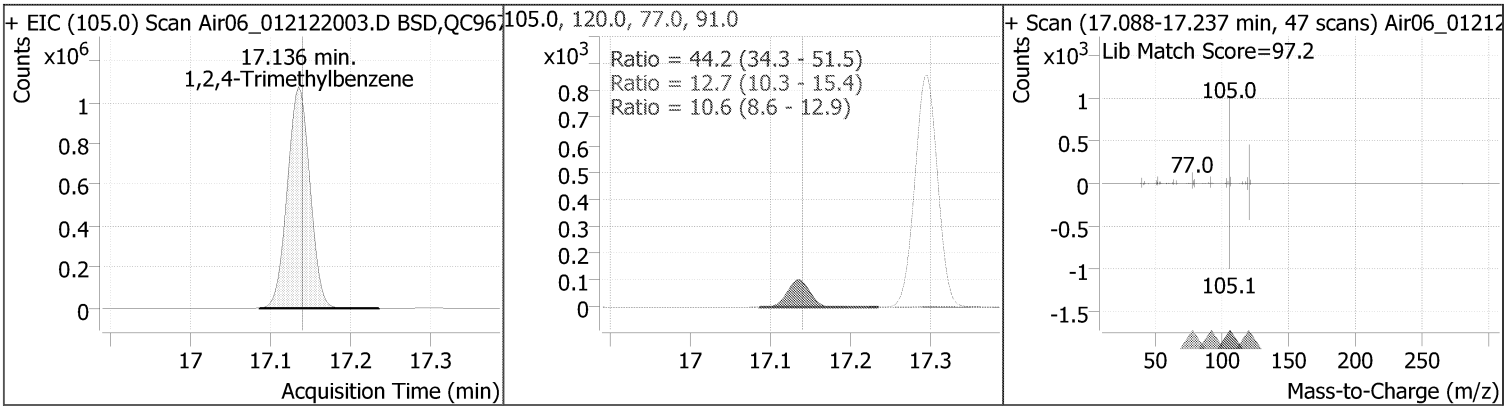

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 9.5135 | 16.53 | 0.00 | 2460796 | 120.0 | 29.6 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.8 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.3 | 9.3 | 14.0 |



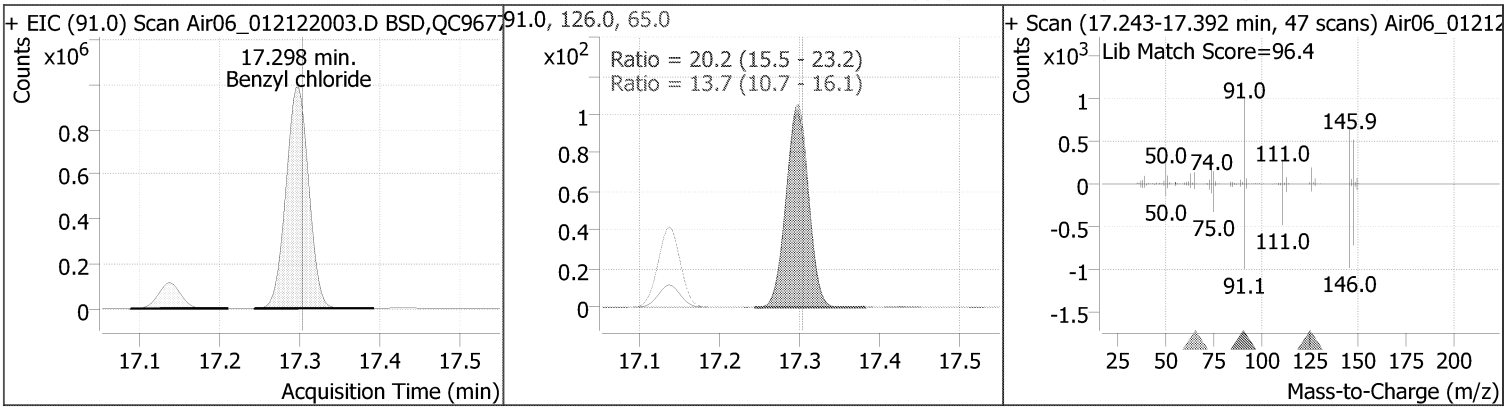
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 9.4965 | 16.63 | 0.00 | 2126429 | 120.0 | 46.9 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.2 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.6 | 8.6 | 13.0 |



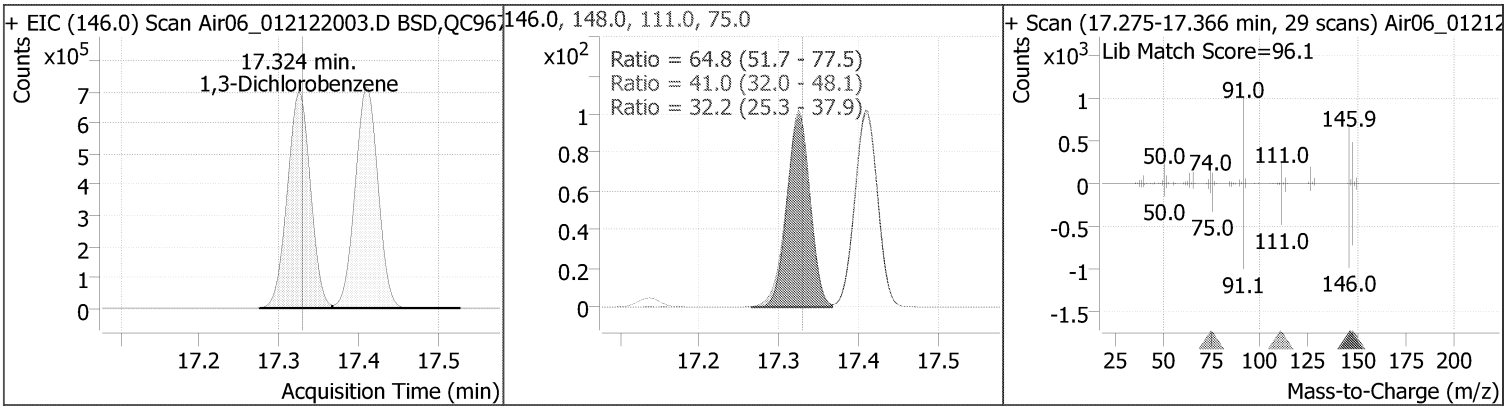

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 9.5261 | 17.14 | 0.00 | 2118603 | 120.0 | 44.2 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.7 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.6 | 8.6 | 12.9 |



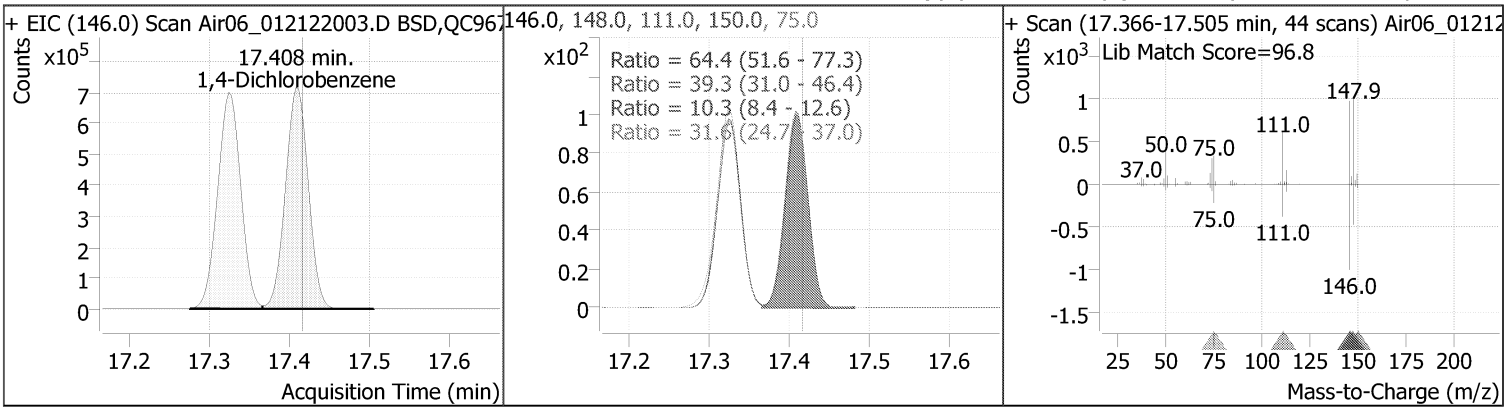

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 10.0479 | 17.30 | 0.00 | 1964899 | 126.0 | 20.2 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.7 | 10.7 | 16.1 |



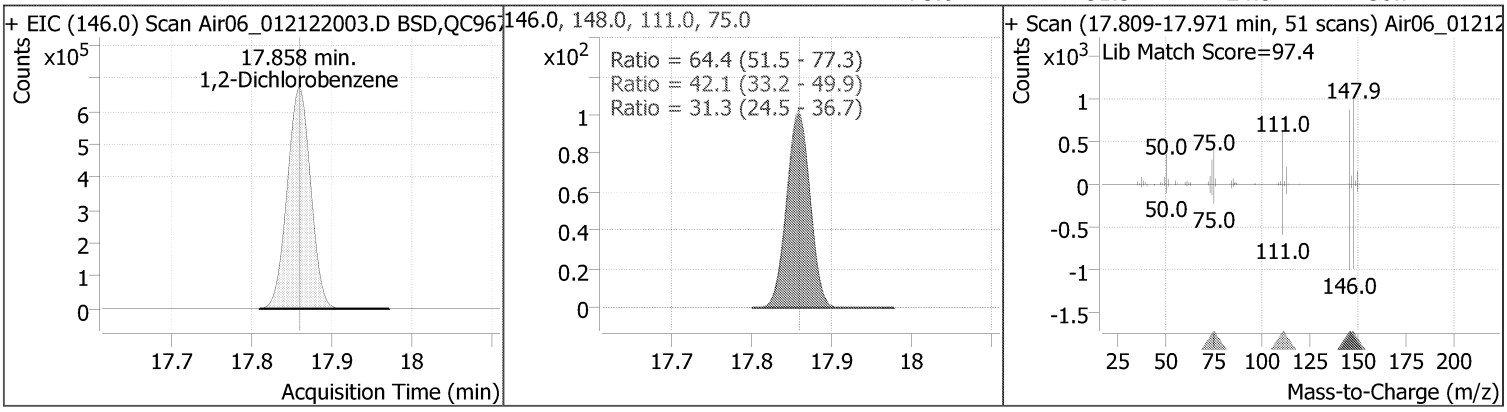
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 9.2666 | 17.32 | 0.00 | 1413583 | 148.0 | 64.8 | 51.7 | 77.5 |
| | | | | | 111.0 | 41.0 | 32.0 | 48.1 |
| | | | | | 75.0 | 32.2 | 25.3 | 37.9 |



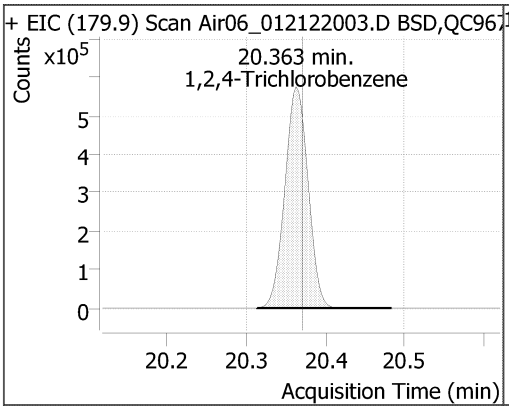

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 9.2722 | 17.41 | -0.01 | 1430281 | 148.0 | 64.4 | 51.6 | 77.3 |
| | | | | | 111.0 | 39.3 | 31.0 | 46.4 |
| | | | | | 75.0 | 31.6 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.3 | 8.4 | 12.6 |

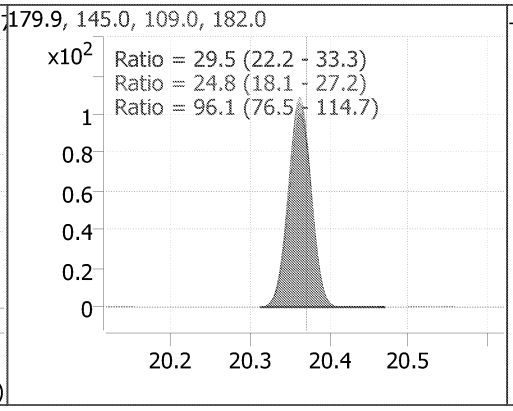


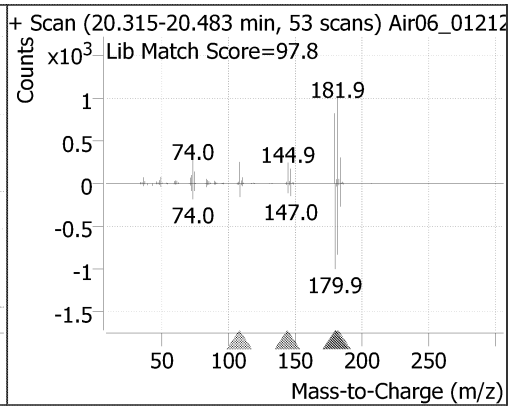

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 9.2716 | 17.86 | 0.00 | 1379466 | 148.0 | 64.4 | 51.5 | 77.3 |
| | | | | | 111.0 | 42.1 | 33.2 | 49.9 |
| | | | | | 75.0 | 31.3 | 24.5 | 36.7 |



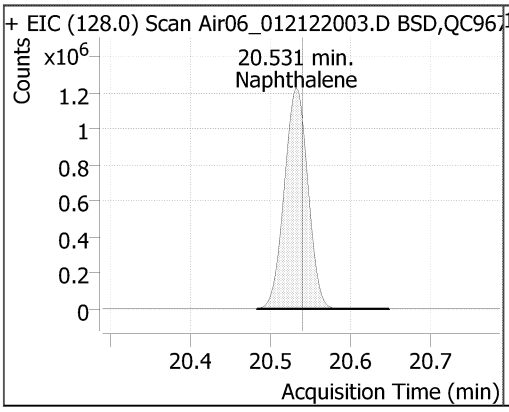
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 9.5007 | 20.36 | -0.01 | 1164797 | 182.0 | 96.1 | 76.5 | 114.7 |
| | | | | | 145.0 | 29.5 | 22.2 | 33.3 |
| | | | | | 109.0 | 24.8 | 18.1 | 27.2 |

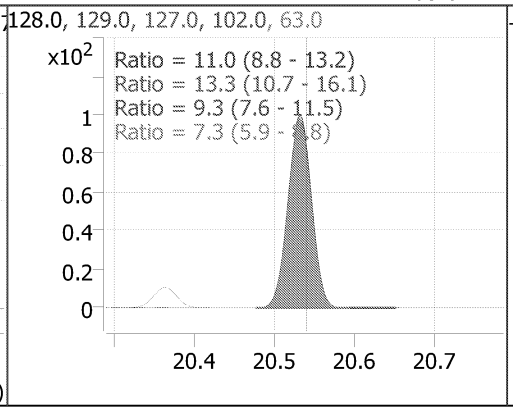


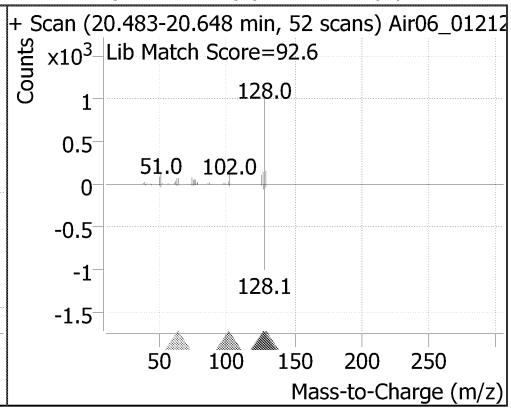



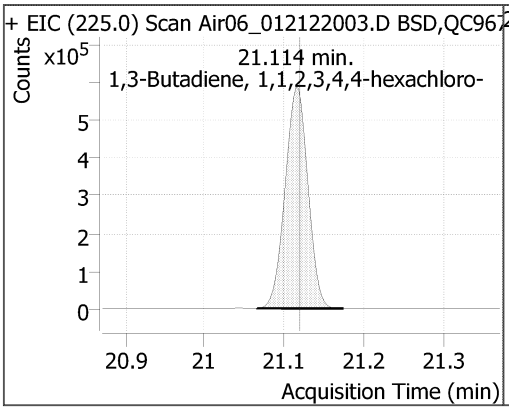

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 9.9732 | 20.53 | -0.01 | 2530776 | 127.0 | 13.3 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.3 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.3 | 5.9 | 8.8 |

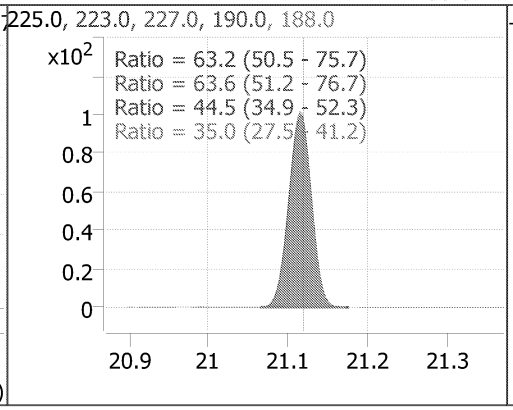


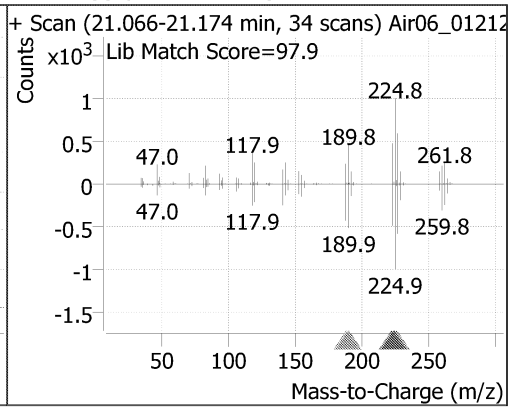




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 8.9057 | 21.11 | -0.01 | 1173261 | 227.0 | 63.6 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.2 | 50.5 | 75.7 |
| | | | | | 190.0 | 44.5 | 34.9 | 52.3 |
| | | | | | 188.0 | 35.0 | 27.5 | 41.2 |

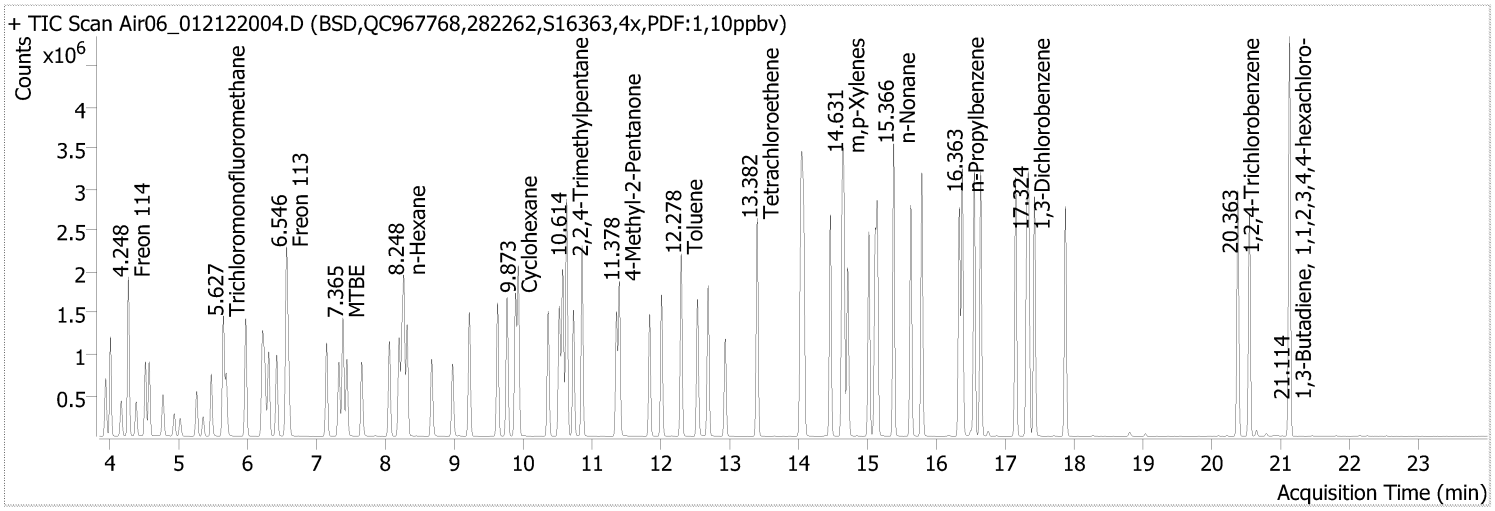


# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012122004.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/21/2022 12:29:41 PM |
| Sample Name | BSD,QC967768,282262,S16363,4x,PDF:1,10ppbv | Instrument | Air-MS-06 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 21 0951 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



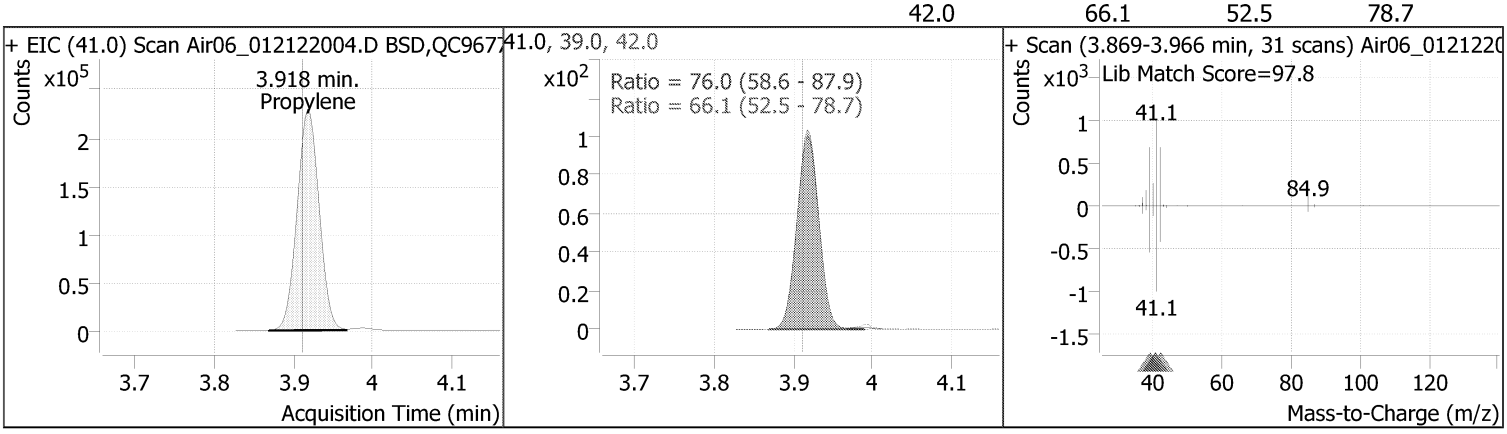

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 404524 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.912 | 114.0 | 1665439 | 10.0000 | nL/L | | 0.003 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 849566 | 10.0000 | nL/L | | 0.000 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.615 | 95.0 | 1115847 | 9.9880 | nL/L | | 0.000 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 99.88% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.918 | 41.0 | 444140 | 11.1453 | nL/L | | 98 |
| T Freon 12 | 3.989 | 85.0 | 1115224 | 10.5785 | nL/L | # | 98 |
| T Chloromethane | 4.144 | 50.0 | 528458 | 10.6680 | nL/L | | 100 |
| T Freon 114 | 4.248 | 135.0 | 726839 | 9.7727 | nL/L | | 100 |
| T Vinyl Chloride | 4.361 | 62.0 | 492726 | 9.9442 | nL/L | | 99 |
| T 1,3-Butadiene | 4.497 | 54.0 | 449758 | 10.5990 | nL/L | | 97 |
| T Butane | 4.552 | 43.0 | 910558 | 11.0558 | nL/L | | 98 |
| T Bromomethane | 4.750 | 96.0 | 361601 | 9.9120 | nL/L | | 99 |
| T Chloroethane | 4.915 | 64.0 | 243899 | 9.9855 | nL/L | | 96 |
| T Ethanol | 5.002 | 45.0 | 264214 | 10.8309 | nL/L | | 99 |
| T Vinyl bromide | 5.242 | 108.0 | 418489 | 9.7755 | nL/L | | 100 |
| T Acrolein | 5.335 | 56.0 | 217426 | 10.1033 | nL/L | | 99 |
| T Acetone | 5.452 | 58.0 | 263318 | 10.3568 | nL/L | | 87 |
| T Trichloromonofluoromethane | 5.627 | 101.0 | 1300727 | 10.4681 | nL/L | | 100 |
| T Isopropanol (IPA) | 5.669 | 45.0 | 1039914 | 11.4218 | nL/L | | 99 |
| T n-Pentane | 5.954 | 43.0 | 1069328 | 10.5072 | nL/L | | 99 |
| T 1,1-Dichloroethene | 6.196 | 61.0 | 953976 | 10.3126 | nL/L | | 99 |
| T Tert-butyl alcohol (TBA) | 6.229 | 59.0 | 1102058 | 10.4598 | nL/L | | 94 |
| T Methylene Chloride | 6.287 | 84.0 | 425139 | 9.4982 | nL/L | | 97 |
| T 3-Chloropropene | 6.404 | 76.0 | 201911 | 9.7856 | nL/L | | 99 |
| T Freon 113 | 6.546 | 101.0 | 989096 | 9.9048 | nL/L | | 98 |
| T Carbon Disulfide | 6.575 | 76.0 | 1284162 | 9.9267 | nL/L | | 97 |

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.129 | 61.0 | 773893 | 9.9889 | nL/L | 99 |
| T 1,1-Dichloroethane | 7.307 | 63.0 | 959136 | 10.0825 | nL/L | 100 |
| T MTBE | 7.365 | 73.0 | 1288590 | 10.2222 | nL/L | 98 |
| T Vinyl Acetate | 7.423 | 43.0 | 1539103 | 9.6419 | nL/L | 99 |
| T 2-Butanone | 7.637 | 43.0 | 1303452 | 10.5995 | nL/L | 94 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 789828 | 10.0793 | nL/L | 99 |
| T Ethyl Acetate | 8.223 | 61.0 | 187234 | 9.6979 | nL/L | 85 |
| T n-Hexane | 8.248 | 57.0 | 876263 | 9.8826 | nL/L | 96 |
| T Chloroform | 8.297 | 83.0 | 1023137 | 10.2330 | nL/L | 98 |
| T Tetrahydrofuran | 8.653 | 72.0 | 215168 | 9.7562 | nL/L | 94 |
| T 1,2-Dichloroethane | 8.957 | 62.0 | 760336 | 10.3855 | nL/L | 99 |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 997473 | 10.3138 | nL/L | 98 |
| T Benzene | 9.611 | 78.0 | 1396714 | 9.6903 | nL/L | 98 |
| T Carbon Tetrachloride | 9.750 | 117.0 | 1066318 | 10.3348 | nL/L | 98 |
| T Cyclohexane | 9.873 | 84.0 | 568171 | 9.4351 | nL/L | 95 |
| T 1,2-Dichloropropane | 10.346 | 63.0 | 627644 | 9.2007 | nL/L | 97 |
| T Methane, bromodichloro- | 10.508 | 83.0 | 1053552 | 9.4649 | nL/L | 98 |
| T 1,4-Dioxane | 10.537 | 88.0 | 314678 | 8.8396 | nL/L | 97 |
| T Trichloroethene | 10.559 | 132.0 | 606092 | 8.7339 | nL/L | 99 |
| T 2,2,4-Trimethylpentane | 10.614 | 57.0 | 2817534 | 9.0754 | nL/L | 98 |
| T Methyl methacrylate | 10.715 | 69.0 | 533155 | 9.2069 | nL/L | 91 |
| T n-Heptane | 10.838 | 71.0 | 484042 | 9.0255 | nL/L | 98 |
| T cis-1,3-Dichloropropene | 11.339 | 110.0 | 189958 | 8.7718 | nL/L | 92 |
| T 4-Methyl-2-Pentanone | 11.378 | 58.0 | 539565 | 9.0180 | nL/L | 94 |
| T trans-1,3-Dichloropropene | 11.822 | 110.0 | 197016 | 8.8734 | nL/L | 96 |
| T 1,1,2-Trichloroethane | 11.993 | 97.0 | 589198 | 9.0695 | nL/L | 99 |
| T Toluene | 12.278 | 91.0 | 1741669 | 8.8230 | nL/L | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 251582827 | 18.3837 | nL/L | 100 |
| T 2-Hexanone | 12.514 | 58.0 | 709653 | 9.2346 | nL/L | 93 |
| T Dibromochloromethane | 12.670 | 129.0 | 1084055 | 9.1918 | nL/L | 99 |
| T 1,2-Dibromoethane | 12.919 | 108.9 | 905042 | 9.0554 | nL/L | 99 |
| T Tetrachloroethene | 13.382 | 166.0 | 873354 | 8.5575 | nL/L | 96 |
| T 1,1,1,2-Tetrachloroethane | 14.036 | 131.0 | 702195 | 9.5779 | nL/L | 99 |
| T Benzene, chloro- | 14.058 | 112.0 | 1352513 | 9.2965 | nL/L | 98 |
| T Ethylbenzene | 14.443 | 91.0 | 2198862 | 9.5133 | nL/L | 99 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 190525591 | 19.0607 | nL/L | 100 |
| T m,p-Xylenes | 14.631 | 91.0 | 3528937 | 18.9841 | nL/L | 98 |
| T Bromoform | 14.696 | 173.0 | 1187282 | 9.3252 | nL/L | 98 |
| T Styrene | 15.003 | 104.0 | 1355495 | 9.2016 | nL/L | 99 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 1353206 | 9.6334 | nL/L | 100 |
| T o-Xylene | 15.126 | 91.0 | 1814550 | 9.4945 | nL/L | 99 |
| T n-Nonane | 15.366 | 85.0 | 411883 | 9.3286 | nL/L | 96 |
| T Isopropylbenzene | 15.774 | 105.0 | 2457252 | 9.3795 | nL/L | 99 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 608608 | 9.1209 | nL/L | 98 |
| T n-Propylbenzene | 16.363 | 120.0 | 670903 | 9.1655 | nL/L | 91 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 2460290 | 9.4898 | nL/L | 99 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 2116931 | 9.4324 | nL/L | 99 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 2101636 | 9.4282 | nL/L | 99 |
| T Benzyl chloride | 17.298 | 91.0 | 1960792 | 10.0040 | nL/L | 99 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 1414071 | 9.2486 | nL/L | 99 |
| T 1,4-Dichlorobenzene | 17.411 | 146.0 | 1423724 | 9.2086 | nL/L | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 1376760 | 9.2322 | nL/L | 99 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1170687 | 9.5269 | nL/L | 98 |
| T Naphthalene | 20.532 | 128.0 | 2532279 | 9.9563 | nL/L | 100 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.114 | 225.0 | 1175297 | 8.9007 | nL/L | 99 |

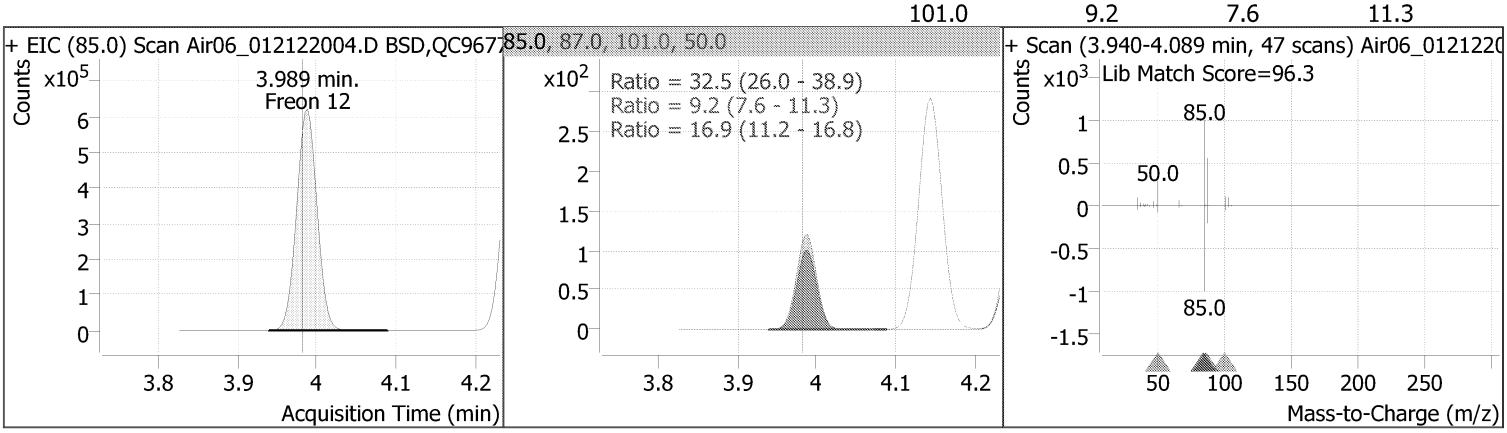
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

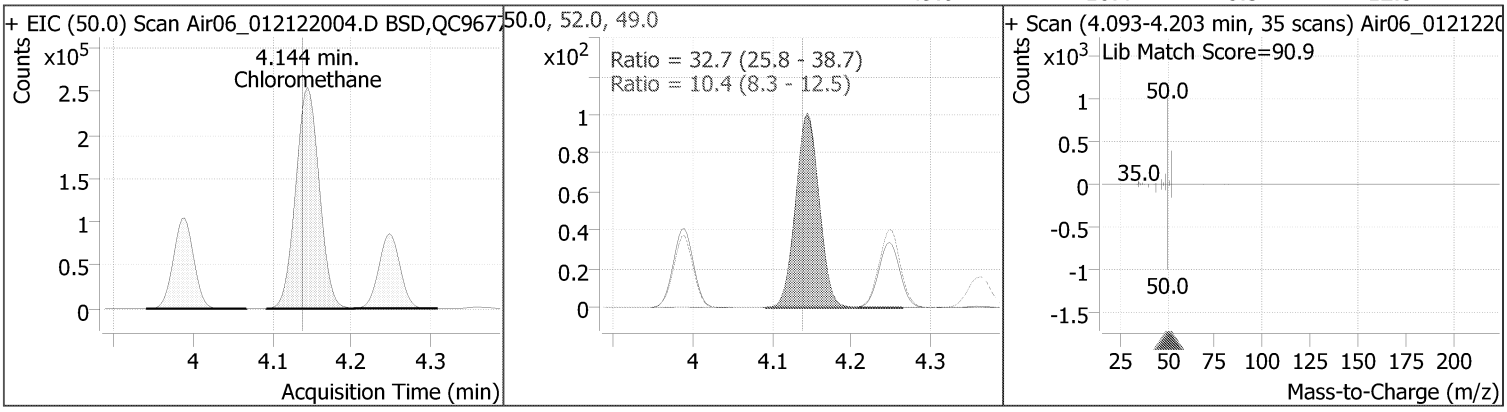
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 11.1453 | 3.92 | 0.01 | 444140 | 39.0 | 76.0 | 58.6 | 87.9 |
| | | | | | 42.0 | 66.1 | 52.5 | 78.7 |



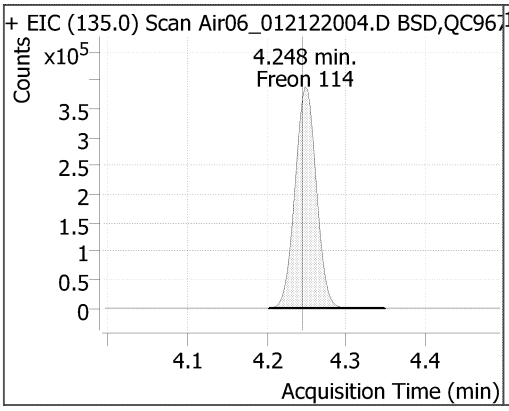

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 10.5785 | 3.99 | 0.01 | 1115224 | 87.0 | 32.5 | 26.0 | 38.9 |
| | | | | | 50.0 | 16.9 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.2 | 7.6 | 11.3 |

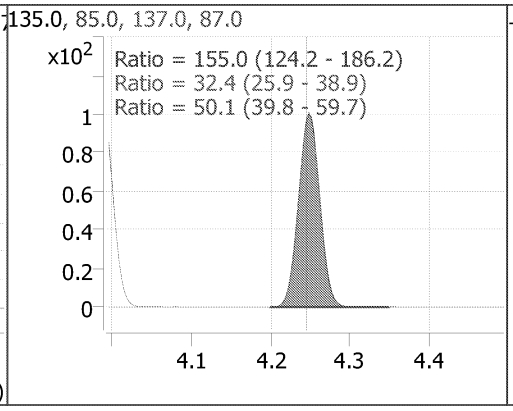


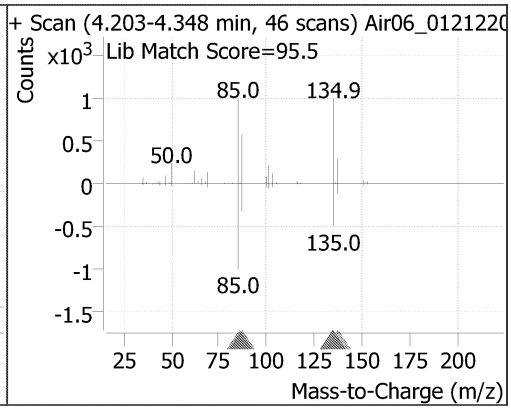

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.6680 | 4.14 | 0.01 | 528458 | 52.0 | 32.7 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.4 | 8.3 | 12.5 |



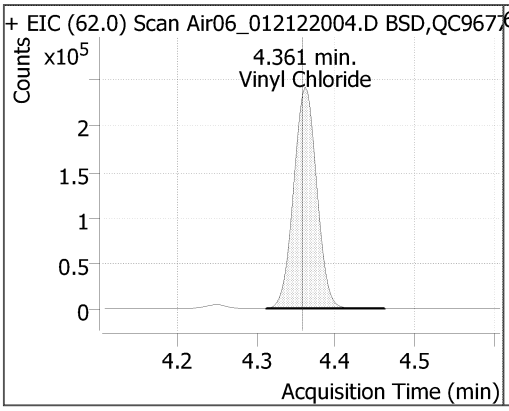
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 9.7727 | 4.25 | 0.01 | 726839 | 85.0 | 155.0 | 124.2 | 186.2 |
| | | | | | 87.0 | 50.1 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.4 | 25.9 | 38.9 |

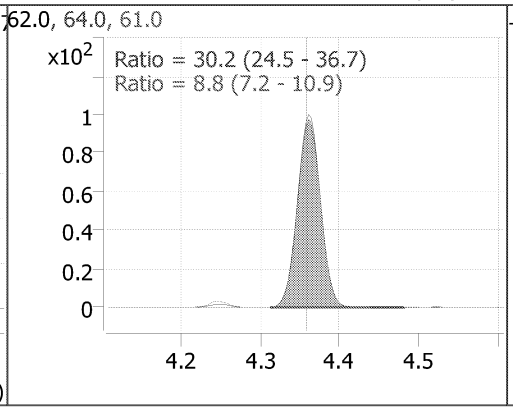


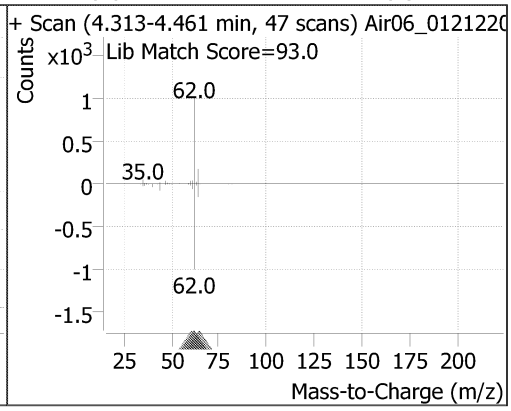



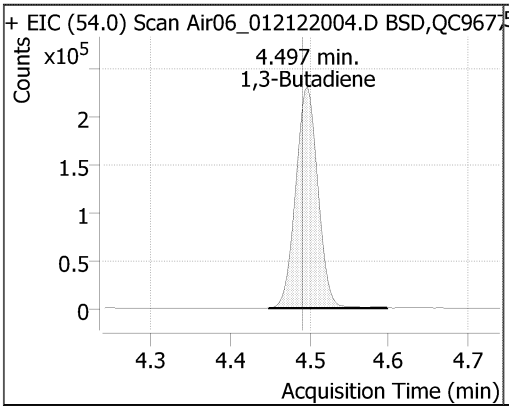

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 9.9442 | 4.36 | 0.01 | 492726 | 64.0 | 30.2 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.8 | 7.2 | 10.9 |

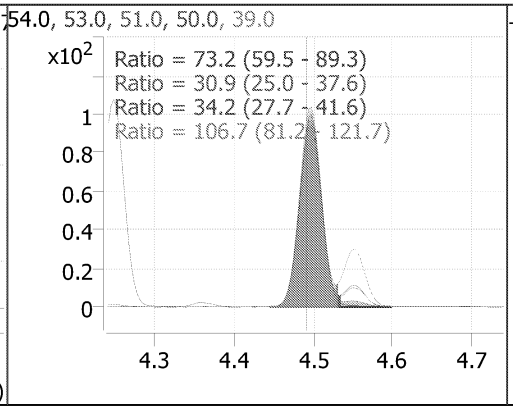


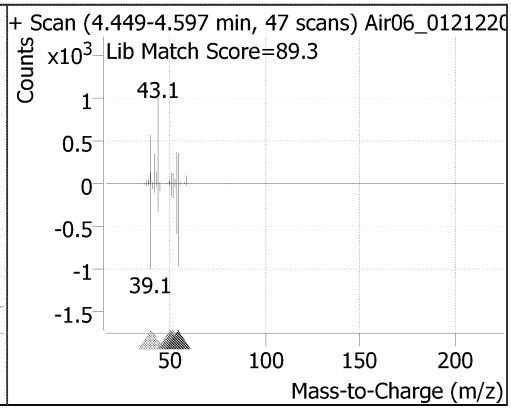



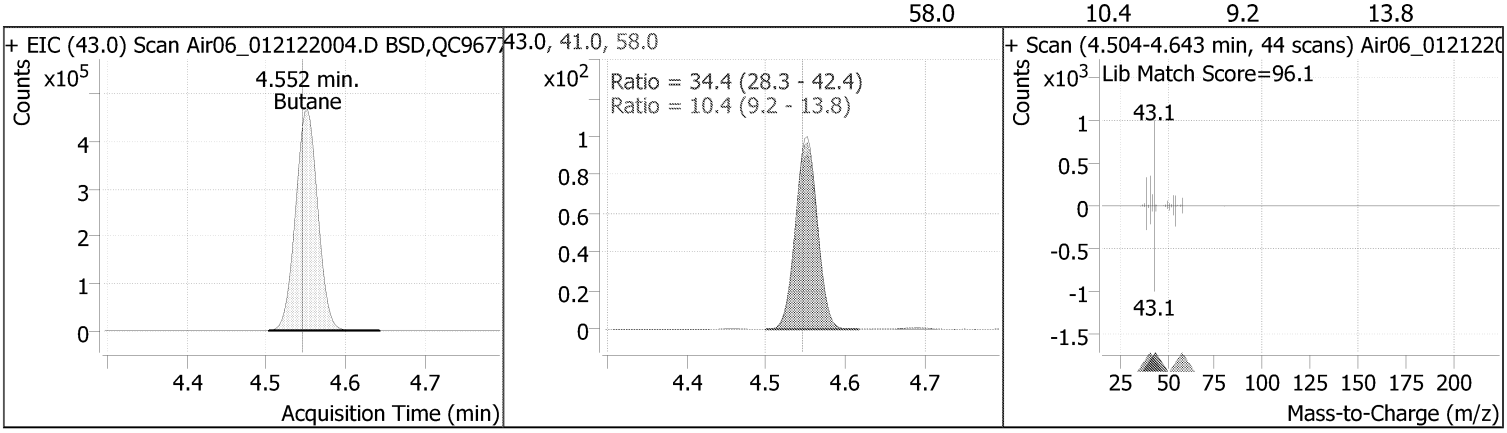

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 10.5990 | 4.50 | 0.01 | 449758 | 39.0 | 106.7 | 81.2 | 121.7 |
| | | | | | 53.0 | 73.2 | 59.5 | 89.3 |
| | | | | | 50.0 | 34.2 | 27.7 | 41.6 |
| | | | | | 51.0 | 30.9 | 25.0 | 37.6 |



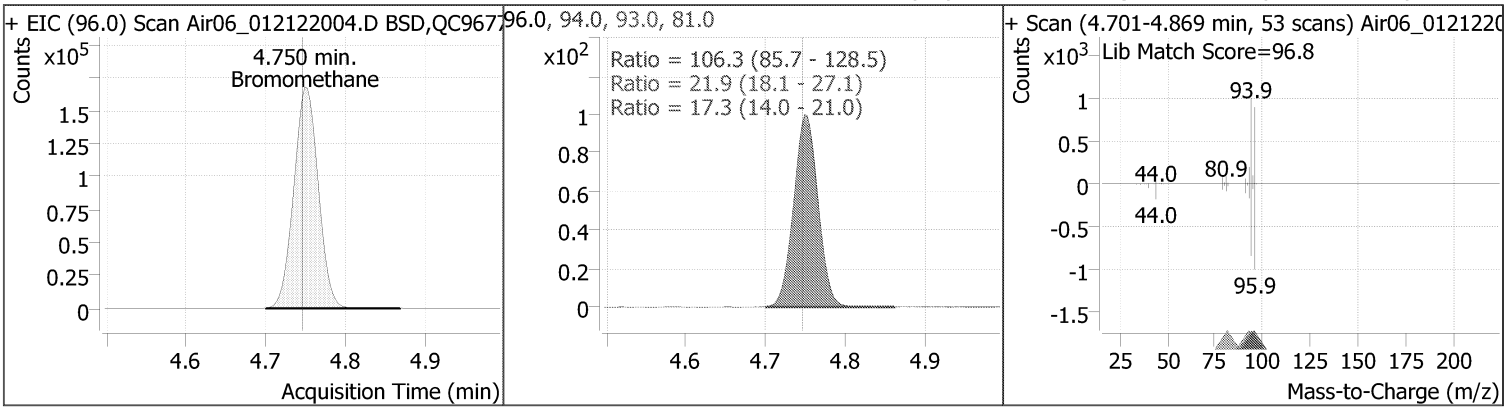



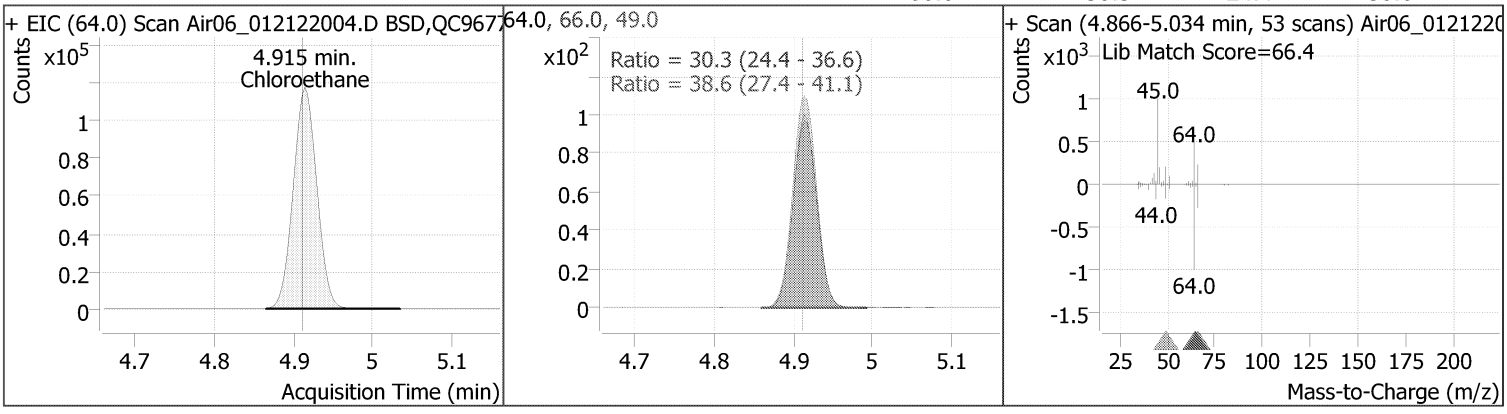
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 11.0558 | 4.55 | 0.01 | 910558 | 41.0 | 34.4 | 28.3 | 42.4 |
| | | | | | 58.0 | 10.4 | 9.2 | 13.8 |



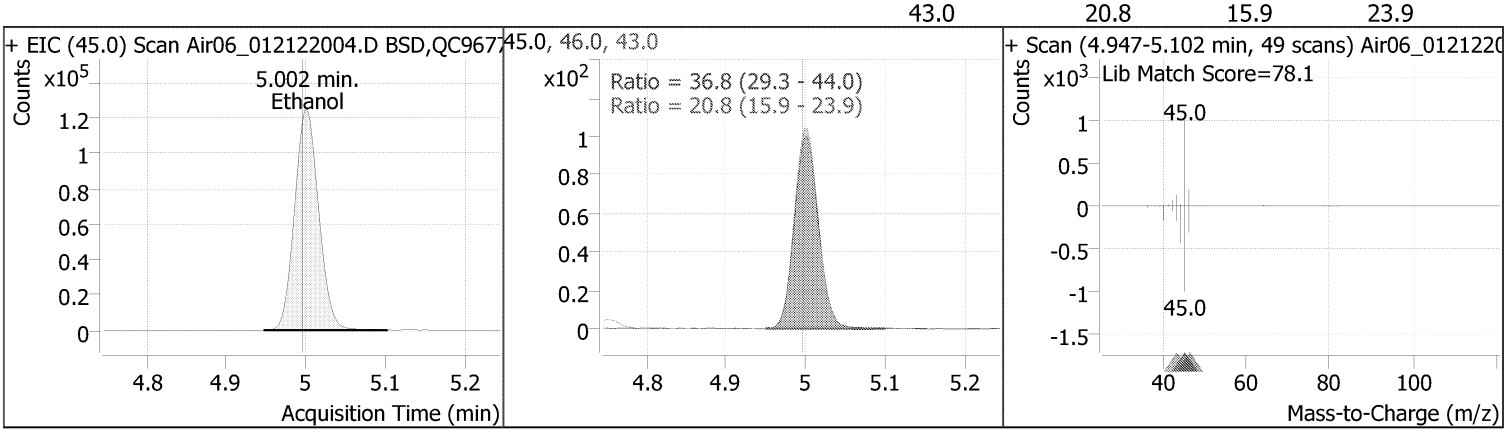

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 9.9120 | 4.75 | 0.01 | 361601 | 94.0 | 106.3 | 85.7 | 128.5 |
| | | | | | 93.0 | 21.9 | 18.1 | 27.1 |
| | | | | | 81.0 | 17.3 | 14.0 | 21.0 |



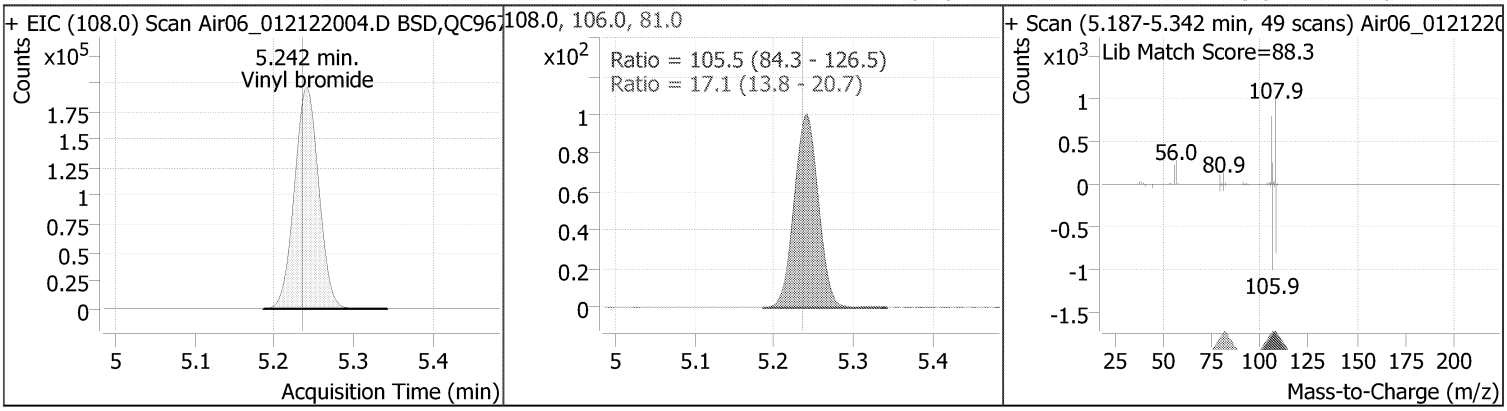

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 9.9855 | 4.91 | 0.01 | 243899 | 49.0 | 38.6 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.3 | 24.4 | 36.6 |



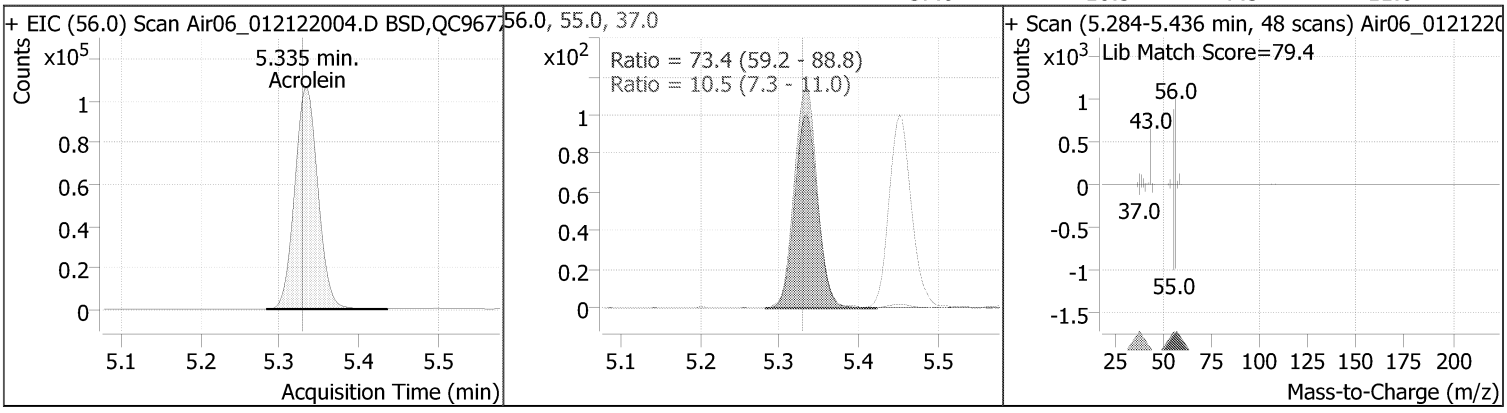
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 10.8309 | 5.00 | 0.01 | 264214 | 46.0 | 36.8 | 29.3 | 44.0 |
| | | | | | 43.0 | 20.8 | 15.9 | 23.9 |



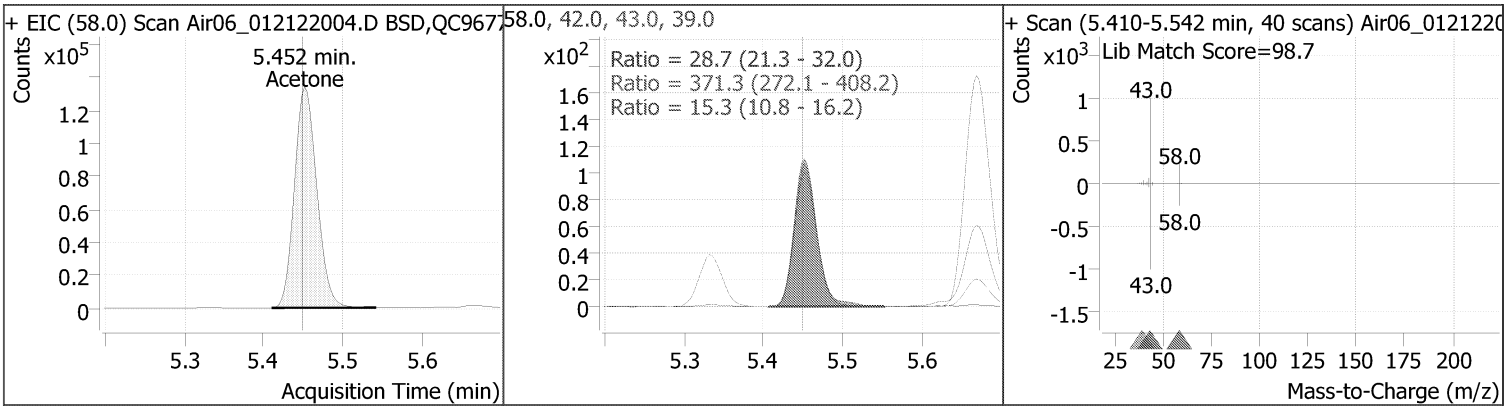

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 9.7755 | 5.24 | 0.01 | 418489 | 106.0 | 105.5 | 84.3 | 126.5 |
| | | | | | 81.0 | 17.1 | 13.8 | 20.7 |



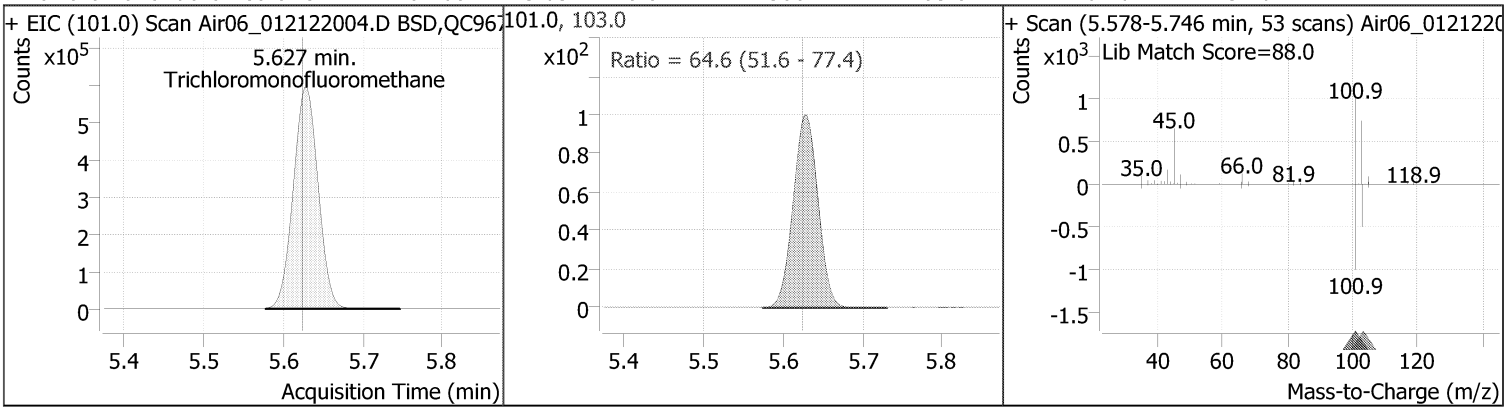

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 10.1033 | 5.34 | 0.01 | 217426 | 55.0 | 73.4 | 59.2 | 88.8 |
| | | | | | 37.0 | 10.5 | 7.3 | 11.0 |



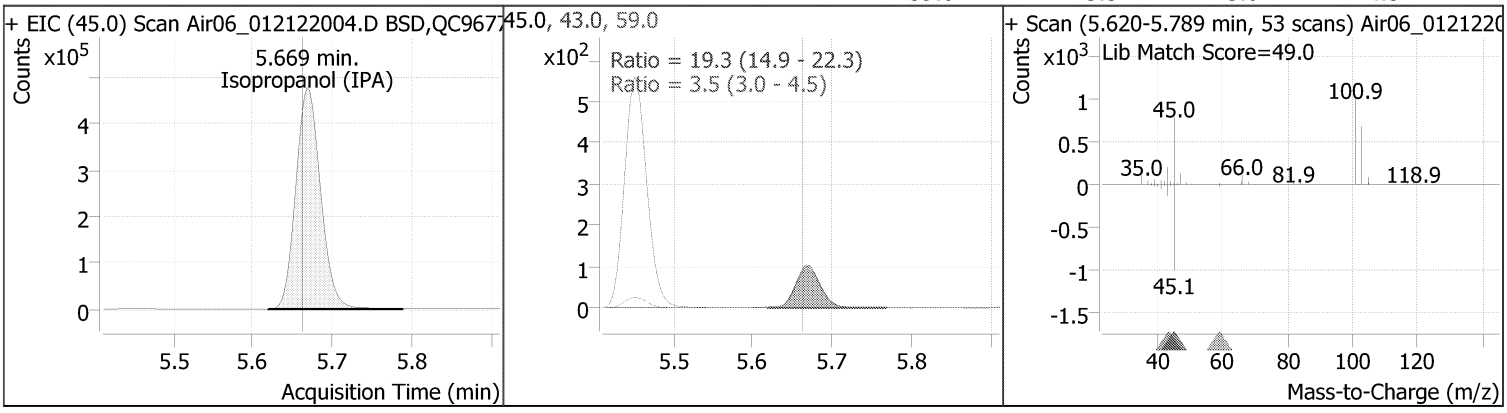
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 10.3568 | 5.45 | 0.01 | 263318 | 43.0 | 371.3 | 272.1 | 408.2 |
| | | | | | 42.0 | 28.7 | 21.3 | 32.0 |
| | | | | | 39.0 | 15.3 | 10.8 | 16.2 |



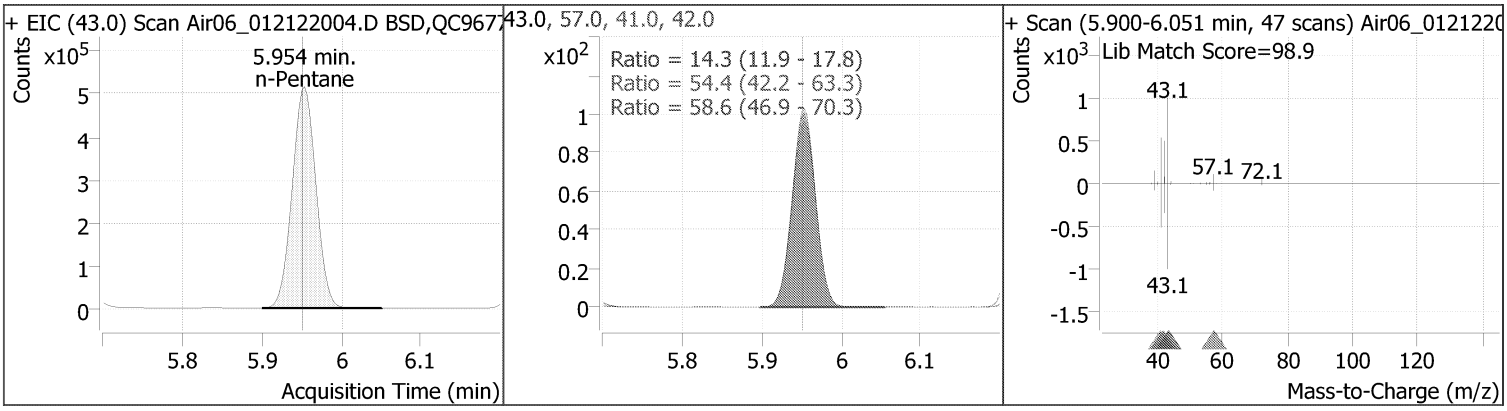

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 10.4681 | 5.63 | 0.01 | 1300727 | 103.0 | 64.6 | 51.6 | 77.4 |



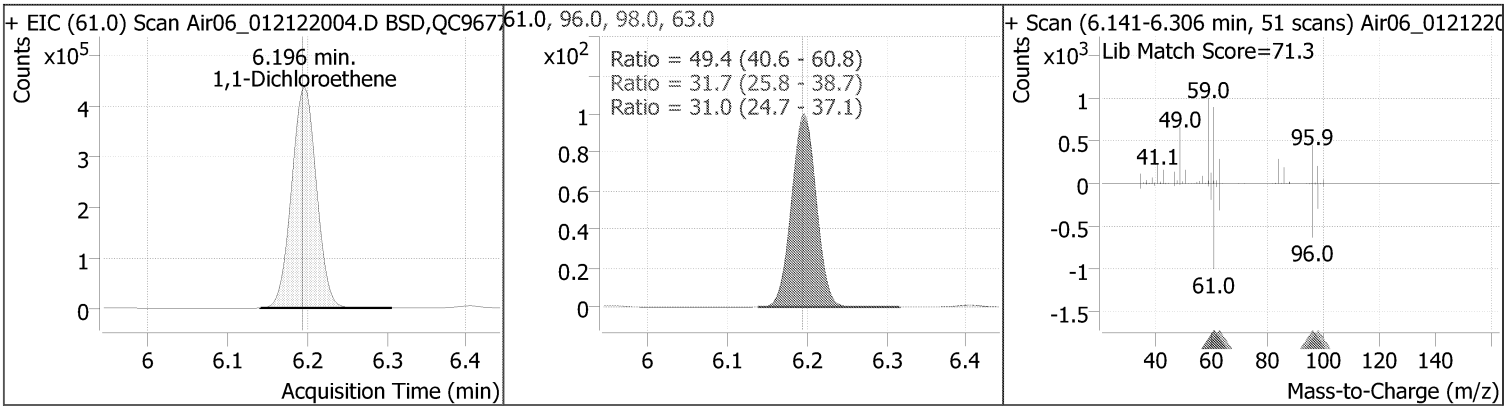

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 11.4218 | 5.67 | 0.01 | 1039914 | 43.0 | 19.3 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.5 | 3.0 | 4.5 |



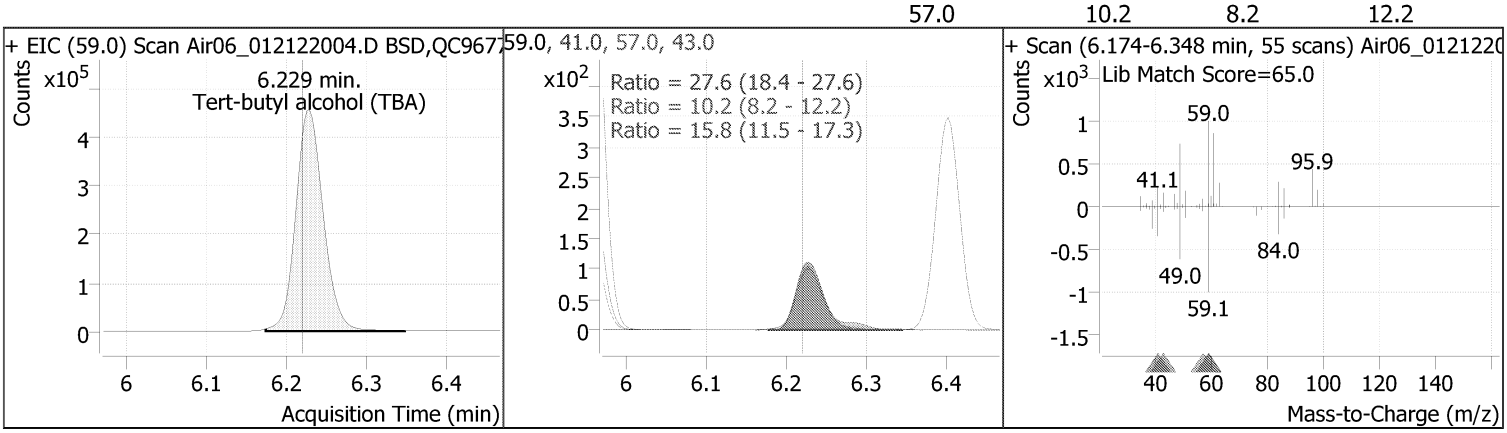
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 10.5072 | 5.95 | 0.01 | 1069328 | 42.0 | 58.6 | 46.9 | 70.3 |
| | | | | | 41.0 | 54.4 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.3 | 11.9 | 17.8 |



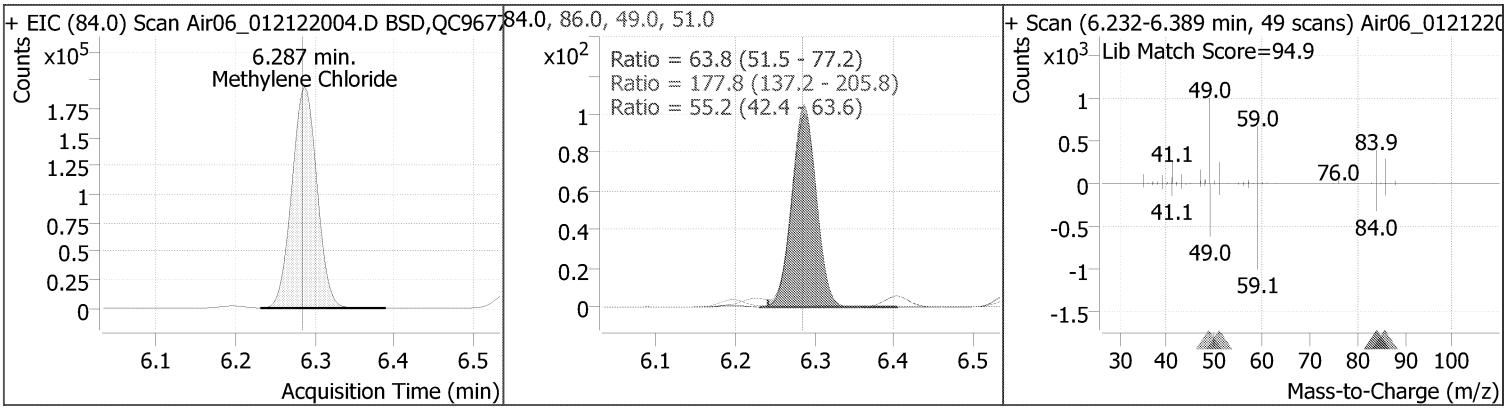

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 10.3126 | 6.20 | 0.01 | 953976 | 96.0 | 49.4 | 40.6 | 60.8 |
| | | | | | 98.0 | 31.7 | 25.8 | 38.7 |
| | | | | | 63.0 | 31.0 | 24.7 | 37.1 |



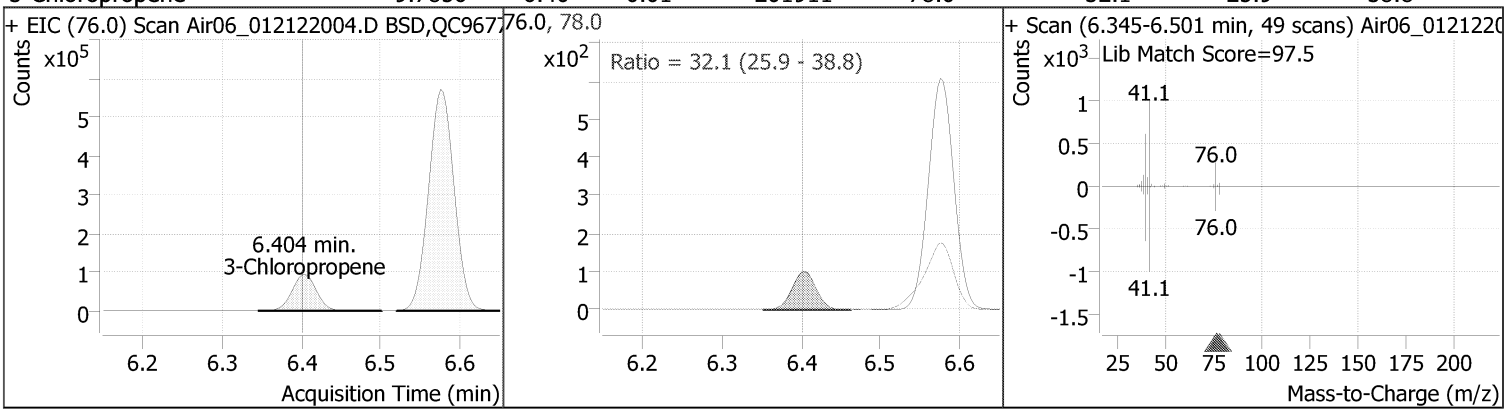

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 10.4598 | 6.23 | 0.01 | 1102058 | 41.0 | 27.6 | 18.4 | 27.6 |
| | | | | | 43.0 | 15.8 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.2 | 8.2 | 12.2 |



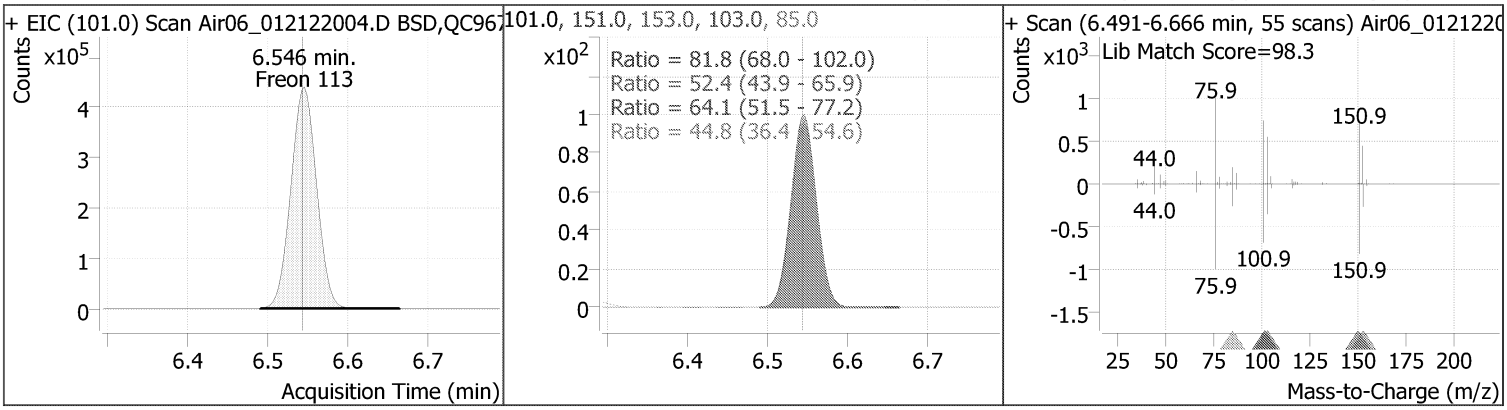
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 9.4982 | 6.29 | 0.01 | 425139 | 49.0 | 177.8 | 137.2 | 205.8 |
| | | | | | 86.0 | 63.8 | 51.5 | 77.2 |
| | | | | | 51.0 | 55.2 | 42.4 | 63.6 |



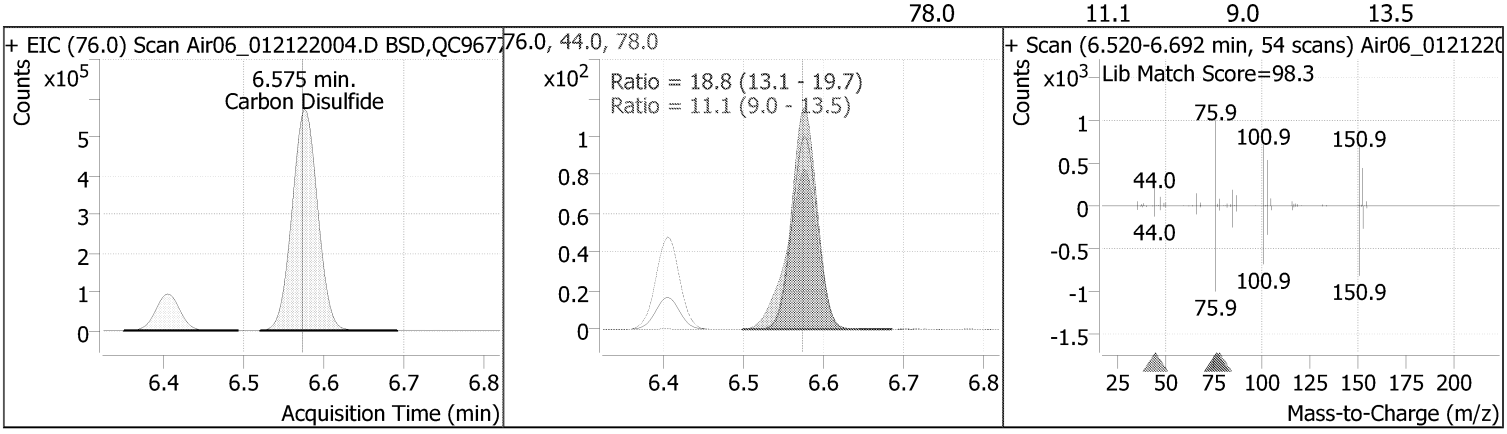

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 9.7856 | 6.40 | 0.01 | 201911 | 78.0 | 32.1 | 25.9 | 38.8 |



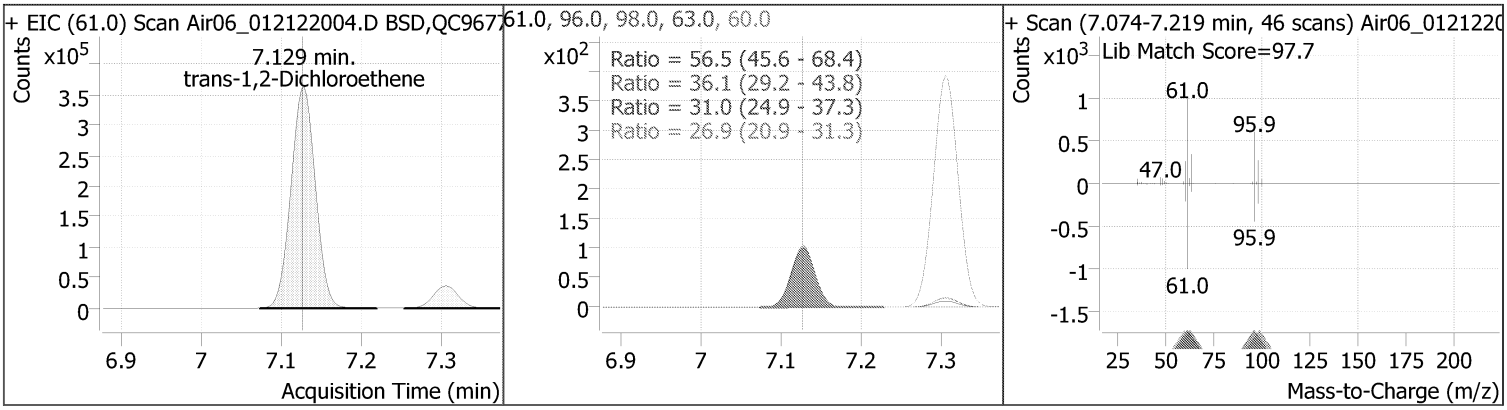

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 9.9048 | 6.55 | 0.01 | 989096 | 151.0 | 81.8 | 68.0 | 102.0 |
| | | | | | 103.0 | 64.1 | 51.5 | 77.2 |
| | | | | | 153.0 | 52.4 | 43.9 | 65.9 |
| | | | | | 85.0 | 44.8 | 36.4 | 54.6 |



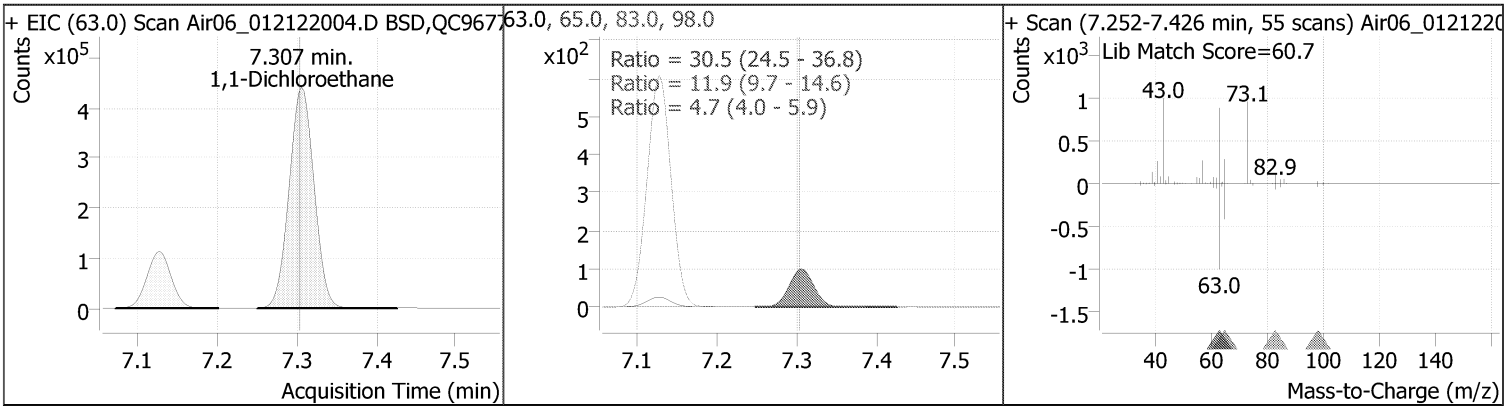
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 9.9267 | 6.58 | 0.01 | 1284162 | 44.0 | 18.8 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.1 | 9.0 | 13.5 |



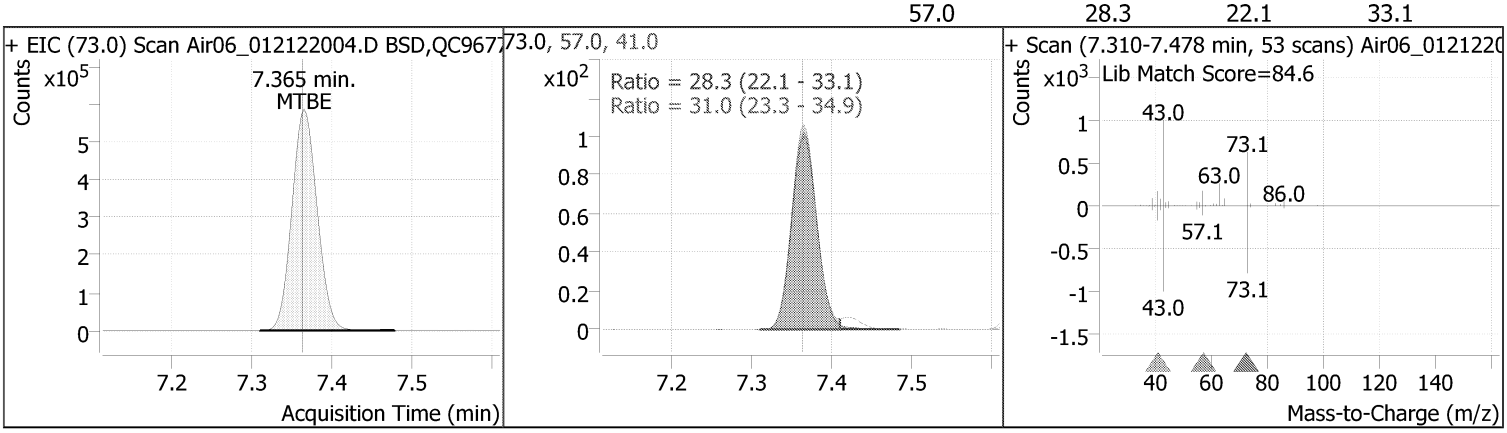

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 9.9889 | 7.13 | 0.01 | 773893 | 96.0 | 56.5 | 45.6 | 68.4 |
| | | | | | 98.0 | 36.1 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.0 | 24.9 | 37.3 |
| | | | | | 60.0 | 26.9 | 20.9 | 31.3 |



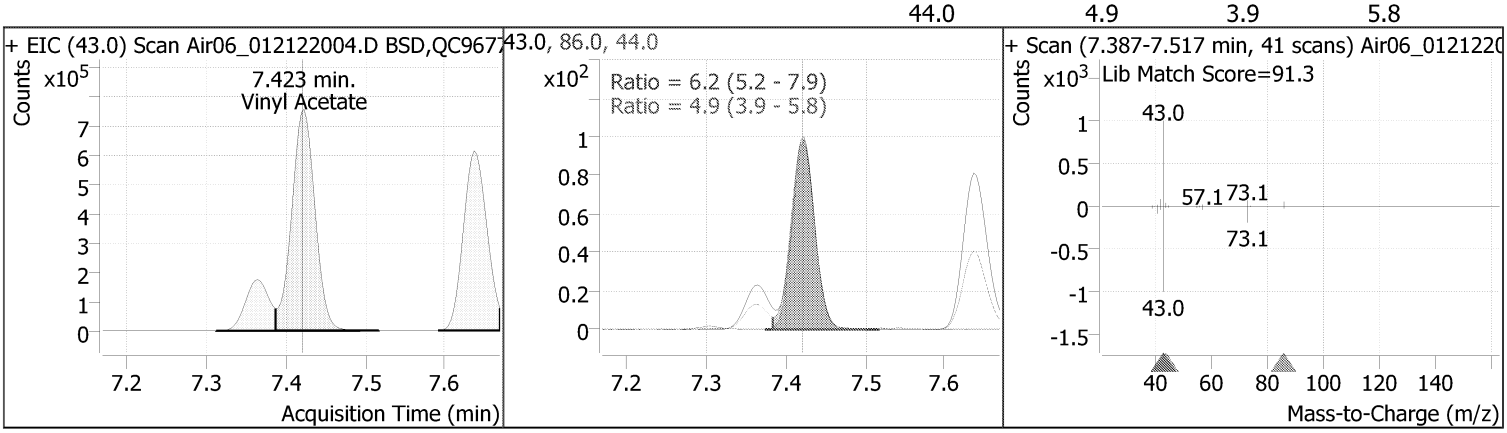

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 10.0825 | 7.31 | 0.00 | 959136 | 65.0 | 30.5 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.9 | 9.7 | 14.6 |
| | | | | | 98.0 | 4.7 | 4.0 | 5.9 |



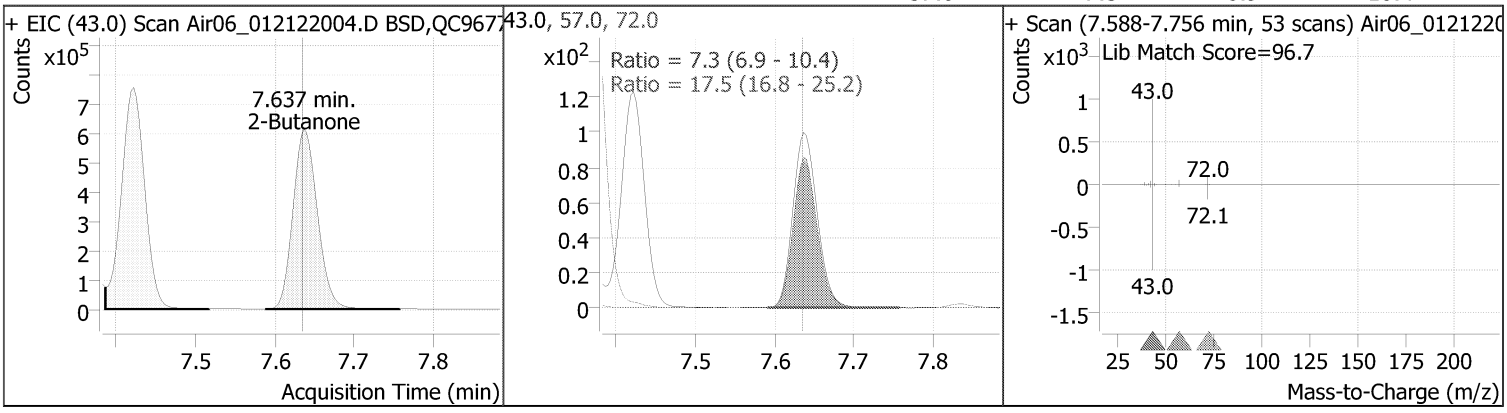
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 10.2222 | 7.36 | 0.01 | 1288590 | 41.0 | 31.0 | 23.3 | 34.9 |
| | | | | | 57.0 | 28.3 | 22.1 | 33.1 |



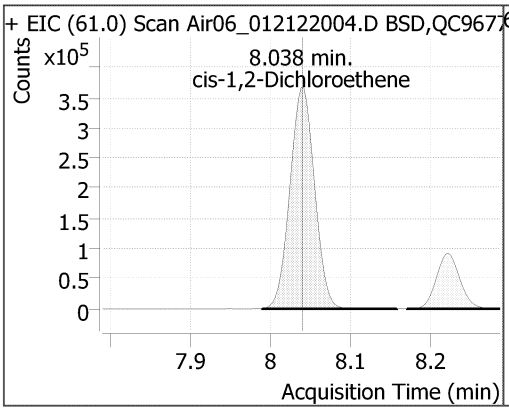

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 9.6419 | 7.42 | 0.01 | 1539103 | 86.0 | 6.2 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.9 | 3.9 | 5.8 |

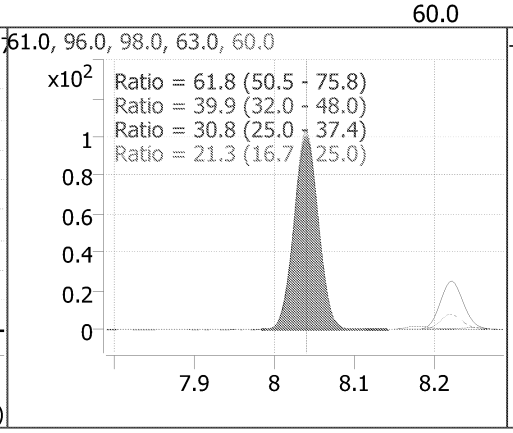


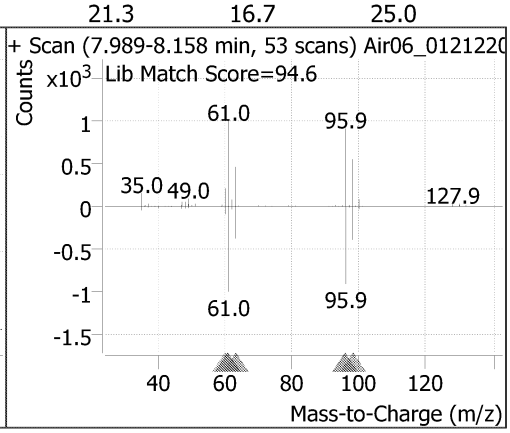

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 10.5995 | 7.64 | 0.01 | 1303452 | 72.0 | 17.5 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.3 | 6.9 | 10.4 |



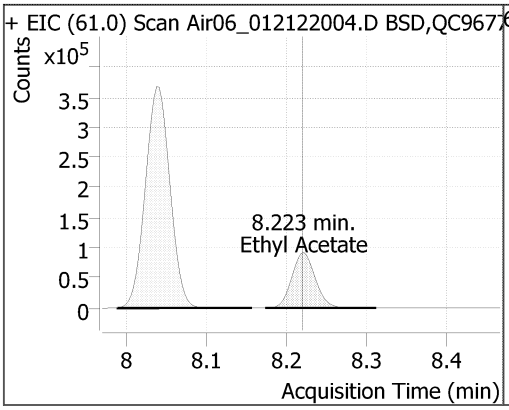
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 10.0793 | 8.04 | 0.00 | 789828 | 96.0 | 61.8 | 50.5 | 75.8 |
| | | | | | 98.0 | 39.9 | 32.0 | 48.0 |
| | | | | | 63.0 | 30.8 | 25.0 | 37.4 |
| | | | | | 60.0 | 21.3 | 16.7 | 25.0 |

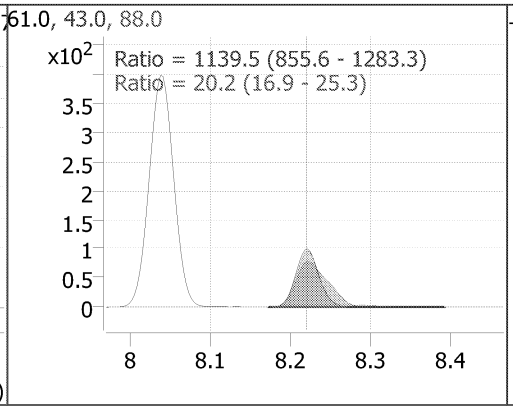


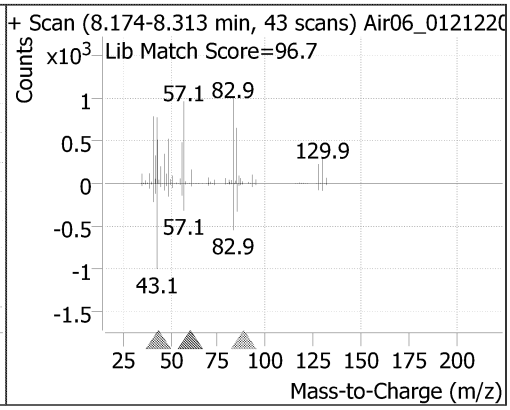



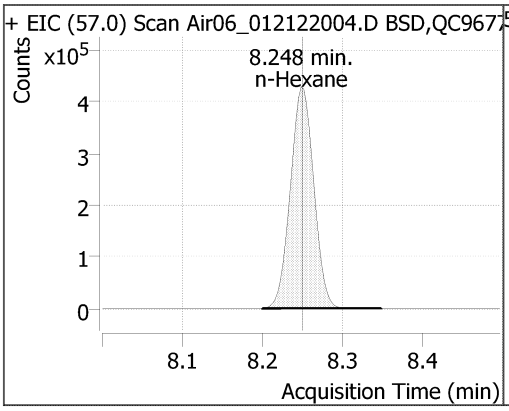

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 9.6979 | 8.22 | 0.01 | 187234 | 43.0 | 1139.5 | 855.6 | 1283.3 |
| | | | | | 88.0 | 20.2 | 16.9 | 25.3 |

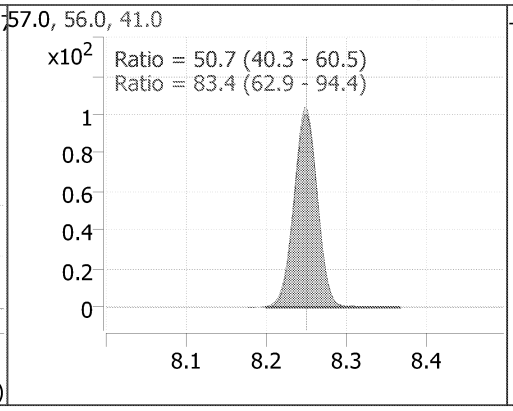


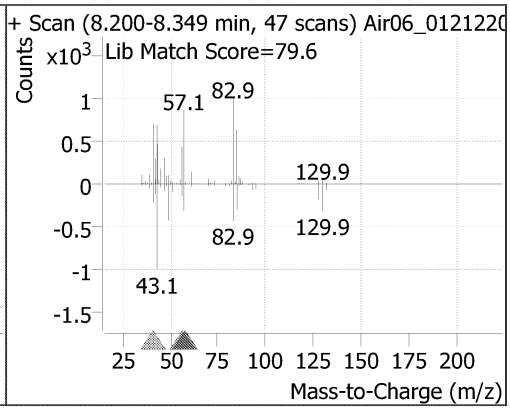



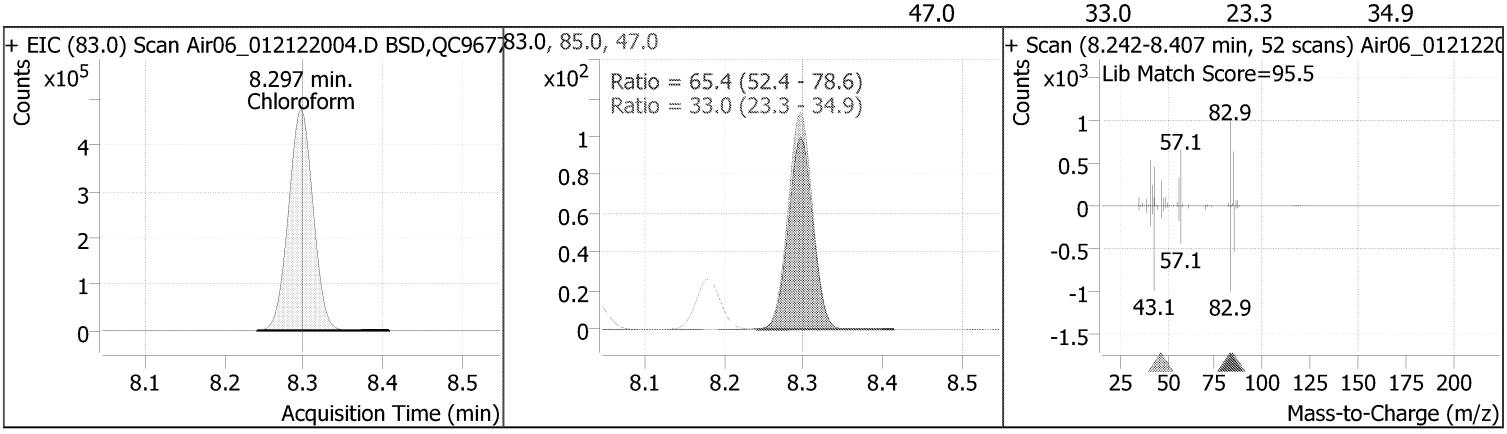

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 9.8826 | 8.25 | 0.00 | 876263 | 41.0 | 83.4 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.7 | 40.3 | 60.5 |



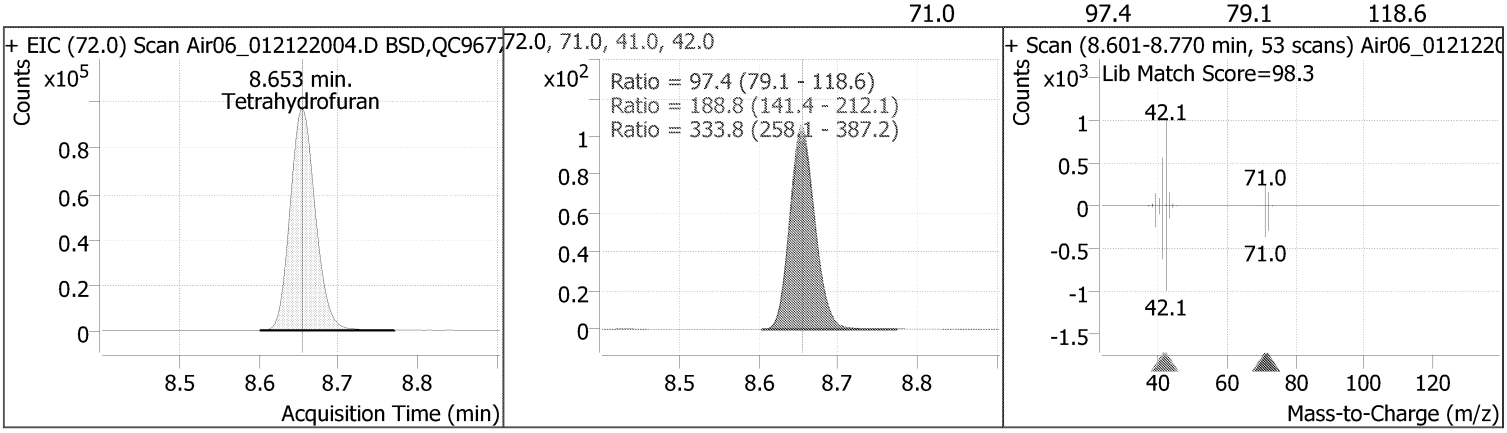



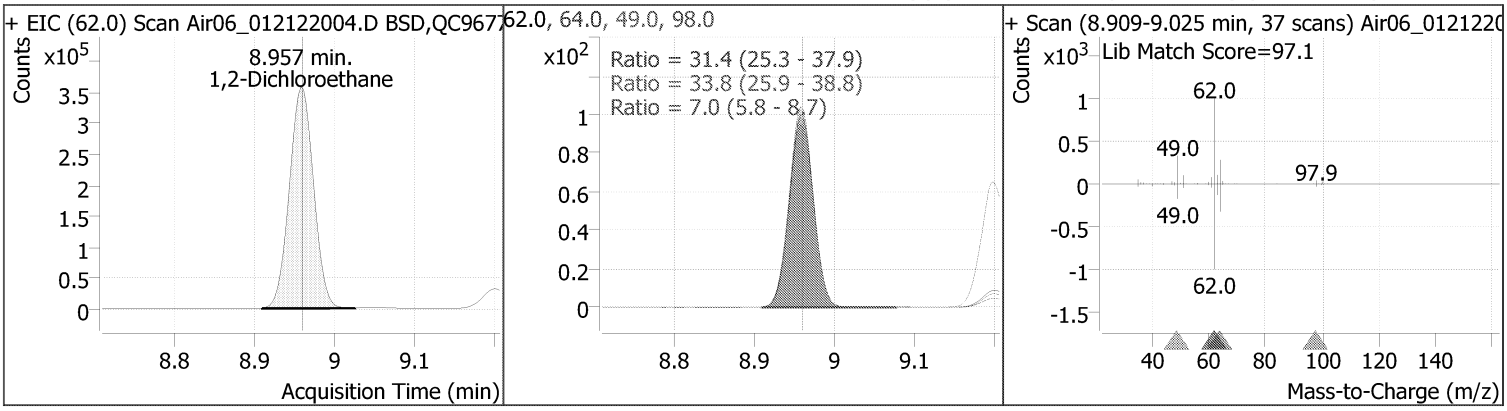
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 10.2330 | 8.30 | 0.00 | 1023137 | 85.0 | 65.4 | 52.4 | 78.6 |
| | | | | | 47.0 | 33.0 | 23.3 | 34.9 |



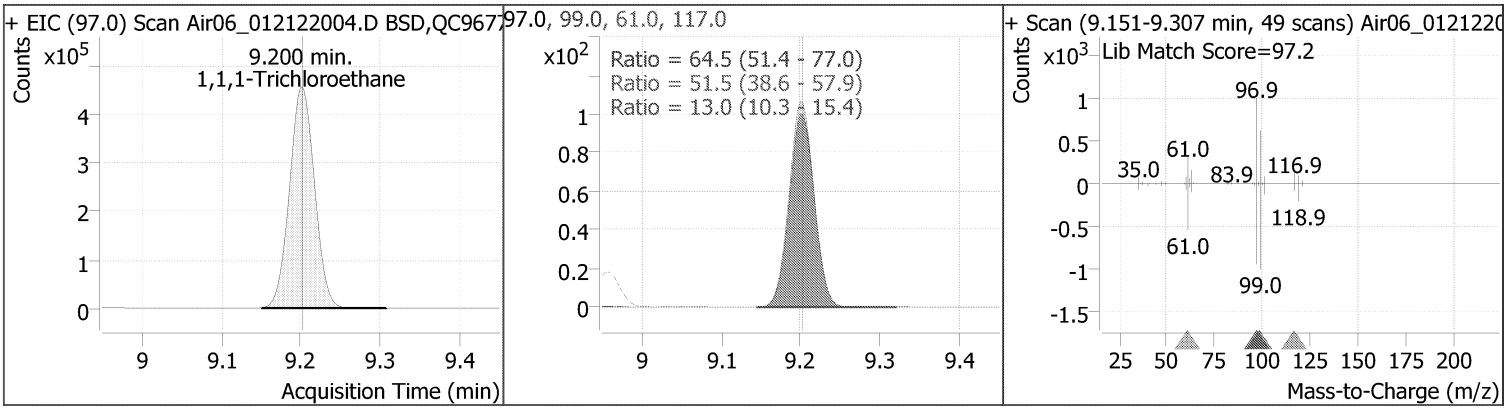

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 9.7562 | 8.65 | 0.00 | 215168 | 42.0 | 333.8 | 258.1 | 387.2 |
| | | | | | 41.0 | 188.8 | 141.4 | 212.1 |
| | | | | | 71.0 | 97.4 | 79.1 | 118.6 |



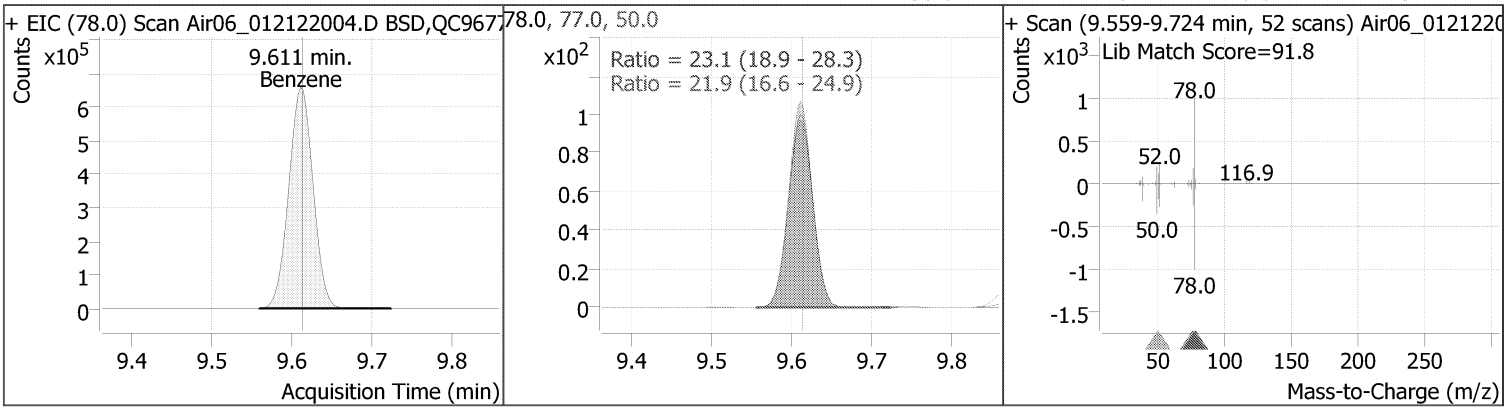

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 10.3855 | 8.96 | 0.00 | 760336 | 49.0 | 33.8 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.4 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.0 | 5.8 | 8.7 |



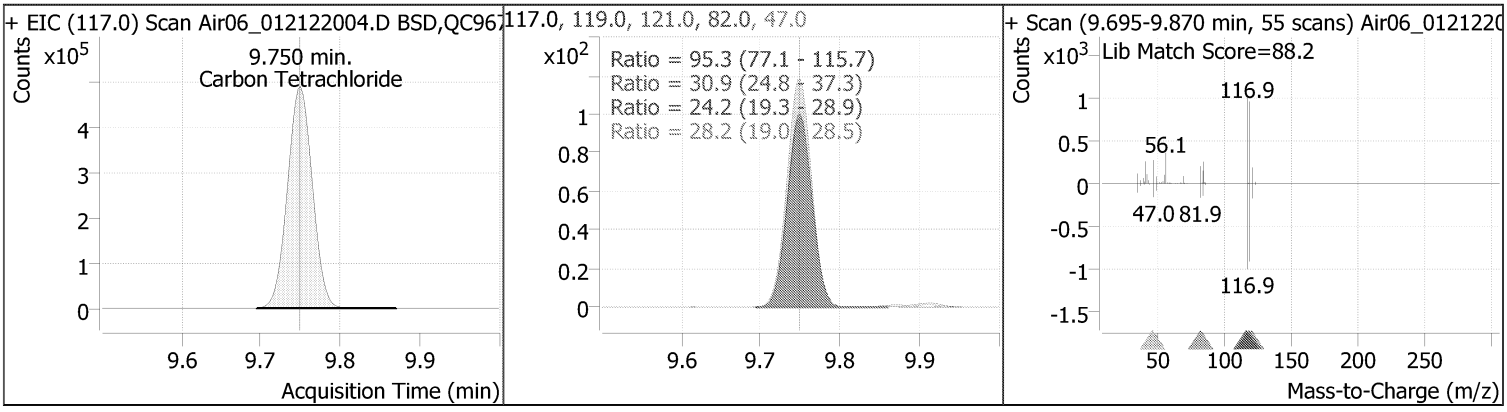
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 10.3138 | 9.20 | 0.00 | 997473 | 99.0 | 64.5 | 51.4 | 77.0 |
| | | | | | 61.0 | 51.5 | 38.6 | 57.9 |
| | | | | | 117.0 | 13.0 | 10.3 | 15.4 |



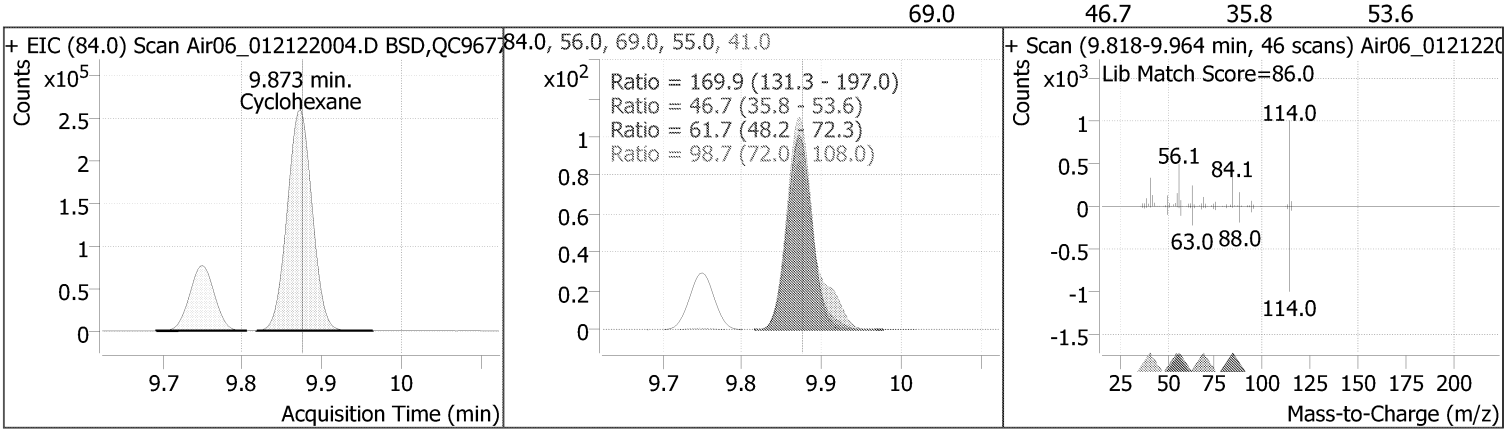

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 9.6903 | 9.61 | 0.00 | 1396714 | 77.0 | 23.1 | 18.9 | 28.3 |
| | | | | | 50.0 | 21.9 | 16.6 | 24.9 |



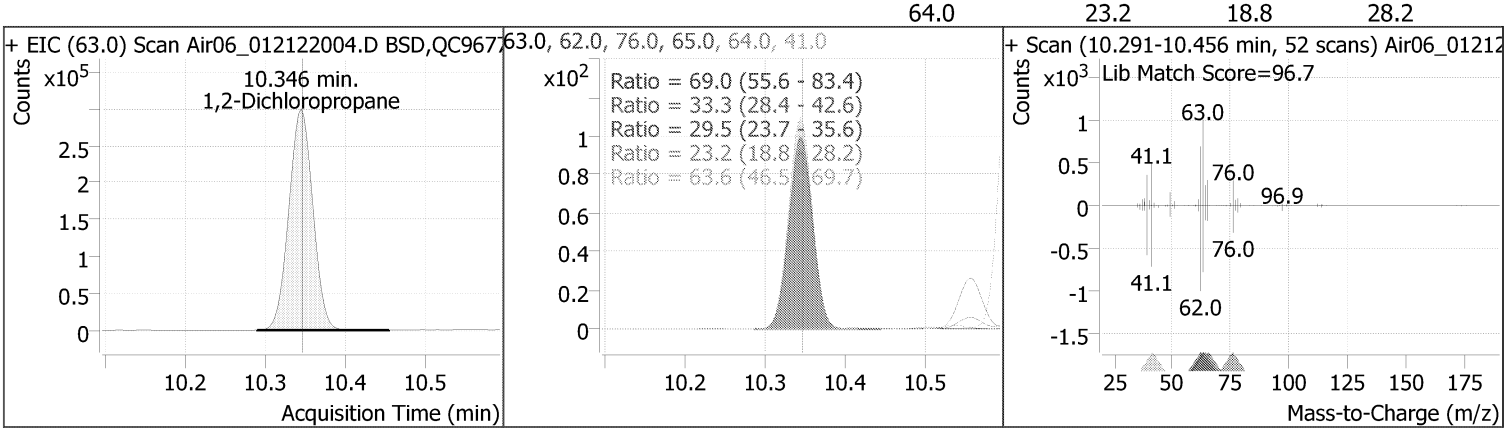

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 10.3348 | 9.75 | 0.00 | 1066318 | 119.0 | 95.3 | 77.1 | 115.7 |
| | | | | | 121.0 | 30.9 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.2 | 19.3 | 28.9 |
| | | | | | 47.0 | 28.2 | 19.0 | 28.5 |



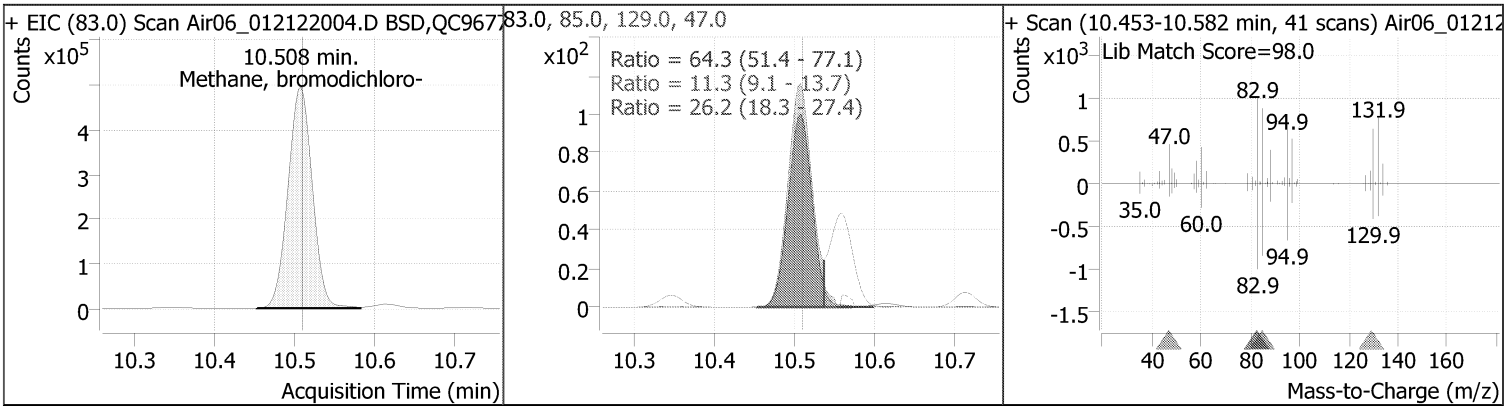
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 9.4351 | 9.87 | 0.00 | 568171 | 56.0 | 169.9 | 131.3 | 197.0 |
| | | | | | 41.0 | 98.7 | 72.0 | 108.0 |
| | | | | | 55.0 | 61.7 | 48.2 | 72.3 |
| | | | | | 69.0 | 46.7 | 35.8 | 53.6 |



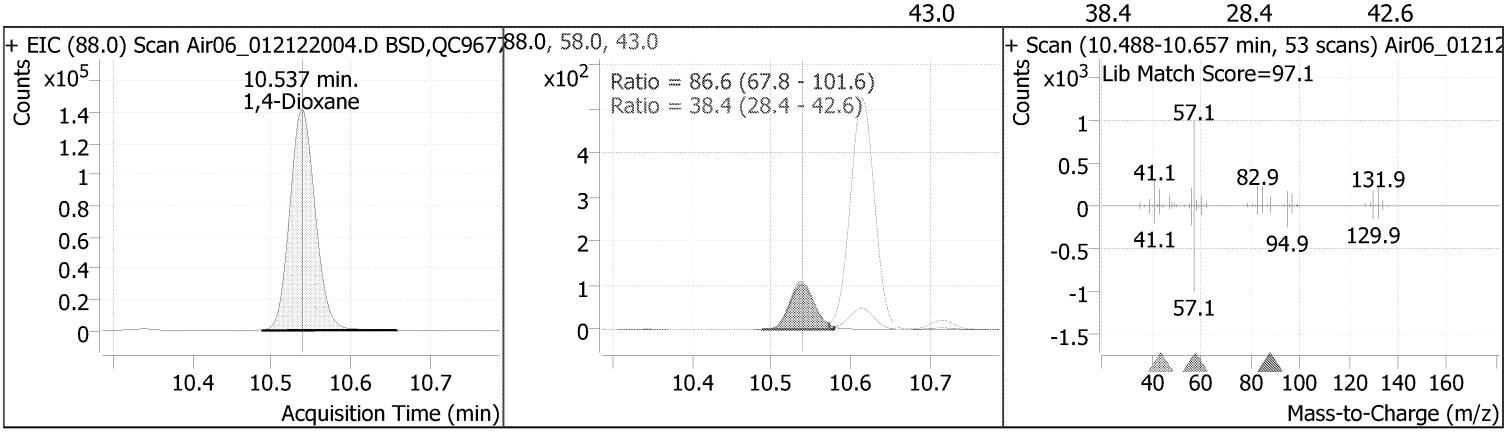

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 9.2007 | 10.35 | 0.00 | 627644 | 62.0 | 69.0 | 55.6 | 83.4 |
| | | | | | 41.0 | 63.6 | 46.5 | 69.7 |
| | | | | | 76.0 | 33.3 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.5 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.2 | 18.8 | 28.2 |



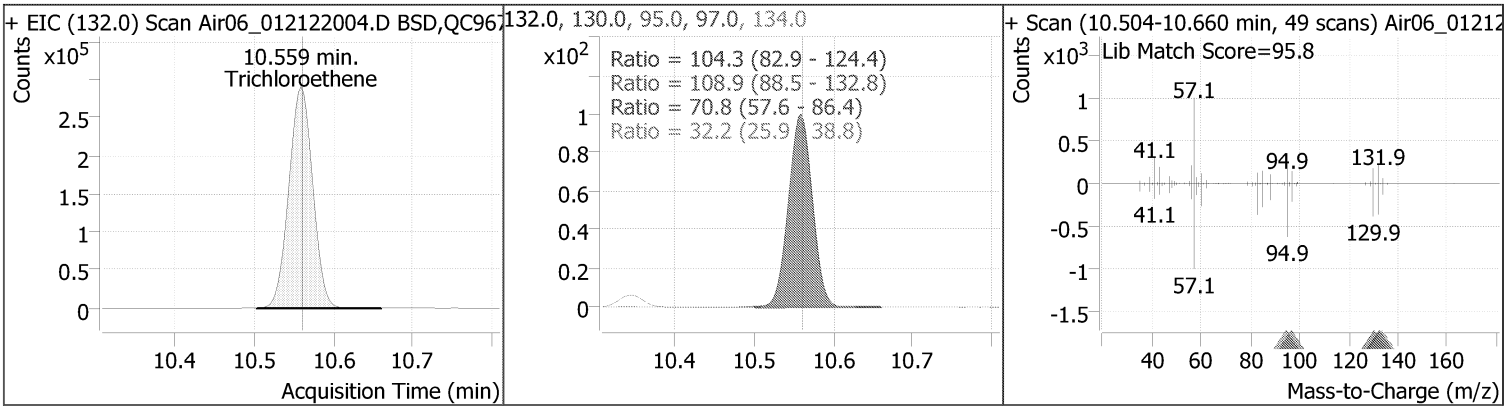

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 9.4649 | 10.51 | 0.00 | 1053552 | 85.0 | 64.3 | 51.4 | 77.1 |
| | | | | | 47.0 | 26.2 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.3 | 9.1 | 13.7 |



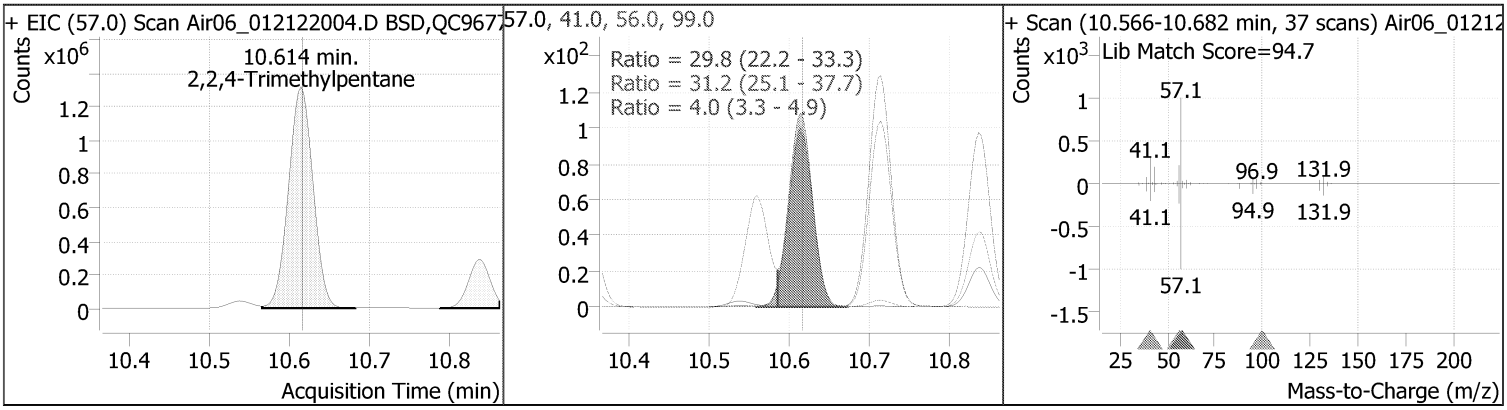
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 8.8396 | 10.54 | 0.00 | 314678 | 58.0 | 86.6 | 67.8 | 101.6 |
| | | | | | 43.0 | 38.4 | 28.4 | 42.6 |



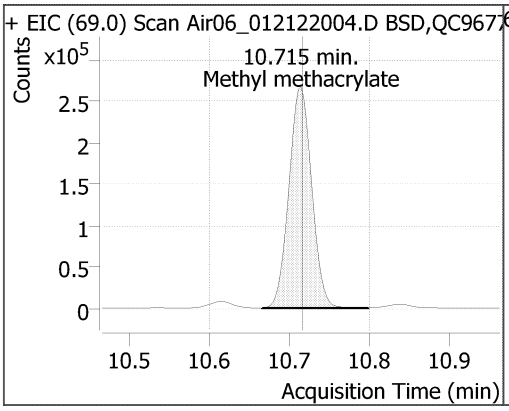

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 8.7339 | 10.56 | 0.00 | 606092 | 95.0 | 108.9 | 88.5 | 132.8 |
| | | | | | 130.0 | 104.3 | 82.9 | 124.4 |
| | | | | | 97.0 | 70.8 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.2 | 25.9 | 38.8 |

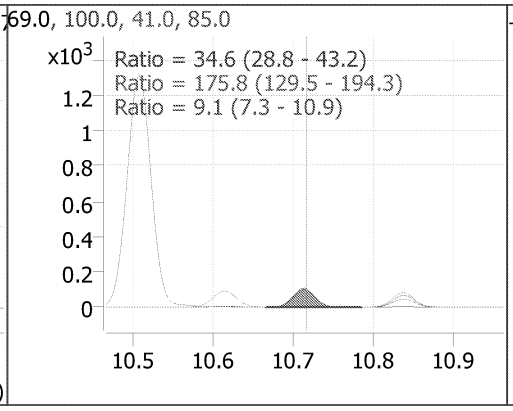


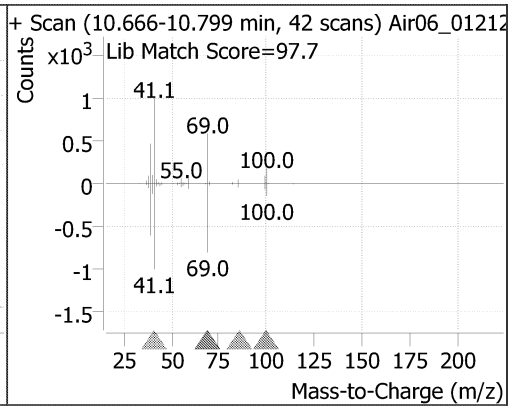

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 9.0754 | 10.61 | 0.00 | 2817534 | 56.0 | 31.2 | 25.1 | 37.7 |
| | | | | | 41.0 | 29.8 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.0 | 3.3 | 4.9 |



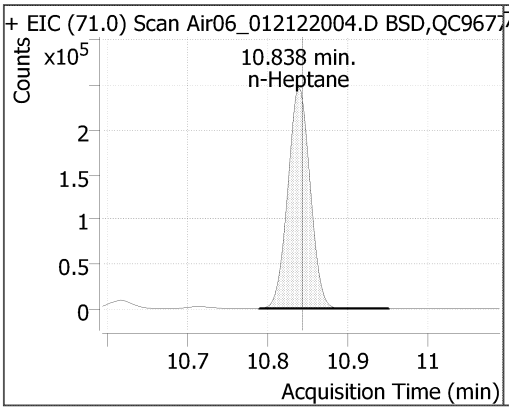
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 9.2069 | 10.71 | 0.00 | 533155 | 41.0 | 175.8 | 129.5 | 194.3 |
| | | | | | 100.0 | 34.6 | 28.8 | 43.2 |
| | | | | | 85.0 | 9.1 | 7.3 | 10.9 |

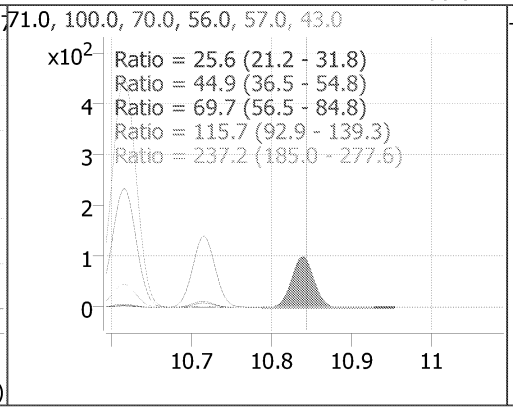


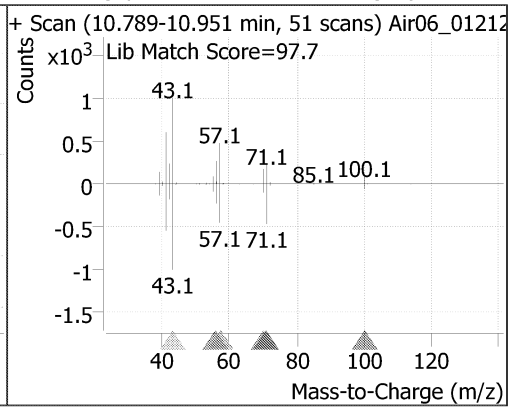



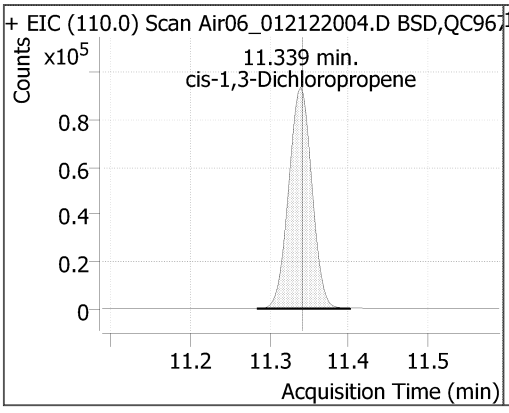

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 9.0255 | 10.84 | 0.00 | 484042 | 43.0 | 237.2 | 185.0 | 277.6 |
| | | | | | 57.0 | 115.7 | 92.9 | 139.3 |
| | | | | | 56.0 | 69.7 | 56.5 | 84.8 |
| | | | | | 70.0 | 44.9 | 36.5 | 54.8 |
| | | | | | 100.0 | 25.6 | 21.2 | 31.8 |

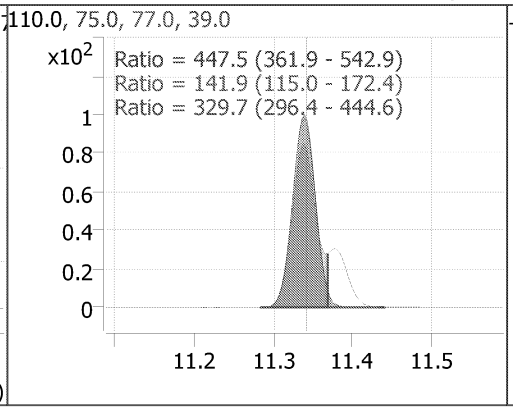


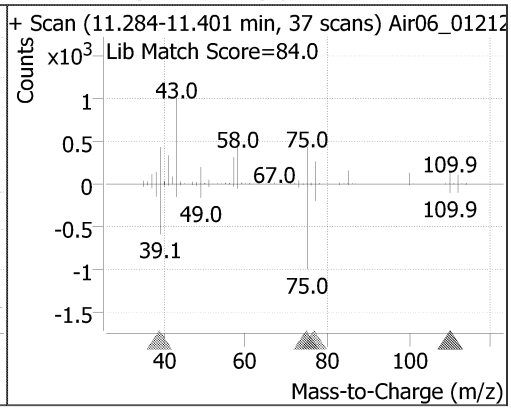



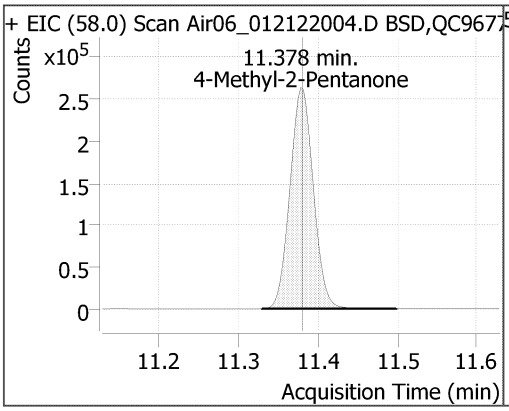

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 8.7718 | 11.34 | 0.00 | 189958 | 75.0 | 447.5 | 361.9 | 542.9 |
| | | | | | 39.0 | 329.7 | 296.4 | 444.6 |
| | | | | | 77.0 | 141.9 | 115.0 | 172.4 |

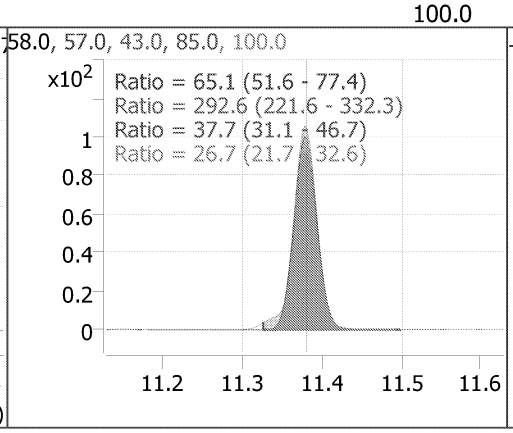


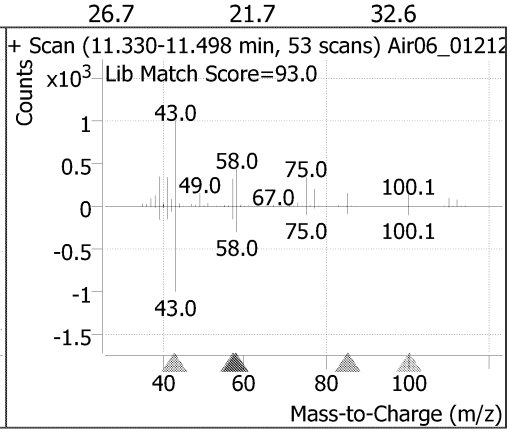



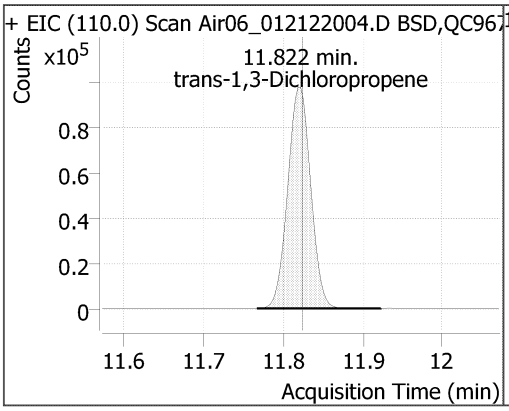
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 9.0180 | 11.38 | 0.00 | 539565 | 43.0 | 292.6 | 221.6 | 332.3 |
| | | | | | 57.0 | 65.1 | 51.6 | 77.4 |
| | | | | | 85.0 | 37.7 | 31.1 | 46.7 |
| | | | | | 100.0 | 26.7 | 21.7 | 32.6 |

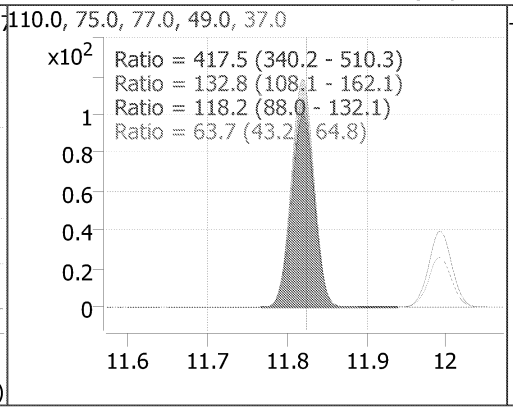


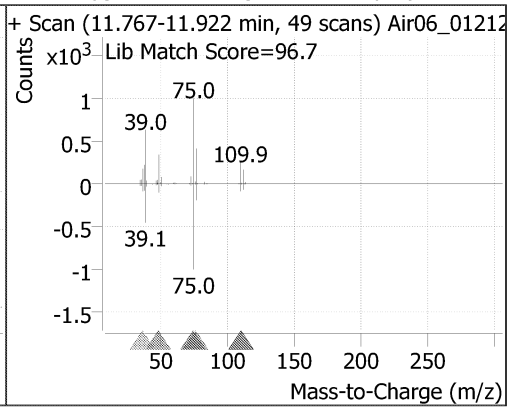



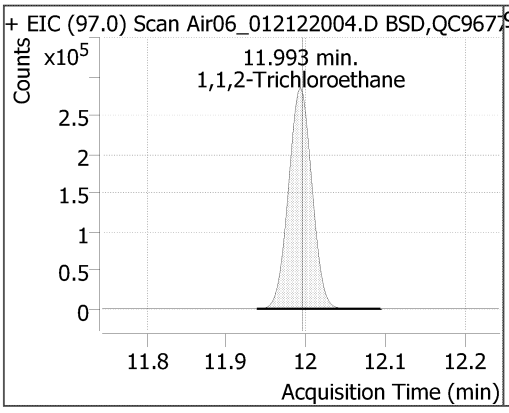

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 8.8734 | 11.82 | 0.00 | 197016 | 75.0 | 417.5 | 340.2 | 510.3 |
| | | | | | 77.0 | 132.8 | 108.1 | 162.1 |
| | | | | | 49.0 | 118.2 | 88.0 | 132.1 |
| | | | | | 37.0 | 63.7 | 43.2 | 64.8 |

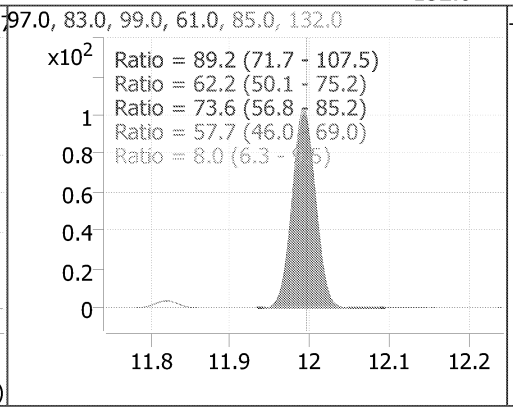


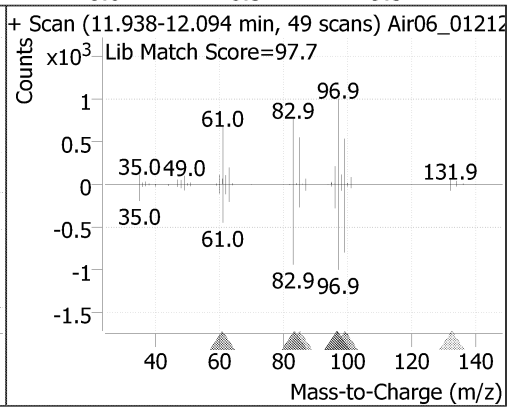



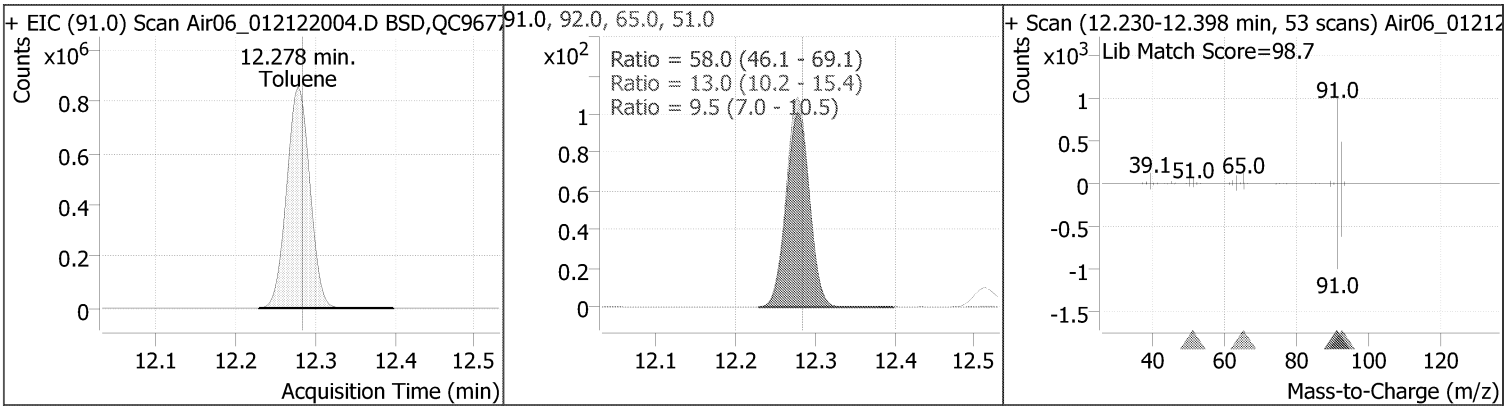

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 9.0695 | 11.99 | 0.00 | 589198 | 83.0 | 89.2 | 71.7 | 107.5 |
| | | | | | 61.0 | 73.6 | 56.8 | 85.2 |
| | | | | | 99.0 | 62.2 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.7 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.0 | 6.3 | 9.5 |



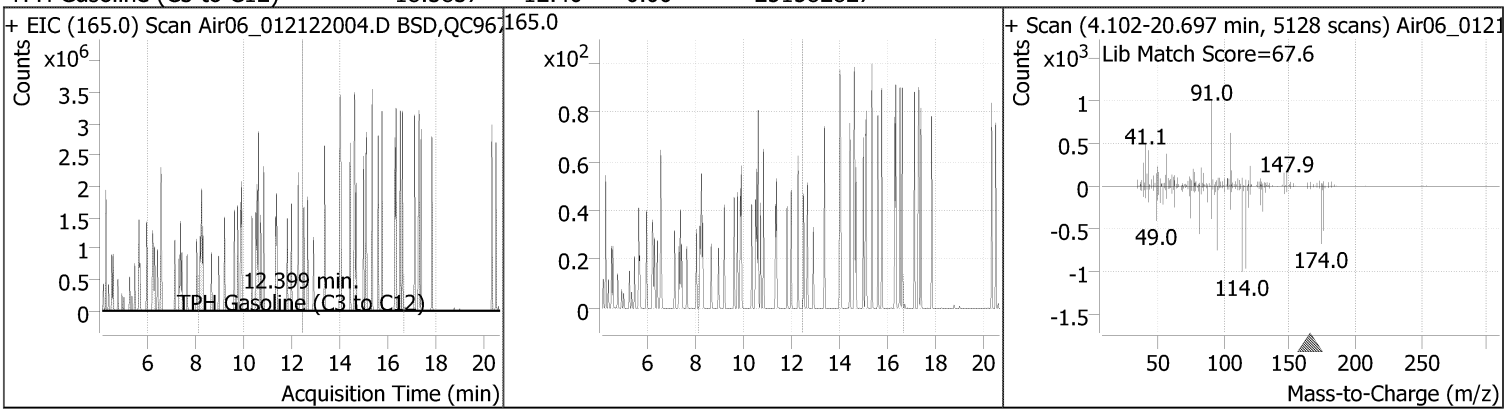



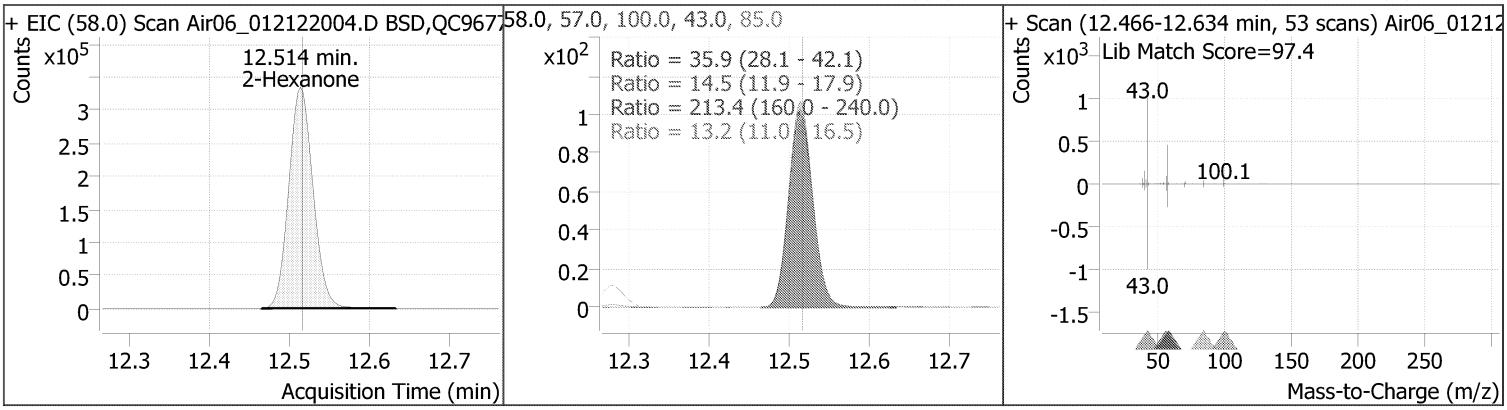
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 8.8230 | 12.28 | 0.00 | 1741669 | 92.0 | 58.0 | 46.1 | 69.1 |
| | | | | | 65.0 | 13.0 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.5 | 7.0 | 10.5 |



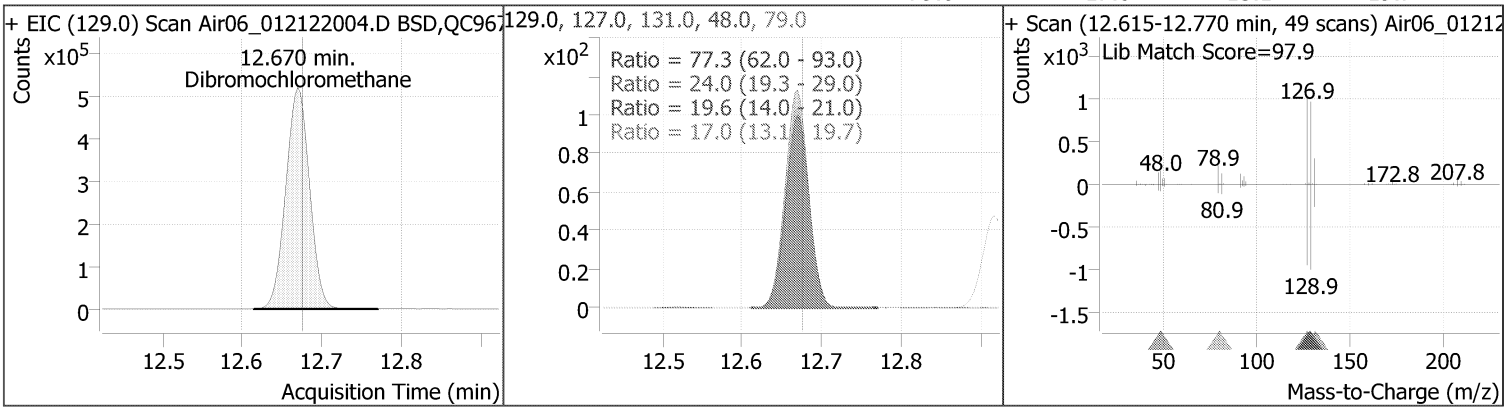

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 18.3837 | 12.40 | 0.00 | 251582827 | | | | |



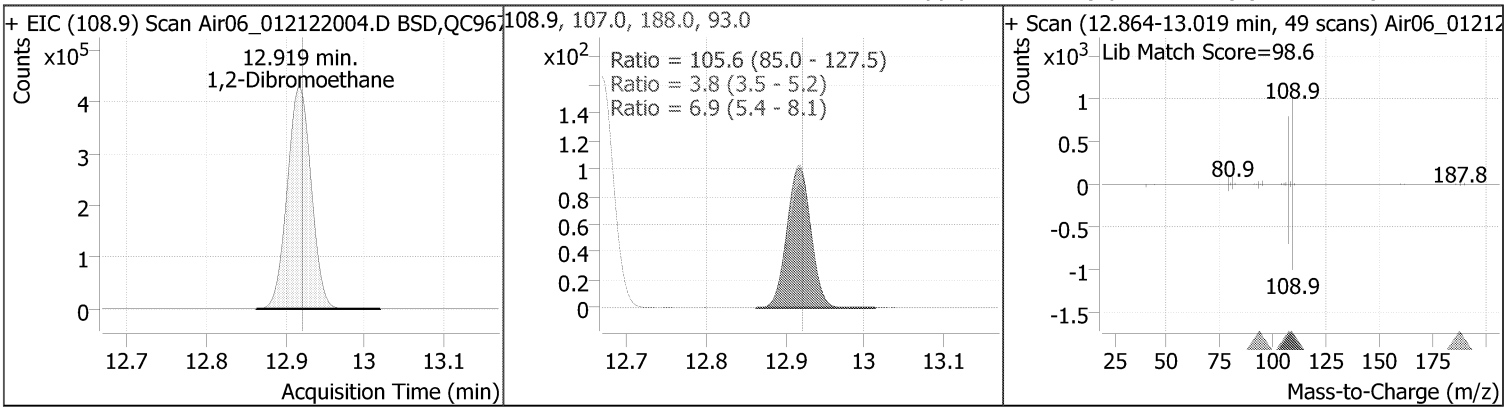

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 9.2346 | 12.51 | 0.00 | 709653 | 43.0 | 213.4 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.9 | 28.1 | 42.1 |
| | | | | | 100.0 | 14.5 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.2 | 11.0 | 16.5 |



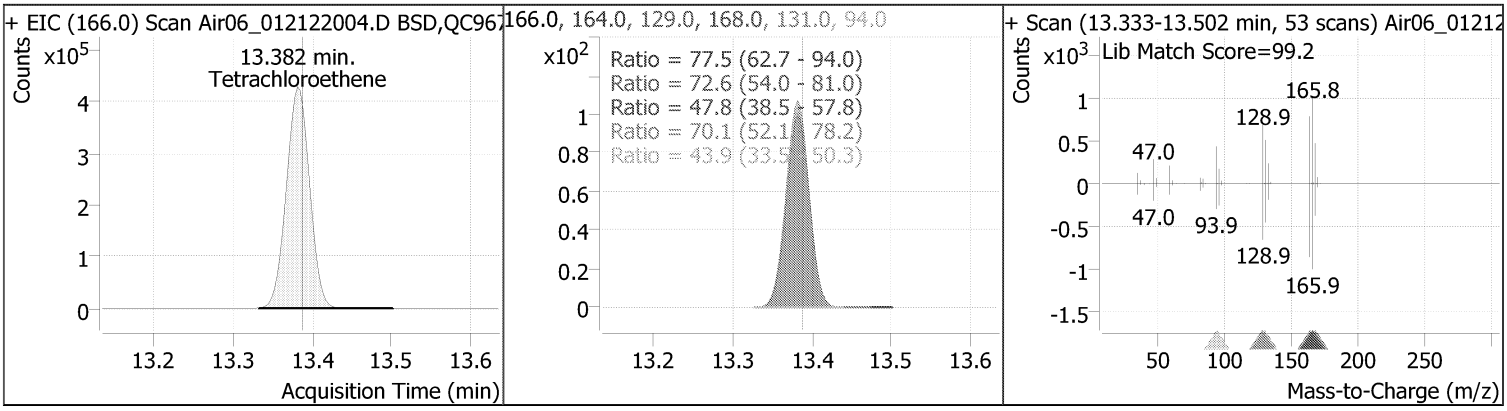
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 9.1918 | 12.67 | 0.00 | 1084055 | 127.0 | 77.3 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.0 | 19.3 | 29.0 |
| | | | | | 48.0 | 19.6 | 14.0 | 21.0 |
| | | | | | 79.0 | 17.0 | 13.1 | 19.7 |



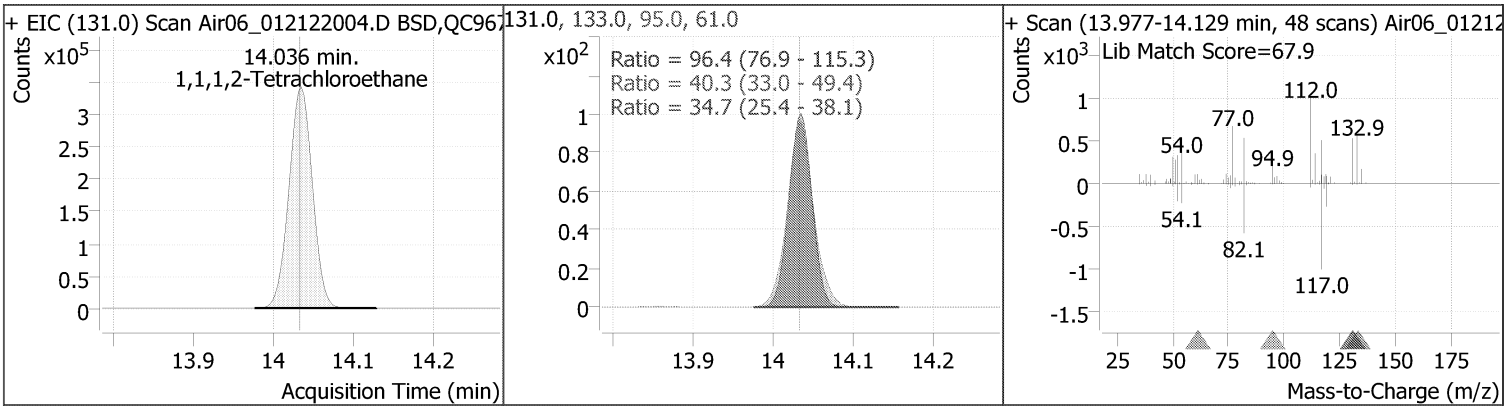

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 9.0554 | 12.92 | 0.00 | 905042 | 107.0 | 105.6 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.9 | 5.4 | 8.1 |
| | | | | | 188.0 | 3.8 | 3.5 | 5.2 |



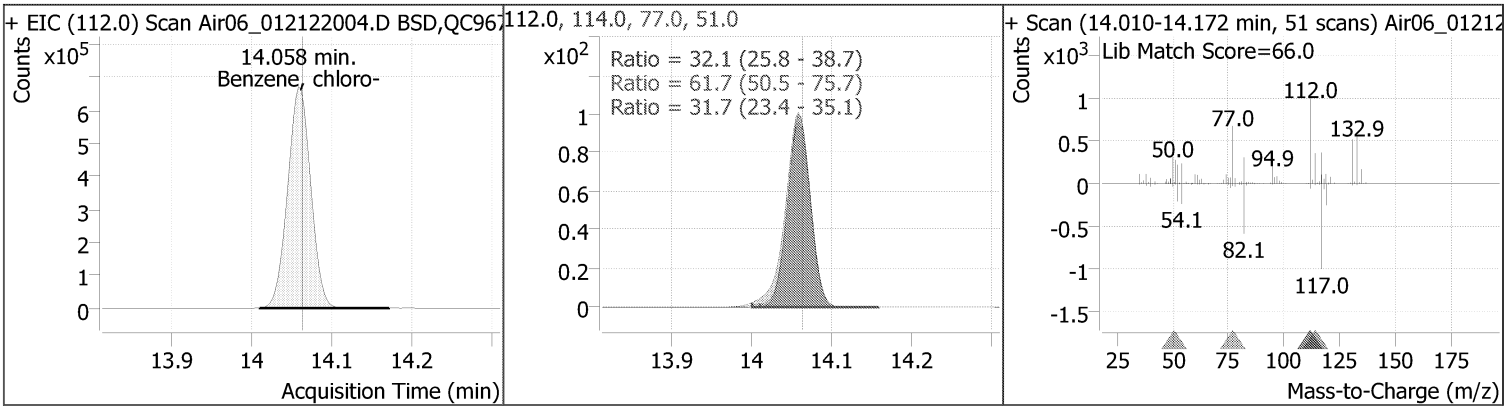

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 8.5575 | 13.38 | 0.00 | 873354 | 164.0 | 77.5 | 62.7 | 94.0 |
| | | | | | 129.0 | 72.6 | 54.0 | 81.0 |
| | | | | | 131.0 | 70.1 | 52.1 | 78.2 |
| | | | | | 168.0 | 47.8 | 38.5 | 57.8 |
| | | | | | 94.0 | 43.9 | 33.5 | 50.3 |



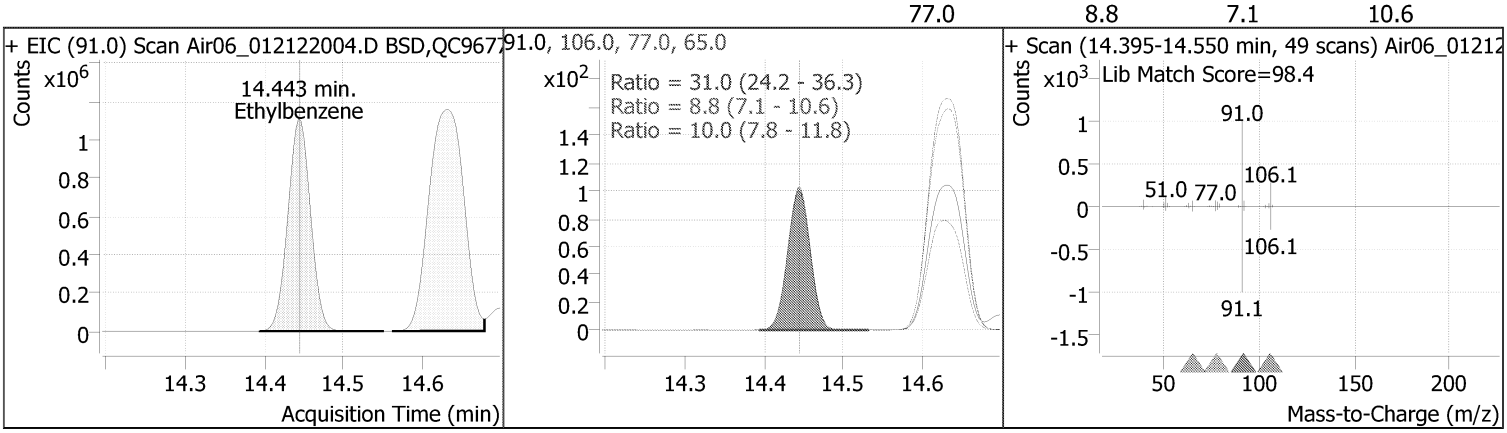
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 9.5779 | 14.04 | 0.00 | 702195 | 133.0 | 96.4 | 76.9 | 115.3 |
| | | | | | 95.0 | 40.3 | 33.0 | 49.4 |
| | | | | | 61.0 | 34.7 | 25.4 | 38.1 |



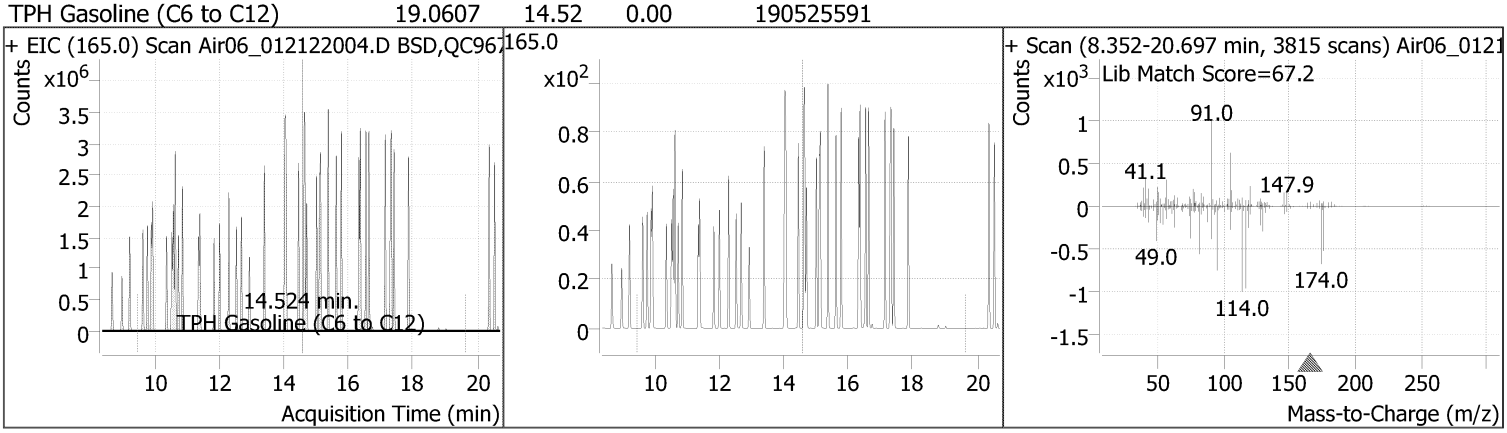

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 9.2965 | 14.06 | 0.00 | 1352513 | 77.0 | 61.7 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.1 | 25.8 | 38.7 |
| | | | | | 51.0 | 31.7 | 23.4 | 35.1 |



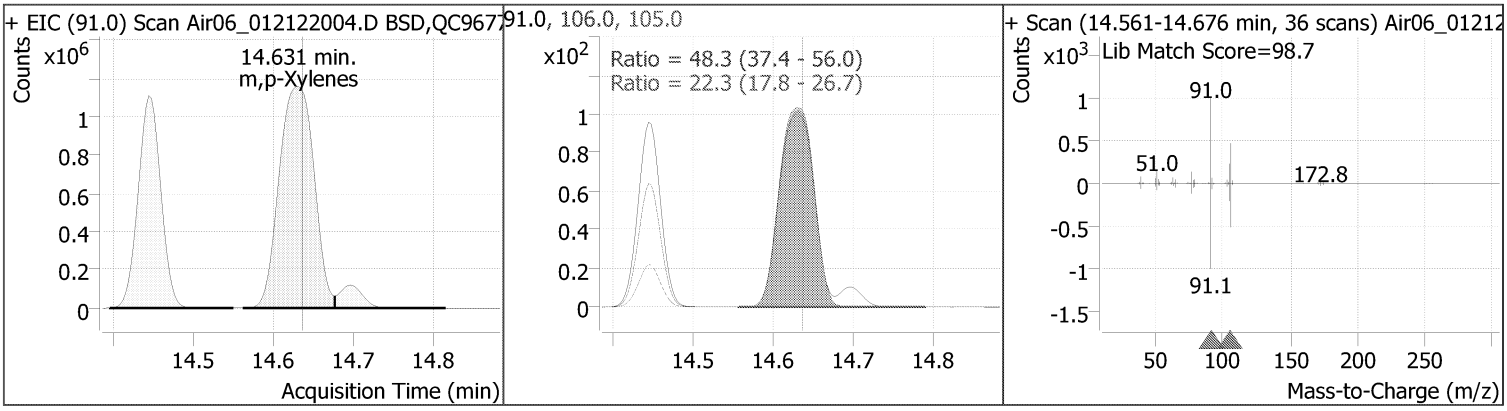

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 9.5133 | 14.44 | 0.00 | 2198862 | 106.0 | 31.0 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.0 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.8 | 7.1 | 10.6 |



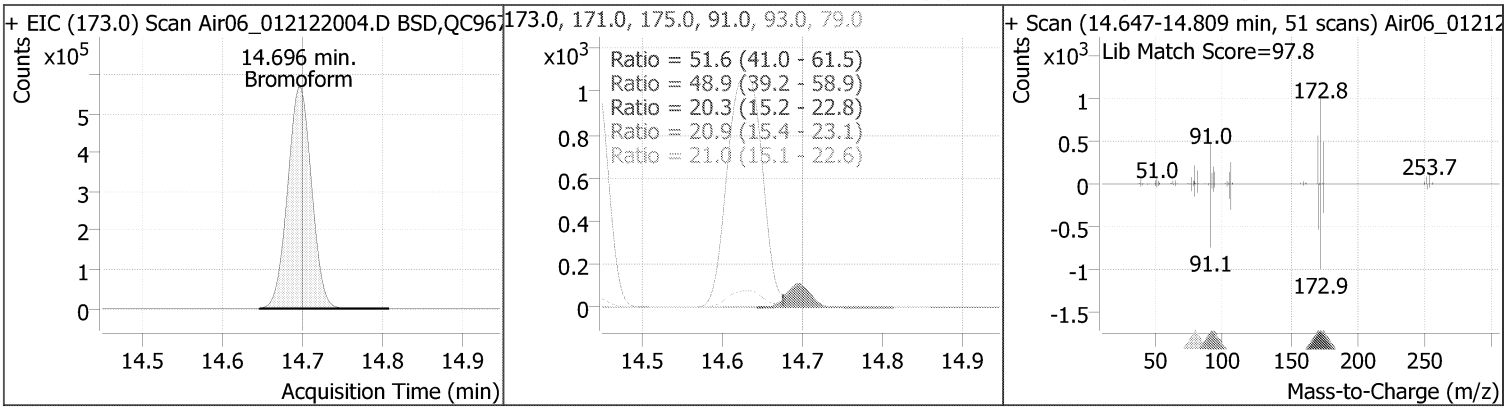
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 19.0607 | 14.52 | 0.00 | 190525591 | | | | |



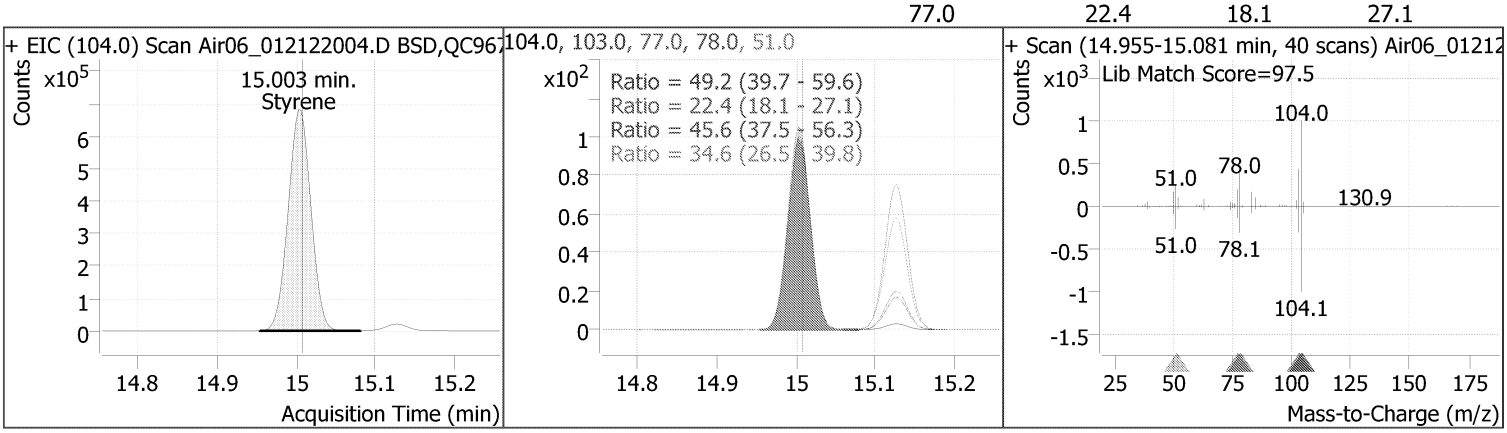

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 18.9841 | 14.63 | 0.00 | 3528937 | 106.0 | 48.3 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.3 | 17.8 | 26.7 |



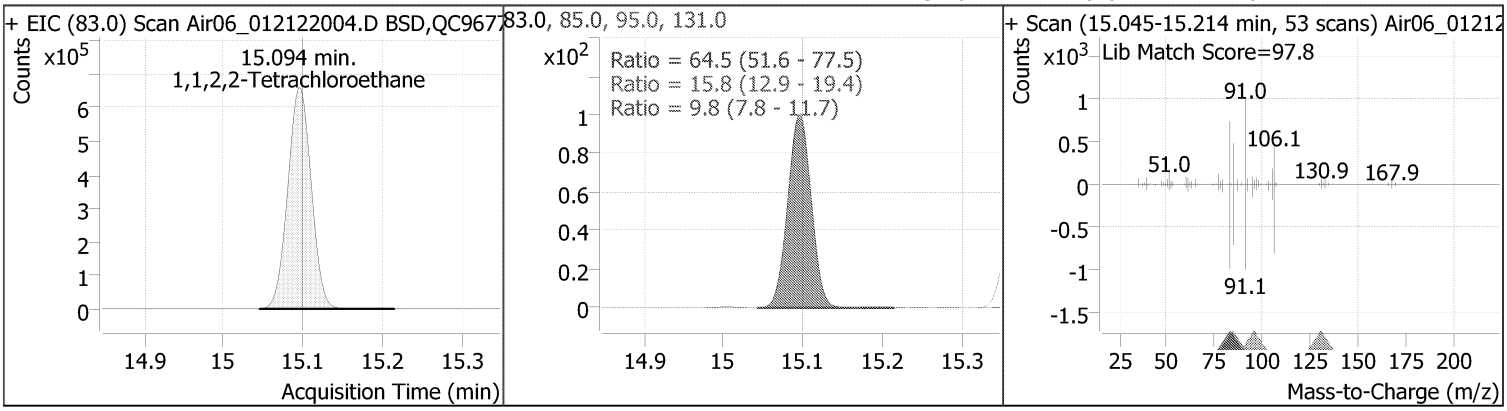

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 9.3252 | 14.70 | 0.00 | 1187282 | 171.0 | 51.6 | 41.0 | 61.5 |
| | | | | | 175.0 | 48.9 | 39.2 | 58.9 |
| | | | | | 93.0 | 20.9 | 15.4 | 23.1 |
| | | | | | 91.0 | 20.3 | 15.2 | 22.8 |
| | | | | | 79.0 | 21.0 | 15.1 | 22.6 |



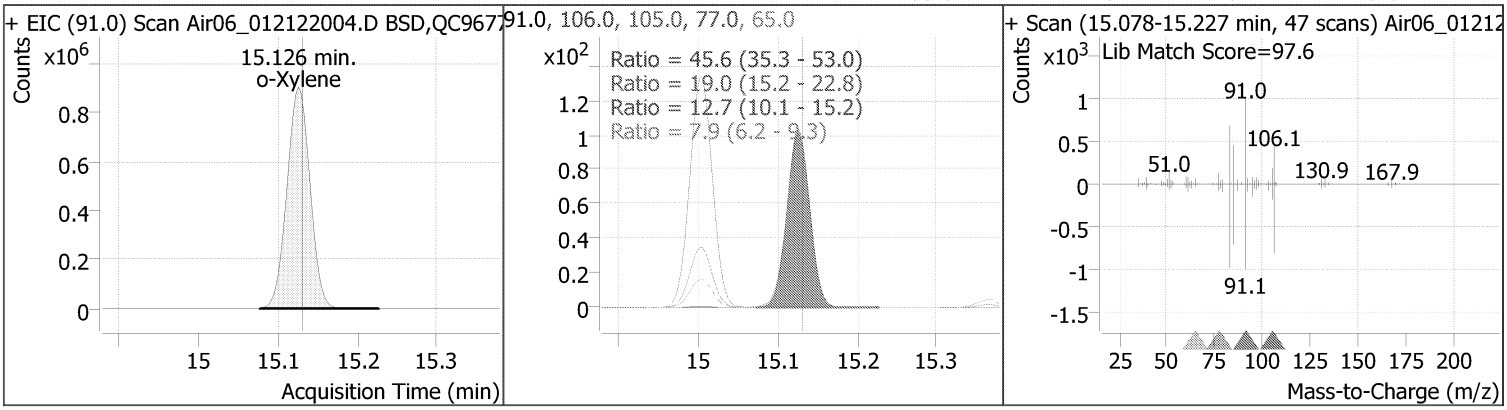
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 9.2016 | 15.00 | 0.00 | 1355495 | 103.0 | 49.2 | 39.7 | 59.6 |
| | | | | | 78.0 | 45.6 | 37.5 | 56.3 |
| | | | | | 51.0 | 34.6 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.4 | 18.1 | 27.1 |



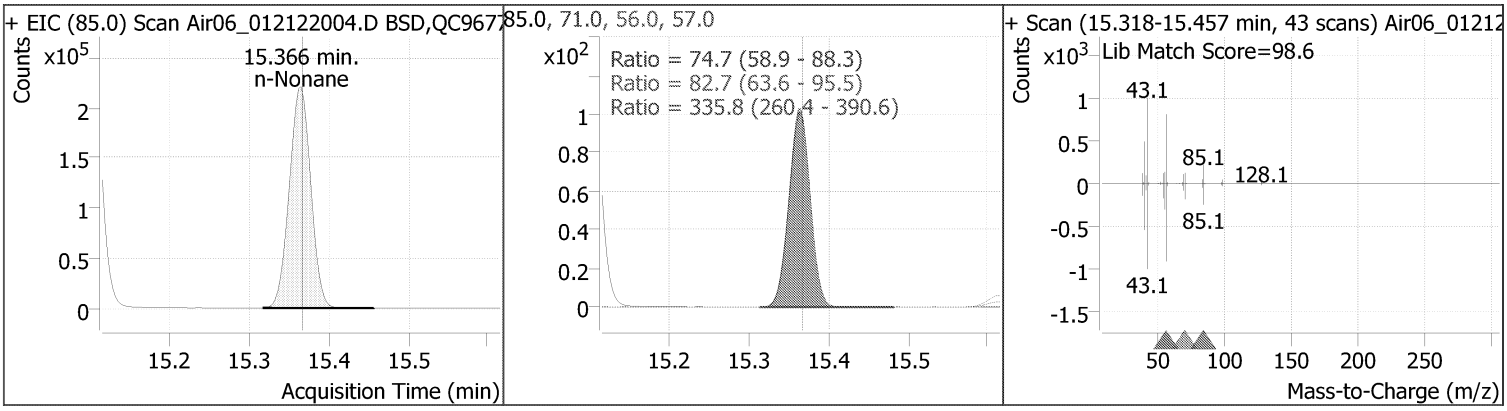

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 9.6334 | 15.09 | 0.00 | 1353206 | 85.0 | 64.5 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.8 | 12.9 | 19.4 |
| | | | | | 131.0 | 9.8 | 7.8 | 11.7 |



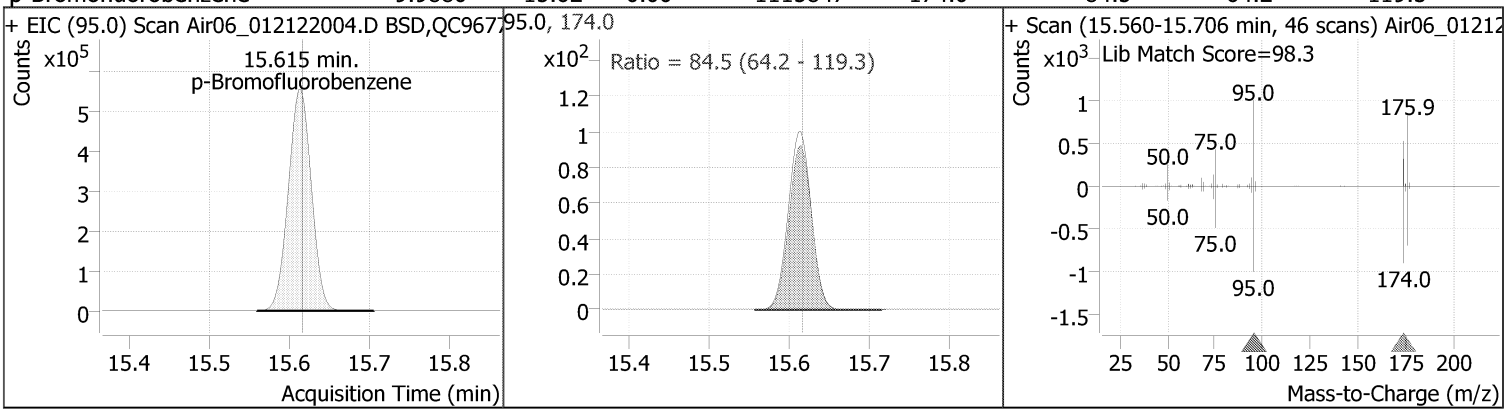

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 9.4945 | 15.13 | 0.00 | 1814550 | 106.0 | 45.6 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.0 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.7 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.9 | 6.2 | 9.3 |



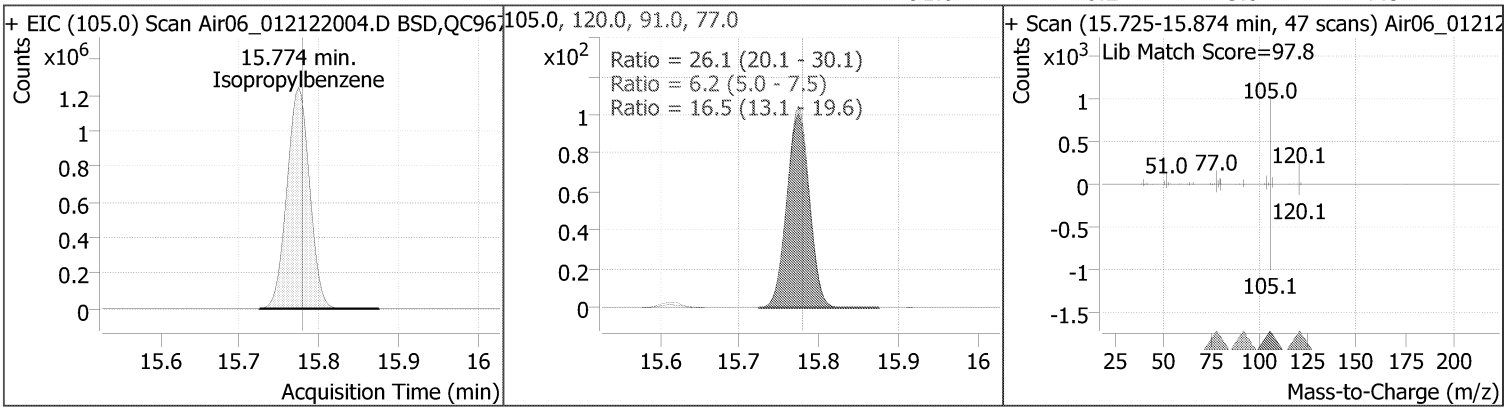
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 9.3286 | 15.37 | 0.00 | 411883 | 57.0 | 335.8 | 260.4 | 390.6 |
| | | | | | 56.0 | 82.7 | 63.6 | 95.5 |
| | | | | | 71.0 | 74.7 | 58.9 | 88.3 |



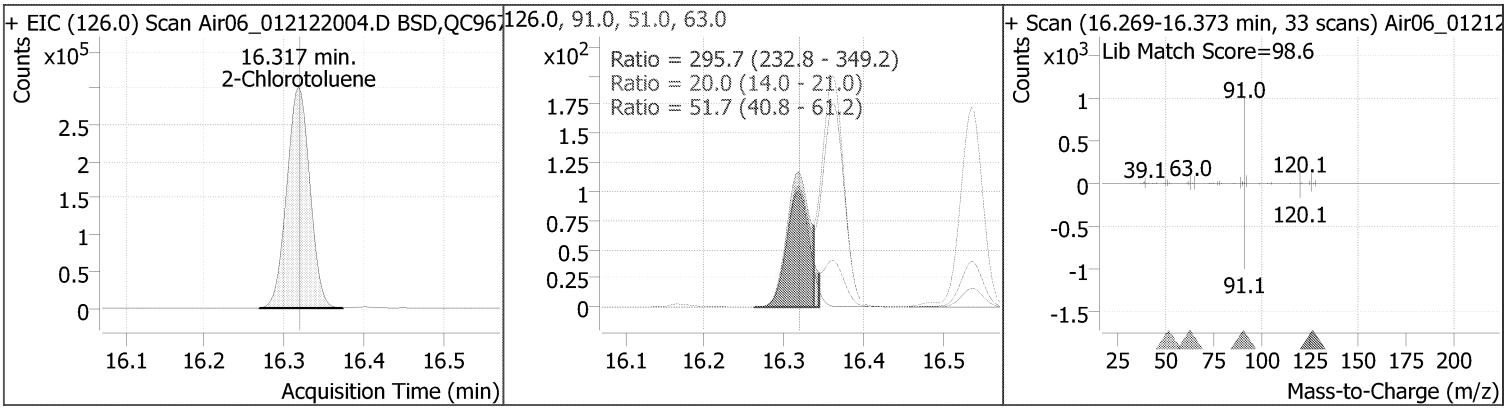

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 9.9880 | 15.62 | 0.00 | 1115847 | 174.0 | 84.5 | 64.2 | 119.3 |



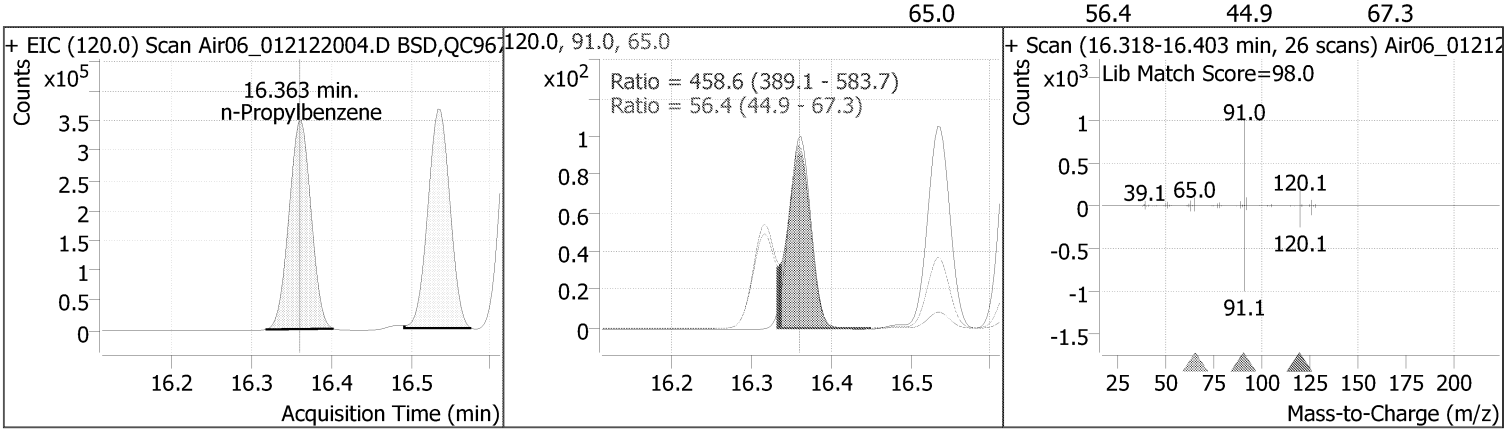

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 9.3795 | 15.77 | 0.00 | 2457252 | 120.0 | 26.1 | 20.1 | 30.1 |
| | | | | | 77.0 | 16.5 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.2 | 5.0 | 7.5 |



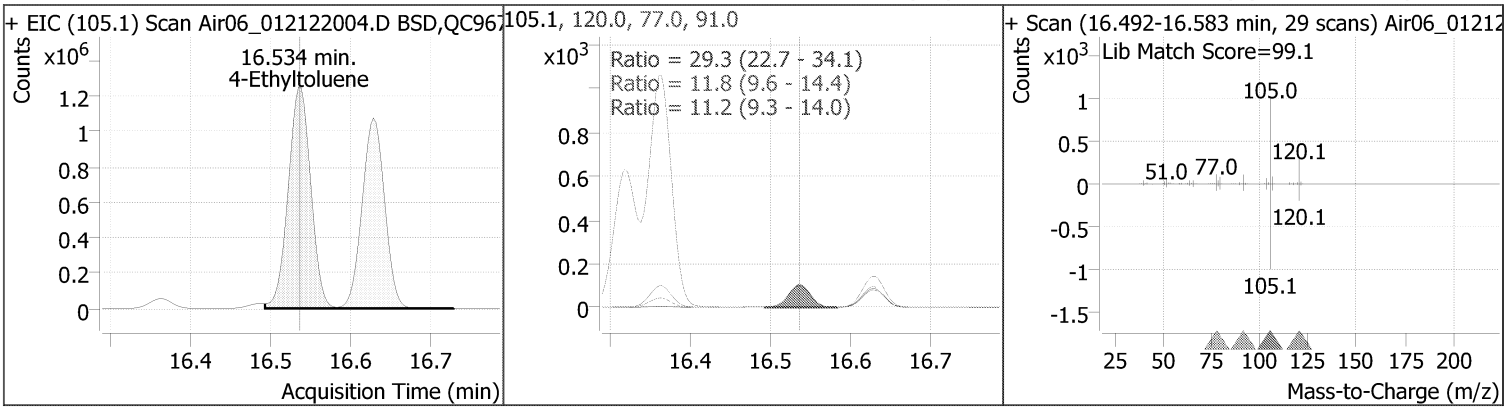
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 9.1209 | 16.32 | 0.00 | 608608 | 91.0 | 295.7 | 232.8 | 349.2 |
| | | | | | 63.0 | 51.7 | 40.8 | 61.2 |
| | | | | | 51.0 | 20.0 | 14.0 | 21.0 |



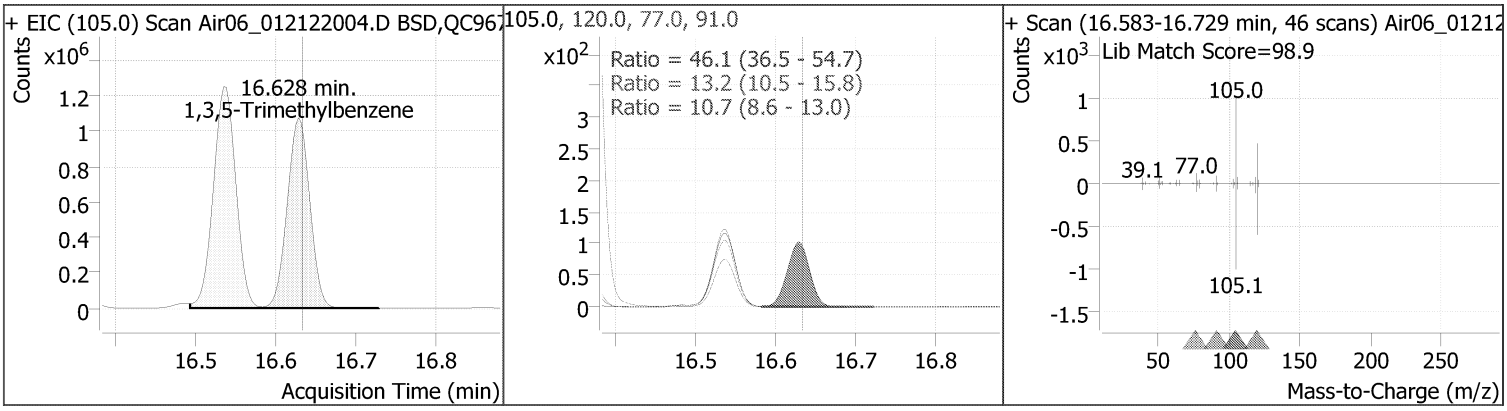

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 9.1655 | 16.36 | 0.00 | 670903 | 91.0 | 458.6 | 389.1 | 583.7 |
| | | | | | 65.0 | 56.4 | 44.9 | 67.3 |



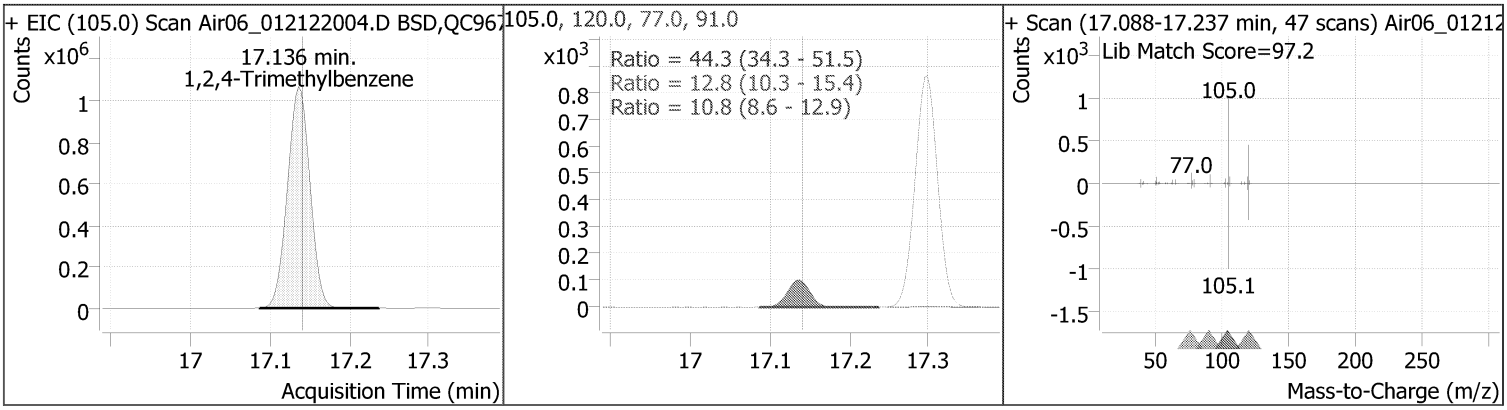

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 9.4898 | 16.53 | 0.00 | 2460290 | 120.0 | 29.3 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.8 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.2 | 9.3 | 14.0 |



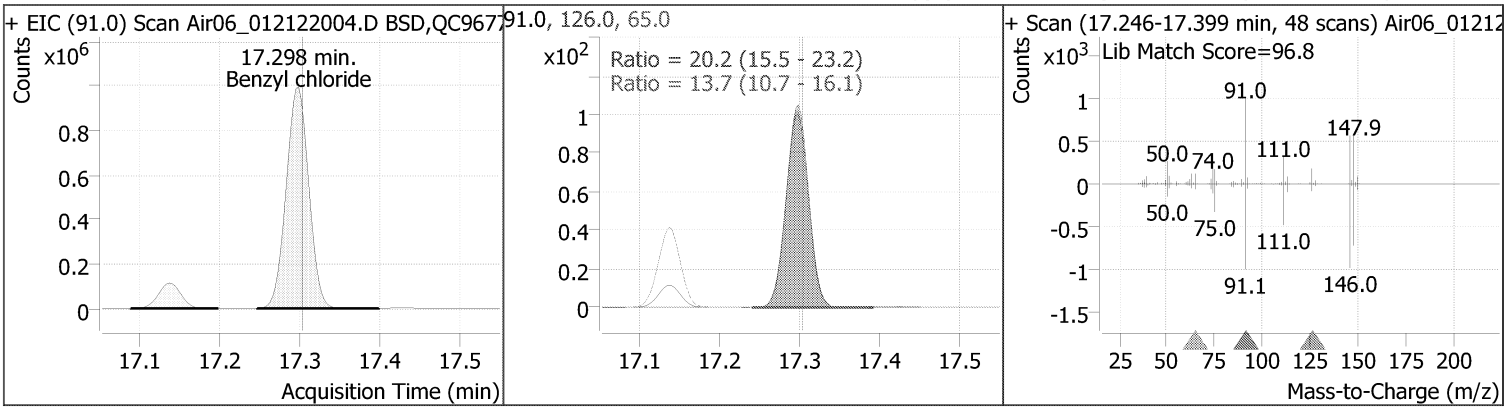
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 9.4324 | 16.63 | 0.00 | 2116931 | 120.0 | 46.1 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.2 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.7 | 8.6 | 13.0 |



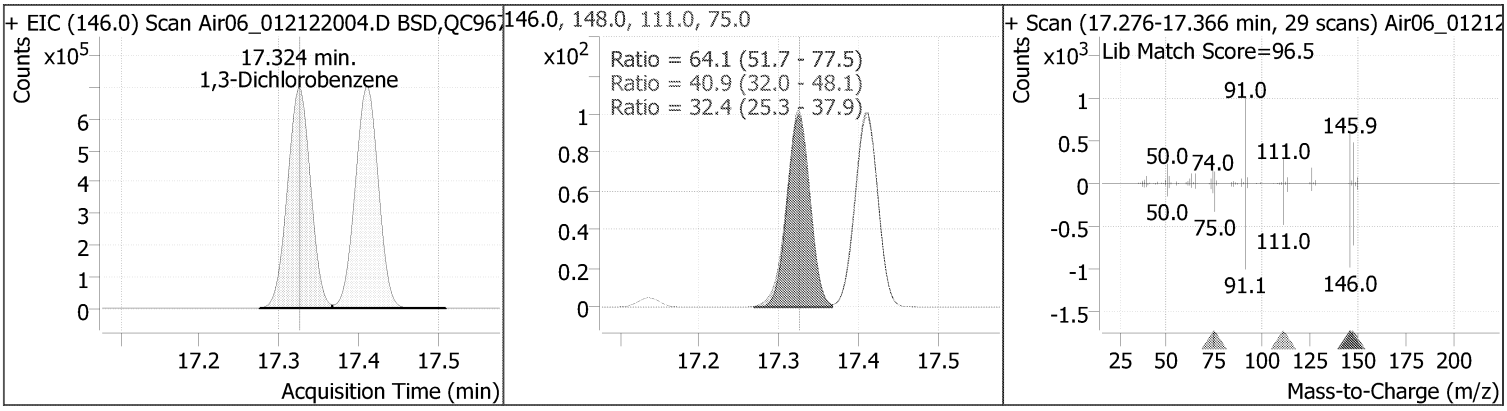

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 9.4282 | 17.14 | 0.00 | 2101636 | 120.0 | 44.3 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.8 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.8 | 8.6 | 12.9 |



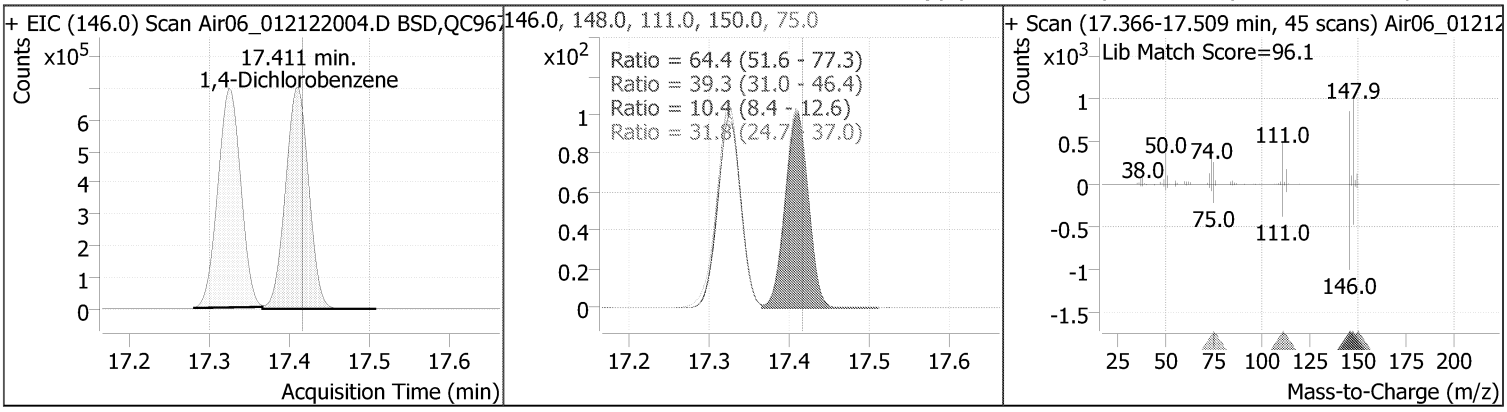

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 10.0040 | 17.30 | 0.00 | 1960792 | 126.0 | 20.2 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.7 | 10.7 | 16.1 |



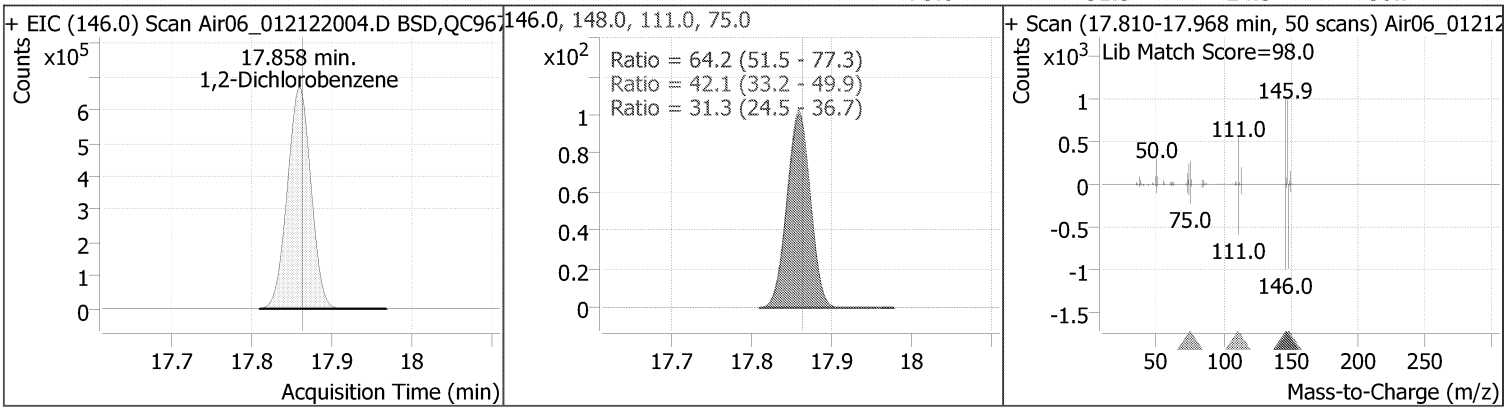
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 9.2486 | 17.32 | 0.00 | 1414071 | 148.0 | 64.1 | 51.7 | 77.5 |
| | | | | | 111.0 | 40.9 | 32.0 | 48.1 |
| | | | | | 75.0 | 32.4 | 25.3 | 37.9 |



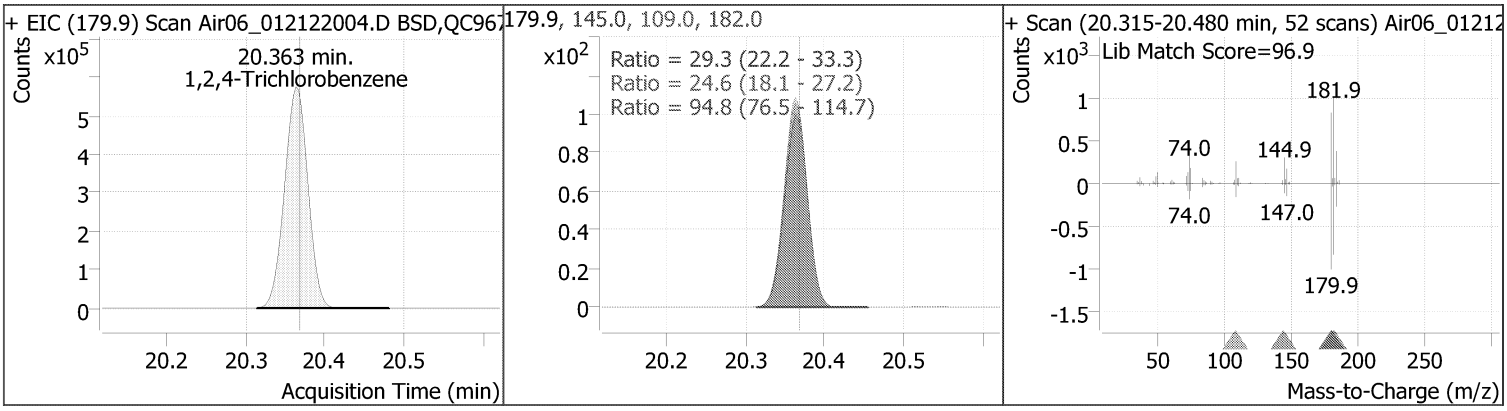

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 9.2086 | 17.41 | 0.00 | 1423724 | 148.0 | 64.4 | 51.6 | 77.3 |
| | | | | | 111.0 | 39.3 | 31.0 | 46.4 |
| | | | | | 75.0 | 31.8 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.4 | 8.4 | 12.6 |



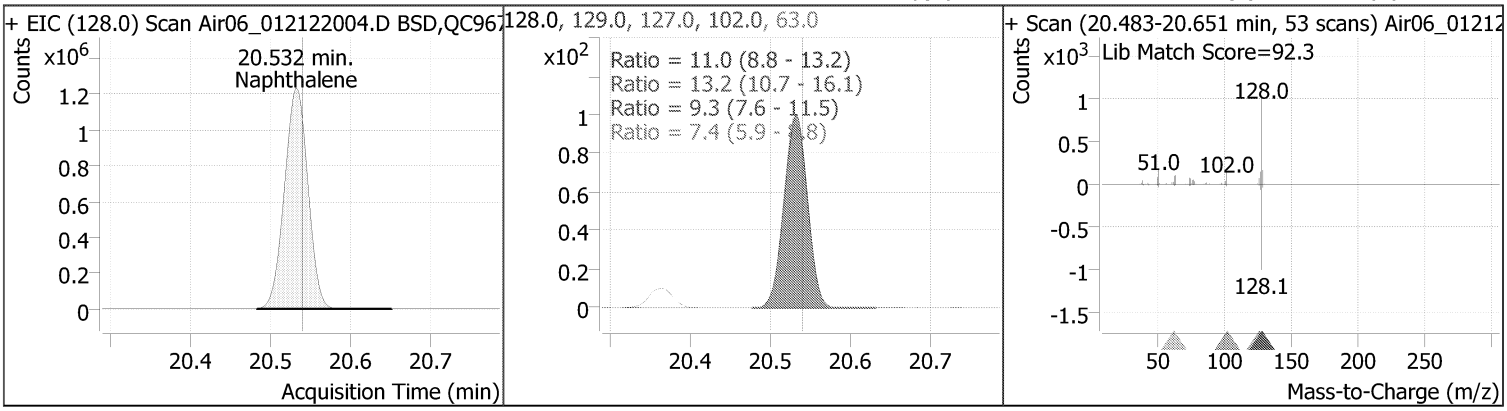

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 9.2322 | 17.86 | 0.00 | 1376760 | 148.0 | 64.2 | 51.5 | 77.3 |
| | | | | | 111.0 | 42.1 | 33.2 | 49.9 |
| | | | | | 75.0 | 31.3 | 24.5 | 36.7 |



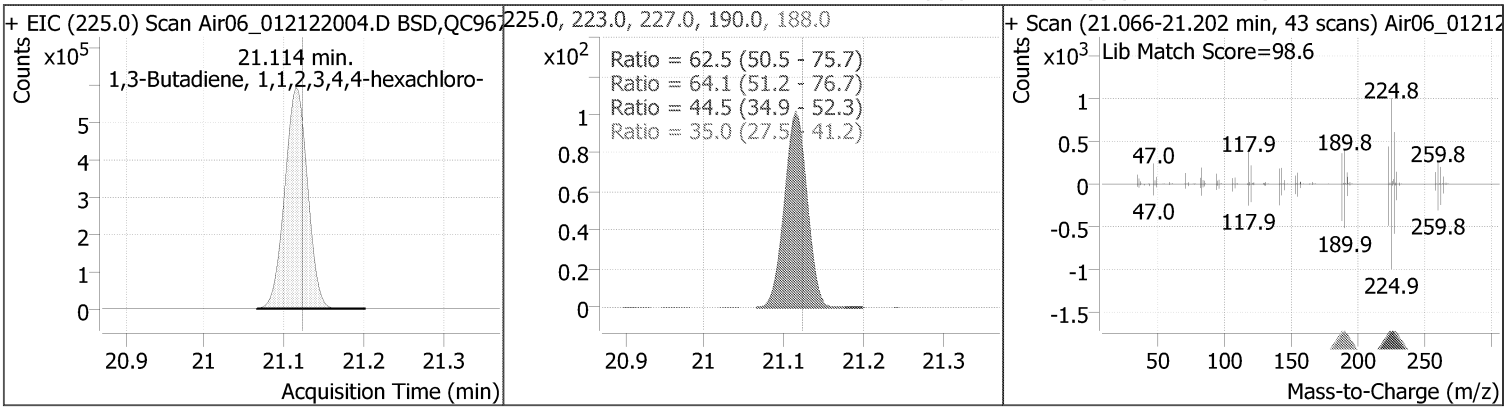
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 9.5269 | 20.36 | -0.01 | 1170687 | 182.0 | 94.8 | 76.5 | 114.7 |
| | | | | | 145.0 | 29.3 | 22.2 | 33.3 |
| | | | | | 109.0 | 24.6 | 18.1 | 27.2 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 9.9563 | 20.53 | -0.01 | 2532279 | 127.0 | 13.2 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.3 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.4 | 5.9 | 8.8 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 8.9007 | 21.11 | -0.01 | 1175297 | 227.0 | 64.1 | 51.2 | 76.7 |
| | | | | | 223.0 | 62.5 | 50.5 | 75.7 |
| | | | | | 190.0 | 44.5 | 34.9 | 52.3 |
| | | | | | 188.0 | 35.0 | 27.5 | 41.2 |



# ENTHALPY SPIKE USER REPORT FOR 456991 MSAIR Air
## EPA TO-15

Type : CCV/BS
Inst : AIR-MS-06
Seqnum : 372032312002.2
File : air06_012222002
IDF : 1.0
PDF : 1.0
Lab ID : QC967922
Matrix : Air
Batch : 282327
Time : 22-JAN-2022 11:18
Cal : 372007975001
Units : nL/L

Type : BSD
Inst : AIR-MS-06
Seqnum : 372032312003.2
File : air06_012222003
IDF : 1.0
PDF : 1.0
Lab ID : QC967923
Matrix : Air
Batch : 282327
Time : 22-JAN-2022 12:04
Cal : 372007975001

| Analyte | Spiked | CCV/BS Raw | CCV/BS Result | %Rec | BSD Raw | BSD Result | %Rec | Limits | RPD | Lim | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Freon 12 | 10.00 | 11.21 | 11.21 | 112 | 11.09 | 11.09 | 111 | 70-130 | 1 | 30 | u |
| Freon 114 | 10.00 | 10.27 | 10.27 | 103 | 10.23 | 10.23 | 102 | 70-130 | 0 | 30 | u |
| Chloromethane | 10.00 | 10.09 | 10.09 | 101 | 10.04 | 10.04 | 100 | 70-130 | 0 | 30 | u |
| Vinyl Chloride | 10.00 | 10.02 | 10.02 | 100 | 9.914 | 9.914 | 99 | 70-130 | 1 | 30 | u |
| Bromomethane | 10.00 | 10.26 | 10.26 | 103 | 10.12 | 10.12 | 101 | 70-130 | 1 | 30 | u |
| Chloroethane | 10.00 | 10.12 | 10.12 | 101 | 10.12 | 10.12 | 101 | 70-130 | 0 | 30 | u |
| Trichlorofluoromethane | 10.00 | 11.08 | 11.08 | 111 | 10.96 | 10.96 | 110 | 70-130 | 1 | 30 | u |
| 1,1-Dichloroethene | 10.00 | 10.41 | 10.41 | 104 | 10.25 | 10.25 | 103 | 70-130 | 1 | 30 | u |
| Freon 113 | 10.00 | 9.976 | 9.976 | 100 | 9.902 | 9.902 | 99 | 70-130 | 1 | 30 | u |
| Acetone | 10.00 | 9.759 | 9.759 | 98 | 9.725 | 9.725 | 97 | 70-130 | 0 | 30 | u |
| Carbon Disulfide | 10.00 | 9.553 | 9.553 | 96 | 9.473 | 9.473 | 95 | 70-130 | 1 | 30 | u |
| Isopropanol (IPA) | 10.00 | 10.66 | 10.66 | 107 | 10.63 | 10.63 | 106 | 70-130 | 0 | 30 | u |
| Methylene Chloride | 10.00 | 9.170 | 9.170 | 92 | 9.163 | 9.163 | 92 | 70-130 | 0 | 30 | u |
| trans-1,2-Dichloroethene | 10.00 | 9.967 | 9.967 | 100 | 9.836 | 9.836 | 98 | 70-130 | 1 | 30 | u |
| MTBE | 10.00 | 10.40 | 10.40 | 104 | 10.24 | 10.24 | 102 | 70-130 | 2 | 30 | u |
| n-Hexane | 10.00 | 9.415 | 9.415 | 94 | 9.358 | 9.358 | 94 | 70-130 | 1 | 30 | u |
| 1,1-Dichloroethane | 10.00 | 9.941 | 9.941 | 99 | 9.931 | 9.931 | 99 | 70-130 | 0 | 30 | u |
| Vinyl Acetate | 10.00 | 9.051 | 9.051 | 91 | 9.079 | 9.079 | 91 | 70-130 | 0 | 30 | u |
| cis-1,2-Dichloroethene | 10.00 | 9.991 | 9.991 | 100 | 10.01 | 10.01 | 100 | 70-130 | 0 | 30 | u |
| 2-Butanone | 10.00 | 10.04 | 10.04 | 100 | 10.01 | 10.01 | 100 | 70-130 | 0 | 30 | u |
| Chloroform | 10.00 | 10.55 | 10.55 | 105 | 10.41 | 10.41 | 104 | 70-130 | 1 | 30 | u |
| 1,1,1-Trichloroethane | 10.00 | 10.86 | 10.86 | 109 | 10.73 | 10.73 | 107 | 70-130 | 1 | 30 | u |
| Carbon Tetrachloride | 10.00 | 10.92 | 10.92 | 109 | 10.73 | 10.73 | 107 | 70-130 | 2 | 30 | u |
| Benzene | 10.00 | 9.480 | 9.480 | 95 | 9.422 | 9.422 | 94 | 70-130 | 1 | 30 | u |
| 1,2-Dichloroethane | 10.00 | 11.16 | 11.16 | 112 | 10.96 | 10.96 | 110 | 70-130 | 2 | 30 | u |
| Trichloroethene | 10.00 | 8.701 | 8.701 | 87 | 8.726 | 8.726 | 87 | 70-130 | 0 | 30 | u |
| 1,2-Dichloropropane | 10.00 | 8.868 | 8.868 | 89 | 8.821 | 8.821 | 88 | 70-130 | 1 | 30 | u |
| Bromodichloromethane | 10.00 | 9.824 | 9.824 | 98 | 9.781 | 9.781 | 98 | 70-130 | 0 | 30 | u |
| cis-1,3-Dichloropropene | 10.00 | 8.737 | 8.737 | 87 | 8.650 | 8.650 | 87 | 70-130 | 1 | 30 | u |
| 4-Methyl-2-Pentanone | 10.00 | 8.636 | 8.636 | 86 | 8.622 | 8.622 | 86 | 70-130 | 0 | 30 | u |
| Toluene | 10.00 | 8.748 | 8.748 | 87 | 8.737 | 8.737 | 87 | 70-130 | 0 | 30 | u |
| trans-1,3-Dichloropropene | 10.00 | 8.762 | 8.762 | 88 | 8.713 | 8.713 | 87 | 70-130 | 1 | 30 | u |
| 1,1,2-Trichloroethane | 10.00 | 8.987 | 8.987 | 90 | 8.944 | 8.944 | 89 | 70-130 | 0 | 30 | u |
| Tetrachloroethene | 10.00 | 8.658 | 8.658 | 87 | 8.595 | 8.595 | 86 | 70-130 | 1 | 30 | u |
| 2-Hexanone | 10.00 | 8.899 | 8.899 | 89 | 8.930 | 8.930 | 89 | 70-130 | 0 | 30 | u |
| Dibromochloromethane | 10.00 | 9.393 | 9.393 | 94 | 9.412 | 9.412 | 94 | 70-130 | 0 | 30 | u |
| 1,2-Dibromoethane | 10.00 | 9.086 | 9.086 | 91 | 9.109 | 9.109 | 91 | 70-130 | 0 | 30 | u |
| Chlorobenzene | 10.00 | 8.981 | 8.981 | 90 | 8.954 | 8.954 | 90 | 70-130 | 0 | 30 | u |
| Ethylbenzene | 10.00 | 9.275 | 9.275 | 93 | 9.190 | 9.190 | 92 | 70-130 | 1 | 30 | u |
| m,p-Xylenes | 20.00 | 18.79 | 18.79 | 94 | 18.70 | 18.70 | 94 | 70-130 | 0 | 30 | u |

| Analyte | Spiked | CCV/BS Raw | CCV/BS Result | %Rec | BSD Raw | BSD Result | %Rec | Limits | RPD | Lim | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | 10.00 | 9.389 | 9.389 | 94 | 9.307 | 9.307 | 93 | 70-130 | 1 | 30 | u |
| Styrene | 10.00 | 8.964 | 8.964 | 90 | 8.945 | 8.945 | 89 | 70-130 | 0 | 30 | u |
| Bromoform | 10.00 | 9.457 | 9.457 | 95 | 9.386 | 9.386 | 94 | 70-130 | 1 | 30 | u |
| 1,1,2,2-Tetrachloroethane | 10.00 | 9.358 | 9.358 | 94 | 9.328 | 9.328 | 93 | 70-130 | 0 | 30 | u |
| 1,1,1,2-Tetrachloroethane | 10.00 | 9.547 | 9.547 | 95 | 9.522 | 9.522 | 95 | 70-130 | 0 | 30 | u |
| 4-Ethyltoluene | 10.00 | 9.354 | 9.354 | 94 | 9.342 | 9.342 | 93 | 70-130 | 0 | 30 | u |
| 1,3,5-Trimethylbenzene | 10.00 | 9.378 | 9.378 | 94 | 9.406 | 9.406 | 94 | 70-130 | 0 | 30 | u |
| 1,2,4-Trimethylbenzene | 10.00 | 9.404 | 9.404 | 94 | 9.390 | 9.390 | 94 | 70-130 | 0 | 30 | u |
| 1,3-Dichlorobenzene | 10.00 | 9.196 | 9.196 | 92 | 9.156 | 9.156 | 92 | 70-130 | 0 | 30 | u |
| 1,4-Dichlorobenzene | 10.00 | 9.137 | 9.137 | 91 | 9.150 | 9.150 | 91 | 70-130 | 0 | 30 | u |
| Benzyl chloride | 10.00 | 9.944 | 9.944 | 99 | 9.877 | 9.877 | 99 | 70-130 | 1 | 30 | u |
| 1,2-Dichlorobenzene | 10.00 | 9.051 | 9.051 | 91 | 9.050 | 9.050 | 91 | 70-130 | 0 | 30 | u |
| 1,2,4-Trichlorobenzene | 10.00 | 9.399 | 9.399 | 94 | 9.482 | 9.482 | 95 | 70-130 | 1 | 30 | u |
| Hexachlorobutadiene | 10.00 | 9.155 | 9.155 | 92 | 9.093 | 9.093 | 91 | 70-130 | 1 | 30 | u |
| | | | | | | | | | | | |
| Bromofluorobenzene | 10.00 | 10.03 | 10.03 | 100 | 10.06 | 10.06 | 101 | 60-140 | | | u |

| ISTD (ICAL air06_010522009) | ICAL Area | CCV/BS Area | %Drift | ICAL RT | CCV/BS RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 372319 | -9.45 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1532470 | -1.23 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 804246 | -5.08 | 14.01 | 14.01 | 0.00 |

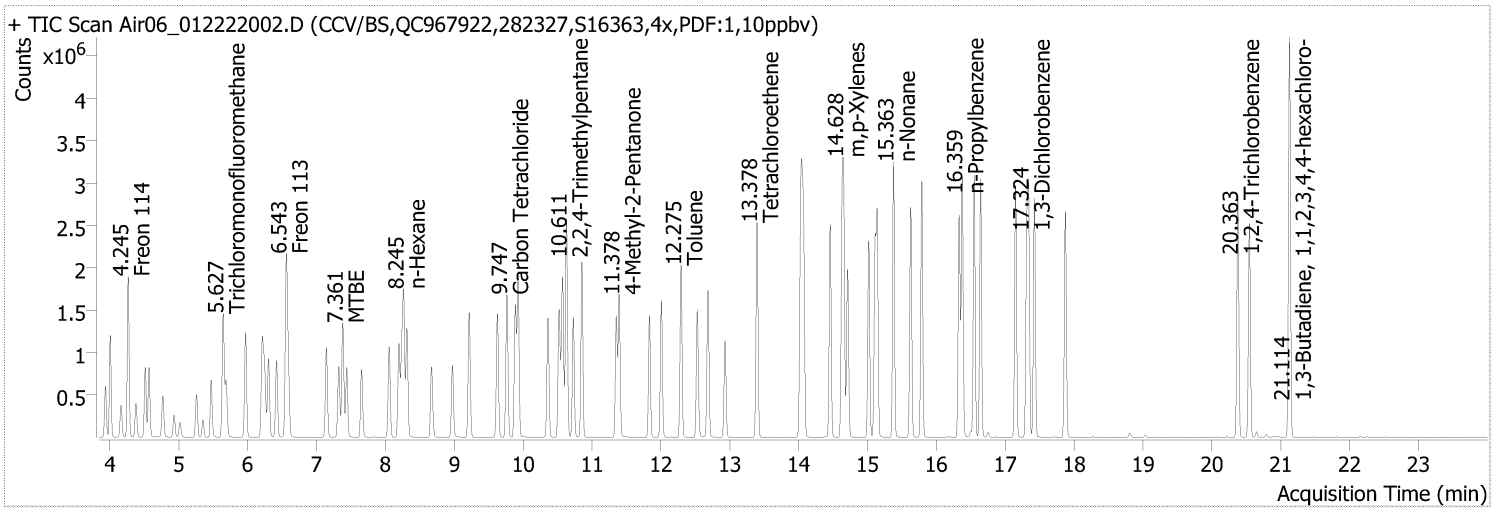
| ISTD (ICAL air06_010522009) | ICAL Area | BSD Area | %Drift | ICAL RT | BSD RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 378637 | -7.92 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1547443 | -0.27 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 813621 | -3.97 | 14.01 | 14.01 | 0.00 |

Analyst: DJL Date: 01/26/22 Reviewer: LW Date: 01/27/22

u=use

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012222002.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/22/2022 11:18:31 AM |
| Sample Name | CCV/BS,QC967922,282327,S16363,4x,PDF:1,10ppbv | Instrument | Air-MS-06 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 22 1015 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



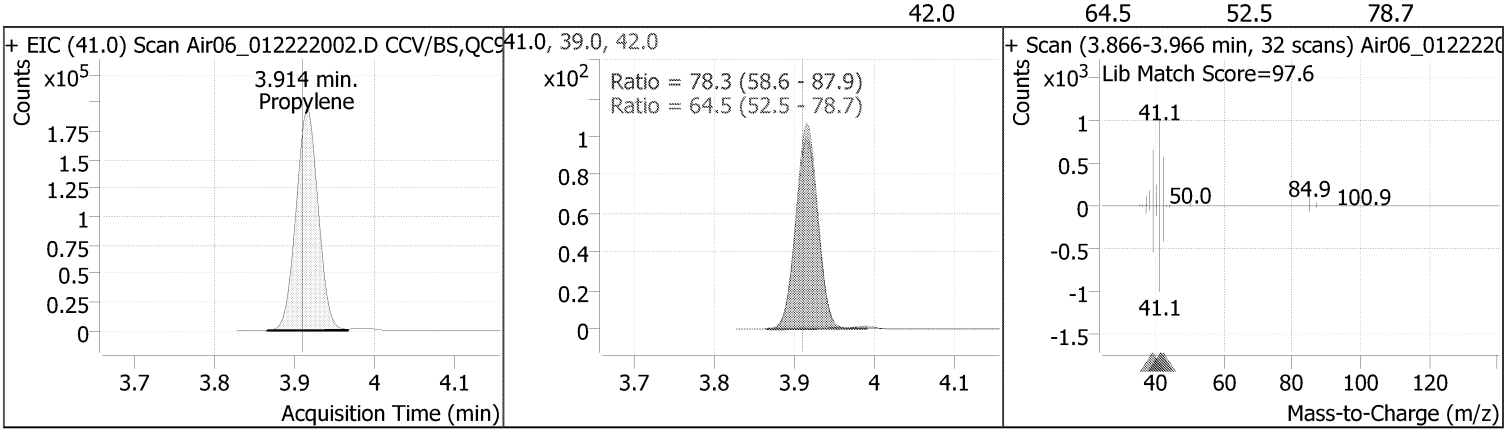

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 372319 | 10.0000 | nL/L | | 0.000 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1532470 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 804246 | 10.0000 | nL/L | | 0.000 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1060781 | 10.0302 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 100.30% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.914 | 41.0 | 375030 | 10.2251 | nL/L | | 96 |
| T Freon 12 | 3.986 | 85.0 | 1088142 | 11.2145 | nL/L | # | 98 |
| T Chloromethane | 4.141 | 50.0 | 459979 | 10.0888 | nL/L | | 99 |
| T Freon 114 | 4.245 | 135.0 | 702699 | 10.2654 | nL/L | | 100 |
| T Vinyl Chloride | 4.358 | 62.0 | 457049 | 10.0221 | nL/L | | 99 |
| T 1,3-Butadiene | 4.494 | 54.0 | 401960 | 10.2920 | nL/L | | 96 |
| T Butane | 4.549 | 43.0 | 805473 | 10.6258 | nL/L | | 99 |
| T Bromomethane | 4.749 | 96.0 | 344554 | 10.2617 | nL/L | | 99 |
| T Chloroethane | 4.911 | 64.0 | 227514 | 10.1204 | nL/L | | 97 |
| T Ethanol | 4.995 | 45.0 | 214930 | 9.5727 | nL/L | | 98 |
| T Vinyl bromide | 5.238 | 108.0 | 375805 | 9.5378 | nL/L | | 98 |
| T Acrolein | 5.332 | 56.0 | 182991 | 9.2387 | nL/L | # | 98 |
| T Acetone | 5.452 | 58.0 | 228363 | 9.7589 | nL/L | # | 81 |
| T Trichloromonofluoromethane | 5.627 | 101.0 | 1267448 | 11.0826 | nL/L | | 100 |
| T Isopropanol (IPA) | 5.669 | 45.0 | 892923 | 10.6556 | nL/L | | 96 |
| T n-Pentane | 5.950 | 43.0 | 903591 | 9.6467 | nL/L | | 98 |
| T 1,1-Dichloroethene | 6.193 | 61.0 | 885997 | 10.4062 | nL/L | | 97 |
| T Tert-butyl alcohol (TBA) | 6.225 | 59.0 | 1004026 | 10.3536 | nL/L | | 94 |
| T Methylene Chloride | 6.284 | 84.0 | 377773 | 9.1701 | nL/L | | 98 |
| T 3-Chloropropene | 6.400 | 76.0 | 180428 | 9.5008 | nL/L | | 100 |
| T Freon 113 | 6.543 | 101.0 | 916934 | 9.9764 | nL/L | | 98 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T Carbon Disulfide | 6.572 | 76.0 | 1137487 | 9.5534 | nL/L | # | 94 |
| T trans-1,2-Dichloroethene | 7.125 | 61.0 | 710732 | 9.9672 | nL/L | | 98 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 870358 | 9.9407 | nL/L | | 100 |
| T MTBE | 7.361 | 73.0 | 1206954 | 10.4028 | nL/L | | 97 |
| T Vinyl Acetate | 7.420 | 43.0 | 1329722 | 9.0507 | nL/L | | 100 |
| T 2-Butanone | 7.633 | 43.0 | 1135815 | 10.0353 | nL/L | | 95 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 720584 | 9.9911 | nL/L | | 98 |
| T Ethyl Acetate | 8.219 | 61.0 | 165763 | 9.3284 | nL/L | | 90 |
| T n-Hexane | 8.245 | 57.0 | 768330 | 9.4148 | nL/L | | 94 |
| T Chloroform | 8.294 | 83.0 | 970513 | 10.5463 | nL/L | | 97 |
| T Tetrahydrofuran | 8.653 | 72.0 | 194453 | 9.5796 | nL/L | | 96 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 751775 | 11.1567 | nL/L | | 98 |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 966296 | 10.8557 | nL/L | | 97 |
| T Benzene | 9.608 | 78.0 | 1257620 | 9.4800 | nL/L | | 98 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 1036672 | 10.9165 | nL/L | # | 98 |
| T Cyclohexane | 9.870 | 84.0 | 515511 | 9.3011 | nL/L | | 97 |
| T 1,2-Dichloropropane | 10.342 | 63.0 | 556623 | 8.8676 | nL/L | | 96 |
| T Methane, bromodichloro- | 10.504 | 83.0 | 1006250 | 9.8244 | nL/L | | 98 |
| T 1,4-Dioxane | 10.537 | 88.0 | 281757 | 8.6016 | nL/L | | 98 |
| T Trichloroethene | 10.556 | 132.0 | 555593 | 8.7009 | nL/L | | 99 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 2488269 | 8.7102 | nL/L | | 97 |
| T Methyl methacrylate | 10.711 | 69.0 | 484196 | 9.0870 | nL/L | | 92 |
| T n-Heptane | 10.834 | 71.0 | 437047 | 8.8563 | nL/L | | 98 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 174094 | 8.7368 | nL/L | | 95 |
| T 4-Methyl-2-Pentanone | 11.378 | 58.0 | 475445 | 8.6359 | nL/L | | 94 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 179016 | 8.7623 | nL/L | # | 95 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 537234 | 8.9871 | nL/L | | 98 |
| T Toluene | 12.275 | 91.0 | 1588989 | 8.7480 | nL/L | | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 234593067 | 18.1082 | nL/L | | 100 |
| T 2-Hexanone | 12.511 | 58.0 | 629247 | 8.8988 | nL/L | | 93 |
| T Dibromochloromethane | 12.666 | 129.0 | 1019352 | 9.3932 | nL/L | | 98 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 835561 | 9.0856 | nL/L | | 100 |
| T Tetrachloroethene | 13.378 | 166.0 | 813023 | 8.6576 | nL/L | | 96 |
| T 1,1,1,2-Tetrachloroethane | 14.032 | 131.0 | 662588 | 9.5469 | nL/L | | 98 |
| T Benzene, chloro- | 14.058 | 112.0 | 1236852 | 8.9806 | nL/L | | 98 |
| T Ethylbenzene | 14.443 | 91.0 | 2029477 | 9.2752 | nL/L | | 99 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 178536985 | 18.8678 | nL/L | | 100 |
| T m,p-Xylenes | 14.628 | 91.0 | 3305788 | 18.7858 | nL/L | | 99 |
| T Bromoform | 14.696 | 173.0 | 1139779 | 9.4566 | nL/L | | 98 |
| T Styrene | 15.003 | 104.0 | 1250078 | 8.9642 | nL/L | | 99 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 1244402 | 9.3581 | nL/L | | 100 |
| T o-Xylene | 15.126 | 91.0 | 1698748 | 9.3895 | nL/L | | 99 |
| T n-Nonane | 15.363 | 85.0 | 380043 | 9.0925 | nL/L | | 99 |
| T Isopropylbenzene | 15.774 | 105.0 | 2299738 | 9.2729 | nL/L | | 99 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 564387 | 8.9348 | nL/L | | 97 |
| T n-Propylbenzene | 16.359 | 120.0 | 632006 | 9.1207 | nL/L | | 93 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 2295596 | 9.3535 | nL/L | | 99 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 1992490 | 9.3782 | nL/L | | 99 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 1984491 | 9.4044 | nL/L | | 99 |
| T Benzyl chloride | 17.295 | 91.0 | 1845045 | 9.9439 | nL/L | | 98 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 1330997 | 9.1958 | nL/L | | 98 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 1337268 | 9.1368 | nL/L | | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 1277756 | 9.0512 | nL/L | | 99 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1093346 | 9.3989 | nL/L | | 98 |
| T Naphthalene | 20.532 | 128.0 | 2318678 | 9.6302 | nL/L | | 100 |

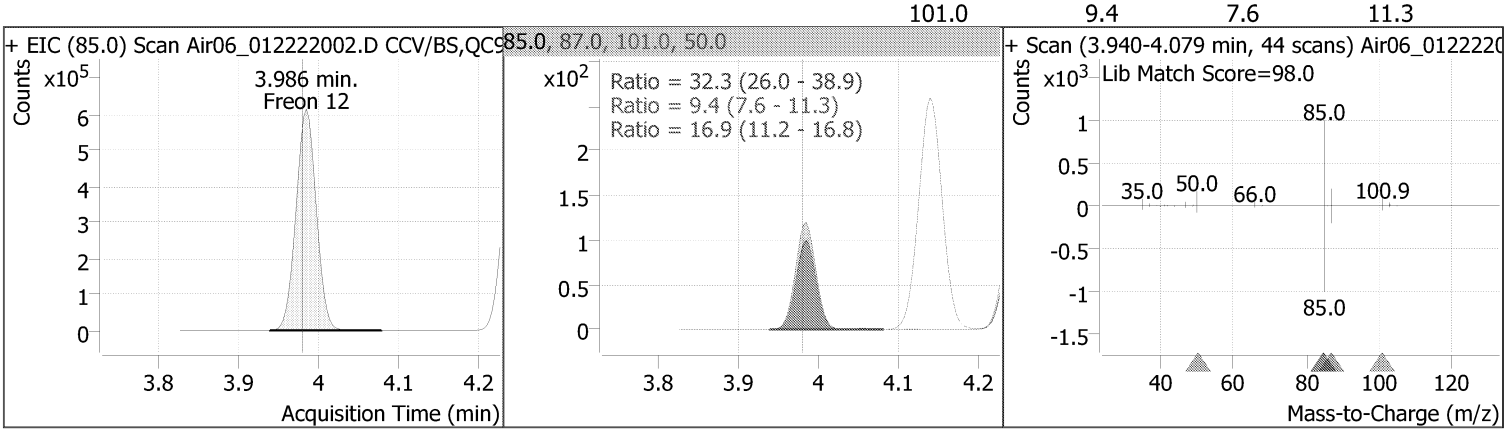
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.114 | 225.0 | 1144378 | 9.1550 | nL/L | 100 |

**(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak**

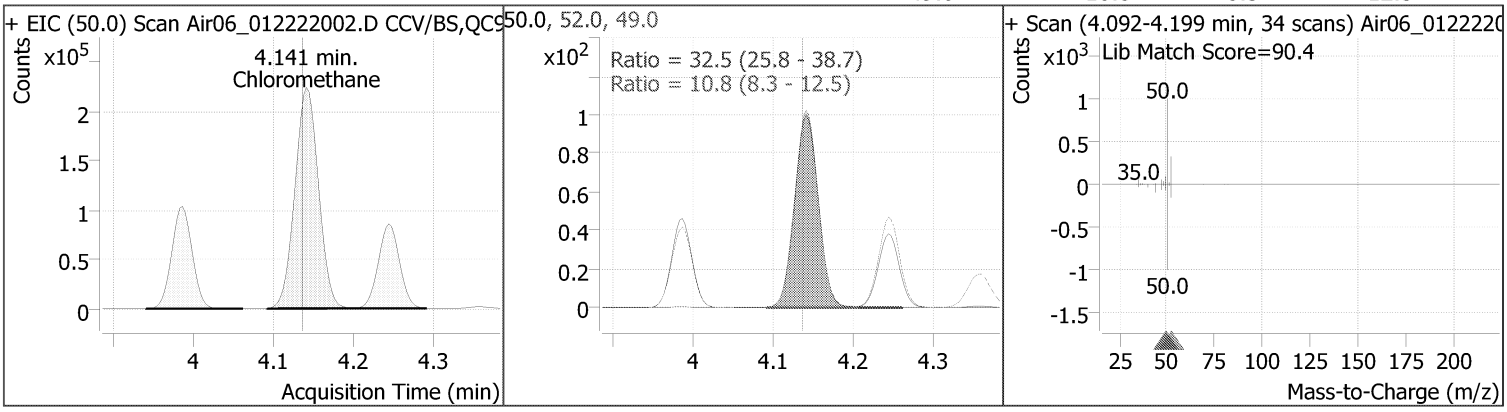
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 10.2251 | 3.91 | 0.01 | 375030 | 39.0 | 78.3 | 58.6 | 87.9 |
| | | | | | 42.0 | 64.5 | 52.5 | 78.7 |



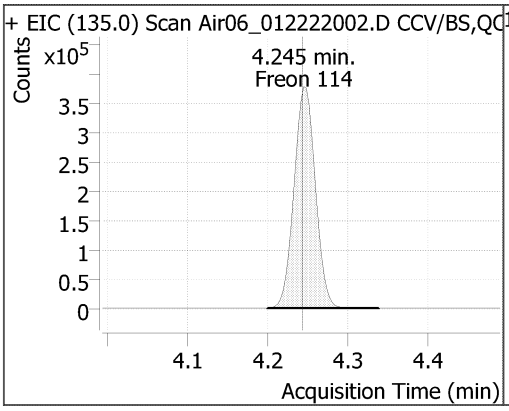

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 11.2145 | 3.99 | 0.01 | 1088142 | 87.0 | 32.3 | 26.0 | 38.9 |
| | | | | | 50.0 | 16.9 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.4 | 7.6 | 11.3 |

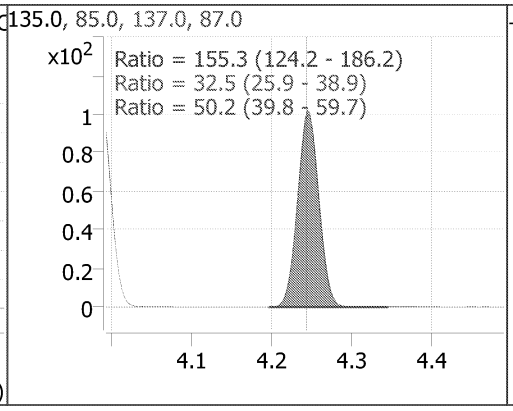


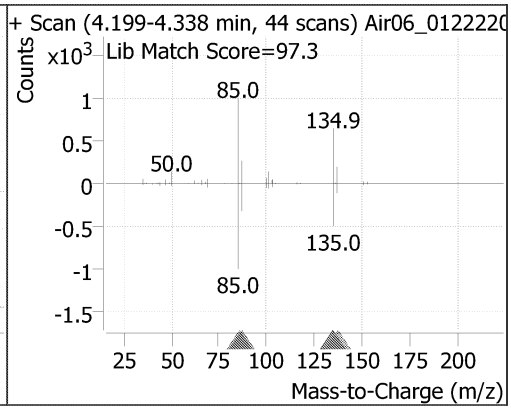

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0888 | 4.14 | 0.01 | 459979 | 52.0 | 32.5 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.8 | 8.3 | 12.5 |



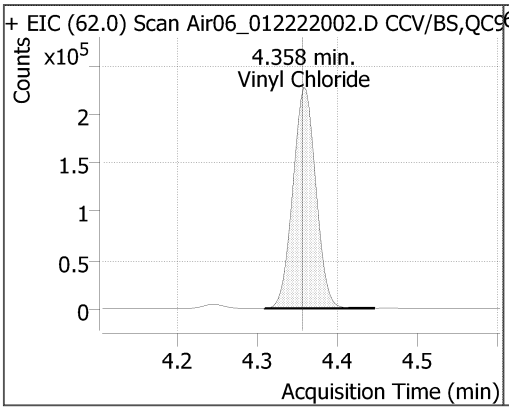
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 10.2654 | 4.24 | 0.00 | 702699 | 85.0 | 155.3 | 124.2 | 186.2 |
| | | | | | 87.0 | 50.2 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.5 | 25.9 | 38.9 |

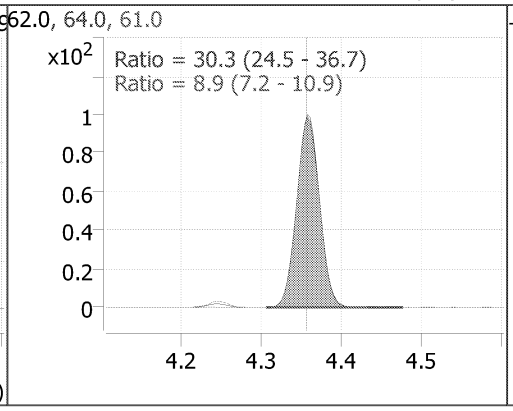


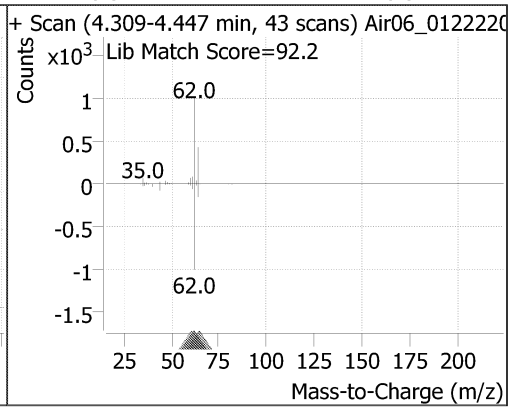



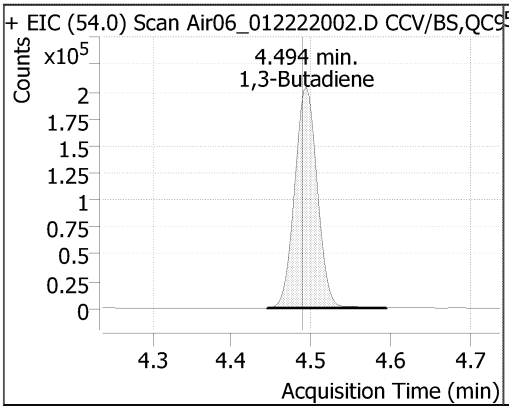

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 10.0221 | 4.36 | 0.00 | 457049 | 64.0 | 30.3 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.9 | 7.2 | 10.9 |

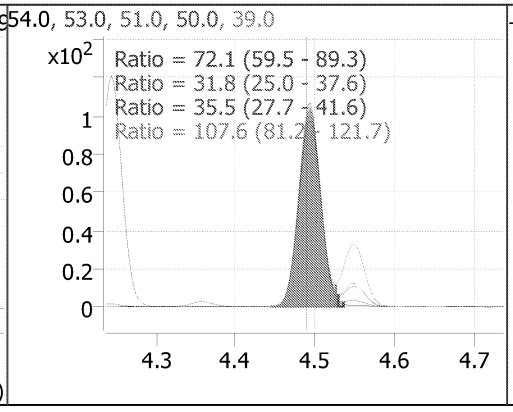


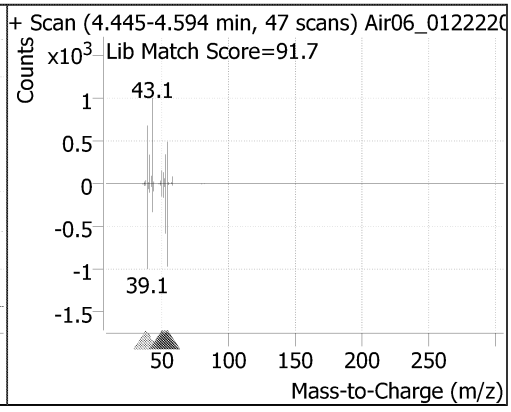



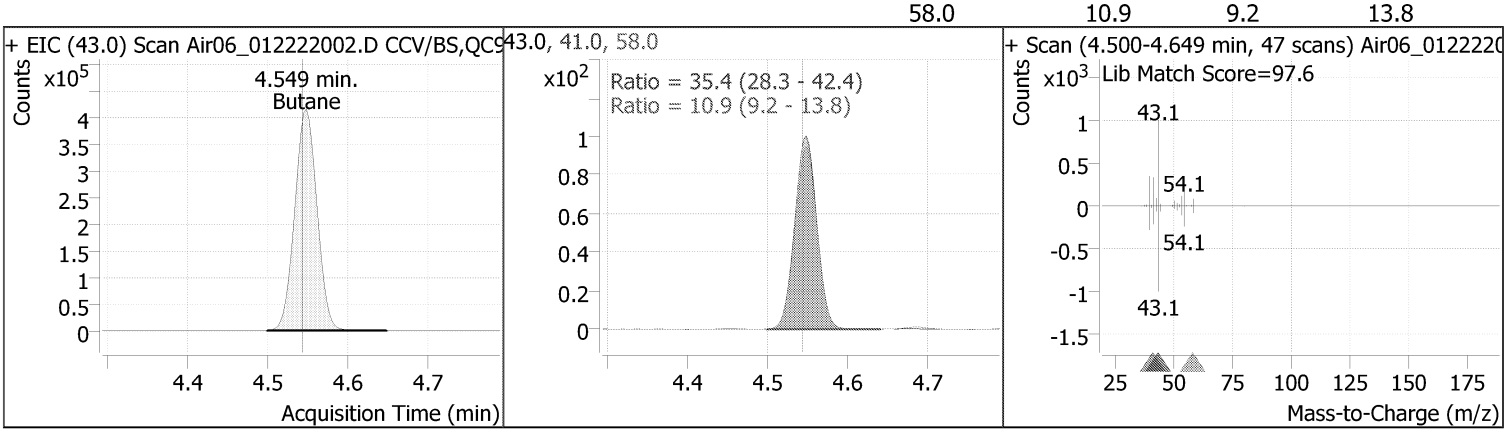

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 10.2920 | 4.49 | 0.01 | 401960 | 39.0 | 107.6 | 81.2 | 121.7 |
| | | | | | 53.0 | 72.1 | 59.5 | 89.3 |
| | | | | | 50.0 | 35.5 | 27.7 | 41.6 |
| | | | | | 51.0 | 31.8 | 25.0 | 37.6 |



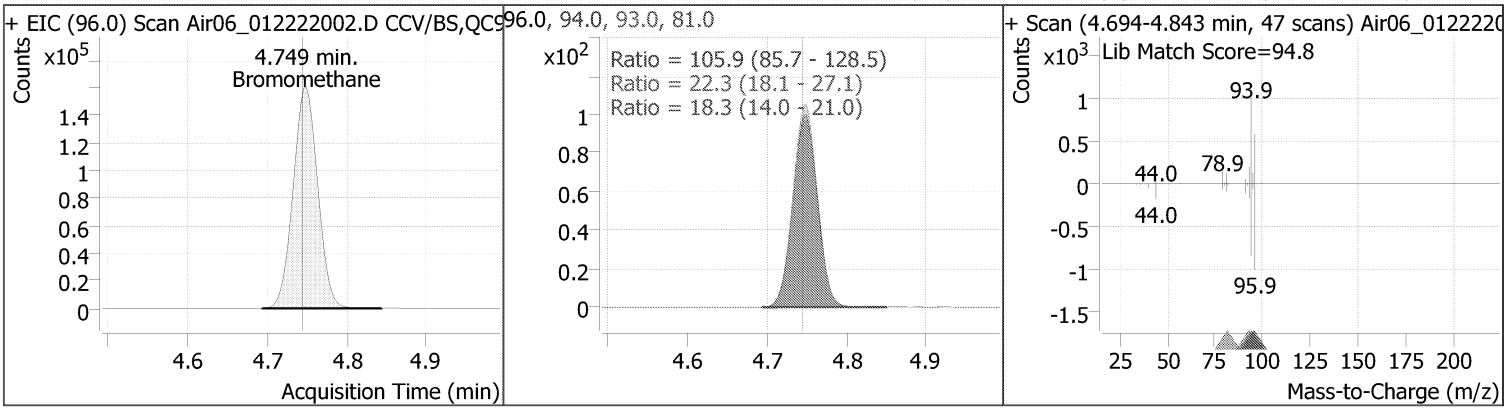



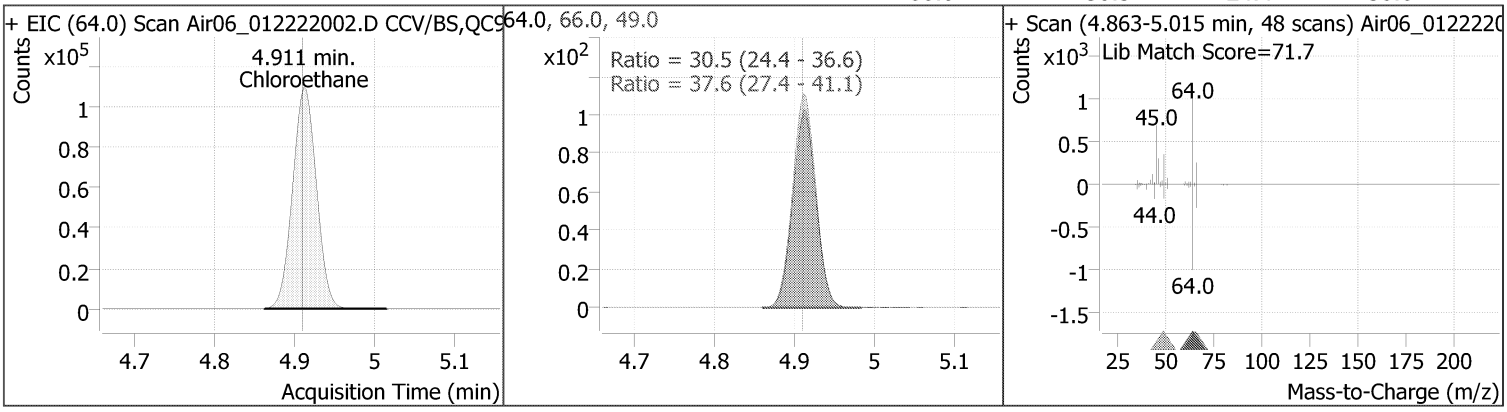
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 10.6258 | 4.55 | 0.01 | 805473 | 41.0 | 35.4 | 28.3 | 42.4 |
| | | | | | 58.0 | 10.9 | 9.2 | 13.8 |



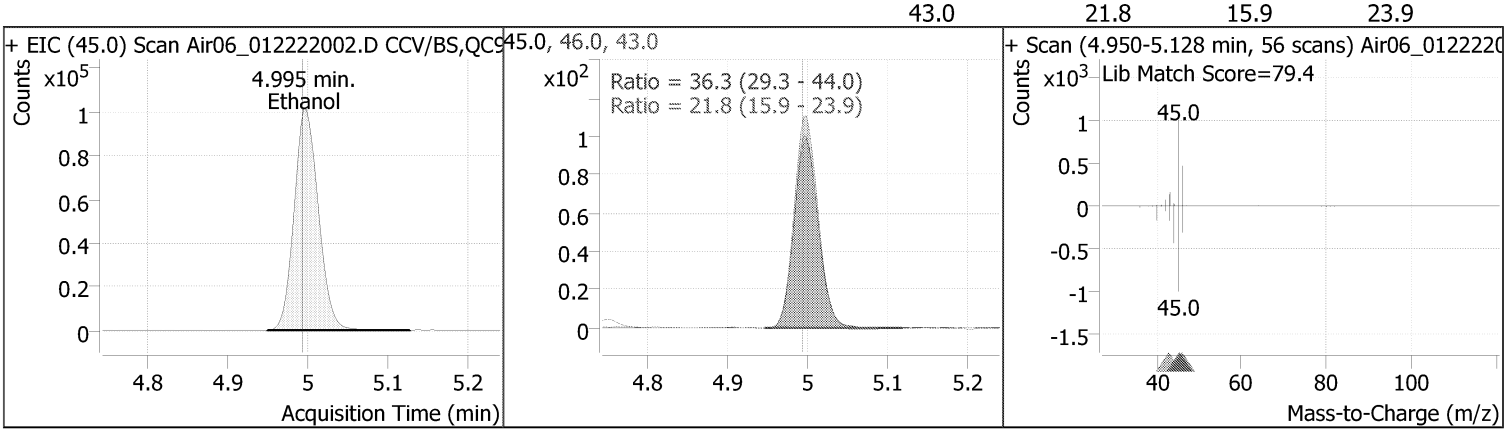

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 10.2617 | 4.75 | 0.01 | 344554 | 94.0 | 105.9 | 85.7 | 128.5 |
| | | | | | 93.0 | 22.3 | 18.1 | 27.1 |
| | | | | | 81.0 | 18.3 | 14.0 | 21.0 |



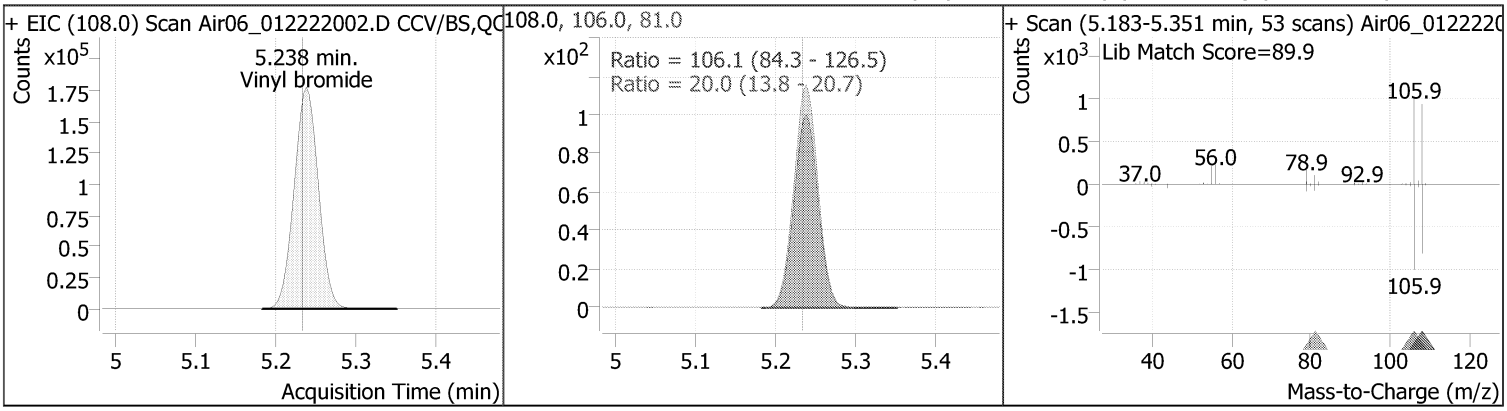

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.1204 | 4.91 | 0.00 | 227514 | 49.0 | 37.6 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.5 | 24.4 | 36.6 |



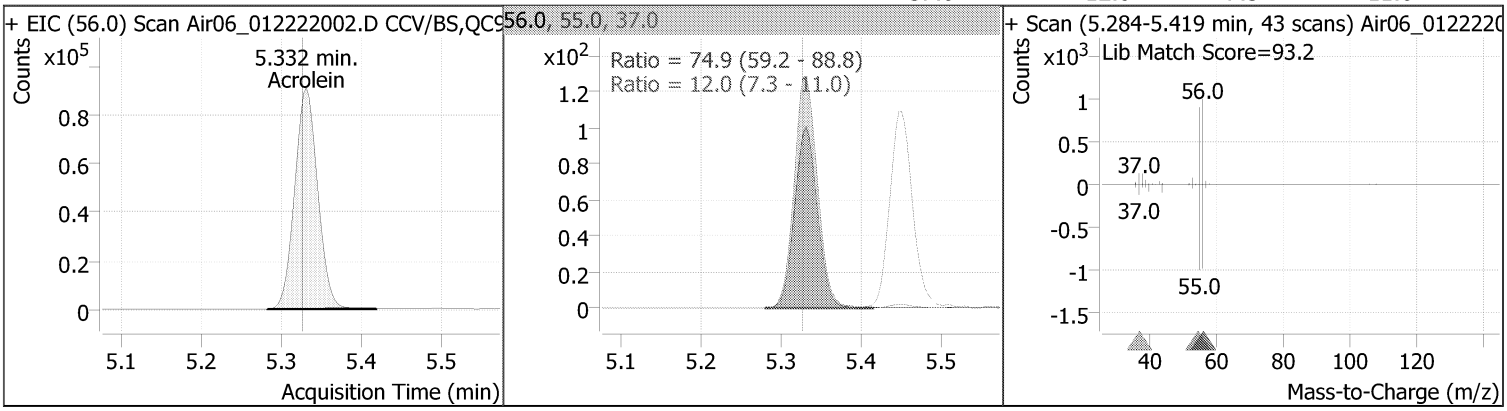
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 9.5727 | 5.00 | 0.00 | 214930 | 46.0 | 36.3 | 29.3 | 44.0 |
| | | | | | 43.0 | 21.8 | 15.9 | 23.9 |



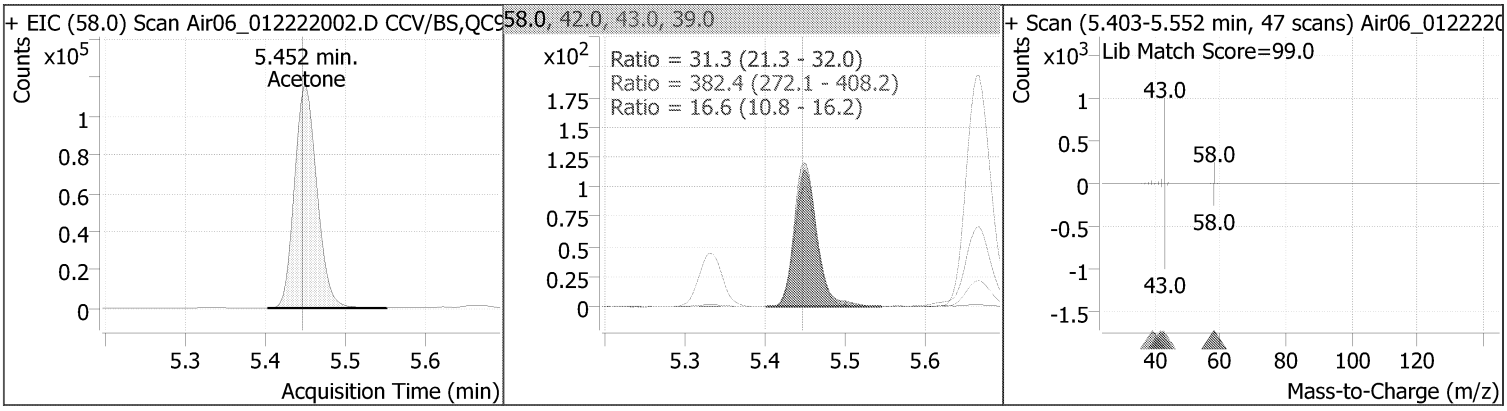

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 9.5378 | 5.24 | 0.01 | 375805 | 106.0 | 106.1 | 84.3 | 126.5 |
| | | | | | 81.0 | 20.0 | 13.8 | 20.7 |



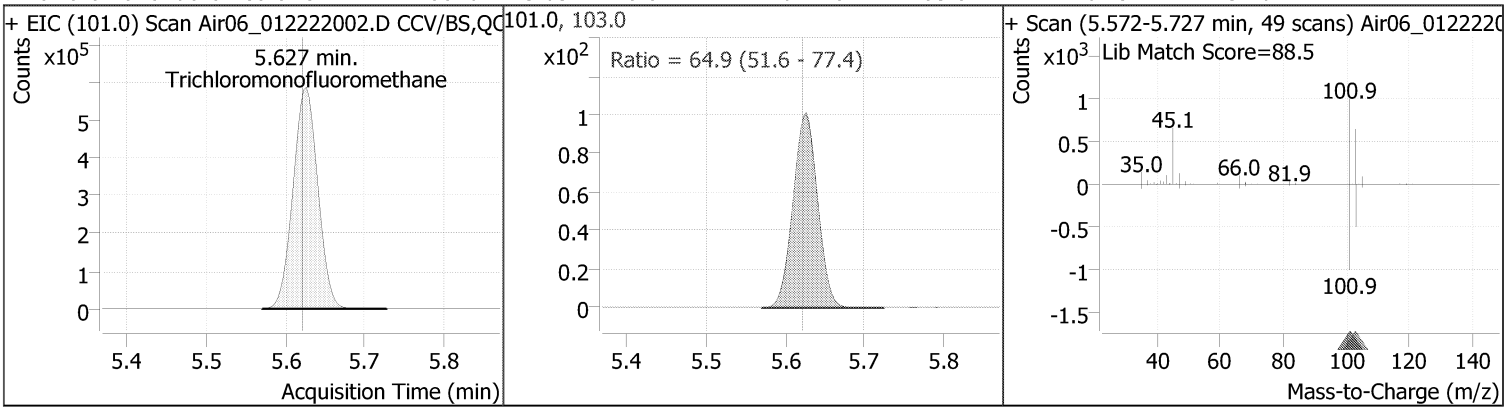

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 9.2387 | 5.33 | 0.01 | 182991 | 55.0 | 74.9 | 59.2 | 88.8 |
| | | | | | 37.0 | 12.0 | 7.3 | 11.0 |



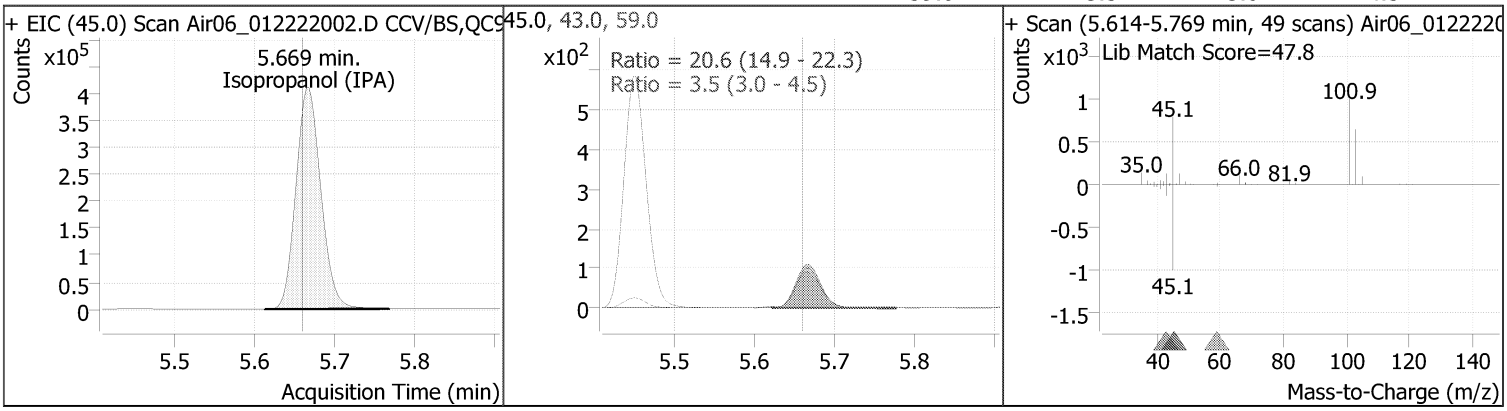
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 9.7589 | 5.45 | 0.01 | 228363 | 43.0 | 382.4 | 272.1 | 408.2 |
| | | | | | 42.0 | 31.3 | 21.3 | 32.0 |
| | | | | | 39.0 | 16.6 | 10.8 | 16.2 |



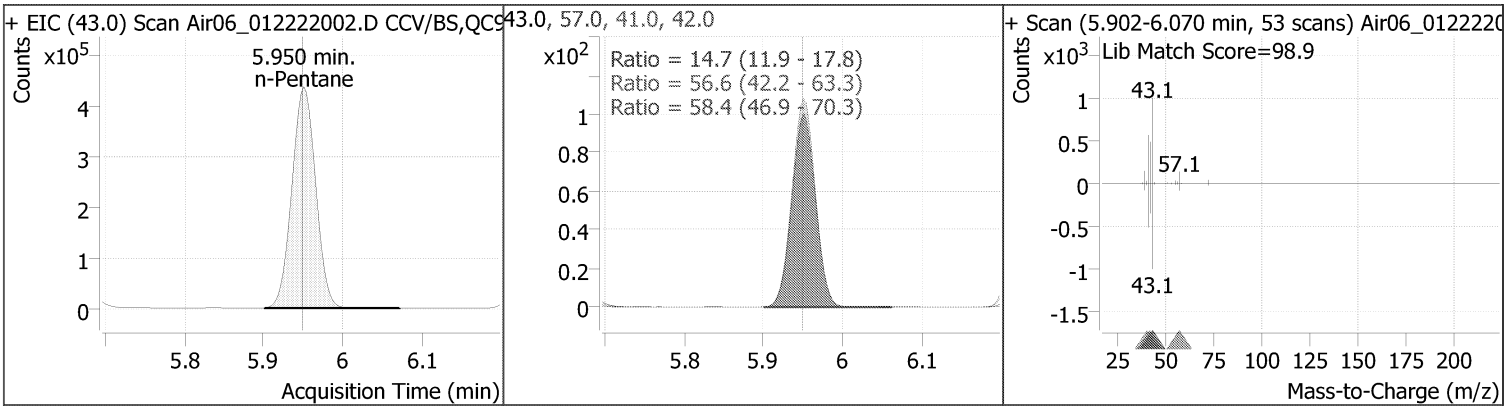

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 11.0826 | 5.63 | 0.01 | 1267448 | 103.0 | 64.9 | 51.6 | 77.4 |



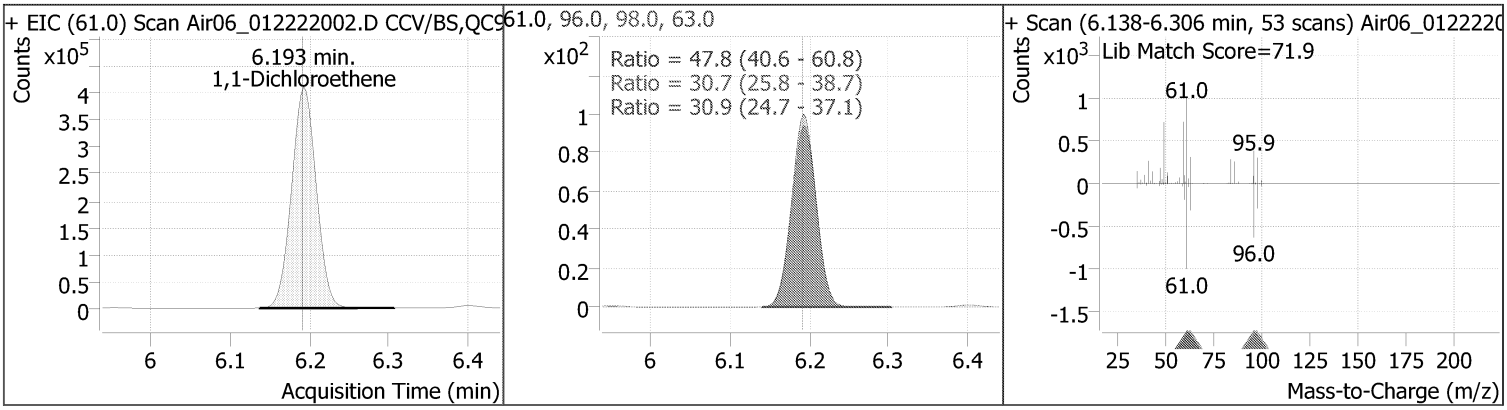

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 10.6556 | 5.67 | 0.01 | 892923 | 43.0 | 20.6 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.5 | 3.0 | 4.5 |



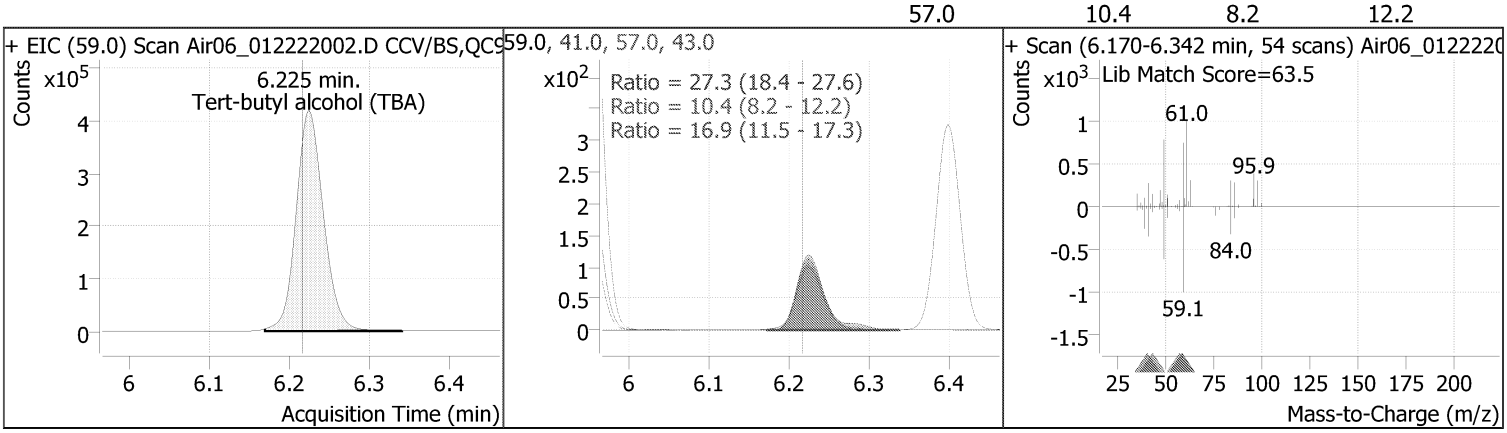
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 9.6467 | 5.95 | 0.00 | 903591 | 42.0 | 58.4 | 46.9 | 70.3 |
| | | | | | 41.0 | 56.6 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.7 | 11.9 | 17.8 |



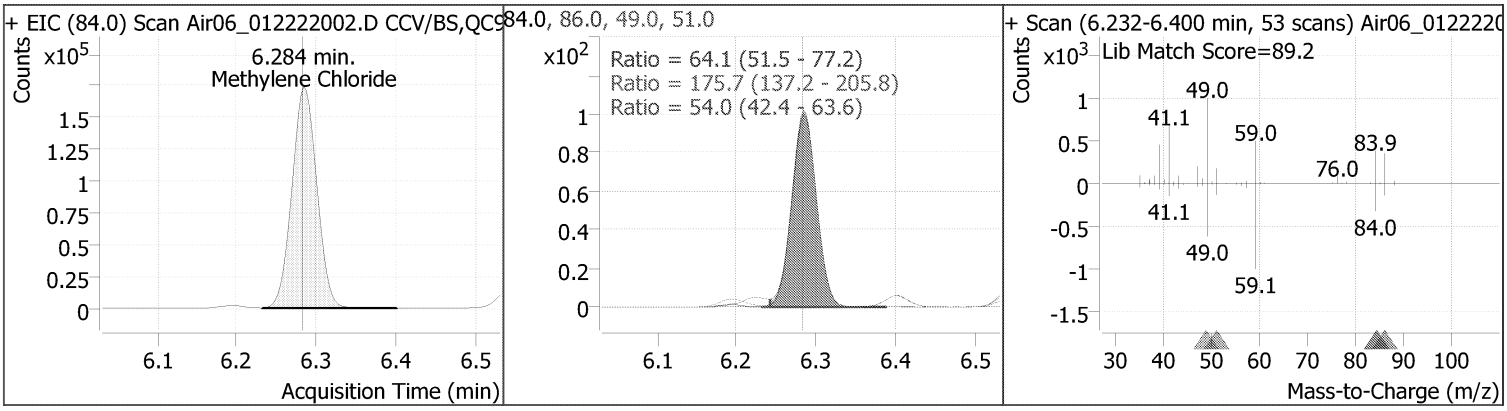

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 10.4062 | 6.19 | 0.00 | 885997 | 96.0 | 47.8 | 40.6 | 60.8 |
| | | | | | 98.0 | 30.7 | 25.8 | 38.7 |
| | | | | | 63.0 | 30.9 | 24.7 | 37.1 |



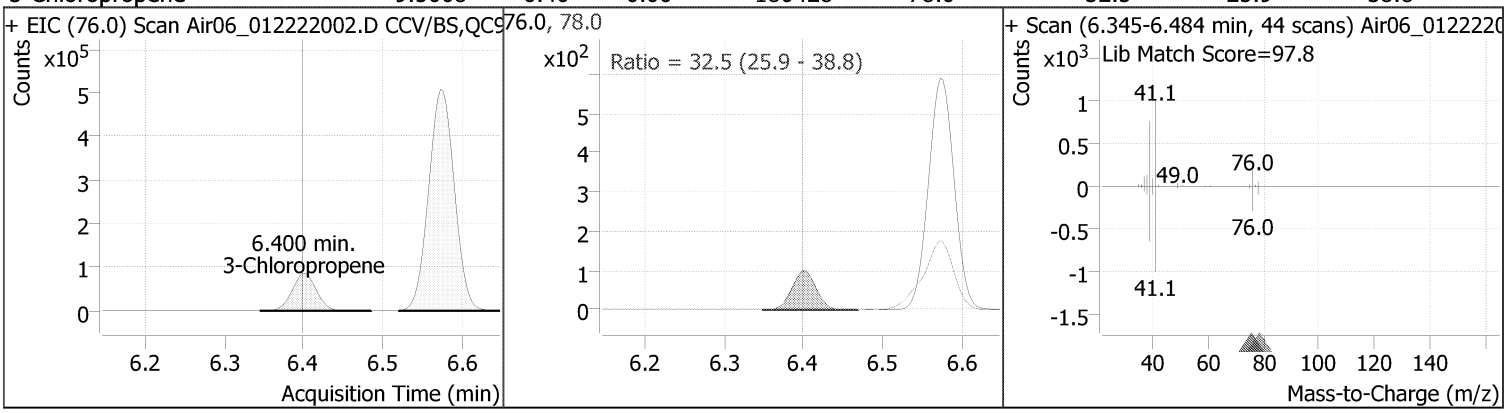

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 10.3536 | 6.23 | 0.01 | 1004026 | 41.0 | 27.3 | 18.4 | 27.6 |
| | | | | | 43.0 | 16.9 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.4 | 8.2 | 12.2 |



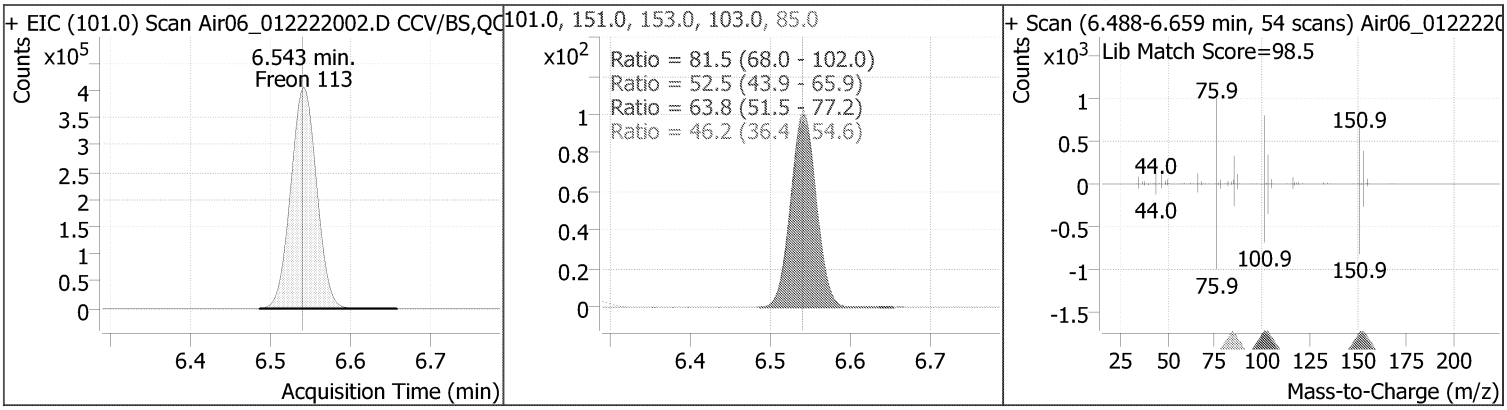
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 9.1701 | 6.28 | 0.00 | 377773 | 49.0 | 175.7 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.1 | 51.5 | 77.2 |
| | | | | | 51.0 | 54.0 | 42.4 | 63.6 |



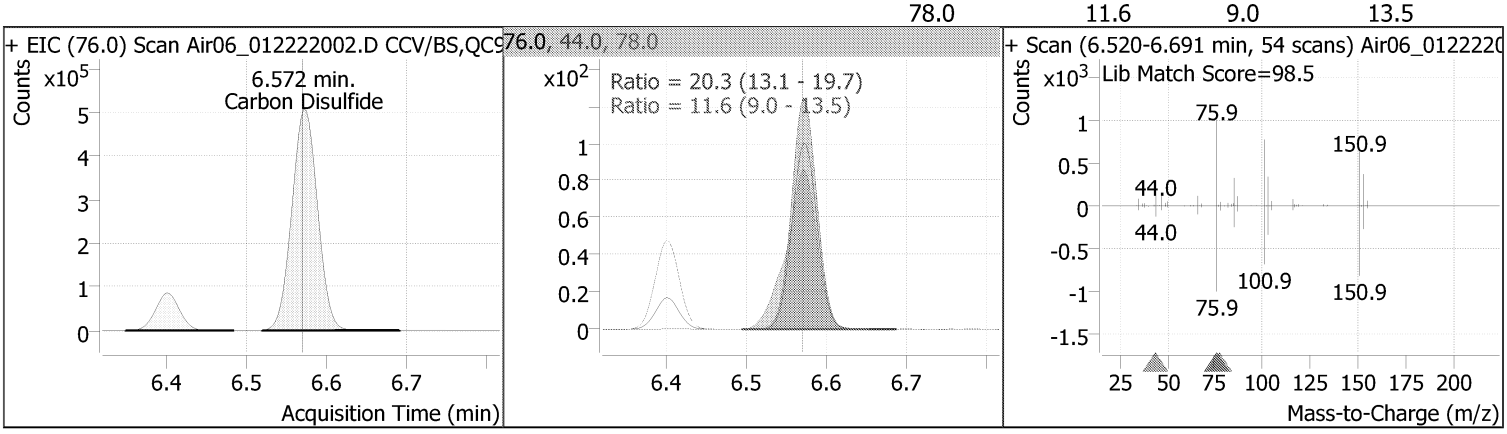

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 9.5008 | 6.40 | 0.00 | 180428 | 78.0 | 32.5 | 25.9 | 38.8 |



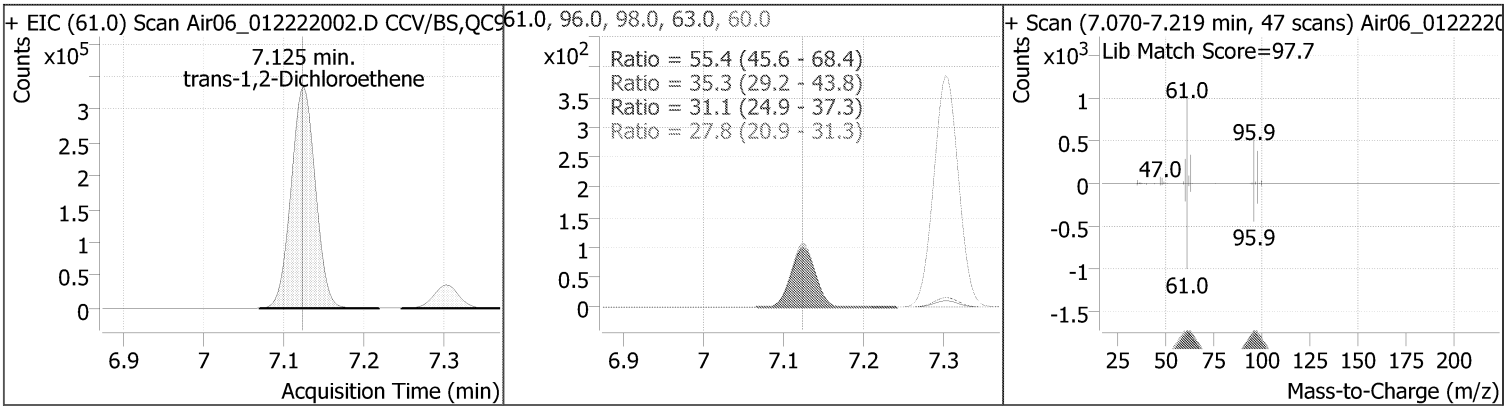

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 9.9764 | 6.54 | 0.00 | 916934 | 151.0 | 81.5 | 68.0 | 102.0 |
| | | | | | 103.0 | 63.8 | 51.5 | 77.2 |
| | | | | | 153.0 | 52.5 | 43.9 | 65.9 |
| | | | | | 85.0 | 46.2 | 36.4 | 54.6 |



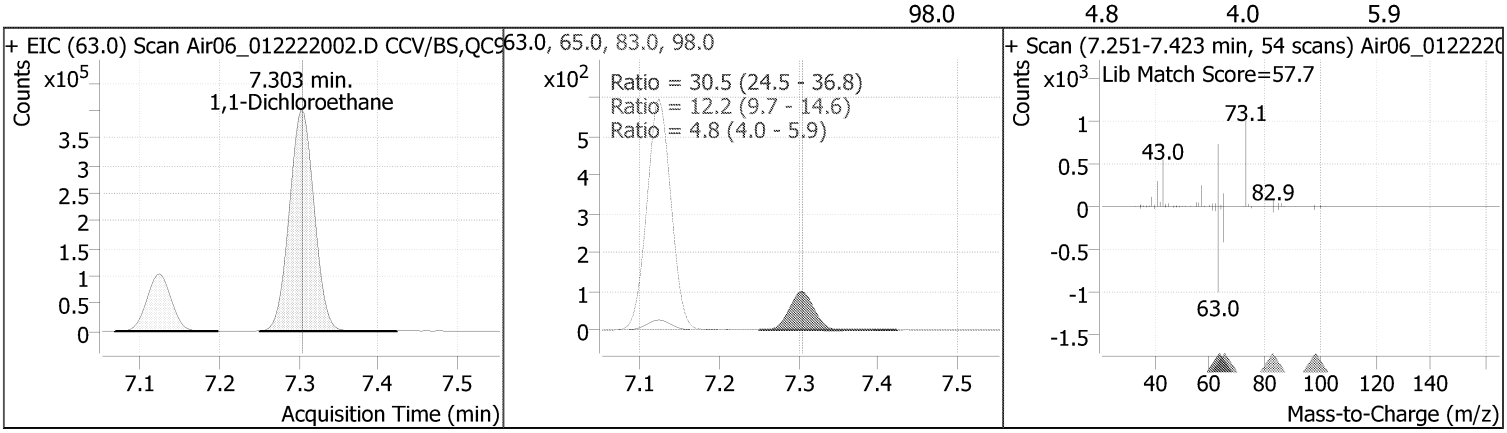
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 9.5534 | 6.57 | 0.00 | 1137487 | 44.0 | 20.3 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.6 | 9.0 | 13.5 |



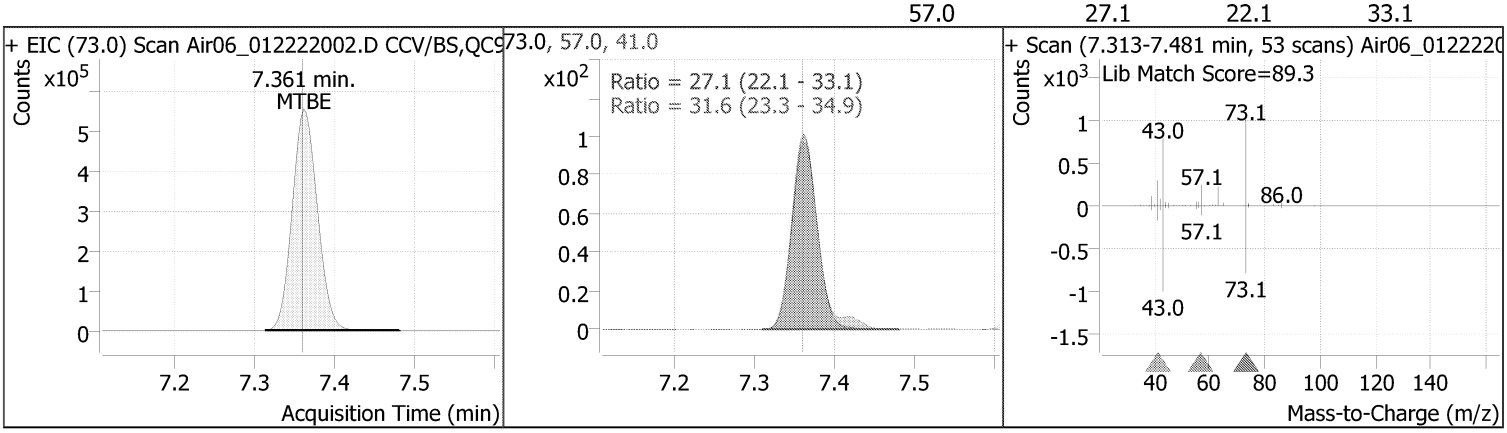

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 9.9672 | 7.13 | 0.00 | 710732 | 96.0 | 55.4 | 45.6 | 68.4 |
| | | | | | 98.0 | 35.3 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.1 | 24.9 | 37.3 |
| | | | | | 60.0 | 27.8 | 20.9 | 31.3 |



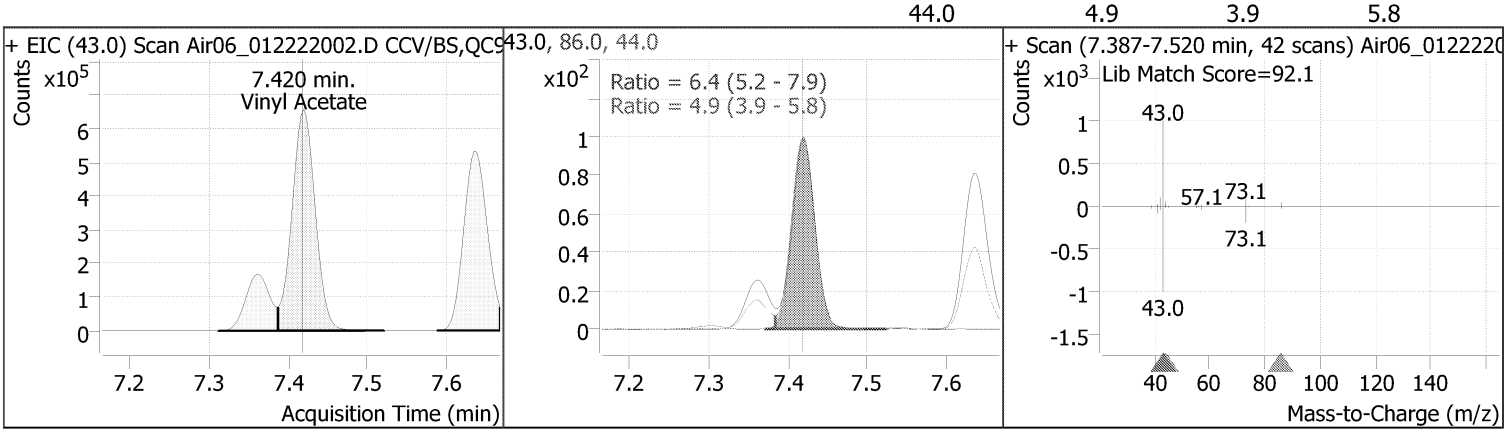

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 9.9407 | 7.30 | 0.00 | 870358 | 65.0 | 30.5 | 24.5 | 36.8 |
| | | | | | 83.0 | 12.2 | 9.7 | 14.6 |
| | | | | | 98.0 | 4.8 | 4.0 | 5.9 |



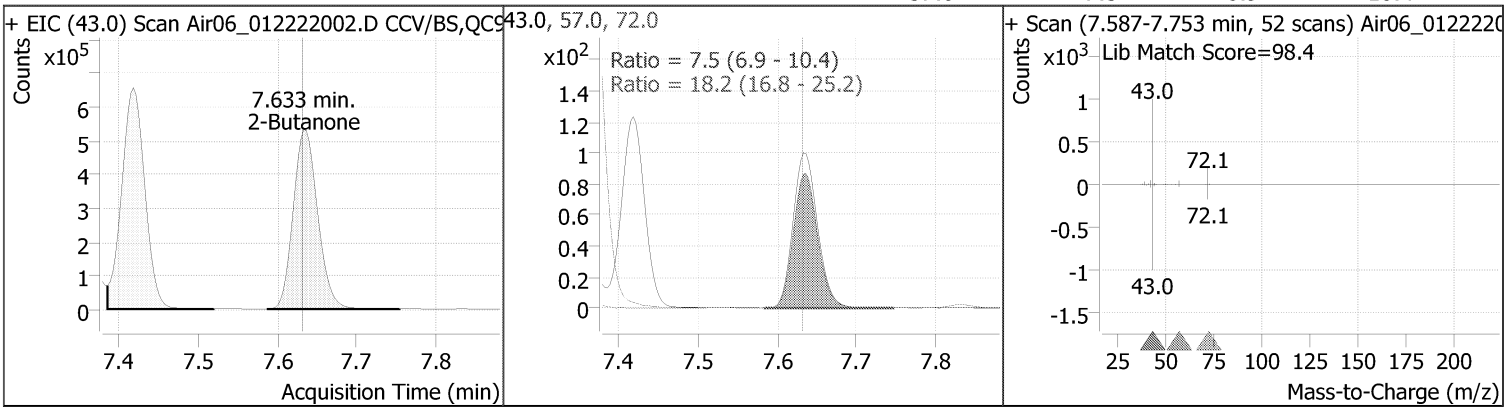
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 10.4028 | 7.36 | 0.00 | 1206954 | 41.0 | 31.6 | 23.3 | 34.9 |
| | | | | | 57.0 | 27.1 | 22.1 | 33.1 |



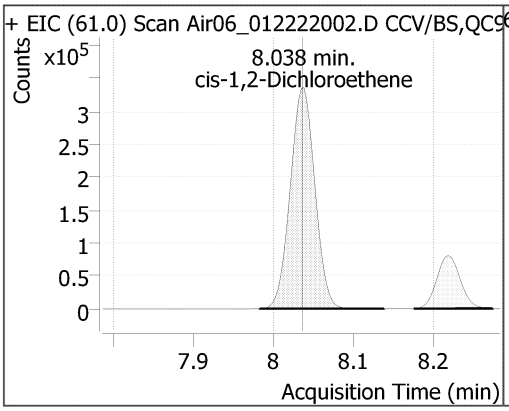

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 9.0507 | 7.42 | 0.00 | 1329722 | 86.0 | 6.4 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.9 | 3.9 | 5.8 |

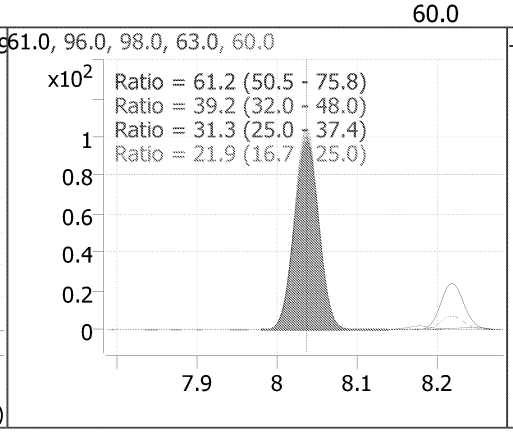


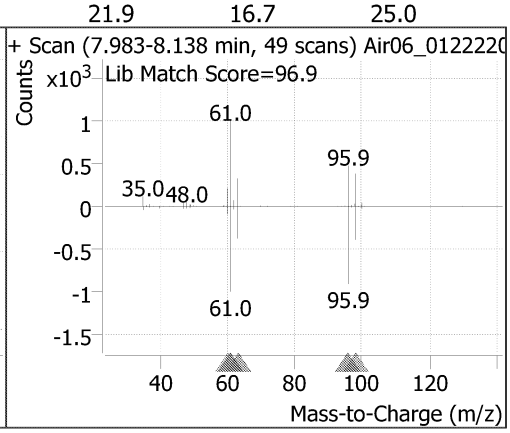

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 10.0353 | 7.63 | 0.00 | 1135815 | 72.0 | 18.2 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.5 | 6.9 | 10.4 |



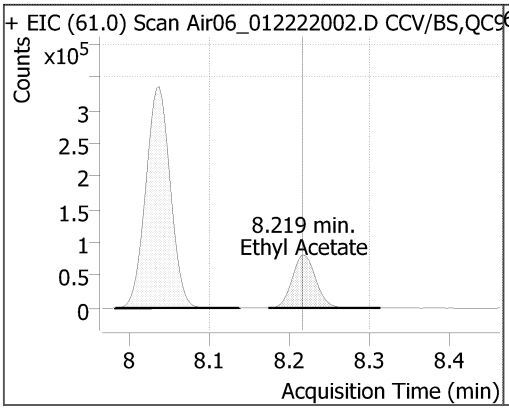
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 9.9911 | 8.04 | 0.00 | 720584 | 96.0 | 61.2 | 50.5 | 75.8 |
| | | | | | 98.0 | 39.2 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.3 | 25.0 | 37.4 |
| | | | | | 60.0 | 21.9 | 16.7 | 25.0 |

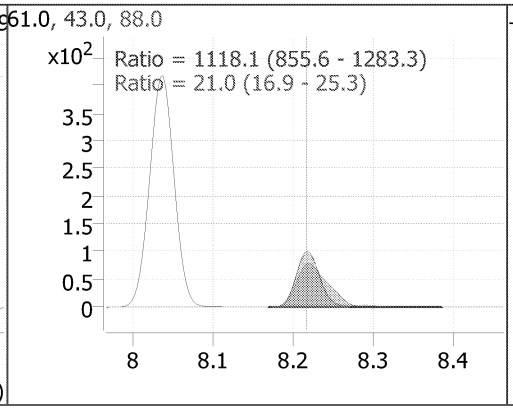


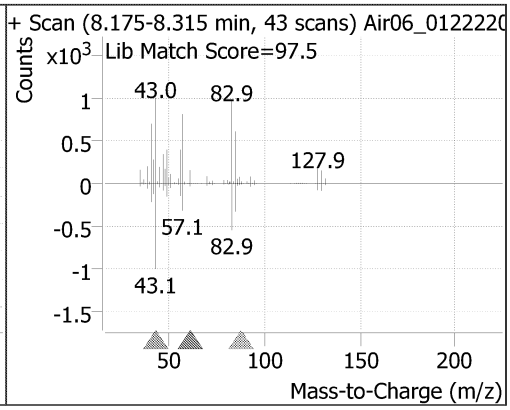



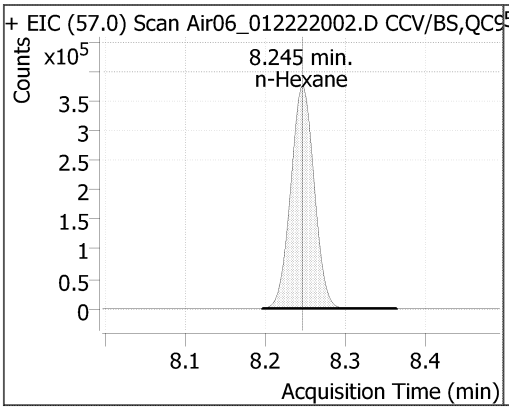

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 9.3284 | 8.22 | 0.00 | 165763 | 43.0 | 1118.1 | 855.6 | 1283.3 |
| | | | | | 88.0 | 21.0 | 16.9 | 25.3 |

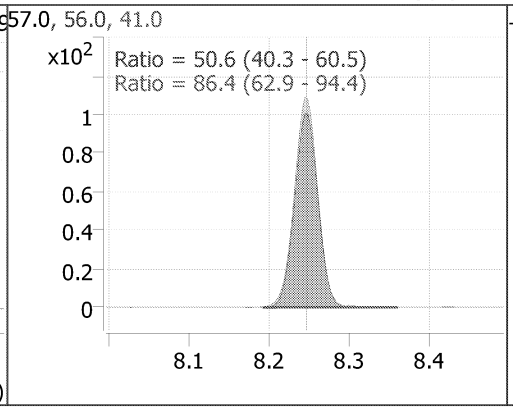


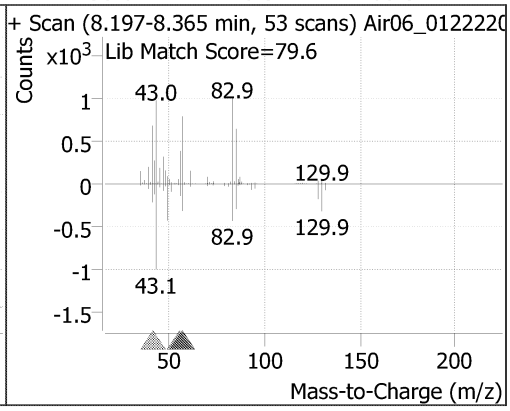



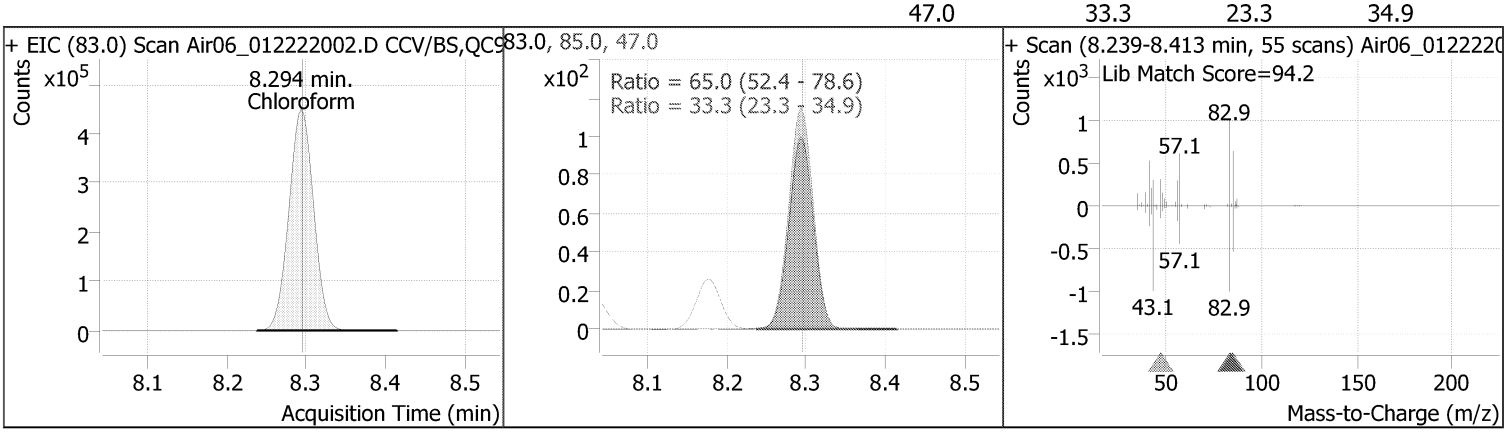

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 9.4148 | 8.25 | 0.00 | 768330 | 41.0 | 86.4 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.6 | 40.3 | 60.5 |



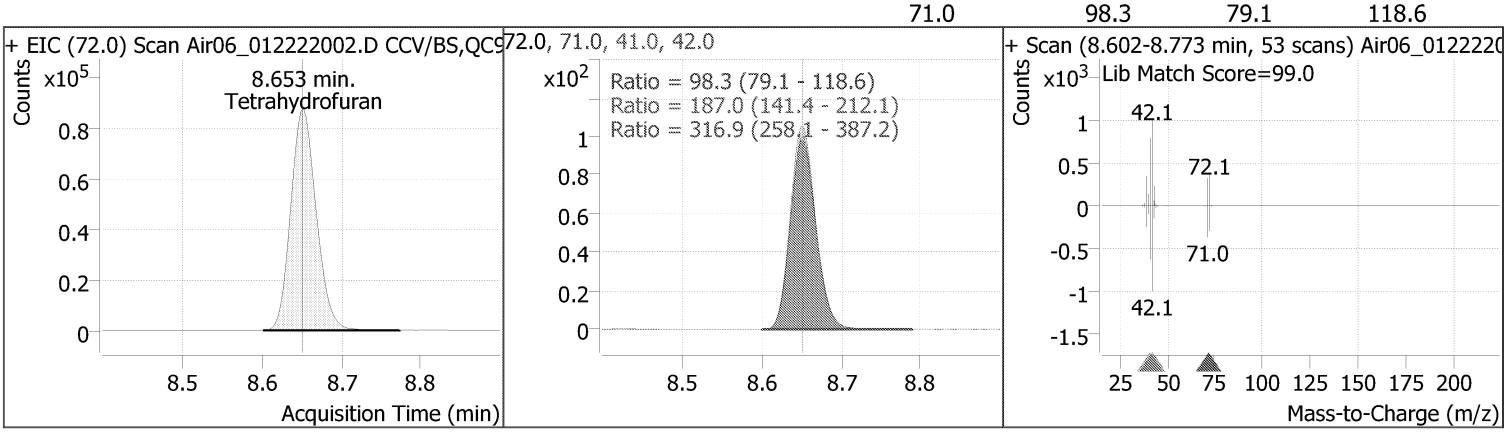



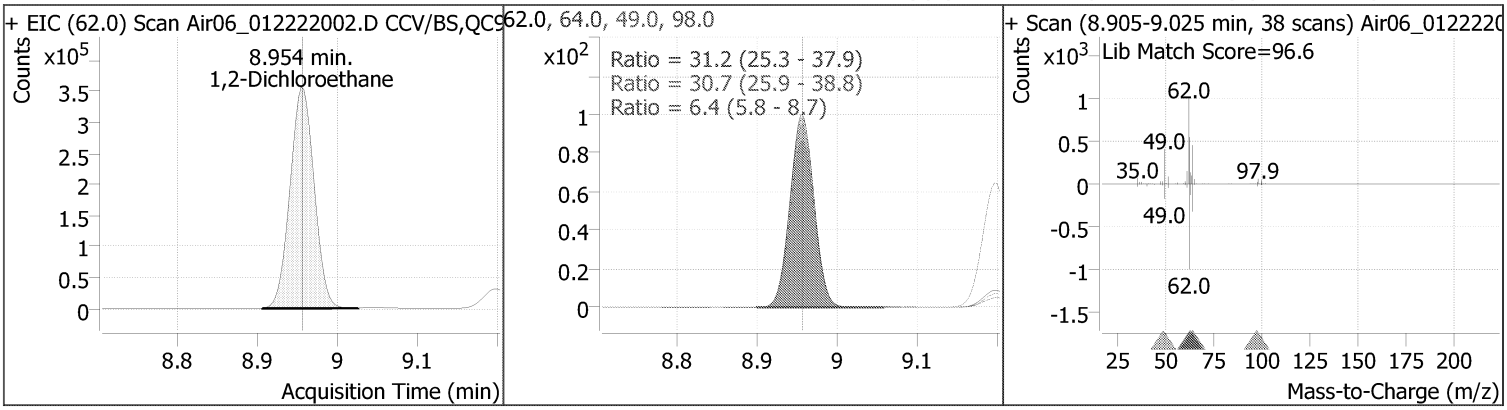
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 10.5463 | 8.29 | 0.00 | 970513 | 85.0 | 65.0 | 52.4 | 78.6 |
| | | | | | 47.0 | 33.3 | 23.3 | 34.9 |



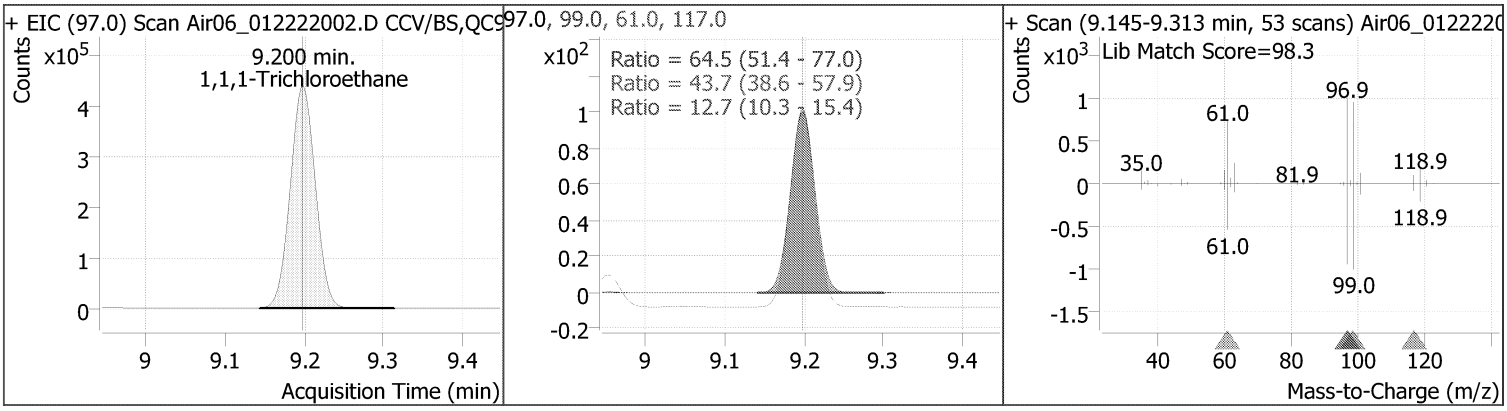

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 9.5796 | 8.65 | 0.00 | 194453 | 42.0 | 316.9 | 258.1 | 387.2 |
| | | | | | 41.0 | 187.0 | 141.4 | 212.1 |
| | | | | | 71.0 | 98.3 | 79.1 | 118.6 |



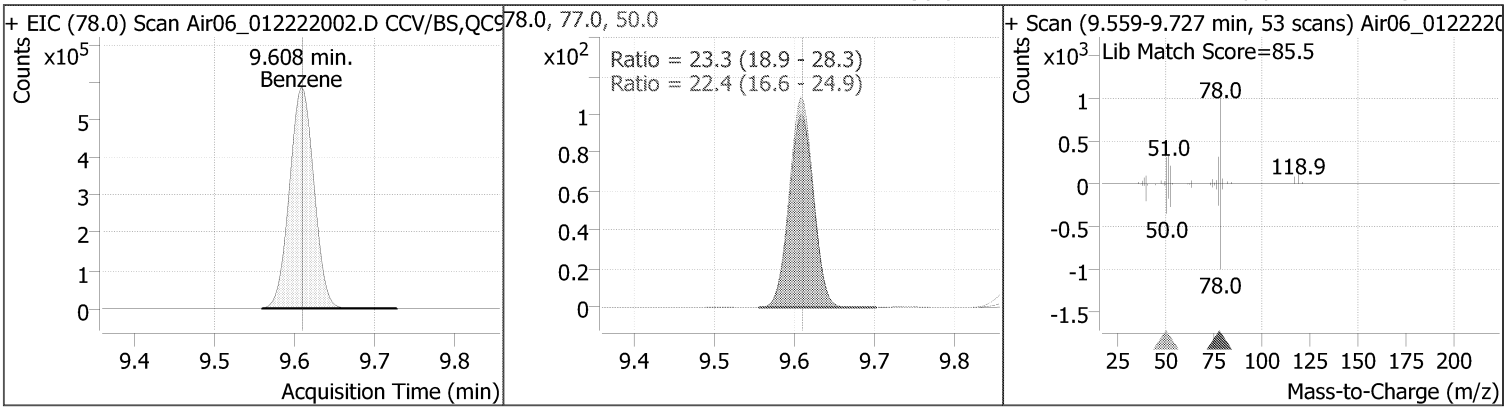

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 11.1567 | 8.95 | 0.00 | 751775 | 49.0 | 30.7 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.2 | 25.3 | 37.9 |
| | | | | | 98.0 | 6.4 | 5.8 | 8.7 |



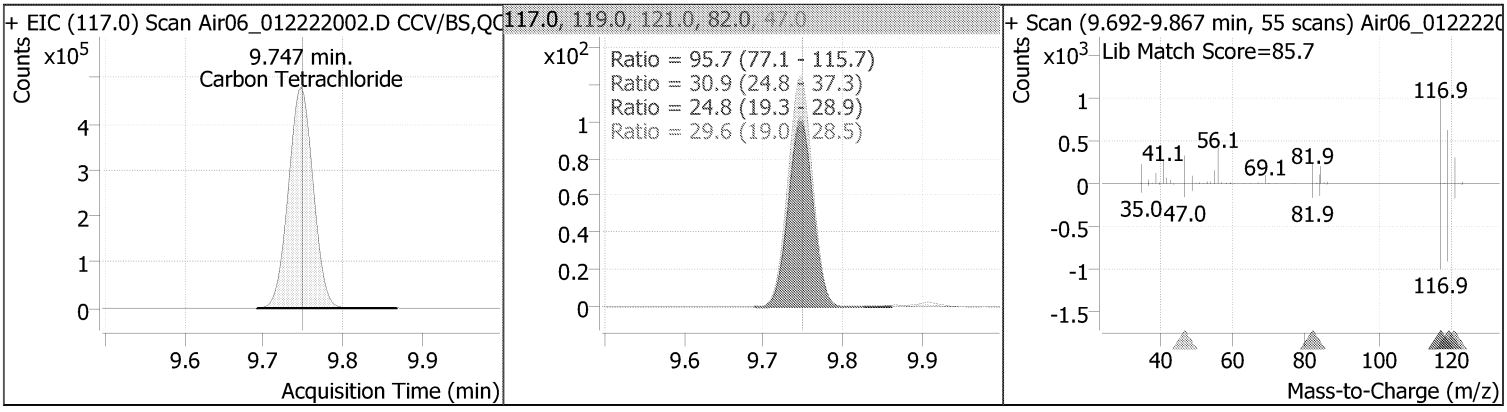
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 10.8557 | 9.20 | 0.00 | 966296 | 99.0 | 64.5 | 51.4 | 77.0 |
| | | | | | 61.0 | 43.7 | 38.6 | 57.9 |
| | | | | | 117.0 | 12.7 | 10.3 | 15.4 |



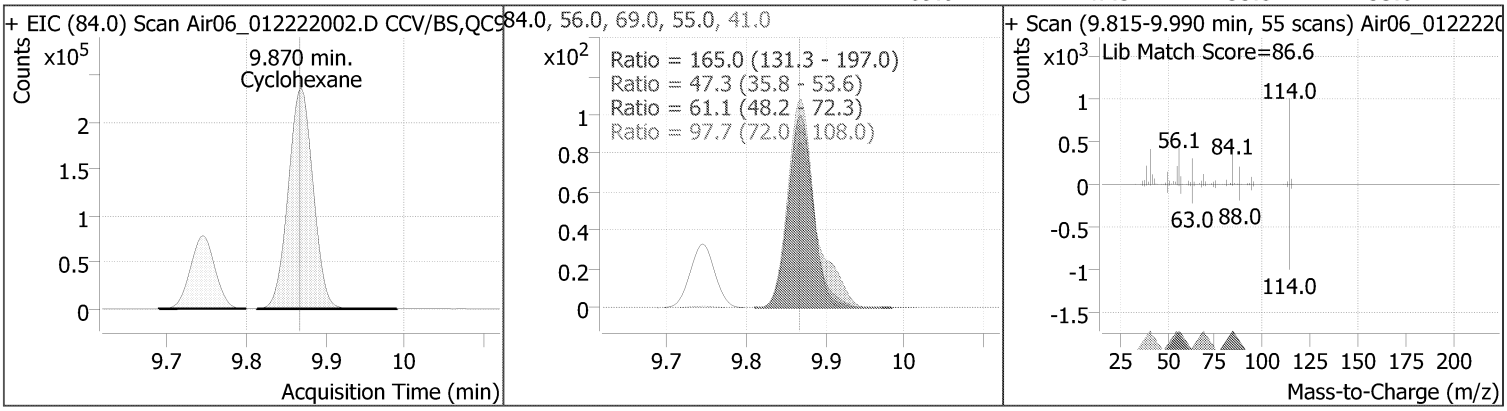

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 9.4800 | 9.61 | 0.00 | 1257620 | 77.0 | 23.3 | 18.9 | 28.3 |
| | | | | | 50.0 | 22.4 | 16.6 | 24.9 |



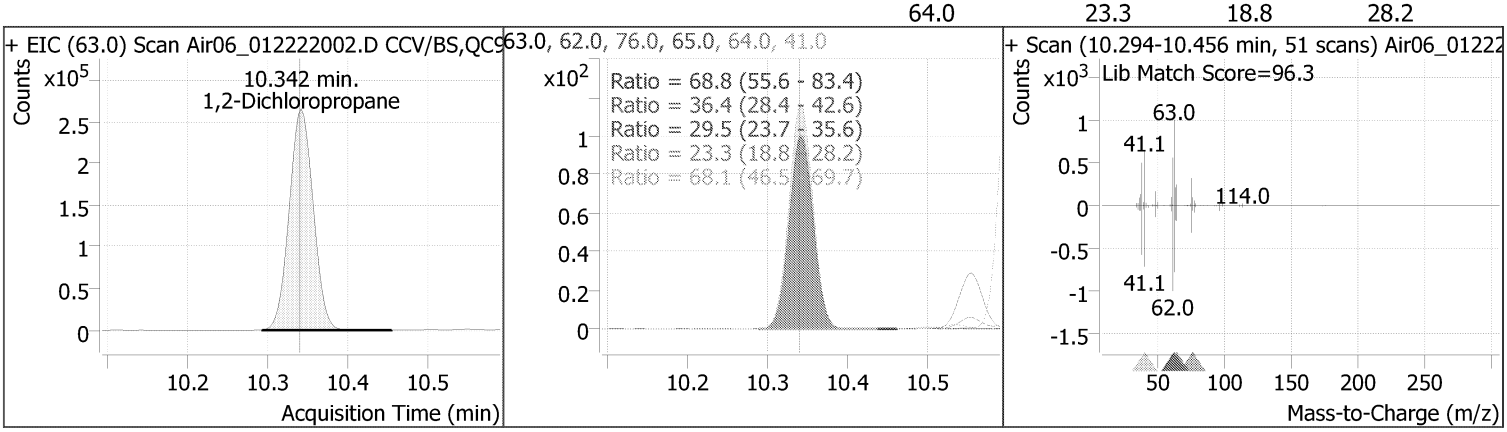

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 10.9165 | 9.75 | 0.00 | 1036672 | 119.0 | 95.7 | 77.1 | 115.7 |
| | | | | | 121.0 | 30.9 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.8 | 19.3 | 28.9 |
| | | | | | 47.0 | 29.6 | 19.0 | 28.5 |



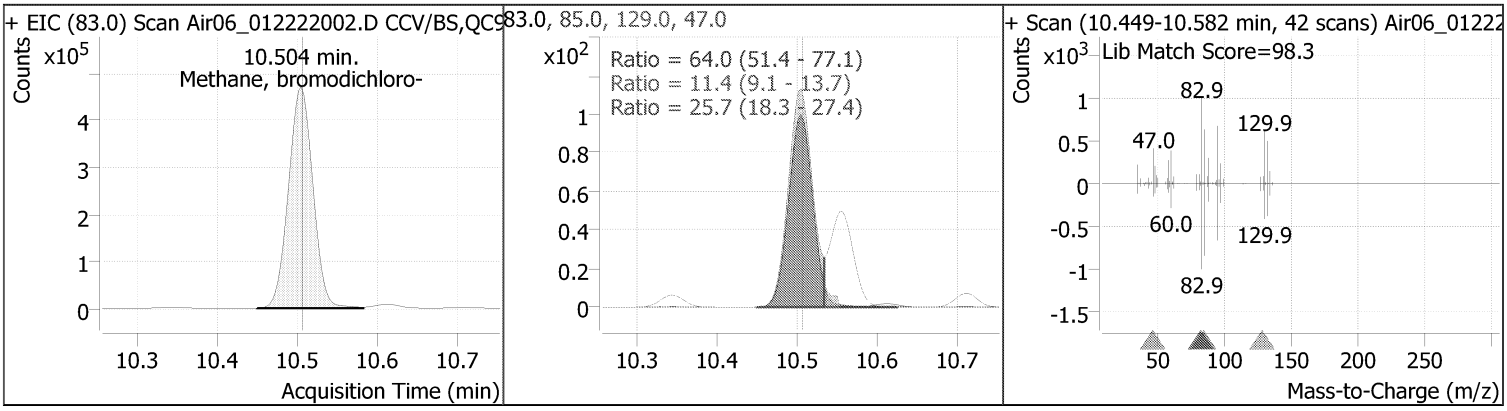
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 9.3011 | 9.87 | 0.00 | 515511 | 56.0 | 165.0 | 131.3 | 197.0 |
| | | | | | 41.0 | 97.7 | 72.0 | 108.0 |
| | | | | | 55.0 | 61.1 | 48.2 | 72.3 |
| | | | | | 69.0 | 47.3 | 35.8 | 53.6 |



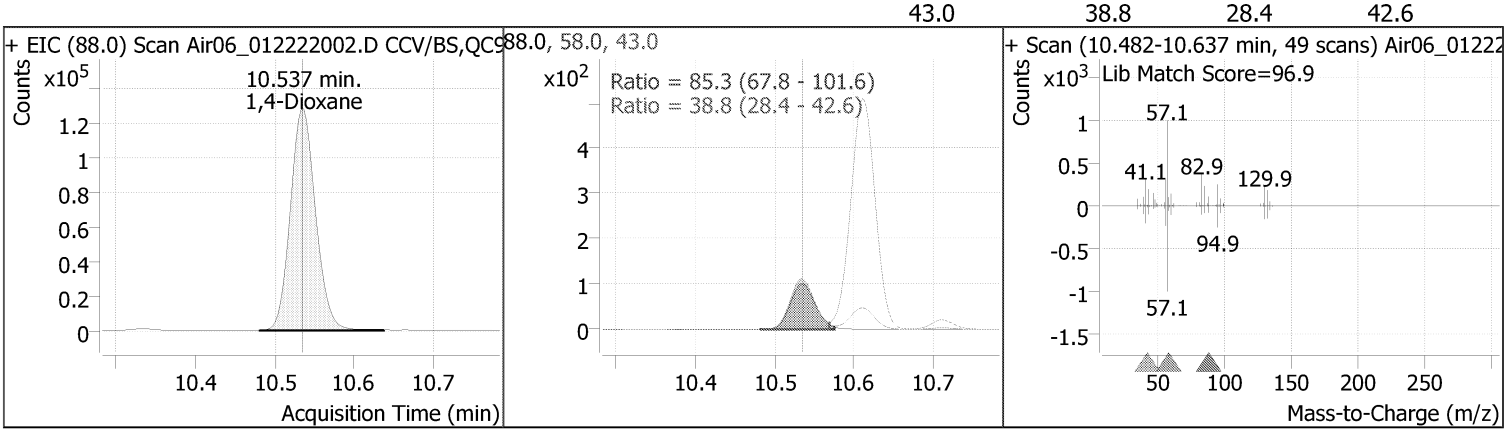

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 8.8676 | 10.34 | 0.00 | 556623 | 62.0 | 68.8 | 55.6 | 83.4 |
| | | | | | 41.0 | 68.1 | 46.5 | 69.7 |
| | | | | | 76.0 | 36.4 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.5 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.3 | 18.8 | 28.2 |



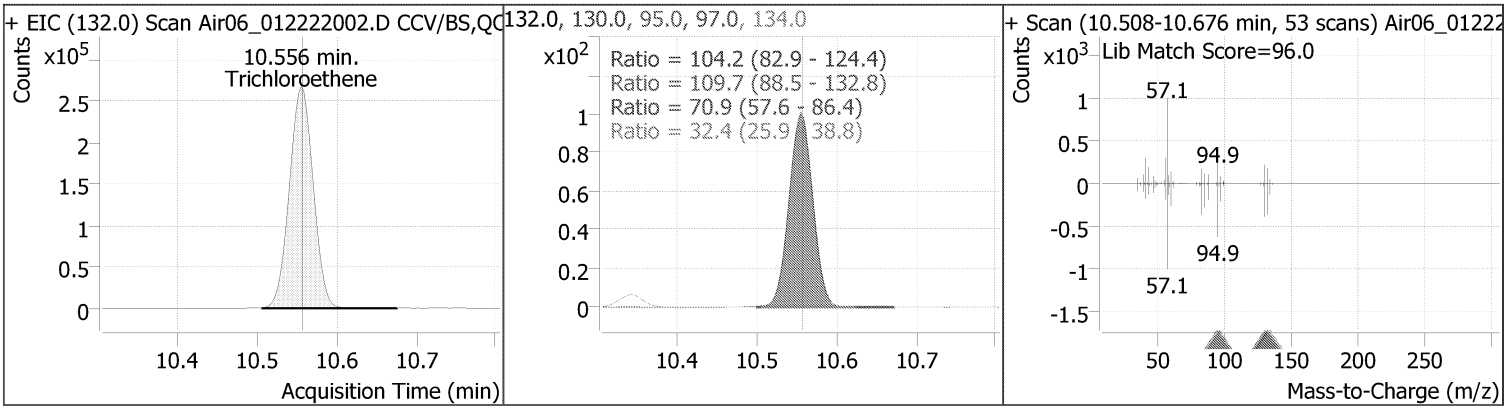

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 9.8244 | 10.50 | 0.00 | 1006250 | 85.0 | 64.0 | 51.4 | 77.1 |
| | | | | | 47.0 | 25.7 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.4 | 9.1 | 13.7 |



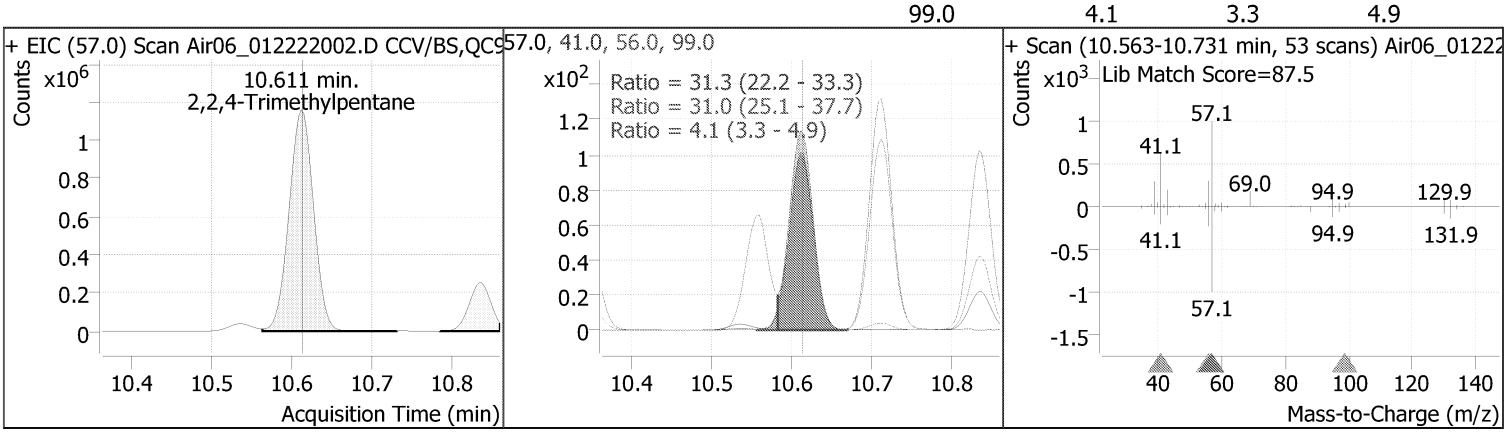
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 8.6016 | 10.54 | 0.00 | 281757 | 58.0 | 85.3 | 67.8 | 101.6 |
| | | | | | 43.0 | 38.8 | 28.4 | 42.6 |



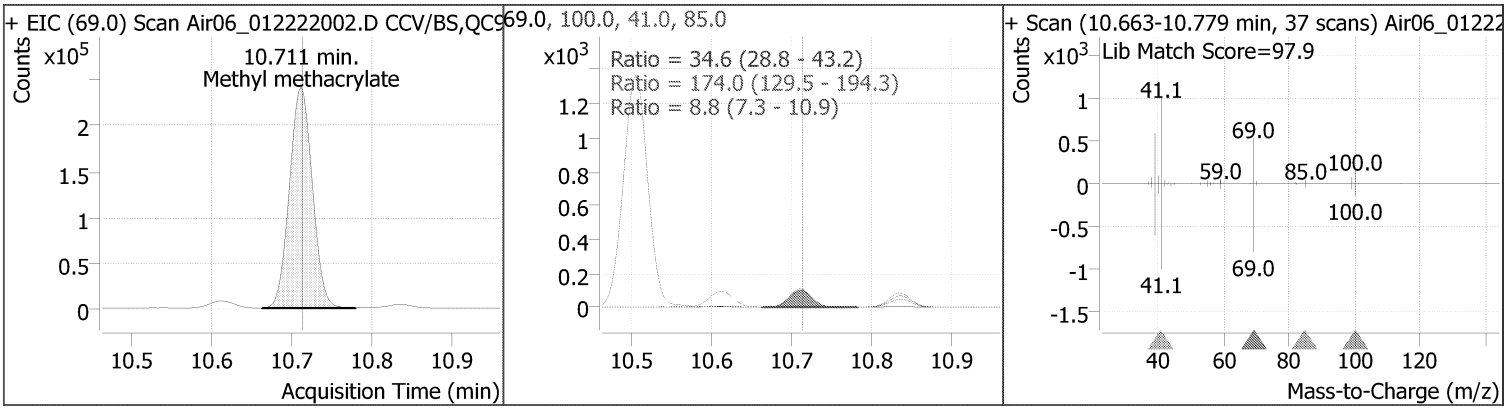

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 8.7009 | 10.56 | 0.00 | 555593 | 95.0 | 109.7 | 88.5 | 132.8 |
| | | | | | 130.0 | 104.2 | 82.9 | 124.4 |
| | | | | | 97.0 | 70.9 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.4 | 25.9 | 38.8 |



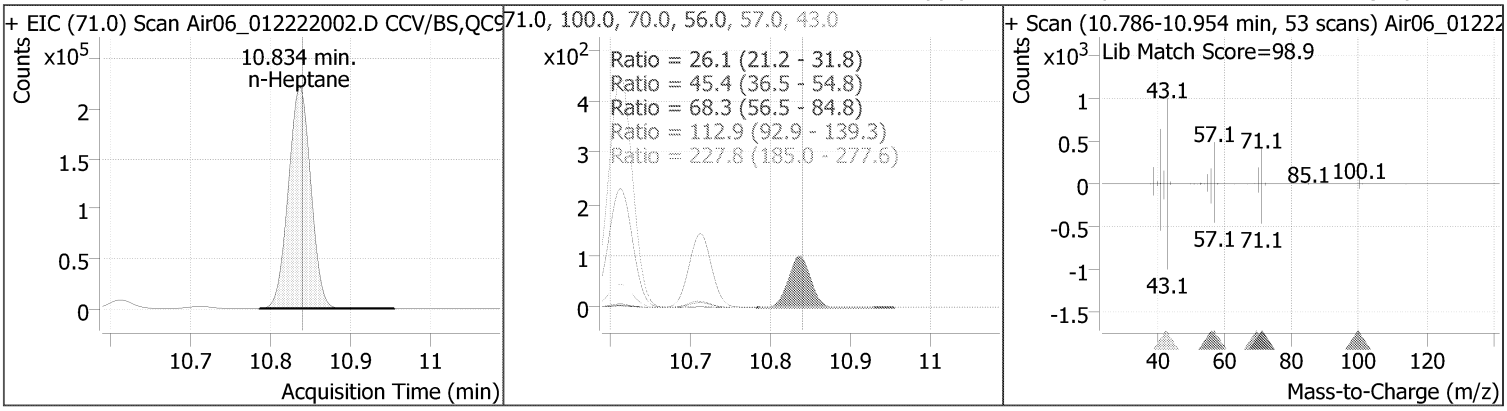

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 8.7102 | 10.61 | 0.00 | 2488269 | 56.0 | 31.0 | 25.1 | 37.7 |
| | | | | | 41.0 | 31.3 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.1 | 3.3 | 4.9 |



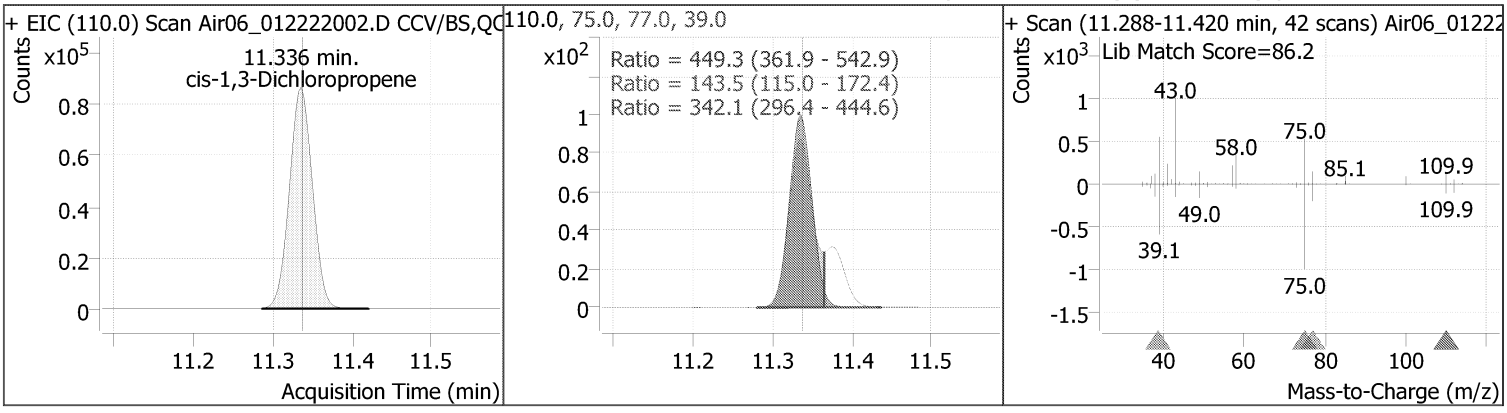
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 9.0870 | 10.71 | 0.00 | 484196 | 41.0 | 174.0 | 129.5 | 194.3 |
| | | | | | 100.0 | 34.6 | 28.8 | 43.2 |
| | | | | | 85.0 | 8.8 | 7.3 | 10.9 |



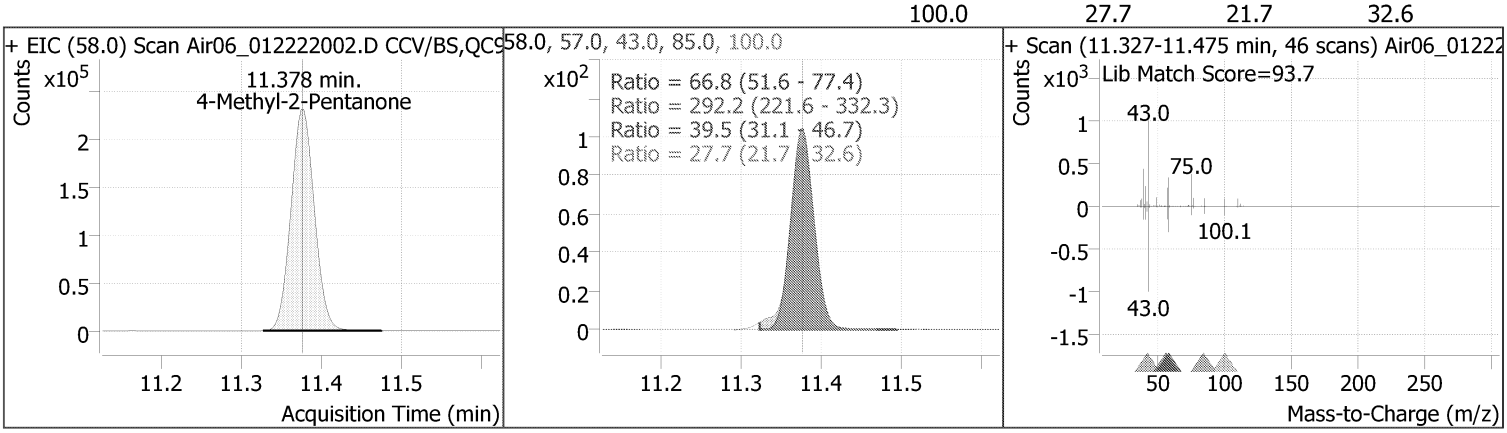

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 8.8563 | 10.83 | 0.00 | 437047 | 43.0 | 227.8 | 185.0 | 277.6 |
| | | | | | 57.0 | 112.9 | 92.9 | 139.3 |
| | | | | | 56.0 | 68.3 | 56.5 | 84.8 |
| | | | | | 70.0 | 45.4 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.1 | 21.2 | 31.8 |



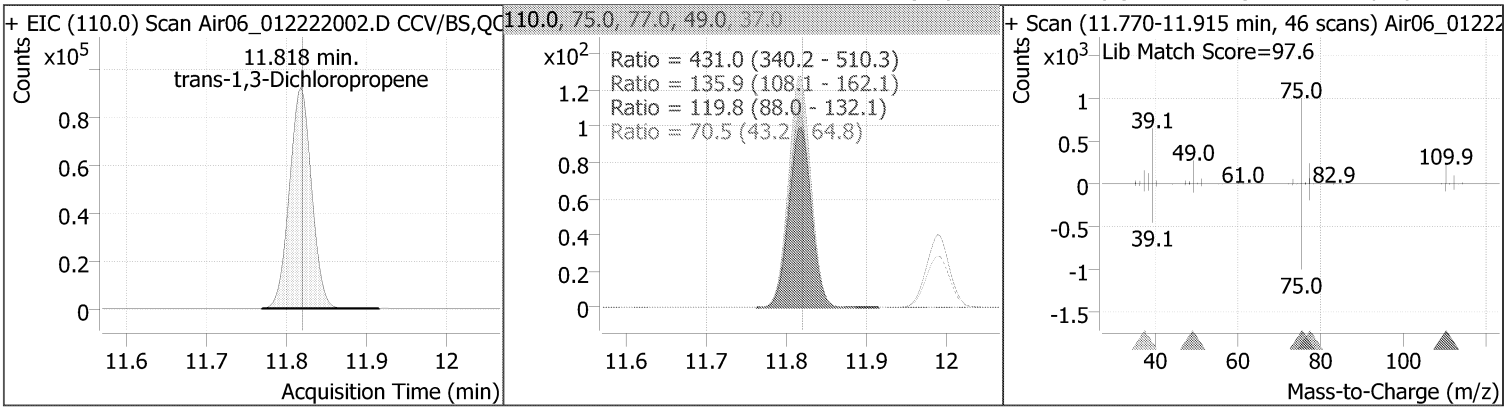

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 8.7368 | 11.34 | 0.00 | 174094 | 75.0 | 449.3 | 361.9 | 542.9 |
| | | | | | 39.0 | 342.1 | 296.4 | 444.6 |
| | | | | | 77.0 | 143.5 | 115.0 | 172.4 |



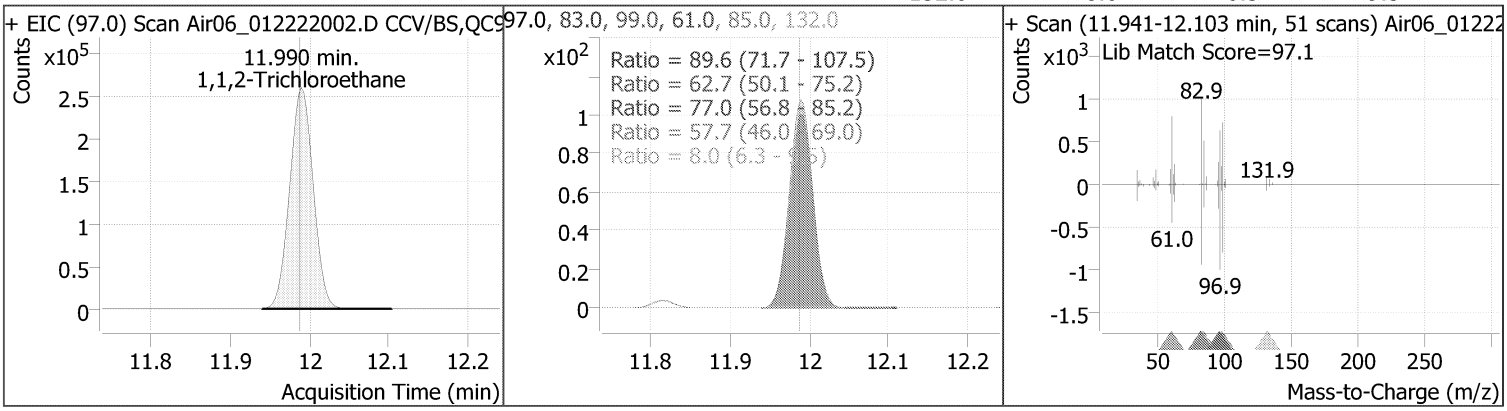
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 8.6359 | 11.38 | 0.00 | 475445 | 43.0 | 292.2 | 221.6 | 332.3 |
| | | | | | 57.0 | 66.8 | 51.6 | 77.4 |
| | | | | | 85.0 | 39.5 | 31.1 | 46.7 |
| | | | | | 100.0 | 27.7 | 21.7 | 32.6 |



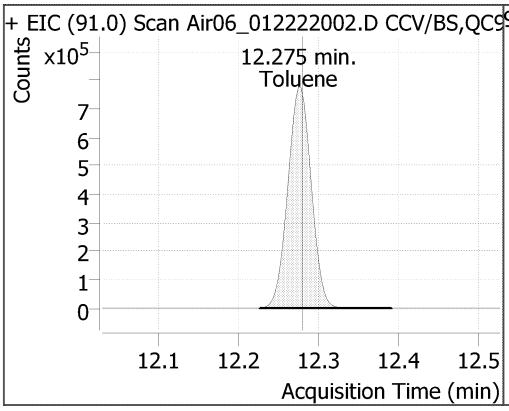

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 8.7623 | 11.82 | 0.00 | 179016 | 75.0 | 431.0 | 340.2 | 510.3 |
| | | | | | 77.0 | 135.9 | 108.1 | 162.1 |
| | | | | | 49.0 | 119.8 | 88.0 | 132.1 |
| | | | | | 37.0 | 70.5 | 43.2 | 64.8 |

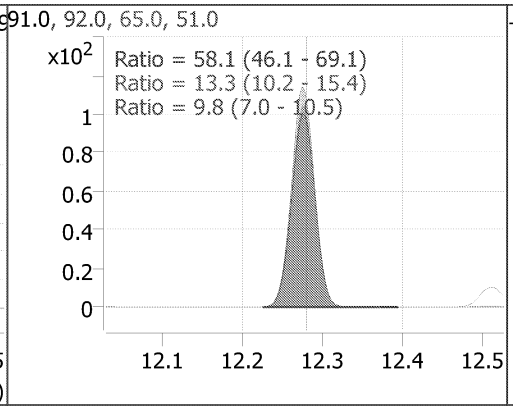


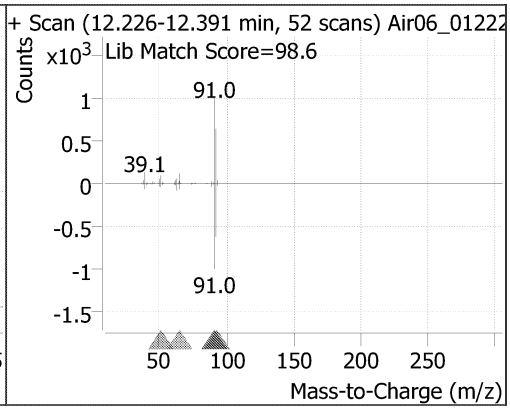

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 8.9871 | 11.99 | 0.00 | 537234 | 83.0 | 89.6 | 71.7 | 107.5 |
| | | | | | 61.0 | 77.0 | 56.8 | 85.2 |
| | | | | | 99.0 | 62.7 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.7 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.0 | 6.3 | 9.5 |



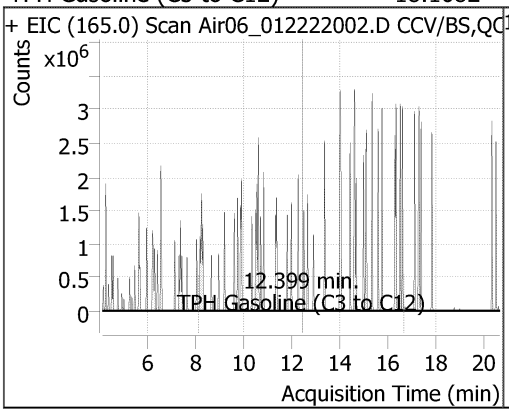
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 8.7480 | 12.27 | 0.00 | 1588989 | 92.0 | 58.1 | 46.1 | 69.1 |
| | | | | | 65.0 | 13.3 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.8 | 7.0 | 10.5 |

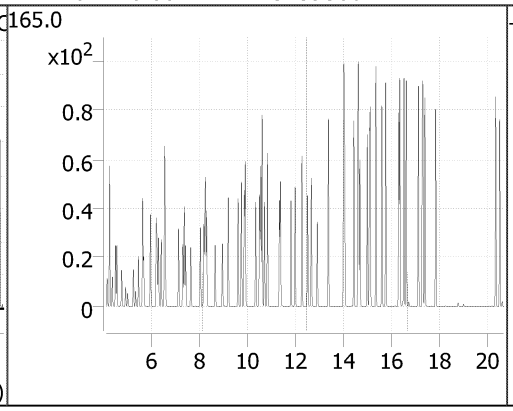


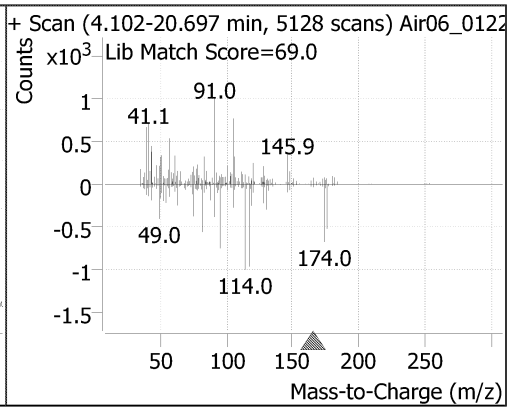



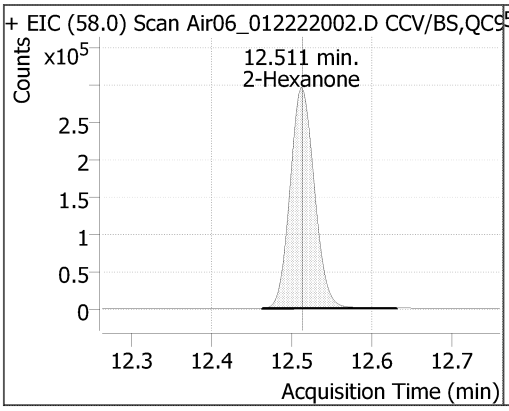

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 18.1082 | 12.40 | 0.00 | 234593067 | | | | |

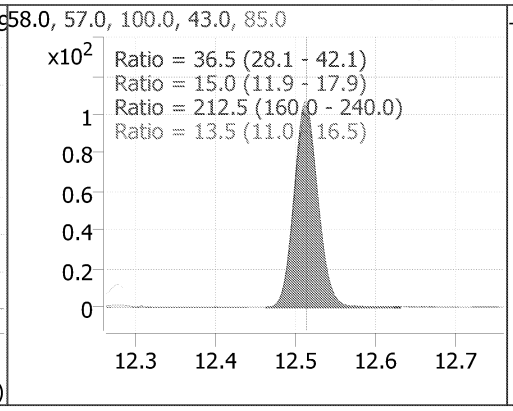


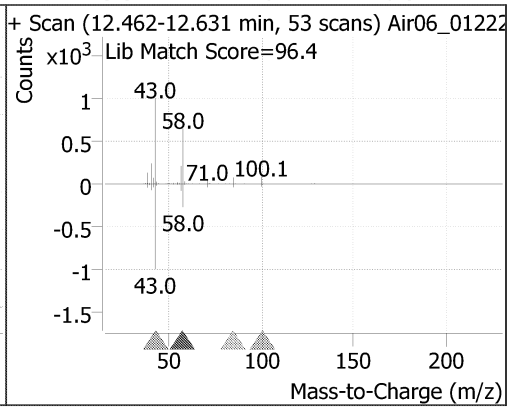



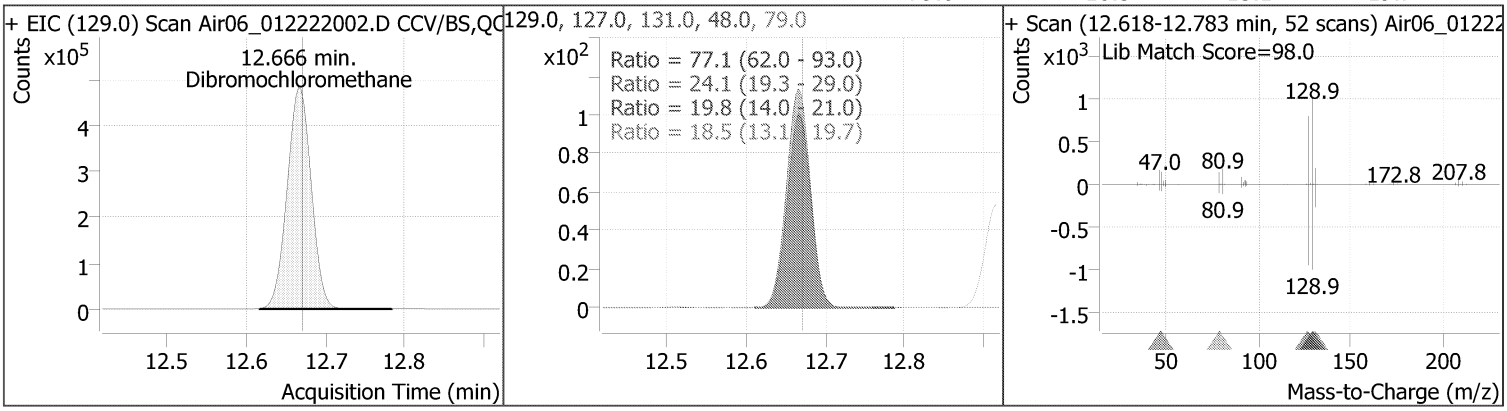

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 8.8988 | 12.51 | 0.00 | 629247 | 43.0 | 212.5 | 160.0 | 240.0 |
| | | | | | 57.0 | 36.5 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.0 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.5 | 11.0 | 16.5 |



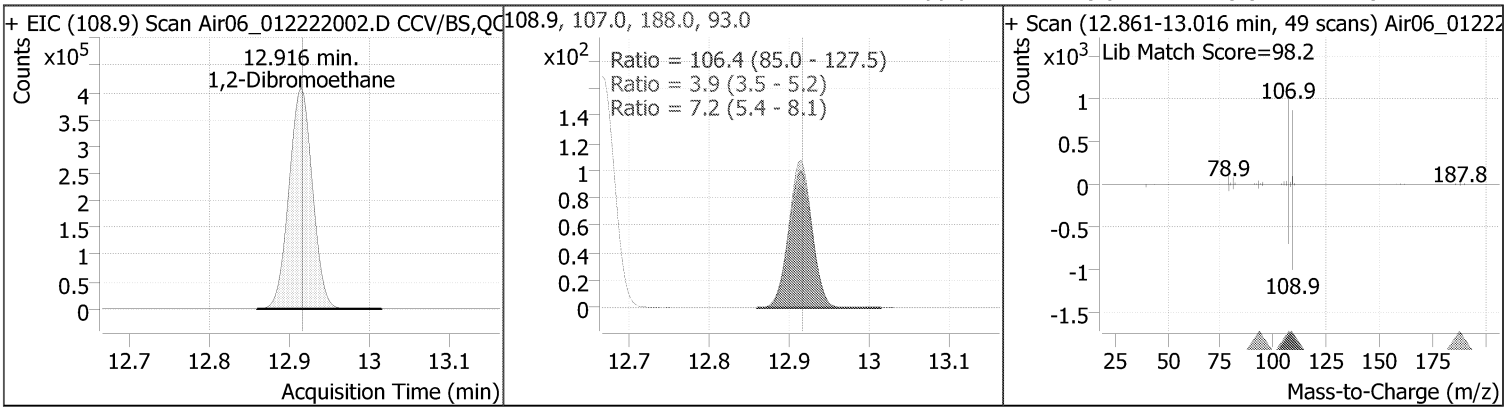



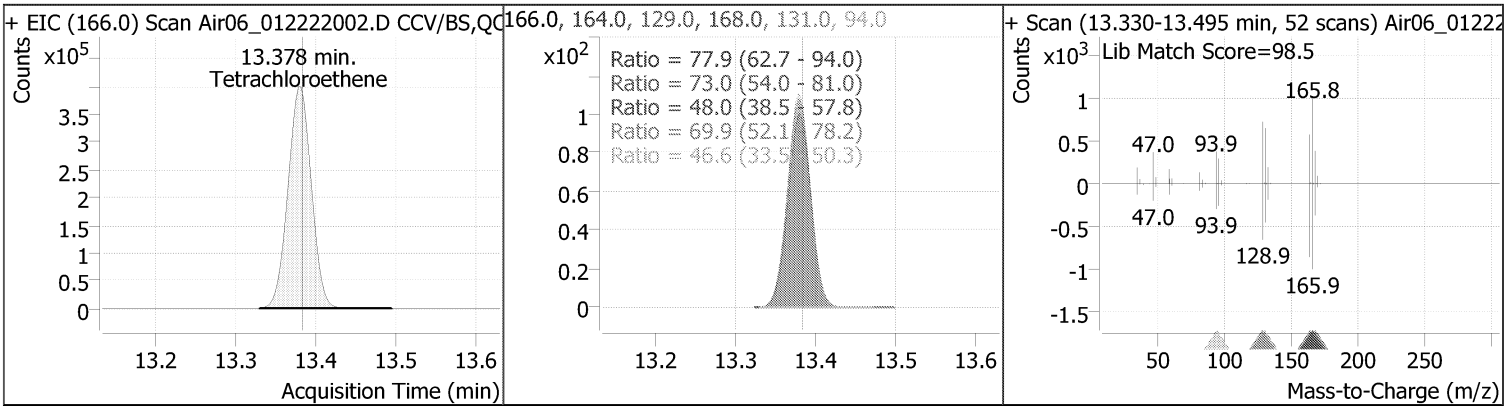
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 9.3932 | 12.67 | 0.00 | 1019352 | 127.0 | 77.1 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.1 | 19.3 | 29.0 |
| | | | | | 48.0 | 19.8 | 14.0 | 21.0 |
| | | | | | 79.0 | 18.5 | 13.1 | 19.7 |



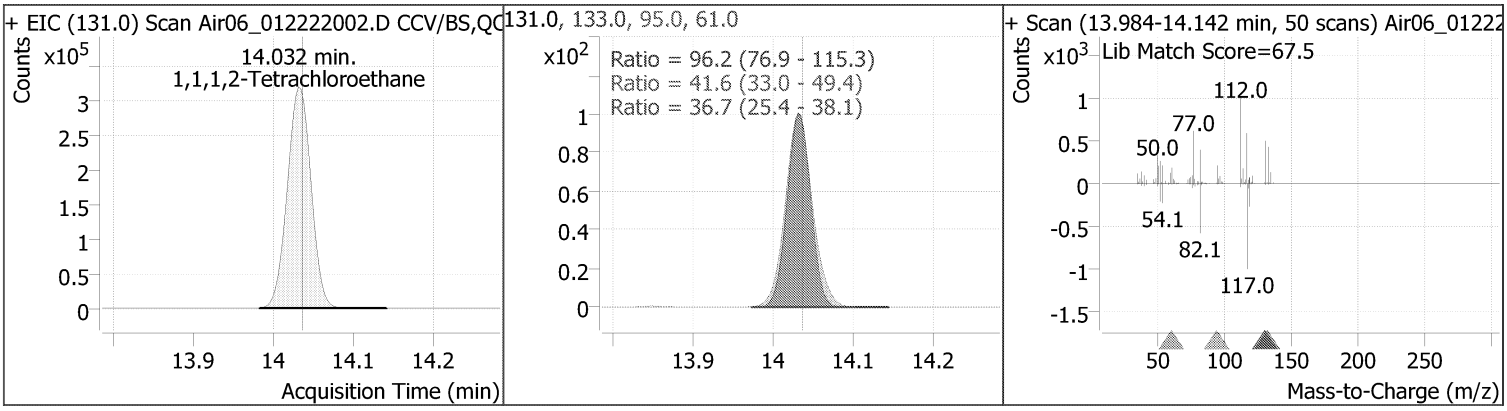

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 9.0856 | 12.92 | 0.00 | 835561 | 107.0 | 106.4 | 85.0 | 127.5 |
| | | | | | 93.0 | 7.2 | 5.4 | 8.1 |
| | | | | | 188.0 | 3.9 | 3.5 | 5.2 |



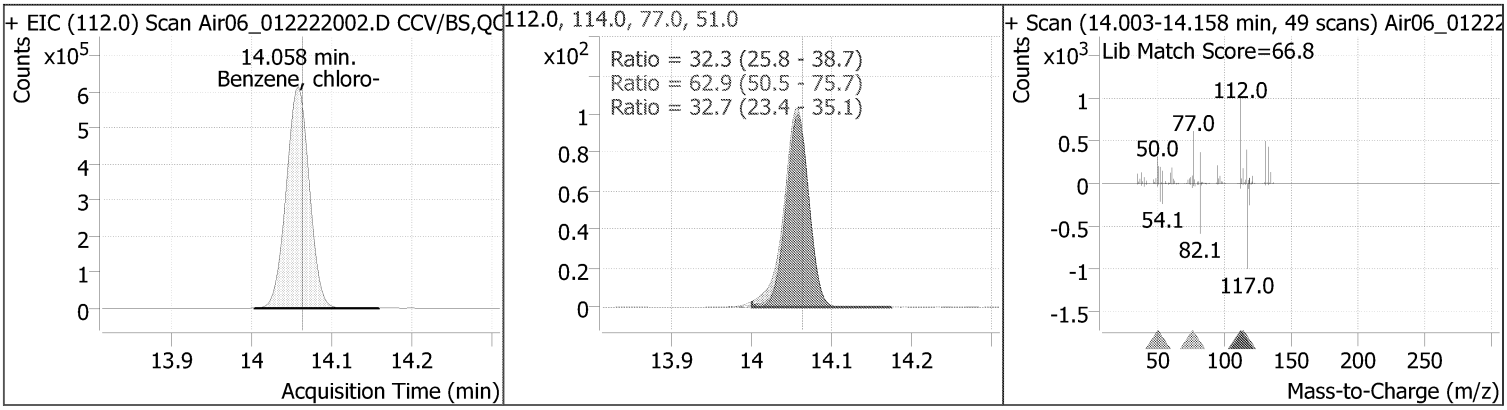

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 8.6576 | 13.38 | 0.00 | 813023 | 164.0 | 77.9 | 62.7 | 94.0 |
| | | | | | 129.0 | 73.0 | 54.0 | 81.0 |
| | | | | | 131.0 | 69.9 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.0 | 38.5 | 57.8 |
| | | | | | 94.0 | 46.6 | 33.5 | 50.3 |



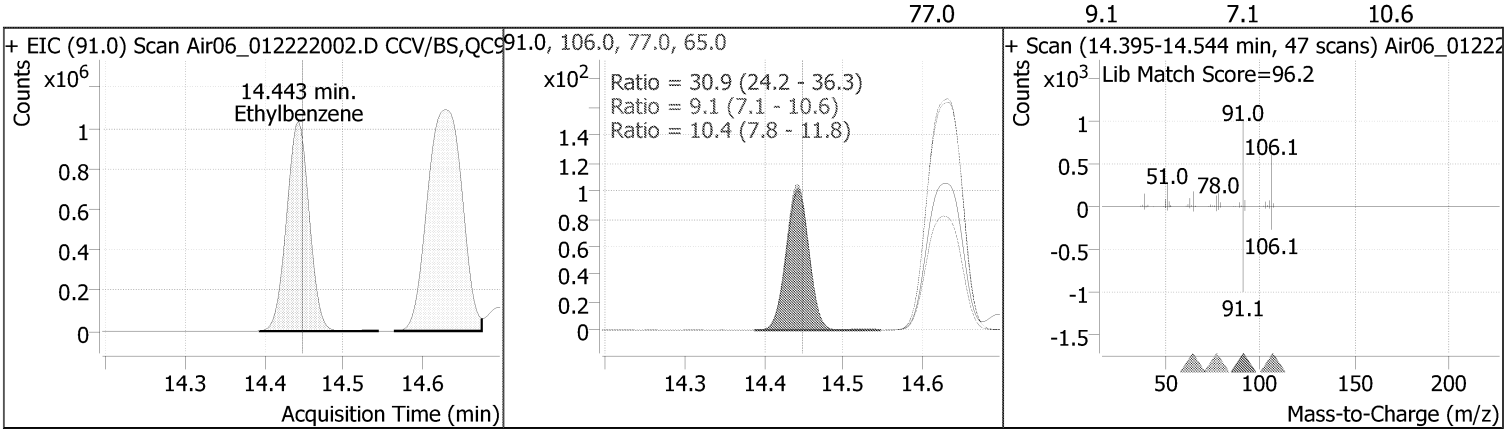
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 9.5469 | 14.03 | 0.00 | 662588 | 133.0 | 96.2 | 76.9 | 115.3 |
| | | | | | 95.0 | 41.6 | 33.0 | 49.4 |
| | | | | | 61.0 | 36.7 | 25.4 | 38.1 |



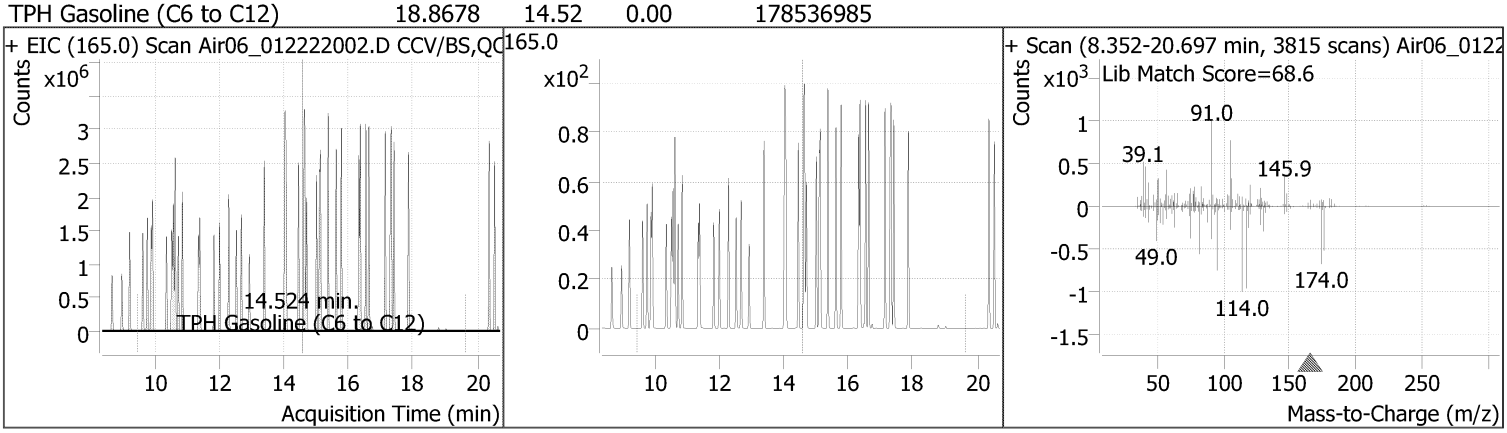

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 8.9806 | 14.06 | 0.00 | 1236852 | 77.0 | 62.9 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.3 | 25.8 | 38.7 |
| | | | | | 51.0 | 32.7 | 23.4 | 35.1 |



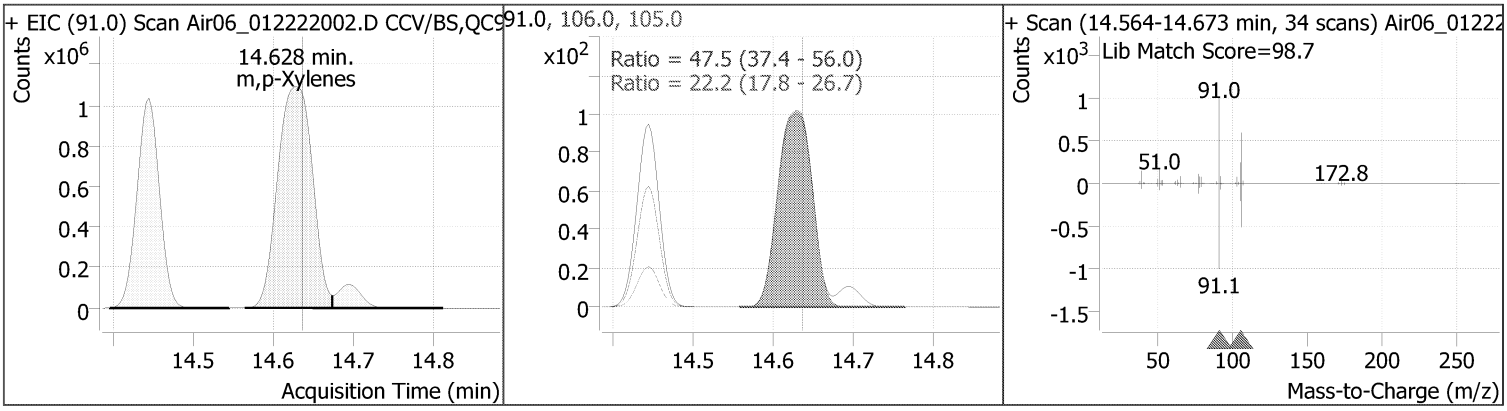

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 9.2752 | 14.44 | 0.00 | 2029477 | 106.0 | 30.9 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.4 | 7.8 | 11.8 |
| | | | | | 77.0 | 9.1 | 7.1 | 10.6 |



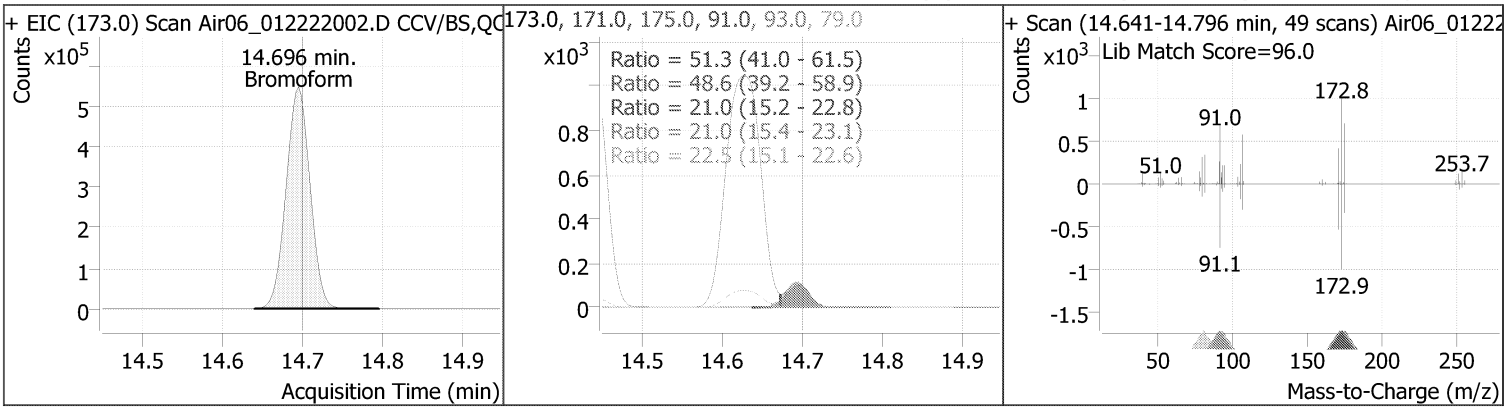
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 18.8678 | 14.52 | 0.00 | 178536985 | | | | |



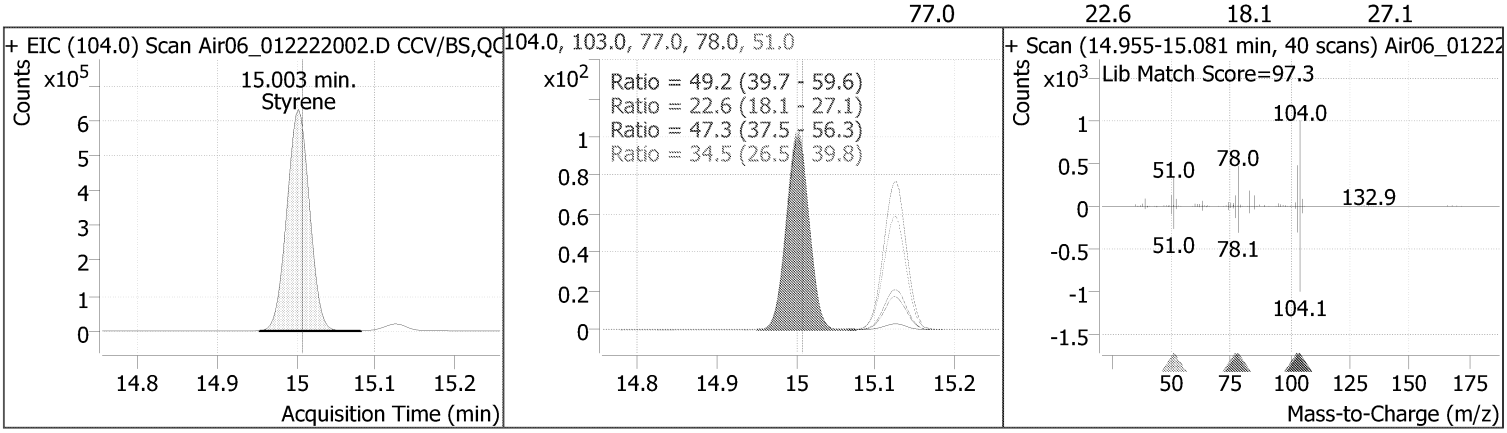

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 18.7858 | 14.63 | -0.01 | 3305788 | 106.0 | 47.5 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.2 | 17.8 | 26.7 |



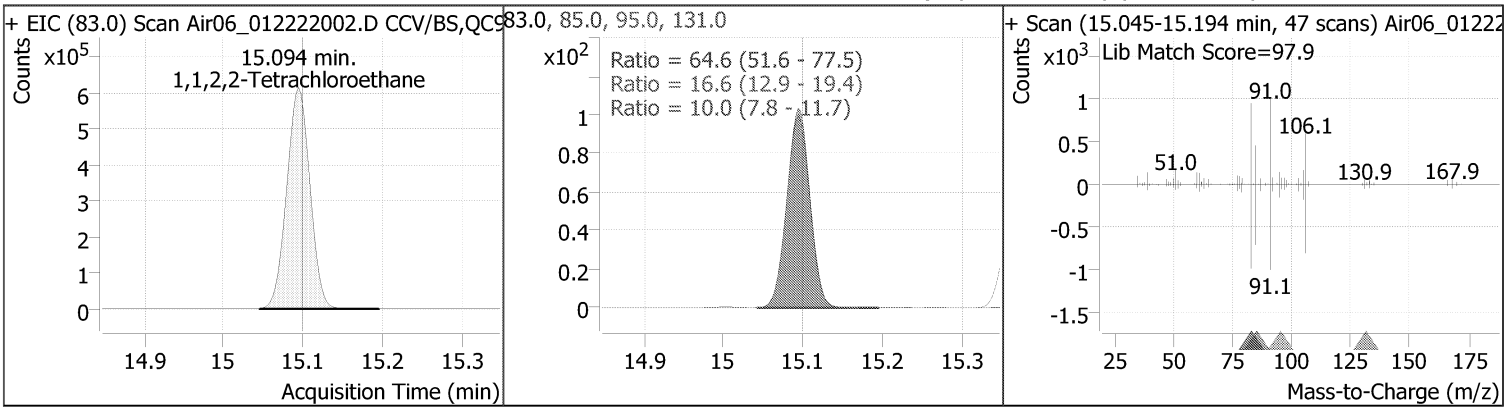

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 9.4566 | 14.70 | 0.00 | 1139779 | 171.0 | 51.3 | 41.0 | 61.5 |
| | | | | | 175.0 | 48.6 | 39.2 | 58.9 |
| | | | | | 93.0 | 21.0 | 15.4 | 23.1 |
| | | | | | 91.0 | 21.0 | 15.2 | 22.8 |
| | | | | | 79.0 | 22.5 | 15.1 | 22.6 |



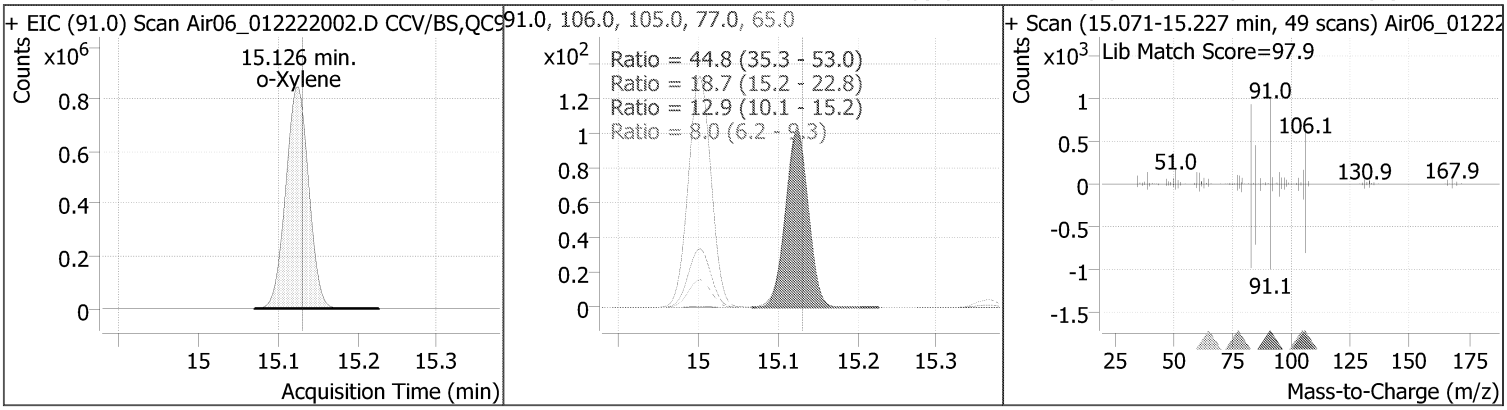
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 8.9642 | 15.00 | 0.00 | 1250078 | 103.0 | 49.2 | 39.7 | 59.6 |
| | | | | | 78.0 | 47.3 | 37.5 | 56.3 |
| | | | | | 51.0 | 34.5 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.6 | 18.1 | 27.1 |



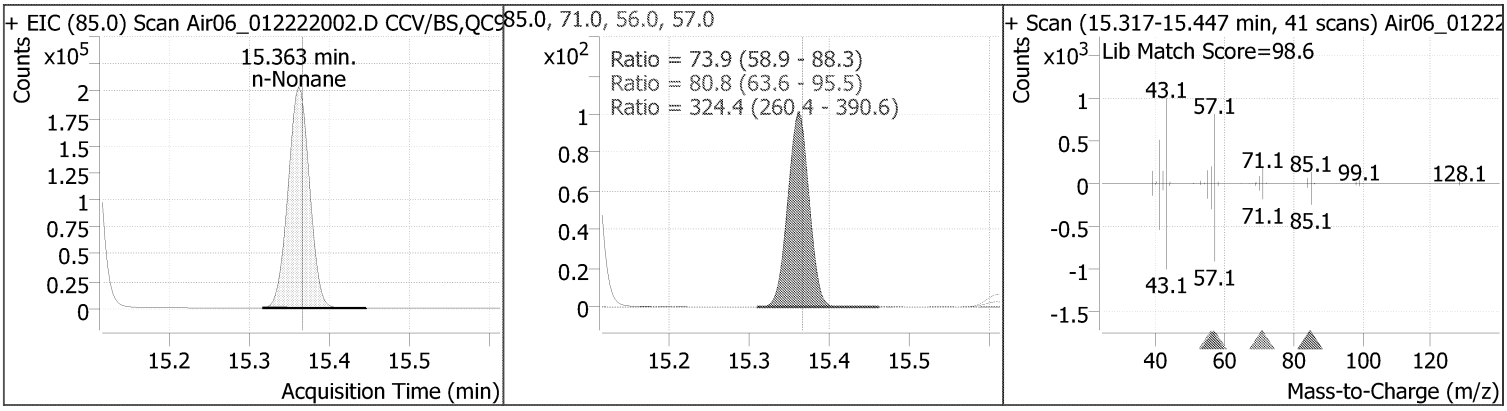

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 9.3581 | 15.09 | 0.00 | 1244402 | 85.0 | 64.6 | 51.6 | 77.5 |
| | | | | | 95.0 | 16.6 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.0 | 7.8 | 11.7 |



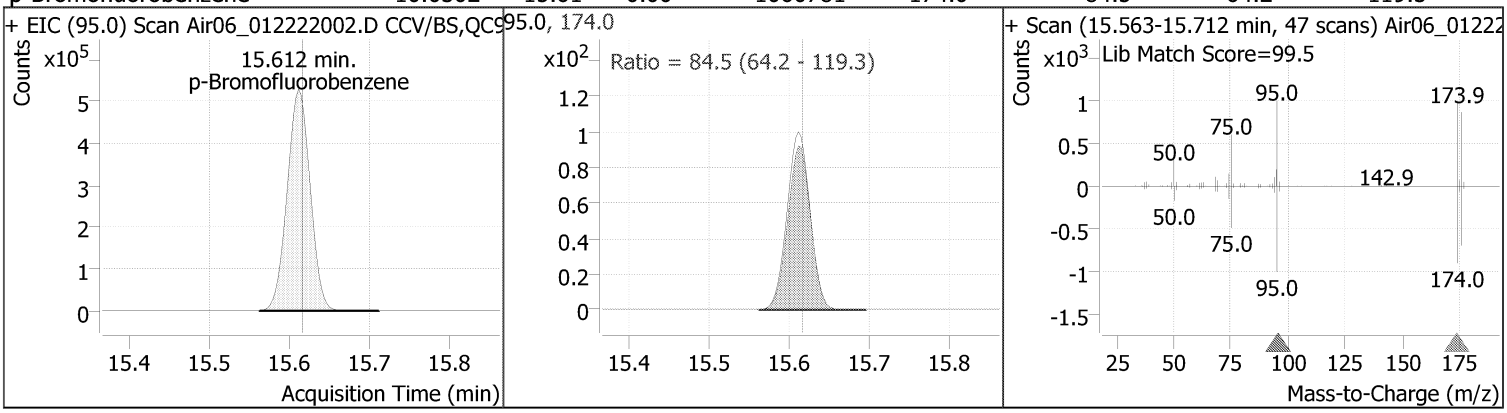

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 9.3895 | 15.13 | 0.00 | 1698748 | 106.0 | 44.8 | 35.3 | 53.0 |
| | | | | | 105.0 | 18.7 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.9 | 10.1 | 15.2 |
| | | | | | 65.0 | 8.0 | 6.2 | 9.3 |



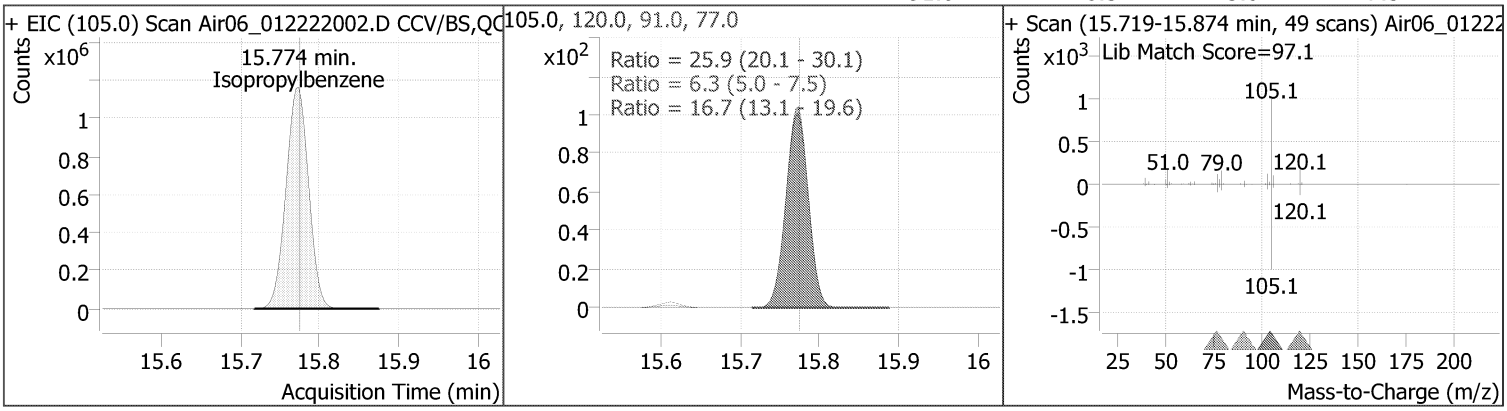
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 9.0925 | 15.36 | 0.00 | 380043 | 57.0 | 324.4 | 260.4 | 390.6 |
| | | | | | 56.0 | 80.8 | 63.6 | 95.5 |
| | | | | | 71.0 | 73.9 | 58.9 | 88.3 |



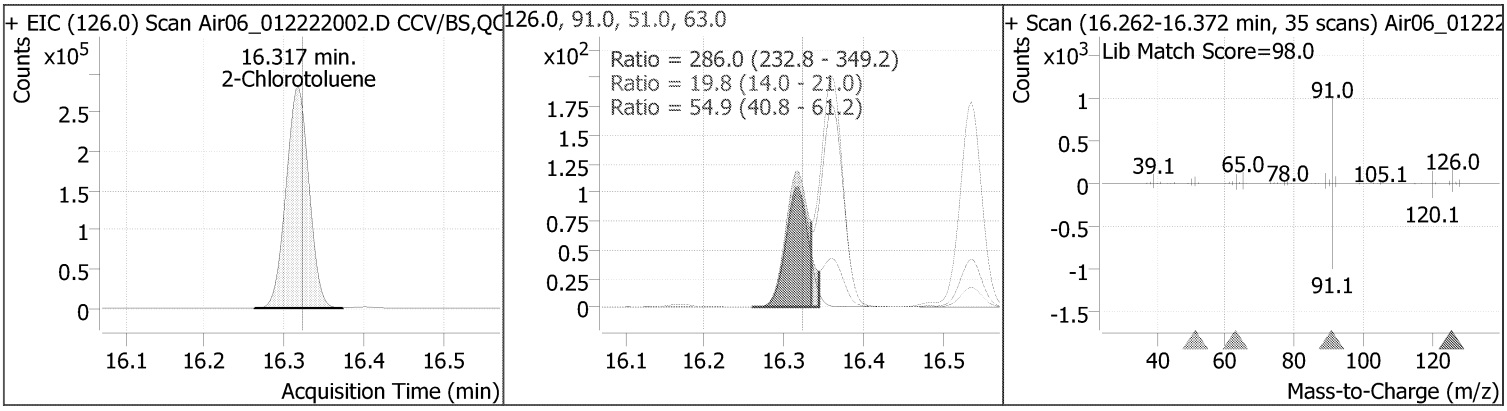

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.0302 | 15.61 | 0.00 | 1060781 | 174.0 | 84.5 | 64.2 | 119.3 |



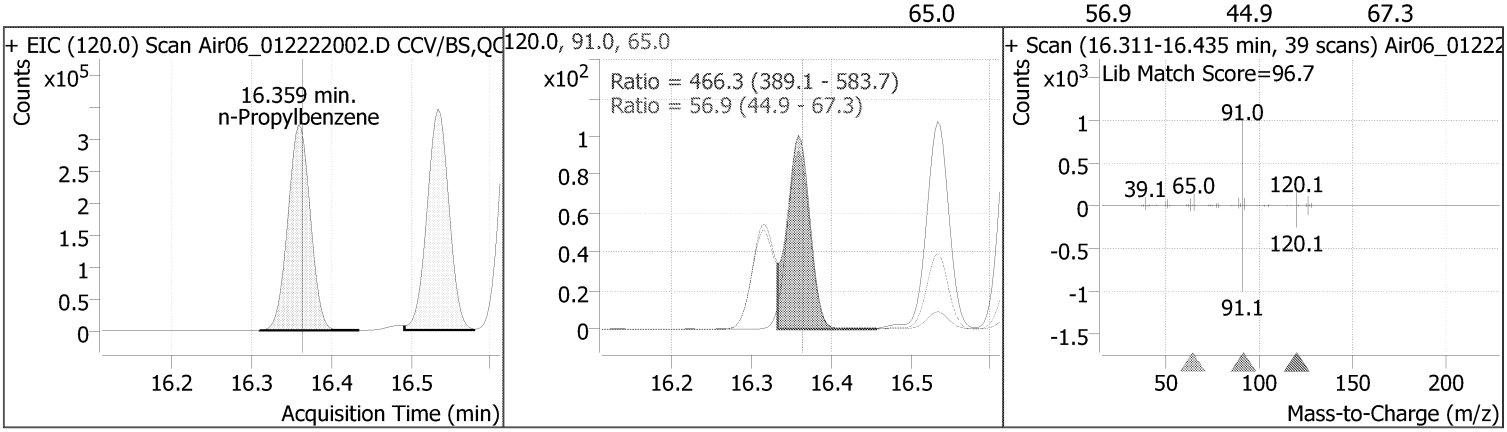

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 9.2729 | 15.77 | 0.00 | 2299738 | 120.0 | 25.9 | 20.1 | 30.1 |
| | | | | | 77.0 | 16.7 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.3 | 5.0 | 7.5 |



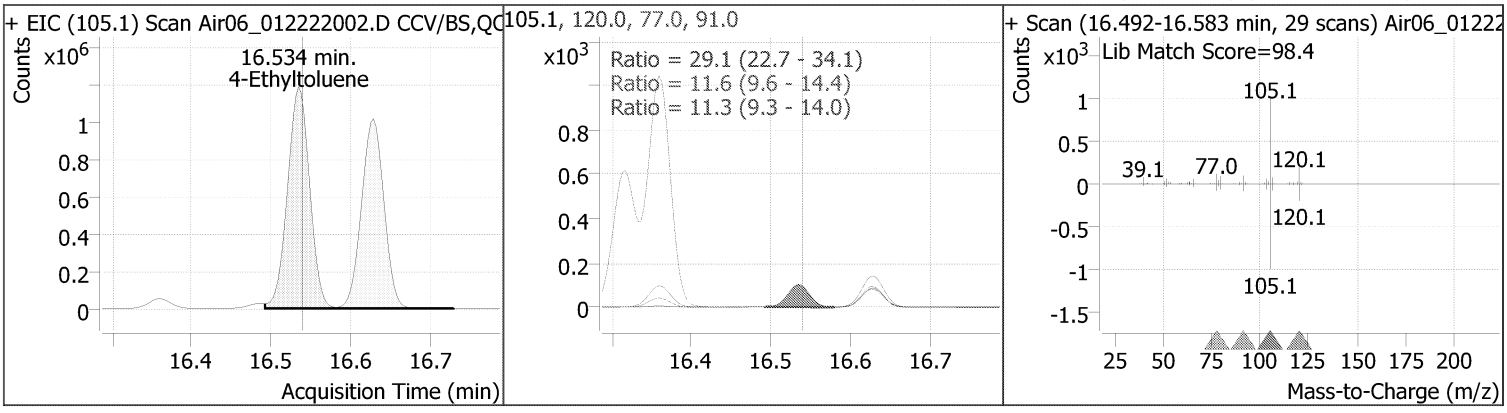
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 8.9348 | 16.32 | 0.00 | 564387 | 91.0 | 286.0 | 232.8 | 349.2 |
| | | | | | 63.0 | 54.9 | 40.8 | 61.2 |
| | | | | | 51.0 | 19.8 | 14.0 | 21.0 |



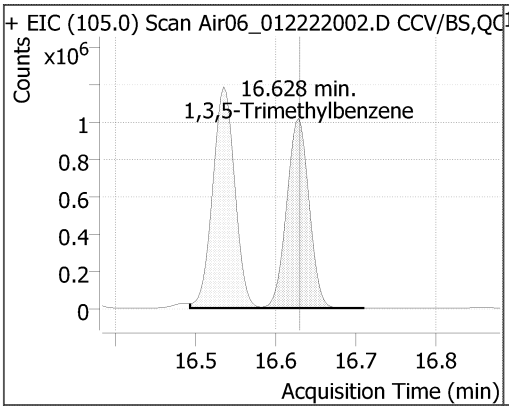

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 9.1207 | 16.36 | 0.00 | 632006 | 91.0 | 466.3 | 389.1 | 583.7 |
| | | | | | 65.0 | 56.9 | 44.9 | 67.3 |

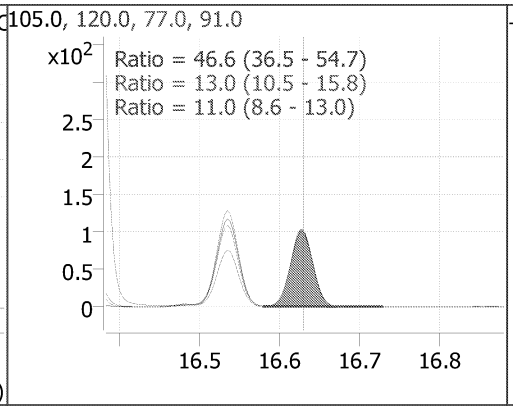


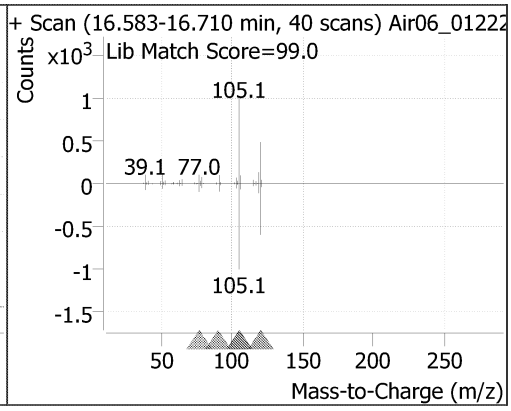

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 9.3535 | 16.53 | 0.00 | 2295596 | 120.0 | 29.1 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.6 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.3 | 9.3 | 14.0 |



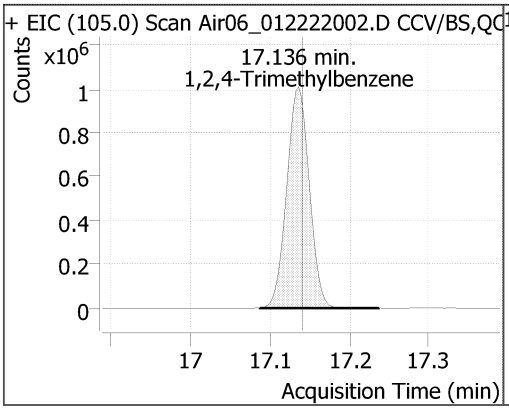
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 9.3782 | 16.63 | 0.00 | 1992490 | 120.0 | 46.6 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.0 | 10.5 | 15.8 |
| | | | | | 91.0 | 11.0 | 8.6 | 13.0 |

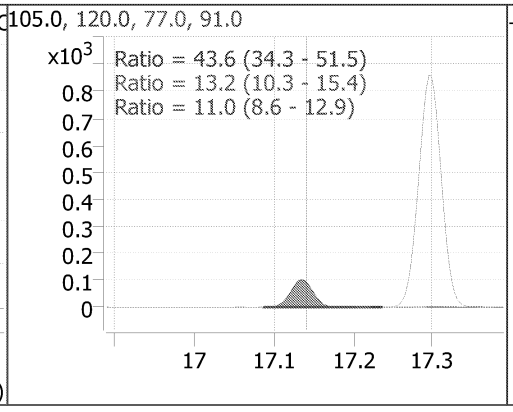


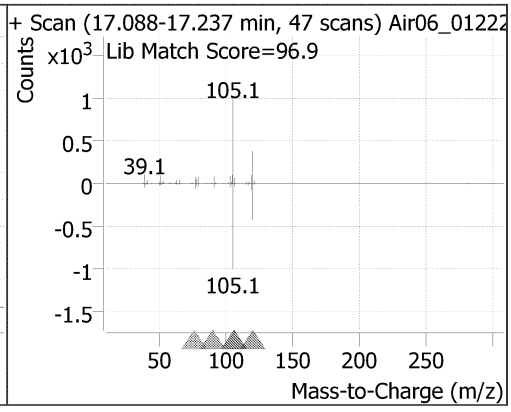



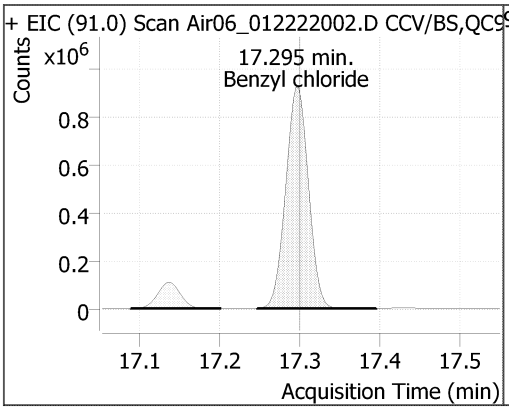

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 9.4044 | 17.14 | 0.00 | 1984491 | 120.0 | 43.6 | 34.3 | 51.5 |
| | | | | | 77.0 | 13.2 | 10.3 | 15.4 |
| | | | | | 91.0 | 11.0 | 8.6 | 12.9 |

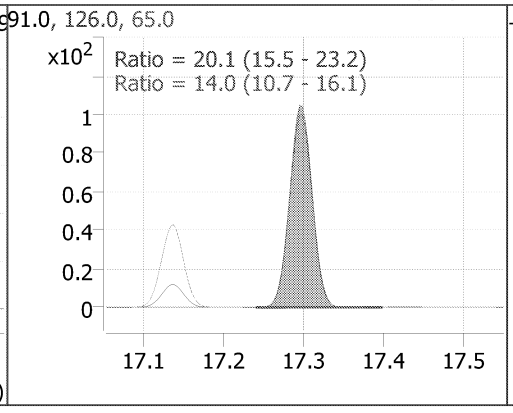


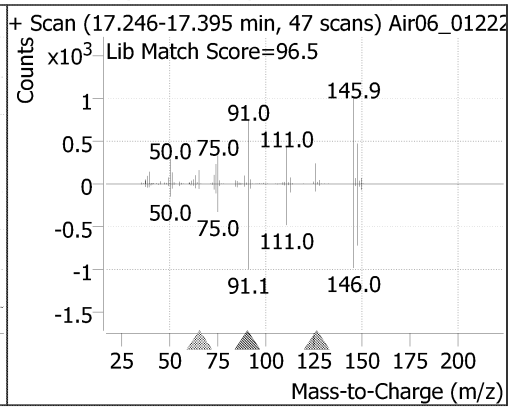



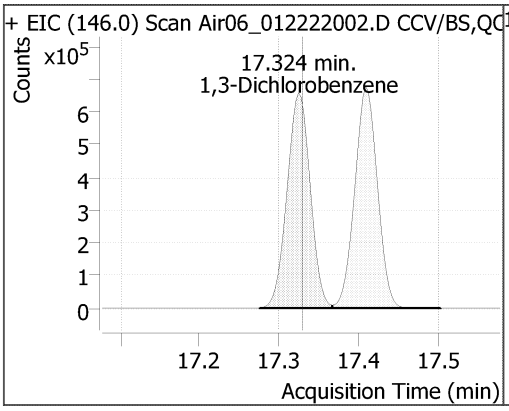

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 9.9439 | 17.29 | -0.01 | 1845045 | 126.0 | 20.1 | 15.5 | 23.2 |
| | | | | | 65.0 | 14.0 | 10.7 | 16.1 |

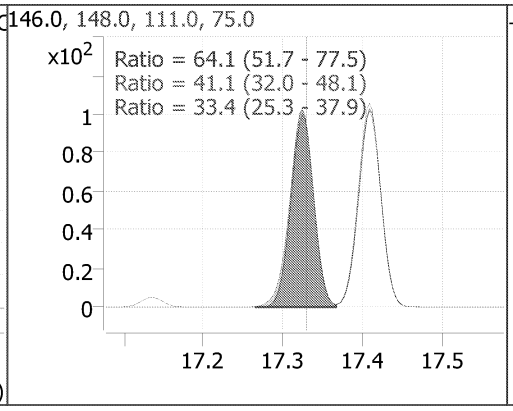


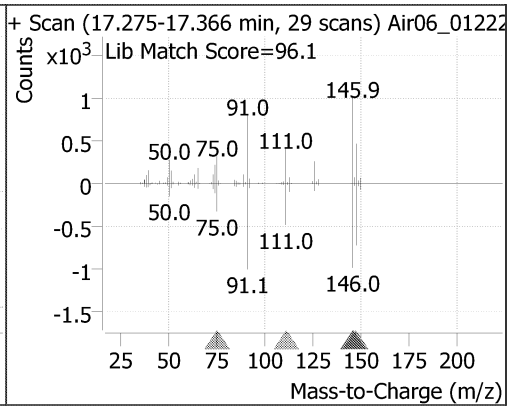



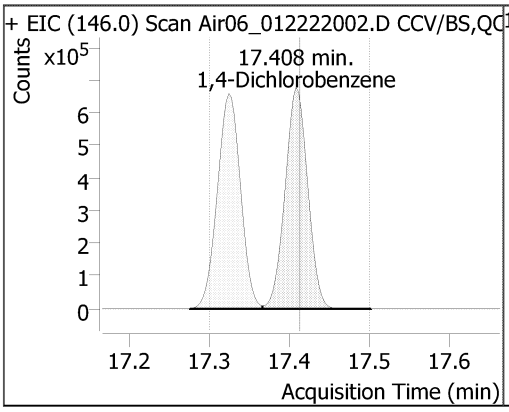
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 9.1958 | 17.32 | 0.00 | 1330997 | 148.0 | 64.1 | 51.7 | 77.5 |
| | | | | | 111.0 | 41.1 | 32.0 | 48.1 |
| | | | | | 75.0 | 33.4 | 25.3 | 37.9 |

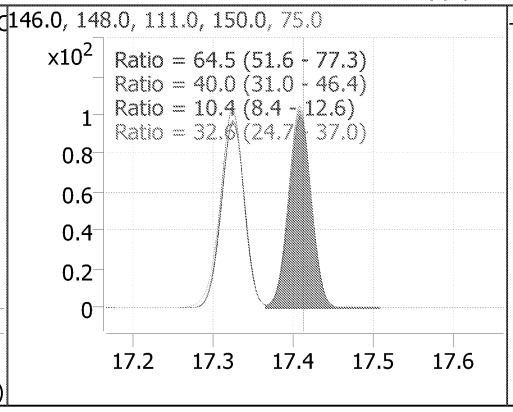


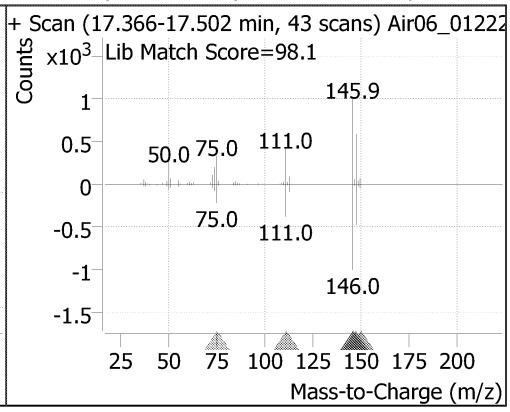



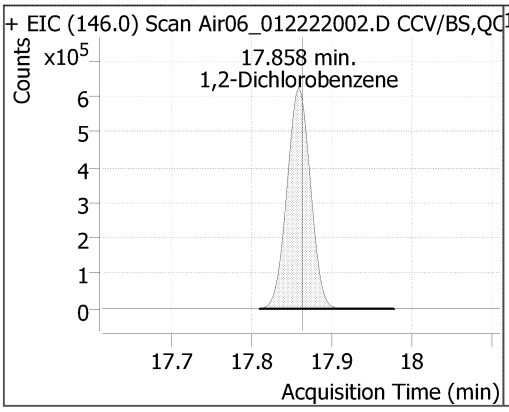

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 9.1368 | 17.41 | -0.01 | 1337268 | 148.0 | 64.5 | 51.6 | 77.3 |
| | | | | | 111.0 | 40.0 | 31.0 | 46.4 |
| | | | | | 75.0 | 32.6 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.4 | 8.4 | 12.6 |

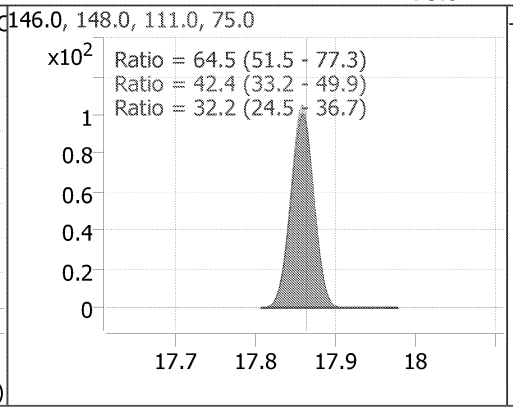


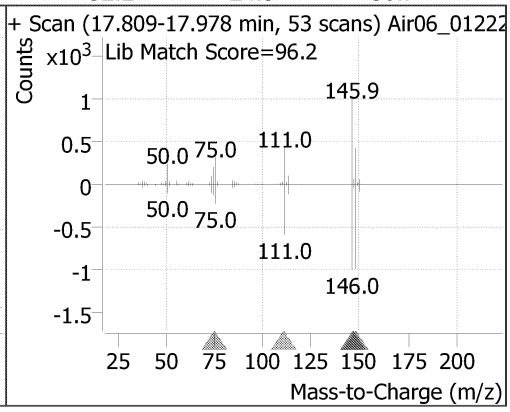



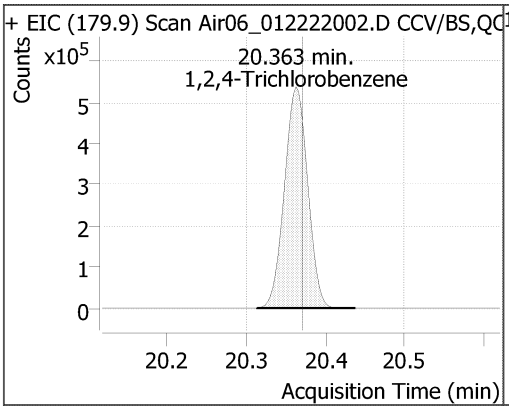

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 9.0512 | 17.86 | 0.00 | 1277756 | 148.0 | 64.5 | 51.5 | 77.3 |
| | | | | | 111.0 | 42.4 | 33.2 | 49.9 |
| | | | | | 75.0 | 32.2 | 24.5 | 36.7 |

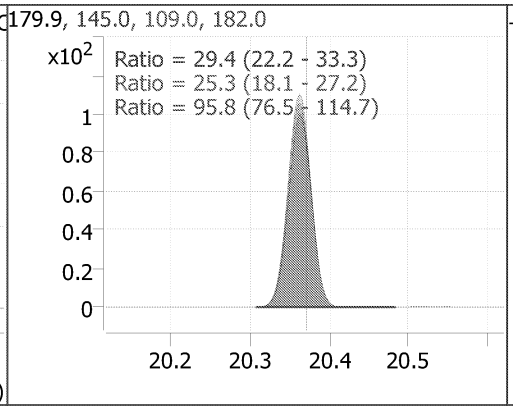


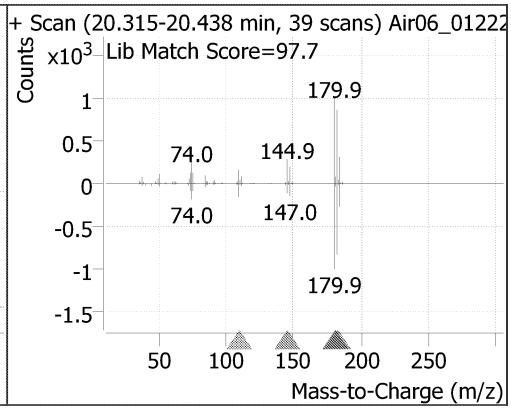



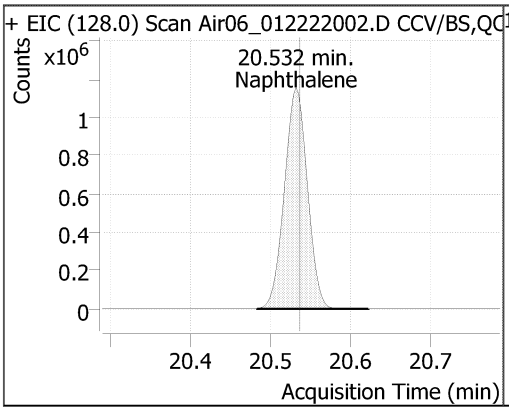
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 9.3989 | 20.36 | -0.01 | 1093346 | 182.0 | 95.8 | 76.5 | 114.7 |
| | | | | | 145.0 | 29.4 | 22.2 | 33.3 |
| | | | | | 109.0 | 25.3 | 18.1 | 27.2 |

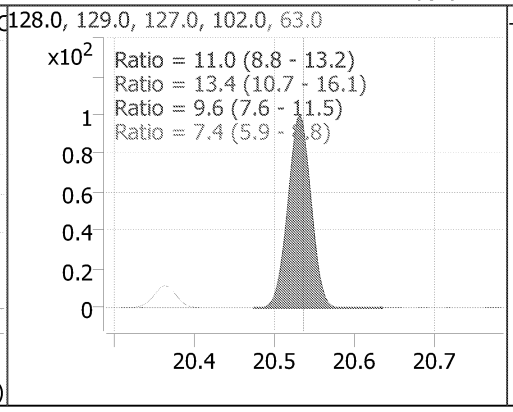


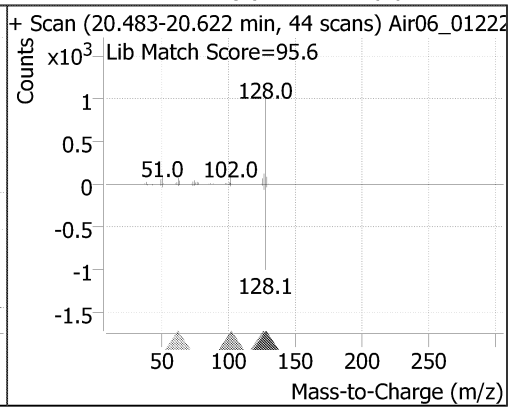



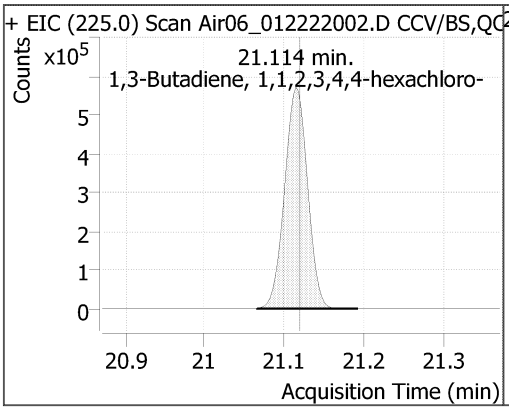

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 9.6302 | 20.53 | -0.01 | 2318678 | 127.0 | 13.4 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.6 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.4 | 5.9 | 8.8 |

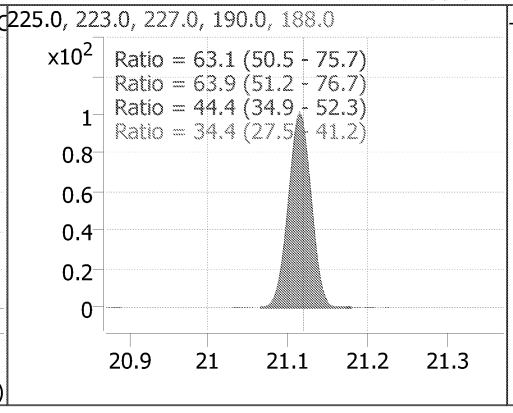


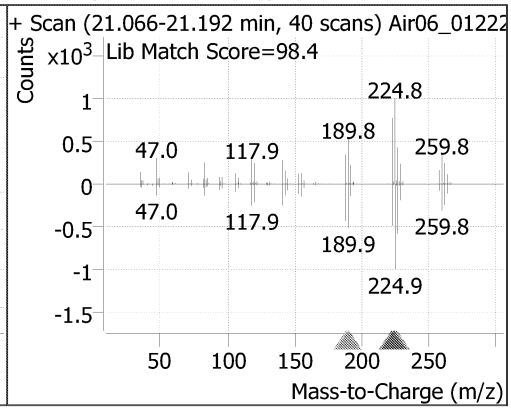




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 9.1550 | 21.11 | -0.01 | 1144378 | 227.0 | 63.9 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.1 | 50.5 | 75.7 |
| | | | | | 190.0 | 44.4 | 34.9 | 52.3 |
| | | | | | 188.0 | 34.4 | 27.5 | 41.2 |

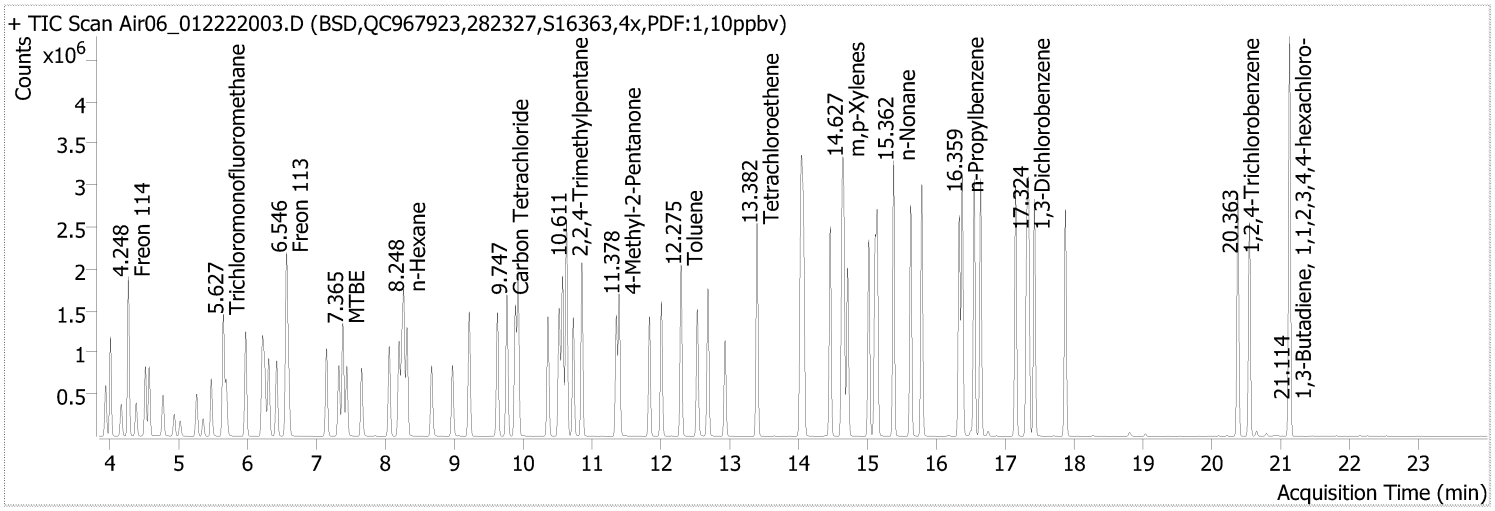


# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012222003.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/22/2022 12:04:26 PM |
| Sample Name | BSD,QC967923,282327,S16363,4x,PDF:1,10ppbv | Instrument | Air-MS-06 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 22 1015 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



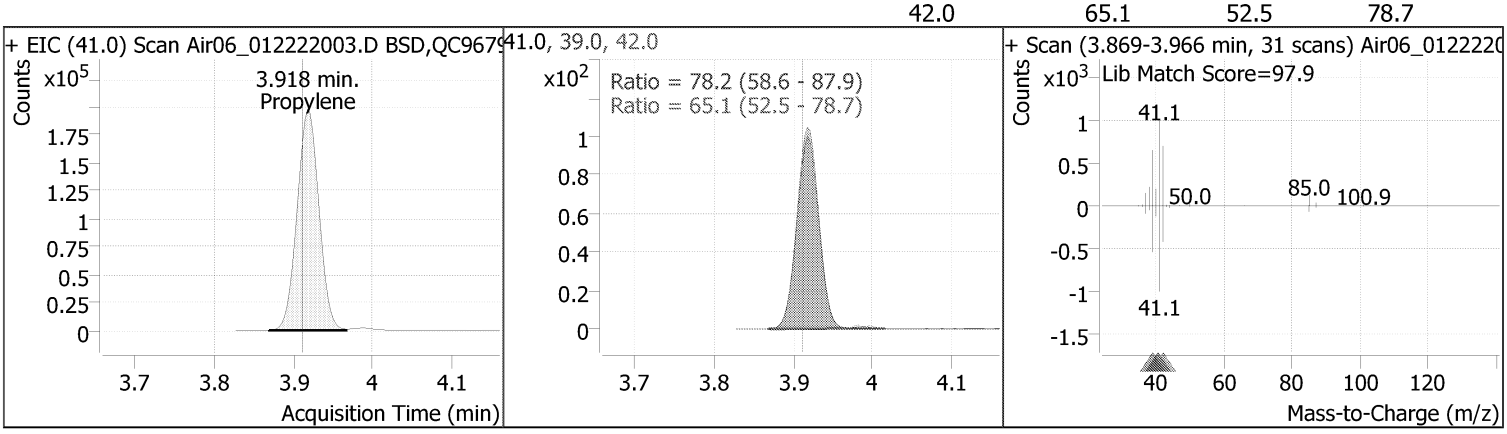

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 378637 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1547443 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 813621 | 10.0000 | nL/L | | 0.000 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1075870 | 10.0556 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 100.56% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.918 | 41.0 | 378789 | 10.1553 | nL/L | | 97 |
| T Freon 12 | 3.989 | 85.0 | 1094560 | 11.0924 | nL/L | | 98 |
| T Chloromethane | 4.144 | 50.0 | 465753 | 10.0450 | nL/L | | 100 |
| T Freon 114 | 4.248 | 135.0 | 711916 | 10.2265 | nL/L | | 99 |
| T Vinyl Chloride | 4.361 | 62.0 | 459789 | 9.9139 | nL/L | | 100 |
| T 1,3-Butadiene | 4.497 | 54.0 | 412137 | 10.3765 | nL/L | | 98 |
| T Butane | 4.552 | 43.0 | 816512 | 10.5917 | nL/L | | 99 |
| T Bromomethane | 4.753 | 96.0 | 345689 | 10.1237 | nL/L | | 100 |
| T Chloroethane | 4.914 | 64.0 | 231315 | 10.1178 | nL/L | | 97 |
| T Ethanol | 4.999 | 45.0 | 220300 | 9.6482 | nL/L | | 98 |
| T Vinyl bromide | 5.241 | 108.0 | 380232 | 9.4891 | nL/L | | 99 |
| T Acrolein | 5.332 | 56.0 | 188056 | 9.3360 | nL/L | # | 99 |
| T Acetone | 5.452 | 58.0 | 231429 | 9.7249 | nL/L | # | 81 |
| T Trichloromonofluoromethane | 5.627 | 101.0 | 1274570 | 10.9589 | nL/L | | 100 |
| T Isopropanol (IPA) | 5.669 | 45.0 | 905766 | 10.6286 | nL/L | | 97 |
| T n-Pentane | 5.953 | 43.0 | 913513 | 9.5899 | nL/L | | 98 |
| T 1,1-Dichloroethene | 6.196 | 61.0 | 887827 | 10.2537 | nL/L | | 98 |
| T Tert-butyl alcohol (TBA) | 6.225 | 59.0 | 1022920 | 10.3724 | nL/L | | 96 |
| T Methylene Chloride | 6.287 | 84.0 | 383907 | 9.1635 | nL/L | | 99 |
| T 3-Chloropropene | 6.403 | 76.0 | 180930 | 9.3683 | nL/L | | 100 |
| T Freon 113 | 6.546 | 101.0 | 925549 | 9.9021 | nL/L | | 98 |
| T Carbon Disulfide | 6.575 | 76.0 | 1147063 | 9.4731 | nL/L | # | 94 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.125 | 61.0 | 713280 | 9.8360 | nL/L | | 98 |
| T 1,1-Dichloroethane | 7.306 | 63.0 | 884273 | 9.9311 | nL/L | | 100 |
| T MTBE | 7.365 | 73.0 | 1208230 | 10.2401 | nL/L | | 99 |
| T Vinyl Acetate | 7.420 | 43.0 | 1356544 | 9.0792 | nL/L | | 100 |
| T 2-Butanone | 7.637 | 43.0 | 1152294 | 10.0110 | nL/L | | 95 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 734497 | 10.0140 | nL/L | | 98 |
| T Ethyl Acetate | 8.219 | 61.0 | 166905 | 9.2360 | nL/L | | 88 |
| T n-Hexane | 8.248 | 57.0 | 776632 | 9.3578 | nL/L | | 95 |
| T Chloroform | 8.294 | 83.0 | 974527 | 10.4132 | nL/L | | 97 |
| T Tetrahydrofuran | 8.653 | 72.0 | 196072 | 9.4982 | nL/L | | 96 |
| T 1,2-Dichloroethane | 8.957 | 62.0 | 751095 | 10.9606 | nL/L | | 98 |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 971103 | 10.7276 | nL/L | | 98 |
| T Benzene | 9.608 | 78.0 | 1271116 | 9.4219 | nL/L | | 98 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 1036072 | 10.7282 | nL/L | # | 98 |
| T Cyclohexane | 9.870 | 84.0 | 517649 | 9.1839 | nL/L | | 96 |
| T 1,2-Dichloropropane | 10.342 | 63.0 | 559103 | 8.8209 | nL/L | | 96 |
| T Methane, bromodichloro- | 10.504 | 83.0 | 1011611 | 9.7811 | nL/L | | 98 |
| T 1,4-Dioxane | 10.537 | 88.0 | 288121 | 8.7108 | nL/L | | 98 |
| T Trichloroethene | 10.556 | 132.0 | 562632 | 8.7258 | nL/L | | 99 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 2504154 | 8.6810 | nL/L | | 97 |
| T Methyl methacrylate | 10.711 | 69.0 | 488647 | 9.0818 | nL/L | | 92 |
| T n-Heptane | 10.838 | 71.0 | 437135 | 8.7724 | nL/L | | 89 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 174057 | 8.6504 | nL/L | | 95 |
| T 4-Methyl-2-Pentanone | 11.378 | 58.0 | 479295 | 8.6215 | nL/L | | 93 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 179747 | 8.7129 | nL/L | # | 94 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 539854 | 8.9436 | nL/L | | 98 |
| T Toluene | 12.275 | 91.0 | 1602543 | 8.7372 | nL/L | | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 236546930 | 18.0486 | nL/L | | 100 |
| T 2-Hexanone | 12.511 | 58.0 | 637637 | 8.9302 | nL/L | | 93 |
| T Dibromochloromethane | 12.666 | 129.0 | 1031396 | 9.4122 | nL/L | | 99 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 845867 | 9.1087 | nL/L | | 99 |
| T Tetrachloroethene | 13.382 | 166.0 | 815044 | 8.5951 | nL/L | | 96 |
| T 1,1,1,2-Tetrachloroethane | 14.032 | 131.0 | 668589 | 9.5224 | nL/L | | 98 |
| T Benzene, chloro- | 14.058 | 112.0 | 1247619 | 8.9544 | nL/L | | 98 |
| T Ethylbenzene | 14.443 | 91.0 | 2034285 | 9.1901 | nL/L | | 99 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 180001213 | 18.8034 | nL/L | | 100 |
| T m,p-Xylenes | 14.627 | 91.0 | 3329347 | 18.7017 | nL/L | | 99 |
| T Bromoform | 14.696 | 173.0 | 1144501 | 9.3863 | nL/L | # | 98 |
| T Styrene | 15.003 | 104.0 | 1261913 | 8.9448 | nL/L | | 99 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 1254828 | 9.3277 | nL/L | | 99 |
| T o-Xylene | 15.126 | 91.0 | 1703459 | 9.3070 | nL/L | | 99 |
| T n-Nonane | 15.362 | 85.0 | 381639 | 9.0255 | nL/L | | 100 |
| T Isopropylbenzene | 15.774 | 105.0 | 2306846 | 9.1944 | nL/L | | 99 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 570064 | 8.9207 | nL/L | | 96 |
| T n-Propylbenzene | 16.359 | 120.0 | 628964 | 8.9722 | nL/L | | 95 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 2319613 | 9.3425 | nL/L | | 98 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 2021619 | 9.4057 | nL/L | | 99 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 2004647 | 9.3904 | nL/L | | 99 |
| T Benzyl chloride | 17.295 | 91.0 | 1853952 | 9.8768 | nL/L | | 98 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 1340729 | 9.1563 | nL/L | | 98 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 1354765 | 9.1497 | nL/L | | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 1292547 | 9.0504 | nL/L | | 99 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1115873 | 9.4820 | nL/L | | 99 |
| T Naphthalene | 20.531 | 128.0 | 2372557 | 9.7404 | nL/L | | 100 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.114 | 225.0 | 1149823 | 9.0925 | nL/L | | 100 |

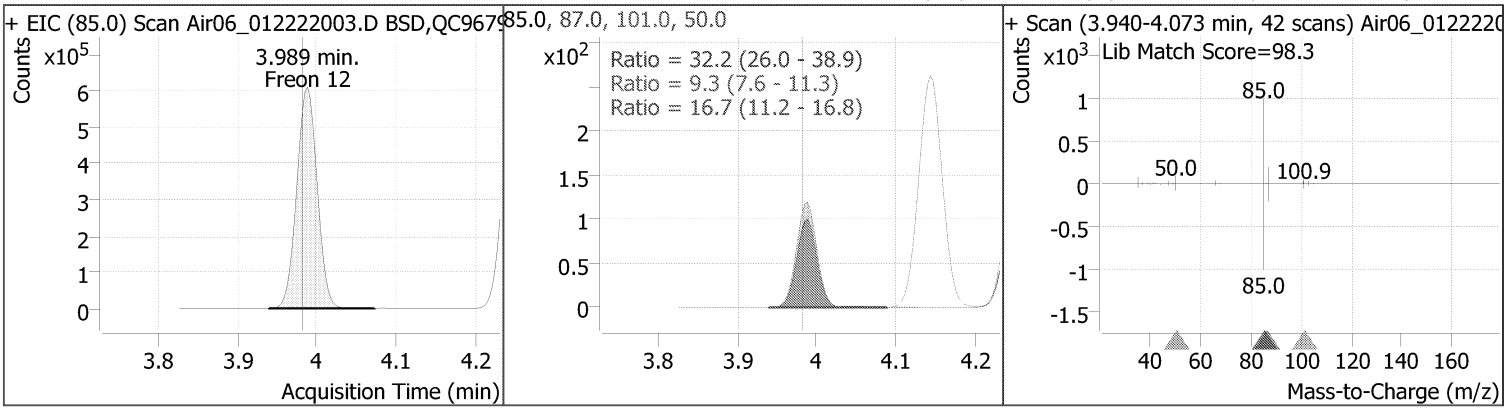
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

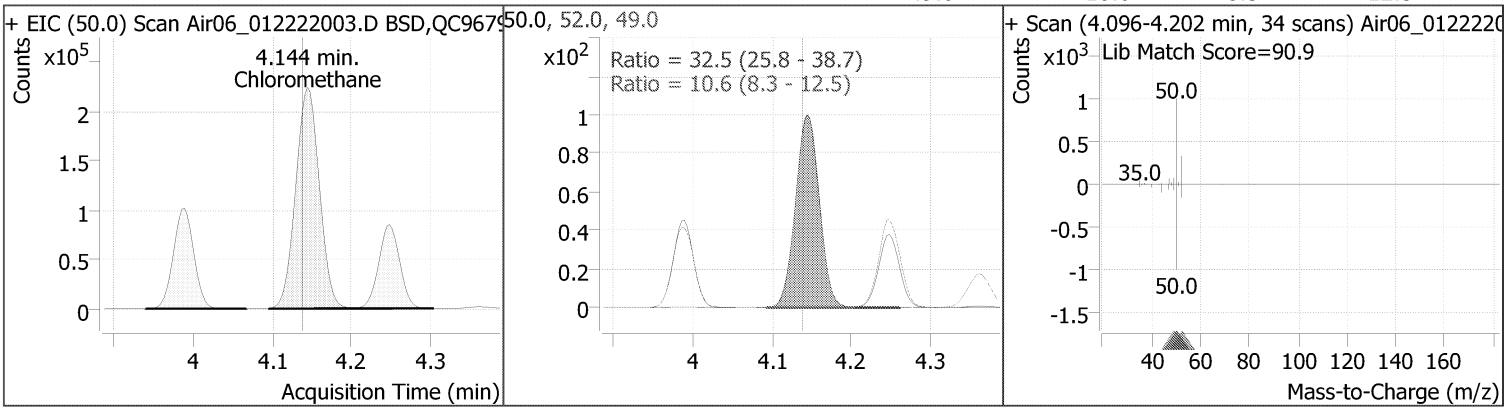
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 10.1553 | 3.92 | 0.01 | 378789 | 39.0 | 78.2 | 58.6 | 87.9 |
| | | | | | 42.0 | 65.1 | 52.5 | 78.7 |



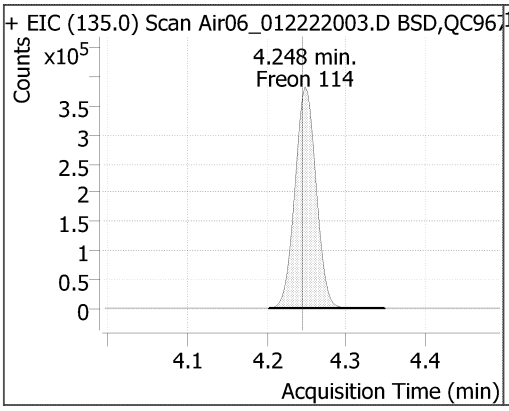

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 11.0924 | 3.99 | 0.01 | 1094560 | 87.0 | 32.2 | 26.0 | 38.9 |
| | | | | | 50.0 | 16.7 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.3 | 7.6 | 11.3 |

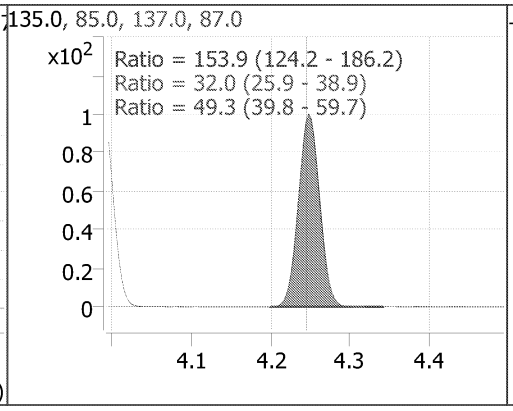


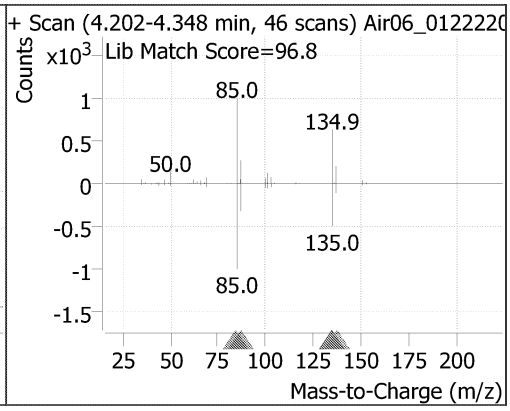

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0450 | 4.14 | 0.01 | 465753 | 52.0 | 32.5 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.6 | 8.3 | 12.5 |



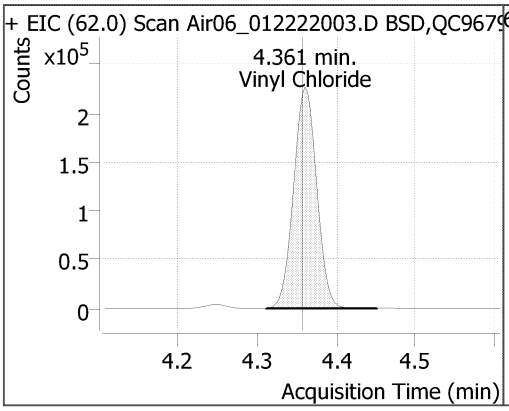
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 10.2265 | 4.25 | 0.01 | 711916 | 85.0 | 153.9 | 124.2 | 186.2 |
| | | | | | 87.0 | 49.3 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.0 | 25.9 | 38.9 |

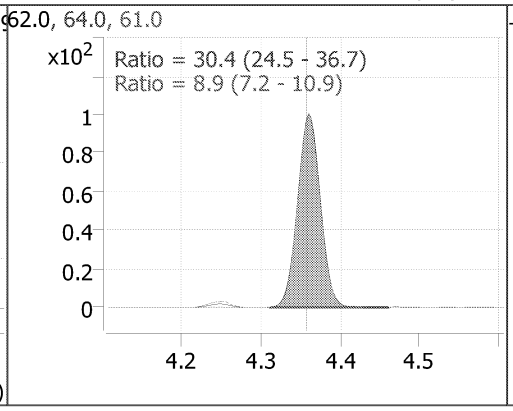


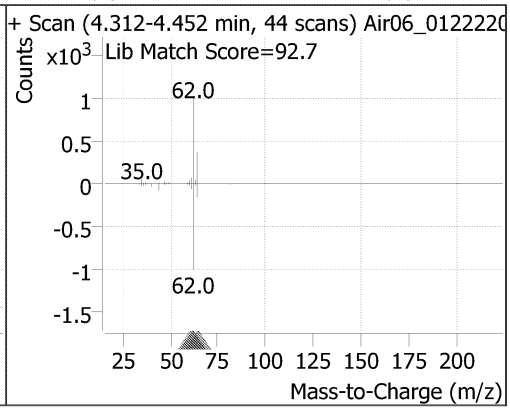



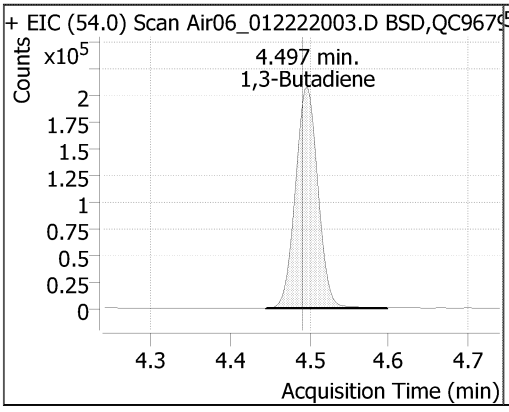

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 9.9139 | 4.36 | 0.01 | 459789 | 64.0 | 30.4 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.9 | 7.2 | 10.9 |

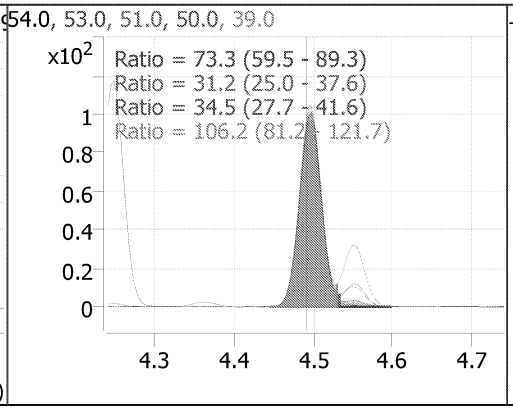


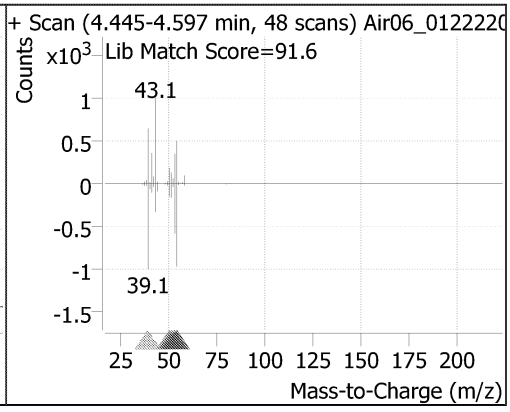



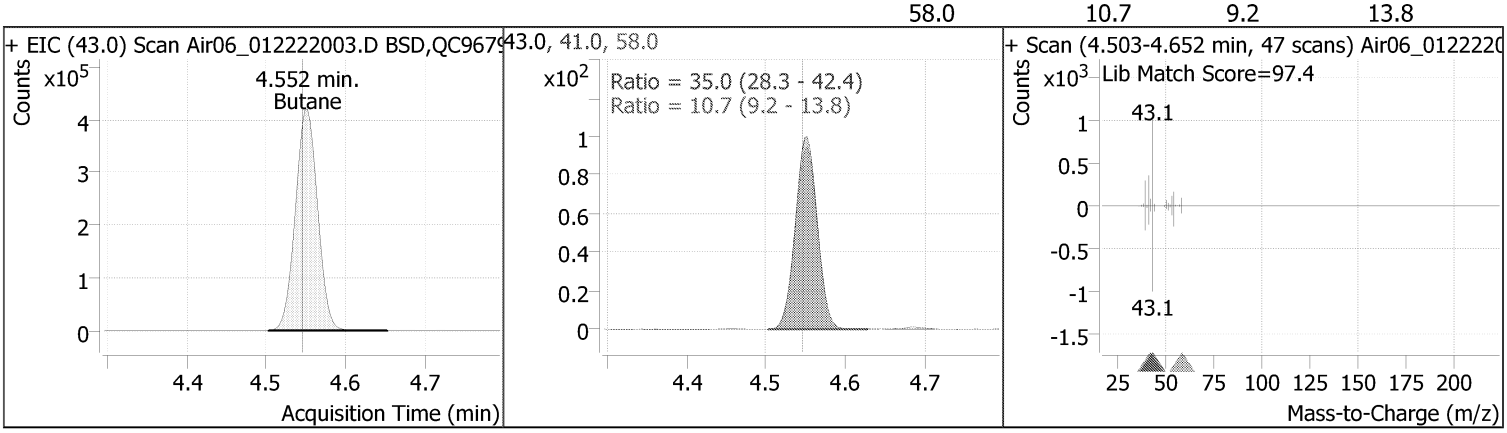

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 10.3765 | 4.50 | 0.01 | 412137 | 39.0 | 106.2 | 81.2 | 121.7 |
| | | | | | 53.0 | 73.3 | 59.5 | 89.3 |
| | | | | | 50.0 | 34.5 | 27.7 | 41.6 |
| | | | | | 51.0 | 31.2 | 25.0 | 37.6 |



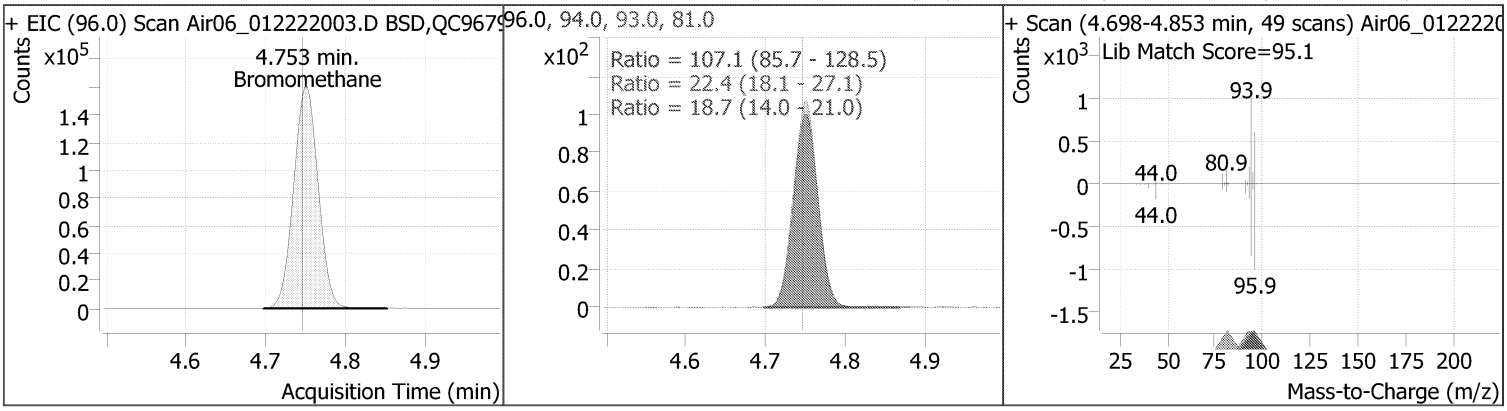



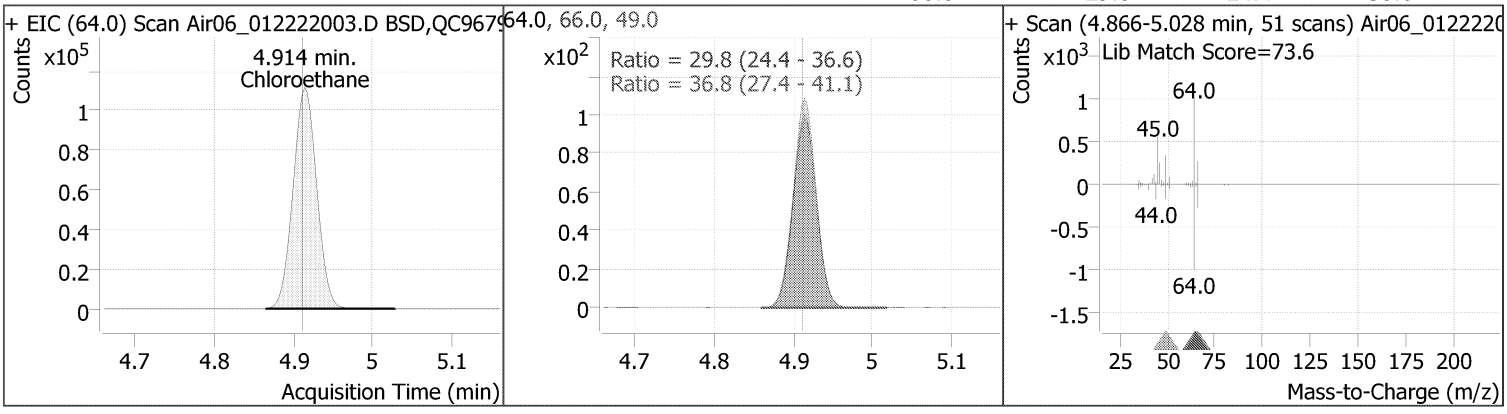
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 10.5917 | 4.55 | 0.01 | 816512 | 41.0 | 35.0 | 28.3 | 42.4 |
| | | | | | 58.0 | 10.7 | 9.2 | 13.8 |



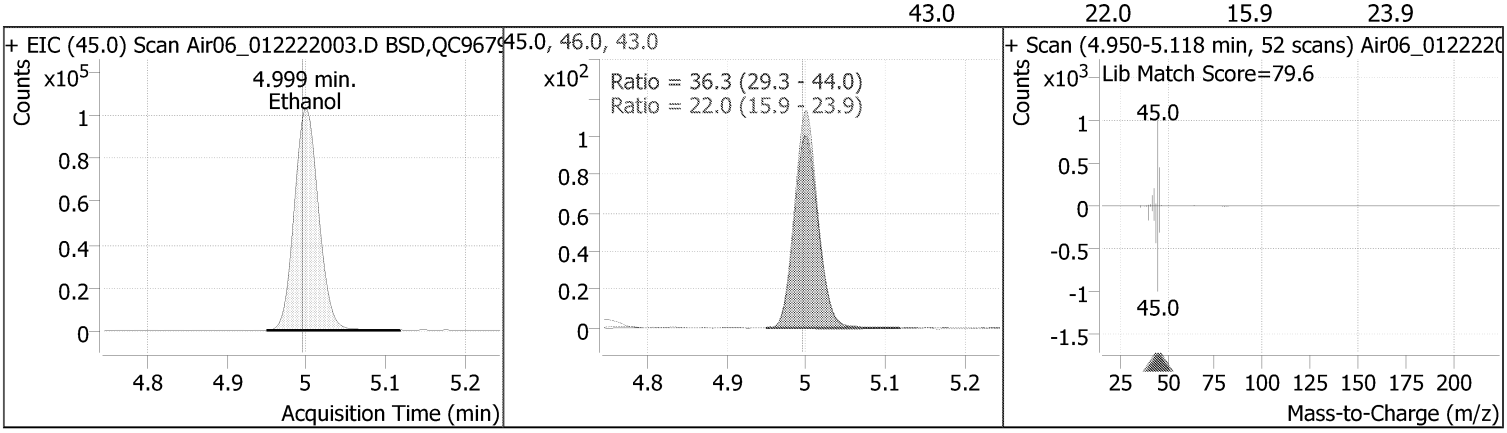

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 10.1237 | 4.75 | 0.01 | 345689 | 94.0 | 107.1 | 85.7 | 128.5 |
| | | | | | 93.0 | 22.4 | 18.1 | 27.1 |
| | | | | | 81.0 | 18.7 | 14.0 | 21.0 |



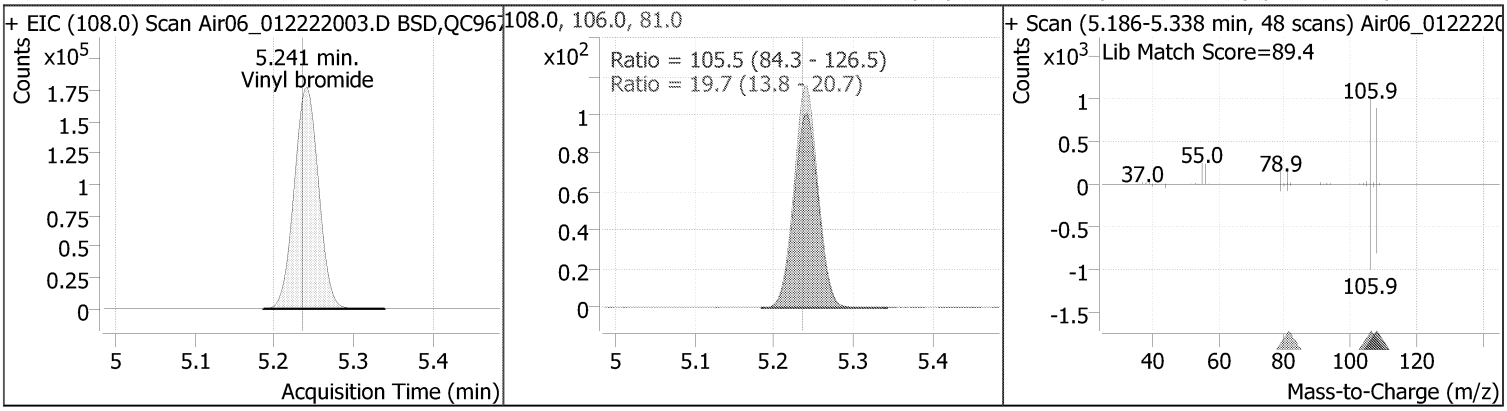

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.1178 | 4.91 | 0.01 | 231315 | 49.0 | 36.8 | 27.4 | 41.1 |
| | | | | | 66.0 | 29.8 | 24.4 | 36.6 |



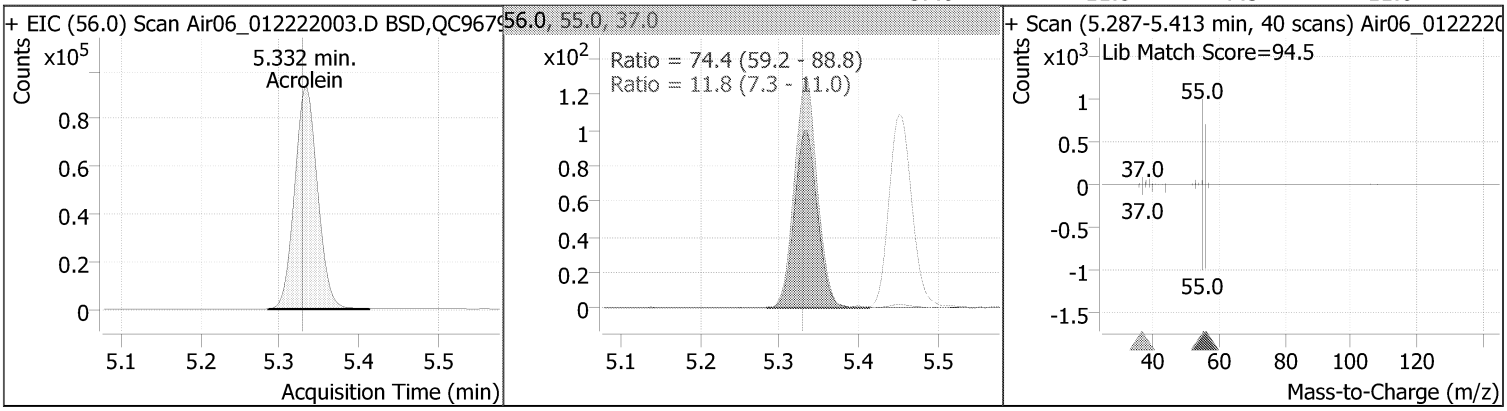
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 9.6482 | 5.00 | 0.01 | 220300 | 46.0 | 36.3 | 29.3 | 44.0 |
| | | | | | 43.0 | 22.0 | 15.9 | 23.9 |



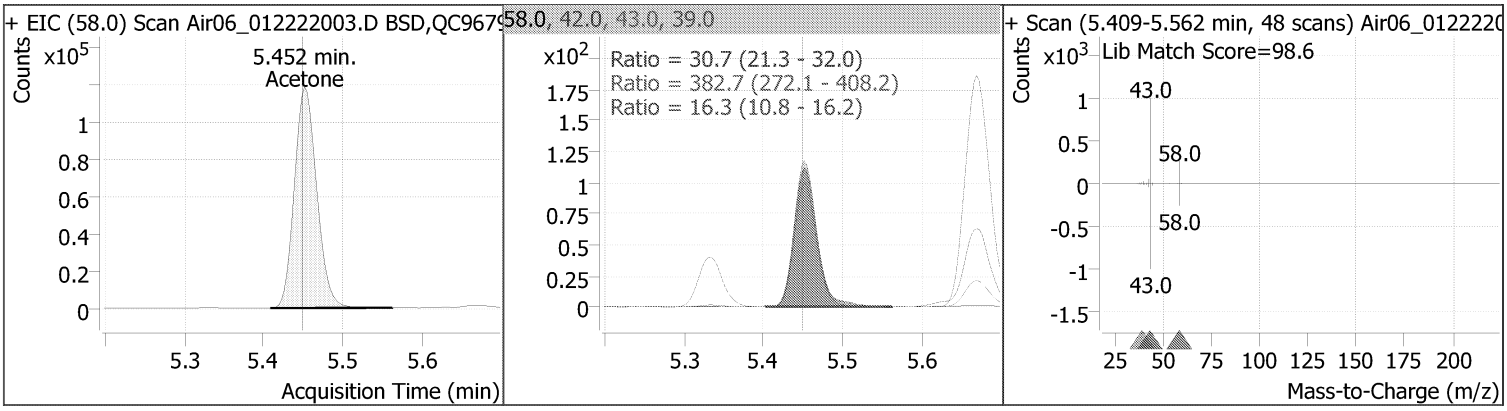

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 9.4891 | 5.24 | 0.01 | 380232 | 106.0 | 105.5 | 84.3 | 126.5 |
| | | | | | 81.0 | 19.7 | 13.8 | 20.7 |



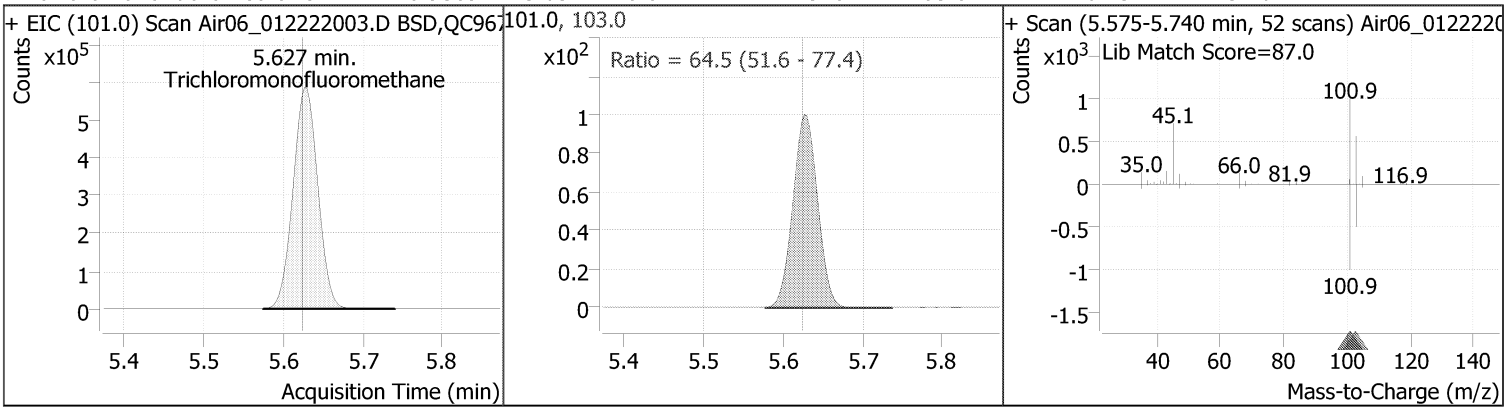

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 9.3360 | 5.33 | 0.01 | 188056 | 55.0 | 74.4 | 59.2 | 88.8 |
| | | | | | 37.0 | 11.8 | 7.3 | 11.0 |



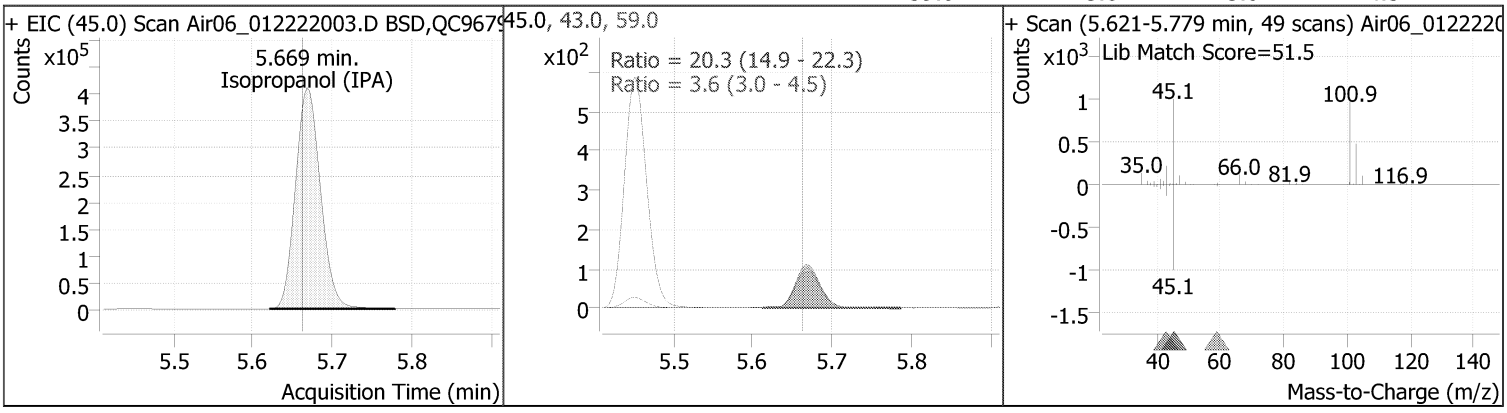
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 9.7249 | 5.45 | 0.01 | 231429 | 43.0 | 382.7 | 272.1 | 408.2 |
| | | | | | 42.0 | 30.7 | 21.3 | 32.0 |
| | | | | | 39.0 | 16.3 | 10.8 | 16.2 |



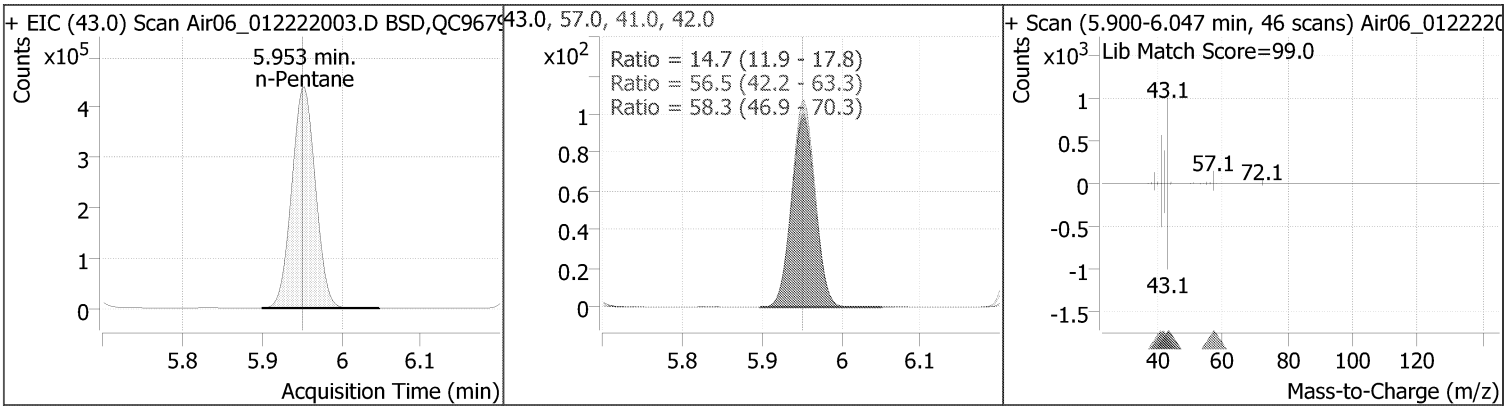

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 10.9589 | 5.63 | 0.01 | 1274570 | 103.0 | 64.5 | 51.6 | 77.4 |



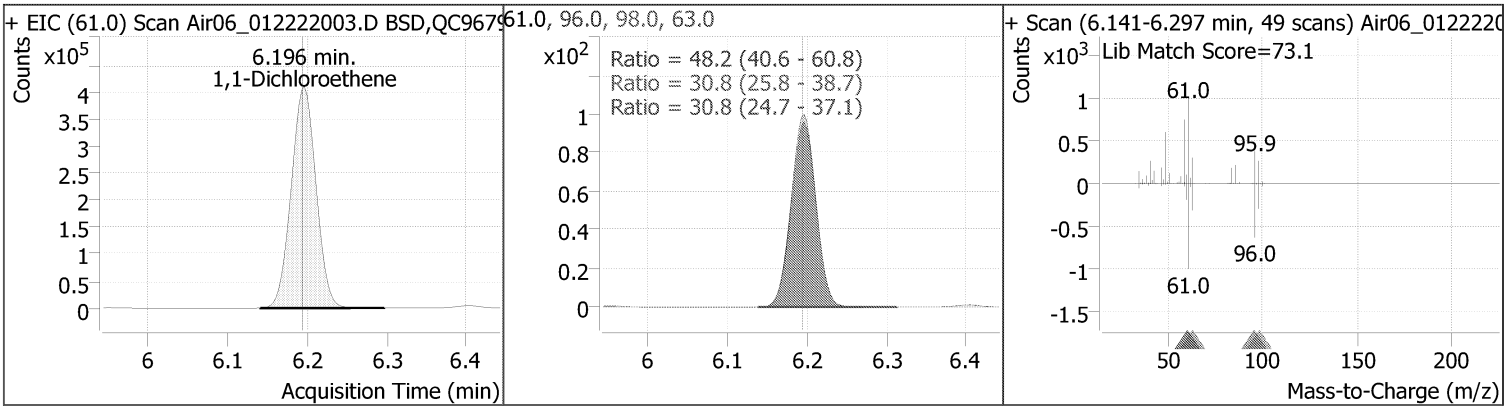

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 10.6286 | 5.67 | 0.01 | 905766 | 43.0 | 20.3 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.6 | 3.0 | 4.5 |



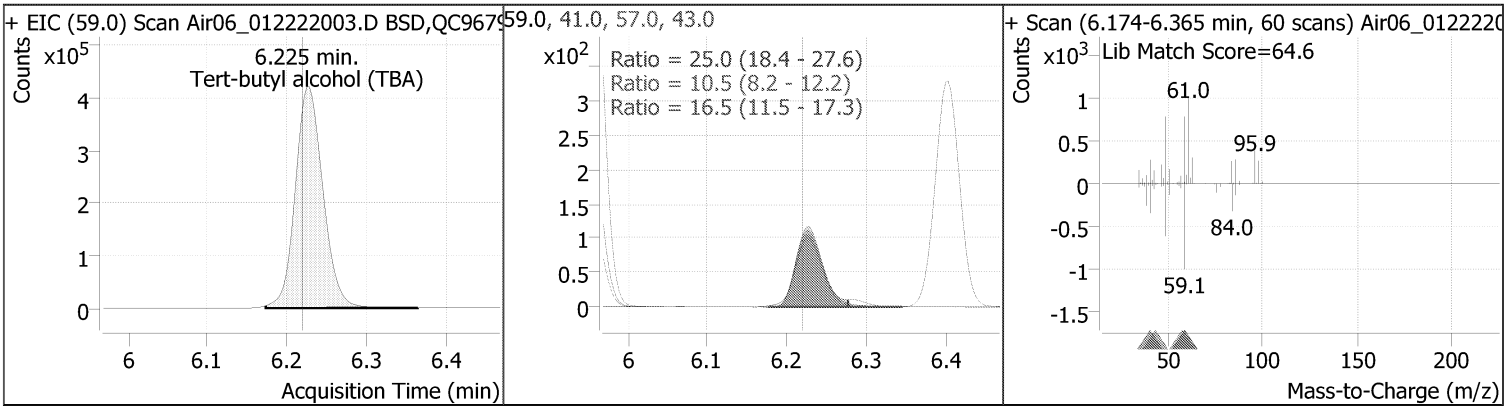
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 9.5899 | 5.95 | 0.01 | 913513 | 42.0 | 58.3 | 46.9 | 70.3 |
| | | | | | 41.0 | 56.5 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.7 | 11.9 | 17.8 |



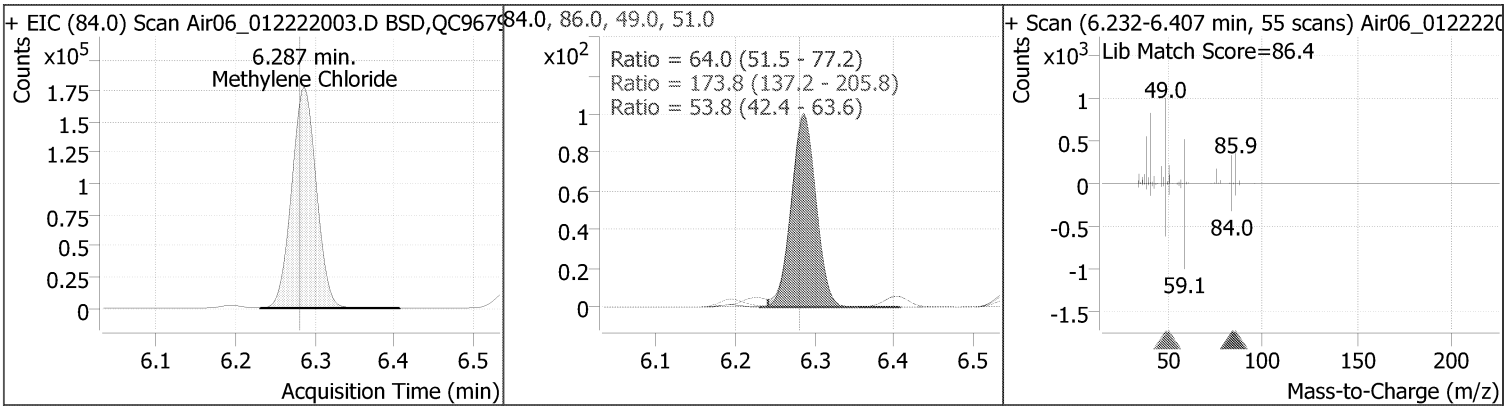

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 10.2537 | 6.20 | 0.01 | 887827 | 96.0 | 48.2 | 40.6 | 60.8 |
| | | | | | 98.0 | 30.8 | 25.8 | 38.7 |
| | | | | | 63.0 | 30.8 | 24.7 | 37.1 |



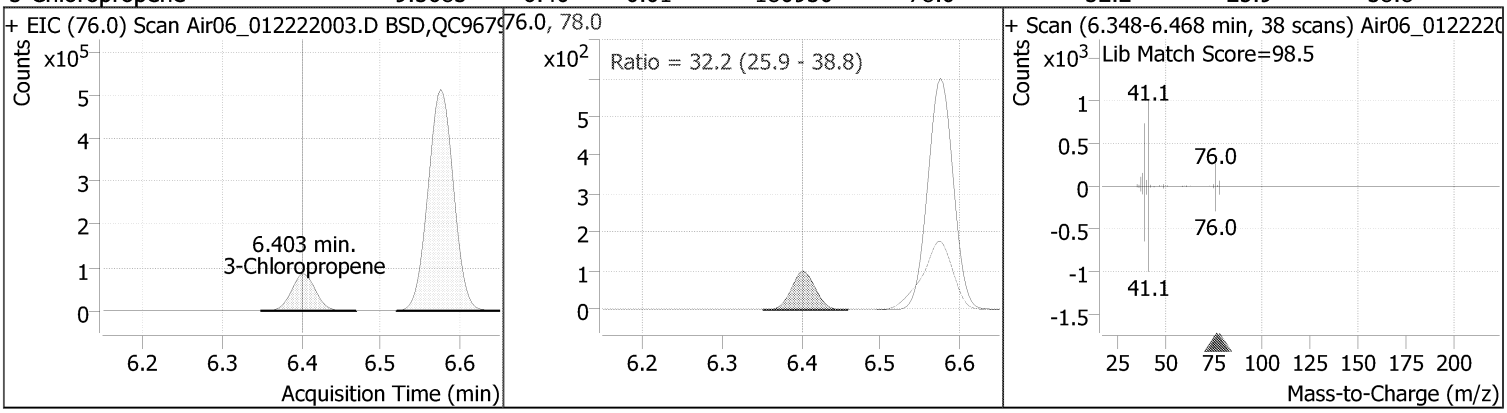

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 10.3724 | 6.23 | 0.01 | 1022920 | 41.0 | 25.0 | 18.4 | 27.6 |
| | | | | | 43.0 | 16.5 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.5 | 8.2 | 12.2 |



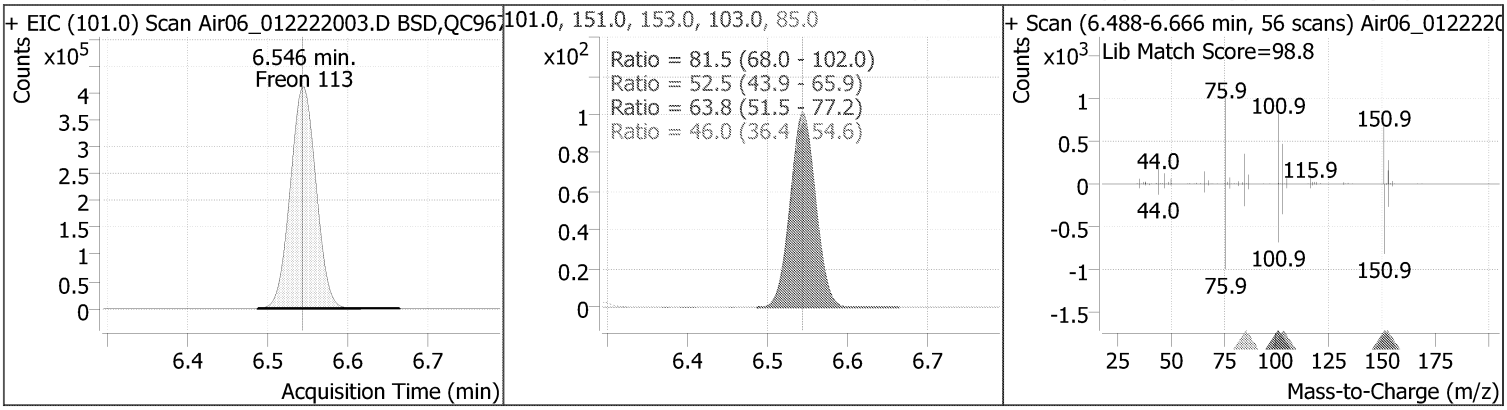
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 9.1635 | 6.29 | 0.01 | 383907 | 49.0 | 173.8 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.0 | 51.5 | 77.2 |
| | | | | | 51.0 | 53.8 | 42.4 | 63.6 |



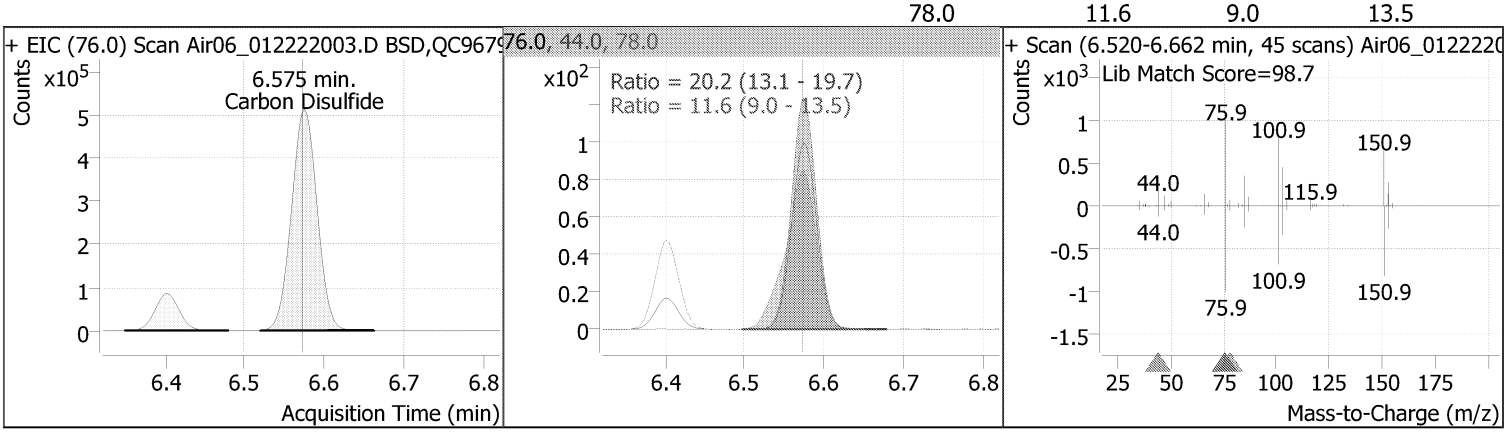

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 9.3683 | 6.40 | 0.01 | 180930 | 78.0 | 32.2 | 25.9 | 38.8 |



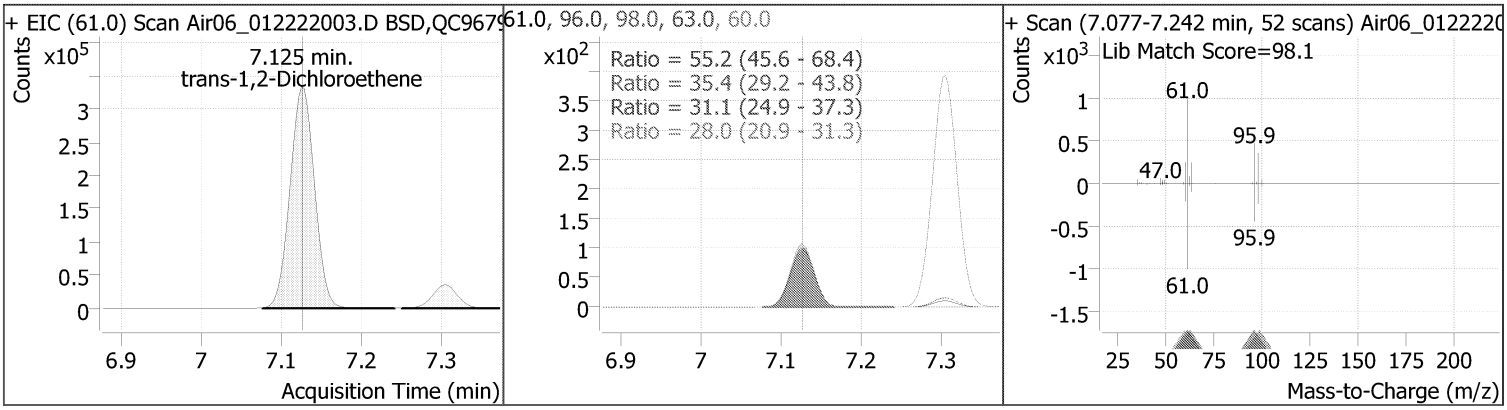

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 9.9021 | 6.55 | 0.01 | 925549 | 151.0 | 81.5 | 68.0 | 102.0 |
| | | | | | 103.0 | 63.8 | 51.5 | 77.2 |
| | | | | | 153.0 | 52.5 | 43.9 | 65.9 |
| | | | | | 85.0 | 46.0 | 36.4 | 54.6 |



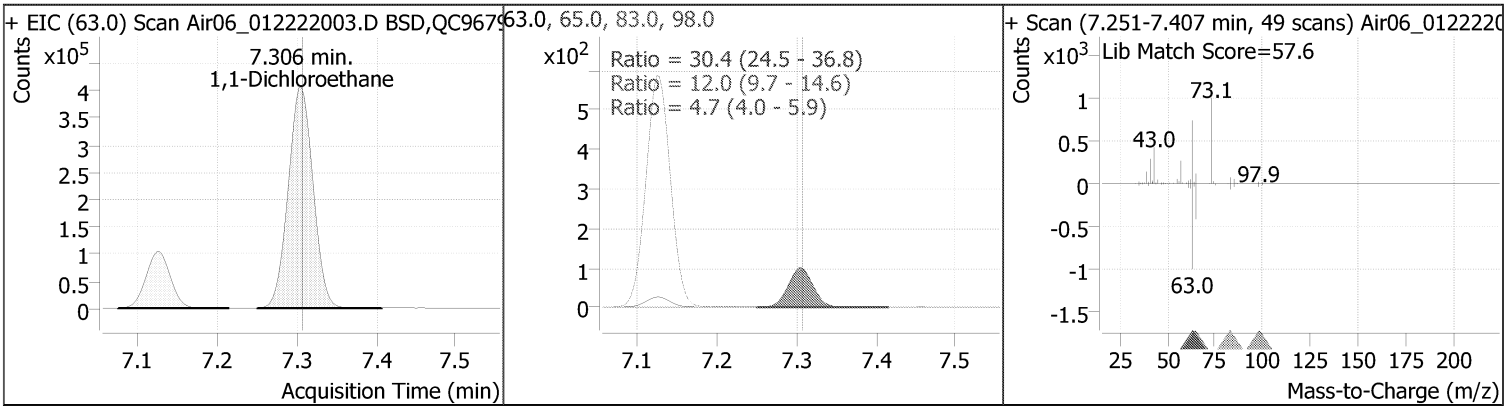
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 9.4731 | 6.57 | 0.01 | 1147063 | 44.0 | 20.2 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.6 | 9.0 | 13.5 |



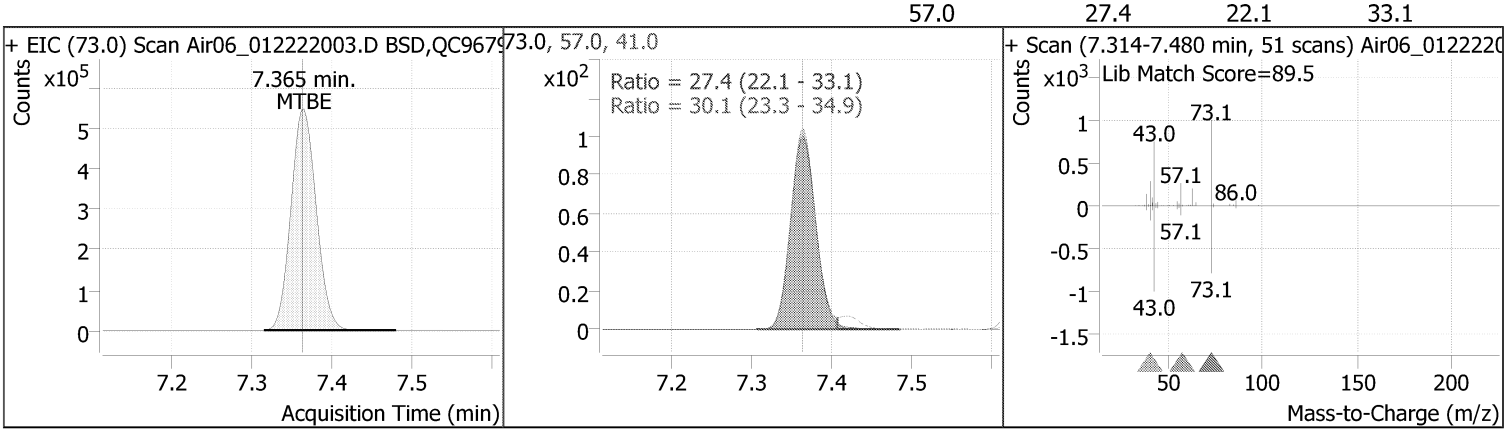

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 9.8360 | 7.13 | 0.00 | 713280 | 96.0 | 55.2 | 45.6 | 68.4 |
| | | | | | 98.0 | 35.4 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.1 | 24.9 | 37.3 |
| | | | | | 60.0 | 28.0 | 20.9 | 31.3 |



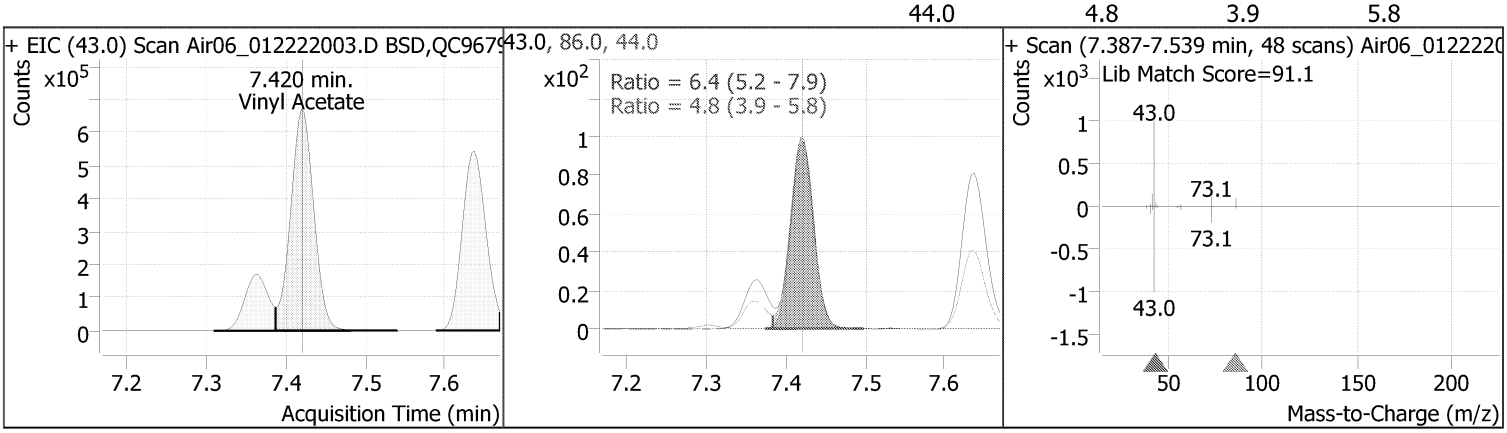

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 9.9311 | 7.31 | 0.00 | 884273 | 65.0 | 30.4 | 24.5 | 36.8 |
| | | | | | 83.0 | 12.0 | 9.7 | 14.6 |
| | | | | | 98.0 | 4.7 | 4.0 | 5.9 |



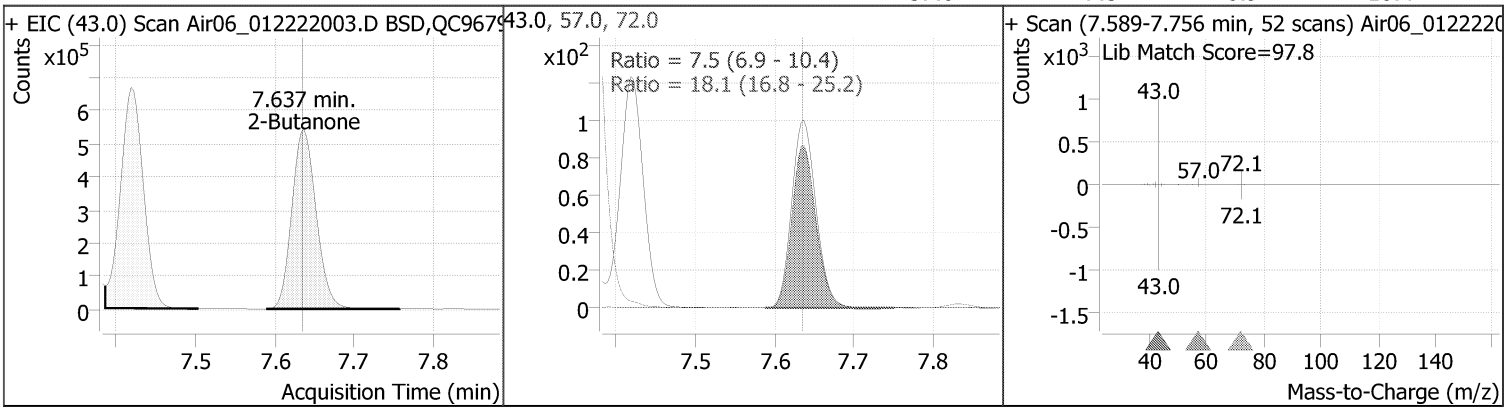
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 10.2401 | 7.36 | 0.01 | 1208230 | 41.0 | 30.1 | 23.3 | 34.9 |
| | | | | | 57.0 | 27.4 | 22.1 | 33.1 |



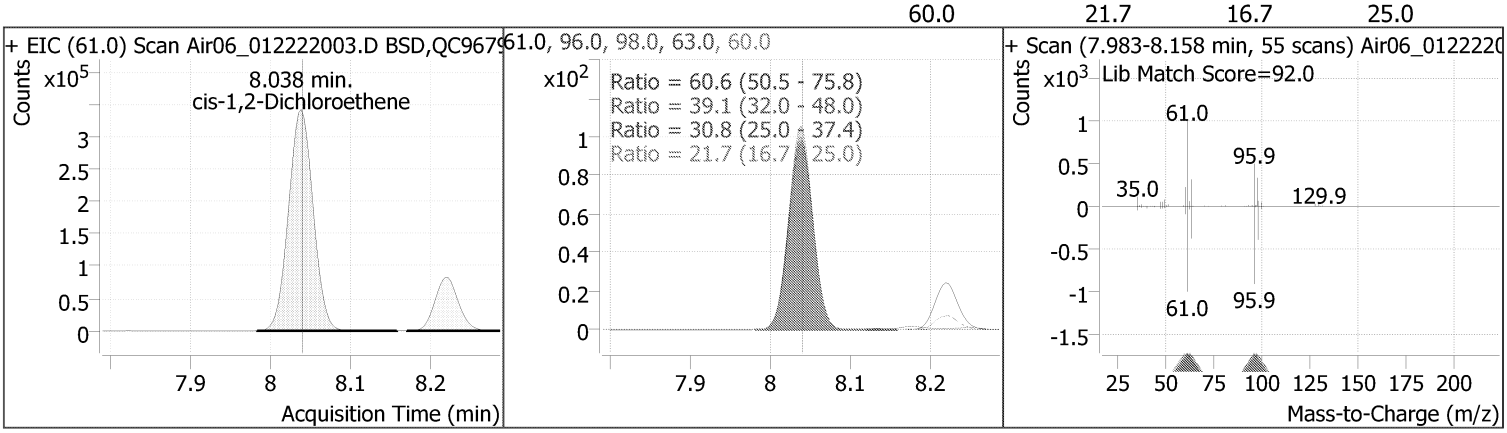

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 9.0792 | 7.42 | 0.00 | 1356544 | 86.0 | 6.4 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.8 | 3.9 | 5.8 |



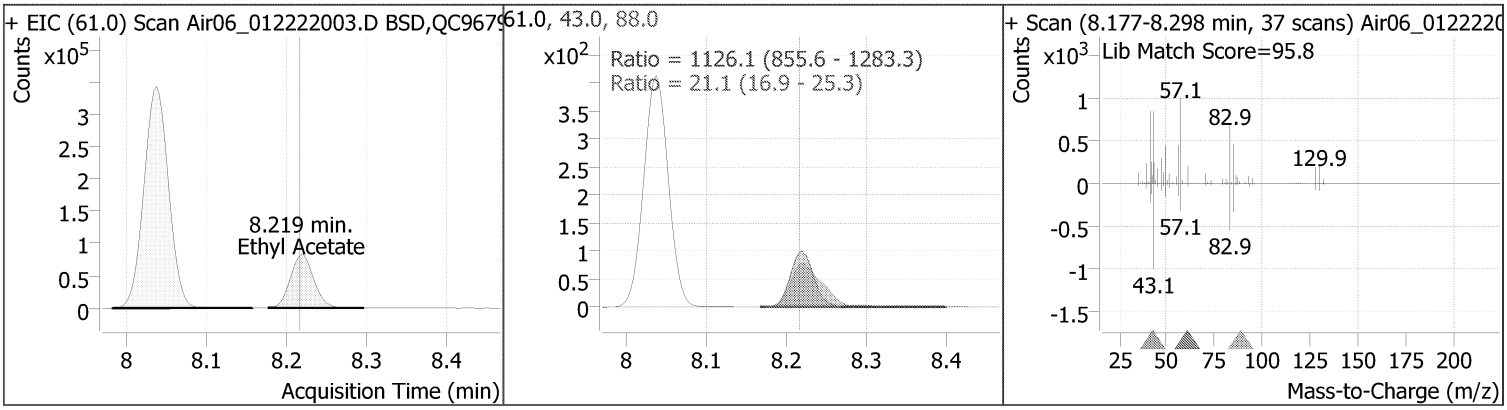

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 10.0110 | 7.64 | 0.01 | 1152294 | 72.0 | 18.1 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.5 | 6.9 | 10.4 |



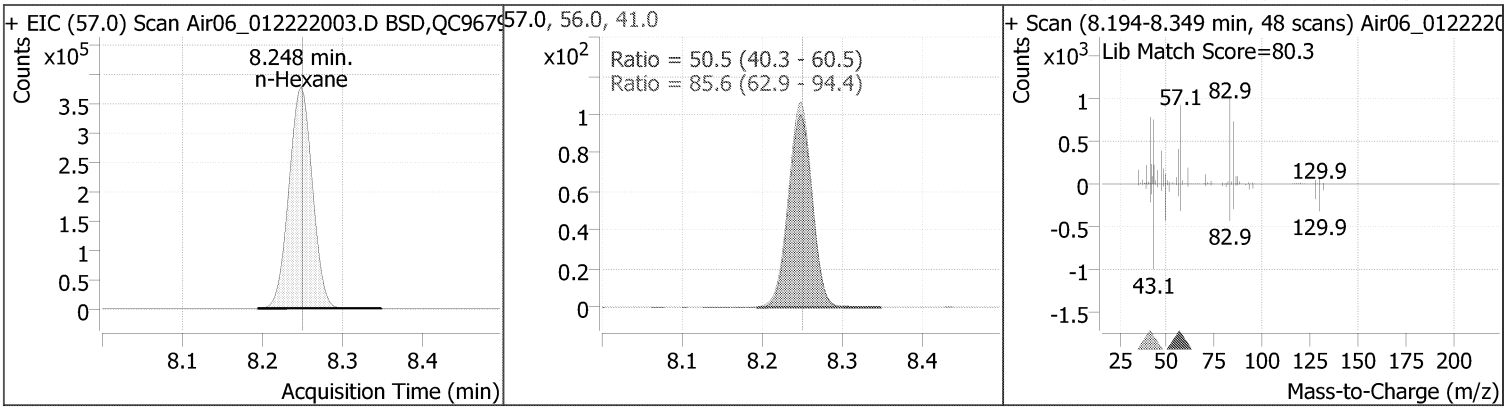
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 10.0140 | 8.04 | 0.00 | 734497 | 96.0 | 60.6 | 50.5 | 75.8 |
| | | | | | 98.0 | 39.1 | 32.0 | 48.0 |
| | | | | | 63.0 | 30.8 | 25.0 | 37.4 |
| | | | | | 60.0 | 21.7 | 16.7 | 25.0 |



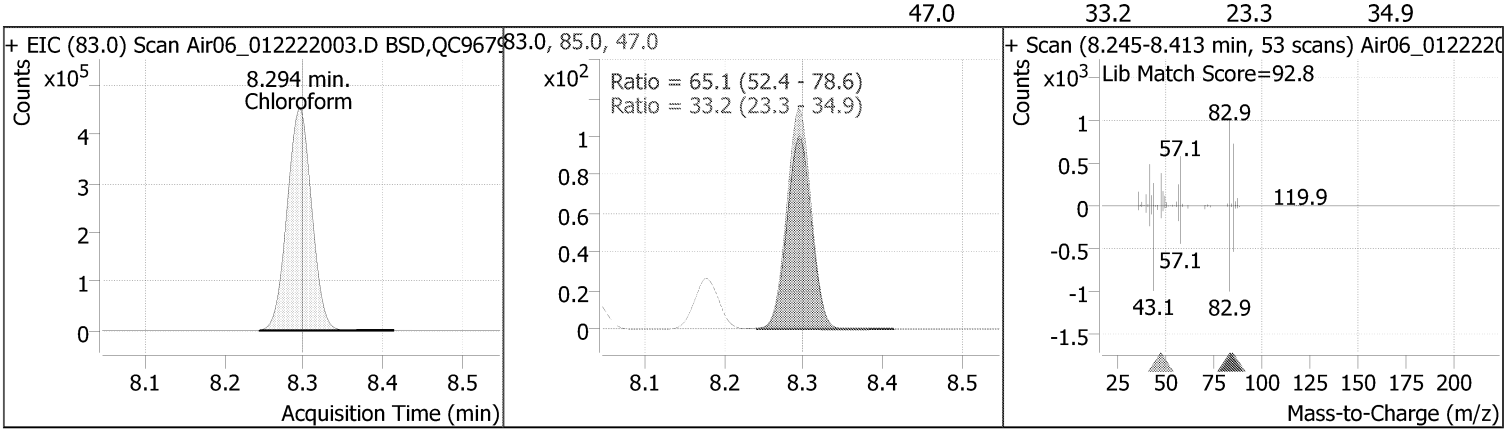

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 9.2360 | 8.22 | 0.00 | 166905 | 43.0 | 1126.1 | 855.6 | 1283.3 |
| | | | | | 88.0 | 21.1 | 16.9 | 25.3 |



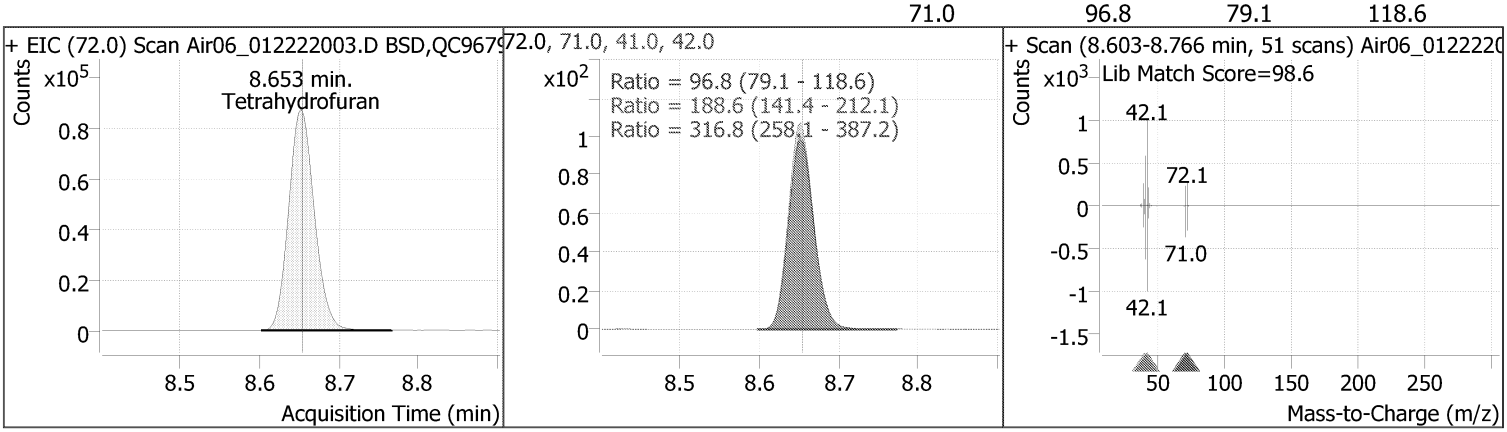

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 9.3578 | 8.25 | 0.00 | 776632 | 41.0 | 85.6 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.5 | 40.3 | 60.5 |



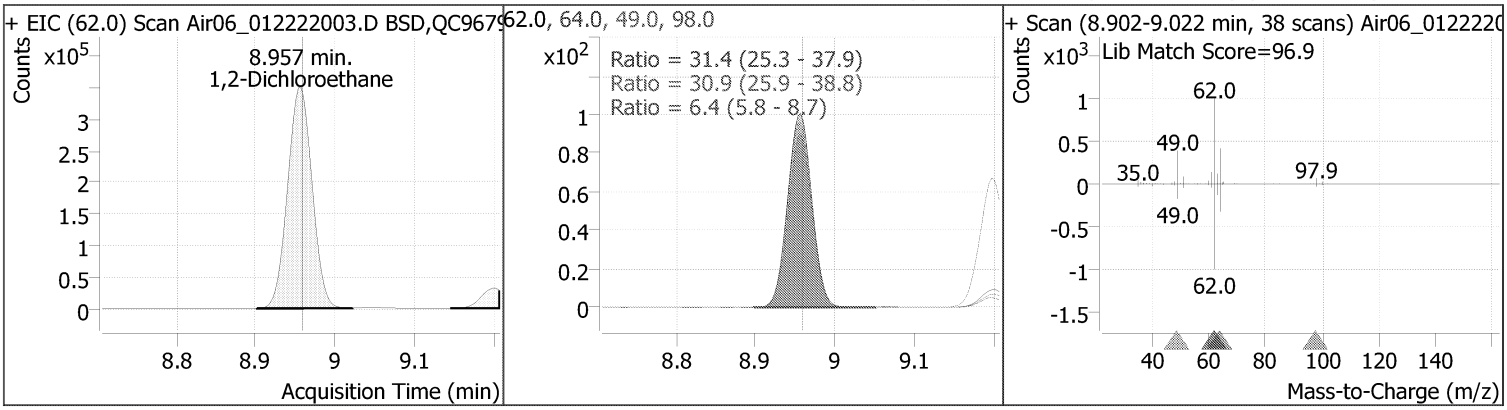
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 10.4132 | 8.29 | 0.00 | 974527 | 85.0 | 65.1 | 52.4 | 78.6 |
| | | | | | 47.0 | 33.2 | 23.3 | 34.9 |



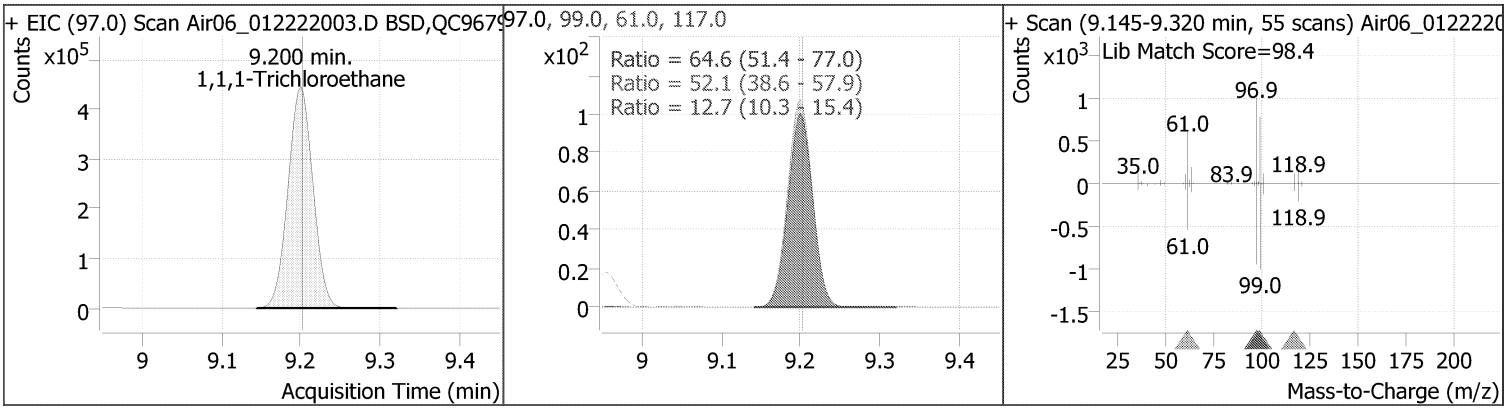

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 9.4982 | 8.65 | 0.00 | 196072 | 42.0 | 316.8 | 258.1 | 387.2 |
| | | | | | 41.0 | 188.6 | 141.4 | 212.1 |
| | | | | | 71.0 | 96.8 | 79.1 | 118.6 |



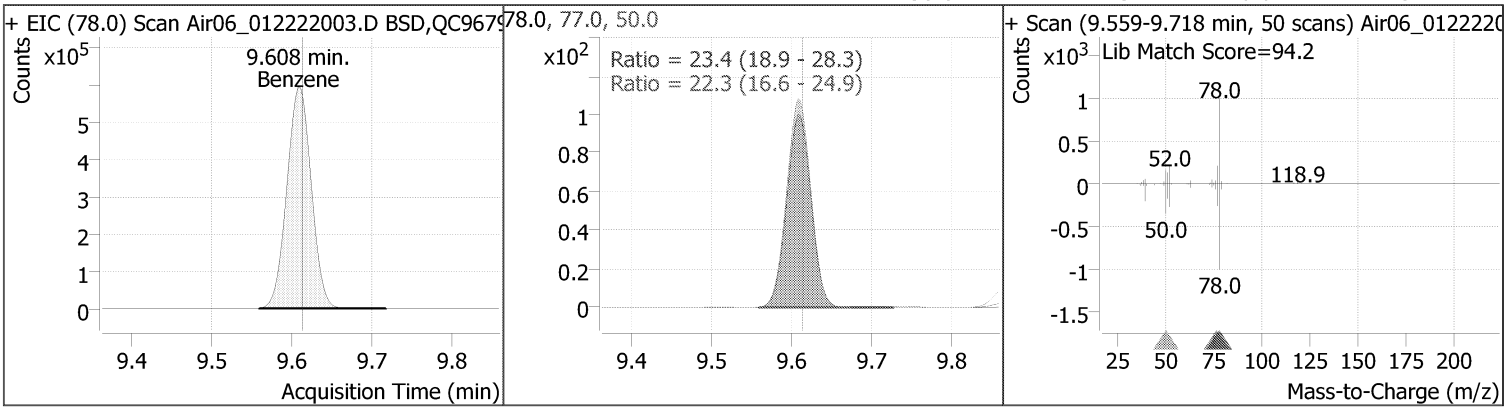

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 10.9606 | 8.96 | 0.00 | 751095 | 49.0 | 30.9 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.4 | 25.3 | 37.9 |
| | | | | | 98.0 | 6.4 | 5.8 | 8.7 |



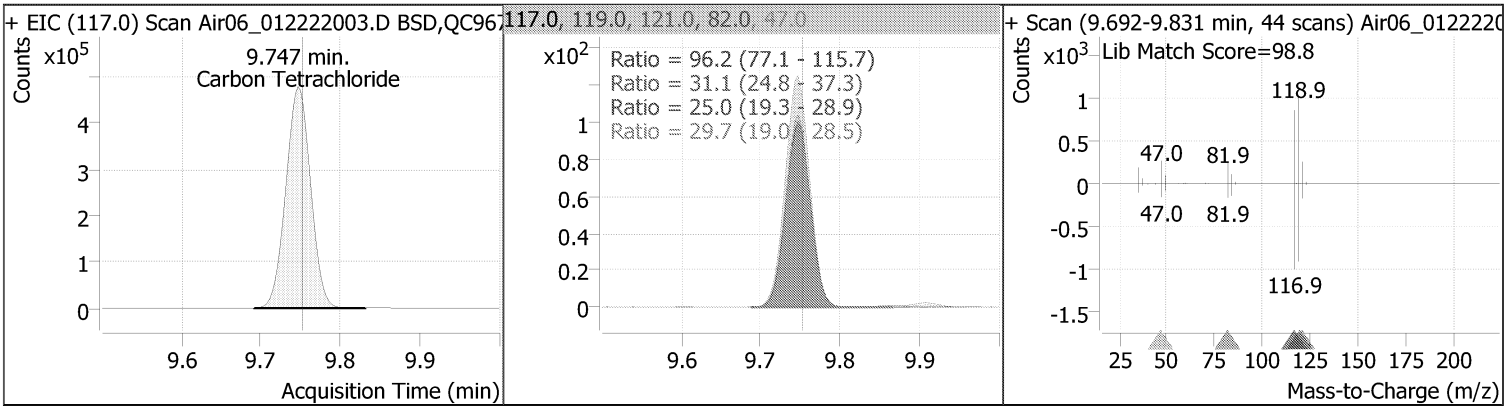
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 10.7276 | 9.20 | 0.00 | 971103 | 99.0 | 64.6 | 51.4 | 77.0 |
| | | | | | 61.0 | 52.1 | 38.6 | 57.9 |
| | | | | | 117.0 | 12.7 | 10.3 | 15.4 |



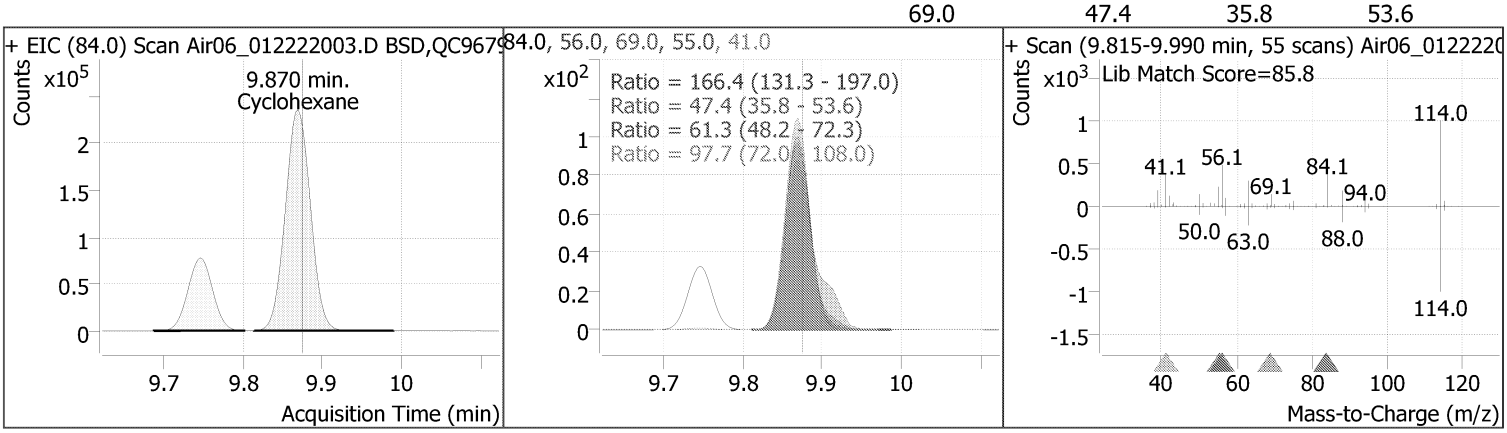

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 9.4219 | 9.61 | 0.00 | 1271116 | 77.0 | 23.4 | 18.9 | 28.3 |
| | | | | | 50.0 | 22.3 | 16.6 | 24.9 |



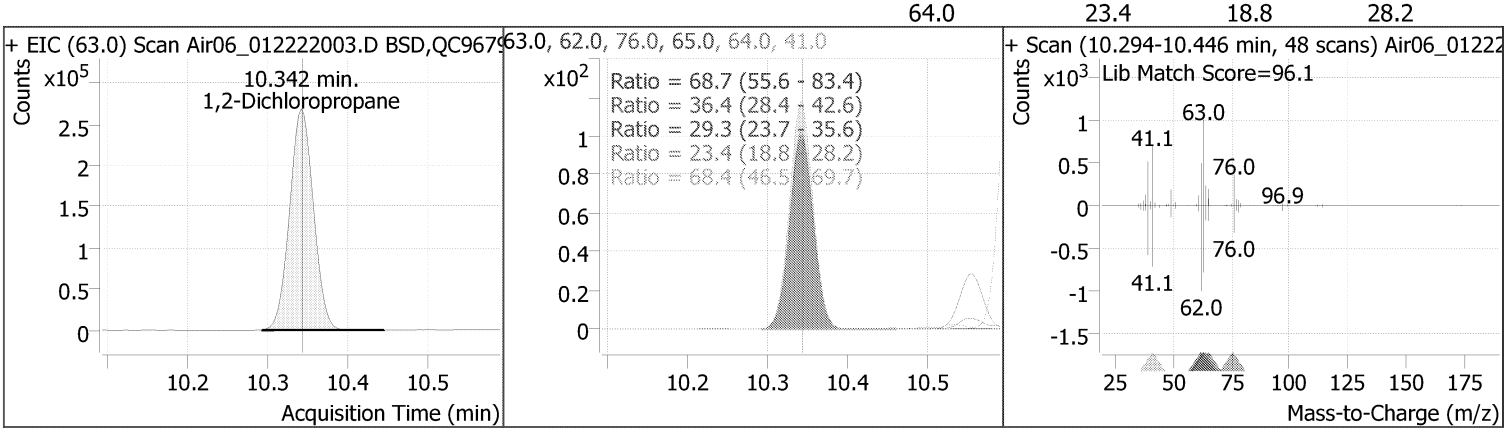

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 10.7282 | 9.75 | 0.00 | 1036072 | 119.0 | 96.2 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.1 | 24.8 | 37.3 |
| | | | | | 82.0 | 25.0 | 19.3 | 28.9 |
| | | | | | 47.0 | 29.7 | 19.0 | 28.5 |



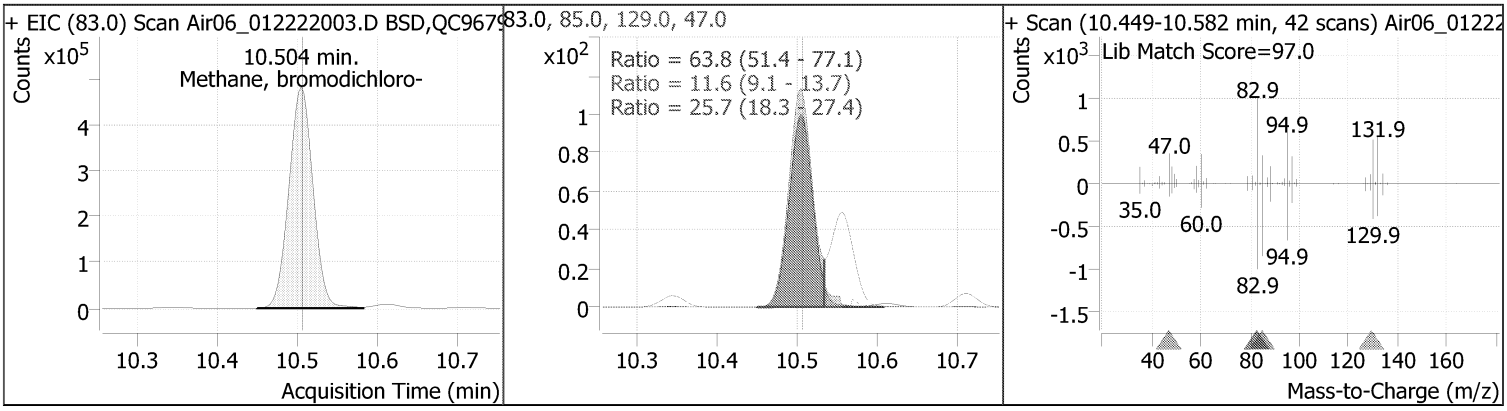
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 9.1839 | 9.87 | 0.00 | 517649 | 56.0 | 166.4 | 131.3 | 197.0 |
| | | | | | 41.0 | 97.7 | 72.0 | 108.0 |
| | | | | | 55.0 | 61.3 | 48.2 | 72.3 |
| | | | | | 69.0 | 47.4 | 35.8 | 53.6 |



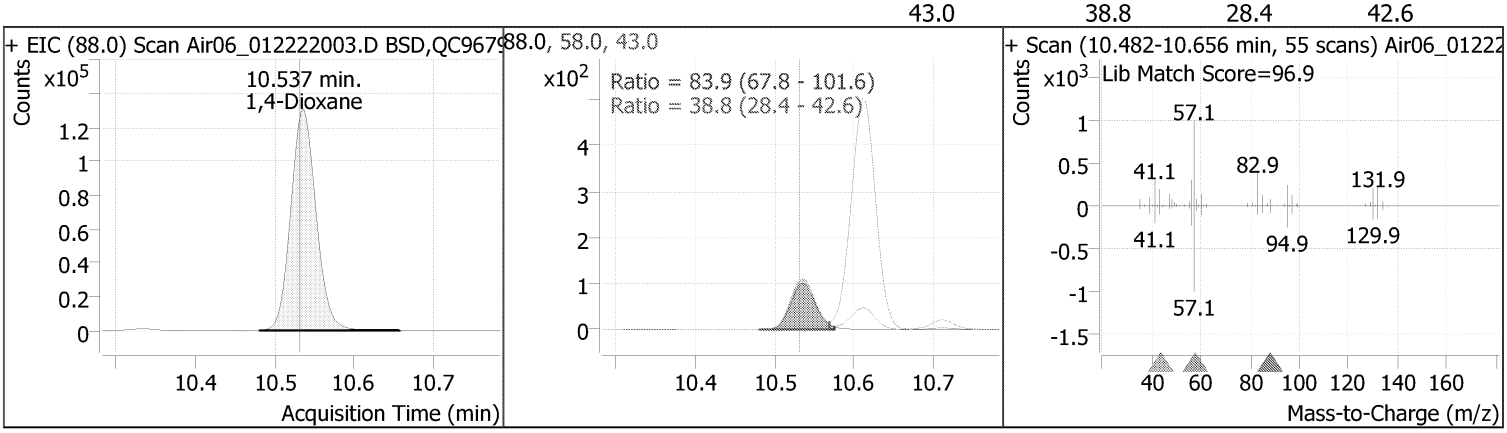

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 8.8209 | 10.34 | 0.00 | 559103 | 62.0 | 68.7 | 55.6 | 83.4 |
| | | | | | 41.0 | 68.4 | 46.5 | 69.7 |
| | | | | | 76.0 | 36.4 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.3 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.4 | 18.8 | 28.2 |



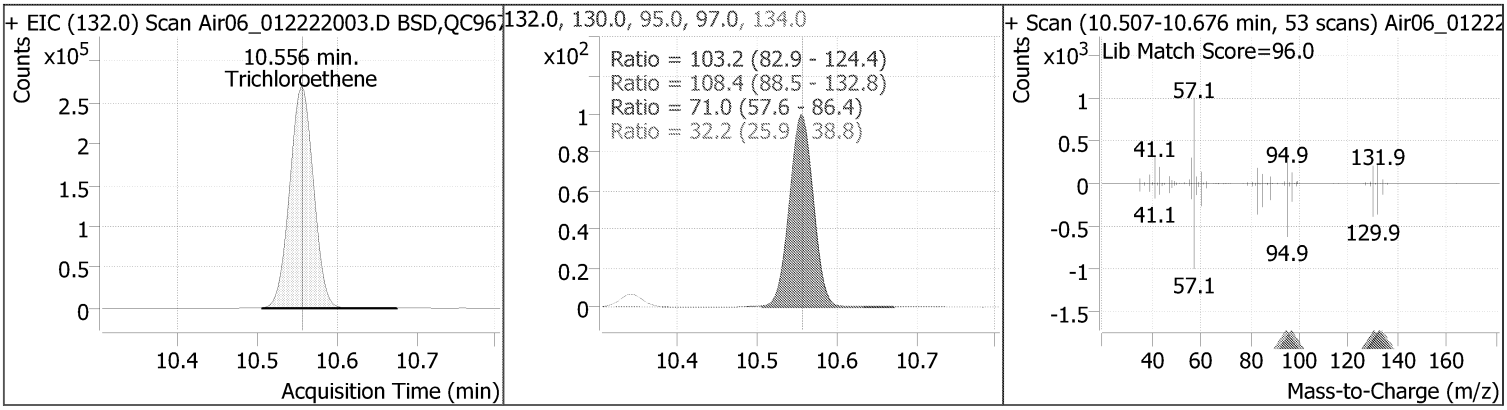

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 9.7811 | 10.50 | 0.00 | 1011611 | 85.0 | 63.8 | 51.4 | 77.1 |
| | | | | | 47.0 | 25.7 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.6 | 9.1 | 13.7 |



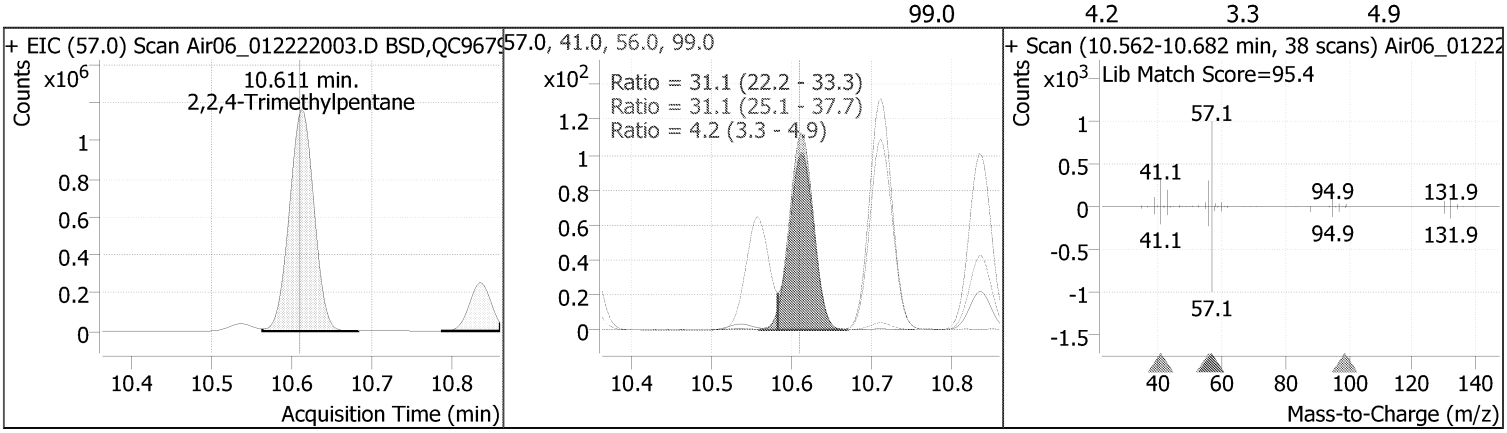
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 8.7108 | 10.54 | 0.00 | 288121 | 58.0 | 83.9 | 67.8 | 101.6 |
| | | | | | 43.0 | 38.8 | 28.4 | 42.6 |



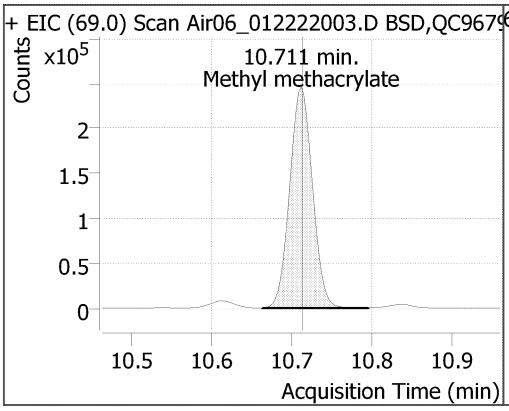

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 8.7258 | 10.56 | 0.00 | 562632 | 95.0 | 108.4 | 88.5 | 132.8 |
| | | | | | 130.0 | 103.2 | 82.9 | 124.4 |
| | | | | | 97.0 | 71.0 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.2 | 25.9 | 38.8 |

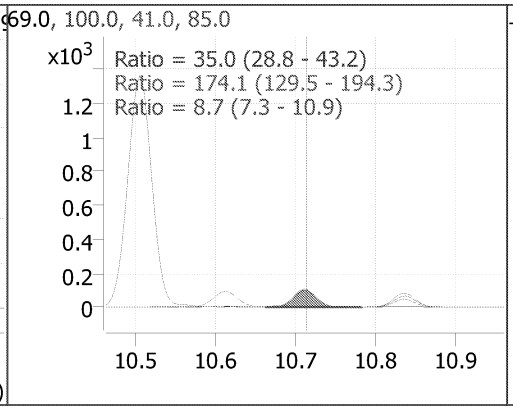


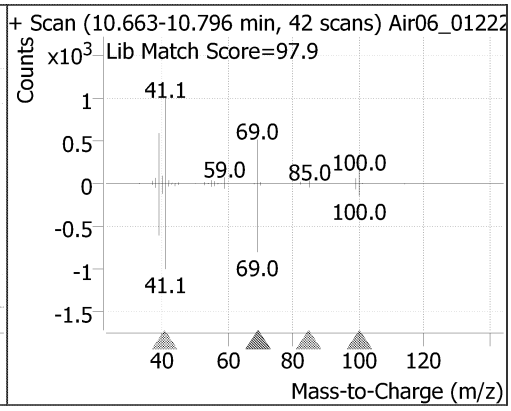

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 8.6810 | 10.61 | 0.00 | 2504154 | 56.0 | 31.1 | 25.1 | 37.7 |
| | | | | | 41.0 | 31.1 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.2 | 3.3 | 4.9 |



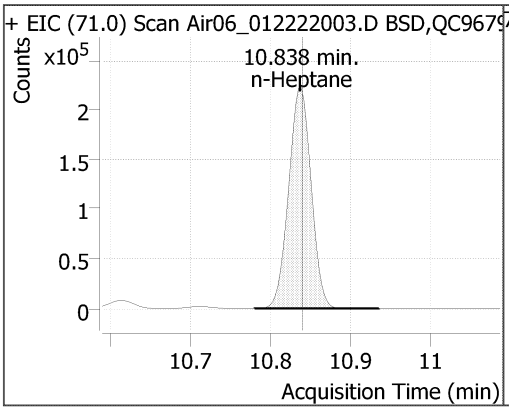
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 9.0818 | 10.71 | 0.00 | 488647 | 41.0 | 174.1 | 129.5 | 194.3 |
| | | | | | 100.0 | 35.0 | 28.8 | 43.2 |
| | | | | | 85.0 | 8.7 | 7.3 | 10.9 |

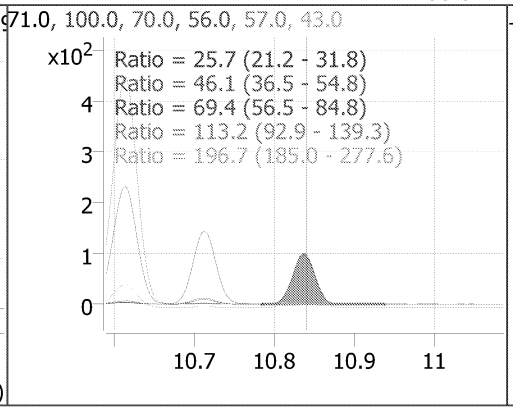


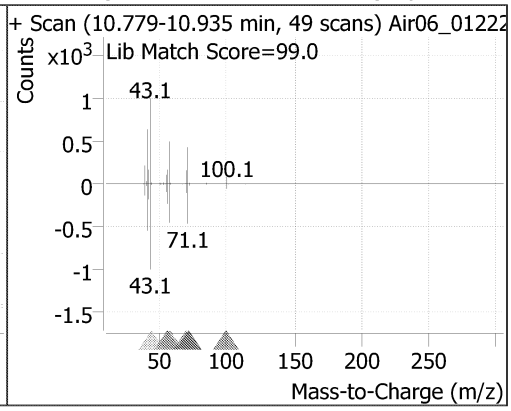



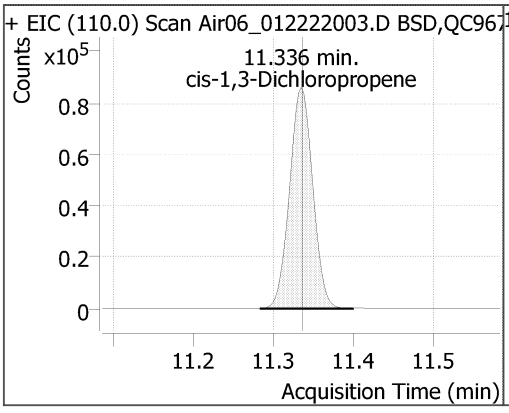

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 8.7724 | 10.84 | 0.00 | 437135 | 43.0 | 196.7 | 185.0 | 277.6 |
| | | | | | 57.0 | 113.2 | 92.9 | 139.3 |
| | | | | | 56.0 | 69.4 | 56.5 | 84.8 |
| | | | | | 70.0 | 46.1 | 36.5 | 54.8 |
| | | | | | 100.0 | 25.7 | 21.2 | 31.8 |

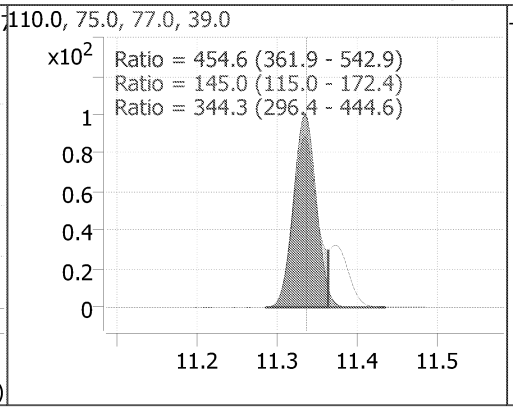


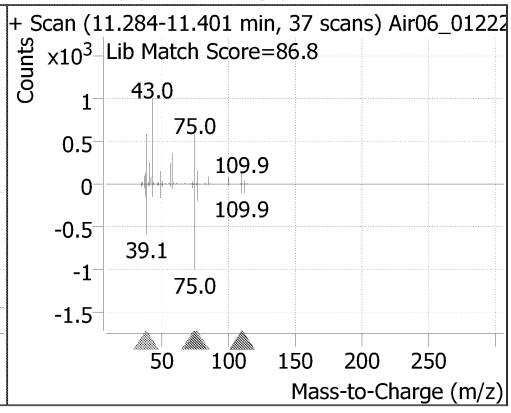



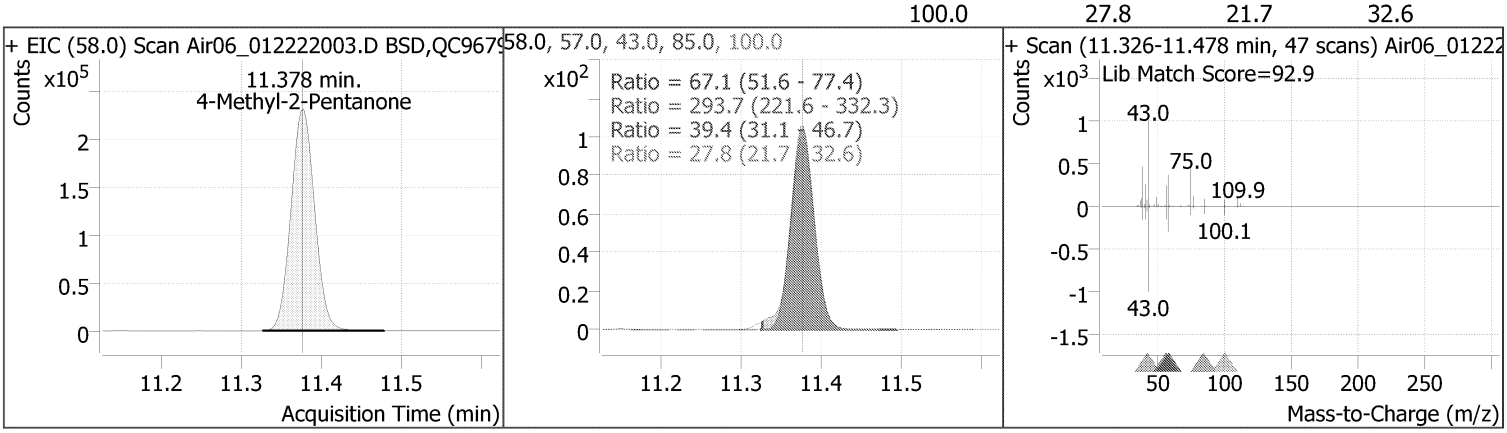

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 8.6504 | 11.34 | 0.00 | 174057 | 75.0 | 454.6 | 361.9 | 542.9 |
| | | | | | 39.0 | 344.3 | 296.4 | 444.6 |
| | | | | | 77.0 | 145.0 | 115.0 | 172.4 |



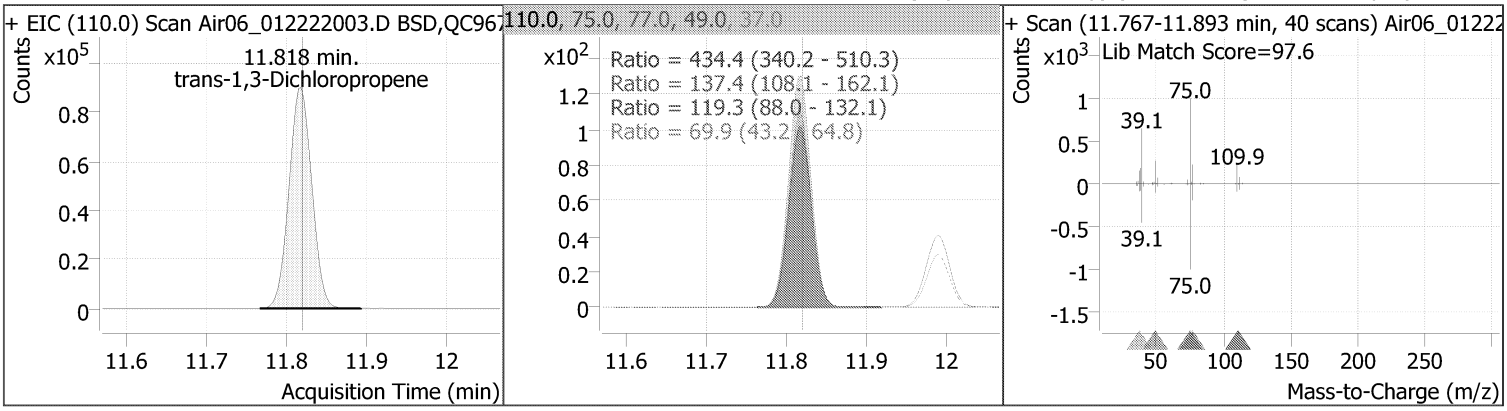



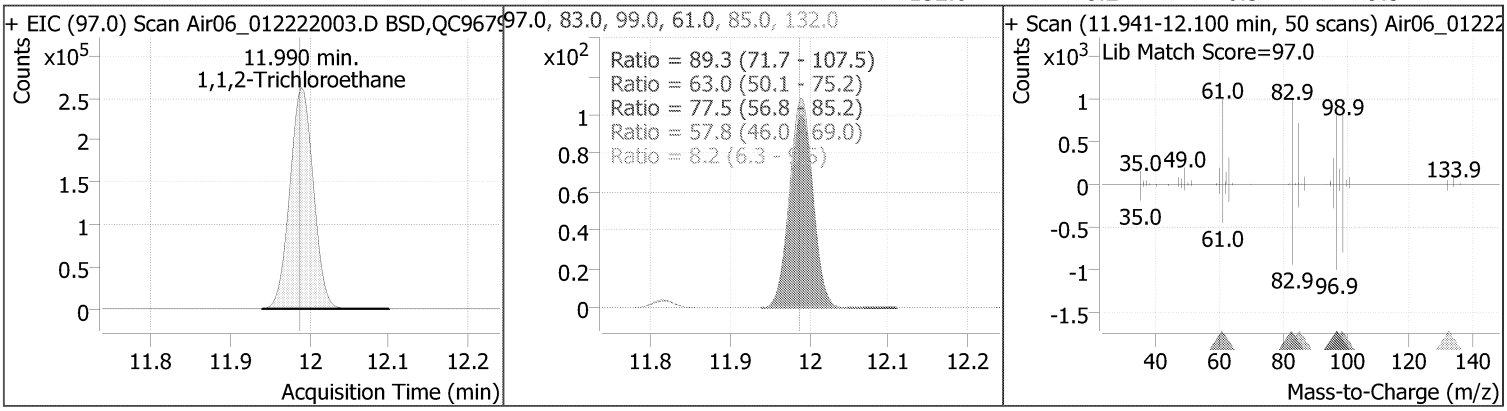
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 8.6215 | 11.38 | 0.00 | 479295 | 43.0 | 293.7 | 221.6 | 332.3 |
| | | | | | 57.0 | 67.1 | 51.6 | 77.4 |
| | | | | | 85.0 | 39.4 | 31.1 | 46.7 |
| | | | | | 100.0 | 27.8 | 21.7 | 32.6 |



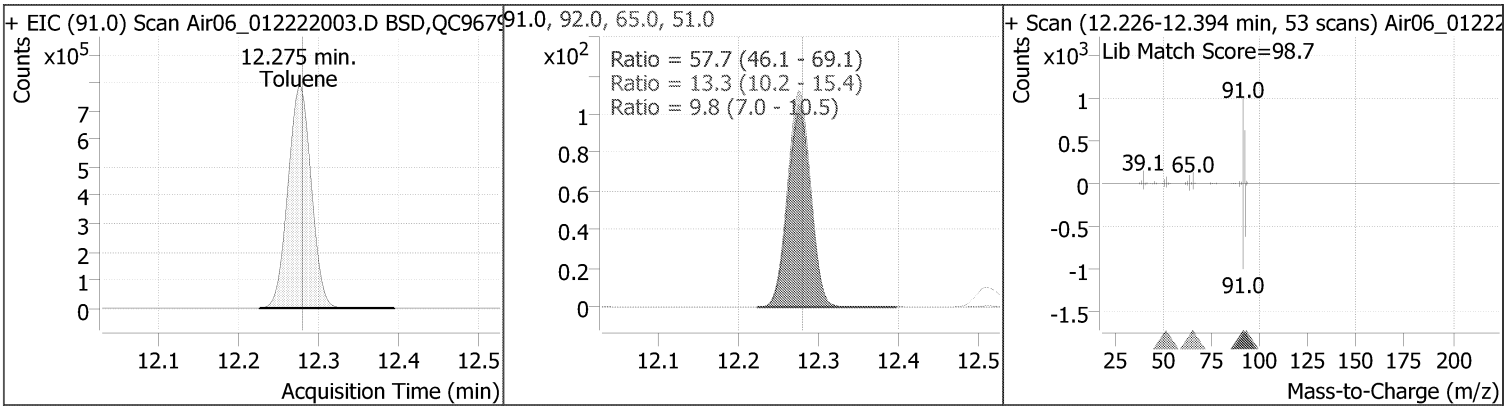

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 8.7129 | 11.82 | 0.00 | 179747 | 75.0 | 434.4 | 340.2 | 510.3 |
| | | | | | 77.0 | 137.4 | 108.1 | 162.1 |
| | | | | | 49.0 | 119.3 | 88.0 | 132.1 |
| | | | | | 37.0 | 69.9 | 43.2 | 64.8 |



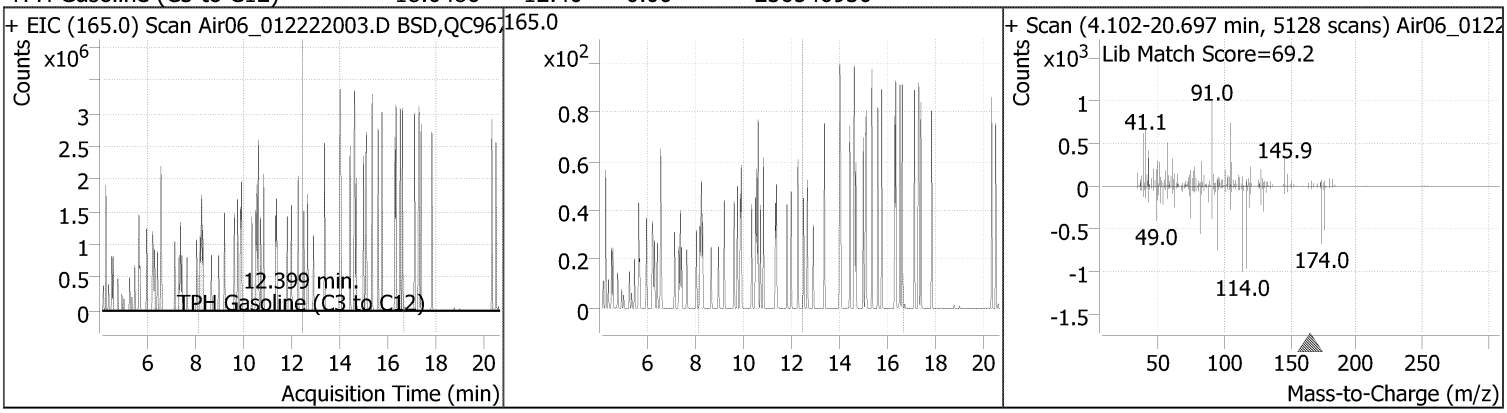

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 8.9436 | 11.99 | 0.00 | 539854 | 83.0 | 89.3 | 71.7 | 107.5 |
| | | | | | 61.0 | 77.5 | 56.8 | 85.2 |
| | | | | | 99.0 | 63.0 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.8 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.2 | 6.3 | 9.5 |



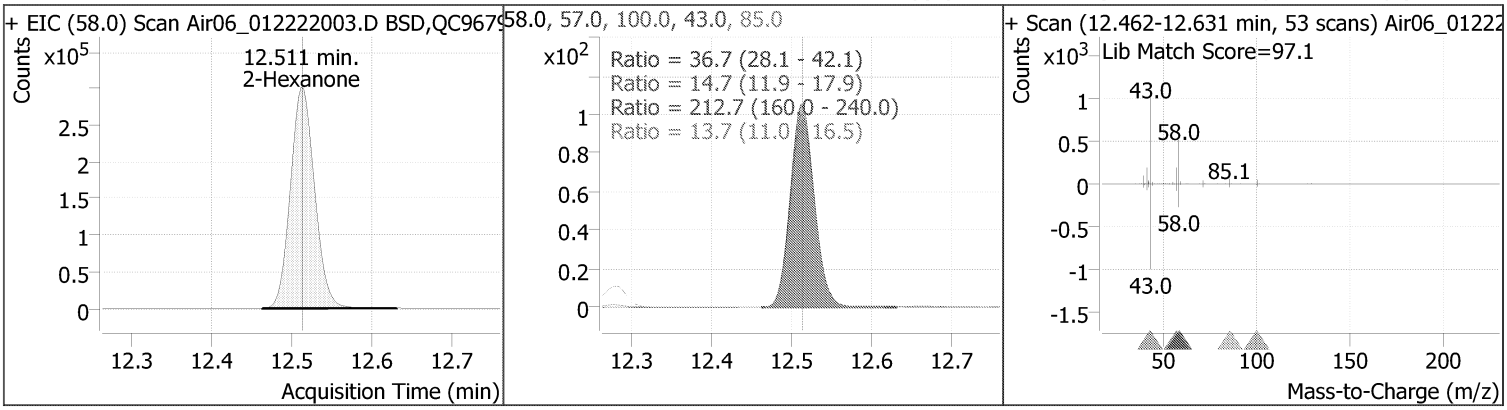
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 8.7372 | 12.27 | 0.00 | 1602543 | 92.0 | 57.7 | 46.1 | 69.1 |
| | | | | | 65.0 | 13.3 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.8 | 7.0 | 10.5 |



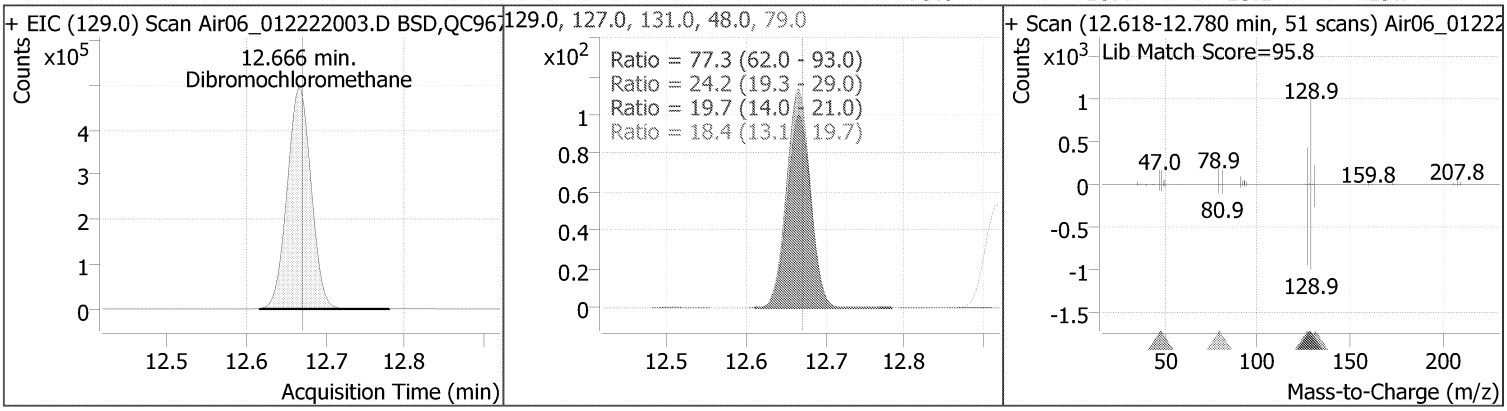

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 18.0486 | 12.40 | 0.00 | 236546930 | | | | |



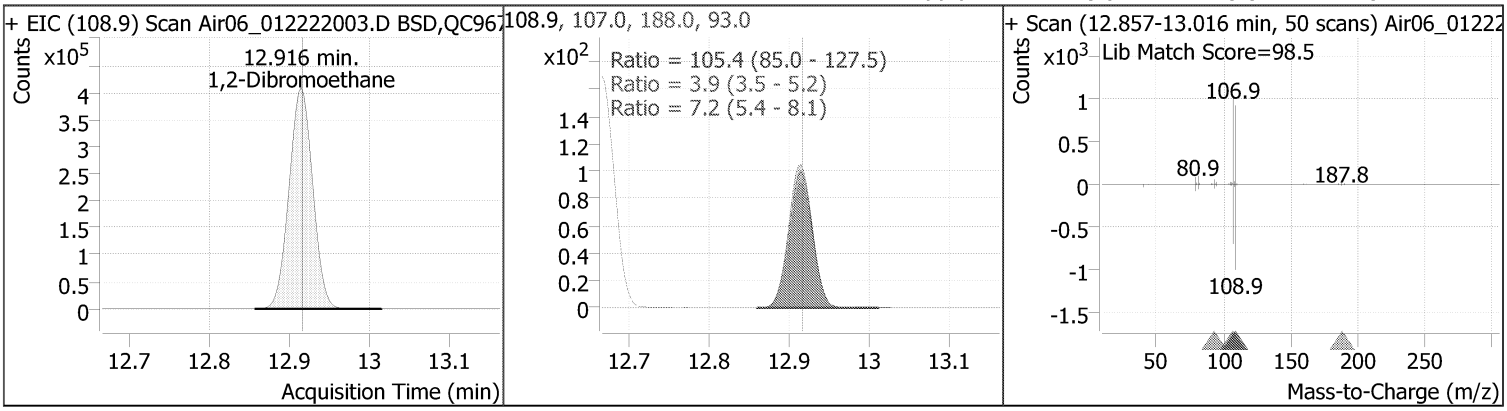

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 8.9302 | 12.51 | 0.00 | 637637 | 43.0 | 212.7 | 160.0 | 240.0 |
| | | | | | 57.0 | 36.7 | 28.1 | 42.1 |
| | | | | | 100.0 | 14.7 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.7 | 11.0 | 16.5 |



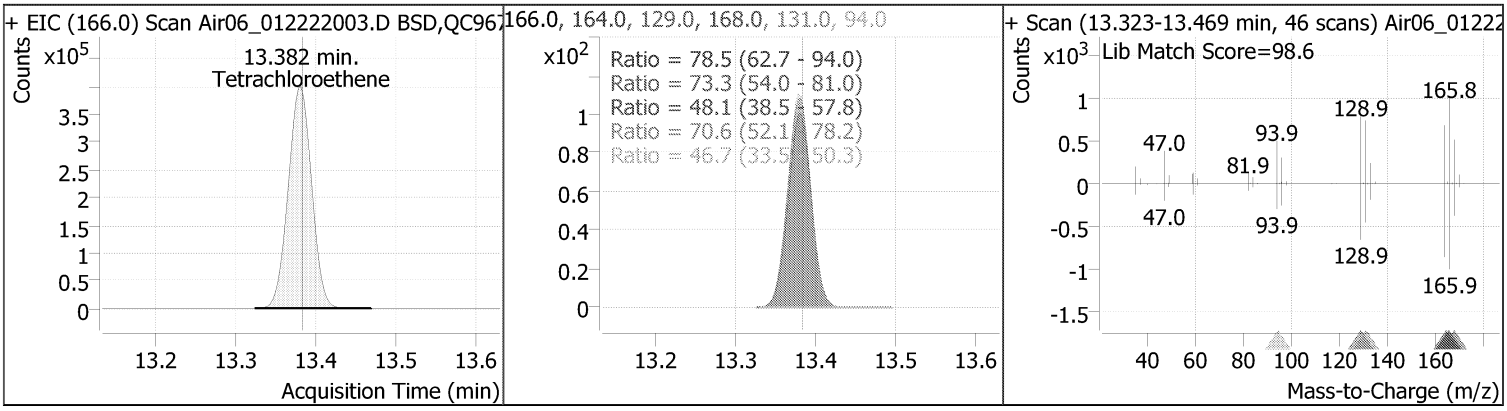
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 9.4122 | 12.67 | 0.00 | 1031396 | 127.0 | 77.3 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.2 | 19.3 | 29.0 |
| | | | | | 48.0 | 19.7 | 14.0 | 21.0 |
| | | | | | 79.0 | 18.4 | 13.1 | 19.7 |



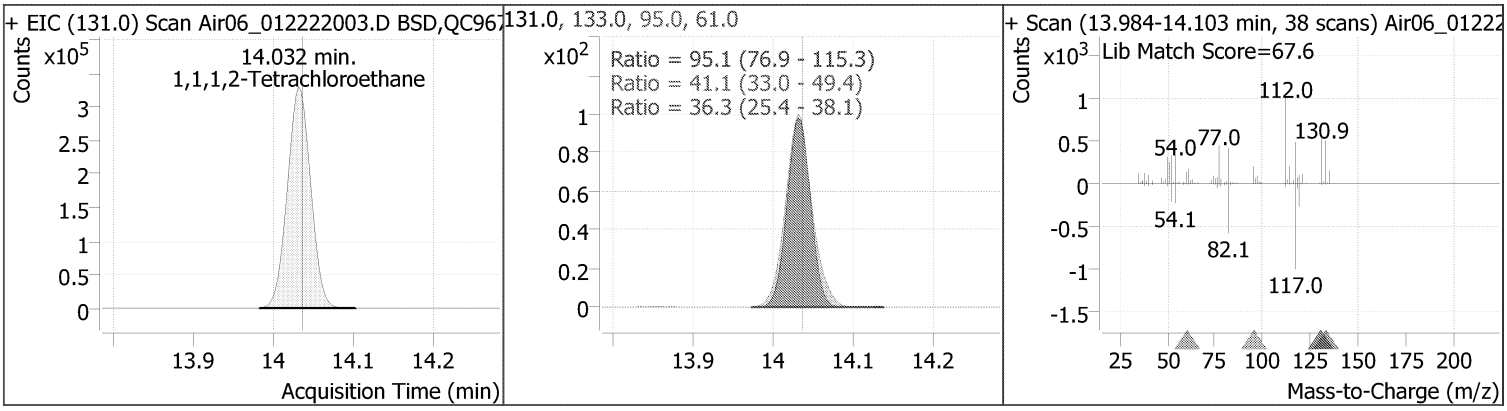

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 9.1087 | 12.92 | 0.00 | 845867 | 107.0 | 105.4 | 85.0 | 127.5 |
| | | | | | 93.0 | 7.2 | 5.4 | 8.1 |
| | | | | | 188.0 | 3.9 | 3.5 | 5.2 |



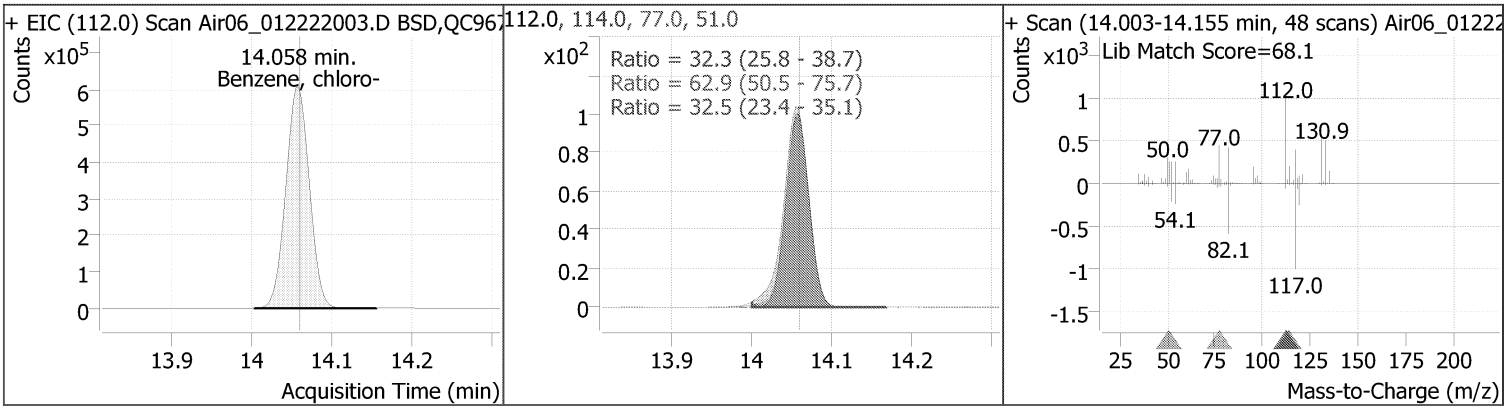

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 8.5951 | 13.38 | 0.00 | 815044 | 164.0 | 78.5 | 62.7 | 94.0 |
| | | | | | 129.0 | 73.3 | 54.0 | 81.0 |
| | | | | | 131.0 | 70.6 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.1 | 38.5 | 57.8 |
| | | | | | 94.0 | 46.7 | 33.5 | 50.3 |



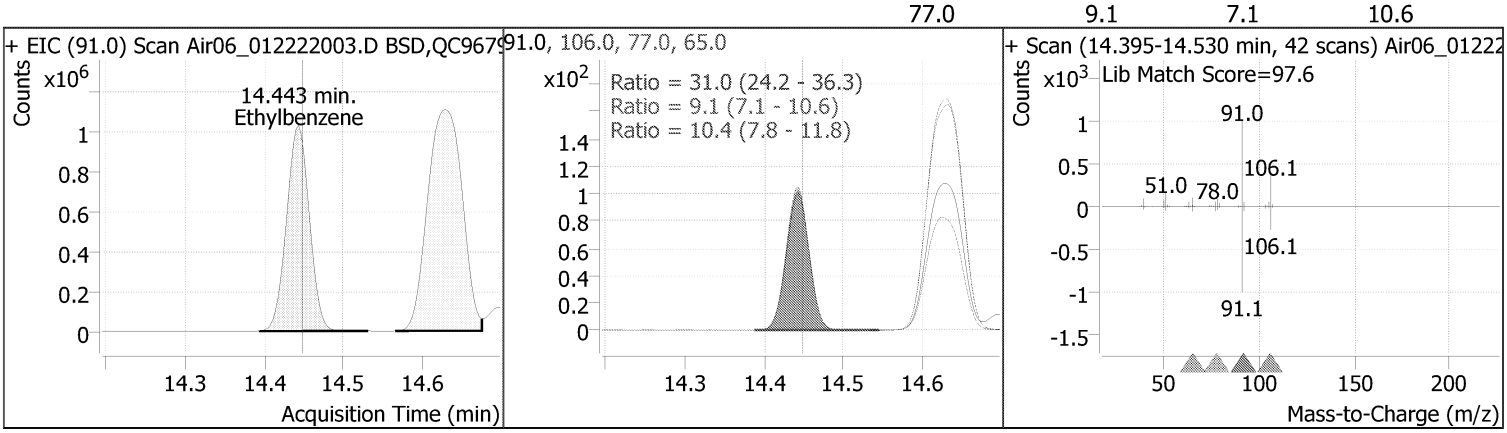
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 9.5224 | 14.03 | 0.00 | 668589 | 133.0 | 95.1 | 76.9 | 115.3 |
| | | | | | 95.0 | 41.1 | 33.0 | 49.4 |
| | | | | | 61.0 | 36.3 | 25.4 | 38.1 |



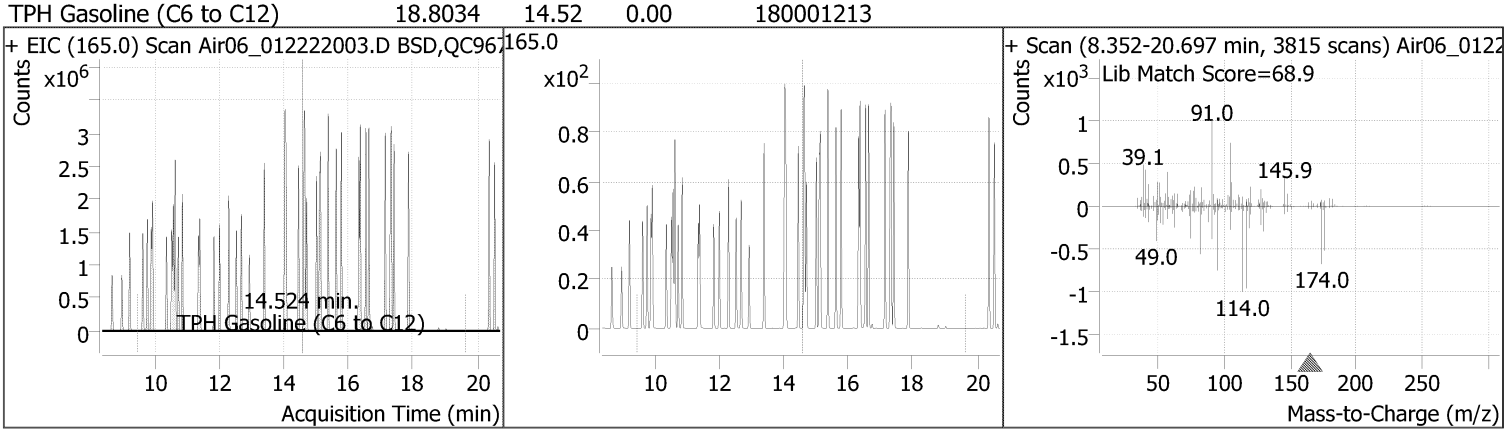

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 8.9544 | 14.06 | 0.00 | 1247619 | 77.0 | 62.9 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.3 | 25.8 | 38.7 |
| | | | | | 51.0 | 32.5 | 23.4 | 35.1 |



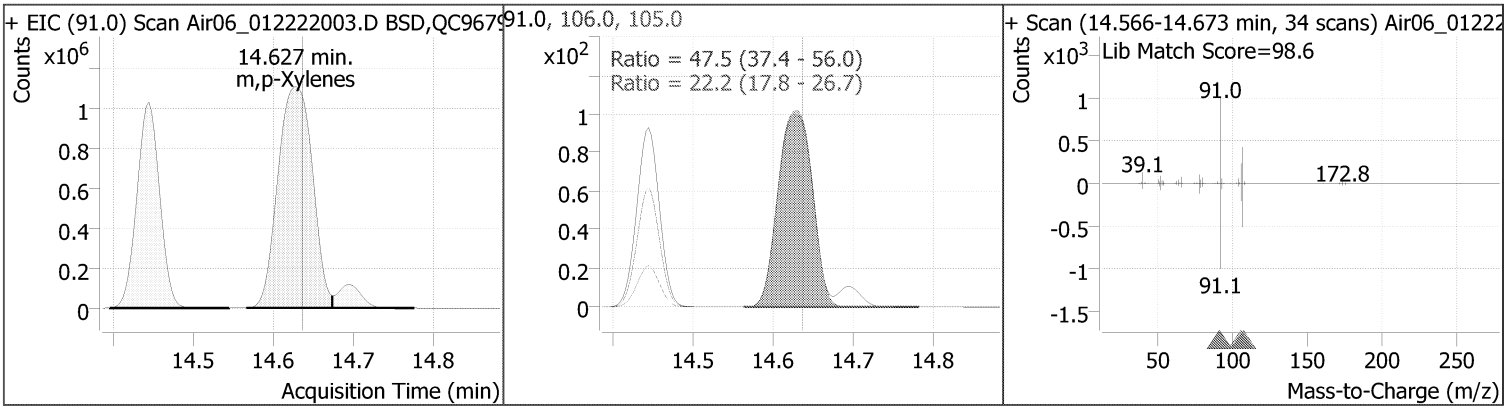

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 9.1901 | 14.44 | 0.00 | 2034285 | 106.0 | 31.0 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.4 | 7.8 | 11.8 |
| | | | | | 77.0 | 9.1 | 7.1 | 10.6 |



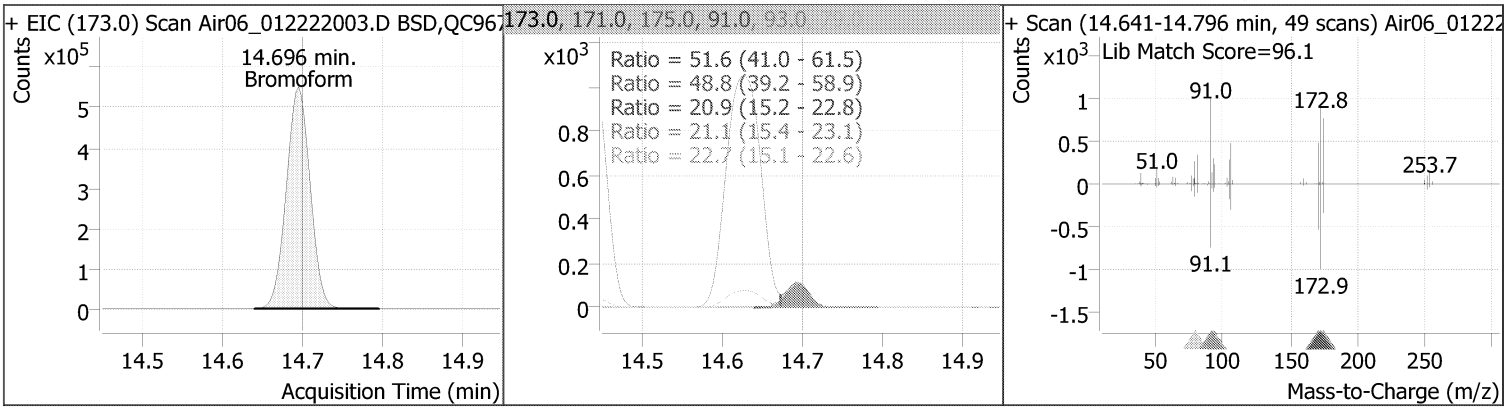
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 18.8034 | 14.52 | 0.00 | 180001213 | | | | |



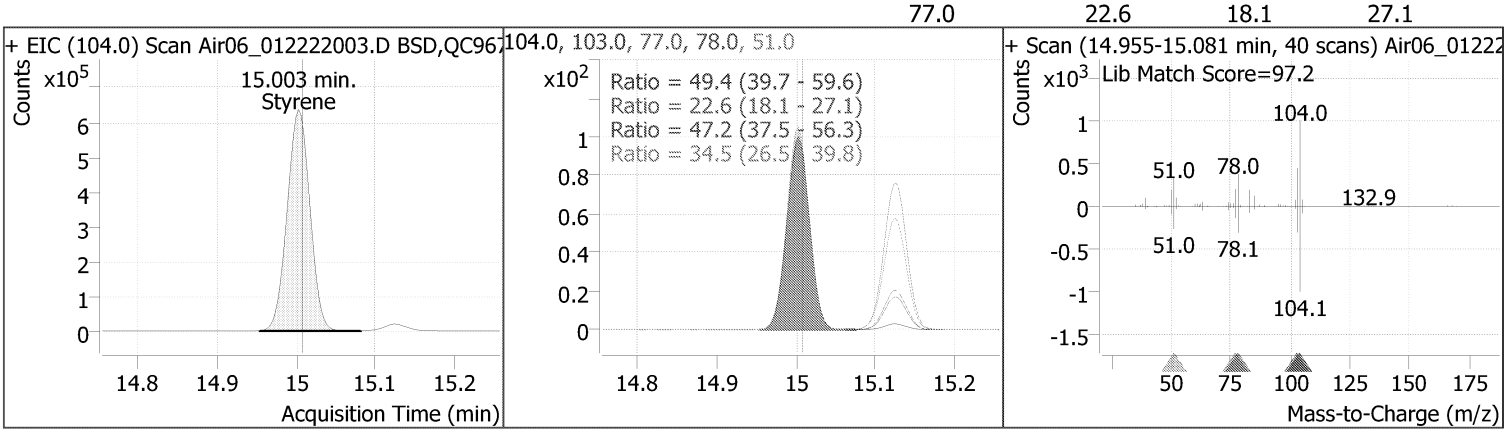

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 18.7017 | 14.63 | -0.01 | 3329347 | 106.0 | 47.5 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.2 | 17.8 | 26.7 |



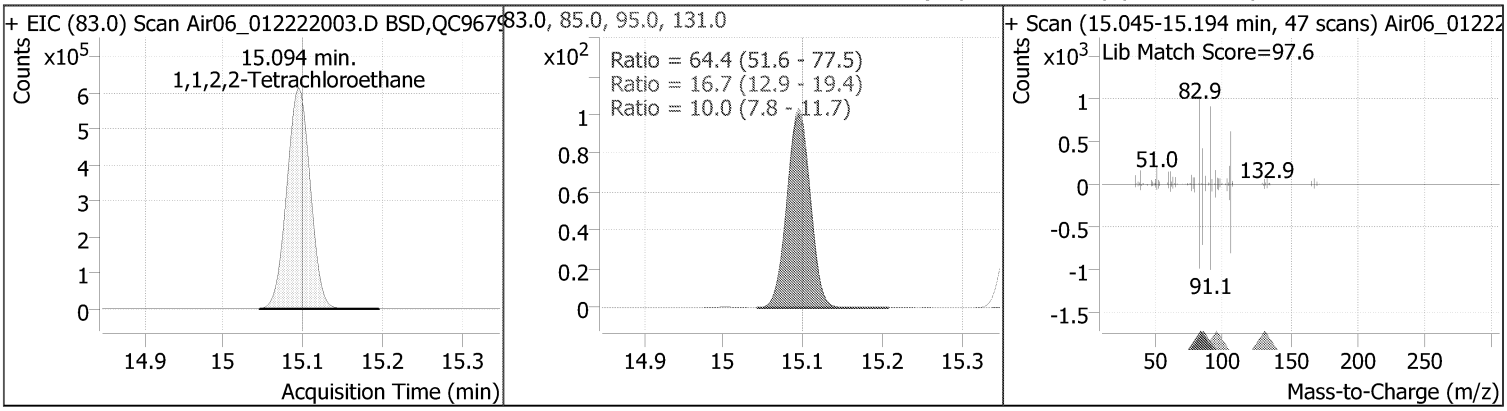

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 9.3863 | 14.70 | 0.00 | 1144501 | 171.0 | 51.6 | 41.0 | 61.5 |
| | | | | | 175.0 | 48.8 | 39.2 | 58.9 |
| | | | | | 93.0 | 21.1 | 15.4 | 23.1 |
| | | | | | 91.0 | 20.9 | 15.2 | 22.8 |
| | | | | | 79.0 | 22.7 | 15.1 | 22.6 |



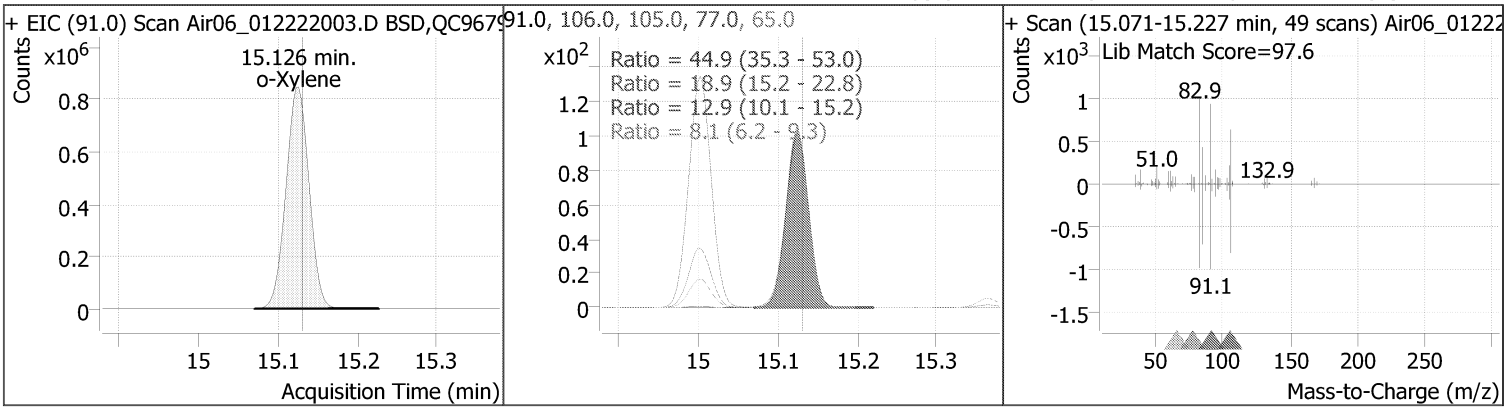
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 8.9448 | 15.00 | 0.00 | 1261913 | 103.0 | 49.4 | 39.7 | 59.6 |
| | | | | | 78.0 | 47.2 | 37.5 | 56.3 |
| | | | | | 51.0 | 34.5 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.6 | 18.1 | 27.1 |



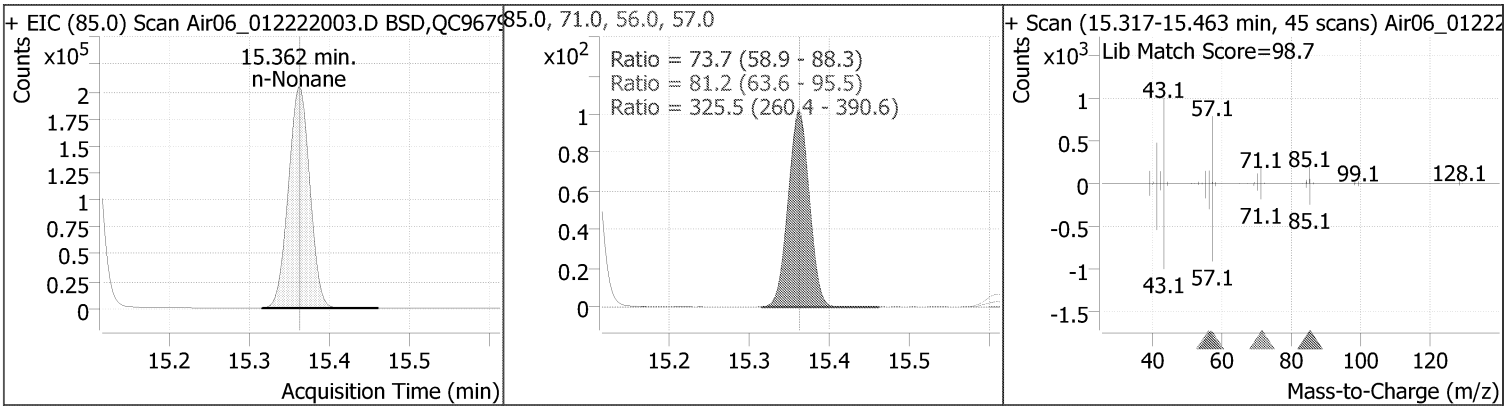

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 9.3277 | 15.09 | 0.00 | 1254828 | 85.0 | 64.4 | 51.6 | 77.5 |
| | | | | | 95.0 | 16.7 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.0 | 7.8 | 11.7 |



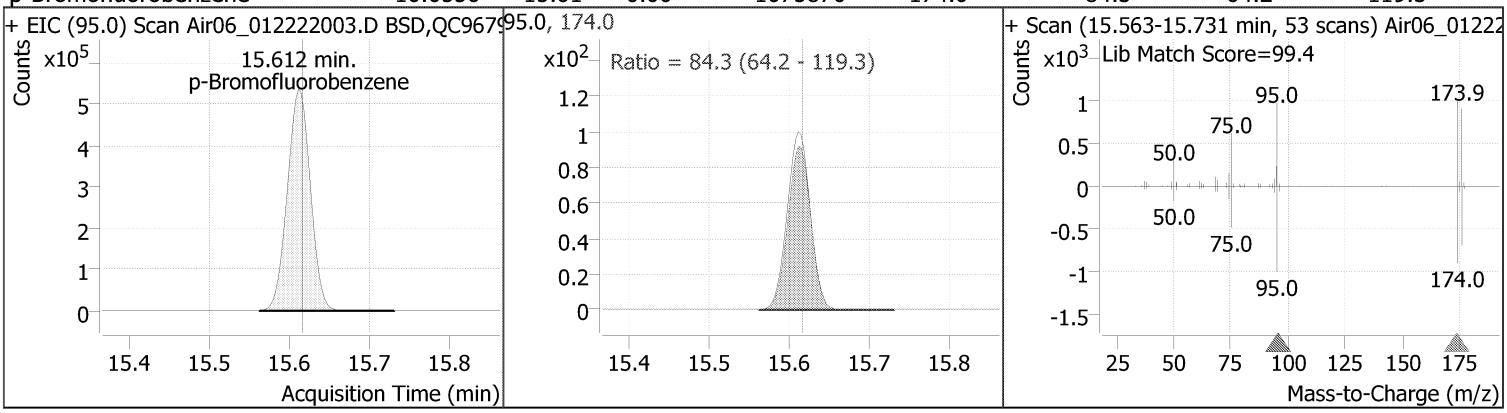

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 9.3070 | 15.13 | 0.00 | 1703459 | 106.0 | 44.9 | 35.3 | 53.0 |
| | | | | | 105.0 | 18.9 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.9 | 10.1 | 15.2 |
| | | | | | 65.0 | 8.1 | 6.2 | 9.3 |



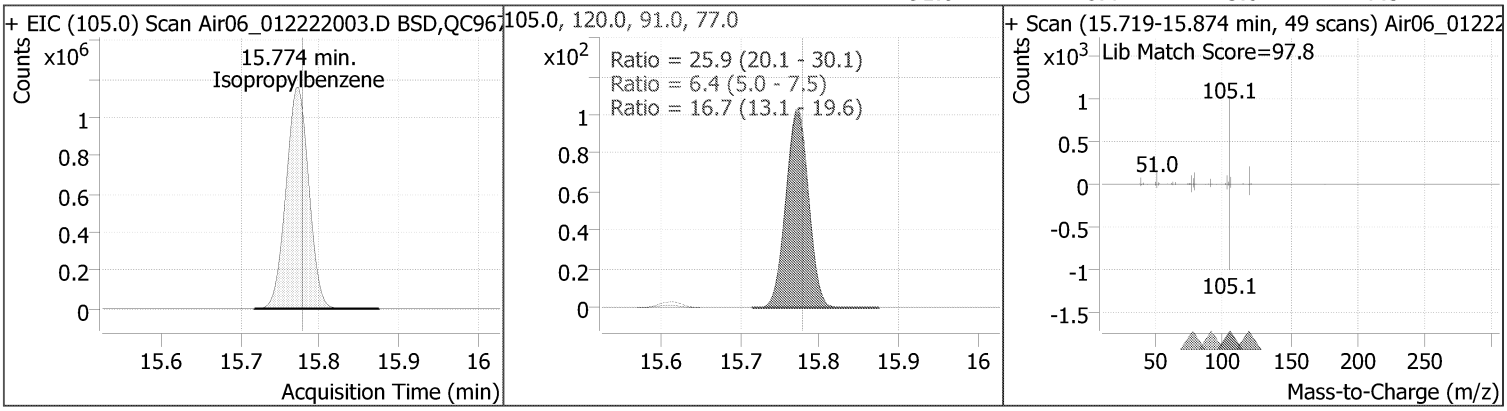
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 9.0255 | 15.36 | 0.00 | 381639 | 57.0 | 325.5 | 260.4 | 390.6 |
| | | | | | 56.0 | 81.2 | 63.6 | 95.5 |
| | | | | | 71.0 | 73.7 | 58.9 | 88.3 |



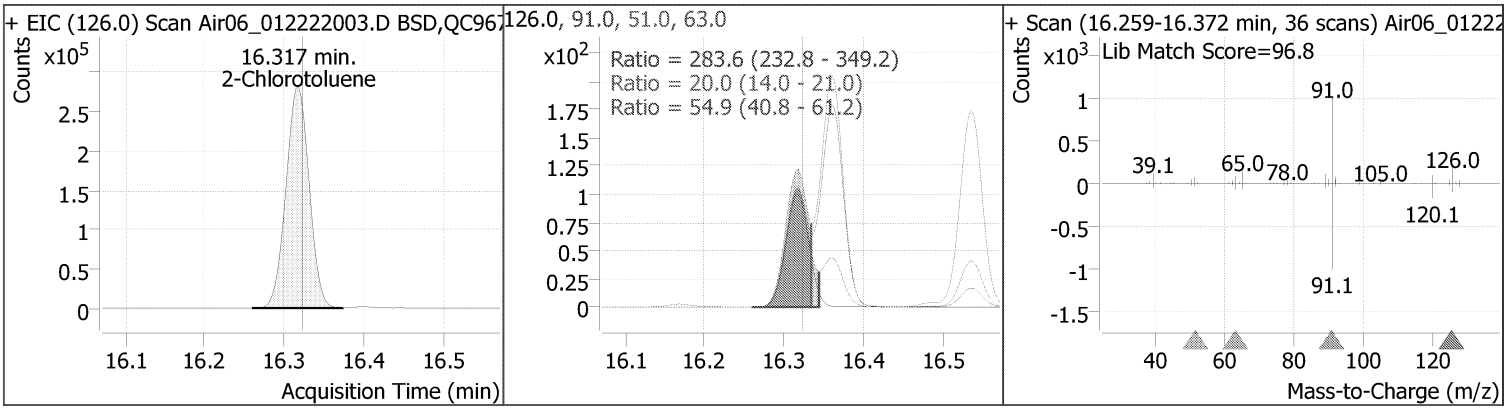

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.0556 | 15.61 | 0.00 | 1075870 | 174.0 | 84.3 | 64.2 | 119.3 |



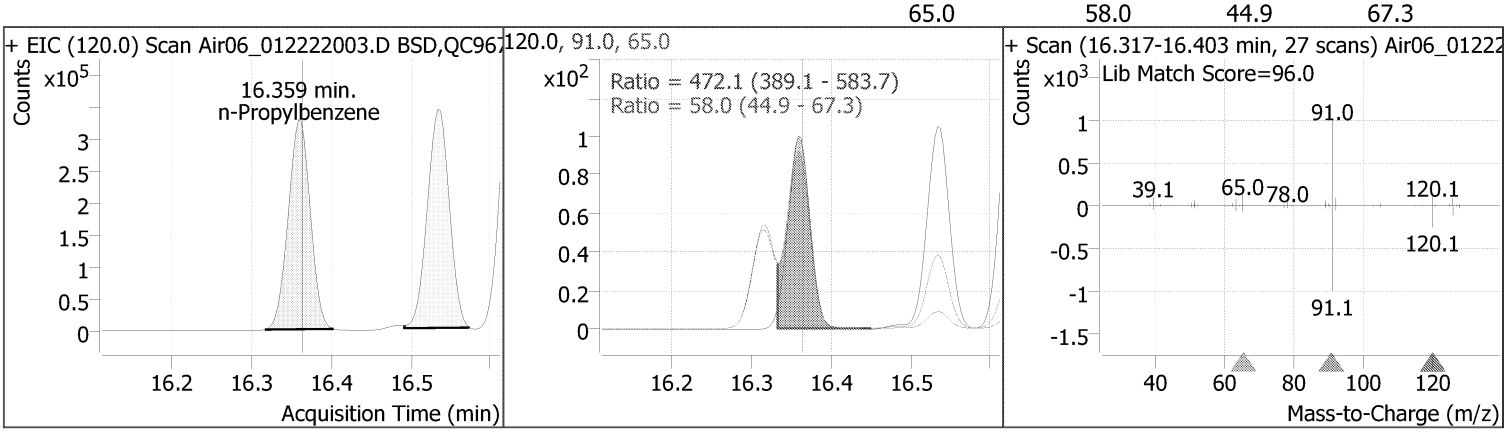

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 9.1944 | 15.77 | 0.00 | 2306846 | 120.0 | 25.9 | 20.1 | 30.1 |
| | | | | | 77.0 | 16.7 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.4 | 5.0 | 7.5 |



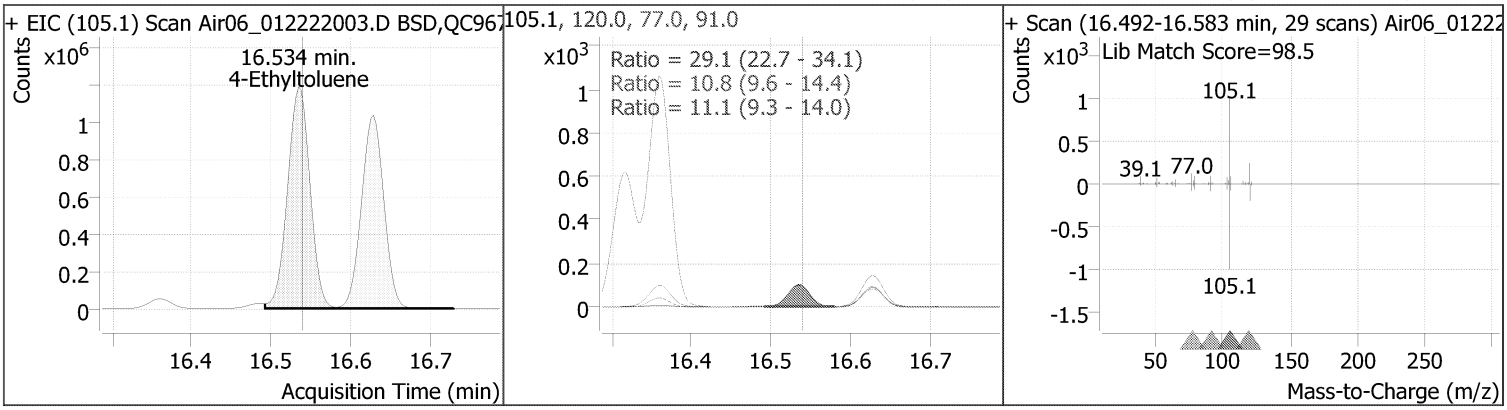
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 8.9207 | 16.32 | 0.00 | 570064 | 91.0 | 283.6 | 232.8 | 349.2 |
| | | | | | 63.0 | 54.9 | 40.8 | 61.2 |
| | | | | | 51.0 | 20.0 | 14.0 | 21.0 |



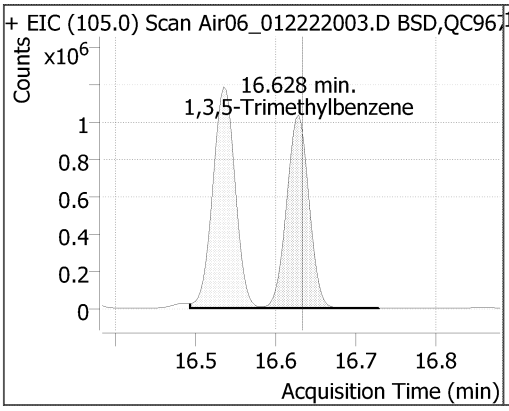

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 8.9722 | 16.36 | 0.00 | 628964 | 91.0 | 472.1 | 389.1 | 583.7 |
| | | | | | 65.0 | 58.0 | 44.9 | 67.3 |

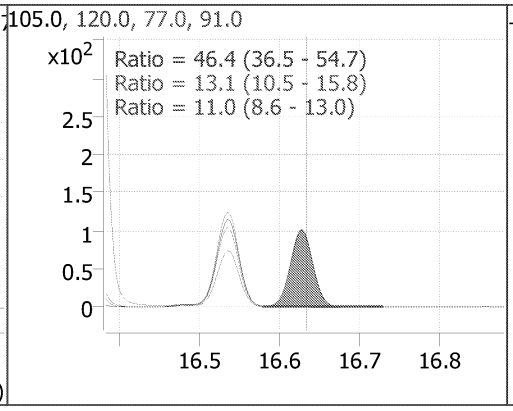


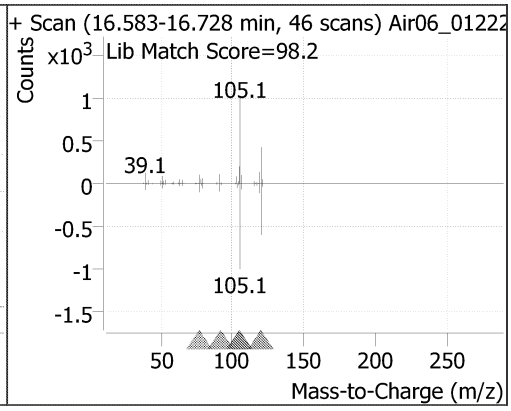

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 9.3425 | 16.53 | 0.00 | 2319613 | 120.0 | 29.1 | 22.7 | 34.1 |
| | | | | | 77.0 | 10.8 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.1 | 9.3 | 14.0 |



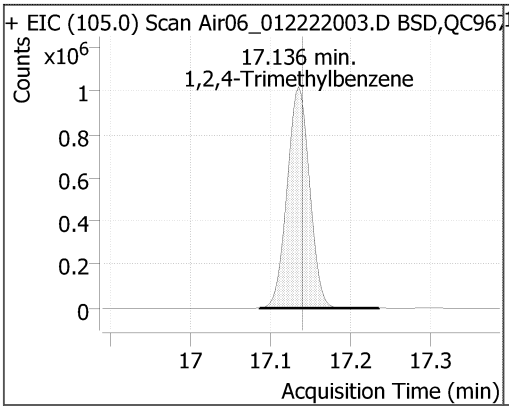
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 9.4057 | 16.63 | 0.00 | 2021619 | 120.0 | 46.4 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.1 | 10.5 | 15.8 |
| | | | | | 91.0 | 11.0 | 8.6 | 13.0 |

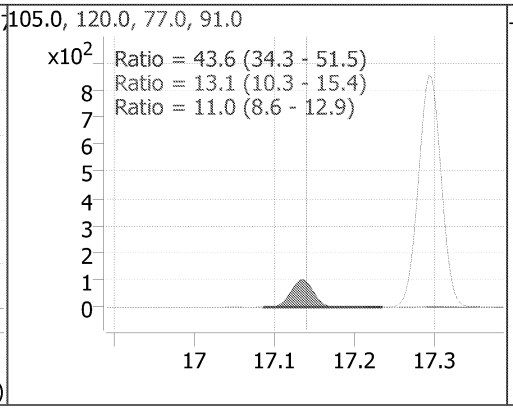


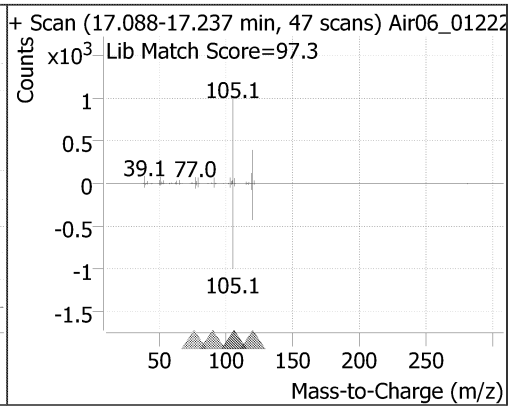



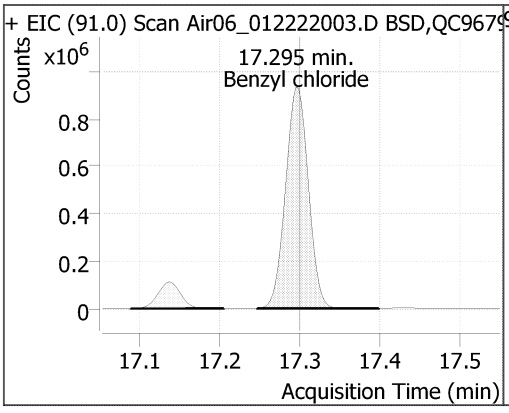

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 9.3904 | 17.14 | 0.00 | 2004647 | 120.0 | 43.6 | 34.3 | 51.5 |
| | | | | | 77.0 | 13.1 | 10.3 | 15.4 |
| | | | | | 91.0 | 11.0 | 8.6 | 12.9 |

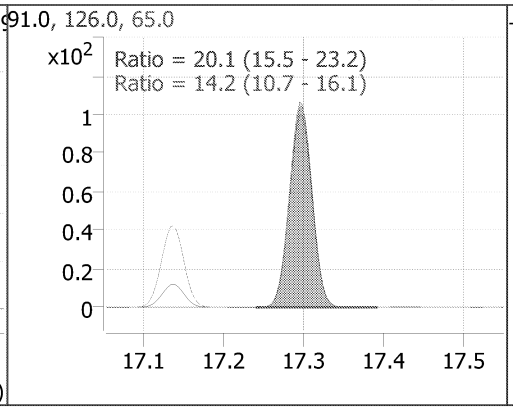


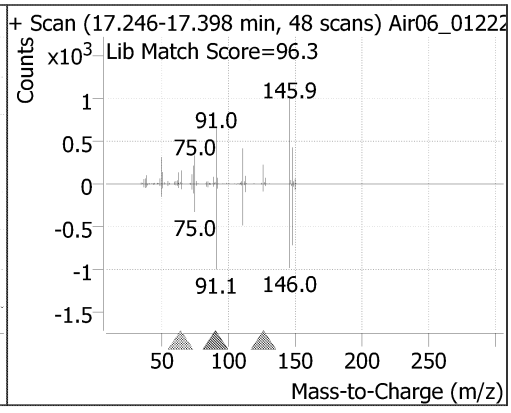



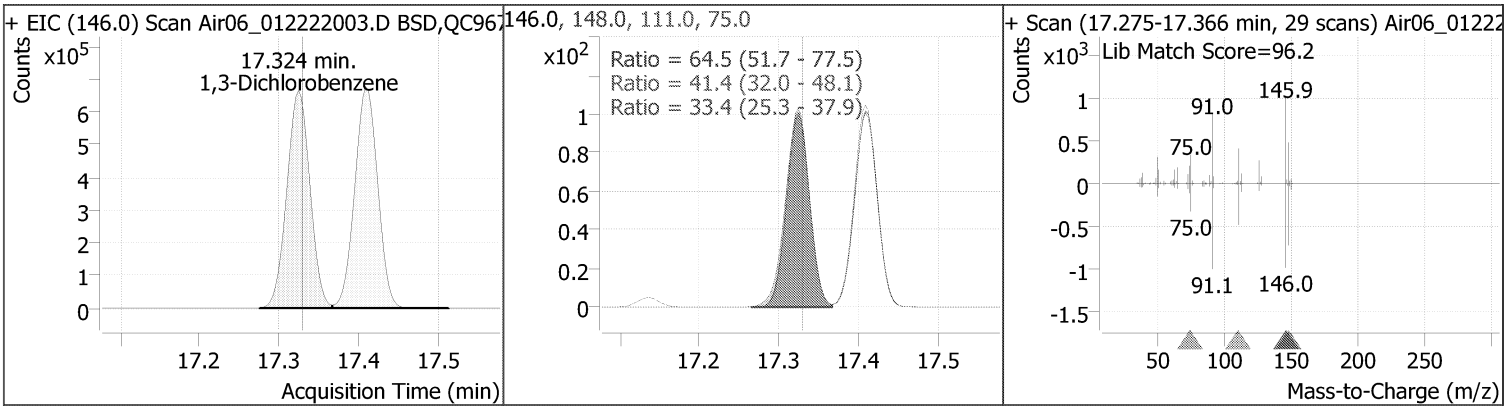

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 9.8768 | 17.29 | -0.01 | 1853952 | 126.0 | 20.1 | 15.5 | 23.2 |
| | | | | | 65.0 | 14.2 | 10.7 | 16.1 |



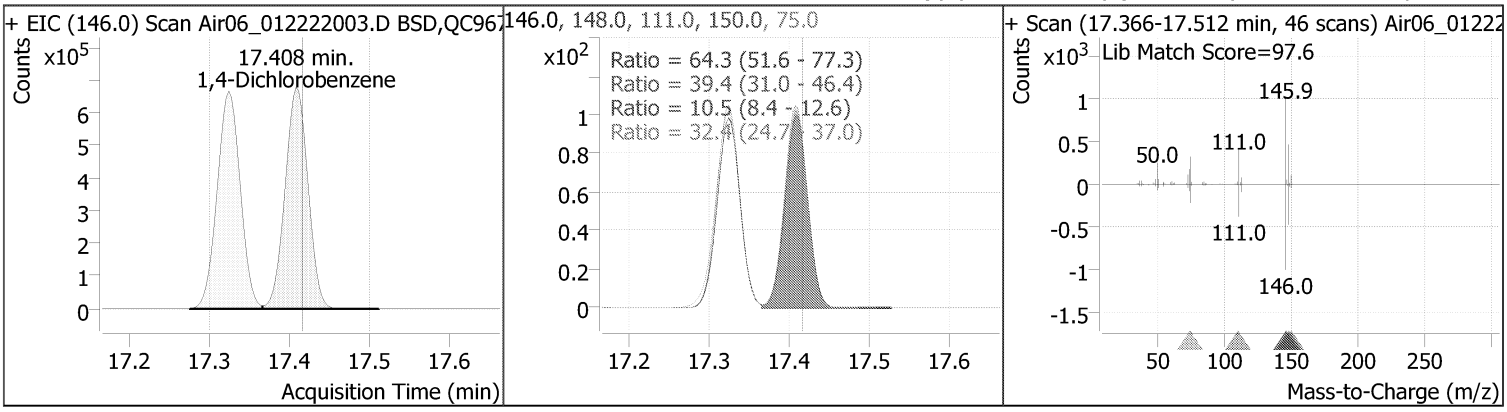



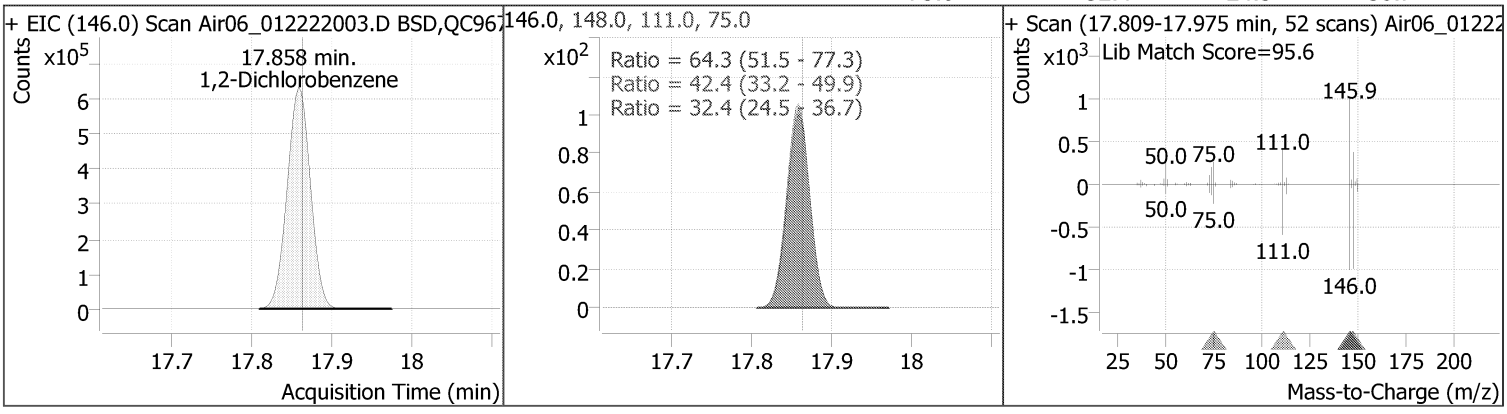
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 9.1563 | 17.32 | 0.00 | 1340729 | 148.0 | 64.5 | 51.7 | 77.5 |
| | | | | | 111.0 | 41.4 | 32.0 | 48.1 |
| | | | | | 75.0 | 33.4 | 25.3 | 37.9 |



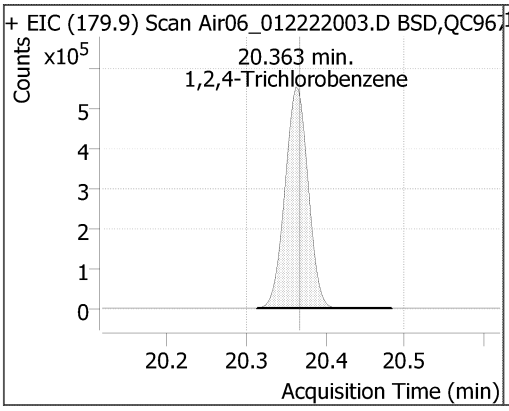

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 9.1497 | 17.41 | -0.01 | 1354765 | 148.0 | 64.3 | 51.6 | 77.3 |
| | | | | | 111.0 | 39.4 | 31.0 | 46.4 |
| | | | | | 75.0 | 32.4 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.5 | 8.4 | 12.6 |

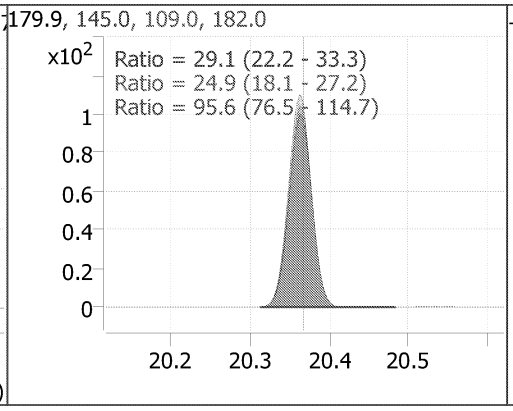


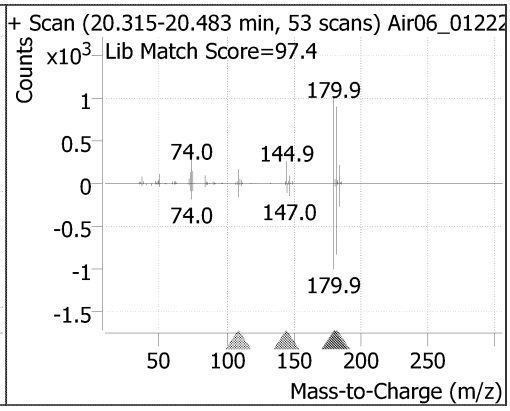

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 9.0504 | 17.86 | 0.00 | 1292547 | 148.0 | 64.3 | 51.5 | 77.3 |
| | | | | | 111.0 | 42.4 | 33.2 | 49.9 |
| | | | | | 75.0 | 32.4 | 24.5 | 36.7 |



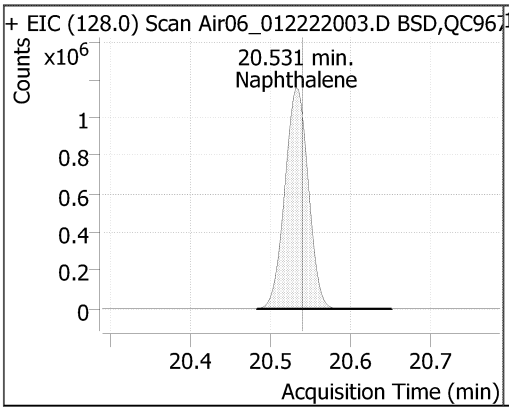
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 9.4820 | 20.36 | -0.01 | 1115873 | 182.0 | 95.6 | 76.5 | 114.7 |
| | | | | | 145.0 | 29.1 | 22.2 | 33.3 |
| | | | | | 109.0 | 24.9 | 18.1 | 27.2 |

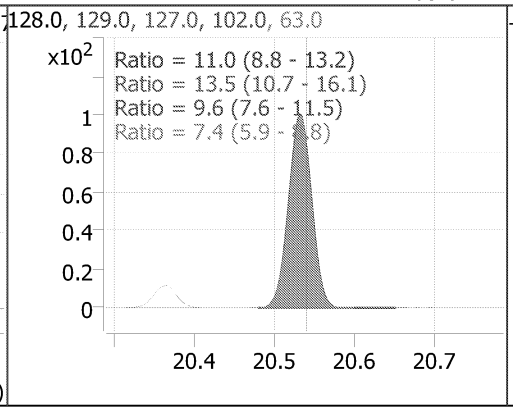


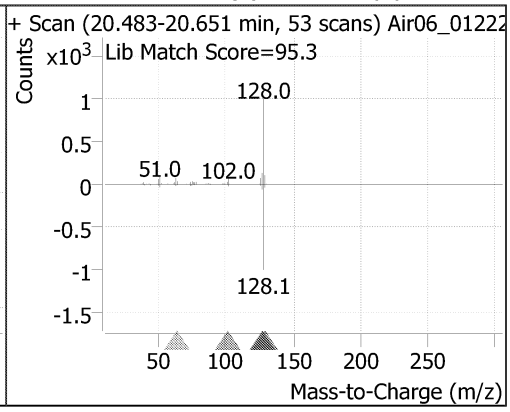



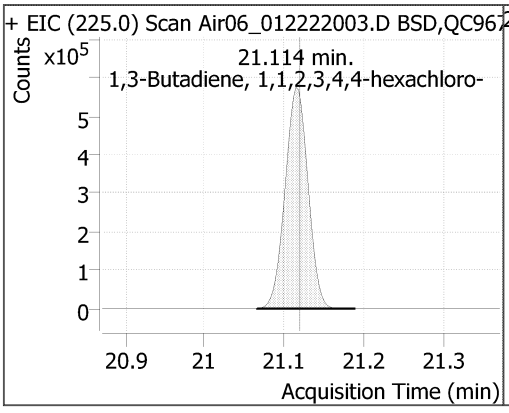

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 9.7404 | 20.53 | -0.01 | 2372557 | 127.0 | 13.5 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.6 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.4 | 5.9 | 8.8 |

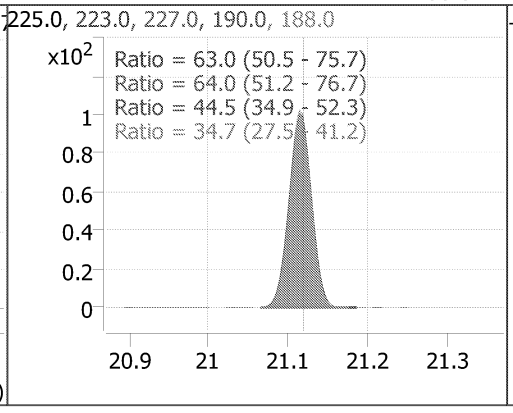


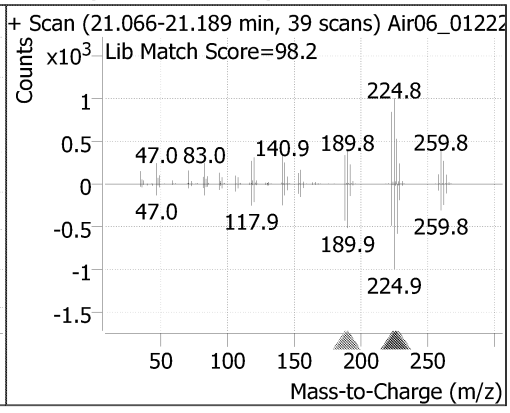




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 9.0925 | 21.11 | -0.01 | 1149823 | 227.0 | 64.0 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.0 | 50.5 | 75.7 |
| | | | | | 190.0 | 44.5 | 34.9 | 52.3 |
| | | | | | 188.0 | 34.7 | 27.5 | 41.2 |



**Initial Calibration Raw Data**

ENTHALPY BFB TUNE FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-06 Run Name : TUNE IDF : 1.0
Seqnum : 372007975002 File : air06_010522002 Time : 05-JAN-2022 13:37

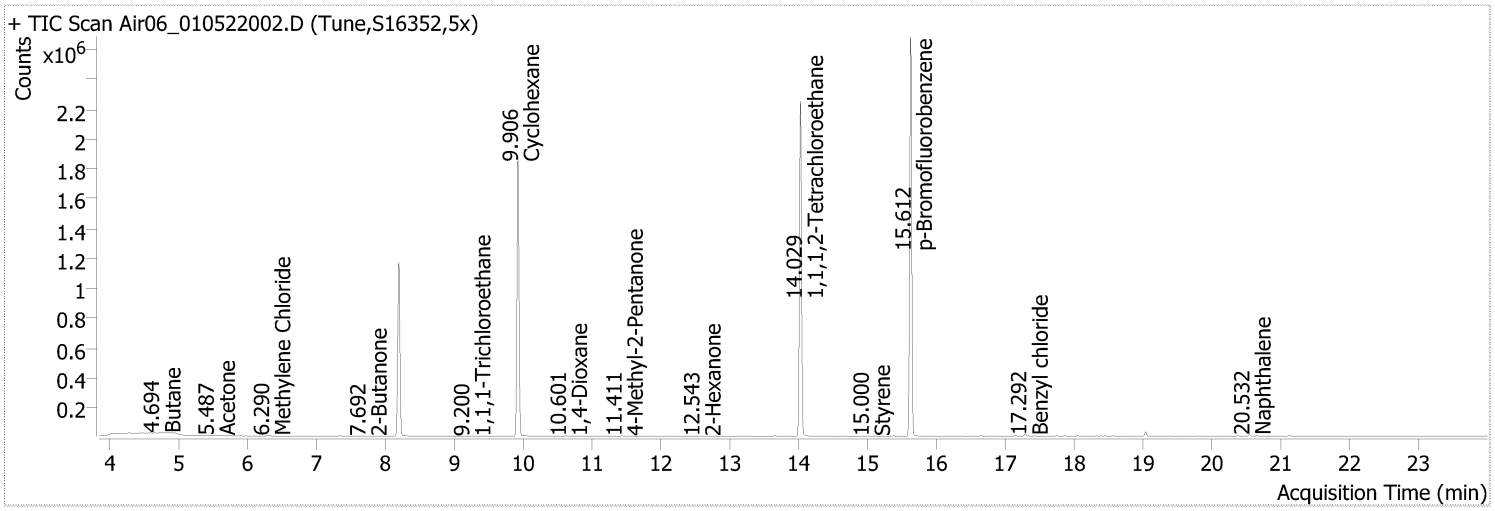
Standards: S16352 (5X)

| Mass | Ion Abundance Criteria | Abundance | % Relative Abundance | Q |
|---|---|---|---|---|
| 50 | 8% - 40% of mass 95 | 119319 | 22.36 | |
| 75 | 30% - 66% of mass 95 | 251071 | 47.05 | |
| 95 | | 533656 | 100.00 | |
| 96 | 5% - 9% of mass 95 | 35471 | 6.65 | |
| 173 | < 2% of mass 174 | 0 | 0.00 | |
| 174 | 50% - 120% of mass 95 | 463298 | 86.82 | |
| 175 | 4% - 9% of mass 174 | 36452 | 7.87 | |
| 176 | 93% - 101% of mass 174 | 452917 | 97.76 | |
| 177 | 5% - 9% of mass 176 | 30130 | 6.65 | |

Analyst: DJL Date: 01/06/22 Reviewer: SLL Date: 01/07/22

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522002.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 1:37:57 PM |
| Sample Name | Tune,S16352,5x | Instrument | Air-MS-06 |
| Vial | 6 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 220105_ICAL.batch.bin | Last Calib Update | 1/4/2022 2:39:29 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



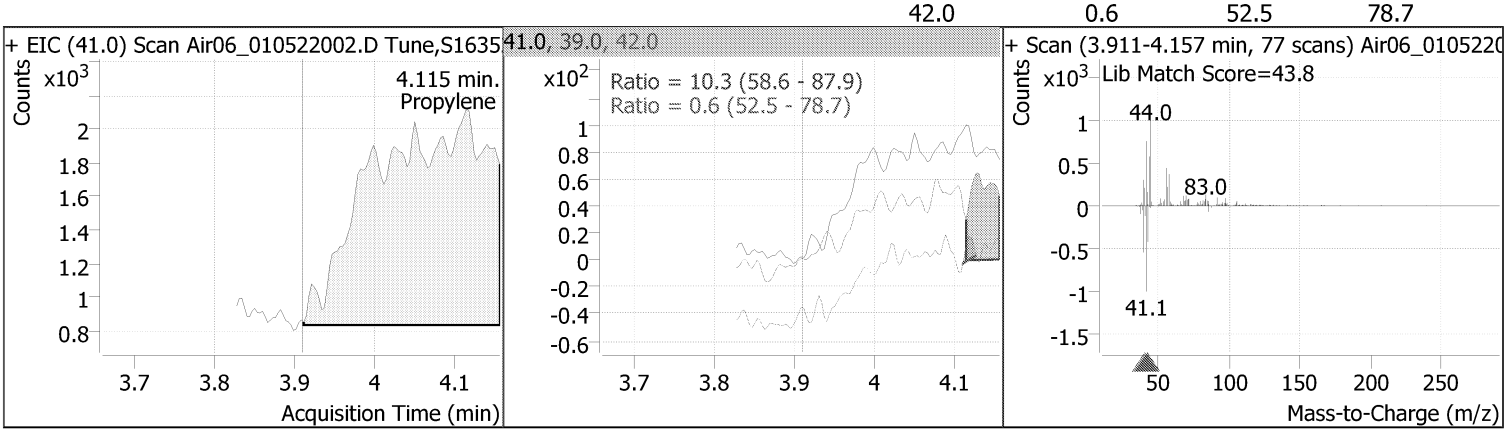

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 415875 | 10.0000 | nL/L | | 0.000 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1582252 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 818628 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1089499 | 10.3322 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 103.32% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 4.115 | 41.0 | 12519 | 0.2786 | nL/L | # | 22 |
| T Freon 12 | 3.982 | 85.0 | 74 | 0.0006 | nL/L | | 53 |
| T Chloromethane | 4.261 | 50.0 | 2538 | 0.0493 | nL/L | # | 50 |
| T Freon 114 | 4.387 | 135.0 | 128 | 0.0015 | nL/L | # | 19 |
| T Vinyl Chloride | 4.241 | 62.0 | 186 | 0.0036 | nL/L | # | 58 |
| T 1,3-Butadiene | 4.468 | 54.0 | 65 | 0.0015 | nL/L | # | 1 |
| T Butane | 4.694 | 43.0 | 407 | 0.0049 | nL/L | # | 1 |
| T Bromomethane | 4.766 | 96.0 | 154 | 0.0038 | nL/L | # | 29 |
| T Chloroethane | 4.866 | 64.0 | 436 | 0.0170 | nL/L | # | 55 |
| T Ethanol | 5.031 | 45.0 | 1658 | 0.0614 | nL/L | # | 91 |
| T Vinyl bromide | 5.025 | 108.0 | 102 | 0.0024 | nL/L | # | 6 |
| T Acrolein | 5.332 | 56.0 | 111 | 0.0051 | nL/L | | 19 |
| T Acetone | 5.487 | 58.0 | 1263 | 0.0441 | nL/L | # | 71 |
| T Trichloromonofluoromethane | 0.000 | | 0 | N.D. | | | |
| T Isopropanol (IPA) | 5.717 | 45.0 | 2200 | 0.0229 | nL/L | # | 87 |
| T n-Pentane | 0.000 | | 0 | N.D. | | | |
| T 1,1-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Tert-butyl alcohol (TBA) | 6.310 | 59.0 | 1476 | 0.0141 | nL/L | # | 66 |
| T Methylene Chloride | 6.290 | 84.0 | 1754 | 0.0380 | nL/L | # | 94 |
| T 3-Chloropropene | 6.578 | 76.0 | 228 | 0.0116 | nL/L | | 42 |
| T Freon 113 | 0.000 | | 0 | N.D. | | | |
| T Carbon Disulfide | 6.578 | 76.0 | 228 | 0.0017 | nL/L | # | 48 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.119 | 61.0 | 40 | 0.0005 | nL/L | # | 24 |
| T 1,1-Dichloroethane | 7.297 | 63.0 | 23 | 0.0002 | nL/L | # | 1 |
| T MTBE | 7.417 | 73.0 | 144 | 0.0011 | nL/L | # | 1 |
| T Vinyl Acetate | 7.413 | 43.0 | 349 | 0.0023 | nL/L | | 83 |
| T 2-Butanone | 7.692 | 43.0 | 1482 | 0.0120 | nL/L | # | 86 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 35 | 0.0004 | nL/L | # | 25 |
| T Ethyl Acetate | 8.038 | 61.0 | 35 | 0.0019 | nL/L | # | 1 |
| T n-Hexane | 8.394 | 57.0 | 113 | 0.0013 | nL/L | # | 27 |
| T Chloroform | 8.333 | 83.0 | 48 | 0.0004 | nL/L | # | 18 |
| T Tetrahydrofuran | 8.659 | 72.0 | 21 | 0.0010 | nL/L | # | 1 |
| T 1,2-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 189 | 0.0018 | nL/L | # | 35 |
| T Benzene | 9.608 | 78.0 | 875 | 0.0062 | nL/L | # | 88 |
| T Carbon Tetrachloride | 9.906 | 117.0 | 48 | 0.0004 | nL/L | # | 1 |
| T Cyclohexane | 9.906 | 84.0 | 1157 | 0.0201 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 0.000 | | 0 | N.D. | | | |
| T Methane, bromodichloro- | 10.449 | 83.0 | 67 | 0.0006 | nL/L | | 76 |
| T 1,4-Dioxane | 10.601 | 88.0 | 1514 | 0.0481 | nL/L | # | 72 |
| T Trichloroethene | 10.550 | 132.0 | 201 | 0.0033 | nL/L | # | 3 |
| T 2,2,4-Trimethylpentane | 10.608 | 57.0 | 763 | 0.0027 | nL/L | # | 83 |
| T Methyl methacrylate | 10.734 | 69.0 | 224 | 0.0043 | nL/L | # | 1 |
| T n-Heptane | 10.847 | 71.0 | 92 | 0.0019 | nL/L | # | 64 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 23 | 0.0012 | nL/L | # | 1 |
| T 4-Methyl-2-Pentanone | 11.411 | 58.0 | 1685 | 0.0320 | nL/L | # | 54 |
| T trans-1,3-Dichloropropene | 11.815 | 110.0 | 49 | 0.0026 | nL/L | # | 6 |
| T 1,1,2-Trichloroethane | 11.977 | 97.0 | 358 | 0.0058 | nL/L | # | 32 |
| T Toluene | 12.275 | 91.0 | 955 | 0.0054 | nL/L | # | 59 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 2800613 | 0.2434 | nL/L | | 100 |
| T 2-Hexanone | 12.543 | 58.0 | 836 | 0.0124 | nL/L | # | 79 |
| T Dibromochloromethane | 12.663 | 129.0 | 36 | 0.0003 | nL/L | # | 55 |
| T 1,2-Dibromoethane | 12.919 | 108.9 | 37 | 0.0004 | nL/L | # | 62 |
| T Tetrachloroethene | 0.000 | | 0 | N.D. | | | |
| T 1,1,1,2-Tetrachloroethane | 14.029 | 131.0 | 22 | 0.0003 | nL/L | # | 1 |
| T Benzene, chloro- | 14.052 | 112.0 | 152 | 0.0012 | nL/L | | 31 |
| T Ethylbenzene | 14.443 | 91.0 | 396 | 0.0020 | nL/L | # | 72 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 1066572 | 0.1230 | nL/L | | 100 |
| T m,p-Xylenes | 14.618 | 91.0 | 691 | 0.0041 | nL/L | # | 70 |
| T Bromoform | 14.699 | 173.0 | 306 | 0.0025 | nL/L | # | 70 |
| T Styrene | 15.000 | 104.0 | 512 | 0.0042 | nL/L | # | 64 |
| T 1,1,2,2-Tetrachloroethane | 15.100 | 83.0 | 266 | 0.0021 | nL/L | # | 67 |
| T o-Xylene | 15.126 | 91.0 | 408 | 0.0024 | nL/L | # | 45 |
| T n-Nonane | 15.366 | 85.0 | 364 | 0.0097 | nL/L | # | 29 |
| T Isopropylbenzene | 15.774 | 105.0 | 557 | 0.0024 | nL/L | # | 74 |
| T 2-Chlorotoluene | 16.314 | 126.0 | 172 | 0.0031 | nL/L | # | 1 |
| T n-Propylbenzene | 16.359 | 120.0 | 277 | 0.0045 | nL/L | | 61 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 1162 | 0.0051 | nL/L | # | 89 |
| T 1,3,5-Trimethylbenzene | 16.635 | 105.0 | 1090 | 0.0054 | nL/L | # | 79 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 2080 | 0.0109 | nL/L | # | 84 |
| T Benzyl chloride | 17.292 | 91.0 | 526 | 0.0031 | nL/L | # | 69 |
| T 1,3-Dichlorobenzene | 17.331 | 146.0 | 1155 | 0.0083 | nL/L | # | 60 |
| T 1,4-Dichlorobenzene | 17.405 | 146.0 | 1250 | 0.0089 | nL/L | # | 78 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 1775 | 0.0133 | nL/L | # | 90 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 2464 | 0.0231 | nL/L | # | 96 |
| T Naphthalene | 20.532 | 128.0 | 10226 | 0.0510 | nL/L | | 98 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.117 | 225.0 | 1697 | 0.0130 | nL/L | | 93 |

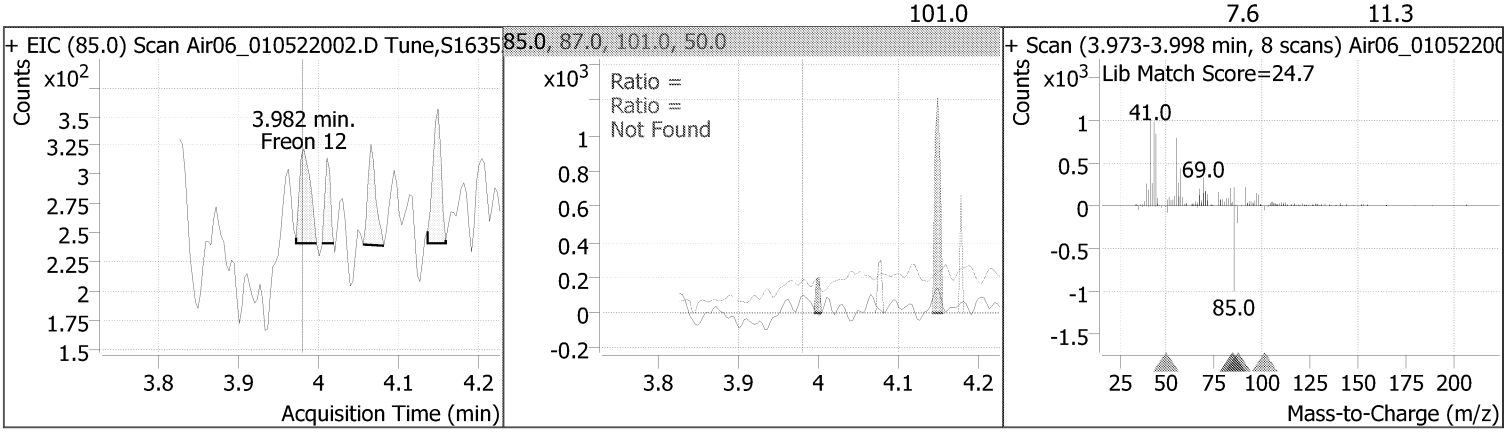
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

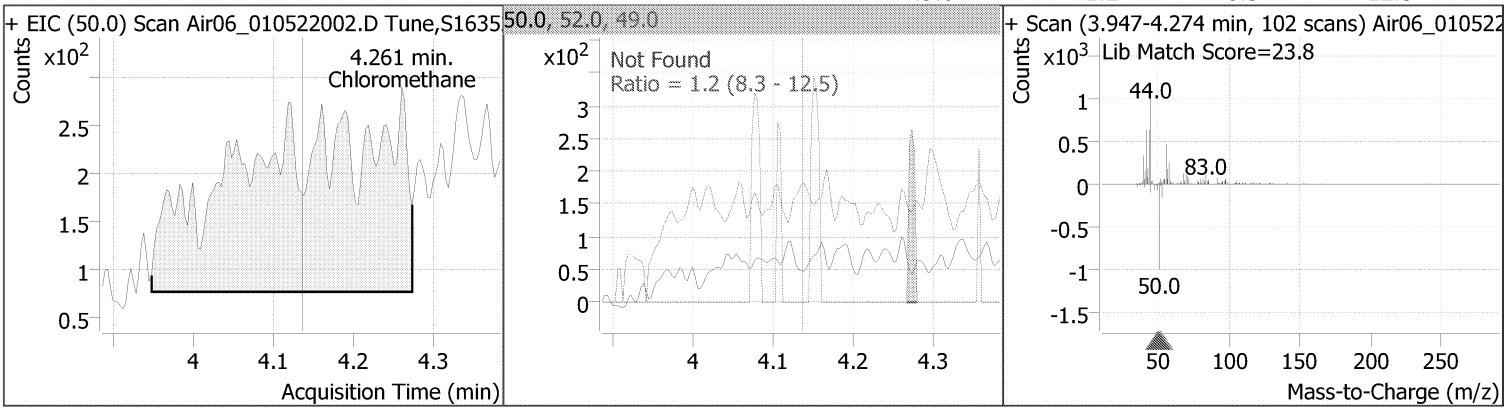
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.2786 | 4.12 | 0.21 | 12519 | 39.0 | 10.3 | 58.6 | 87.9 |
| | | | | | 42.0 | 0.6 | 52.5 | 78.7 |



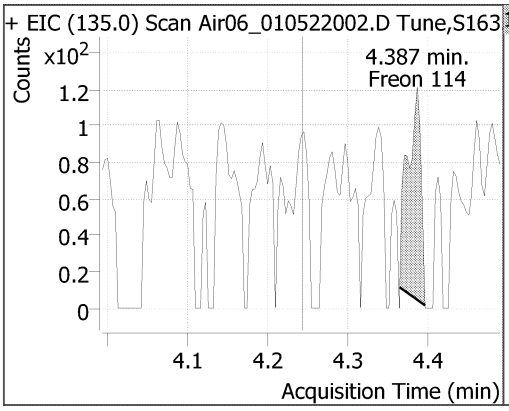

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.0006 | 3.98 | 0.00 | 74 | 87.0 | | 26.0 | 38.9 |
| | | | | | 50.0 | | 11.2 | 16.8 |
| | | | | | 101.0 | | 7.6 | 11.3 |

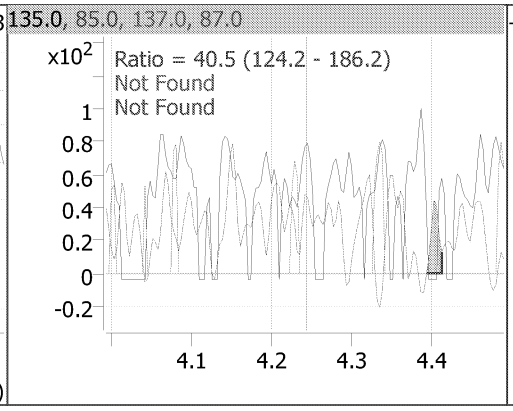


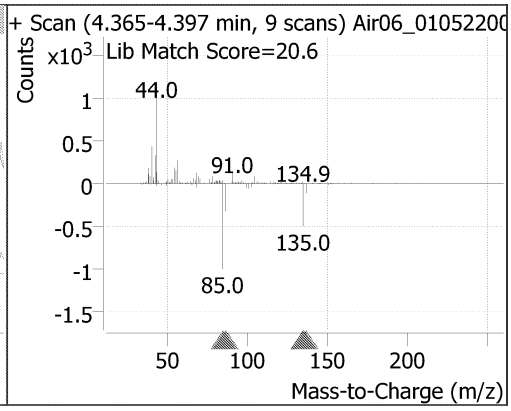

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0493 | 4.26 | 0.13 | 2538 | 52.0 | | 25.8 | 38.7 |
| | | | | | 49.0 | 1.2 | 8.3 | 12.5 |



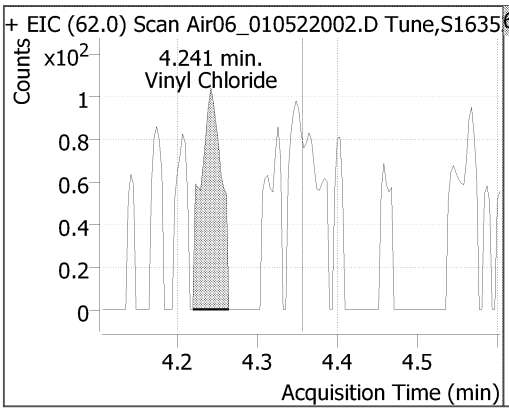
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.0015 | 4.39 | 0.15 | 128 | 85.0 | 40.5 | 124.2 | 186.2 |
| | | | | | 87.0 | | 39.8 | 59.7 |
| | | | | | 137.0 | | 25.9 | 38.9 |

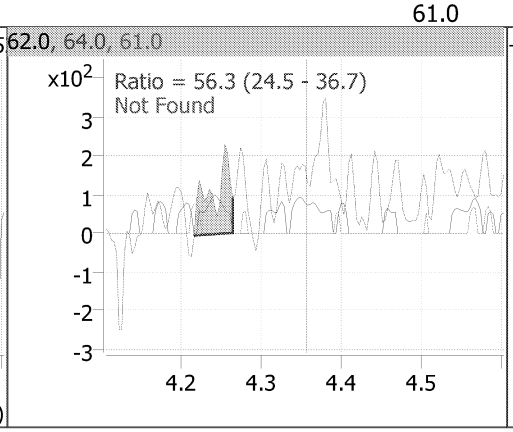


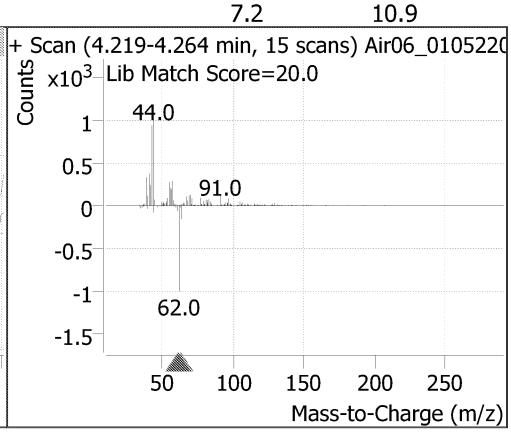



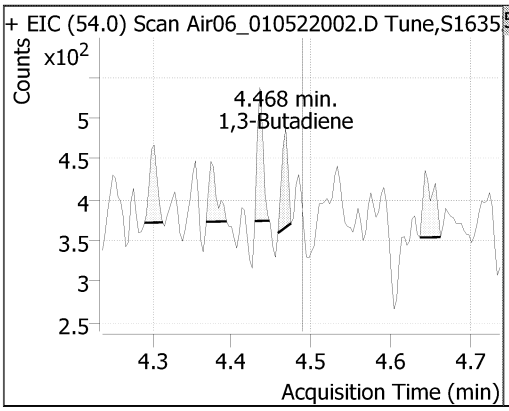

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.0036 | 4.24 | -0.11 | 186 | 64.0 | 56.3 | 24.5 | 36.7 |
| | | | | | 61.0 | | 7.2 | 10.9 |

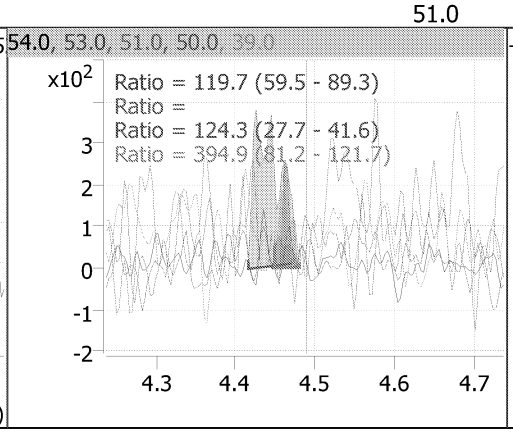


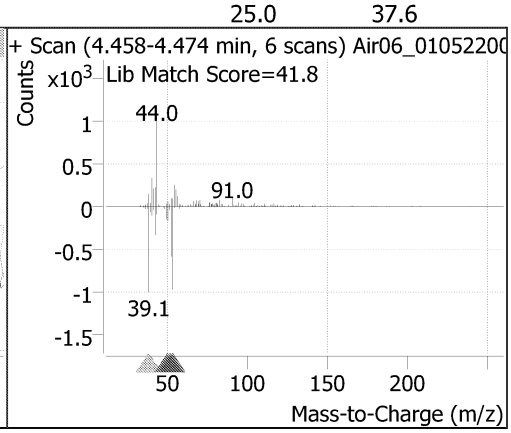




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0015 | 4.47 | -0.02 | 65 | 39.0 | 394.9 | 81.2 | 121.7 |
| | | | | | 53.0 | 119.7 | 59.5 | 89.3 |
| | | | | | 50.0 | 124.3 | 27.7 | 41.6 |
| | | | | | 51.0 | | 25.0 | 37.6 |

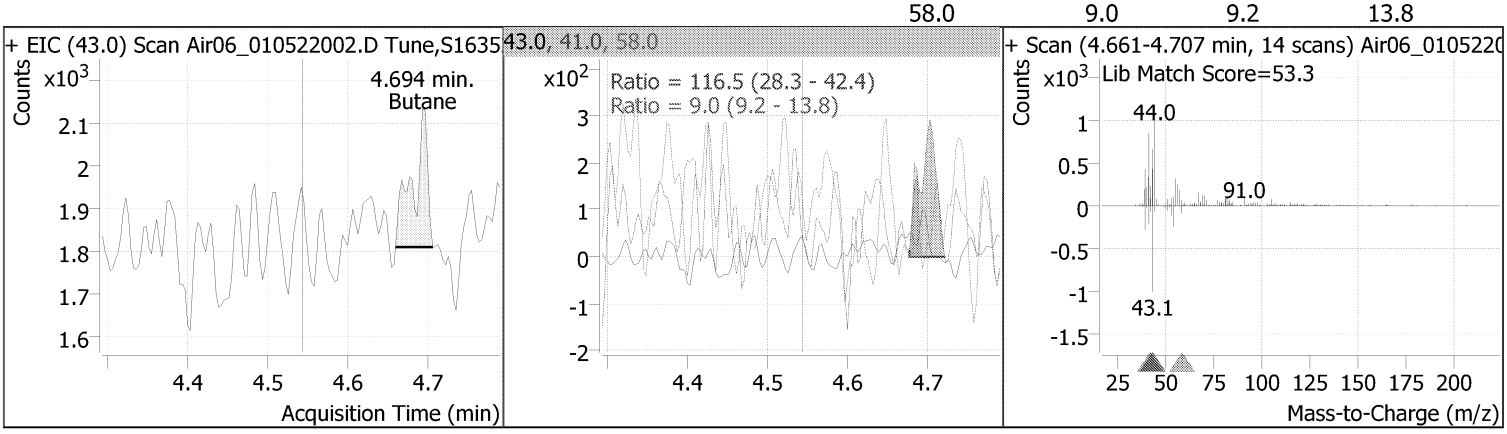


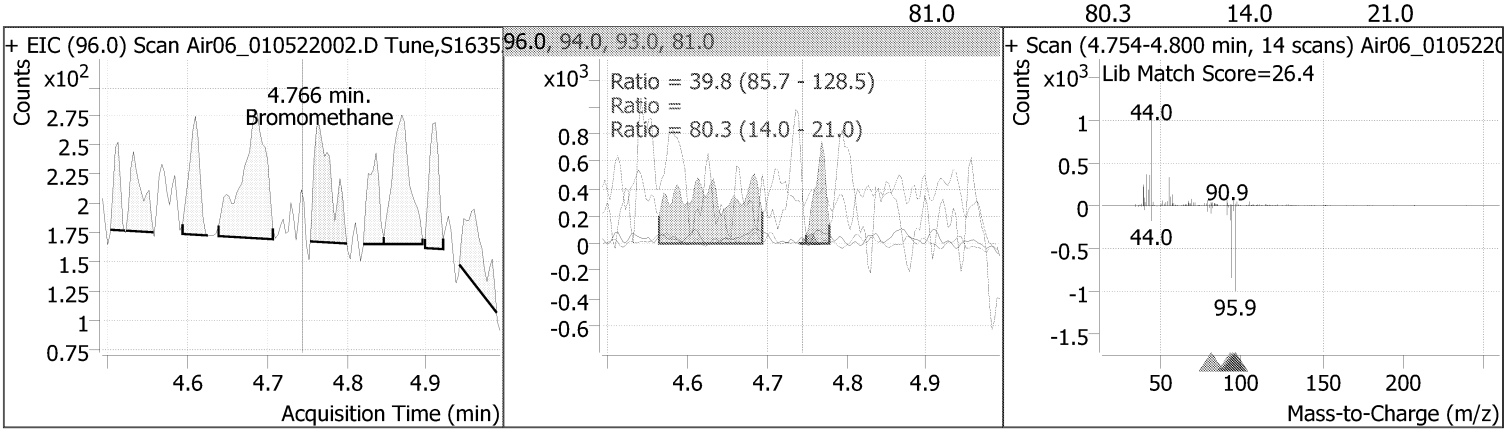



# Quantitation Results Report (Not Reviewed)

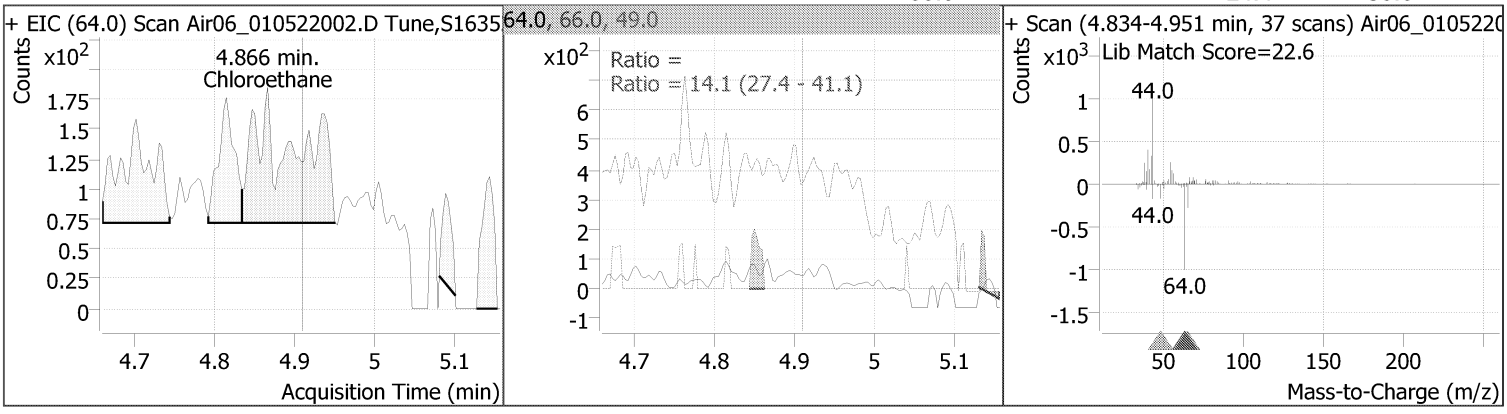
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0049 | 4.69 | 0.15 | 407 | 41.0 | 116.5 | 28.3 | 42.4 |
| | | | | | 58.0 | 9.0 | 9.2 | 13.8 |



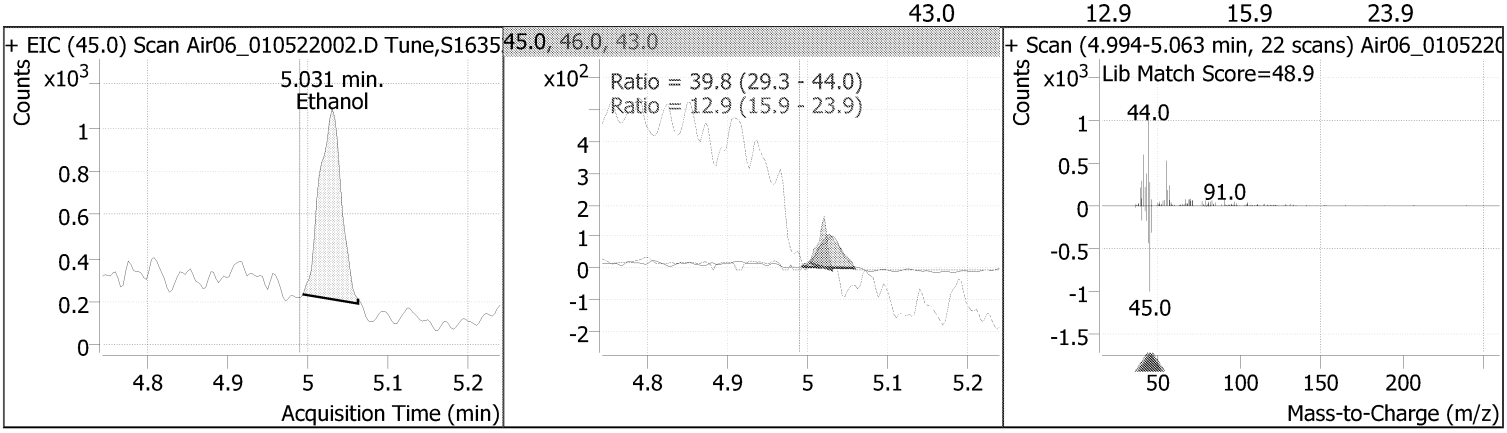

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 0.0038 | 4.77 | 0.02 | 154 | 94.0 | 39.8 | 85.7 | 128.5 |
| | | | | | 93.0 | | 18.1 | 27.1 |
| | | | | | 81.0 | 80.3 | 14.0 | 21.0 |



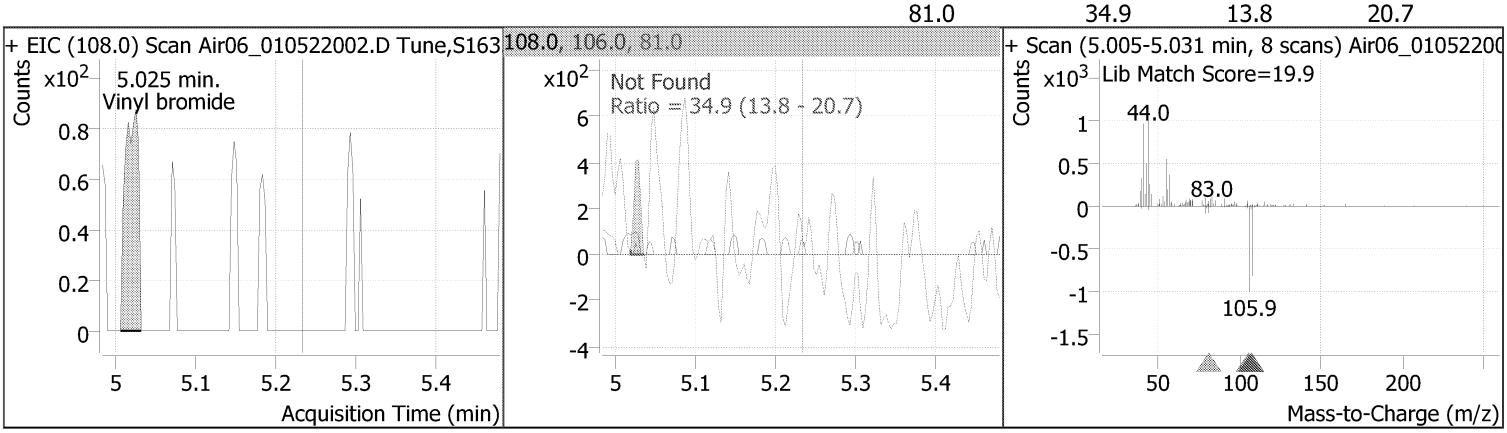

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.0170 | 4.87 | -0.04 | 436 | 49.0 | 14.1 | 27.4 | 41.1 |
| | | | | | 66.0 | | 24.4 | 36.6 |



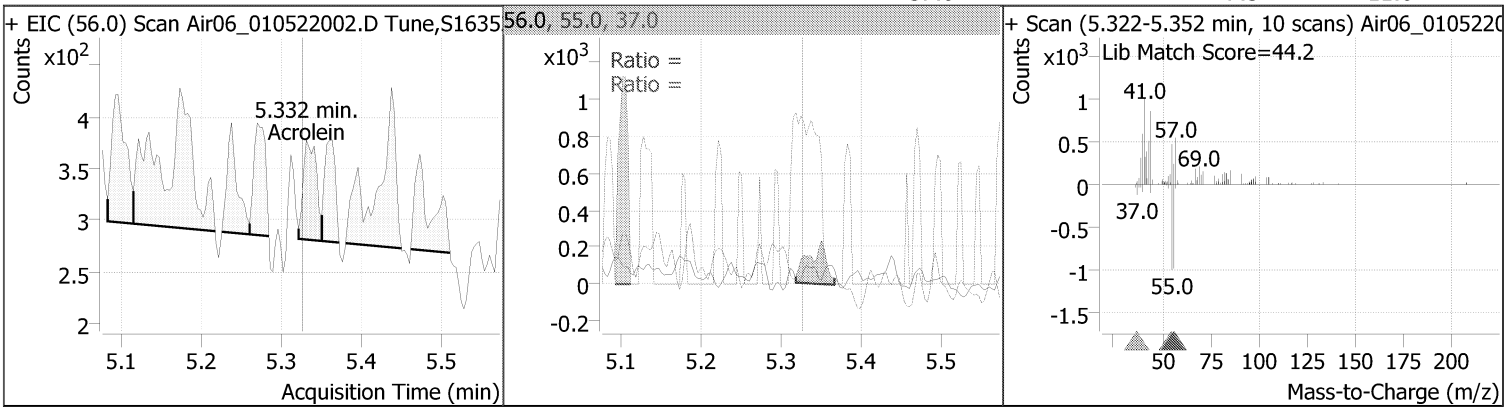
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.0614 | 5.03 | 0.04 | 1658 | 46.0 | 39.8 | 29.3 | 44.0 |
| | | | | | 43.0 | 12.9 | 15.9 | 23.9 |



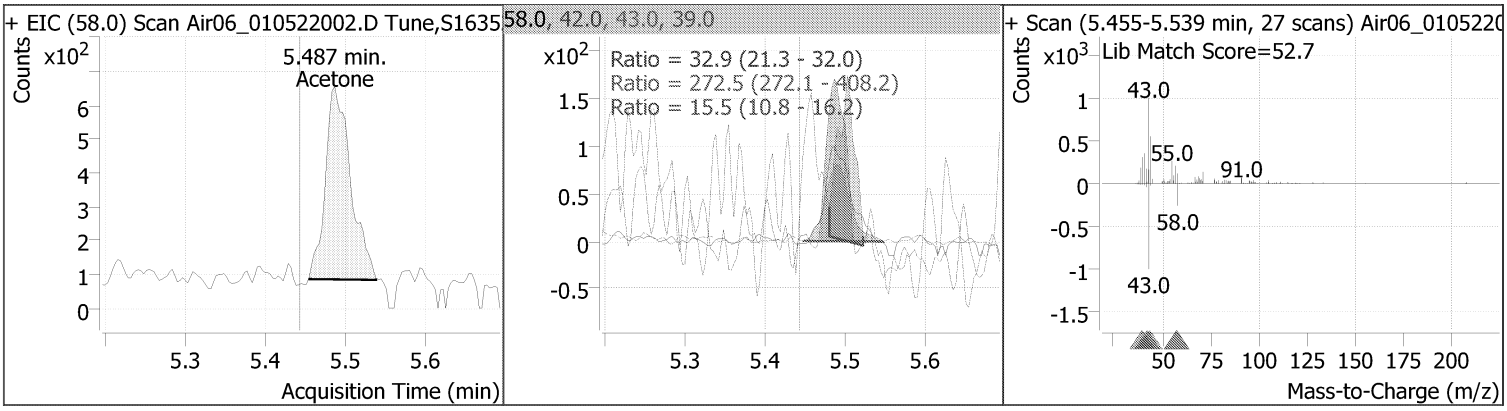

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 0.0024 | 5.02 | -0.21 | 102 | 106.0 | | 84.3 | 126.5 |
| | | | | | 81.0 | 34.9 | 13.8 | 20.7 |



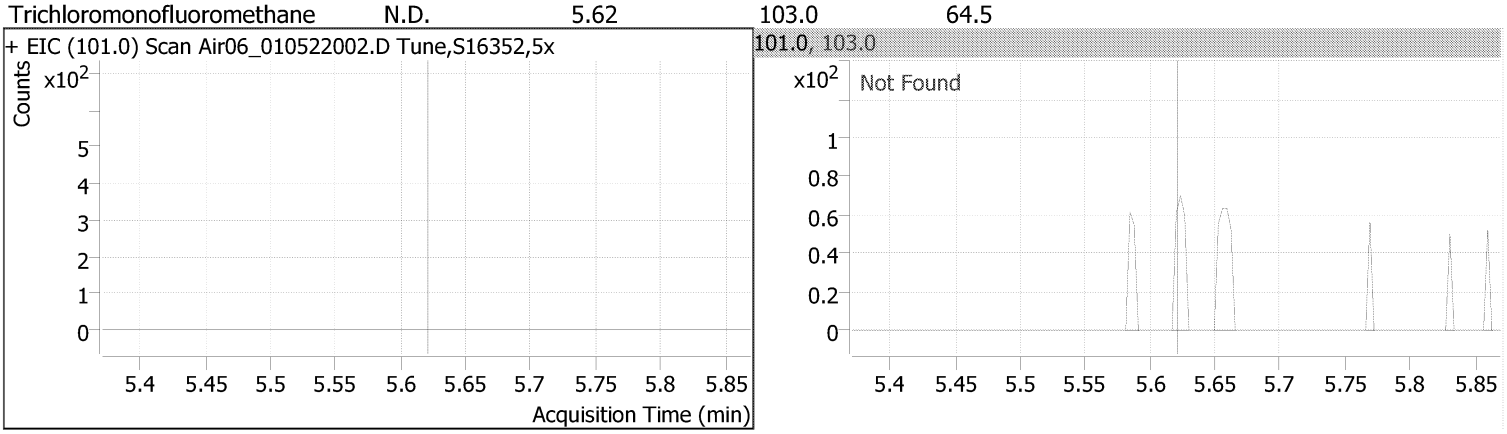

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0051 | 5.33 | 0.01 | 111 | 55.0 | | 59.2 | 88.8 |
| | | | | | 37.0 | | 7.3 | 11.0 |



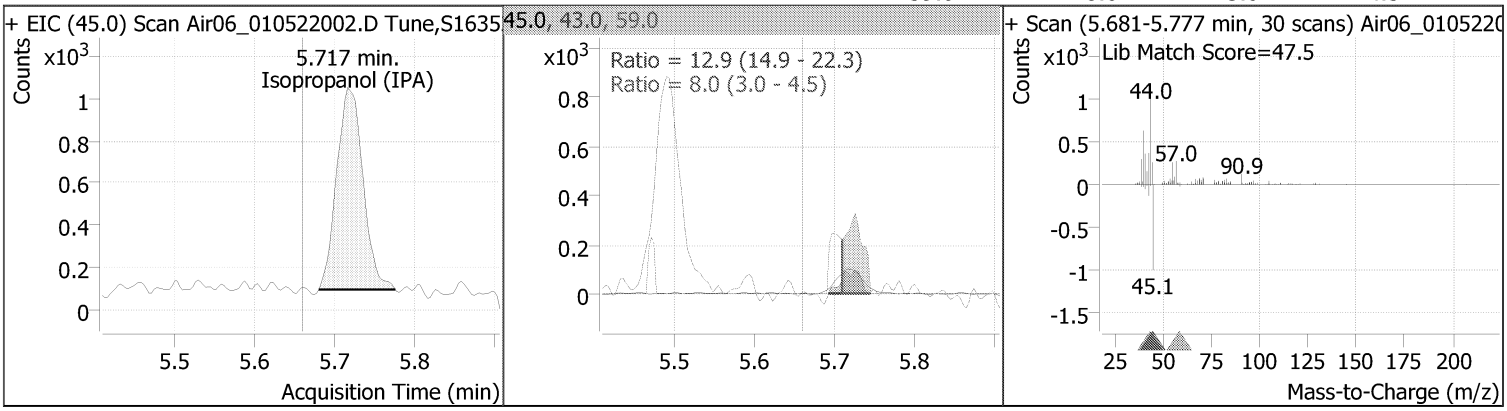
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.0441 | 5.49 | 0.04 | 1263 | 43.0 | 272.5 | 272.1 | 408.2 |
| | | | | | 42.0 | 32.9 | 21.3 | 32.0 |
| | | | | | 39.0 | 15.5 | 10.8 | 16.2 |



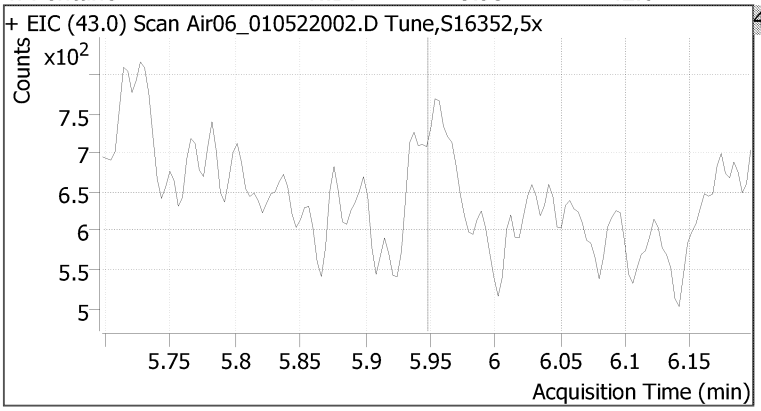

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Trichloromonofluoromethane | N.D. | 5.62 | 103.0 | 64.5 |

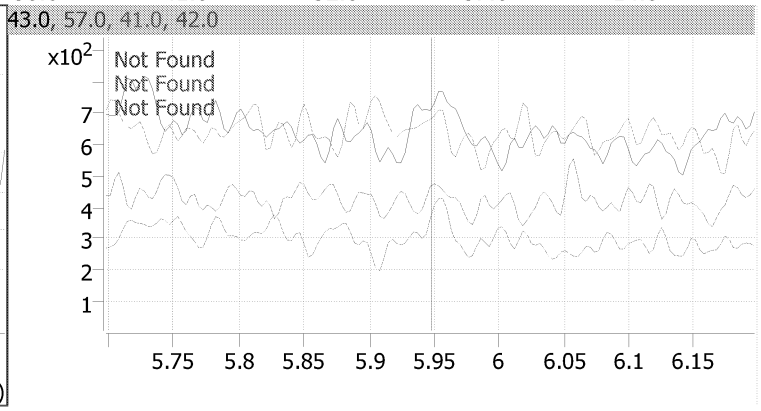



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.0229 | 5.72 | 0.06 | 2200 | 43.0 | 12.9 | 14.9 | 22.3 |
| | | | | | 59.0 | 8.0 | 3.0 | 4.5 |

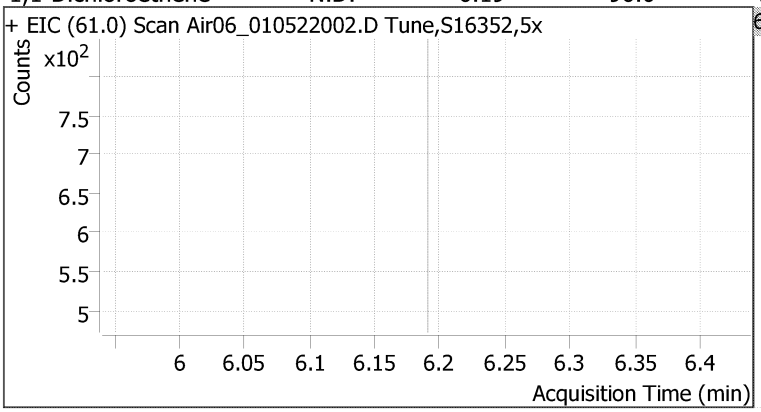


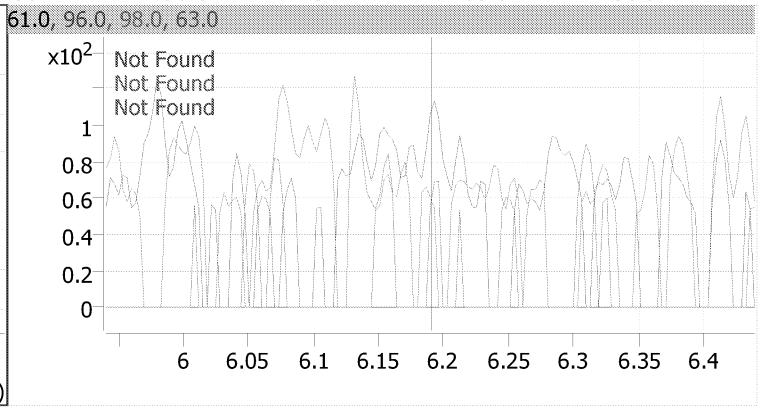
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | N.D. | 5.95 | 42.0 | 58.6 | 41.0 | 52.8 | 57.0 | 14.8 |



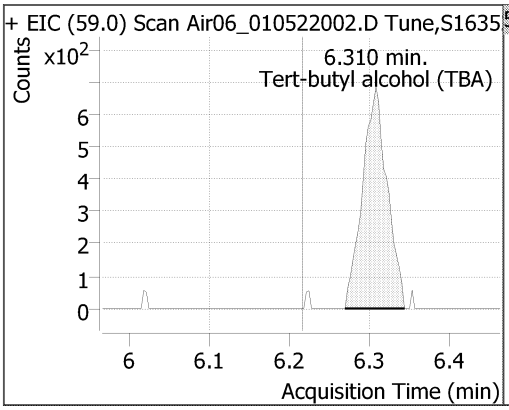



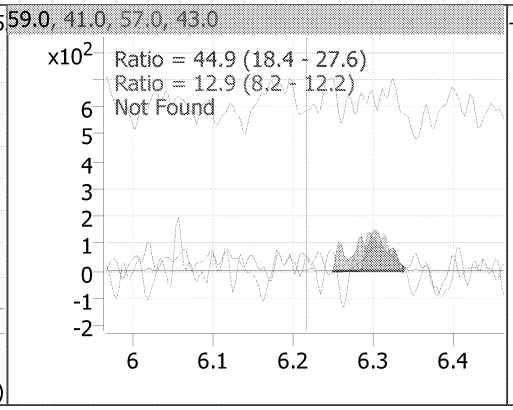

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | N.D. | 6.19 | 96.0 | 50.7 | 98.0 | 32.2 | 63.0 | 30.9 |

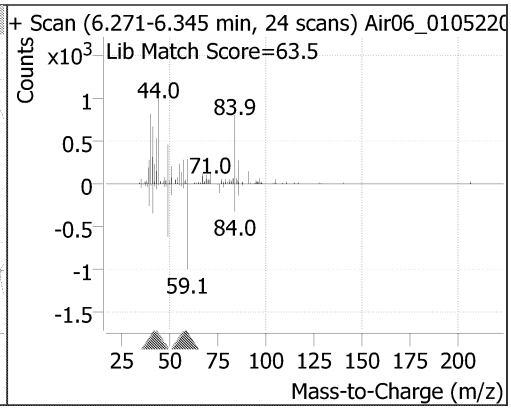



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.0141 | 6.31 | 0.09 | 1476 | 41.0 | 44.9 | 18.4 | 27.6 |
| | | | | | 43.0 | | 11.5 | 17.3 |
| | | | | | 57.0 | 12.9 | 8.2 | 12.2 |

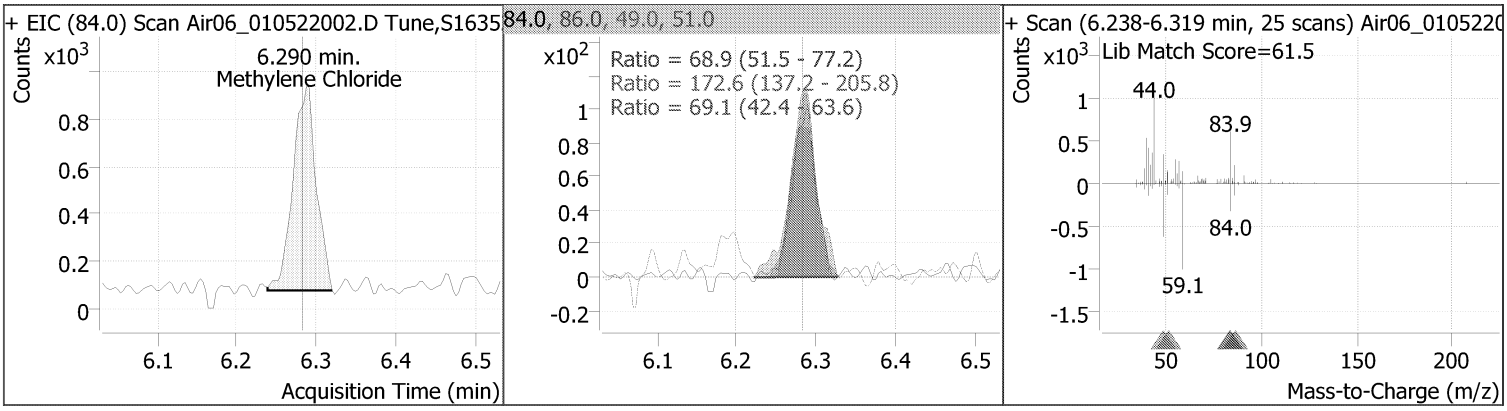


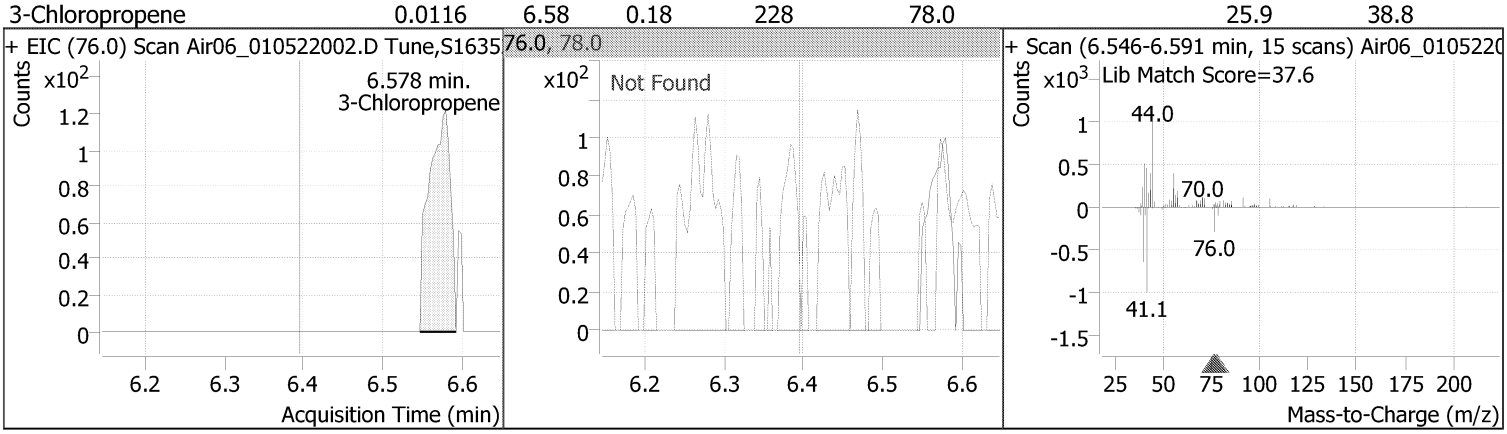



# Quantitation Results Report (Not Reviewed)

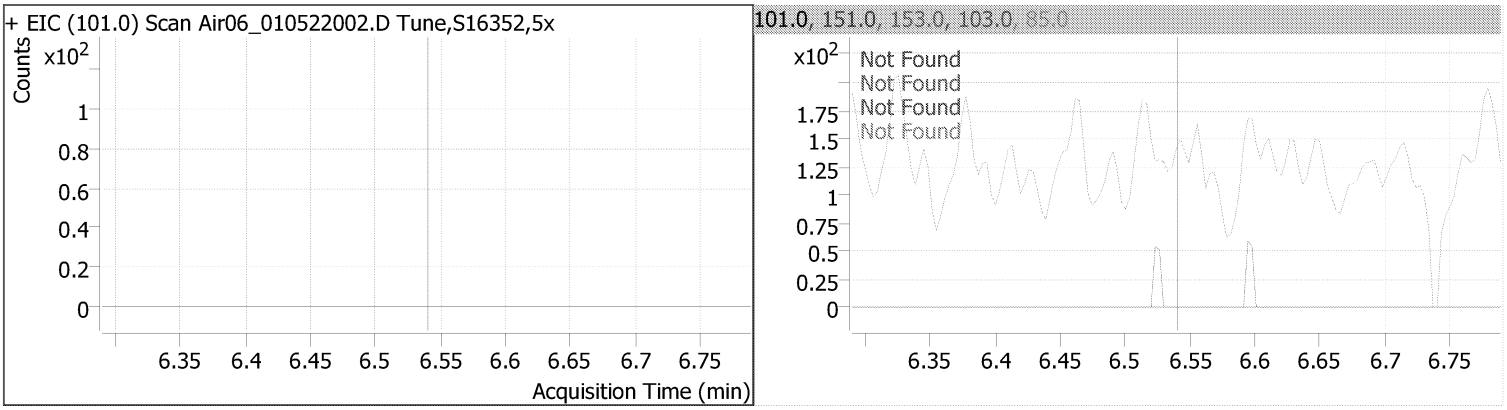
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.0380 | 6.29 | 0.01 | 1754 | 49.0 | 172.6 | 137.2 | 205.8 |
| | | | | | 86.0 | 68.9 | 51.5 | 77.2 |
| | | | | | 51.0 | 69.1 | 42.4 | 63.6 |



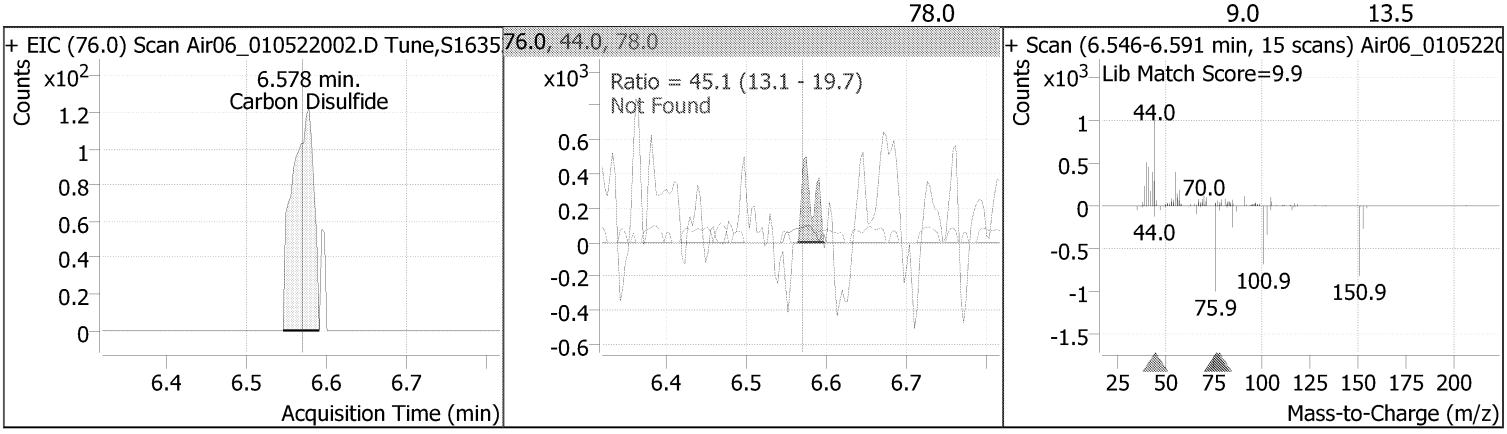

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 0.0116 | 6.58 | 0.18 | 228 | 78.0 | | 25.9 | 38.8 |



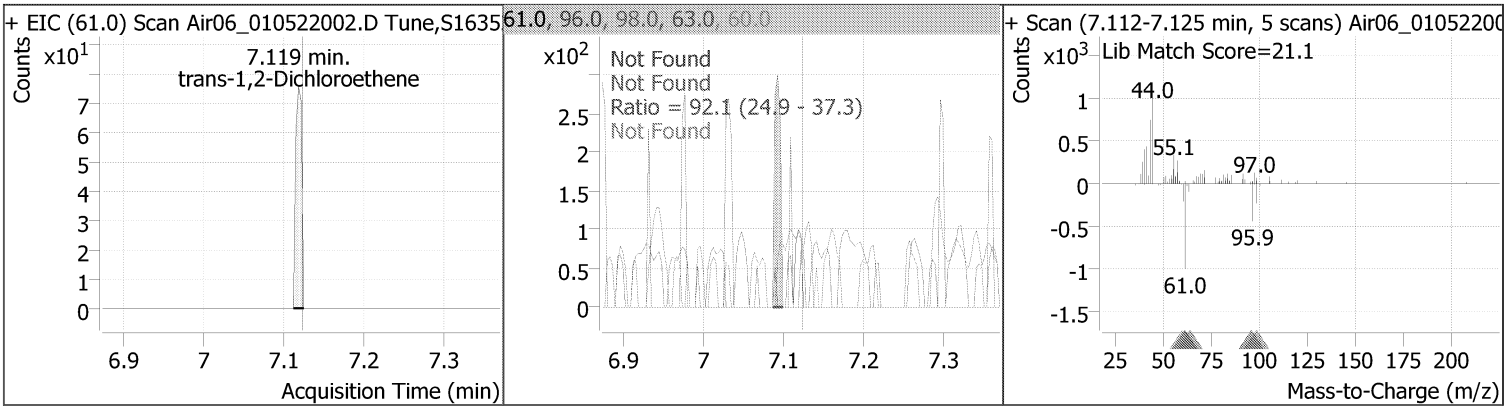

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | N.D. | 6.54 | 151.0 | 85.0 | 103.0 | 64.3 | 153.0 | 54.9 |



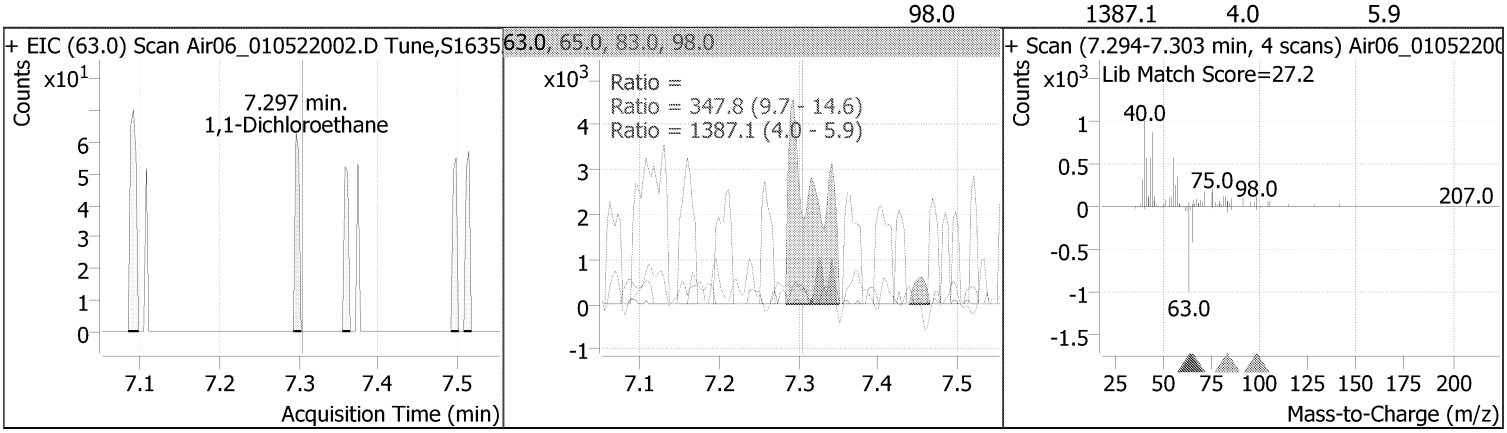
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.0017 | 6.58 | 0.01 | 228 | 44.0 | 45.1 | 13.1 | 19.7 |
| | | | | | 78.0 | | 9.0 | 13.5 |



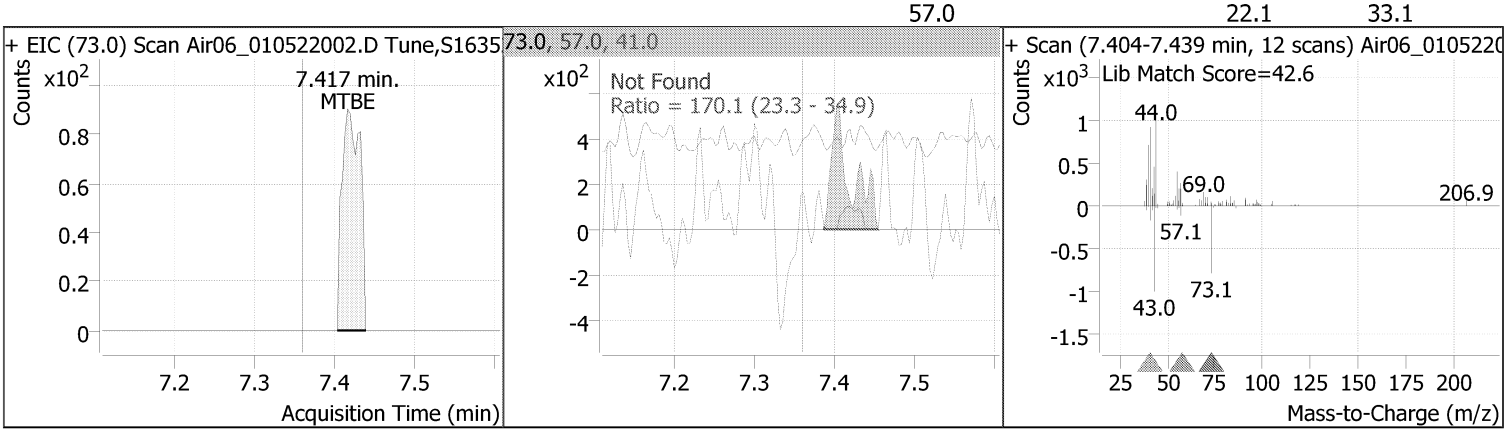

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.0005 | 7.12 | 0.00 | 40 | 96.0 | | 45.6 | 68.4 |
| | | | | | 98.0 | | 29.2 | 43.8 |
| | | | | | 63.0 | 92.1 | 24.9 | 37.3 |
| | | | | | 60.0 | | 20.9 | 31.3 |



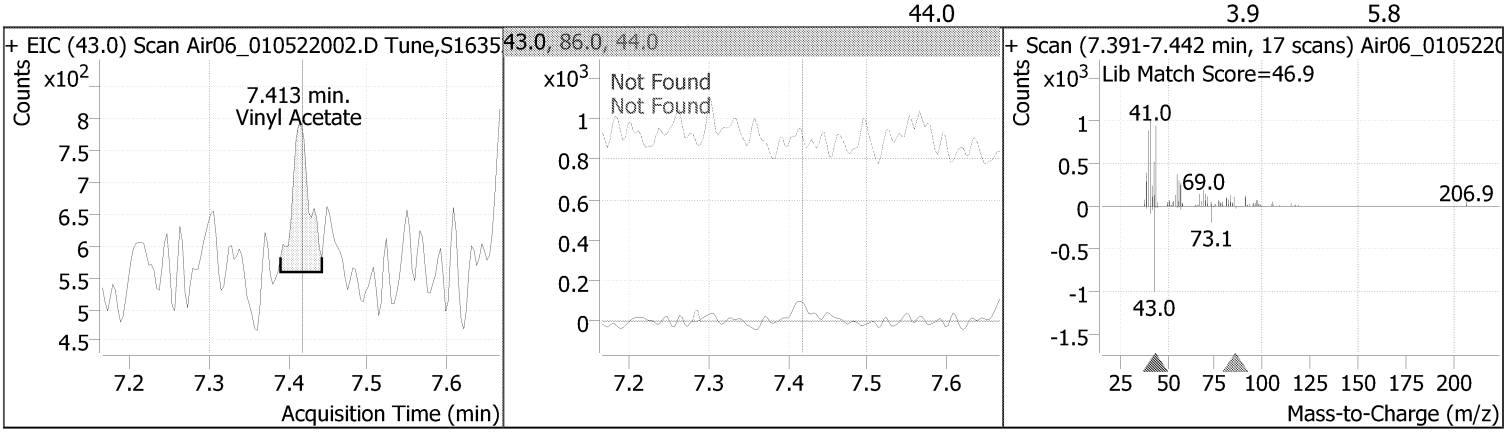

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.0002 | 7.30 | -0.01 | 23 | 65.0 | | 24.5 | 36.8 |
| | | | | | 83.0 | 347.8 | 9.7 | 14.6 |
| | | | | | 98.0 | 1387.1 | 4.0 | 5.9 |



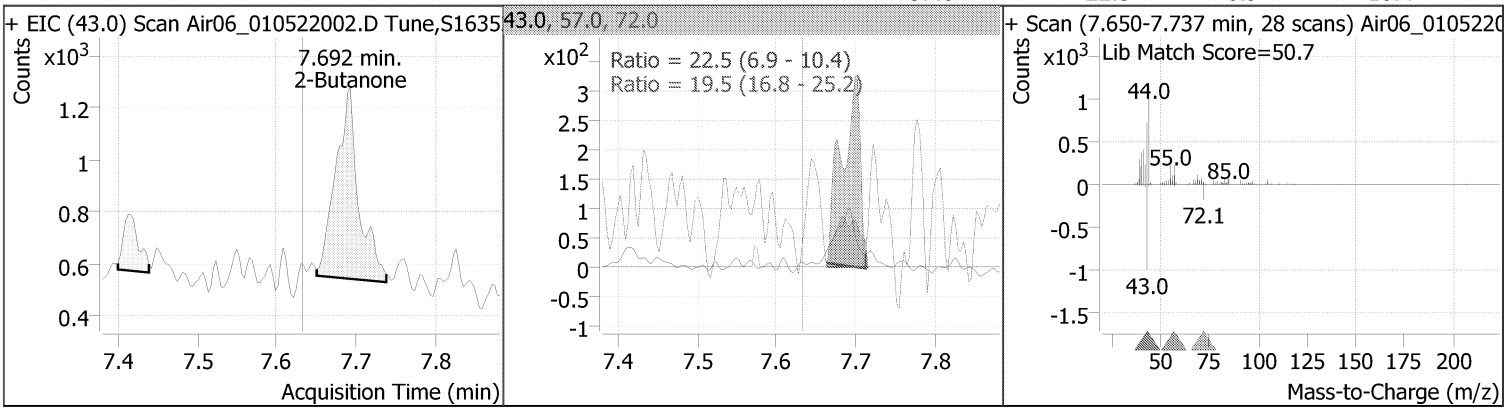
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.0011 | 7.42 | 0.06 | 144 | 41.0 | 170.1 | 23.3 | 34.9 |
| | | | | | 57.0 | | 22.1 | 33.1 |



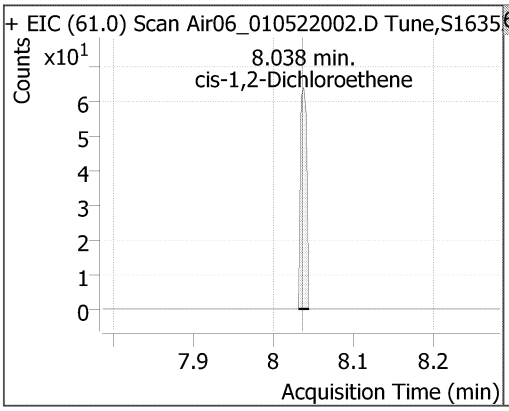

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.0023 | 7.41 | 0.00 | 349 | 86.0 | | 5.2 | 7.9 |
| | | | | | 44.0 | | 3.9 | 5.8 |

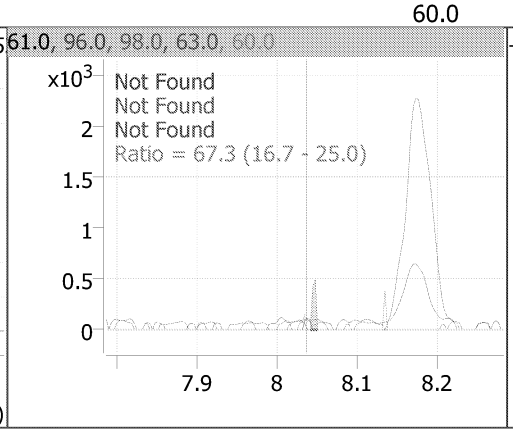


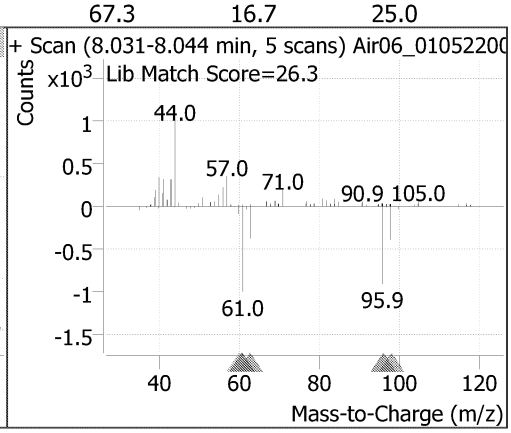

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0120 | 7.69 | 0.06 | 1482 | 72.0 | 19.5 | 16.8 | 25.2 |
| | | | | | 57.0 | 22.5 | 6.9 | 10.4 |



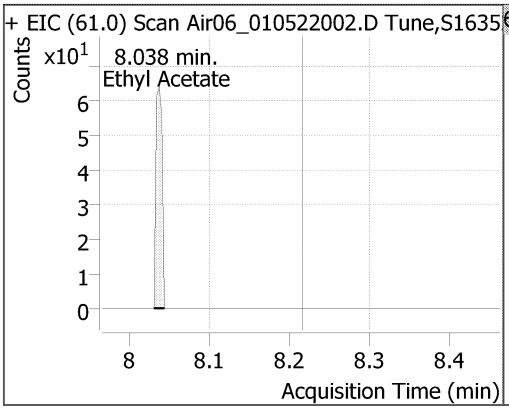
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.0004 | 8.04 | 0.00 | 35 | 96.0 | | 50.5 | 75.8 |
| | | | | | 98.0 | | 32.0 | 48.0 |
| | | | | | 63.0 | | 25.0 | 37.4 |
| | | | | | 60.0 | 67.3 | 16.7 | 25.0 |

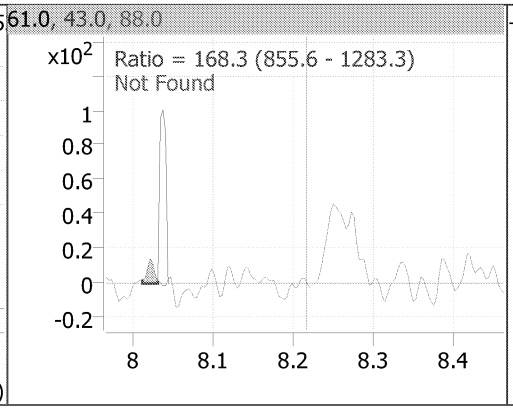


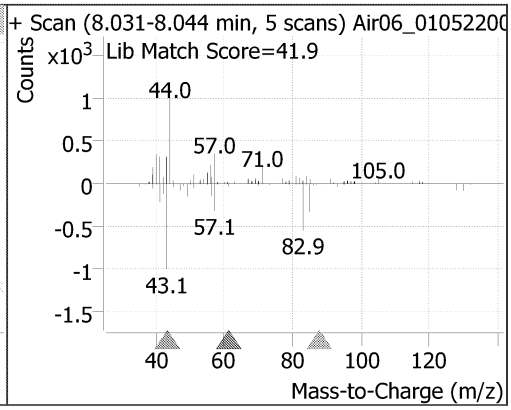



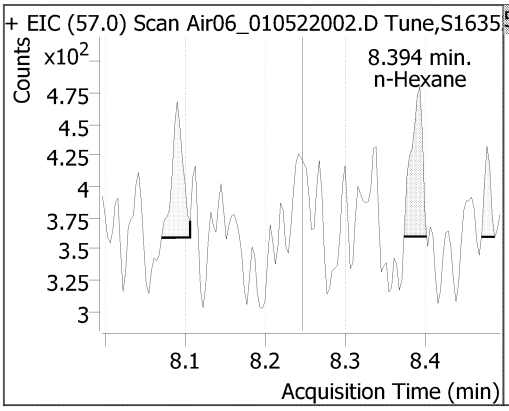

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.0019 | 8.04 | -0.18 | 35 | 43.0 | 168.3 | 855.6 | 1283.3 |
| | | | | | 88.0 | | 16.9 | 25.3 |

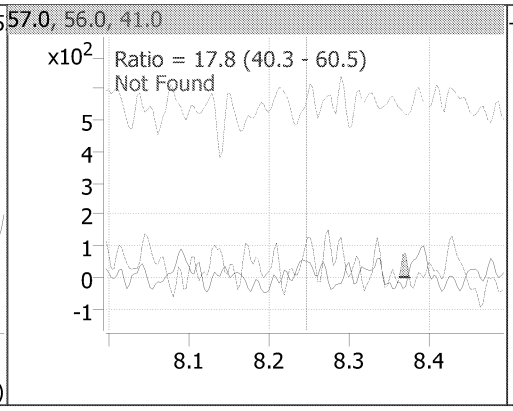


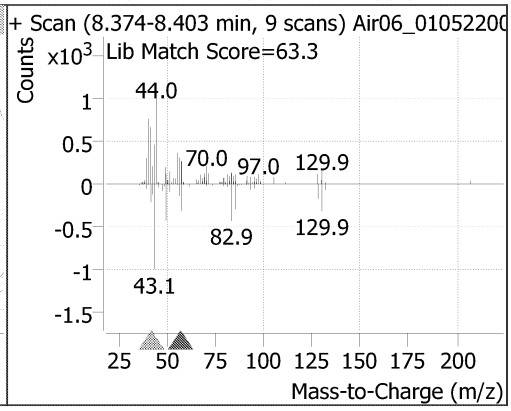



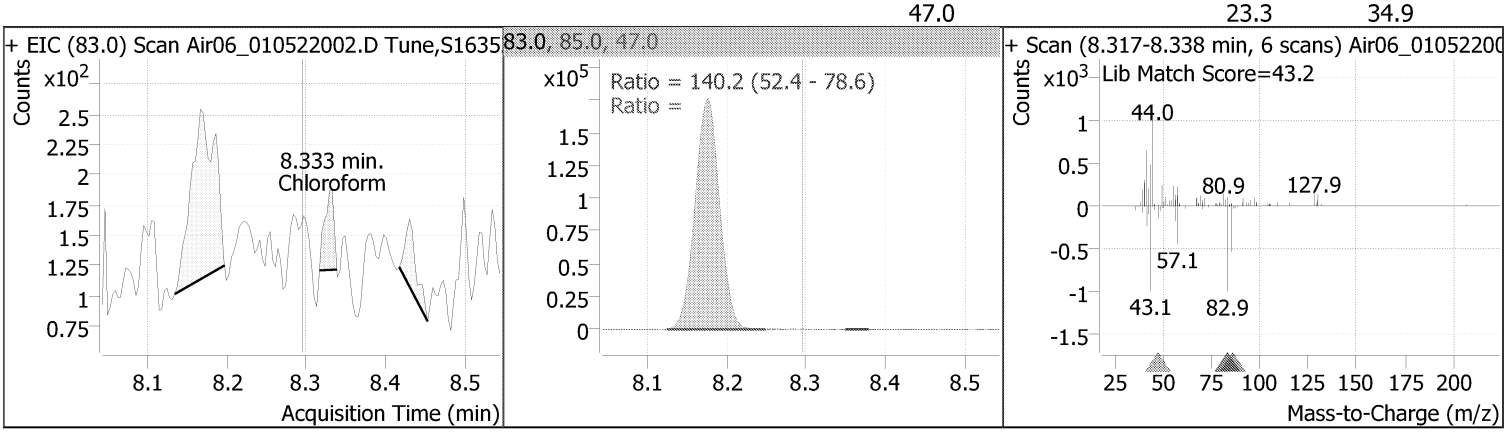

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0013 | 8.39 | 0.15 | 113 | 41.0 | | 62.9 | 94.4 |
| | | | | | 56.0 | 17.8 | 40.3 | 60.5 |



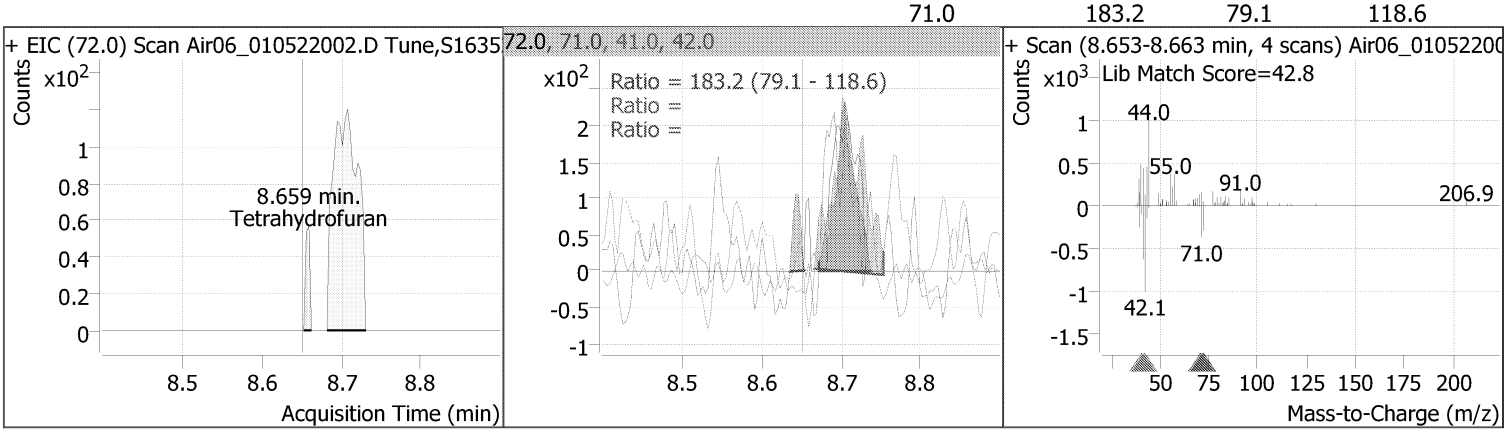



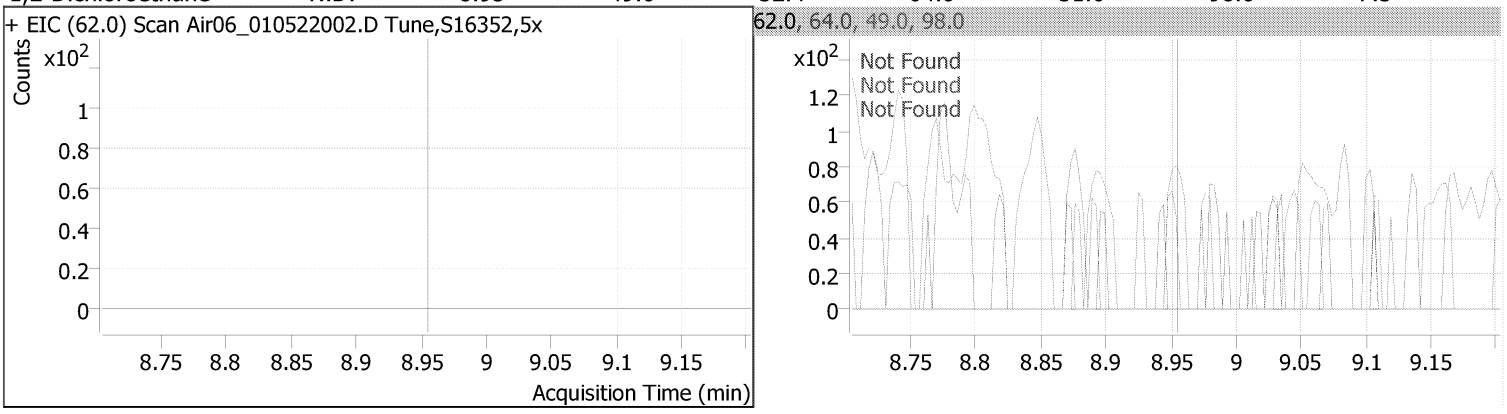
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0004 | 8.33 | 0.04 | 48 | 85.0 | 140.2 | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



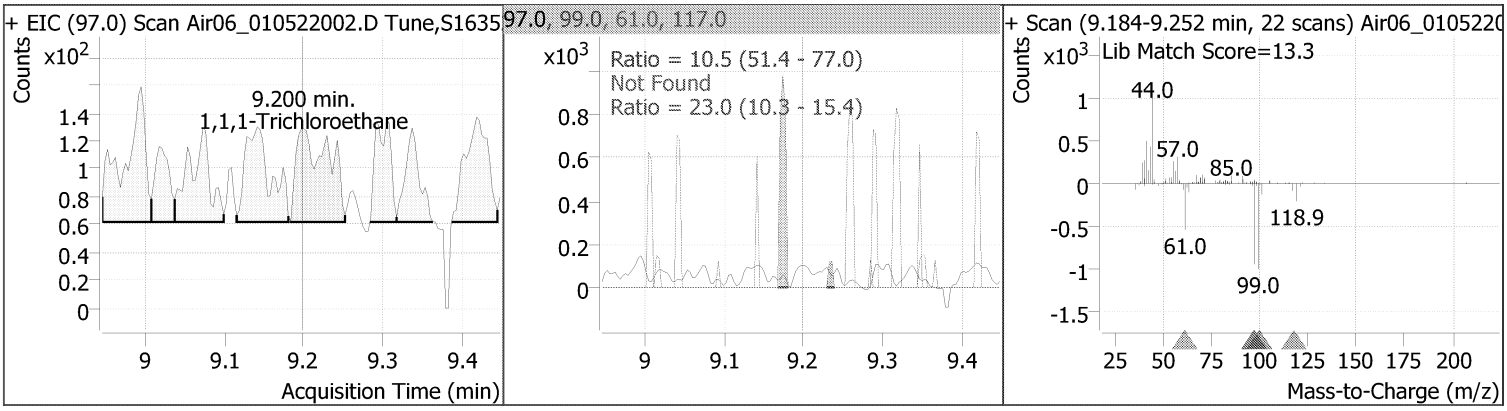

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.0010 | 8.66 | 0.01 | 21 | 42.0 | | 258.1 | 387.2 |
| | | | | | 41.0 | | 141.4 | 212.1 |
| | | | | | 71.0 | 183.2 | 79.1 | 118.6 |



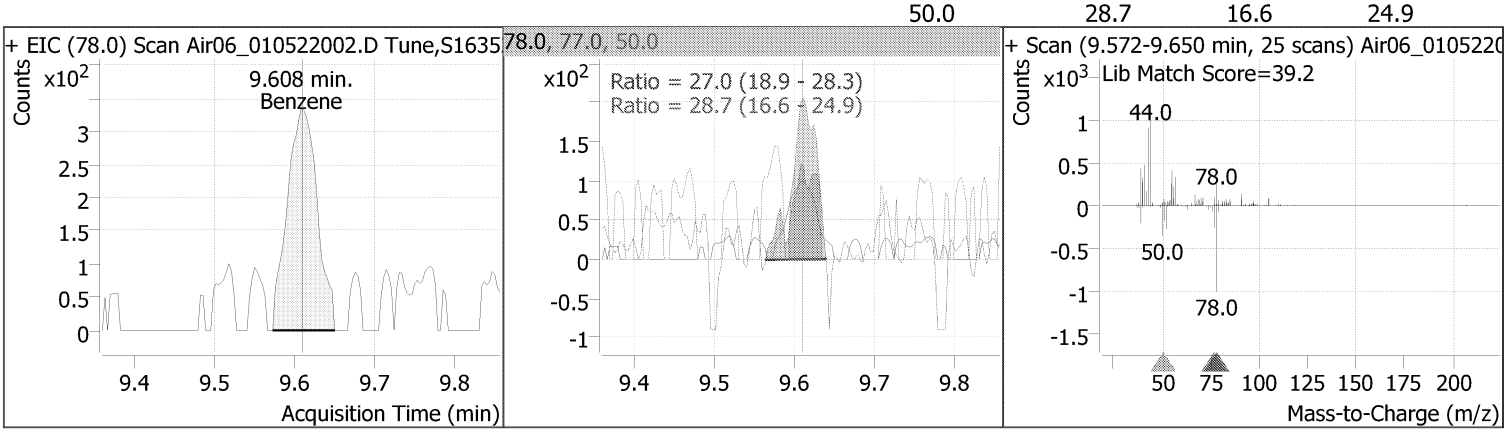

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | N.D. | 8.95 | 49.0 | 32.4 | 64.0 | 31.6 | 98.0 | 7.3 |



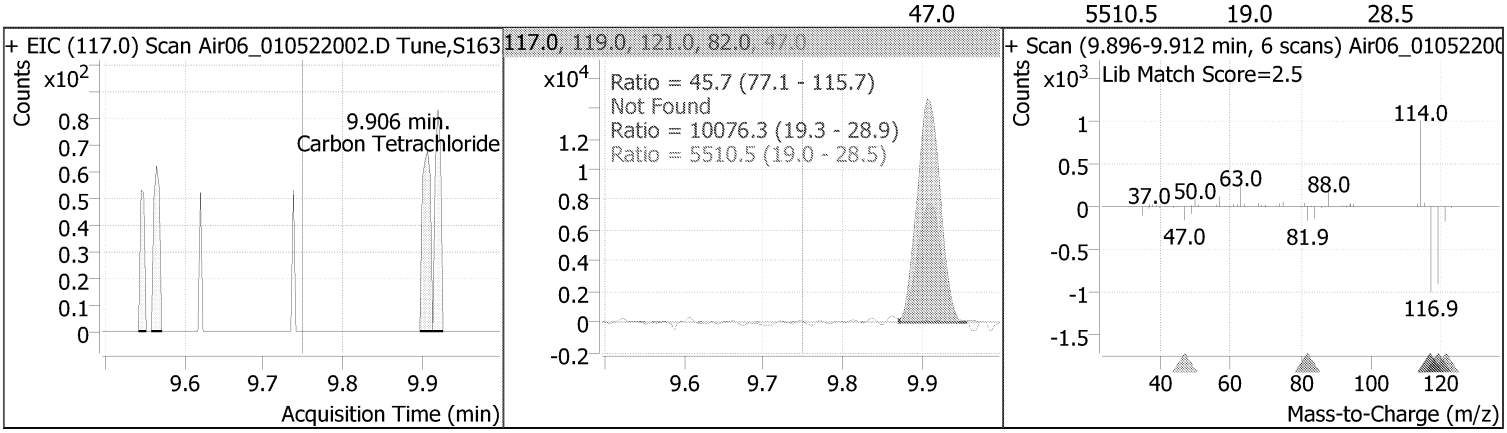
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.0018 | 9.20 | 0.00 | 189 | 99.0 | 10.5 | 51.4 | 77.0 |
| | | | | | 61.0 | | 38.6 | 57.9 |
| | | | | | 117.0 | 23.0 | 10.3 | 15.4 |



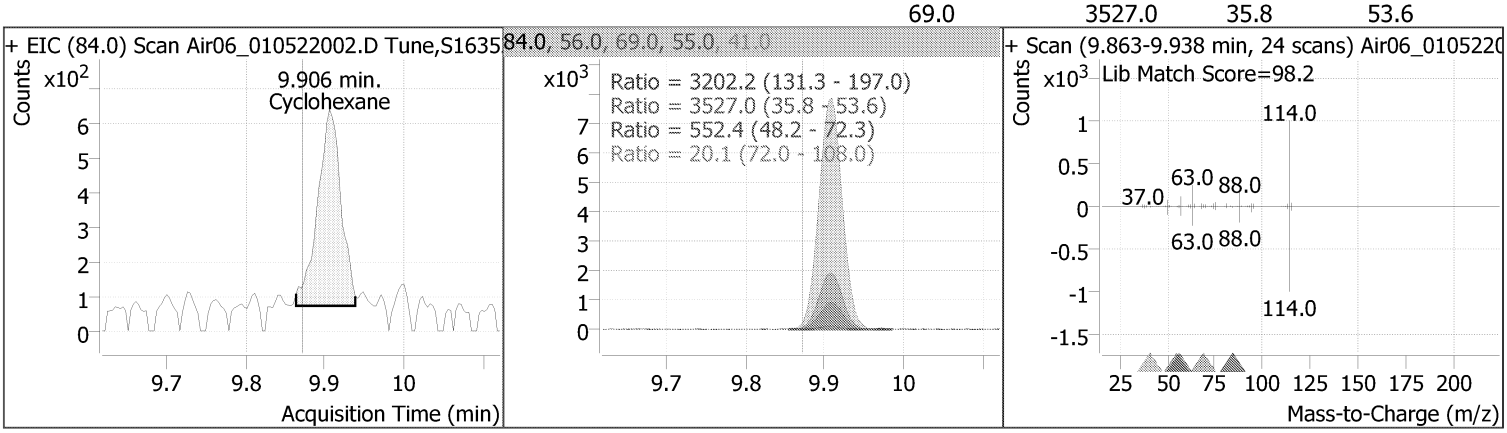

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0062 | 9.61 | 0.00 | 875 | 77.0 | 27.0 | 18.9 | 28.3 |
| | | | | | 50.0 | 28.7 | 16.6 | 24.9 |



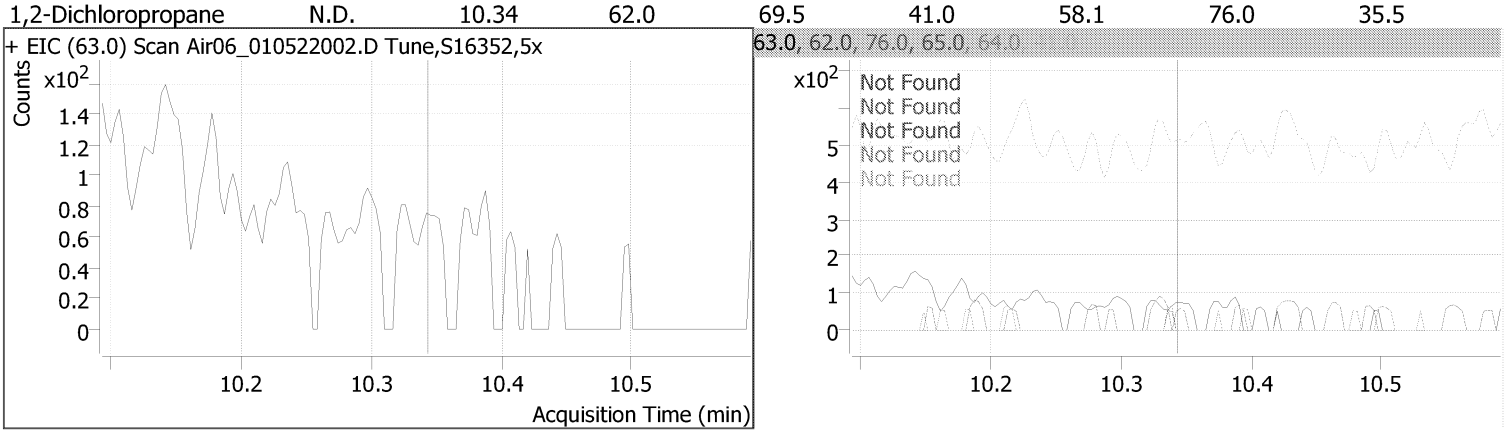

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.0004 | 9.91 | 0.16 | 48 | 119.0 | 45.7 | 77.1 | 115.7 |
| | | | | | 121.0 | | 24.8 | 37.3 |
| | | | | | 82.0 | 10076.3 | 19.3 | 28.9 |
| | | | | | 47.0 | 5510.5 | 19.0 | 28.5 |



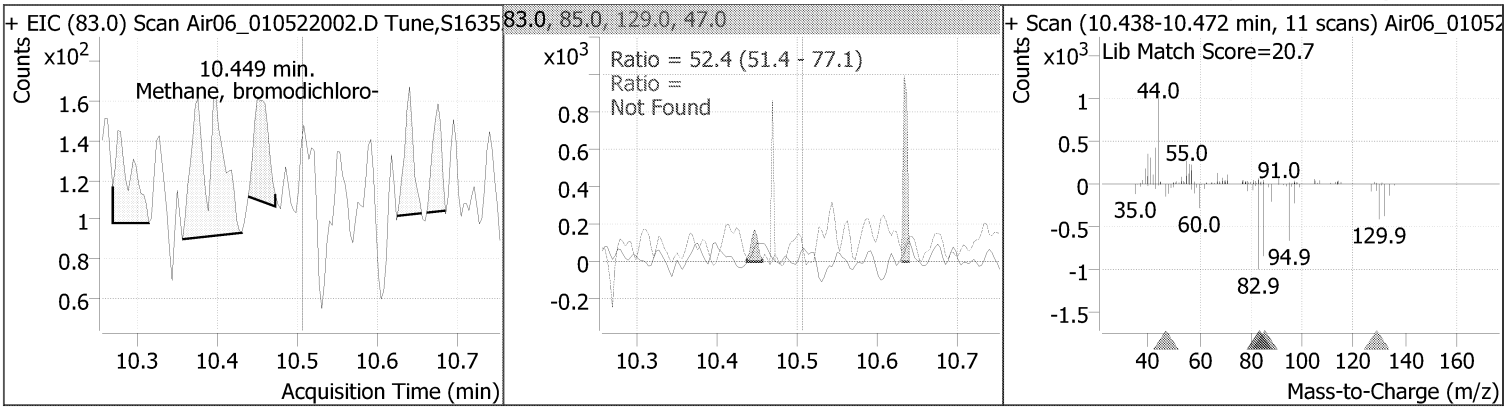
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0201 | 9.91 | 0.04 | 1157 | 56.0 | 3202.2 | 131.3 | 197.0 |
| | | | | | 41.0 | 20.1 | 72.0 | 108.0 |
| | | | | | 55.0 | 552.4 | 48.2 | 72.3 |
| | | | | | 69.0 | 3527.0 | 35.8 | 53.6 |



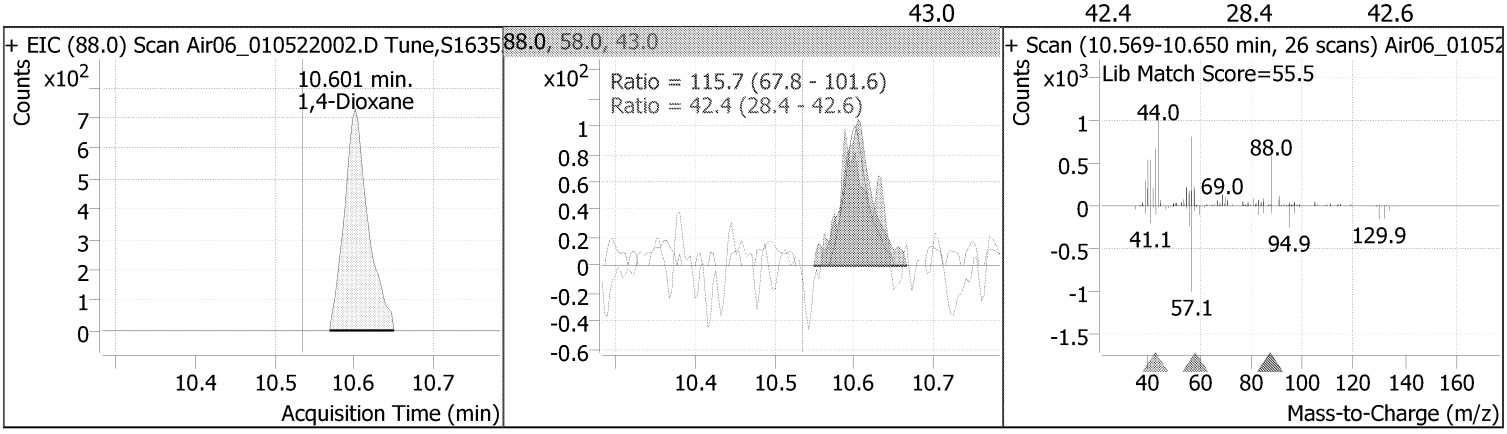

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | N.D. | 10.34 | 62.0 | 69.5 | 41.0 | 58.1 | 76.0 | 35.5 |



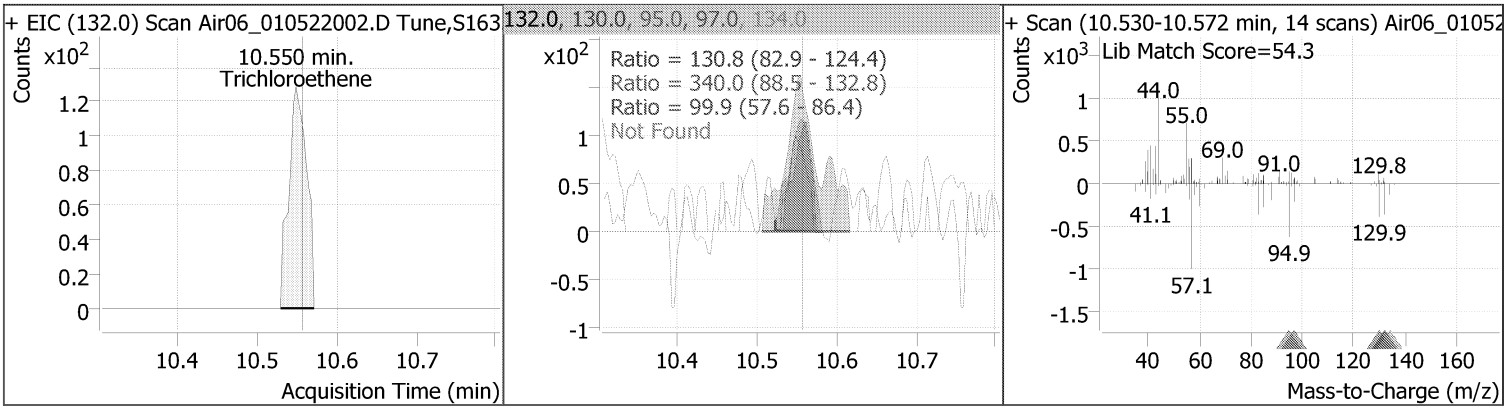

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0006 | 10.45 | -0.05 | 67 | 85.0 | 52.4 | 51.4 | 77.1 |
| | | | | | 47.0 | | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



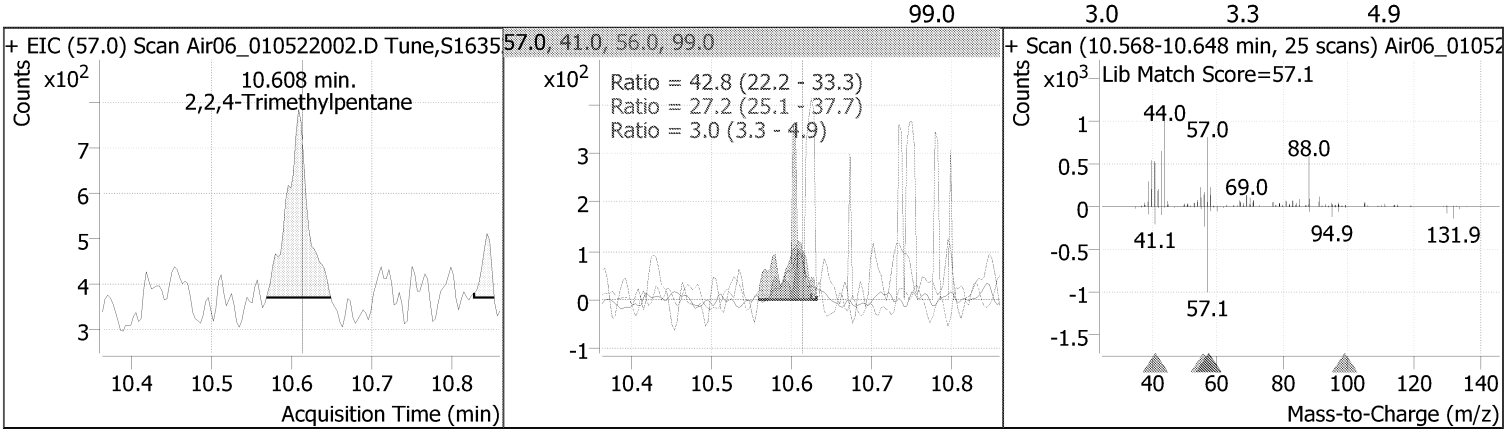
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0481 | 10.60 | 0.07 | 1514 | 58.0 | 115.7 | 67.8 | 101.6 |
| | | | | | 43.0 | 42.4 | 28.4 | 42.6 |



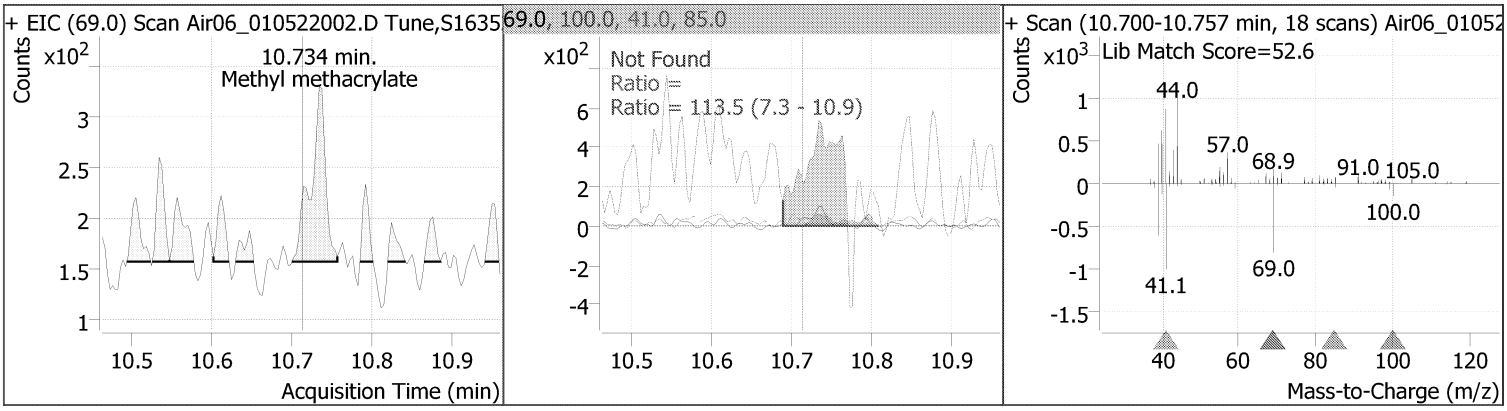

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0033 | 10.55 | -0.01 | 201 | 95.0 | 340.0 | 88.5 | 132.8 |
| | | | | | 130.0 | 130.8 | 82.9 | 124.4 |
| | | | | | 97.0 | 99.9 | 57.6 | 86.4 |
| | | | | | 134.0 | | 25.9 | 38.8 |



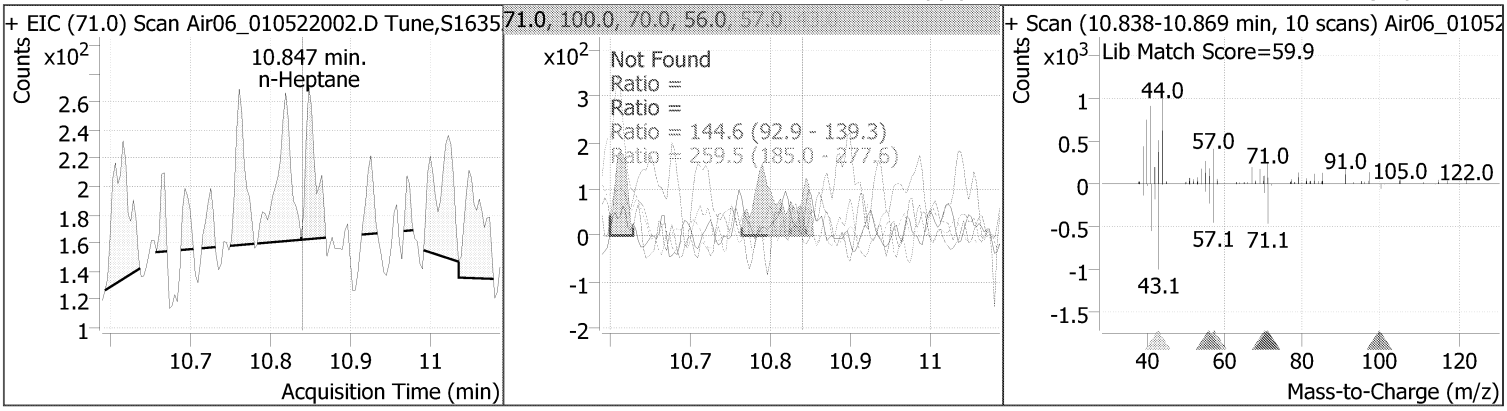

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0027 | 10.61 | 0.00 | 763 | 56.0 | 27.2 | 25.1 | 37.7 |
| | | | | | 41.0 | 42.8 | 22.2 | 33.3 |
| | | | | | 99.0 | 3.0 | 3.3 | 4.9 |



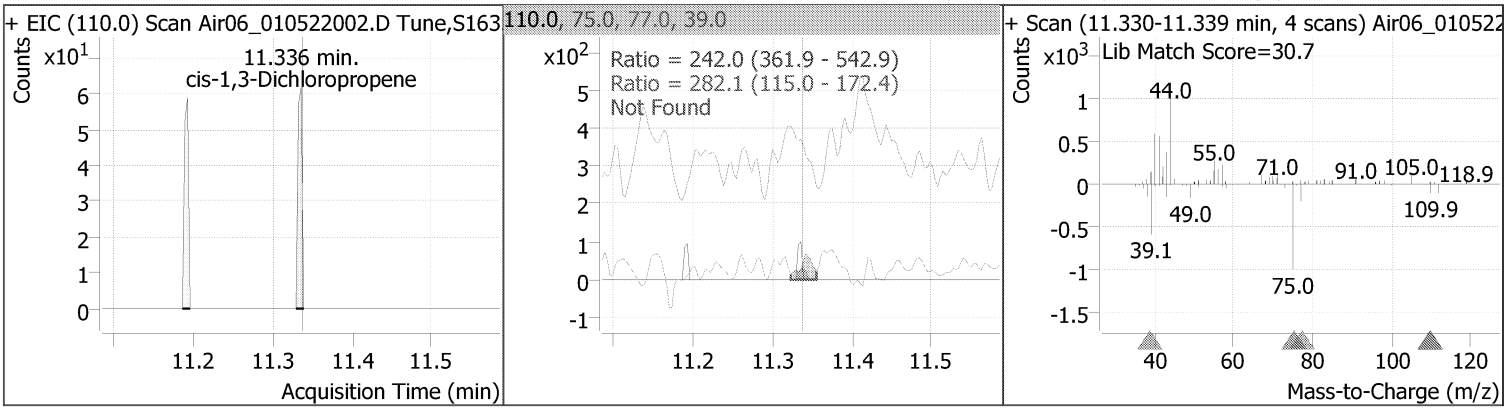
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0043 | 10.73 | 0.02 | 224 | 41.0 | | 129.5 | 194.3 |
| | | | | | 100.0 | | 28.8 | 43.2 |
| | | | | | 85.0 | 113.5 | 7.3 | 10.9 |



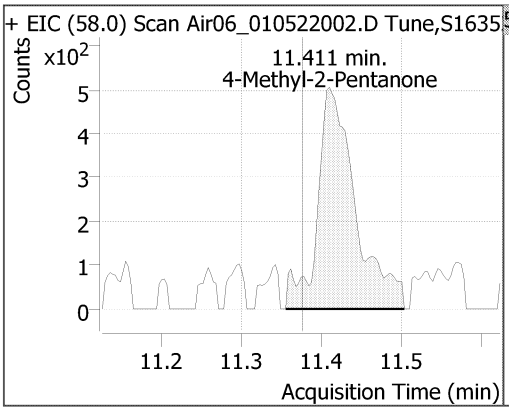

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.0019 | 10.85 | 0.01 | 92 | 43.0 | 259.5 | 185.0 | 277.6 |
| | | | | | 57.0 | 144.6 | 92.9 | 139.3 |
| | | | | | 56.0 | | 56.5 | 84.8 |
| | | | | | 70.0 | | 36.5 | 54.8 |
| | | | | | 100.0 | | 21.2 | 31.8 |

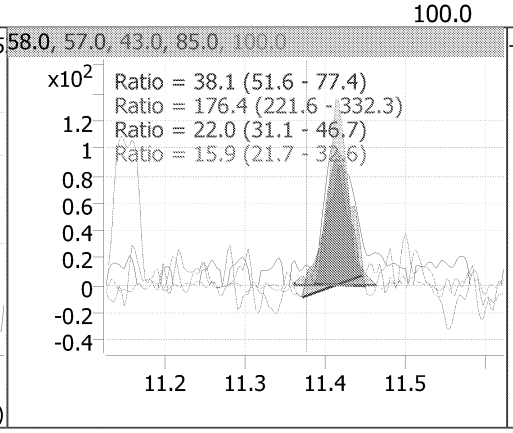


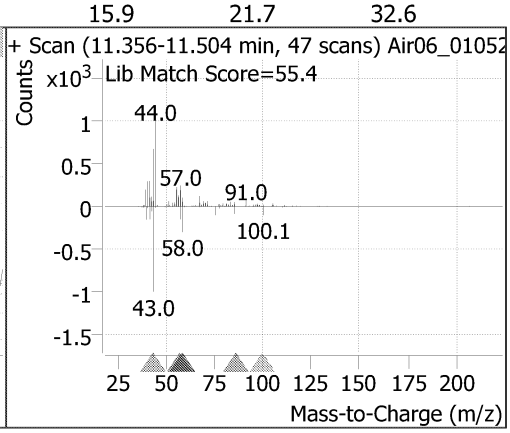

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 0.0012 | 11.34 | 0.00 | 23 | 75.0 | 242.0 | 361.9 | 542.9 |
| | | | | | 39.0 | | 296.4 | 444.6 |
| | | | | | 77.0 | 282.1 | 115.0 | 172.4 |



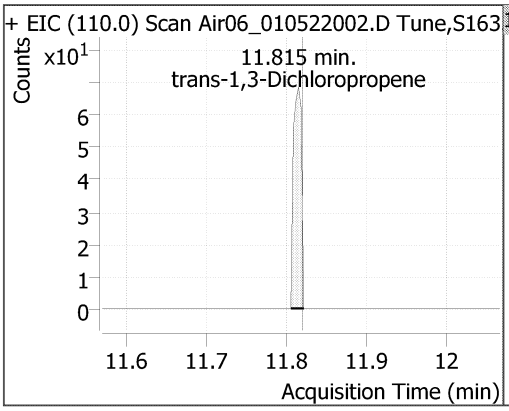
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0320 | 11.41 | 0.04 | 1685 | 43.0 | 176.4 | 221.6 | 332.3 |
| | | | | | 57.0 | 38.1 | 51.6 | 77.4 |
| | | | | | 85.0 | 22.0 | 31.1 | 46.7 |
| | | | | | 100.0 | 15.9 | 21.7 | 32.6 |

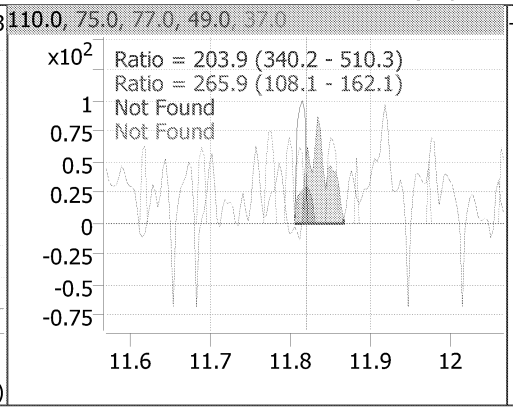


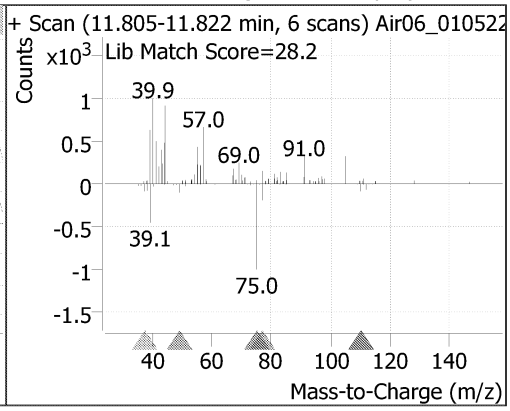



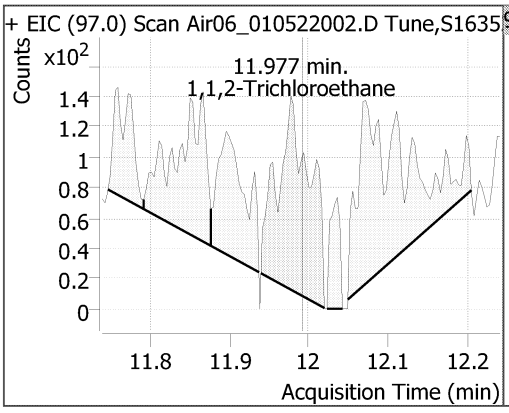

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.0026 | 11.82 | 0.00 | 49 | 75.0 | 203.9 | 340.2 | 510.3 |
| | | | | | 77.0 | 265.9 | 108.1 | 162.1 |
| | | | | | 49.0 | | 88.0 | 132.1 |
| | | | | | 37.0 | | 43.2 | 64.8 |

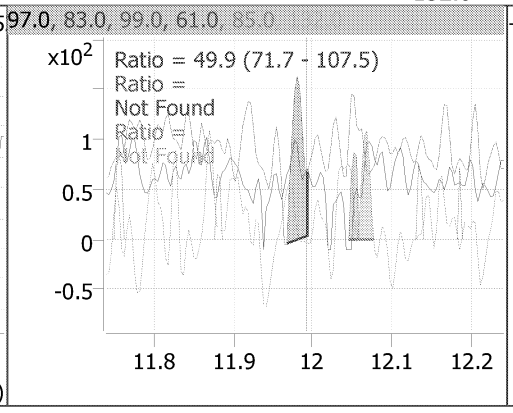


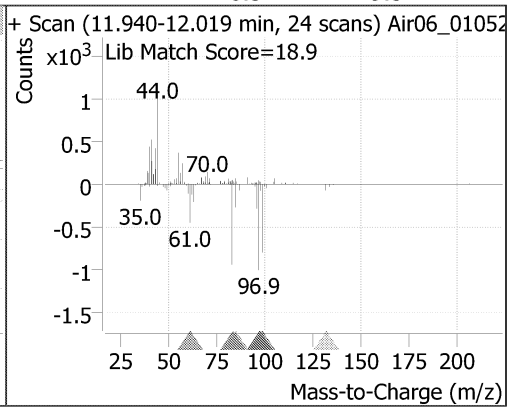



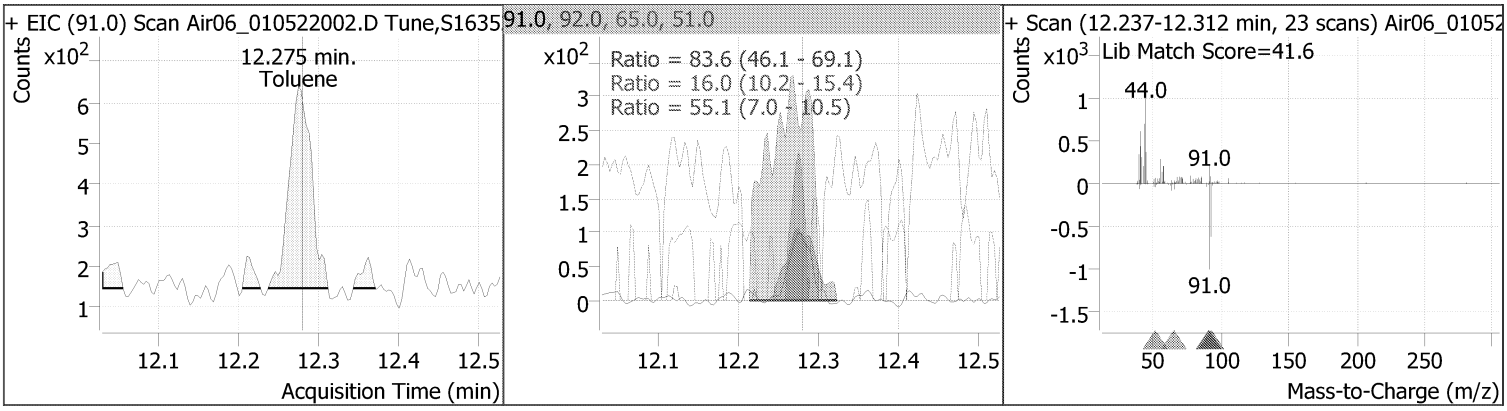

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.0058 | 11.98 | -0.01 | 358 | 83.0 | 49.9 | 71.7 | 107.5 |
| | | | | | 61.0 | | 56.8 | 85.2 |
| | | | | | 99.0 | | 50.1 | 75.2 |
| | | | | | 85.0 | | 46.0 | 69.0 |
| | | | | | 132.0 | | 6.3 | 9.5 |



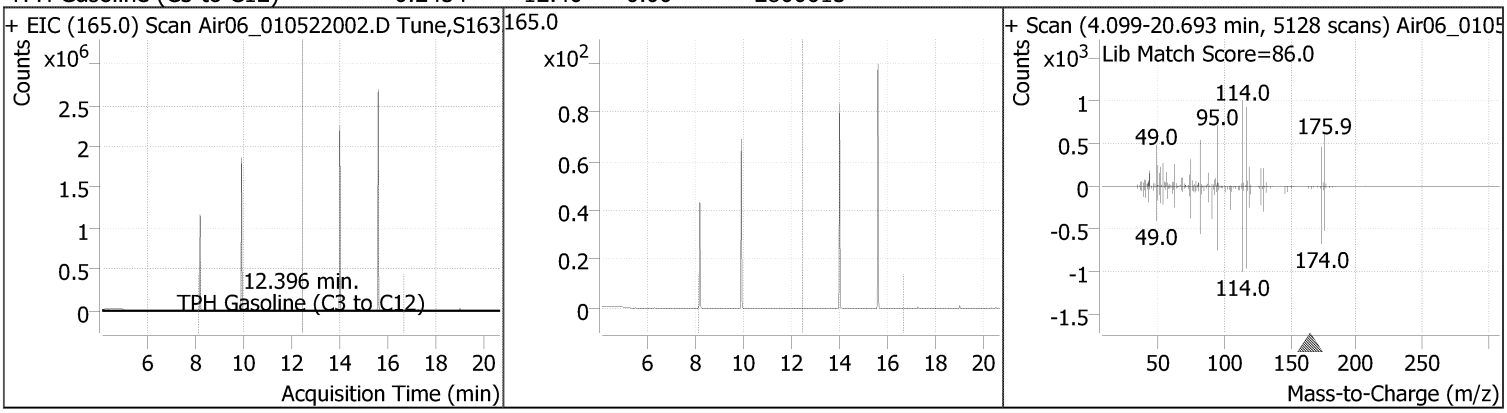



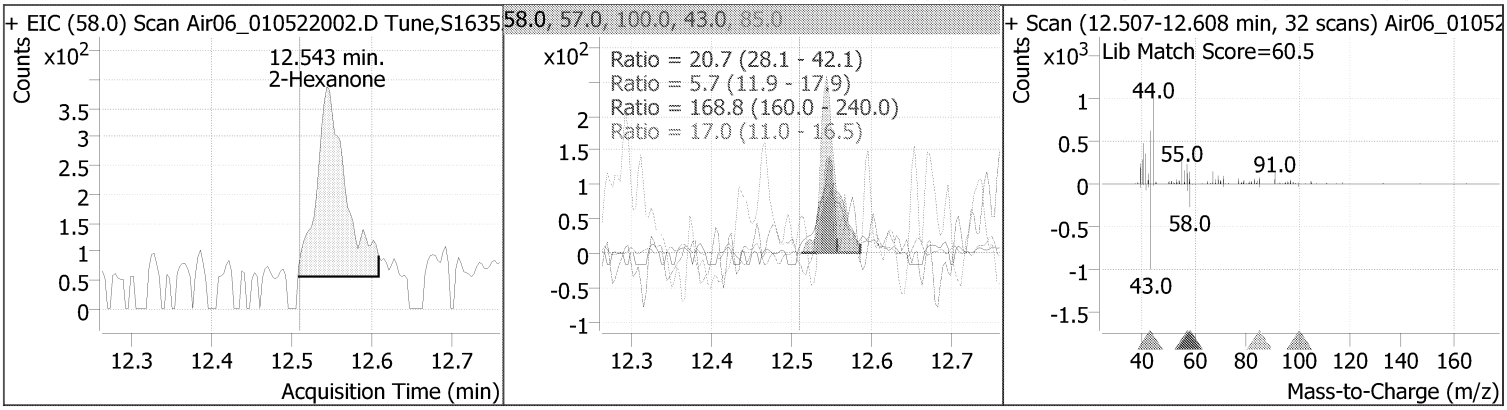
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0054 | 12.27 | 0.00 | 955 | 92.0 | 83.6 | 46.1 | 69.1 |
| | | | | | 65.0 | 16.0 | 10.2 | 15.4 |
| | | | | | 51.0 | 55.1 | 7.0 | 10.5 |



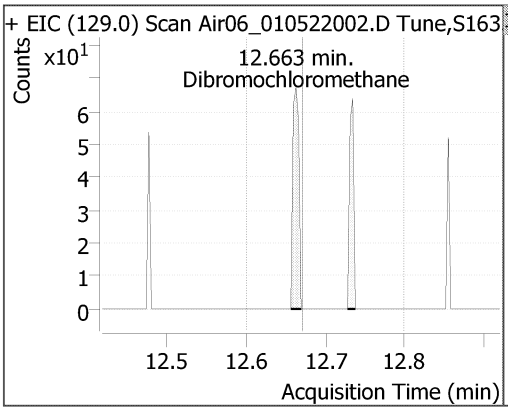

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 0.2434 | 12.40 | 0.00 | 2800613 | | | | |

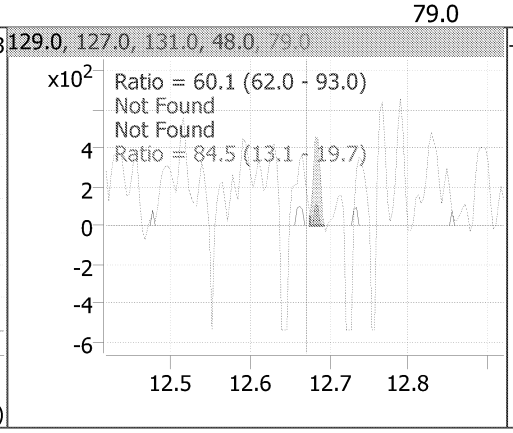


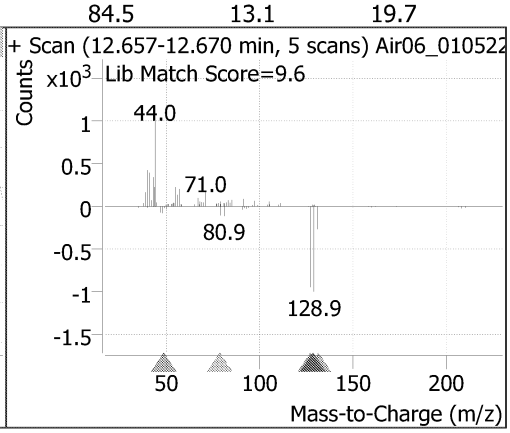

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.0124 | 12.54 | 0.03 | 836 | 43.0 | 168.8 | 160.0 | 240.0 |
| | | | | | 57.0 | 20.7 | 28.1 | 42.1 |
| | | | | | 100.0 | 5.7 | 11.9 | 17.9 |
| | | | | | 85.0 | 17.0 | 11.0 | 16.5 |



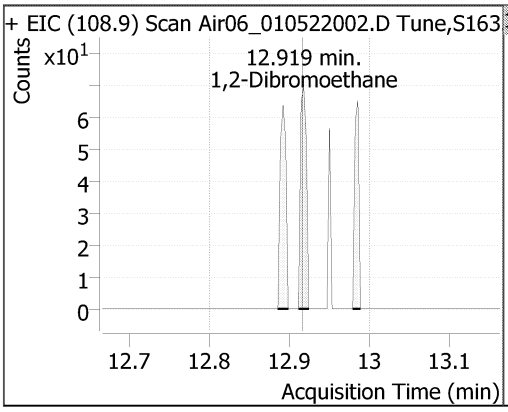
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.0003 | 12.66 | -0.01 | 36 | 127.0 | 60.1 | 62.0 | 93.0 |
| | | | | | 131.0 | | 19.3 | 29.0 |
| | | | | | 48.0 | | 14.0 | 21.0 |
| | | | | | 79.0 | 84.5 | 13.1 | 19.7 |

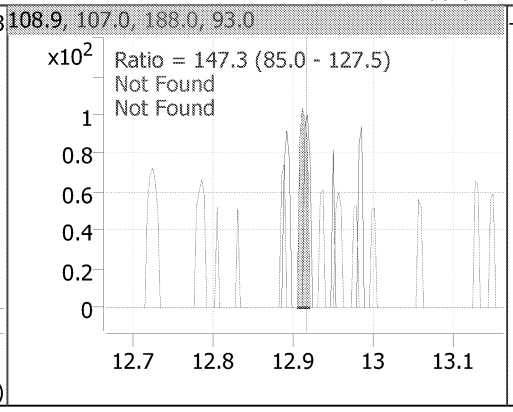


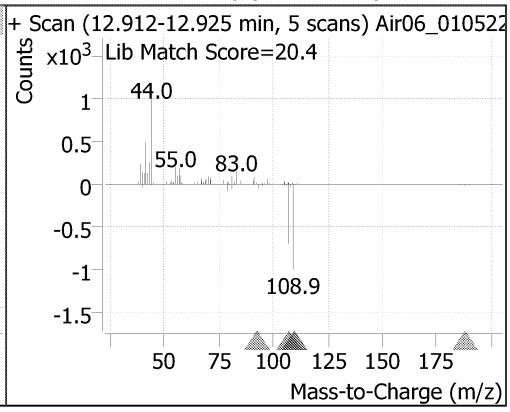



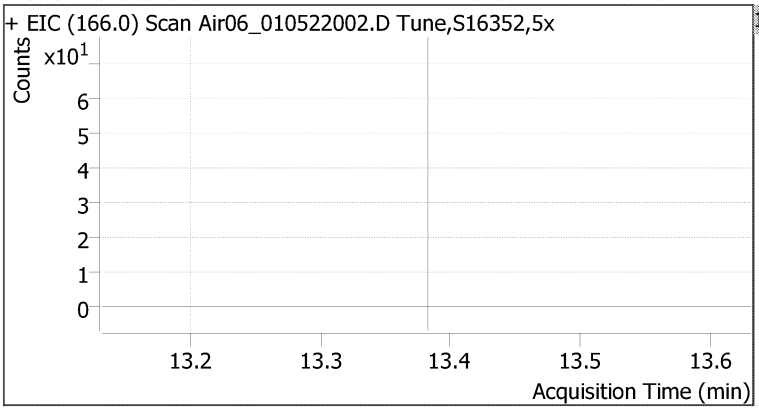

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.0004 | 12.92 | 0.00 | 37 | 107.0 | 147.3 | 85.0 | 127.5 |
| | | | | | 93.0 | | 5.4 | 8.1 |
| | | | | | 188.0 | | 3.5 | 5.2 |

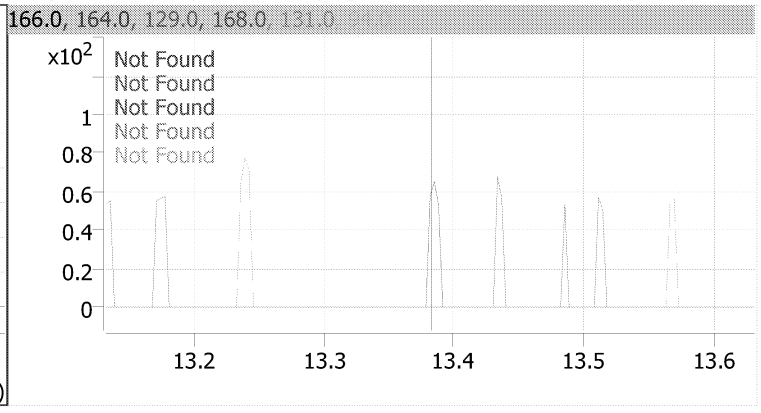


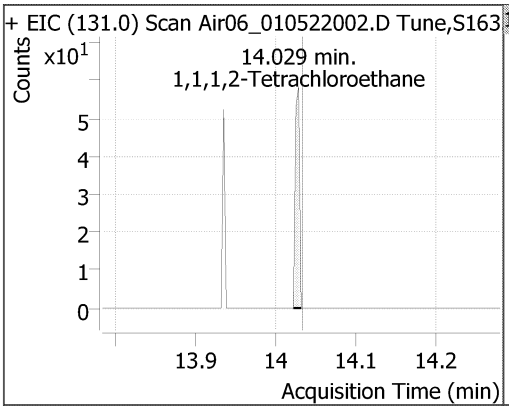



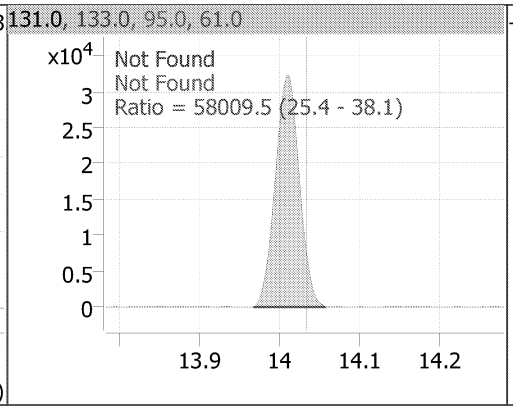

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | N.D. | 13.38 | 164.0 | 78.3 | 129.0 | 67.5 | 131.0 | 65.2 |

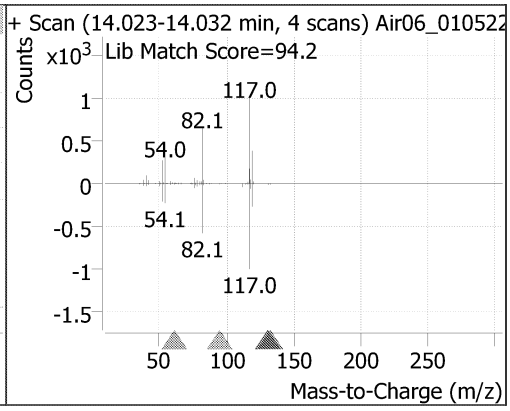


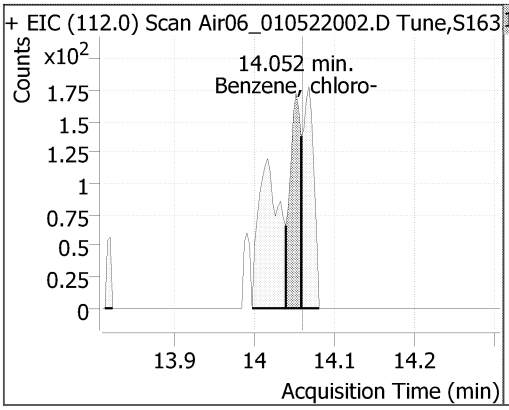
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0003 | 14.03 | -0.01 | 22 | 133.0 | | 76.9 | 115.3 |
| | | | | | 95.0 | | 33.0 | 49.4 |
| | | | | | 61.0 | 58009.5 | 25.4 | 38.1 |

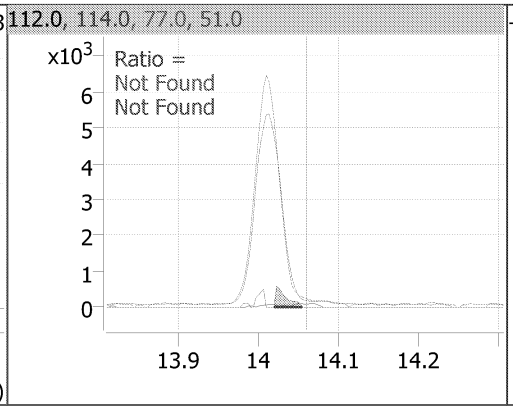


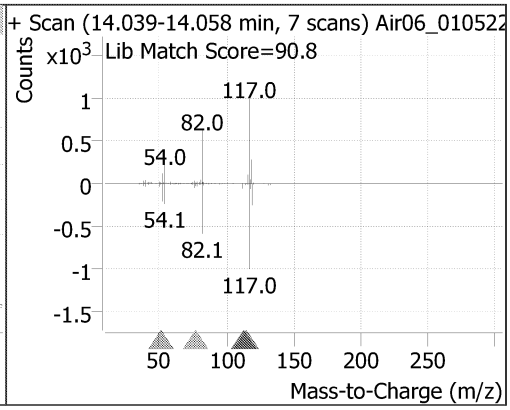



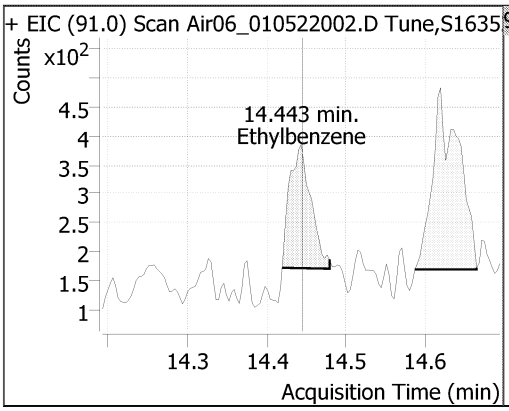

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0012 | 14.05 | -0.01 | 152 | 77.0 | | 50.5 | 75.7 |
| | | | | | 114.0 | | 25.8 | 38.7 |
| | | | | | 51.0 | | 23.4 | 35.1 |

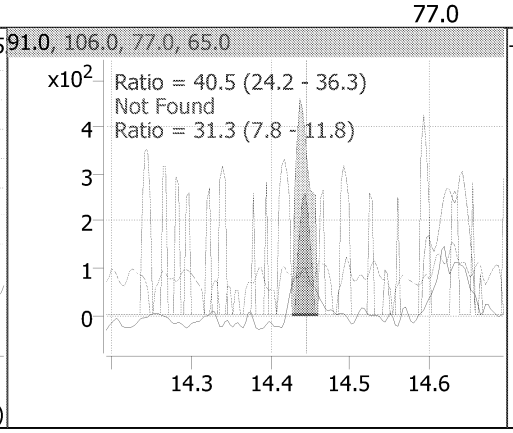


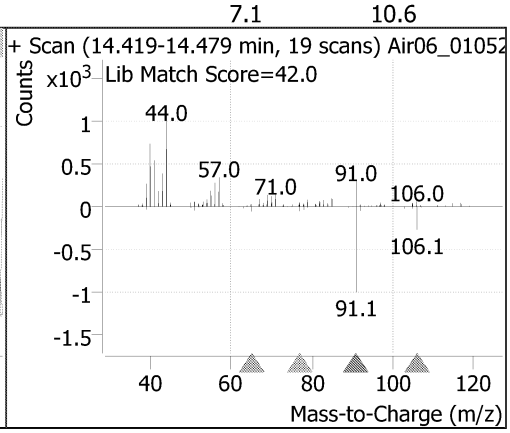



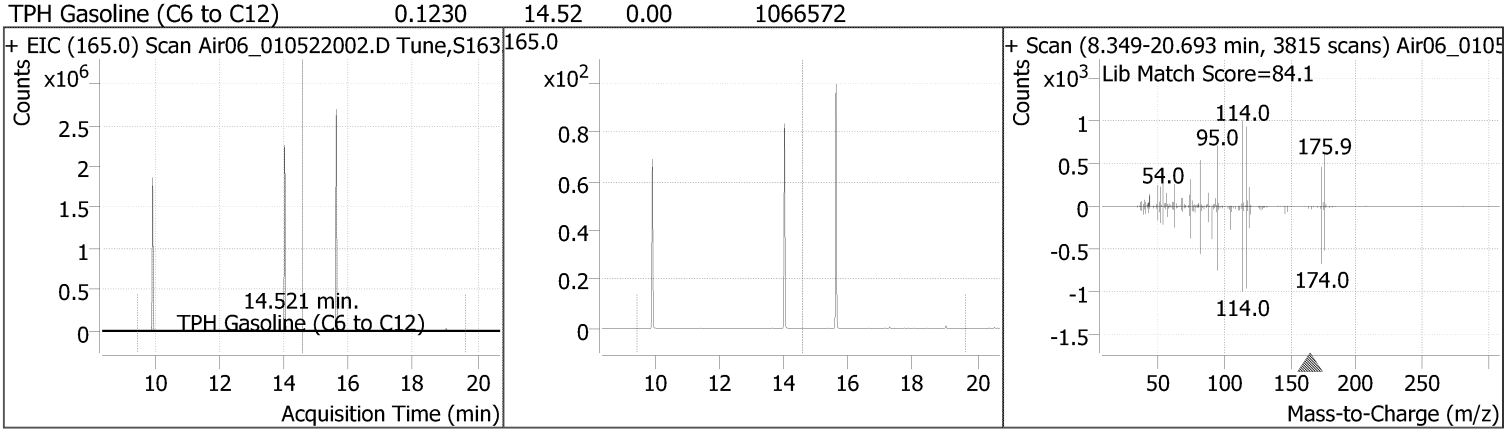

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0020 | 14.44 | 0.00 | 396 | 106.0 | 40.5 | 24.2 | 36.3 |
| | | | | | 65.0 | 31.3 | 7.8 | 11.8 |
| | | | | | 77.0 | | 7.1 | 10.6 |



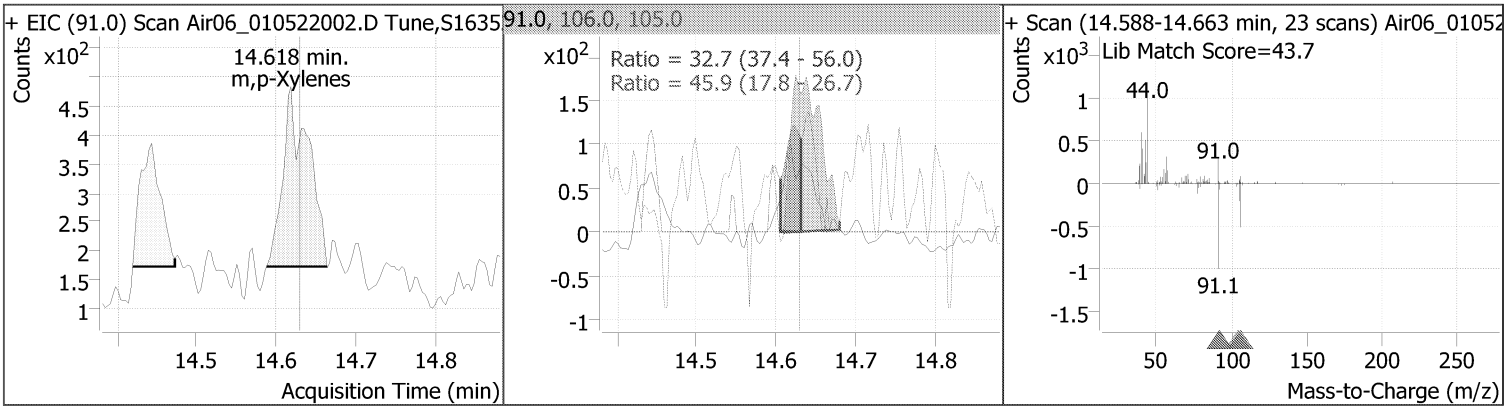



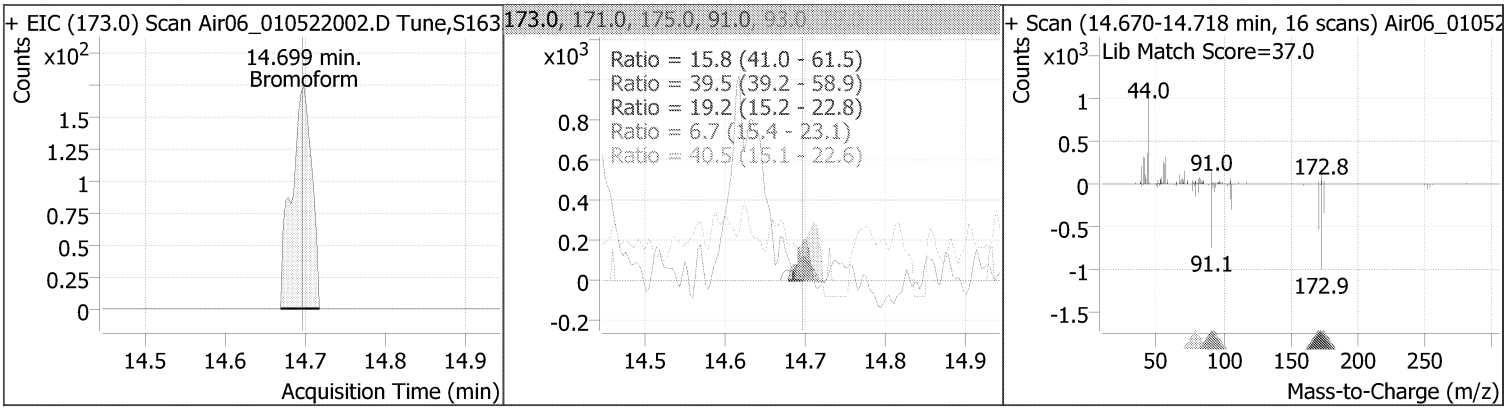
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 0.1230 | 14.52 | 0.00 | 1066572 | | | | |



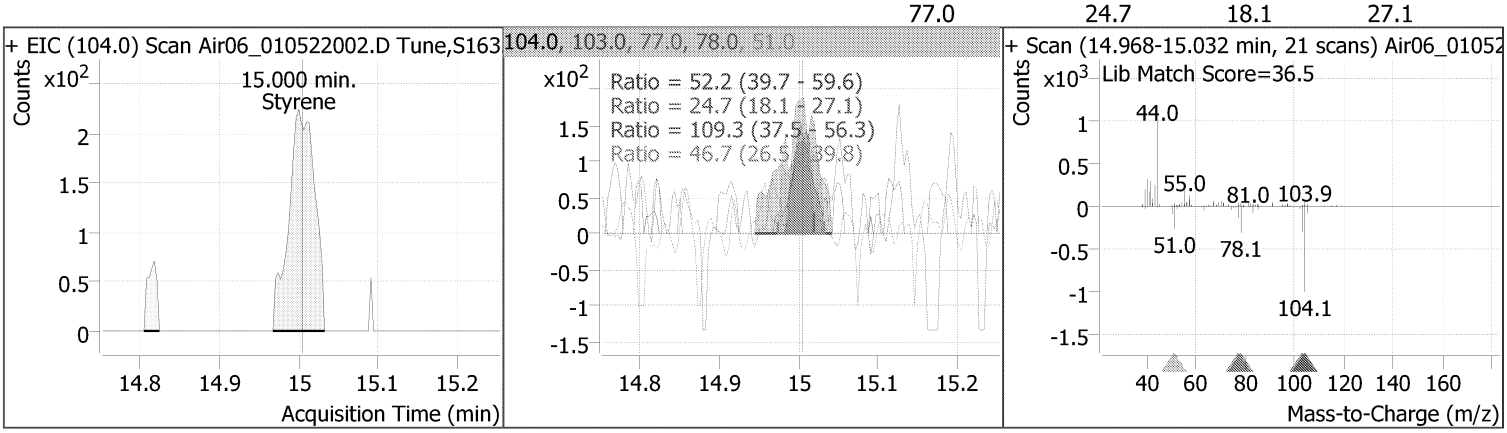

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.0041 | 14.62 | -0.02 | 691 | 106.0 | 32.7 | 37.4 | 56.0 |
| | | | | | 105.0 | 45.9 | 17.8 | 26.7 |



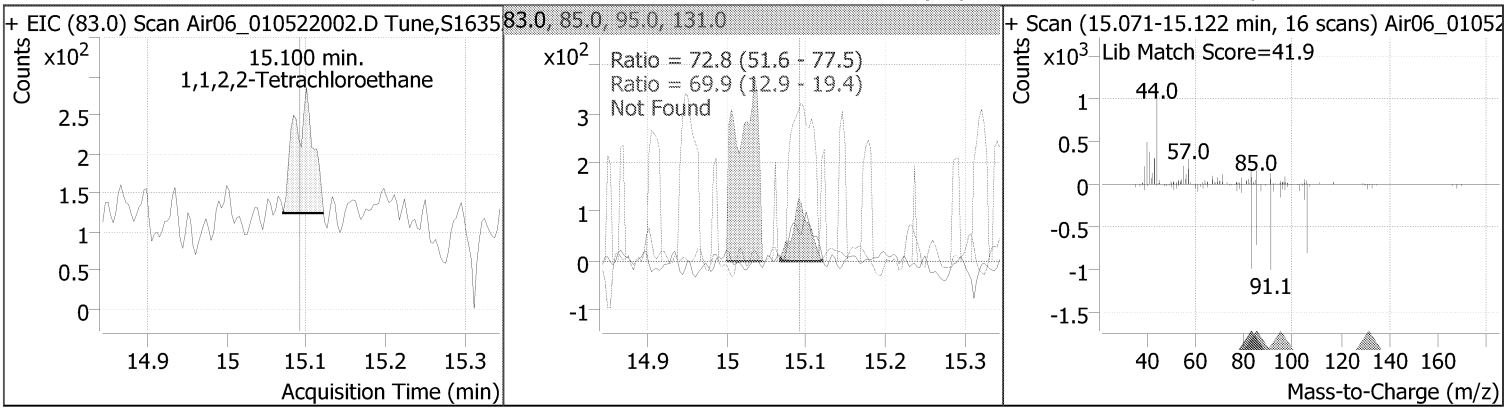

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.0025 | 14.70 | 0.00 | 306 | 171.0 | 15.8 | 41.0 | 61.5 |
| | | | | | 175.0 | 39.5 | 39.2 | 58.9 |
| | | | | | 93.0 | 6.7 | 15.4 | 23.1 |
| | | | | | 91.0 | 19.2 | 15.2 | 22.8 |
| | | | | | 79.0 | 40.5 | 15.1 | 22.6 |



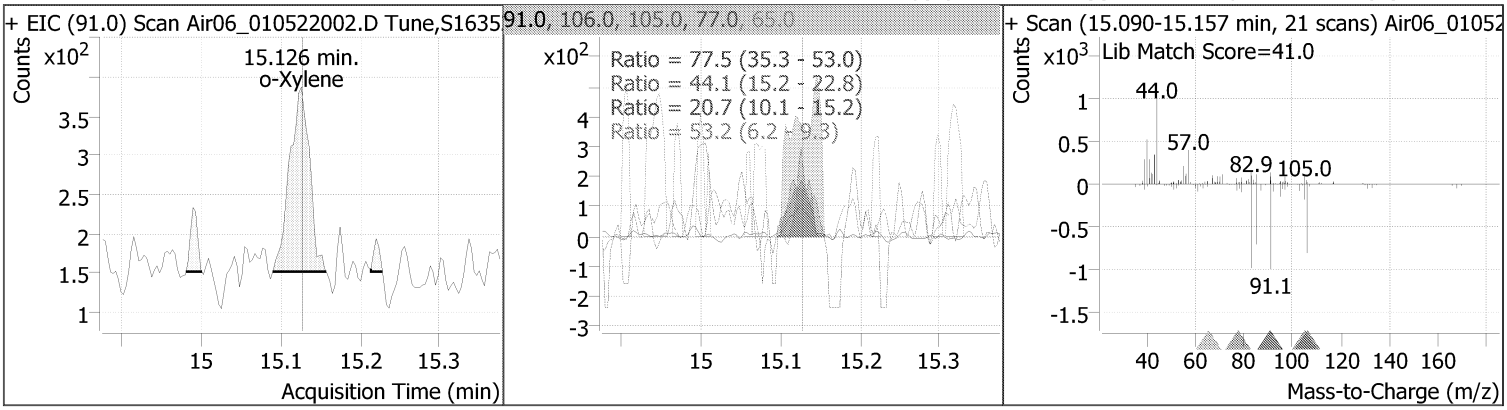
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.0042 | 15.00 | -0.01 | 512 | 103.0 | 52.2 | 39.7 | 59.6 |
| | | | | | 78.0 | 109.3 | 37.5 | 56.3 |
| | | | | | 51.0 | 46.7 | 26.5 | 39.8 |
| | | | | | 77.0 | 24.7 | 18.1 | 27.1 |



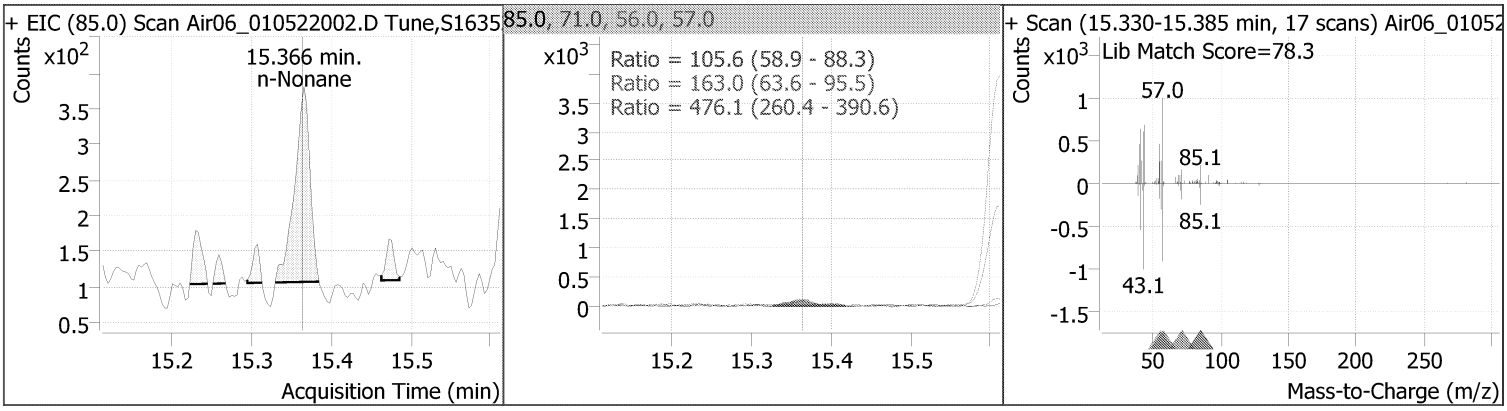

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.0021 | 15.10 | 0.00 | 266 | 85.0 | 72.8 | 51.6 | 77.5 |
| | | | | | 95.0 | 69.9 | 12.9 | 19.4 |
| | | | | | 131.0 | | 7.8 | 11.7 |



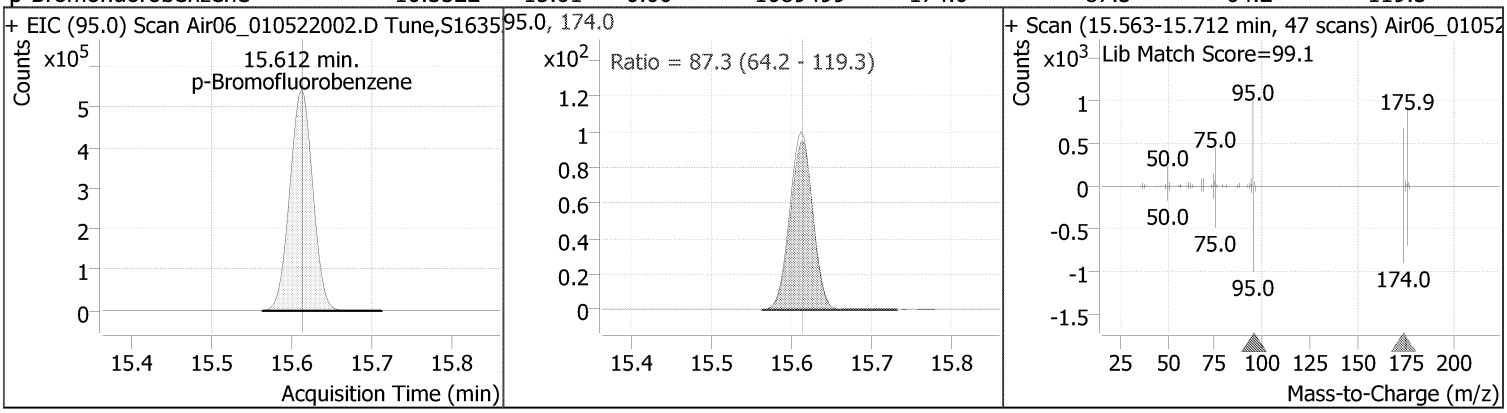

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.0024 | 15.13 | 0.00 | 408 | 106.0 | 77.5 | 35.3 | 53.0 |
| | | | | | 105.0 | 44.1 | 15.2 | 22.8 |
| | | | | | 77.0 | 20.7 | 10.1 | 15.2 |
| | | | | | 65.0 | 53.2 | 6.2 | 9.3 |



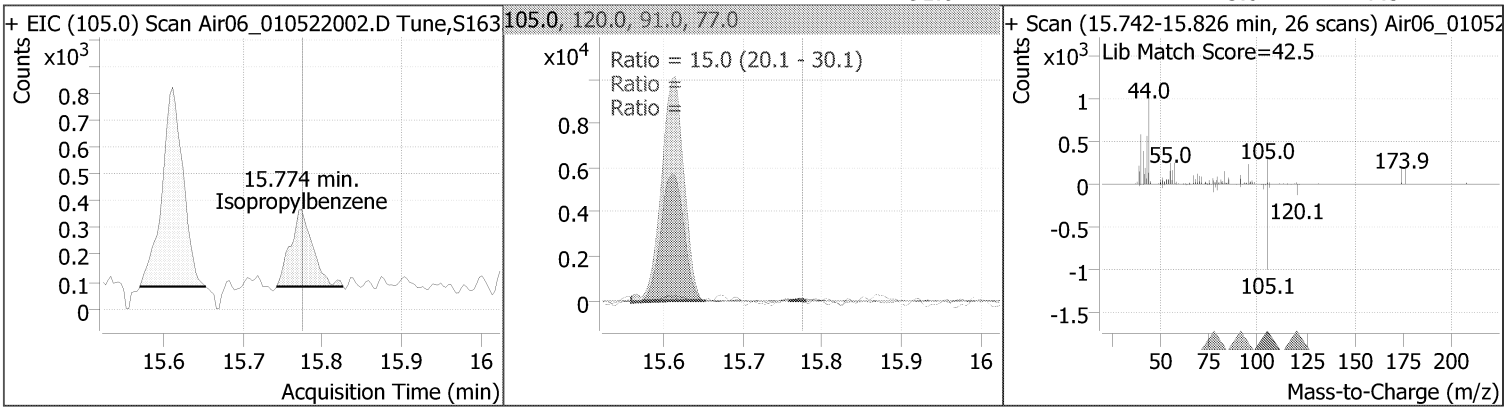
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.0097 | 15.37 | 0.00 | 364 | 57.0 | 476.1 | 260.4 | 390.6 |
| | | | | | 56.0 | 163.0 | 63.6 | 95.5 |
| | | | | | 71.0 | 105.6 | 58.9 | 88.3 |



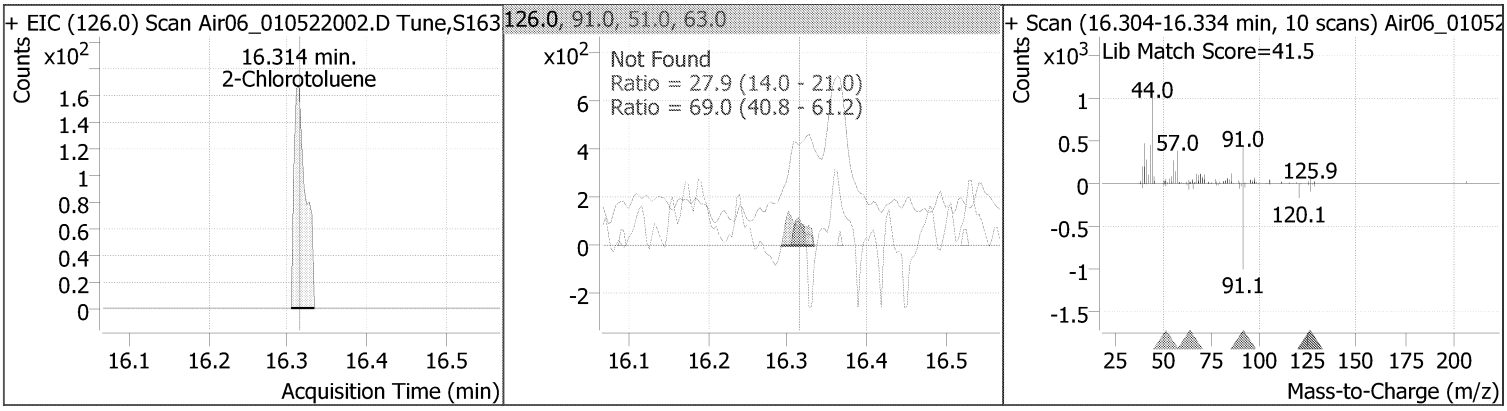

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.3322 | 15.61 | 0.00 | 1089499 | 174.0 | 87.3 | 64.2 | 119.3 |



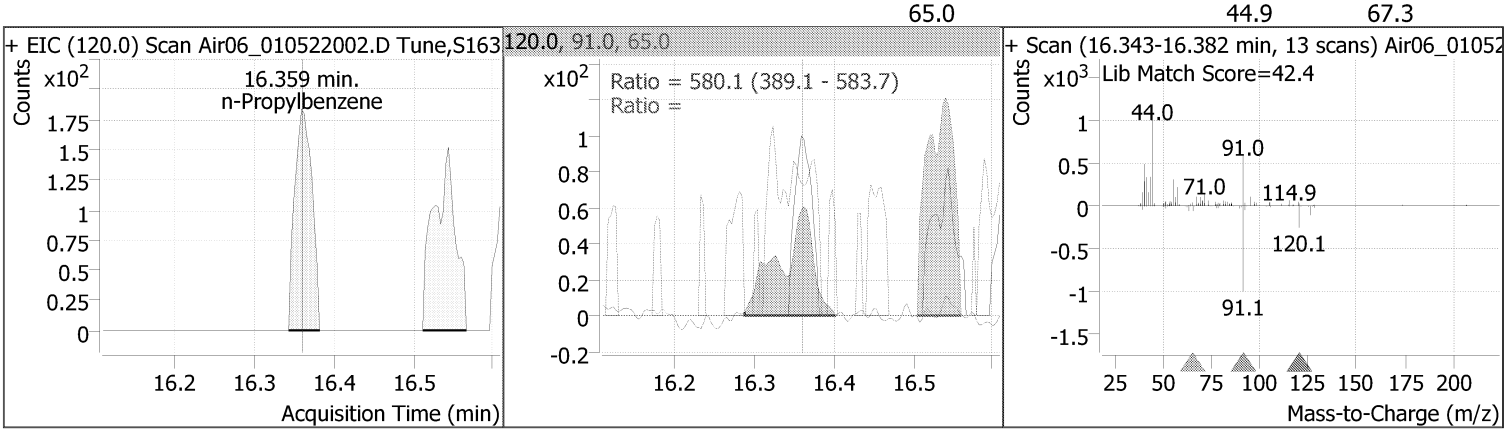

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0024 | 15.77 | 0.00 | 557 | 120.0 | 15.0 | 20.1 | 30.1 |
| | | | | | 77.0 | | 13.1 | 19.6 |
| | | | | | 91.0 | | 5.0 | 7.5 |



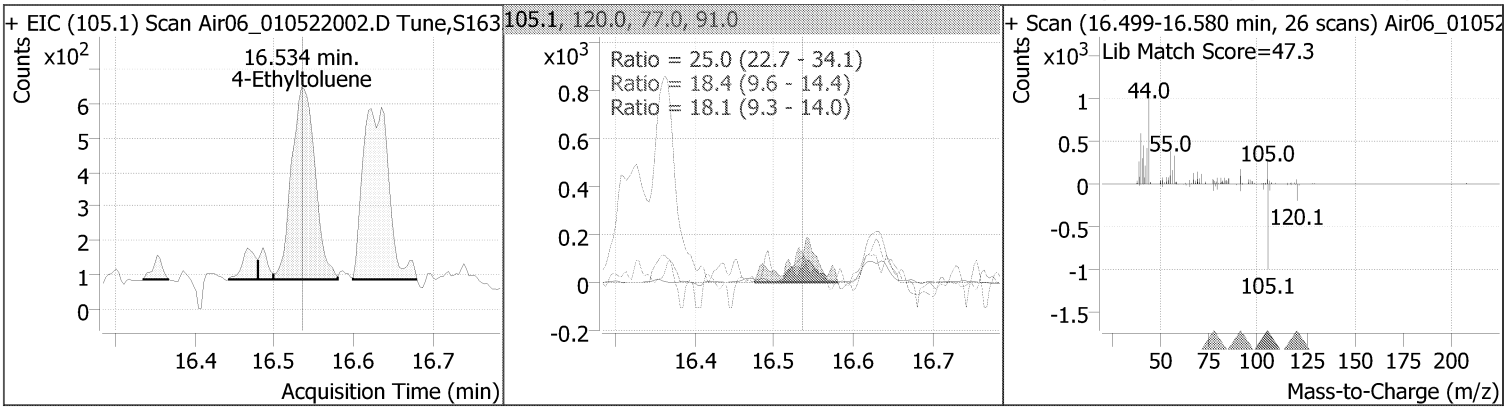
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.0031 | 16.31 | -0.01 | 172 | 91.0 | | 232.8 | 349.2 |
| | | | | | 63.0 | 69.0 | 40.8 | 61.2 |
| | | | | | 51.0 | 27.9 | 14.0 | 21.0 |



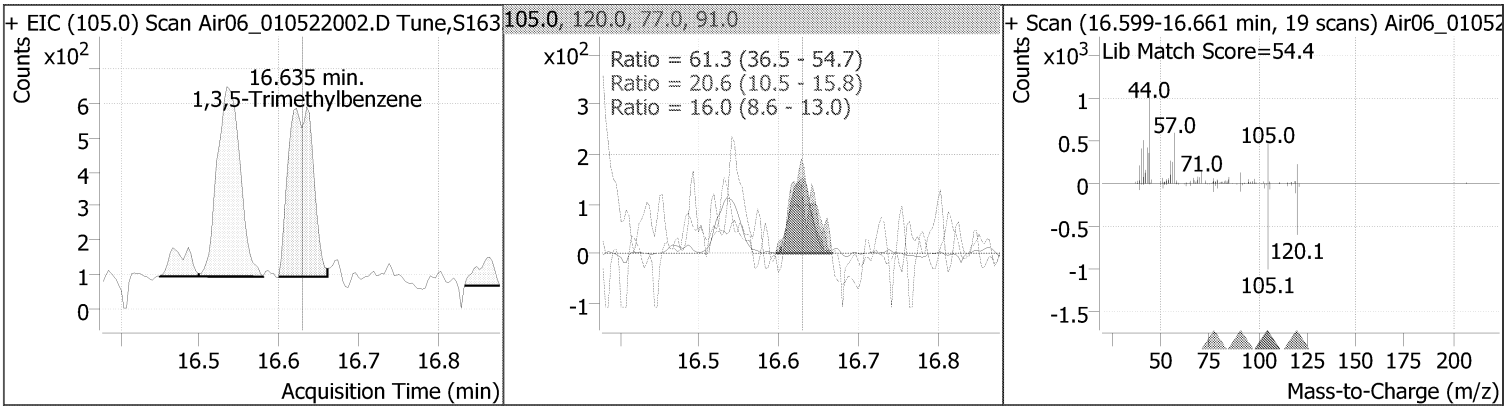

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0045 | 16.36 | 0.00 | 277 | 91.0 | 580.1 | 389.1 | 583.7 |
| | | | | | 65.0 | | 44.9 | 67.3 |



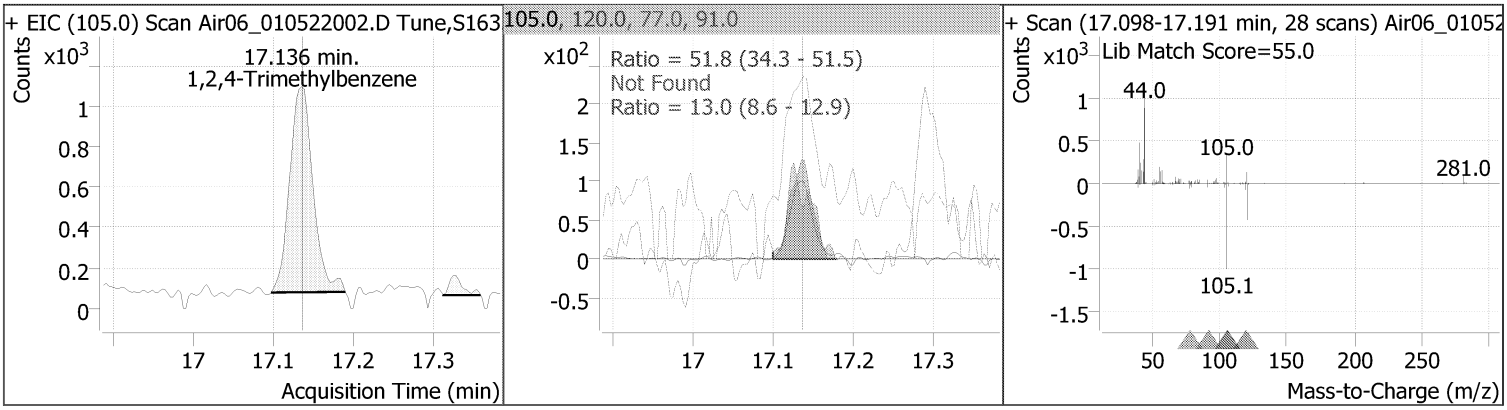

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0051 | 16.53 | 0.00 | 1162 | 120.0 | 25.0 | 22.7 | 34.1 |
| | | | | | 77.0 | 18.4 | 9.6 | 14.4 |
| | | | | | 91.0 | 18.1 | 9.3 | 14.0 |



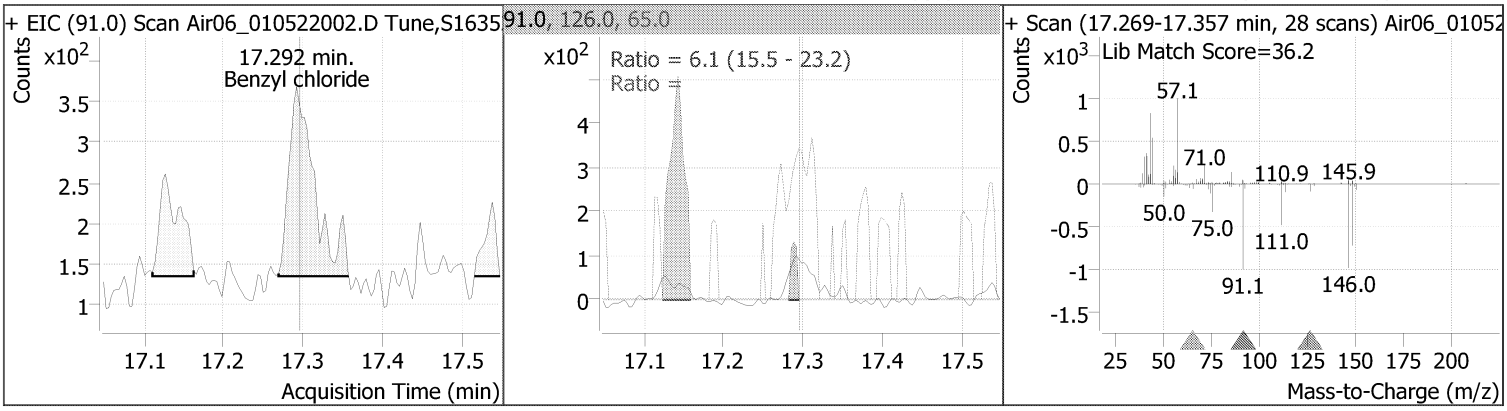
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.0054 | 16.63 | 0.00 | 1090 | 120.0 | 61.3 | 36.5 | 54.7 |
| | | | | | 77.0 | 20.6 | 10.5 | 15.8 |
| | | | | | 91.0 | 16.0 | 8.6 | 13.0 |



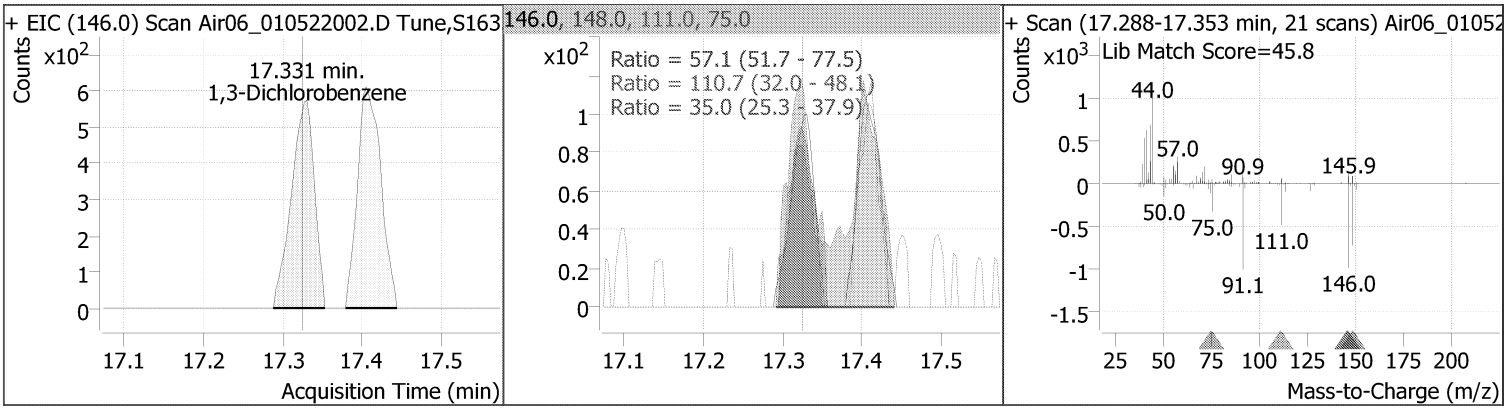

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.0109 | 17.14 | 0.00 | 2080 | 120.0 | 51.8 | 34.3 | 51.5 |
| | | | | | 77.0 | | 10.3 | 15.4 |
| | | | | | 91.0 | 13.0 | 8.6 | 12.9 |



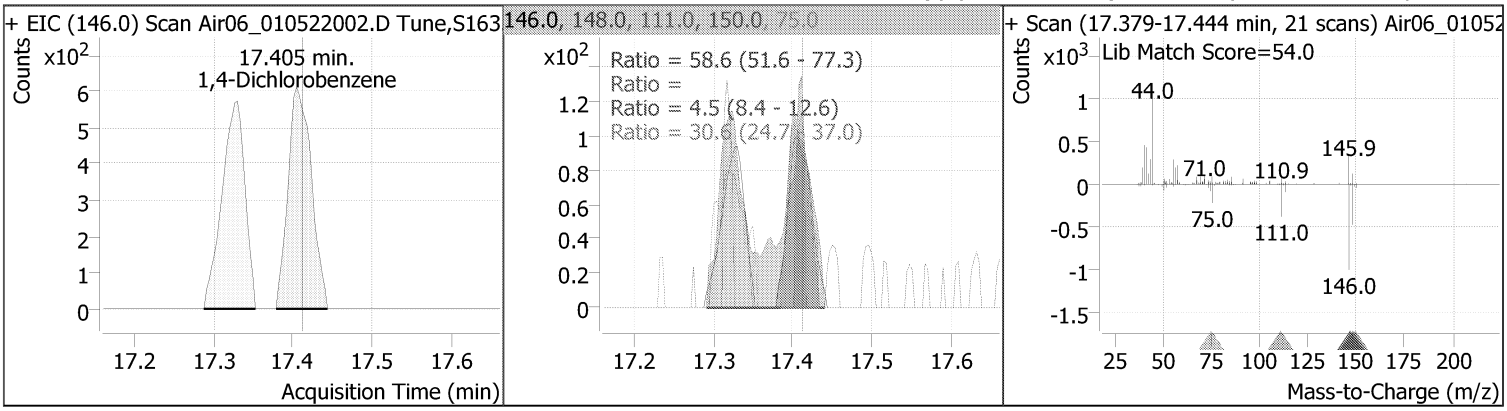

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0031 | 17.29 | -0.01 | 526 | 126.0 | 6.1 | 15.5 | 23.2 |
| | | | | | 65.0 | | 10.7 | 16.1 |



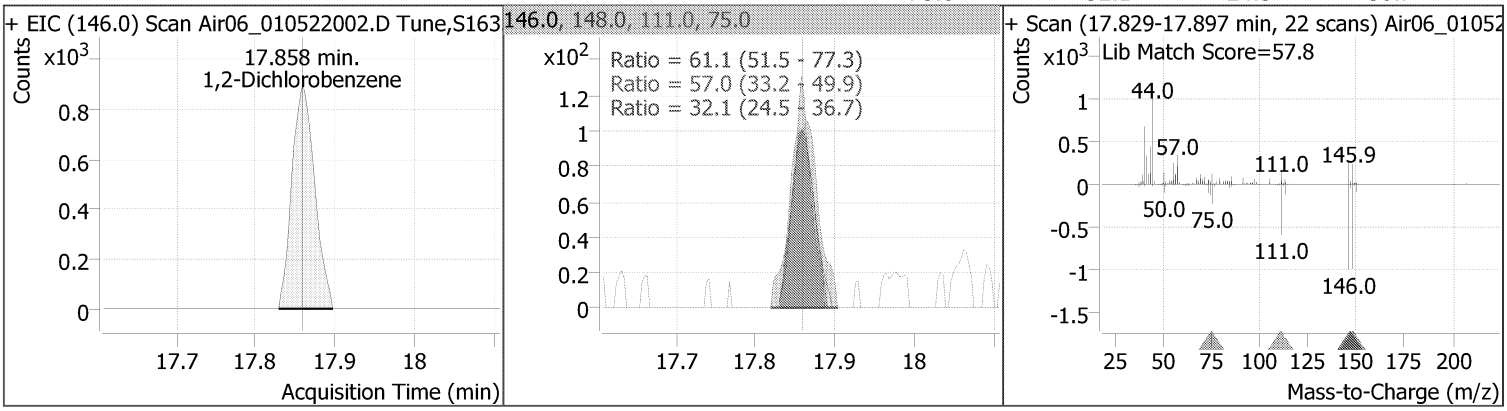
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.0083 | 17.33 | 0.00 | 1155 | 148.0 | 57.1 | 51.7 | 77.5 |
| | | | | | 111.0 | 110.7 | 32.0 | 48.1 |
| | | | | | 75.0 | 35.0 | 25.3 | 37.9 |



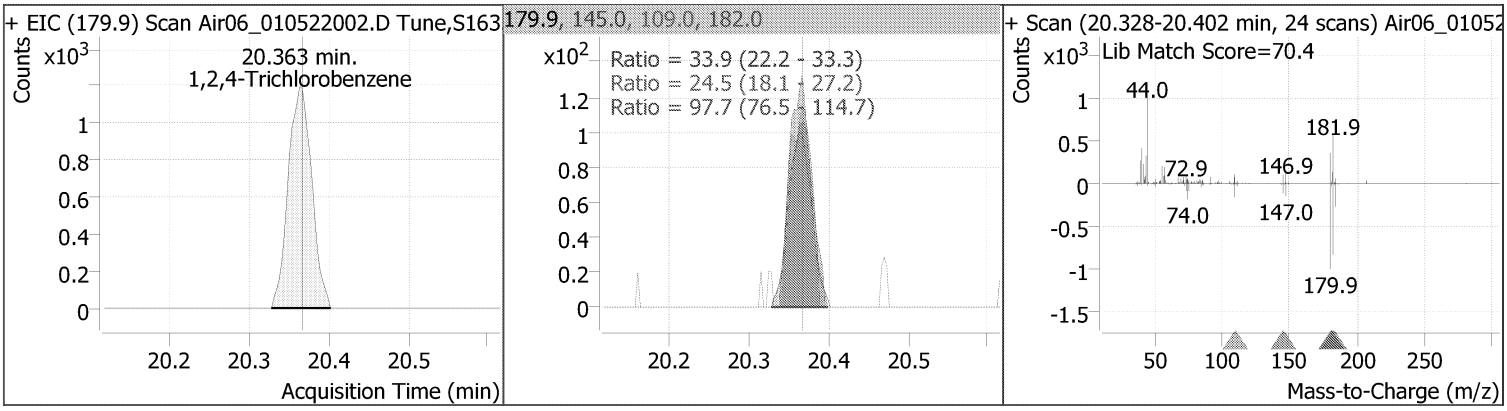

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.0089 | 17.40 | -0.01 | 1250 | 148.0 | 58.6 | 51.6 | 77.3 |
| | | | | | 111.0 | | 31.0 | 46.4 |
| | | | | | 75.0 | 30.6 | 24.7 | 37.0 |
| | | | | | 150.0 | 4.5 | 8.4 | 12.6 |



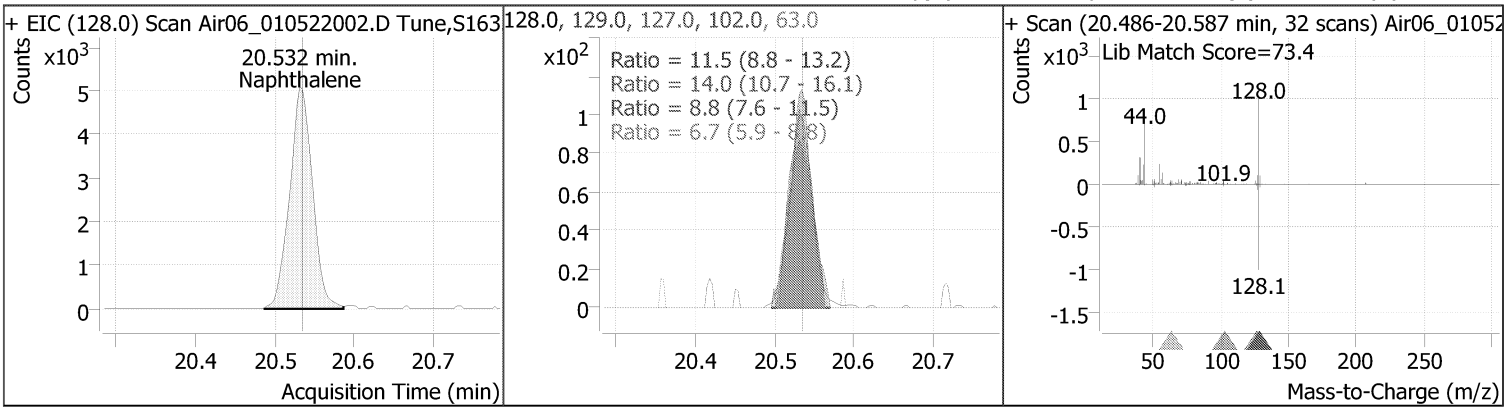

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.0133 | 17.86 | 0.00 | 1775 | 148.0 | 61.1 | 51.5 | 77.3 |
| | | | | | 111.0 | 57.0 | 33.2 | 49.9 |
| | | | | | 75.0 | 32.1 | 24.5 | 36.7 |



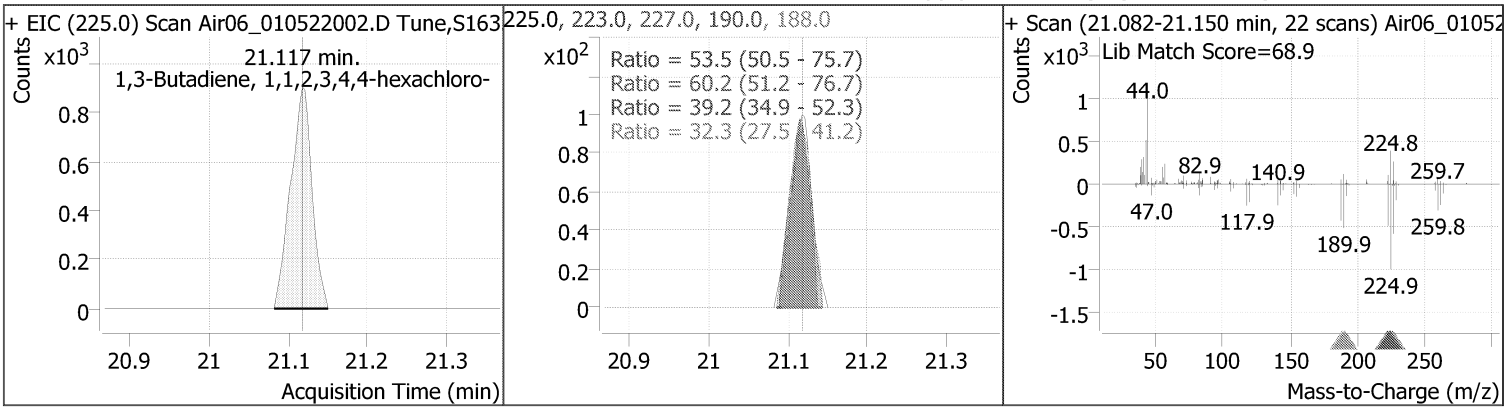
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0231 | 20.36 | -0.01 | 2464 | 182.0 | 97.7 | 76.5 | 114.7 |
| | | | | | 145.0 | 33.9 | 22.2 | 33.3 |
| | | | | | 109.0 | 24.5 | 18.1 | 27.2 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.0510 | 20.53 | -0.01 | 10226 | 127.0 | 14.0 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.5 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.8 | 7.6 | 11.5 |
| | | | | | 63.0 | 6.7 | 5.9 | 8.8 |

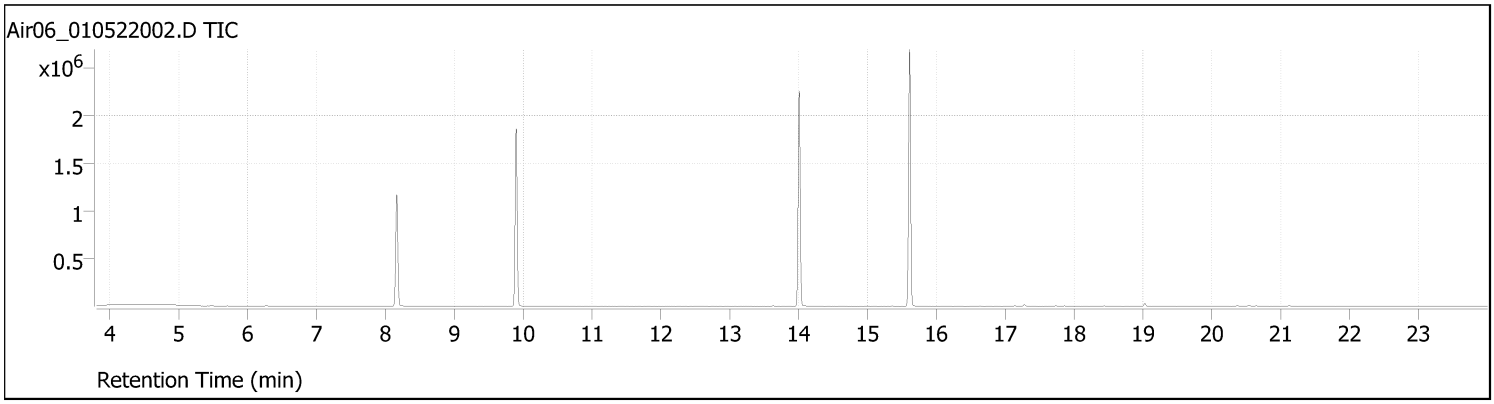


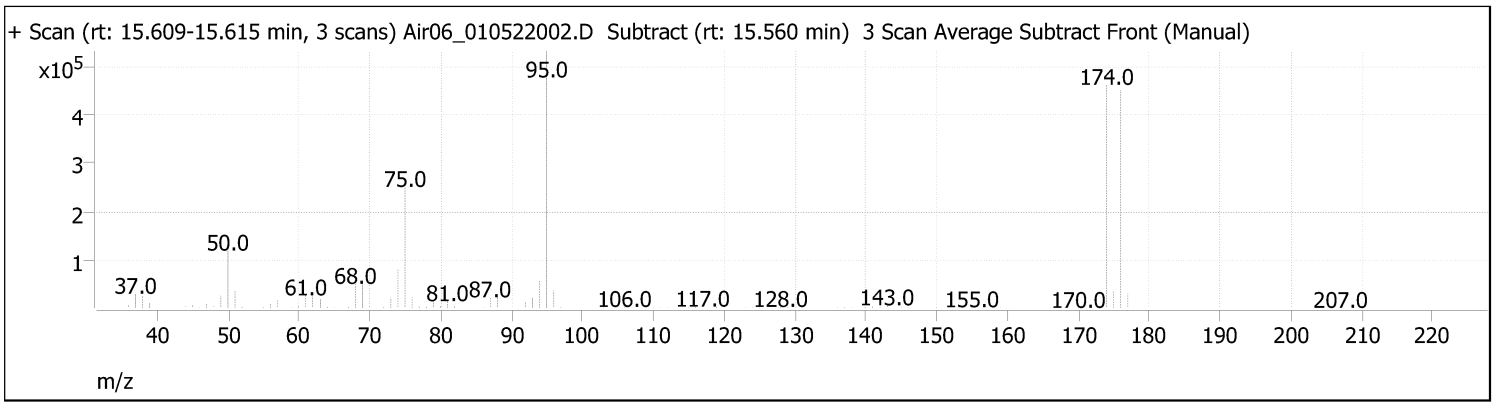

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0130 | 21.12 | 0.00 | 1697 | 227.0 | 60.2 | 51.2 | 76.7 |
| | | | | | 223.0 | 53.5 | 50.5 | 75.7 |
| | | | | | 190.0 | 39.2 | 34.9 | 52.3 |
| | | | | | 188.0 | 32.3 | 27.5 | 41.2 |



# Tune Evaluation Report

| | |
|---|---|
| Data Path: | D:\MassHunter\GCMS\1\data\2022\220105_ICAL\Air06_010522002.D |
| Acq on: | 1/5/2022 1:37:57 PM |
| Operator: | DJL/LJB |
| Sample: | Tune,S16352,5x |
| Inst Name: | Air-MS-06 |
| ALS Vial: | 6 |
| Method: | |




| Target Mass | Rel. To Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.4 | 119319 | Pass |
| 75 | 95 | 30 | 60 | 47.0 | 251071 | Pass |
| 95 | 95 | 100 | 100 | 100.0 | 533656 | Pass |
| 96 | 95 | 5 | 9 | 6.6 | 35471 | Pass |
| 173 | 174 | 0 | 2 | 0.0 | 0 | Pass |
| 174 | 95 | 50 | 100 | 86.8 | 463298 | Pass |
| 175 | 174 | 5 | 9 | 7.9 | 36452 | Pass |
| 176 | 174 | 95 | 101 | 97.8 | 452917 | Pass |
| 177 | 176 | 5 | 9 | 6.7 | 30130 | Pass |

ENTHALPY BFB TUNE FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-06 Run Name : TUNE IDF : 1.0
Seqnum : 372007975012 File : air06_010522012 Time : 05-JAN-2022 22:52

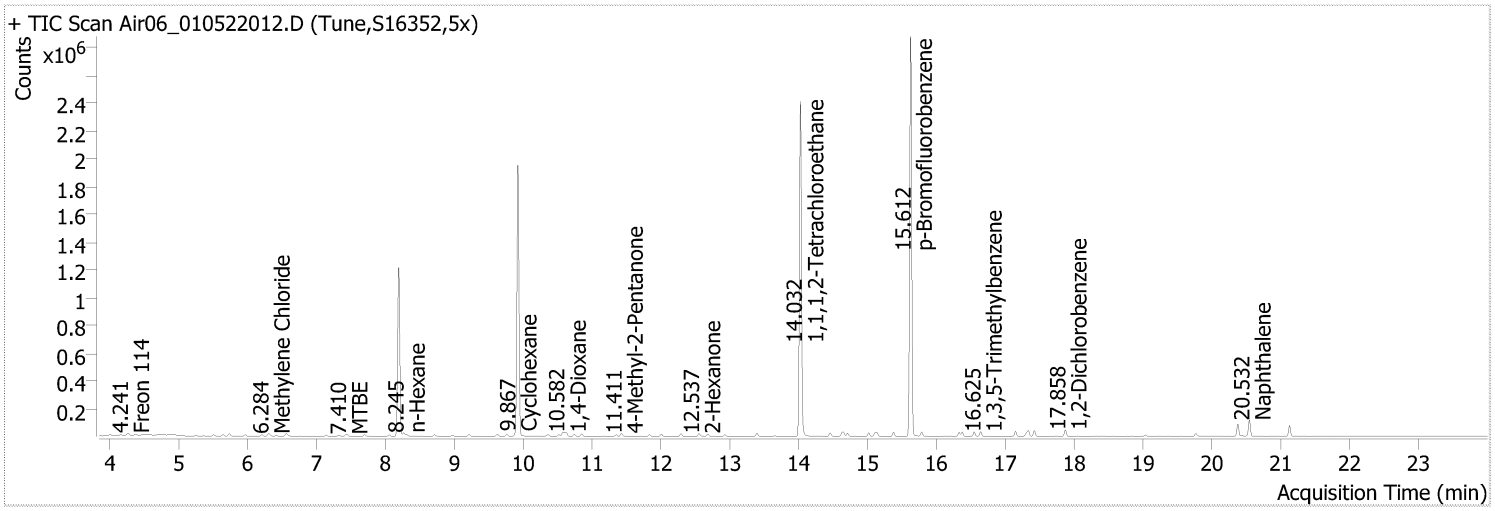
Standards: S16352 (5X)

| Mass | Ion Abundance Criteria | Abundance | % Relative Abundance | Q |
|---|---|---|---|---|
| 50 | 8% - 40% of mass 95 | 127100 | 22.36 | |
| 75 | 30% - 66% of mass 95 | 268792 | 47.29 | |
| 95 | | 568410 | 100.00 | |
| 96 | 5% - 9% of mass 95 | 37320 | 6.57 | |
| 173 | < 2% of mass 174 | 0 | 0.00 | |
| 174 | 50% - 120% of mass 95 | 503368 | 88.56 | |
| 175 | 4% - 9% of mass 174 | 39122 | 7.77 | |
| 176 | 93% - 101% of mass 174 | 492450 | 97.83 | |
| 177 | 5% - 9% of mass 176 | 31616 | 6.42 | |

Analyst: DJL Date: 01/06/22 Reviewer: SLL Date: 01/07/22

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522012.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 10:52:07 PM |
| Sample Name | Tune,S16352,5x | Instrument | Air-MS-06 |
| Vial | 8 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 220105_ICAL.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



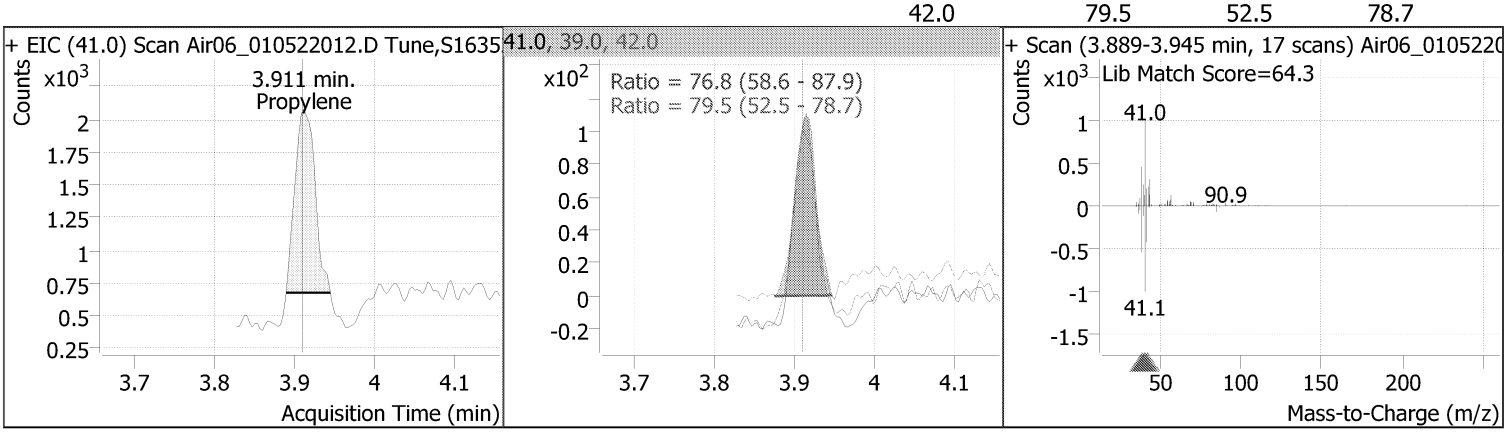

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 439286 | 10.0000 | nL/L | | 0.000 |
| M 1,4-Difluorobenzene | 9.906 | 114.0 | 1672950 | 10.0000 | nL/L | | -0.003 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 867065 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1163980 | 10.2086 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 102.09% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.911 | 41.0 | 2426 | 0.0561 | nL/L | # | 90 |
| T Freon 12 | 3.982 | 85.0 | 8111 | 0.0708 | nL/L | | 99 |
| T Chloromethane | 4.138 | 50.0 | 3886 | 0.0722 | nL/L | # | 94 |
| T Freon 114 | 4.241 | 135.0 | 6190 | 0.0766 | nL/L | | 89 |
| T Vinyl Chloride | 4.355 | 62.0 | 4129 | 0.0767 | nL/L | | 95 |
| T 1,3-Butadiene | 4.487 | 54.0 | 3150 | 0.0684 | nL/L | | 93 |
| T Butane | 4.546 | 43.0 | 6161 | 0.0689 | nL/L | | 95 |
| T Bromomethane | 4.750 | 96.0 | 2861 | 0.0722 | nL/L | # | 94 |
| T Chloroethane | 4.905 | 64.0 | 2373 | 0.0894 | nL/L | # | 68 |
| T Ethanol | 5.025 | 45.0 | 7582 | 0.2862 | nL/L | | 98 |
| T Vinyl bromide | 5.235 | 108.0 | 3360 | 0.0723 | nL/L | | 94 |
| T Acrolein | 5.339 | 56.0 | 2154 | 0.0922 | nL/L | | 88 |
| T Acetone | 5.487 | 58.0 | 4373 | 0.1584 | nL/L | # | 82 |
| T Trichloromonofluoromethane | 5.623 | 101.0 | 9822 | 0.0728 | nL/L | | 99 |
| T Isopropanol (IPA) | 5.711 | 45.0 | 27373 | 0.2769 | nL/L | | 98 |
| T n-Pentane | 5.947 | 43.0 | 7890 | 0.0714 | nL/L | | 99 |
| T 1,1-Dichloroethene | 6.190 | 61.0 | 8052 | 0.0802 | nL/L | | 99 |
| T Tert-butyl alcohol (TBA) | 6.297 | 59.0 | 13747 | 0.1201 | nL/L | | 97 |
| T Methylene Chloride | 6.284 | 84.0 | 5545 | 0.1141 | nL/L | | 93 |
| T 3-Chloropropene | 6.394 | 76.0 | 1552 | 0.0693 | nL/L | # | 86 |
| T Freon 113 | 6.539 | 101.0 | 7659 | 0.0706 | nL/L | | 95 |
| T Carbon Disulfide | 6.569 | 76.0 | 10623 | 0.0756 | nL/L | # | 96 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 6351 | 0.0755 | nL/L | | 95 |
| T 1,1-Dichloroethane | 7.300 | 63.0 | 7601 | 0.0736 | nL/L | # | 94 |
| T MTBE | 7.410 | 73.0 | 10382 | 0.0758 | nL/L | | 96 |
| T Vinyl Acetate | 7.430 | 43.0 | 15870 | 0.0915 | nL/L | # | 94 |
| T 2-Butanone | 7.675 | 43.0 | 17281 | 0.1294 | nL/L | | 97 |
| T cis-1,2-Dichloroethene | 8.035 | 61.0 | 6675 | 0.0784 | nL/L | | 97 |
| T Ethyl Acetate | 8.252 | 61.0 | 1967 | 0.0938 | nL/L | | 75 |
| T n-Hexane | 8.245 | 57.0 | 6998 | 0.0727 | nL/L | | 98 |
| T Chloroform | 8.290 | 83.0 | 8448 | 0.0778 | nL/L | | 80 |
| T Tetrahydrofuran | 8.695 | 72.0 | 2700 | 0.1127 | nL/L | | 91 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 5974 | 0.0751 | nL/L | # | 97 |
| T 1,1,1-Trichloroethane | 9.197 | 97.0 | 7919 | 0.0754 | nL/L | | 98 |
| T Benzene | 9.605 | 78.0 | 12442 | 0.0795 | nL/L | | 100 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 7835 | 0.0699 | nL/L | | 98 |
| T Cyclohexane | 9.867 | 84.0 | 5930 | 0.0907 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 10.339 | 63.0 | 5457 | 0.0796 | nL/L | | 95 |
| T Methane, bromodichloro- | 10.501 | 83.0 | 8975 | 0.0803 | nL/L | | 98 |
| T 1,4-Dioxane | 10.582 | 88.0 | 18334 | 0.5127 | nL/L | # | 85 |
| T Trichloroethene | 10.553 | 132.0 | 6832 | 0.0980 | nL/L | | 99 |
| T 2,2,4-Trimethylpentane | 10.608 | 57.0 | 28013 | 0.0898 | nL/L | | 92 |
| T Methyl methacrylate | 10.724 | 69.0 | 5130 | 0.0882 | nL/L | # | 97 |
| T n-Heptane | 10.834 | 71.0 | 4455 | 0.0827 | nL/L | | 87 |
| T cis-1,3-Dichloropropene | 11.333 | 110.0 | 1633 | 0.0751 | nL/L | # | 83 |
| T 4-Methyl-2-Pentanone | 11.411 | 58.0 | 7090 | 0.1180 | nL/L | | 97 |
| T trans-1,3-Dichloropropene | 11.822 | 110.0 | 1708 | 0.0766 | nL/L | | 94 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 5535 | 0.0848 | nL/L | | 98 |
| T Toluene | 12.275 | 91.0 | 16038 | 0.0809 | nL/L | | 98 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 4060915 | 0.2908 | nL/L | | 100 |
| T 2-Hexanone | 12.537 | 58.0 | 10507 | 0.1361 | nL/L | | 88 |
| T Dibromochloromethane | 12.663 | 129.0 | 9467 | 0.0799 | nL/L | | 98 |
| T 1,2-Dibromoethane | 12.912 | 108.9 | 8424 | 0.0839 | nL/L | | 97 |
| T Tetrachloroethene | 13.379 | 166.0 | 8218 | 0.0802 | nL/L | | 97 |
| T 1,1,1,2-Tetrachloroethane | 14.032 | 131.0 | 6156 | 0.0823 | nL/L | # | 24 |
| T Benzene, chloro- | 14.055 | 112.0 | 13663 | 0.0920 | nL/L | # | 1 |
| T Ethylbenzene | 14.443 | 91.0 | 19749 | 0.0837 | nL/L | | 98 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 2776740 | 0.2722 | nL/L | | 100 |
| T m,p-Xylenes | 14.631 | 91.0 | 31545 | 0.1663 | nL/L | | 96 |
| T Bromoform | 14.693 | 173.0 | 12961 | 0.0997 | nL/L | | 94 |
| T Styrene | 15.003 | 104.0 | 14080 | 0.0937 | nL/L | | 98 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 15106 | 0.1054 | nL/L | | 100 |
| T o-Xylene | 15.123 | 91.0 | 16921 | 0.0867 | nL/L | | 95 |
| T n-Nonane | 15.363 | 85.0 | 4013 | 0.0891 | nL/L | | 86 |
| T Isopropylbenzene | 15.770 | 105.0 | 23854 | 0.0892 | nL/L | | 99 |
| T 2-Chlorotoluene | 16.314 | 126.0 | 6646 | 0.0976 | nL/L | | 97 |
| T n-Propylbenzene | 16.363 | 120.0 | 6735 | 0.0902 | nL/L | | 82 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 24366 | 0.0921 | nL/L | | 99 |
| T 1,3,5-Trimethylbenzene | 16.625 | 105.0 | 22065 | 0.0963 | nL/L | | 98 |
| T 1,2,4-Trimethylbenzene | 17.133 | 105.0 | 23188 | 0.1019 | nL/L | | 97 |
| T Benzyl chloride | 17.295 | 91.0 | 17771 | 0.0888 | nL/L | # | 95 |
| T 1,3-Dichlorobenzene | 17.321 | 146.0 | 19650 | 0.1259 | nL/L | | 98 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 20971 | 0.1329 | nL/L | | 98 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 23099 | 0.1518 | nL/L | | 98 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 35846 | 0.2858 | nL/L | | 98 |
| T Naphthalene | 20.532 | 128.0 | 112648 | 0.4340 | nL/L | | 99 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.114 | 225.0 | 19259 | 0.1429 | nL/L | | 98 |

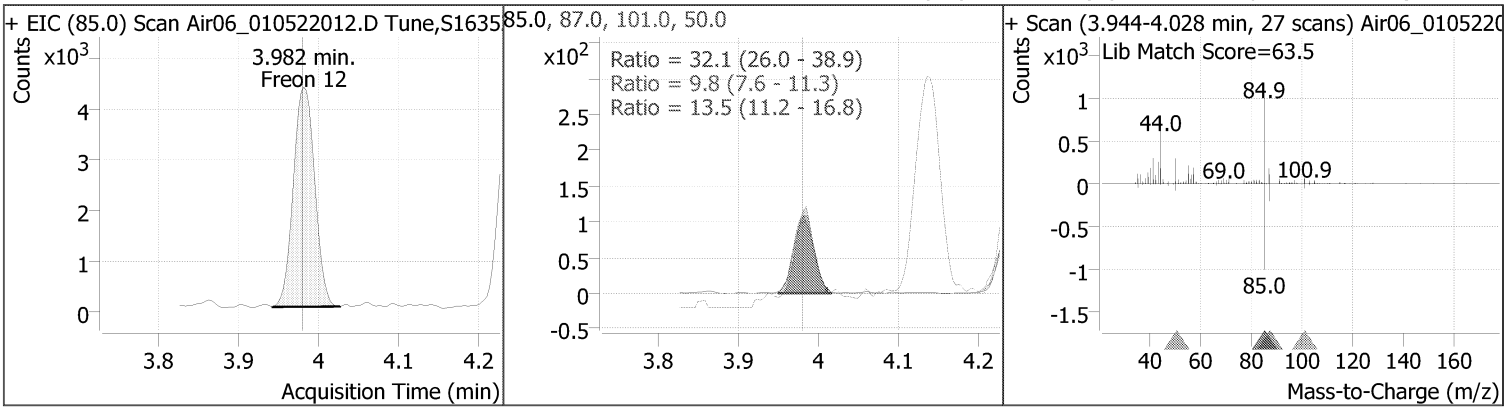
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

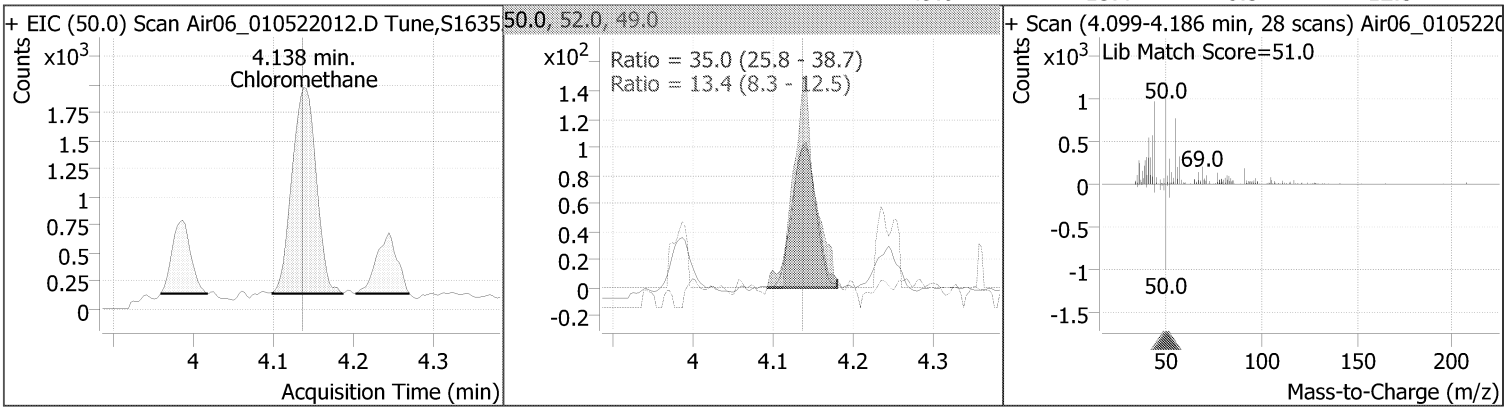
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.0561 | 3.91 | 0.00 | 2426 | 39.0 | 76.8 | 58.6 | 87.9 |
| | | | | | 42.0 | 79.5 | 52.5 | 78.7 |



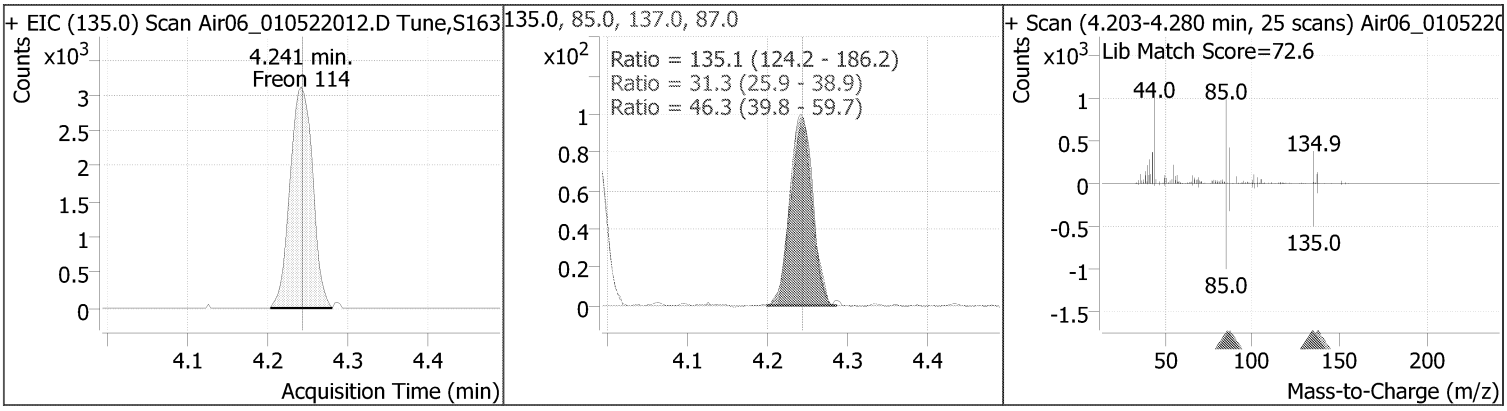

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.0708 | 3.98 | 0.00 | 8111 | 87.0 | 32.1 | 26.0 | 38.9 |
| | | | | | 50.0 | 13.5 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.8 | 7.6 | 11.3 |



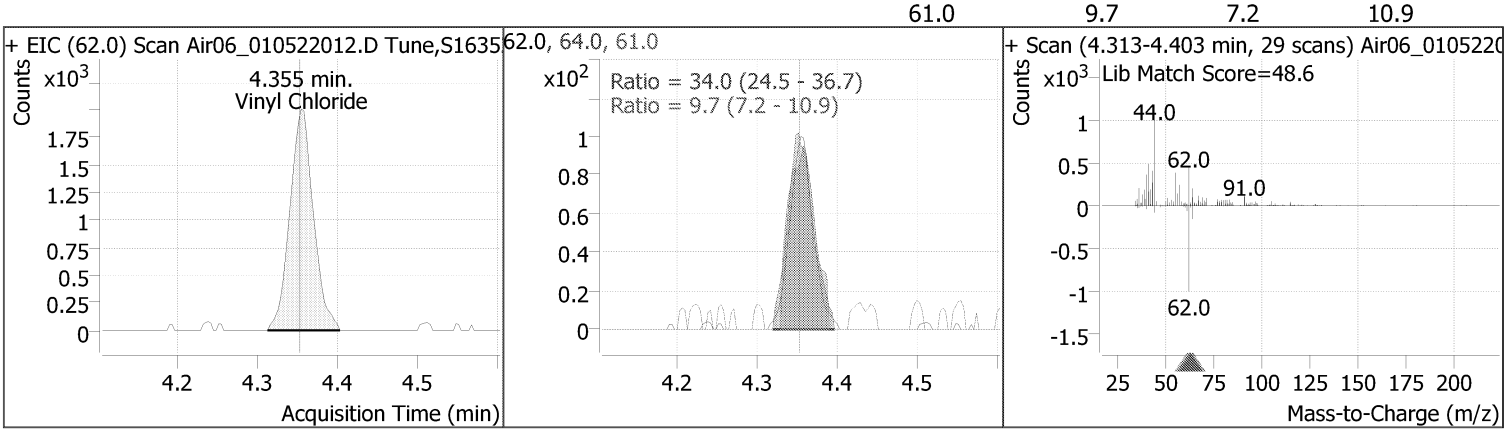

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0722 | 4.14 | 0.00 | 3886 | 52.0 | 35.0 | 25.8 | 38.7 |
| | | | | | 49.0 | 13.4 | 8.3 | 12.5 |



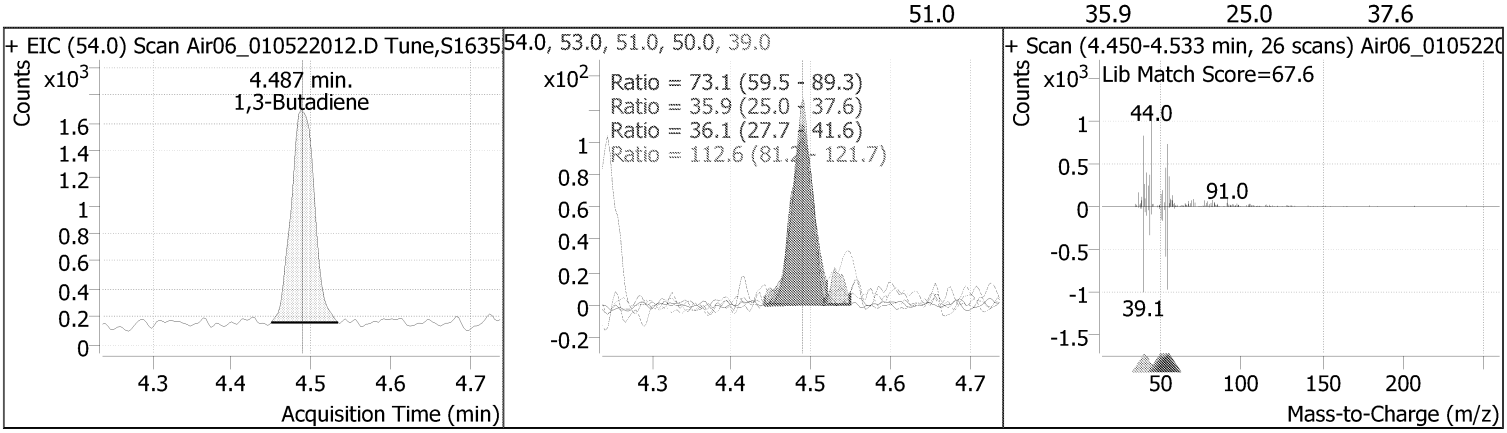
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.0766 | 4.24 | 0.00 | 6190 | 85.0 | 135.1 | 124.2 | 186.2 |
| | | | | | 87.0 | 46.3 | 39.8 | 59.7 |
| | | | | | 137.0 | 31.3 | 25.9 | 38.9 |



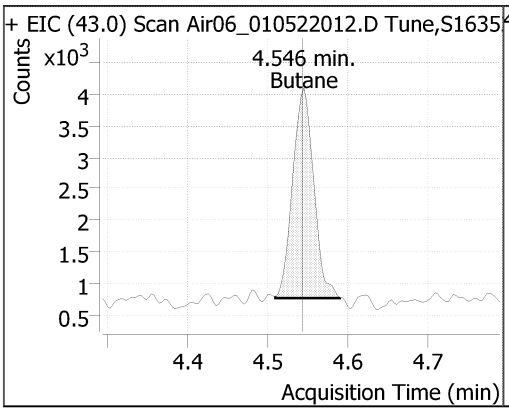

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.0767 | 4.35 | 0.00 | 4129 | 64.0 | 34.0 | 24.5 | 36.7 |
| | | | | | 61.0 | 9.7 | 7.2 | 10.9 |

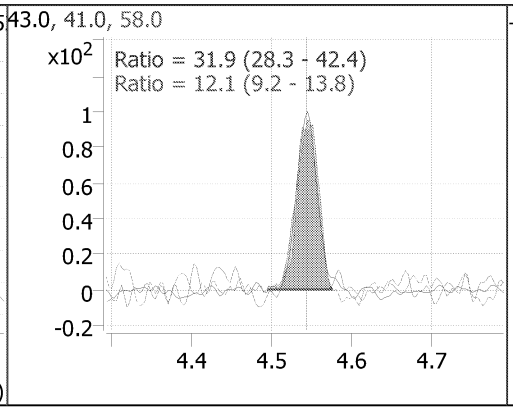


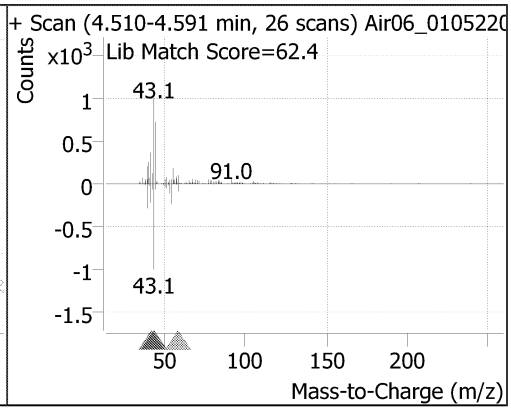

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0684 | 4.49 | 0.00 | 3150 | 39.0 | 112.6 | 81.2 | 121.7 |
| | | | | | 53.0 | 73.1 | 59.5 | 89.3 |
| | | | | | 50.0 | 36.1 | 27.7 | 41.6 |
| | | | | | 51.0 | 35.9 | 25.0 | 37.6 |



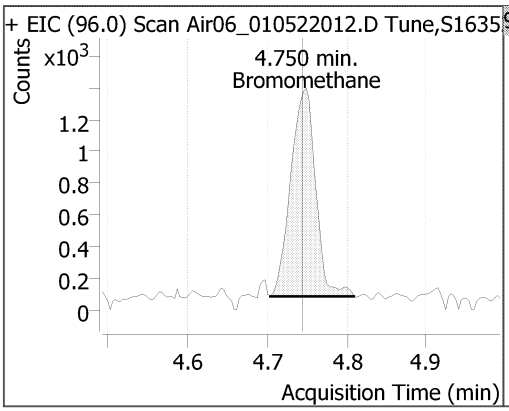
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0689 | 4.55 | 0.00 | 6161 | 41.0 | 31.9 | 28.3 | 42.4 |
| | | | | | 58.0 | 12.1 | 9.2 | 13.8 |

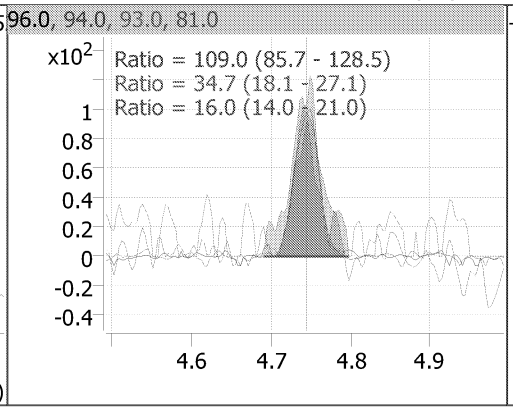


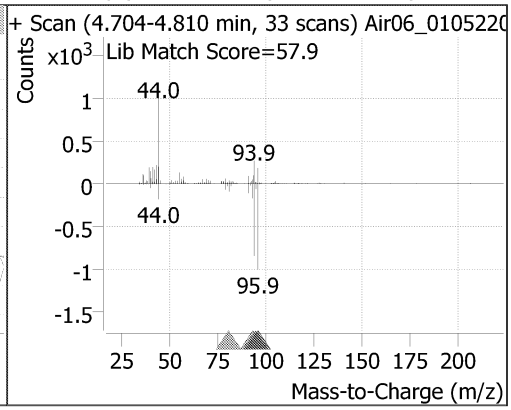



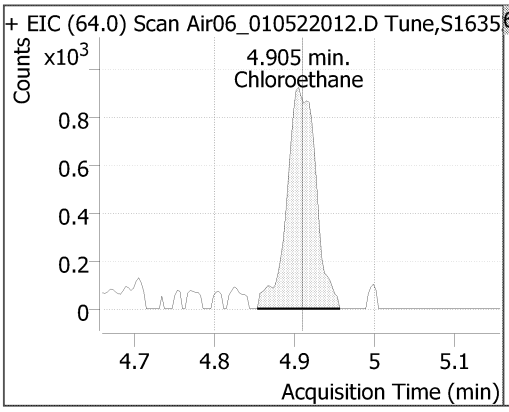

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 0.0722 | 4.75 | 0.01 | 2861 | 94.0 | 109.0 | 85.7 | 128.5 |
| | | | | | 93.0 | 34.7 | 18.1 | 27.1 |
| | | | | | 81.0 | 16.0 | 14.0 | 21.0 |

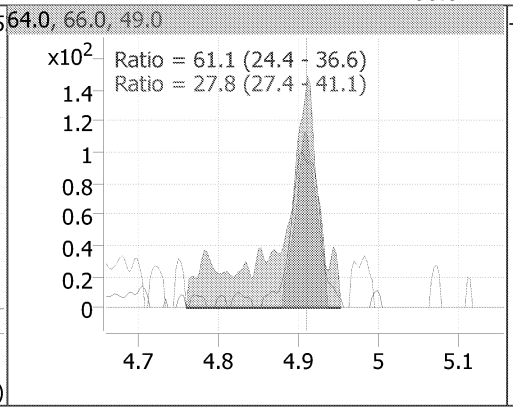


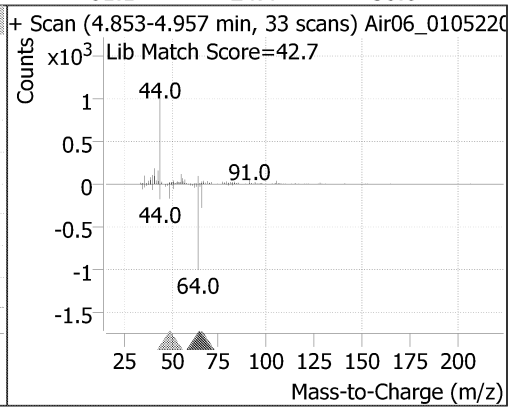



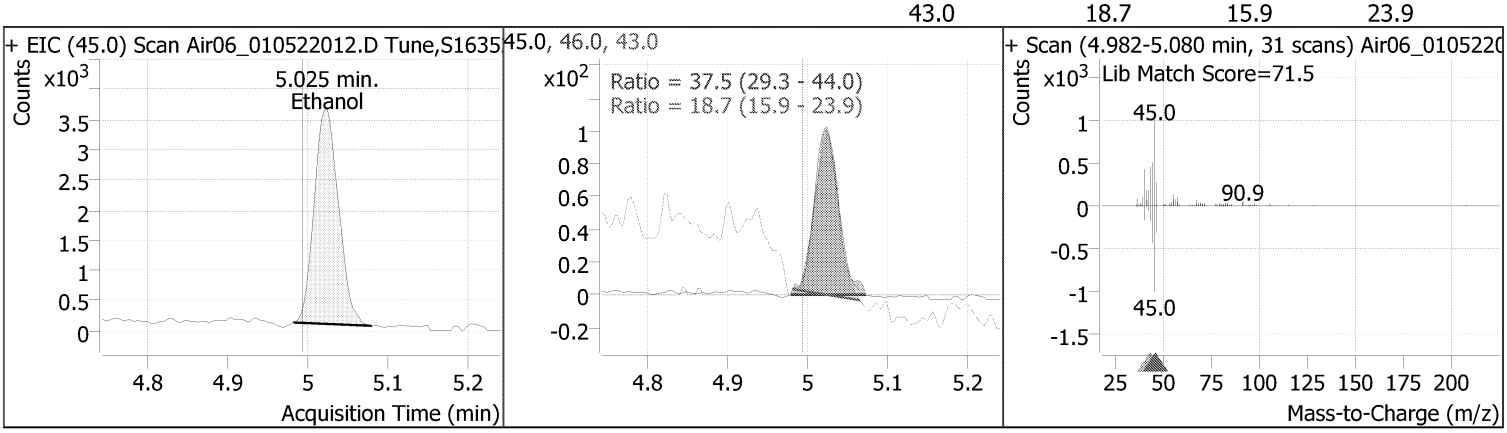

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.0894 | 4.90 | 0.00 | 2373 | 49.0 | 27.8 | 27.4 | 41.1 |
| | | | | | 66.0 | 61.1 | 24.4 | 36.6 |



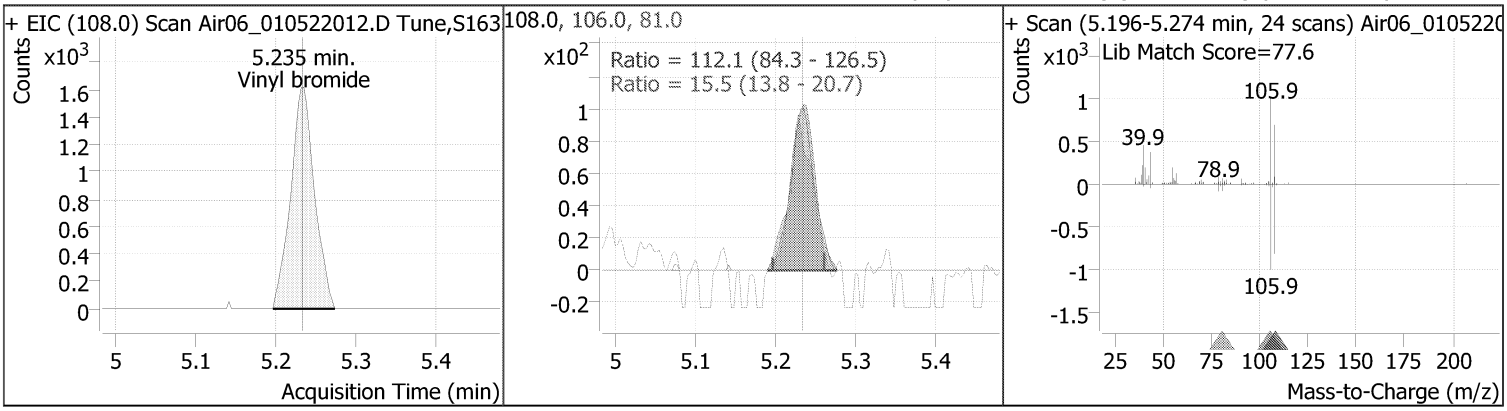



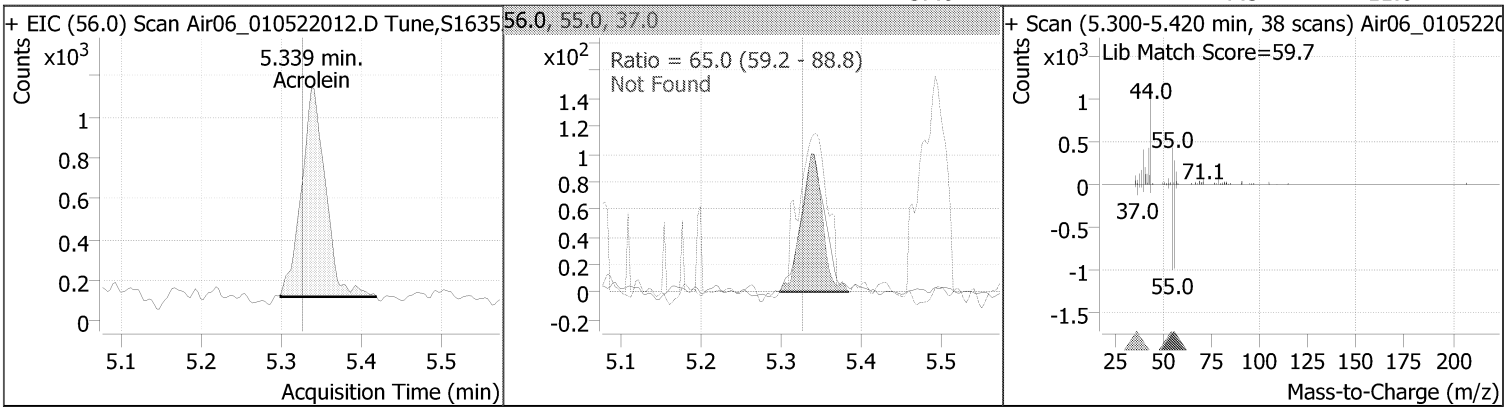
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.2862 | 5.02 | 0.03 | 7582 | 46.0 | 37.5 | 29.3 | 44.0 |
| | | | | | 43.0 | 18.7 | 15.9 | 23.9 |



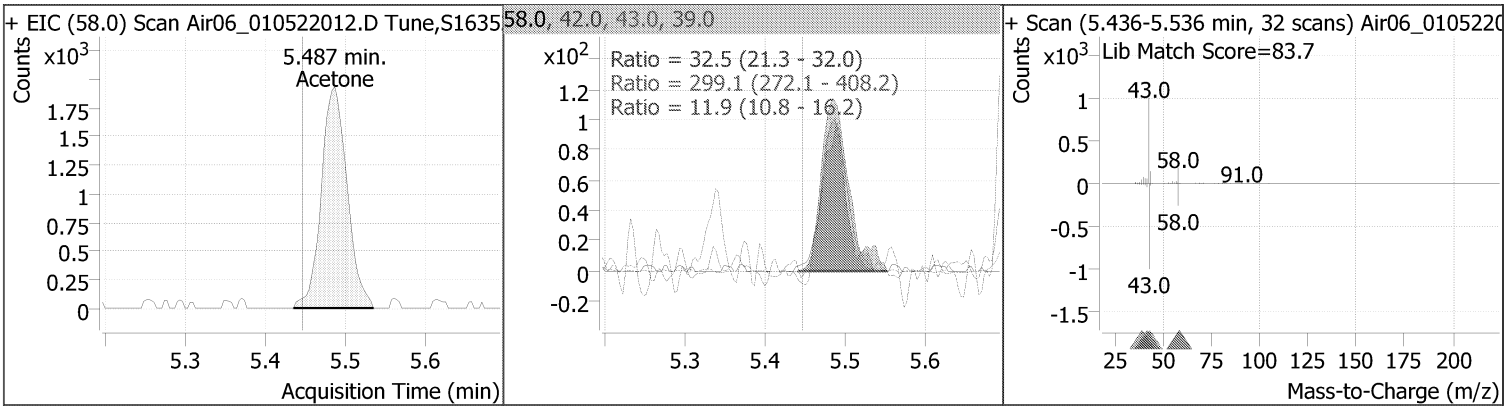

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 0.0723 | 5.24 | 0.00 | 3360 | 106.0 | 112.1 | 84.3 | 126.5 |
| | | | | | 81.0 | 15.5 | 13.8 | 20.7 |



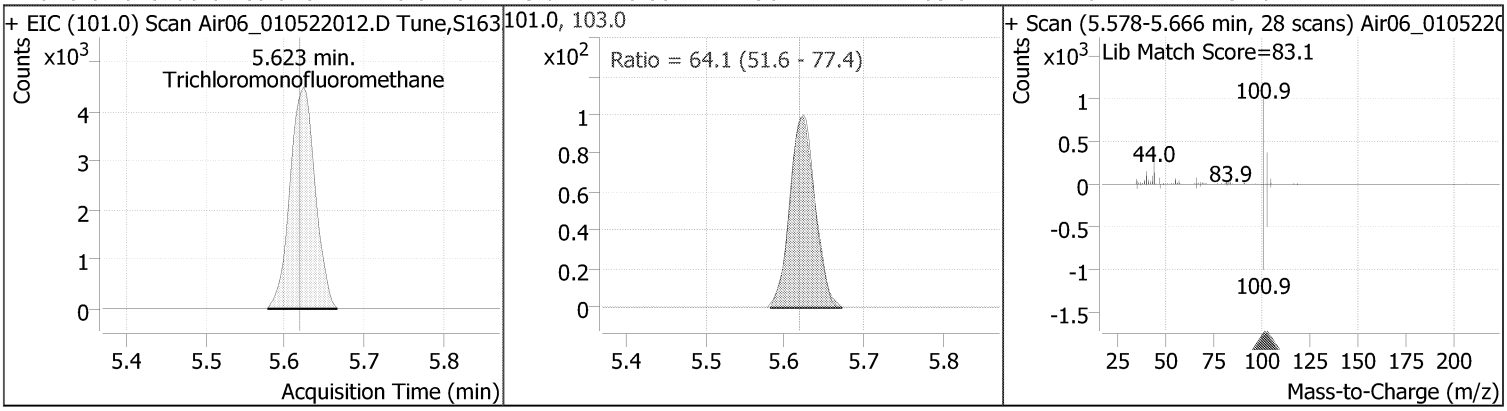

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0922 | 5.34 | 0.01 | 2154 | 55.0 | 65.0 | 59.2 | 88.8 |
| | | | | | 37.0 | | 7.3 | 11.0 |



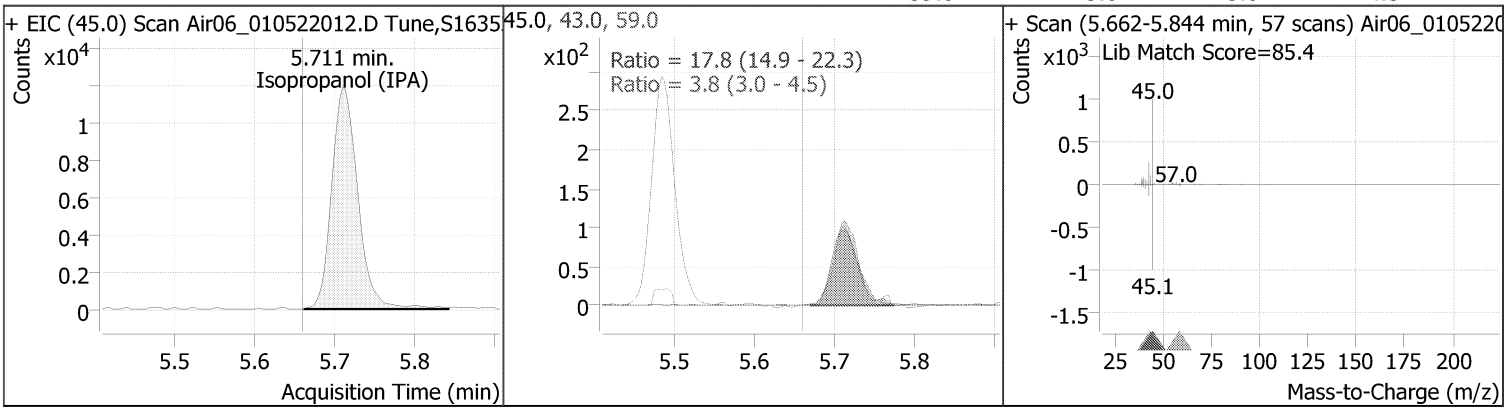
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.1584 | 5.49 | 0.04 | 4373 | 43.0 | 299.1 | 272.1 | 408.2 |
| | | | | | 42.0 | 32.5 | 21.3 | 32.0 |
| | | | | | 39.0 | 11.9 | 10.8 | 16.2 |



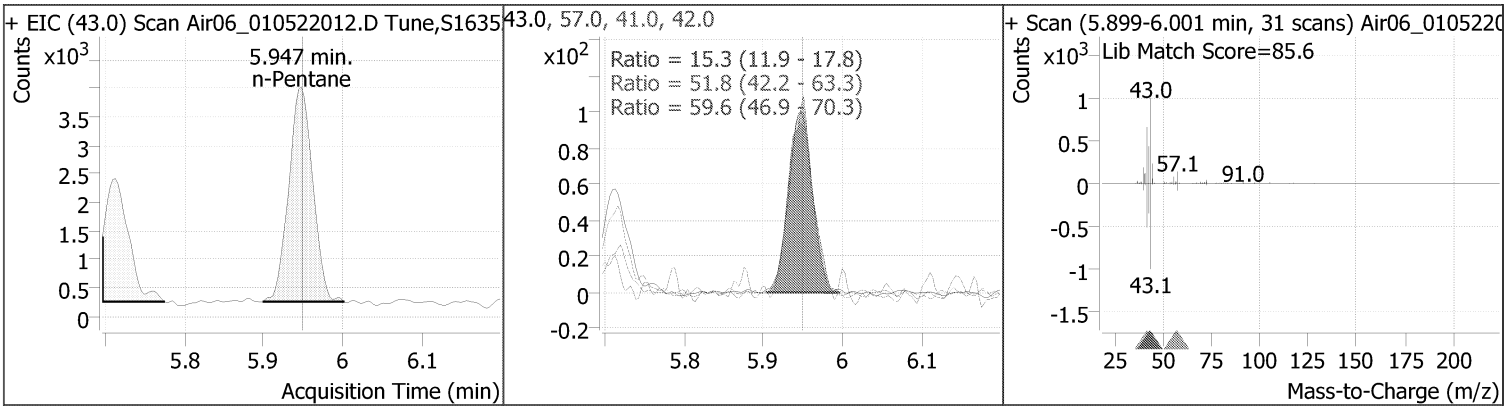

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 0.0728 | 5.62 | 0.00 | 9822 | 103.0 | 64.1 | 51.6 | 77.4 |



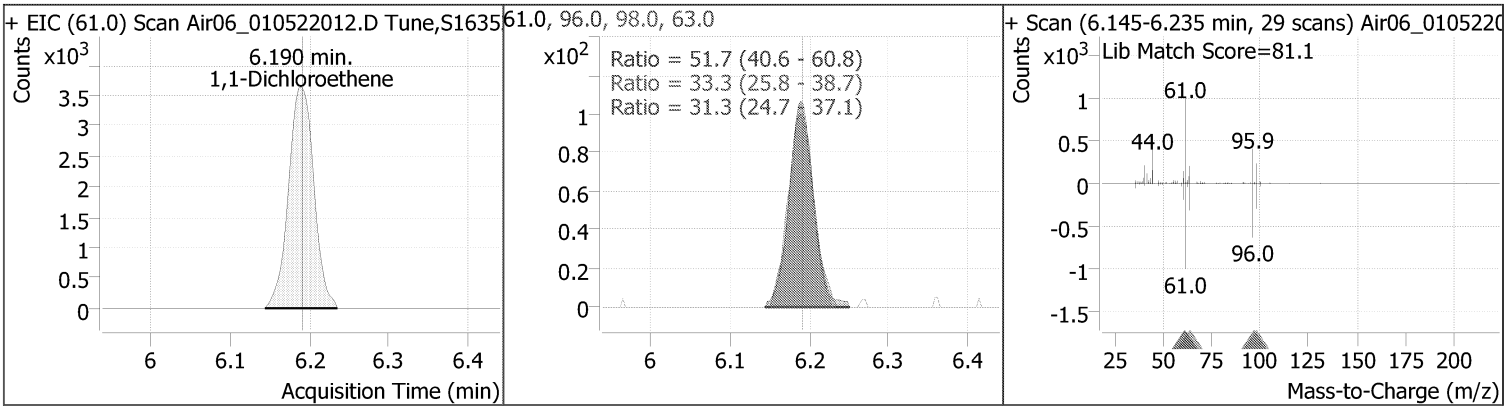

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.2769 | 5.71 | 0.05 | 27373 | 43.0 | 17.8 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.8 | 3.0 | 4.5 |



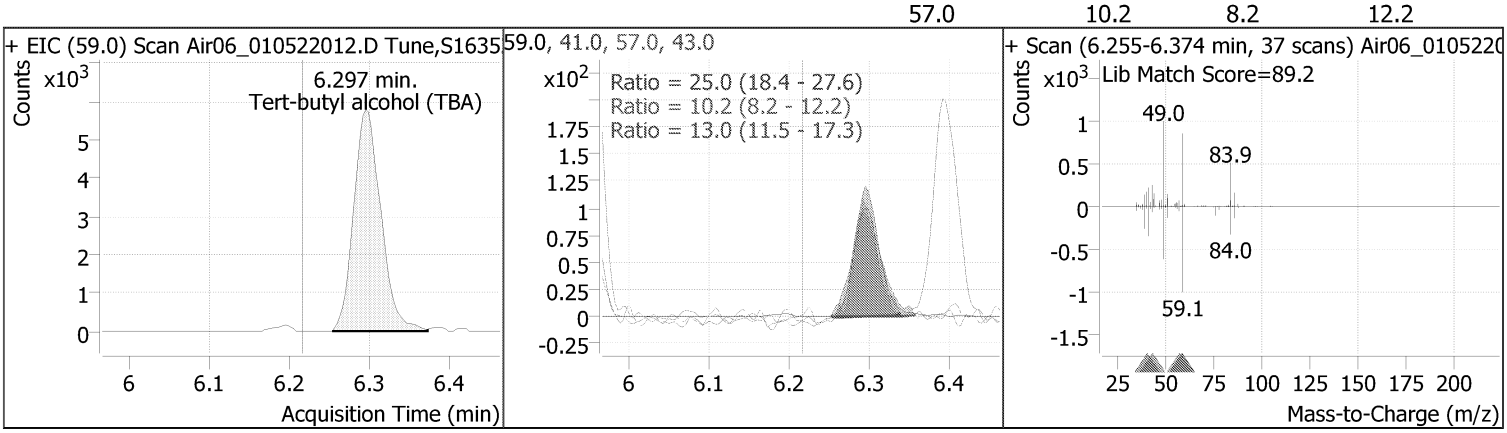
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.0714 | 5.95 | 0.00 | 7890 | 42.0 | 59.6 | 46.9 | 70.3 |
| | | | | | 41.0 | 51.8 | 42.2 | 63.3 |
| | | | | | 57.0 | 15.3 | 11.9 | 17.8 |



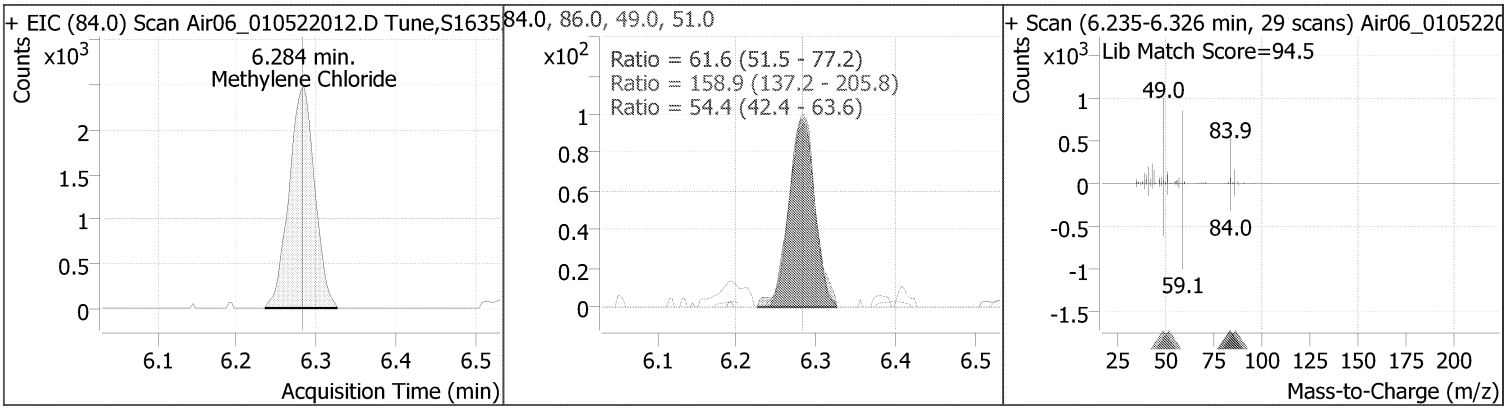

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0802 | 6.19 | 0.00 | 8052 | 96.0 | 51.7 | 40.6 | 60.8 |
| | | | | | 98.0 | 33.3 | 25.8 | 38.7 |
| | | | | | 63.0 | 31.3 | 24.7 | 37.1 |



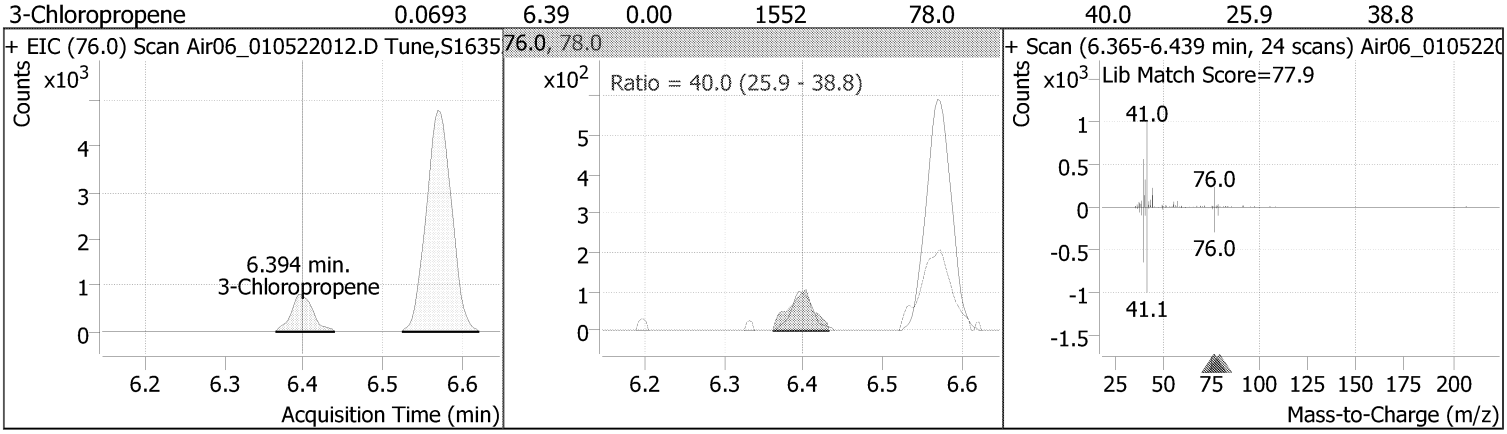

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.1201 | 6.30 | 0.08 | 13747 | 41.0 | 25.0 | 18.4 | 27.6 |
| | | | | | 43.0 | 13.0 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.2 | 8.2 | 12.2 |



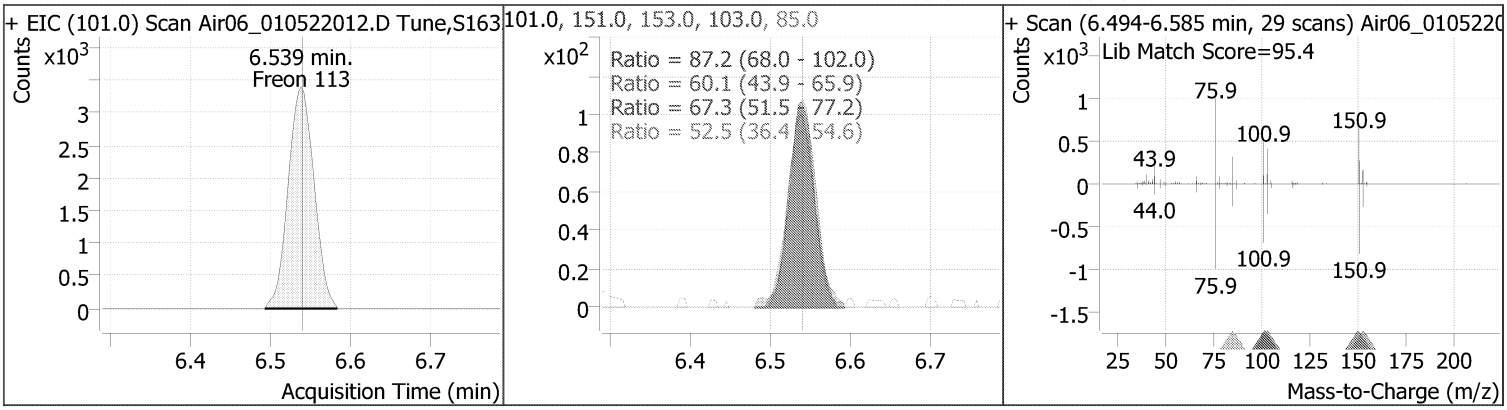
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1141 | 6.28 | 0.00 | 5545 | 49.0 | 158.9 | 137.2 | 205.8 |
| | | | | | 86.0 | 61.6 | 51.5 | 77.2 |
| | | | | | 51.0 | 54.4 | 42.4 | 63.6 |



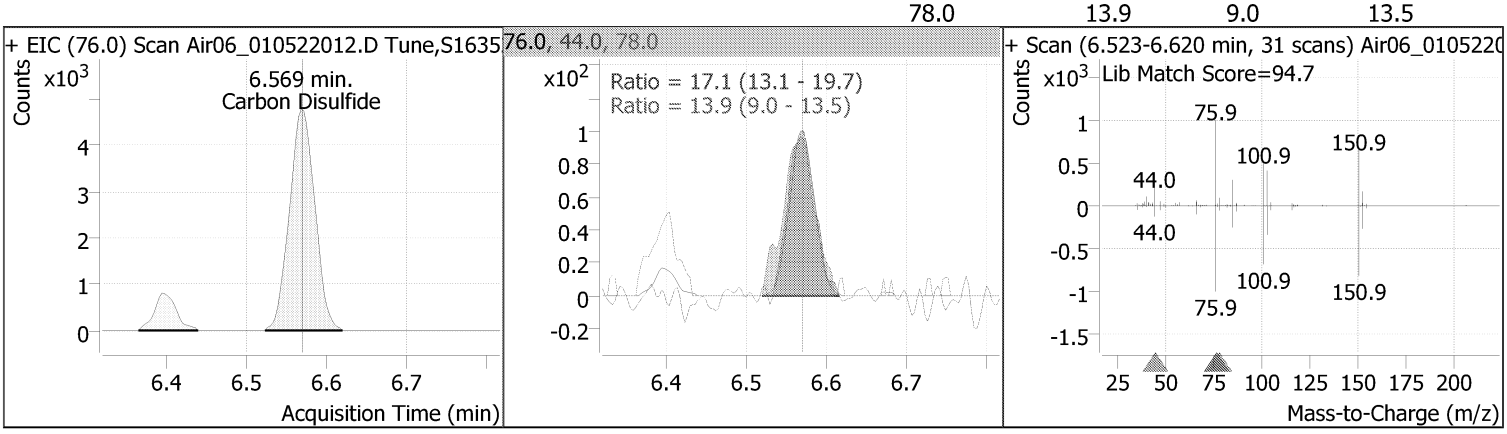

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 0.0693 | 6.39 | 0.00 | 1552 | 78.0 | 40.0 | 25.9 | 38.8 |



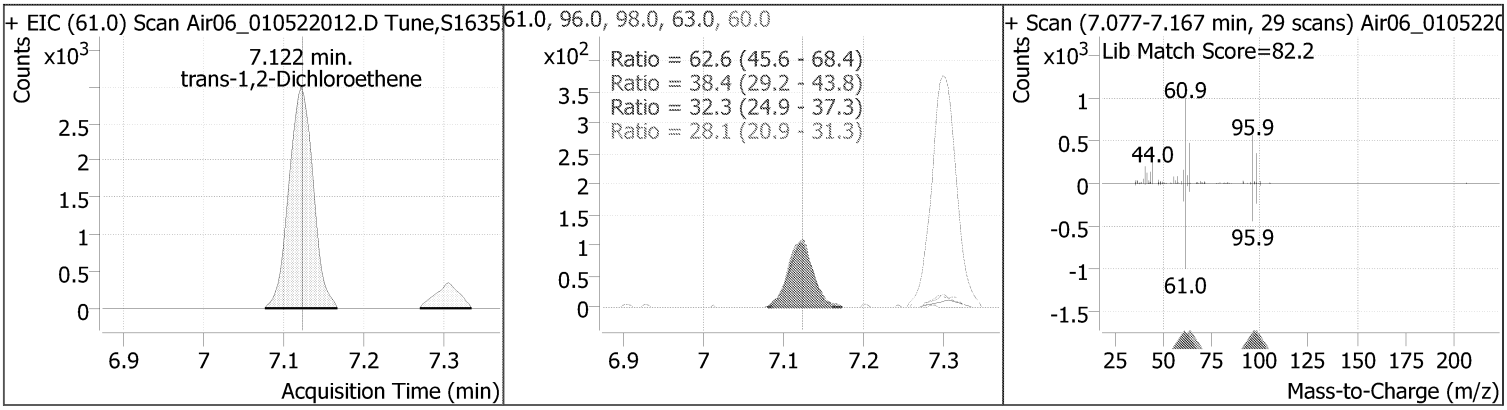

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.0706 | 6.54 | 0.00 | 7659 | 151.0 | 87.2 | 68.0 | 102.0 |
| | | | | | 103.0 | 67.3 | 51.5 | 77.2 |
| | | | | | 153.0 | 60.1 | 43.9 | 65.9 |
| | | | | | 85.0 | 52.5 | 36.4 | 54.6 |



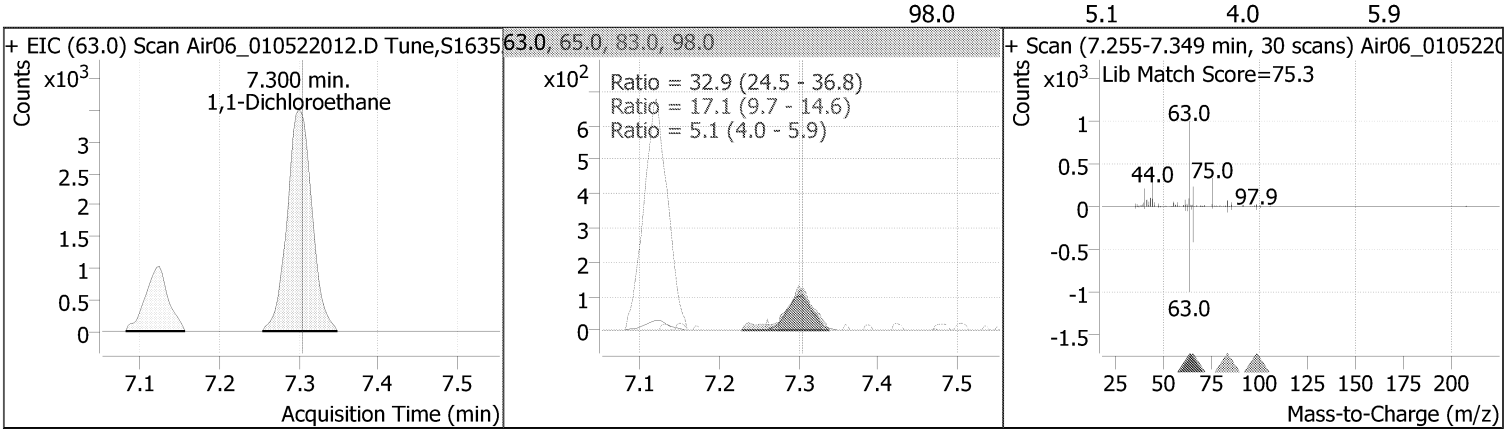
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.0756 | 6.57 | 0.00 | 10623 | 44.0 | 17.1 | 13.1 | 19.7 |
| | | | | | 78.0 | 13.9 | 9.0 | 13.5 |



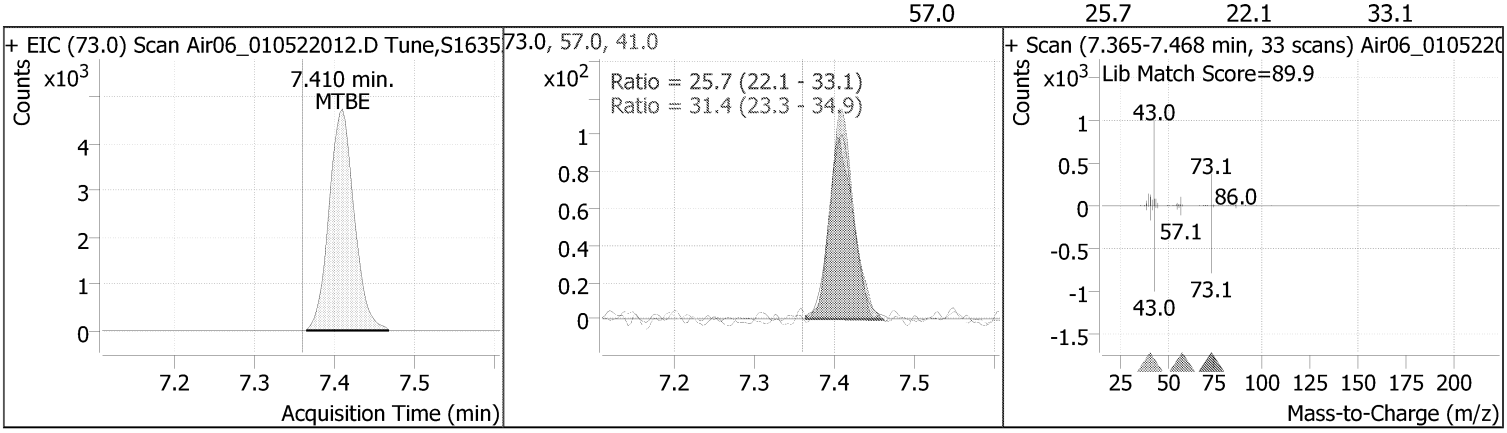

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.0755 | 7.12 | 0.00 | 6351 | 96.0 | 62.6 | 45.6 | 68.4 |
| | | | | | 98.0 | 38.4 | 29.2 | 43.8 |
| | | | | | 63.0 | 32.3 | 24.9 | 37.3 |
| | | | | | 60.0 | 28.1 | 20.9 | 31.3 |



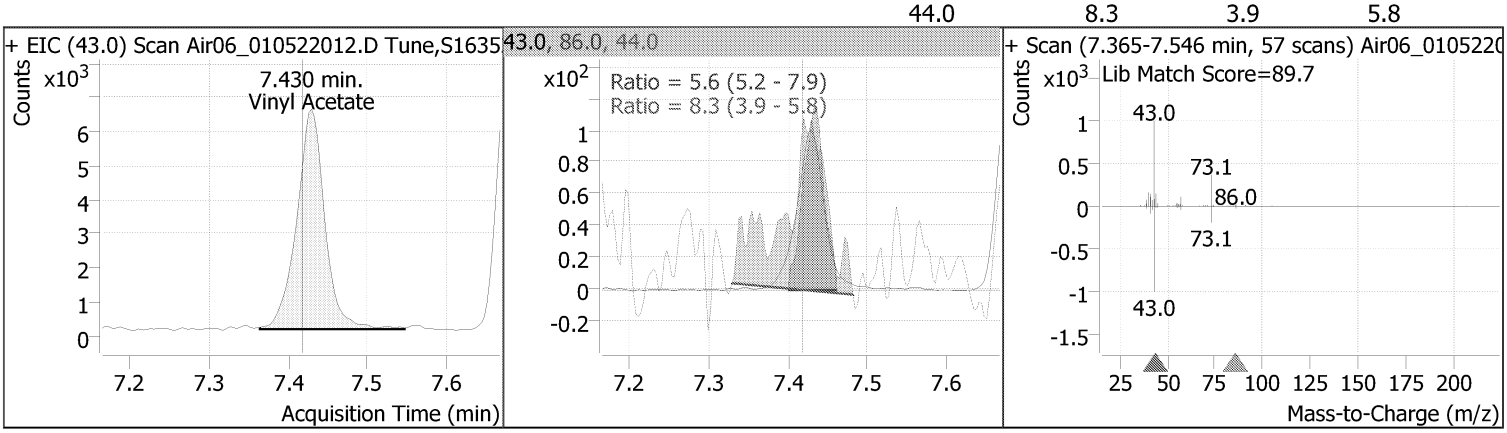

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.0736 | 7.30 | 0.00 | 7601 | 65.0 | 32.9 | 24.5 | 36.8 |
| | | | | | 83.0 | 17.1 | 9.7 | 14.6 |
| | | | | | 98.0 | 5.1 | 4.0 | 5.9 |



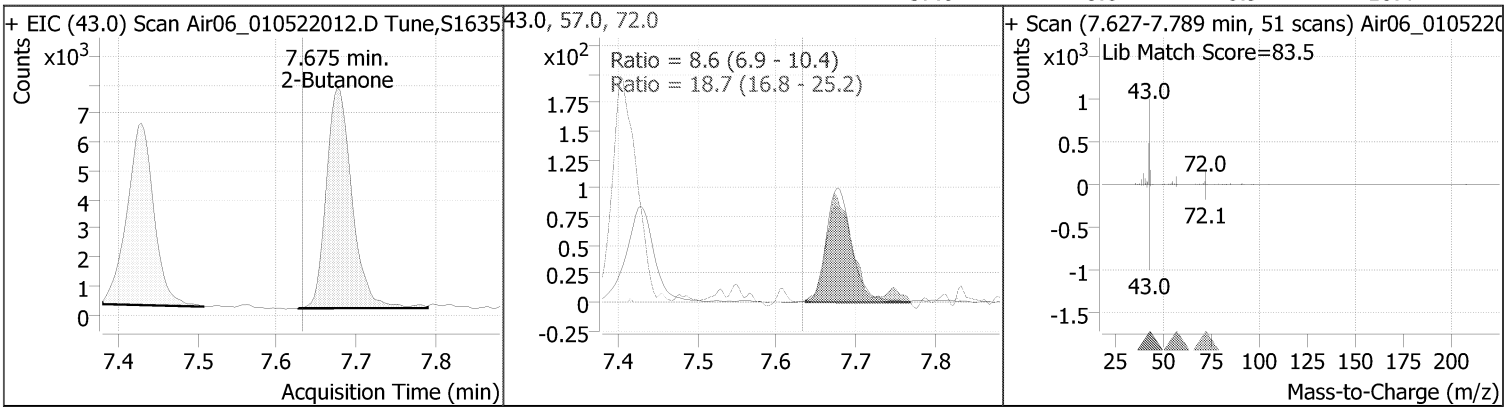
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.0758 | 7.41 | 0.05 | 10382 | 41.0 | 31.4 | 23.3 | 34.9 |
| | | | | | 57.0 | 25.7 | 22.1 | 33.1 |



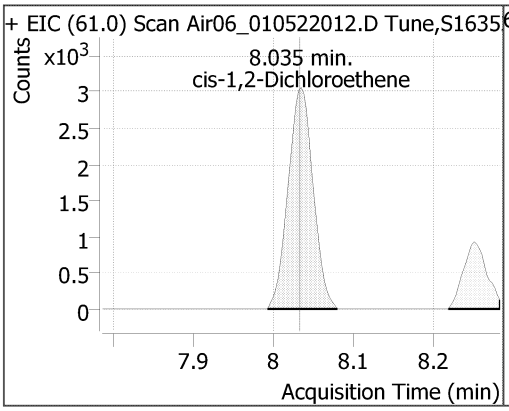

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.0915 | 7.43 | 0.01 | 15870 | 86.0 | 5.6 | 5.2 | 7.9 |
| | | | | | 44.0 | 8.3 | 3.9 | 5.8 |

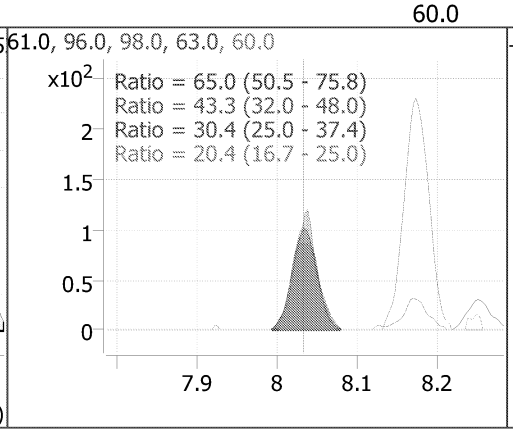


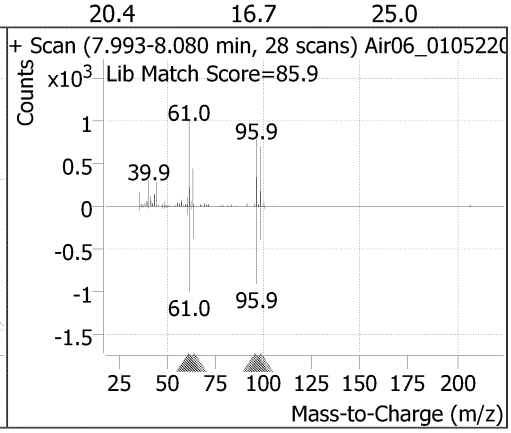

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.1294 | 7.68 | 0.05 | 17281 | 72.0 | 18.7 | 16.8 | 25.2 |
| | | | | | 57.0 | 8.6 | 6.9 | 10.4 |



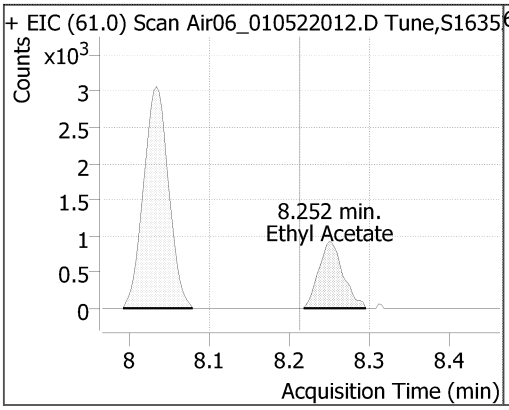
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.0784 | 8.03 | 0.00 | 6675 | 96.0 | 65.0 | 50.5 | 75.8 |
| | | | | | 98.0 | 43.3 | 32.0 | 48.0 |
| | | | | | 63.0 | 30.4 | 25.0 | 37.4 |
| | | | | | 60.0 | 20.4 | 16.7 | 25.0 |

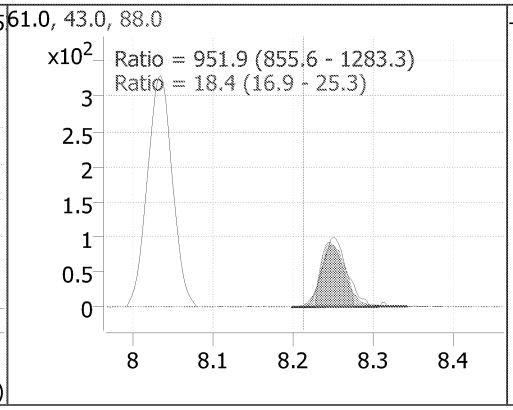


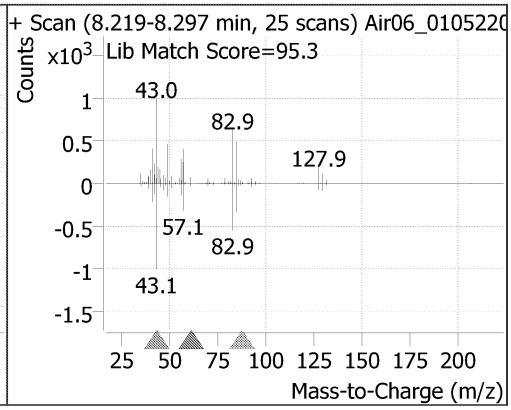



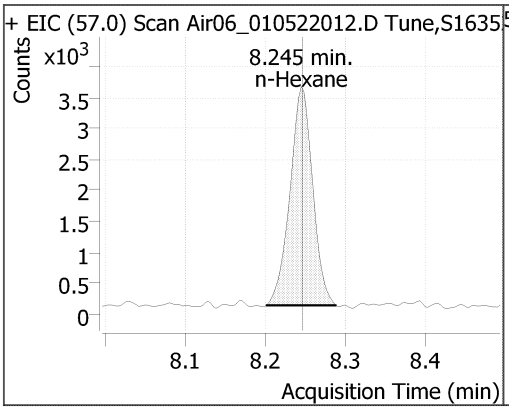

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.0938 | 8.25 | 0.04 | 1967 | 43.0 | 951.9 | 855.6 | 1283.3 |
| | | | | | 88.0 | 18.4 | 16.9 | 25.3 |

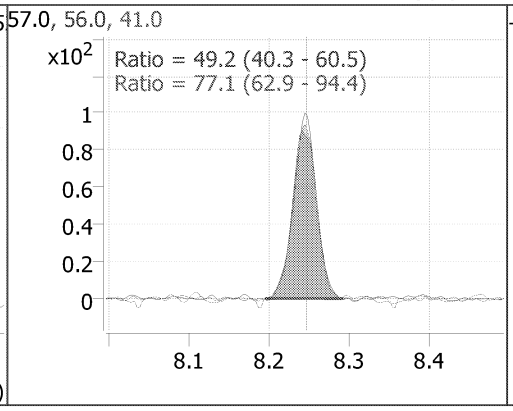


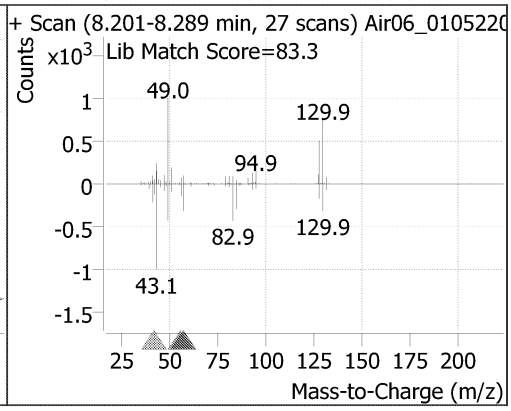



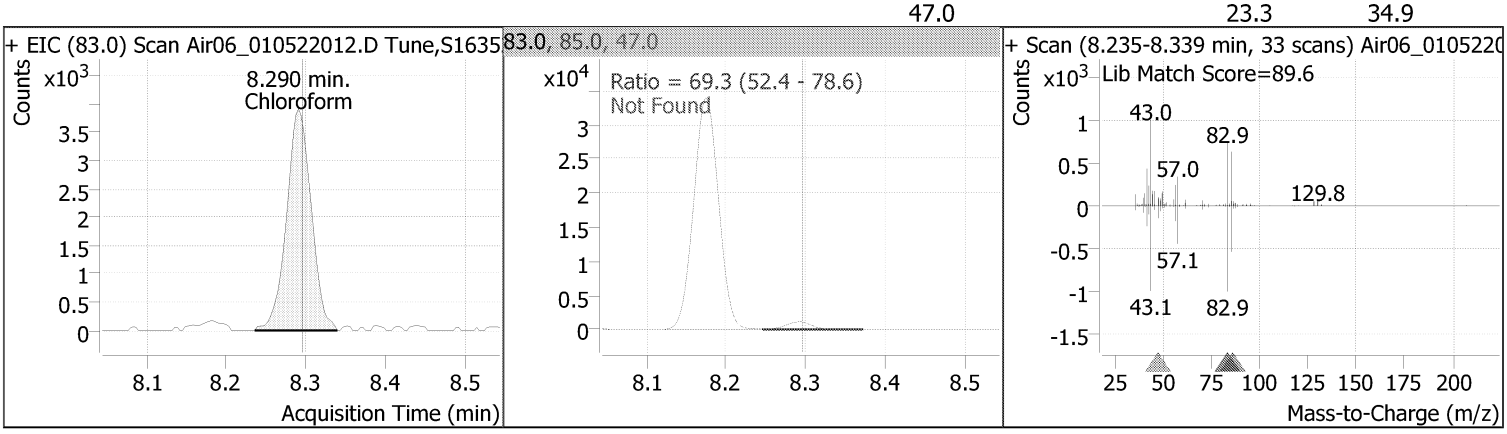

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0727 | 8.25 | 0.00 | 6998 | 41.0 | 77.1 | 62.9 | 94.4 |
| | | | | | 56.0 | 49.2 | 40.3 | 60.5 |



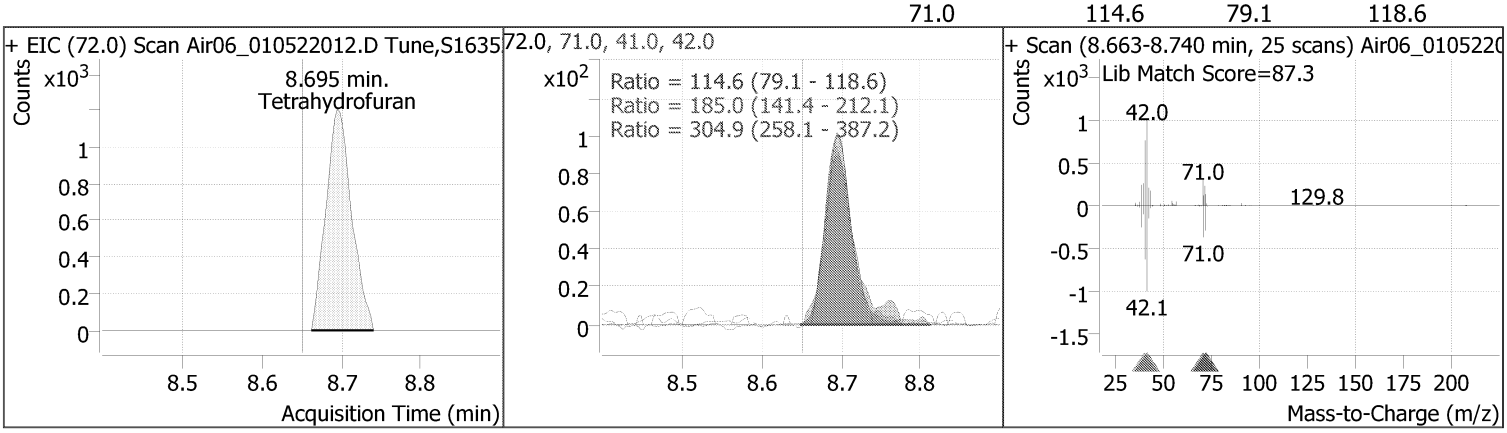



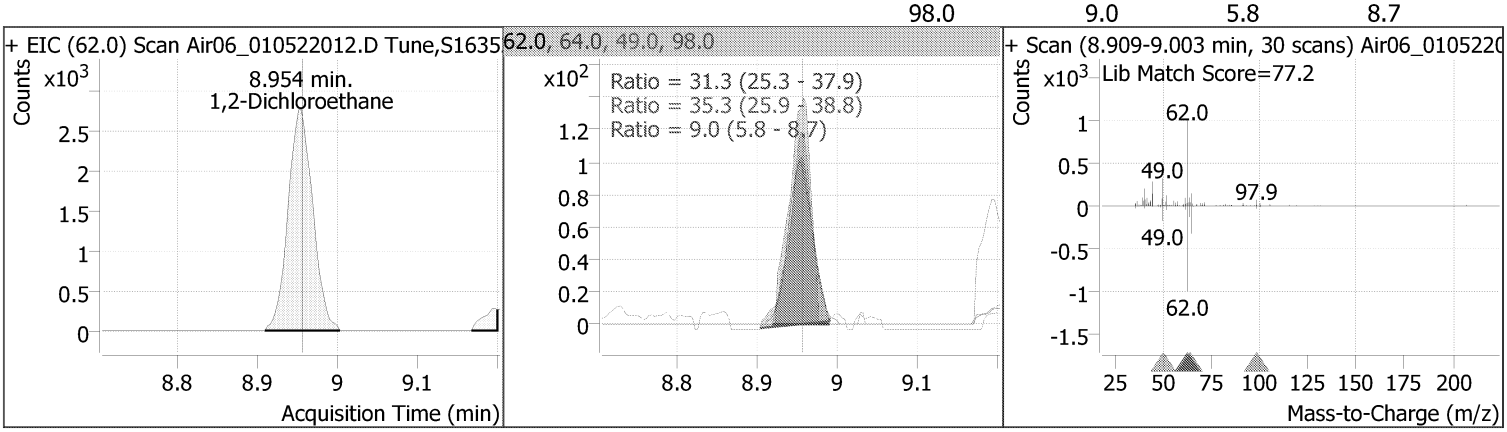
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0778 | 8.29 | 0.00 | 8448 | 85.0 | 69.3 | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



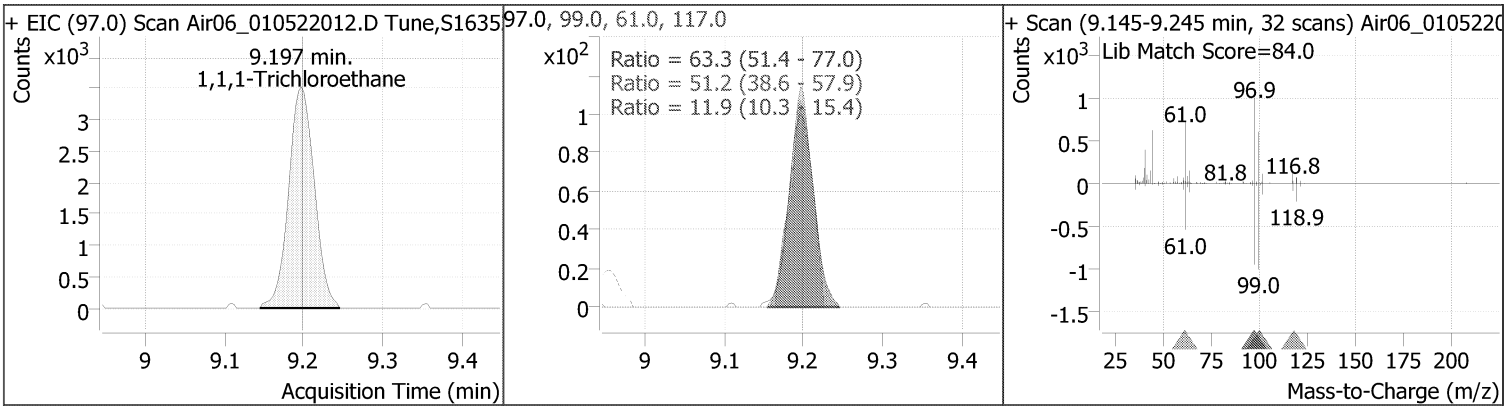

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.1127 | 8.70 | 0.05 | 2700 | 42.0 | 304.9 | 258.1 | 387.2 |
| | | | | | 41.0 | 185.0 | 141.4 | 212.1 |
| | | | | | 71.0 | 114.6 | 79.1 | 118.6 |



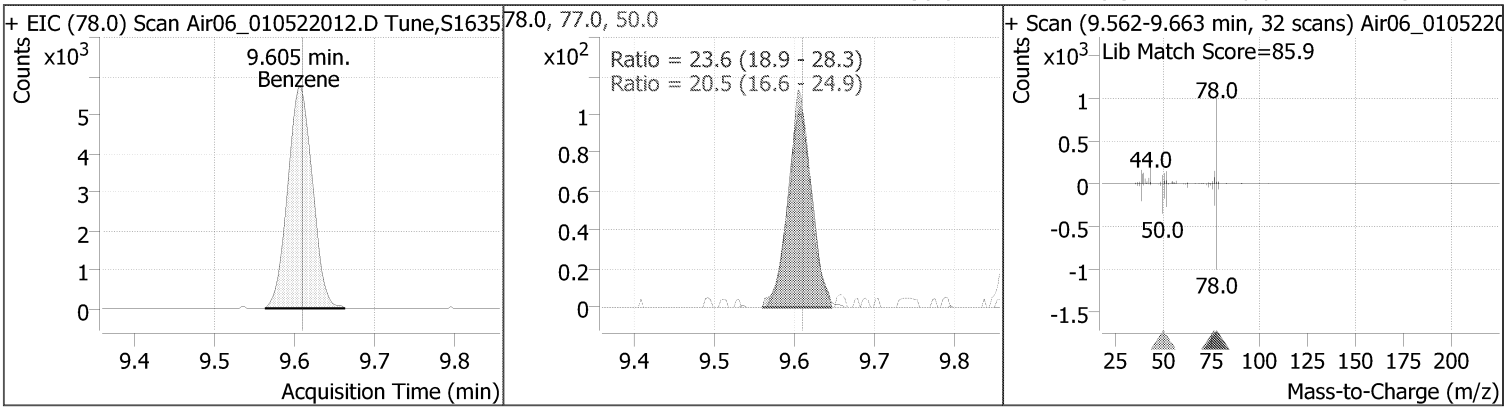

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0751 | 8.95 | 0.00 | 5974 | 49.0 | 35.3 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.3 | 25.3 | 37.9 |
| | | | | | 98.0 | 9.0 | 5.8 | 8.7 |



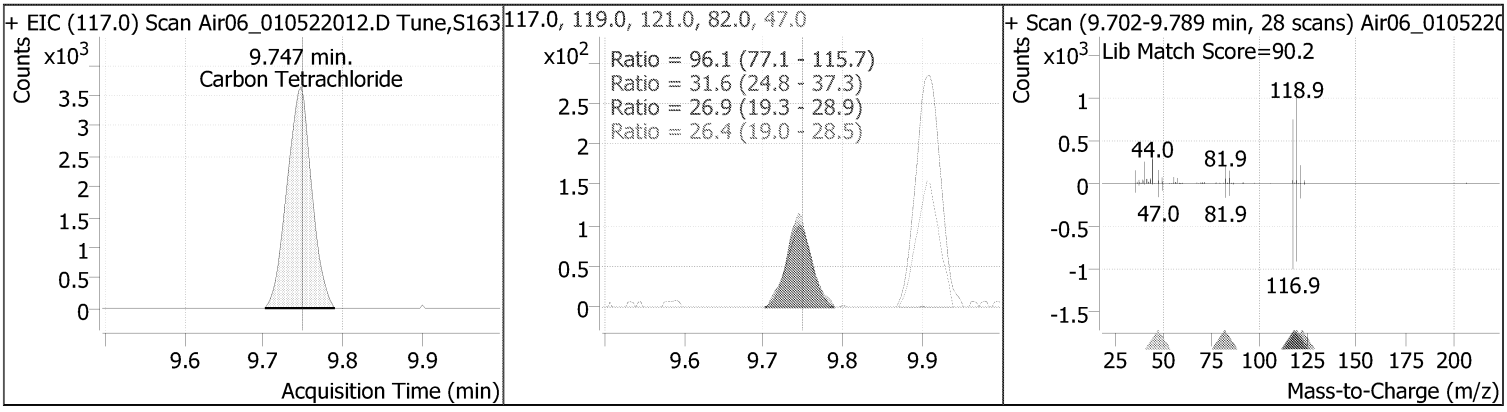
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.0754 | 9.20 | 0.00 | 7919 | 99.0 | 63.3 | 51.4 | 77.0 |
| | | | | | 61.0 | 51.2 | 38.6 | 57.9 |
| | | | | | 117.0 | 11.9 | 10.3 | 15.4 |



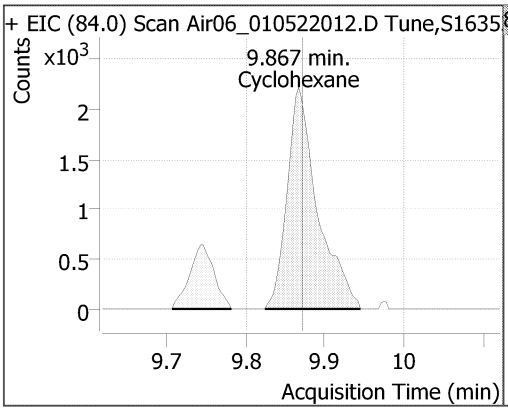

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0795 | 9.60 | 0.00 | 12442 | 77.0 | 23.6 | 18.9 | 28.3 |
| | | | | | 50.0 | 20.5 | 16.6 | 24.9 |

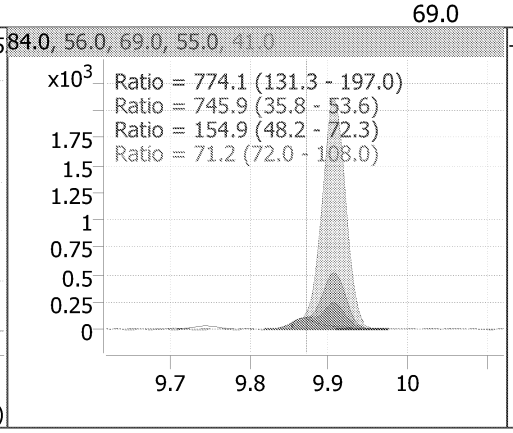


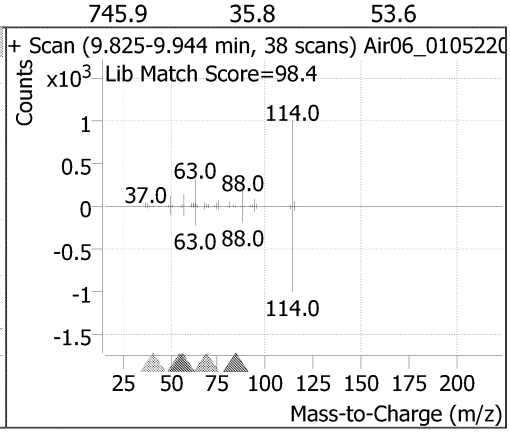

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.0699 | 9.75 | 0.00 | 7835 | 119.0 | 96.1 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.6 | 24.8 | 37.3 |
| | | | | | 82.0 | 26.9 | 19.3 | 28.9 |
| | | | | | 47.0 | 26.4 | 19.0 | 28.5 |



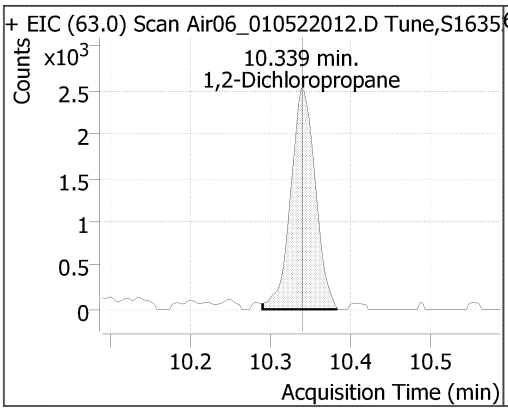
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0907 | 9.87 | 0.00 | 5930 | 56.0 | 774.1 | 131.3 | 197.0 |
| | | | | | 41.0 | 71.2 | 72.0 | 108.0 |
| | | | | | 55.0 | 154.9 | 48.2 | 72.3 |
| | | | | | 69.0 | 745.9 | 35.8 | 53.6 |

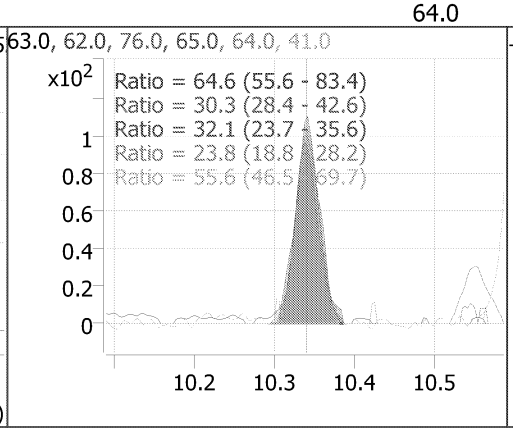


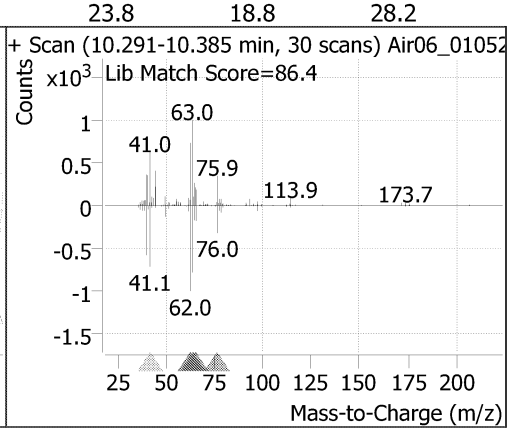



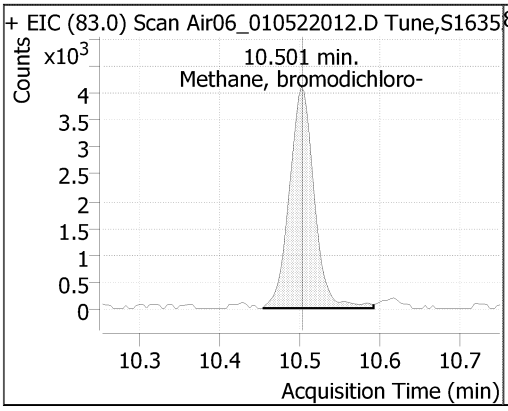

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0796 | 10.34 | 0.00 | 5457 | 62.0 | 64.6 | 55.6 | 83.4 |
| | | | | | 41.0 | 55.6 | 46.5 | 69.7 |
| | | | | | 76.0 | 30.3 | 28.4 | 42.6 |
| | | | | | 65.0 | 32.1 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.8 | 18.8 | 28.2 |

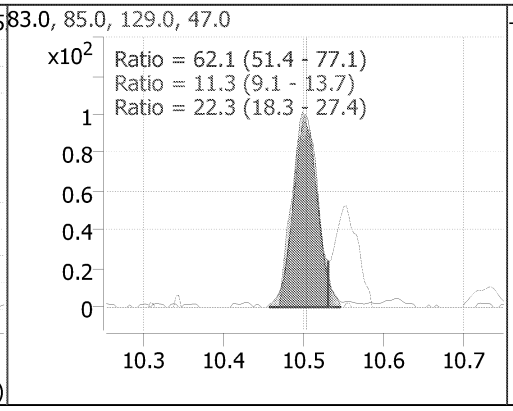


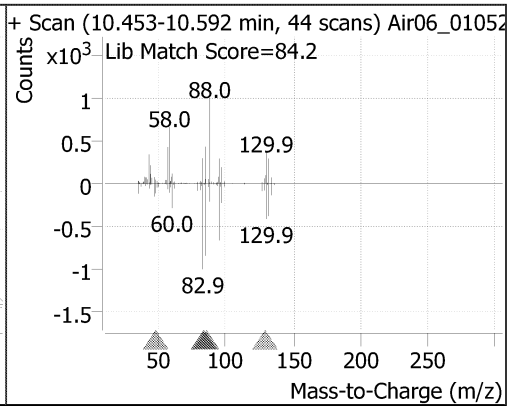



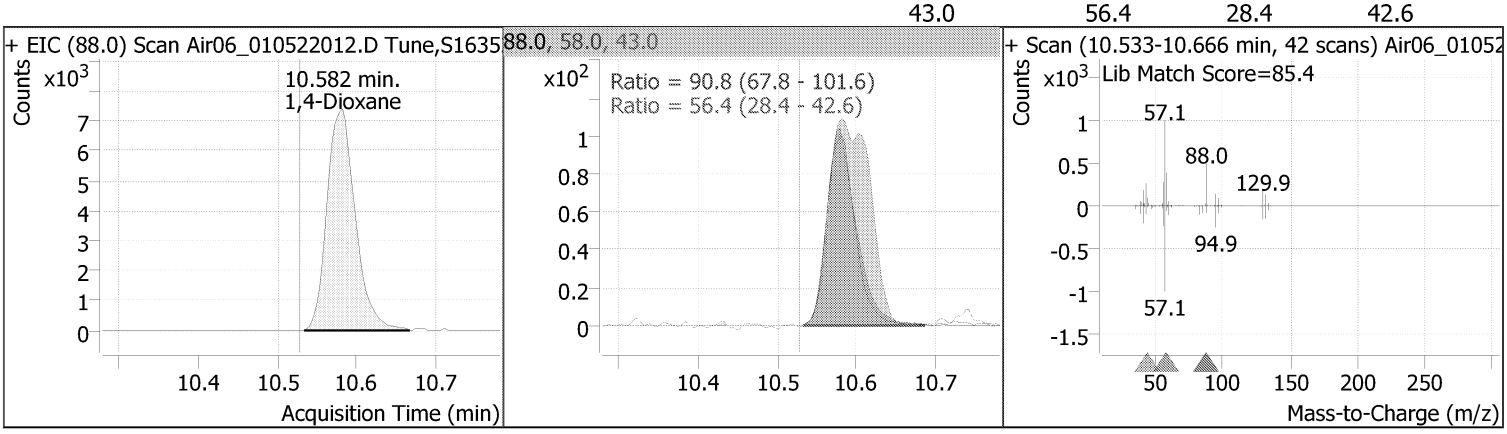

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0803 | 10.50 | 0.00 | 8975 | 85.0 | 62.1 | 51.4 | 77.1 |
| | | | | | 47.0 | 22.3 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.3 | 9.1 | 13.7 |



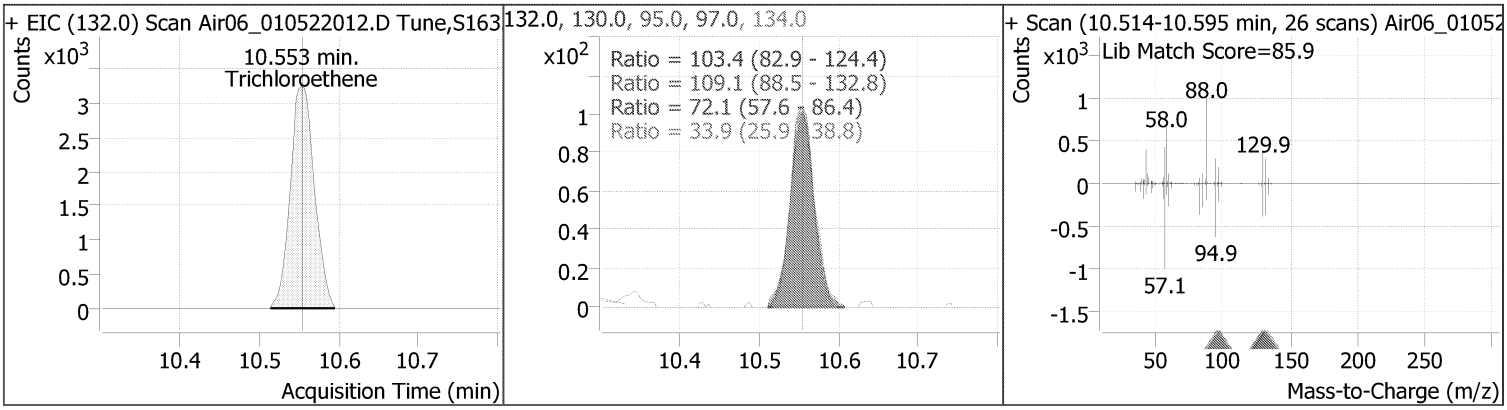



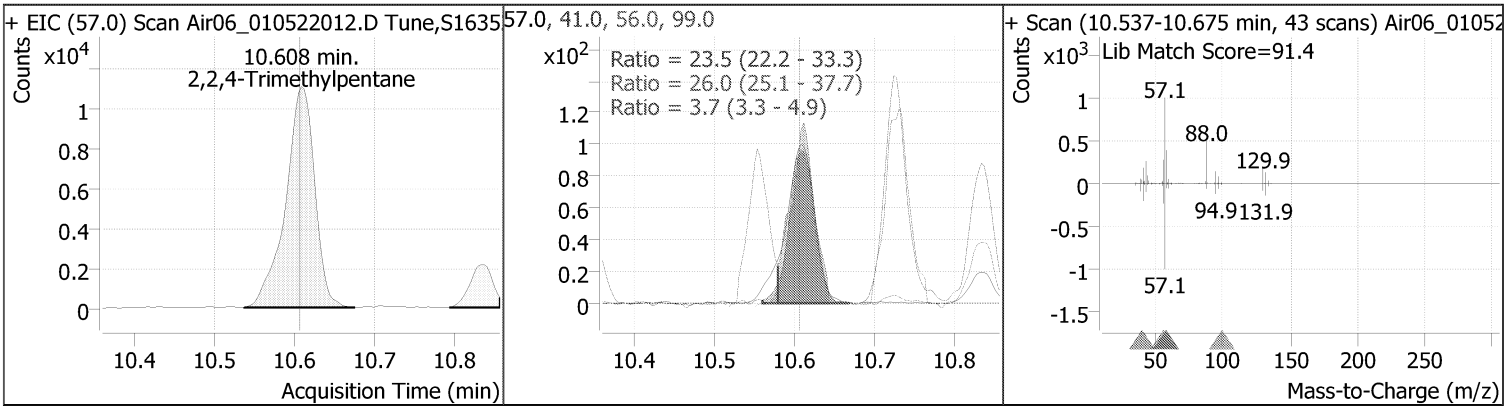
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.5127 | 10.58 | 0.05 | 18334 | 58.0 | 90.8 | 67.8 | 101.6 |
| | | | | | 43.0 | 56.4 | 28.4 | 42.6 |



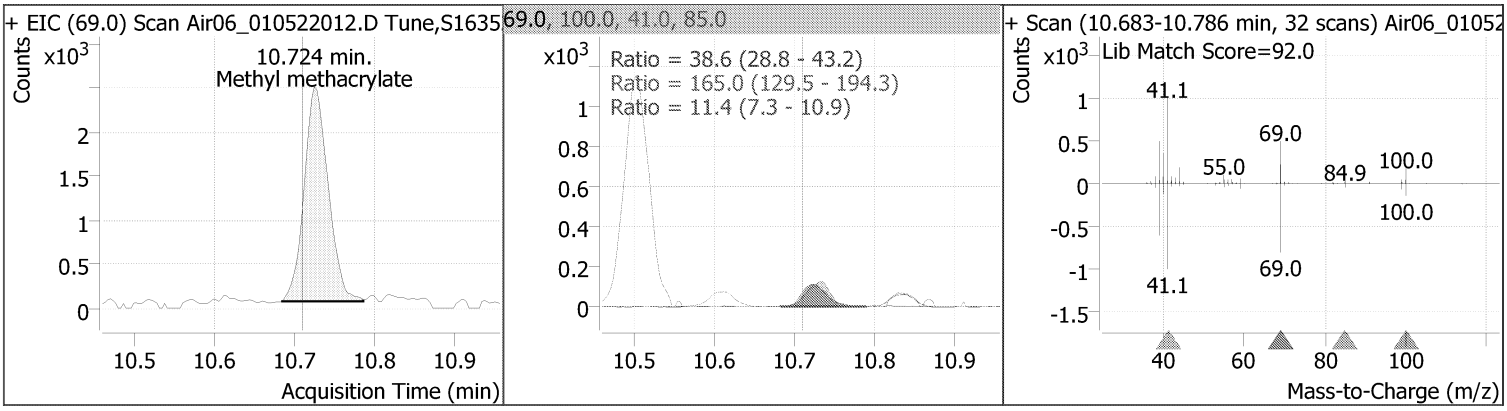

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0980 | 10.55 | 0.00 | 6832 | 95.0 | 109.1 | 88.5 | 132.8 |
| | | | | | 130.0 | 103.4 | 82.9 | 124.4 |
| | | | | | 97.0 | 72.1 | 57.6 | 86.4 |
| | | | | | 134.0 | 33.9 | 25.9 | 38.8 |



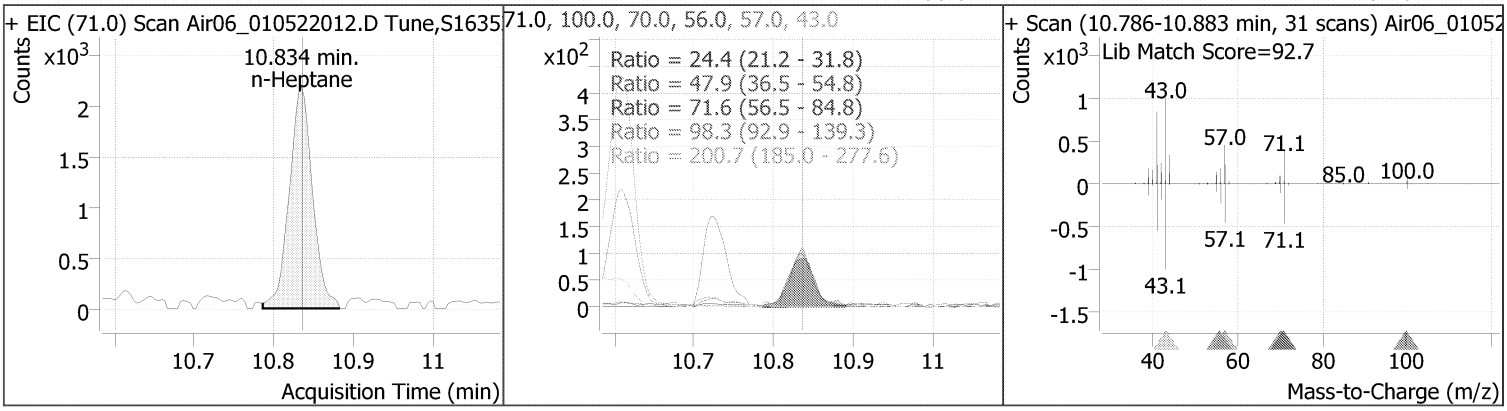

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0898 | 10.61 | 0.00 | 28013 | 56.0 | 26.0 | 25.1 | 37.7 |
| | | | | | 41.0 | 23.5 | 22.2 | 33.3 |
| | | | | | 99.0 | 3.7 | 3.3 | 4.9 |



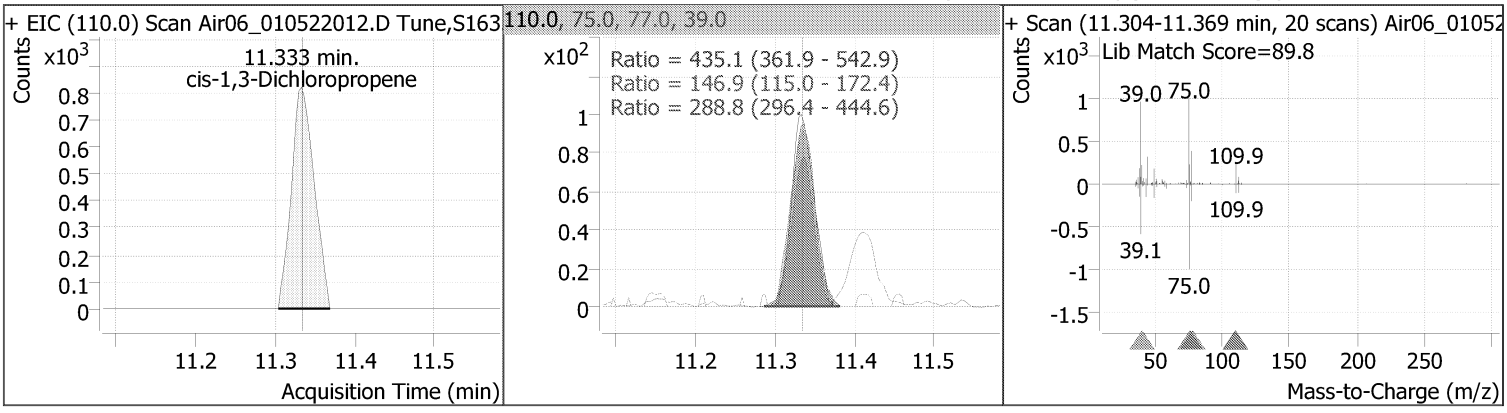
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.0882 | 10.72 | 0.01 | 5130 | 41.0 | 165.0 | 129.5 | 194.3 |
| | | | | | 100.0 | 38.6 | 28.8 | 43.2 |
| | | | | | 85.0 | 11.4 | 7.3 | 10.9 |



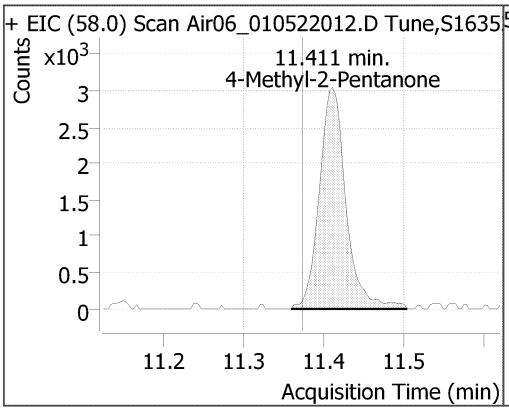

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.0827 | 10.83 | 0.00 | 4455 | 43.0 | 200.7 | 185.0 | 277.6 |
| | | | | | 57.0 | 98.3 | 92.9 | 139.3 |
| | | | | | 56.0 | 71.6 | 56.5 | 84.8 |
| | | | | | 70.0 | 47.9 | 36.5 | 54.8 |
| | | | | | 100.0 | 24.4 | 21.2 | 31.8 |

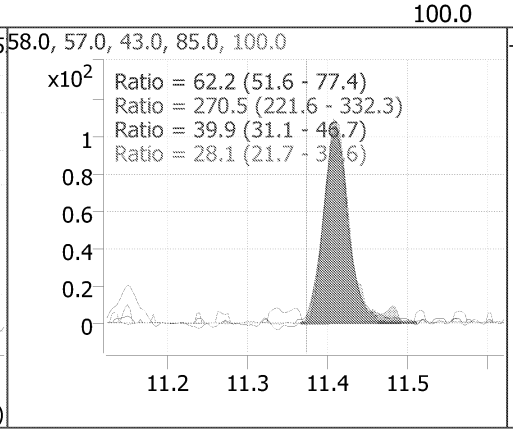


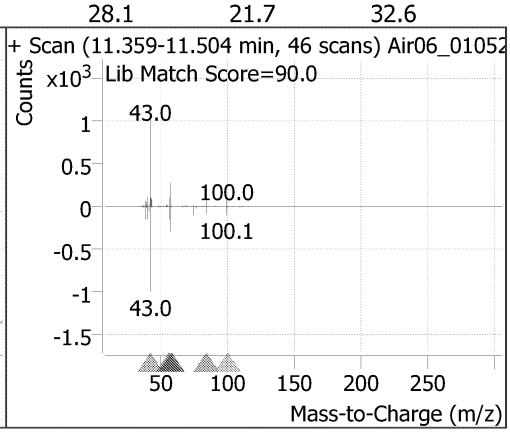

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 0.0751 | 11.33 | 0.00 | 1633 | 75.0 | 435.1 | 361.9 | 542.9 |
| | | | | | 39.0 | 288.8 | 296.4 | 444.6 |
| | | | | | 77.0 | 146.9 | 115.0 | 172.4 |



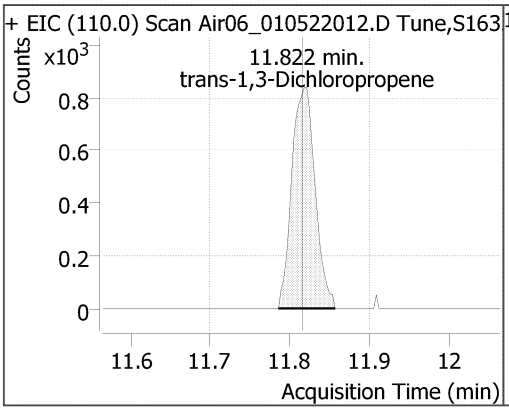
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.1180 | 11.41 | 0.04 | 7090 | 43.0 | 270.5 | 221.6 | 332.3 |
| | | | | | 57.0 | 62.2 | 51.6 | 77.4 |
| | | | | | 85.0 | 39.9 | 31.1 | 46.7 |
| | | | | | 100.0 | 28.1 | 21.7 | 32.6 |

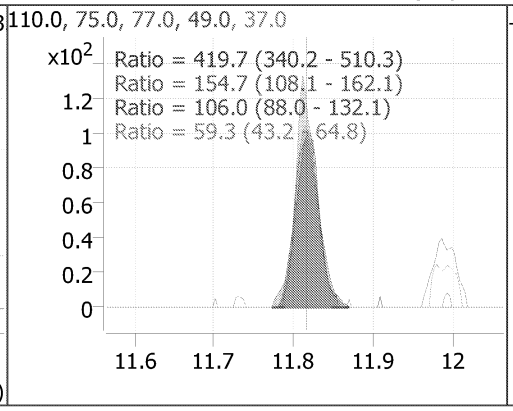


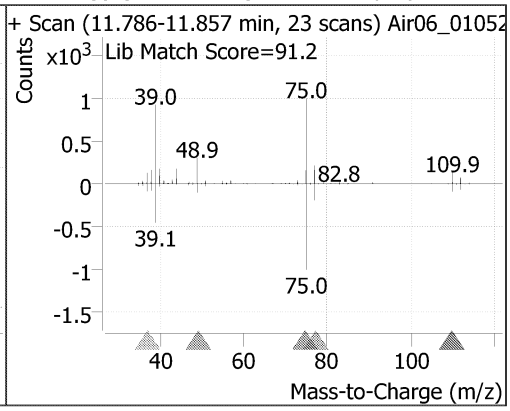



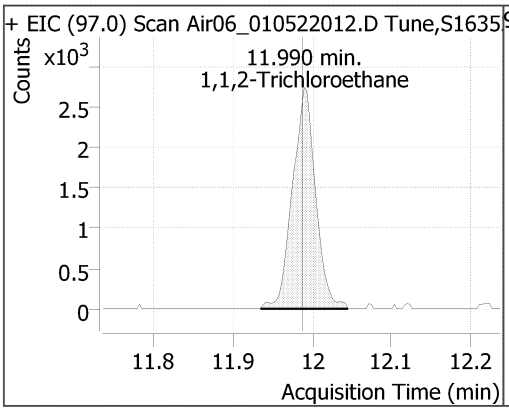

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.0766 | 11.82 | 0.00 | 1708 | 75.0 | 419.7 | 340.2 | 510.3 |
| | | | | | 77.0 | 154.7 | 108.1 | 162.1 |
| | | | | | 49.0 | 106.0 | 88.0 | 132.1 |
| | | | | | 37.0 | 59.3 | 43.2 | 64.8 |

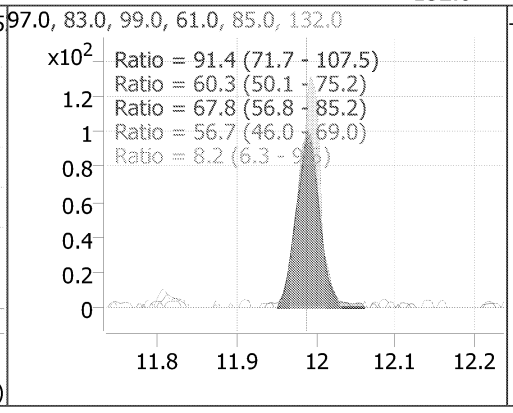


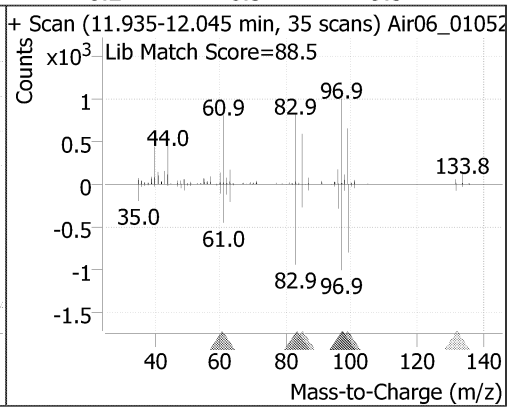



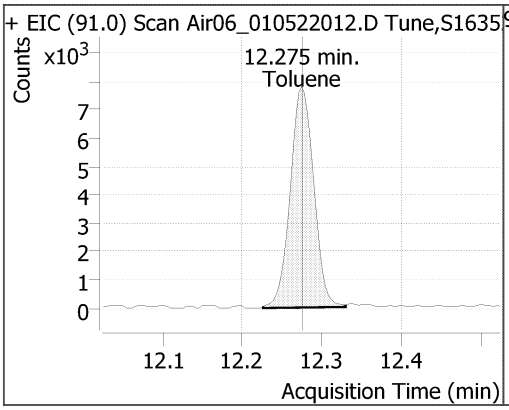

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.0848 | 11.99 | 0.00 | 5535 | 83.0 | 91.4 | 71.7 | 107.5 |
| | | | | | 61.0 | 67.8 | 56.8 | 85.2 |
| | | | | | 99.0 | 60.3 | 50.1 | 75.2 |
| | | | | | 85.0 | 56.7 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.2 | 6.3 | 9.5 |

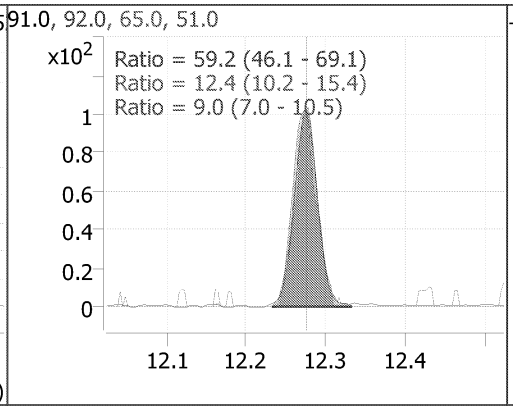


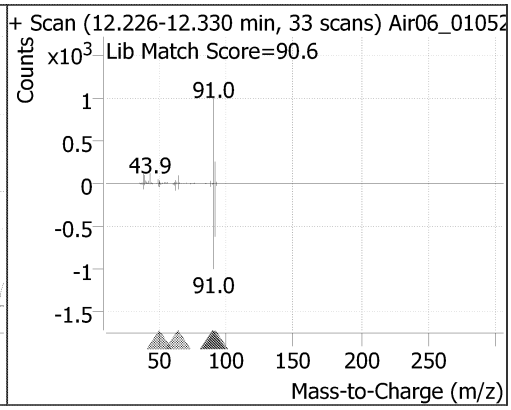



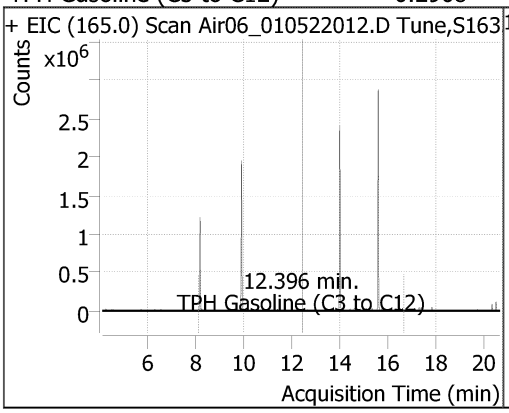
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0809 | 12.27 | 0.00 | 16038 | 92.0 | 59.2 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.4 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.0 | 7.0 | 10.5 |

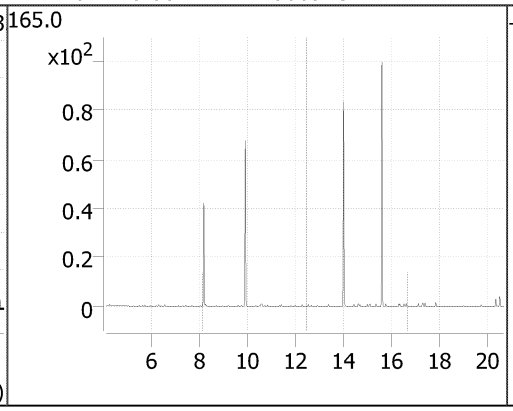


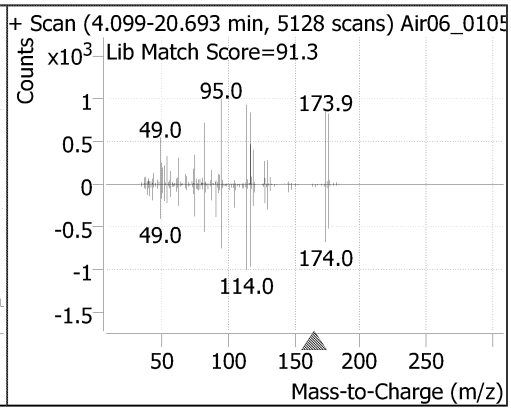



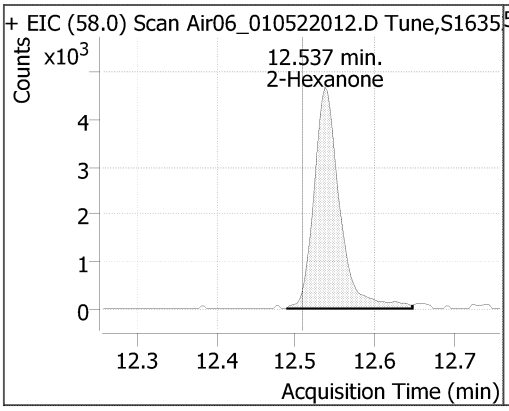

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 0.2908 | 12.40 | 0.00 | 4060915 | | | | |

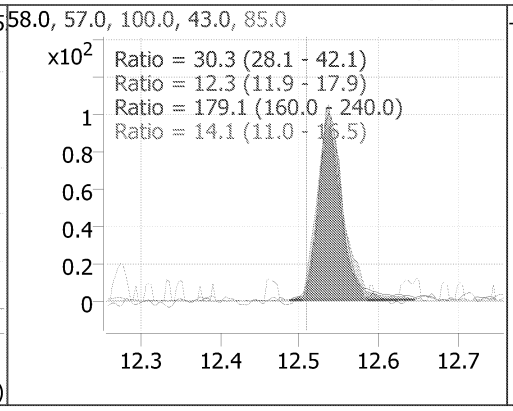


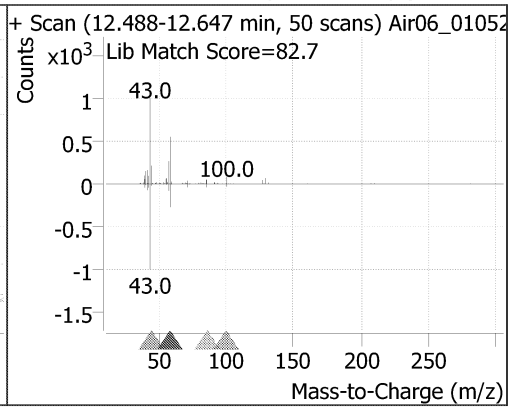



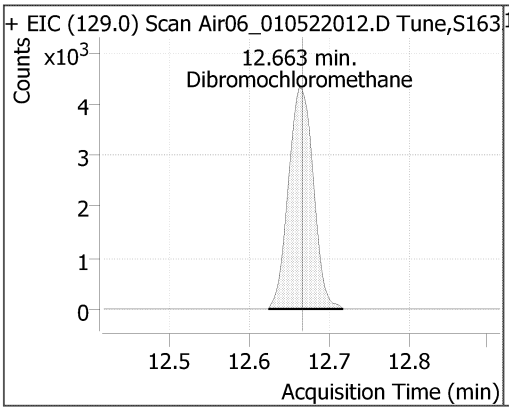

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.1361 | 12.54 | 0.03 | 10507 | 43.0 | 179.1 | 160.0 | 240.0 |
| | | | | | 57.0 | 30.3 | 28.1 | 42.1 |
| | | | | | 100.0 | 12.3 | 11.9 | 17.9 |
| | | | | | 85.0 | 14.1 | 11.0 | 16.5 |

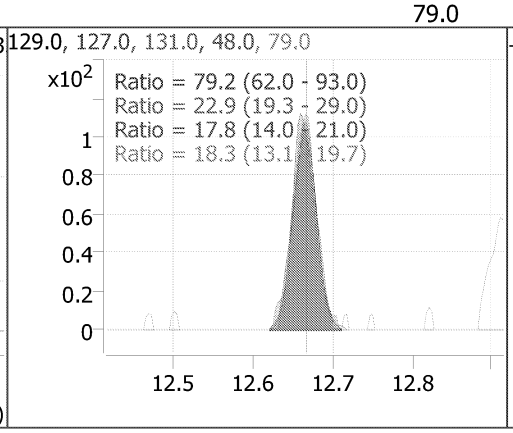


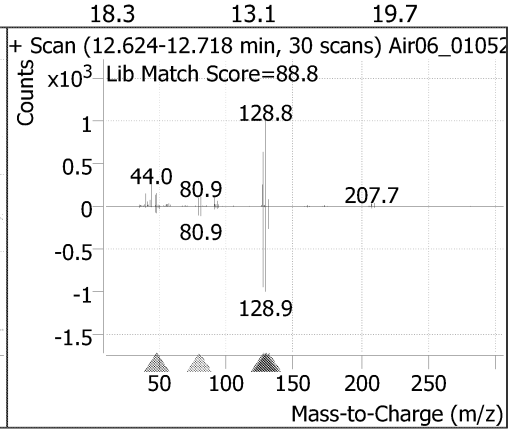



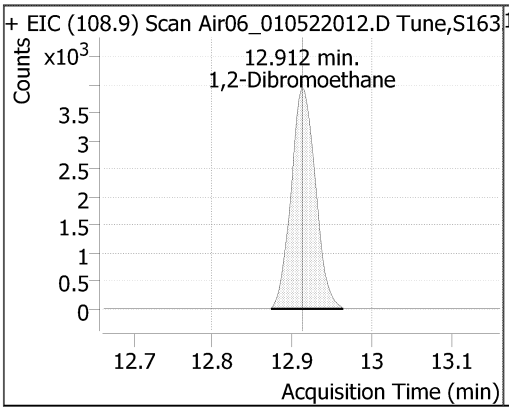
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.0799 | 12.66 | -0.01 | 9467 | 127.0 | 79.2 | 62.0 | 93.0 |
| | | | | | 131.0 | 22.9 | 19.3 | 29.0 |
| | | | | | 48.0 | 17.8 | 14.0 | 21.0 |
| | | | | | 79.0 | 18.3 | 13.1 | 19.7 |

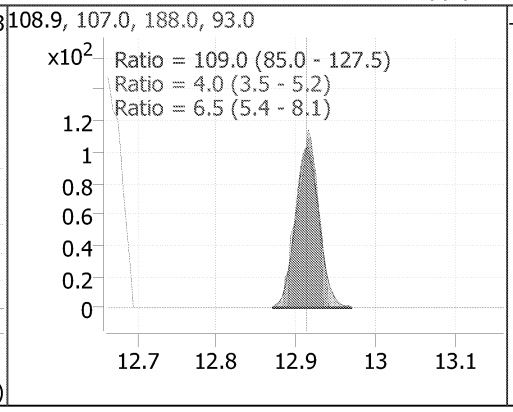


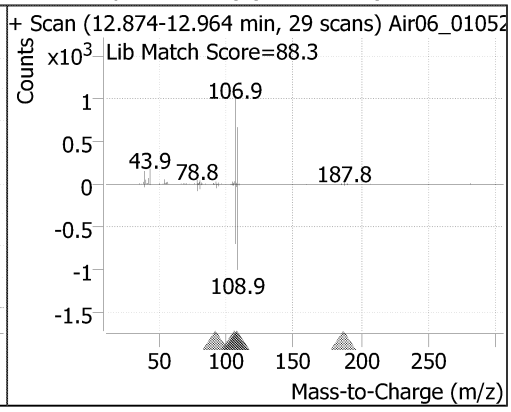



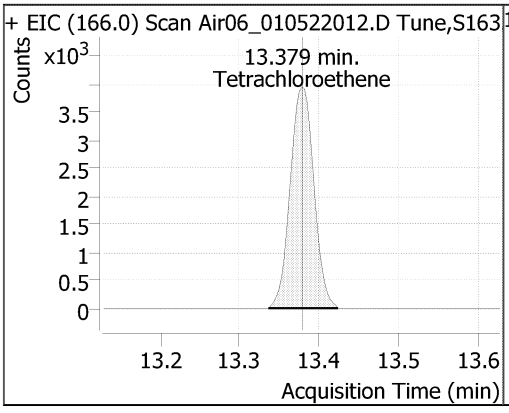

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.0839 | 12.91 | 0.00 | 8424 | 107.0 | 109.0 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.5 | 5.4 | 8.1 |
| | | | | | 188.0 | 4.0 | 3.5 | 5.2 |

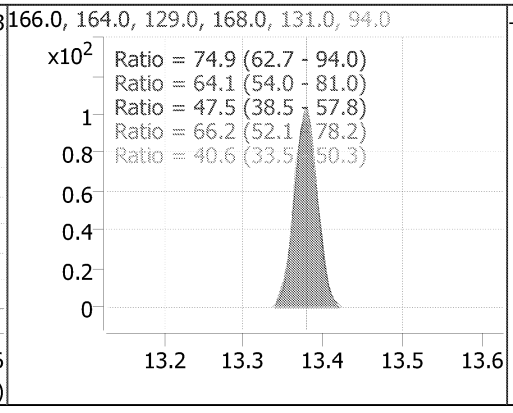


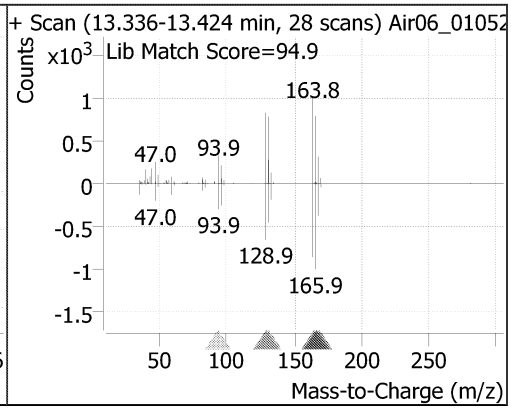



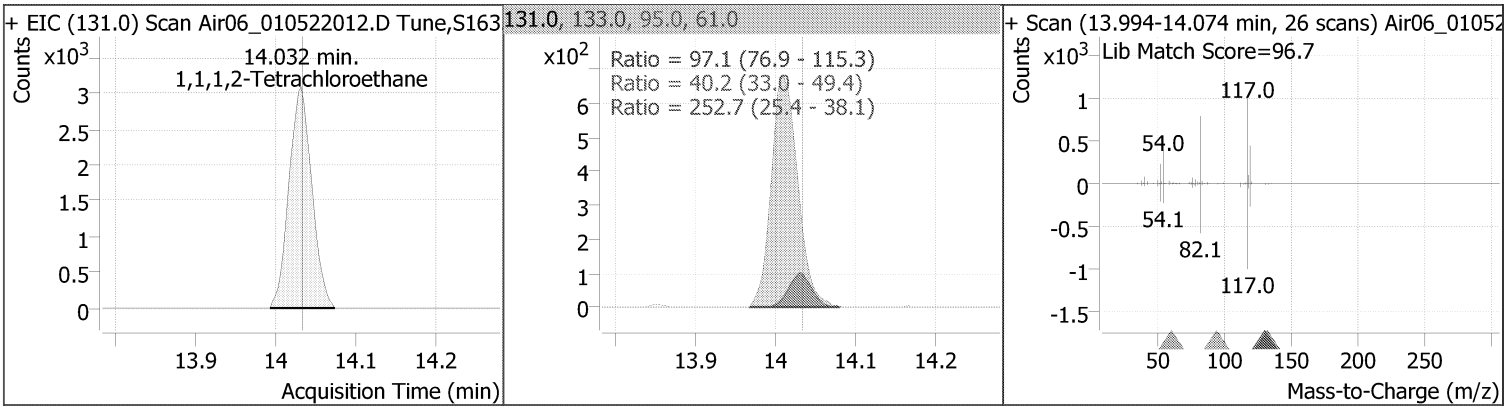

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0802 | 13.38 | 0.00 | 8218 | 164.0 | 74.9 | 62.7 | 94.0 |
| | | | | | 129.0 | 64.1 | 54.0 | 81.0 |
| | | | | | 131.0 | 66.2 | 52.1 | 78.2 |
| | | | | | 168.0 | 47.5 | 38.5 | 57.8 |
| | | | | | 94.0 | 40.6 | 33.5 | 50.3 |



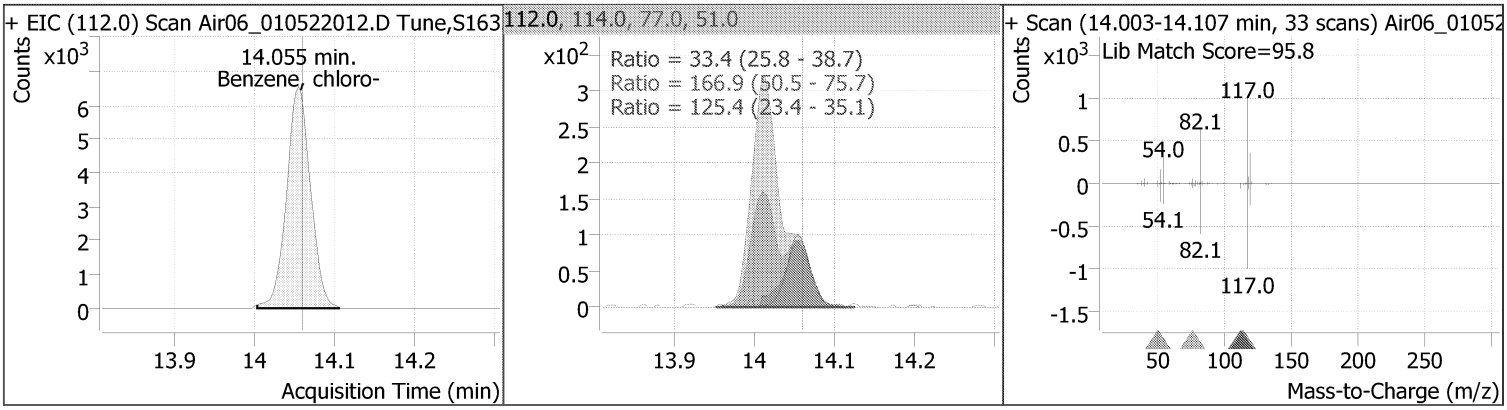



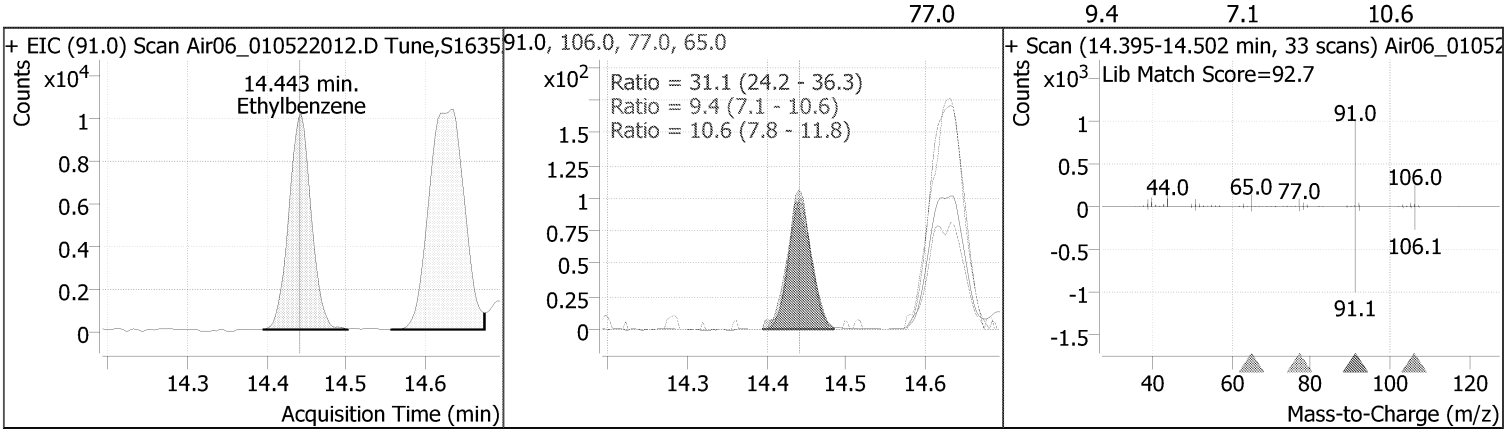
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0823 | 14.03 | 0.00 | 6156 | 133.0 | 97.1 | 76.9 | 115.3 |
| | | | | | 95.0 | 40.2 | 33.0 | 49.4 |
| | | | | | 61.0 | 252.7 | 25.4 | 38.1 |



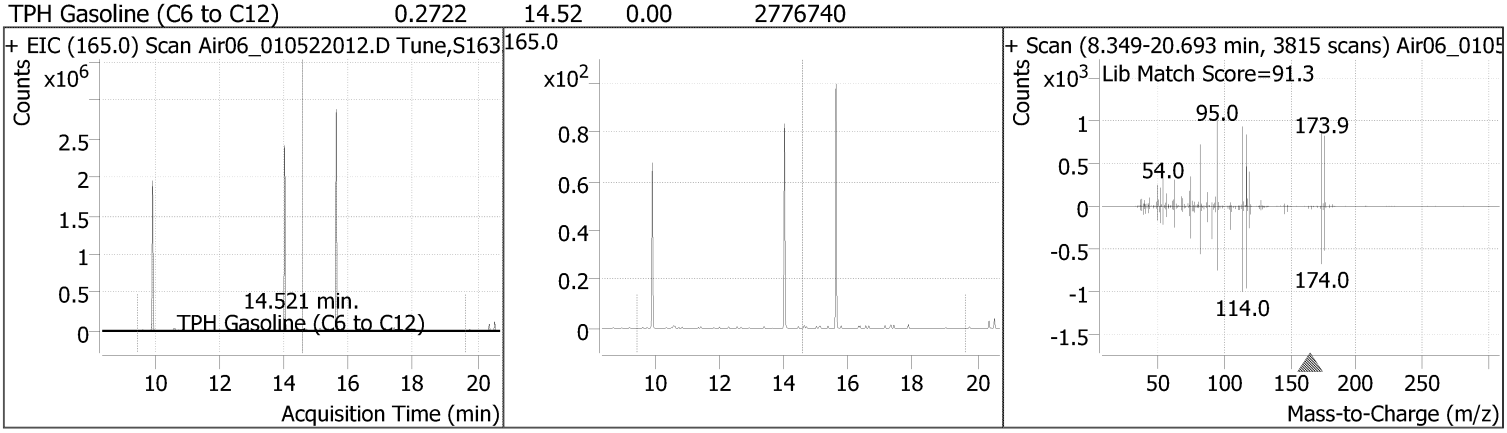

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0920 | 14.06 | -0.01 | 13663 | 77.0 | 166.9 | 50.5 | 75.7 |
| | | | | | 114.0 | 33.4 | 25.8 | 38.7 |
| | | | | | 51.0 | 125.4 | 23.4 | 35.1 |



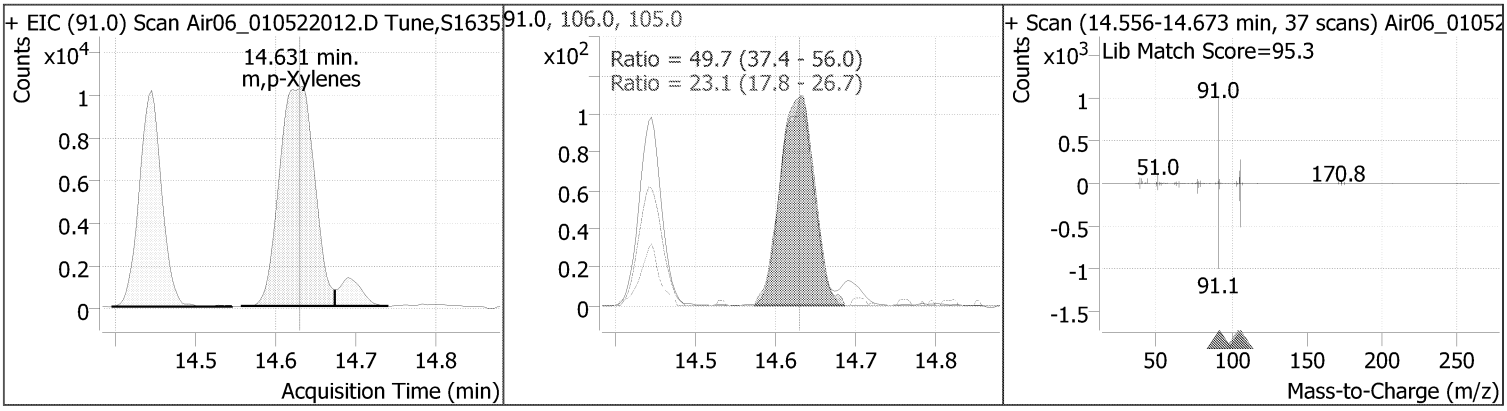

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0837 | 14.44 | 0.00 | 19749 | 106.0 | 31.1 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.6 | 7.8 | 11.8 |
| | | | | | 77.0 | 9.4 | 7.1 | 10.6 |



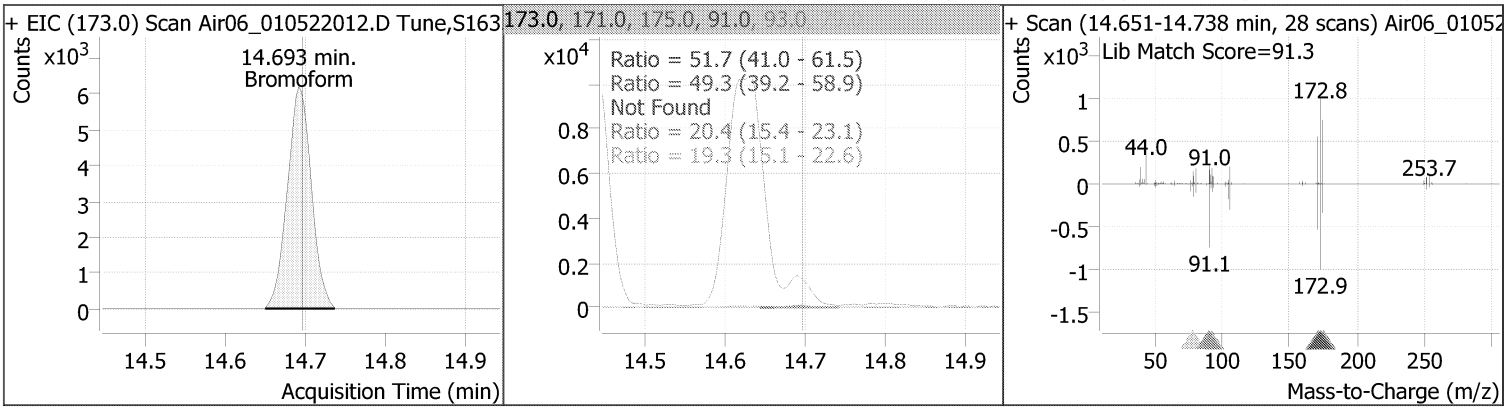
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 0.2722 | 14.52 | 0.00 | 2776740 | | | | |



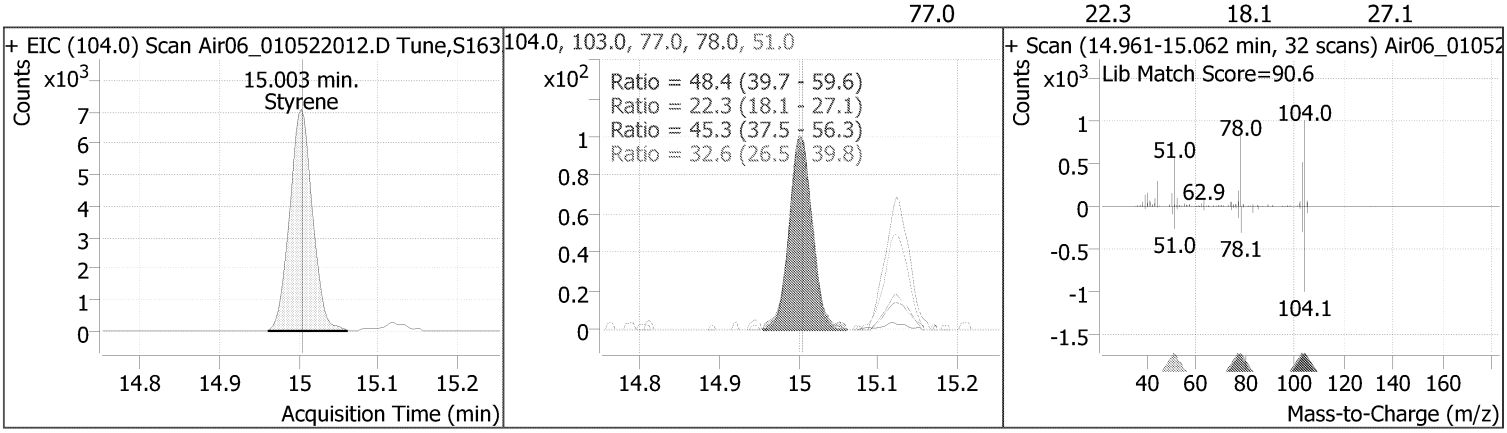

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.1663 | 14.63 | 0.00 | 31545 | 106.0 | 49.7 | 37.4 | 56.0 |
| | | | | | 105.0 | 23.1 | 17.8 | 26.7 |



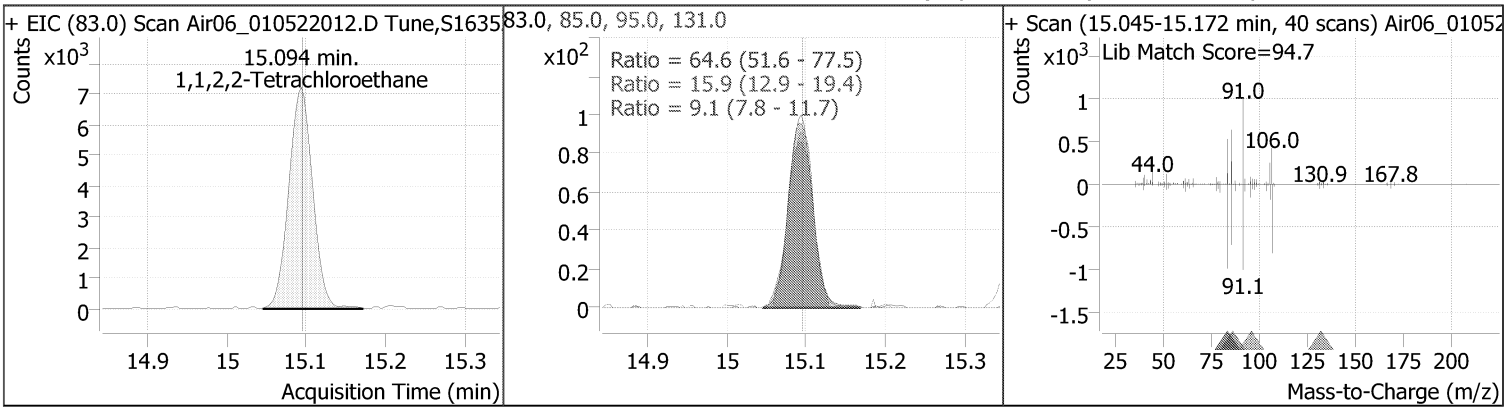

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.0997 | 14.69 | -0.01 | 12961 | 171.0 | 51.7 | 41.0 | 61.5 |
| | | | | | 175.0 | 49.3 | 39.2 | 58.9 |
| | | | | | 93.0 | 20.4 | 15.4 | 23.1 |
| | | | | | 91.0 | | 15.2 | 22.8 |
| | | | | | 79.0 | 19.3 | 15.1 | 22.6 |



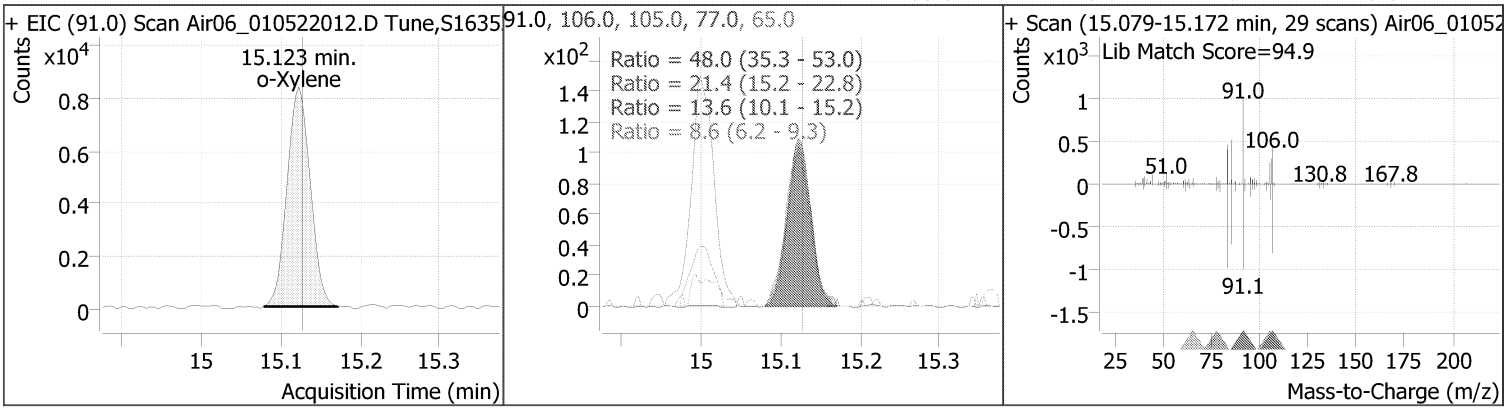
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.0937 | 15.00 | 0.00 | 14080 | 103.0 | 48.4 | 39.7 | 59.6 |
| | | | | | 78.0 | 45.3 | 37.5 | 56.3 |
| | | | | | 51.0 | 32.6 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.3 | 18.1 | 27.1 |



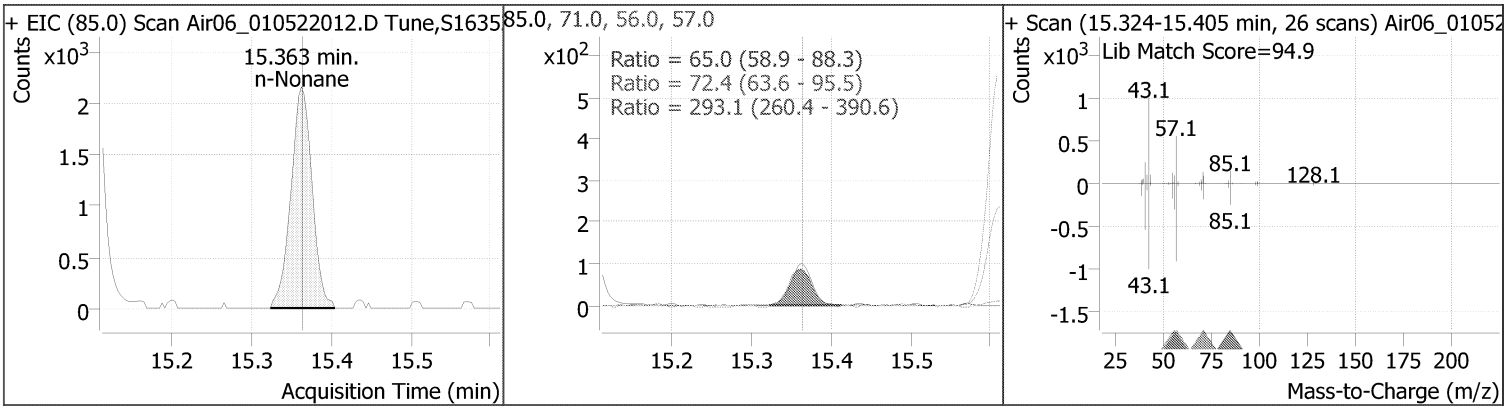

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.1054 | 15.09 | 0.00 | 15106 | 85.0 | 64.6 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.9 | 12.9 | 19.4 |
| | | | | | 131.0 | 9.1 | 7.8 | 11.7 |



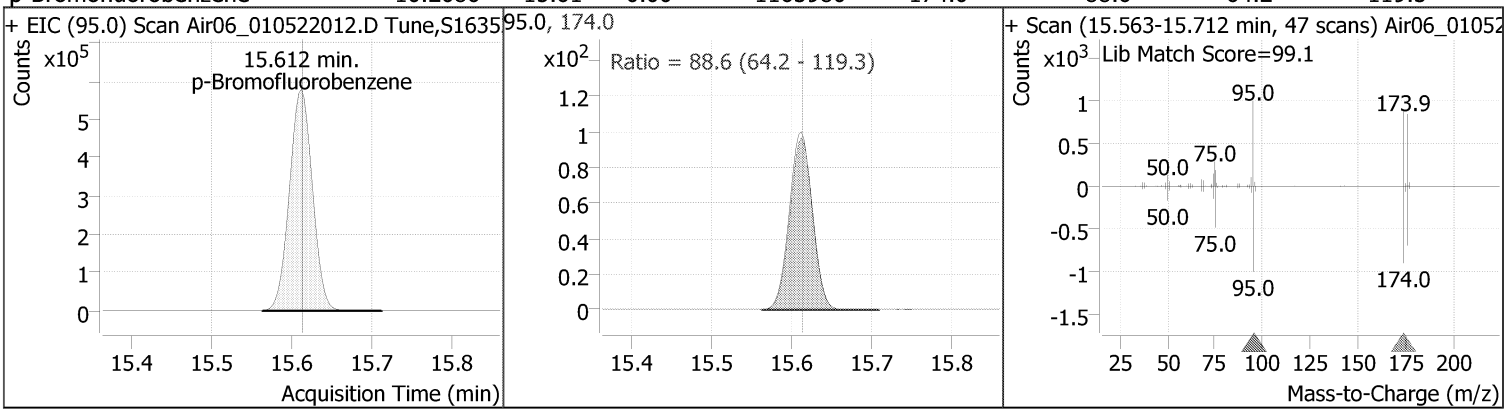

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.0867 | 15.12 | -0.01 | 16921 | 106.0 | 48.0 | 35.3 | 53.0 |
| | | | | | 105.0 | 21.4 | 15.2 | 22.8 |
| | | | | | 77.0 | 13.6 | 10.1 | 15.2 |
| | | | | | 65.0 | 8.6 | 6.2 | 9.3 |



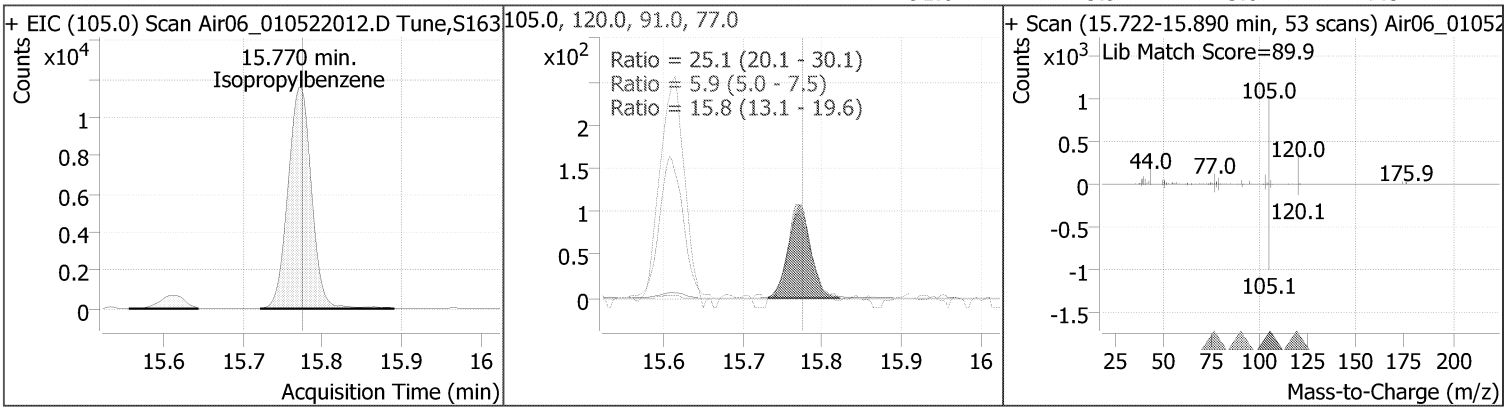
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.0891 | 15.36 | 0.00 | 4013 | 57.0 | 293.1 | 260.4 | 390.6 |
| | | | | | 56.0 | 72.4 | 63.6 | 95.5 |
| | | | | | 71.0 | 65.0 | 58.9 | 88.3 |



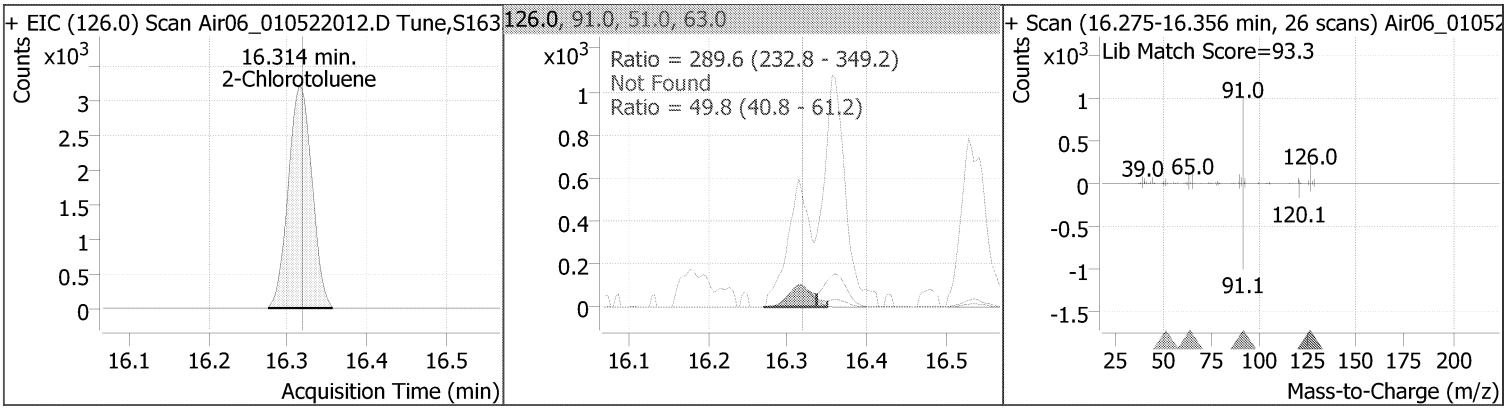

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.2086 | 15.61 | 0.00 | 1163980 | 174.0 | 88.6 | 64.2 | 119.3 |



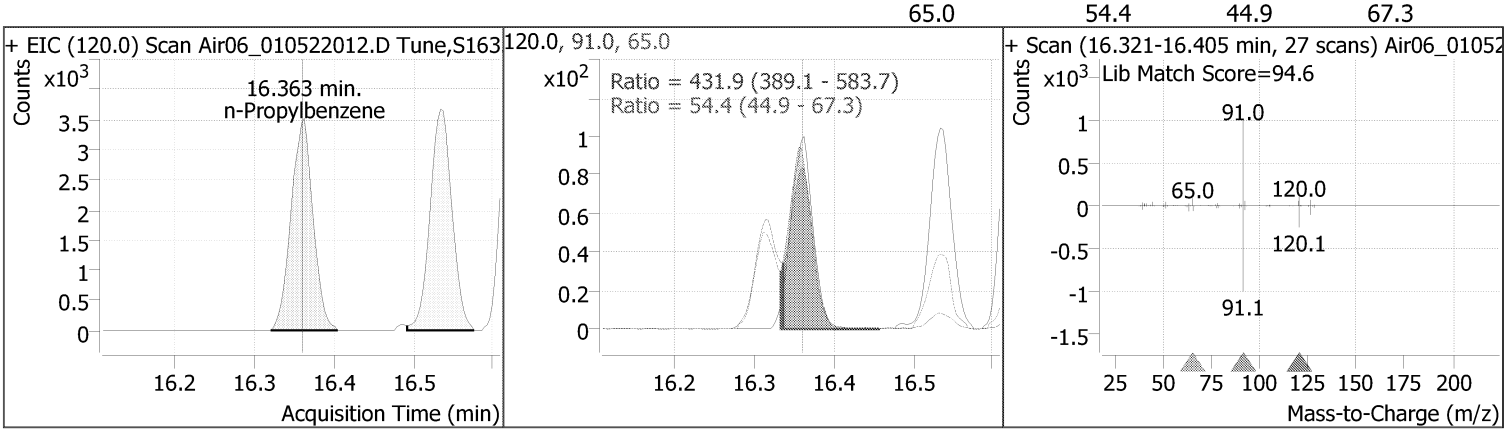

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0892 | 15.77 | -0.01 | 23854 | 120.0 | 25.1 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.8 | 13.1 | 19.6 |
| | | | | | 91.0 | 5.9 | 5.0 | 7.5 |



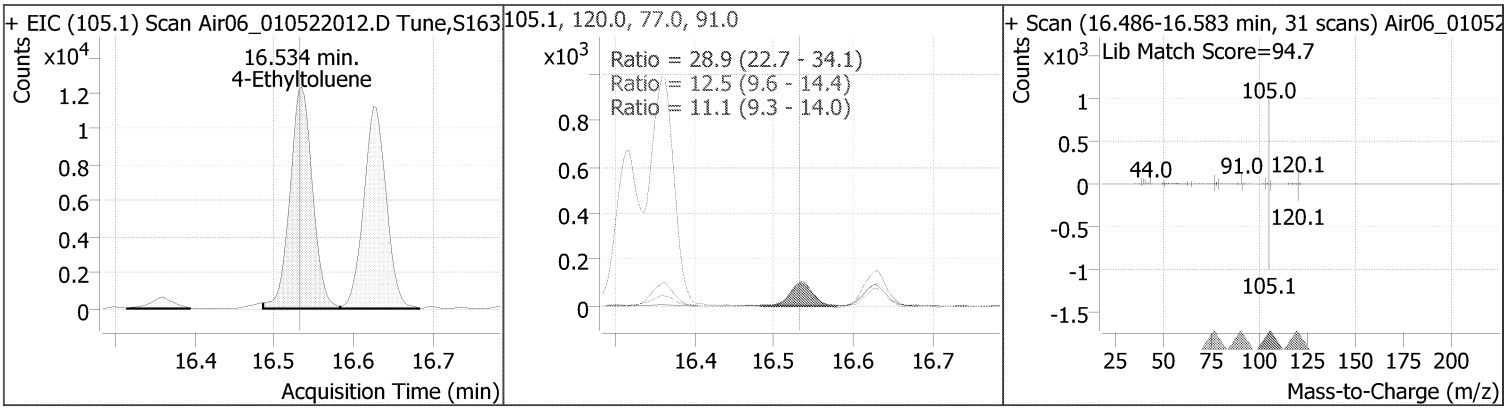
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.0976 | 16.31 | -0.01 | 6646 | 91.0 | 289.6 | 232.8 | 349.2 |
| | | | | | 63.0 | 49.8 | 40.8 | 61.2 |
| | | | | | 51.0 | | 14.0 | 21.0 |



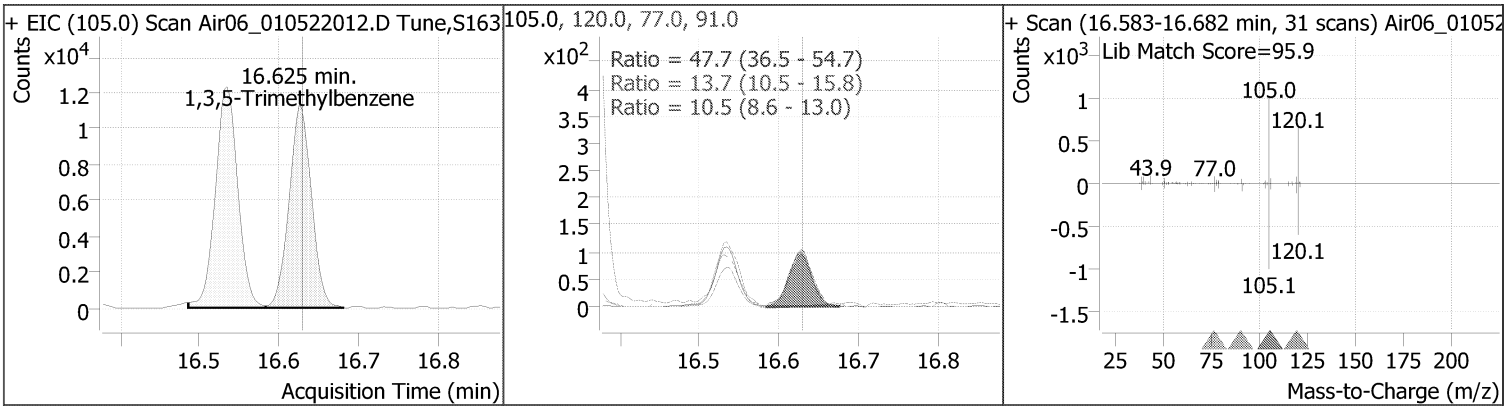

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.0902 | 16.36 | 0.00 | 6735 | 91.0 | 431.9 | 389.1 | 583.7 |
| | | | | | 65.0 | 54.4 | 44.9 | 67.3 |



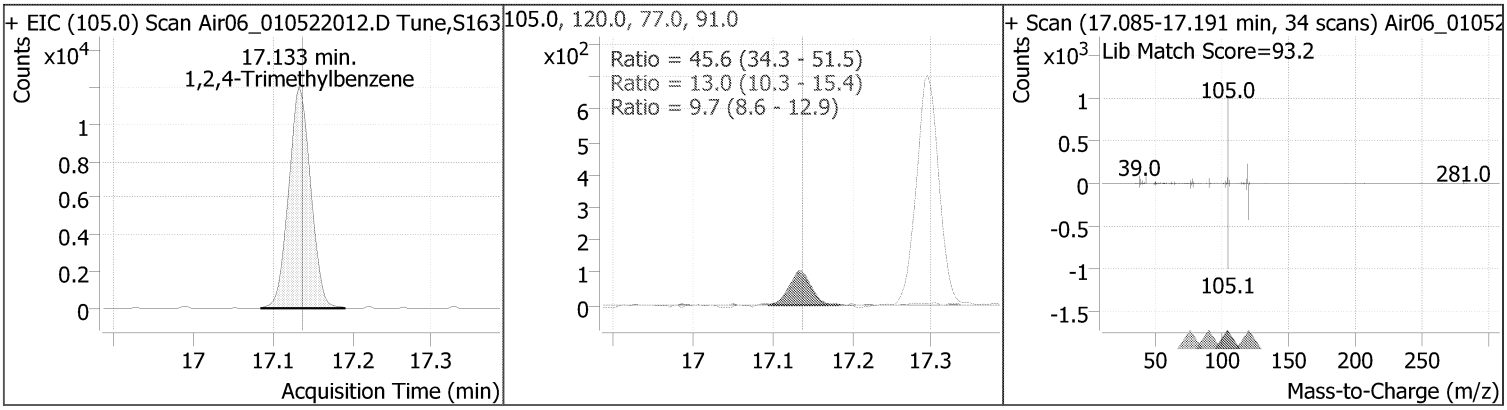

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0921 | 16.53 | 0.00 | 24366 | 120.0 | 28.9 | 22.7 | 34.1 |
| | | | | | 77.0 | 12.5 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.1 | 9.3 | 14.0 |



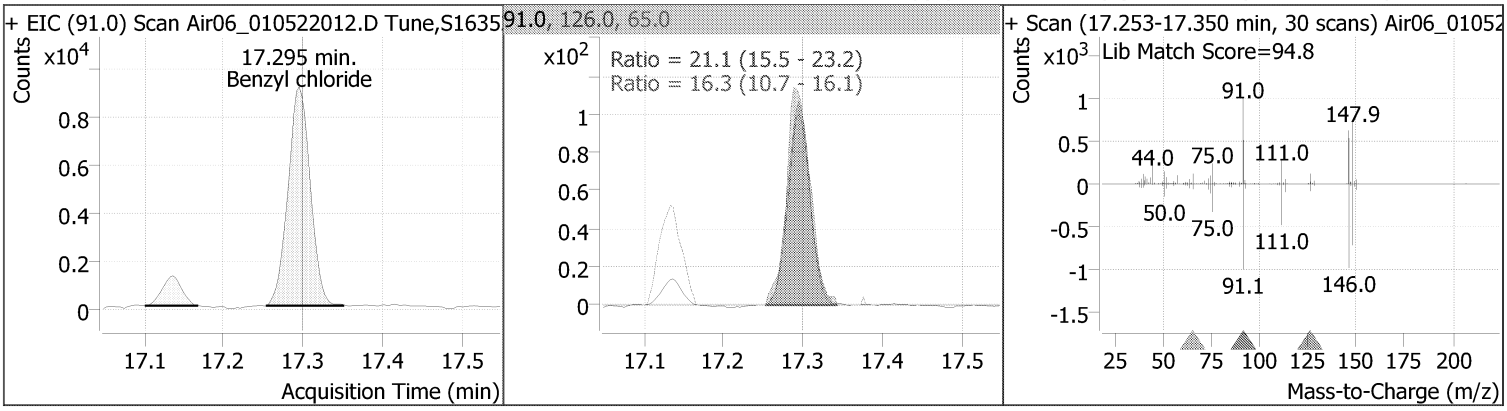
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.0963 | 16.62 | -0.01 | 22065 | 120.0 | 47.7 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.7 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.5 | 8.6 | 13.0 |



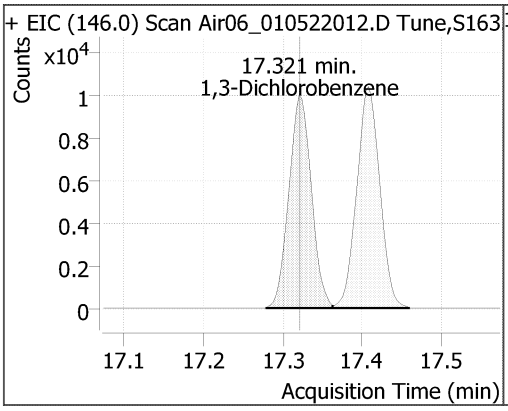

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.1019 | 17.13 | -0.01 | 23188 | 120.0 | 45.6 | 34.3 | 51.5 |
| | | | | | 77.0 | 13.0 | 10.3 | 15.4 |
| | | | | | 91.0 | 9.7 | 8.6 | 12.9 |

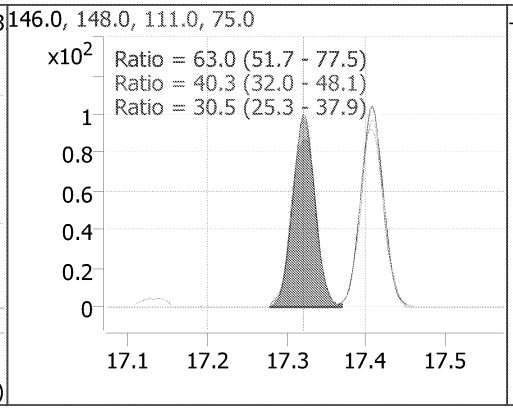


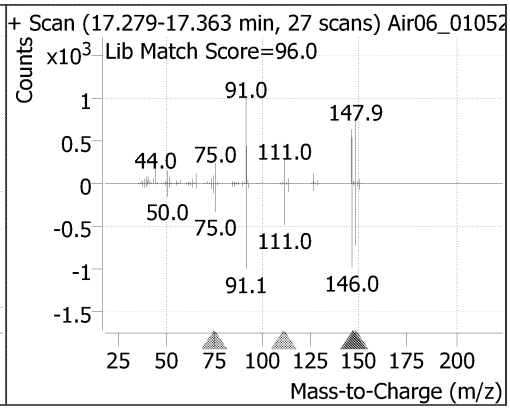

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.0888 | 17.29 | -0.01 | 17771 | 126.0 | 21.1 | 15.5 | 23.2 |
| | | | | | 65.0 | 16.3 | 10.7 | 16.1 |



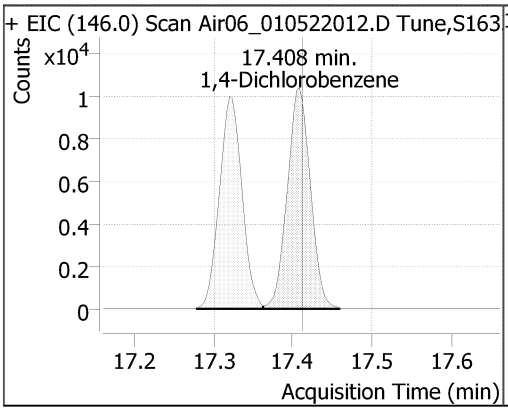
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.1259 | 17.32 | -0.01 | 19650 | 148.0 | 63.0 | 51.7 | 77.5 |
| | | | | | 111.0 | 40.3 | 32.0 | 48.1 |
| | | | | | 75.0 | 30.5 | 25.3 | 37.9 |

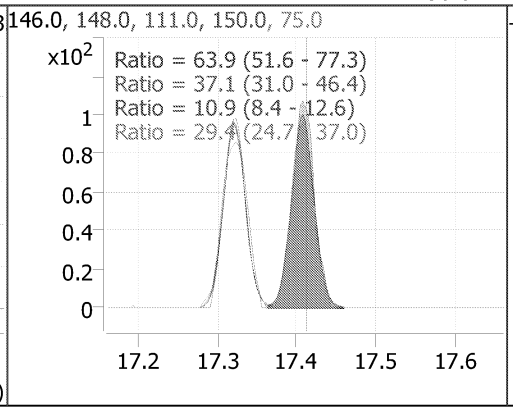


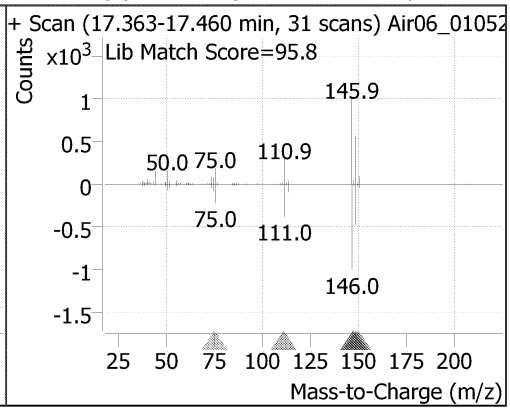



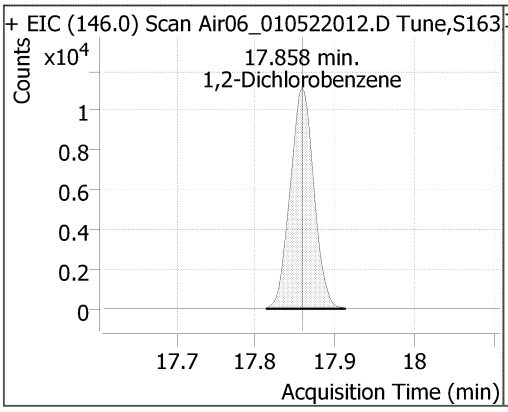

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.1329 | 17.41 | -0.01 | 20971 | 148.0 | 63.9 | 51.6 | 77.3 |
| | | | | | 111.0 | 37.1 | 31.0 | 46.4 |
| | | | | | 75.0 | 29.4 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.9 | 8.4 | 12.6 |

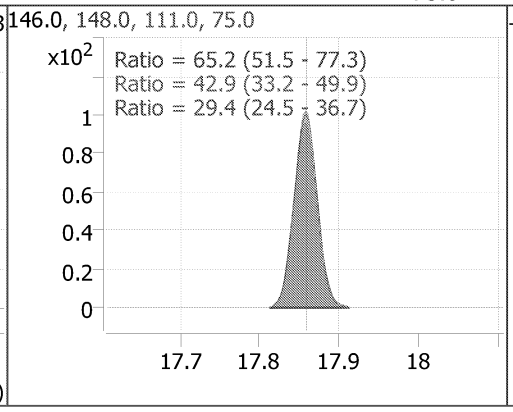


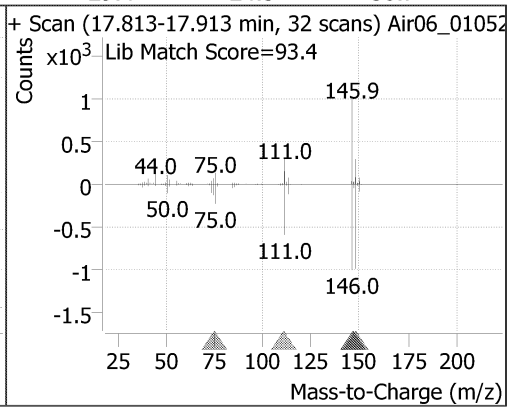



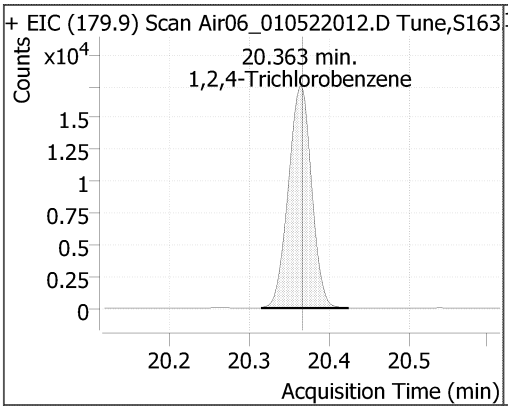

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.1518 | 17.86 | 0.00 | 23099 | 148.0 | 65.2 | 51.5 | 77.3 |
| | | | | | 111.0 | 42.9 | 33.2 | 49.9 |
| | | | | | 75.0 | 29.4 | 24.5 | 36.7 |

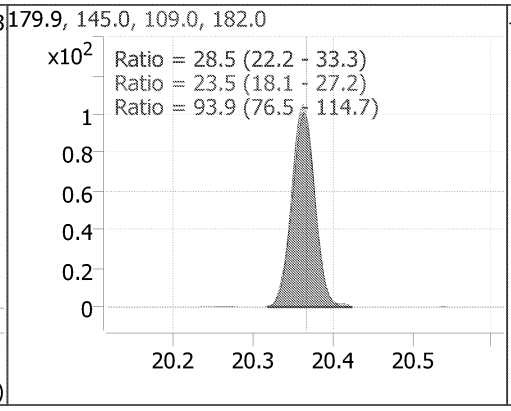


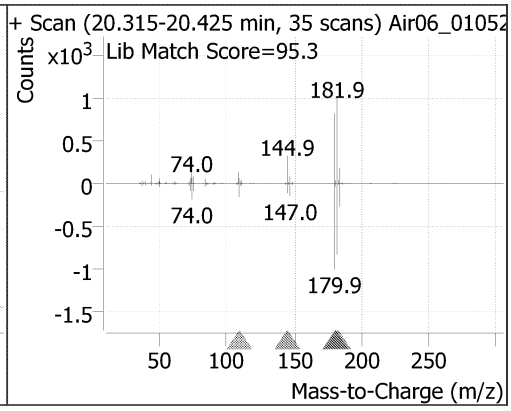



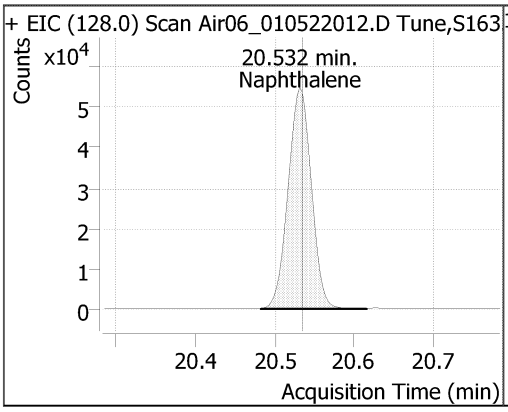
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.2858 | 20.36 | -0.01 | 35846 | 182.0 | 93.9 | 76.5 | 114.7 |
| | | | | | 145.0 | 28.5 | 22.2 | 33.3 |
| | | | | | 109.0 | 23.5 | 18.1 | 27.2 |

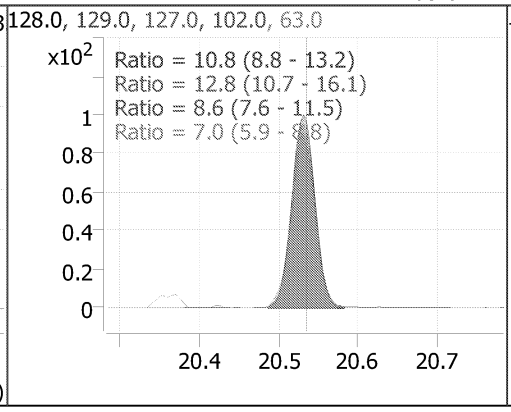


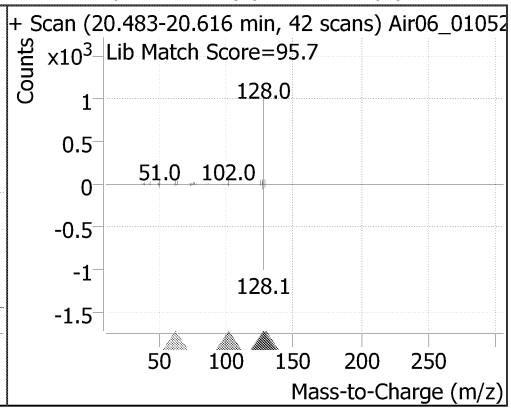



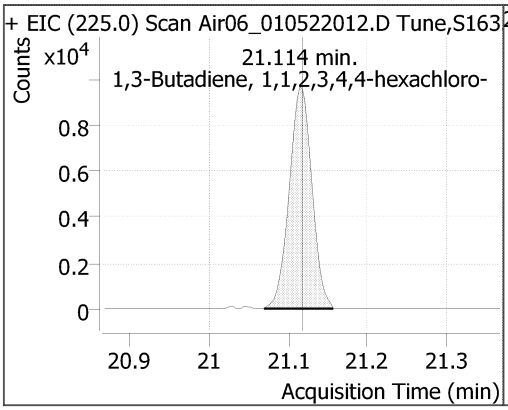

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.4340 | 20.53 | -0.01 | 112648 | 127.0 | 12.8 | 10.7 | 16.1 |
| | | | | | 129.0 | 10.8 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.6 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.0 | 5.9 | 8.8 |

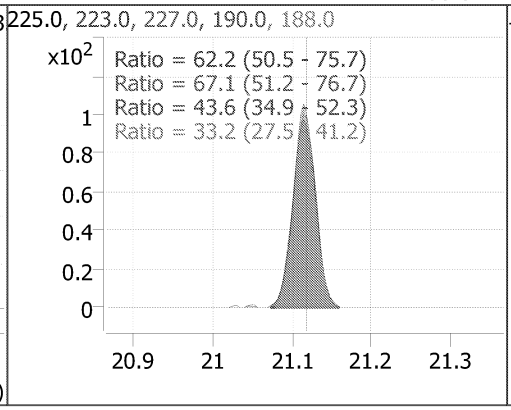


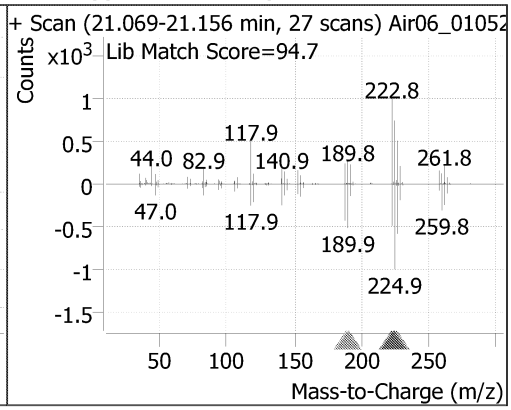




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.1429 | 21.11 | -0.01 | 19259 | 227.0 | 67.1 | 51.2 | 76.7 |
| | | | | | 223.0 | 62.2 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.6 | 34.9 | 52.3 |
| | | | | | 188.0 | 33.2 | 27.5 | 41.2 |

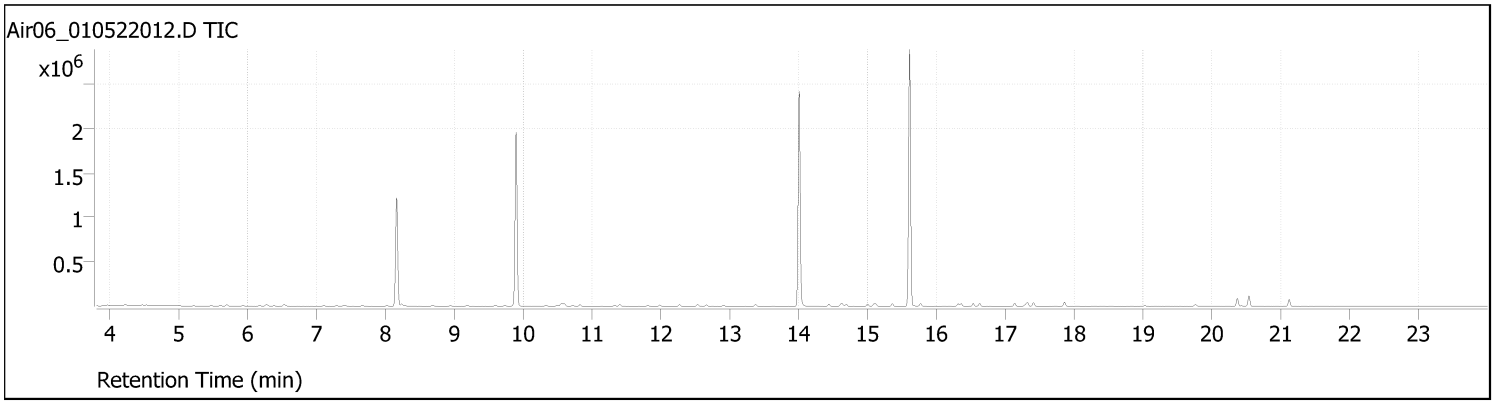


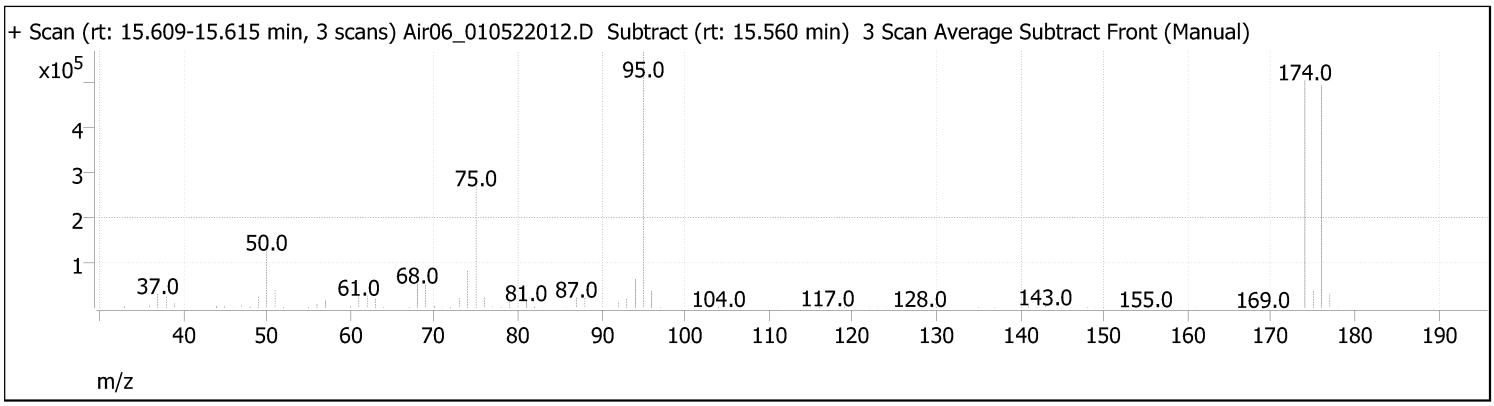



# Tune Evaluation Report

| | |
|---|---|
| Data Path: | D:\MassHunter\GCMS\1\data\2022\220105_ICAL\Air06_010522012.D |
| Acq on: | 1/5/2022 10:52:07 PM |
| Operator: | DJL/LJB |
| Sample: | Tune,S16352,5x |
| Inst Name: | Air-MS-06 |
| ALS Vial: | 8 |
| Method: | |




| Target Mass | Rel. To Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.4 | 127100 | Pass |
| 75 | 95 | 30 | 60 | 47.3 | 268792 | Pass |
| 95 | 95 | 100 | 100 | 100.0 | 568410 | Pass |
| 96 | 95 | 5 | 9 | 6.6 | 37320 | Pass |
| 173 | 174 | 0 | 2 | 0.0 | 0 | Pass |
| 174 | 95 | 50 | 100 | 88.6 | 503368 | Pass |
| 175 | 174 | 5 | 9 | 7.8 | 39122 | Pass |
| 176 | 174 | 95 | 101 | 97.8 | 492450 | Pass |
| 177 | 176 | 5 | 9 | 6.4 | 31616 | Pass |

ENTHALPY BFB TUNE FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-06 Run Name : TUNE IDF : 1.0
Seqnum : 372030848001 File : air06_012122001 Time : 21-JAN-2022 10:08

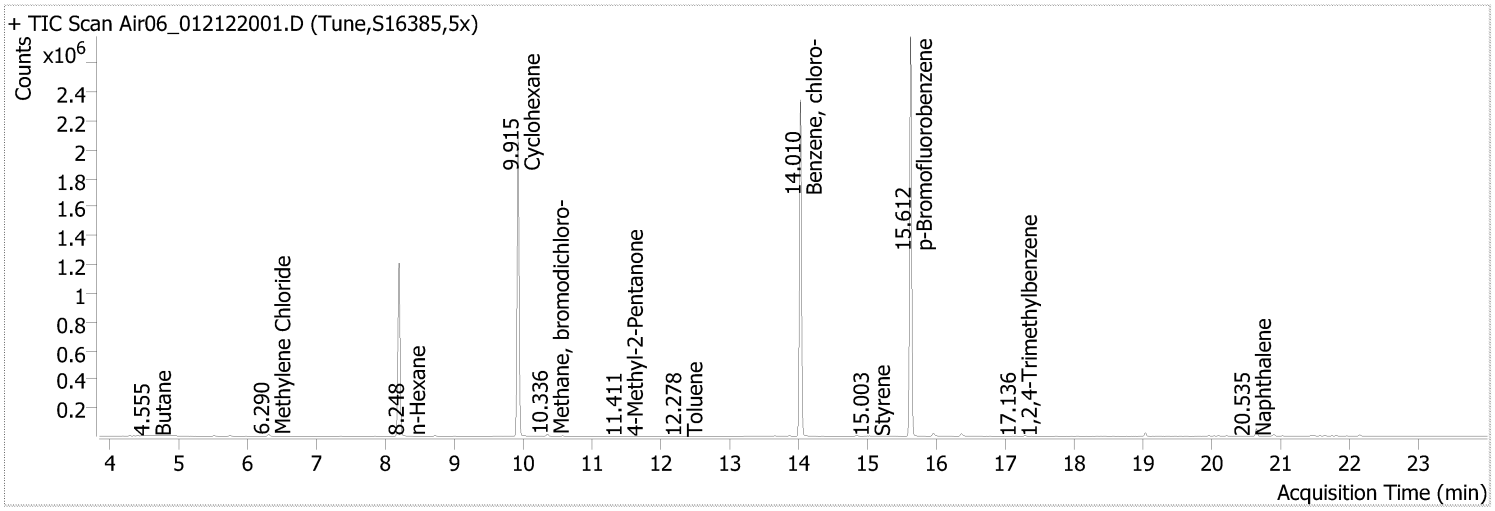
Standards: S16385 (5X)

| Mass | Ion Abundance Criteria | Abundance | % Relative Abundance | Q |
|---|---|---|---|---|
| 50 | 8% - 40% of mass 95 | 137930 | 25.32 | |
| 75 | 30% - 66% of mass 95 | 270274 | 49.62 | |
| 95 | | 544676 | 100.00 | |
| 96 | 5% - 9% of mass 95 | 35324 | 6.49 | |
| 173 | < 2% of mass 174 | 0 | 0.00 | |
| 174 | 50% - 120% of mass 95 | 448476 | 82.34 | |
| 175 | 4% - 9% of mass 174 | 34847 | 7.77 | |
| 176 | 93% - 101% of mass 174 | 435973 | 97.21 | |
| 177 | 5% - 9% of mass 176 | 28968 | 6.64 | |

Analyst: ZNZ Date: 01/21/22 Reviewer: SLL Date: 01/24/22

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012122001.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/21/2022 10:08:28 AM |
| Sample Name | Tune,S16385,5x | Instrument | Air-MS-06 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 220121.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



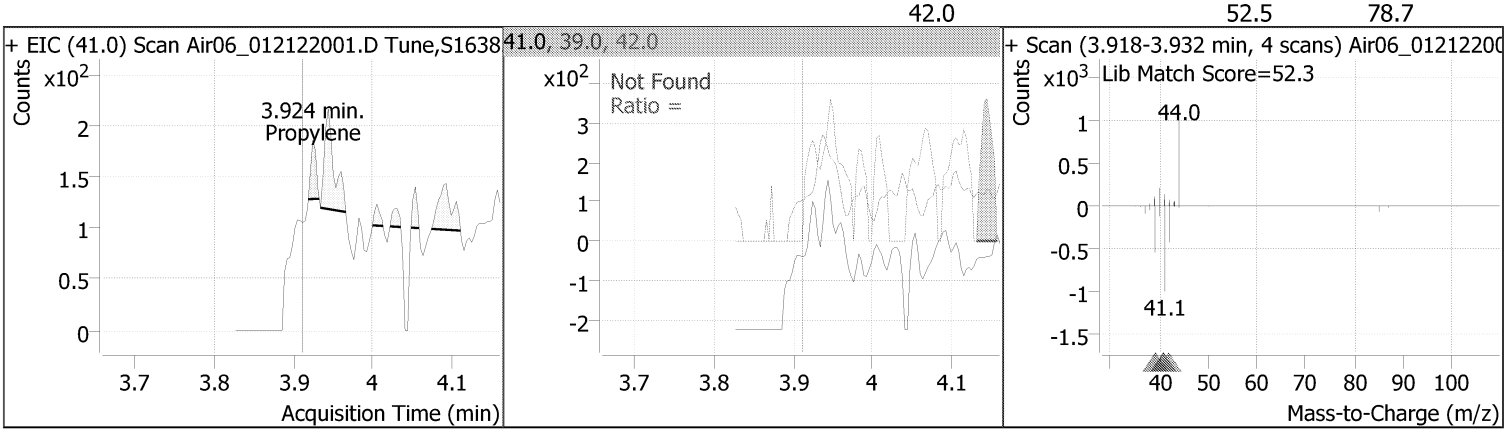

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 408261 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1678305 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 819724 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1111137 | 10.3079 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 103.08% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.924 | 41.0 | 24 | 0.0006 | nL/L | | 15 |
| T Freon 12 | 3.986 | 85.0 | 71 | 0.0007 | nL/L | # | 50 |
| T Chloromethane | 4.148 | 50.0 | 107 | 0.0021 | nL/L | | 50 |
| T Freon 114 | 0.000 | | 0 | N.D. | | | |
| T Vinyl Chloride | 0.000 | | 0 | N.D. | | | |
| T 1,3-Butadiene | 4.439 | 54.0 | 22 | 0.0005 | nL/L | # | 1 |
| T Butane | 4.555 | 43.0 | 694 | 0.0083 | nL/L | # | 91 |
| T Bromomethane | 0.000 | | 0 | N.D. | | | |
| T Chloroethane | 0.000 | | 0 | N.D. | | | |
| T Ethanol | 5.034 | 45.0 | 1764 | 0.0716 | nL/L | # | 90 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 5.348 | 56.0 | 40 | 0.0018 | nL/L | | 84 |
| T Acetone | 5.494 | 58.0 | 1667 | 0.0650 | nL/L | # | 93 |
| T Trichloromonofluoromethane | 0.000 | | 0 | N.D. | | | |
| T Isopropanol (IPA) | 5.724 | 45.0 | 8244 | 0.0897 | nL/L | # | 92 |
| T n-Pentane | 5.717 | 43.0 | 1785 | 0.0174 | nL/L | # | 71 |
| T 1,1-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Tert-butyl alcohol (TBA) | 6.313 | 59.0 | 1106 | 0.0104 | nL/L | # | 12 |
| T Methylene Chloride | 6.290 | 84.0 | 5522 | 0.1222 | nL/L | | 97 |
| T 3-Chloropropene | 0.000 | | 0 | N.D. | | | |
| T Freon 113 | 0.000 | | 0 | N.D. | | | |
| T Carbon Disulfide | 0.000 | | 0 | N.D. | | | |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T 1,1-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T MTBE | 0.000 | | 0 | N.D. | | | |
| T Vinyl Acetate | 7.426 | 43.0 | 459 | 0.0028 | nL/L | | 83 |
| T 2-Butanone | 7.692 | 43.0 | 626 | 0.0050 | nL/L | | 61 |
| T cis-1,2-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Ethyl Acetate | 0.000 | | 0 | N.D. | | | |
| T n-Hexane | 8.248 | 57.0 | 2132 | 0.0238 | nL/L | # | 87 |
| T Chloroform | 8.300 | 83.0 | 150 | 0.0015 | nL/L | # | 38 |
| T Tetrahydrofuran | 8.695 | 72.0 | 1412 | 0.0634 | nL/L | | 90 |
| T 1,2-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Benzene | 9.611 | 78.0 | 233 | 0.0016 | nL/L | # | 69 |
| T Carbon Tetrachloride | 9.851 | 117.0 | 214 | 0.0021 | nL/L | | 23 |
| T Cyclohexane | 9.915 | 84.0 | 2114 | 0.0348 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 10.333 | 63.0 | 3005 | 0.0437 | nL/L | # | 41 |
| T Methane, bromodichloro- | 10.336 | 83.0 | 154 | 0.0014 | nL/L | # | 40 |
| T 1,4-Dioxane | 10.333 | 88.0 | 2248 | 0.0627 | nL/L | | 17 |
| T Trichloroethene | 10.563 | 132.0 | 1123 | 0.0161 | nL/L | # | 95 |
| T 2,2,4-Trimethylpentane | 10.608 | 57.0 | 323 | 0.0010 | nL/L | # | 44 |
| T Methyl methacrylate | 0.000 | | 0 | N.D. | | | |
| T n-Heptane | 0.000 | | 0 | N.D. | | | |
| T cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 4-Methyl-2-Pentanone | 11.411 | 58.0 | 40 | 0.0007 | nL/L | | 1 |
| T trans-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 1,1,2-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Toluene | 12.278 | 91.0 | 584 | 0.0029 | nL/L | # | 93 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 1272402 | 0.0964 | nL/L | | 100 |
| T 2-Hexanone | 0.000 | | 0 | N.D. | | | |
| T Dibromochloromethane | 0.000 | | 0 | N.D. | | | |
| T 1,2-Dibromoethane | 0.000 | | 0 | N.D. | | | |
| T Tetrachloroethene | 0.000 | | 0 | N.D. | | | |
| T 1,1,1,2-Tetrachloroethane | 13.851 | 131.0 | 252 | 0.0036 | nL/L | # | 1 |
| T Benzene, chloro- | 14.010 | 112.0 | 129 | 0.0009 | nL/L | # | 1 |
| T Ethylbenzene | 14.440 | 91.0 | 45 | 0.0002 | nL/L | | 56 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 943128 | 0.0978 | nL/L | | 100 |
| T m,p-Xylenes | 14.625 | 91.0 | 180 | 0.0010 | nL/L | # | 59 |
| T Bromoform | 0.000 | | 0 | N.D. | | | |
| T Styrene | 15.003 | 104.0 | 21 | 0.0001 | nL/L | # | 1 |
| T 1,1,2,2-Tetrachloroethane | 0.000 | | 0 | N.D. | | | |
| T o-Xylene | 15.136 | 91.0 | 33 | 0.0002 | nL/L | | 47 |
| T n-Nonane | 15.359 | 85.0 | 23 | 0.0005 | nL/L | # | 1 |
| T Isopropylbenzene | 15.612 | 105.0 | 1517 | 0.0060 | nL/L | # | 1 |
| T 2-Chlorotoluene | 0.000 | | 0 | N.D. | | | |
| T n-Propylbenzene | 0.000 | | 0 | N.D. | | | |
| T 4-Ethyltoluene | 16.528 | 105.1 | 113 | 0.0005 | nL/L | # | 42 |
| T 1,3,5-Trimethylbenzene | 16.528 | 105.0 | 113 | 0.0005 | nL/L | # | 33 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 376 | 0.0017 | nL/L | # | 73 |
| T Benzyl chloride | 0.000 | | 0 | N.D. | | | |
| T 1,3-Dichlorobenzene | 0.000 | | 0 | N.D. | | | |
| T 1,4-Dichlorobenzene | 0.000 | | 0 | N.D. | | | |
| T 1,2-Dichlorobenzene | 0.000 | | 0 | N.D. | | | |
| T 1,2,4-Trichlorobenzene | 0.000 | | 0 | N.D. | | | |
| T Naphthalene | 20.535 | 128.0 | 285 | 0.0012 | nL/L | | 72 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.000 | | 0 | N.D. | | | |

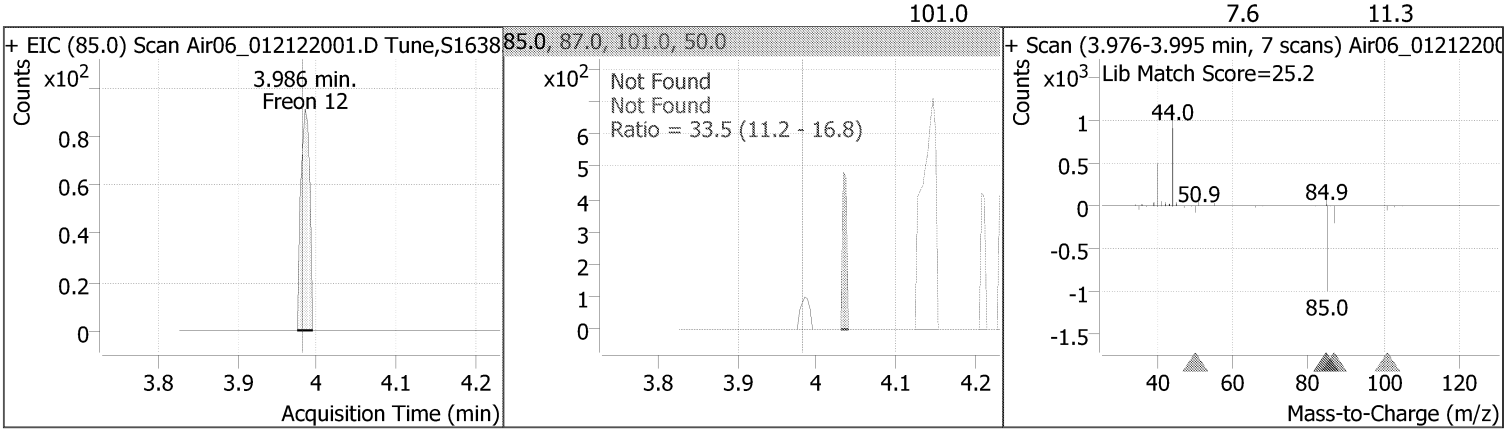
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

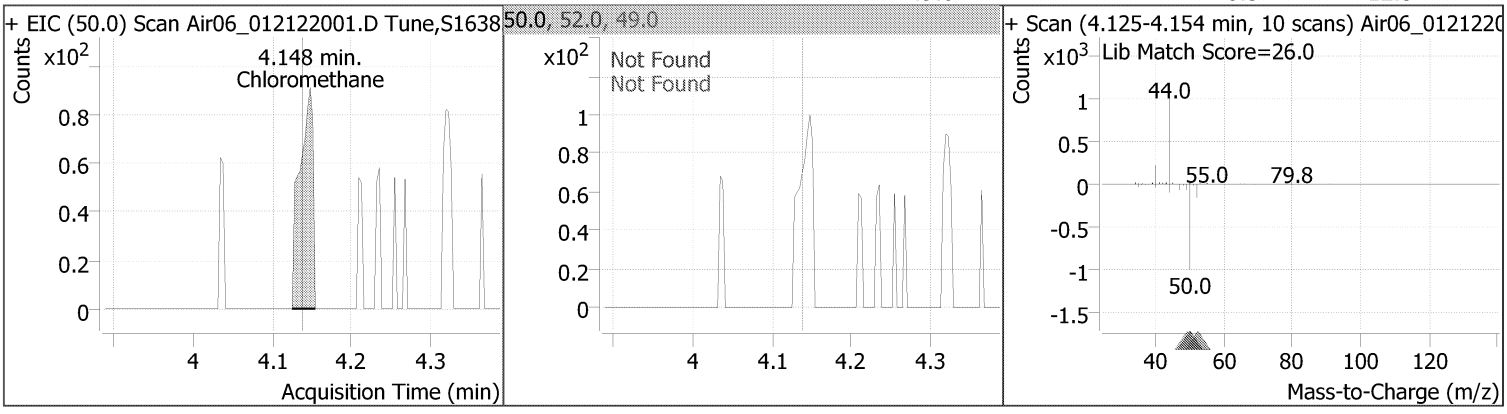
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.0006 | 3.92 | 0.02 | 24 | 39.0 | | 58.6 | 87.9 |
| | | | | | 42.0 | | 52.5 | 78.7 |



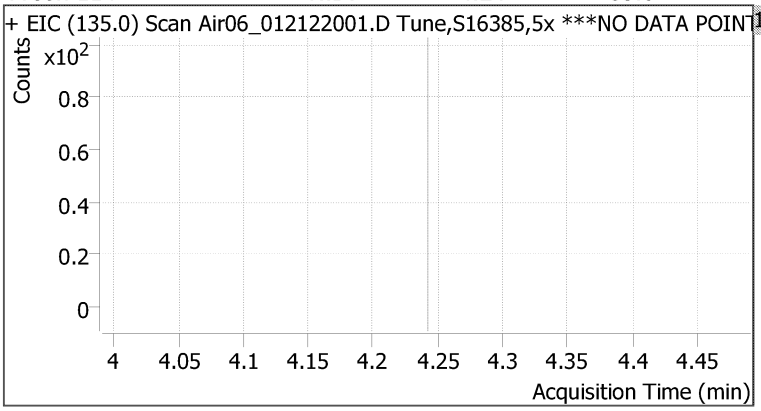

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.0007 | 3.99 | 0.01 | 71 | 87.0 | | 26.0 | 38.9 |
| | | | | | 50.0 | 33.5 | 11.2 | 16.8 |
| | | | | | 101.0 | | 7.6 | 11.3 |

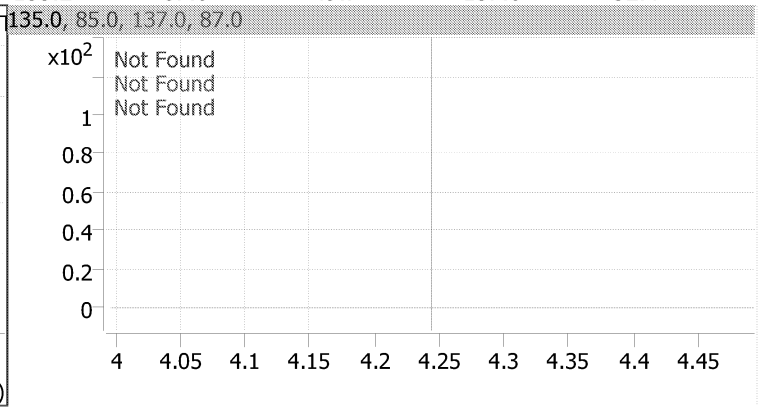



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0021 | 4.15 | 0.01 | 107 | 52.0 | | 25.8 | 38.7 |
| | | | | | 49.0 | | 8.3 | 12.5 |

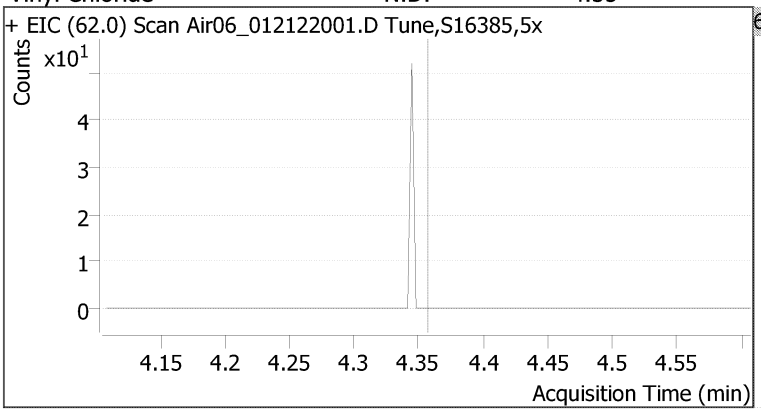


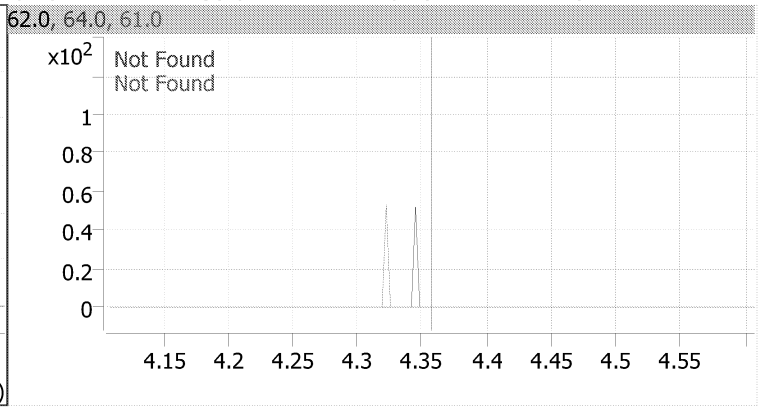
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | N.D. | 4.24 | 85.0 | 155.2 | 87.0 | 49.7 | 137.0 | 32.4 |



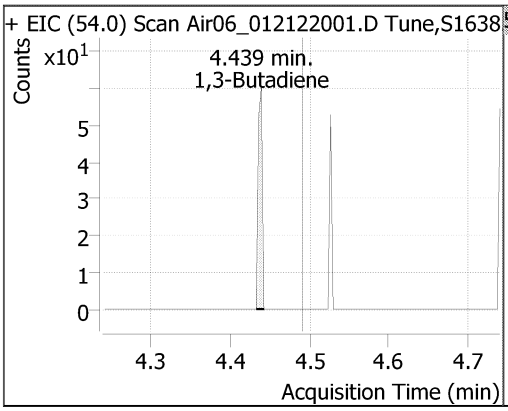



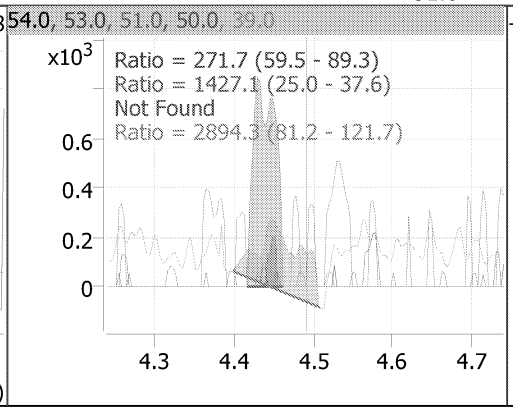

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl Chloride | N.D. | 4.35 | 64.0 | 30.6 | 61.0 | 9.1 |

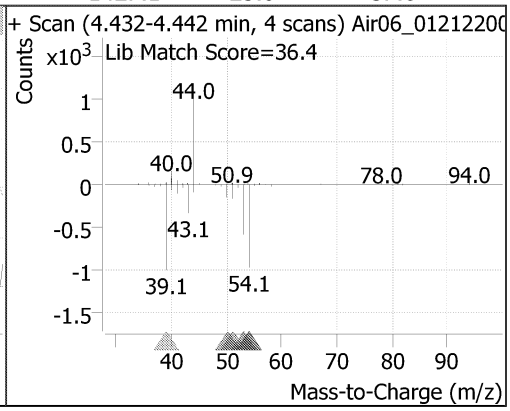



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.0005 | 4.44 | -0.05 | 22 | 39.0 | 2894.3 | 81.2 | 121.7 |
| | | | | | 53.0 | 271.7 | 59.5 | 89.3 |
| | | | | | 50.0 | | 27.7 | 41.6 |
| | | | | | 51.0 | 1427.1 | 25.0 | 37.6 |

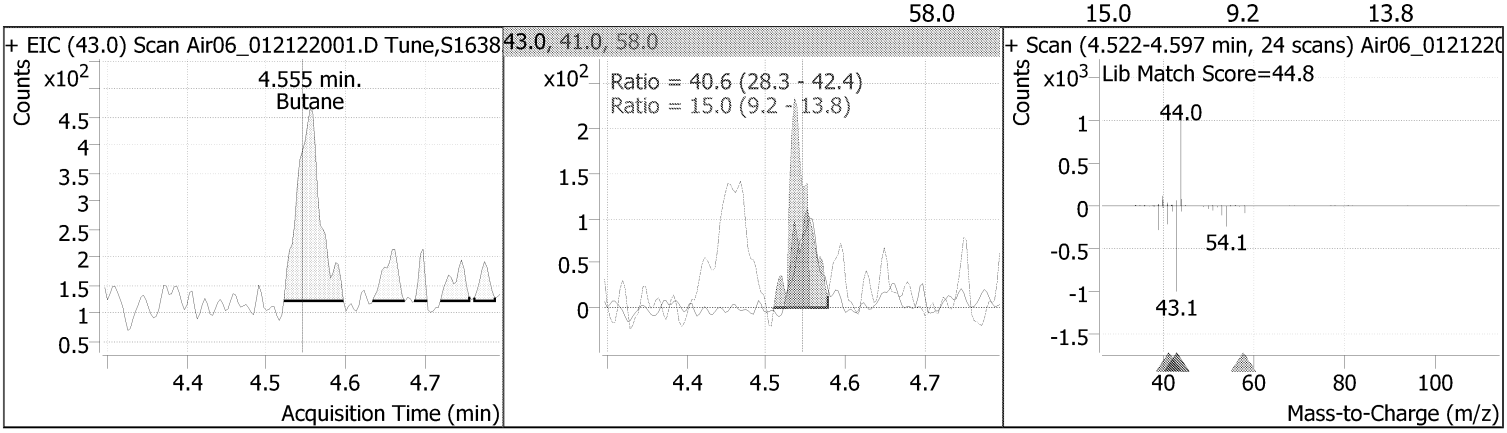


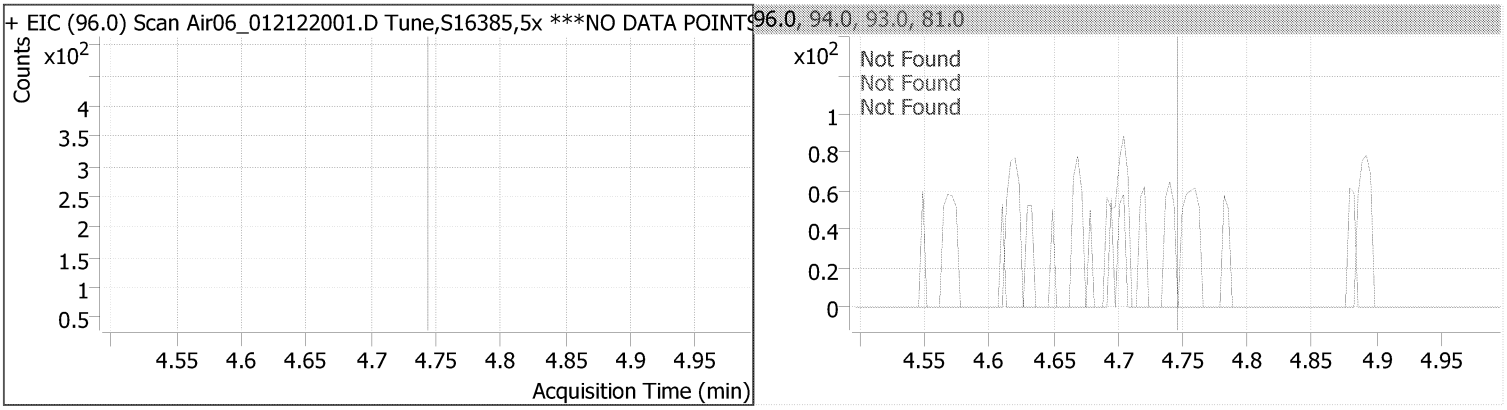



# Quantitation Results Report (Not Reviewed)

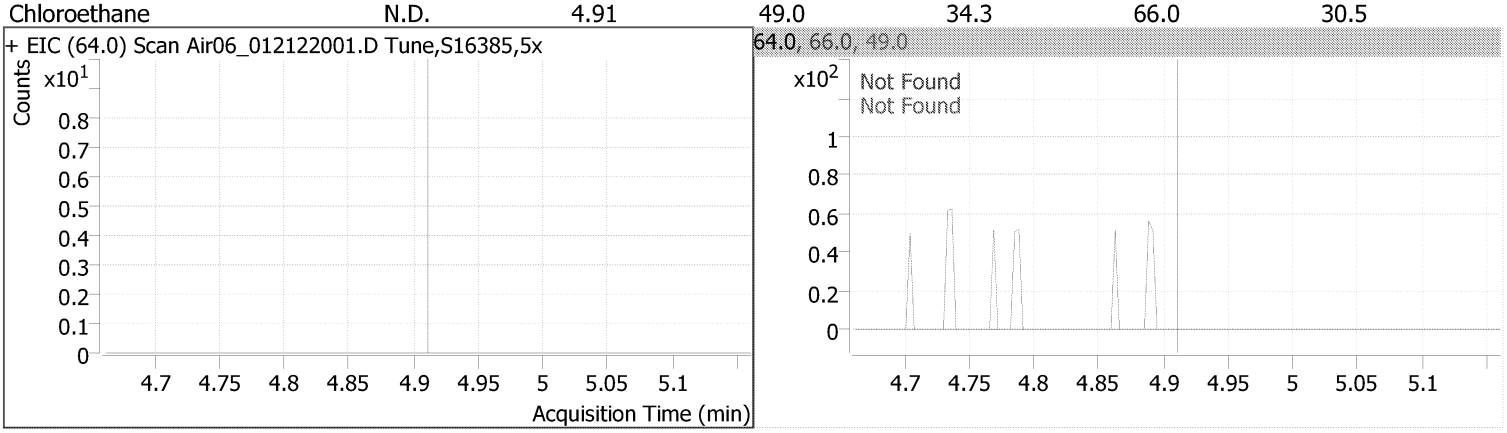
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0083 | 4.56 | 0.01 | 694 | 41.0 | 40.6 | 28.3 | 42.4 |
| | | | | | 58.0 | 15.0 | 9.2 | 13.8 |



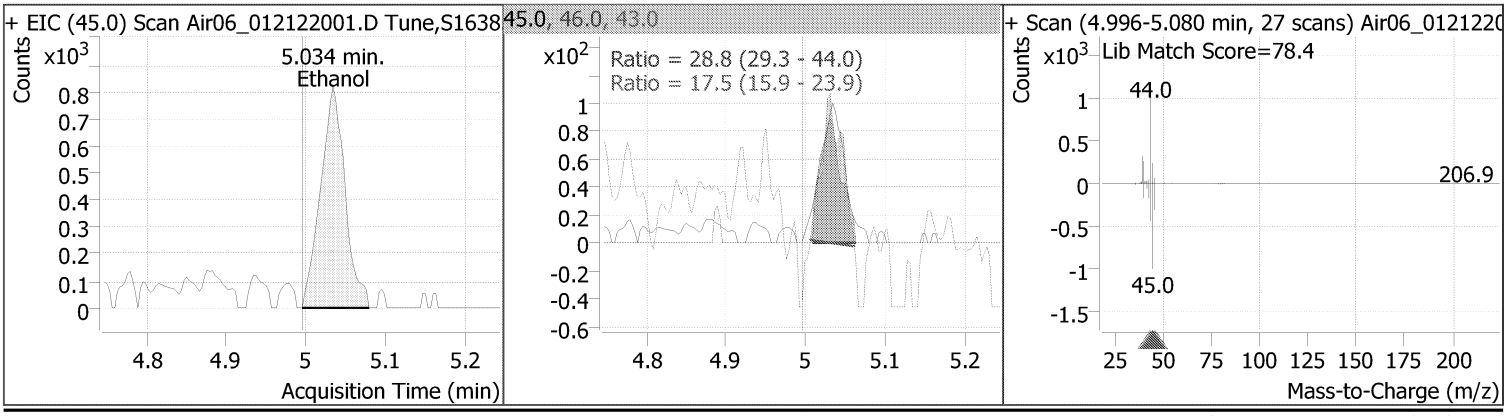

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | N.D. | 4.74 | 94.0 | 107.1 | 93.0 | 22.6 | 81.0 | 17.5 |



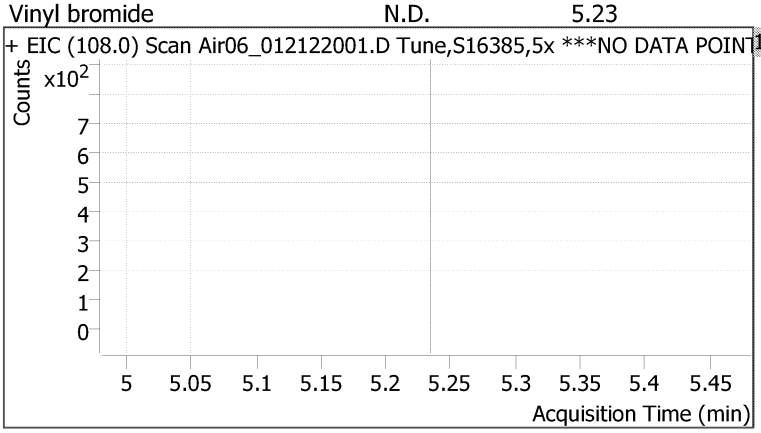

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Chloroethane | N.D. | 4.91 | 49.0 | 34.3 | 66.0 | 30.5 |

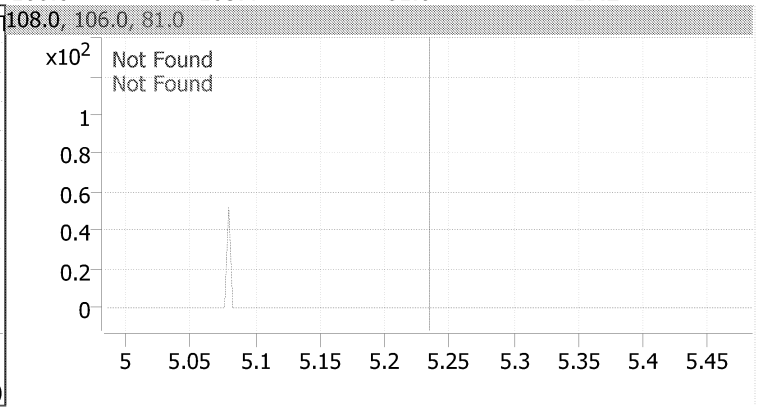



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.0716 | 5.03 | 0.04 | 1764 | 46.0 | 28.8 | 29.3 | 44.0 |
| | | | | | 43.0 | 17.5 | 15.9 | 23.9 |

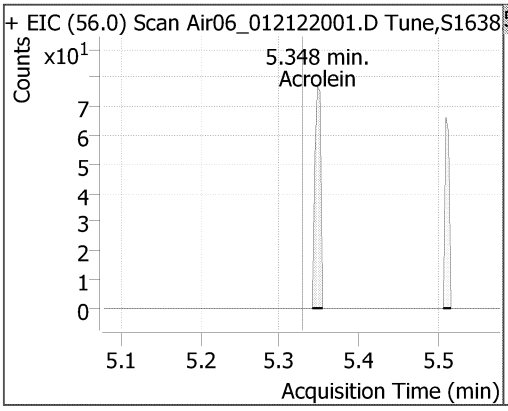


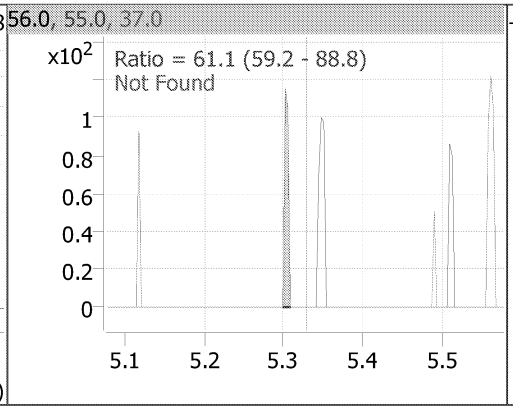
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.23 | 106.0 | 105.4 | 81.0 | 17.2 |

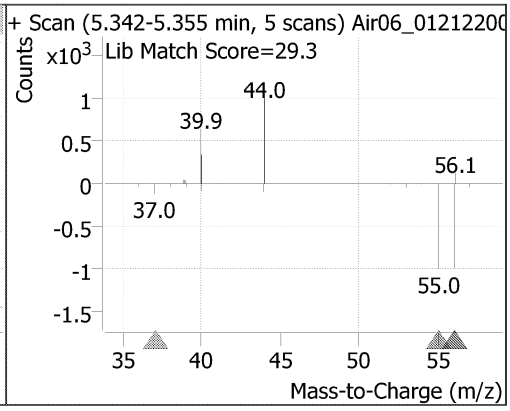


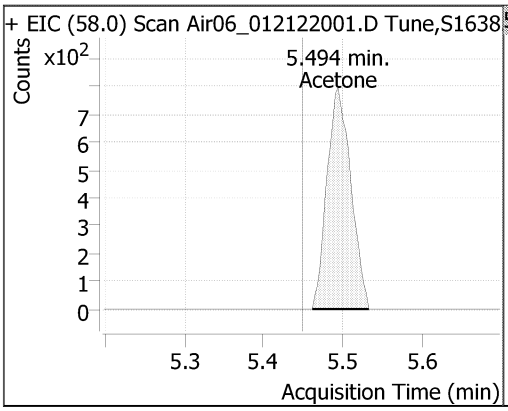

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0018 | 5.35 | 0.02 | 40 | 55.0 | 61.1 | 59.2 | 88.8 |
| | | | | | 37.0 | | 7.3 | 11.0 |

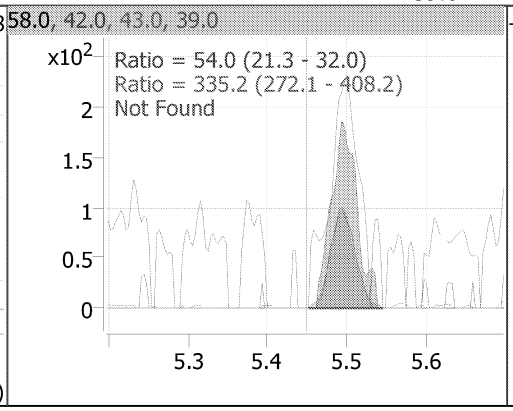


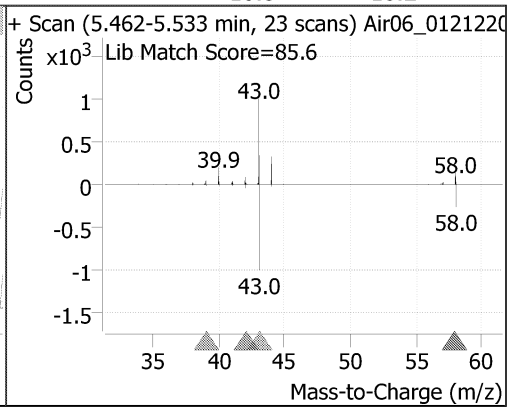



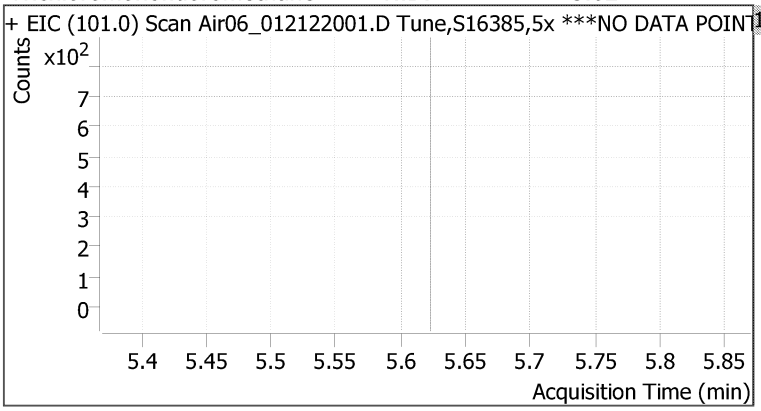

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.0650 | 5.49 | 0.05 | 1667 | 43.0 | 335.2 | 272.1 | 408.2 |
| | | | | | 42.0 | 54.0 | 21.3 | 32.0 |
| | | | | | 39.0 | | 10.8 | 16.2 |

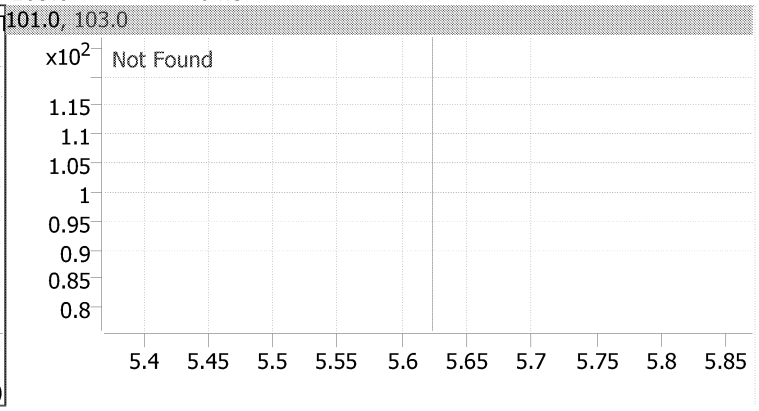


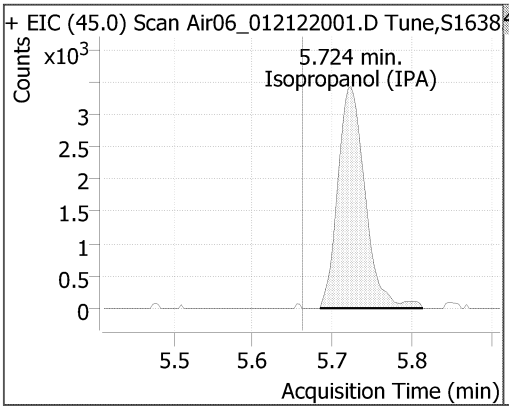



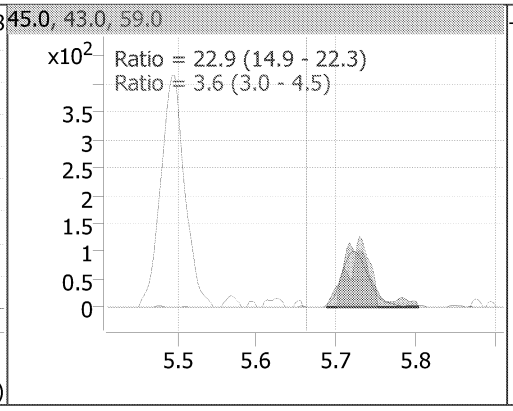
| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Trichloromonofluoromethane | N.D. | 5.62 | 103.0 | 64.5 |

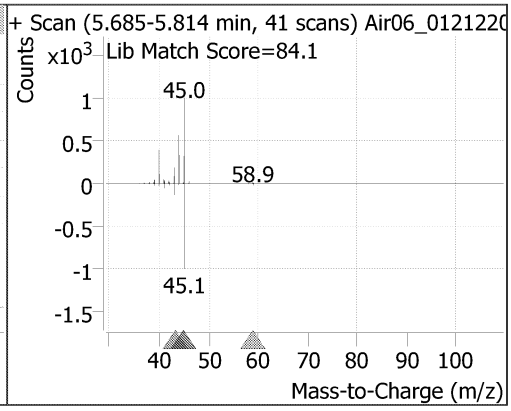


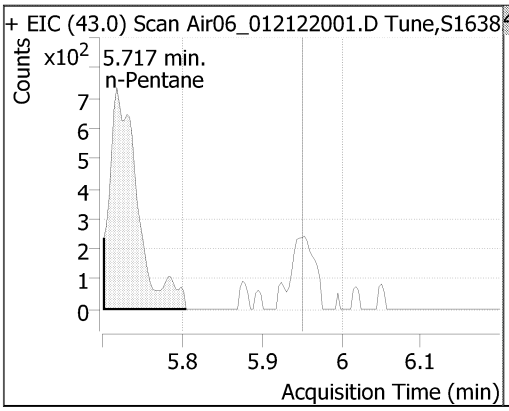

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.0897 | 5.72 | 0.06 | 8244 | 43.0 | 22.9 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.6 | 3.0 | 4.5 |

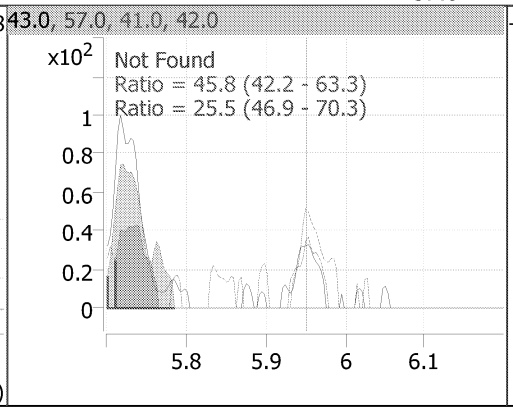


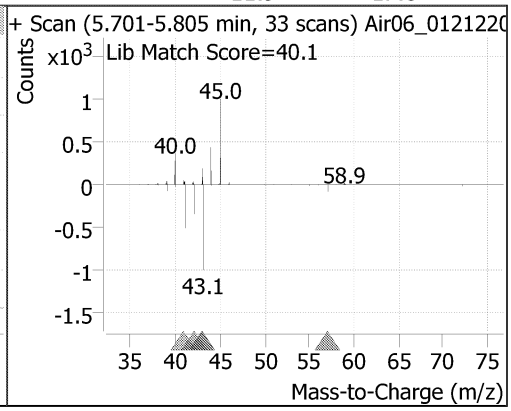



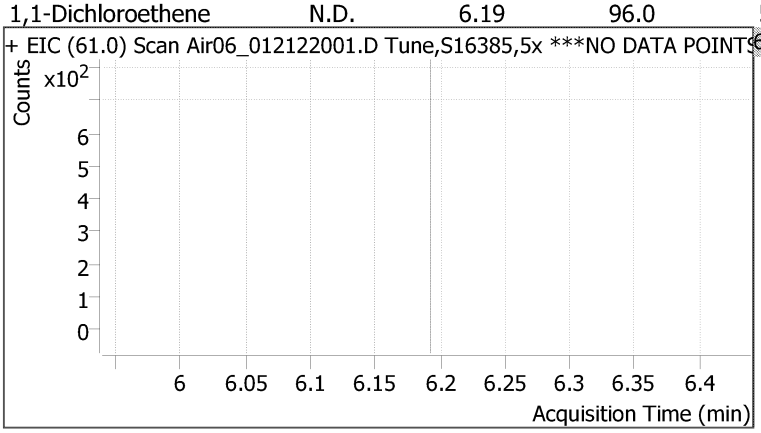

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.0174 | 5.72 | -0.23 | 1785 | 42.0 | 25.5 | 46.9 | 70.3 |
| | | | | | 41.0 | 45.8 | 42.2 | 63.3 |
| | | | | | 57.0 | | 11.9 | 17.8 |

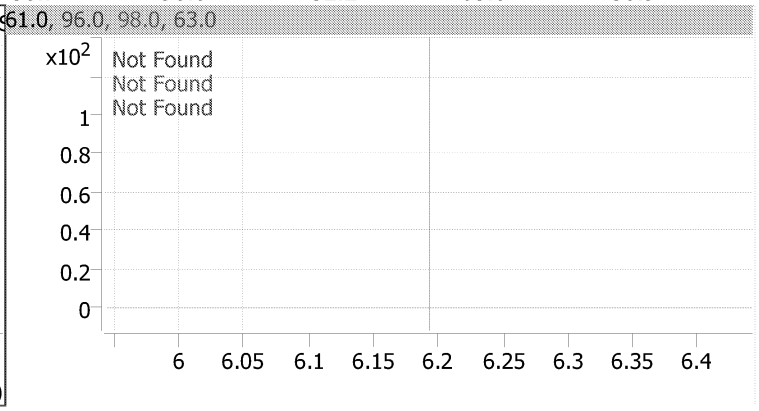


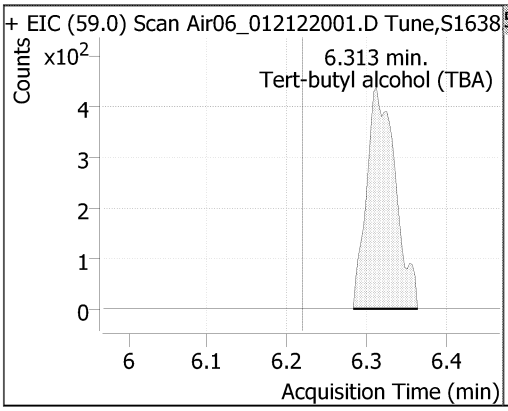



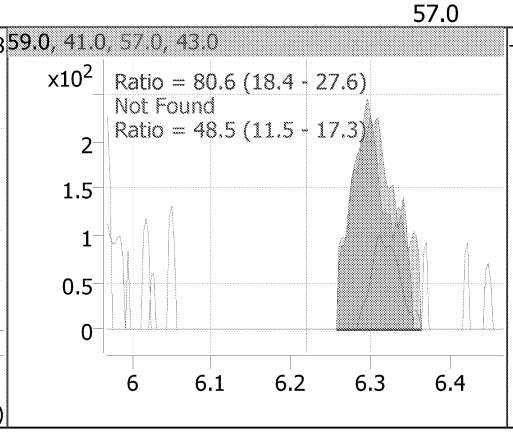
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | N.D. | 6.19 | 96.0 | 50.7 | 98.0 | 32.2 | 63.0 | 30.9 |

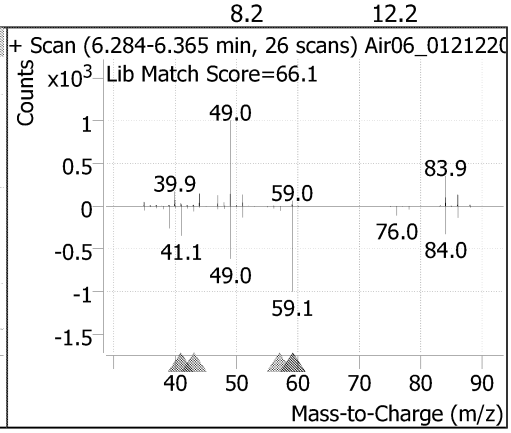


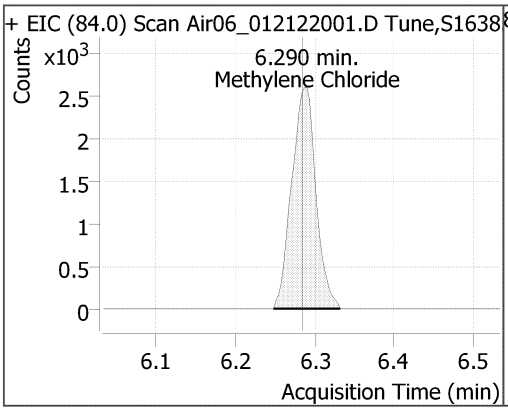

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.0104 | 6.31 | 0.10 | 1106 | 41.0 | 80.6 | 18.4 | 27.6 |
| | | | | | 43.0 | 48.5 | 11.5 | 17.3 |
| | | | | | 57.0 | | 8.2 | 12.2 |

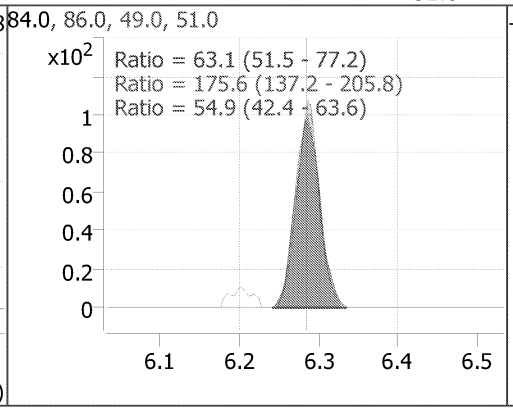


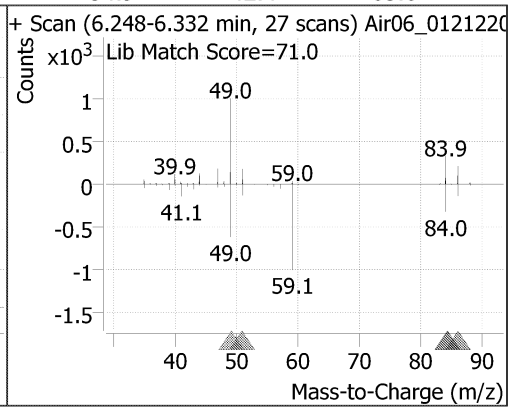



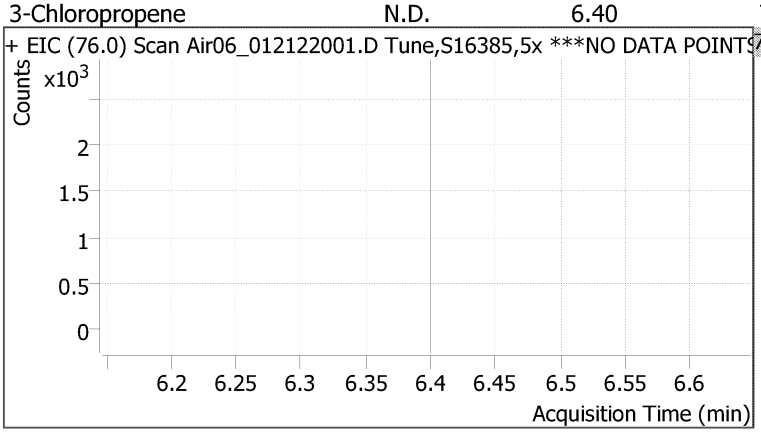

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1222 | 6.29 | 0.01 | 5522 | 49.0 | 175.6 | 137.2 | 205.8 |
| | | | | | 86.0 | 63.1 | 51.5 | 77.2 |
| | | | | | 51.0 | 54.9 | 42.4 | 63.6 |

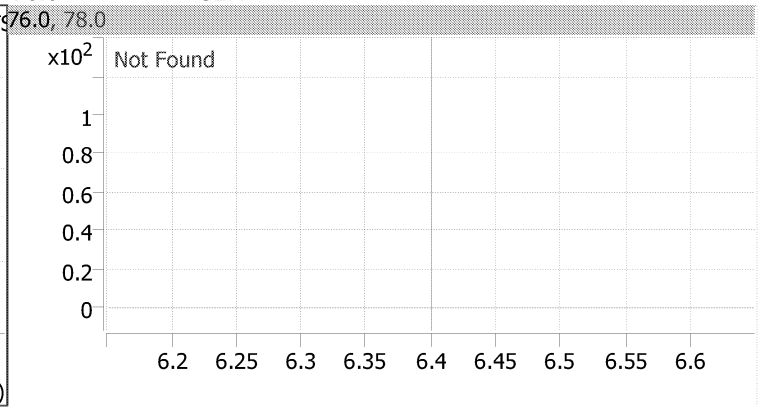


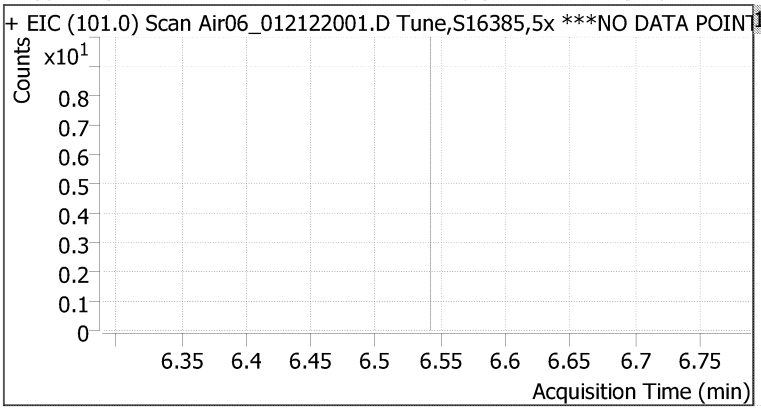



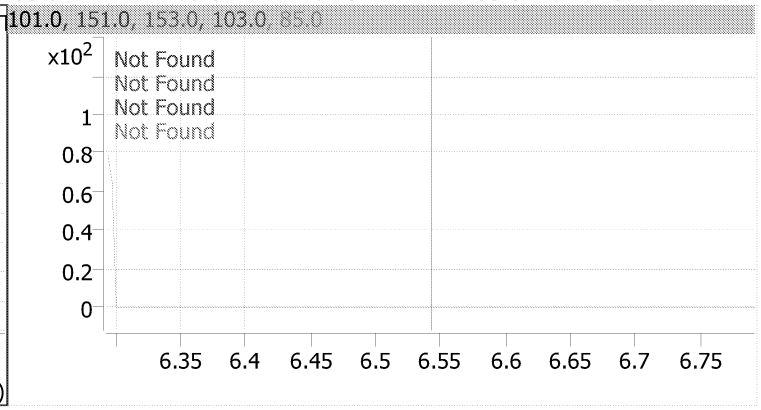
| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| 3-Chloropropene | N.D. | 6.40 | 78.0 | 32.4 |



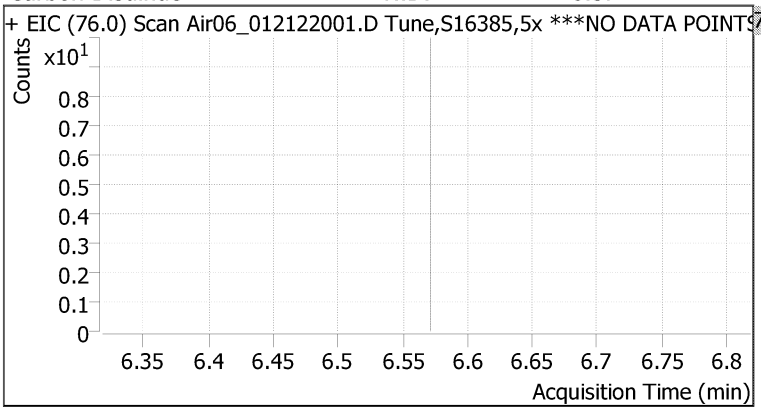



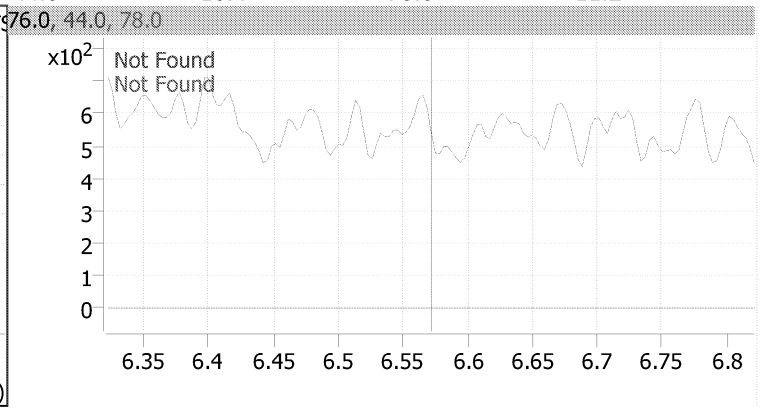

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | N.D. | 6.54 | 151.0 | 85.0 | 103.0 | 64.3 | 153.0 | 54.9 |



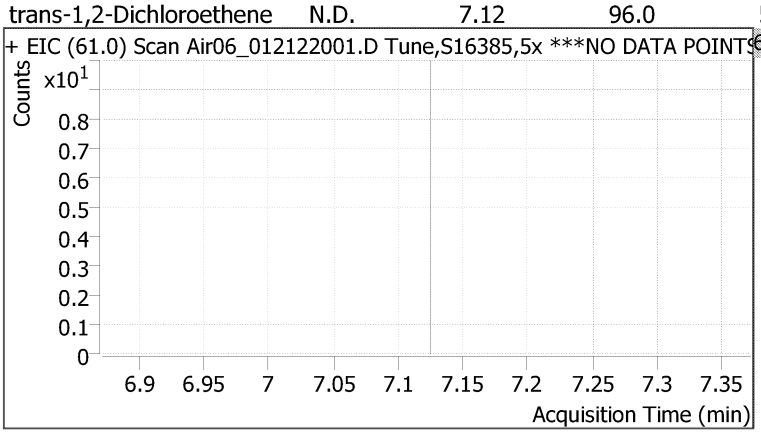



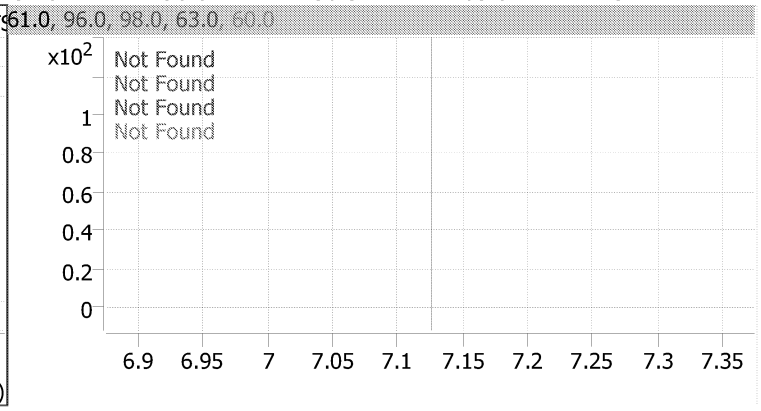

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Carbon Disulfide | N.D. | 6.57 | 44.0 | 16.4 | 78.0 | 11.2 |



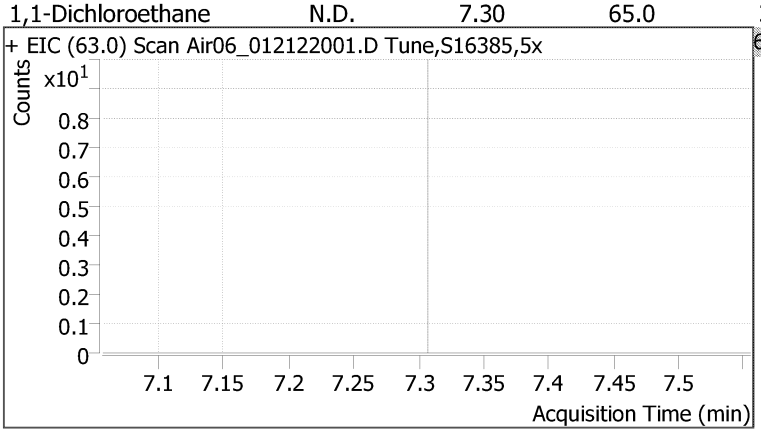



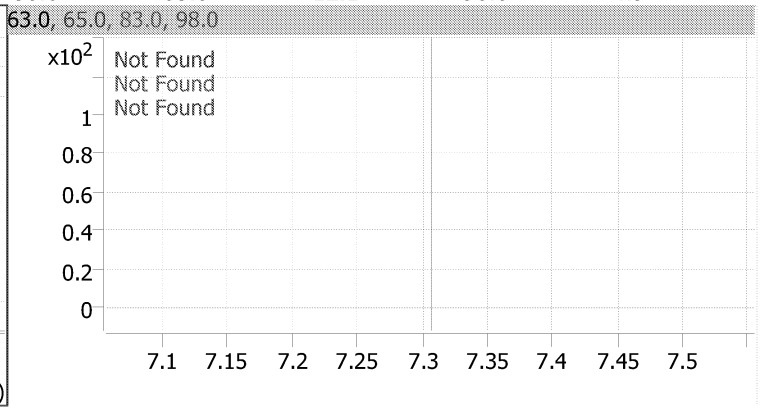

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | N.D. | 7.12 | 96.0 | 57.0 | 98.0 | 36.5 | 63.0 | 31.1 |



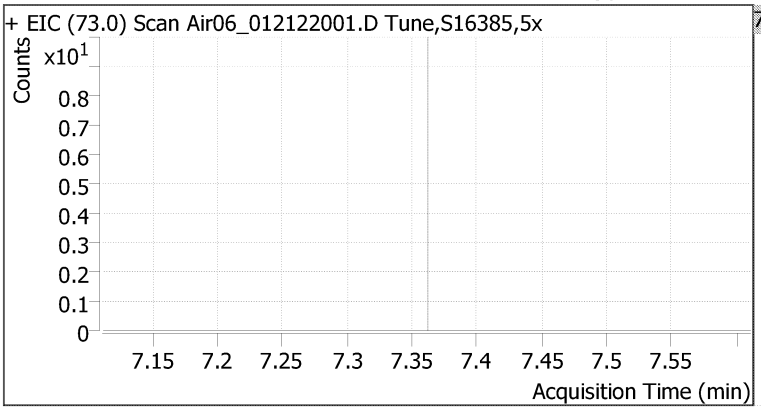



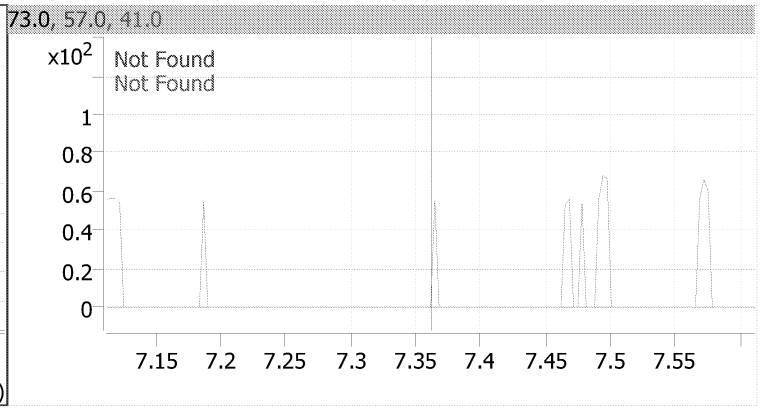
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | N.D. | 7.30 | 65.0 | 30.6 | 83.0 | 12.1 | 98.0 | 4.9 |



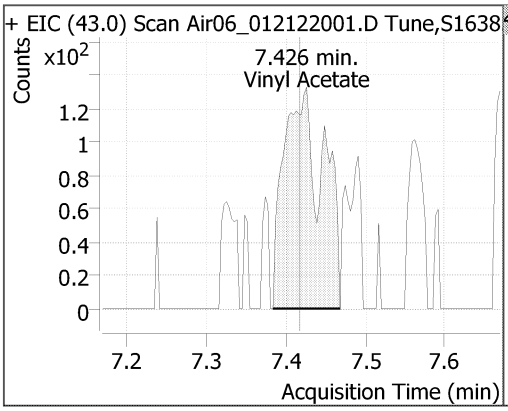



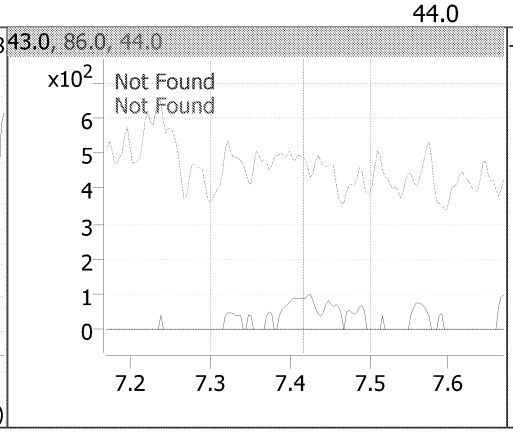

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| MTBE | N.D. | 7.36 | 41.0 | 29.1 | 57.0 | 27.6 |

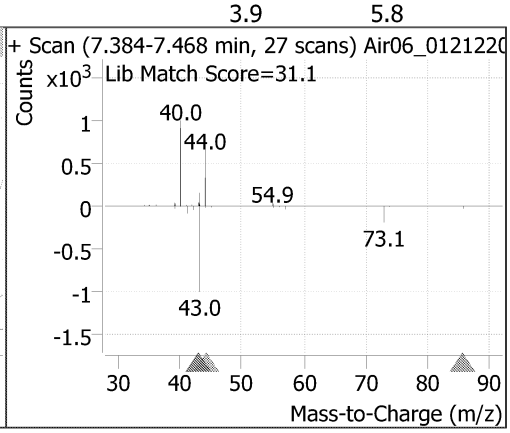


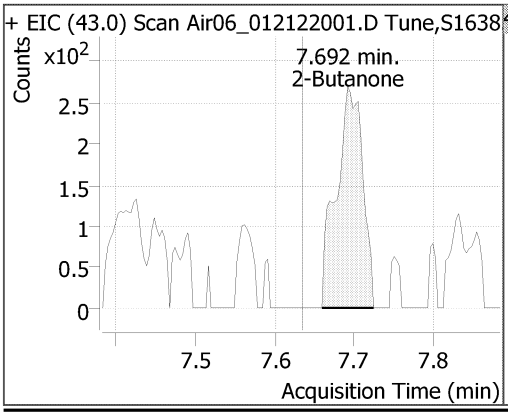

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.0028 | 7.43 | 0.01 | 459 | 86.0 | | 5.2 | 7.9 |
| | | | | | 44.0 | | 3.9 | 5.8 |

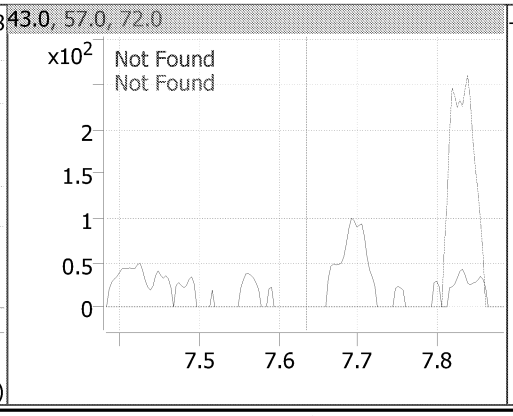


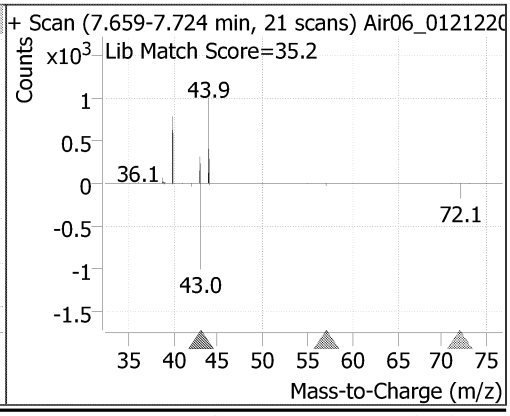



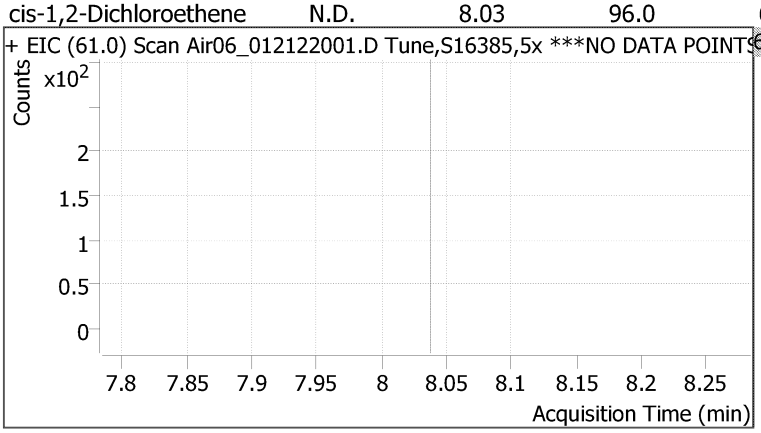

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0050 | 7.69 | 0.06 | 626 | 72.0 | | 16.8 | 25.2 |
| | | | | | 57.0 | | 6.9 | 10.4 |

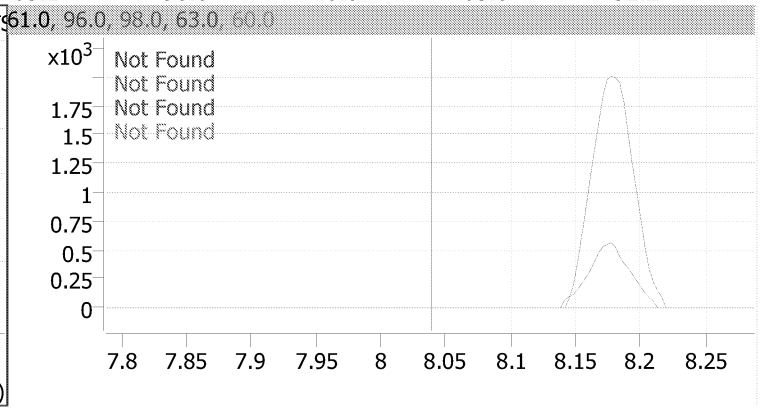


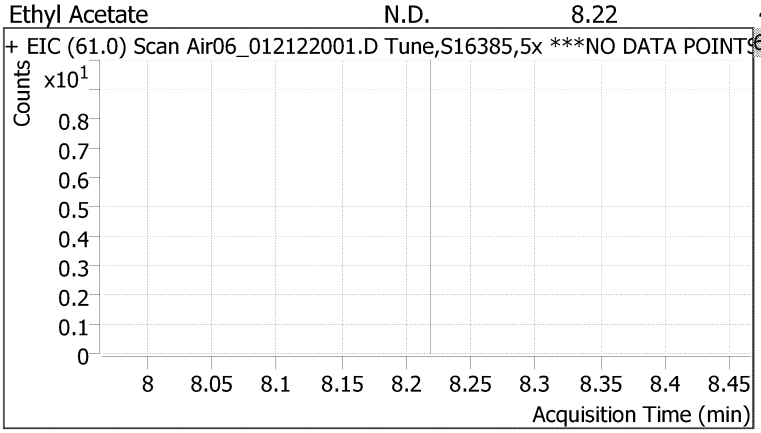



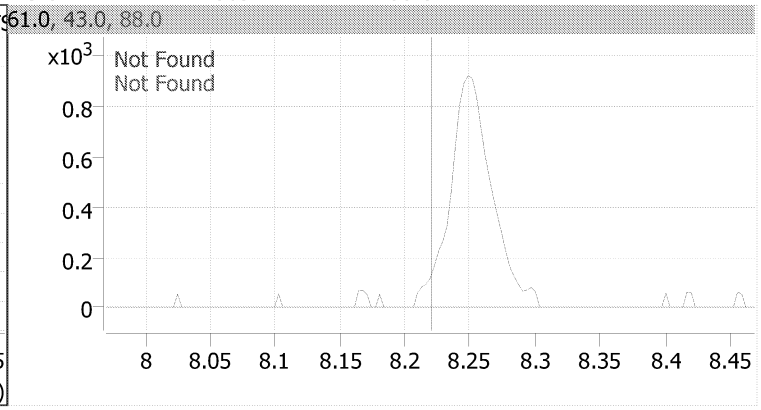
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | N.D. | 8.03 | 96.0 | 63.1 | 98.0 | 40.0 | 63.0 | 31.2 |



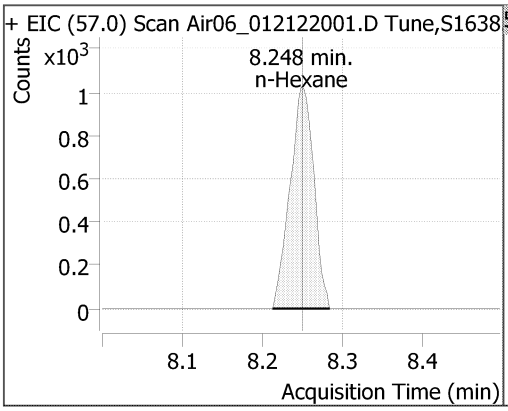



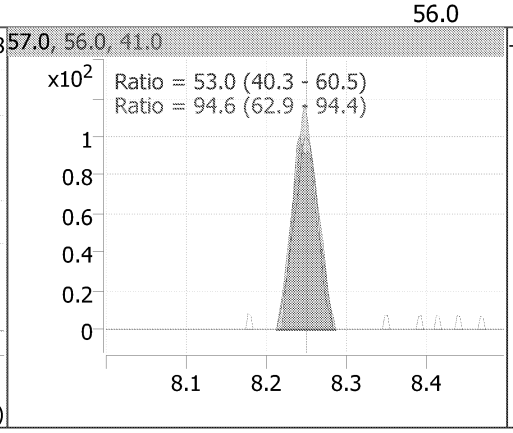

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Ethyl Acetate | N.D. | 8.22 | 43.0 | 1069.4 | 88.0 | 21.1 |

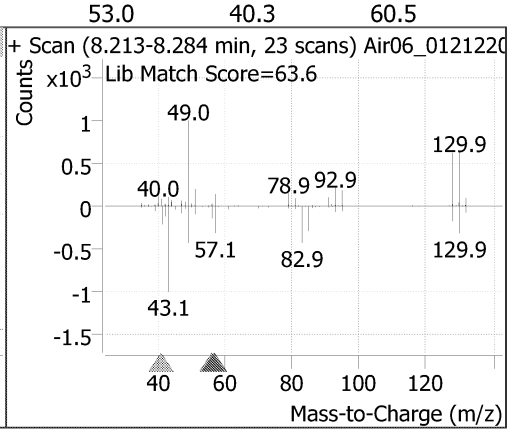


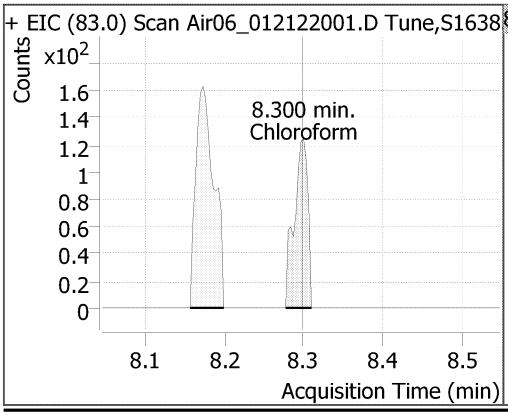

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0238 | 8.25 | 0.00 | 2132 | 41.0 | 94.6 | 62.9 | 94.4 |
| | | | | | 56.0 | 53.0 | 40.3 | 60.5 |

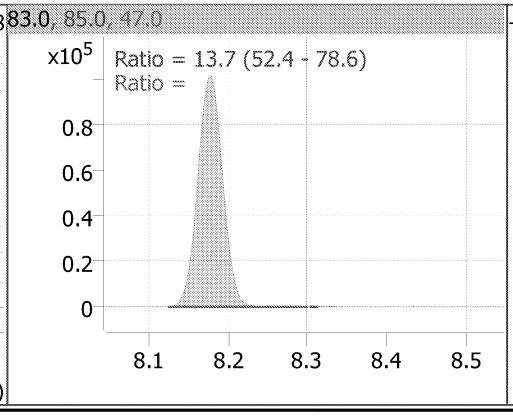


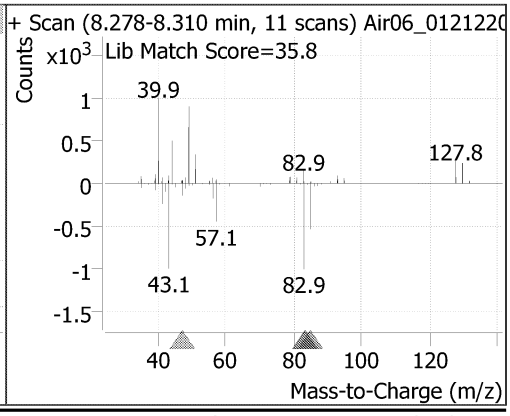




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0015 | 8.30 | 0.01 | 150 | 85.0 | 13.7 | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |

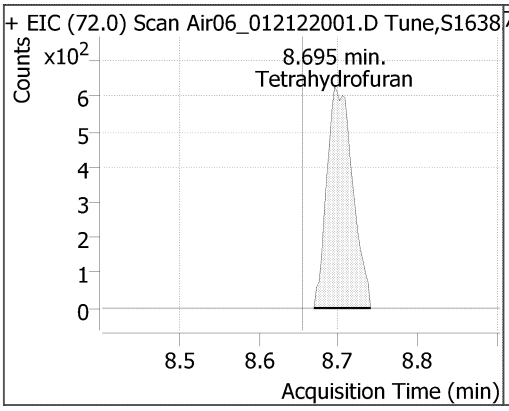


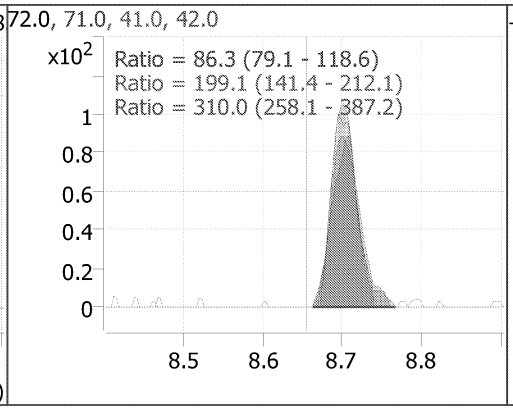



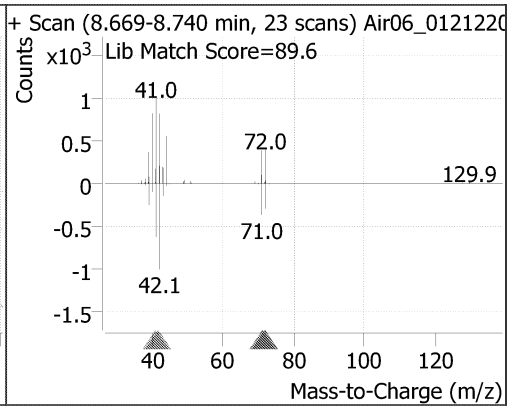



# Quantitation Results Report (Not Reviewed)

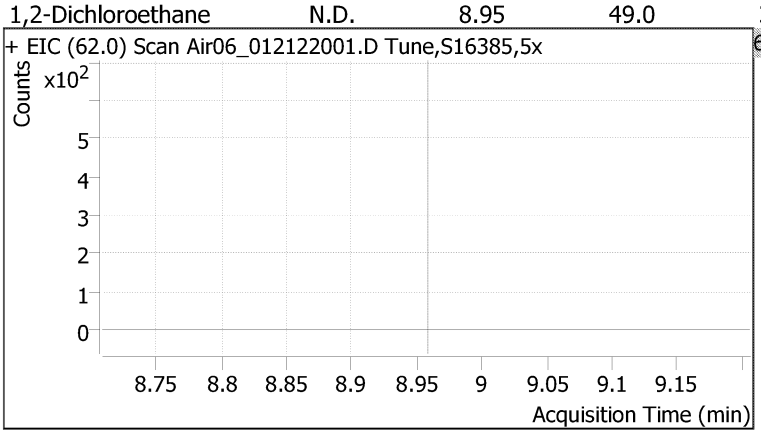
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.0634 | 8.70 | 0.05 | 1412 | 42.0 | 310.0 | 258.1 | 387.2 |
| | | | | | 41.0 | 199.1 | 141.4 | 212.1 |
| | | | | | 71.0 | 86.3 | 79.1 | 118.6 |

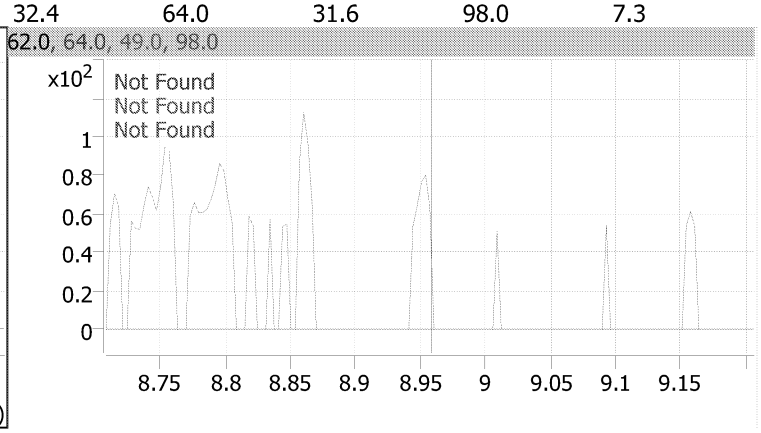


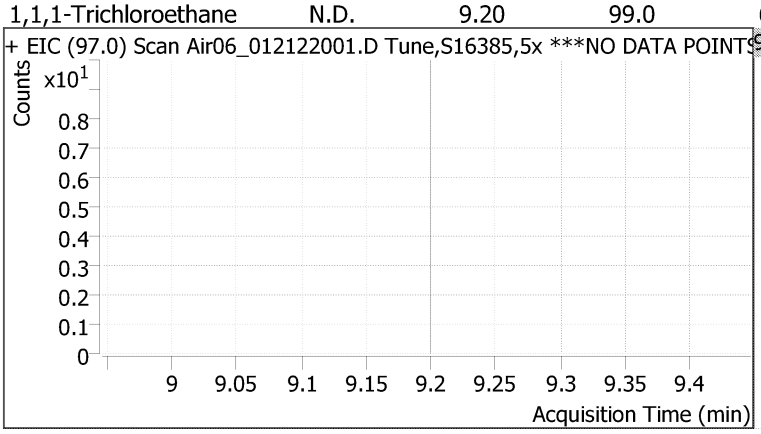



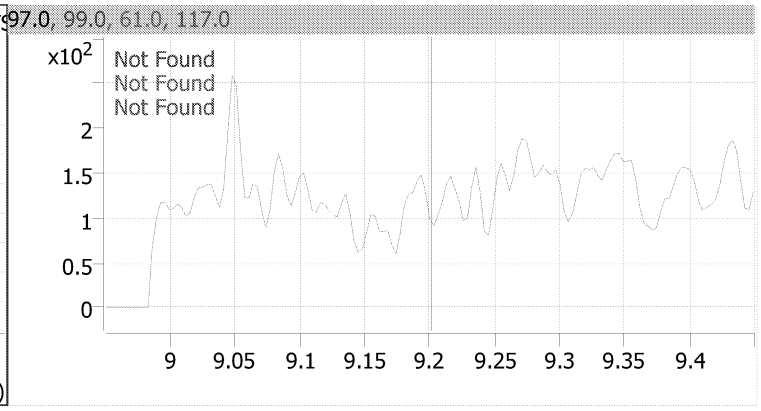

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | N.D. | 8.95 | 49.0 | 32.4 | 64.0 | 31.6 | 98.0 | 7.3 |



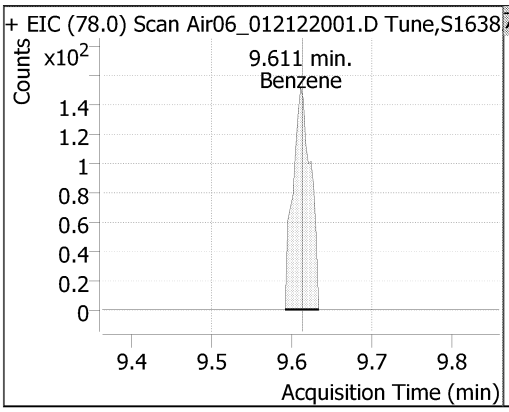



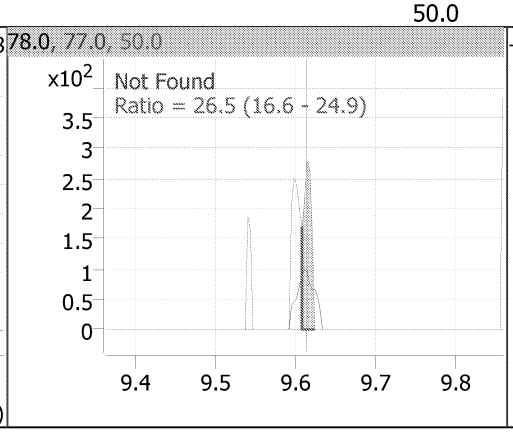

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | N.D. | 9.20 | 99.0 | 64.2 | 61.0 | 48.3 | 117.0 | 12.8 |

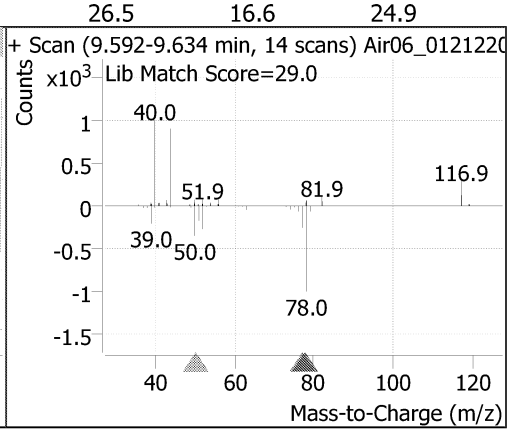


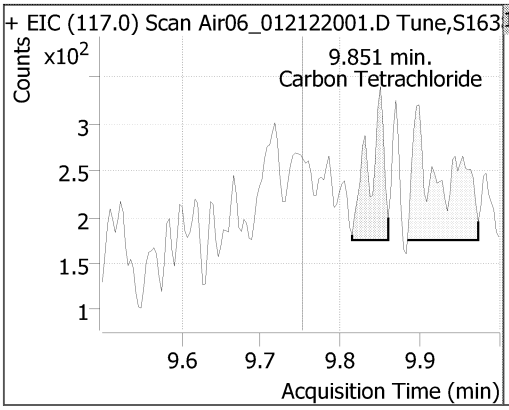
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0016 | 9.61 | 0.00 | 233 | 77.0 | | 18.9 | 28.3 |
| | | | | | 50.0 | 26.5 | 16.6 | 24.9 |

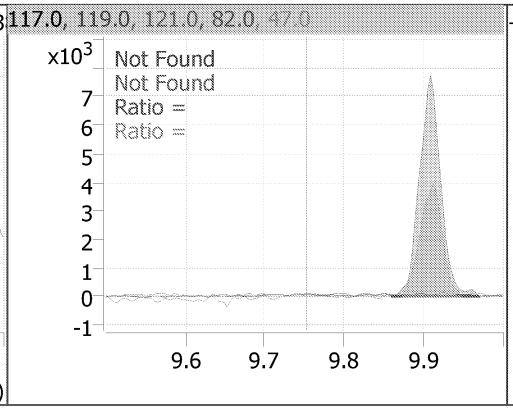


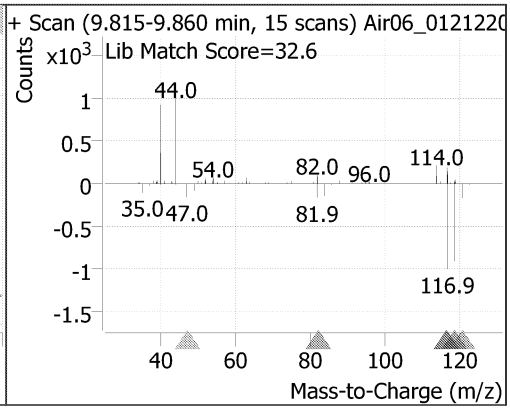



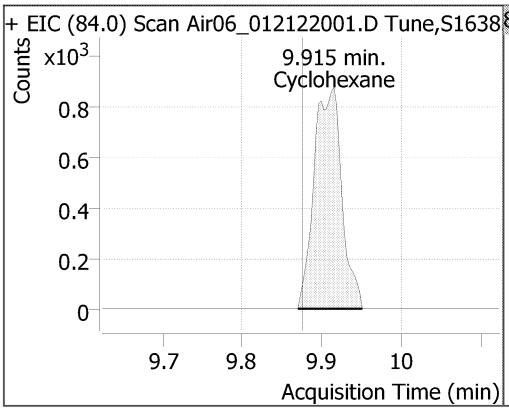

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.0021 | 9.85 | 0.10 | 214 | 119.0 | | 77.1 | 115.7 |
| | | | | | 121.0 | | 24.8 | 37.3 |
| | | | | | 82.0 | | 19.3 | 28.9 |
| | | | | | 47.0 | | 19.0 | 28.5 |

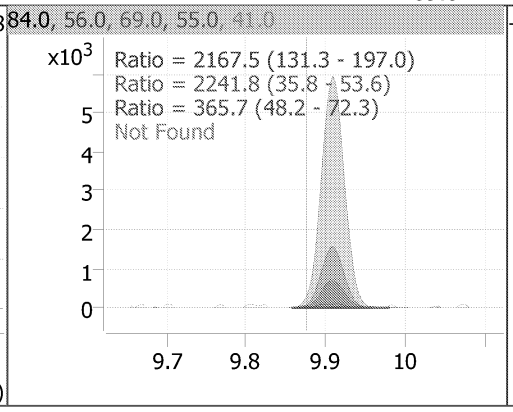


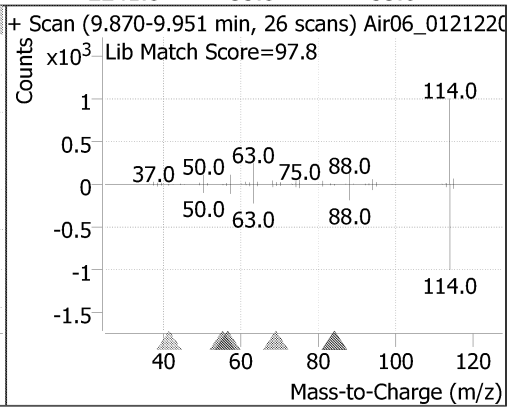



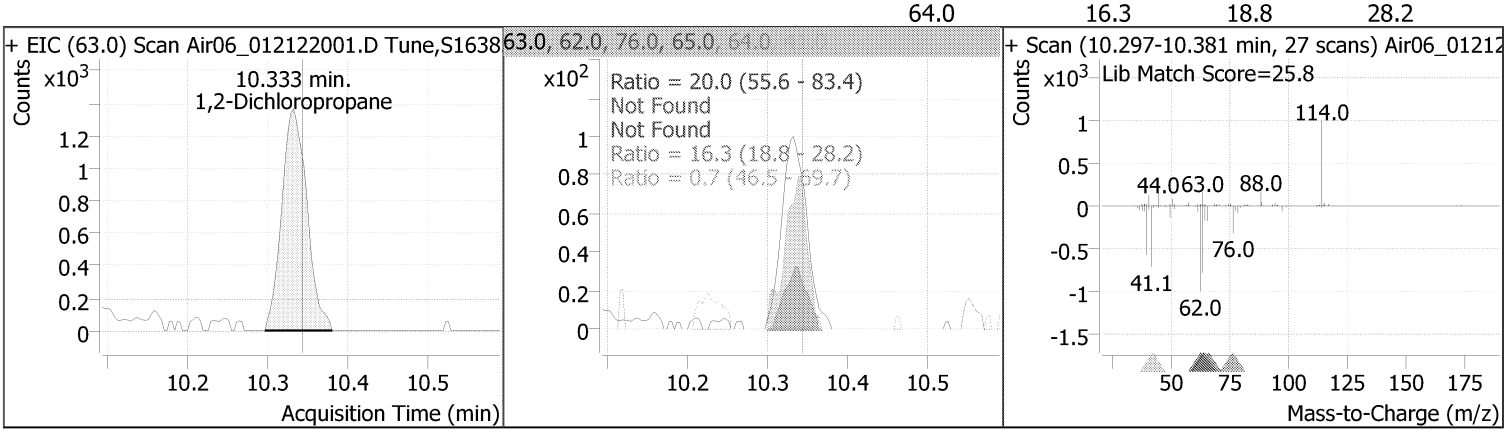

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0348 | 9.92 | 0.05 | 2114 | 56.0 | 2167.5 | 131.3 | 197.0 |
| | | | | | 41.0 | | 72.0 | 108.0 |
| | | | | | 55.0 | 365.7 | 48.2 | 72.3 |
| | | | | | 69.0 | 2241.8 | 35.8 | 53.6 |



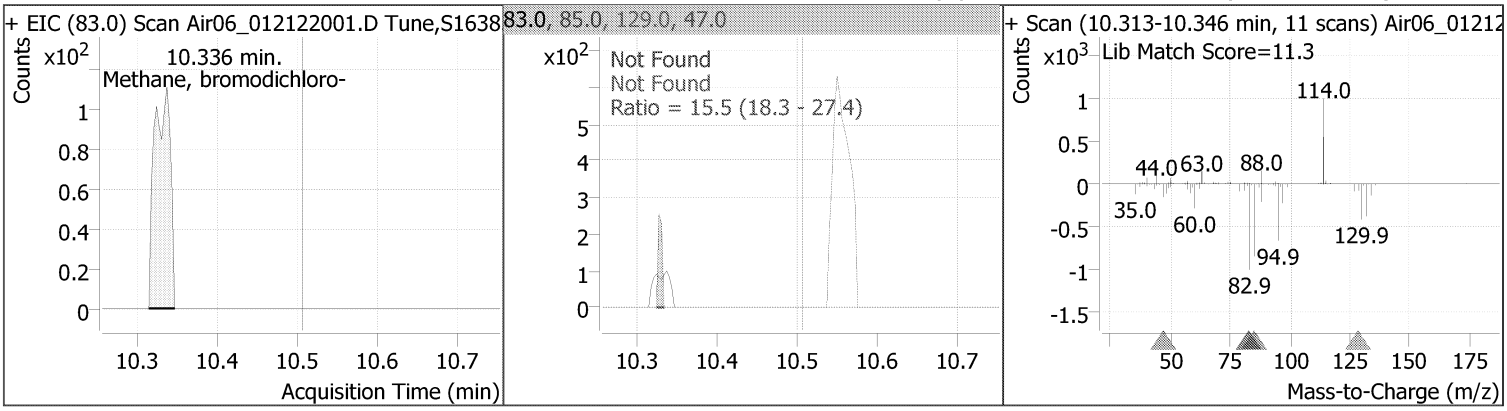



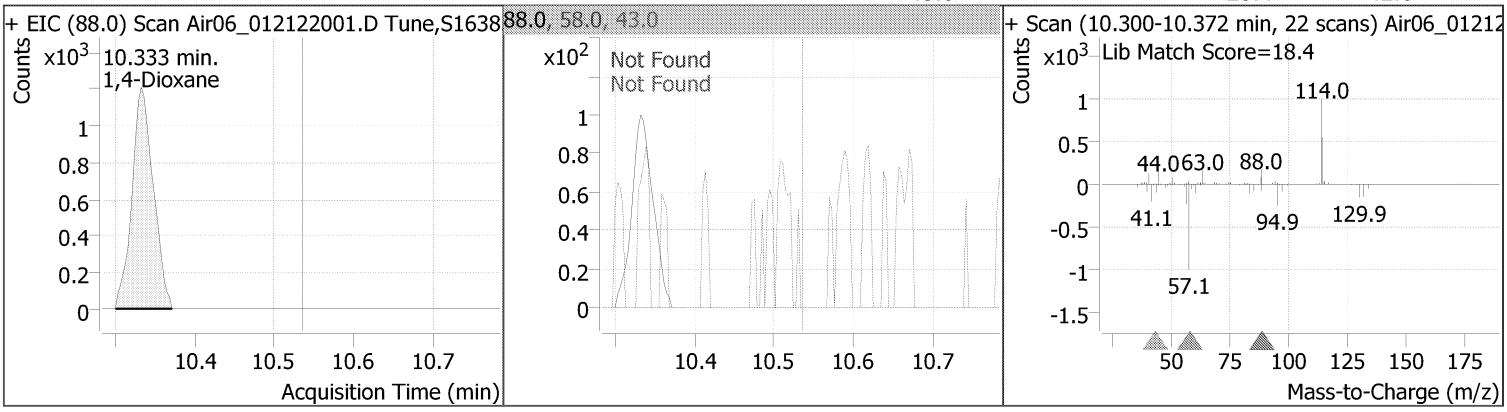
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0437 | 10.33 | -0.01 | 3005 | 62.0 | 20.0 | 55.6 | 83.4 |
| | | | | | 41.0 | 0.7 | 46.5 | 69.7 |
| | | | | | 76.0 | | 28.4 | 42.6 |
| | | | | | 65.0 | | 23.7 | 35.6 |
| | | | | | 64.0 | 16.3 | 18.8 | 28.2 |



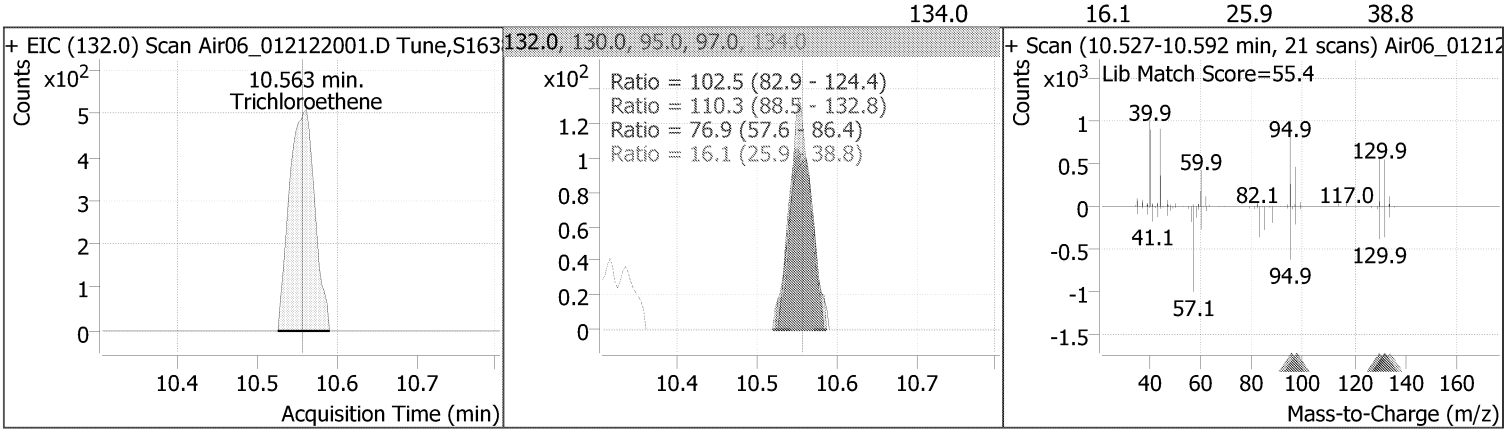

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0014 | 10.34 | -0.17 | 154 | 85.0 | | 51.4 | 77.1 |
| | | | | | 47.0 | 15.5 | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



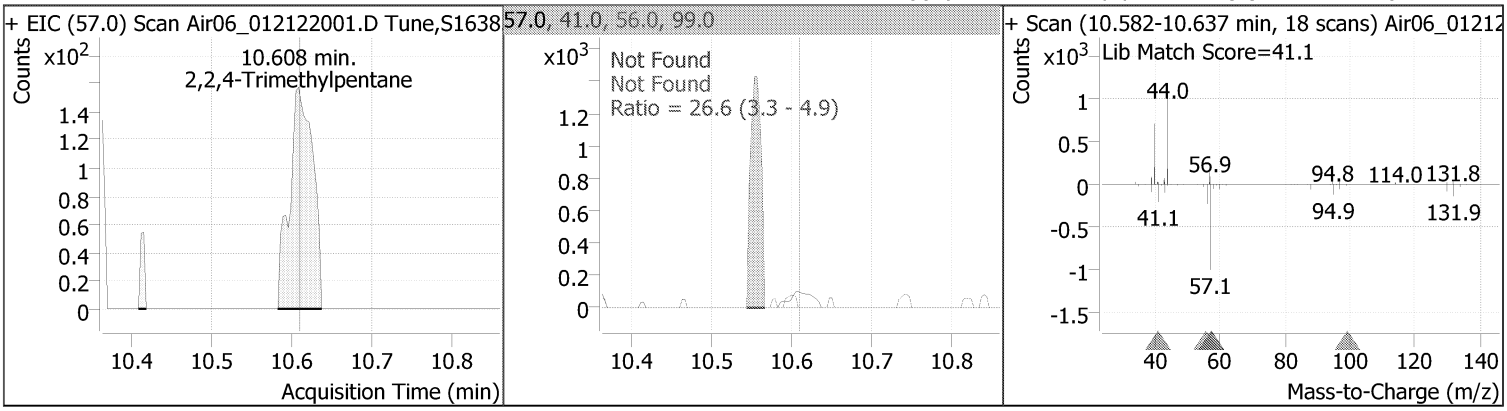

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0627 | 10.33 | -0.20 | 2248 | 58.0 | | 67.8 | 101.6 |
| | | | | | 43.0 | | 28.4 | 42.6 |



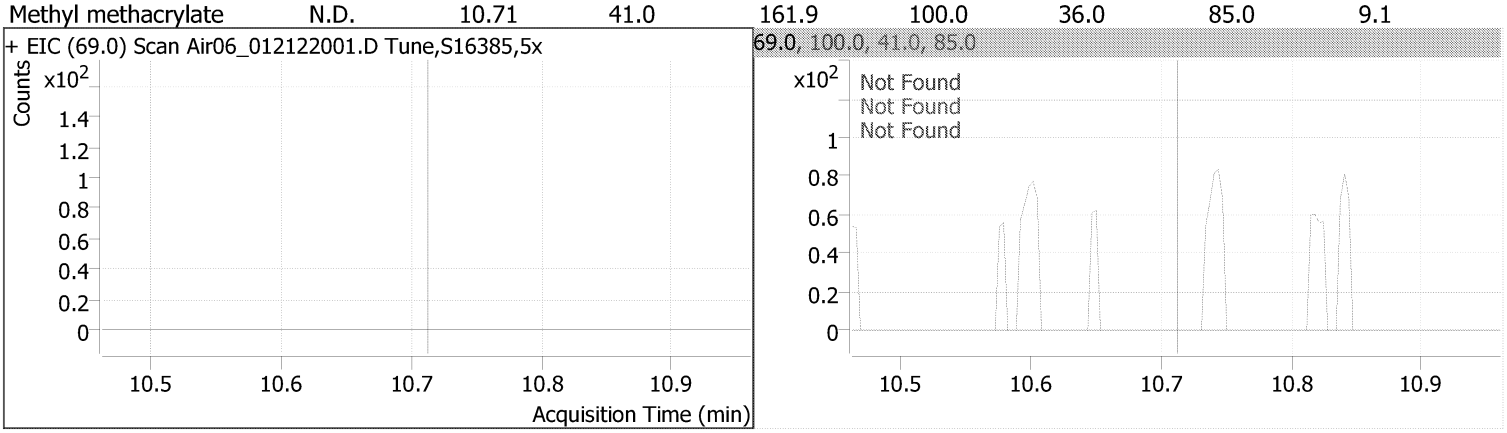
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0161 | 10.56 | 0.01 | 1123 | 95.0 | 110.3 | 88.5 | 132.8 |
| | | | | | 130.0 | 102.5 | 82.9 | 124.4 |
| | | | | | 97.0 | 76.9 | 57.6 | 86.4 |
| | | | | | 134.0 | 16.1 | 25.9 | 38.8 |



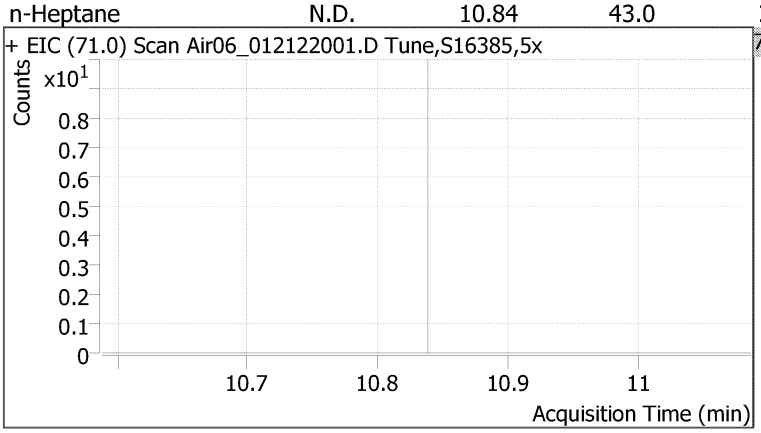

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0010 | 10.61 | 0.00 | 323 | 56.0 | | 25.1 | 37.7 |
| | | | | | 41.0 | | 22.2 | 33.3 |
| | | | | | 99.0 | 26.6 | 3.3 | 4.9 |

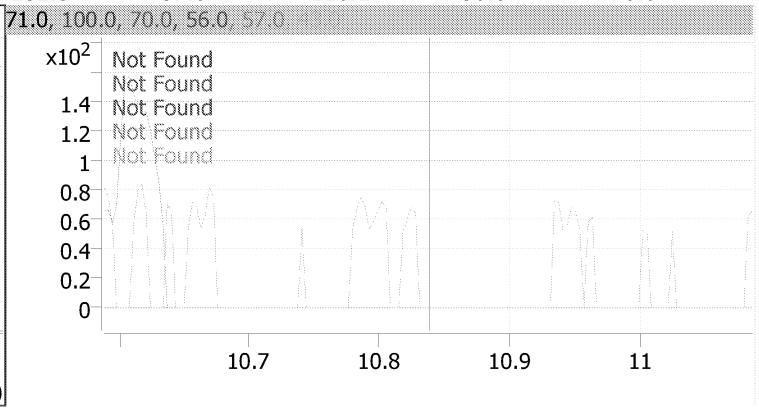



| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | N.D. | 10.71 | 41.0 | 161.9 | 100.0 | 36.0 | 85.0 | 9.1 |

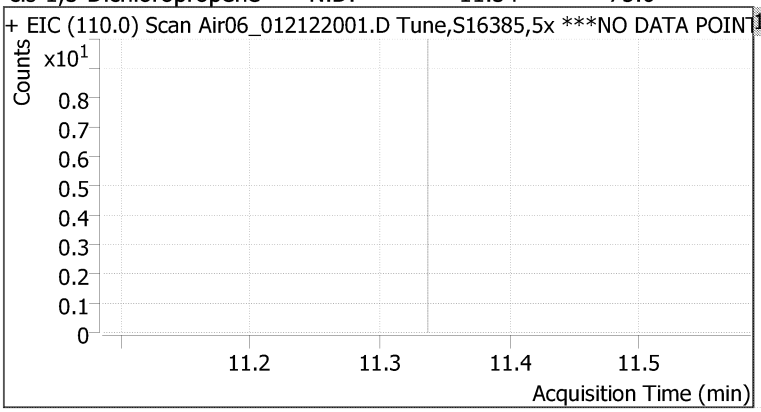


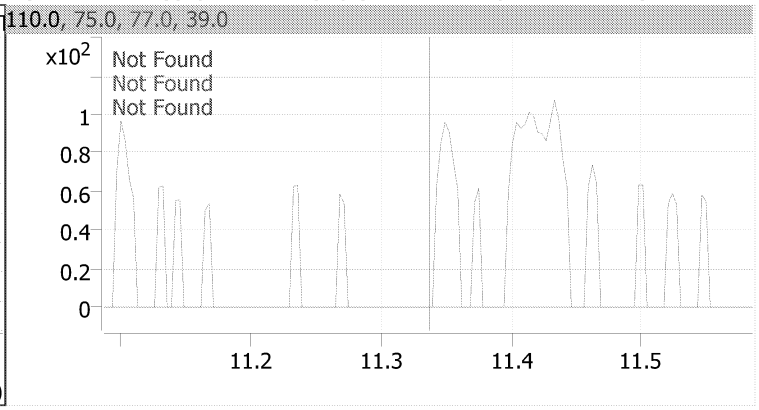
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | N.D. | 10.84 | 43.0 | 231.3 | 57.0 | 116.1 | 56.0 | 70.6 |



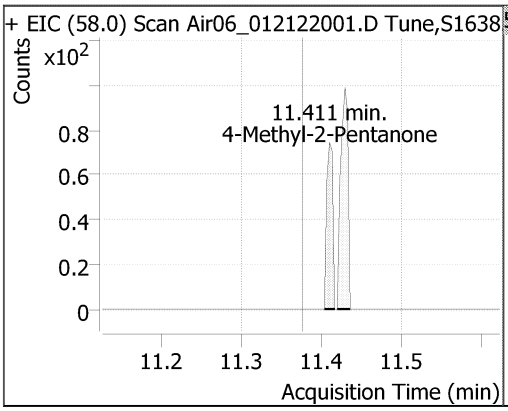



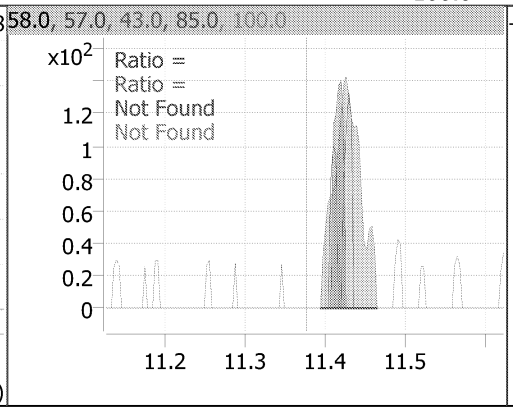

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | N.D. | 11.34 | 75.0 | 452.4 | 39.0 | 370.5 | 77.0 | 143.7 |

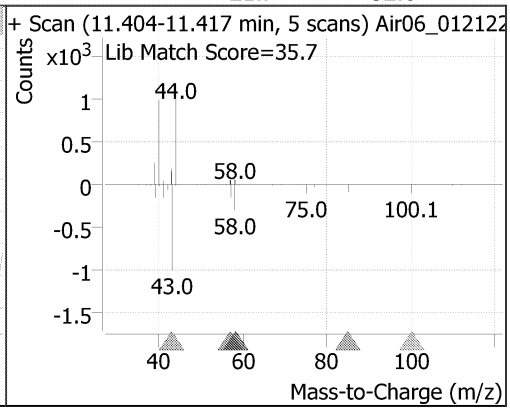


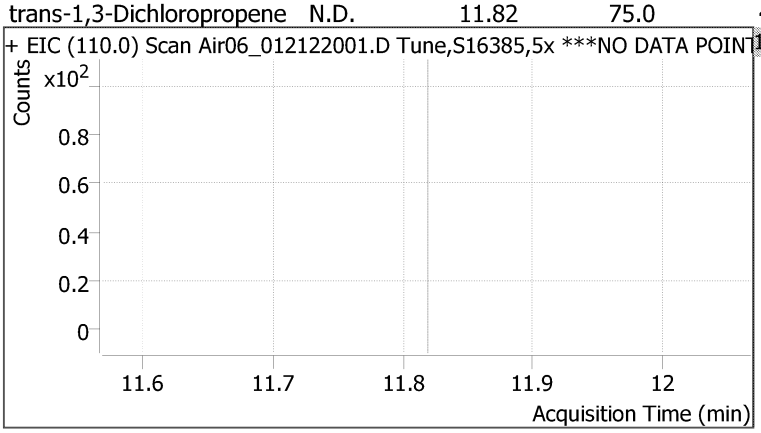

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0007 | 11.41 | 0.04 | 40 | 43.0 | | 221.6 | 332.3 |
| | | | | | 57.0 | | 51.6 | 77.4 |
| | | | | | 85.0 | | 31.1 | 46.7 |
| | | | | | 100.0 | | 21.7 | 32.6 |

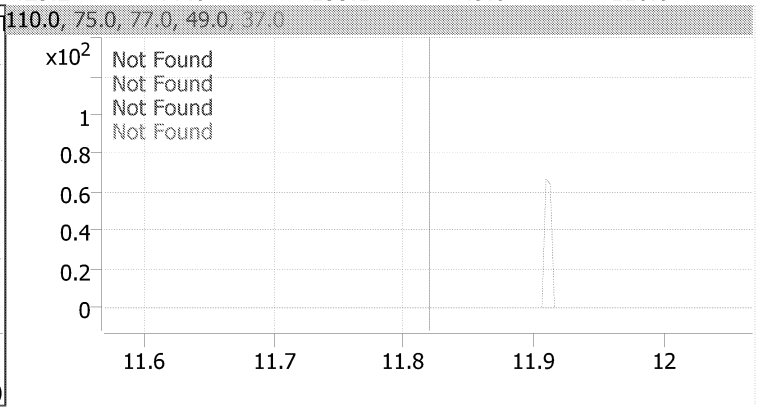


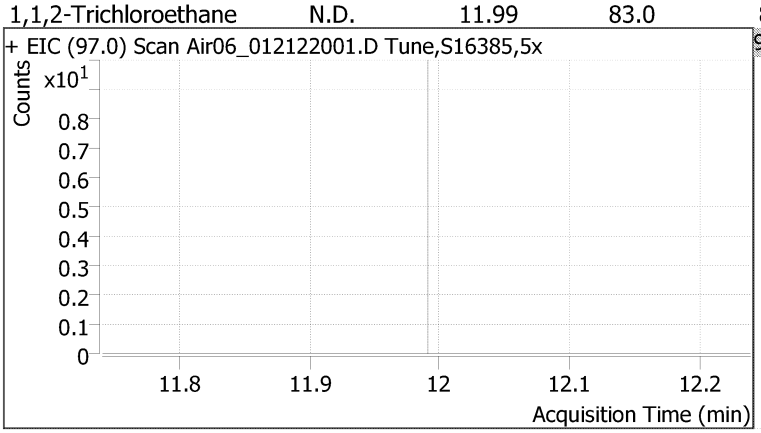



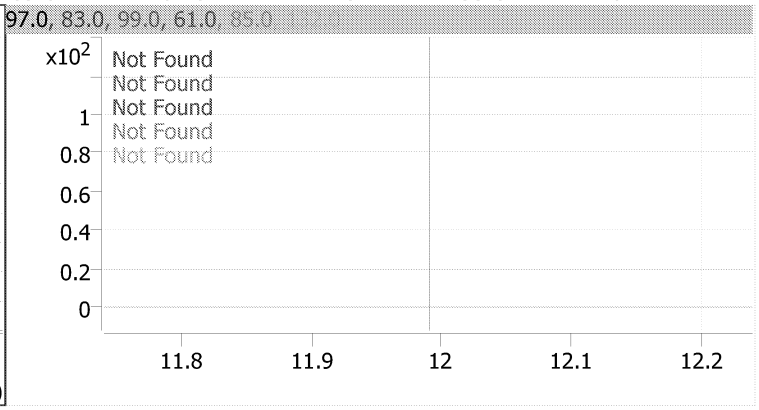
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | N.D. | 11.82 | 75.0 | 425.2 | 77.0 | 135.1 | 49.0 | 110.0 |



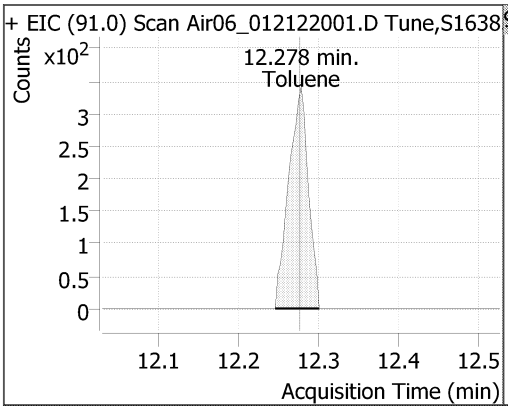



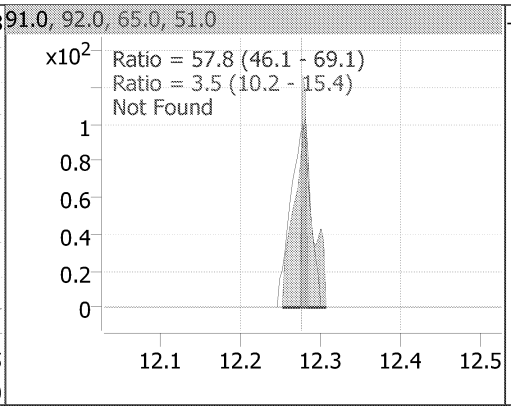

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | N.D. | 11.99 | 83.0 | 89.6 | 61.0 | 71.0 | 99.0 | 62.7 |

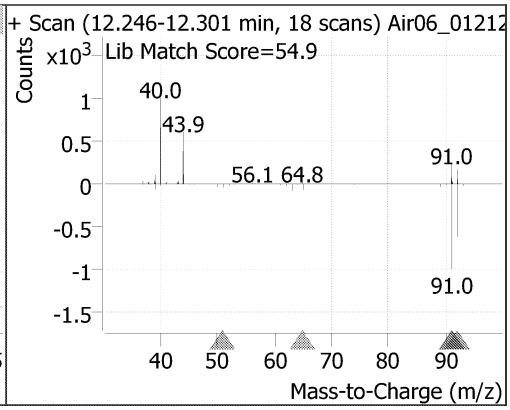


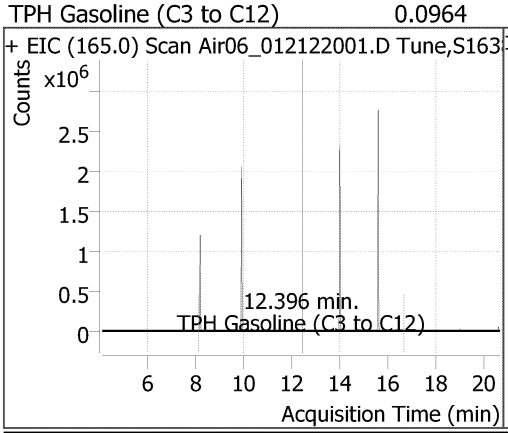

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0029 | 12.28 | 0.00 | 584 | 92.0 | 57.8 | 46.1 | 69.1 |
| | | | | | 65.0 | 3.5 | 10.2 | 15.4 |
| | | | | | 51.0 | | 7.0 | 10.5 |

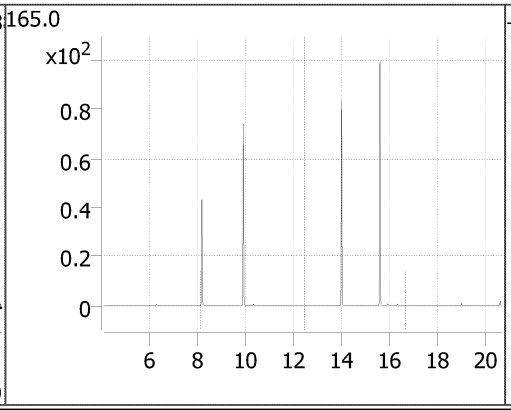


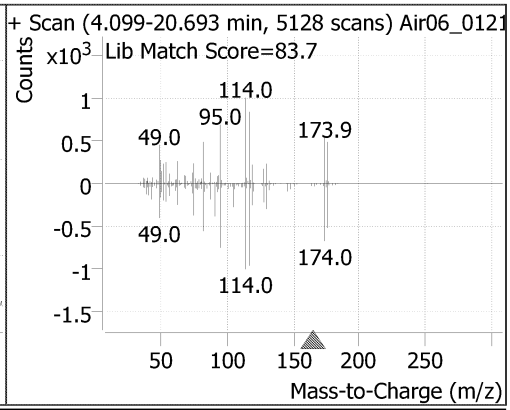



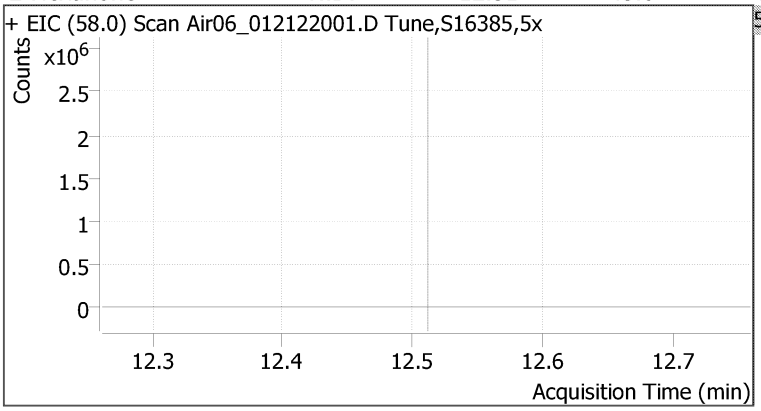

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 0.0964 | 12.40 | 0.00 | 1272402 | | | | |

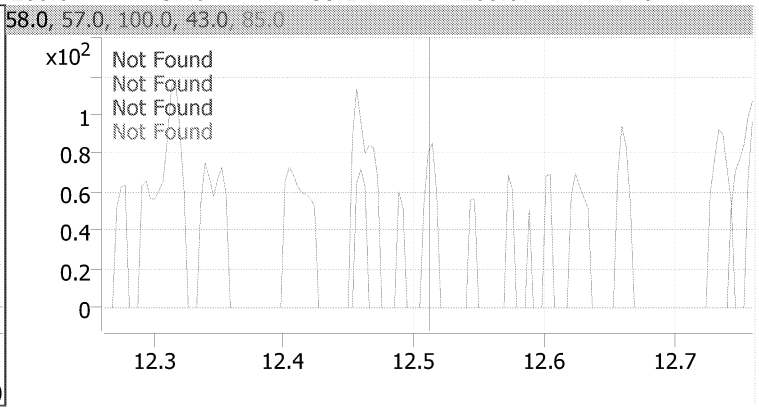


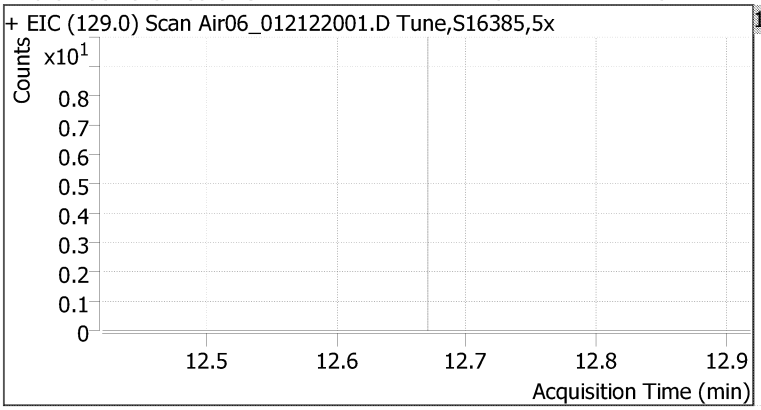



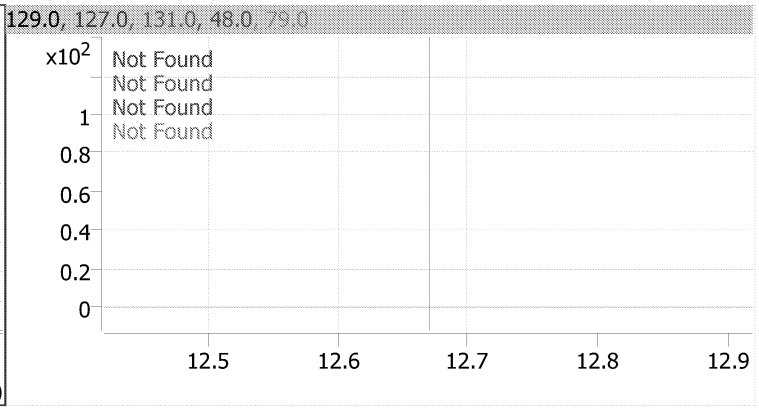
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | N.D. | 12.51 | 43.0 | 200.0 | 57.0 | 35.1 | 100.0 | 14.9 |



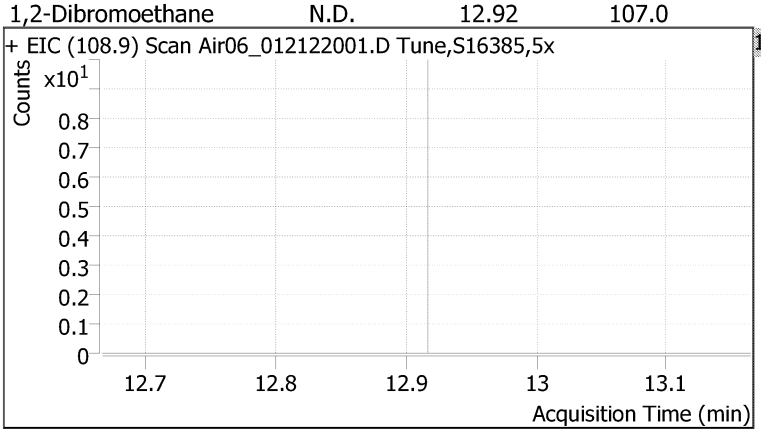



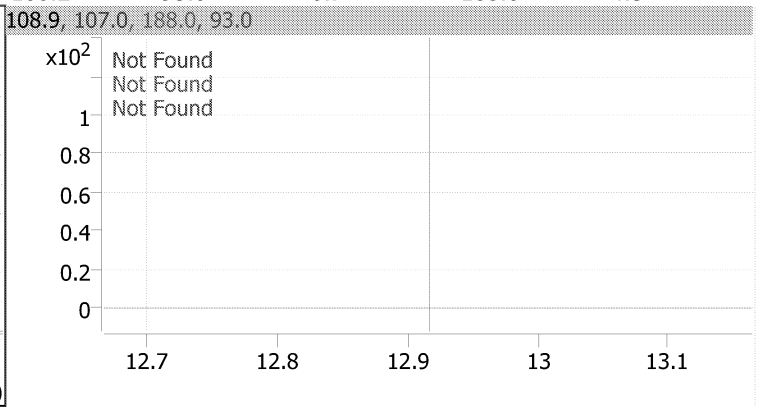

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | N.D. | 12.67 | 127.0 | 77.5 | 131.0 | 24.2 | 48.0 | 17.5 |



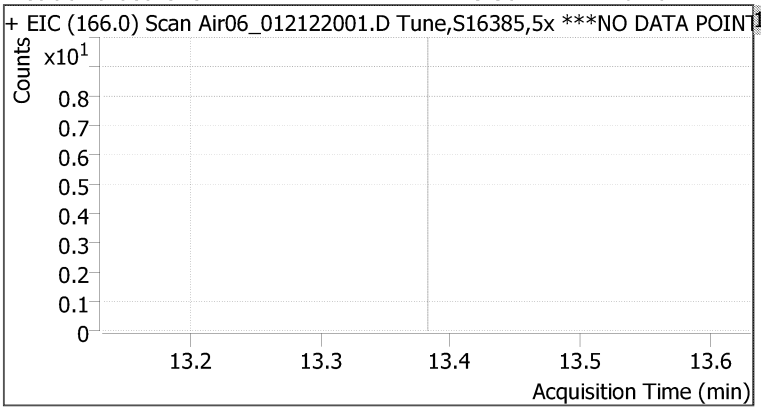



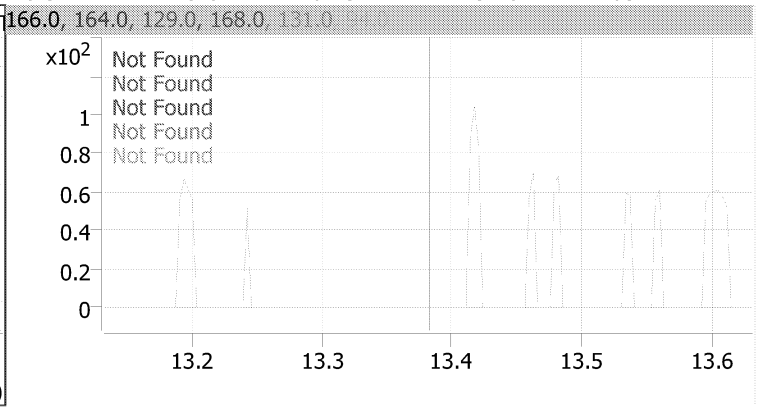

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | N.D. | 12.92 | 107.0 | 106.2 | 93.0 | 6.7 | 188.0 | 4.3 |



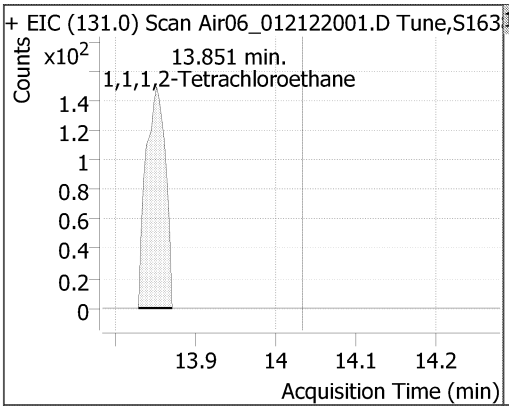



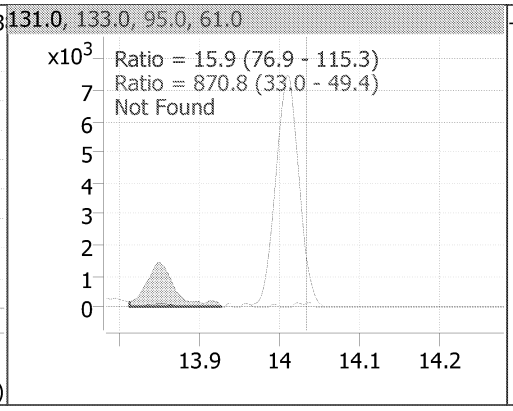

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | N.D. | 13.38 | 164.0 | 78.3 | 129.0 | 67.5 | 131.0 | 65.2 |

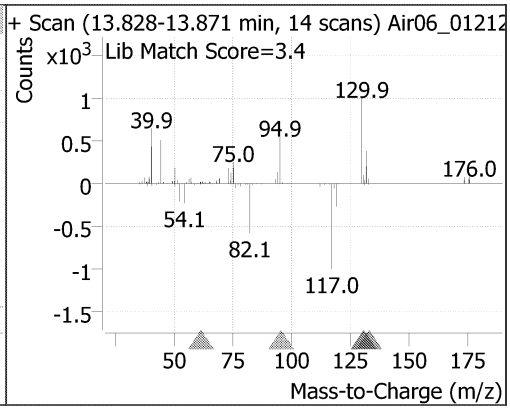


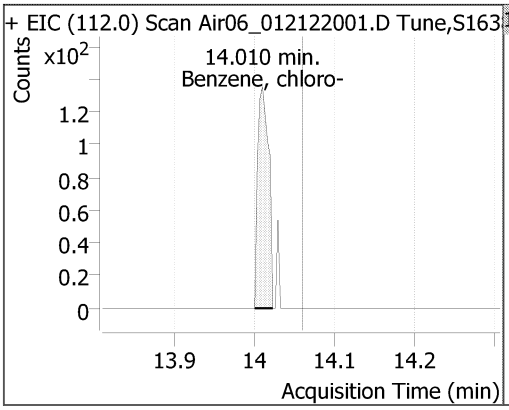
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0036 | 13.85 | -0.18 | 252 | 133.0 | 15.9 | 76.9 | 115.3 |
| | | | | | 95.0 | 870.8 | 33.0 | 49.4 |
| | | | | | 61.0 | | 25.4 | 38.1 |

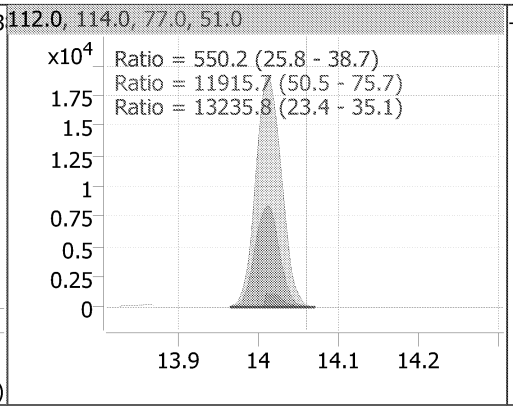


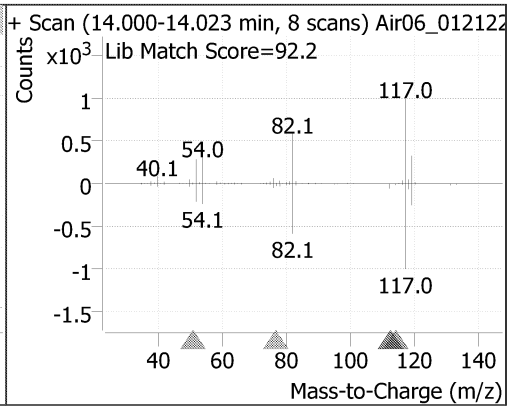



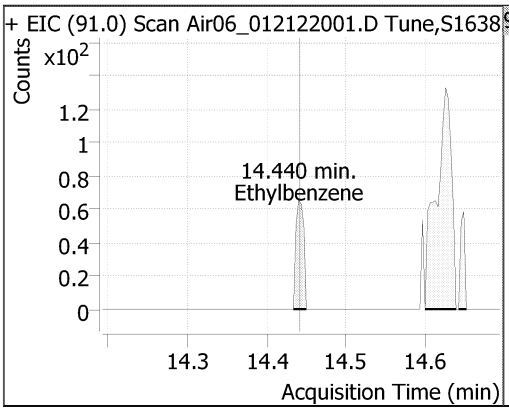

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0009 | 14.01 | -0.05 | 129 | 77.0 | 11915.7 | 50.5 | 75.7 |
| | | | | | 114.0 | 550.2 | 25.8 | 38.7 |
| | | | | | 51.0 | 13235.8 | 23.4 | 35.1 |

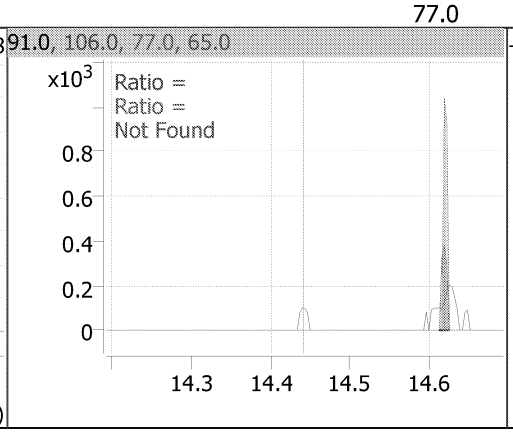


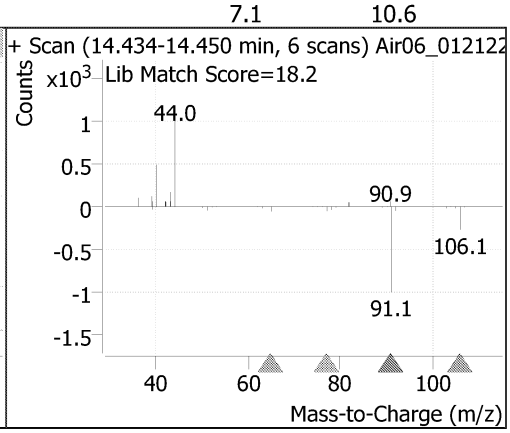



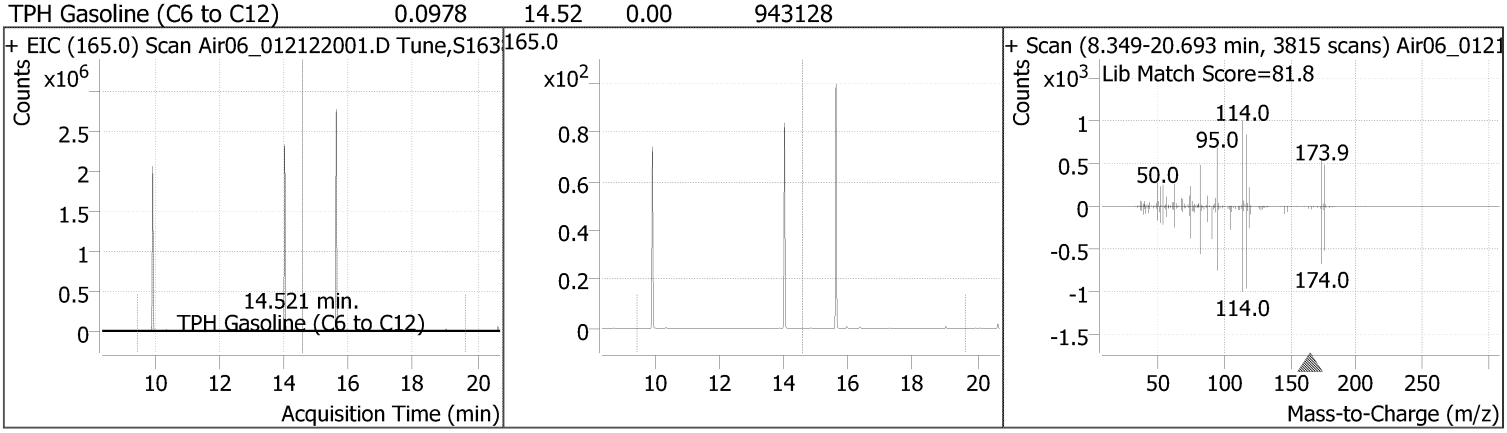

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0002 | 14.44 | -0.01 | 45 | 106.0 | | 24.2 | 36.3 |
| | | | | | 65.0 | | 7.8 | 11.8 |
| | | | | | 77.0 | | 7.1 | 10.6 |



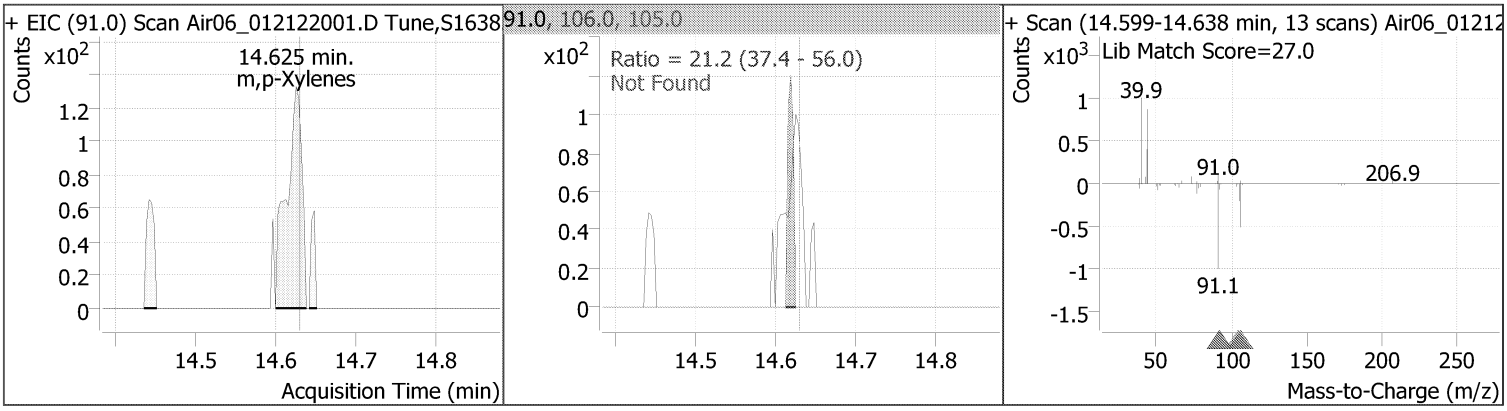



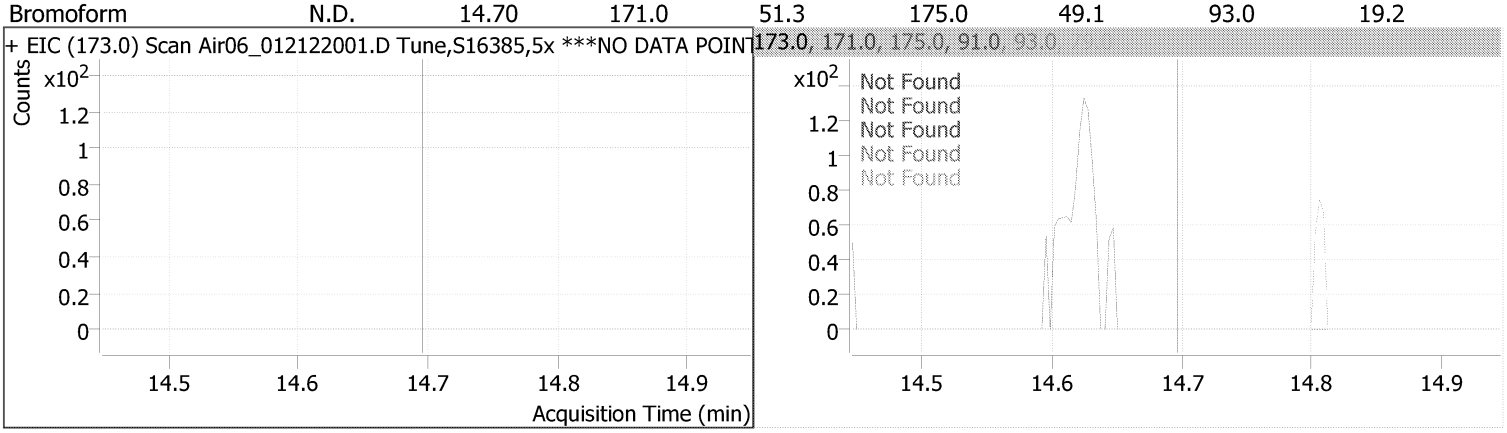
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 0.0978 | 14.52 | 0.00 | 943128 | | | | |



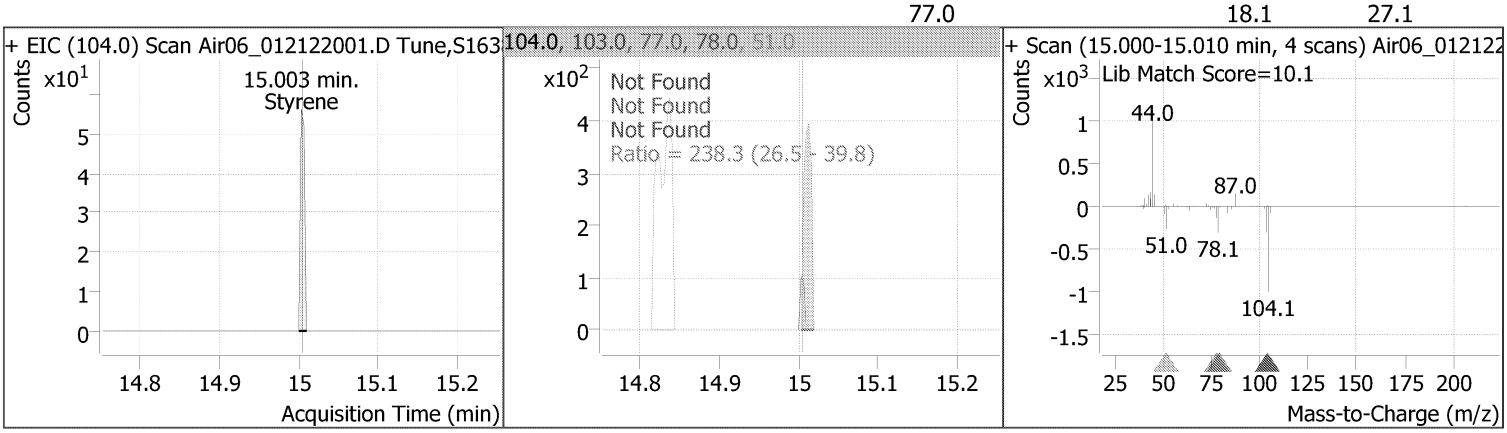

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.0010 | 14.62 | -0.01 | 180 | 106.0 | 21.2 | 37.4 | 56.0 |
| | | | | | 105.0 | | 17.8 | 26.7 |



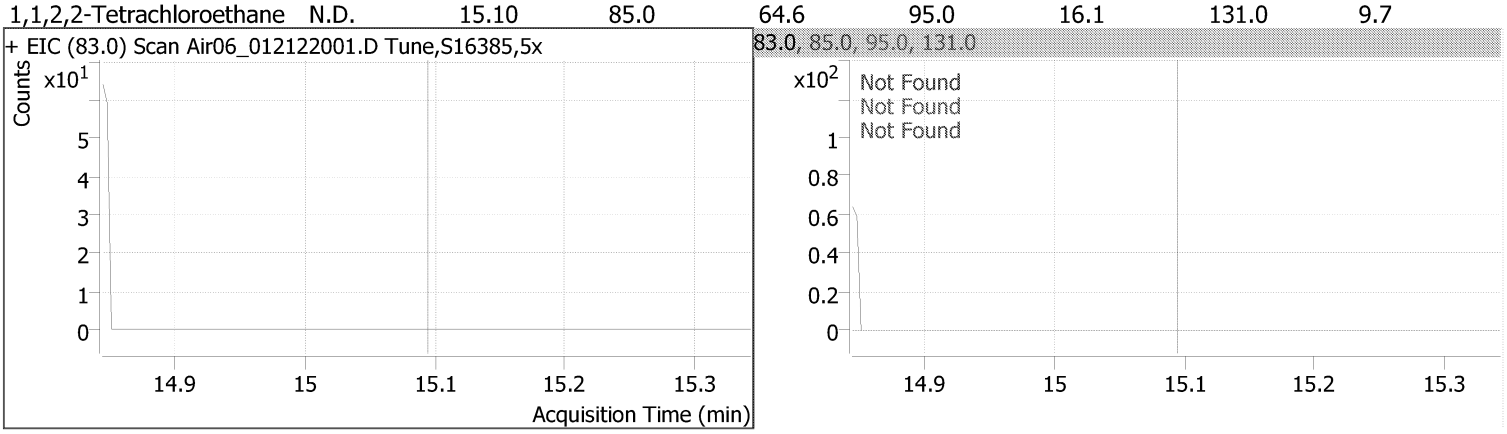

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromoform | N.D. | 14.70 | 171.0 | 51.3 | 175.0 | 49.1 | 93.0 | 19.2 |



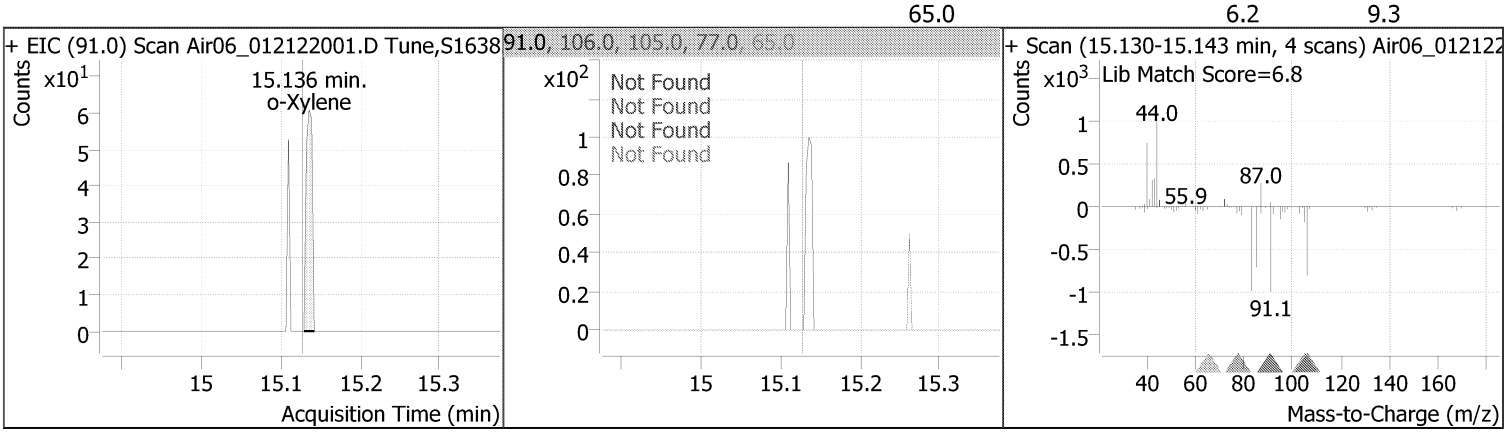
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.0001 | 15.00 | 0.00 | 21 | 103.0 | | 39.7 | 59.6 |
| | | | | | 78.0 | | 37.5 | 56.3 |
| | | | | | 51.0 | 238.3 | 26.5 | 39.8 |
| | | | | | 77.0 | | 18.1 | 27.1 |



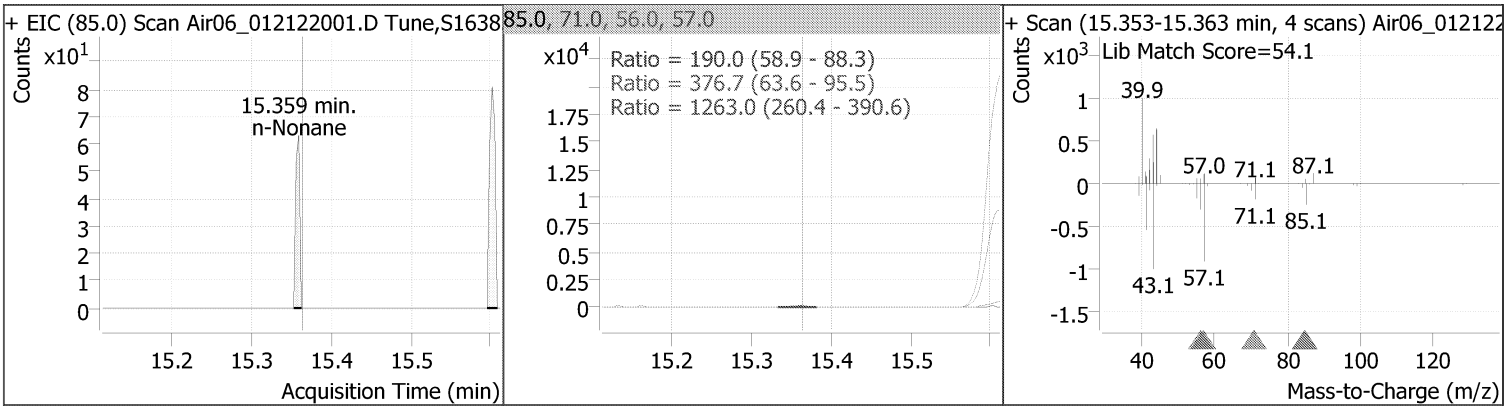

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | N.D. | 15.10 | 85.0 | 64.6 | 95.0 | 16.1 | 131.0 | 9.7 |



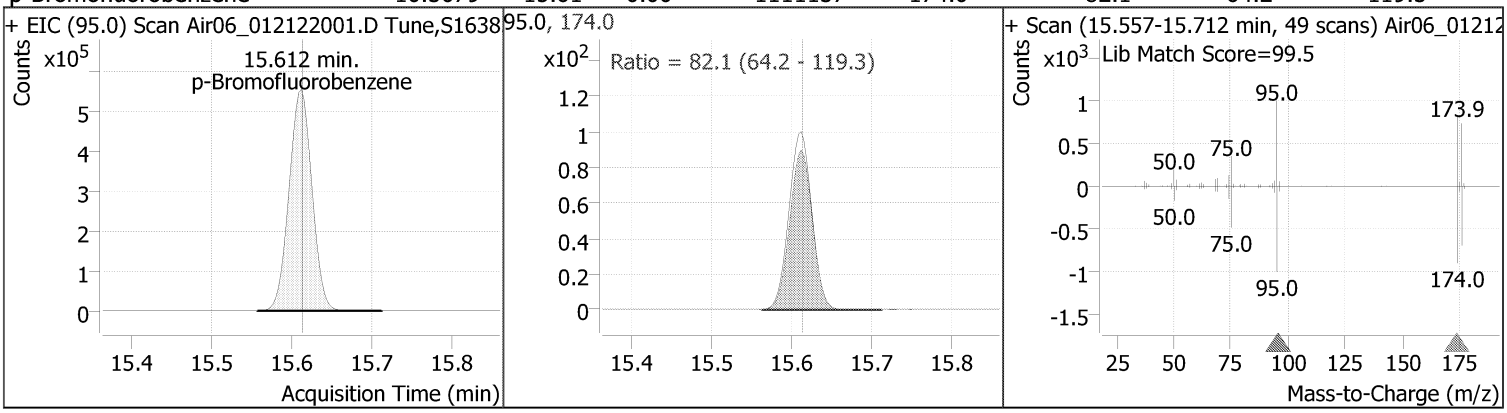

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.0002 | 15.14 | 0.01 | 33 | 106.0 | | 35.3 | 53.0 |
| | | | | | 105.0 | | 15.2 | 22.8 |
| | | | | | 77.0 | | 10.1 | 15.2 |
| | | | | | 65.0 | | 6.2 | 9.3 |



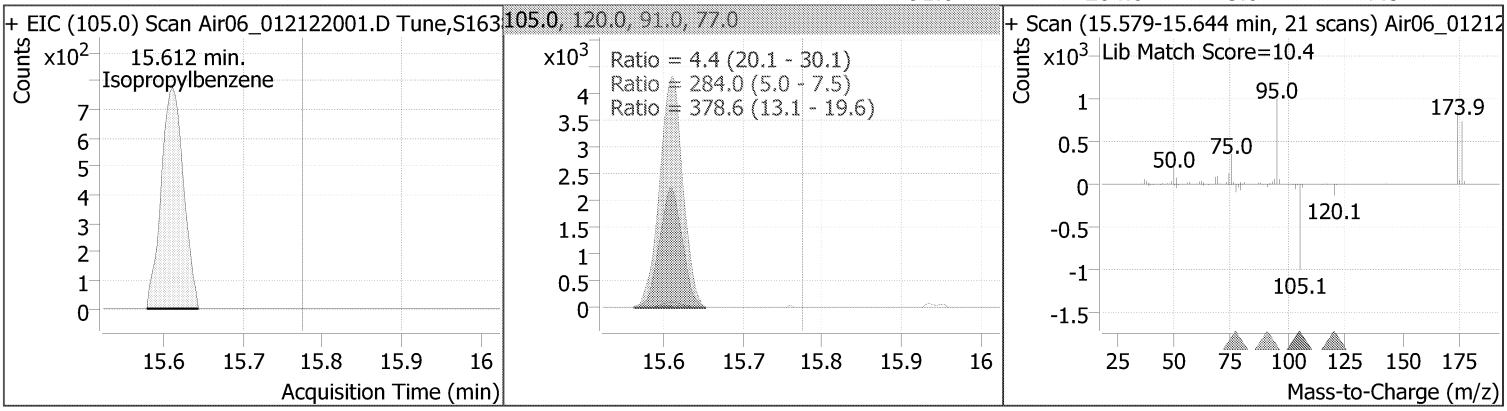
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.0005 | 15.36 | -0.01 | 23 | 57.0 | 1263.0 | 260.4 | 390.6 |
| | | | | | 56.0 | 376.7 | 63.6 | 95.5 |
| | | | | | 71.0 | 190.0 | 58.9 | 88.3 |



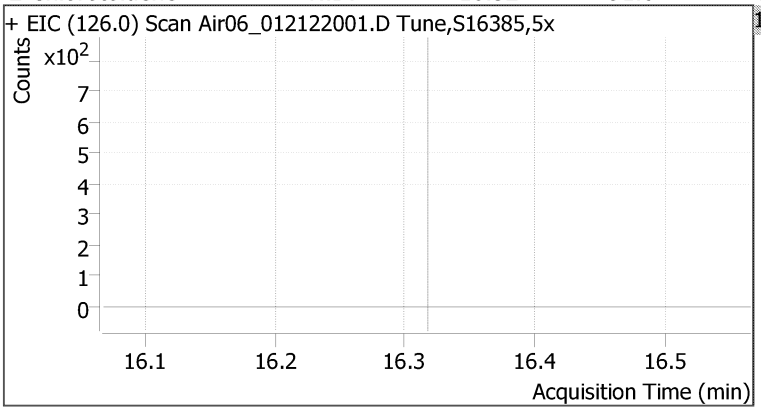

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.3079 | 15.61 | 0.00 | 1111137 | 174.0 | 82.1 | 64.2 | 119.3 |

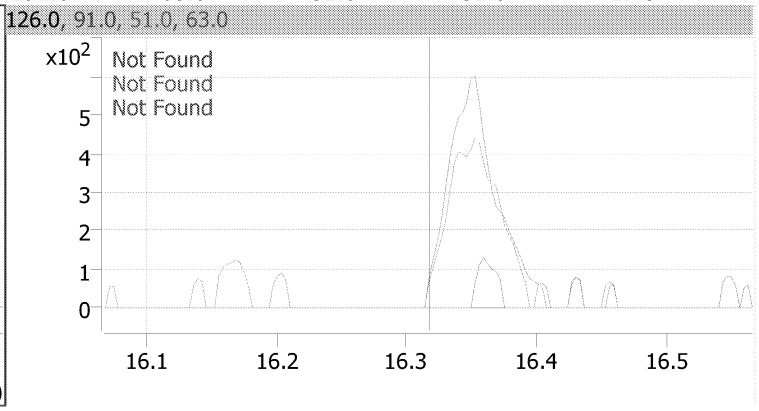



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0060 | 15.61 | -0.16 | 1517 | 120.0 | 4.4 | 20.1 | 30.1 |
| | | | | | 77.0 | 378.6 | 13.1 | 19.6 |
| | | | | | 91.0 | 284.0 | 5.0 | 7.5 |

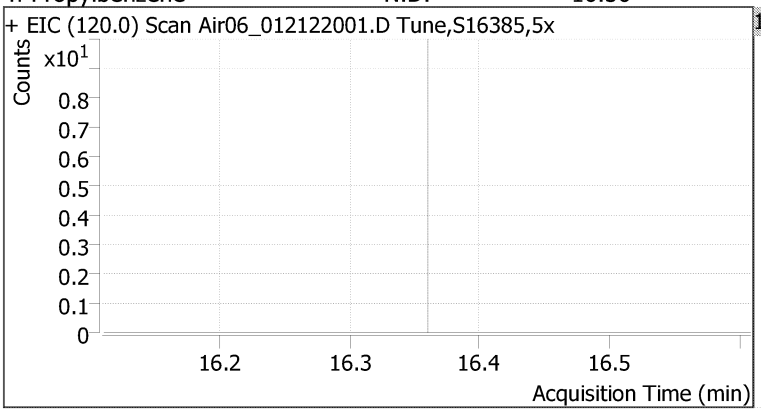


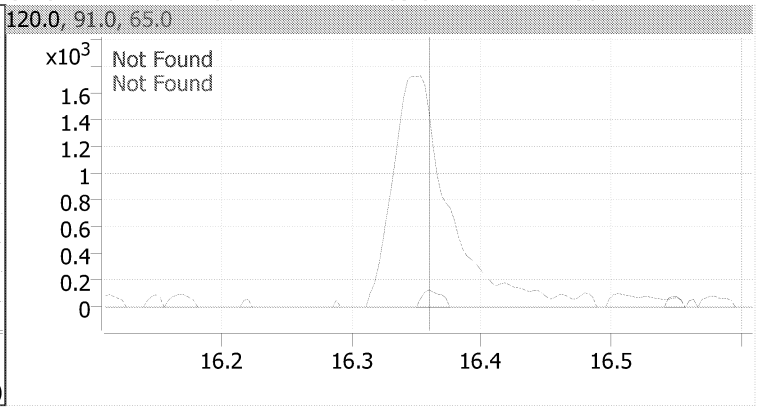
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | N.D. | 16.32 | 91.0 | 291.0 | 63.0 | 51.0 | 51.0 | 17.5 |



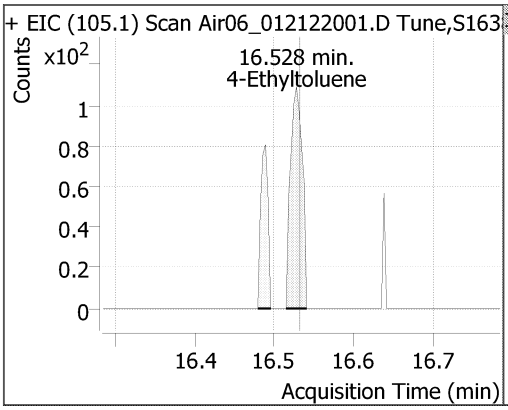



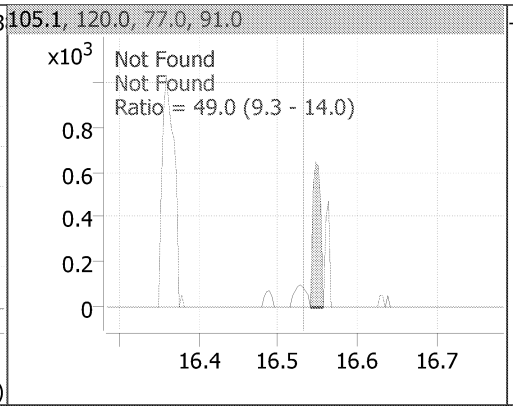

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| n-Propylbenzene | N.D. | 16.36 | 91.0 | 486.4 | 65.0 | 56.1 |

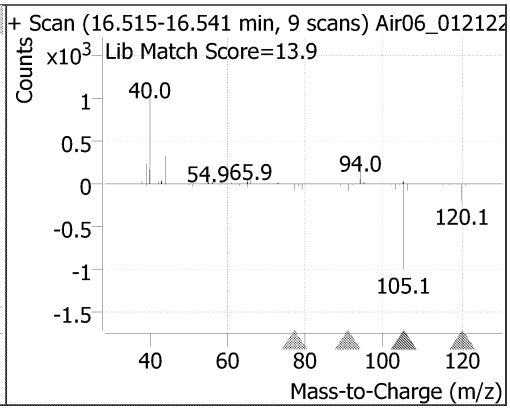


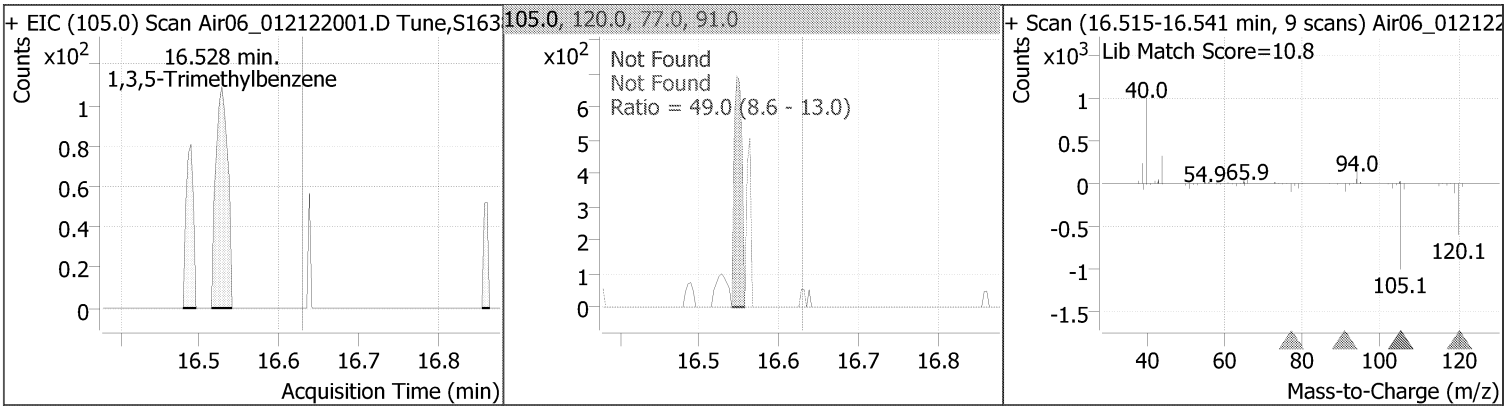

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0005 | 16.53 | -0.01 | 113 | 120.0 | | 22.7 | 34.1 |
| | | | | | 77.0 | | 9.6 | 14.4 |
| | | | | | 91.0 | 49.0 | 9.3 | 14.0 |



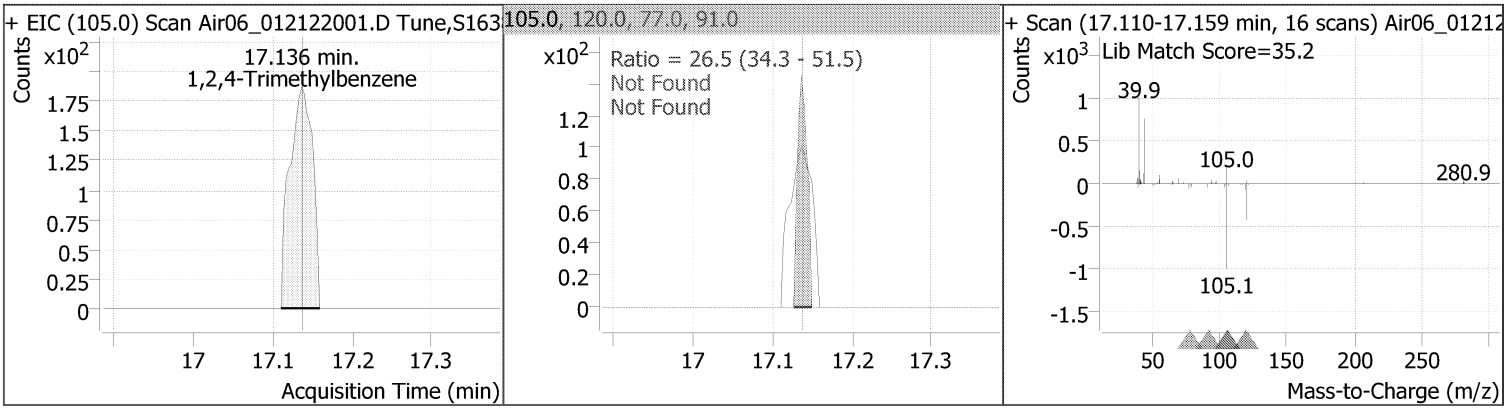



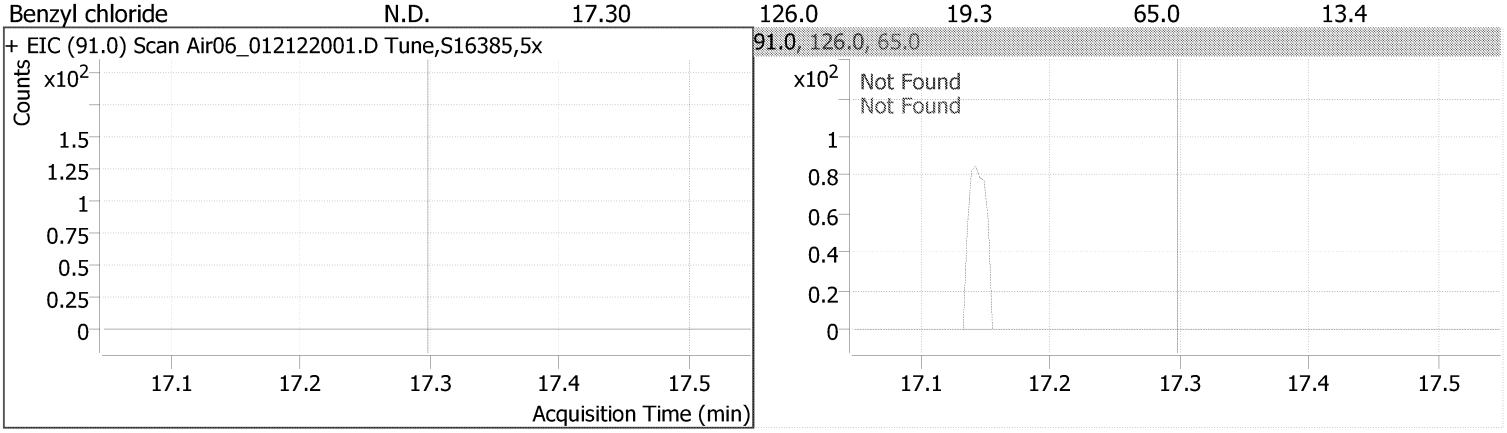
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.0005 | 16.53 | -0.10 | 113 | 120.0 | | 36.5 | 54.7 |
| | | | | | 77.0 | | 10.5 | 15.8 |
| | | | | | 91.0 | 49.0 | 8.6 | 13.0 |



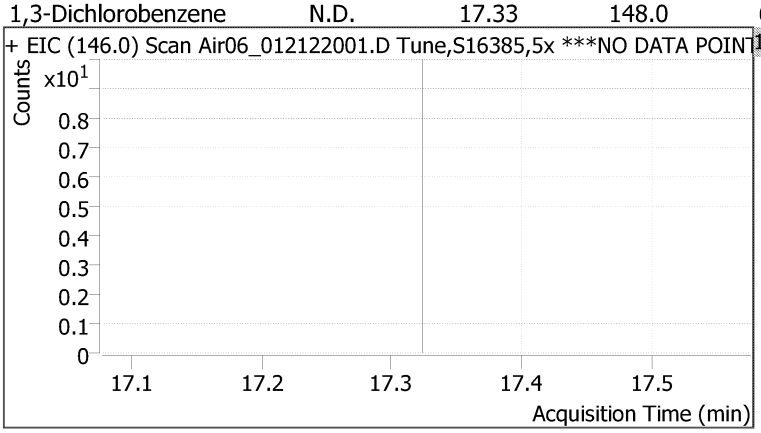

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.0017 | 17.14 | 0.00 | 376 | 120.0 | 26.5 | 34.3 | 51.5 |
| | | | | | 77.0 | | 10.3 | 15.4 |
| | | | | | 91.0 | | 8.6 | 12.9 |

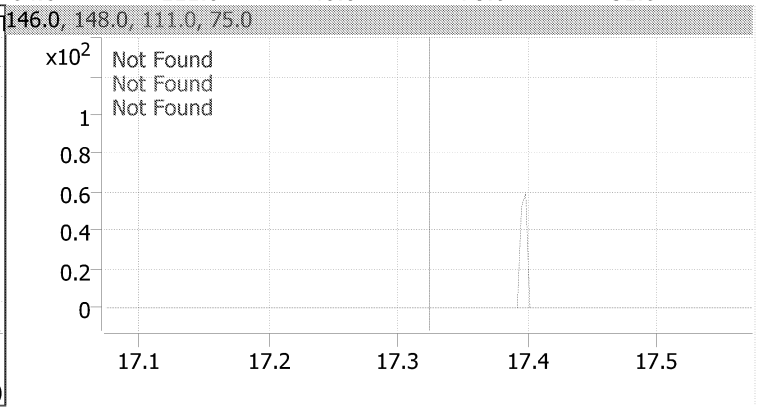



| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Benzyl chloride | N.D. | 17.30 | 126.0 | 19.3 | 65.0 | 13.4 |

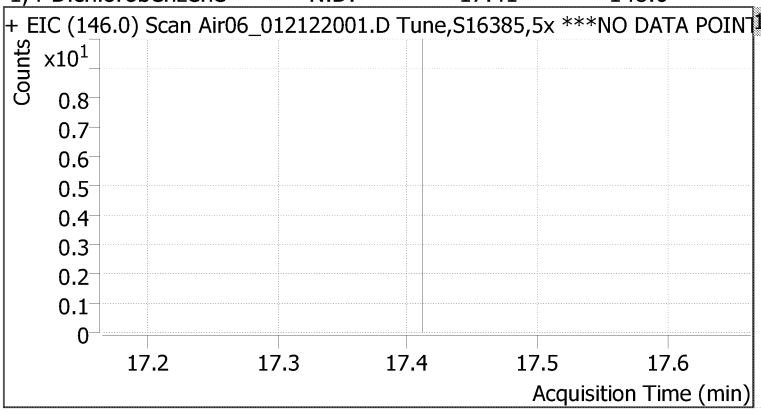


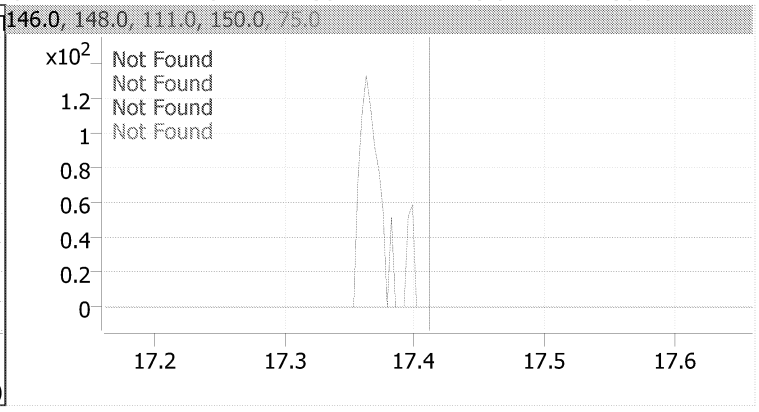
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | N.D. | 17.33 | 148.0 | 64.6 | 111.0 | 40.0 | 75.0 | 31.6 |



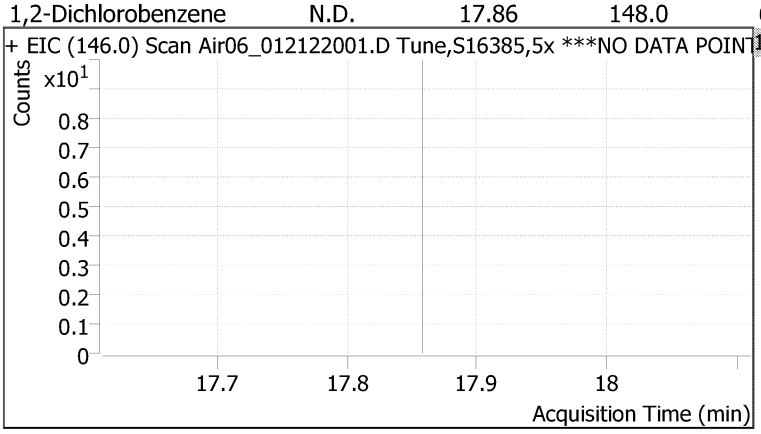



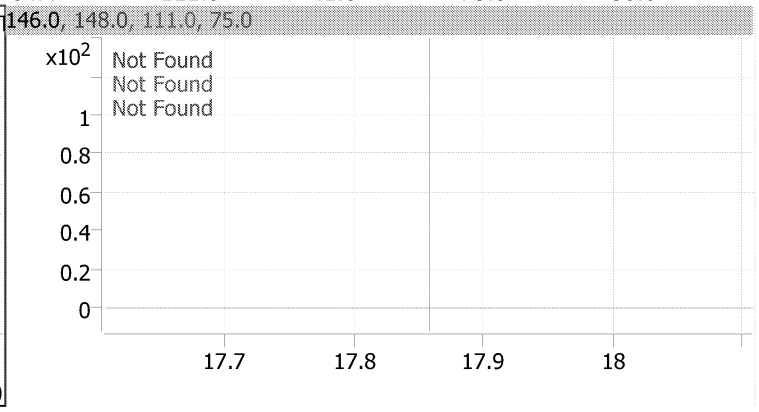

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | N.D. | 17.41 | 148.0 | 64.4 | 111.0 | 38.7 | 75.0 | 30.9 |



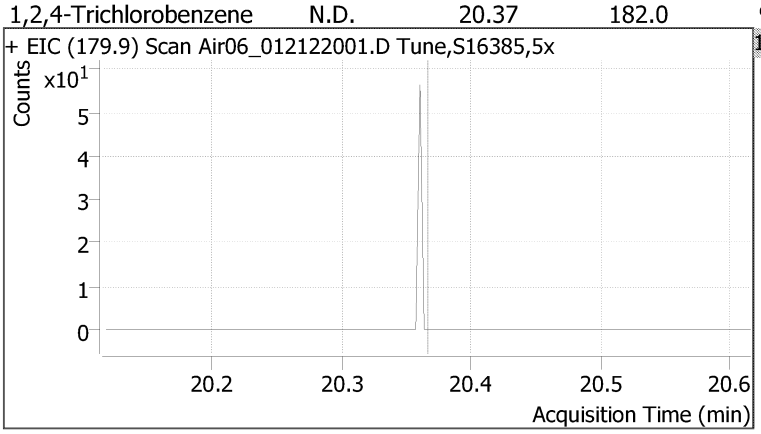



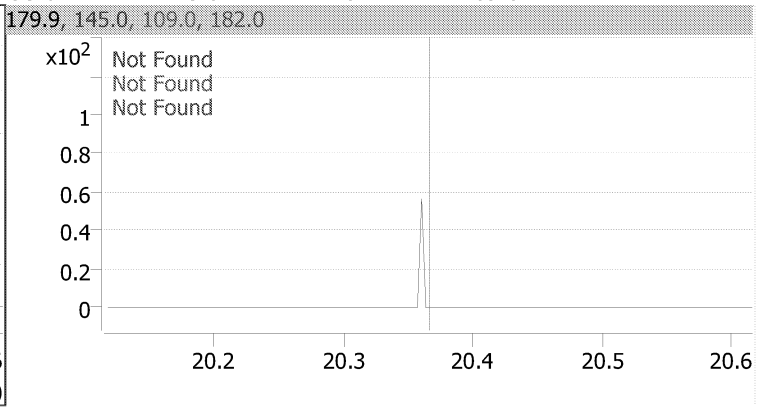

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | N.D. | 17.86 | 148.0 | 64.4 | 111.0 | 41.6 | 75.0 | 30.6 |



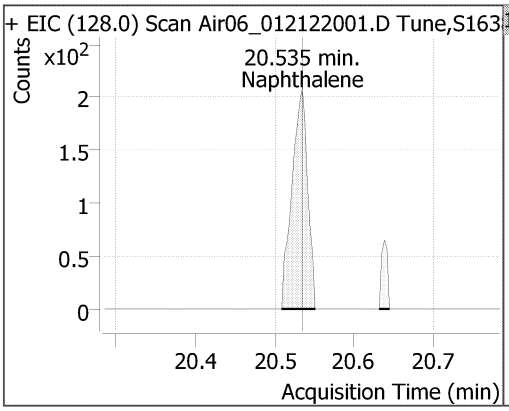

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | N.D. | 20.37 | 182.0 | 95.6 | 145.0 | 27.8 | 109.0 | 22.7 |

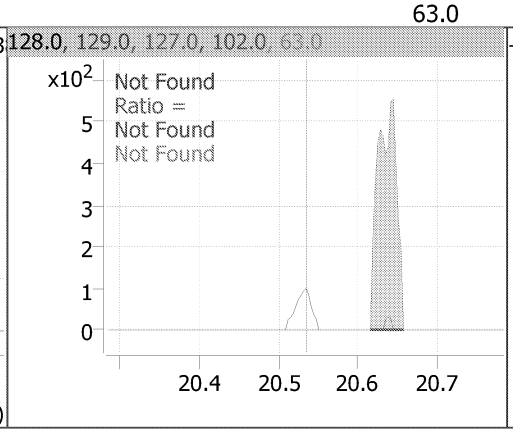


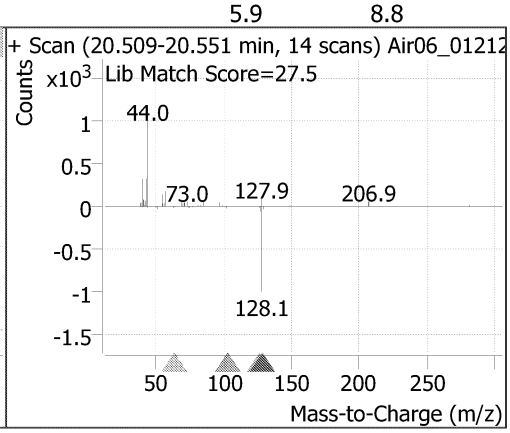



# Quantitation Results Report (Not Reviewed)

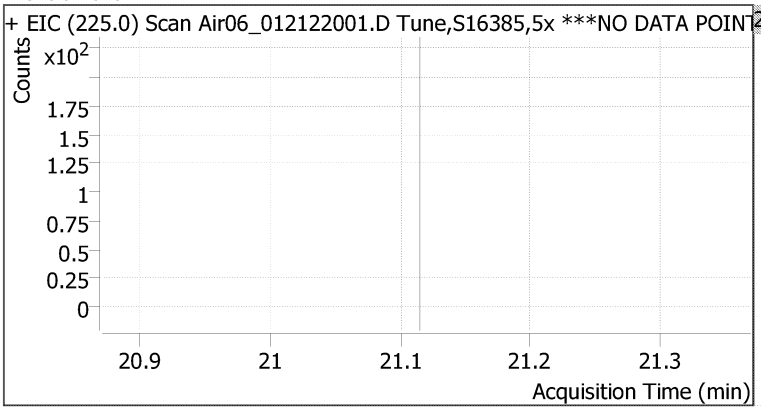
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.0012 | 20.53 | 0.00 | 285 | 127.0 | | 10.7 | 16.1 |
| | | | | | 129.0 | | 8.8 | 13.2 |
| | | | | | 102.0 | | 7.6 | 11.5 |
| | | | | | 63.0 | | 5.9 | 8.8 |

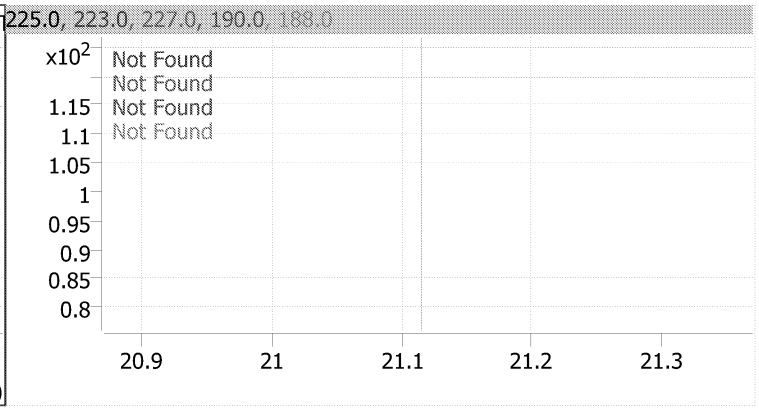


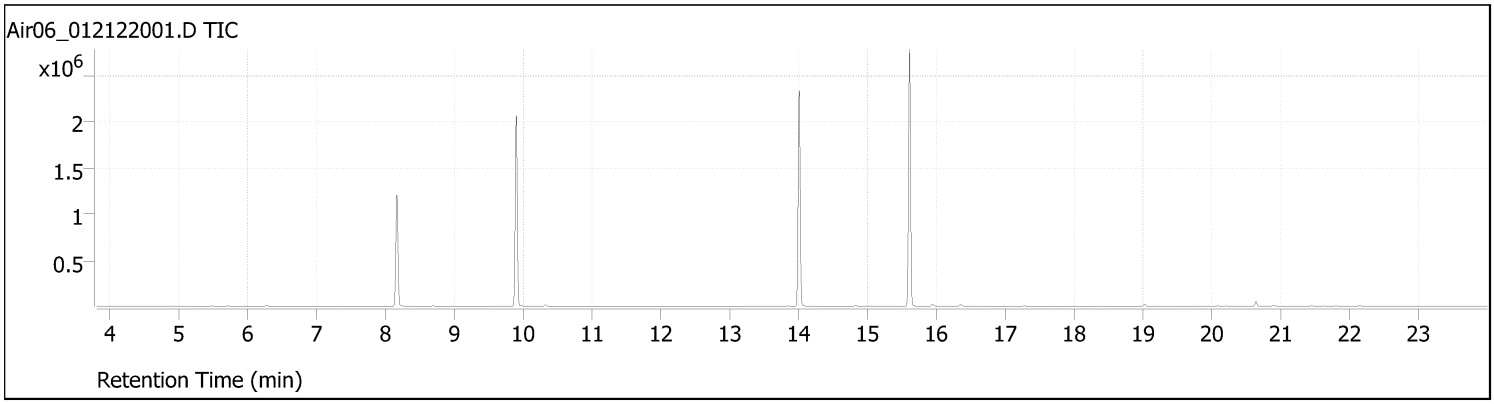

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | N.D. | 21.12 | 227.0 | 63.9 | 223.0 | 63.1 | 190.0 | 43.6 |

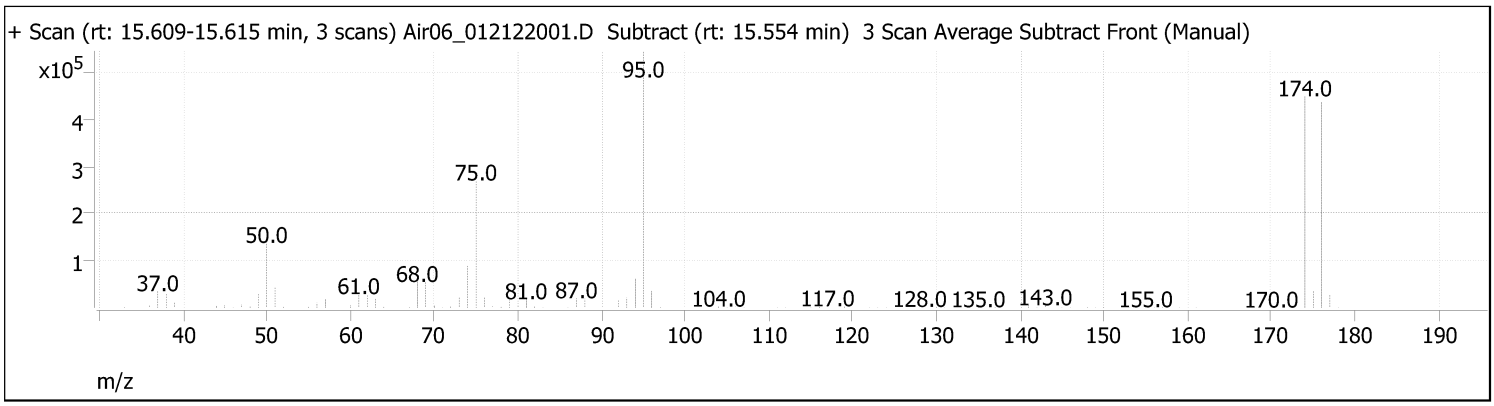


# Tune Evaluation Report

| | |
|---|---|
| Data Path: | D:\MassHunter\GCMS\1\data\2022\220121\Air06_012122001.D |
| Acq on: | 1/21/2022 10:08:28 AM |
| Operator: | DJL/LJB/ZNZ |
| Sample: | Tune,S16385,5x |
| Inst Name: | Air-MS-06 |
| ALS Vial: | 5 |
| Method: | |




| Target Mass | Rel. To Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 25.3 | 137930 | Pass |
| 75 | 95 | 30 | 60 | 49.6 | 270274 | Pass |
| 95 | 95 | 100 | 100 | 100.0 | 544676 | Pass |
| 96 | 95 | 5 | 9 | 6.5 | 35324 | Pass |
| 173 | 174 | 0 | 2 | 0.0 | 0 | Pass |
| 174 | 95 | 50 | 100 | 82.3 | 448476 | Pass |
| 175 | 174 | 5 | 9 | 7.8 | 34847 | Pass |
| 176 | 174 | 95 | 101 | 97.2 | 435973 | Pass |
| 177 | 176 | 5 | 9 | 6.6 | 28968 | Pass |

ENTHALPY BFB TUNE FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-06 Run Name : TUNE IDF : 1.0
Seqnum : 372032312001 File : air06_012222001 Time : 22-JAN-2022 10:32

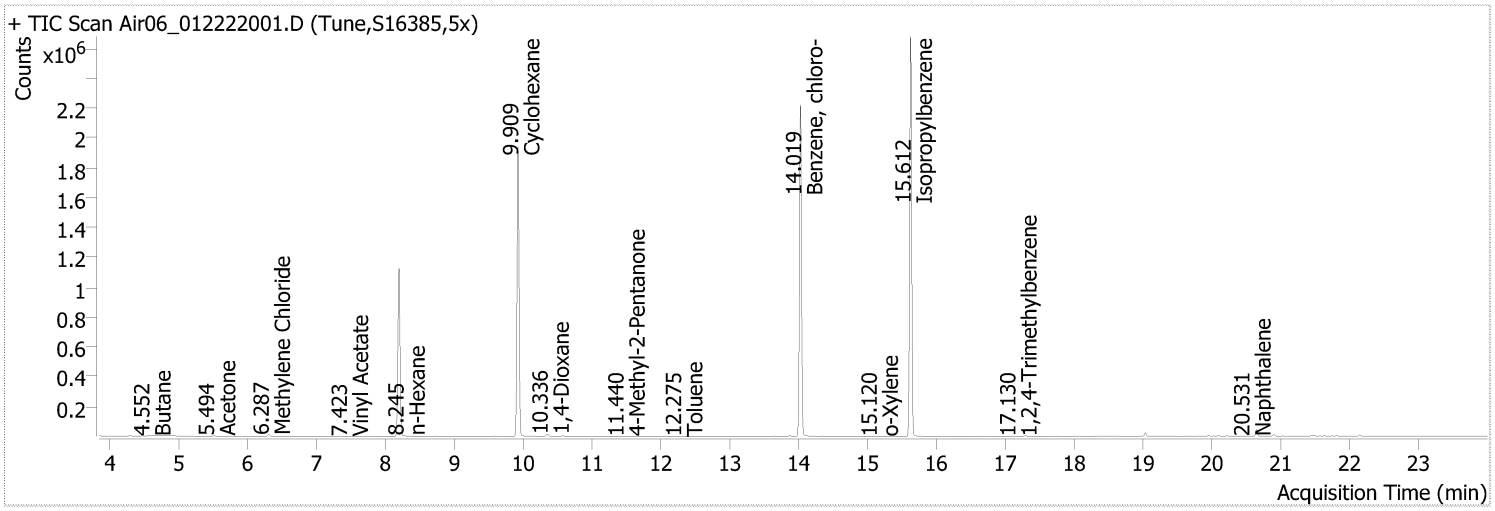
Standards: S16385 (5X)

| Mass | Ion Abundance Criteria | Abundance | % Relative Abundance | Q |
|---|---|---|---|---|
| 50 | 8% - 40% of mass 95 | 132897 | 26.13 | |
| 75 | 30% - 66% of mass 95 | 262793 | 51.66 | |
| 95 | | 508681 | 100.00 | |
| 96 | 5% - 9% of mass 95 | 34395 | 6.76 | |
| 173 | < 2% of mass 174 | 0 | 0.00 | |
| 174 | 50% - 120% of mass 95 | 422134 | 82.99 | |
| 175 | 4% - 9% of mass 174 | 32902 | 7.79 | |
| 176 | 93% - 101% of mass 174 | 408059 | 96.67 | |
| 177 | 5% - 9% of mass 176 | 26598 | 6.52 | |

Analyst: ZNZ Date: 01/22/22 Reviewer: SLL Date: 01/24/22

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012222001.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/22/2022 10:32:49 AM |
| Sample Name | Tune,S16385,5x | Instrument | Air-MS-06 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 220122.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |




| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 375141 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1546729 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 768118 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1035472 | 10.2514 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 102.51% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.947 | 41.0 | 612 | 0.0166 | nL/L | # | 61 |
| T Freon 12 | 0.000 | | 0 | N.D. | | | |
| T Chloromethane | 4.138 | 50.0 | 73 | 0.0016 | nL/L | | 89 |
| T Freon 114 | 0.000 | | 0 | N.D. | | | |
| T Vinyl Chloride | 0.000 | | 0 | N.D. | | | |
| T 1,3-Butadiene | 0.000 | | 0 | N.D. | | | |
| T Butane | 4.552 | 43.0 | 563 | 0.0074 | nL/L | # | 88 |
| T Bromomethane | 0.000 | | 0 | N.D. | | | |
| T Chloroethane | 0.000 | | 0 | N.D. | | | |
| T Ethanol | 5.028 | 45.0 | 1256 | 0.0555 | nL/L | # | 76 |
| T Vinyl bromide | 0.000 | | 0 | N.D. | | | |
| T Acrolein | 5.351 | 56.0 | 49 | 0.0024 | nL/L | # | 67 |
| T Acetone | 5.494 | 58.0 | 1236 | 0.0524 | nL/L | # | 81 |
| T Trichloromonofluoromethane | 0.000 | | 0 | N.D. | | | |
| T Isopropanol (IPA) | 5.727 | 45.0 | 1381 | 0.0164 | nL/L | | 64 |
| T n-Pentane | 5.953 | 43.0 | 487 | 0.0052 | nL/L | # | 86 |
| T 1,1-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Tert-butyl alcohol (TBA) | 6.329 | 59.0 | 134 | 0.0014 | nL/L | # | 1 |
| T Methylene Chloride | 6.287 | 84.0 | 4881 | 0.1176 | nL/L | | 98 |
| T 3-Chloropropene | 0.000 | | 0 | N.D. | | | |
| T Freon 113 | 0.000 | | 0 | N.D. | | | |
| T Carbon Disulfide | 0.000 | | 0 | N.D. | | | |

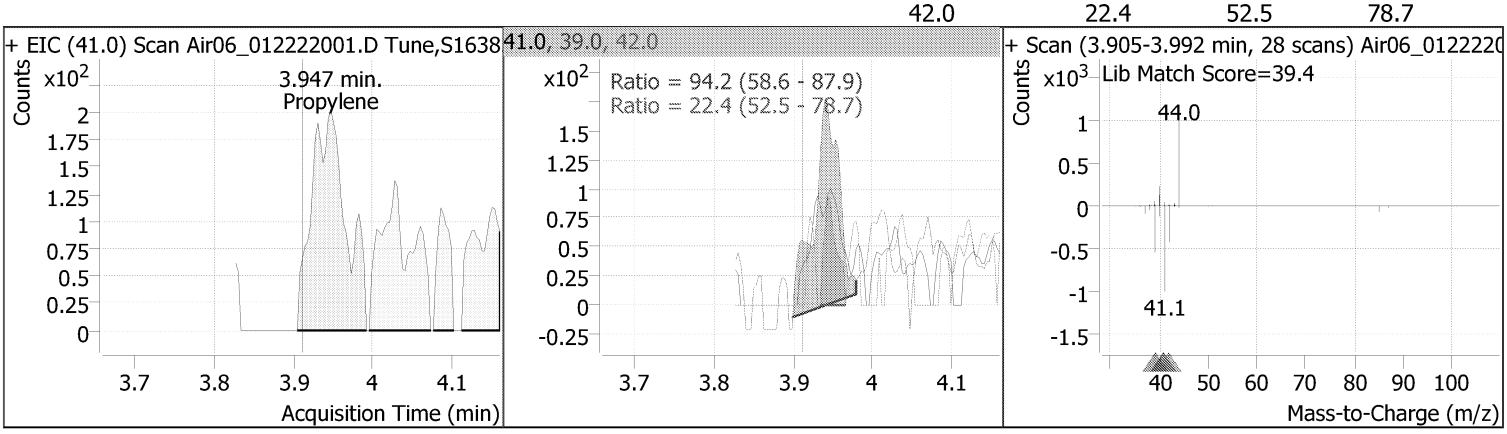
| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T 1,1-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T MTBE | 0.000 | | 0 | N.D. | | | |
| T Vinyl Acetate | 7.423 | 43.0 | 454 | 0.0031 | nL/L | # | 72 |
| T 2-Butanone | 7.688 | 43.0 | 463 | 0.0041 | nL/L | | 61 |
| T cis-1,2-Dichloroethene | 0.000 | | 0 | N.D. | | | |
| T Ethyl Acetate | 0.000 | | 0 | N.D. | | | |
| T n-Hexane | 8.245 | 57.0 | 1977 | 0.0240 | nL/L | | 88 |
| T Chloroform | 8.300 | 83.0 | 32 | 0.0003 | nL/L | | 26 |
| T Tetrahydrofuran | 8.698 | 72.0 | 91 | 0.0044 | nL/L | # | 1 |
| T 1,2-Dichloroethane | 0.000 | | 0 | N.D. | | | |
| T 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Benzene | 9.601 | 78.0 | 160 | 0.0012 | nL/L | | 54 |
| T Carbon Tetrachloride | 9.834 | 117.0 | 21 | 0.0002 | nL/L | | 23 |
| T Cyclohexane | 9.909 | 84.0 | 1744 | 0.0312 | nL/L | # | 1 |
| T 1,2-Dichloropropane | 10.333 | 63.0 | 2717 | 0.0429 | nL/L | # | 43 |
| T Methane, bromodichloro- | 10.339 | 83.0 | 90 | 0.0009 | nL/L | | 32 |
| T 1,4-Dioxane | 10.336 | 88.0 | 2408 | 0.0728 | nL/L | | 17 |
| T Trichloroethene | 10.549 | 132.0 | 915 | 0.0142 | nL/L | | 87 |
| T 2,2,4-Trimethylpentane | 10.608 | 57.0 | 130 | 0.0005 | nL/L | | 48 |
| T Methyl methacrylate | 0.000 | | 0 | N.D. | | | |
| T n-Heptane | 0.000 | | 0 | N.D. | | | |
| T cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 4-Methyl-2-Pentanone | 11.440 | 58.0 | 57 | 0.0010 | nL/L | # | 1 |
| T trans-1,3-Dichloropropene | 0.000 | | 0 | N.D. | | | |
| T 1,1,2-Trichloroethane | 0.000 | | 0 | N.D. | | | |
| T Toluene | 12.275 | 91.0 | 480 | 0.0026 | nL/L | # | 82 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 940329 | 0.0760 | nL/L | | 100 |
| T 2-Hexanone | 0.000 | | 0 | N.D. | | | |
| T Dibromochloromethane | 0.000 | | 0 | N.D. | | | |
| T 1,2-Dibromoethane | 0.000 | | 0 | N.D. | | | |
| T Tetrachloroethene | 0.000 | | 0 | N.D. | | | |
| T 1,1,1,2-Tetrachloroethane | 13.854 | 131.0 | 192 | 0.0029 | nL/L | # | 1 |
| T Benzene, chloro- | 14.019 | 112.0 | 225 | 0.0017 | nL/L | # | 1 |
| T Ethylbenzene | 14.443 | 91.0 | 60 | 0.0003 | nL/L | # | 47 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 651541 | 0.0721 | nL/L | | 100 |
| T m,p-Xylenes | 14.618 | 91.0 | 212 | 0.0013 | nL/L | # | 54 |
| T Bromoform | 0.000 | | 0 | N.D. | | | |
| T Styrene | 0.000 | | 0 | N.D. | | | |
| T 1,1,2,2-Tetrachloroethane | 0.000 | | 0 | N.D. | | | |
| T o-Xylene | 15.120 | 91.0 | 49 | 0.0003 | nL/L | | 47 |
| T n-Nonane | 15.583 | 85.0 | 24 | 0.0006 | nL/L | | 1 |
| T Isopropylbenzene | 15.612 | 105.0 | 1672 | 0.0071 | nL/L | # | 1 |
| T 2-Chlorotoluene | 0.000 | | 0 | N.D. | | | |
| T n-Propylbenzene | 0.000 | | 0 | N.D. | | | |
| T 4-Ethyltoluene | 16.531 | 105.1 | 120 | 0.0005 | nL/L | # | 46 |
| T 1,3,5-Trimethylbenzene | 16.625 | 105.0 | 135 | 0.0007 | nL/L | | 44 |
| T 1,2,4-Trimethylbenzene | 17.130 | 105.0 | 431 | 0.0021 | nL/L | # | 77 |
| T Benzyl chloride | 0.000 | | 0 | N.D. | | | |
| T 1,3-Dichlorobenzene | 17.415 | 146.0 | 106 | 0.0008 | nL/L | # | 52 |
| T 1,4-Dichlorobenzene | 17.415 | 146.0 | 106 | 0.0008 | nL/L | # | 19 |
| T 1,2-Dichlorobenzene | 0.000 | | 0 | N.D. | | | |
| T 1,2,4-Trichlorobenzene | 20.370 | 179.9 | 76 | 0.0007 | nL/L | # | 37 |
| T Naphthalene | 20.531 | 128.0 | 656 | 0.0029 | nL/L | # | 74 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.117 | 225.0 | 24 | 0.0002 | nL/L | | 25 |

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

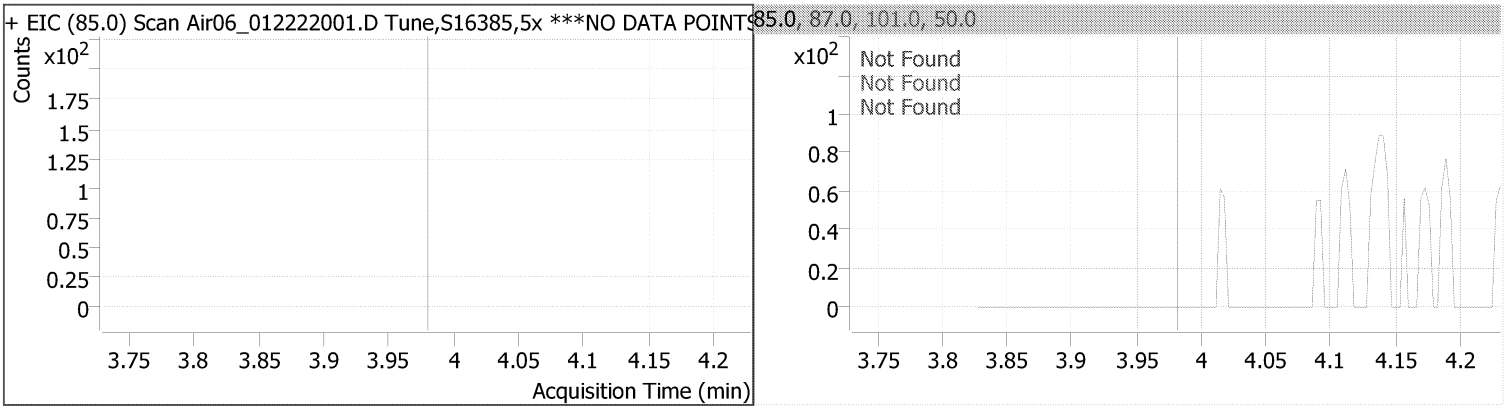
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

# Quantitation Results Report (Not Reviewed)

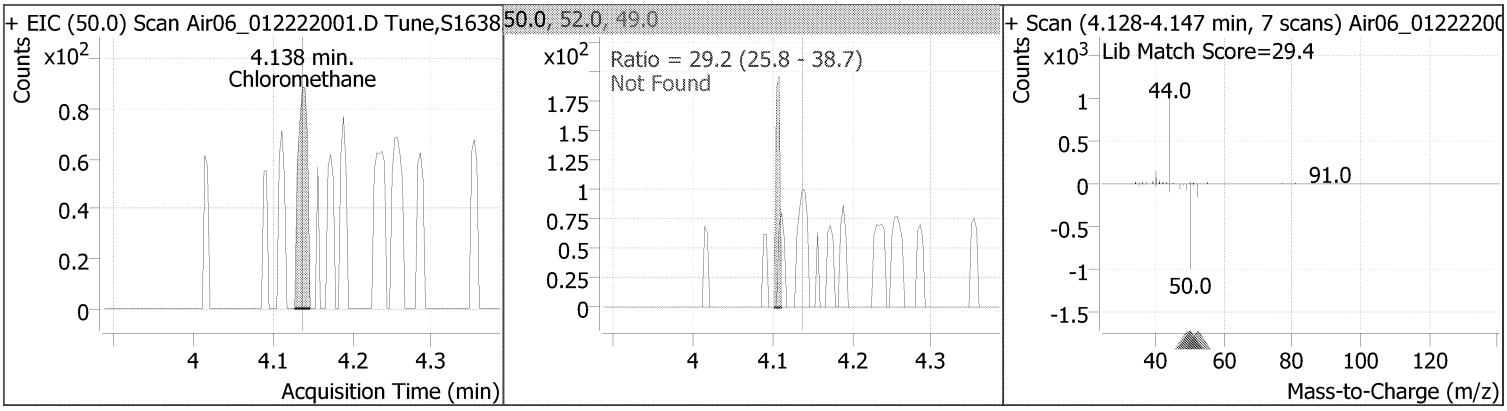
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.0166 | 3.95 | 0.04 | 612 | 39.0 | 94.2 | 58.6 | 87.9 |
| | | | | | 42.0 | 22.4 | 52.5 | 78.7 |



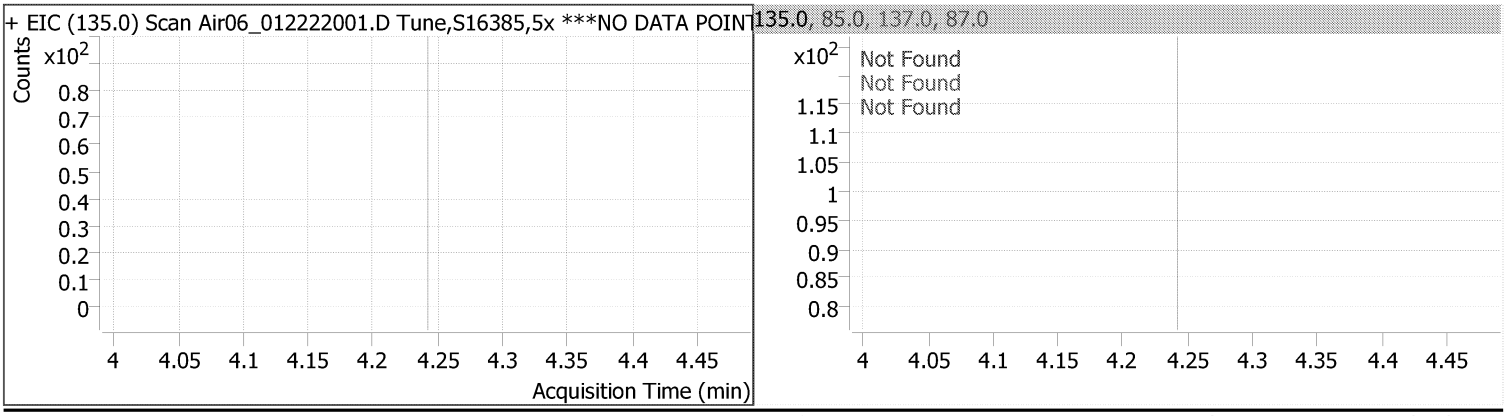

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | N.D. | 3.98 | 87.0 | 32.5 | 50.0 | 14.0 | 101.0 | 9.4 |



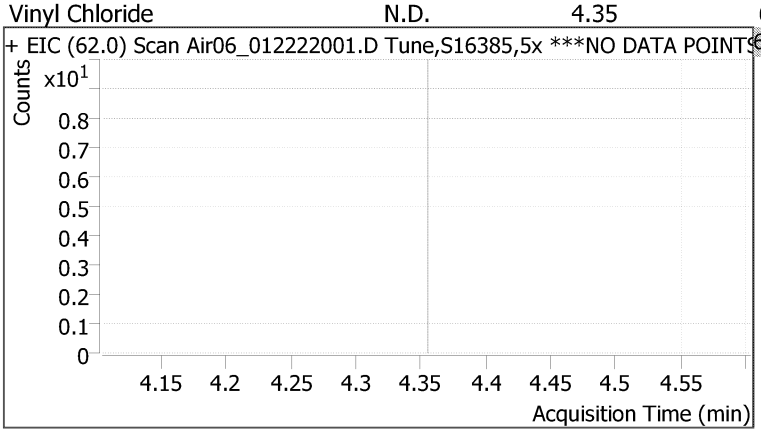

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0016 | 4.14 | 0.00 | 73 | 52.0 | 29.2 | 25.8 | 38.7 |
| | | | | | 49.0 | | 8.3 | 12.5 |

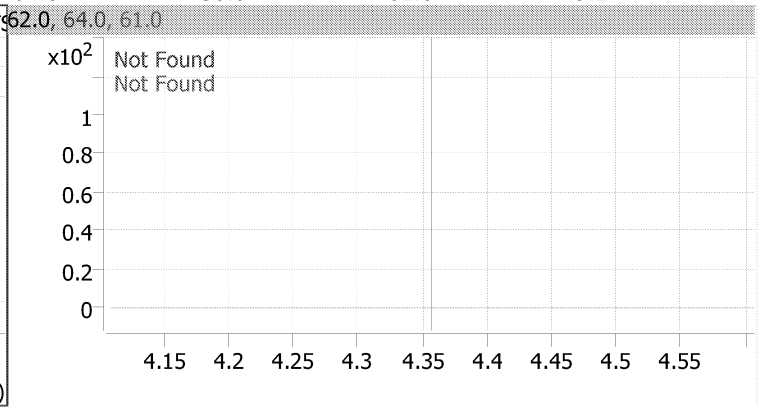



| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | N.D. | 4.24 | 85.0 | 155.2 | 87.0 | 49.7 | 137.0 | 32.4 |

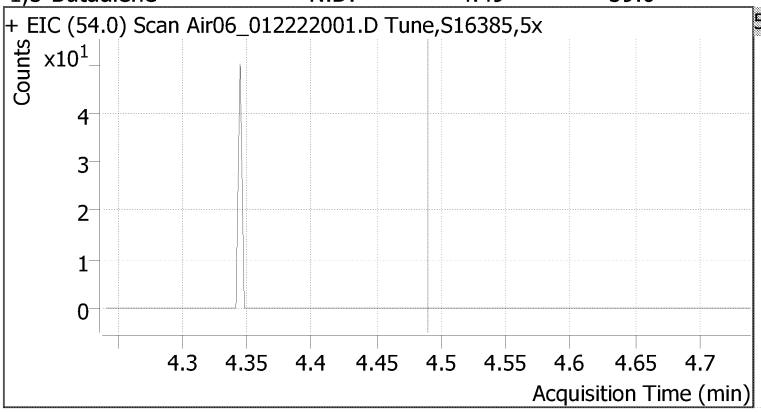


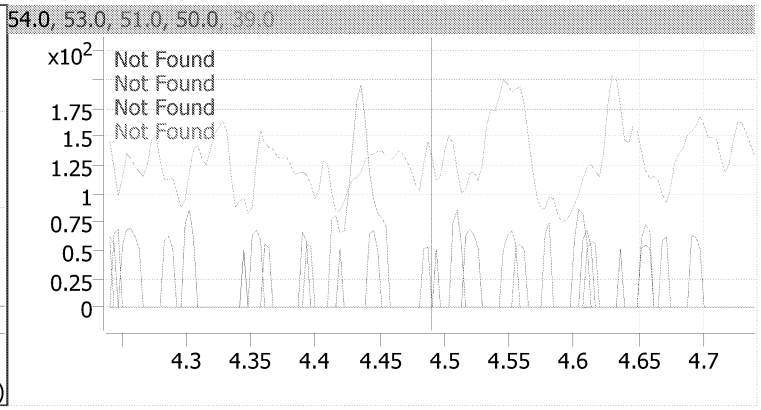
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl Chloride | N.D. | 4.35 | 64.0 | 30.6 | 61.0 | 9.1 |



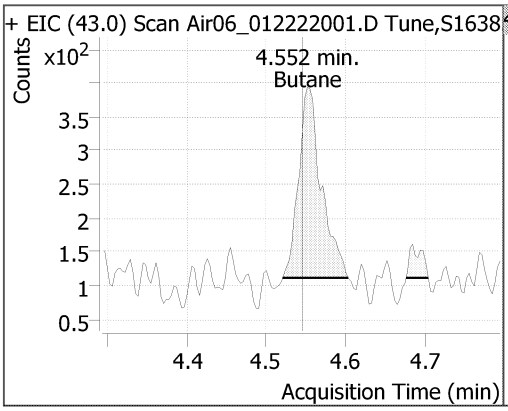



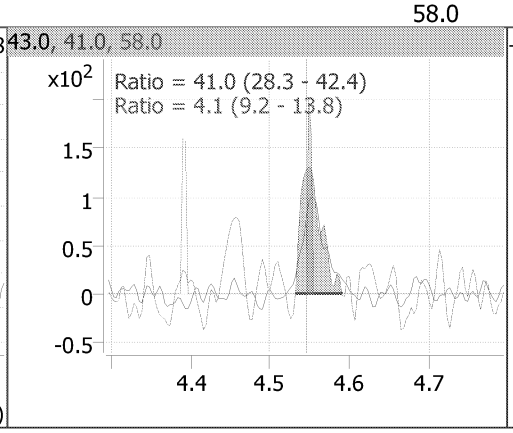

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | N.D. | 4.49 | 39.0 | 101.5 | 53.0 | 74.4 | 50.0 | 34.7 |

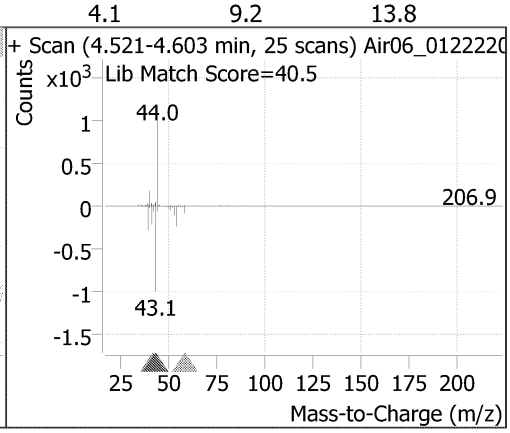


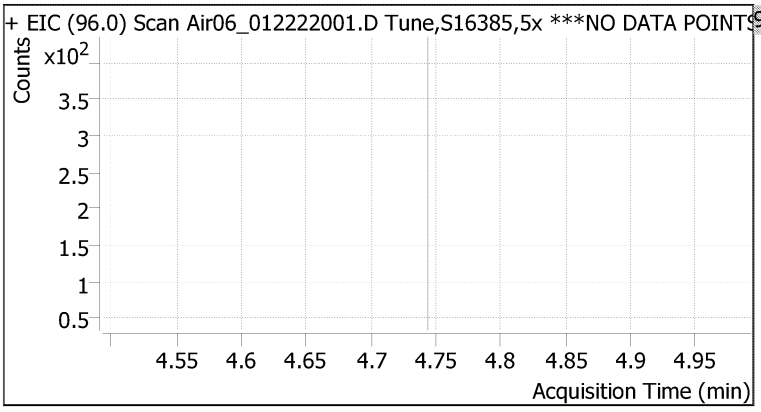

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.0074 | 4.55 | 0.01 | 563 | 41.0 | 41.0 | 28.3 | 42.4 |
| | | | | | 58.0 | 4.1 | 9.2 | 13.8 |

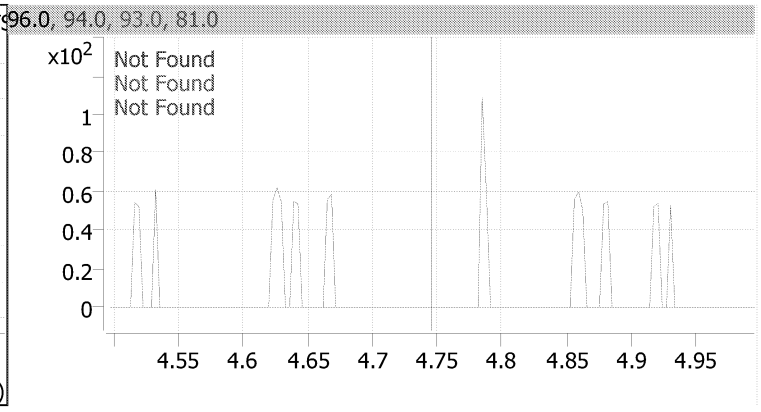


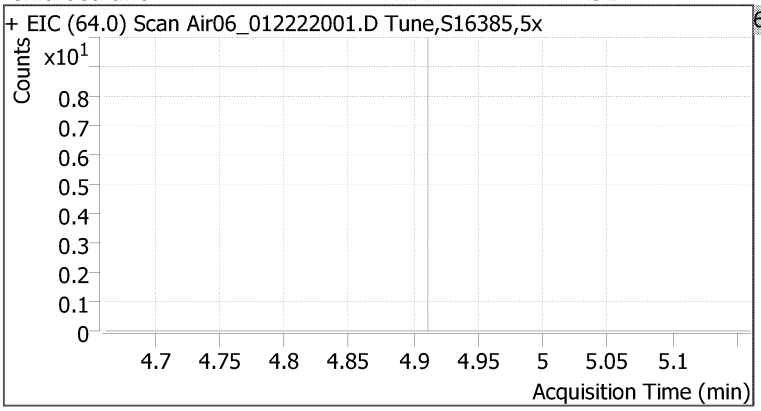



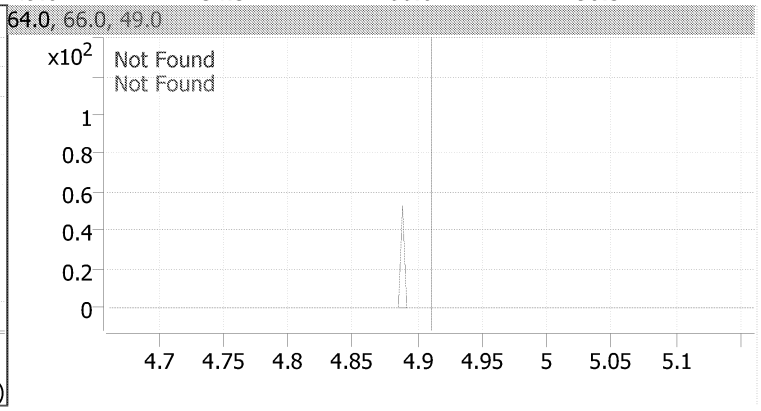

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | N.D. | 4.74 | 94.0 | 107.1 | 93.0 | 22.6 | 81.0 | 17.5 |



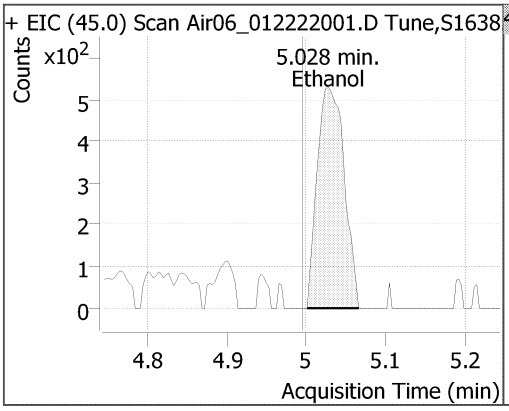



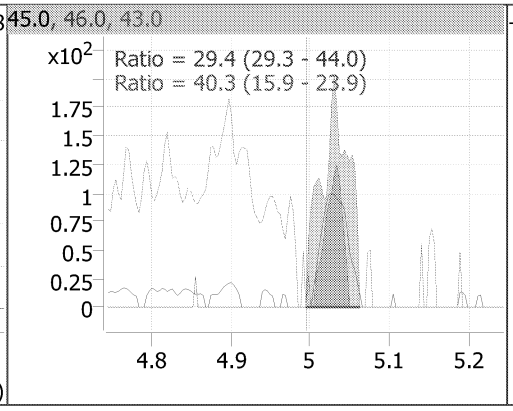
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Chloroethane | N.D. | 4.91 | 49.0 | 34.3 | 66.0 | 30.5 |

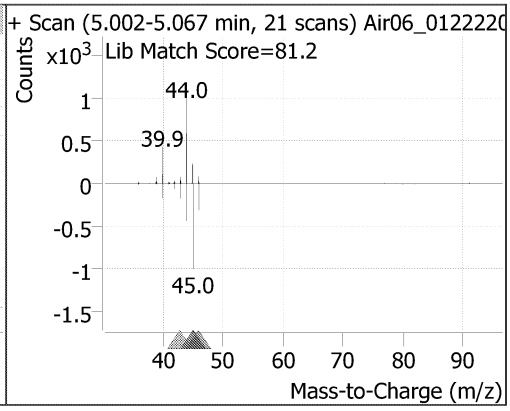


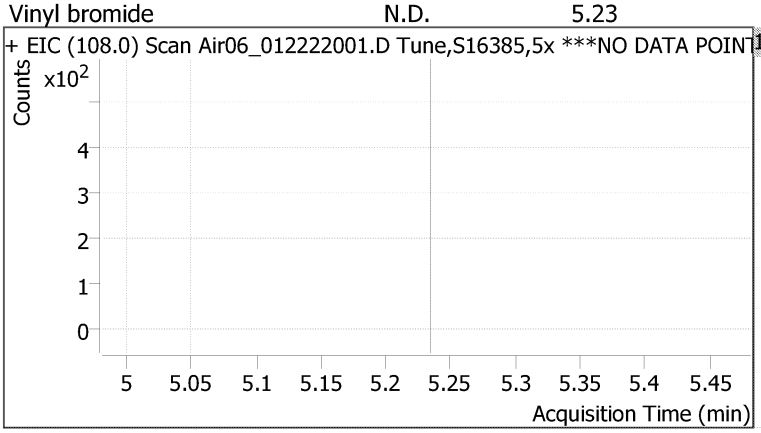

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.0555 | 5.03 | 0.04 | 1256 | 46.0 | 29.4 | 29.3 | 44.0 |
| | | | | | 43.0 | 40.3 | 15.9 | 23.9 |

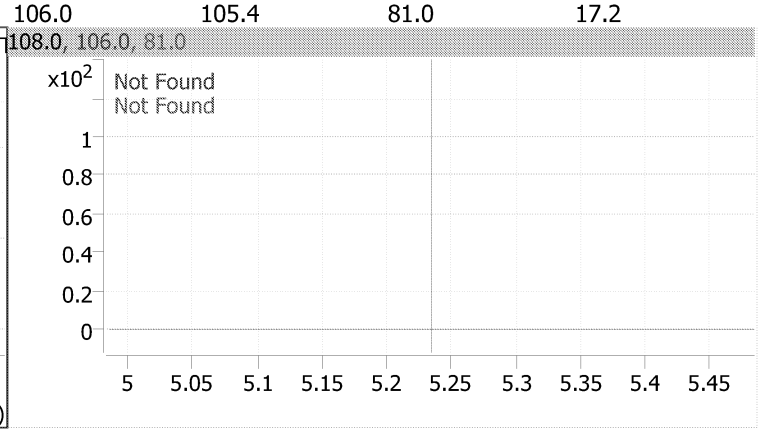


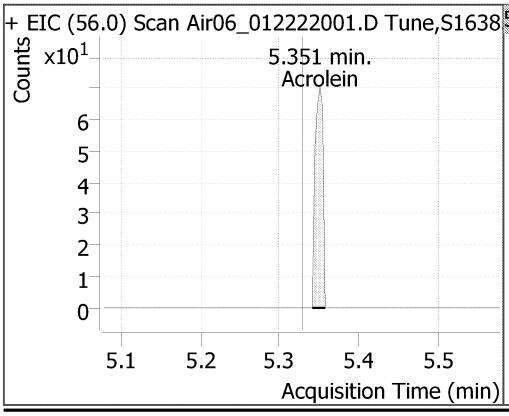



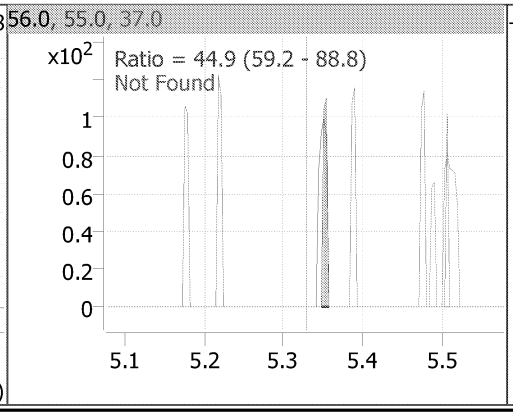

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Vinyl bromide | N.D. | 5.23 | 106.0 | 105.4 | 81.0 | 17.2 |

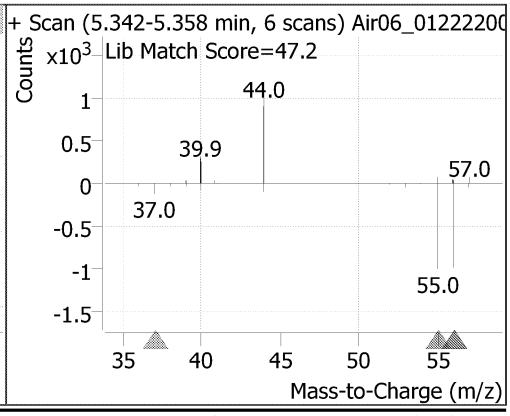



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.0024 | 5.35 | 0.03 | 49 | 55.0 | 44.9 | 59.2 | 88.8 |
| | | | | | 37.0 | | 7.3 | 11.0 |

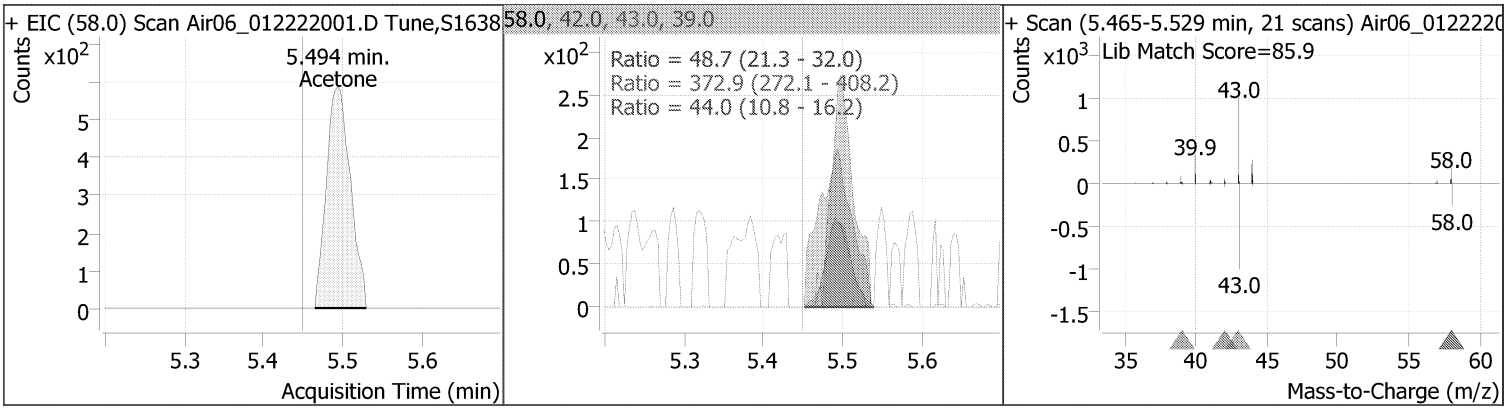


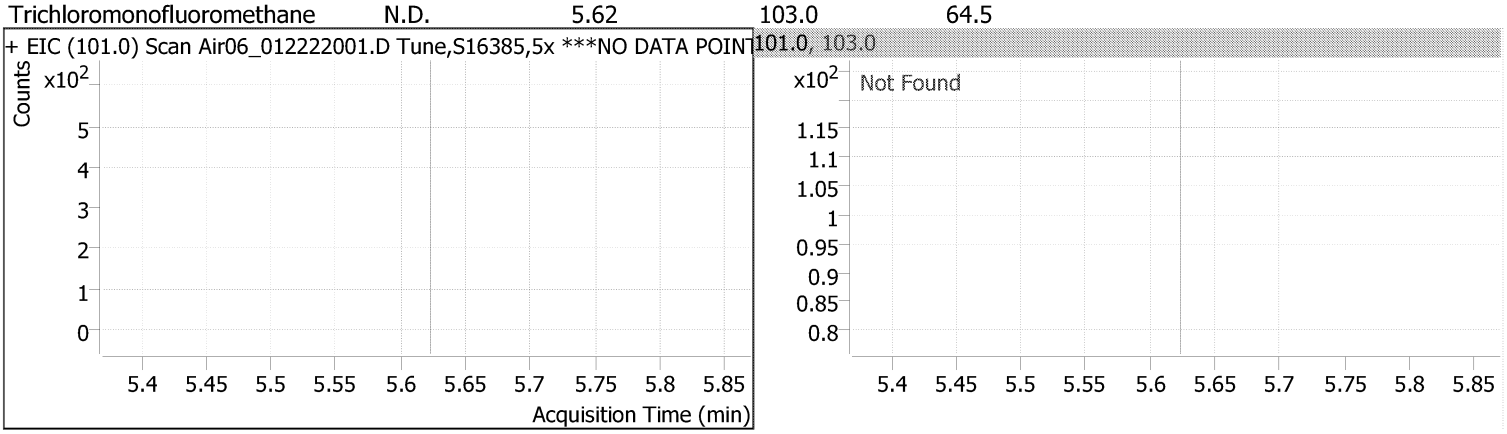



# Quantitation Results Report (Not Reviewed)

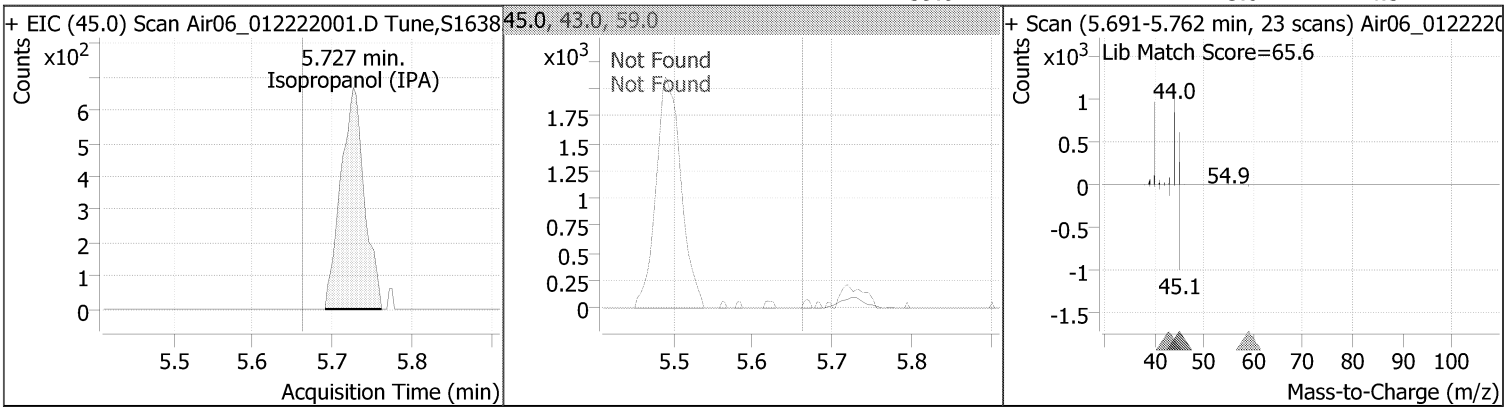
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.0524 | 5.49 | 0.05 | 1236 | 43.0 | 372.9 | 272.1 | 408.2 |
| | | | | | 42.0 | 48.7 | 21.3 | 32.0 |
| | | | | | 39.0 | 44.0 | 10.8 | 16.2 |



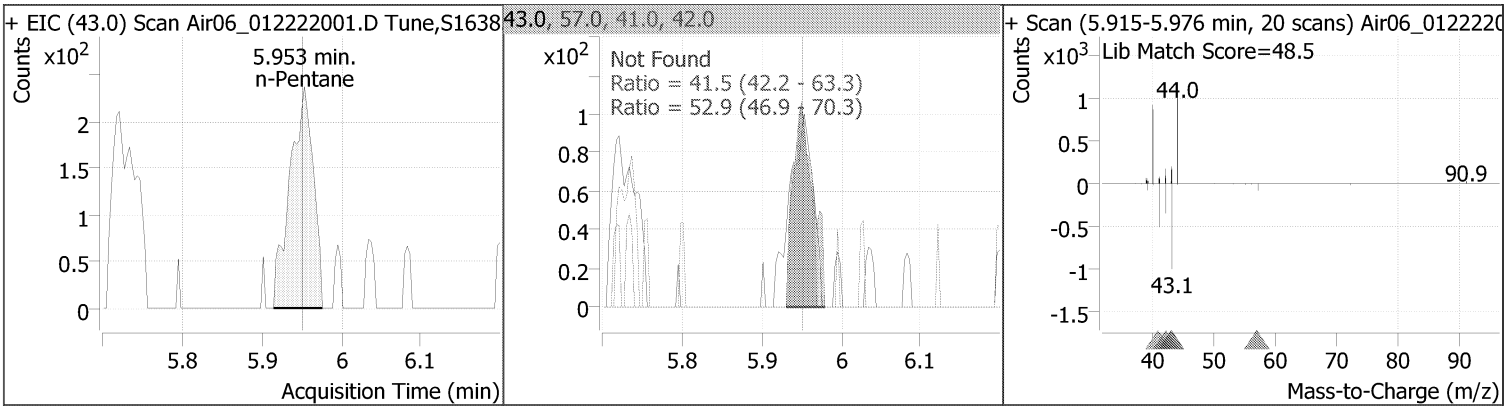

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| Trichloromonofluoromethane | N.D. | 5.62 | 103.0 | 64.5 |



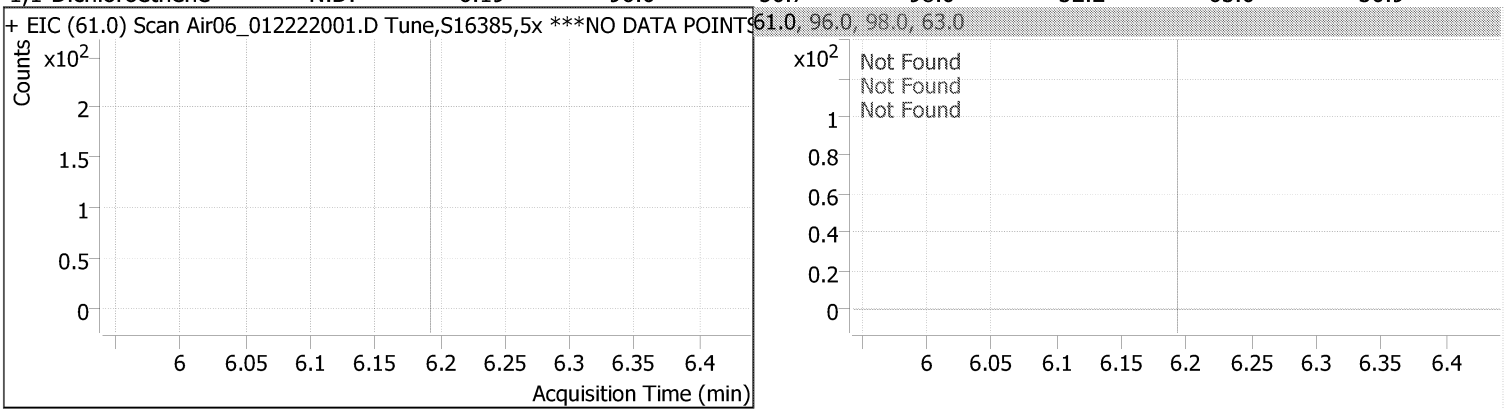

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.0164 | 5.73 | 0.07 | 1381 | 43.0 | | 14.9 | 22.3 |
| | | | | | 59.0 | | 3.0 | 4.5 |



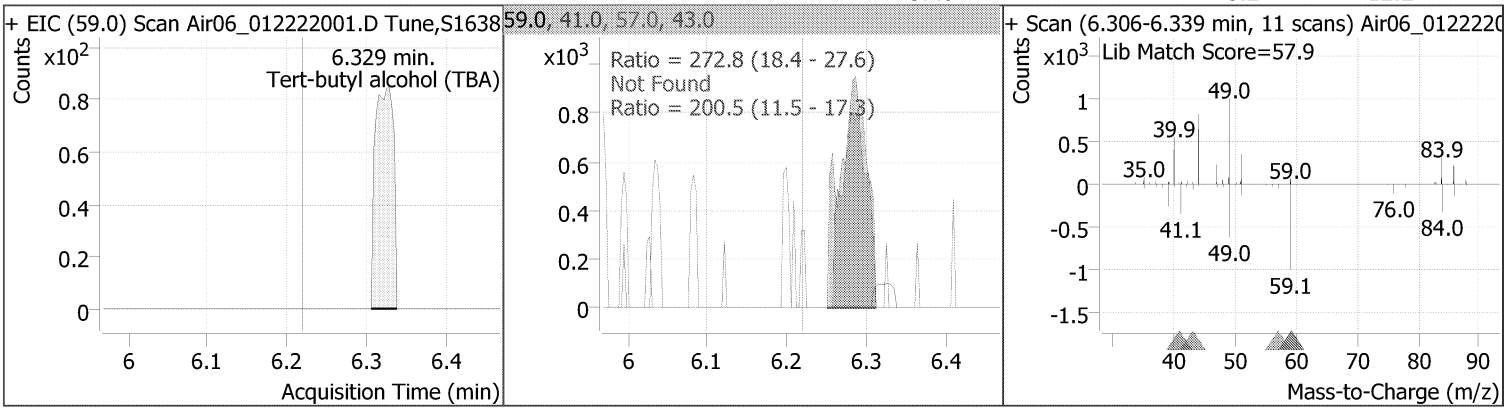
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.0052 | 5.95 | 0.01 | 487 | 42.0 | 52.9 | 46.9 | 70.3 |
| | | | | | 41.0 | 41.5 | 42.2 | 63.3 |
| | | | | | 57.0 | | 11.9 | 17.8 |




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | N.D. | 6.19 | 96.0 | 50.7 | 98.0 | 32.2 | 63.0 | 30.9 |

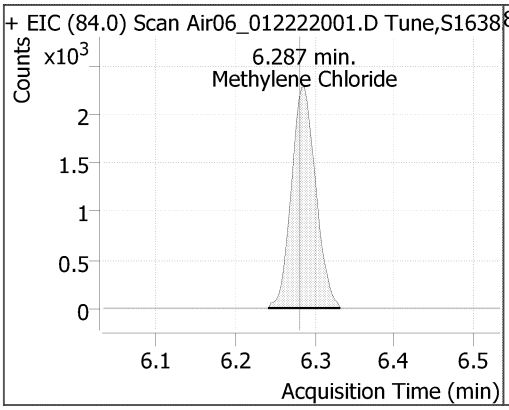


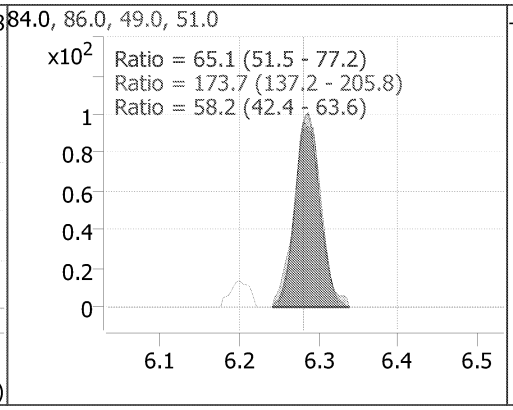

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.0014 | 6.33 | 0.11 | 134 | 41.0 | 272.8 | 18.4 | 27.6 |
| | | | | | 43.0 | 200.5 | 11.5 | 17.3 |
| | | | | | 57.0 | | 8.2 | 12.2 |

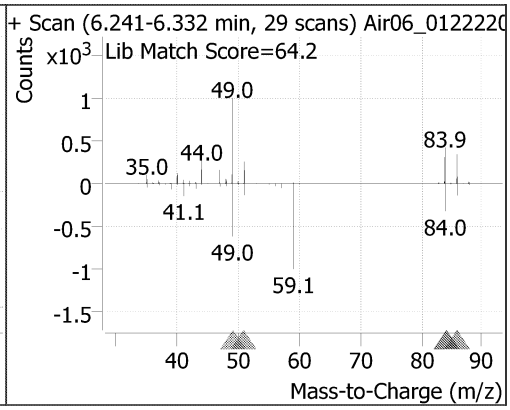


# Quantitation Results Report (Not Reviewed)

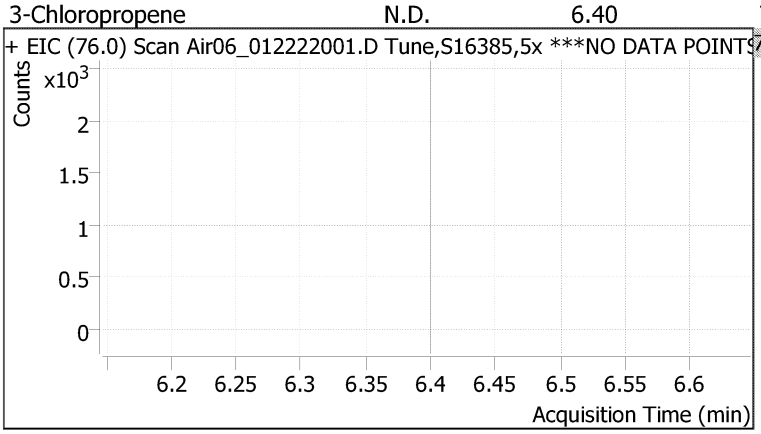
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.1176 | 6.29 | 0.01 | 4881 | 49.0 | 173.7 | 137.2 | 205.8 |
| | | | | | 86.0 | 65.1 | 51.5 | 77.2 |
| | | | | | 51.0 | 58.2 | 42.4 | 63.6 |

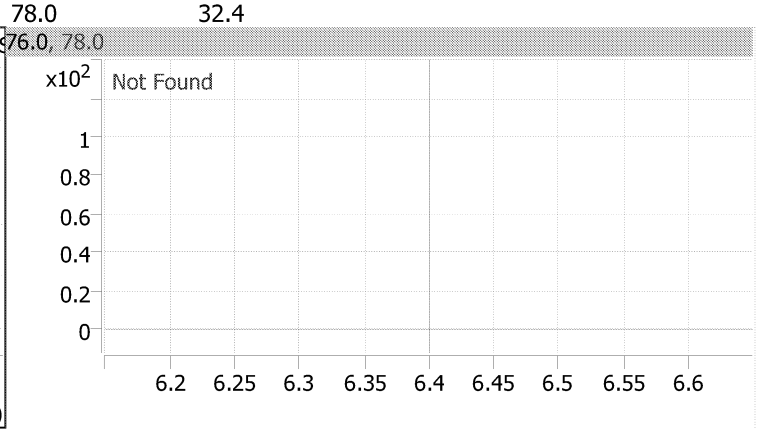


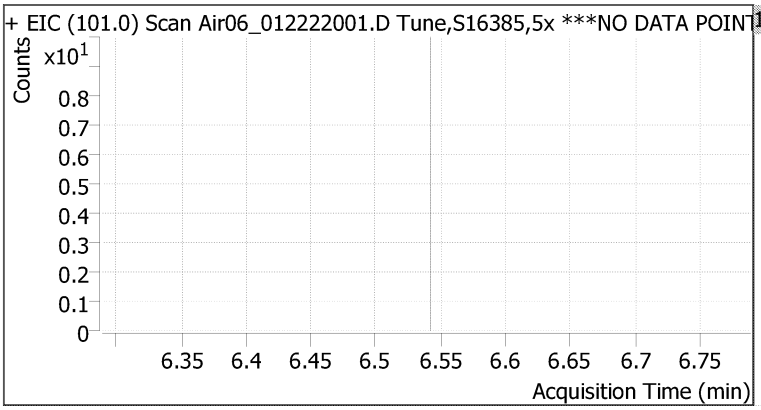



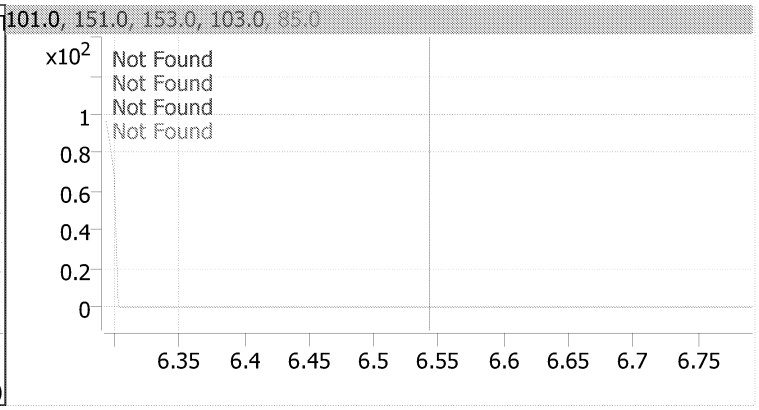

| Compound | Conc. | Exp RT | QIon | Exp Ratio |
|---|---|---|---|---|
| 3-Chloropropene | N.D. | 6.40 | 78.0 | 32.4 |



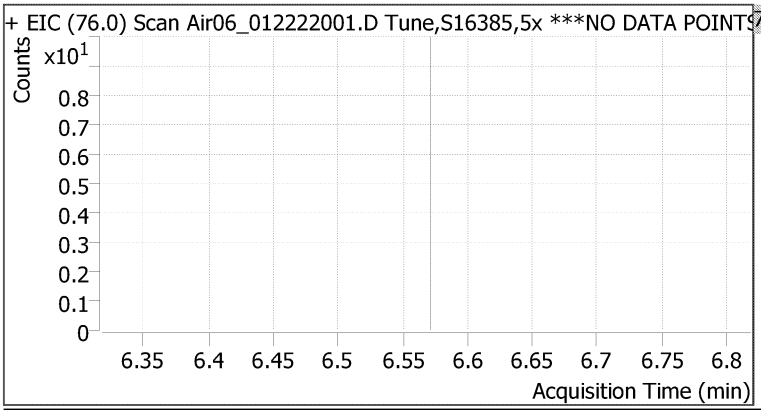



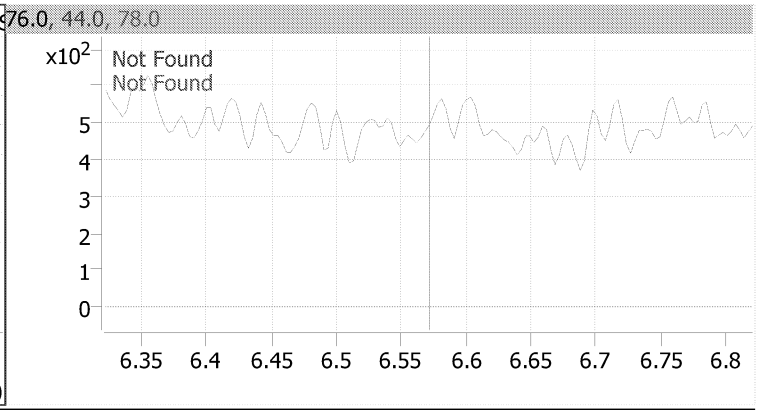

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | N.D. | 6.54 | 151.0 | 85.0 | 103.0 | 64.3 | 153.0 | 54.9 |



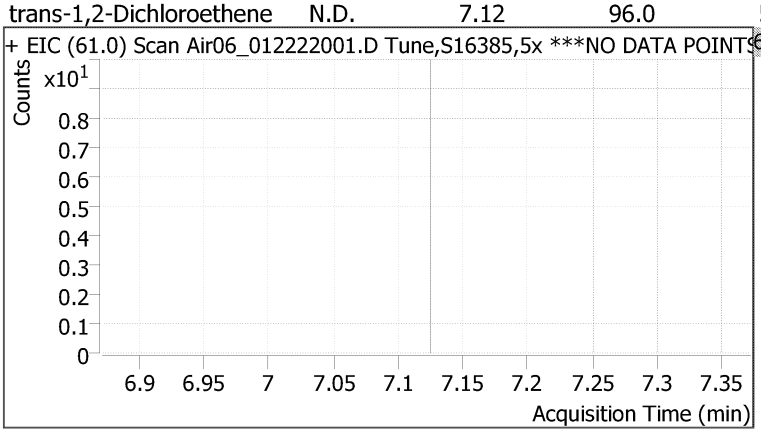



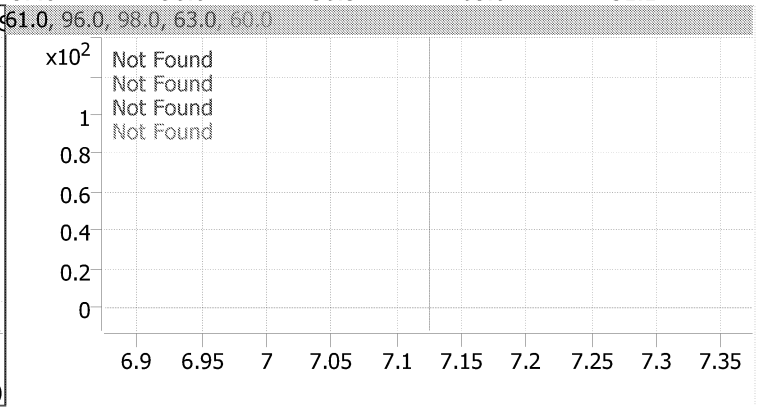

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Carbon Disulfide | N.D. | 6.57 | 44.0 | 16.4 | 78.0 | 11.2 |



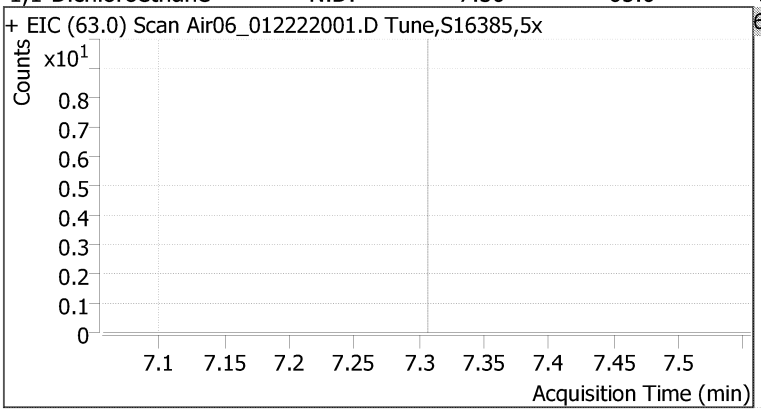



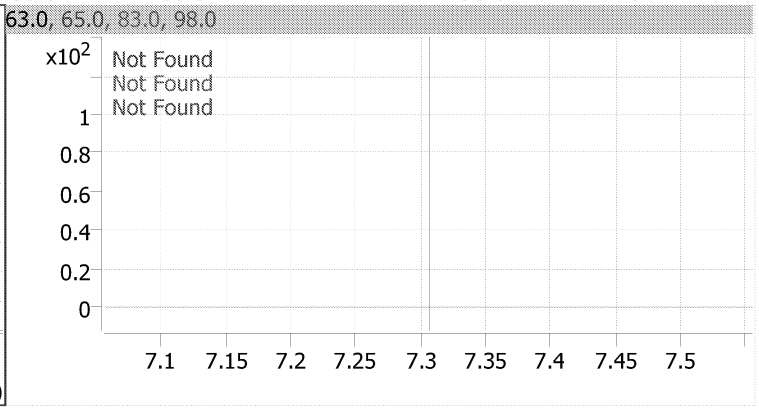
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | N.D. | 7.12 | 96.0 | 57.0 | 98.0 | 36.5 | 63.0 | 31.1 |



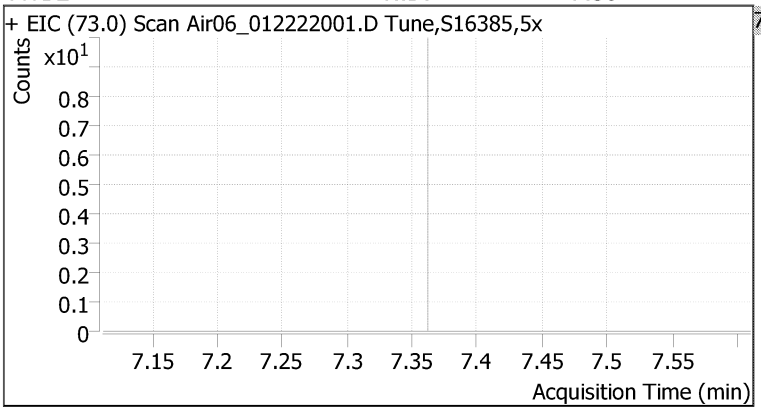



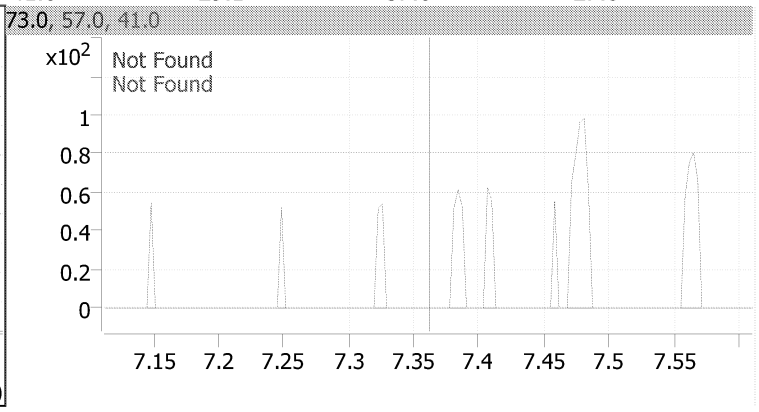

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | N.D. | 7.30 | 65.0 | 30.6 | 83.0 | 12.1 | 98.0 | 4.9 |



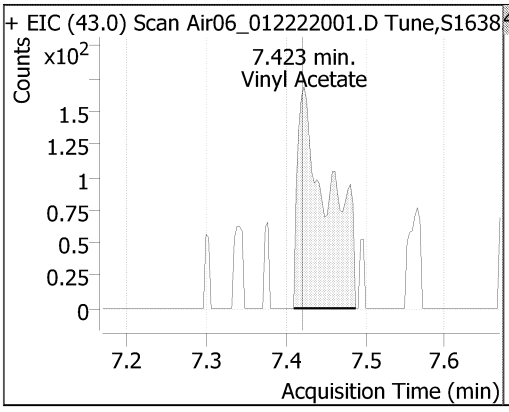



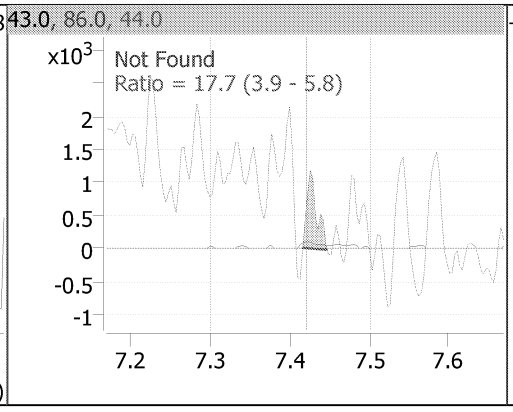

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| MTBE | N.D. | 7.36 | 41.0 | 29.1 | 57.0 | 27.6 |

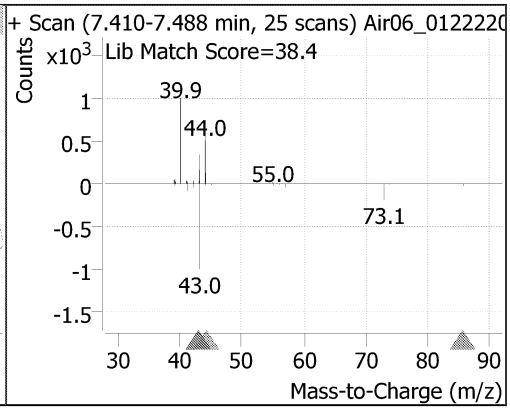



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.0031 | 7.42 | 0.01 | 454 | 86.0 | | 5.2 | 7.9 |
| | | | | | 44.0 | 17.7 | 3.9 | 5.8 |

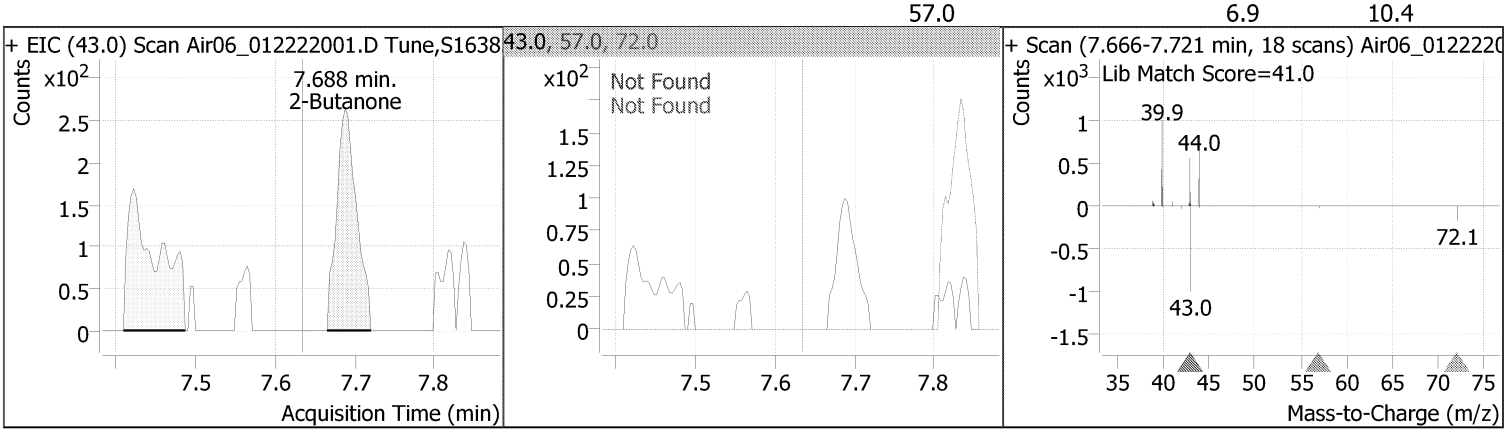


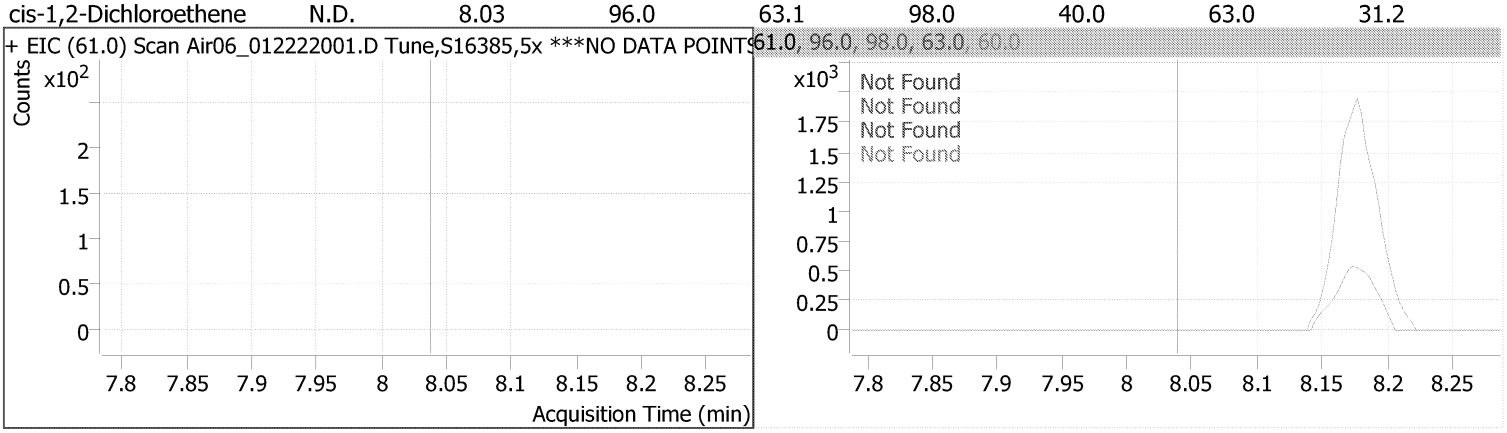



# Quantitation Results Report (Not Reviewed)

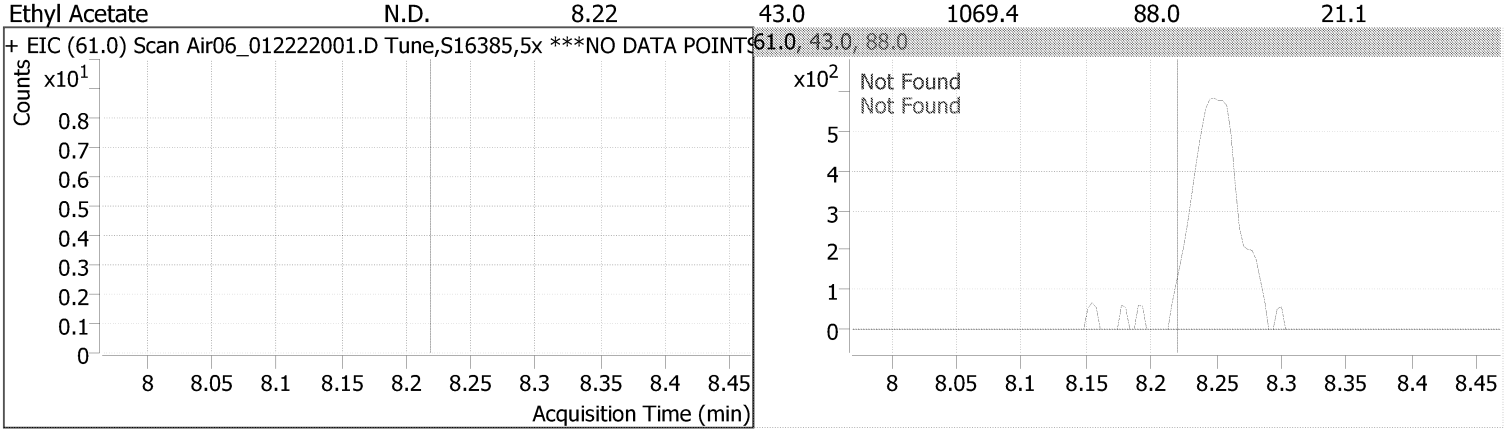
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.0041 | 7.69 | 0.06 | 463 | 72.0 | | 16.8 | 25.2 |
| | | | | | 57.0 | | 6.9 | 10.4 |



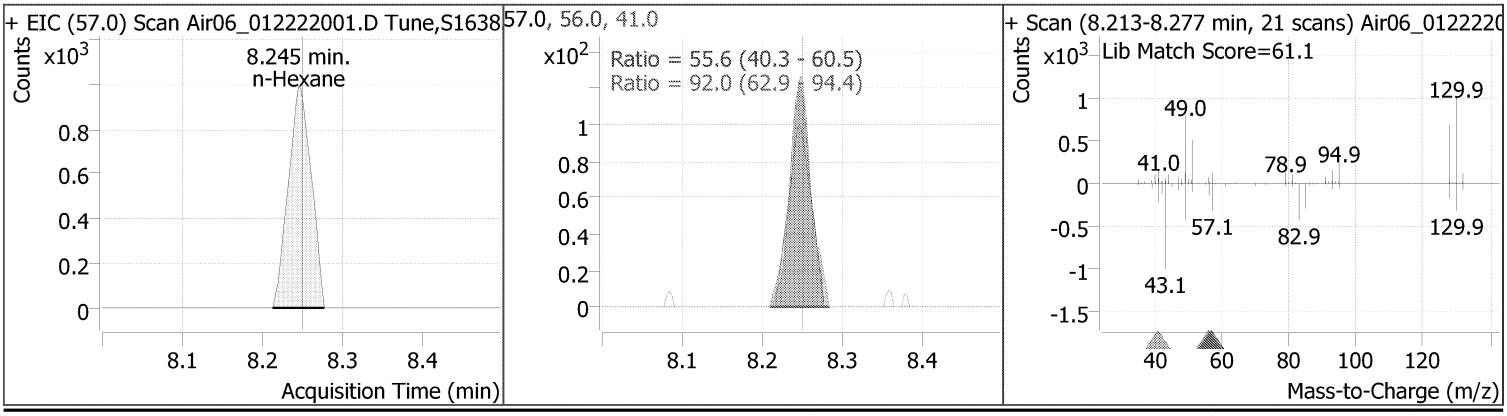

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | N.D. | 8.03 | 96.0 | 63.1 | 98.0 | 40.0 | 63.0 | 31.2 |



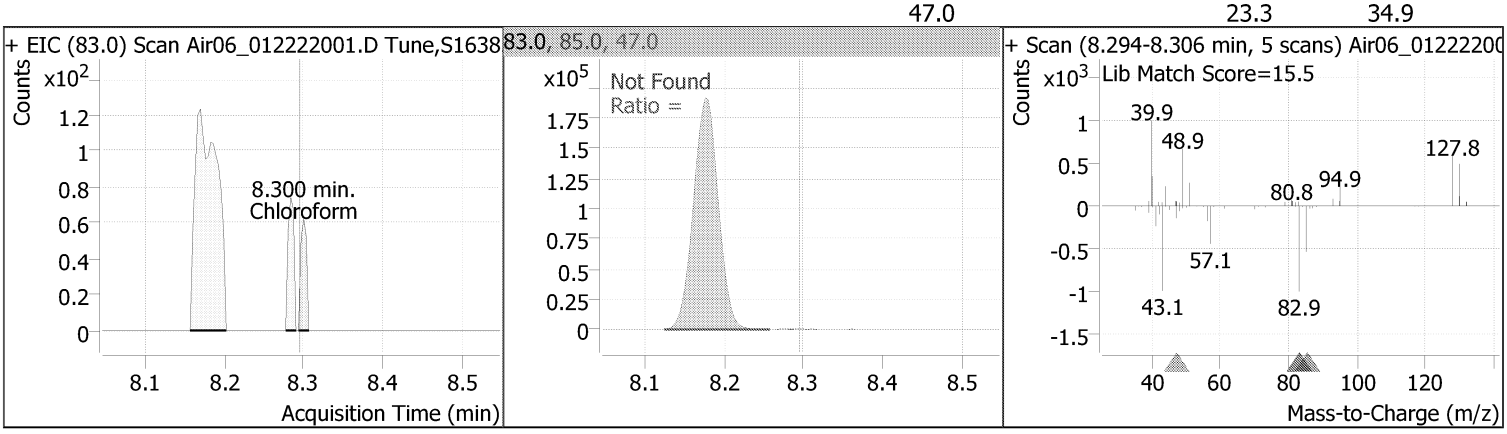

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Ethyl Acetate | N.D. | 8.22 | 43.0 | 1069.4 | 88.0 | 21.1 |



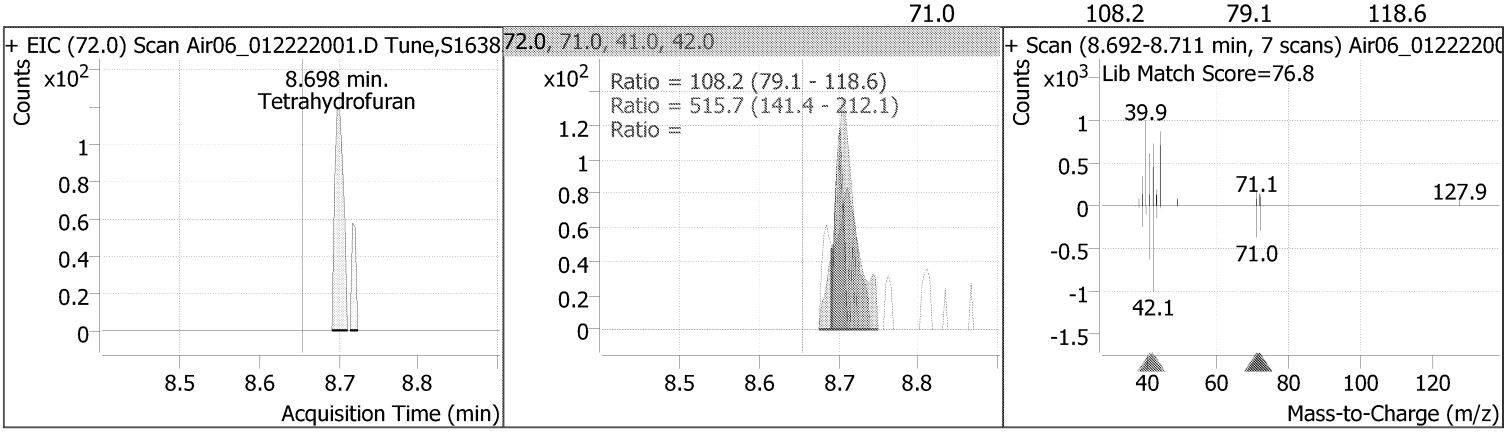

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.0240 | 8.24 | 0.00 | 1977 | 41.0 | 92.0 | 62.9 | 94.4 |
| | | | | | 56.0 | 55.6 | 40.3 | 60.5 |



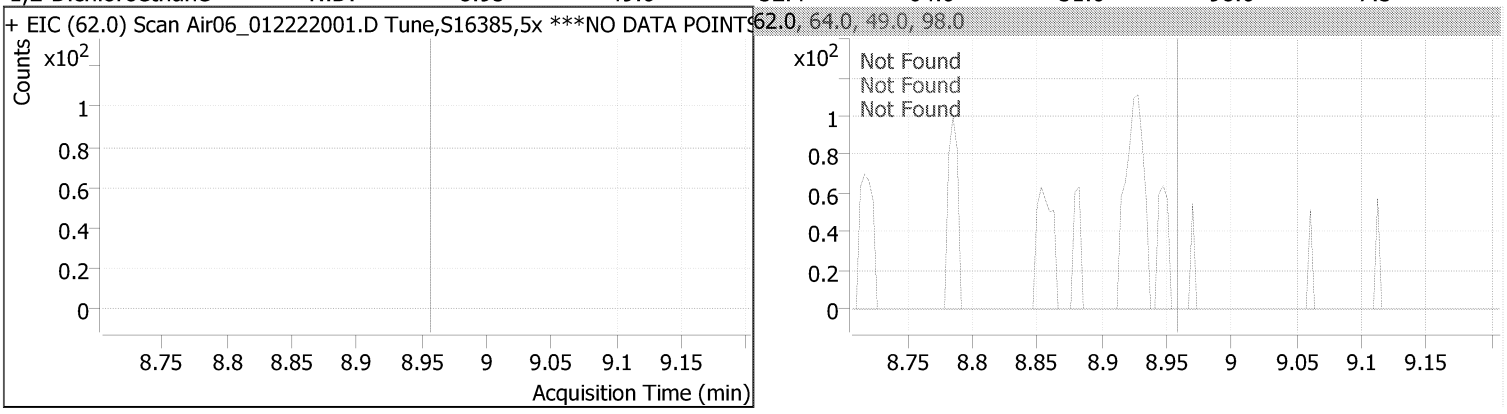
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.0003 | 8.30 | 0.01 | 32 | 85.0 | | 52.4 | 78.6 |
| | | | | | 47.0 | | 23.3 | 34.9 |



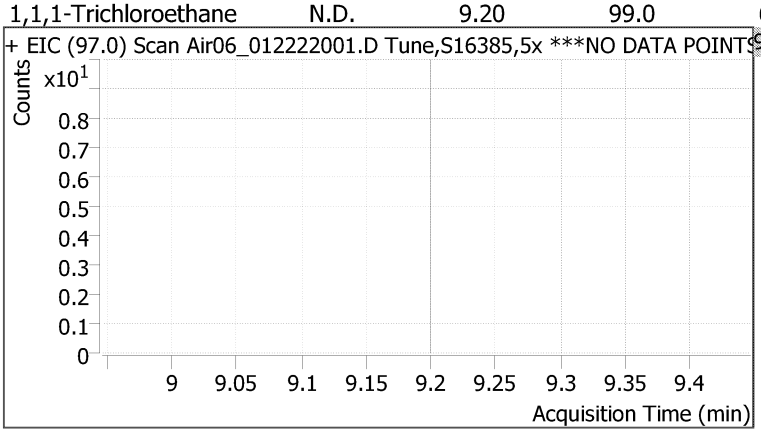

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.0044 | 8.70 | 0.05 | 91 | 42.0 | | 258.1 | 387.2 |
| | | | | | 41.0 | 515.7 | 141.4 | 212.1 |
| | | | | | 71.0 | 108.2 | 79.1 | 118.6 |

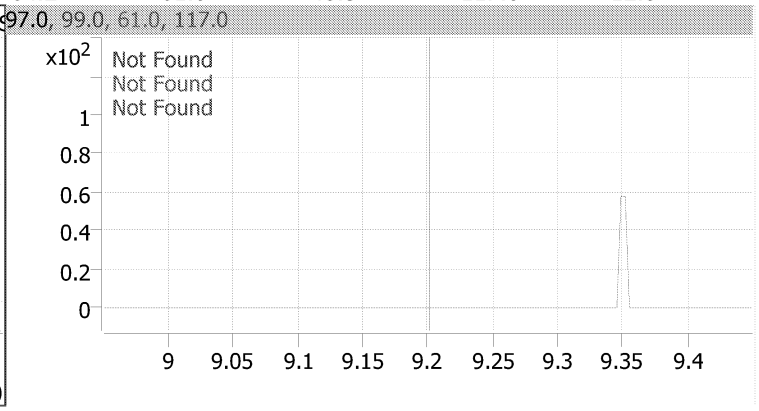



| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | N.D. | 8.95 | 49.0 | 32.4 | 64.0 | 31.6 | 98.0 | 7.3 |

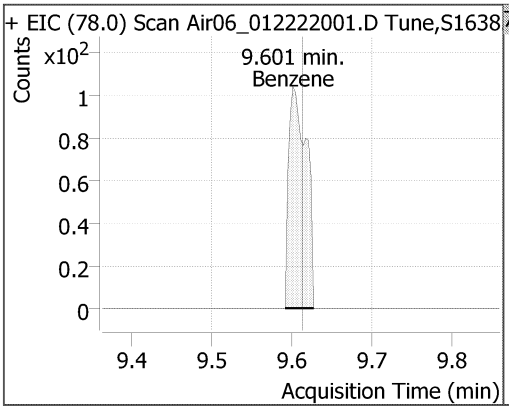


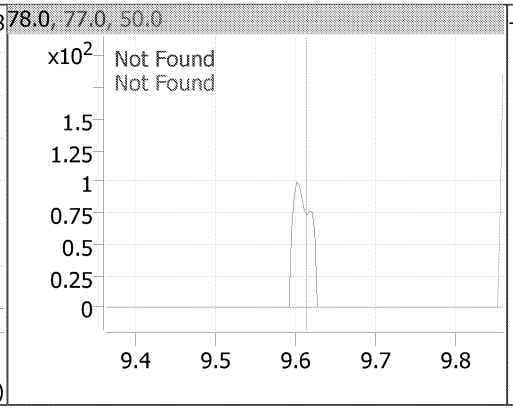
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | N.D. | 9.20 | 99.0 | 64.2 | 61.0 | 48.3 | 117.0 | 12.8 |

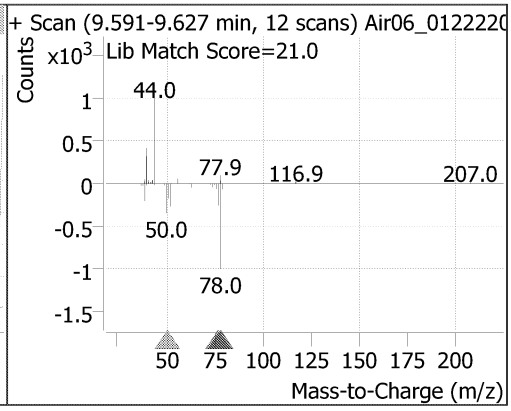


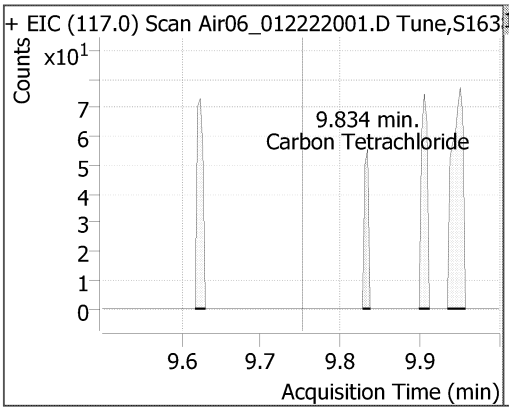

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0012 | 9.60 | -0.01 | 160 | 77.0 | | 18.9 | 28.3 |
| | | | | | 50.0 | | 16.6 | 24.9 |

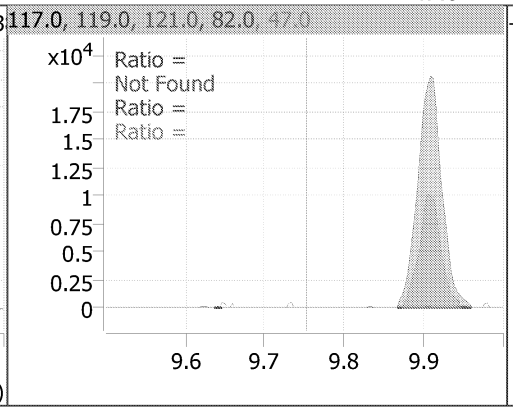


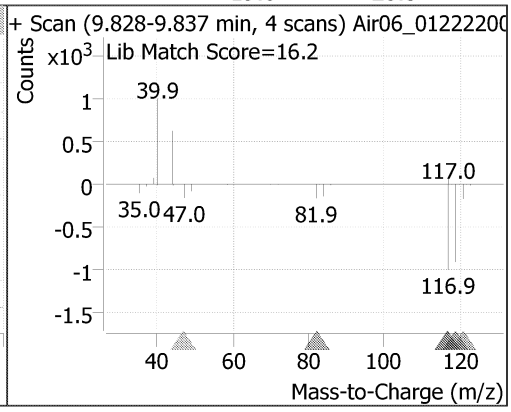



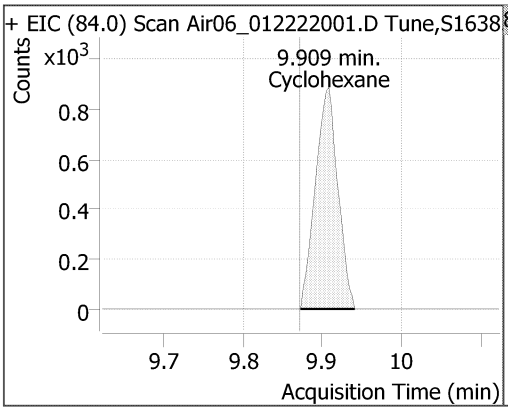

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.0002 | 9.83 | 0.09 | 21 | 119.0 | | 77.1 | 115.7 |
| | | | | | 121.0 | | 24.8 | 37.3 |
| | | | | | 82.0 | | 19.3 | 28.9 |
| | | | | | 47.0 | | 19.0 | 28.5 |

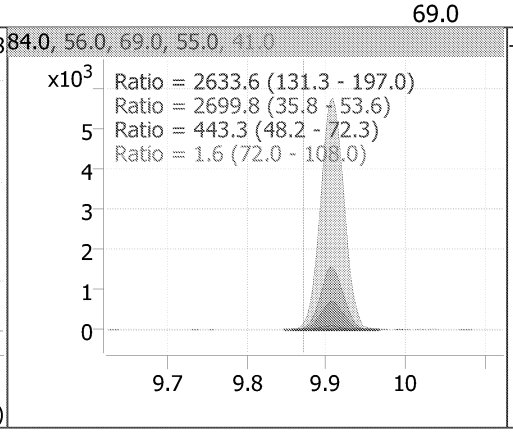


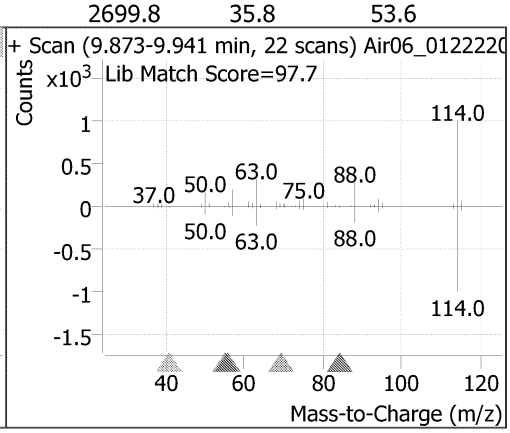



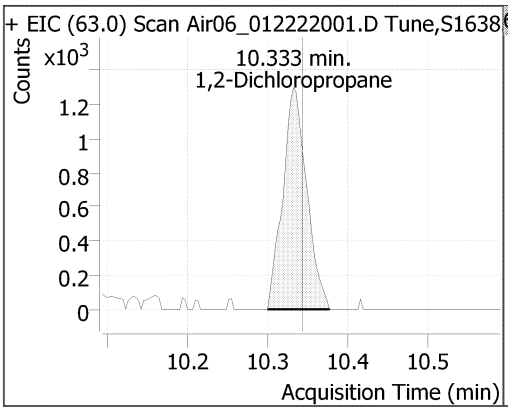
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.0312 | 9.91 | 0.04 | 1744 | 56.0 | 2633.6 | 131.3 | 197.0 |
| | | | | | 41.0 | 1.6 | 72.0 | 108.0 |
| | | | | | 55.0 | 443.3 | 48.2 | 72.3 |
| | | | | | 69.0 | 2699.8 | 35.8 | 53.6 |

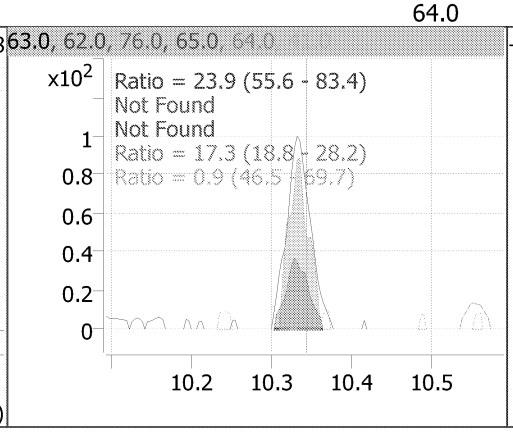


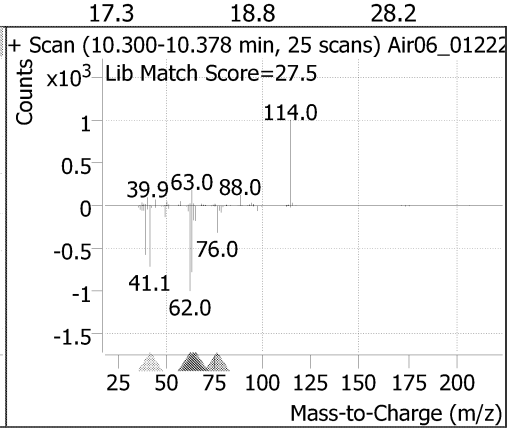



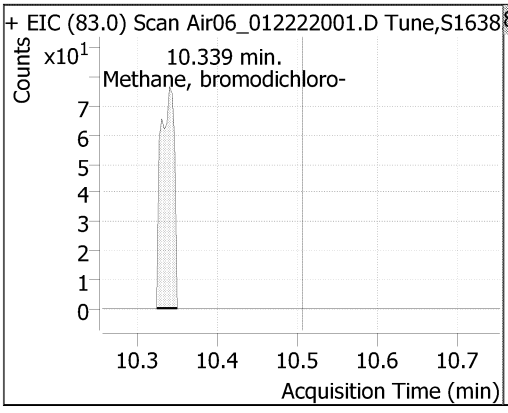

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0429 | 10.33 | -0.01 | 2717 | 62.0 | 23.9 | 55.6 | 83.4 |
| | | | | | 41.0 | 0.9 | 46.5 | 69.7 |
| | | | | | 76.0 | | 28.4 | 42.6 |
| | | | | | 65.0 | | 23.7 | 35.6 |
| | | | | | 64.0 | 17.3 | 18.8 | 28.2 |

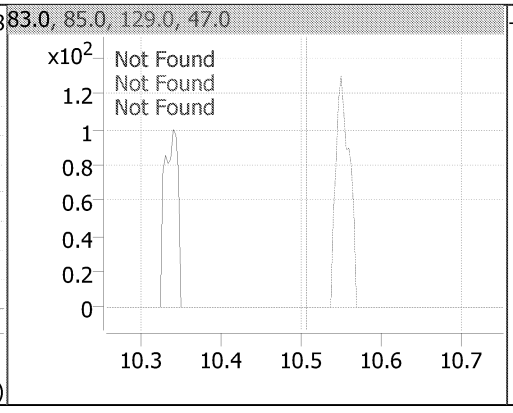


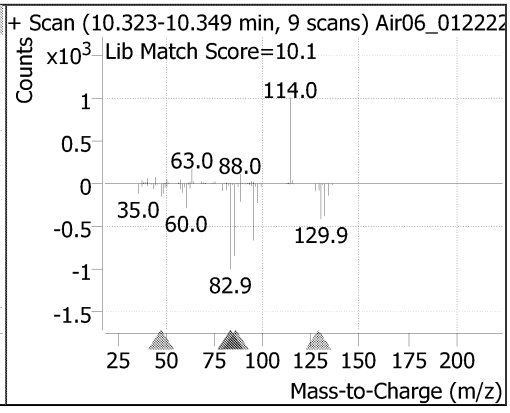



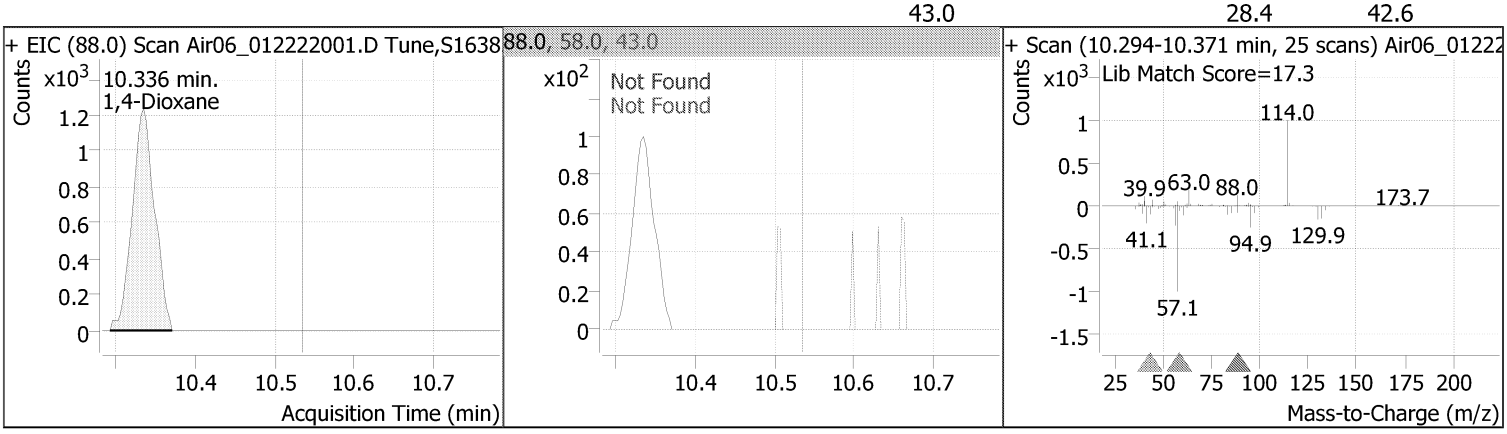

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.0009 | 10.34 | -0.17 | 90 | 85.0 | | 51.4 | 77.1 |
| | | | | | 47.0 | | 18.3 | 27.4 |
| | | | | | 129.0 | | 9.1 | 13.7 |



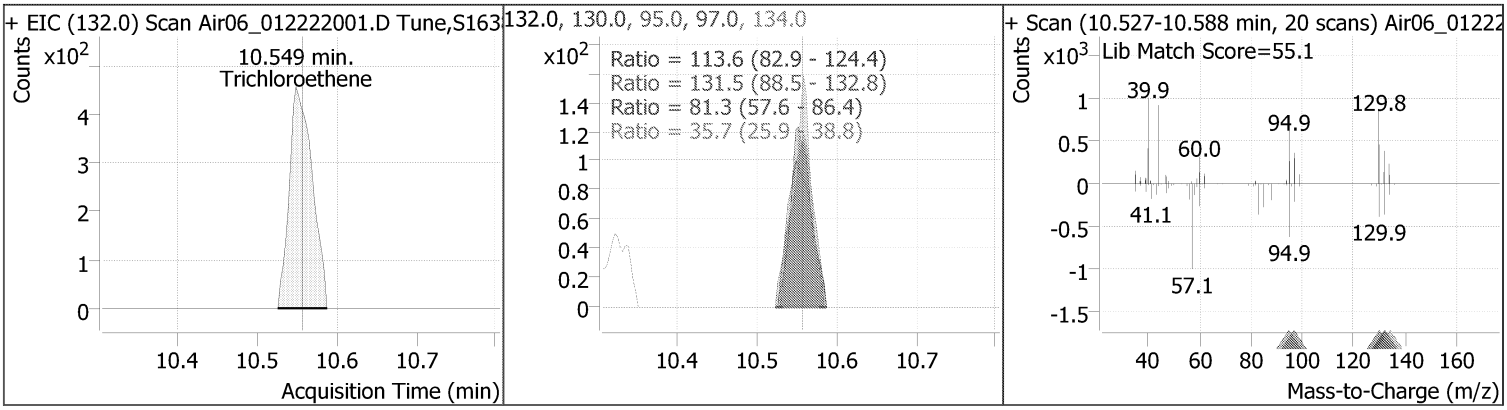



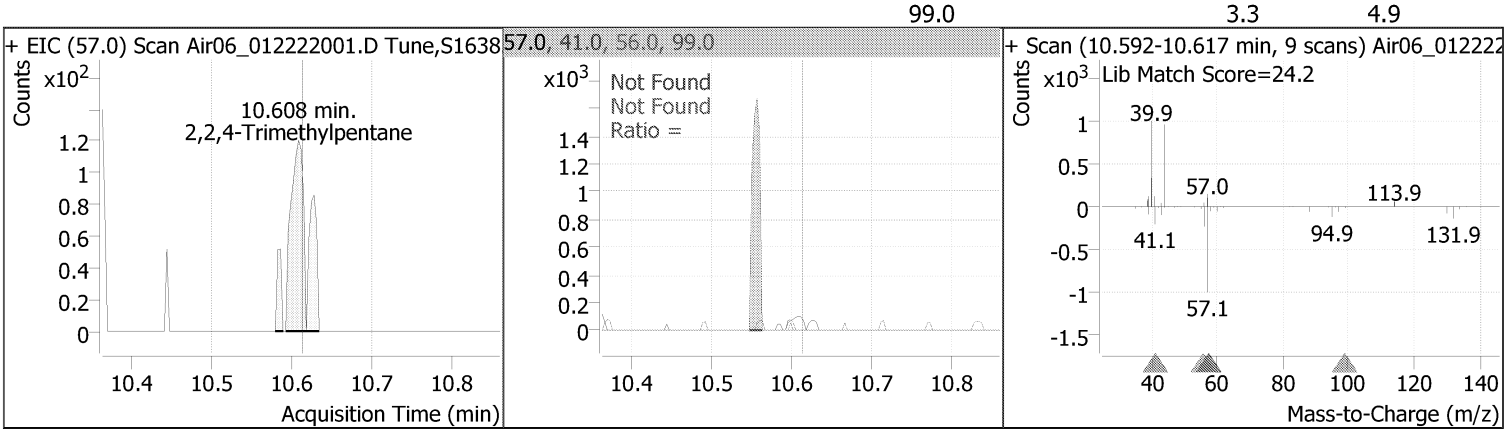
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.0728 | 10.34 | -0.20 | 2408 | 58.0 | | 67.8 | 101.6 |
| | | | | | 43.0 | | 28.4 | 42.6 |



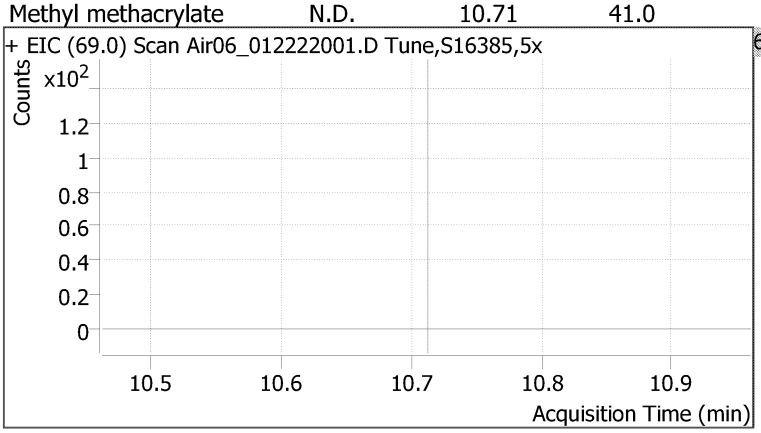

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.0142 | 10.55 | -0.01 | 915 | 95.0 | 131.5 | 88.5 | 132.8 |
| | | | | | 130.0 | 113.6 | 82.9 | 124.4 |
| | | | | | 97.0 | 81.3 | 57.6 | 86.4 |
| | | | | | 134.0 | 35.7 | 25.9 | 38.8 |

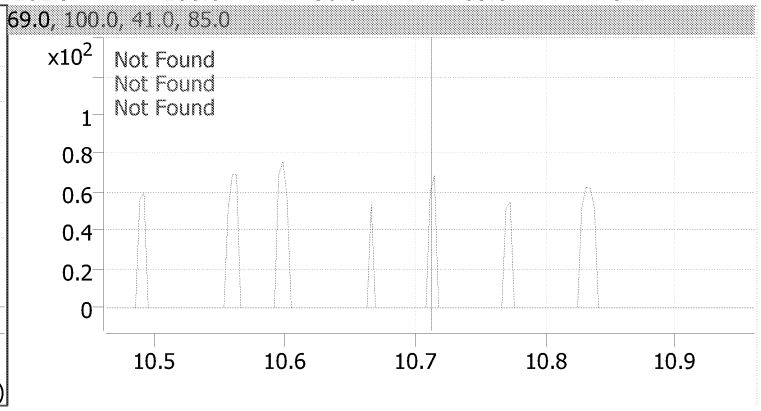



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.0005 | 10.61 | 0.00 | 130 | 56.0 | | 25.1 | 37.7 |
| | | | | | 41.0 | | 22.2 | 33.3 |
| | | | | | 99.0 | | 3.3 | 4.9 |

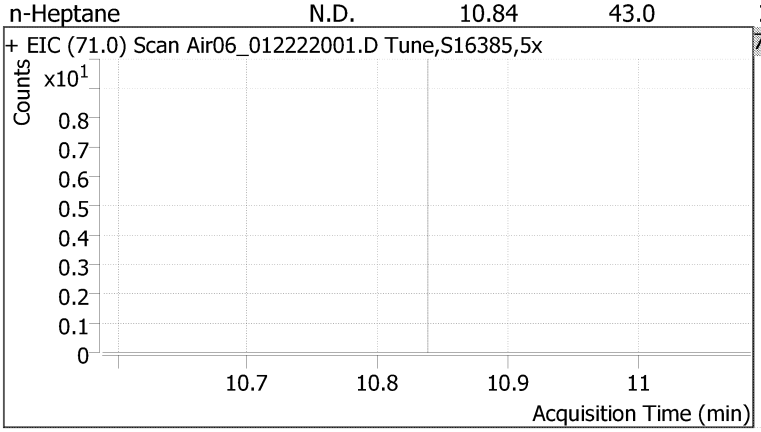


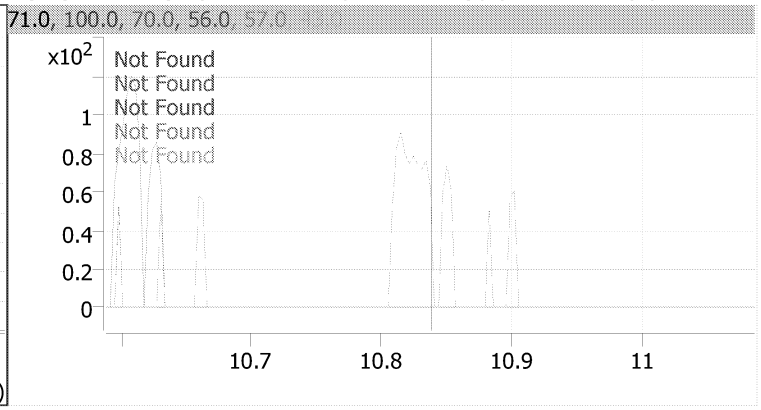
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | N.D. | 10.71 | 41.0 | 161.9 | 100.0 | 36.0 | 85.0 | 9.1 |



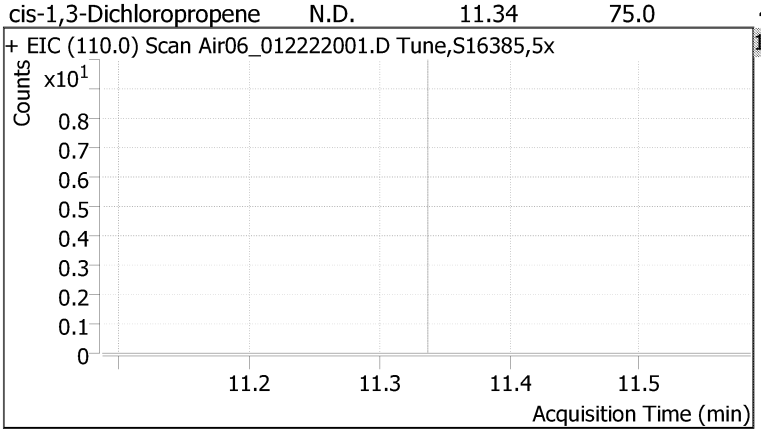



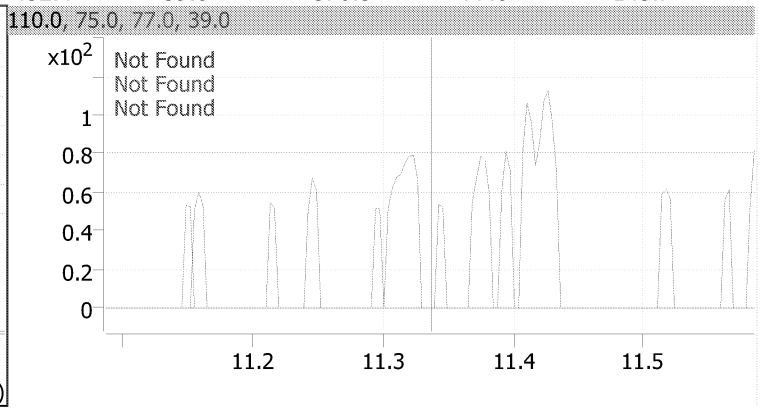

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | N.D. | 10.84 | 43.0 | 231.3 | 57.0 | 116.1 | 56.0 | 70.6 |



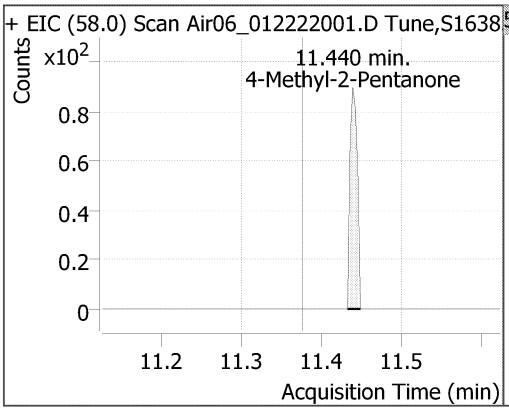



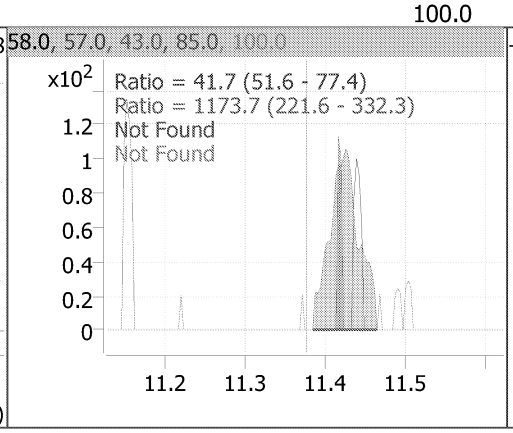

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | N.D. | 11.34 | 75.0 | 452.4 | 39.0 | 370.5 | 77.0 | 143.7 |

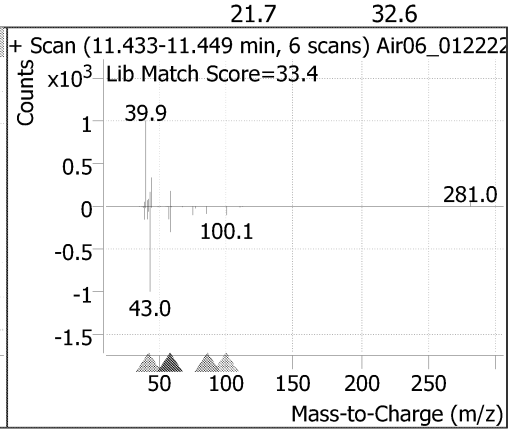


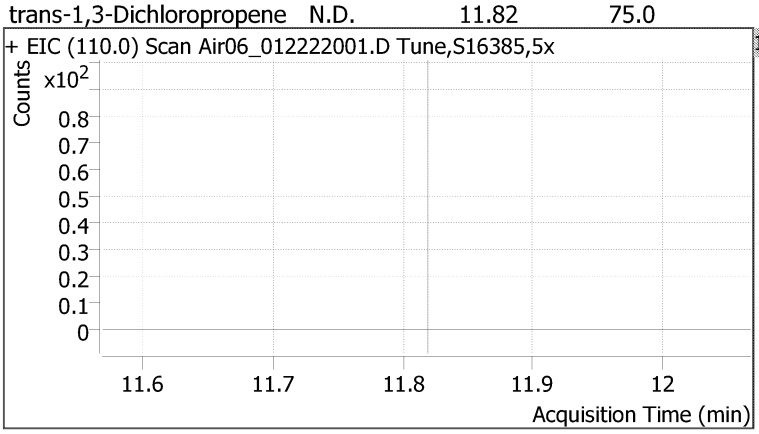
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.0010 | 11.44 | 0.06 | 57 | 43.0 | 1173.7 | 221.6 | 332.3 |
| | | | | | 57.0 | 41.7 | 51.6 | 77.4 |
| | | | | | 85.0 | | 31.1 | 46.7 |
| | | | | | 100.0 | | 21.7 | 32.6 |

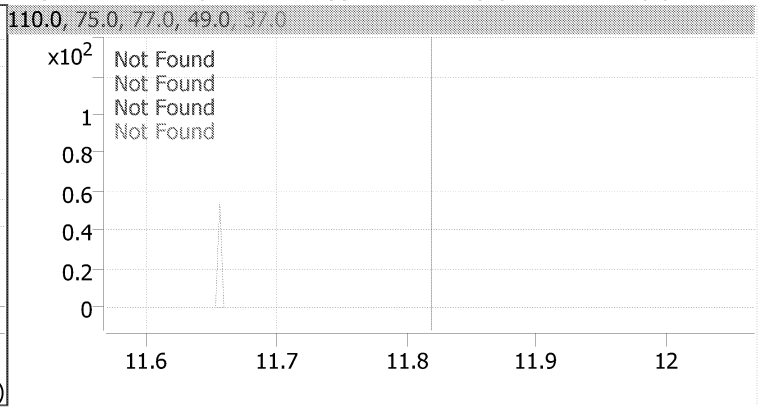


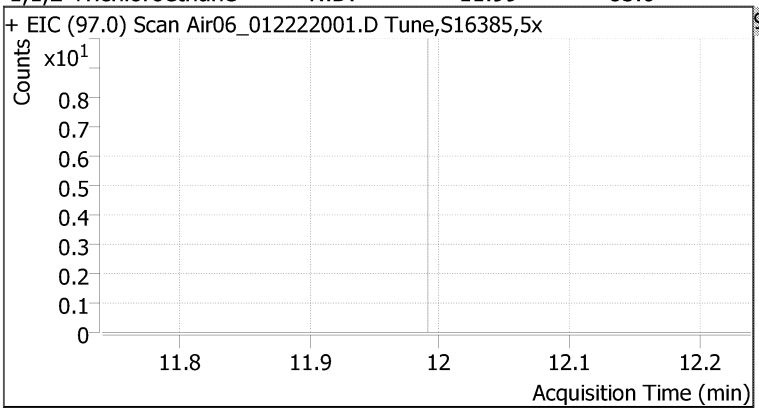



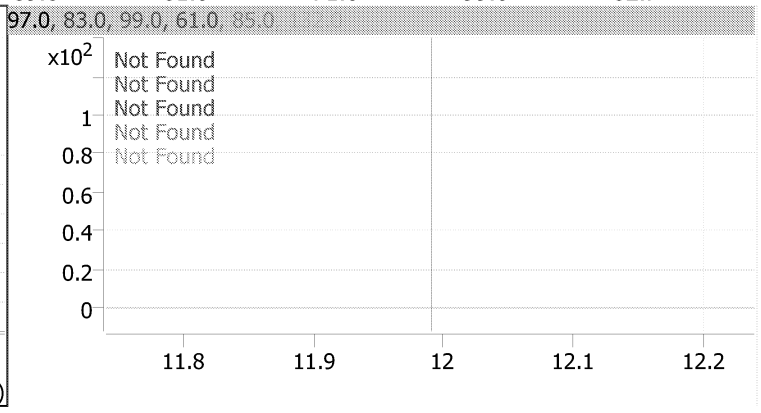

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | N.D. | 11.82 | 75.0 | 425.2 | 77.0 | 135.1 | 49.0 | 110.0 |



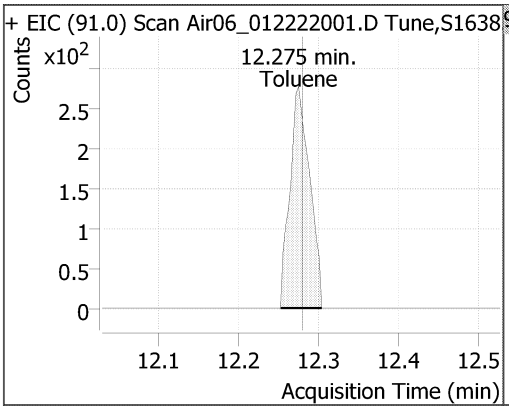



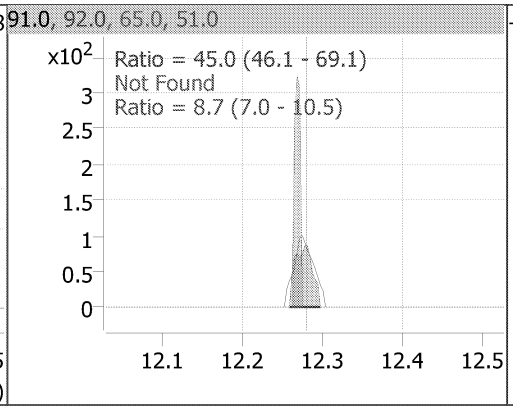

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | N.D. | 11.99 | 83.0 | 89.6 | 61.0 | 71.0 | 99.0 | 62.7 |

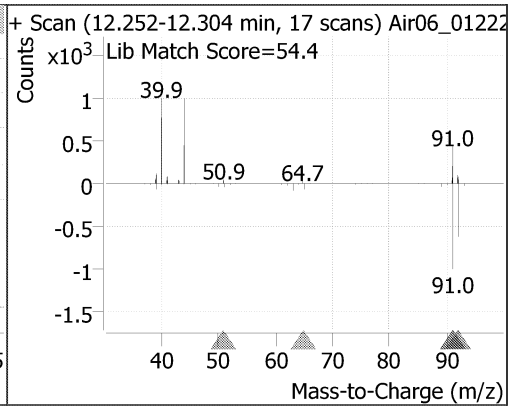


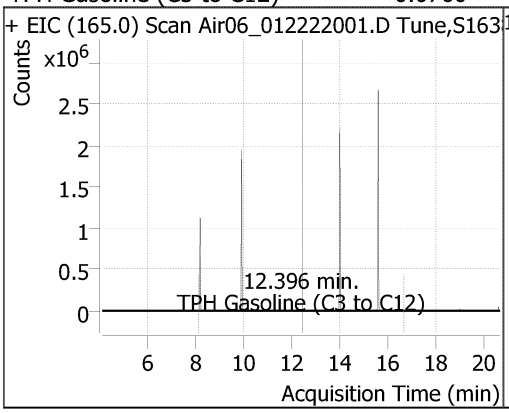
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.0026 | 12.27 | 0.00 | 480 | 92.0 | 45.0 | 46.1 | 69.1 |
| | | | | | 65.0 | | 10.2 | 15.4 |
| | | | | | 51.0 | 8.7 | 7.0 | 10.5 |

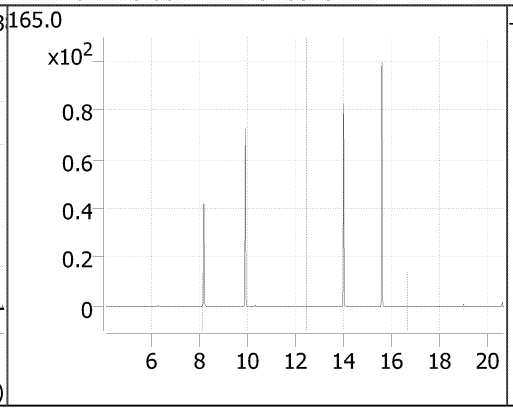


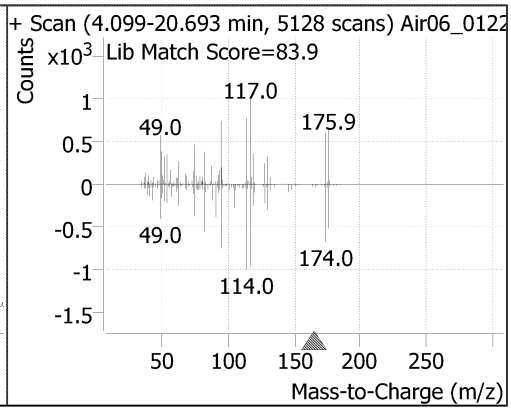



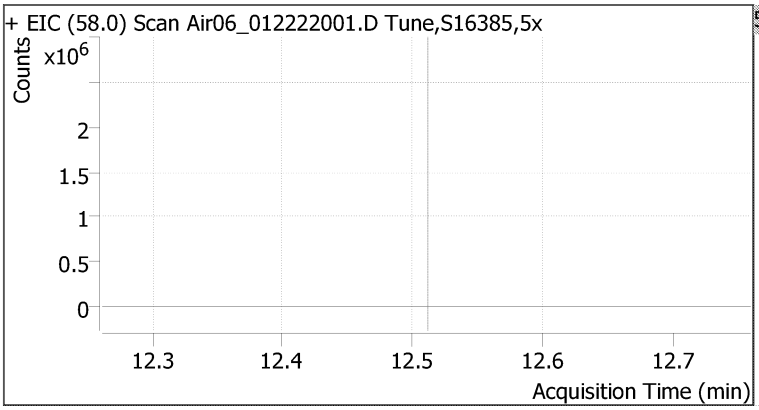

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 0.0760 | 12.40 | 0.00 | 940329 | | | | |

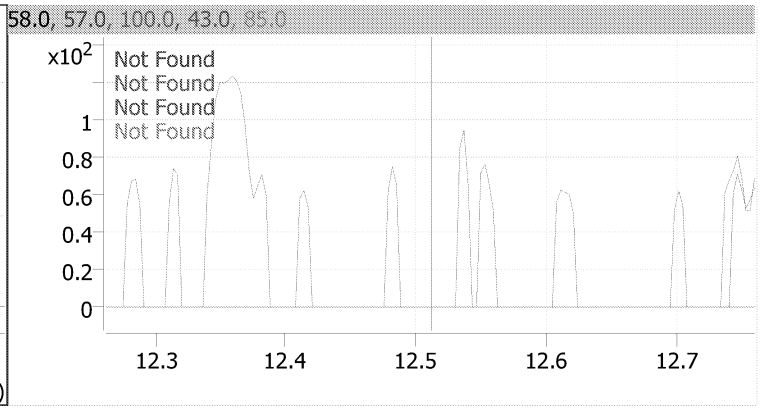


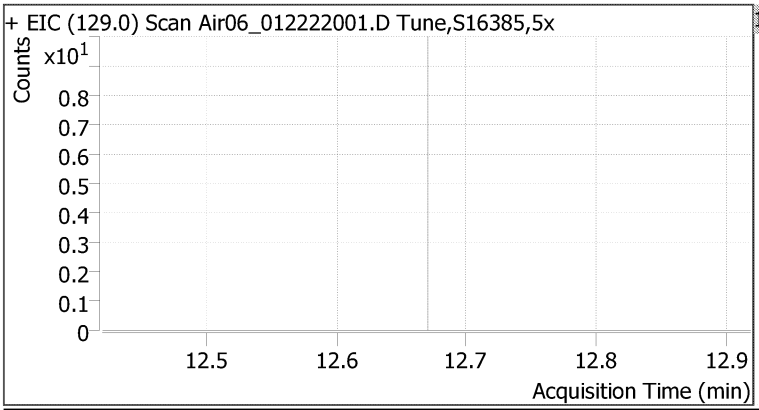



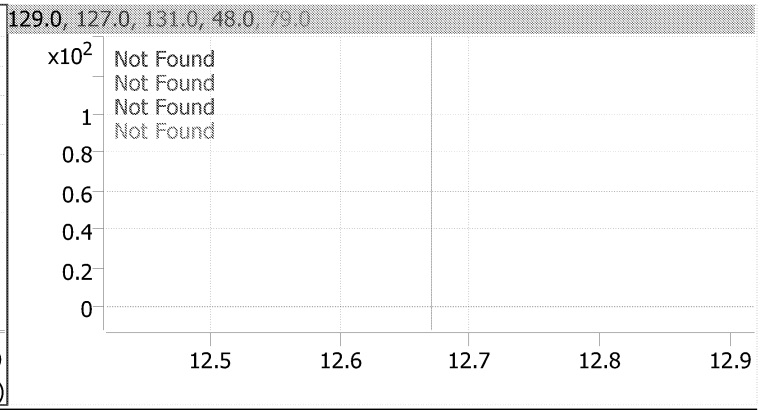

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | N.D. | 12.51 | 43.0 | 200.0 | 57.0 | 35.1 | 100.0 | 14.9 |



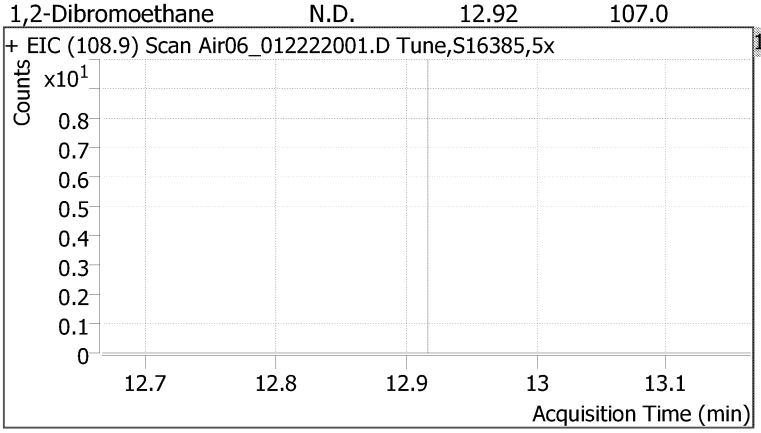



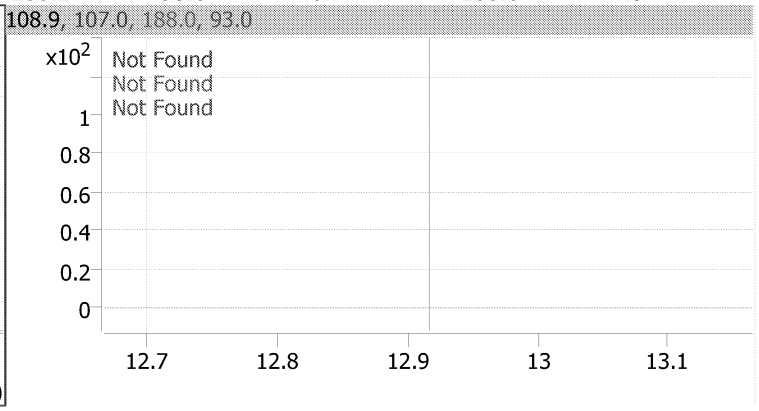

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | N.D. | 12.67 | 127.0 | 77.5 | 131.0 | 24.2 | 48.0 | 17.5 |



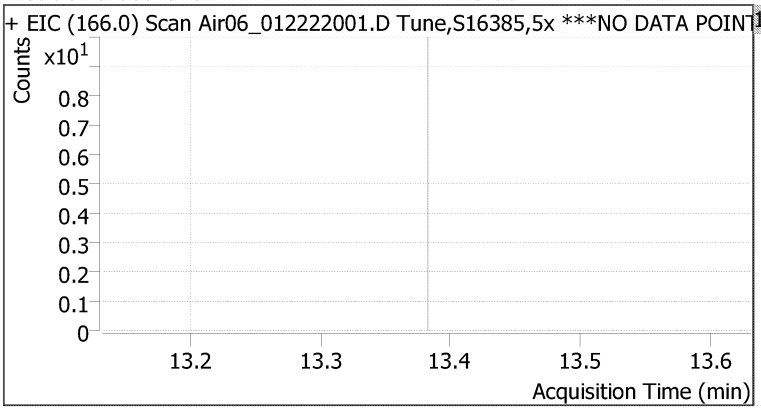



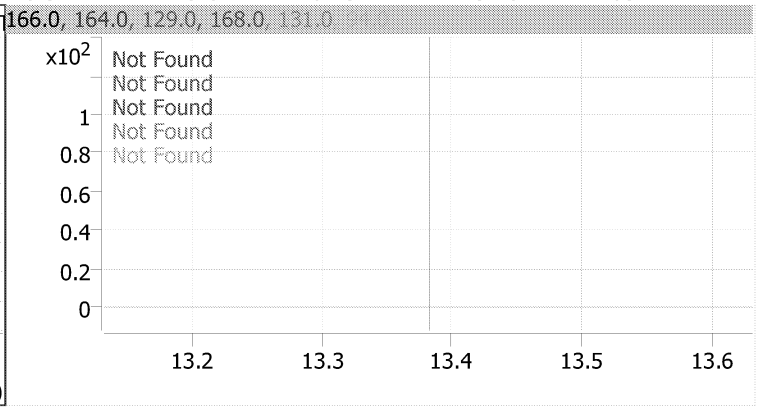
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | N.D. | 12.92 | 107.0 | 106.2 | 93.0 | 6.7 | 188.0 | 4.3 |



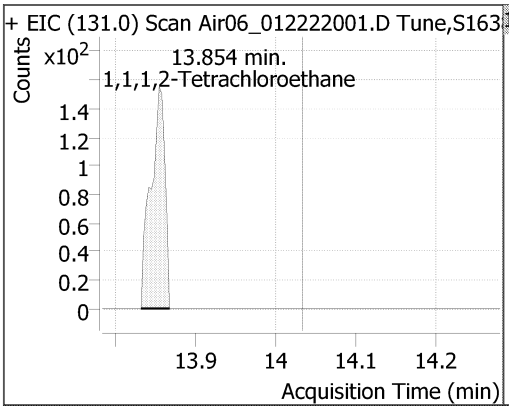



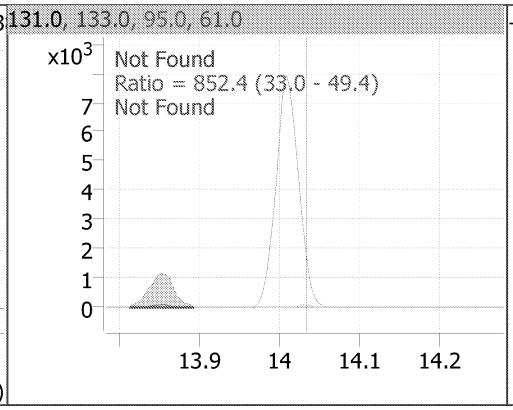

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | N.D. | 13.38 | 164.0 | 78.3 | 129.0 | 67.5 | 131.0 | 65.2 |

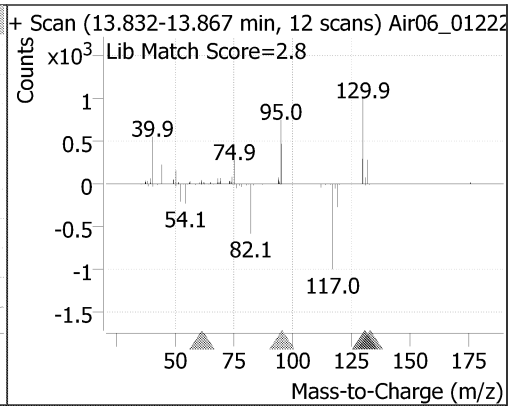


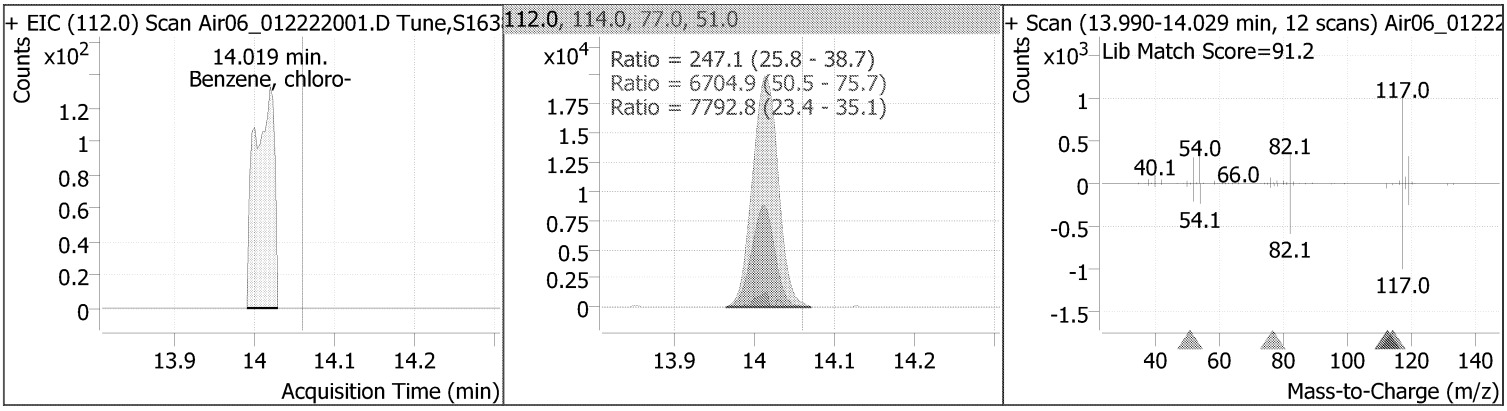

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.0029 | 13.85 | -0.18 | 192 | 133.0 | | 76.9 | 115.3 |
| | | | | | 95.0 | 852.4 | 33.0 | 49.4 |
| | | | | | 61.0 | | 25.4 | 38.1 |



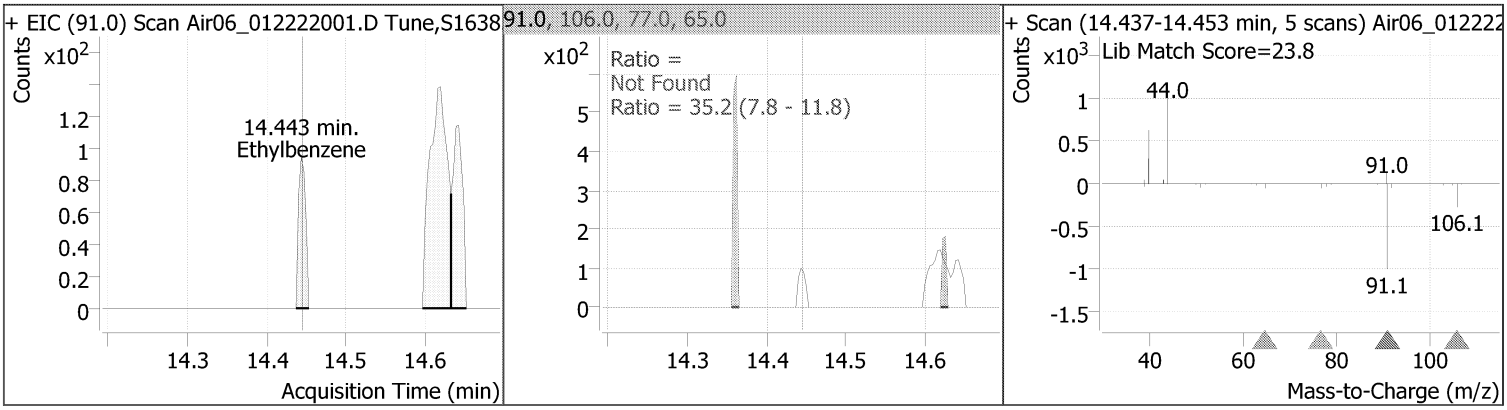



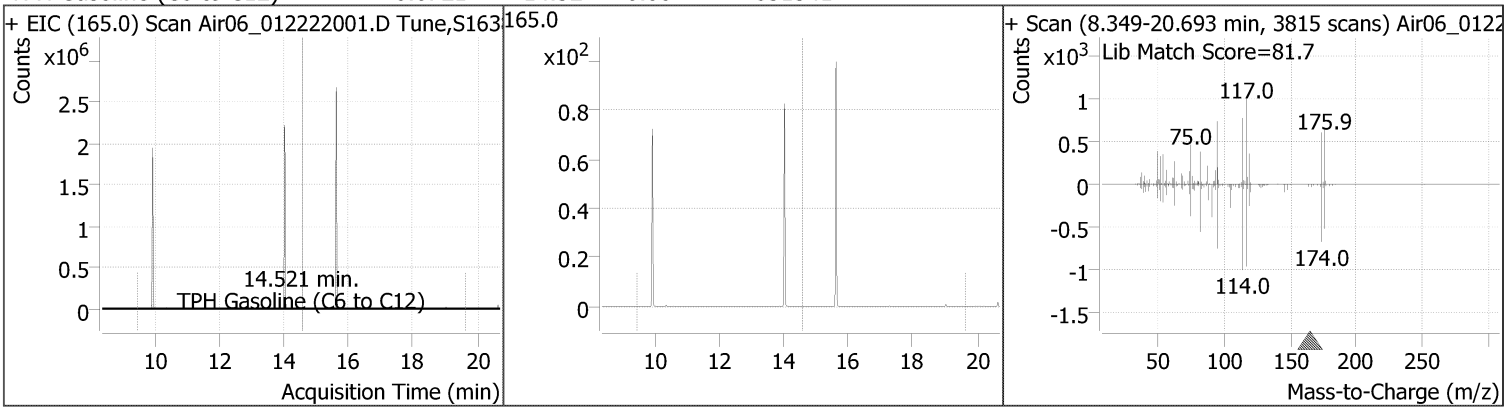
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.0017 | 14.02 | -0.04 | 225 | 77.0 | 6704.9 | 50.5 | 75.7 |
| | | | | | 114.0 | 247.1 | 25.8 | 38.7 |
| | | | | | 51.0 | 7792.8 | 23.4 | 35.1 |



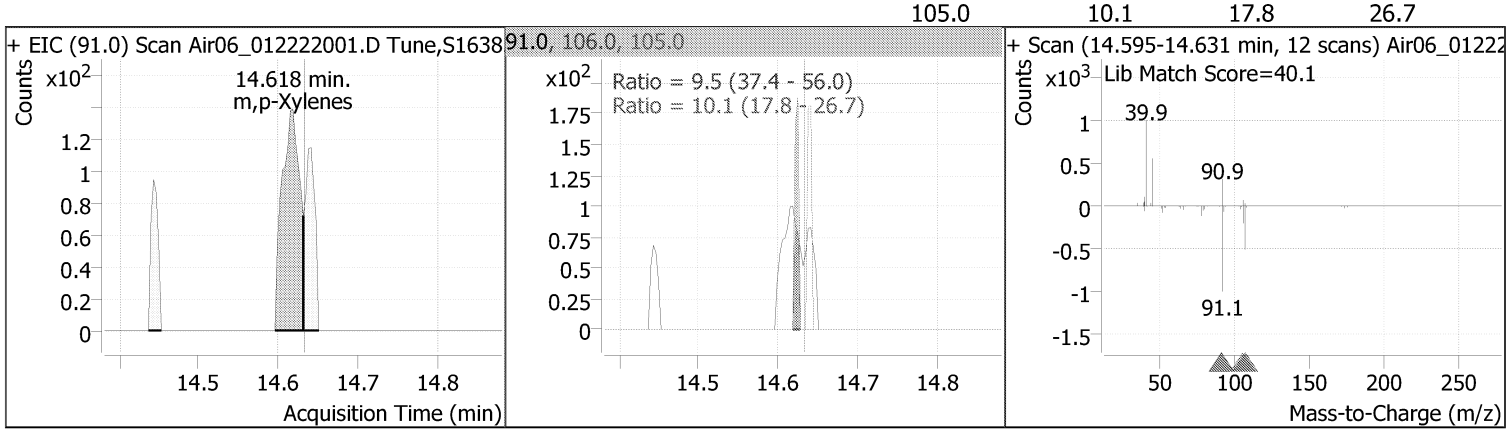

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0003 | 14.44 | 0.00 | 60 | 106.0 | | 24.2 | 36.3 |
| | | | | | 65.0 | 35.2 | 7.8 | 11.8 |
| | | | | | 77.0 | | 7.1 | 10.6 |



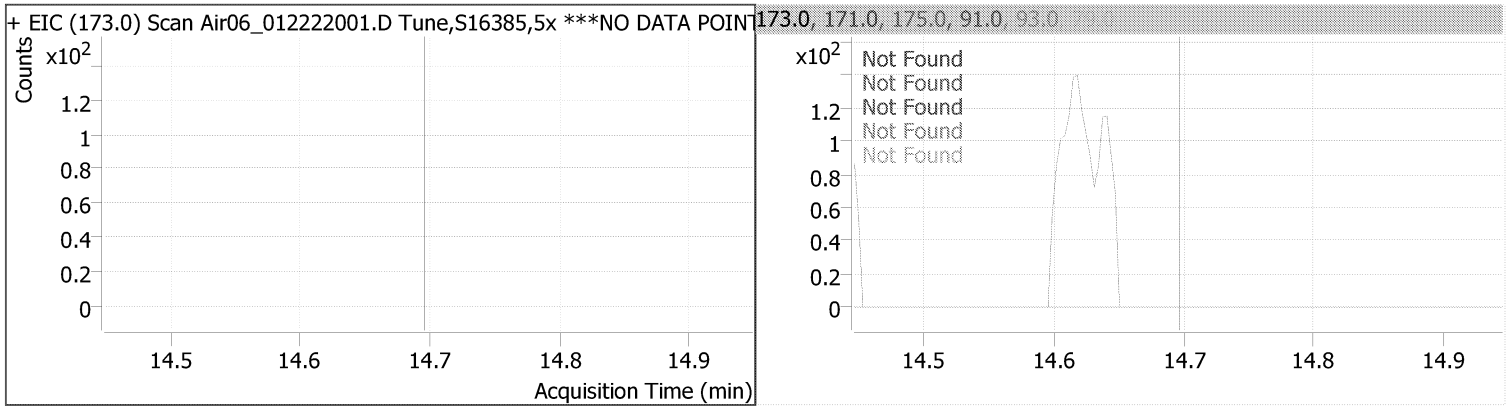

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 0.0721 | 14.52 | 0.00 | 651541 | | | | |



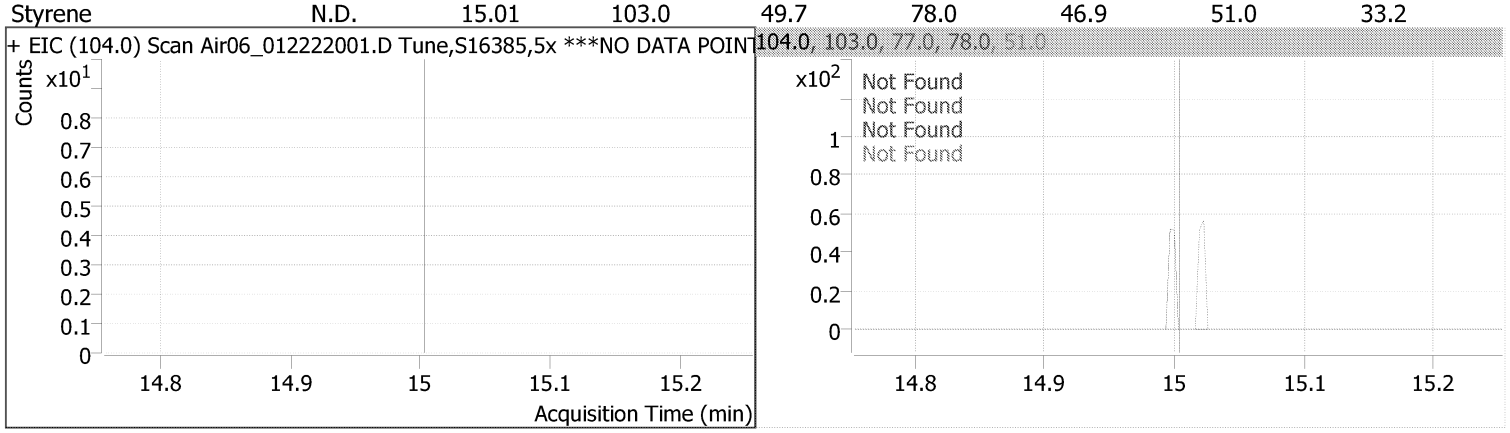
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.0013 | 14.62 | -0.02 | 212 | 106.0 | 9.5 | 37.4 | 56.0 |
| | | | | | 105.0 | 10.1 | 17.8 | 26.7 |



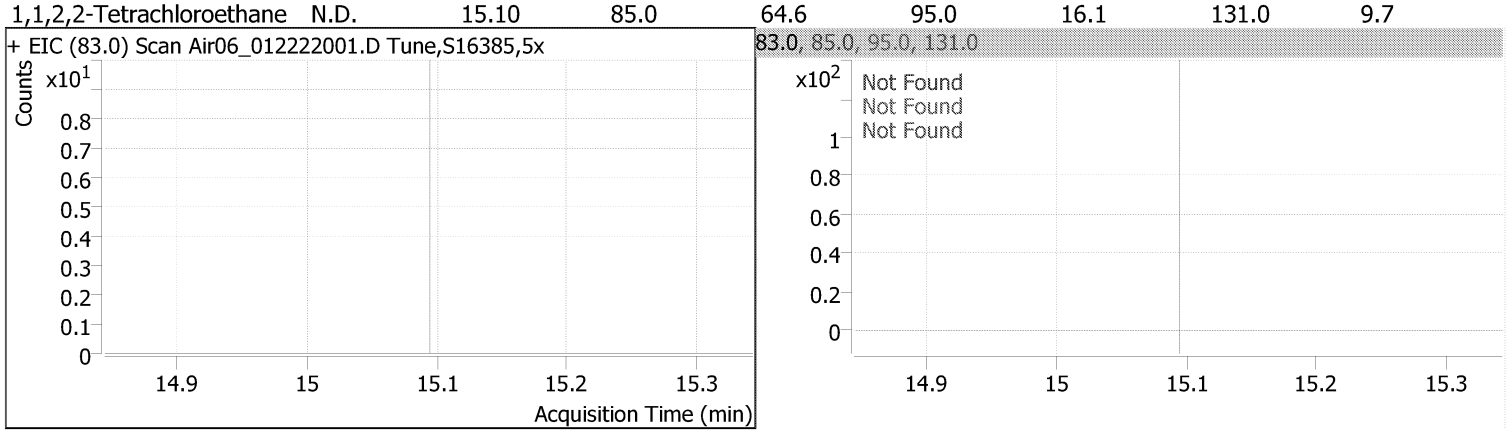

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Bromoform | N.D. | 14.70 | 171.0 | 51.3 | 175.0 | 49.1 | 93.0 | 19.2 |



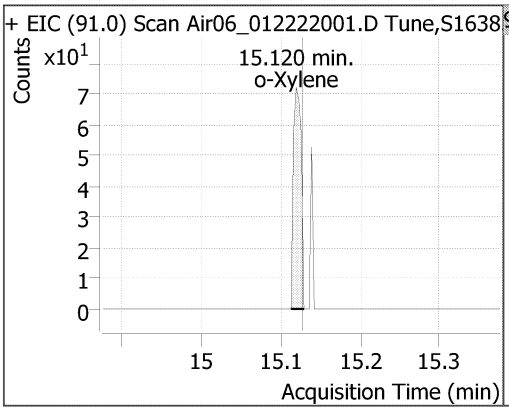

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| Styrene | N.D. | 15.01 | 103.0 | 49.7 | 78.0 | 46.9 | 51.0 | 33.2 |

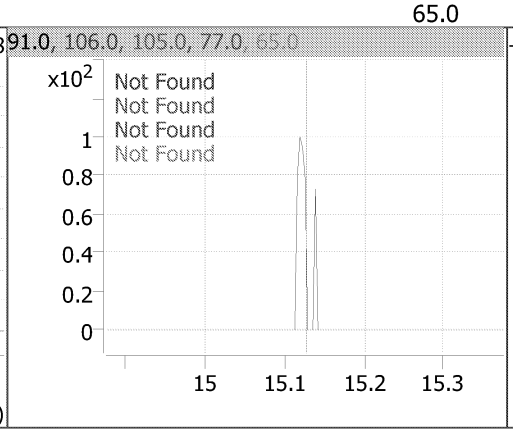


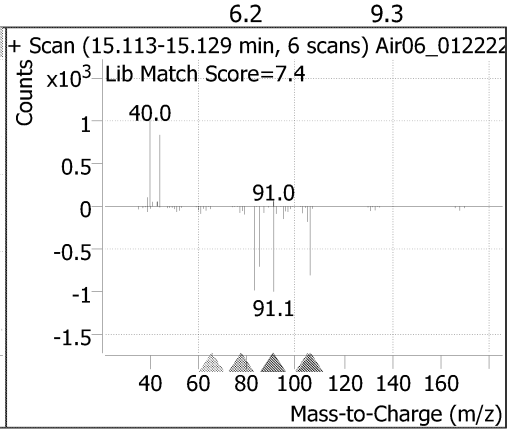

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | N.D. | 15.10 | 85.0 | 64.6 | 95.0 | 16.1 | 131.0 | 9.7 |



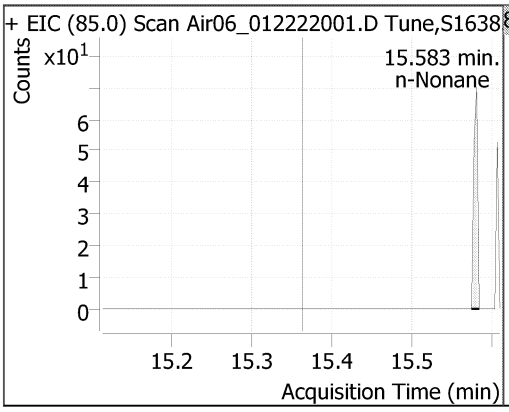
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.0003 | 15.12 | -0.01 | 49 | 106.0 | | 35.3 | 53.0 |
| | | | | | 105.0 | | 15.2 | 22.8 |
| | | | | | 77.0 | | 10.1 | 15.2 |
| | | | | | 65.0 | | 6.2 | 9.3 |

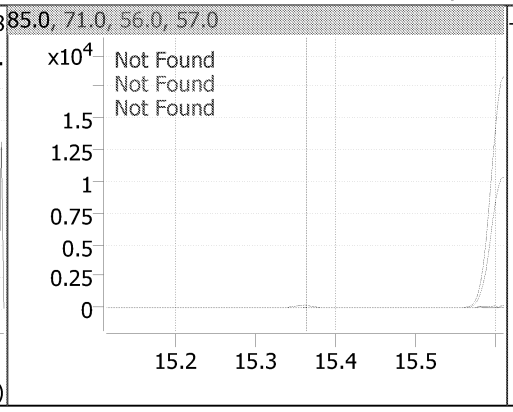


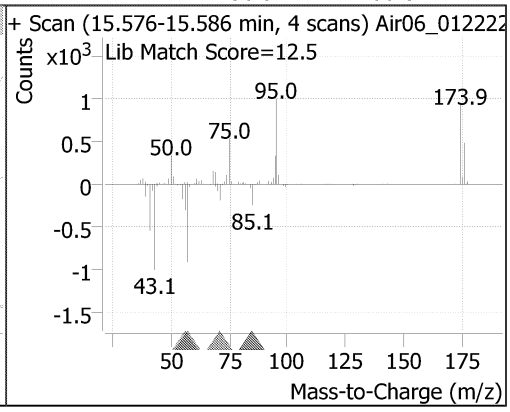



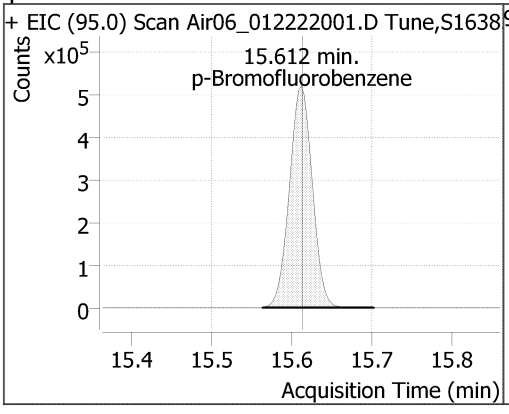

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.0006 | 15.58 | 0.22 | 24 | 57.0 | | 260.4 | 390.6 |
| | | | | | 56.0 | | 63.6 | 95.5 |
| | | | | | 71.0 | | 58.9 | 88.3 |

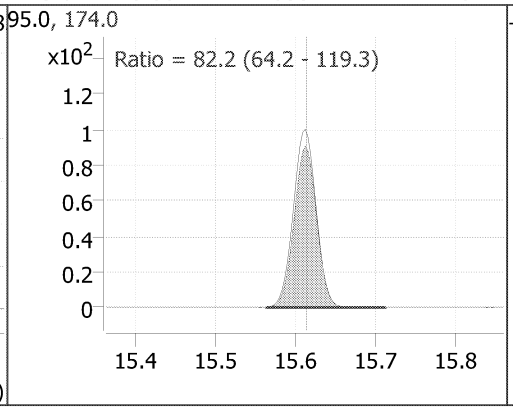


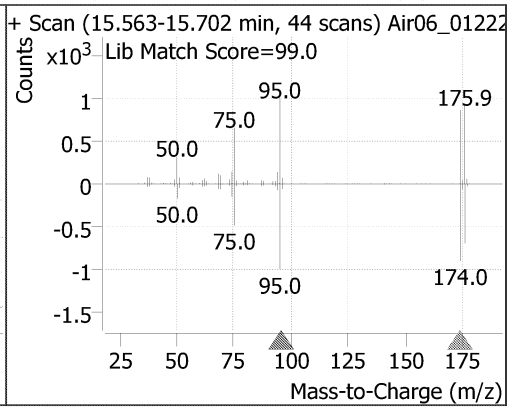



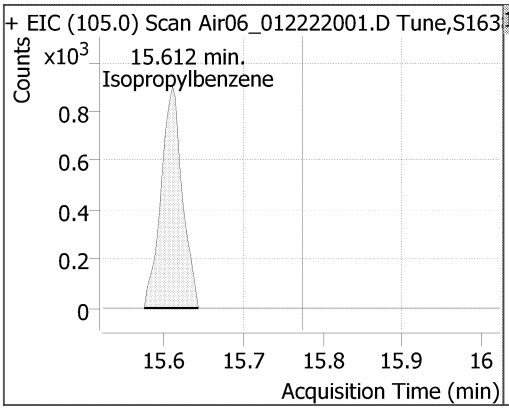

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.2514 | 15.61 | 0.00 | 1035472 | 174.0 | 82.2 | 64.2 | 119.3 |

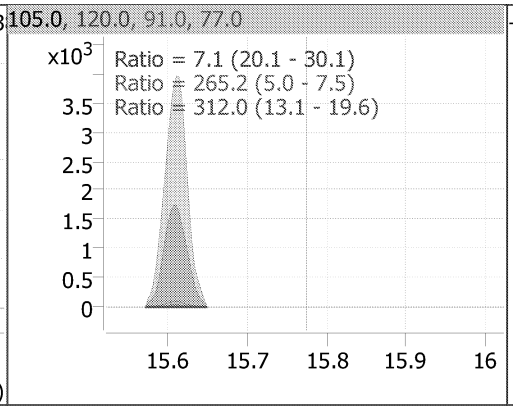


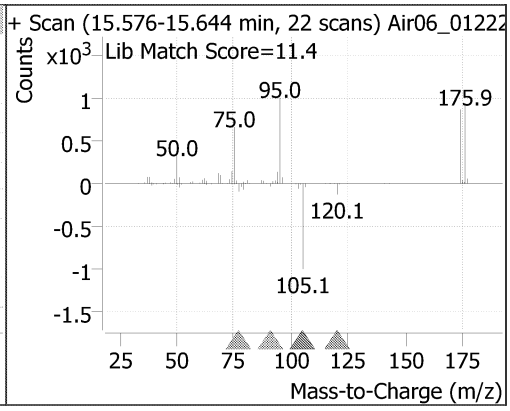



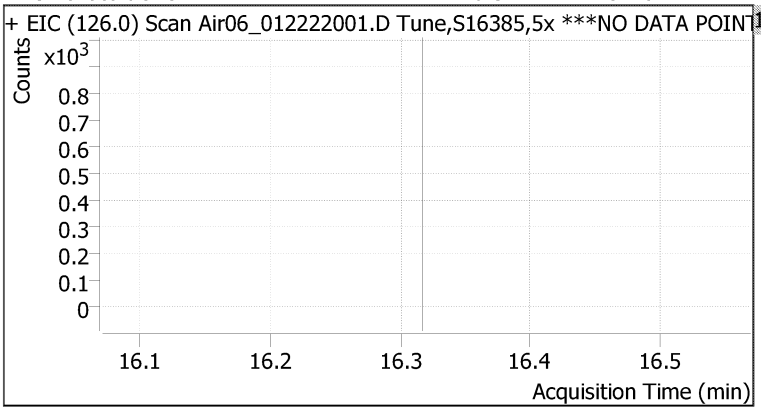
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.0071 | 15.61 | -0.17 | 1672 | 120.0 | 7.1 | 20.1 | 30.1 |
| | | | | | 77.0 | 312.0 | 13.1 | 19.6 |
| | | | | | 91.0 | 265.2 | 5.0 | 7.5 |

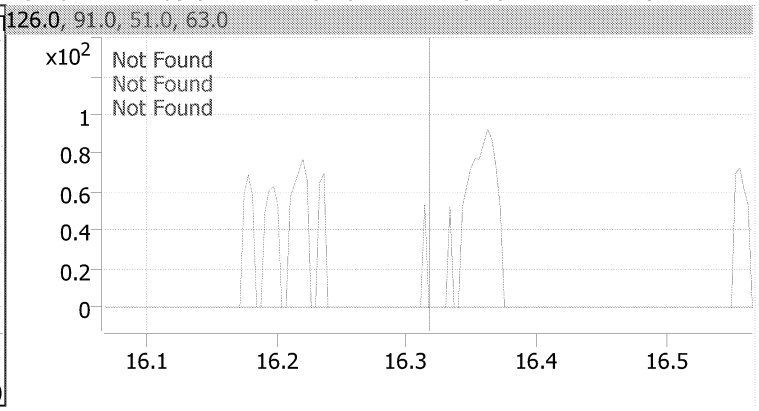


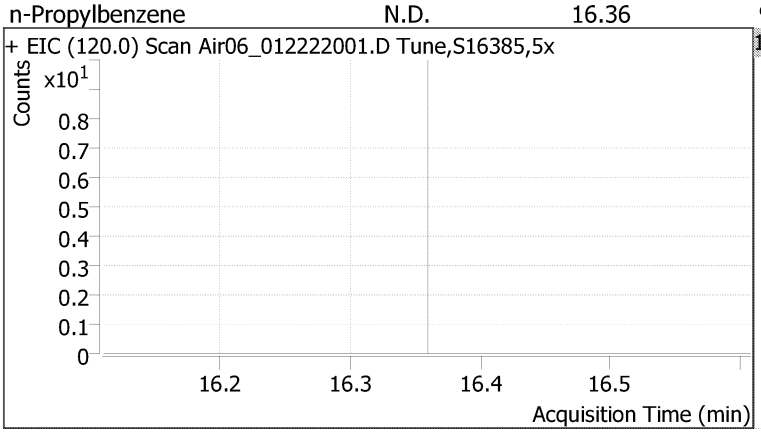



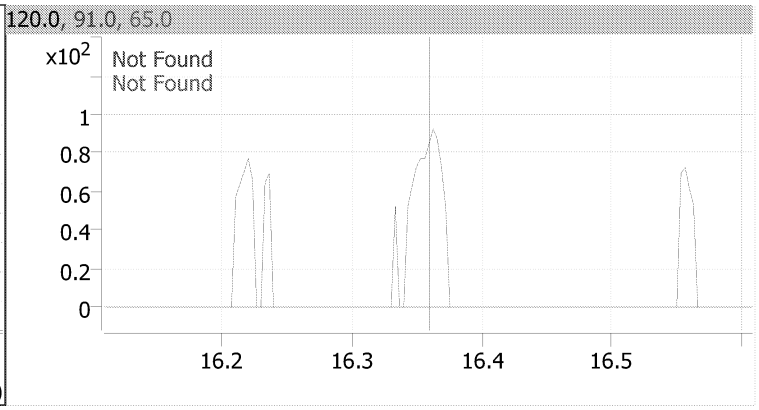

| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | N.D. | 16.32 | 91.0 | 291.0 | 63.0 | 51.0 | 51.0 | 17.5 |



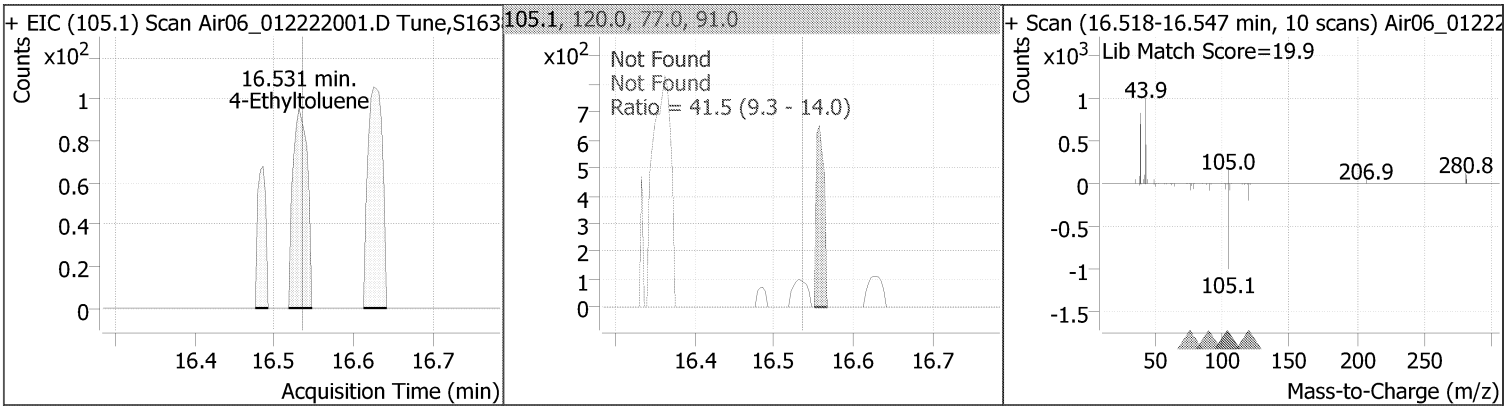




| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| n-Propylbenzene | N.D. | 16.36 | 91.0 | 486.4 | 65.0 | 56.1 |

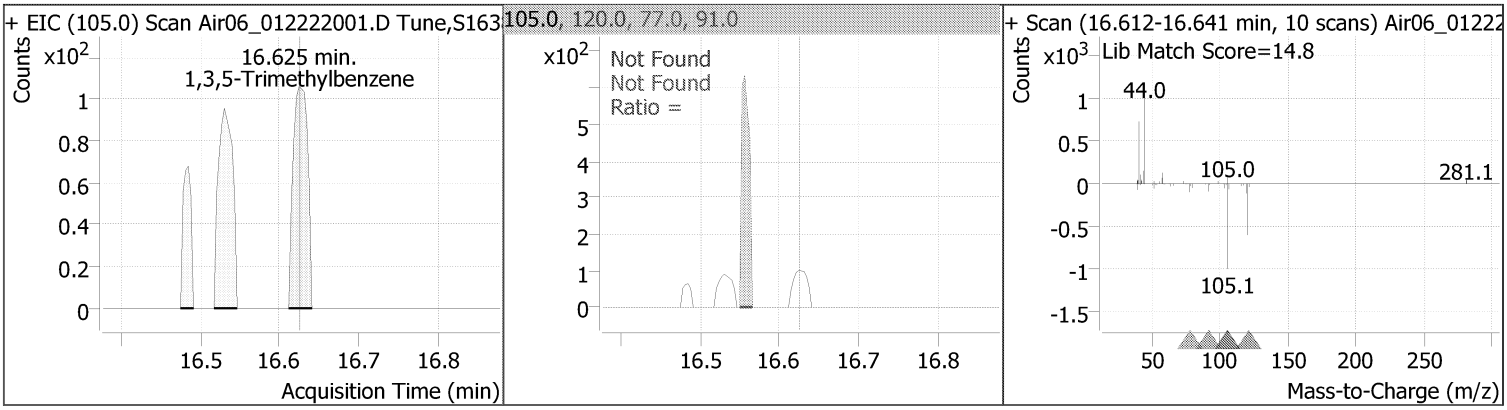


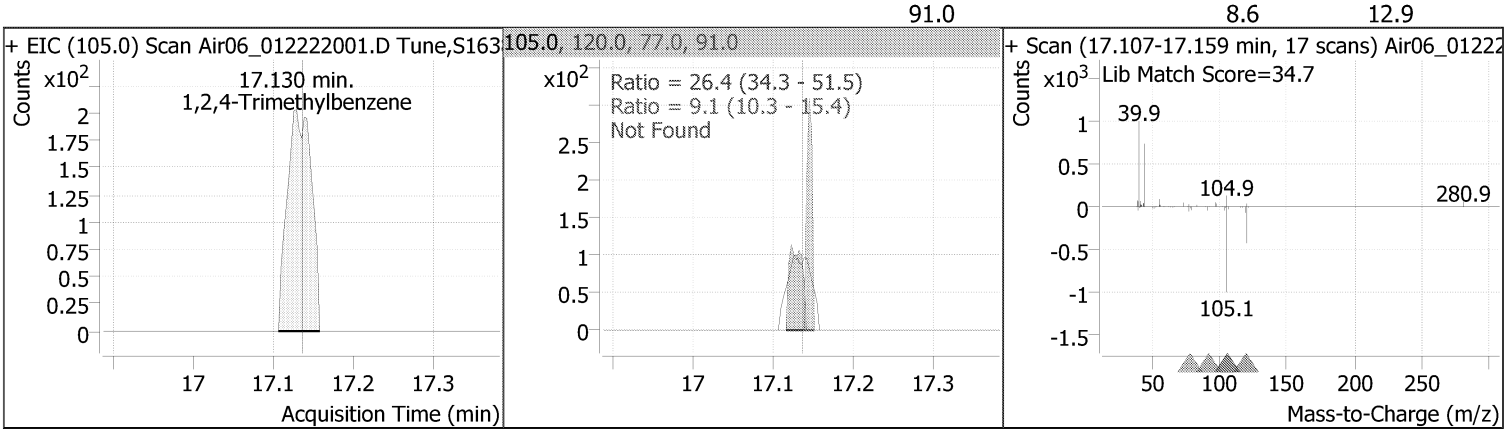
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.0005 | 16.53 | -0.01 | 120 | 120.0 | | 22.7 | 34.1 |
| | | | | | 77.0 | | 9.6 | 14.4 |
| | | | | | 91.0 | 41.5 | 9.3 | 14.0 |



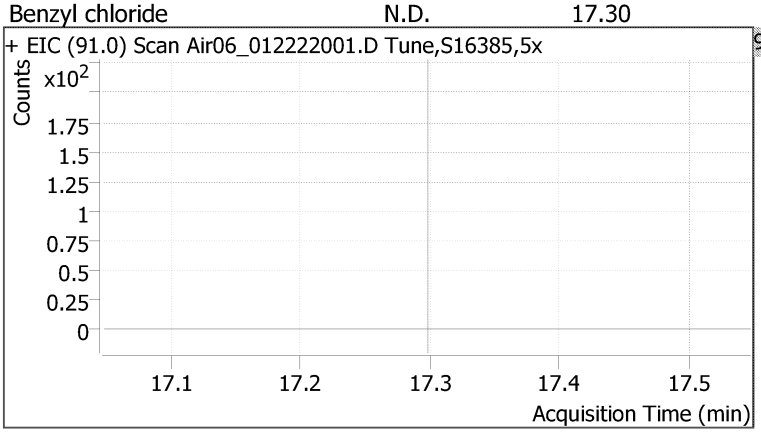

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.0007 | 16.62 | -0.01 | 135 | 120.0 | | 36.5 | 54.7 |
| | | | | | 77.0 | | 10.5 | 15.8 |
| | | | | | 91.0 | | 8.6 | 13.0 |

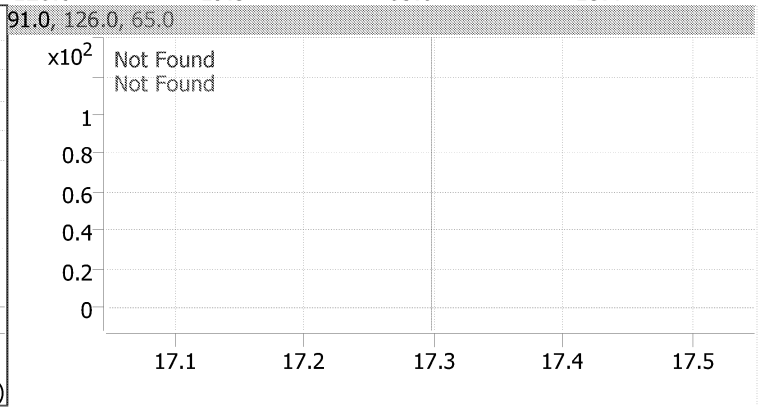



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.0021 | 17.13 | -0.01 | 431 | 120.0 | 26.4 | 34.3 | 51.5 |
| | | | | | 77.0 | 9.1 | 10.3 | 15.4 |
| | | | | | 91.0 | | 8.6 | 12.9 |

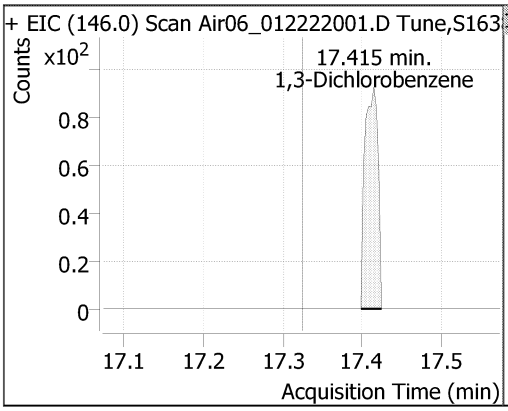


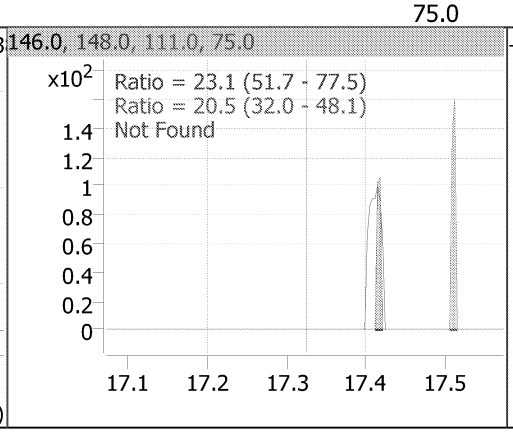
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|
| Benzyl chloride | N.D. | 17.30 | 126.0 | 19.3 | 65.0 | 13.4 |

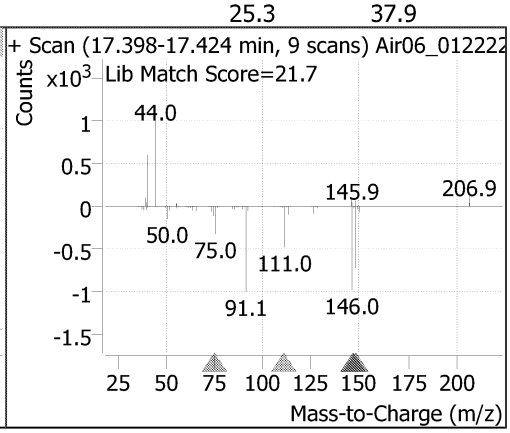


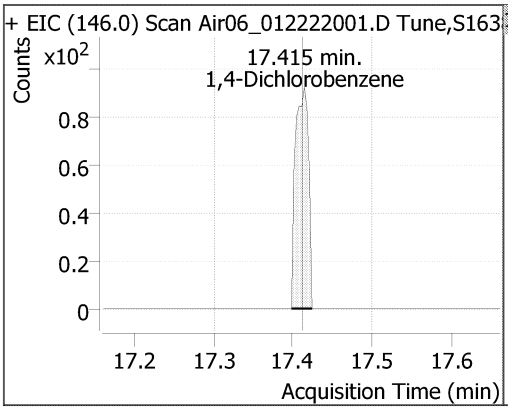

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.0008 | 17.41 | 0.09 | 106 | 148.0 | 23.1 | 51.7 | 77.5 |
| | | | | | 111.0 | 20.5 | 32.0 | 48.1 |
| | | | | | 75.0 | | 25.3 | 37.9 |

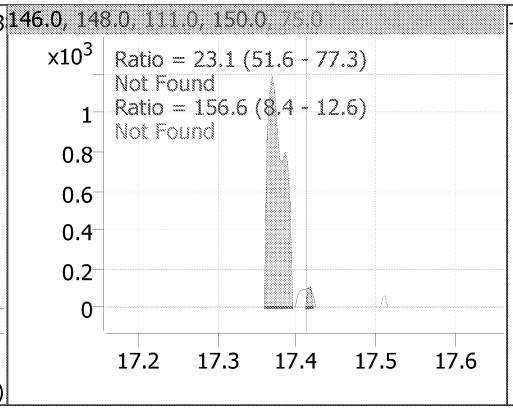


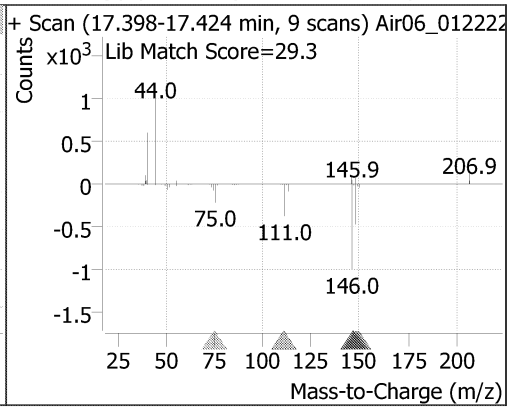



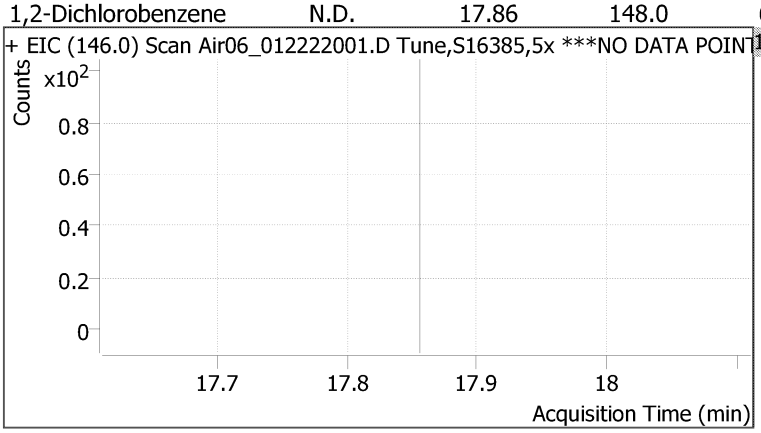

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.0008 | 17.41 | 0.00 | 106 | 148.0 | 23.1 | 51.6 | 77.3 |
| | | | | | 111.0 | | 31.0 | 46.4 |
| | | | | | 75.0 | | 24.7 | 37.0 |
| | | | | | 150.0 | 156.6 | 8.4 | 12.6 |

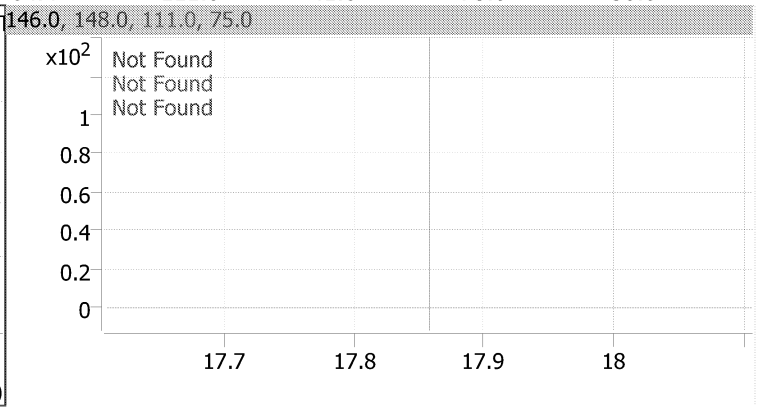


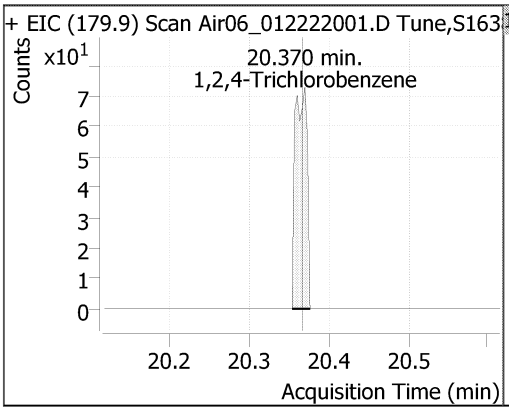



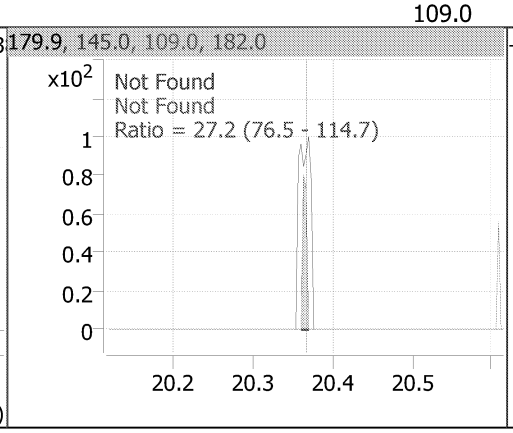
| Compound | Conc. | Exp RT | QIon | Exp Ratio | QIon | Exp Ratio | QIon | Exp Ratio |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | N.D. | 17.86 | 148.0 | 64.4 | 111.0 | 41.6 | 75.0 | 30.6 |

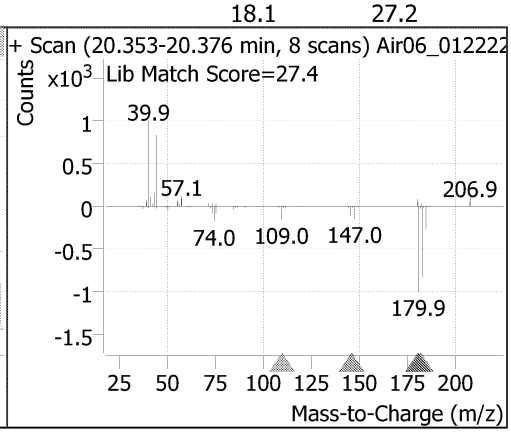


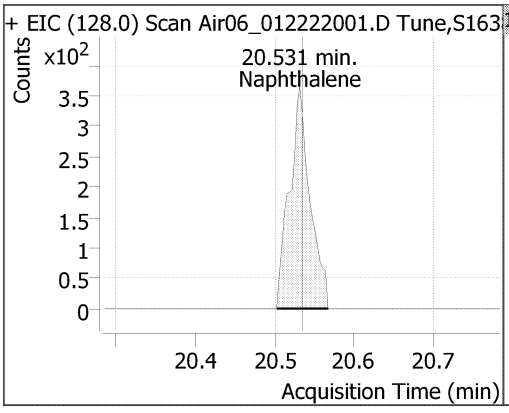

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.0007 | 20.37 | 0.00 | 76 | 182.0 | 27.2 | 76.5 | 114.7 |
| | | | | | 145.0 | | 22.2 | 33.3 |
| | | | | | 109.0 | | 18.1 | 27.2 |

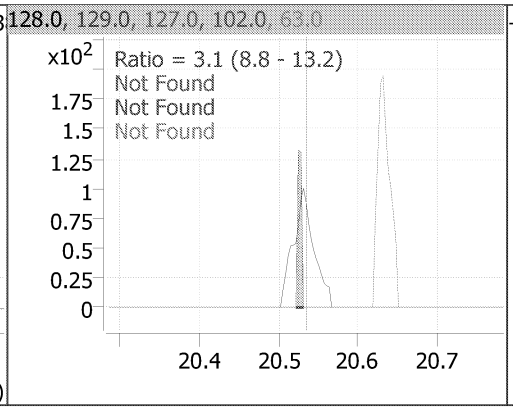


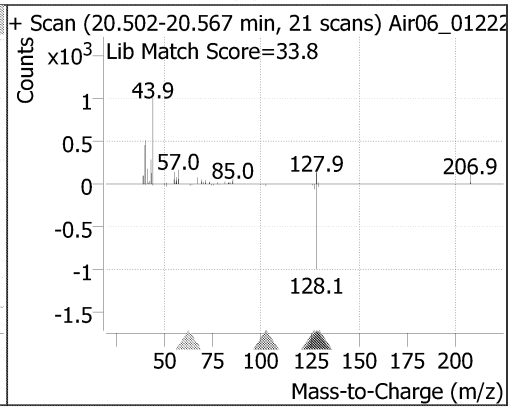



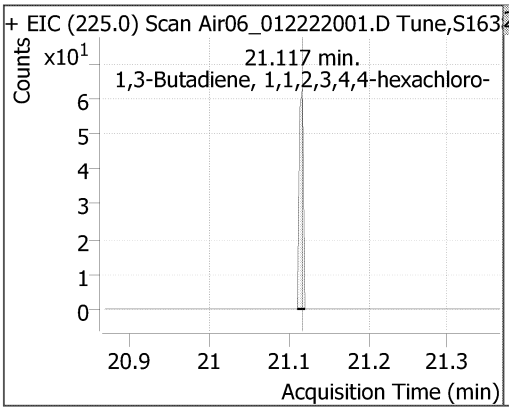

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.0029 | 20.53 | -0.01 | 656 | 127.0 | | 10.7 | 16.1 |
| | | | | | 129.0 | 3.1 | 8.8 | 13.2 |
| | | | | | 102.0 | | 7.6 | 11.5 |
| | | | | | 63.0 | | 5.9 | 8.8 |

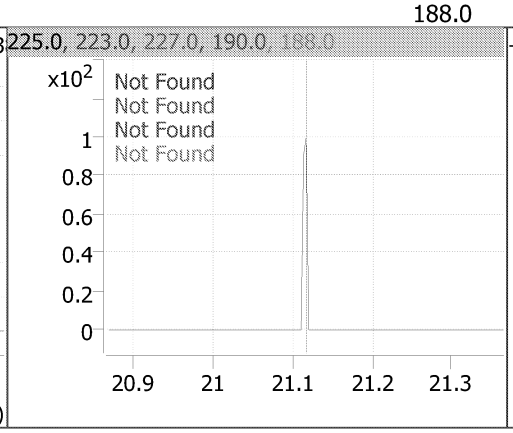


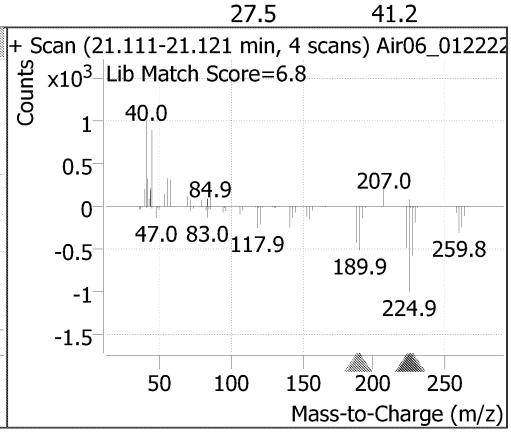



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.0002 | 21.12 | 0.00 | 24 | 227.0 | | 51.2 | 76.7 |
| | | | | | 223.0 | | 50.5 | 75.7 |
| | | | | | 190.0 | | 34.9 | 52.3 |
| | | | | | 188.0 | | 27.5 | 41.2 |

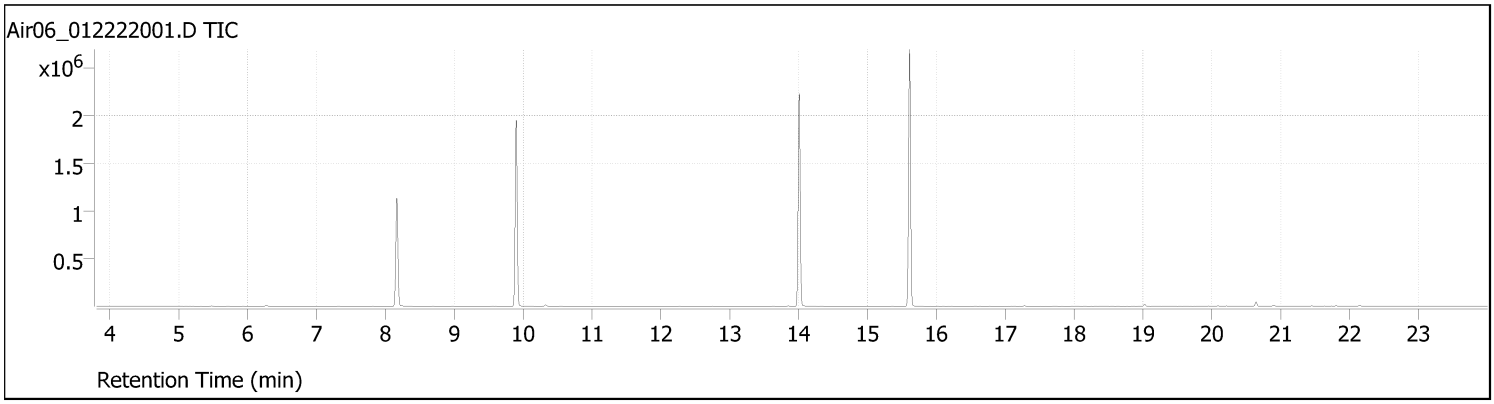


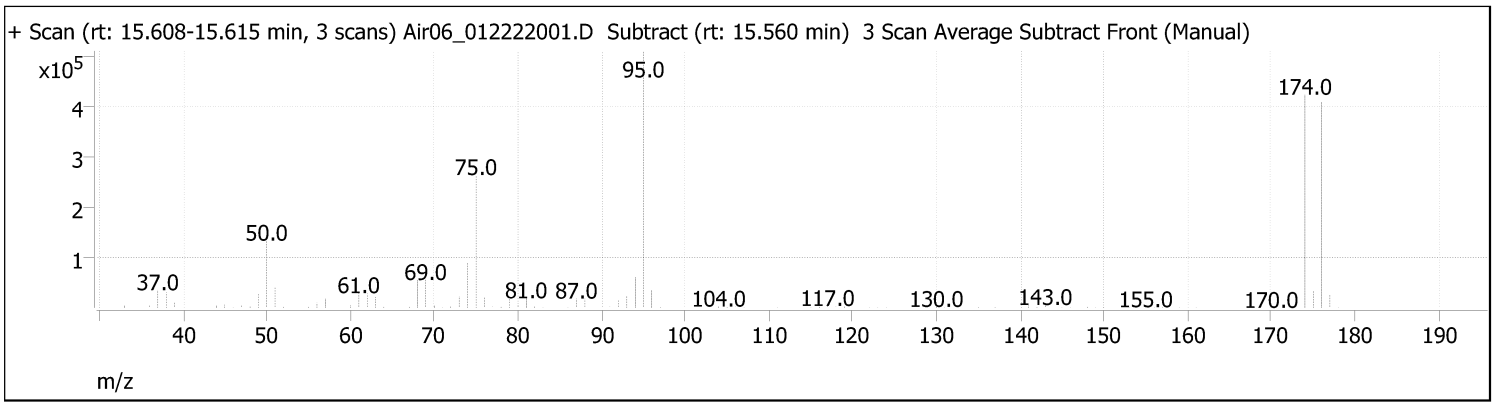



# Tune Evaluation Report

| | |
|---|---|
| Data Path: | D:\MassHunter\GCMS\1\data\2022\220122\Air06_012222001.D |
| Acq on: | 1/22/2022 10:32:49 AM |
| Operator: | DJL/LJB/ZNZ |
| Sample: | Tune,S16385,5x |
| Inst Name: | Air-MS-06 |
| ALS Vial: | 5 |
| Method: | |




| Target Mass | Rel. To Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 26.1 | 132897 | Pass |
| 75 | 95 | 30 | 60 | 51.7 | 262793 | Pass |
| 95 | 95 | 100 | 100 | 100.0 | 508681 | Pass |
| 96 | 95 | 5 | 9 | 6.8 | 34395 | Pass |
| 173 | 174 | 0 | 2 | 0.0 | 0 | Pass |
| 174 | 95 | 50 | 100 | 83.0 | 422134 | Pass |
| 175 | 174 | 5 | 9 | 7.8 | 32902 | Pass |
| 176 | 174 | 95 | 101 | 96.7 | 408059 | Pass |
| 177 | 176 | 5 | 9 | 6.5 | 26598 | Pass |

# ENTHALPY INITIAL CALIBRATION FOR 456991 MSAIR Air: EPA TO-15

Inst : AIR-MS-06
Calnum : 372007975001
Units : nL/L

Name : TO15_220105
Date : 05-JAN-2022 14:23
X Axis : R

| Level | File | Seqnum | Sample ID | Analyzed | Stds |
|---|---|---|---|---|---|
| L1 | air06_010522004 | 372007975004 | 0.2PPBV | 05-JAN-2022 15:07 | S16367 (10X), S16298 (5X) |
| L2 | air06_010522005 | 372007975005 | 0.5PPBV | 05-JAN-2022 15:52 | S16367 (4X), S16298 (5X) |
| L3 | air06_010522006 | 372007975006 | 1PPBV | 05-JAN-2022 18:11 | S16367 (2X), S16298 (5X) |
| L4 | air06_010522007 | 372007975007 | 2PPBV | 05-JAN-2022 19:02 | S16367, S16298 (5X) |
| L5 | air06_010522008 | 372007975008 | 5PPBV | 05-JAN-2022 19:47 | S16363 (8X), S16298 (5X) |
| L6 | air06_010522009 | 372007975009 | 10PPBV | 05-JAN-2022 20:32 | S16363 (4X), S16298 (5X) |
| L7 | air06_010522010 | 372007975010 | 20PPBV | 05-JAN-2022 21:19 | S16363 (2X), S16298 (5X) |
| L8 | air06_010522011 | 372007975011 | 40PPBV | 05-JAN-2022 22:09 | S16363, S16298 (5X) |

| Analyte | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | Type | a0 | a1 | a2 | Avg | r^2 %RSD | MnR^2 | MxRSD | Flg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1.3111 | 0.7735 | 0.7817 | 0.7807 | 1.0164 | 0.8639 | 0.7234 | 0.6530 | AVRG | | 1.15880 | | 0.8630 | 24 | 1 | 30 | |
| Freon 12 | 3.9307 | 2.3441 | 2.2195 | 2.2758 | 3.0294 | 2.6289 | 2.2506 | 2.1698 | AVRG | | 0.38371 | | 2.6061 | 23 | 1 | 30 | |
| Freon 114 | 2.7368 | 1.6620 | 1.6318 | 1.6032 | 2.1251 | 1.8430 | 1.5840 | 1.5226 | AVRG | | 0.54390 | | 1.8386 | 22 | 1 | 30 | |
| Chloromethane | 1.9196 | 1.0979 | 1.0433 | 1.0515 | 1.3929 | 1.2133 | 1.0488 | 1.0294 | AVRG | | 0.81661 | | 1.2246 | 25 | 1 | 30 | |
| Vinyl Chloride | 1.8834 | 1.0989 | 1.0764 | 1.0558 | 1.4007 | 1.2121 | 1.0488 | 1.0229 | AVRG | | 0.81641 | | 1.2249 | 24 | 1 | 30 | |
| Bromomethane | 1.3455 | 0.8001 | 0.7951 | 0.7923 | 1.0390 | 0.9064 | 0.7769 | 0.7594 | AVRG | | 1.10886 | | 0.9018 | 22 | 1 | 30 | |
| Chloroethane | 0.9251 | 0.5294 | 0.5305 | 0.5277 | 0.6879 | 0.6028 | 0.5192 | 0.5078 | AVRG | | 1.65617 | | 0.6038 | 24 | 1 | 30 | |
| Trichlorofluoromethane | 4.6492 | 2.7722 | 2.7341 | 2.7008 | 3.5654 | 3.0679 | 2.6030 | 2.4805 | AVRG | | 0.32556 | | 3.0717 | 23 | 1 | 30 | |
| 1,1-Dichloroethene | 3.4470 | 2.0849 | 2.0155 | 2.0133 | 2.6316 | 2.2790 | 1.9343 | 1.8888 | AVRG | | 0.43729 | | 2.2868 | 23 | 1 | 30 | |
| Freon 113 | 3.7957 | 2.2338 | 2.1903 | 2.1641 | 2.8437 | 2.4313 | 2.0881 | 2.0019 | AVRG | | 0.40509 | | 2.4686 | 24 | 1 | 30 | |
| Acetone | | 0.6630 | 0.6284 | 0.6115 | 0.7430 | 0.6435 | 0.5608 | 0.5493 | AVRG | | 1.59107 | | 0.6285 | 10 | 1 | 30 | |
| Carbon Disulfide | 4.8900 | 2.9036 | 2.8456 | 2.8194 | 3.6393 | 3.1556 | 2.7125 | 2.6176 | AVRG | | 0.31270 | | 3.1980 | 24 | 1 | 30 | |
| Isopropanol (IPA) | | 2.1649 | 2.1422 | 2.1287 | 2.7887 | 2.4113 | 2.0901 | 2.0291 | AVRG | | 0.44430 | | 2.2507 | 12 | 1 | 30 | |
| Methylene Chloride | 1.8269 | 1.0679 | 0.9922 | 0.9612 | 1.2081 | 1.0354 | 0.8909 | 0.8693 | AVRG | | 0.90377 | | 1.1065 | 28 | 1 | 30 | |
| trans-1,2-Dichloroethene | 2.9496 | 1.7049 | 1.6701 | 1.6848 | 2.1737 | 1.8898 | 1.6413 | 1.6075 | AVRG | | 0.52213 | | 1.9152 | 24 | 1 | 30 | |
| MTBE | 4.7596 | 2.7658 | 2.7654 | 2.6985 | 3.5680 | 3.0949 | 2.6690 | 2.6083 | AVRG | | 0.32090 | | 3.1162 | 24 | 1 | 30 | |
| n-Hexane | 3.3736 | 1.9828 | 1.9261 | 1.8963 | 2.4953 | 2.1554 | 1.8690 | 1.8366 | AVRG | | 0.45623 | | 2.1919 | 24 | 1 | 30 | |
| 1,1-Dichloroethane | 3.5919 | 2.1022 | 2.0624 | 2.0494 | 2.6787 | 2.3301 | 2.0219 | 1.9763 | AVRG | | 0.42524 | | 2.3516 | 23 | 1 | 30 | |
| Vinyl Acetate | 6.4996 | 3.7210 | 3.5254 | 3.4319 | 4.3066 | 3.7270 | 3.2074 | 3.1496 | AVRG | | 0.25342 | | 3.9460 | 28 | 1 | 30 | |
| cis-1,2-Dichloroethene | 2.9875 | 1.7494 | 1.6929 | 1.6657 | 2.2045 | 1.9104 | 1.6546 | 1.6319 | AVRG | | 0.51623 | | 1.9371 | 24 | 1 | 30 | |
| 2-Butanone | 4.6512 | 2.7592 | 2.6699 | 2.6376 | 3.4685 | 3.0002 | 2.5867 | 2.5462 | AVRG | | 0.32895 | | 3.0399 | 24 | 1 | 30 | |
| Chloroform | 3.7281 | 2.2425 | 2.1770 | 2.1710 | 2.8365 | 2.4590 | 2.1111 | 2.0479 | AVRG | | 0.40459 | | 2.4716 | 23 | 1 | 30 | |
| 1,1,1-Trichloroethane | 3.6328 | 2.1209 | 2.0977 | 2.0793 | 2.7489 | 2.3829 | 2.0625 | 2.0012 | AVRG | | 0.41827 | | 2.3908 | 23 | 1 | 30 | |
| Carbon Tetrachloride | 3.8304 | 2.2804 | 2.2319 | 2.2267 | 2.9397 | 2.5601 | 2.2067 | 2.1287 | AVRG | | 0.39207 | | 2.5506 | 23 | 1 | 30 | |
| Benzene | 5.5085 | 3.2368 | 3.1280 | 3.0909 | 4.0399 | 3.5018 | 3.0394 | 2.9592 | AVRG | | 0.28066 | | 3.5631 | 24 | 1 | 30 | |

| Analyte | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | Type | a0 | a1 | a2 | Avg | r^2 %RSD | MnR^2 | MxRSD | Flg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 2.7694 | 1.6229 | 1.5918 | 1.5858 | 2.0537 | 1.7868 | 1.5445 | 1.5238 | AVRG | | 0.55254 | | 1.8098 | 23 | 1 | 30 | |
| Trichloroethene | 0.6362 | 0.3756 | 0.3644 | 0.3635 | 0.4761 | 0.4131 | 0.3579 | 0.3466 | AVRG | | 2.39992 | | 0.4167 | 24 | 1 | 30 | |
| 1,2-Dichloropropane | 0.6088 | 0.3541 | 0.3597 | 0.3565 | 0.4715 | 0.4115 | 0.3586 | 0.3561 | AVRG | | 2.44139 | | 0.4096 | 22 | 1 | 30 | |
| Bromodichloromethane | 1.0030 | 0.5863 | 0.5850 | 0.5882 | 0.7691 | 0.6710 | 0.5811 | 0.5632 | AVRG | | 1.49620 | | 0.6684 | 23 | 1 | 30 | |
| cis-1,3-Dichloropropene | 0.1932 | 0.1140 | 0.1126 | 0.1126 | 0.1485 | 0.1306 | 0.1151 | 0.1136 | AVRG | | 7.69058 | | 0.1300 | 22 | 1 | 30 | |
| 4-Methyl-2-Pentanone | 0.5581 | 0.3211 | 0.3121 | 0.3025 | 0.4060 | 0.3562 | 0.3098 | 0.3082 | AVRG | | 2.78354 | | 0.3593 | 24 | 1 | 30 | |
| Toluene | 1.8256 | 1.0594 | 1.0513 | 1.0326 | 1.3449 | 1.1702 | 1.0131 | 0.9852 | AVRG | | 0.84368 | | 1.1853 | 24 | 1 | 30 | |
| trans-1,3-Dichloropropene | 0.1983 | 0.1139 | 0.1141 | 0.1138 | 0.1543 | 0.1358 | 0.1186 | 0.1178 | AVRG | | 7.50098 | | 0.1333 | 22 | 1 | 30 | |
| 1,1,2-Trichloroethane | 0.5783 | 0.3403 | 0.3397 | 0.3413 | 0.4480 | 0.3947 | 0.3418 | 0.3365 | AVRG | | 2.56360 | | 0.3901 | 22 | 1 | 30 | |
| Tetrachloroethene | 0.9294 | 0.5461 | 0.5317 | 0.5326 | 0.7061 | 0.6118 | 0.5303 | 0.5144 | AVRG | | 1.63187 | | 0.6128 | 23 | 1 | 30 | |
| 2-Hexanone | 0.6717 | 0.3990 | 0.3885 | 0.3930 | 0.5372 | 0.4760 | 0.4139 | 0.4119 | AVRG | | 2.16721 | | 0.4614 | 21 | 1 | 30 | |
| Dibromochloromethane | 1.0436 | 0.6174 | 0.6140 | 0.6170 | 0.8217 | 0.7202 | 0.6243 | 0.6069 | AVRG | | 1.41215 | | 0.7081 | 22 | 1 | 30 | |
| 1,2-Dibromoethane | 0.8920 | 0.5283 | 0.5245 | 0.5249 | 0.6895 | 0.6046 | 0.5239 | 0.5131 | AVRG | | 1.66636 | | 0.6001 | 22 | 1 | 30 | |
| Chlorobenzene | 2.7245 | 1.5532 | 1.5449 | 1.5304 | 1.9833 | 1.6871 | 1.4072 | 1.2693 | AVRG | | 0.58395 | | 1.7125 | 27 | 1 | 30 | |
| Ethylbenzene | 4.2498 | 2.4860 | 2.4620 | 2.4352 | 3.1661 | 2.6956 | 2.2496 | 2.0207 | AVRG | | 0.36756 | | 2.7206 | 26 | 1 | 30 | |
| m,p-Xylenes | 3.4398 | 2.0202 | 1.9937 | 1.9748 | 2.5523 | 2.1615 | 1.7829 | 1.5790 | AVRG | | 0.45703 | | 2.1880 | 26 | 1 | 30 | |
| o-Xylene | 3.5637 | 2.0592 | 2.0412 | 2.0283 | 2.6047 | 2.2161 | 1.8379 | 1.6453 | AVRG | | 0.44453 | | 2.2496 | 27 | 1 | 30 | |
| Styrene | 2.7269 | 1.5632 | 1.5536 | 1.5374 | 2.0186 | 1.7185 | 1.4423 | 1.3112 | AVRG | | 0.57672 | | 1.7339 | 26 | 1 | 30 | |
| Bromoform | 2.2631 | 1.3164 | 1.3370 | 1.3391 | 1.7787 | 1.5230 | 1.2797 | 1.1523 | AVRG | | 0.66727 | | 1.4986 | 24 | 1 | 30 | |
| 1,1,2,2-Tetrachloroethane | 2.5934 | 1.4824 | 1.4710 | 1.4835 | 1.9274 | 1.6494 | 1.3745 | 1.2457 | AVRG | | 0.60480 | | 1.6534 | 26 | 1 | 30 | |
| 4-Ethyltoluene | 4.7117 | 2.7297 | 2.7583 | 2.7556 | 3.6101 | 3.0786 | 2.5205 | 2.2484 | AVRG | | 0.32769 | | 3.0516 | 26 | 1 | 30 | |
| 1,3,5-Trimethylbenzene | 4.0711 | 2.4490 | 2.3534 | 2.3738 | 3.1152 | 2.6403 | 2.1830 | 1.9480 | AVRG | | 0.37854 | | 2.6417 | 25 | 1 | 30 | |
| 1,2,4-Trimethylbenzene | 3.9995 | 2.3571 | 2.3494 | 2.3711 | 3.0954 | 2.6510 | 2.1950 | 1.9719 | AVRG | | 0.38113 | | 2.6238 | 25 | 1 | 30 | |
| 1,3-Dichlorobenzene | 2.7898 | 1.6114 | 1.6025 | 1.6166 | 2.1271 | 1.8119 | 1.5020 | 1.3362 | AVRG | | 0.55565 | | 1.7997 | 26 | 1 | 30 | |
| 1,4-Dichlorobenzene | 2.8098 | 1.6146 | 1.6251 | 1.6453 | 2.1400 | 1.8288 | 1.5268 | 1.3686 | AVRG | | 0.54949 | | 1.8199 | 25 | 1 | 30 | |
| Benzyl chloride | 3.2400 | 1.8761 | 1.9491 | 2.0496 | 2.8340 | 2.4891 | 2.1124 | 1.9062 | AVRG | | 0.43345 | | 2.3071 | 22 | 1 | 30 | |
| 1,2-Dichlorobenzene | 2.7016 | 1.5516 | 1.5607 | 1.5760 | 2.0558 | 1.7747 | 1.4798 | 1.3423 | AVRG | | 0.56970 | | 1.7553 | 25 | 1 | 30 | |
| 1,2,4-Trichlorobenzene | 1.9630 | 1.1406 | 1.1839 | 1.2384 | 1.7611 | 1.5979 | 1.3857 | 1.3007 | AVRG | | 0.69136 | | 1.4464 | 21 | 1 | 30 | |
| Hexachlorobutadiene | 2.3875 | 1.3898 | 1.3628 | 1.3768 | 1.8205 | 1.5748 | 1.3229 | 1.1988 | AVRG | | 0.64339 | | 1.5543 | 25 | 1 | 30 | |
| Bromofluorobenzene | 1.3441 | 1.3449 | 1.3486 | 1.3483 | 1.3350 | 1.3144 | 1.2796 | 1.2053 | AVRG | | 0.76045 | | 1.3150 | 4 | 1 | 30 | |

| Spiked Amounts / Drifts | L1 | %D | L2 | %D | L3 | %D | L4 | %D | L5 | %D | L6 | %D | L7 | %D | L8 | %D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.2000 | **52** | 0.5000 | -10 | 1.0000 | -9 | 2.0000 | -10 | 5.0000 | 18 | 10.000 | 0 | 20.000 | -16 | 40.000 | **-24** |
| Freon 12 | 0.2000 | **51** | 0.5000 | -10 | 1.0000 | -15 | 2.0000 | -13 | 5.0000 | 16 | 10.000 | 1 | 20.000 | -14 | 40.000 | -17 |
| Freon 114 | 0.2000 | **49** | 0.5000 | -10 | 1.0000 | -11 | 2.0000 | -13 | 5.0000 | 16 | 10.000 | 0 | 20.000 | -14 | 40.000 | -17 |
| Chloromethane | 0.2000 | **57** | 0.5000 | -10 | 1.0000 | -15 | 2.0000 | -14 | 5.0000 | 14 | 10.000 | -1 | 20.000 | -14 | 40.000 | -16 |
| Vinyl Chloride | 0.2000 | **54** | 0.5000 | -10 | 1.0000 | -12 | 2.0000 | -14 | 5.0000 | 14 | 10.000 | -1 | 20.000 | -14 | 40.000 | -16 |
| Bromomethane | 0.2000 | **49** | 0.5000 | -11 | 1.0000 | -12 | 2.0000 | -12 | 5.0000 | 15 | 10.000 | 1 | 20.000 | -14 | 40.000 | -16 |
| Chloroethane | 0.2000 | **53** | 0.5000 | -12 | 1.0000 | -12 | 2.0000 | -13 | 5.0000 | 14 | 10.000 | 0 | 20.000 | -14 | 40.000 | -16 |
| Trichlorofluoromethane | 0.2000 | **51** | 0.5000 | -10 | 1.0000 | -11 | 2.0000 | -12 | 5.0000 | 16 | 10.000 | 0 | 20.000 | -15 | 40.000 | -19 |
| 1,1-Dichloroethene | 0.2000 | **51** | 0.5000 | -9 | 1.0000 | -12 | 2.0000 | -12 | 5.0000 | 15 | 10.000 | 0 | 20.000 | -15 | 40.000 | -17 |
| Freon 113 | 0.2000 | **54** | 0.5000 | -10 | 1.0000 | -11 | 2.0000 | -12 | 5.0000 | 15 | 10.000 | -2 | 20.000 | -15 | 40.000 | -19 |
| Acetone |  |  | 0.5000 | 5 | 1.0000 | 0 | 2.0000 | -3 | 5.0000 | 18 | 10.000 | 2 | 20.000 | -11 | 40.000 | -13 |
| Carbon Disulfide | 0.2000 | **53** | 0.5000 | -9 | 1.0000 | -11 | 2.0000 | -12 | 5.0000 | 14 | 10.000 | -1 | 20.000 | -15 | 40.000 | -18 |
| Isopropanol (IPA) |  |  | 0.5000 | -4 | 1.0000 | -5 | 2.0000 | -5 | 5.0000 | **24** | 10.000 | 7 | 20.000 | -7 | 40.000 | -10 |
| Methylene Chloride | 0.2000 | **65** | 0.5000 | -3 | 1.0000 | -10 | 2.0000 | -13 | 5.0000 | 9 | 10.000 | -6 | 20.000 | -19 | 40.000 | **-21** |
| trans-1,2-Dichloroethene | 0.2000 | **54** | 0.5000 | -11 | 1.0000 | -13 | 2.0000 | -12 | 5.0000 | 13 | 10.000 | -1 | 20.000 | -14 | 40.000 | -16 |
| MTBE | 0.2000 | **53** | 0.5000 | -11 | 1.0000 | -11 | 2.0000 | -13 | 5.0000 | 14 | 10.000 | -1 | 20.000 | -14 | 40.000 | -16 |
| n-Hexane | 0.2000 | **54** | 0.5000 | -10 | 1.0000 | -12 | 2.0000 | -13 | 5.0000 | 14 | 10.000 | -2 | 20.000 | -15 | 40.000 | -16 |
| 1,1-Dichloroethane | 0.2000 | **53** | 0.5000 | -11 | 1.0000 | -12 | 2.0000 | -13 | 5.0000 | 14 | 10.000 | -1 | 20.000 | -14 | 40.000 | -16 |
| Vinyl Acetate | 0.2000 | **65** | 0.5000 | -6 | 1.0000 | -11 | 2.0000 | -13 | 5.0000 | 9 | 10.000 | -6 | 20.000 | -19 | 40.000 | -20 |
| cis-1,2-Dichloroethene | 0.2000 | **54** | 0.5000 | -10 | 1.0000 | -13 | 2.0000 | -14 | 5.0000 | 14 | 10.000 | -1 | 20.000 | -15 | 40.000 | -16 |
| 2-Butanone | 0.2000 | **53** | 0.5000 | -9 | 1.0000 | -12 | 2.0000 | -13 | 5.0000 | 14 | 10.000 | -1 | 20.000 | -15 | 40.000 | -16 |
| Chloroform | 0.2000 | **51** | 0.5000 | -9 | 1.0000 | -12 | 2.0000 | -12 | 5.0000 | 15 | 10.000 | -1 | 20.000 | -15 | 40.000 | -17 |
| 1,1,1-Trichloroethane | 0.2000 | **52** | 0.5000 | -11 | 1.0000 | -12 | 2.0000 | -13 | 5.0000 | 15 | 10.000 | 0 | 20.000 | -14 | 40.000 | -16 |
| Carbon Tetrachloride | 0.2000 | **50** | 0.5000 | -11 | 1.0000 | -12 | 2.0000 | -13 | 5.0000 | 15 | 10.000 | 0 | 20.000 | -13 | 40.000 | -17 |
| Benzene | 0.2000 | **55** | 0.5000 | -9 | 1.0000 | -12 | 2.0000 | -13 | 5.0000 | 13 | 10.000 | -2 | 20.000 | -15 | 40.000 | -17 |
| 1,2-Dichloroethane | 0.2000 | **53** | 0.5000 | -10 | 1.0000 | -12 | 2.0000 | -12 | 5.0000 | 13 | 10.000 | -1 | 20.000 | -15 | 40.000 | -16 |
| Trichloroethene | 0.2000 | **53** | 0.5000 | -10 | 1.0000 | -13 | 2.0000 | -13 | 5.0000 | 14 | 10.000 | -1 | 20.000 | -14 | 40.000 | -17 |
| 1,2-Dichloropropane | 0.2000 | **49** | 0.5000 | -14 | 1.0000 | -12 | 2.0000 | -13 | 5.0000 | 15 | 10.000 | 0 | 20.000 | -12 | 40.000 | -13 |
| Bromodichloromethane | 0.2000 | **50** | 0.5000 | -12 | 1.0000 | -12 | 2.0000 | -12 | 5.0000 | 15 | 10.000 | 0 | 20.000 | -13 | 40.000 | -16 |
| cis-1,3-Dichloropropene | 0.2000 | **49** | 0.5000 | -12 | 1.0000 | -13 | 2.0000 | -13 | 5.0000 | 14 | 10.000 | 0 | 20.000 | -11 | 40.000 | -13 |
| 4-Methyl-2-Pentanone | 0.2000 | **55** | 0.5000 | -11 | 1.0000 | -13 | 2.0000 | -16 | 5.0000 | 13 | 10.000 | -1 | 20.000 | -14 | 40.000 | -14 |
| Toluene | 0.2000 | **54** | 0.5000 | -11 | 1.0000 | -11 | 2.0000 | -13 | 5.0000 | 13 | 10.000 | -1 | 20.000 | -15 | 40.000 | -17 |
| trans-1,3-Dichloropropene | 0.2000 | **49** | 0.5000 | -15 | 1.0000 | -14 | 2.0000 | -15 | 5.0000 | 16 | 10.000 | 2 | 20.000 | -11 | 40.000 | -12 |
| 1,1,2-Trichloroethane | 0.2000 | **48** | 0.5000 | -13 | 1.0000 | -13 | 2.0000 | -13 | 5.0000 | 15 | 10.000 | 1 | 20.000 | -12 | 40.000 | -14 |
| Tetrachloroethene | 0.2000 | **52** | 0.5000 | -11 | 1.0000 | -13 | 2.0000 | -13 | 5.0000 | 15 | 10.000 | 0 | 20.000 | -13 | 40.000 | -16 |
| 2-Hexanone | 0.2000 | **46** | 0.5000 | -14 | 1.0000 | -16 | 2.0000 | -15 | 5.0000 | 16 | 10.000 | 3 | 20.000 | -10 | 40.000 | -11 |
| Dibromochloromethane | 0.2000 | **47** | 0.5000 | -13 | 1.0000 | -13 | 2.0000 | -13 | 5.0000 | 16 | 10.000 | 2 | 20.000 | -12 | 40.000 | -14 |
| 1,2-Dibromoethane | 0.2000 | **49** | 0.5000 | -12 | 1.0000 | -13 | 2.0000 | -13 | 5.0000 | 15 | 10.000 | 1 | 20.000 | -13 | 40.000 | -14 |
| Chlorobenzene | 0.2000 | **59** | 0.5000 | -9 | 1.0000 | -10 | 2.0000 | -11 | 5.0000 | 16 | 10.000 | -1 | 20.000 | -18 | 40.000 | **-26** |
| Ethylbenzene | 0.2000 | **56** | 0.5000 | -9 | 1.0000 | -10 | 2.0000 | -10 | 5.0000 | 16 | 10.000 | -1 | 20.000 | -17 | 40.000 | **-26** |
| m,p-Xylenes | 0.4000 | **57** | 1.0000 | -8 | 2.0000 | -9 | 4.0000 | -10 | 10.000 | 17 | 20.000 | -1 | 40.000 | -19 | 80.000 | **-28** |
| o-Xylene | 0.2000 | **58** | 0.5000 | -8 | 1.0000 | -9 | 2.0000 | -10 | 5.0000 | 16 | 10.000 | -1 | 20.000 | -18 | 40.000 | **-27** |

| Spiked Amounts / Drifts | L1 | %D | L2 | %D | L3 | %D | L4 | %D | L5 | %D | L6 | %D | L7 | %D | L8 | %D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Styrene | 0.2000 | **57** | 0.5000 | -10 | 1.0000 | -10 | 2.0000 | -11 | 5.0000 | 16 | 10.000 | -1 | 20.000 | -17 | 40.000 | **-24** |
| Bromoform | 0.2000 | **51** | 0.5000 | -12 | 1.0000 | -11 | 2.0000 | -11 | 5.0000 | 19 | 10.000 | 2 | 20.000 | -15 | 40.000 | **-23** |
| 1,1,2,2-Tetrachloroethane | 0.2000 | **57** | 0.5000 | -10 | 1.0000 | -11 | 2.0000 | -10 | 5.0000 | 17 | 10.000 | 0 | 20.000 | -17 | 40.000 | **-25** |
| 4-Ethyltoluene | 0.2000 | **54** | 0.5000 | -11 | 1.0000 | -10 | 2.0000 | -10 | 5.0000 | 18 | 10.000 | 1 | 20.000 | -17 | 40.000 | **-26** |
| 1,3,5-Trimethylbenzene | 0.2000 | **54** | 0.5000 | -7 | 1.0000 | -11 | 2.0000 | -10 | 5.0000 | 18 | 10.000 | 0 | 20.000 | -17 | 40.000 | **-26** |
| 1,2,4-Trimethylbenzene | 0.2000 | **52** | 0.5000 | -10 | 1.0000 | -10 | 2.0000 | -10 | 5.0000 | 18 | 10.000 | 1 | 20.000 | -16 | 40.000 | **-25** |
| 1,3-Dichlorobenzene | 0.2000 | **55** | 0.5000 | -10 | 1.0000 | -11 | 2.0000 | -10 | 5.0000 | 18 | 10.000 | 1 | 20.000 | -17 | 40.000 | **-26** |
| 1,4-Dichlorobenzene | 0.2000 | **54** | 0.5000 | -11 | 1.0000 | -11 | 2.0000 | -10 | 5.0000 | 18 | 10.000 | 0 | 20.000 | -16 | 40.000 | **-25** |
| Benzyl chloride | 0.2000 | **40** | 0.5000 | -19 | 1.0000 | -16 | 2.0000 | -11 | 5.0000 | **23** | 10.000 | 8 | 20.000 | -8 | 40.000 | -17 |
| 1,2-Dichlorobenzene | 0.2000 | **54** | 0.5000 | -12 | 1.0000 | -11 | 2.0000 | -10 | 5.0000 | 17 | 10.000 | 1 | 20.000 | -16 | 40.000 | **-24** |
| 1,2,4-Trichlorobenzene | 0.2000 | **36** | 0.5000 | **-21** | 1.0000 | -18 | 2.0000 | -14 | 5.0000 | **22** | 10.000 | 10 | 20.000 | -4 | 40.000 | -10 |
| Hexachlorobutadiene | 0.2000 | **54** | 0.5000 | -11 | 1.0000 | -12 | 2.0000 | -11 | 5.0000 | 17 | 10.000 | 1 | 20.000 | -15 | 40.000 | **-23** |
| Bromofluorobenzene | 10.000 | 2 | 10.000 | 2 | 10.000 | 3 | 10.000 | 3 | 10.000 | 2 | 10.000 | 0 | 10.000 | -3 | 10.000 | -8 |

DJL 01/06/22 [Vinyl Acetate]: Separated from coeluting peak in multiple levels.

Analyst: DJL Date: 01/06/22 Reviewer: SLL Date: 01/07/22

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



372007975001

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-06 Name : TO15_220105
Calnum : 372007975001 Cal Date : 05-JAN-2022

ICV 372007975013 (air06_010522013 05-JAN-2022) stds: S16294 (4X), S16298 (5X)

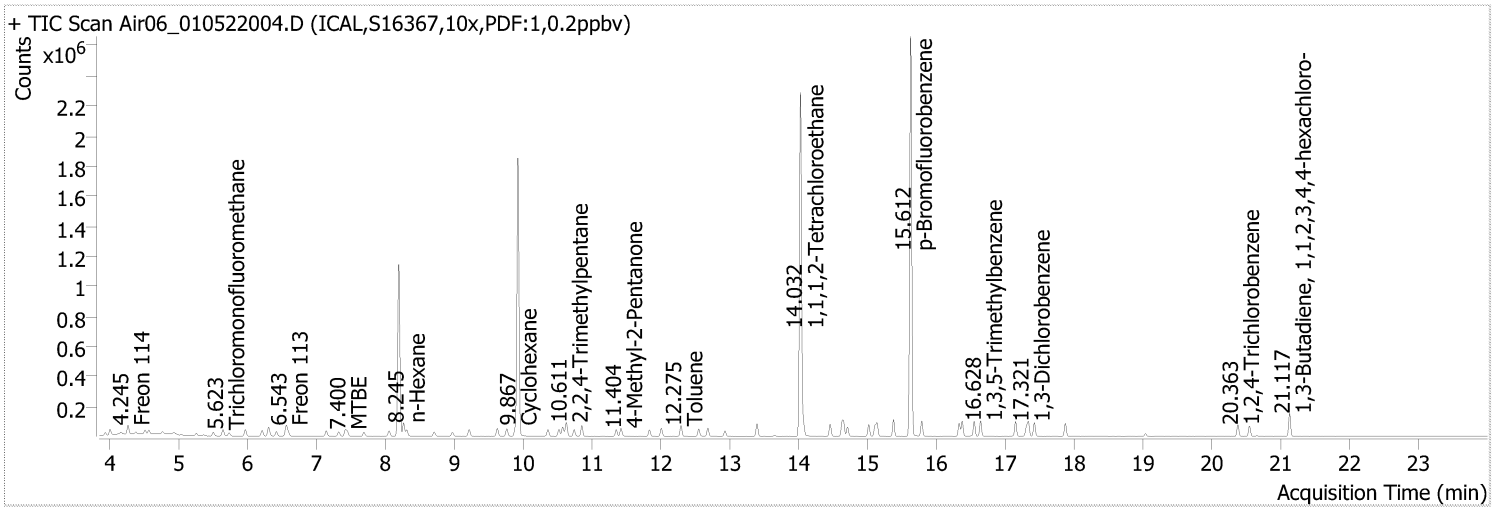
| Analyte | Spiked | Quant | Units | %D | Max | Flags |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.00 | 8.925 | nL/L | -11 | 30 | |
| Freon 12 | 10.00 | 8.975 | nL/L | -10 | 30 | |
| Freon 114 | 10.00 | 8.950 | nL/L | -11 | 30 | |
| Chloromethane | 10.00 | 8.813 | nL/L | -12 | 30 | |
| Vinyl Chloride | 10.00 | 8.761 | nL/L | -12 | 30 | |
| Bromomethane | 10.00 | 8.854 | nL/L | -11 | 30 | |
| Chloroethane | 10.00 | 8.783 | nL/L | -12 | 30 | |
| Trichlorofluoromethane | 10.00 | 8.858 | nL/L | -11 | 30 | |
| 1,1-Dichloroethene | 10.00 | 8.860 | nL/L | -11 | 30 | |
| Freon 113 | 10.00 | 8.792 | nL/L | -12 | 30 | |
| Acetone | 10.00 | 9.056 | nL/L | -9 | 30 | |
| Carbon Disulfide | 10.00 | 8.778 | nL/L | -12 | 30 | |
| Isopropanol (IPA) | 10.00 | 9.693 | nL/L | -3 | 30 | |
| Methylene Chloride | 10.00 | 8.406 | nL/L | -16 | 30 | |
| trans-1,2-Dichloroethene | 10.00 | 8.747 | nL/L | -13 | 30 | |
| MTBE | 10.00 | 8.774 | nL/L | -12 | 30 | |
| n-Hexane | 10.00 | 8.699 | nL/L | -13 | 30 | |
| 1,1-Dichloroethane | 10.00 | 8.791 | nL/L | -12 | 30 | |
| Vinyl Acetate | 10.00 | 8.248 | nL/L | -18 | 30 | |
| cis-1,2-Dichloroethene | 10.00 | 8.771 | nL/L | -12 | 30 | |
| 2-Butanone | 10.00 | 8.769 | nL/L | -12 | 30 | |
| Chloroform | 10.00 | 8.778 | nL/L | -12 | 30 | |
| 1,1,1-Trichloroethane | 10.00 | 8.872 | nL/L | -11 | 30 | |
| Carbon Tetrachloride | 10.00 | 8.841 | nL/L | -12 | 30 | |
| Benzene | 10.00 | 8.684 | nL/L | -13 | 30 | |
| 1,2-Dichloroethane | 10.00 | 8.711 | nL/L | -13 | 30 | |
| Trichloroethene | 10.00 | 8.817 | nL/L | -12 | 30 | |
| 1,2-Dichloropropane | 10.00 | 8.838 | nL/L | -12 | 30 | |
| Bromodichloromethane | 10.00 | 8.909 | nL/L | -11 | 30 | |
| cis-1,3-Dichloropropene | 10.00 | 8.867 | nL/L | -11 | 30 | |
| 4-Methyl-2-Pentanone | 10.00 | 8.709 | nL/L | -13 | 30 | |
| Toluene | 10.00 | 8.700 | nL/L | -13 | 30 | |
| trans-1,3-Dichloropropene | 10.00 | 8.925 | nL/L | -11 | 30 | |
| 1,1,2-Trichloroethane | 10.00 | 8.907 | nL/L | -11 | 30 | |
| Tetrachloroethene | 10.00 | 8.809 | nL/L | -12 | 30 | |
| 2-Hexanone | 10.00 | 8.975 | nL/L | -10 | 30 | |
| Dibromochloromethane | 10.00 | 8.992 | nL/L | -10 | 30 | |
| 1,2-Dibromoethane | 10.00 | 8.862 | nL/L | -11 | 30 | |
| Chlorobenzene | 10.00 | 8.723 | nL/L | -13 | 30 | |
| Ethylbenzene | 10.00 | 8.755 | nL/L | -12 | 30 | |
| m,p-Xylenes | 20.00 | 17.43 | nL/L | -13 | 30 | |
| o-Xylene | 10.00 | 8.726 | nL/L | -13 | 30 | |
| Styrene | 10.00 | 8.715 | nL/L | -13 | 30 | |
| Bromoform | 10.00 | 9.054 | nL/L | -9 | 30 | |
| 1,1,2,2-Tetrachloroethane | 10.00 | 8.803 | nL/L | -12 | 30 | |
| 4-Ethyltoluene | 10.00 | 8.773 | nL/L | -12 | 30 | |
| 1,3,5-Trimethylbenzene | 10.00 | 8.501 | nL/L | -15 | 30 | |
| 1,2,4-Trimethylbenzene | 10.00 | 8.864 | nL/L | -11 | 30 | |
| 1,3-Dichlorobenzene | 10.00 | 8.823 | nL/L | -12 | 30 | |

| Analyte | Spiked | Quant | Units | %D | Max | Flags |
|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 10.00 | 8.756 | nL/L | -12 | 30 | |
| Benzyl chloride | 10.00 | 9.377 | nL/L | -6 | 30 | |
| 1,2-Dichlorobenzene | 10.00 | 8.881 | nL/L | -11 | 30 | |
| 1,2,4-Trichlorobenzene | 10.00 | 9.331 | nL/L | -7 | 30 | |
| Hexachlorobutadiene | 10.00 | 9.149 | nL/L | -9 | 30 | |

Analyst: DJL Date: 01/06/22 Reviewer: SLL Date: 01/07/22

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522004.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 3:07:36 PM |
| Sample Name | ICAL,S16367,10x,PDF:1,0.2ppbv | Instrument | Air-MS-06 |
| Vial | 6 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x40mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 220105_ICAL.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



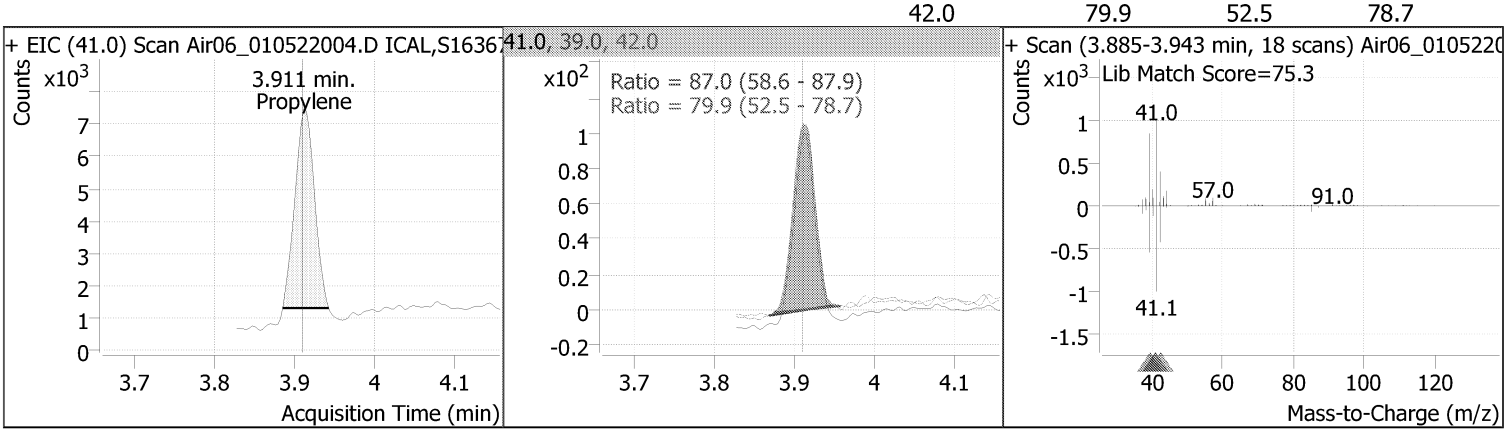

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 411562 | 10.0000 | nL/L | | 0.000 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1565160 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 814258 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1094422 | 10.2210 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 102.21% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.911 | 41.0 | 10415 | 0.2569 | nL/L | # | 83 |
| T Freon 12 | 3.982 | 85.0 | 32355 | 0.3017 | nL/L | | 98 |
| T Chloromethane | 4.138 | 50.0 | 15801 | 0.3135 | nL/L | | 99 |
| T Freon 114 | 4.245 | 135.0 | 22527 | 0.2977 | nL/L | | 97 |
| T Vinyl Chloride | 4.358 | 62.0 | 15503 | 0.3075 | nL/L | | 98 |
| T 1,3-Butadiene | 4.491 | 54.0 | 12748 | 0.2953 | nL/L | | 99 |
| T Butane | 4.546 | 43.0 | 26072 | 0.3111 | nL/L | | 98 |
| T Bromomethane | 4.746 | 96.0 | 11075 | 0.2984 | nL/L | | 97 |
| T Chloroethane | 4.908 | 64.0 | 7615 | 0.3064 | nL/L | | 98 |
| T Ethanol | 5.021 | 45.0 | 9247 | 0.3726 | nL/L | | 93 |
| T Vinyl bromide | 5.235 | 108.0 | 13081 | 0.3003 | nL/L | | 98 |
| T Acrolein | 5.342 | 56.0 | 6638 | 0.3032 | nL/L | | 99 |
| T Acetone | 5.481 | 58.0 | 9946 | 0.3845 | nL/L | | 92 |
| T Trichloromonofluoromethane | 5.623 | 101.0 | 38269 | 0.3027 | nL/L | | 98 |
| T Isopropanol (IPA) | 5.711 | 45.0 | 31092 | 0.3357 | nL/L | | 99 |
| T n-Pentane | 5.947 | 43.0 | 32202 | 0.3110 | nL/L | | 98 |
| T 1,1-Dichloroethene | 6.193 | 61.0 | 28373 | 0.3015 | nL/L | | 96 |
| T Tert-butyl alcohol (TBA) | 6.290 | 59.0 | 32360 | 0.3019 | nL/L | # | 95 |
| T Methylene Chloride | 6.284 | 84.0 | 15038 | 0.3302 | nL/L | | 99 |
| T 3-Chloropropene | 6.397 | 76.0 | 6578 | 0.3133 | nL/L | | 95 |
| T Freon 113 | 6.543 | 101.0 | 31243 | 0.3075 | nL/L | | 98 |
| T Carbon Disulfide | 6.572 | 76.0 | 40251 | 0.3058 | nL/L | | 97 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 24278 | 0.3080 | nL/L | | 98 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 29566 | 0.3055 | nL/L | | 98 |
| T MTBE | 7.400 | 73.0 | 39177 | 0.3055 | nL/L | | 96 |
| T Vinyl Acetate | 7.426 | 43.0 | 53500 | 0.3294 | nL/L | m | 98 |
| T 2-Butanone | 7.669 | 43.0 | 38285 | 0.3060 | nL/L | | 98 |
| T cis-1,2-Dichloroethene | 8.035 | 61.0 | 24591 | 0.3085 | nL/L | | 98 |
| T Ethyl Acetate | 8.245 | 61.0 | 5867 | 0.2987 | nL/L | | 99 |
| T n-Hexane | 8.245 | 57.0 | 27769 | 0.3078 | nL/L | | 97 |
| T Chloroform | 8.294 | 83.0 | 30687 | 0.3017 | nL/L | | 98 |
| T Tetrahydrofuran | 8.689 | 72.0 | 6761 | 0.3013 | nL/L | | 98 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 22796 | 0.3060 | nL/L | | 98 |
| T 1,1,1-Trichloroethane | 9.197 | 97.0 | 29903 | 0.3039 | nL/L | | 98 |
| T Benzene | 9.608 | 78.0 | 45342 | 0.3092 | nL/L | | 98 |
| T Carbon Tetrachloride | 9.744 | 117.0 | 31529 | 0.3004 | nL/L | | 98 |
| T Cyclohexane | 9.867 | 84.0 | 19485 | 0.3180 | nL/L | # | 72 |
| T 1,2-Dichloropropane | 10.343 | 63.0 | 19056 | 0.2972 | nL/L | | 99 |
| T Methane, bromodichloro- | 10.501 | 83.0 | 31397 | 0.3001 | nL/L | | 98 |
| T 1,4-Dioxane | 10.579 | 88.0 | 10464 | 0.3128 | nL/L | # | 1 |
| T Trichloroethene | 10.556 | 132.0 | 19915 | 0.3054 | nL/L | | 96 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 91169 | 0.3125 | nL/L | | 98 |
| T Methyl methacrylate | 10.724 | 69.0 | 16073 | 0.2953 | nL/L | | 96 |
| T n-Heptane | 10.835 | 71.0 | 15231 | 0.3022 | nL/L | | 97 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 6047 | 0.2971 | nL/L | # | 77 |
| T 4-Methyl-2-Pentanone | 11.404 | 58.0 | 17469 | 0.3107 | nL/L | | 95 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 6206 | 0.2974 | nL/L | | 91 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 18103 | 0.2965 | nL/L | | 98 |
| T Toluene | 12.275 | 91.0 | 57146 | 0.3080 | nL/L | | 98 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 9480031 | 0.7228 | nL/L | | 100 |
| T 2-Hexanone | 12.534 | 58.0 | 21028 | 0.2912 | nL/L | | 98 |
| T Dibromochloromethane | 12.666 | 129.0 | 32667 | 0.2947 | nL/L | | 99 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 27924 | 0.2973 | nL/L | | 100 |
| T Tetrachloroethene | 13.379 | 166.0 | 29093 | 0.3033 | nL/L | | 98 |
| T 1,1,1,2-Tetrachloroethane | 14.032 | 131.0 | 21351 | 0.3039 | nL/L | # | 76 |
| T Benzene, chloro- | 14.055 | 112.0 | 44368 | 0.3182 | nL/L | | 96 |
| T Ethylbenzene | 14.443 | 91.0 | 69208 | 0.3124 | nL/L | | 98 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 6388797 | 0.6669 | nL/L | | 100 |
| T m,p-Xylenes | 14.625 | 91.0 | 112036 | 0.6288 | nL/L | | 97 |
| T Bromoform | 14.693 | 173.0 | 36854 | 0.3020 | nL/L | | 98 |
| T Styrene | 15.003 | 104.0 | 44408 | 0.3145 | nL/L | | 96 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 42234 | 0.3137 | nL/L | | 98 |
| T o-Xylene | 15.123 | 91.0 | 58035 | 0.3168 | nL/L | | 98 |
| T n-Nonane | 15.363 | 85.0 | 13151 | 0.3108 | nL/L | | 97 |
| T Isopropylbenzene | 15.770 | 105.0 | 78387 | 0.3122 | nL/L | | 98 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 20043 | 0.3134 | nL/L | | 99 |
| T n-Propylbenzene | 16.360 | 120.0 | 22062 | 0.3145 | nL/L | | 78 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 76731 | 0.3088 | nL/L | | 97 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 66298 | 0.3082 | nL/L | | 97 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 65133 | 0.3049 | nL/L | | 96 |
| T Benzyl chloride | 17.295 | 91.0 | 52765 | 0.2809 | nL/L | | 99 |
| T 1,3-Dichlorobenzene | 17.321 | 146.0 | 45432 | 0.3100 | nL/L | | 98 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 45758 | 0.3088 | nL/L | | 98 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 43996 | 0.3078 | nL/L | | 98 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 31967 | 0.2714 | nL/L | | 98 |
| T Naphthalene | 20.532 | 128.0 | 66554 | 0.2730 | nL/L | | 99 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.117 | 225.0 | 38881 | 0.3072 | nL/L | | 98 |

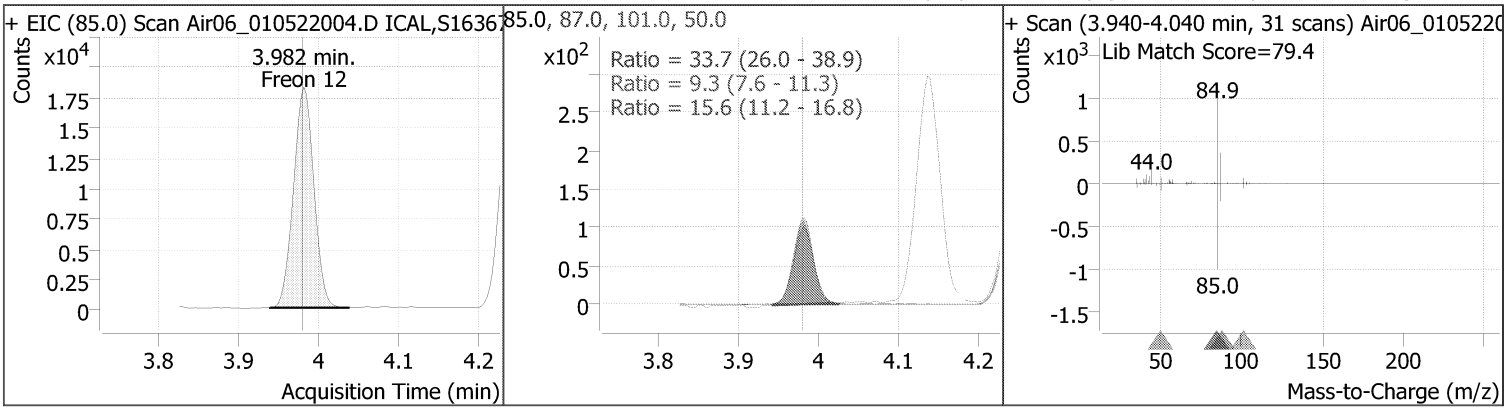
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

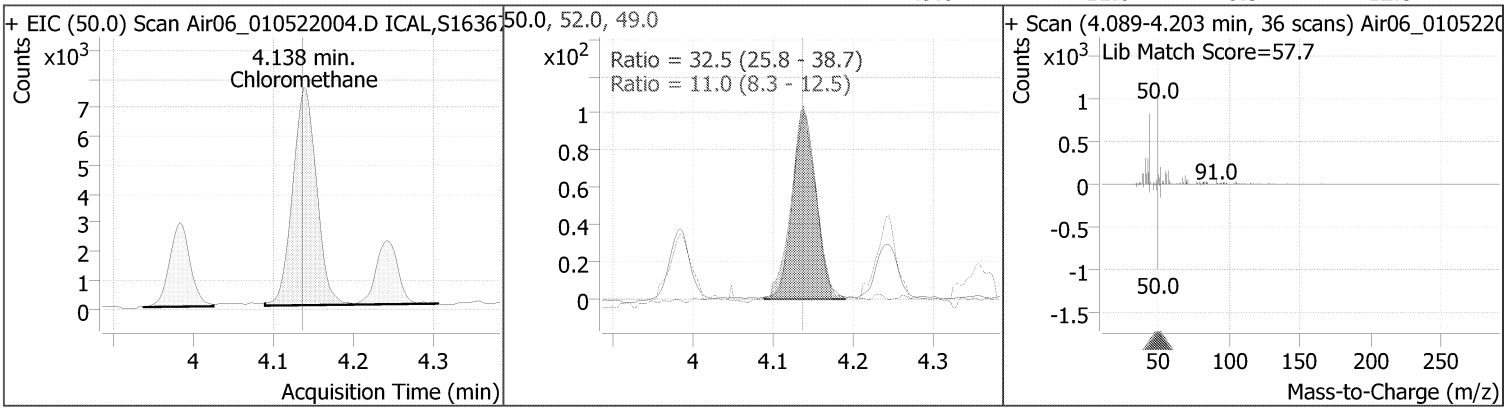
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.2569 | 3.91 | 0.00 | 10415 | 39.0 | 87.0 | 58.6 | 87.9 |
| | | | | | 42.0 | 79.9 | 52.5 | 78.7 |



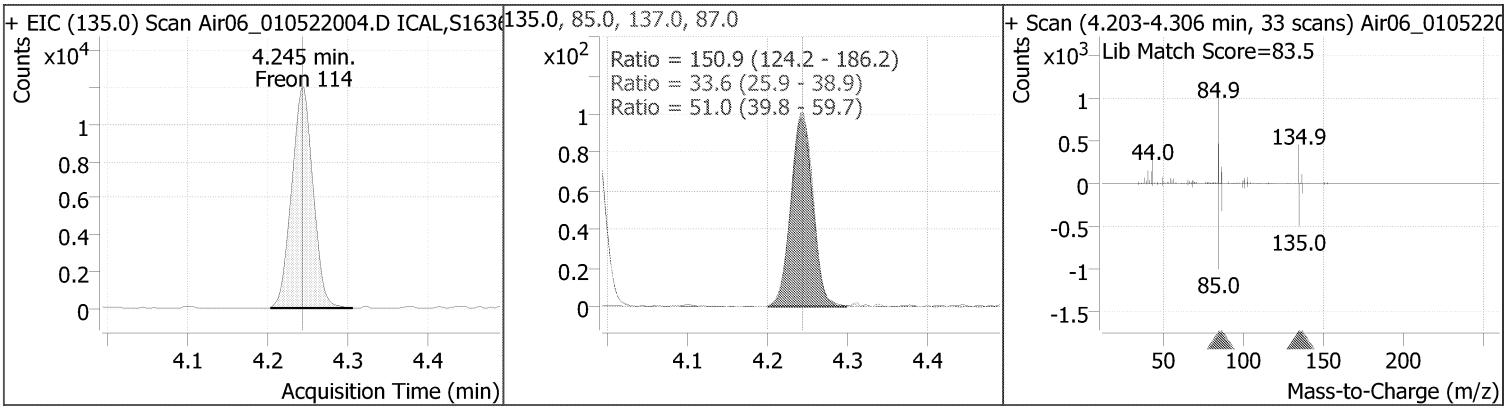

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.3017 | 3.98 | 0.00 | 32355 | 87.0 | 33.7 | 26.0 | 38.9 |
| | | | | | 50.0 | 15.6 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.3 | 7.6 | 11.3 |



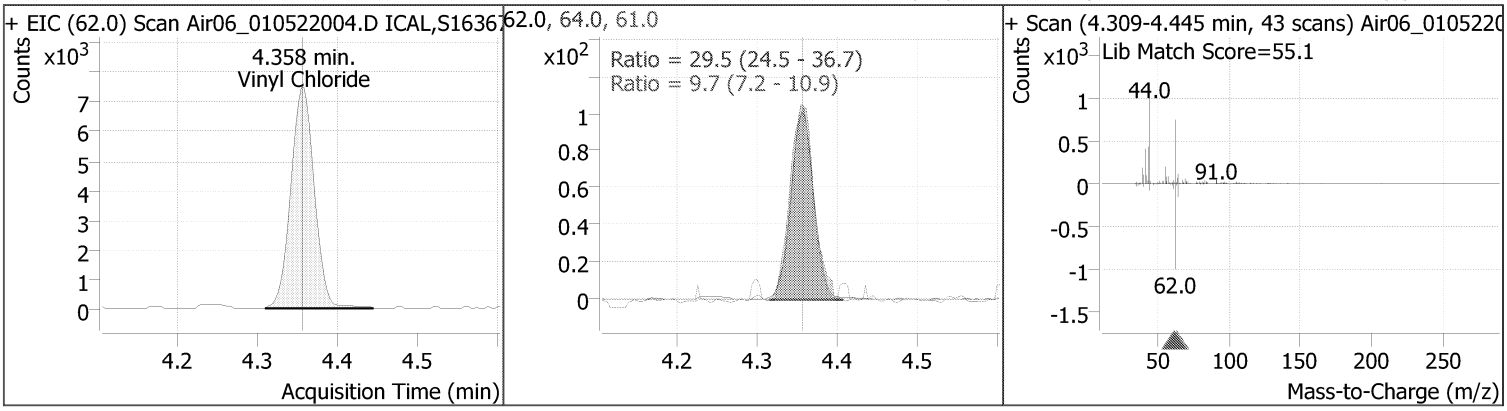

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.3135 | 4.14 | 0.00 | 15801 | 52.0 | 32.5 | 25.8 | 38.7 |
| | | | | | 49.0 | 11.0 | 8.3 | 12.5 |



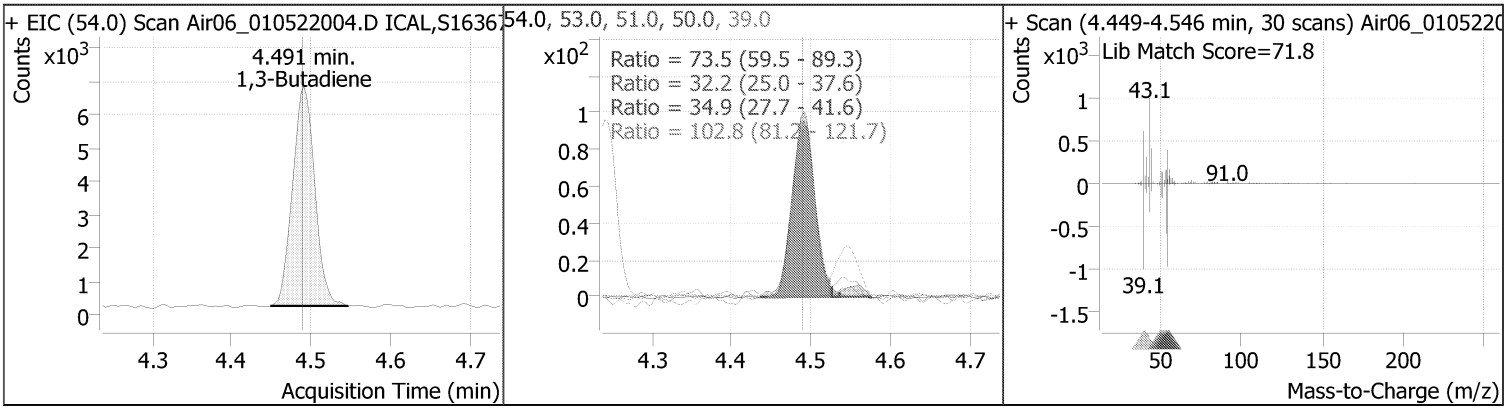
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.2977 | 4.24 | 0.00 | 22527 | 85.0 | 150.9 | 124.2 | 186.2 |
| | | | | | 87.0 | 51.0 | 39.8 | 59.7 |
| | | | | | 137.0 | 33.6 | 25.9 | 38.9 |



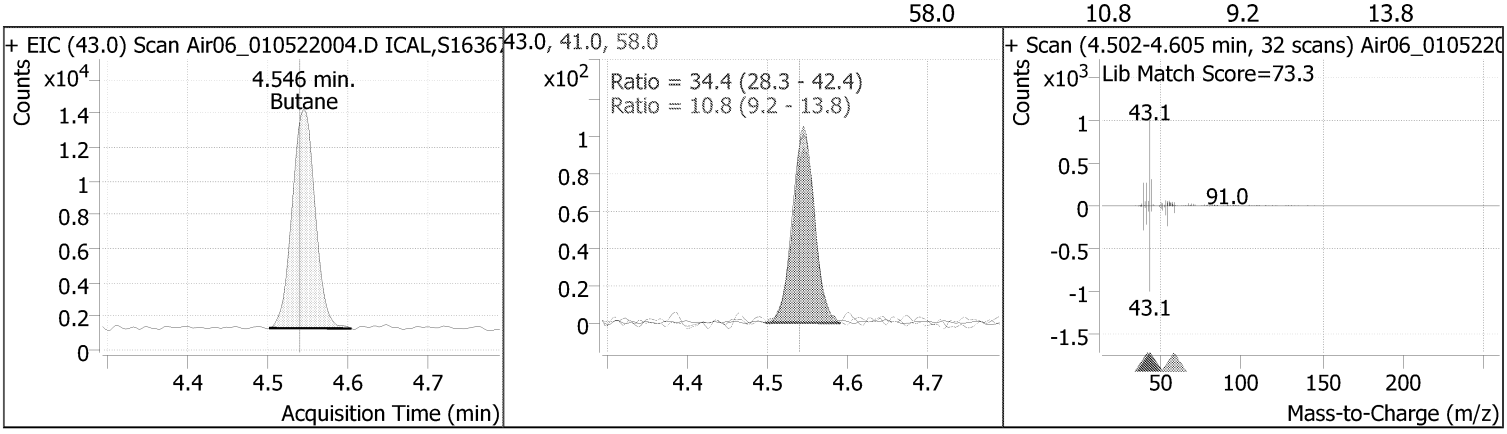

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.3075 | 4.36 | 0.00 | 15503 | 64.0 | 29.5 | 24.5 | 36.7 |
| | | | | | 61.0 | 9.7 | 7.2 | 10.9 |



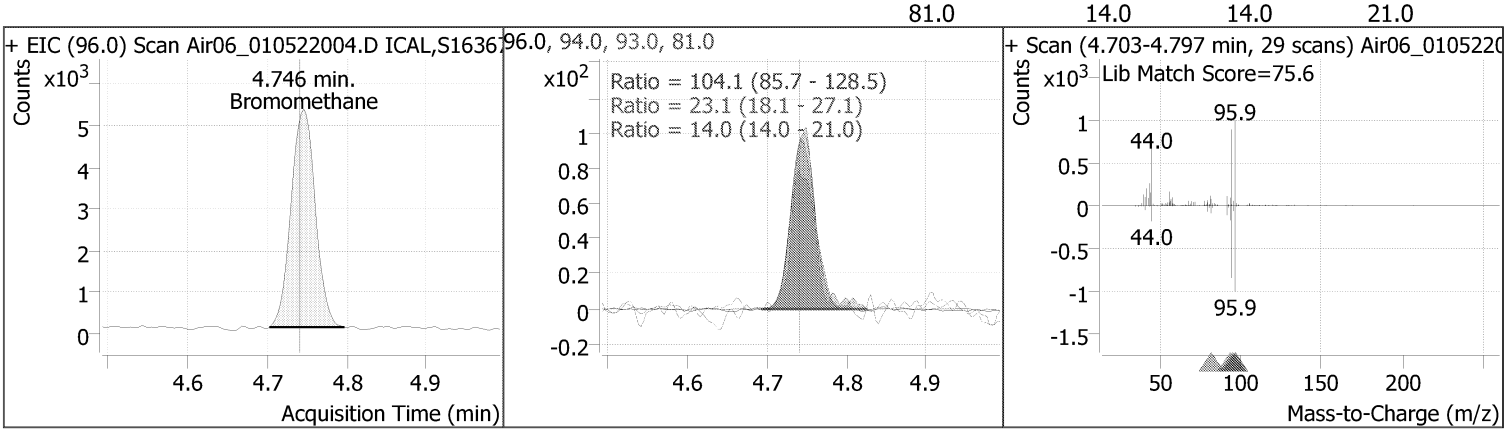

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.2953 | 4.49 | 0.00 | 12748 | 39.0 | 102.8 | 81.2 | 121.7 |
| | | | | | 53.0 | 73.5 | 59.5 | 89.3 |
| | | | | | 50.0 | 34.9 | 27.7 | 41.6 |
| | | | | | 51.0 | 32.2 | 25.0 | 37.6 |



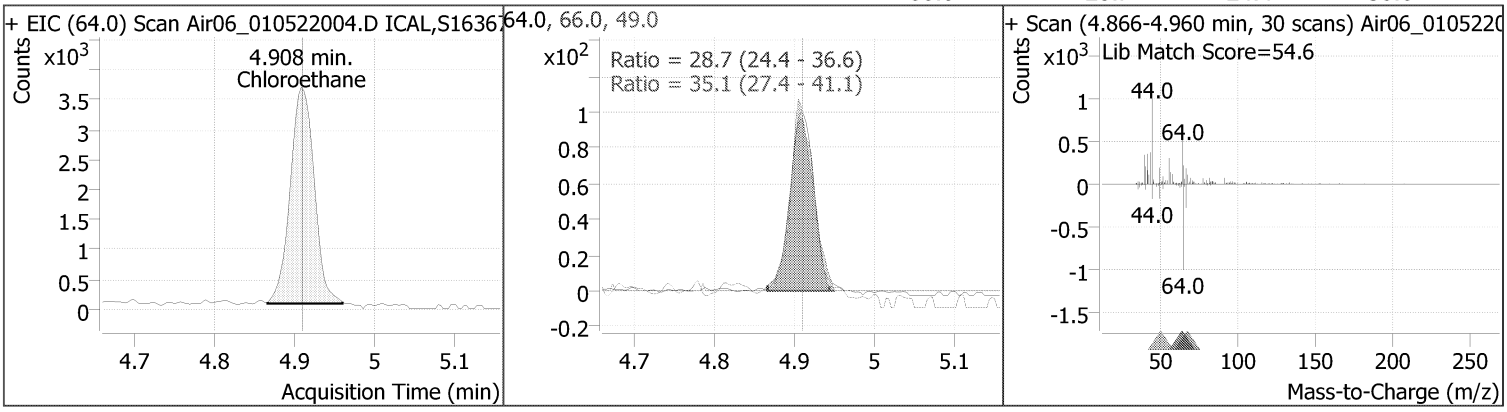
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.3111 | 4.55 | 0.00 | 26072 | 41.0 | 34.4 | 28.3 | 42.4 |
| | | | | | 58.0 | 10.8 | 9.2 | 13.8 |



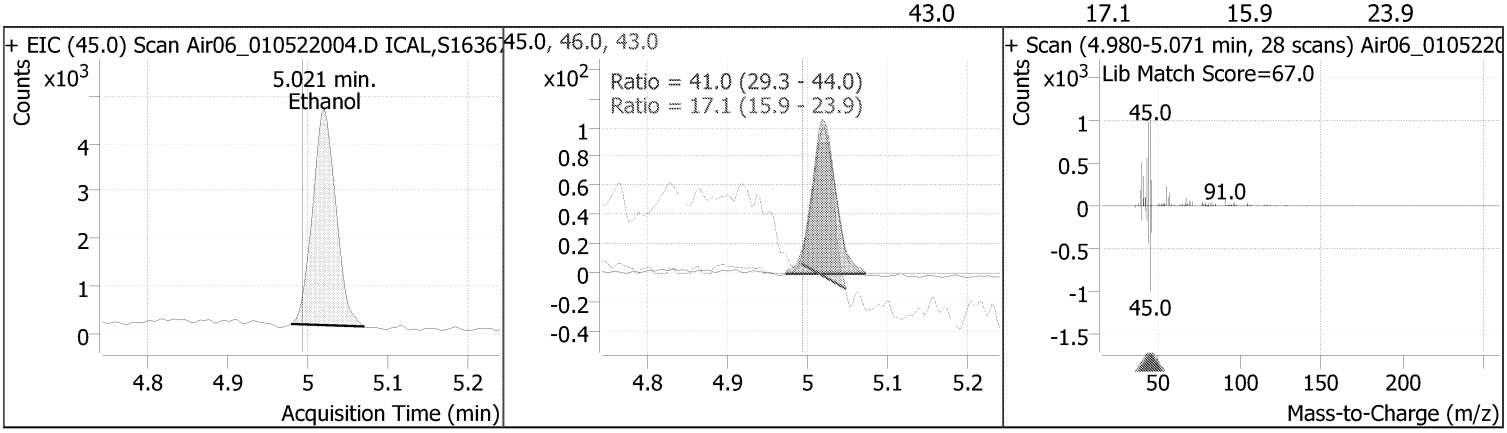

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 0.2984 | 4.75 | 0.00 | 11075 | 94.0 | 104.1 | 85.7 | 128.5 |
| | | | | | 93.0 | 23.1 | 18.1 | 27.1 |
| | | | | | 81.0 | 14.0 | 14.0 | 21.0 |



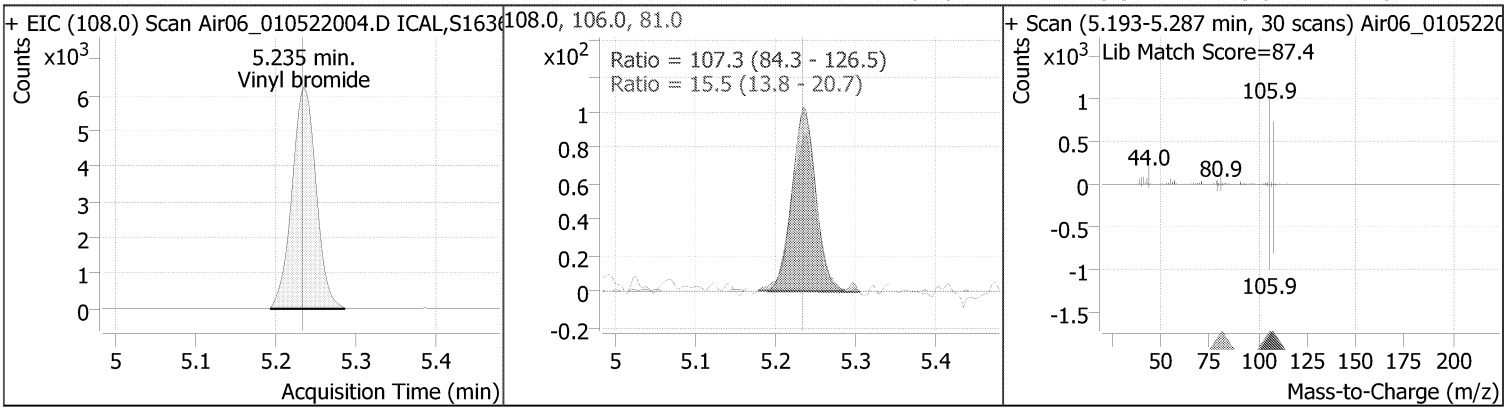

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.3064 | 4.91 | 0.00 | 7615 | 49.0 | 35.1 | 27.4 | 41.1 |
| | | | | | 66.0 | 28.7 | 24.4 | 36.6 |



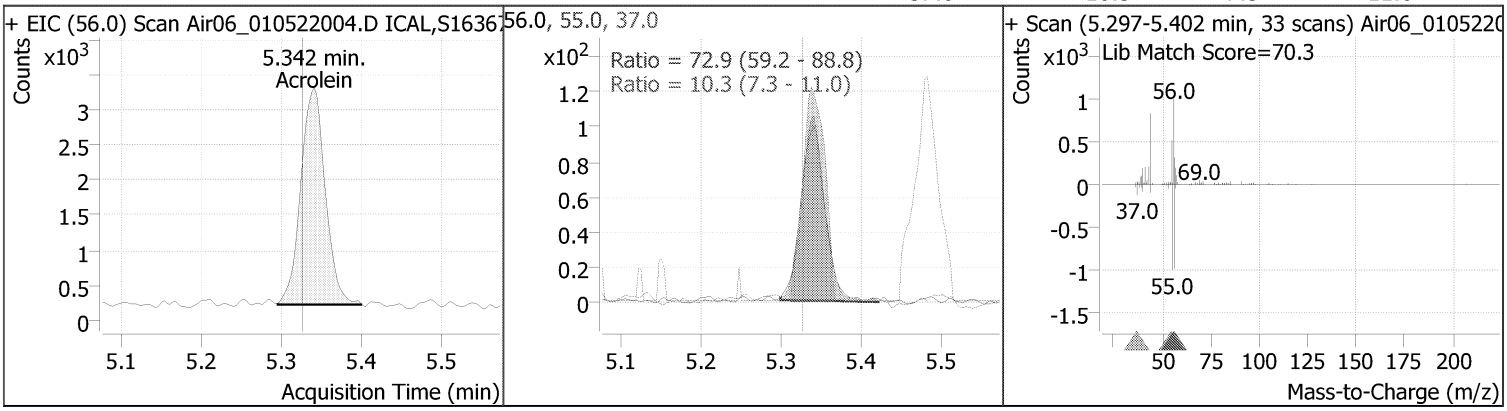
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.3726 | 5.02 | 0.03 | 9247 | 46.0 | 41.0 | 29.3 | 44.0 |
| | | | | | 43.0 | 17.1 | 15.9 | 23.9 |



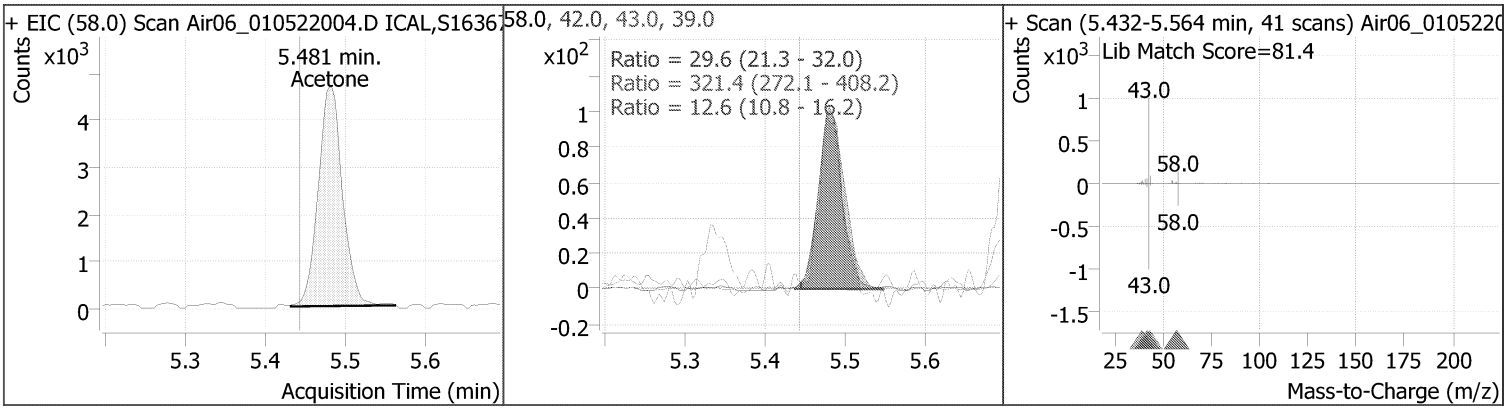

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 0.3003 | 5.24 | 0.00 | 13081 | 106.0 | 107.3 | 84.3 | 126.5 |
| | | | | | 81.0 | 15.5 | 13.8 | 20.7 |



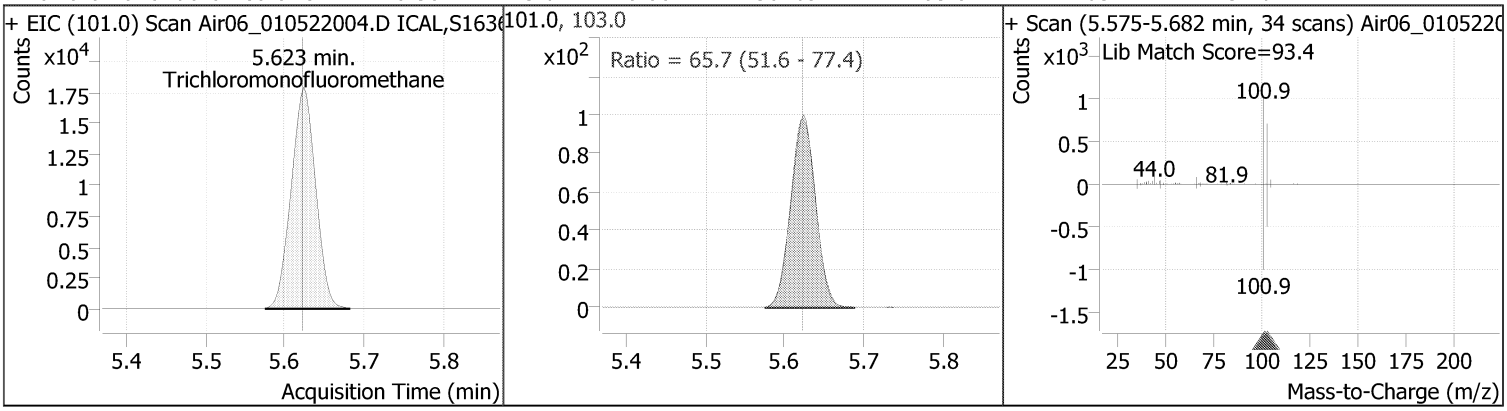

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.3032 | 5.34 | 0.02 | 6638 | 55.0 | 72.9 | 59.2 | 88.8 |
| | | | | | 37.0 | 10.3 | 7.3 | 11.0 |



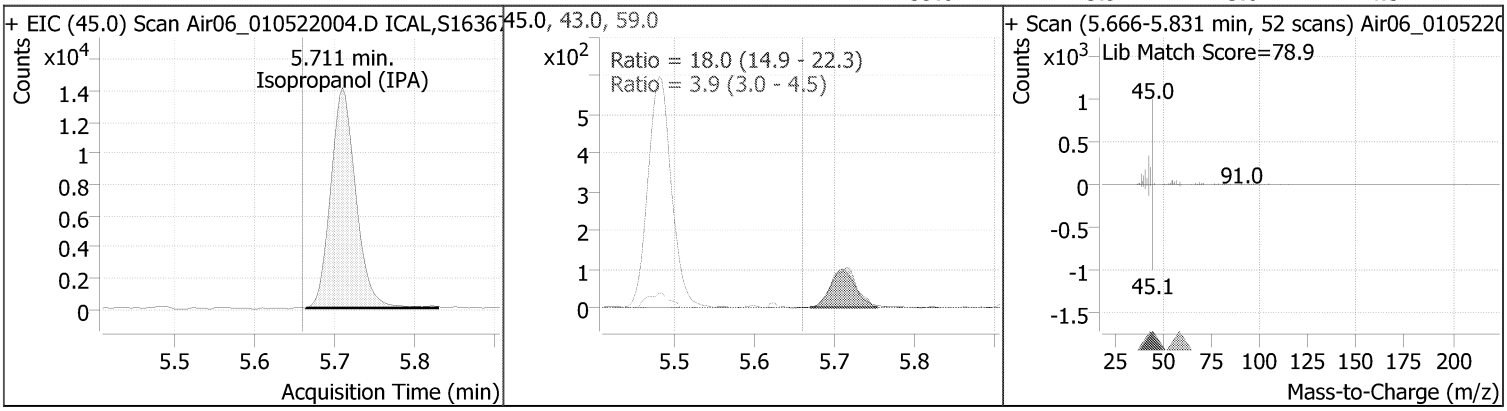
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.3845 | 5.48 | 0.04 | 9946 | 43.0 | 321.4 | 272.1 | 408.2 |
| | | | | | 42.0 | 29.6 | 21.3 | 32.0 |
| | | | | | 39.0 | 12.6 | 10.8 | 16.2 |



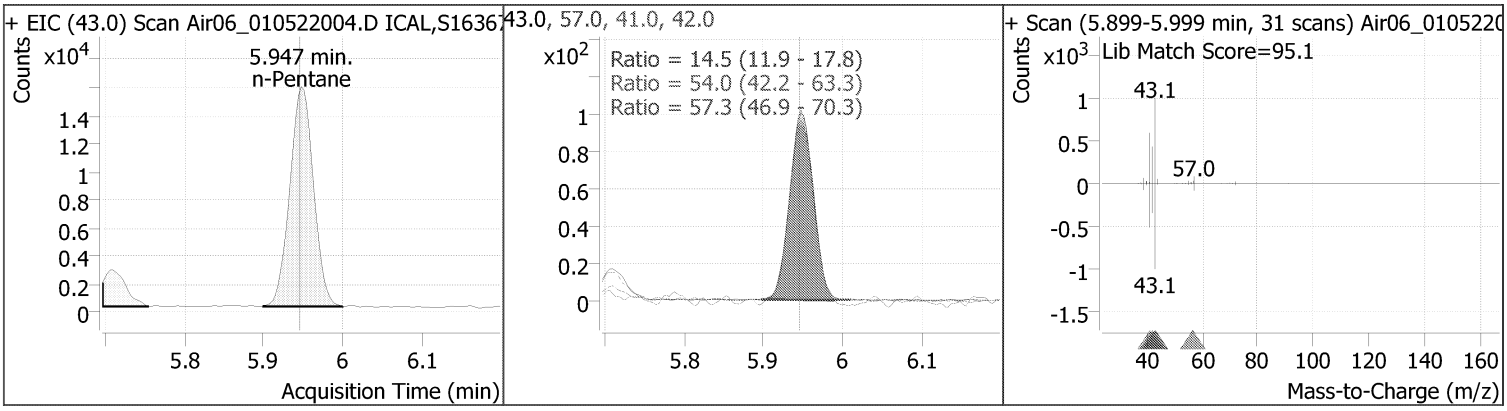

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 0.3027 | 5.62 | 0.00 | 38269 | 103.0 | 65.7 | 51.6 | 77.4 |



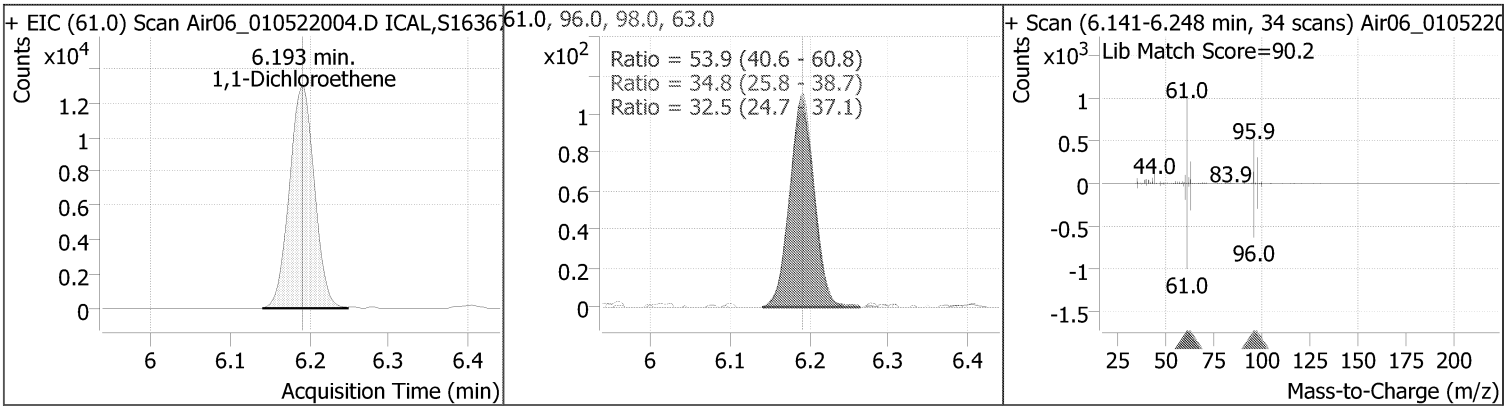

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.3357 | 5.71 | 0.05 | 31092 | 43.0 | 18.0 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.9 | 3.0 | 4.5 |



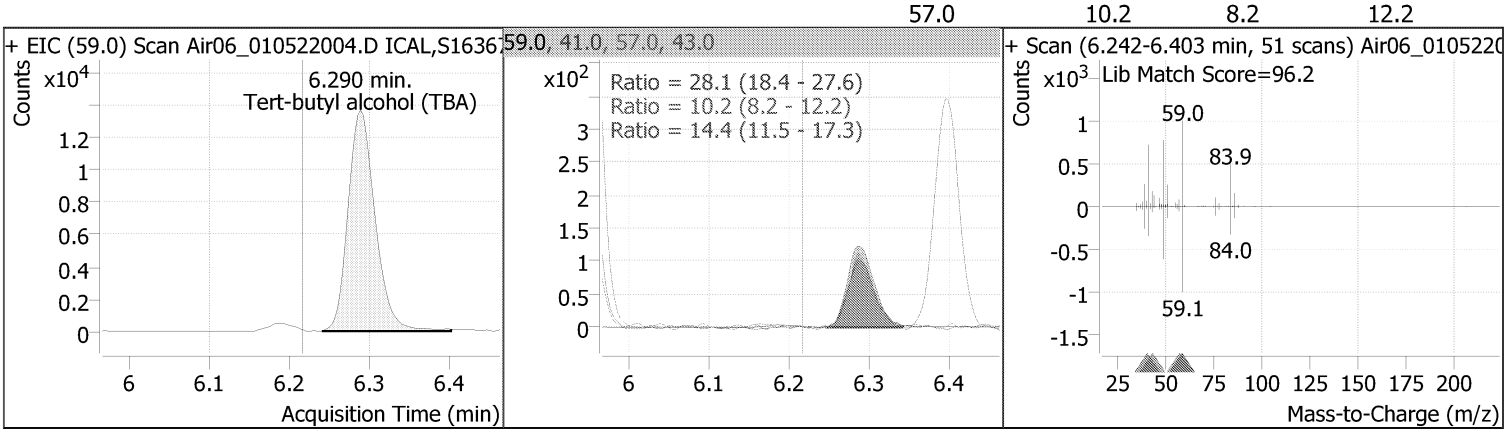
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.3110 | 5.95 | 0.00 | 32202 | 42.0 | 57.3 | 46.9 | 70.3 |
| | | | | | 41.0 | 54.0 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.5 | 11.9 | 17.8 |



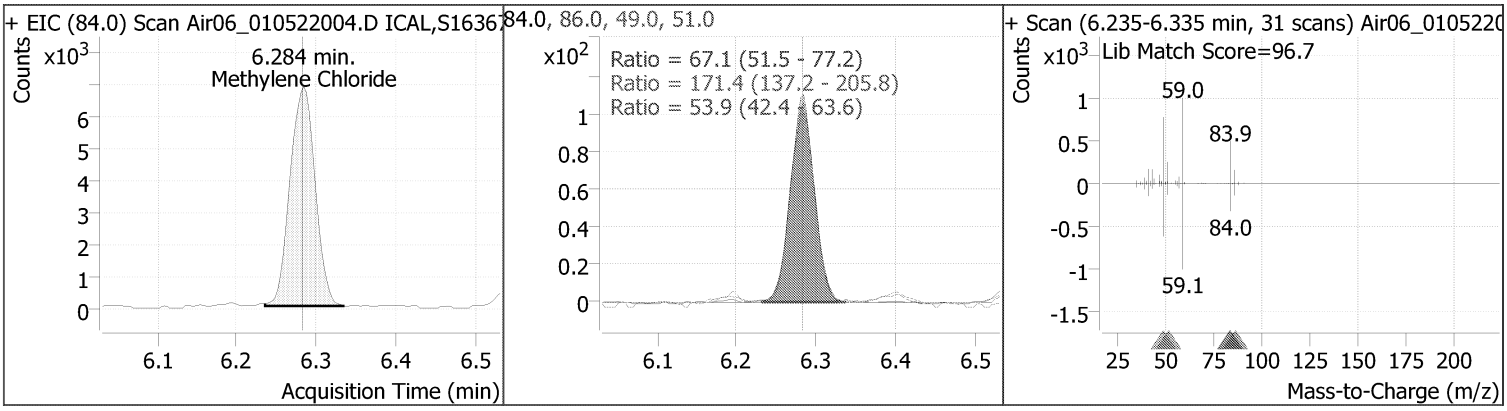

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.3015 | 6.19 | 0.00 | 28373 | 96.0 | 53.9 | 40.6 | 60.8 |
| | | | | | 98.0 | 34.8 | 25.8 | 38.7 |
| | | | | | 63.0 | 32.5 | 24.7 | 37.1 |



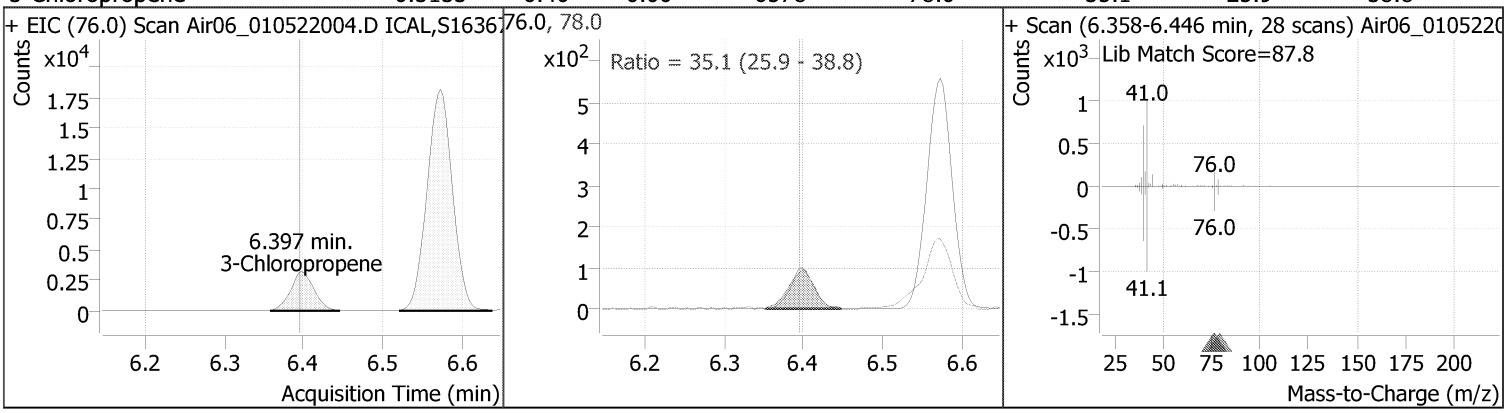

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.3019 | 6.29 | 0.07 | 32360 | 41.0 | 28.1 | 18.4 | 27.6 |
| | | | | | 43.0 | 14.4 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.2 | 8.2 | 12.2 |



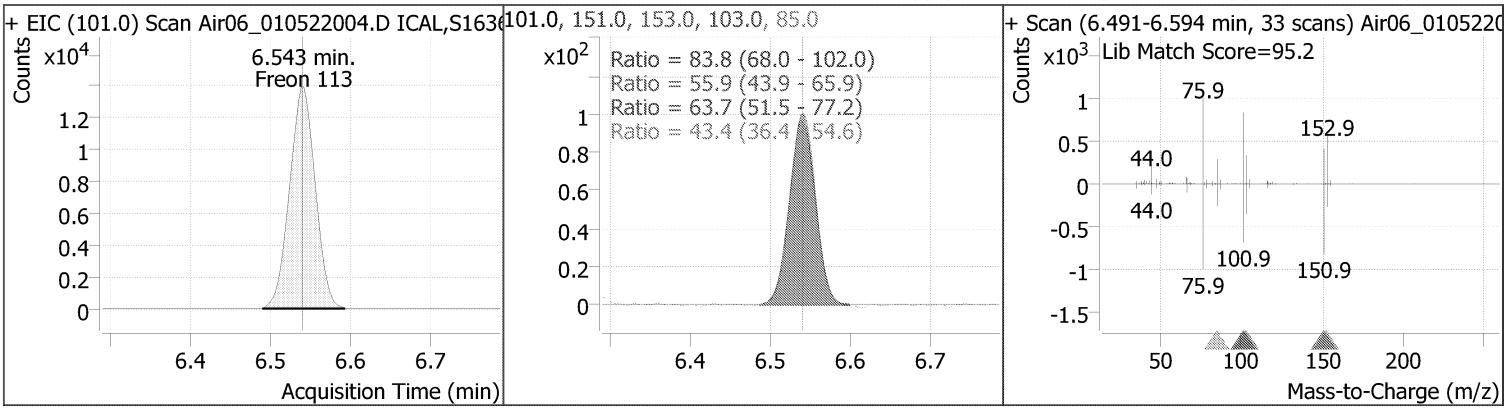
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.3302 | 6.28 | 0.00 | 15038 | 49.0 | 171.4 | 137.2 | 205.8 |
| | | | | | 86.0 | 67.1 | 51.5 | 77.2 |
| | | | | | 51.0 | 53.9 | 42.4 | 63.6 |



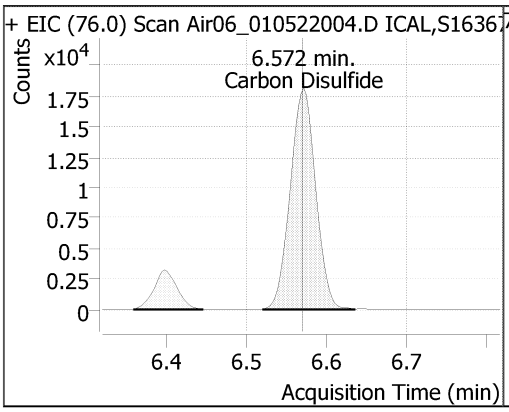

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 0.3133 | 6.40 | 0.00 | 6578 | 78.0 | 35.1 | 25.9 | 38.8 |

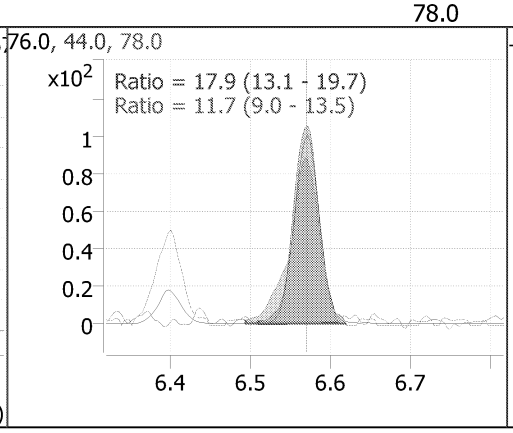


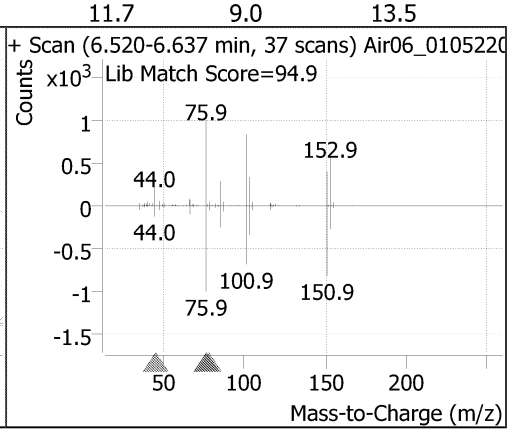

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.3075 | 6.54 | 0.00 | 31243 | 151.0 | 83.8 | 68.0 | 102.0 |
| | | | | | 103.0 | 63.7 | 51.5 | 77.2 |
| | | | | | 153.0 | 55.9 | 43.9 | 65.9 |
| | | | | | 85.0 | 43.4 | 36.4 | 54.6 |



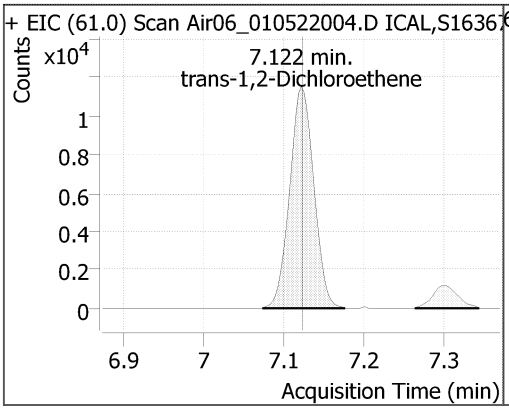
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.3058 | 6.57 | 0.00 | 40251 | 44.0 | 17.9 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.7 | 9.0 | 13.5 |

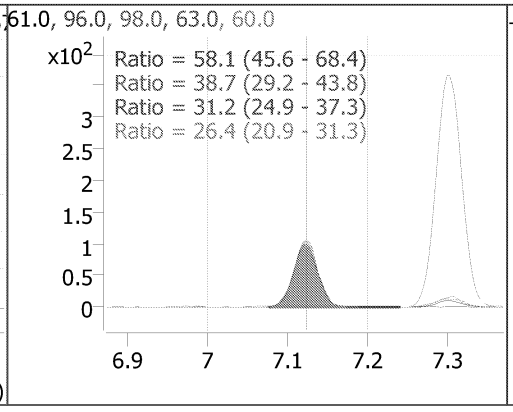


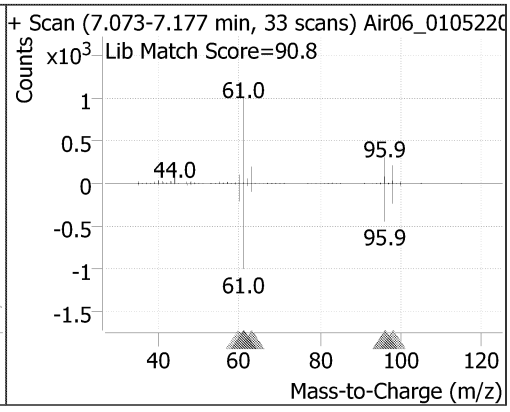



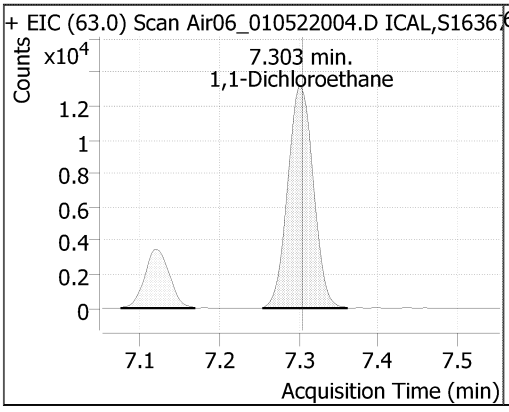

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.3080 | 7.12 | 0.00 | 24278 | 96.0 | 58.1 | 45.6 | 68.4 |
| | | | | | 98.0 | 38.7 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.2 | 24.9 | 37.3 |
| | | | | | 60.0 | 26.4 | 20.9 | 31.3 |

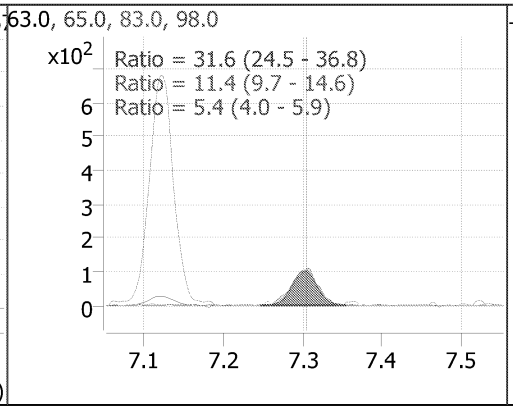


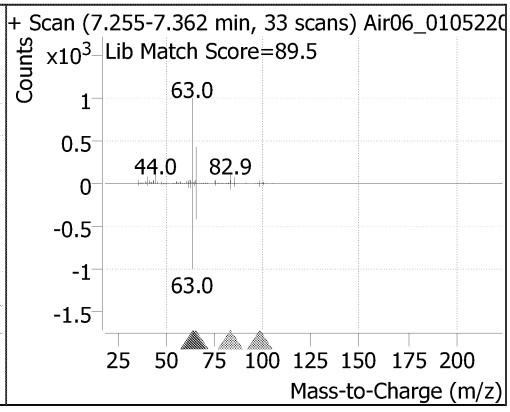



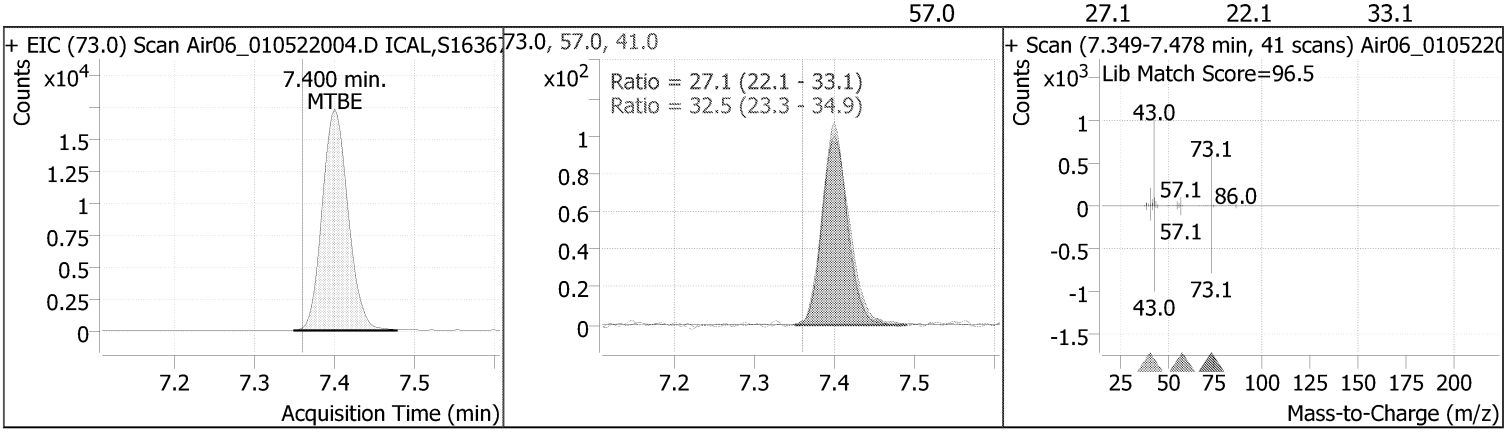

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.3055 | 7.30 | 0.00 | 29566 | 65.0 | 31.6 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.4 | 9.7 | 14.6 |
| | | | | | 98.0 | 5.4 | 4.0 | 5.9 |



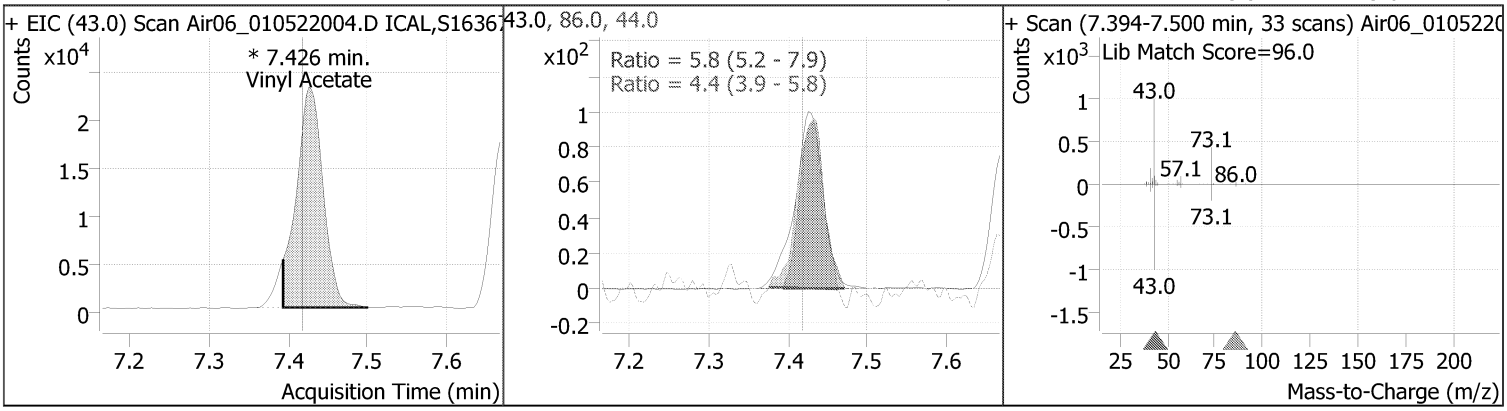



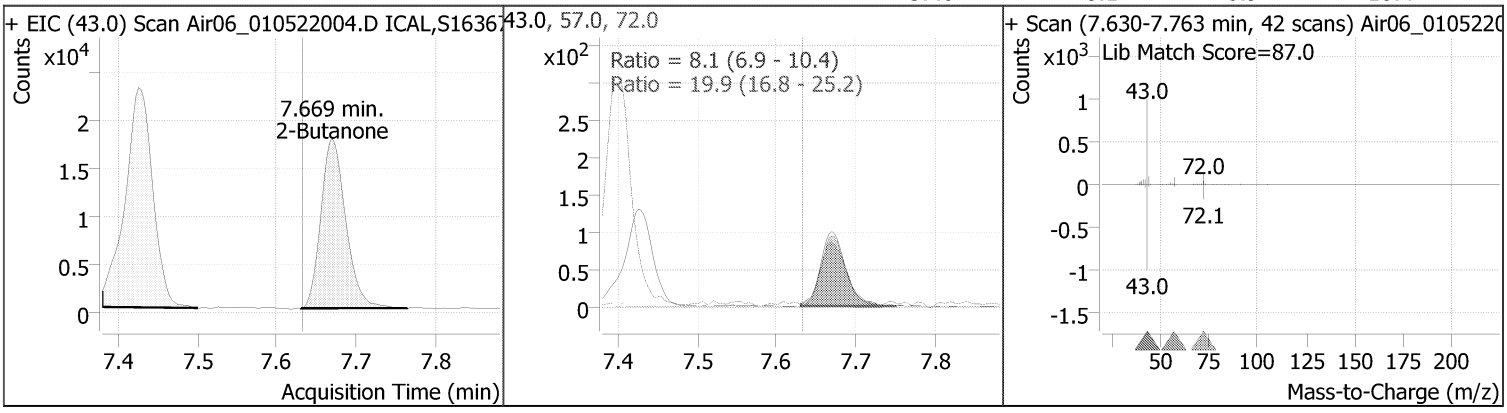
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.3055 | 7.40 | 0.04 | 39177 | 41.0 | 32.5 | 23.3 | 34.9 |
| | | | | | 57.0 | 27.1 | 22.1 | 33.1 |



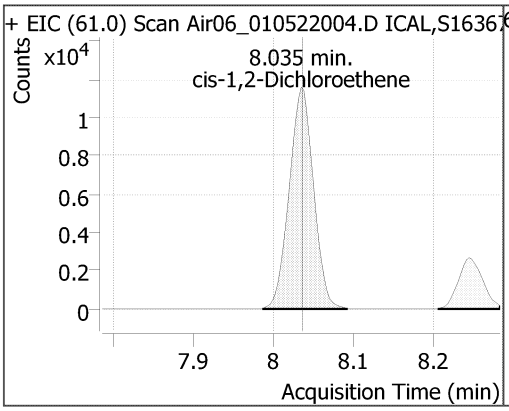

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.3294 | 7.43 | 0.01 | 53500 (m) | 86.0 | 5.8 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.4 | 3.9 | 5.8 |

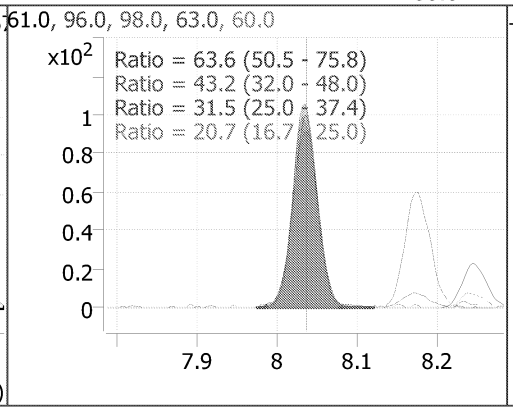


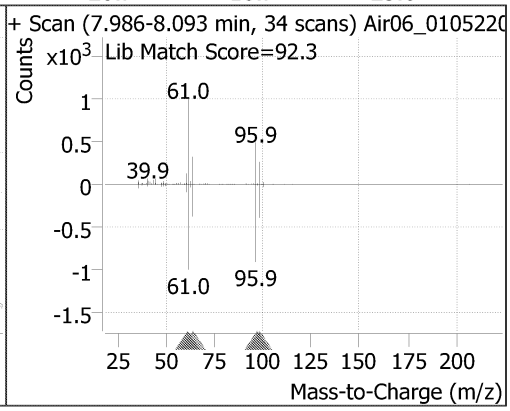

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.3060 | 7.67 | 0.04 | 38285 | 72.0 | 19.9 | 16.8 | 25.2 |
| | | | | | 57.0 | 8.1 | 6.9 | 10.4 |



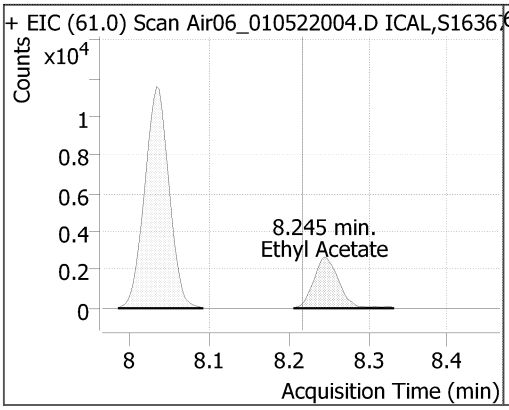
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.3085 | 8.03 | 0.00 | 24591 | 96.0 | 63.6 | 50.5 | 75.8 |
| | | | | | 98.0 | 43.2 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.5 | 25.0 | 37.4 |
| | | | | | 60.0 | 20.7 | 16.7 | 25.0 |

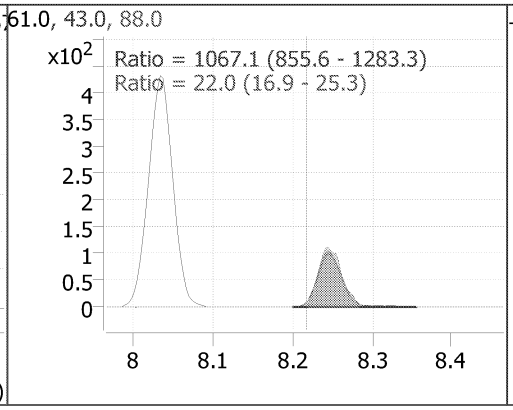


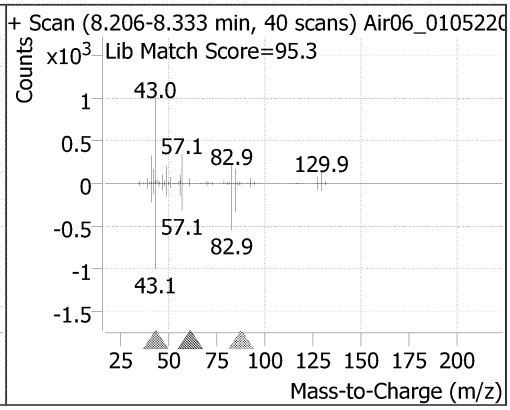



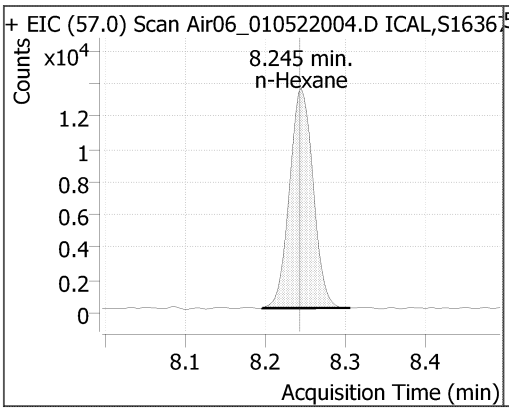

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.2987 | 8.25 | 0.03 | 5867 | 43.0 | 1067.1 | 855.6 | 1283.3 |
| | | | | | 88.0 | 22.0 | 16.9 | 25.3 |

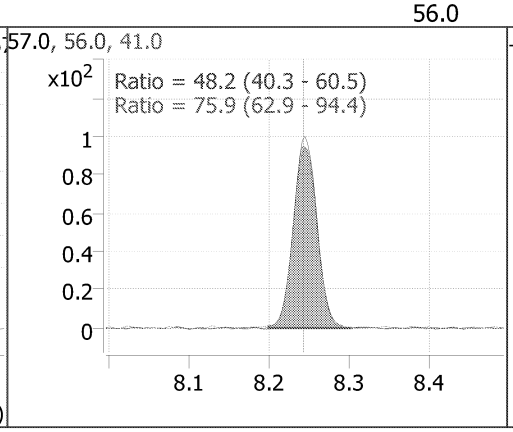


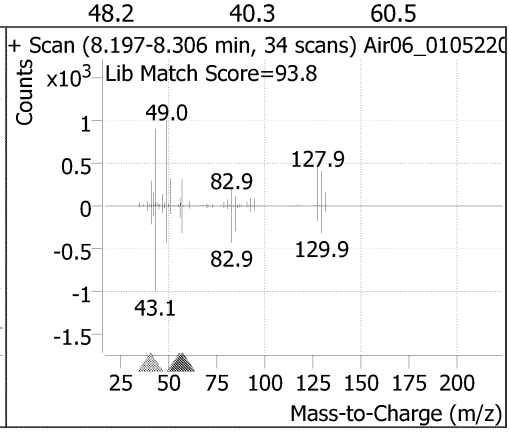



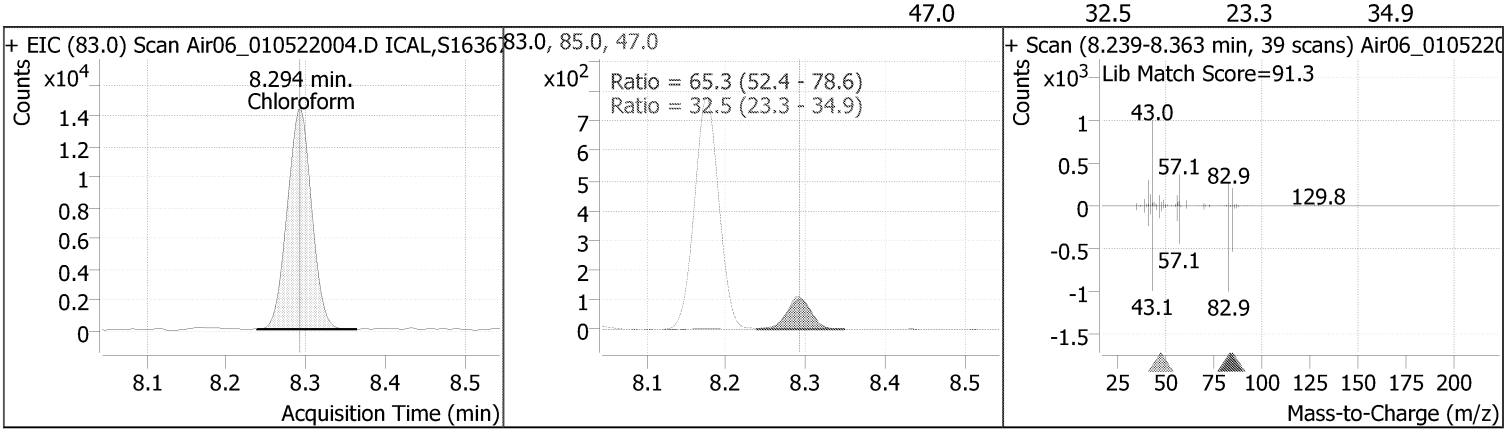

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.3078 | 8.25 | 0.00 | 27769 | 41.0 | 75.9 | 62.9 | 94.4 |
| | | | | | 56.0 | 48.2 | 40.3 | 60.5 |



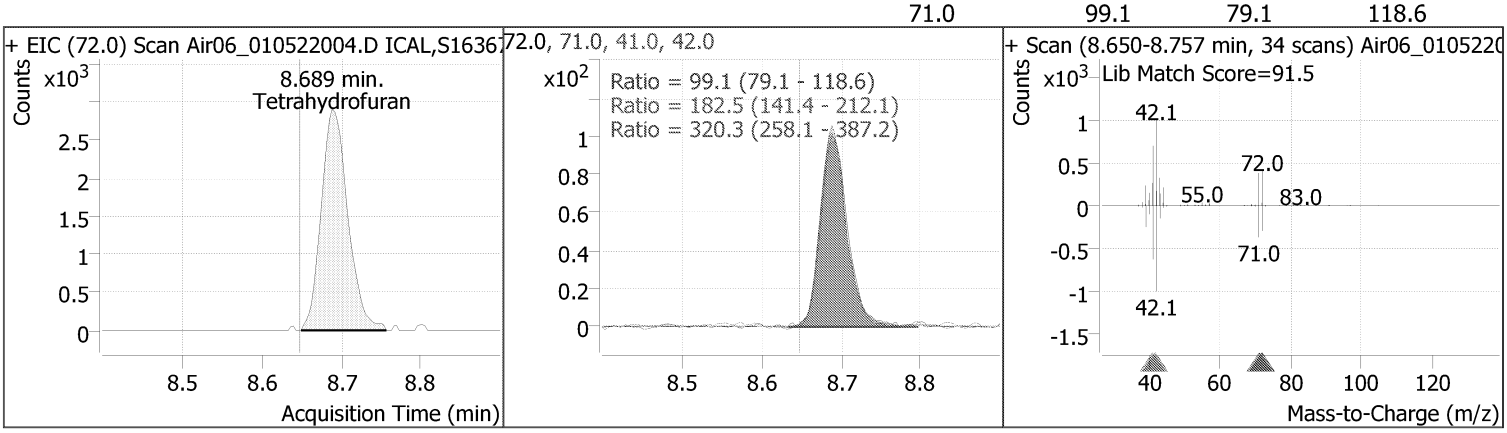



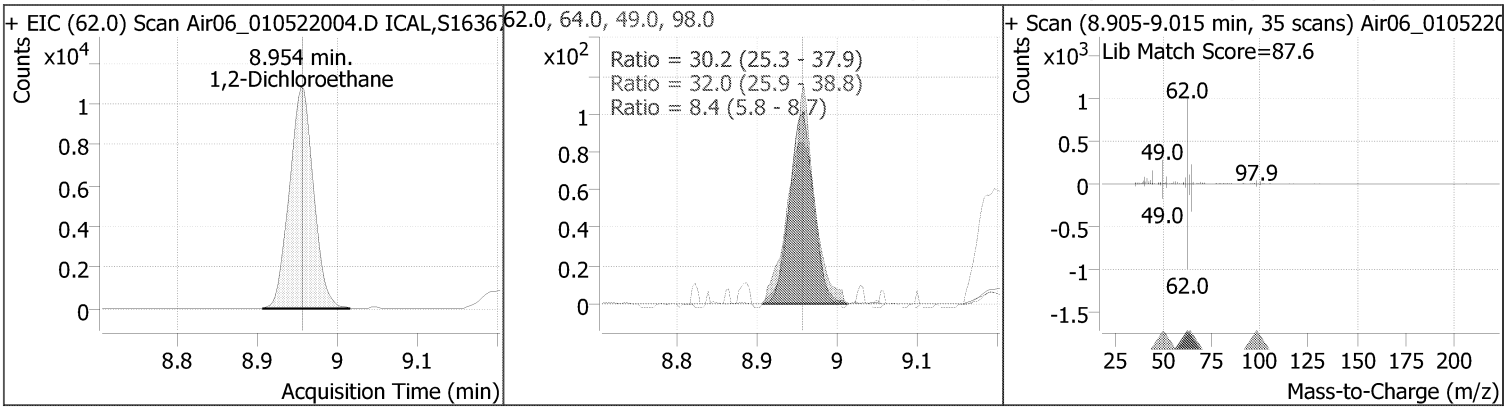
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.3017 | 8.29 | 0.00 | 30687 | 85.0 | 65.3 | 52.4 | 78.6 |
| | | | | | 47.0 | 32.5 | 23.3 | 34.9 |



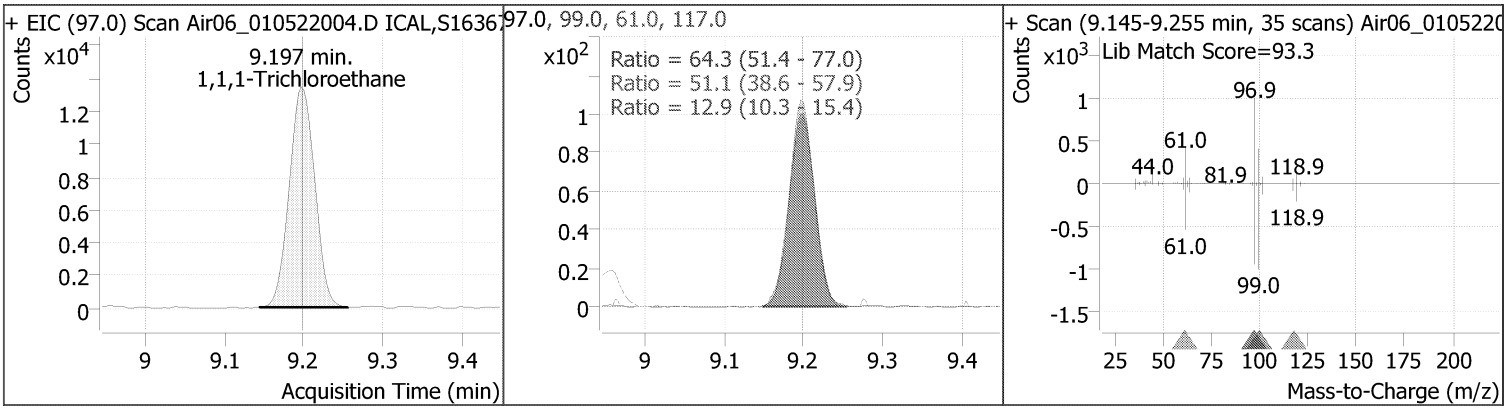

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.3013 | 8.69 | 0.04 | 6761 | 42.0 | 320.3 | 258.1 | 387.2 |
| | | | | | 41.0 | 182.5 | 141.4 | 212.1 |
| | | | | | 71.0 | 99.1 | 79.1 | 118.6 |



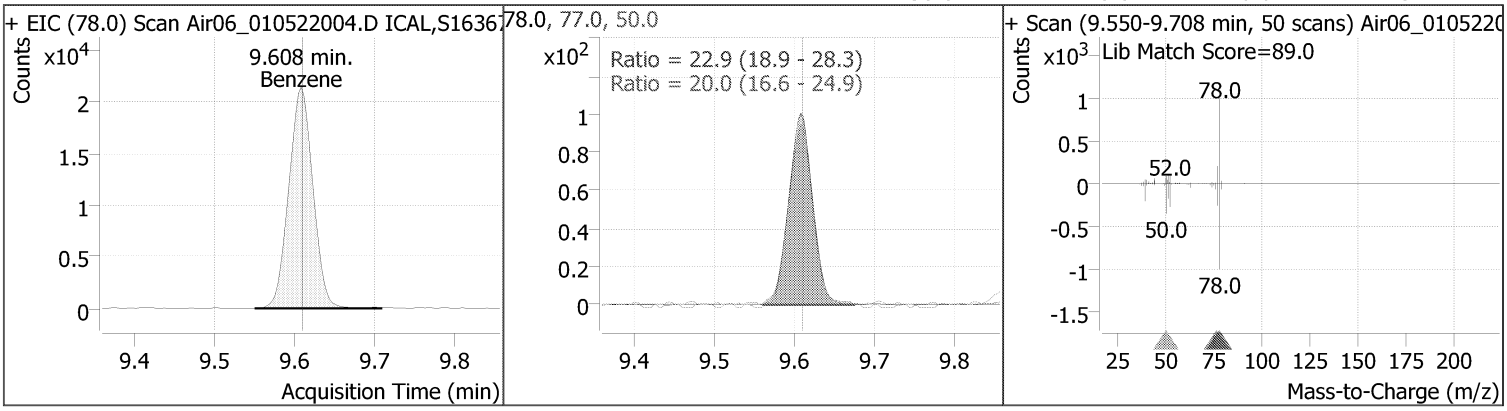

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.3060 | 8.95 | 0.00 | 22796 | 49.0 | 32.0 | 25.9 | 38.8 |
| | | | | | 64.0 | 30.2 | 25.3 | 37.9 |
| | | | | | 98.0 | 8.4 | 5.8 | 8.7 |



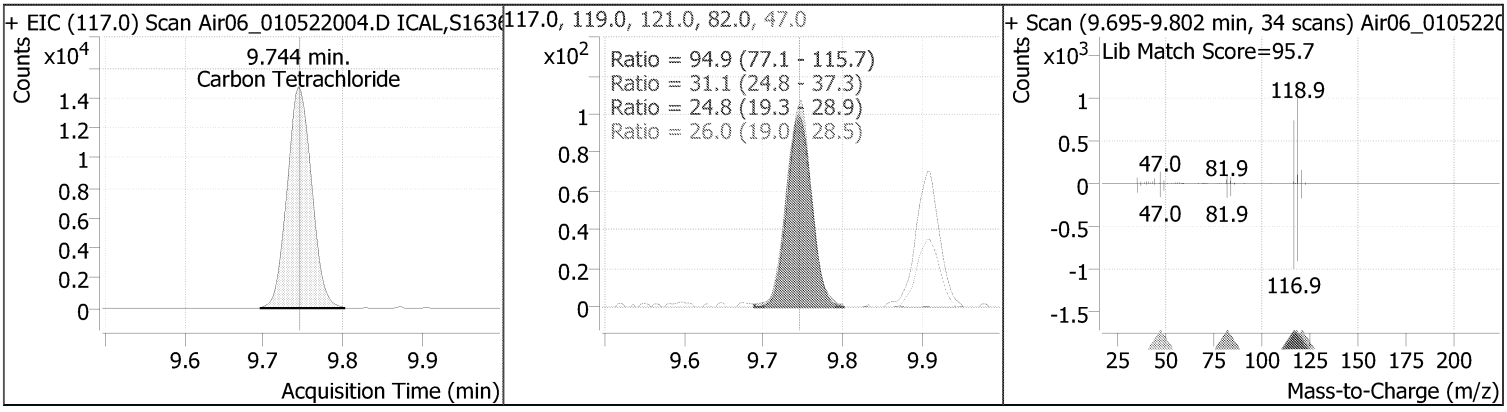
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.3039 | 9.20 | 0.00 | 29903 | 99.0 | 64.3 | 51.4 | 77.0 |
| | | | | | 61.0 | 51.1 | 38.6 | 57.9 |
| | | | | | 117.0 | 12.9 | 10.3 | 15.4 |



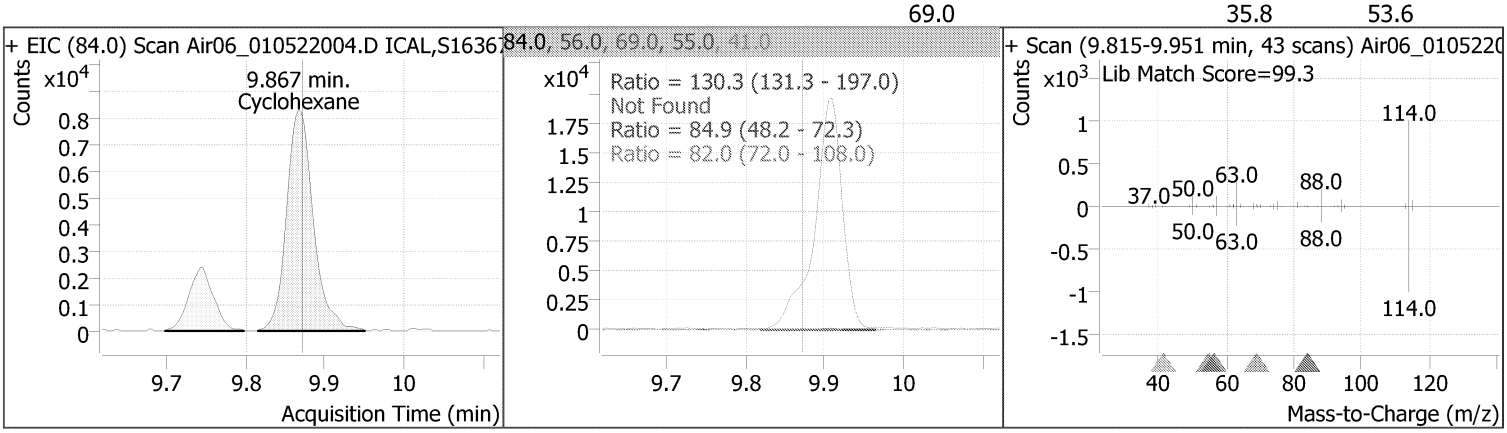

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.3092 | 9.61 | 0.00 | 45342 | 77.0 | 22.9 | 18.9 | 28.3 |
| | | | | | 50.0 | 20.0 | 16.6 | 24.9 |



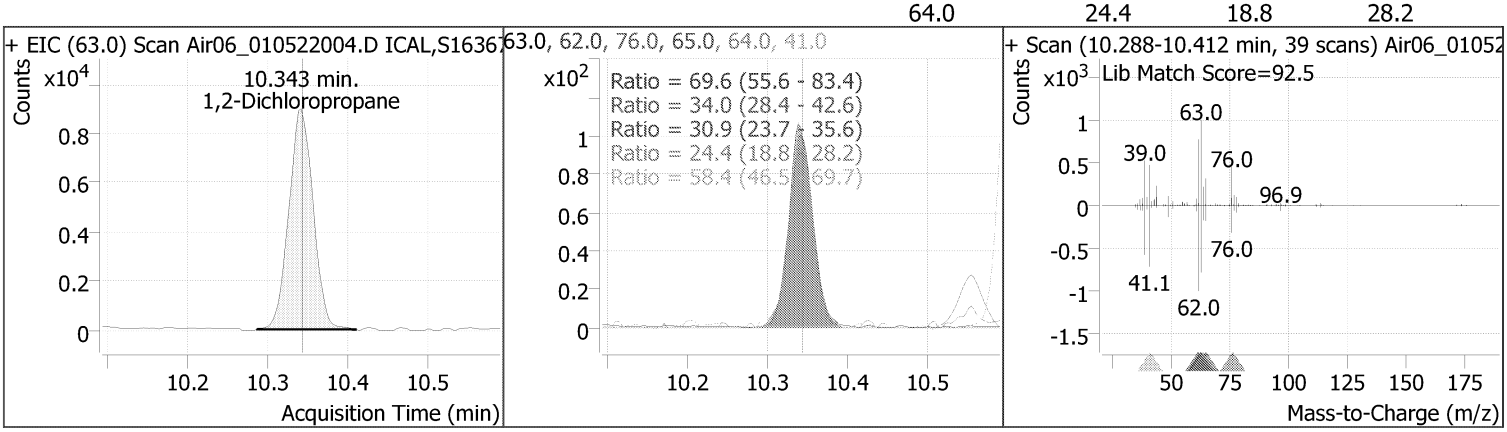

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.3004 | 9.74 | 0.00 | 31529 | 119.0 | 94.9 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.1 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.8 | 19.3 | 28.9 |
| | | | | | 47.0 | 26.0 | 19.0 | 28.5 |



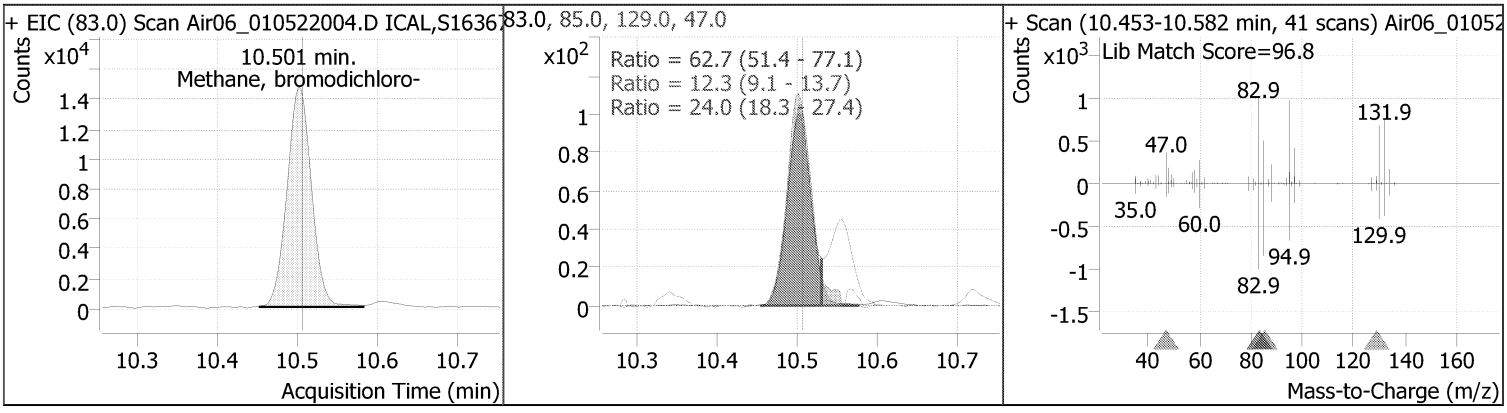
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.3180 | 9.87 | 0.00 | 19485 | 56.0 | 130.3 | 131.3 | 197.0 |
| | | | | | 41.0 | 82.0 | 72.0 | 108.0 |
| | | | | | 55.0 | 84.9 | 48.2 | 72.3 |
| | | | | | 69.0 | | 35.8 | 53.6 |



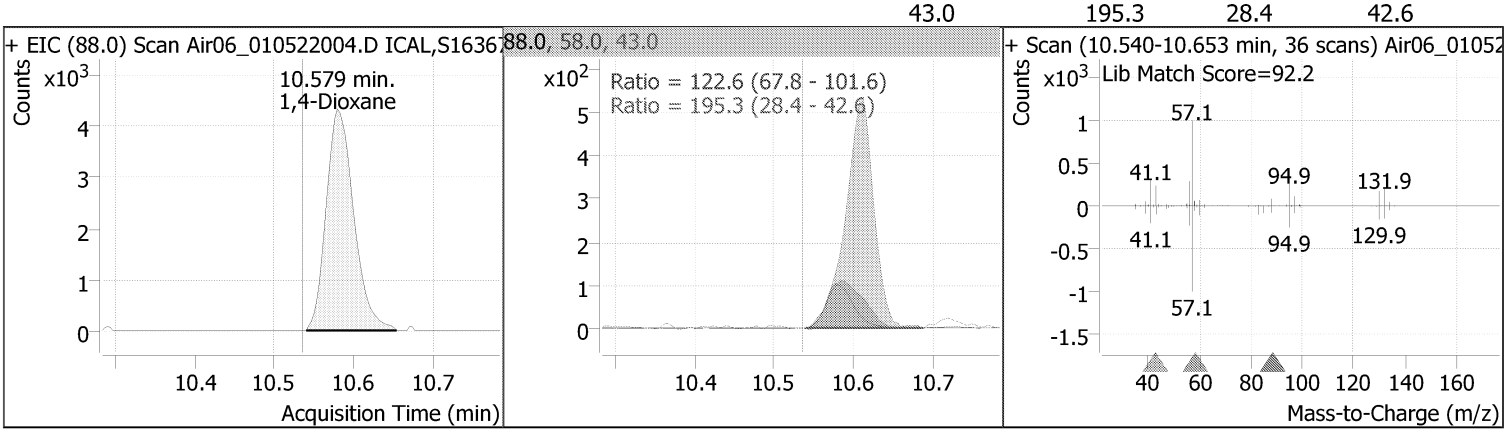

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.2972 | 10.34 | 0.00 | 19056 | 62.0 | 69.6 | 55.6 | 83.4 |
| | | | | | 41.0 | 58.4 | 46.5 | 69.7 |
| | | | | | 76.0 | 34.0 | 28.4 | 42.6 |
| | | | | | 65.0 | 30.9 | 23.7 | 35.6 |
| | | | | | 64.0 | 24.4 | 18.8 | 28.2 |



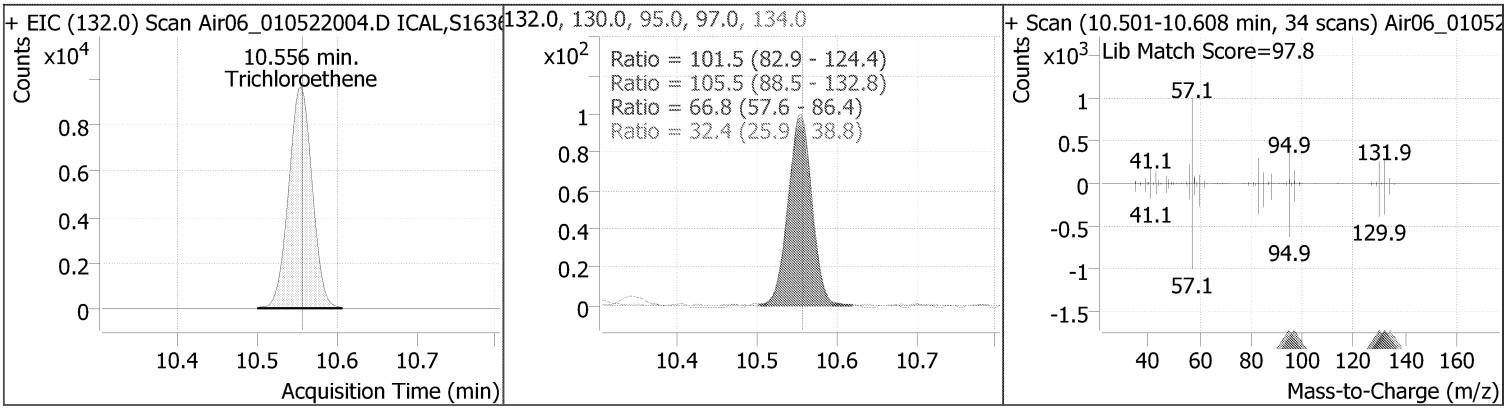

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.3001 | 10.50 | 0.00 | 31397 | 85.0 | 62.7 | 51.4 | 77.1 |
| | | | | | 47.0 | 24.0 | 18.3 | 27.4 |
| | | | | | 129.0 | 12.3 | 9.1 | 13.7 |



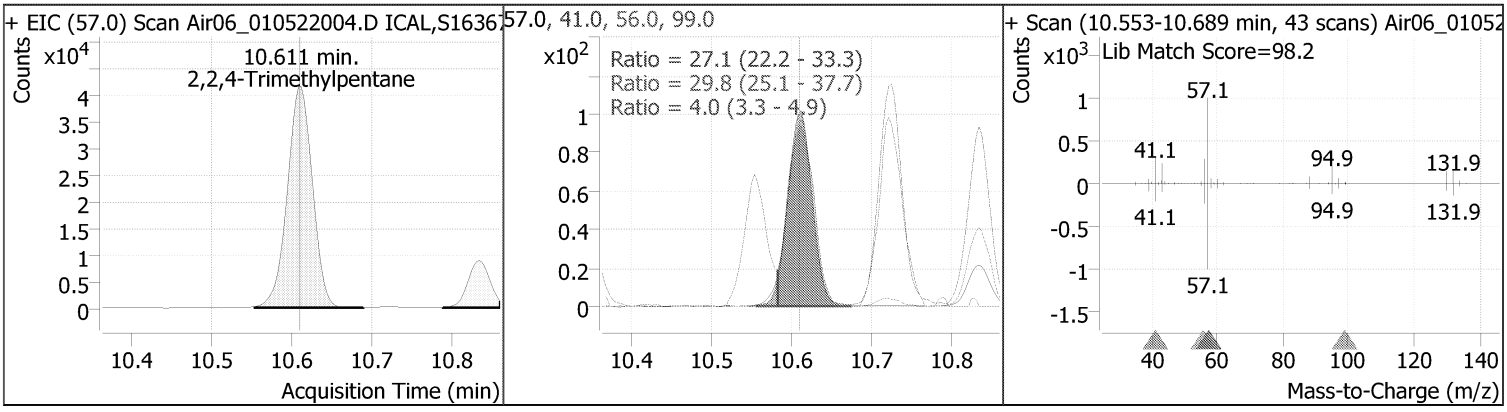
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.3128 | 10.58 | 0.05 | 10464 | 58.0 | 122.6 | 67.8 | 101.6 |
| | | | | | 43.0 | 195.3 | 28.4 | 42.6 |



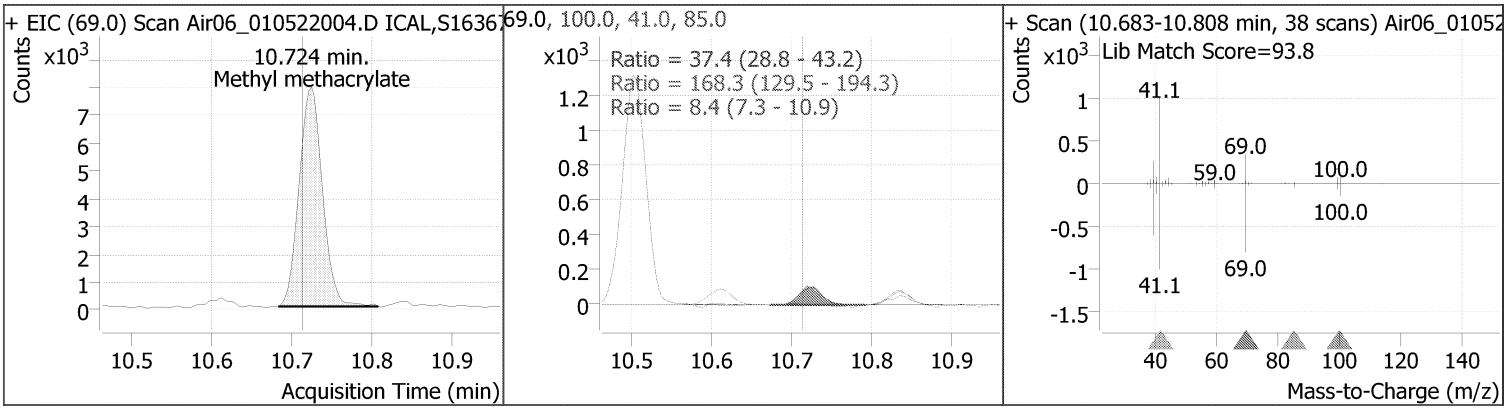

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.3054 | 10.56 | 0.00 | 19915 | 95.0 | 105.5 | 88.5 | 132.8 |
| | | | | | 130.0 | 101.5 | 82.9 | 124.4 |
| | | | | | 97.0 | 66.8 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.4 | 25.9 | 38.8 |



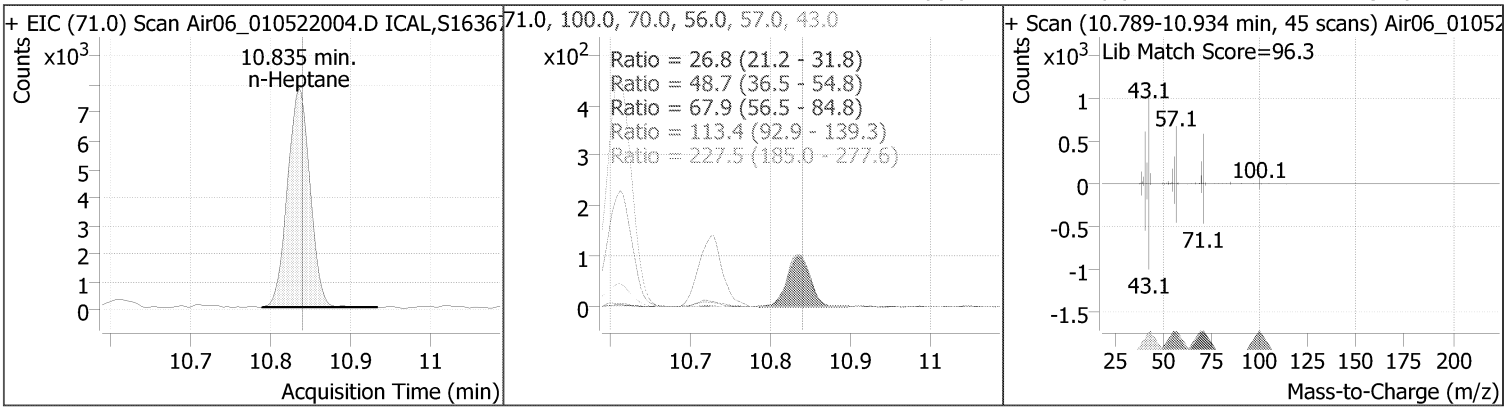

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.3125 | 10.61 | 0.00 | 91169 | 56.0 | 29.8 | 25.1 | 37.7 |
| | | | | | 41.0 | 27.1 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.0 | 3.3 | 4.9 |



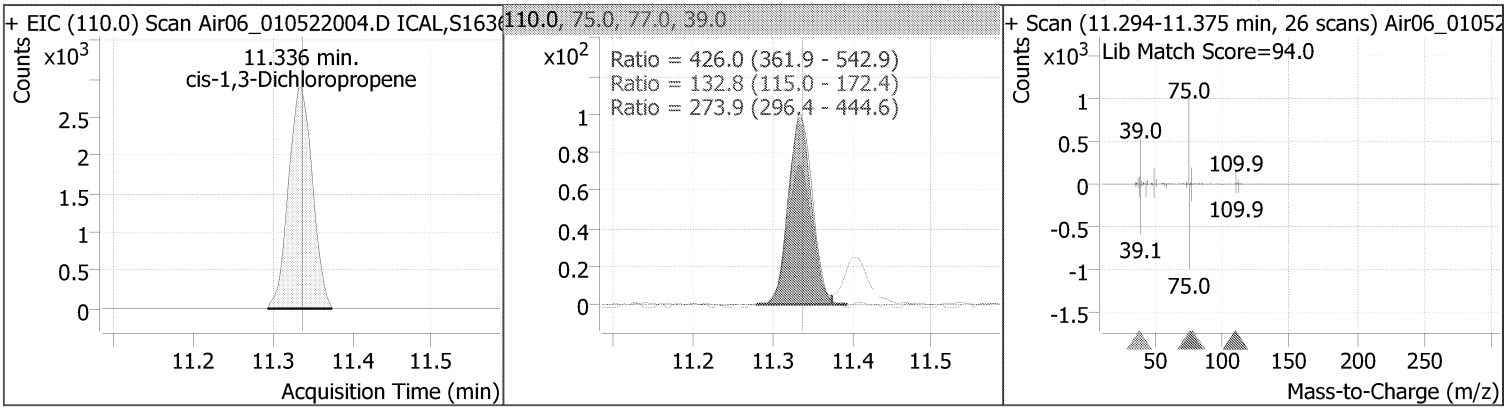
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.2953 | 10.72 | 0.01 | 16073 | 41.0 | 168.3 | 129.5 | 194.3 |
| | | | | | 100.0 | 37.4 | 28.8 | 43.2 |
| | | | | | 85.0 | 8.4 | 7.3 | 10.9 |



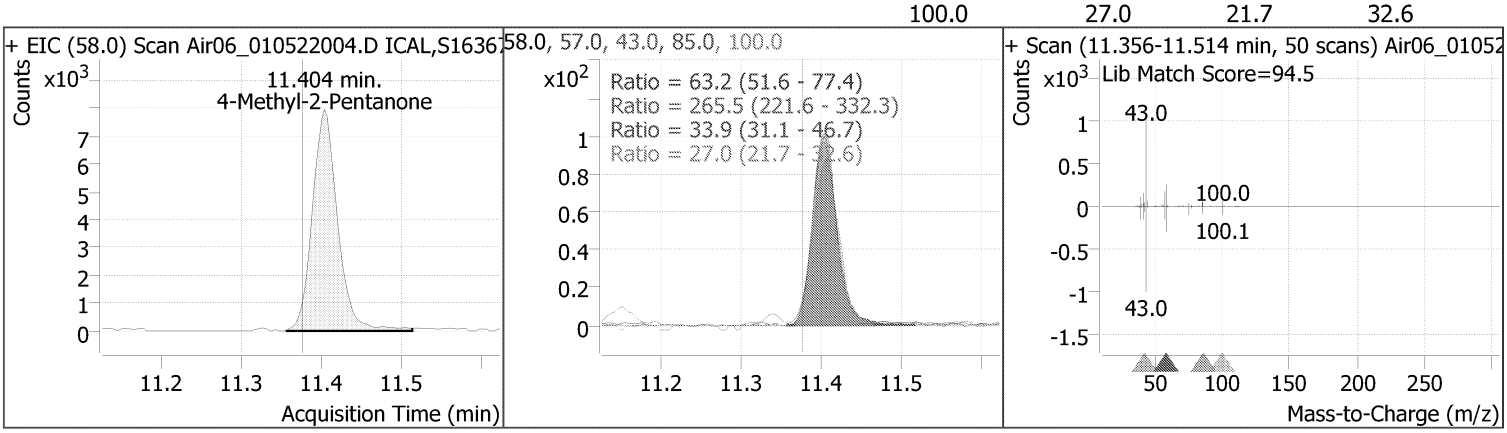

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.3022 | 10.83 | 0.00 | 15231 | 43.0 | 227.5 | 185.0 | 277.6 |
| | | | | | 57.0 | 113.4 | 92.9 | 139.3 |
| | | | | | 56.0 | 67.9 | 56.5 | 84.8 |
| | | | | | 70.0 | 48.7 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.8 | 21.2 | 31.8 |



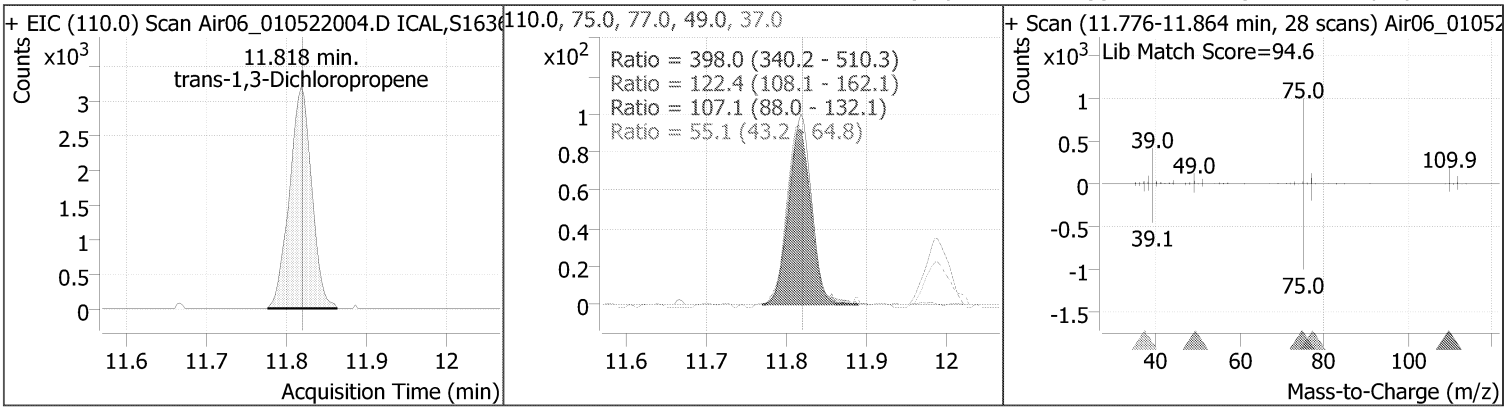

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 0.2971 | 11.34 | 0.00 | 6047 | 75.0 | 426.0 | 361.9 | 542.9 |
| | | | | | 39.0 | 273.9 | 296.4 | 444.6 |
| | | | | | 77.0 | 132.8 | 115.0 | 172.4 |



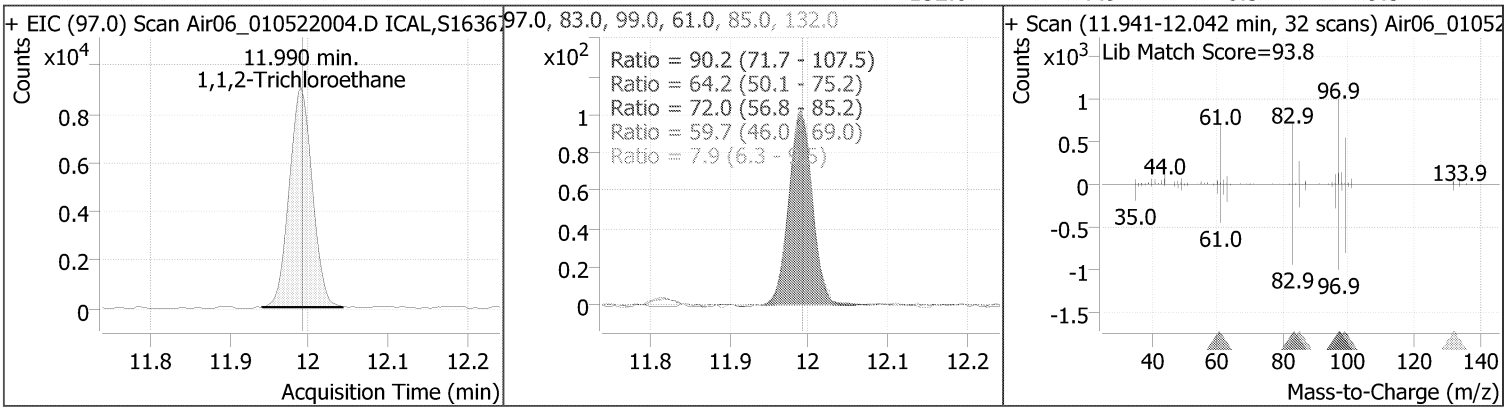
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.3107 | 11.40 | 0.03 | 17469 | 43.0 | 265.5 | 221.6 | 332.3 |
| | | | | | 57.0 | 63.2 | 51.6 | 77.4 |
| | | | | | 85.0 | 33.9 | 31.1 | 46.7 |
| | | | | | 100.0 | 27.0 | 21.7 | 32.6 |



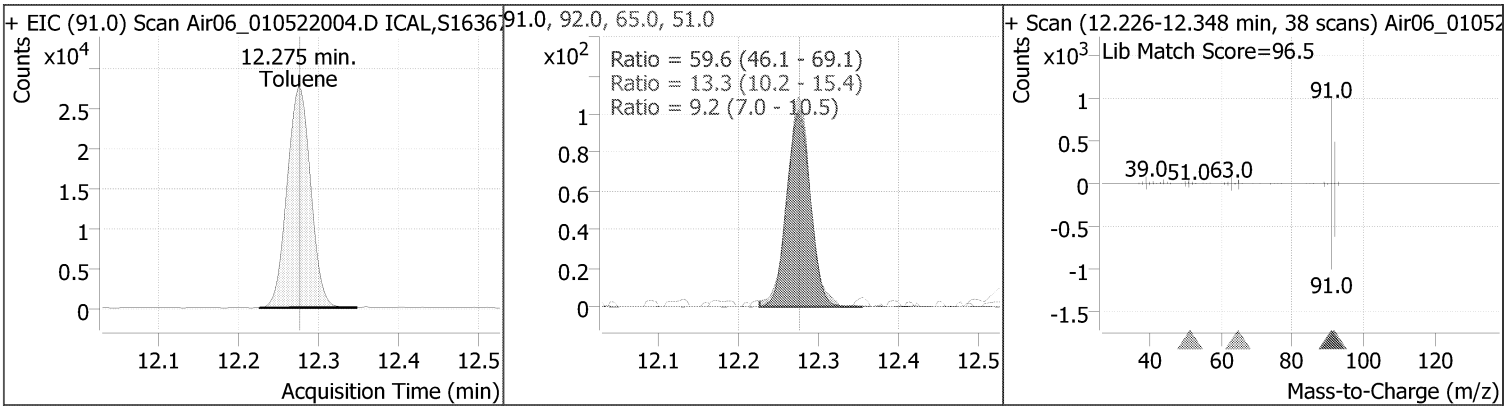

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.2974 | 11.82 | 0.00 | 6206 | 75.0 | 398.0 | 340.2 | 510.3 |
| | | | | | 77.0 | 122.4 | 108.1 | 162.1 |
| | | | | | 49.0 | 107.1 | 88.0 | 132.1 |
| | | | | | 37.0 | 55.1 | 43.2 | 64.8 |



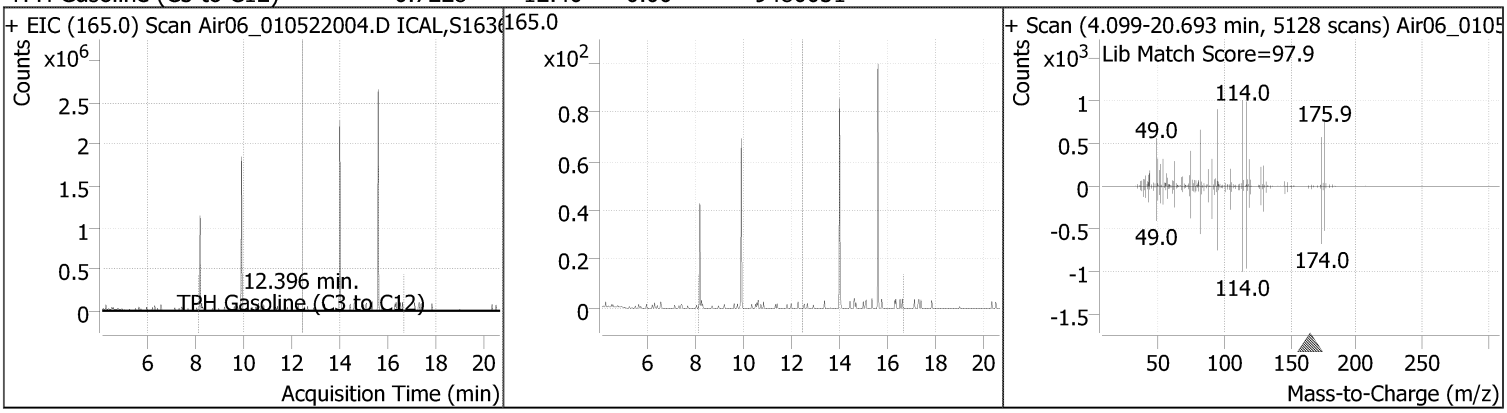

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.2965 | 11.99 | 0.00 | 18103 | 83.0 | 90.2 | 71.7 | 107.5 |
| | | | | | 61.0 | 72.0 | 56.8 | 85.2 |
| | | | | | 99.0 | 64.2 | 50.1 | 75.2 |
| | | | | | 85.0 | 59.7 | 46.0 | 69.0 |
| | | | | | 132.0 | 7.9 | 6.3 | 9.5 |



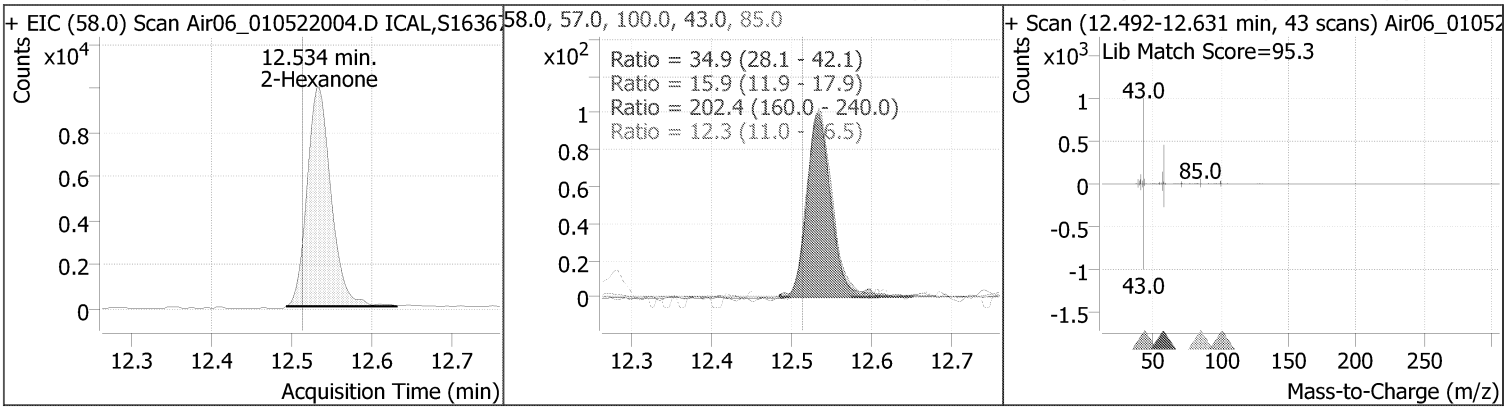
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.3080 | 12.27 | 0.00 | 57146 | 92.0 | 59.6 | 46.1 | 69.1 |
| | | | | | 65.0 | 13.3 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.2 | 7.0 | 10.5 |



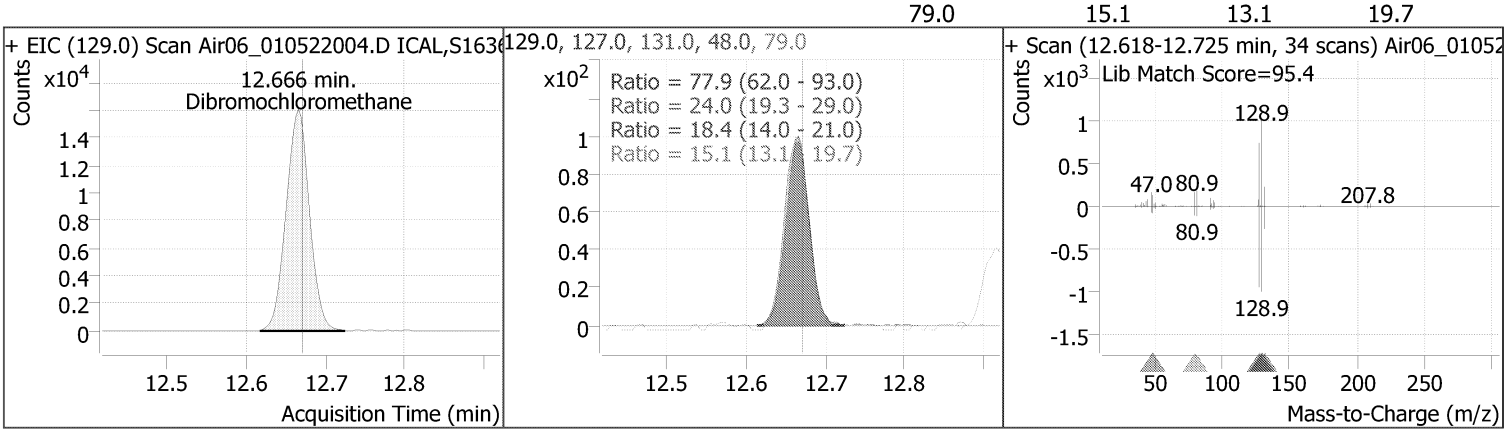

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 0.7228 | 12.40 | 0.00 | 9480031 | | | | |



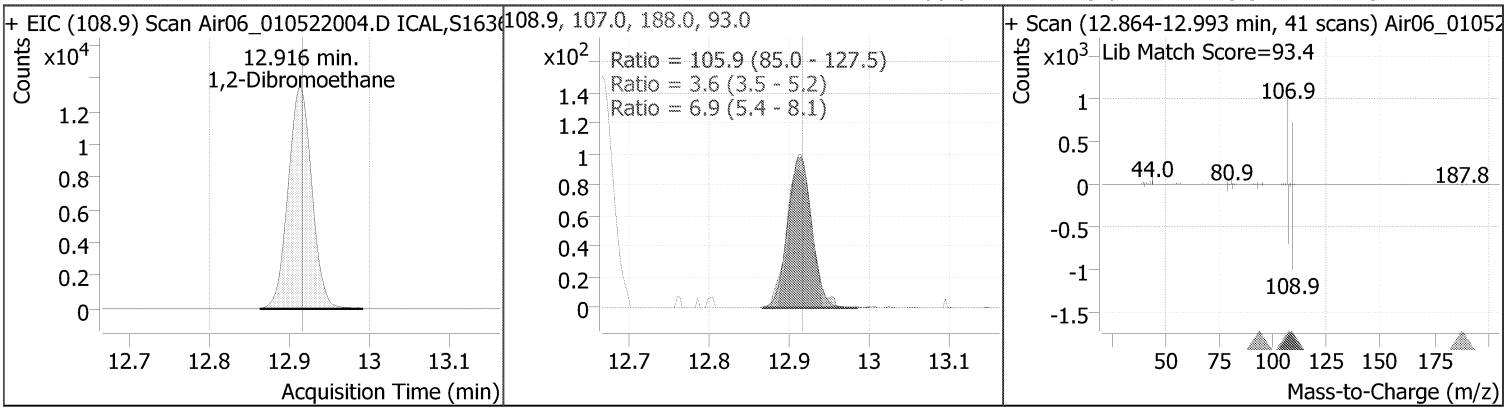

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.2912 | 12.53 | 0.02 | 21028 | 43.0 | 202.4 | 160.0 | 240.0 |
| | | | | | 57.0 | 34.9 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.9 | 11.9 | 17.9 |
| | | | | | 85.0 | 12.3 | 11.0 | 16.5 |



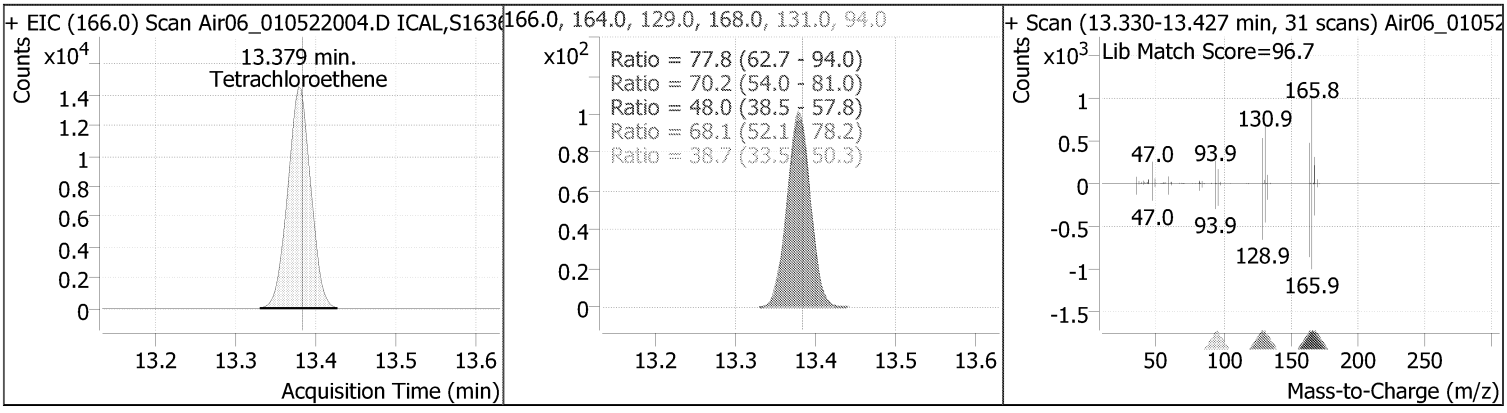
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.2947 | 12.67 | 0.00 | 32667 | 127.0 | 77.9 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.0 | 19.3 | 29.0 |
| | | | | | 48.0 | 18.4 | 14.0 | 21.0 |
| | | | | | 79.0 | 15.1 | 13.1 | 19.7 |



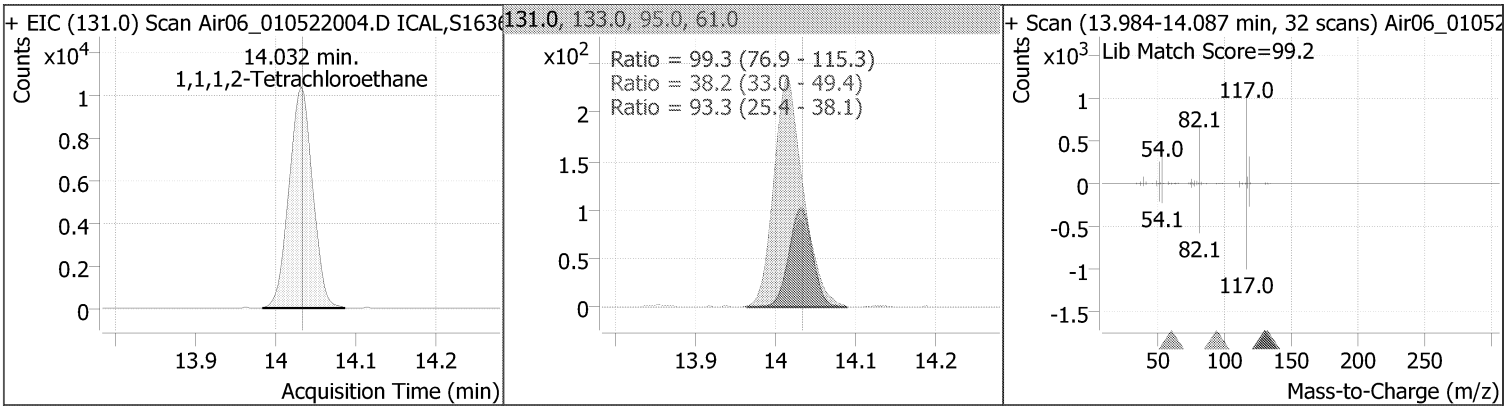

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.2973 | 12.92 | 0.00 | 27924 | 107.0 | 105.9 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.9 | 5.4 | 8.1 |
| | | | | | 188.0 | 3.6 | 3.5 | 5.2 |



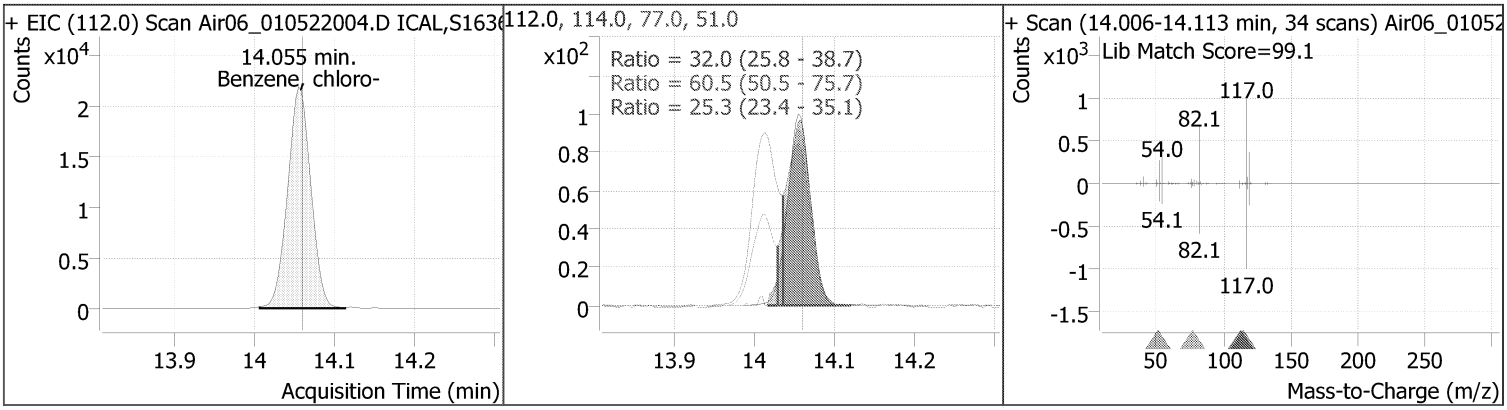

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.3033 | 13.38 | 0.00 | 29093 | 164.0 | 77.8 | 62.7 | 94.0 |
| | | | | | 129.0 | 70.2 | 54.0 | 81.0 |
| | | | | | 131.0 | 68.1 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.0 | 38.5 | 57.8 |
| | | | | | 94.0 | 38.7 | 33.5 | 50.3 |



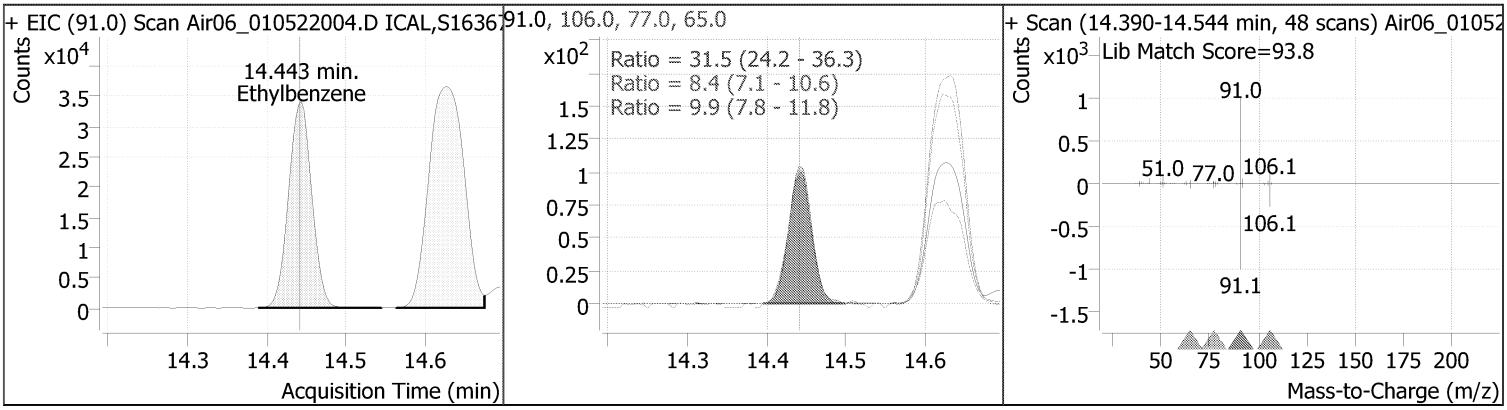
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.3039 | 14.03 | 0.00 | 21351 | 133.0 | 99.3 | 76.9 | 115.3 |
| | | | | | 95.0 | 38.2 | 33.0 | 49.4 |
| | | | | | 61.0 | 93.3 | 25.4 | 38.1 |



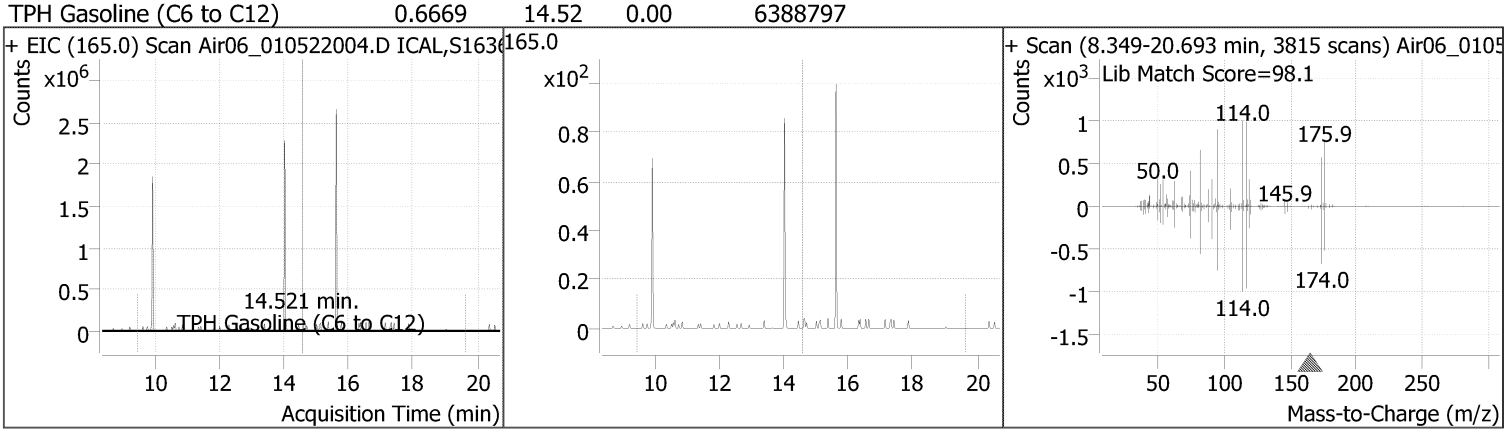

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.3182 | 14.06 | -0.01 | 44368 | 77.0 | 60.5 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.0 | 25.8 | 38.7 |
| | | | | | 51.0 | 25.3 | 23.4 | 35.1 |



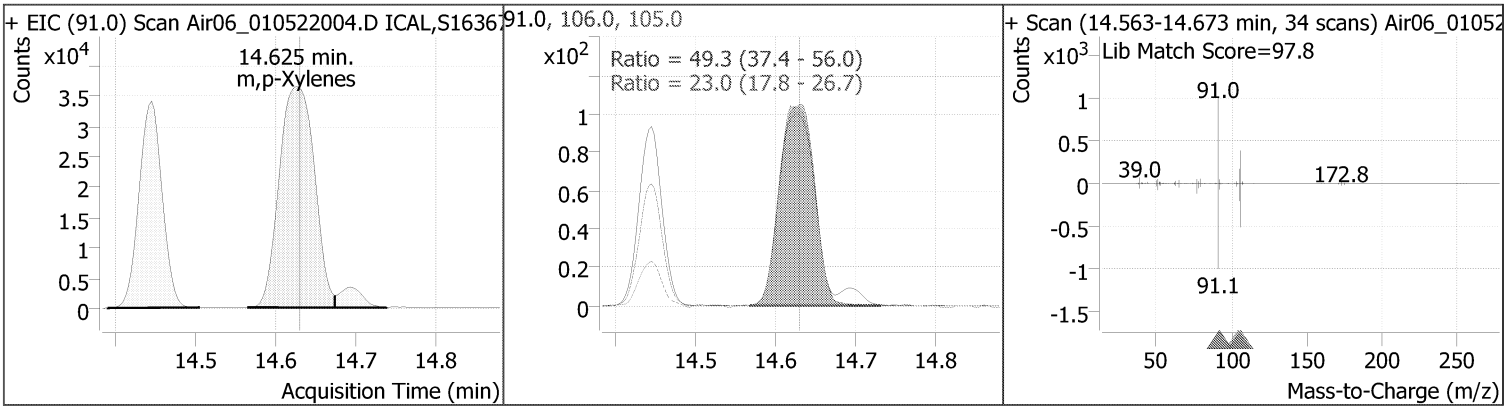

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.3124 | 14.44 | 0.00 | 69208 | 106.0 | 31.5 | 24.2 | 36.3 |
| | | | | | 65.0 | 9.9 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.4 | 7.1 | 10.6 |



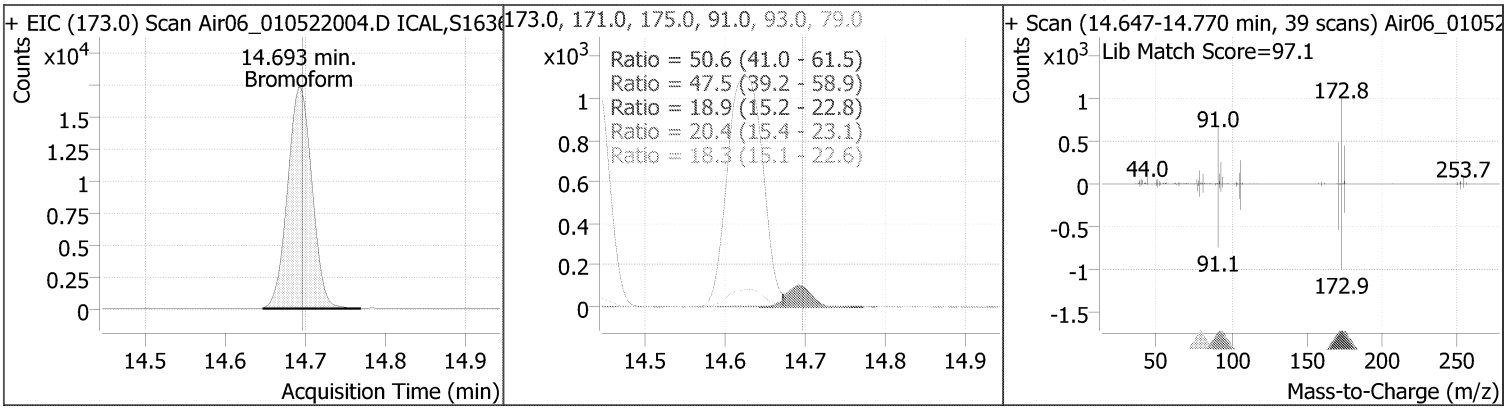
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 0.6669 | 14.52 | 0.00 | 6388797 | | | | |



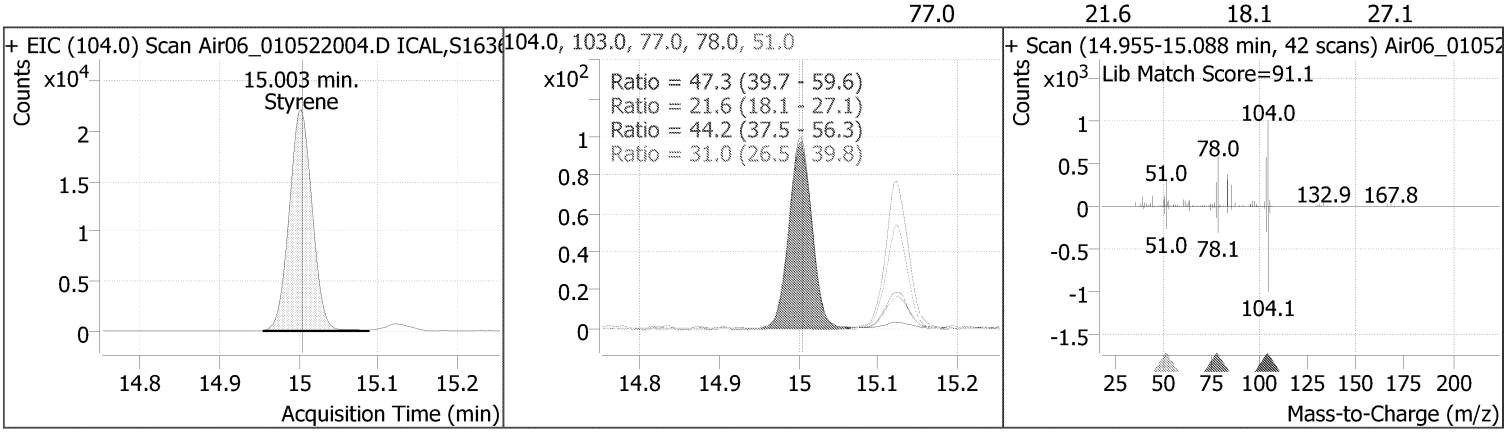

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.6288 | 14.62 | -0.01 | 112036 | 106.0 | 49.3 | 37.4 | 56.0 |
| | | | | | 105.0 | 23.0 | 17.8 | 26.7 |



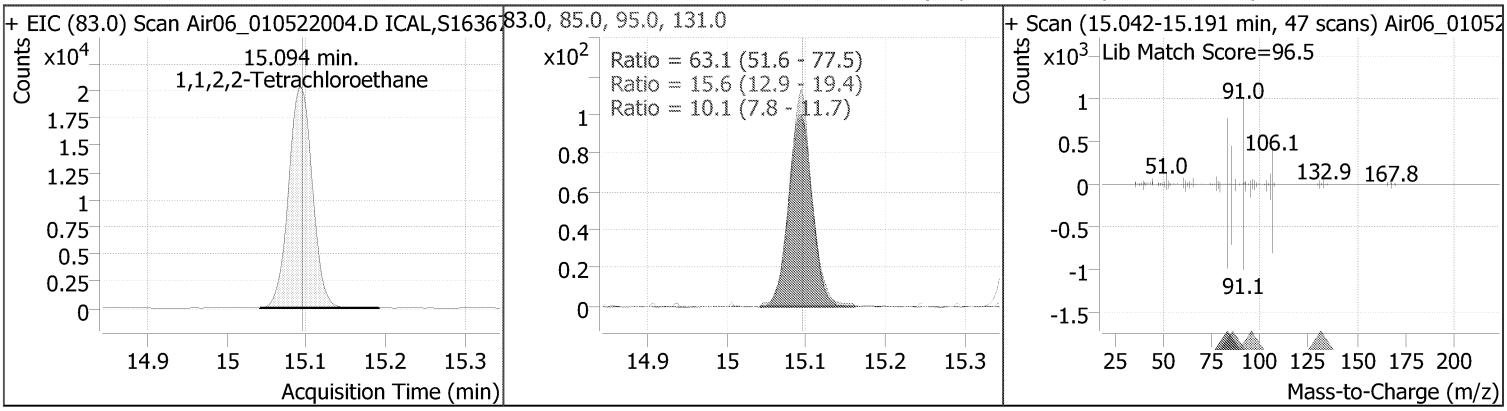

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.3020 | 14.69 | -0.01 | 36854 | 171.0 | 50.6 | 41.0 | 61.5 |
| | | | | | 175.0 | 47.5 | 39.2 | 58.9 |
| | | | | | 93.0 | 20.4 | 15.4 | 23.1 |
| | | | | | 91.0 | 18.9 | 15.2 | 22.8 |
| | | | | | 79.0 | 18.3 | 15.1 | 22.6 |



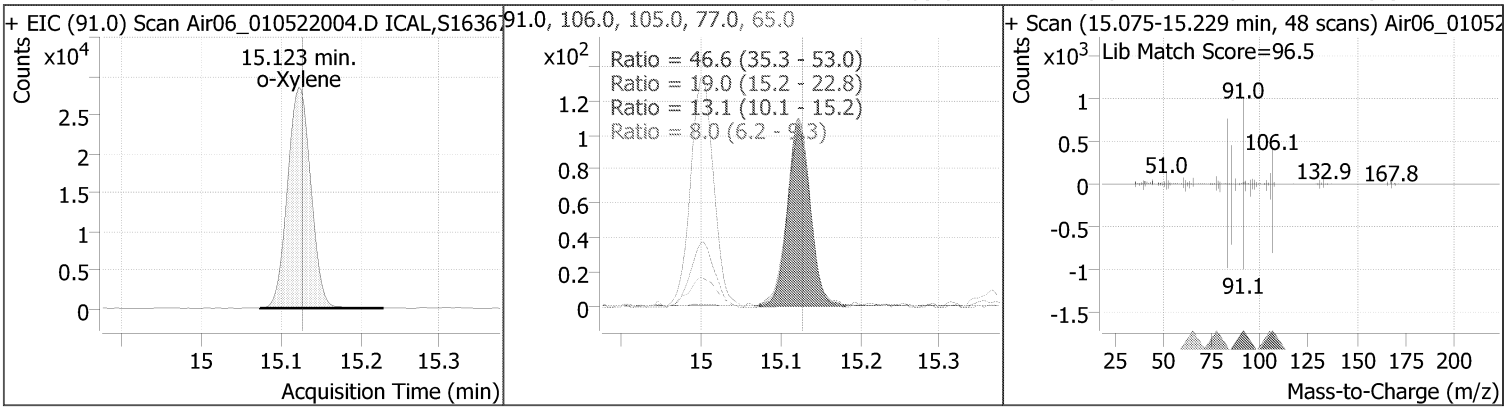
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.3145 | 15.00 | 0.00 | 44408 | 103.0 | 47.3 | 39.7 | 59.6 |
| | | | | | 78.0 | 44.2 | 37.5 | 56.3 |
| | | | | | 51.0 | 31.0 | 26.5 | 39.8 |
| | | | | | 77.0 | 21.6 | 18.1 | 27.1 |



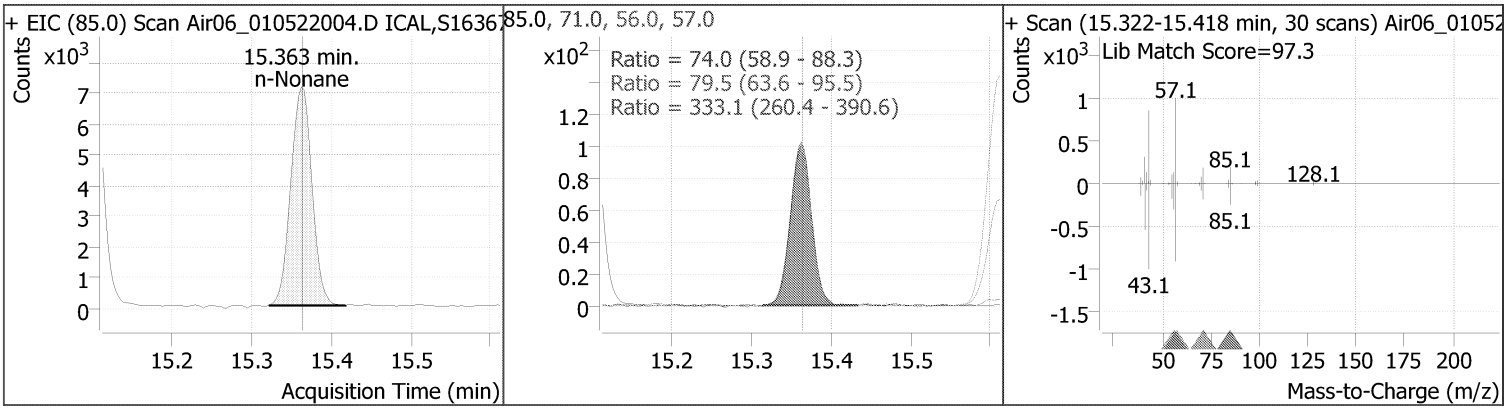

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.3137 | 15.09 | 0.00 | 42234 | 85.0 | 63.1 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.6 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.1 | 7.8 | 11.7 |



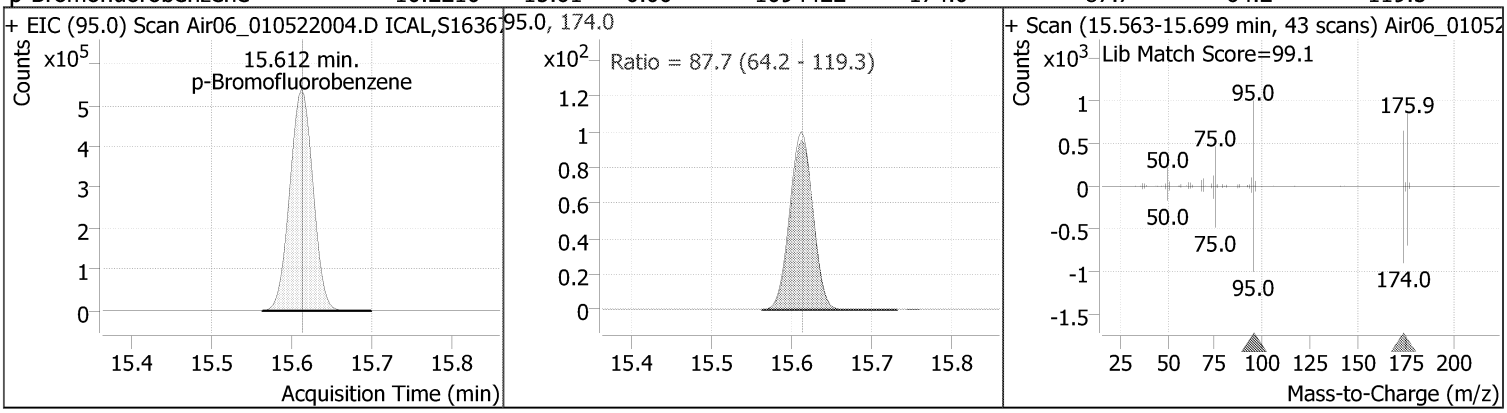

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.3168 | 15.12 | -0.01 | 58035 | 106.0 | 46.6 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.0 | 15.2 | 22.8 |
| | | | | | 77.0 | 13.1 | 10.1 | 15.2 |
| | | | | | 65.0 | 8.0 | 6.2 | 9.3 |



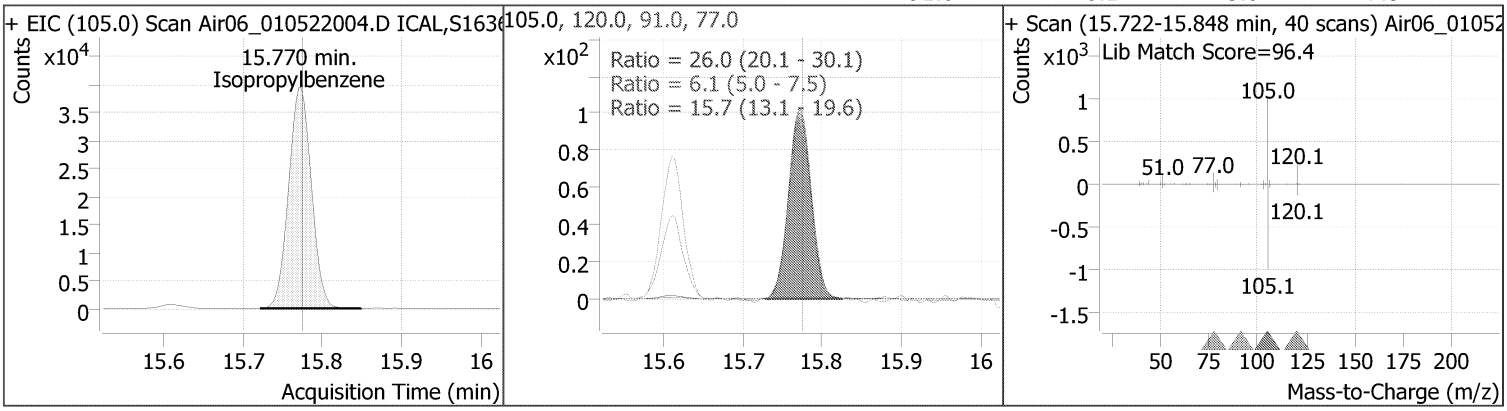
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.3108 | 15.36 | 0.00 | 13151 | 57.0 | 333.1 | 260.4 | 390.6 |
| | | | | | 56.0 | 79.5 | 63.6 | 95.5 |
| | | | | | 71.0 | 74.0 | 58.9 | 88.3 |



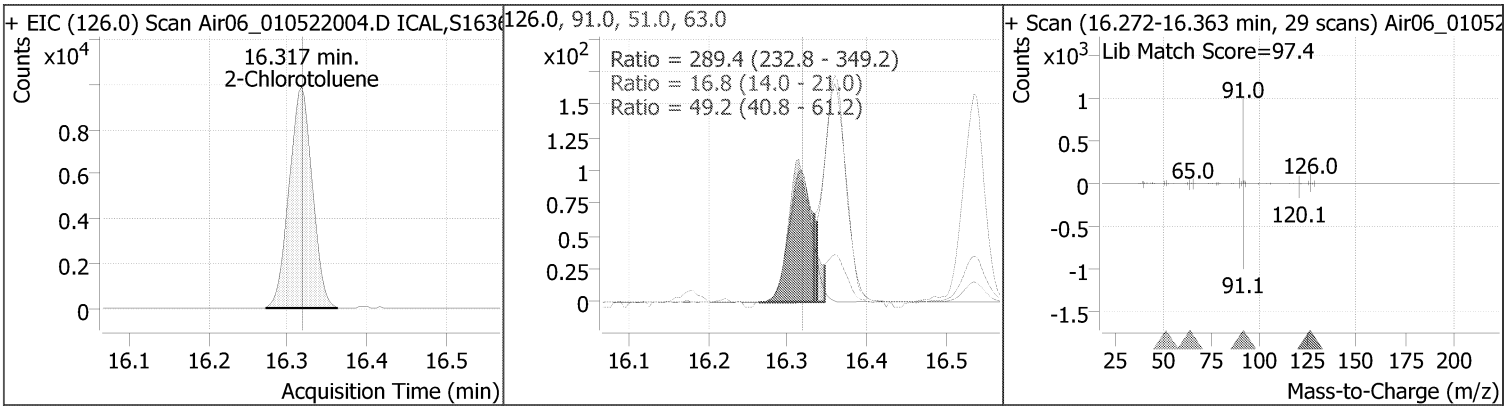

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.2210 | 15.61 | 0.00 | 1094422 | 174.0 | 87.7 | 64.2 | 119.3 |



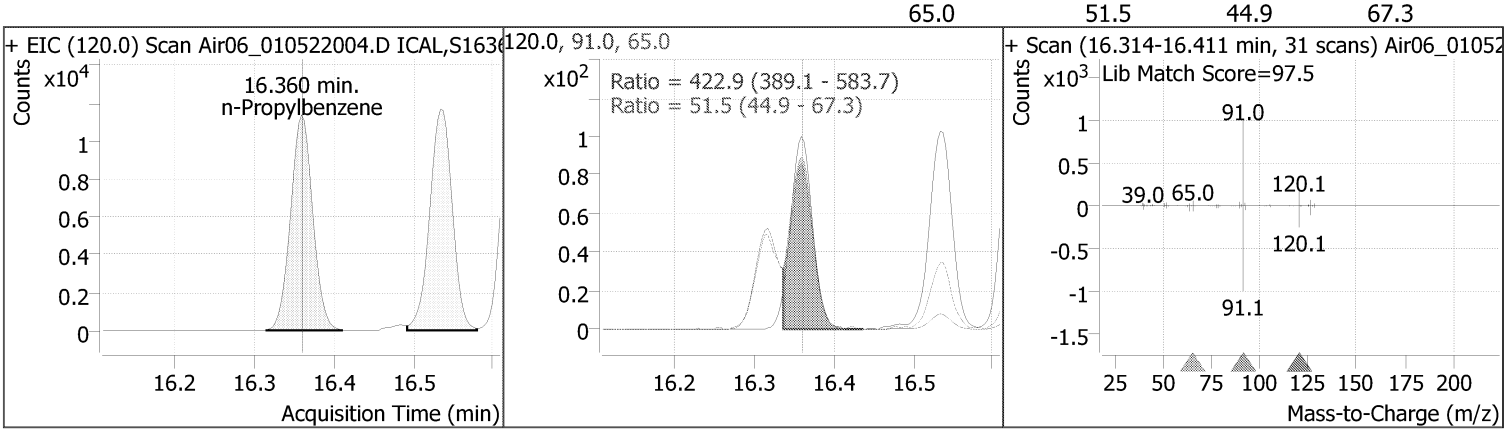

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.3122 | 15.77 | -0.01 | 78387 | 120.0 | 26.0 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.7 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.1 | 5.0 | 7.5 |



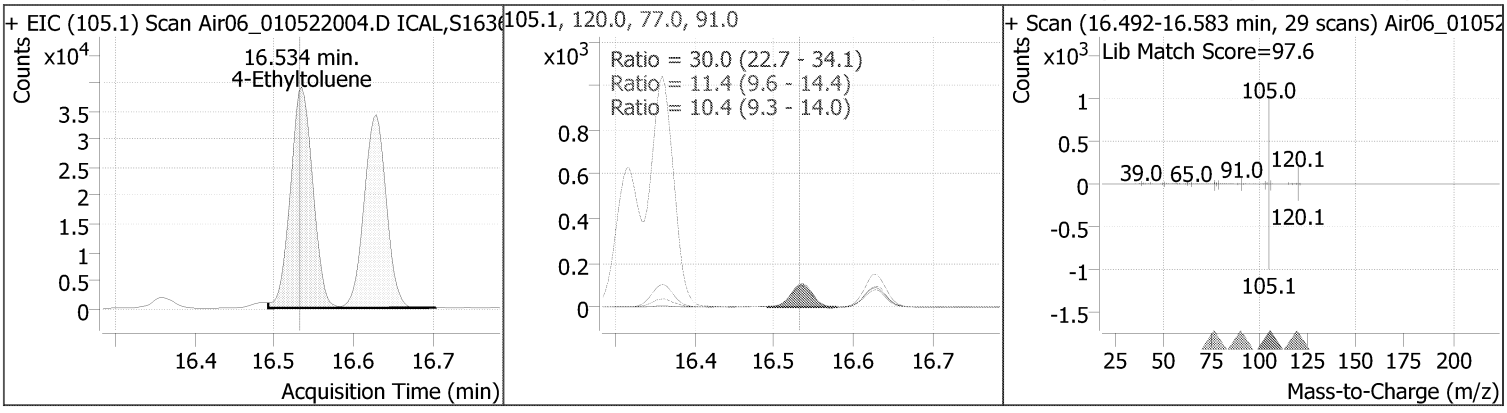
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.3134 | 16.32 | 0.00 | 20043 | 91.0 | 289.4 | 232.8 | 349.2 |
| | | | | | 63.0 | 49.2 | 40.8 | 61.2 |
| | | | | | 51.0 | 16.8 | 14.0 | 21.0 |



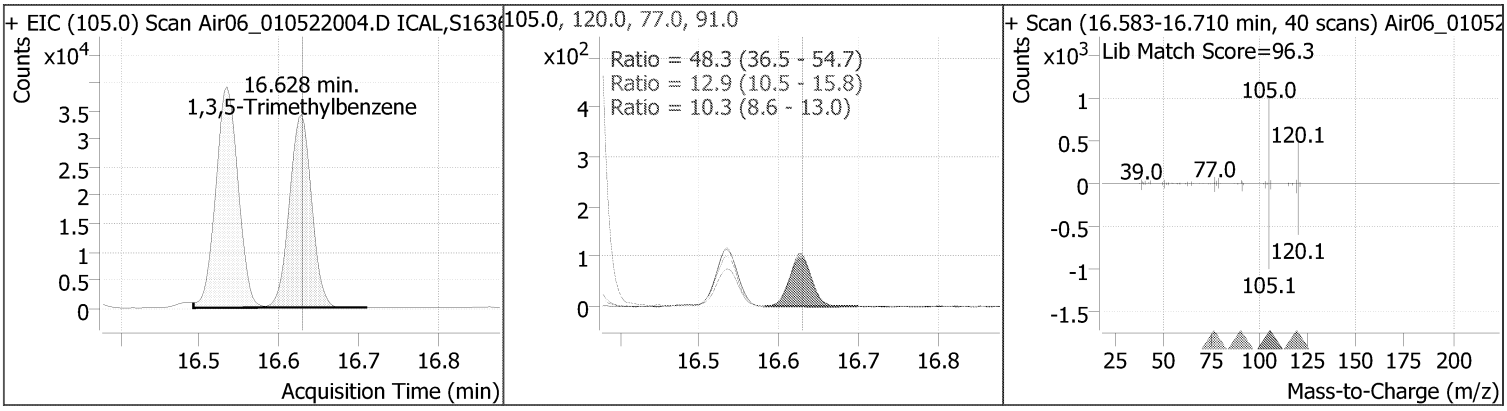

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.3145 | 16.36 | 0.00 | 22062 | 91.0 | 422.9 | 389.1 | 583.7 |
| | | | | | 65.0 | 51.5 | 44.9 | 67.3 |



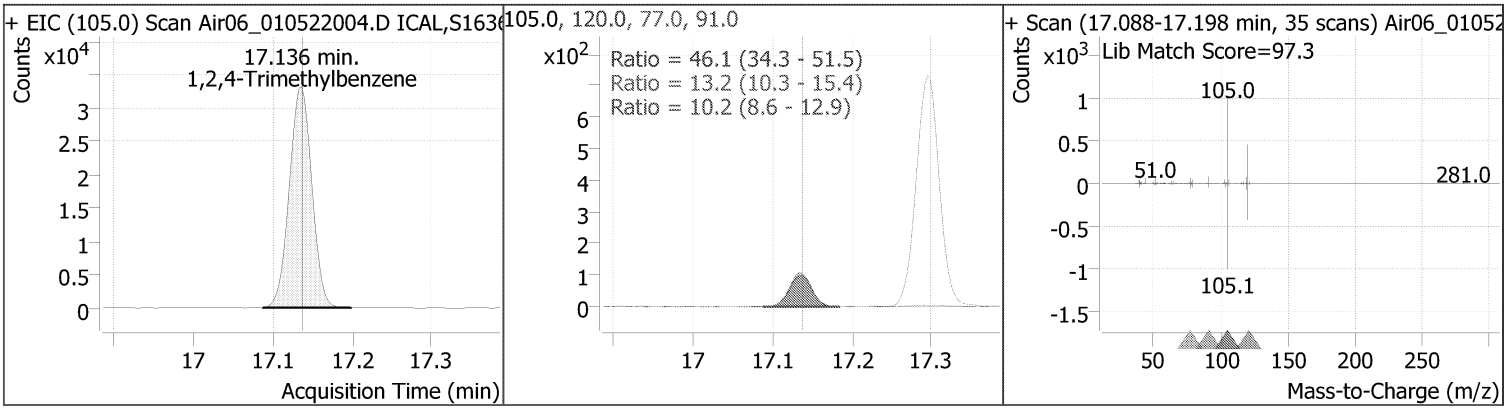

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.3088 | 16.53 | 0.00 | 76731 | 120.0 | 30.0 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.4 | 9.6 | 14.4 |
| | | | | | 91.0 | 10.4 | 9.3 | 14.0 |



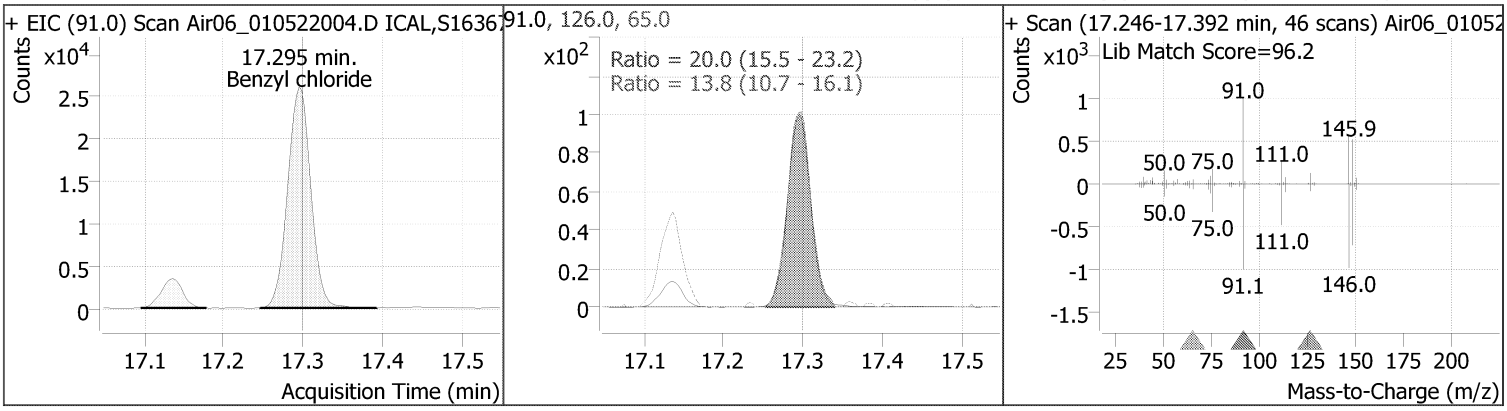
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.3082 | 16.63 | 0.00 | 66298 | 120.0 | 48.3 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.9 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.3 | 8.6 | 13.0 |



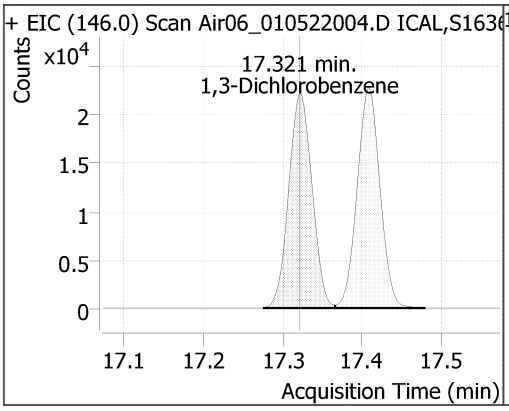

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.3049 | 17.14 | 0.00 | 65133 | 120.0 | 46.1 | 34.3 | 51.5 |
| | | | | | 77.0 | 13.2 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.2 | 8.6 | 12.9 |

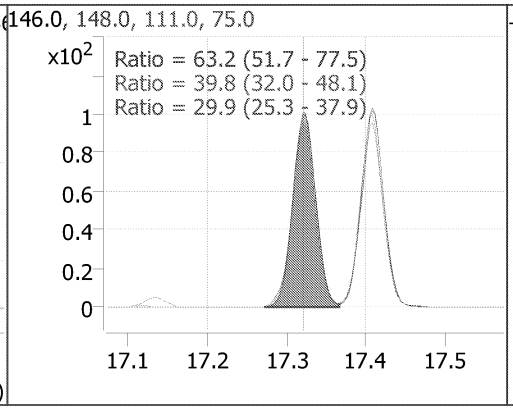


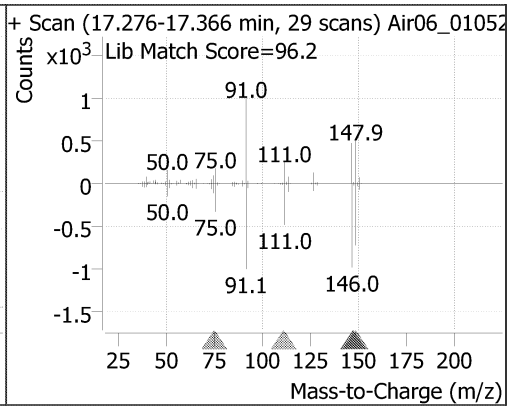

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.2809 | 17.29 | -0.01 | 52765 | 126.0 | 20.0 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.8 | 10.7 | 16.1 |



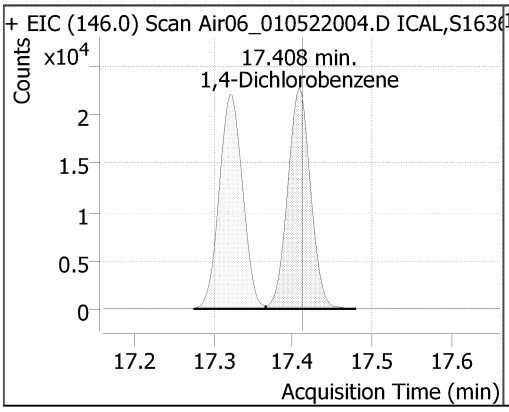
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.3100 | 17.32 | -0.01 | 45432 | 148.0 | 63.2 | 51.7 | 77.5 |
| | | | | | 111.0 | 39.8 | 32.0 | 48.1 |
| | | | | | 75.0 | 29.9 | 25.3 | 37.9 |

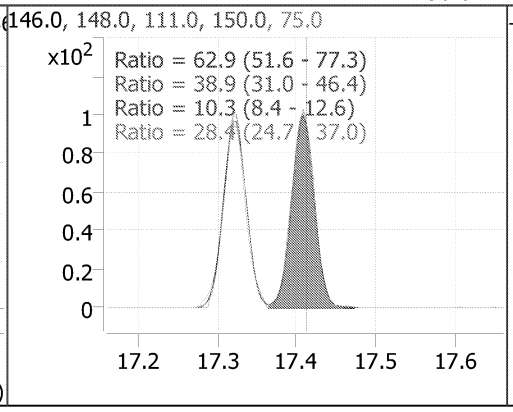


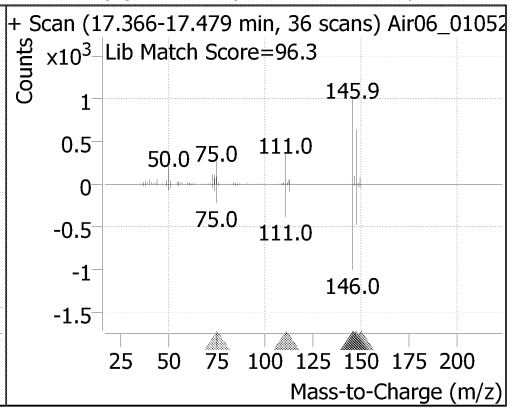



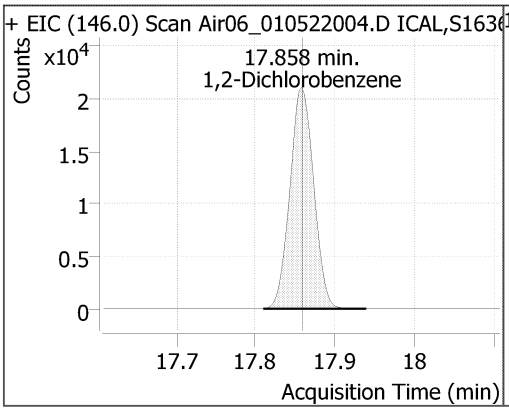

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.3088 | 17.41 | -0.01 | 45758 | 148.0 | 62.9 | 51.6 | 77.3 |
| | | | | | 111.0 | 38.9 | 31.0 | 46.4 |
| | | | | | 75.0 | 28.4 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.3 | 8.4 | 12.6 |

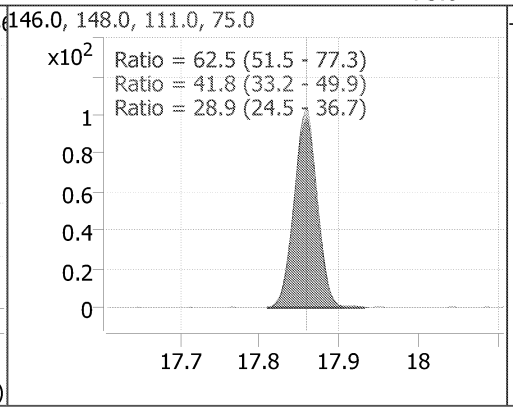


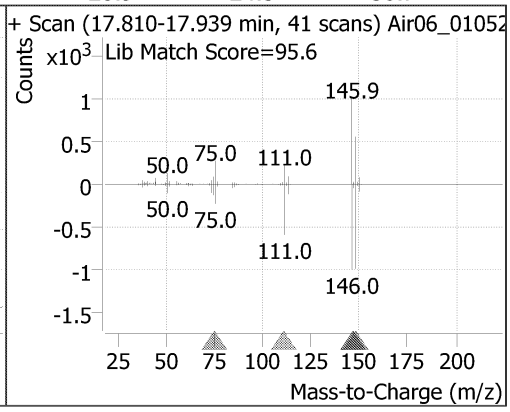



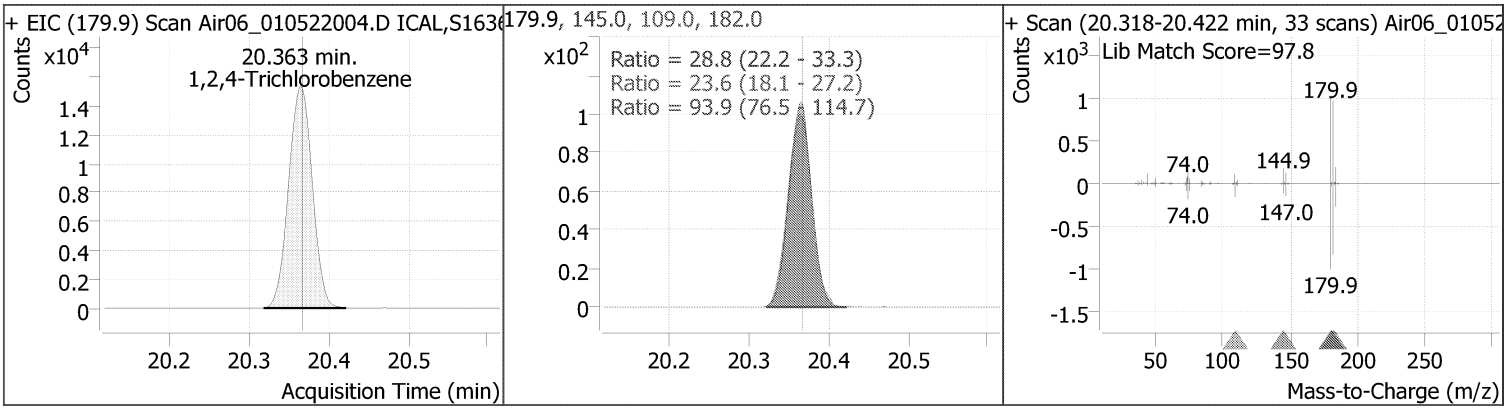

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.3078 | 17.86 | 0.00 | 43996 | 148.0 | 62.5 | 51.5 | 77.3 |
| | | | | | 111.0 | 41.8 | 33.2 | 49.9 |
| | | | | | 75.0 | 28.9 | 24.5 | 36.7 |



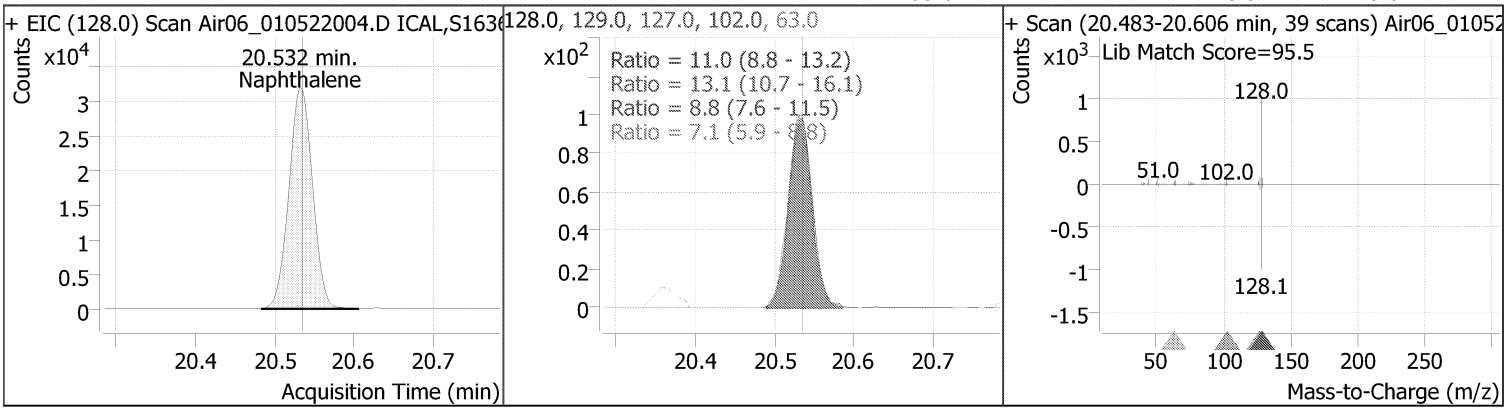



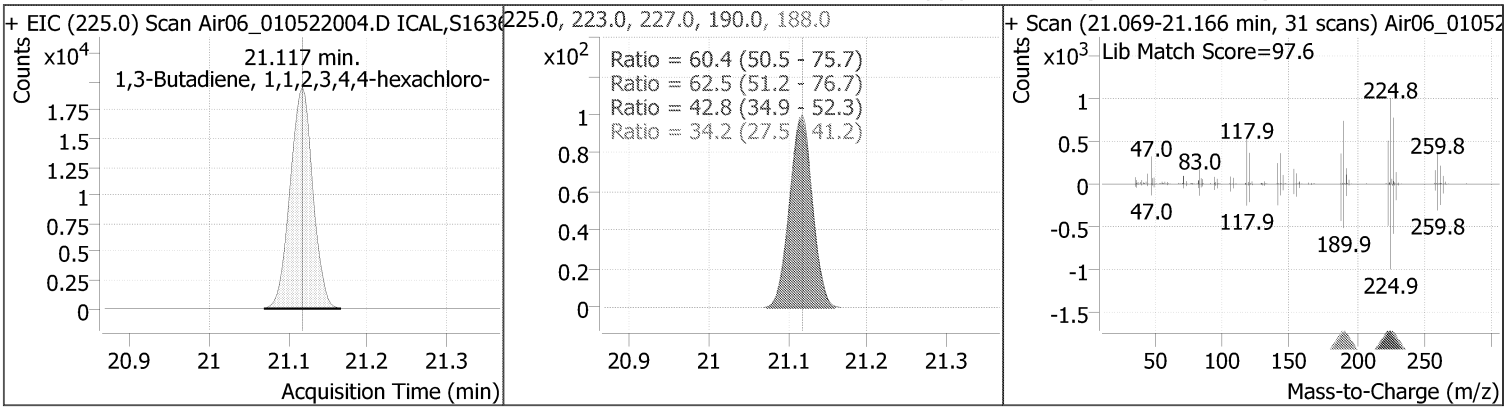
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.2714 | 20.36 | -0.01 | 31967 | 182.0 | 93.9 | 76.5 | 114.7 |
| | | | | | 145.0 | 28.8 | 22.2 | 33.3 |
| | | | | | 109.0 | 23.6 | 18.1 | 27.2 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.2730 | 20.53 | -0.01 | 66554 | 127.0 | 13.1 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.8 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.1 | 5.9 | 8.8 |

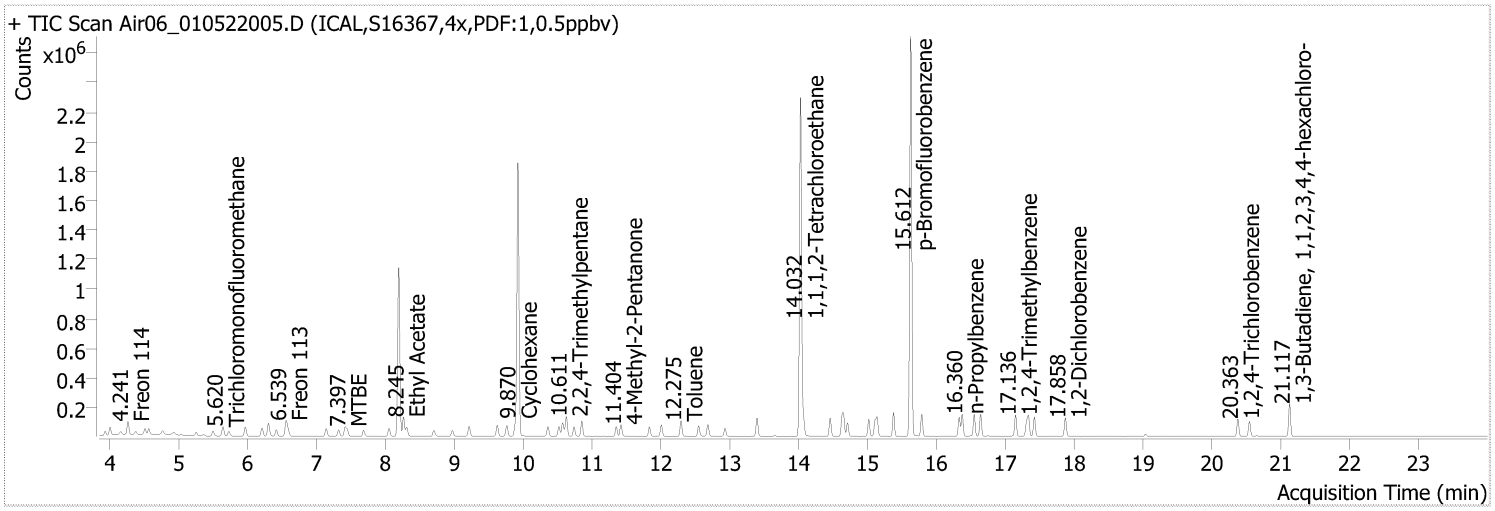



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.3072 | 21.12 | 0.00 | 38881 | 227.0 | 62.5 | 51.2 | 76.7 |
| | | | | | 223.0 | 60.4 | 50.5 | 75.7 |
| | | | | | 190.0 | 42.8 | 34.9 | 52.3 |
| | | | | | 188.0 | 34.2 | 27.5 | 41.2 |



# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522005.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 3:52:43 PM |
| Sample Name | ICAL,S16367,4x,PDF:1,0.5ppbv | Instrument | Air-MS-06 |
| Vial | 6 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 220105_ICAL.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



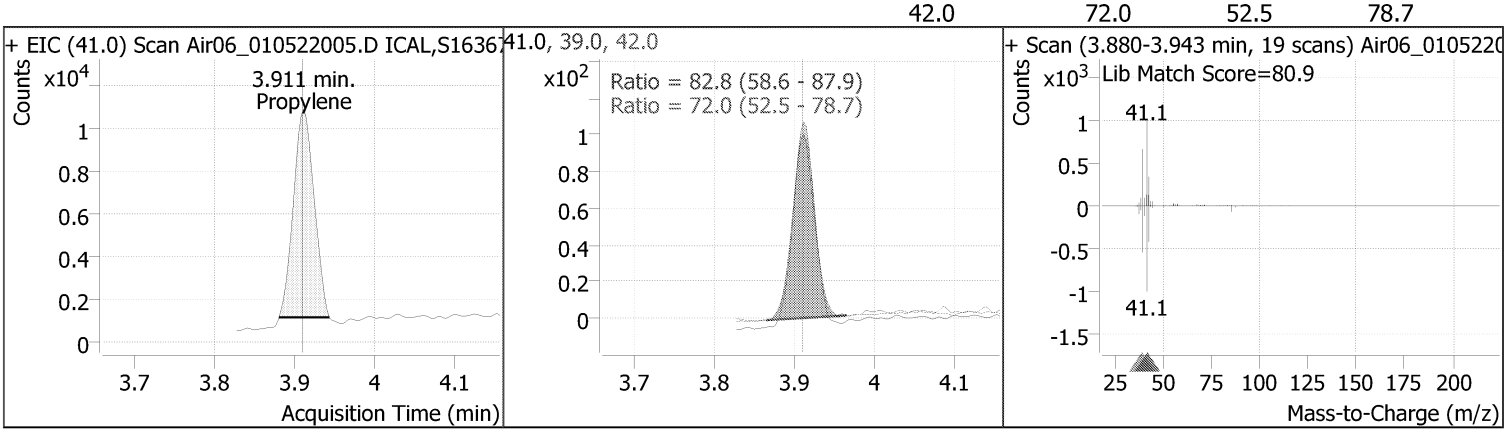

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 413146 | 10.0000 | nL/L | | 0.000 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1571237 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 822572 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1106241 | 10.2270 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 102.27% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.911 | 41.0 | 17397 | 0.4274 | nL/L | | 90 |
| T Freon 12 | 3.982 | 85.0 | 48423 | 0.4497 | nL/L | | 99 |
| T Chloromethane | 4.138 | 50.0 | 22679 | 0.4483 | nL/L | | 99 |
| T Freon 114 | 4.241 | 135.0 | 34333 | 0.4520 | nL/L | | 96 |
| T Vinyl Chloride | 4.355 | 62.0 | 22701 | 0.4486 | nL/L | | 97 |
| T 1,3-Butadiene | 4.491 | 54.0 | 19393 | 0.4475 | nL/L | | 99 |
| T Butane | 4.546 | 43.0 | 37707 | 0.4483 | nL/L | | 97 |
| T Bromomethane | 4.746 | 96.0 | 16527 | 0.4436 | nL/L | | 99 |
| T Chloroethane | 4.911 | 64.0 | 10936 | 0.4384 | nL/L | | 95 |
| T Ethanol | 5.021 | 45.0 | 12316 | 0.4943 | nL/L | | 97 |
| T Vinyl bromide | 5.235 | 108.0 | 19388 | 0.4434 | nL/L | | 99 |
| T Acrolein | 5.339 | 56.0 | 9781 | 0.4450 | nL/L | # | 94 |
| T Acetone | 5.478 | 58.0 | 13696 | 0.5275 | nL/L | | 93 |
| T Trichloromonofluoromethane | 5.620 | 101.0 | 57267 | 0.4513 | nL/L | | 100 |
| T Isopropanol (IPA) | 5.708 | 45.0 | 44721 | 0.4809 | nL/L | | 99 |
| T n-Pentane | 5.947 | 43.0 | 46338 | 0.4458 | nL/L | | 99 |
| T 1,1-Dichloroethene | 6.190 | 61.0 | 43069 | 0.4559 | nL/L | | 99 |
| T Tert-butyl alcohol (TBA) | 6.287 | 59.0 | 46314 | 0.4304 | nL/L | # | 93 |
| T Methylene Chloride | 6.280 | 84.0 | 22061 | 0.4826 | nL/L | | 97 |
| T 3-Chloropropene | 6.397 | 76.0 | 9120 | 0.4328 | nL/L | | 95 |
| T Freon 113 | 6.539 | 101.0 | 46144 | 0.4524 | nL/L | | 99 |
| T Carbon Disulfide | 6.569 | 76.0 | 59981 | 0.4540 | nL/L | | 100 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 35218 | 0.4451 | nL/L | | 98 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 43426 | 0.4470 | nL/L | | 99 |
| T MTBE | 7.397 | 73.0 | 57133 | 0.4438 | nL/L | | 97 |
| T Vinyl Acetate | 7.426 | 43.0 | 76865 | 0.4715 | nL/L | m | 99 |
| T 2-Butanone | 7.663 | 43.0 | 56997 | 0.4538 | nL/L | | 97 |
| T cis-1,2-Dichloroethene | 8.035 | 61.0 | 36139 | 0.4516 | nL/L | | 98 |
| T Ethyl Acetate | 8.245 | 61.0 | 8838 | 0.4482 | nL/L | | 92 |
| T n-Hexane | 8.245 | 57.0 | 40960 | 0.4523 | nL/L | | 99 |
| T Chloroform | 8.290 | 83.0 | 46324 | 0.4536 | nL/L | | 98 |
| T Tetrahydrofuran | 8.685 | 72.0 | 10337 | 0.4589 | nL/L | | 92 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 33525 | 0.4484 | nL/L | | 99 |
| T 1,1,1-Trichloroethane | 9.197 | 97.0 | 43813 | 0.4436 | nL/L | | 96 |
| T Benzene | 9.608 | 78.0 | 66863 | 0.4542 | nL/L | | 99 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 47107 | 0.4470 | nL/L | | 99 |
| T Cyclohexane | 9.870 | 84.0 | 28185 | 0.4583 | nL/L | # | 80 |
| T 1,2-Dichloropropane | 10.343 | 63.0 | 27821 | 0.4323 | nL/L | | 97 |
| T Methane, bromodichloro- | 10.501 | 83.0 | 46061 | 0.4386 | nL/L | | 99 |
| T 1,4-Dioxane | 10.576 | 88.0 | 14755 | 0.4393 | nL/L | # | 1 |
| T Trichloroethene | 10.556 | 132.0 | 29507 | 0.4507 | nL/L | | 96 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 133474 | 0.4557 | nL/L | | 98 |
| T Methyl methacrylate | 10.721 | 69.0 | 24091 | 0.4410 | nL/L | | 100 |
| T n-Heptane | 10.834 | 71.0 | 22241 | 0.4396 | nL/L | | 98 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 8955 | 0.4383 | nL/L | # | 79 |
| T 4-Methyl-2-Pentanone | 11.404 | 58.0 | 25228 | 0.4469 | nL/L | | 97 |
| T trans-1,3-Dichloropropene | 11.815 | 110.0 | 8948 | 0.4272 | nL/L | | 93 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 26738 | 0.4363 | nL/L | | 99 |
| T Toluene | 12.275 | 91.0 | 83230 | 0.4469 | nL/L | | 97 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 12977116 | 0.9794 | nL/L | | 100 |
| T 2-Hexanone | 12.531 | 58.0 | 31348 | 0.4324 | nL/L | | 99 |
| T Dibromochloromethane | 12.666 | 129.0 | 48503 | 0.4359 | nL/L | | 99 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 41506 | 0.4402 | nL/L | | 99 |
| T Tetrachloroethene | 13.379 | 166.0 | 42902 | 0.4456 | nL/L | | 97 |
| T 1,1,1,2-Tetrachloroethane | 14.032 | 131.0 | 31812 | 0.4482 | nL/L | # | 86 |
| T Benzene, chloro- | 14.055 | 112.0 | 63881 | 0.4535 | nL/L | | 98 |
| T Ethylbenzene | 14.443 | 91.0 | 102247 | 0.4569 | nL/L | | 98 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 9121158 | 0.9425 | nL/L | | 100 |
| T m,p-Xylenes | 14.628 | 91.0 | 166177 | 0.9233 | nL/L | | 96 |
| T Bromoform | 14.696 | 173.0 | 54140 | 0.4392 | nL/L | | 99 |
| T Styrene | 15.003 | 104.0 | 64291 | 0.4508 | nL/L | | 97 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 60969 | 0.4483 | nL/L | | 99 |
| T o-Xylene | 15.123 | 91.0 | 84694 | 0.4577 | nL/L | | 98 |
| T n-Nonane | 15.363 | 85.0 | 19871 | 0.4648 | nL/L | | 98 |
| T Isopropylbenzene | 15.770 | 105.0 | 116888 | 0.4608 | nL/L | | 99 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 29388 | 0.4549 | nL/L | | 93 |
| T n-Propylbenzene | 16.360 | 120.0 | 32179 | 0.4540 | nL/L | | 89 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 112269 | 0.4473 | nL/L | | 96 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 100723 | 0.4635 | nL/L | | 98 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 96943 | 0.4492 | nL/L | | 96 |
| T Benzyl chloride | 17.295 | 91.0 | 77163 | 0.4066 | nL/L | | 97 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 66276 | 0.4477 | nL/L | | 99 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 66405 | 0.4436 | nL/L | | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 63814 | 0.4420 | nL/L | | 100 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 46909 | 0.3943 | nL/L | | 100 |
| T Naphthalene | 20.532 | 128.0 | 98237 | 0.3989 | nL/L | | 99 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.117 | 225.0 | 57161 | 0.4471 | nL/L | | 99 |

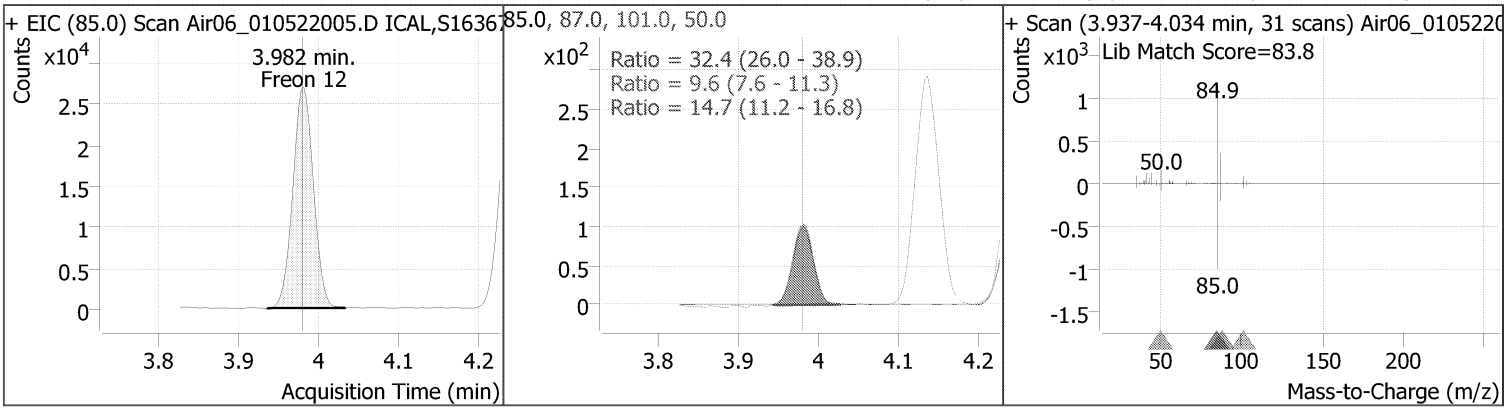
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

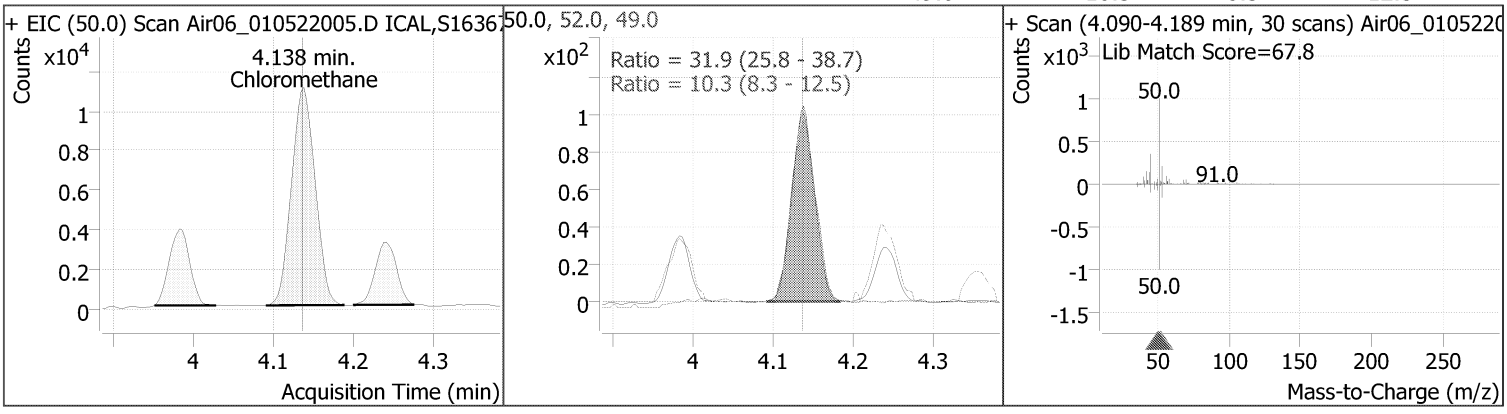
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.4274 | 3.91 | 0.00 | 17397 | 39.0 | 82.8 | 58.6 | 87.9 |
| | | | | | 42.0 | 72.0 | 52.5 | 78.7 |



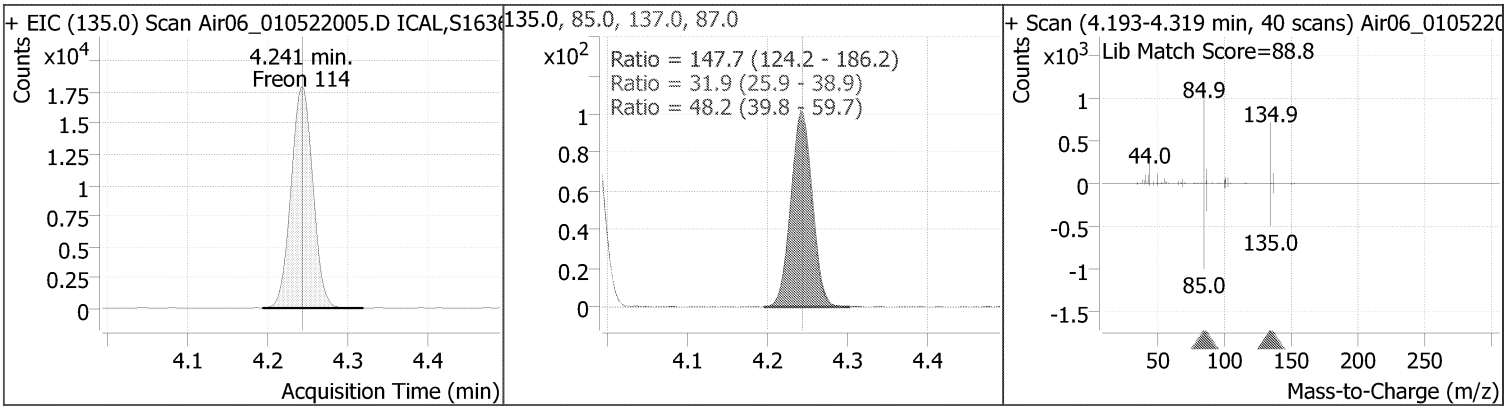

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.4497 | 3.98 | 0.00 | 48423 | 87.0 | 32.4 | 26.0 | 38.9 |
| | | | | | 50.0 | 14.7 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.6 | 7.6 | 11.3 |



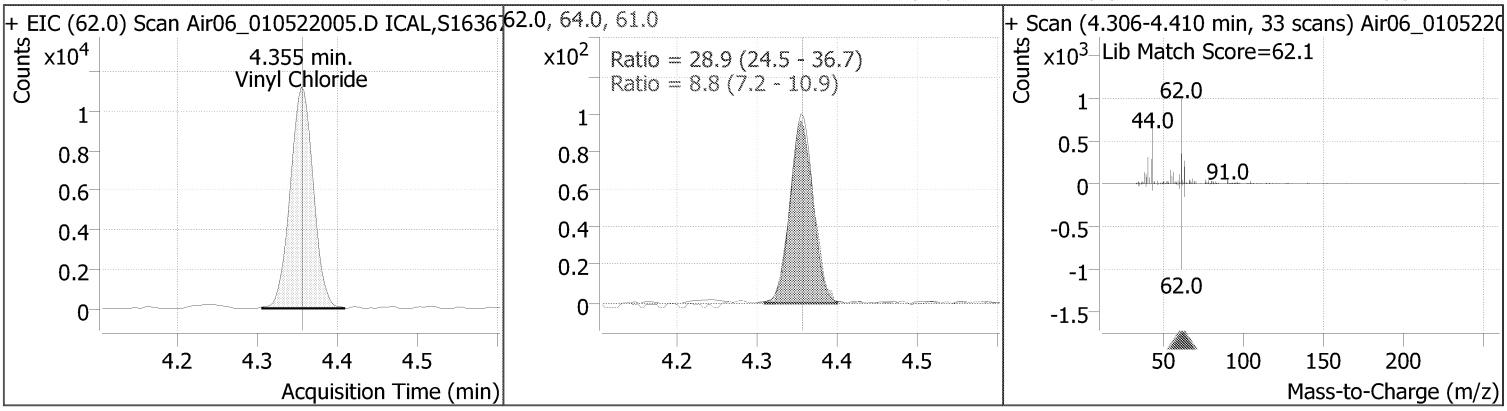

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.4483 | 4.14 | 0.00 | 22679 | 52.0 | 31.9 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.3 | 8.3 | 12.5 |



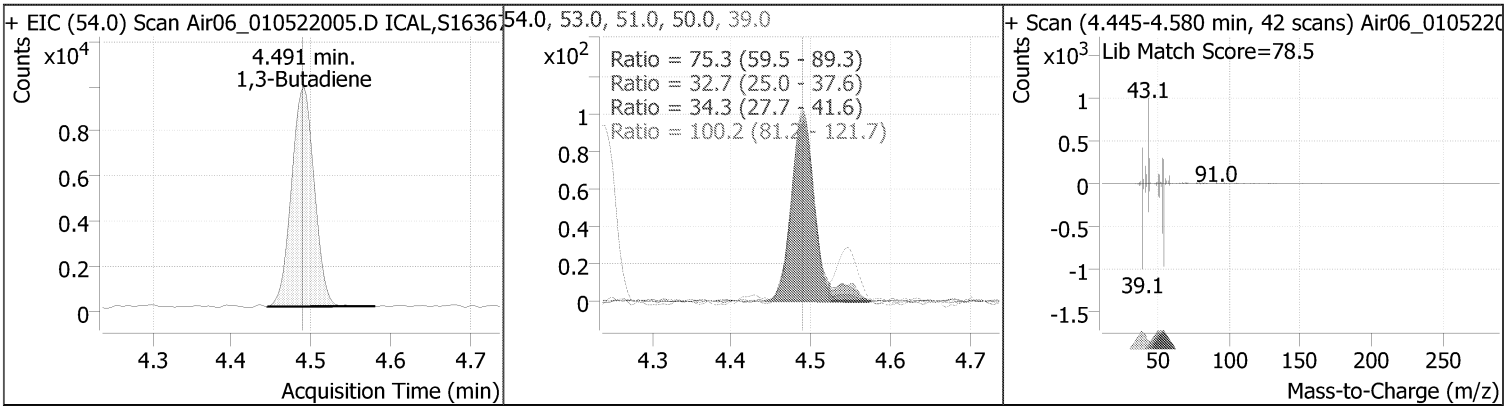
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.4520 | 4.24 | 0.00 | 34333 | 85.0 | 147.7 | 124.2 | 186.2 |
| | | | | | 87.0 | 48.2 | 39.8 | 59.7 |
| | | | | | 137.0 | 31.9 | 25.9 | 38.9 |



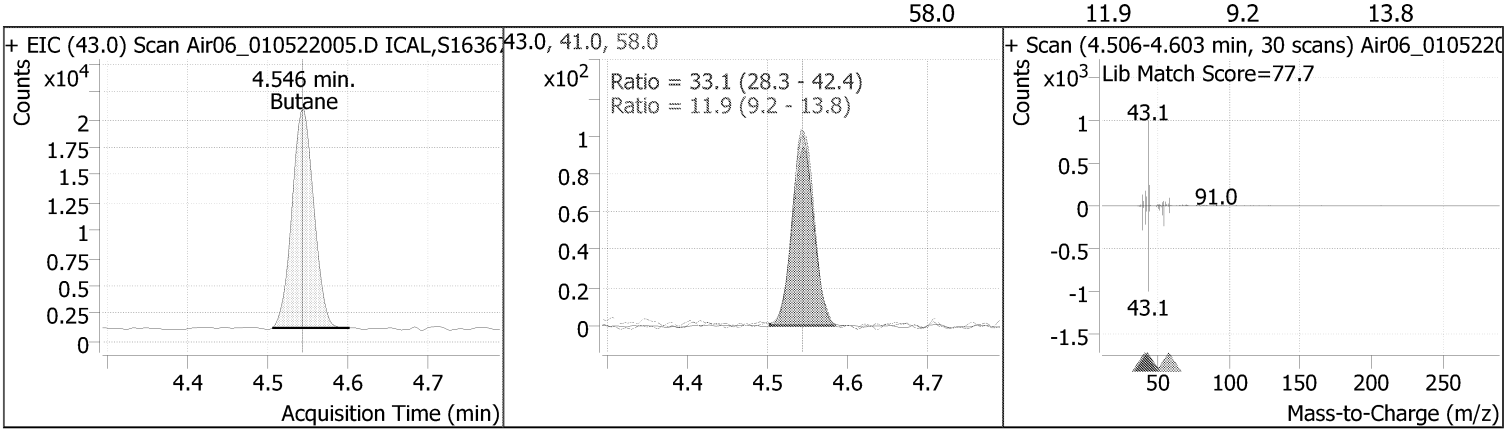

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.4486 | 4.35 | 0.00 | 22701 | 64.0 | 28.9 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.8 | 7.2 | 10.9 |



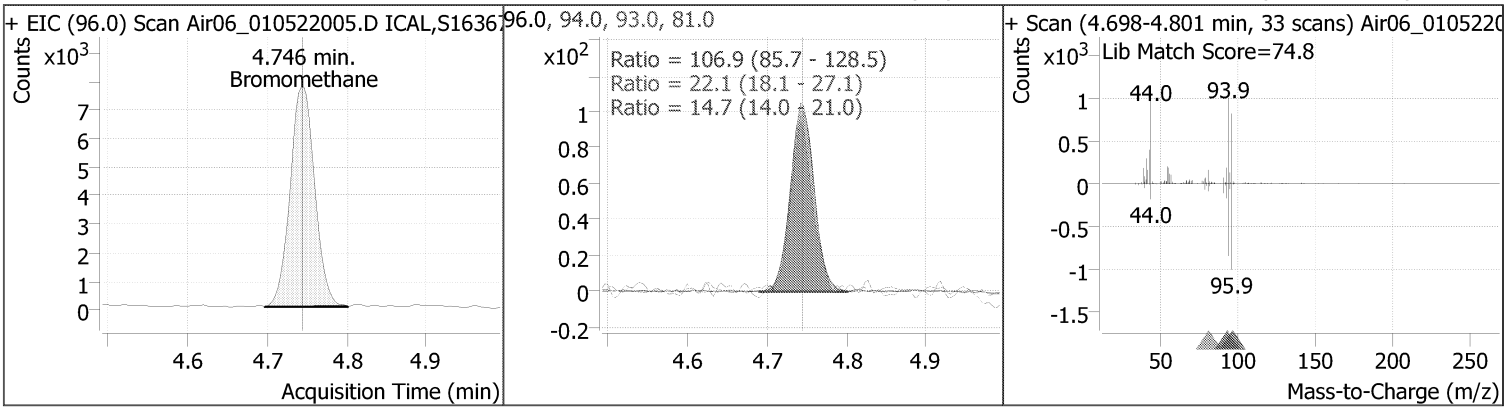

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.4475 | 4.49 | 0.00 | 19393 | 39.0 | 100.2 | 81.2 | 121.7 |
| | | | | | 53.0 | 75.3 | 59.5 | 89.3 |
| | | | | | 50.0 | 34.3 | 27.7 | 41.6 |
| | | | | | 51.0 | 32.7 | 25.0 | 37.6 |



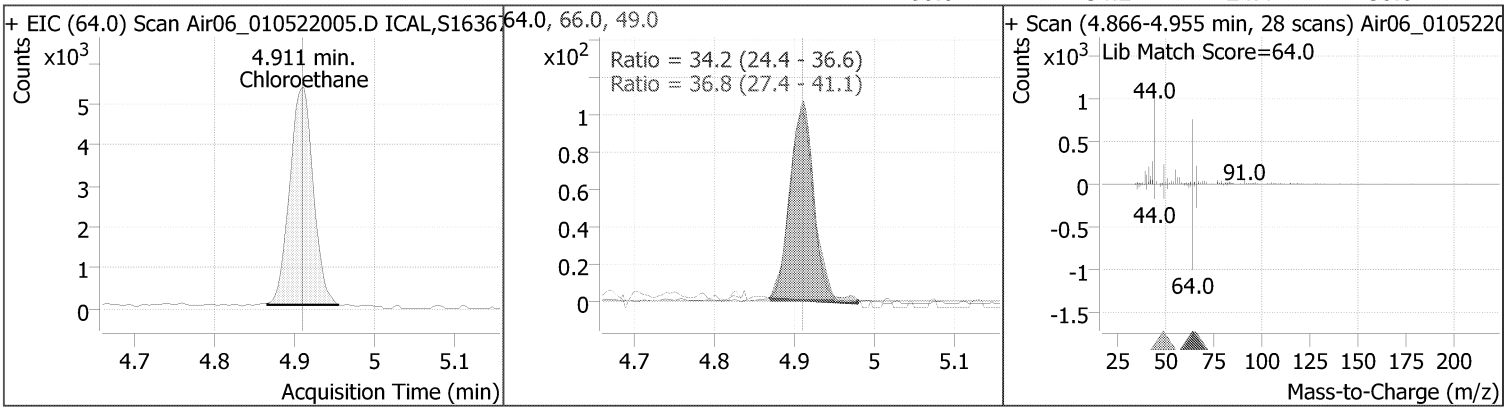
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.4483 | 4.55 | 0.00 | 37707 | 41.0 | 33.1 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.9 | 9.2 | 13.8 |



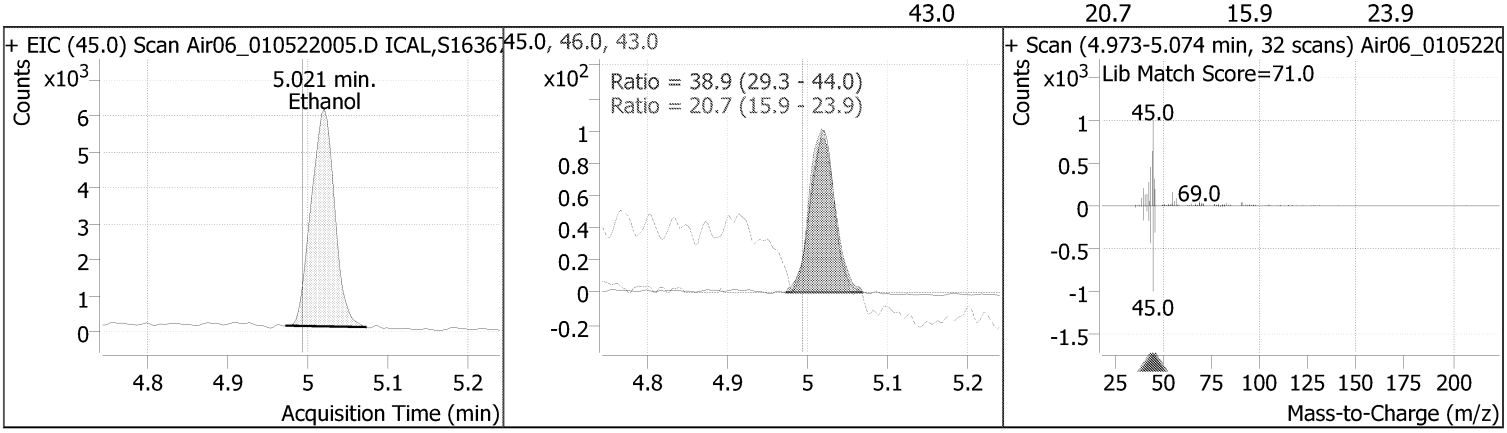

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 0.4436 | 4.75 | 0.00 | 16527 | 94.0 | 106.9 | 85.7 | 128.5 |
| | | | | | 93.0 | 22.1 | 18.1 | 27.1 |
| | | | | | 81.0 | 14.7 | 14.0 | 21.0 |



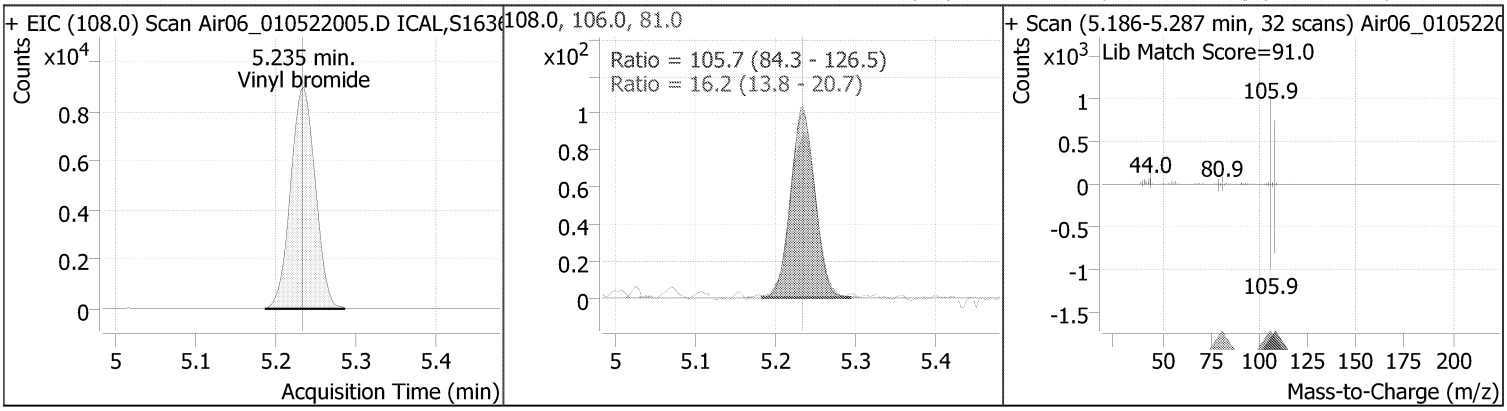

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.4384 | 4.91 | 0.00 | 10936 | 49.0 | 36.8 | 27.4 | 41.1 |
| | | | | | 66.0 | 34.2 | 24.4 | 36.6 |



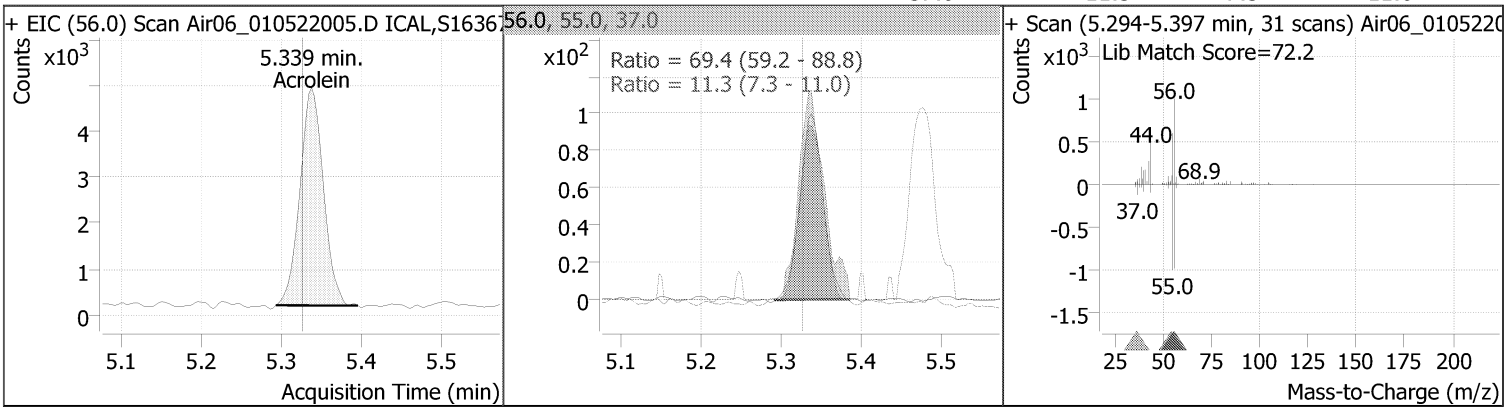
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.4943 | 5.02 | 0.03 | 12316 | 46.0 | 38.9 | 29.3 | 44.0 |
| | | | | | 43.0 | 20.7 | 15.9 | 23.9 |



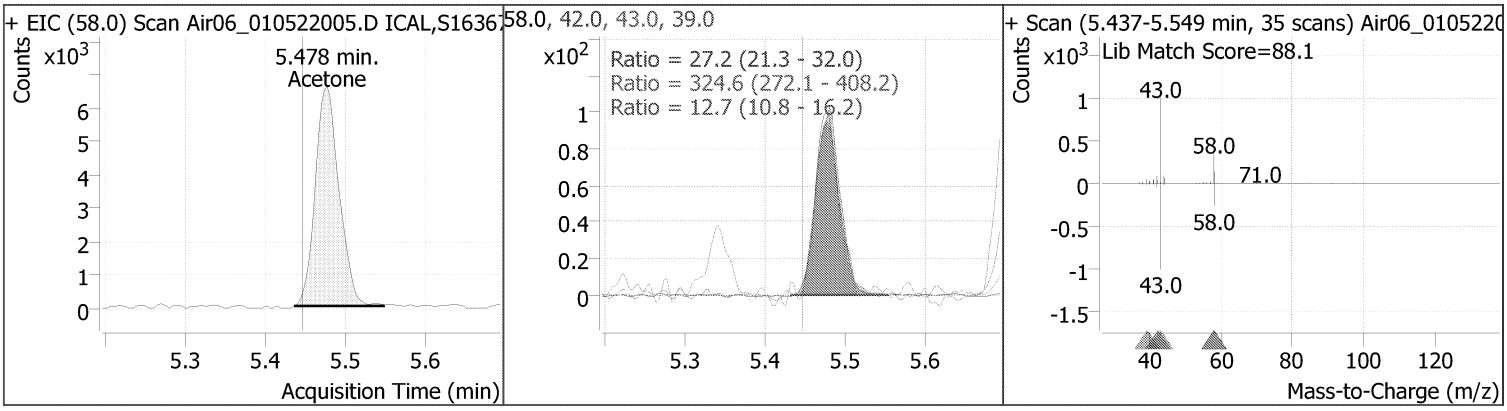

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 0.4434 | 5.24 | 0.00 | 19388 | 106.0 | 105.7 | 84.3 | 126.5 |
| | | | | | 81.0 | 16.2 | 13.8 | 20.7 |



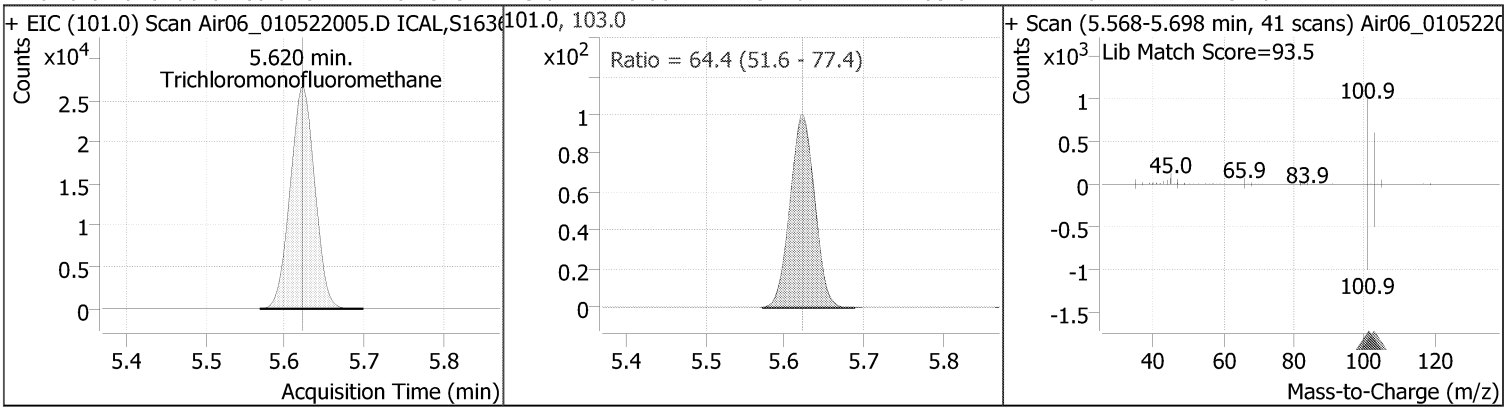

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.4450 | 5.34 | 0.01 | 9781 | 55.0 | 69.4 | 59.2 | 88.8 |
| | | | | | 37.0 | 11.3 | 7.3 | 11.0 |



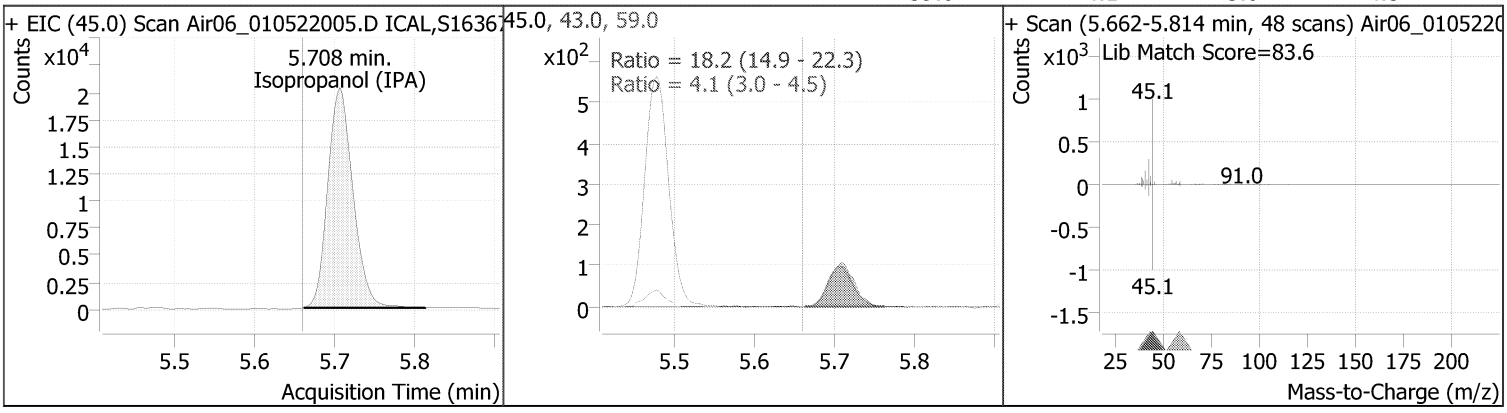
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.5275 | 5.48 | 0.03 | 13696 | 43.0 | 324.6 | 272.1 | 408.2 |
| | | | | | 42.0 | 27.2 | 21.3 | 32.0 |
| | | | | | 39.0 | 12.7 | 10.8 | 16.2 |



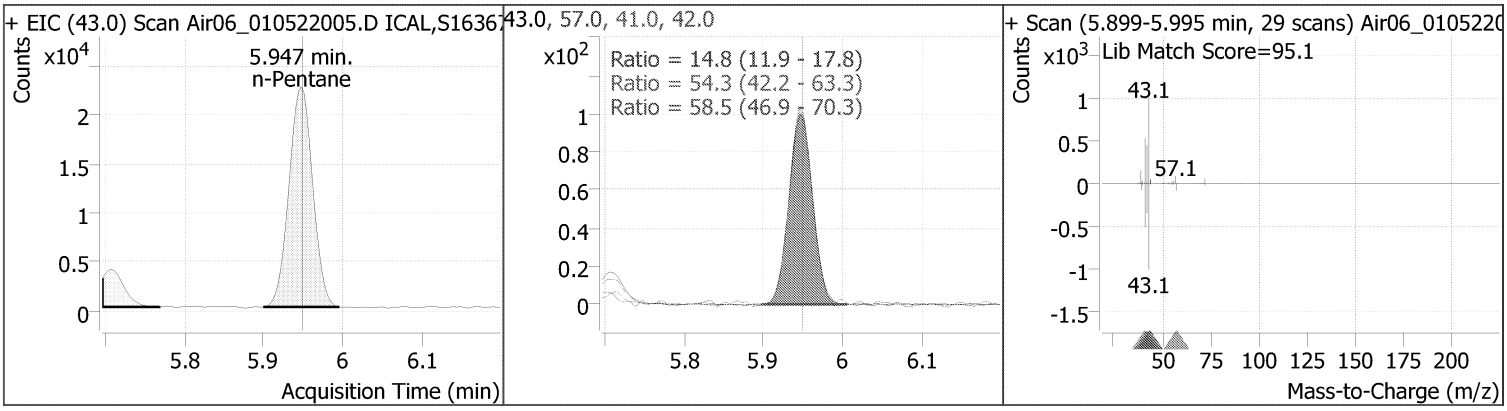

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 0.4513 | 5.62 | 0.00 | 57267 | 103.0 | 64.4 | 51.6 | 77.4 |



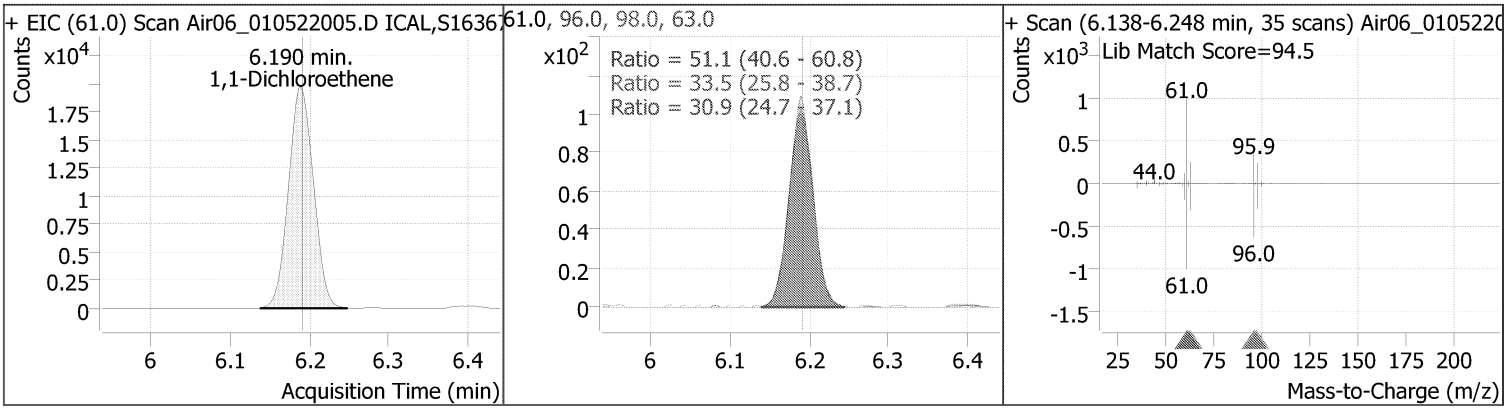

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.4809 | 5.71 | 0.05 | 44721 | 43.0 | 18.2 | 14.9 | 22.3 |
| | | | | | 59.0 | 4.1 | 3.0 | 4.5 |



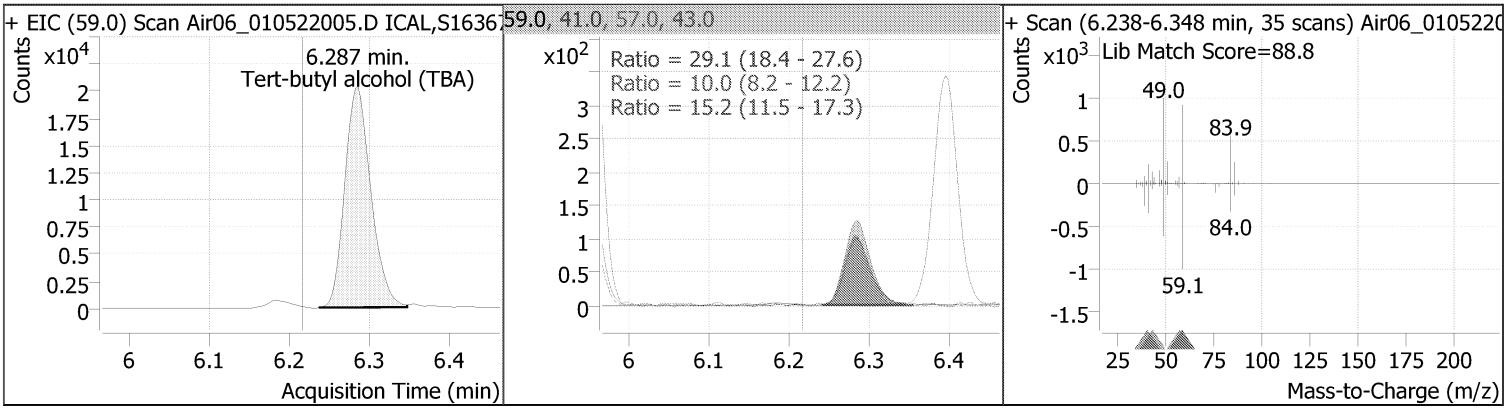
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.4458 | 5.95 | 0.00 | 46338 | 42.0 | 58.5 | 46.9 | 70.3 |
| | | | | | 41.0 | 54.3 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.8 | 11.9 | 17.8 |



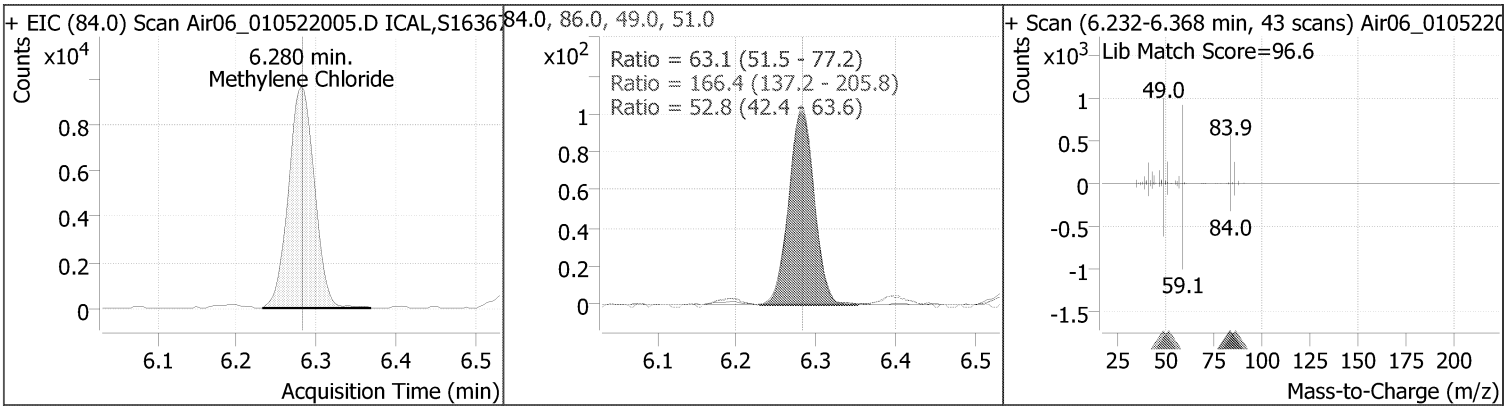

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.4559 | 6.19 | 0.00 | 43069 | 96.0 | 51.1 | 40.6 | 60.8 |
| | | | | | 98.0 | 33.5 | 25.8 | 38.7 |
| | | | | | 63.0 | 30.9 | 24.7 | 37.1 |



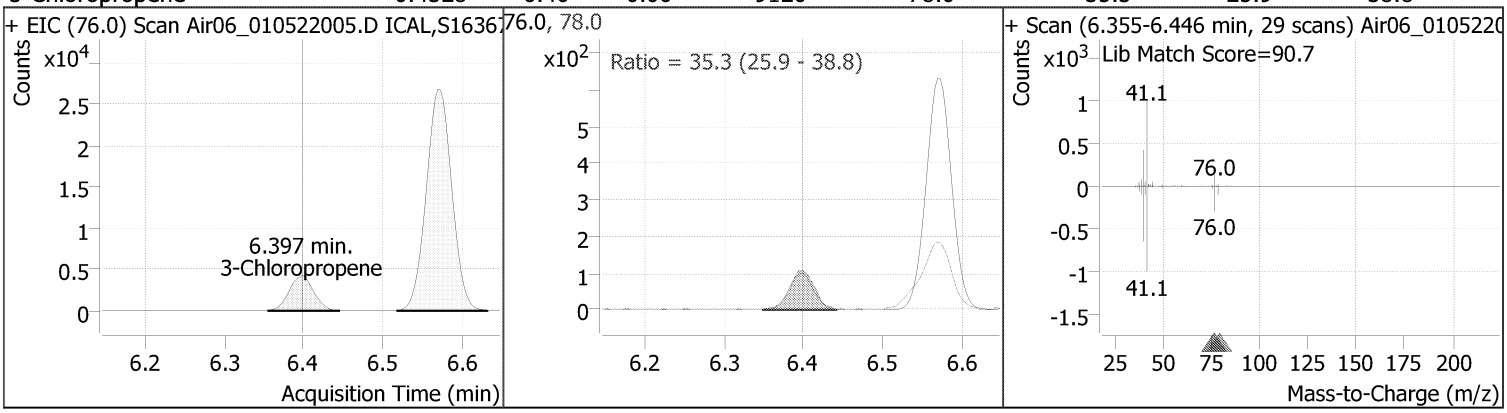

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.4304 | 6.29 | 0.07 | 46314 | 41.0 | 29.1 | 18.4 | 27.6 |
| | | | | | 43.0 | 15.2 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.0 | 8.2 | 12.2 |



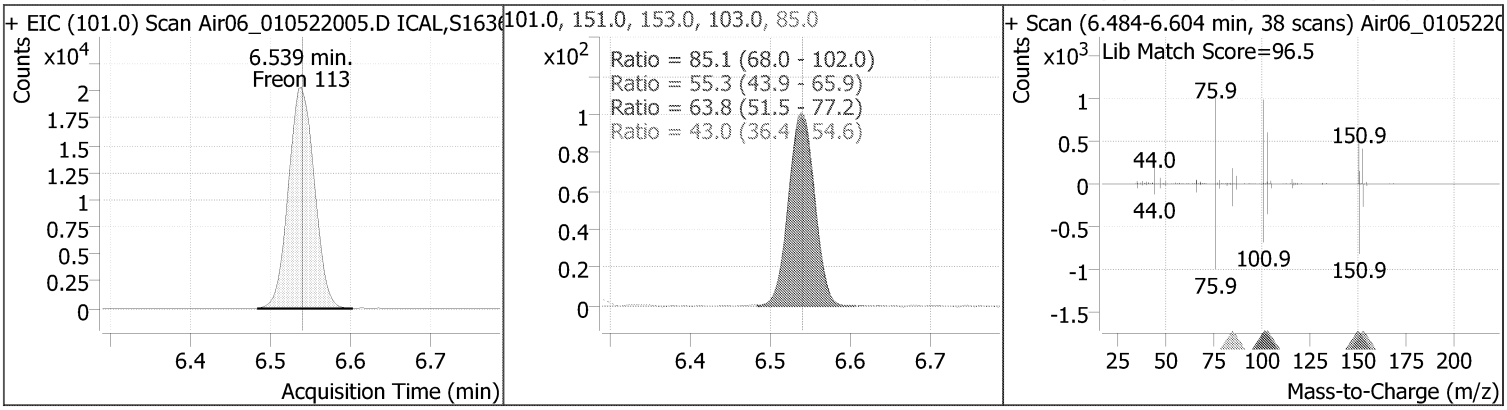
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.4826 | 6.28 | 0.00 | 22061 | 49.0 | 166.4 | 137.2 | 205.8 |
| | | | | | 86.0 | 63.1 | 51.5 | 77.2 |
| | | | | | 51.0 | 52.8 | 42.4 | 63.6 |



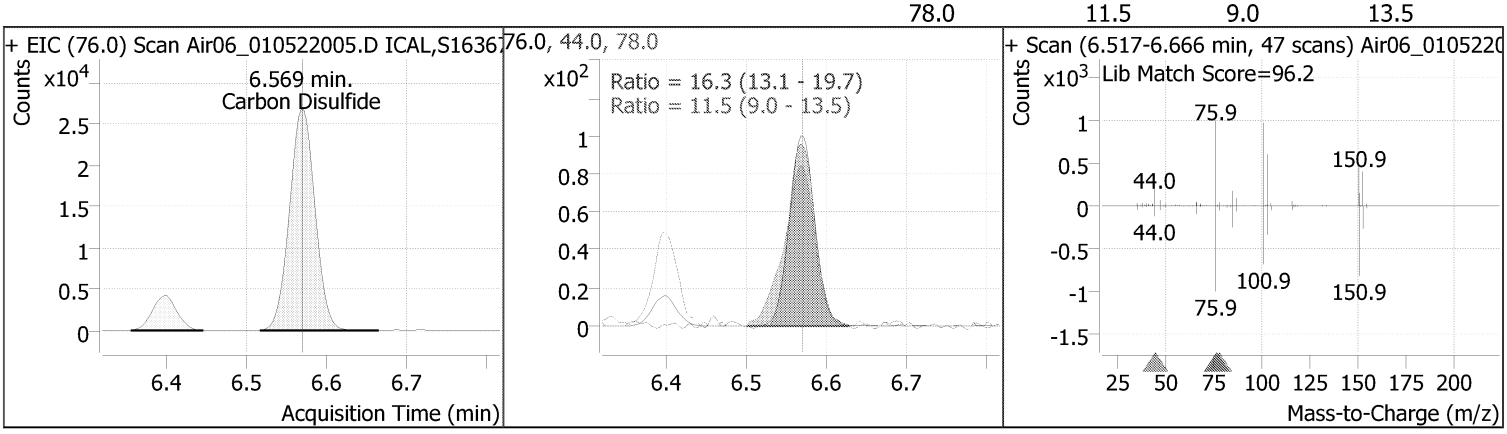

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 0.4328 | 6.40 | 0.00 | 9120 | 78.0 | 35.3 | 25.9 | 38.8 |



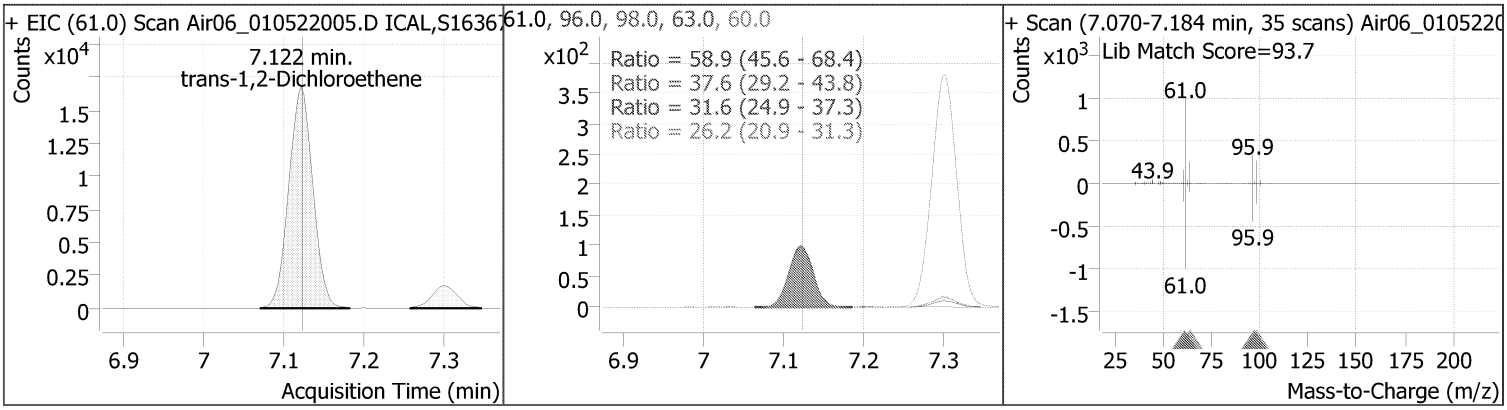

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.4524 | 6.54 | 0.00 | 46144 | 151.0 | 85.1 | 68.0 | 102.0 |
| | | | | | 103.0 | 63.8 | 51.5 | 77.2 |
| | | | | | 153.0 | 55.3 | 43.9 | 65.9 |
| | | | | | 85.0 | 43.0 | 36.4 | 54.6 |



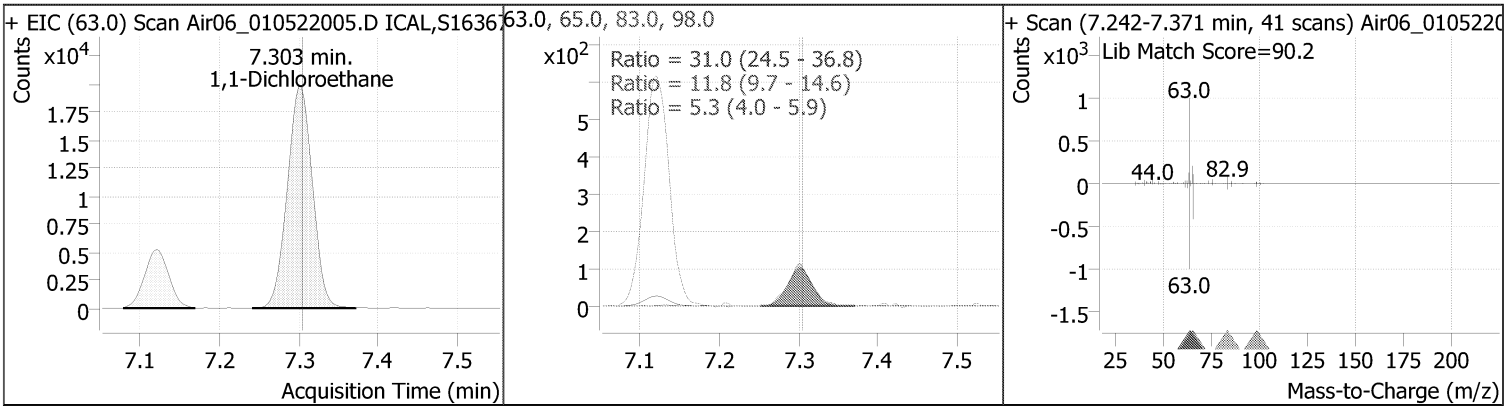
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.4540 | 6.57 | 0.00 | 59981 | 44.0 | 16.3 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.5 | 9.0 | 13.5 |



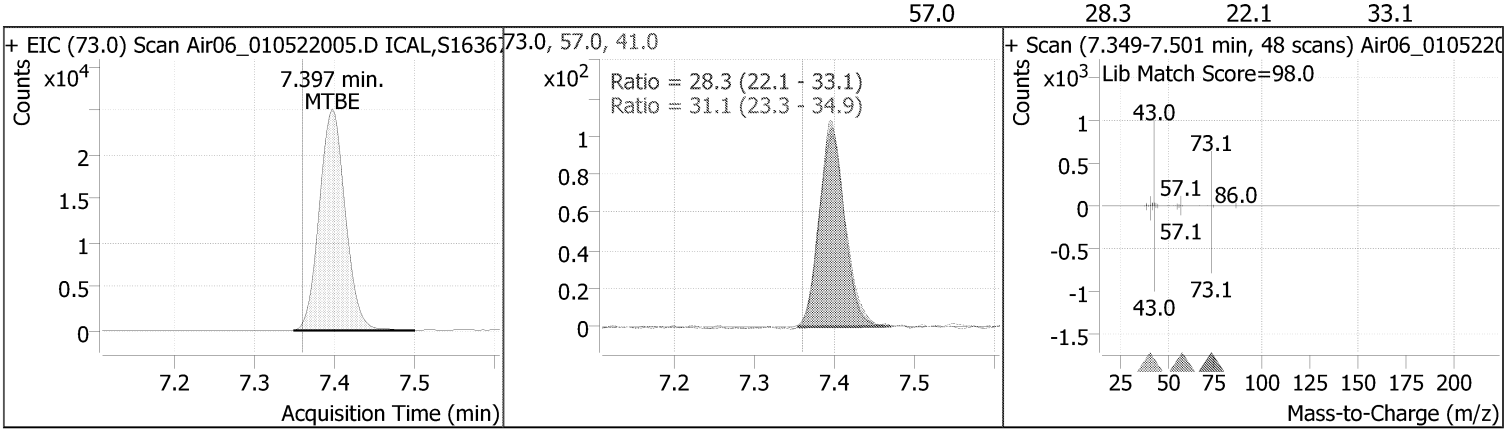

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.4451 | 7.12 | 0.00 | 35218 | 96.0 | 58.9 | 45.6 | 68.4 |
| | | | | | 98.0 | 37.6 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.6 | 24.9 | 37.3 |
| | | | | | 60.0 | 26.2 | 20.9 | 31.3 |



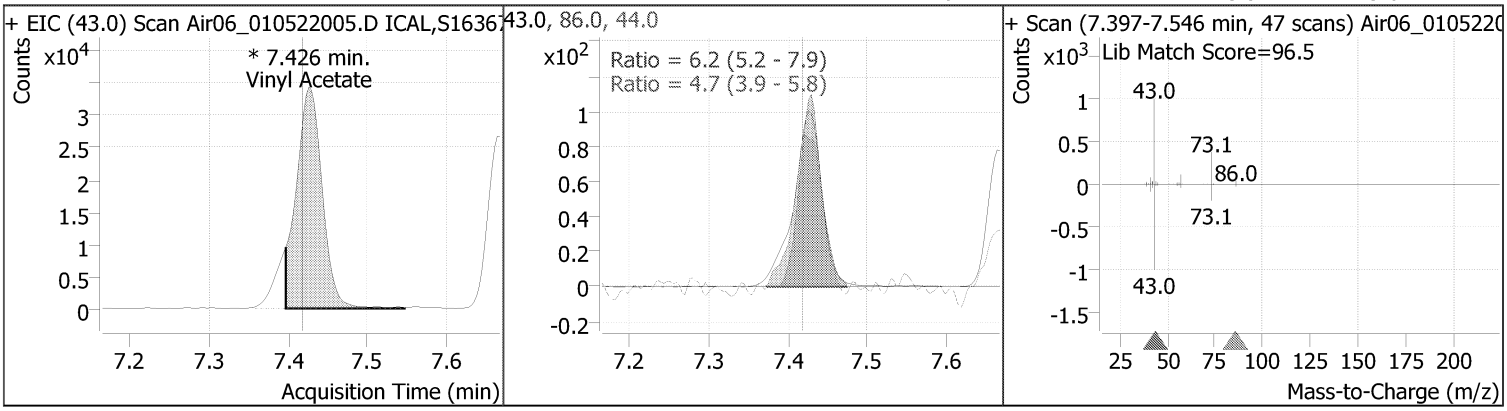

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.4470 | 7.30 | 0.00 | 43426 | 65.0 | 31.0 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.8 | 9.7 | 14.6 |
| | | | | | 98.0 | 5.3 | 4.0 | 5.9 |



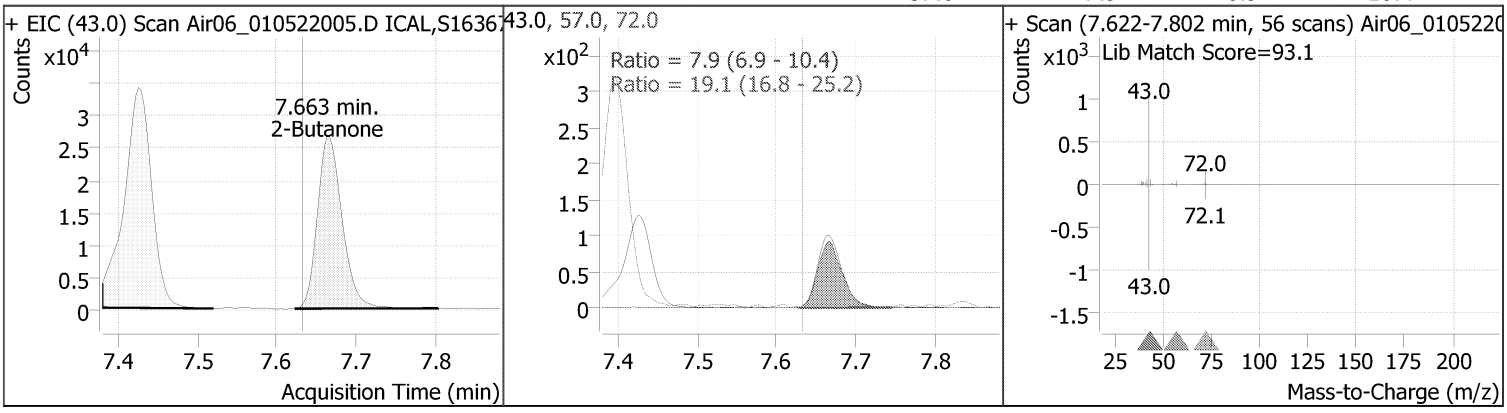
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.4438 | 7.40 | 0.04 | 57133 | 41.0 | 31.1 | 23.3 | 34.9 |
| | | | | | 57.0 | 28.3 | 22.1 | 33.1 |



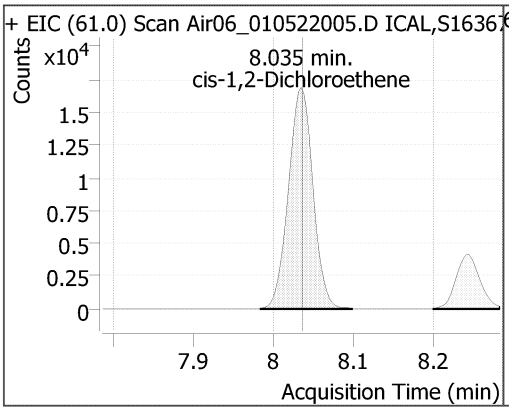

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.4715 | 7.43 | 0.01 | 76865 (m) | 86.0 | 6.2 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.7 | 3.9 | 5.8 |

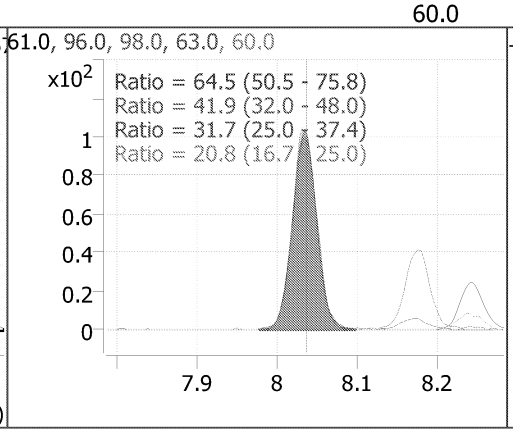


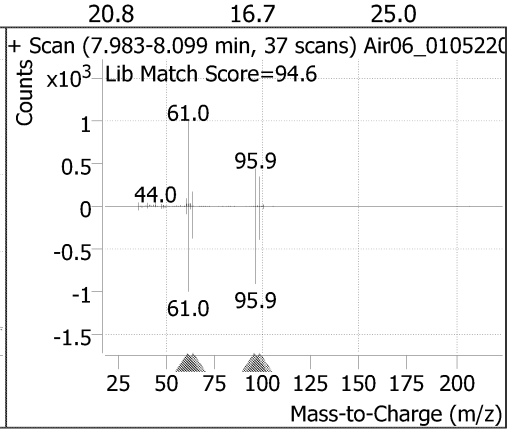

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.4538 | 7.66 | 0.03 | 56997 | 72.0 | 19.1 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.9 | 6.9 | 10.4 |



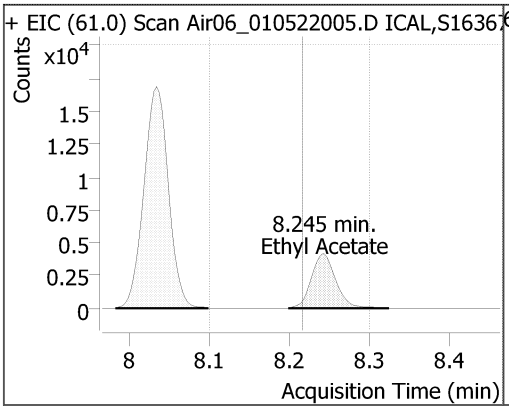
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.4516 | 8.03 | 0.00 | 36139 | 96.0 | 64.5 | 50.5 | 75.8 |
| | | | | | 98.0 | 41.9 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.7 | 25.0 | 37.4 |
| | | | | | 60.0 | 20.8 | 16.7 | 25.0 |

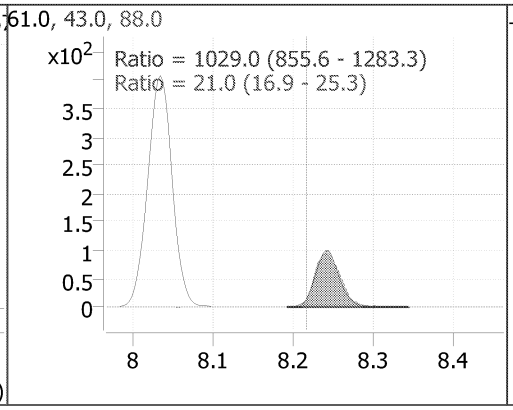


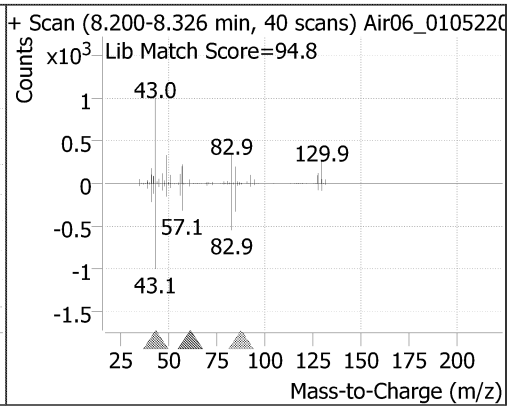



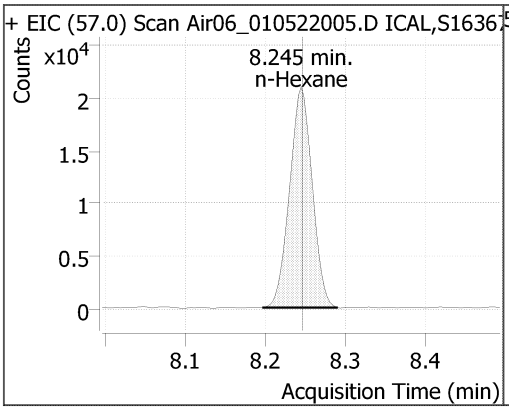

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.4482 | 8.25 | 0.03 | 8838 | 43.0 | 1029.0 | 855.6 | 1283.3 |
| | | | | | 88.0 | 21.0 | 16.9 | 25.3 |

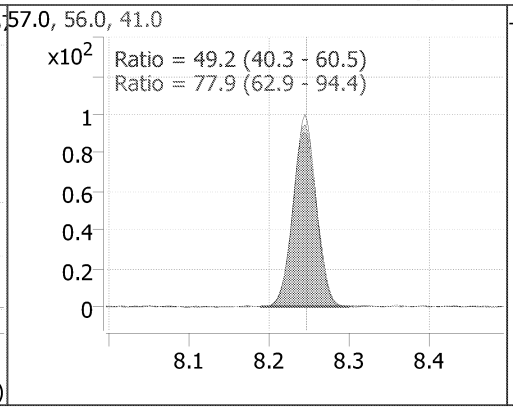


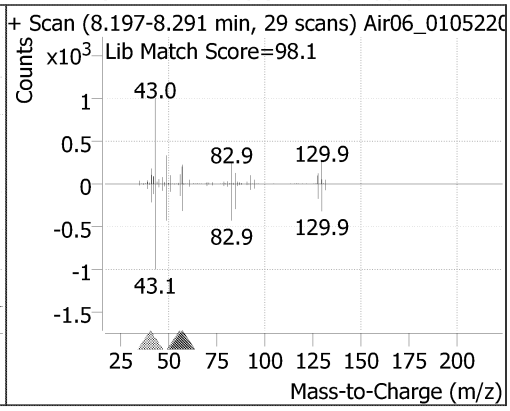



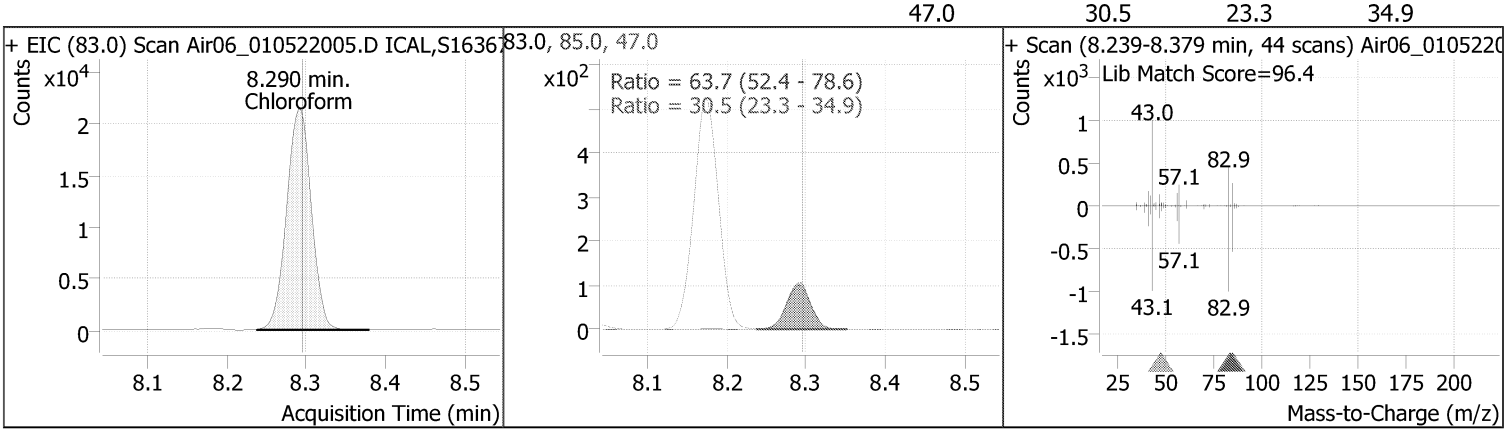

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.4523 | 8.25 | 0.00 | 40960 | 41.0 | 77.9 | 62.9 | 94.4 |
| | | | | | 56.0 | 49.2 | 40.3 | 60.5 |



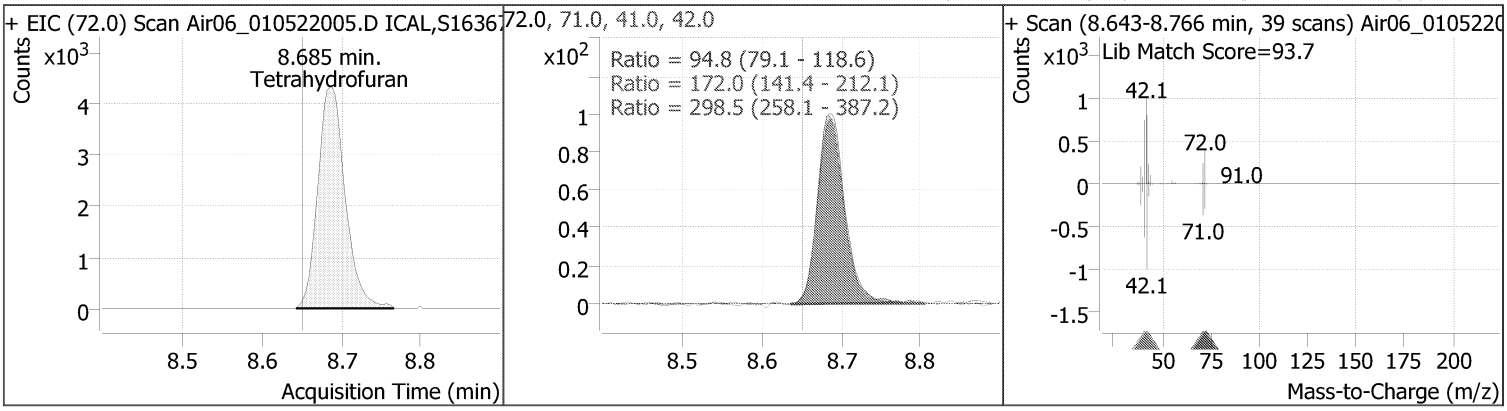



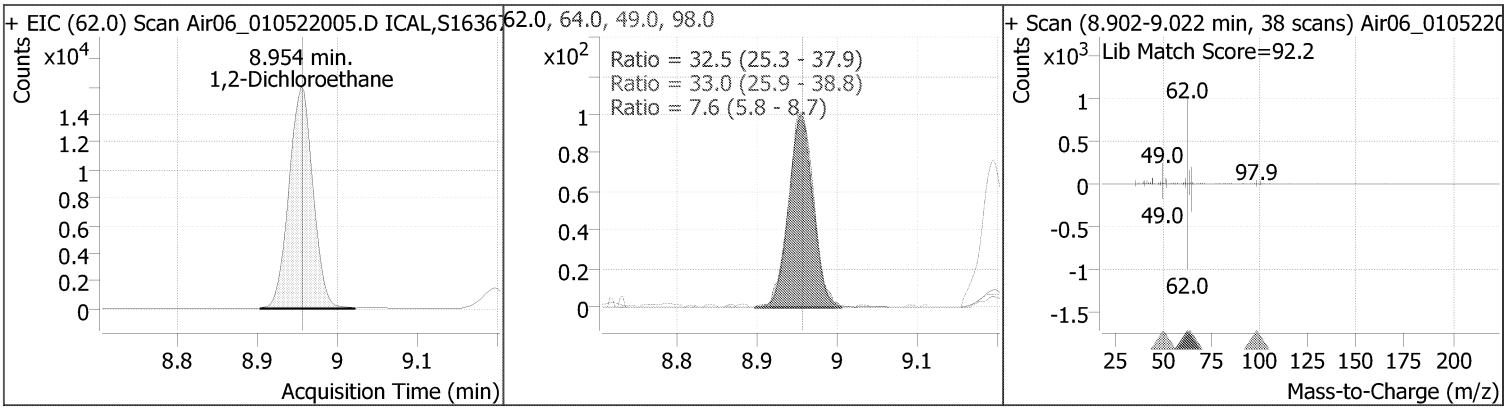
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.4536 | 8.29 | 0.00 | 46324 | 85.0 | 63.7 | 52.4 | 78.6 |
| | | | | | 47.0 | 30.5 | 23.3 | 34.9 |



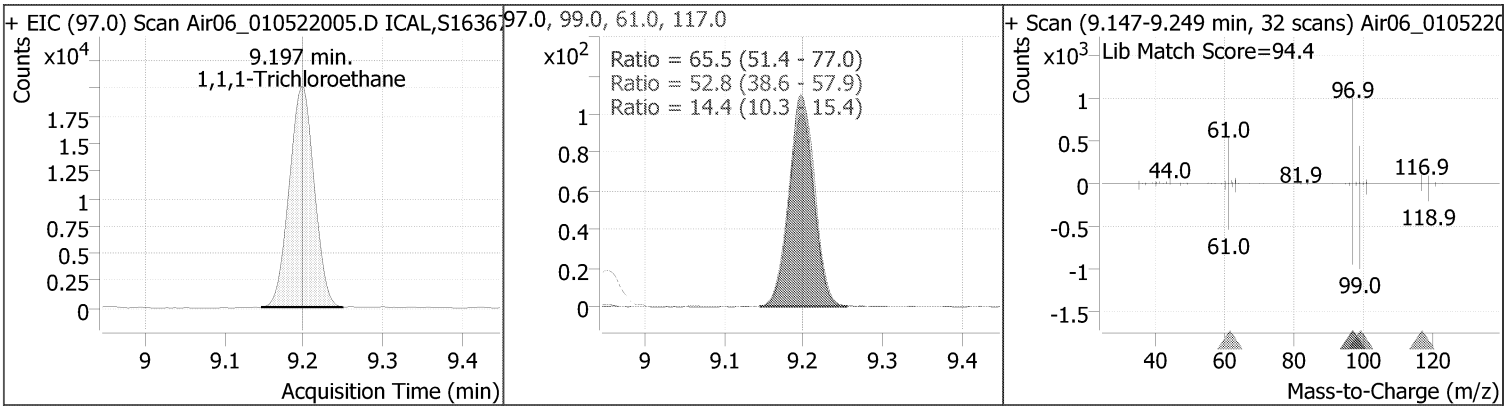

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.4589 | 8.69 | 0.04 | 10337 | 42.0 | 298.5 | 258.1 | 387.2 |
| | | | | | 41.0 | 172.0 | 141.4 | 212.1 |
| | | | | | 71.0 | 94.8 | 79.1 | 118.6 |



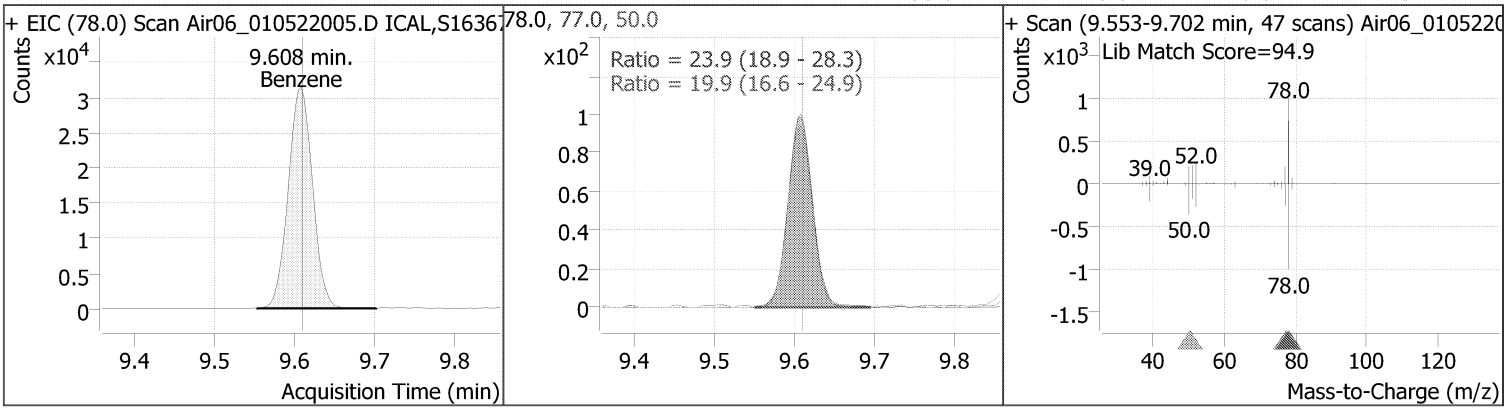

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.4484 | 8.95 | 0.00 | 33525 | 49.0 | 33.0 | 25.9 | 38.8 |
| | | | | | 64.0 | 32.5 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.6 | 5.8 | 8.7 |



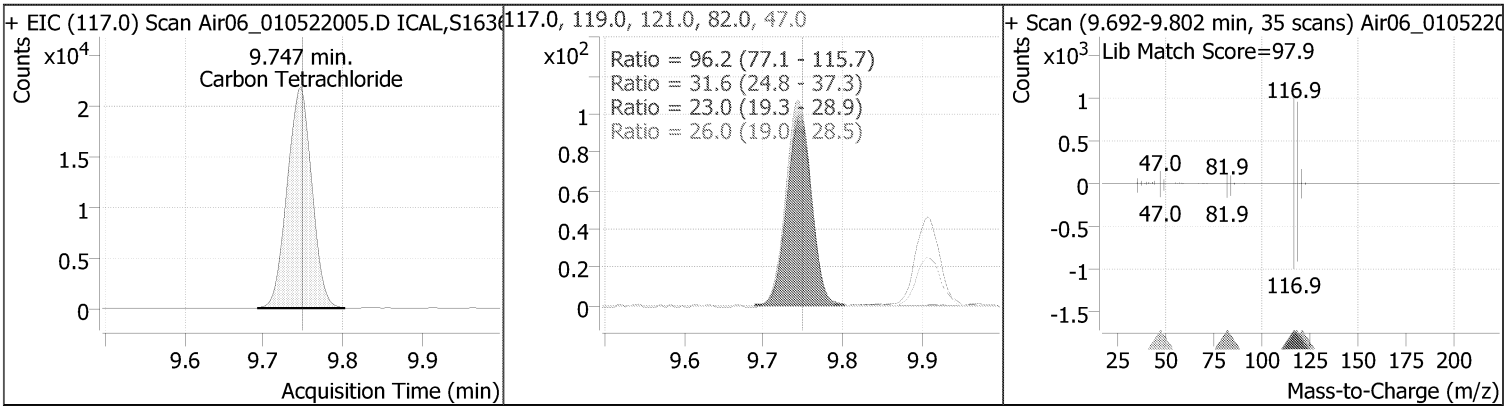
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.4436 | 9.20 | 0.00 | 43813 | 99.0 | 65.5 | 51.4 | 77.0 |
| | | | | | 61.0 | 52.8 | 38.6 | 57.9 |
| | | | | | 117.0 | 14.4 | 10.3 | 15.4 |



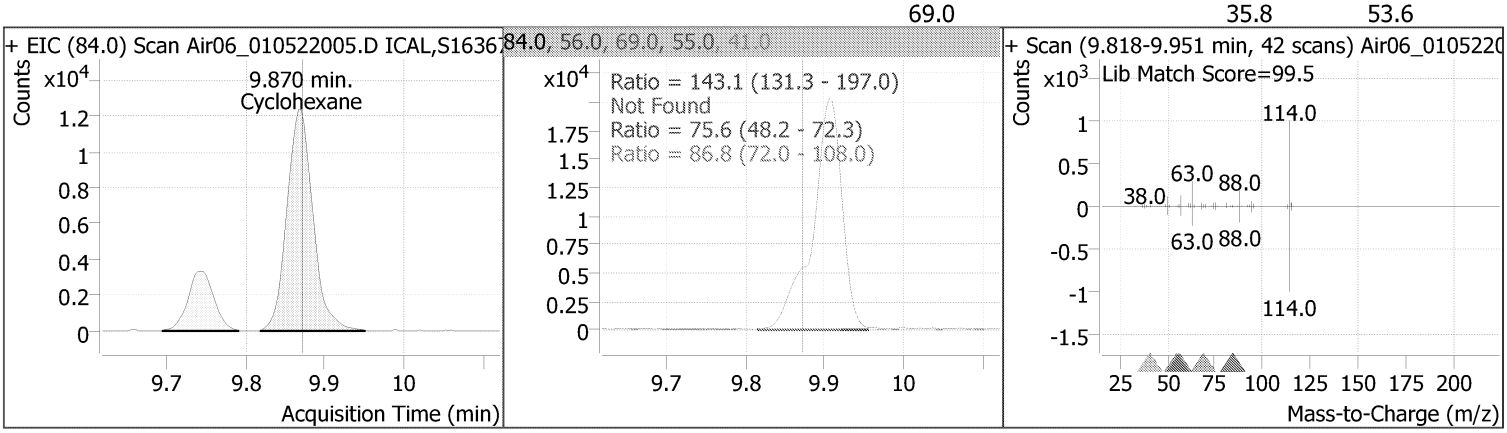

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.4542 | 9.61 | 0.00 | 66863 | 77.0 | 23.9 | 18.9 | 28.3 |
| | | | | | 50.0 | 19.9 | 16.6 | 24.9 |



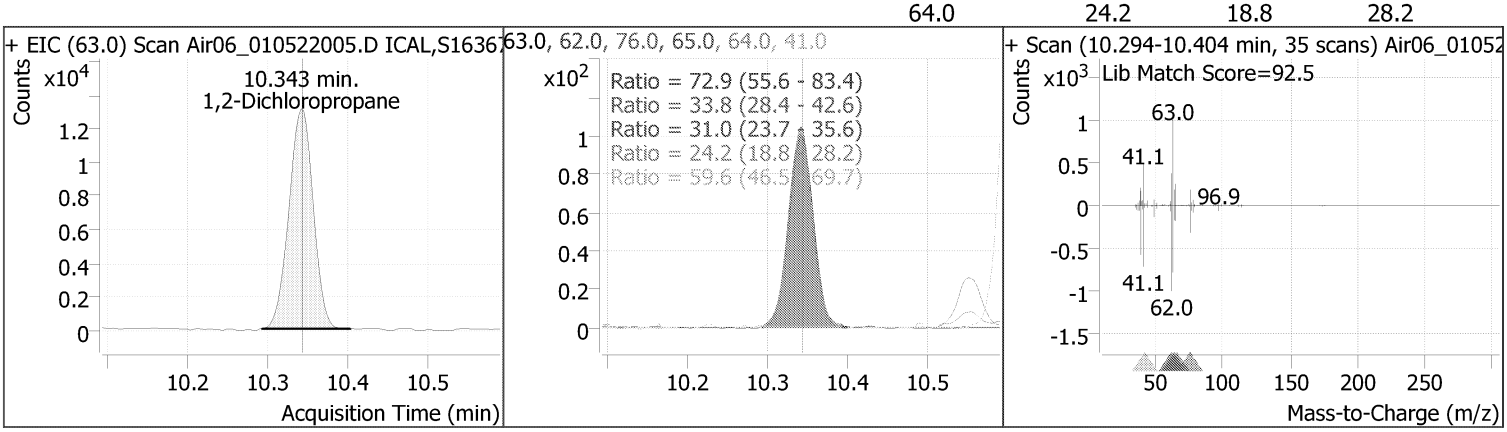

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.4470 | 9.75 | 0.00 | 47107 | 119.0 | 96.2 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.6 | 24.8 | 37.3 |
| | | | | | 82.0 | 23.0 | 19.3 | 28.9 |
| | | | | | 47.0 | 26.0 | 19.0 | 28.5 |



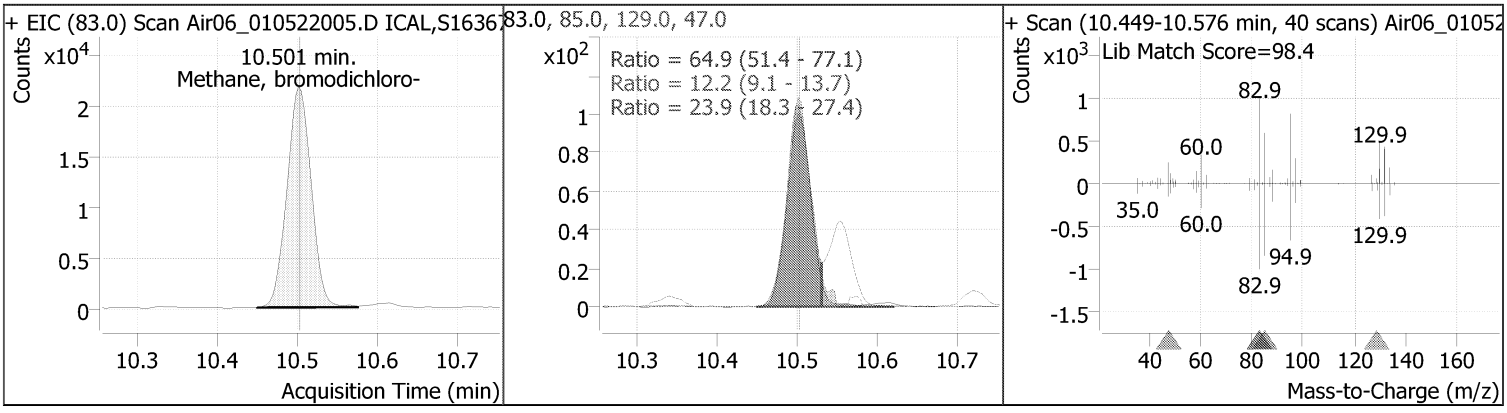
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.4583 | 9.87 | 0.00 | 28185 | 56.0 | 143.1 | 131.3 | 197.0 |
| | | | | | 41.0 | 86.8 | 72.0 | 108.0 |
| | | | | | 55.0 | 75.6 | 48.2 | 72.3 |
| | | | | | 69.0 | | 35.8 | 53.6 |



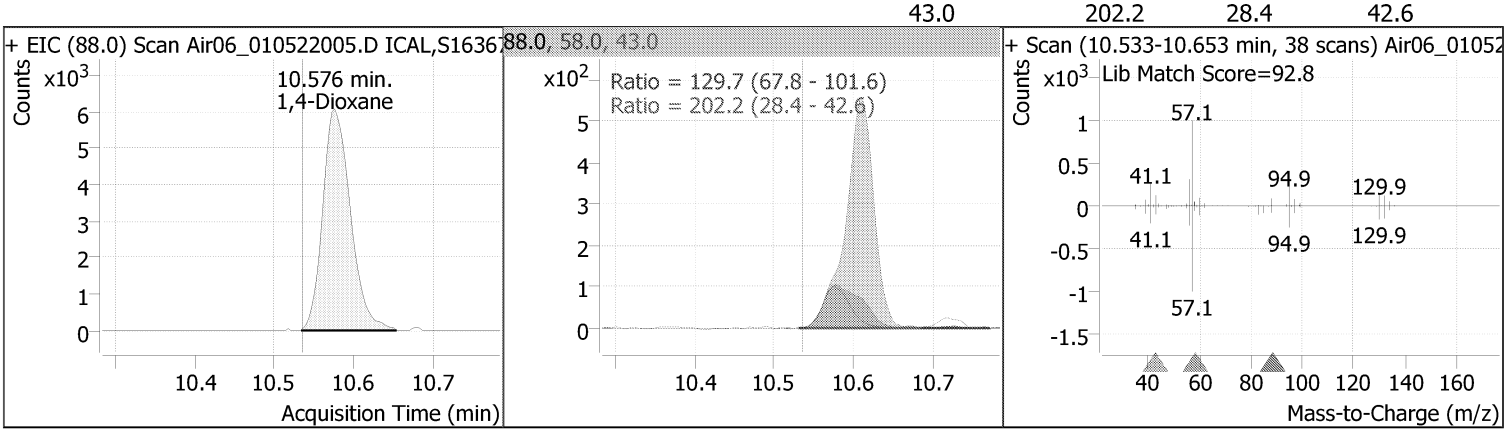

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.4323 | 10.34 | 0.00 | 27821 | 62.0 | 72.9 | 55.6 | 83.4 |
| | | | | | 41.0 | 59.6 | 46.5 | 69.7 |
| | | | | | 76.0 | 33.8 | 28.4 | 42.6 |
| | | | | | 65.0 | 31.0 | 23.7 | 35.6 |
| | | | | | 64.0 | 24.2 | 18.8 | 28.2 |



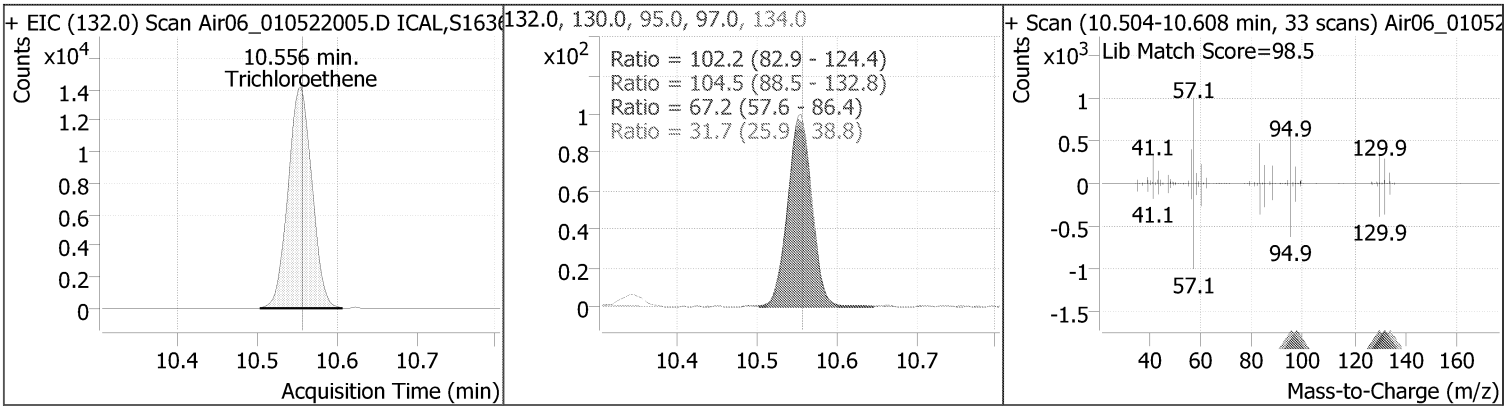

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.4386 | 10.50 | 0.00 | 46061 | 85.0 | 64.9 | 51.4 | 77.1 |
| | | | | | 47.0 | 23.9 | 18.3 | 27.4 |
| | | | | | 129.0 | 12.2 | 9.1 | 13.7 |



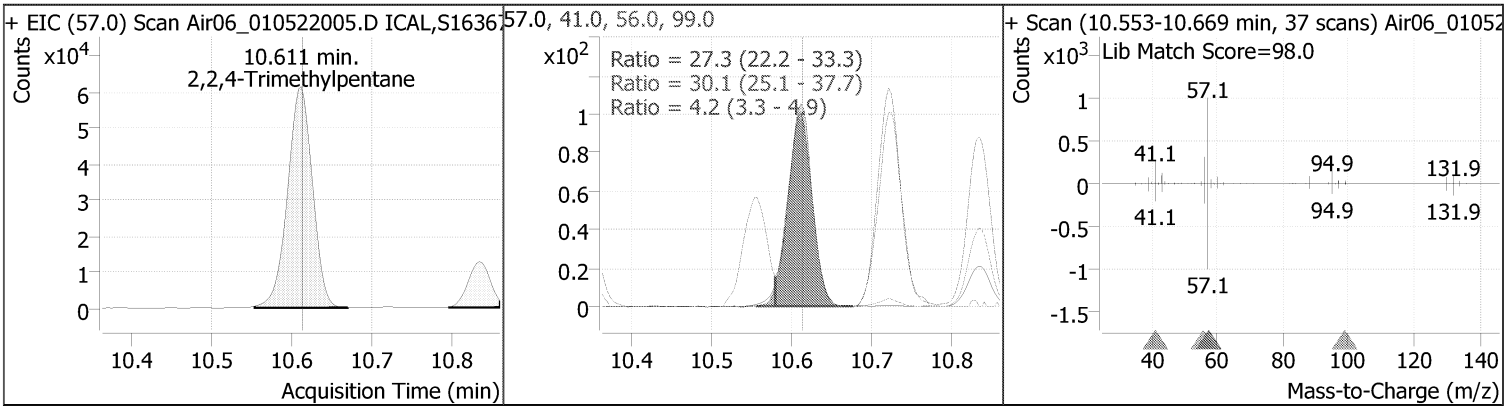
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.4393 | 10.58 | 0.04 | 14755 | 58.0 | 129.7 | 67.8 | 101.6 |
| | | | | | 43.0 | 202.2 | 28.4 | 42.6 |



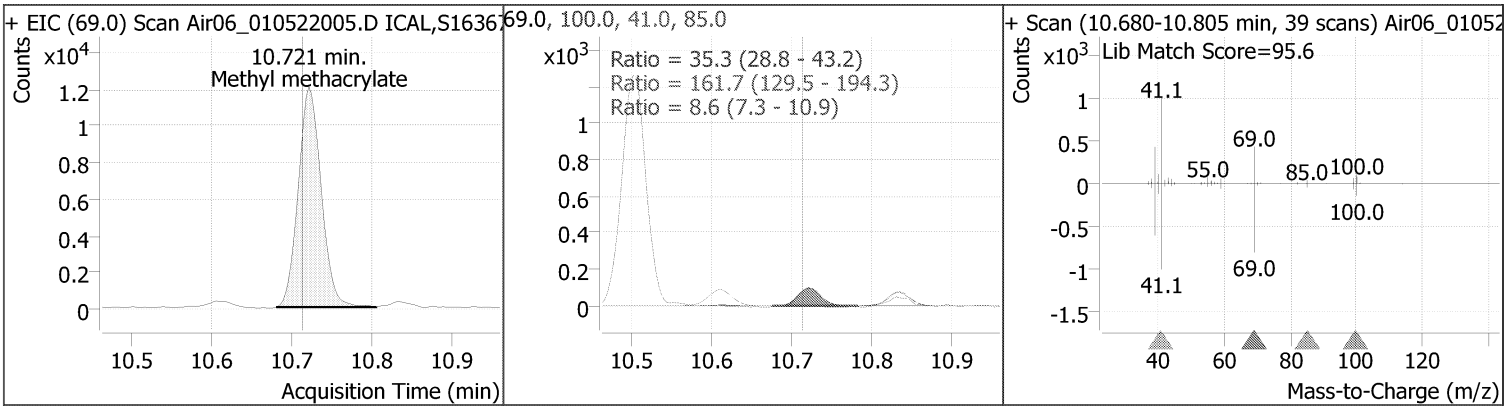

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.4507 | 10.56 | 0.00 | 29507 | 95.0 | 104.5 | 88.5 | 132.8 |
| | | | | | 130.0 | 102.2 | 82.9 | 124.4 |
| | | | | | 97.0 | 67.2 | 57.6 | 86.4 |
| | | | | | 134.0 | 31.7 | 25.9 | 38.8 |



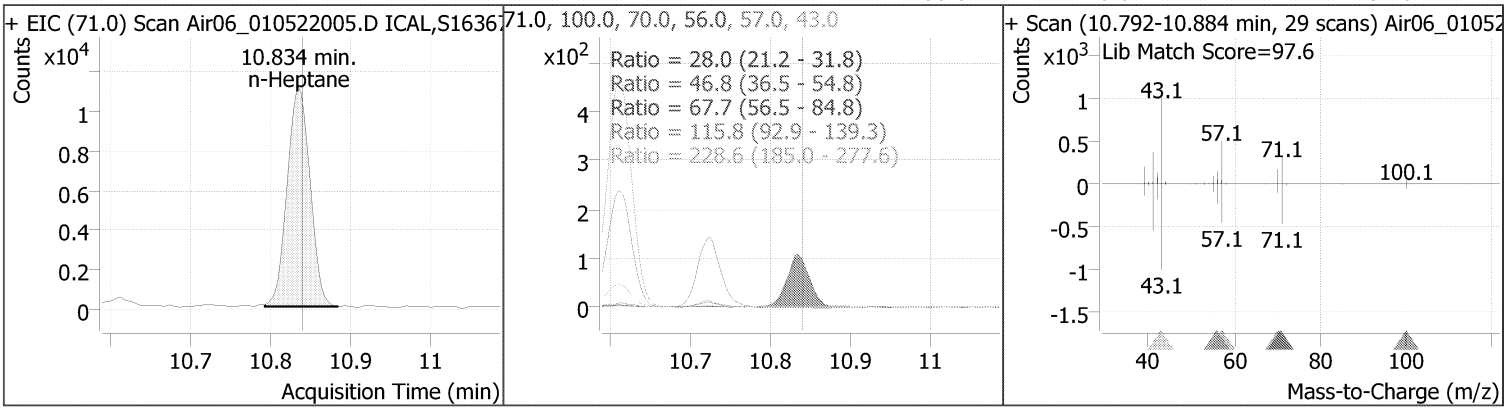

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.4557 | 10.61 | 0.00 | 133474 | 56.0 | 30.1 | 25.1 | 37.7 |
| | | | | | 41.0 | 27.3 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.2 | 3.3 | 4.9 |



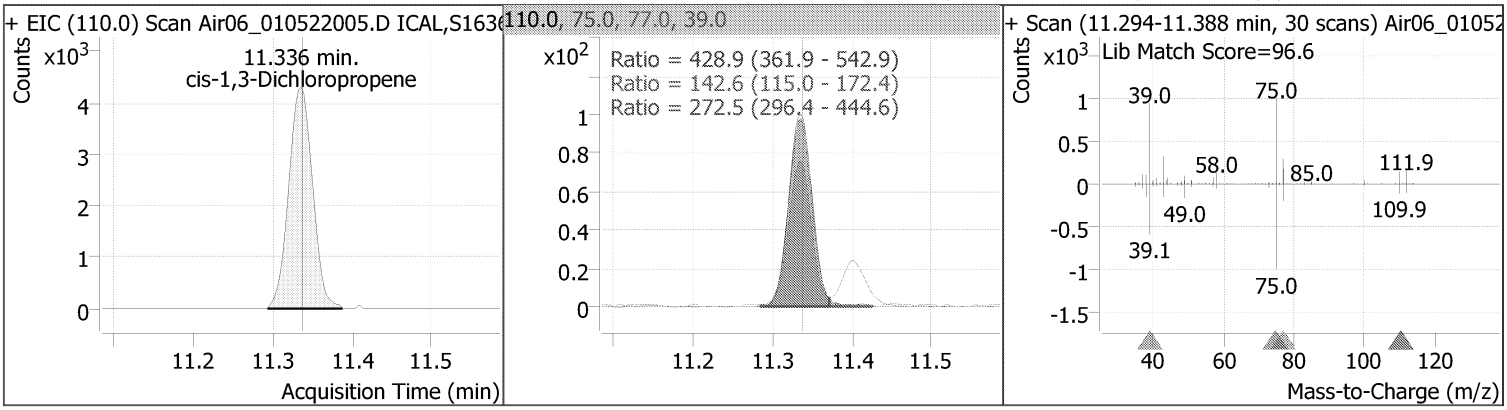
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.4410 | 10.72 | 0.01 | 24091 | 41.0 | 161.7 | 129.5 | 194.3 |
| | | | | | 100.0 | 35.3 | 28.8 | 43.2 |
| | | | | | 85.0 | 8.6 | 7.3 | 10.9 |



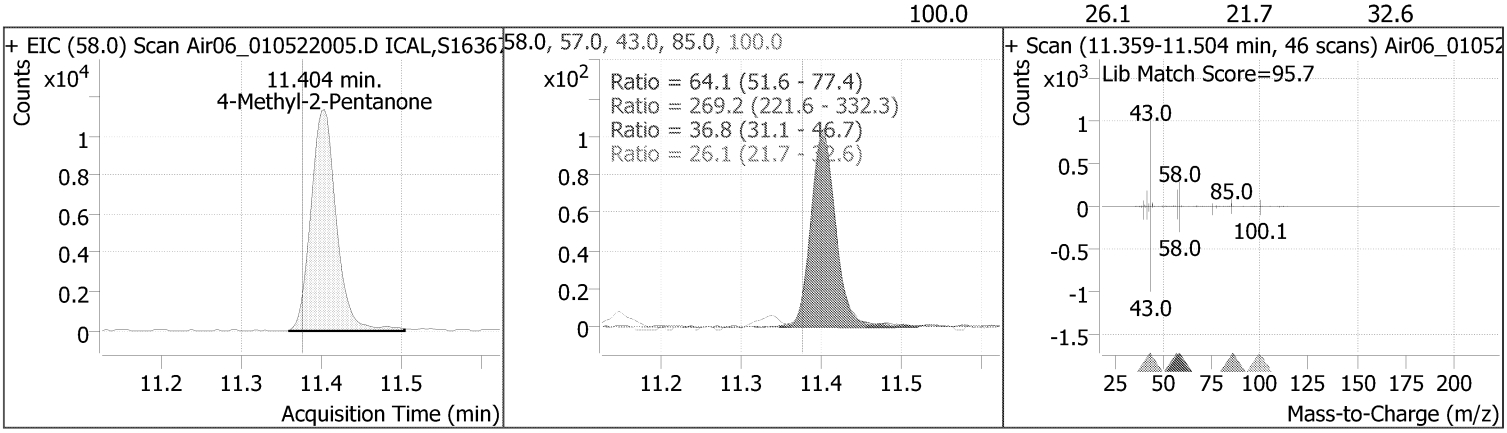

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.4396 | 10.83 | 0.00 | 22241 | 43.0 | 228.6 | 185.0 | 277.6 |
| | | | | | 57.0 | 115.8 | 92.9 | 139.3 |
| | | | | | 56.0 | 67.7 | 56.5 | 84.8 |
| | | | | | 70.0 | 46.8 | 36.5 | 54.8 |
| | | | | | 100.0 | 28.0 | 21.2 | 31.8 |



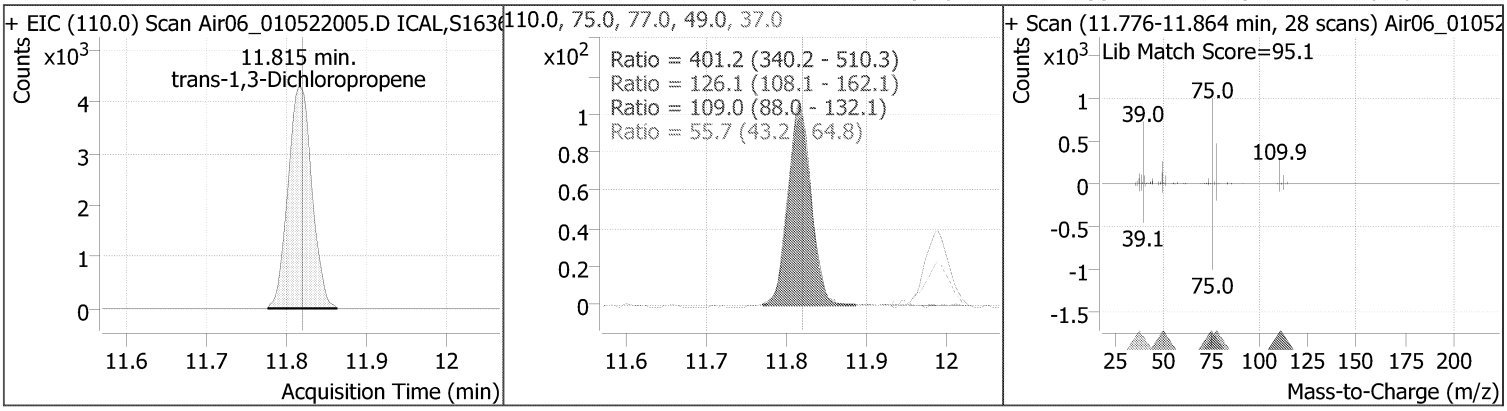

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 0.4383 | 11.34 | 0.00 | 8955 | 75.0 | 428.9 | 361.9 | 542.9 |
| | | | | | 39.0 | 272.5 | 296.4 | 444.6 |
| | | | | | 77.0 | 142.6 | 115.0 | 172.4 |



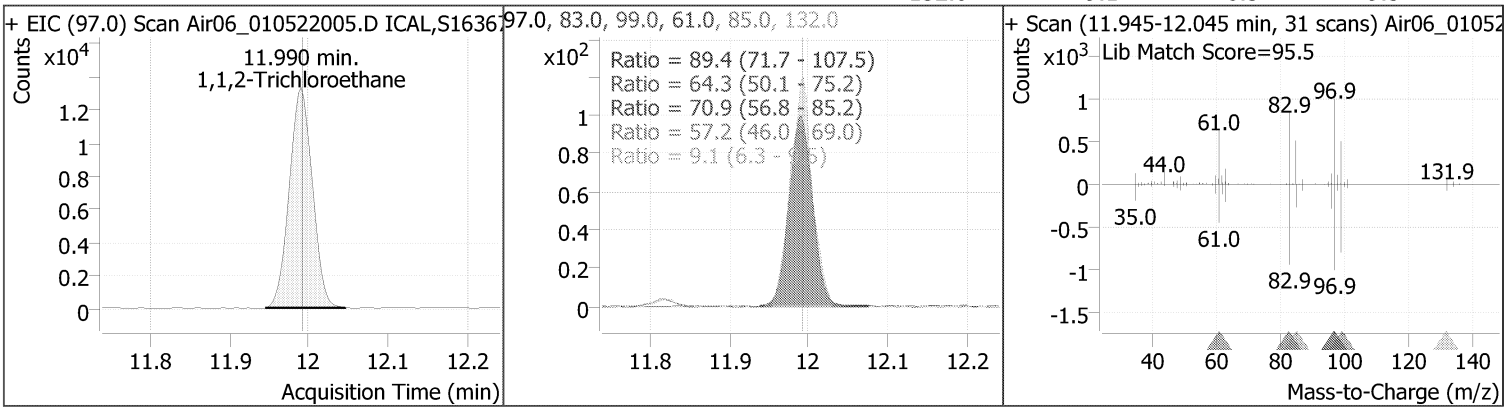
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.4469 | 11.40 | 0.03 | 25228 | 43.0 | 269.2 | 221.6 | 332.3 |
| | | | | | 57.0 | 64.1 | 51.6 | 77.4 |
| | | | | | 85.0 | 36.8 | 31.1 | 46.7 |
| | | | | | 100.0 | 26.1 | 21.7 | 32.6 |



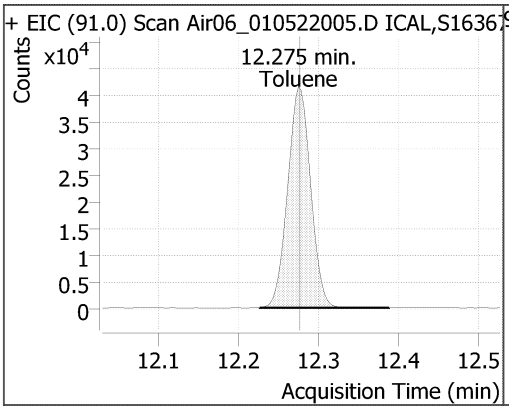

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.4272 | 11.82 | 0.00 | 8948 | 75.0 | 401.2 | 340.2 | 510.3 |
| | | | | | 77.0 | 126.1 | 108.1 | 162.1 |
| | | | | | 49.0 | 109.0 | 88.0 | 132.1 |
| | | | | | 37.0 | 55.7 | 43.2 | 64.8 |

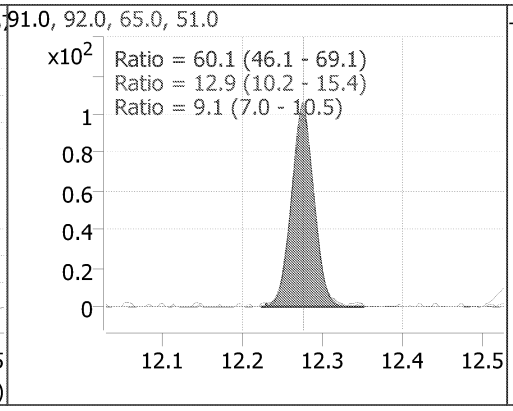


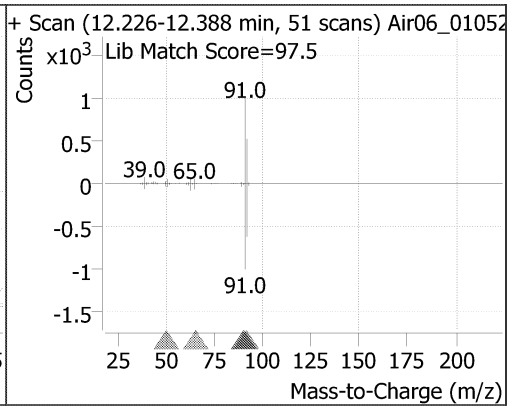

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.4363 | 11.99 | 0.00 | 26738 | 83.0 | 89.4 | 71.7 | 107.5 |
| | | | | | 61.0 | 70.9 | 56.8 | 85.2 |
| | | | | | 99.0 | 64.3 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.2 | 46.0 | 69.0 |
| | | | | | 132.0 | 9.1 | 6.3 | 9.5 |



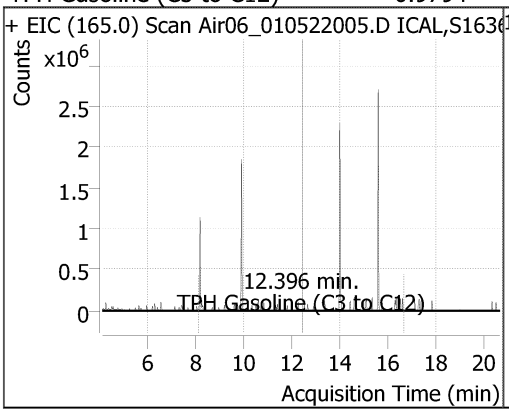
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.4469 | 12.27 | 0.00 | 83230 | 92.0 | 60.1 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.9 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.1 | 7.0 | 10.5 |

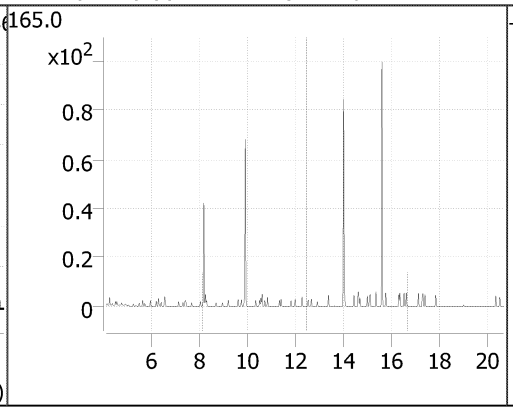


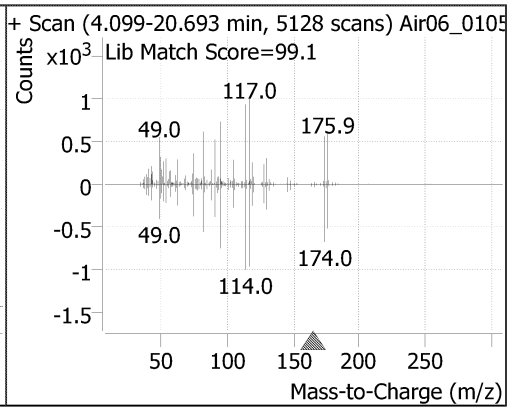



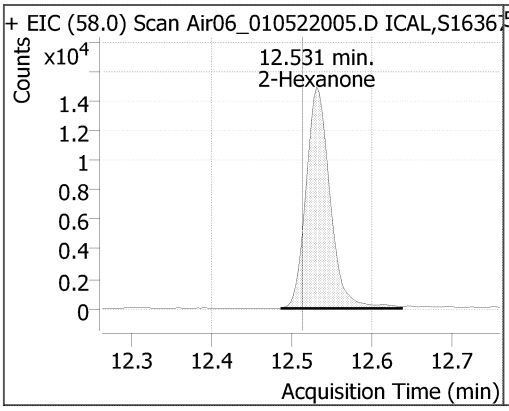

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 0.9794 | 12.40 | 0.00 | 12977116 | | | | |

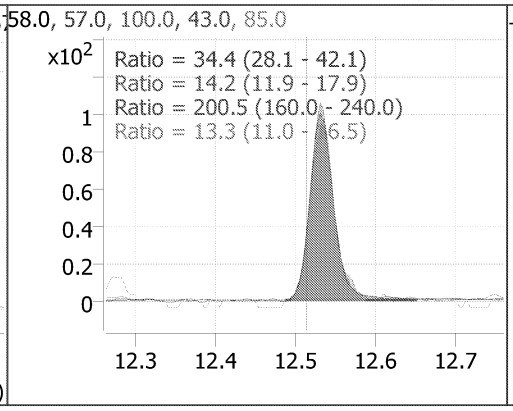


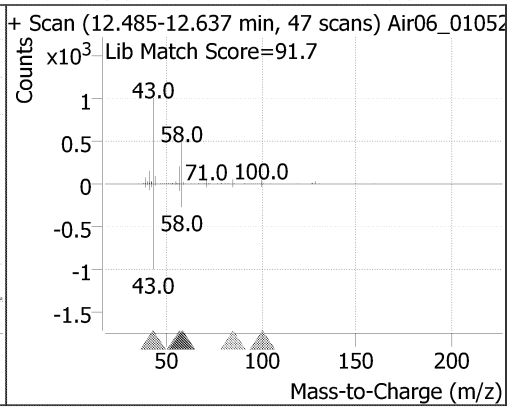



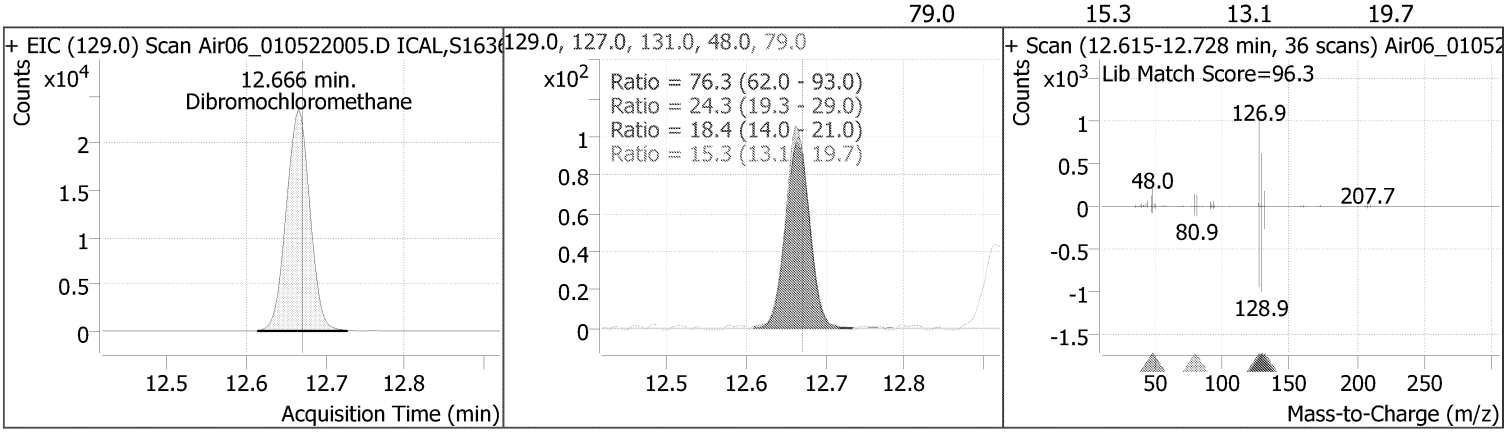

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.4324 | 12.53 | 0.02 | 31348 | 43.0 | 200.5 | 160.0 | 240.0 |
| | | | | | 57.0 | 34.4 | 28.1 | 42.1 |
| | | | | | 100.0 | 14.2 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.3 | 11.0 | 16.5 |



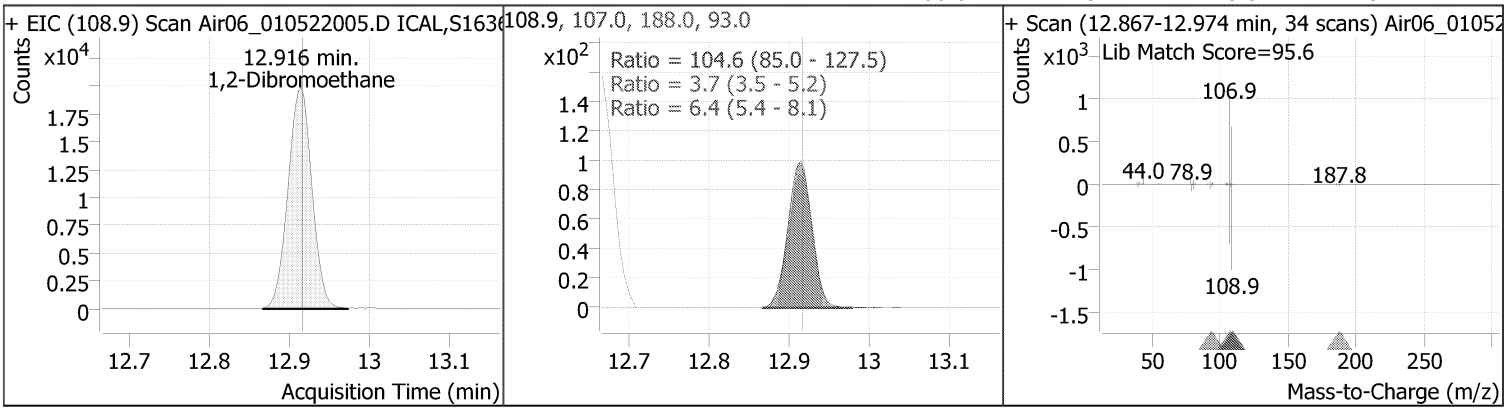



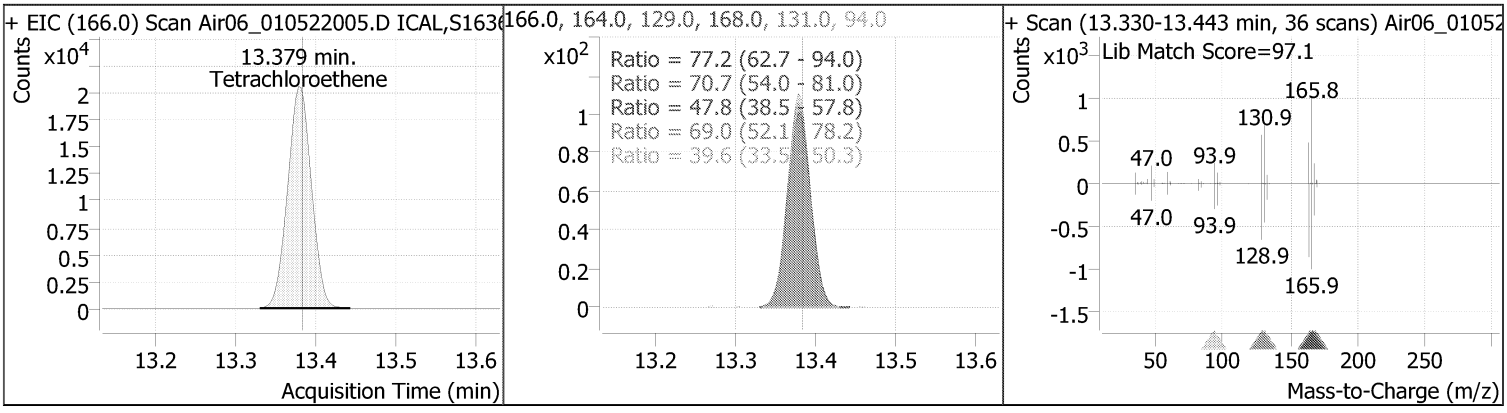
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.4359 | 12.67 | 0.00 | 48503 | 127.0 | 76.3 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.3 | 19.3 | 29.0 |
| | | | | | 48.0 | 18.4 | 14.0 | 21.0 |
| | | | | | 79.0 | 15.3 | 13.1 | 19.7 |



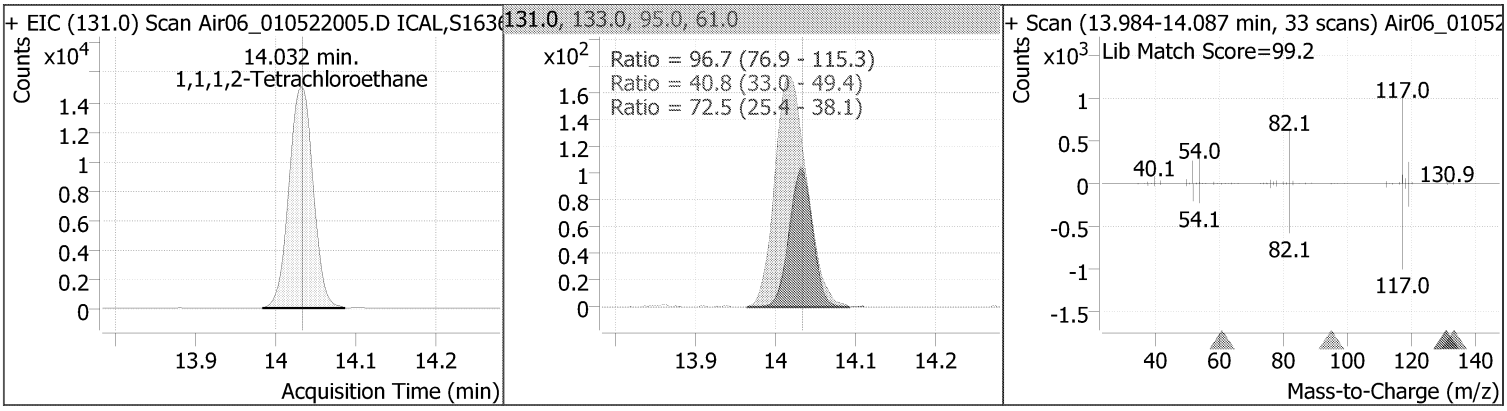

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.4402 | 12.92 | 0.00 | 41506 | 107.0 | 104.6 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.4 | 5.4 | 8.1 |
| | | | | | 188.0 | 3.7 | 3.5 | 5.2 |



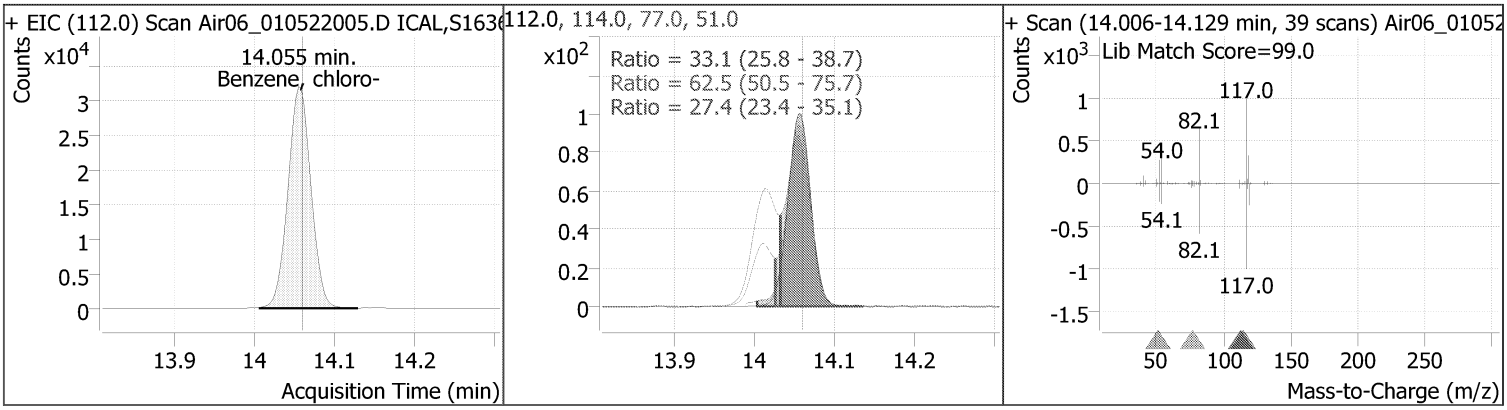

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.4456 | 13.38 | 0.00 | 42902 | 164.0 | 77.2 | 62.7 | 94.0 |
| | | | | | 129.0 | 70.7 | 54.0 | 81.0 |
| | | | | | 131.0 | 69.0 | 52.1 | 78.2 |
| | | | | | 168.0 | 47.8 | 38.5 | 57.8 |
| | | | | | 94.0 | 39.6 | 33.5 | 50.3 |



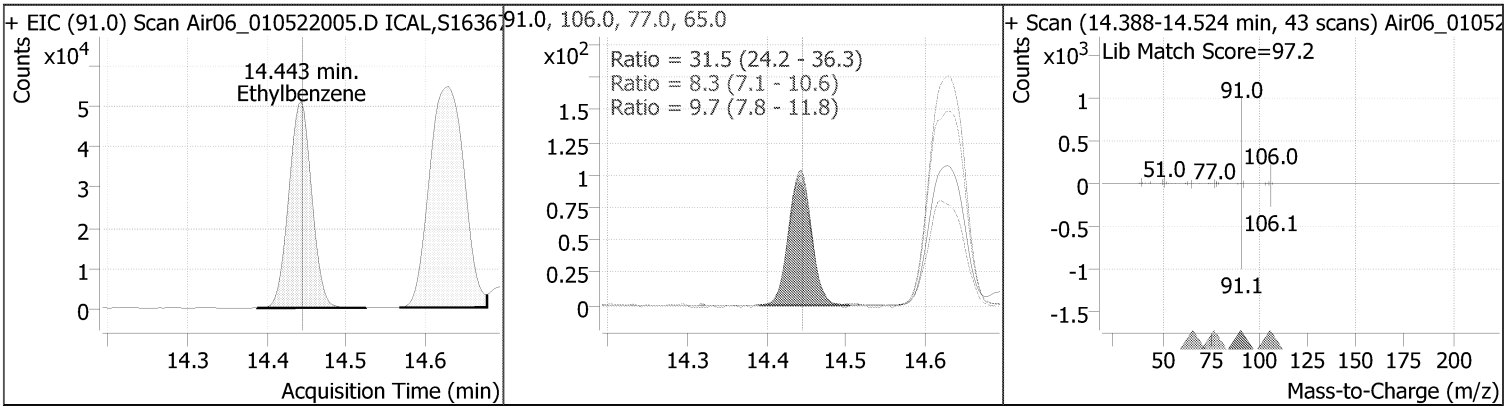
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.4482 | 14.03 | 0.00 | 31812 | 133.0 | 96.7 | 76.9 | 115.3 |
| | | | | | 95.0 | 40.8 | 33.0 | 49.4 |
| | | | | | 61.0 | 72.5 | 25.4 | 38.1 |



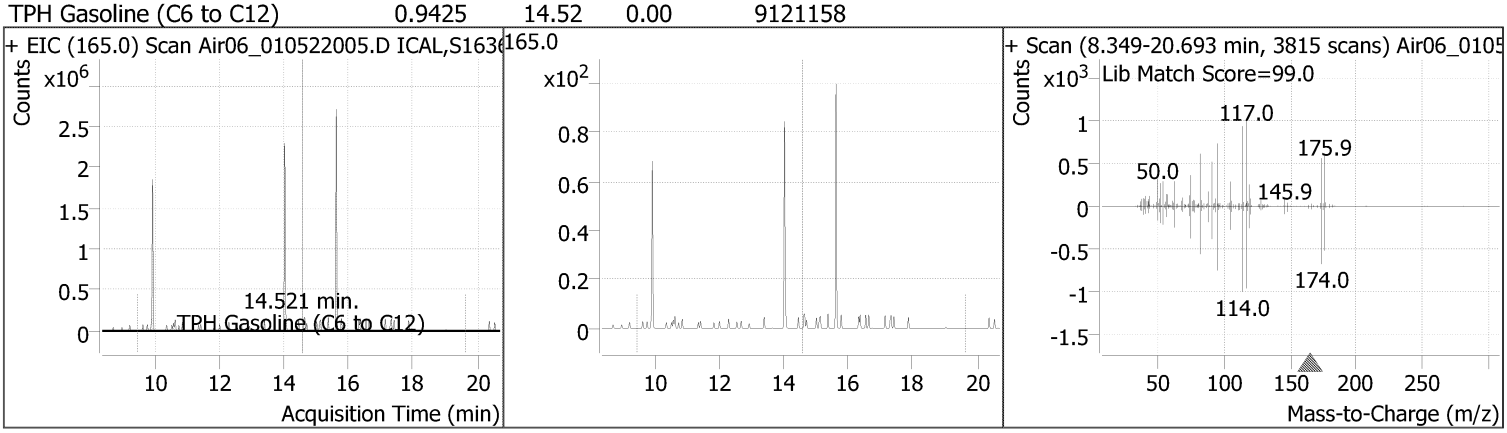

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.4535 | 14.05 | -0.01 | 63881 | 77.0 | 62.5 | 50.5 | 75.7 |
| | | | | | 114.0 | 33.1 | 25.8 | 38.7 |
| | | | | | 51.0 | 27.4 | 23.4 | 35.1 |



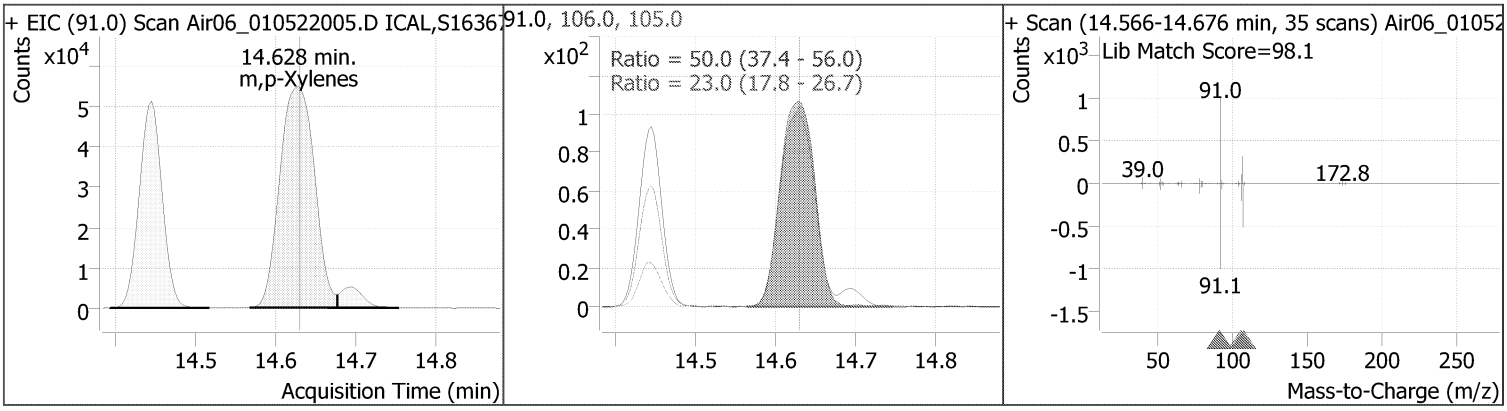

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.4569 | 14.44 | 0.00 | 102247 | 106.0 | 31.5 | 24.2 | 36.3 |
| | | | | | 65.0 | 9.7 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.3 | 7.1 | 10.6 |



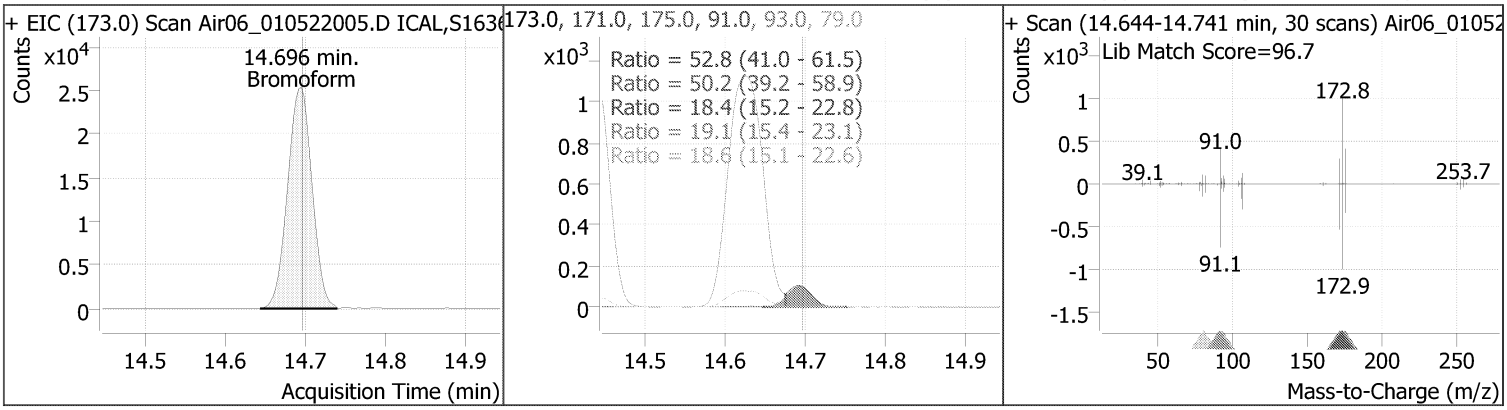
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 0.9425 | 14.52 | 0.00 | 9121158 | | | | |



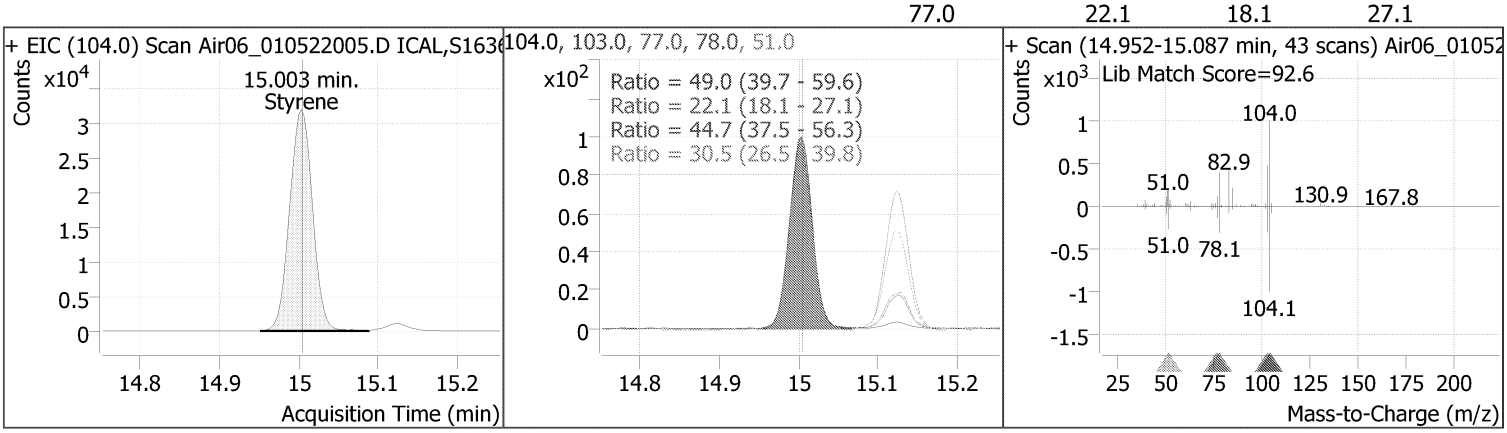

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 0.9233 | 14.63 | -0.01 | 166177 | 106.0 | 50.0 | 37.4 | 56.0 |
| | | | | | 105.0 | 23.0 | 17.8 | 26.7 |



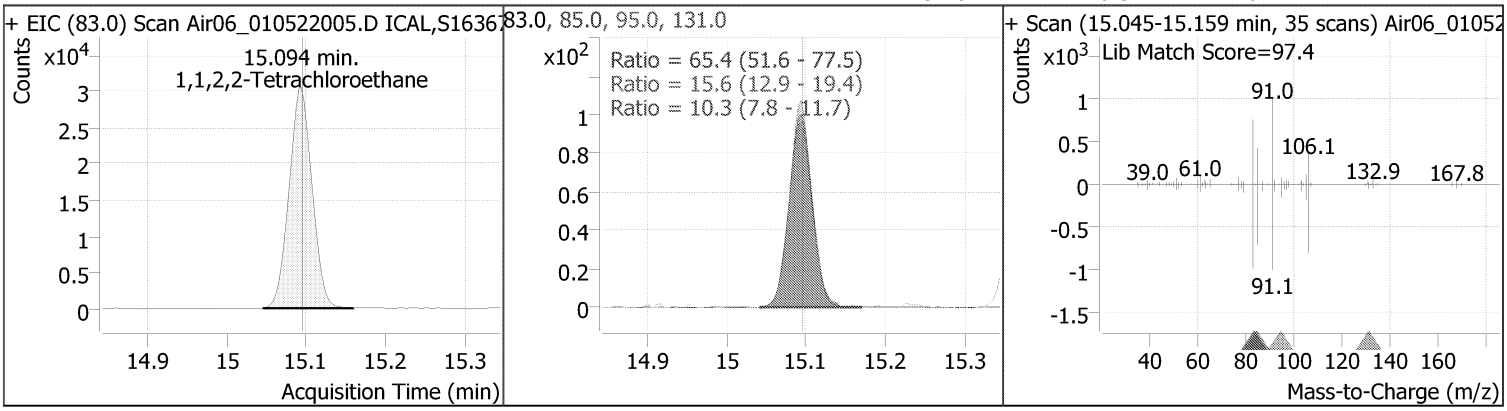

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.4392 | 14.70 | 0.00 | 54140 | 171.0 | 52.8 | 41.0 | 61.5 |
| | | | | | 175.0 | 50.2 | 39.2 | 58.9 |
| | | | | | 93.0 | 19.1 | 15.4 | 23.1 |
| | | | | | 91.0 | 18.4 | 15.2 | 22.8 |
| | | | | | 79.0 | 18.6 | 15.1 | 22.6 |



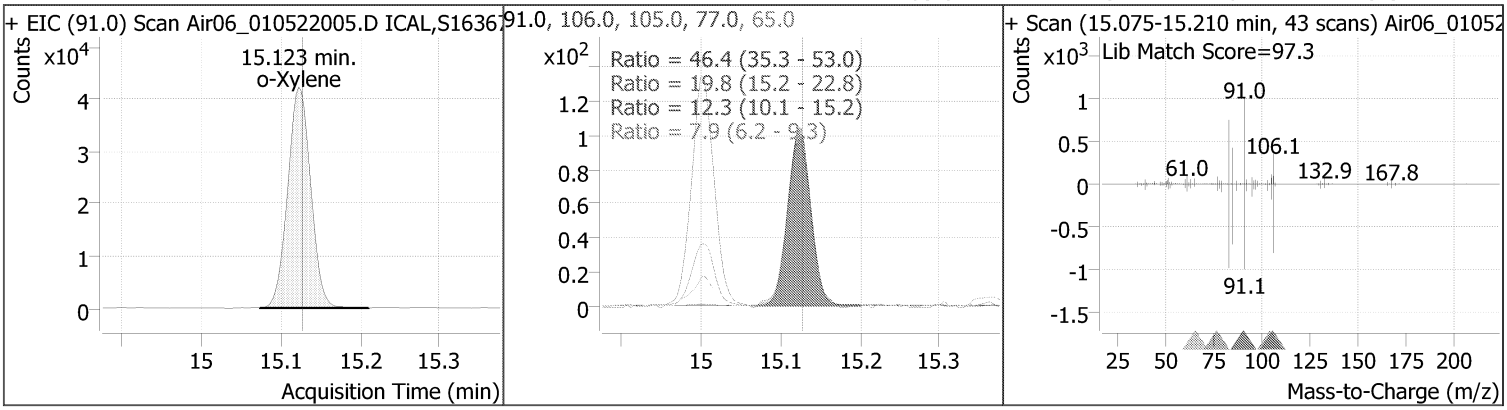
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.4508 | 15.00 | 0.00 | 64291 | 103.0 | 49.0 | 39.7 | 59.6 |
| | | | | | 78.0 | 44.7 | 37.5 | 56.3 |
| | | | | | 51.0 | 30.5 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.1 | 18.1 | 27.1 |



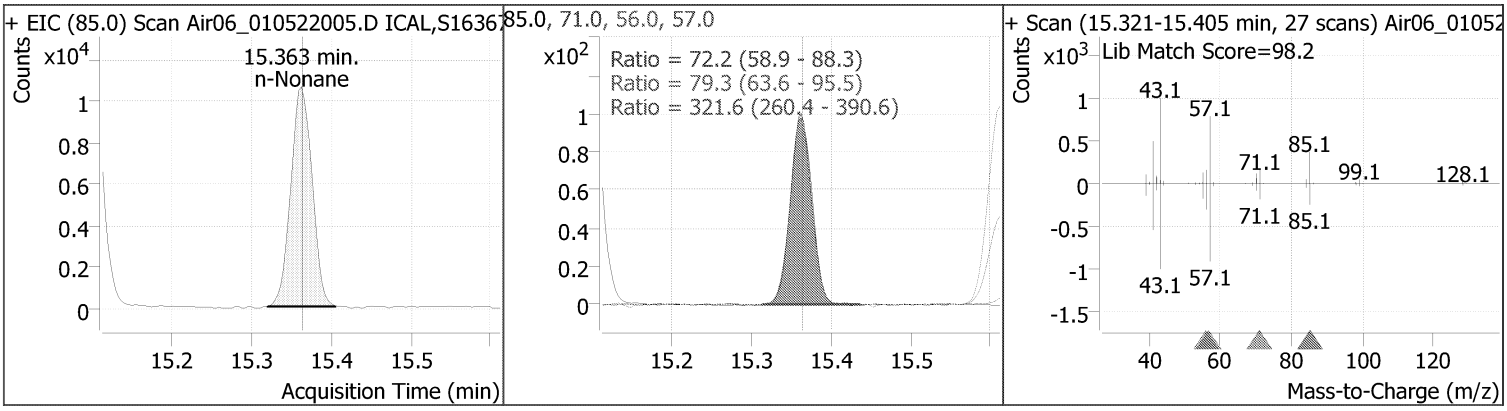

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.4483 | 15.09 | 0.00 | 60969 | 85.0 | 65.4 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.6 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.3 | 7.8 | 11.7 |



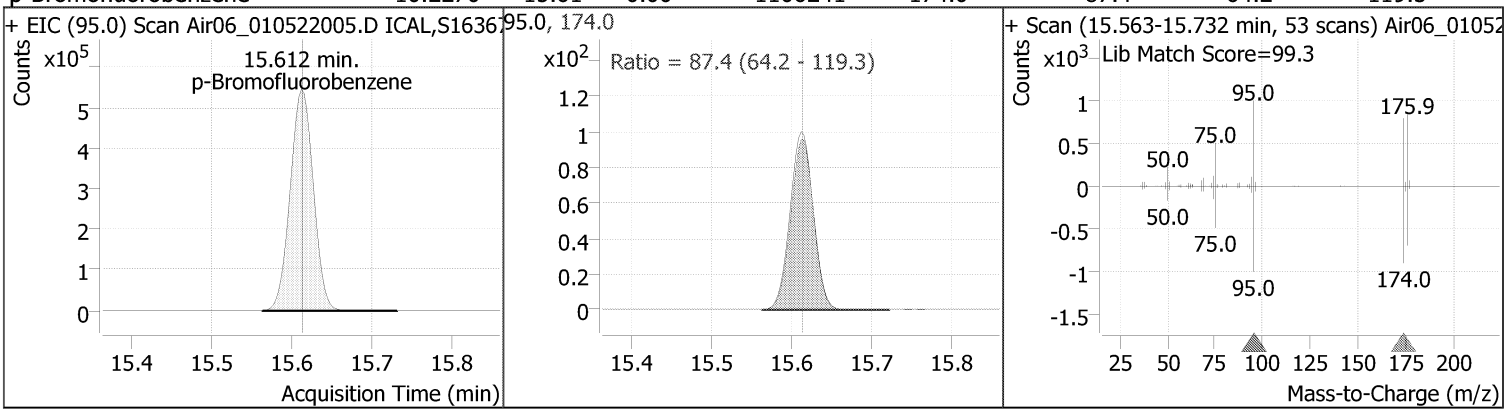

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.4577 | 15.12 | -0.01 | 84694 | 106.0 | 46.4 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.8 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.3 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.9 | 6.2 | 9.3 |



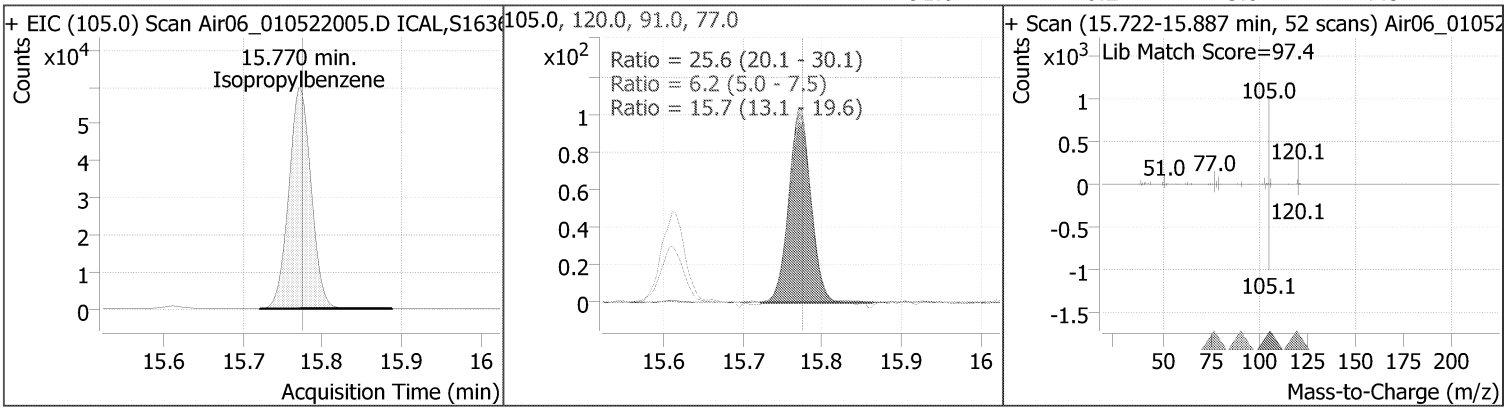
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.4648 | 15.36 | 0.00 | 19871 | 57.0 | 321.6 | 260.4 | 390.6 |
| | | | | | 56.0 | 79.3 | 63.6 | 95.5 |
| | | | | | 71.0 | 72.2 | 58.9 | 88.3 |



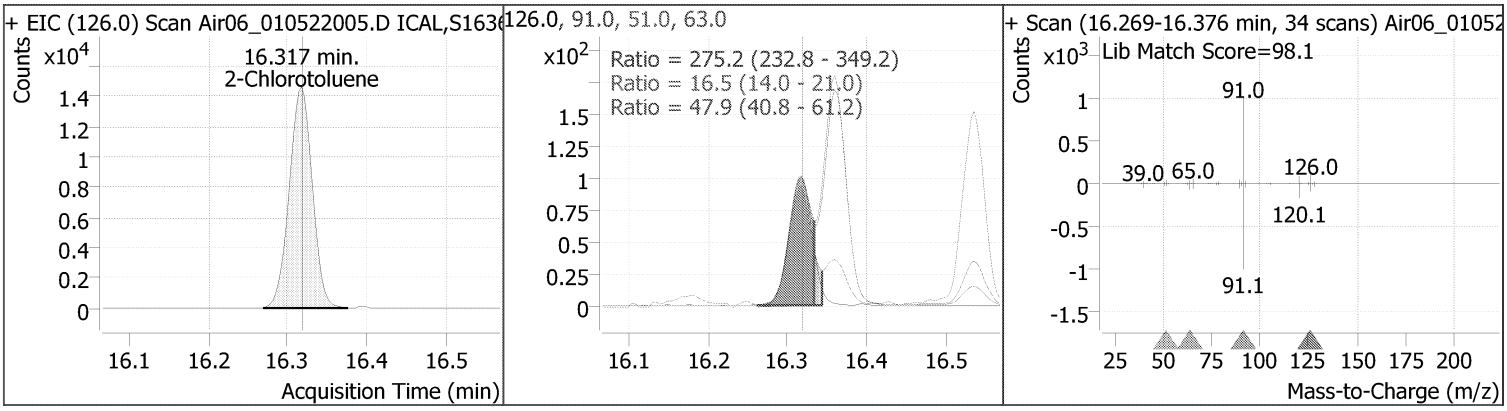

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.2270 | 15.61 | 0.00 | 1106241 | 174.0 | 87.4 | 64.2 | 119.3 |



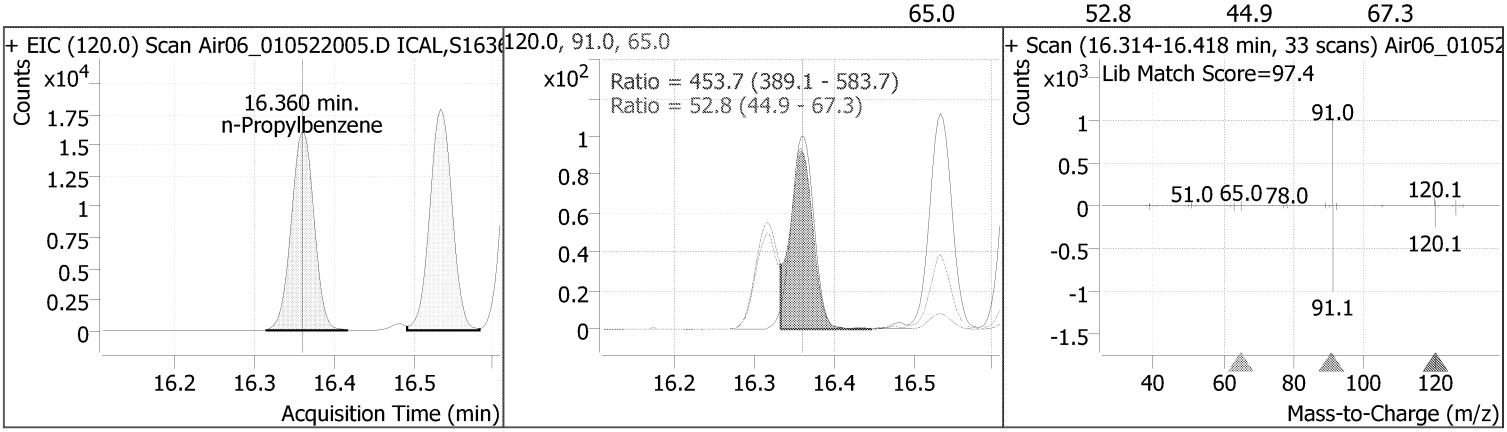

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.4608 | 15.77 | -0.01 | 116888 | 120.0 | 25.6 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.7 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.2 | 5.0 | 7.5 |



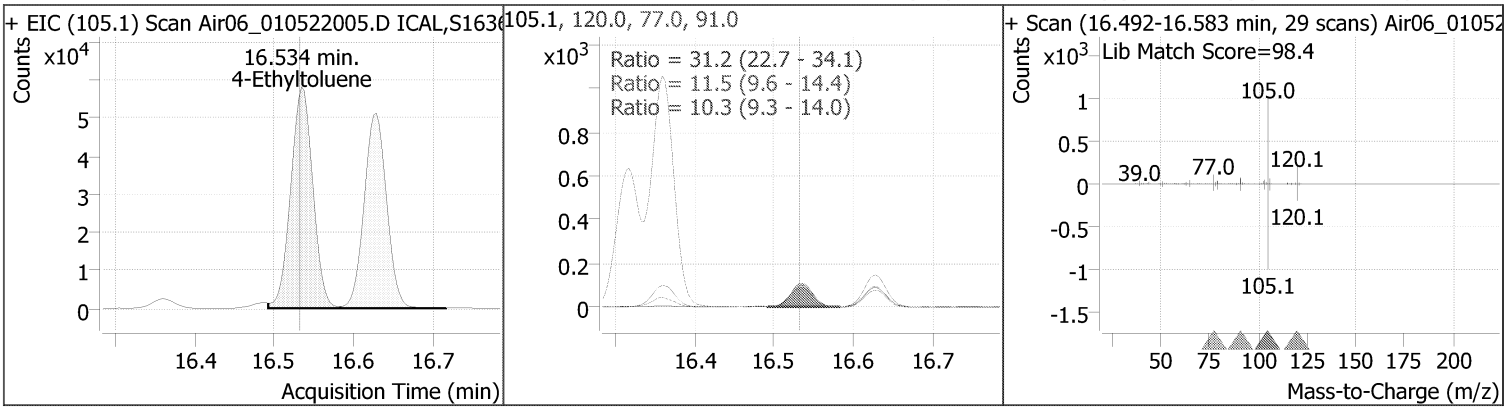
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.4549 | 16.32 | 0.00 | 29388 | 91.0 | 275.2 | 232.8 | 349.2 |
| | | | | | 63.0 | 47.9 | 40.8 | 61.2 |
| | | | | | 51.0 | 16.5 | 14.0 | 21.0 |



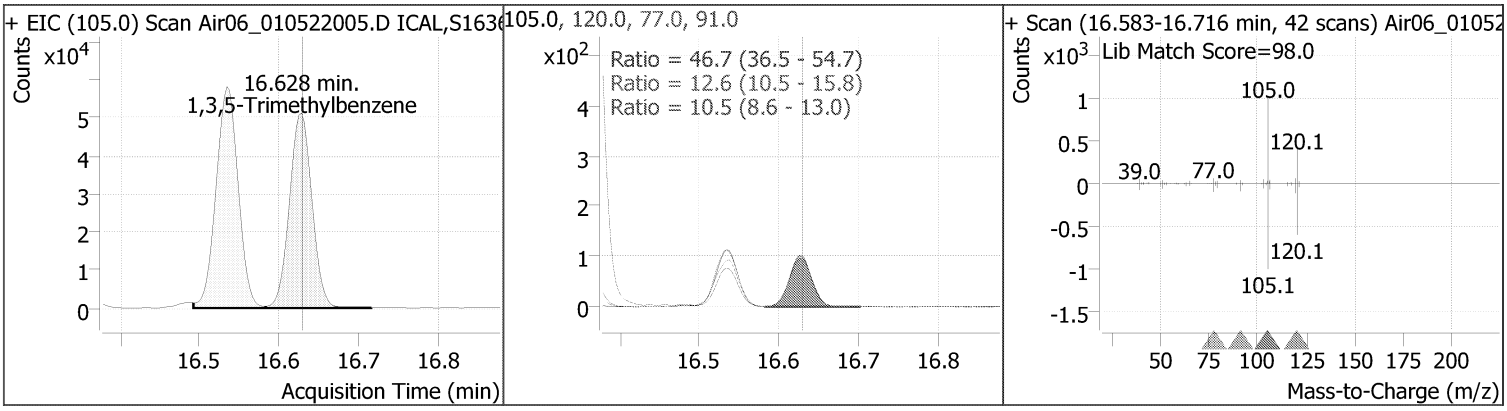

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.4540 | 16.36 | 0.00 | 32179 | 91.0 | 453.7 | 389.1 | 583.7 |
| | | | | | 65.0 | 52.8 | 44.9 | 67.3 |



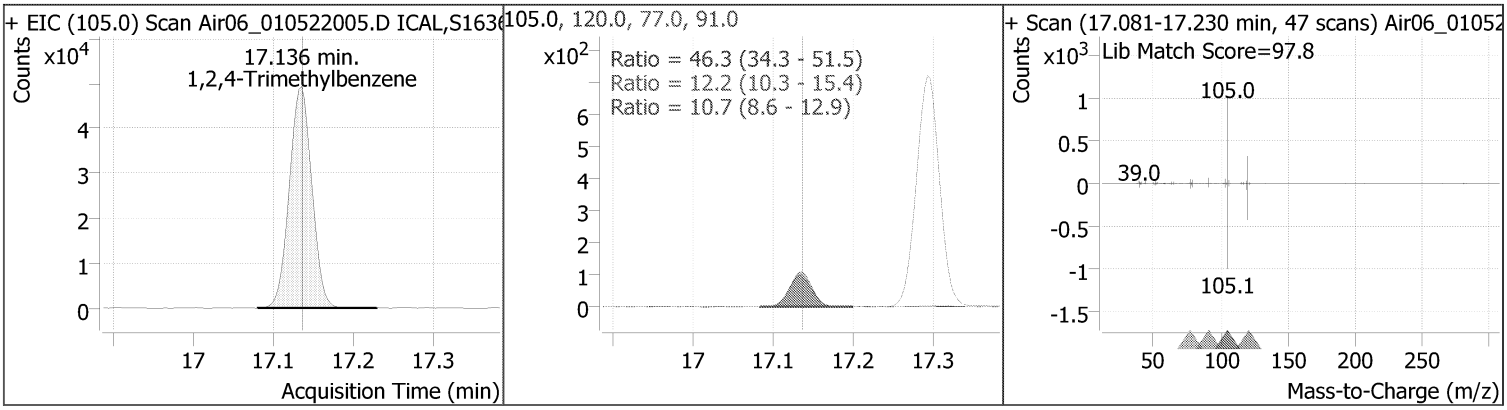

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.4473 | 16.53 | 0.00 | 112269 | 120.0 | 31.2 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.5 | 9.6 | 14.4 |
| | | | | | 91.0 | 10.3 | 9.3 | 14.0 |



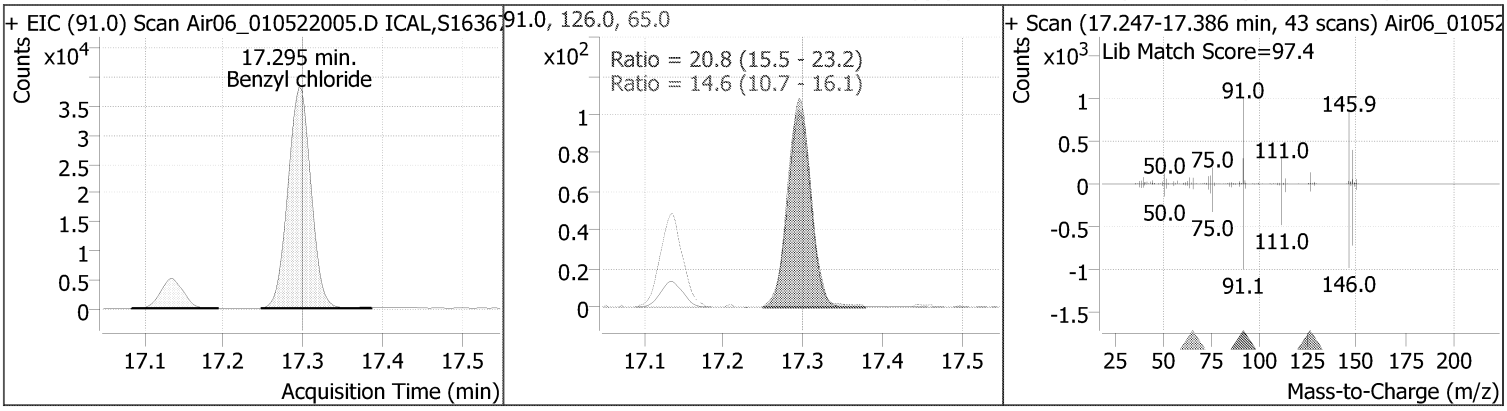
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.4635 | 16.63 | 0.00 | 100723 | 120.0 | 46.7 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.6 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.5 | 8.6 | 13.0 |



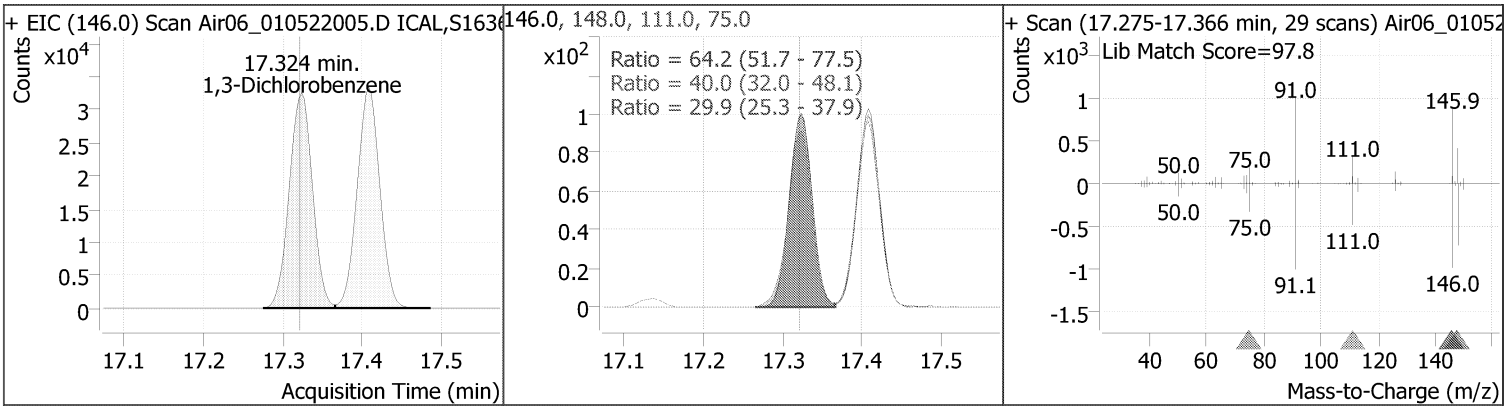

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.4492 | 17.14 | 0.00 | 96943 | 120.0 | 46.3 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.2 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.7 | 8.6 | 12.9 |



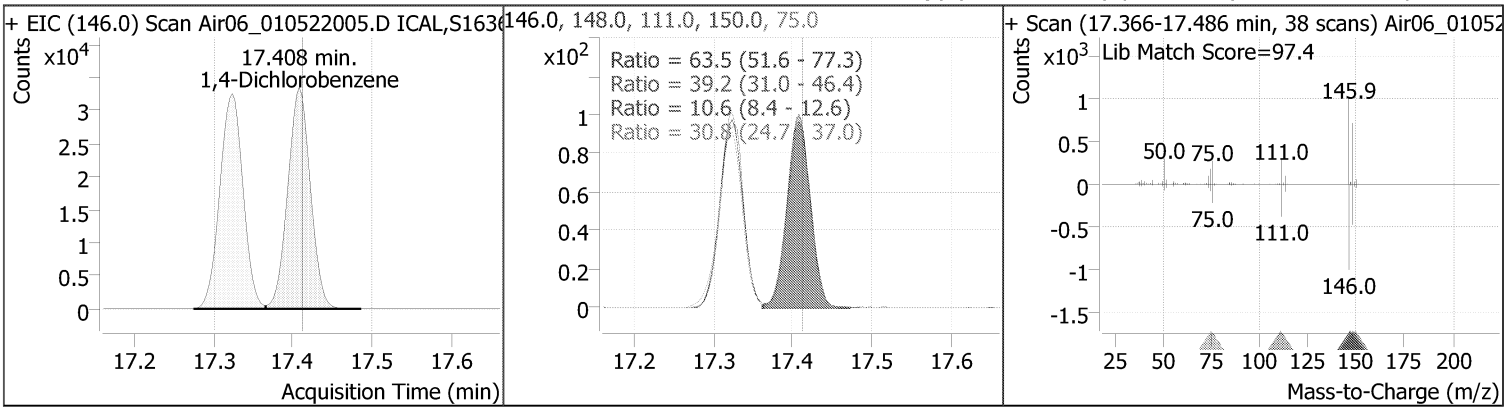

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.4066 | 17.29 | -0.01 | 77163 | 126.0 | 20.8 | 15.5 | 23.2 |
| | | | | | 65.0 | 14.6 | 10.7 | 16.1 |



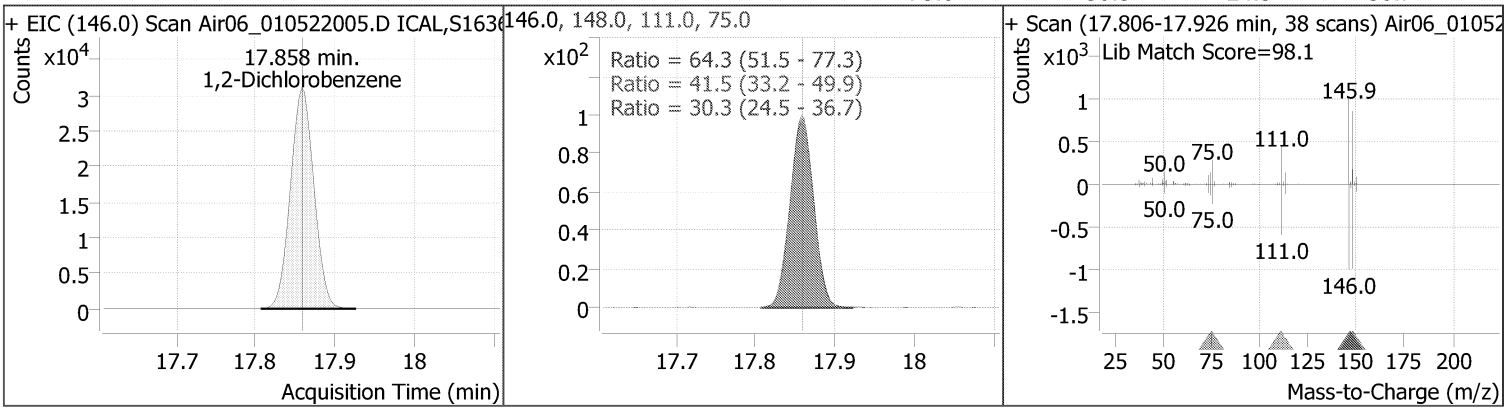
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.4477 | 17.32 | 0.00 | 66276 | 148.0 | 64.2 | 51.7 | 77.5 |
| | | | | | 111.0 | 40.0 | 32.0 | 48.1 |
| | | | | | 75.0 | 29.9 | 25.3 | 37.9 |



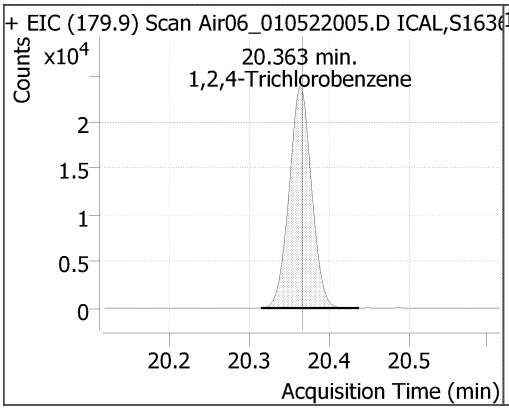

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.4436 | 17.41 | -0.01 | 66405 | 148.0 | 63.5 | 51.6 | 77.3 |
| | | | | | 111.0 | 39.2 | 31.0 | 46.4 |
| | | | | | 75.0 | 30.8 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.6 | 8.4 | 12.6 |

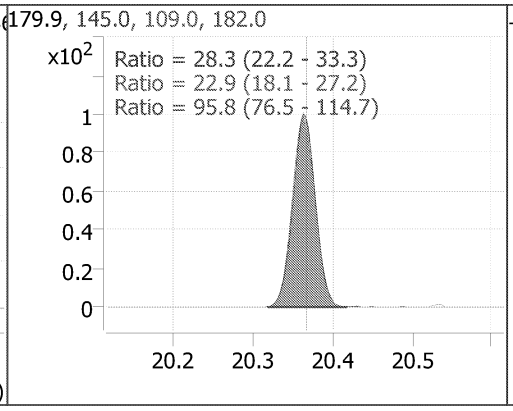


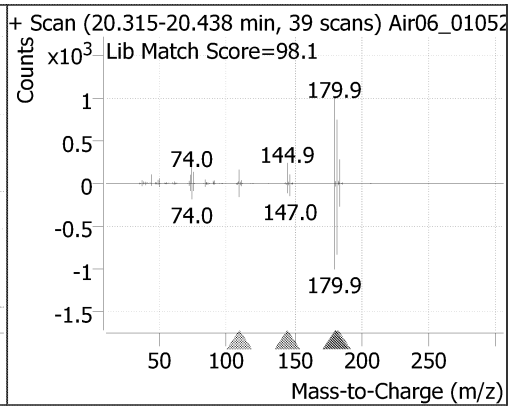

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.4420 | 17.86 | 0.00 | 63814 | 148.0 | 64.3 | 51.5 | 77.3 |
| | | | | | 111.0 | 41.5 | 33.2 | 49.9 |
| | | | | | 75.0 | 30.3 | 24.5 | 36.7 |



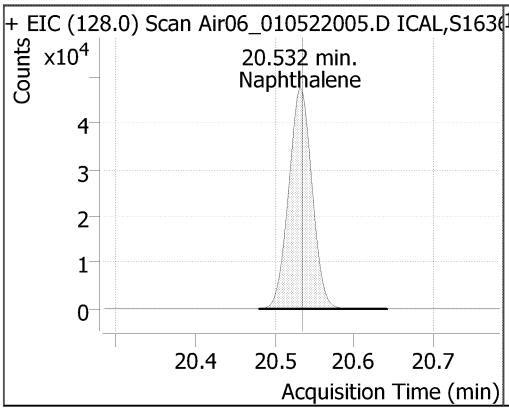
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.3943 | 20.36 | -0.01 | 46909 | 182.0 | 95.8 | 76.5 | 114.7 |
| | | | | | 145.0 | 28.3 | 22.2 | 33.3 |
| | | | | | 109.0 | 22.9 | 18.1 | 27.2 |

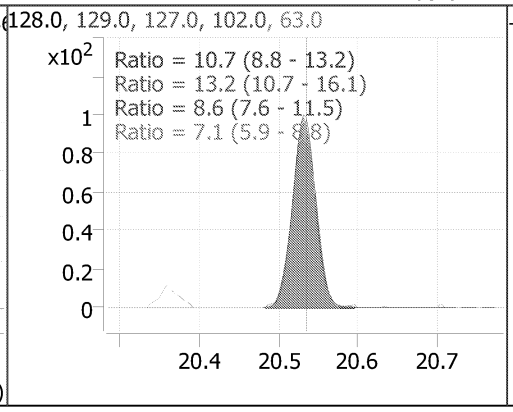


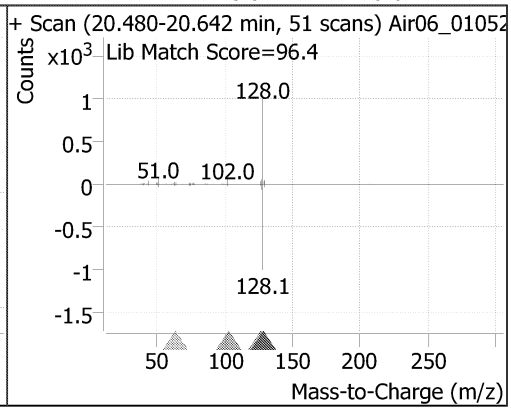



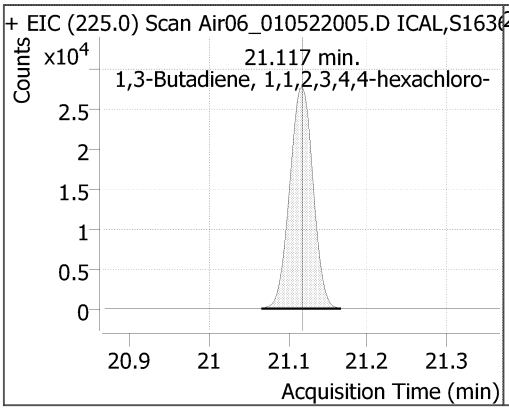

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.3989 | 20.53 | -0.01 | 98237 | 127.0 | 13.2 | 10.7 | 16.1 |
| | | | | | 129.0 | 10.7 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.6 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.1 | 5.9 | 8.8 |

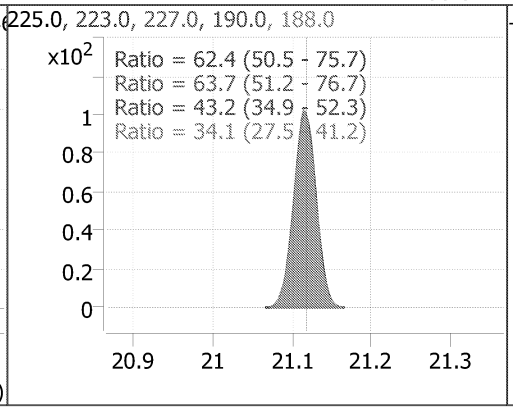


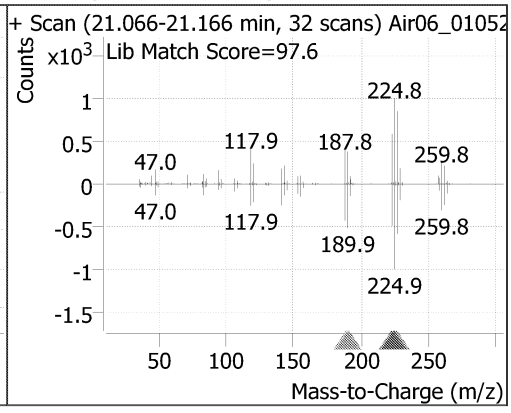




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.4471 | 21.12 | 0.00 | 57161 | 227.0 | 63.7 | 51.2 | 76.7 |
| | | | | | 223.0 | 62.4 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.2 | 34.9 | 52.3 |
| | | | | | 188.0 | 34.1 | 27.5 | 41.2 |

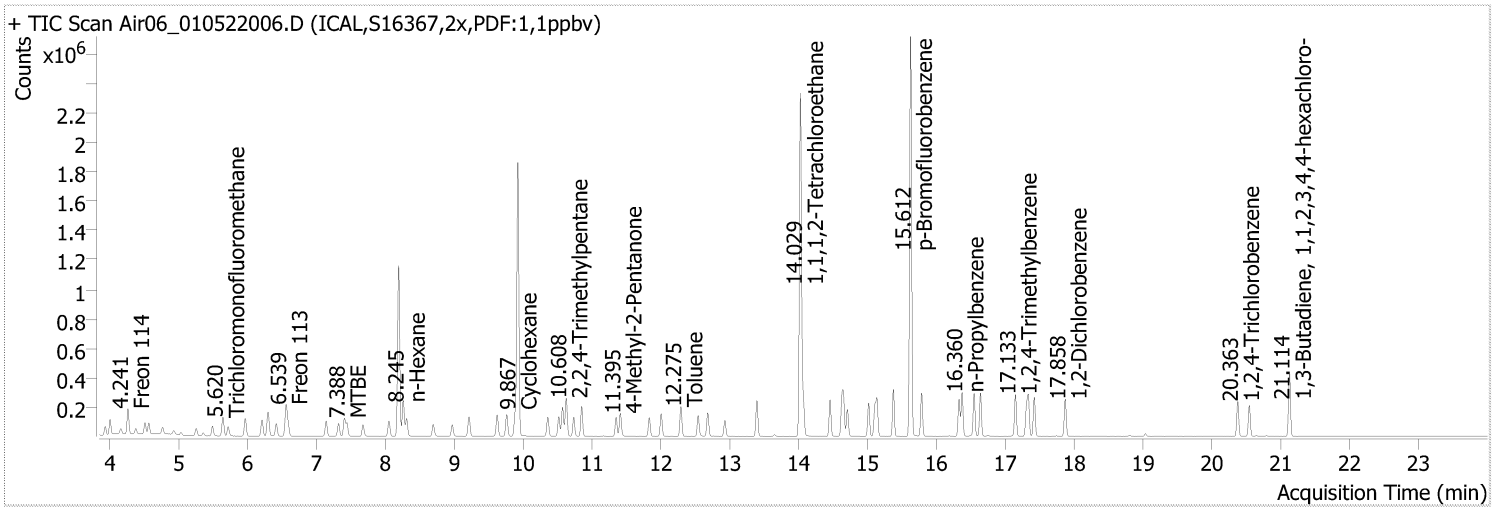


# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522006.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 6:11:57 PM |
| Sample Name | ICAL,S16367,2x,PDF:1,1ppbv | Instrument | Air-MS-06 |
| Vial | 6 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x200mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 220105_ICAL.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



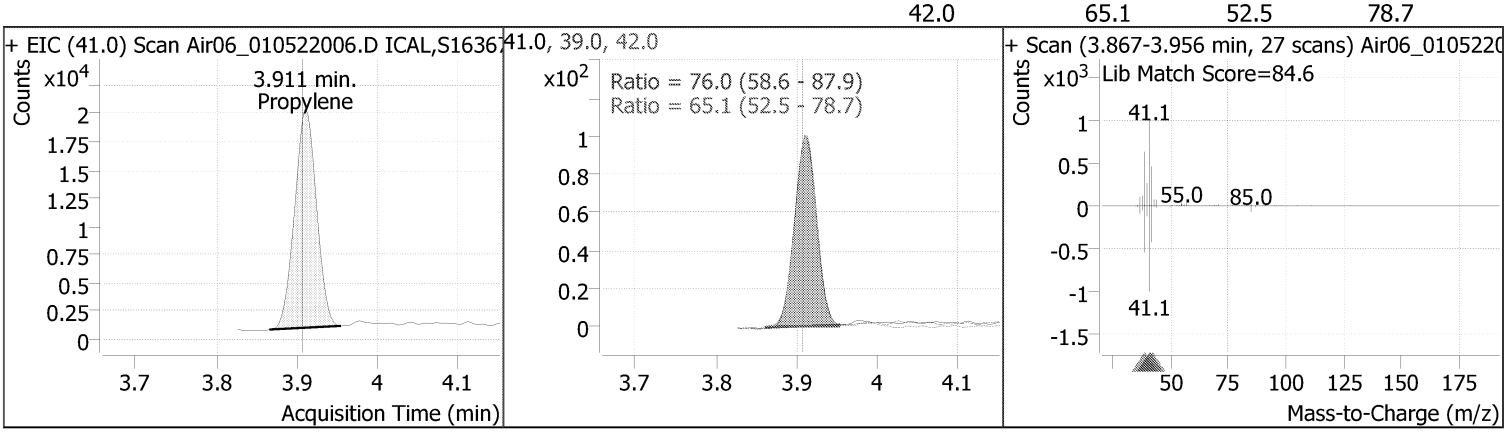

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.174 | 130.0 | 417650 | 10.0000 | nL/L | | -0.003 |
| M 1,4-Difluorobenzene | 9.906 | 114.0 | 1572580 | 10.0000 | nL/L | | -0.003 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 822714 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1109488 | 10.2552 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 102.55% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.911 | 41.0 | 36605 | 0.8897 | nL/L | | 98 |
| T Freon 12 | 3.983 | 85.0 | 92697 | 0.8516 | nL/L | | 99 |
| T Chloromethane | 4.138 | 50.0 | 43572 | 0.8519 | nL/L | | 99 |
| T Freon 114 | 4.241 | 135.0 | 68152 | 0.8875 | nL/L | | 95 |
| T Vinyl Chloride | 4.355 | 62.0 | 44958 | 0.8788 | nL/L | | 98 |
| T 1,3-Butadiene | 4.491 | 54.0 | 38020 | 0.8678 | nL/L | | 99 |
| T Butane | 4.546 | 43.0 | 74223 | 0.8729 | nL/L | | 96 |
| T Bromomethane | 4.746 | 96.0 | 33205 | 0.8816 | nL/L | | 96 |
| T Chloroethane | 4.908 | 64.0 | 22156 | 0.8786 | nL/L | | 98 |
| T Ethanol | 5.012 | 45.0 | 24653 | 0.9788 | nL/L | | 97 |
| T Vinyl bromide | 5.232 | 108.0 | 39049 | 0.8835 | nL/L | | 99 |
| T Acrolein | 5.335 | 56.0 | 19119 | 0.8605 | nL/L | | 99 |
| T Acetone | 5.468 | 58.0 | 26247 | 0.9999 | nL/L | | 96 |
| T Trichloromonofluoromethane | 5.620 | 101.0 | 114190 | 0.8901 | nL/L | | 100 |
| T Isopropanol (IPA) | 5.698 | 45.0 | 89469 | 0.9518 | nL/L | | 98 |
| T n-Pentane | 5.947 | 43.0 | 92034 | 0.8759 | nL/L | | 99 |
| T 1,1-Dichloroethene | 6.190 | 61.0 | 84177 | 0.8814 | nL/L | | 97 |
| T Tert-butyl alcohol (TBA) | 6.271 | 59.0 | 94501 | 0.8687 | nL/L | | 95 |
| T Methylene Chloride | 6.281 | 84.0 | 41438 | 0.8967 | nL/L | | 98 |
| T 3-Chloropropene | 6.394 | 76.0 | 18771 | 0.8812 | nL/L | | 97 |
| T Freon 113 | 6.539 | 101.0 | 91477 | 0.8873 | nL/L | | 99 |
| T Carbon Disulfide | 6.569 | 76.0 | 118846 | 0.8898 | nL/L | | 100 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 69753 | 0.8720 | nL/L | | 99 |
| T 1,1-Dichloroethane | 7.300 | 63.0 | 86137 | 0.8770 | nL/L | | 99 |
| T MTBE | 7.388 | 73.0 | 115499 | 0.8874 | nL/L | | 98 |
| T Vinyl Acetate | 7.423 | 43.0 | 147237 | 0.8934 | nL/L | m | 98 |
| T 2-Butanone | 7.656 | 43.0 | 111510 | 0.8783 | nL/L | | 97 |
| T cis-1,2-Dichloroethene | 8.032 | 61.0 | 70702 | 0.8739 | nL/L | | 98 |
| T Ethyl Acetate | 8.236 | 61.0 | 17664 | 0.8861 | nL/L | | 92 |
| T n-Hexane | 8.245 | 57.0 | 80442 | 0.8787 | nL/L | | 99 |
| T Chloroform | 8.291 | 83.0 | 90921 | 0.8808 | nL/L | | 99 |
| T Tetrahydrofuran | 8.676 | 72.0 | 19871 | 0.8727 | nL/L | | 95 |
| T 1,2-Dichloroethane | 8.951 | 62.0 | 66480 | 0.8795 | nL/L | | 100 |
| T 1,1,1-Trichloroethane | 9.197 | 97.0 | 87612 | 0.8774 | nL/L | | 98 |
| T Benzene | 9.605 | 78.0 | 130643 | 0.8779 | nL/L | | 99 |
| T Carbon Tetrachloride | 9.744 | 117.0 | 93214 | 0.8750 | nL/L | | 99 |
| T Cyclohexane | 9.867 | 84.0 | 54525 | 0.8770 | nL/L | # | 65 |
| T 1,2-Dichloropropane | 10.339 | 63.0 | 56568 | 0.8782 | nL/L | | 99 |
| T Methane, bromodichloro- | 10.501 | 83.0 | 91989 | 0.8752 | nL/L | | 99 |
| T 1,4-Dioxane | 10.563 | 88.0 | 28806 | 0.8570 | nL/L | # | 1 |
| T Trichloroethene | 10.553 | 132.0 | 57312 | 0.8746 | nL/L | | 97 |
| T 2,2,4-Trimethylpentane | 10.608 | 57.0 | 259774 | 0.8861 | nL/L | | 98 |
| T Methyl methacrylate | 10.718 | 69.0 | 47221 | 0.8636 | nL/L | | 98 |
| T n-Heptane | 10.831 | 71.0 | 45480 | 0.8981 | nL/L | | 94 |
| T cis-1,3-Dichloropropene | 11.333 | 110.0 | 17708 | 0.8660 | nL/L | # | 77 |
| T 4-Methyl-2-Pentanone | 11.395 | 58.0 | 49074 | 0.8686 | nL/L | | 98 |
| T trans-1,3-Dichloropropene | 11.815 | 110.0 | 17944 | 0.8559 | nL/L | | 93 |
| T 1,1,2-Trichloroethane | 11.987 | 97.0 | 53418 | 0.8708 | nL/L | | 99 |
| T Toluene | 12.275 | 91.0 | 165322 | 0.8869 | nL/L | | 99 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 23913344 | 1.8044 | nL/L | | 100 |
| T 2-Hexanone | 12.524 | 58.0 | 61096 | 0.8420 | nL/L | | 100 |
| T Dibromochloromethane | 12.663 | 129.0 | 96558 | 0.8671 | nL/L | | 99 |
| T 1,2-Dibromoethane | 12.913 | 108.9 | 82474 | 0.8739 | nL/L | | 99 |
| T Tetrachloroethene | 13.379 | 166.0 | 83610 | 0.8676 | nL/L | | 97 |
| T 1,1,1,2-Tetrachloroethane | 14.029 | 131.0 | 64311 | 0.9058 | nL/L | # | 93 |
| T Benzene, chloro- | 14.055 | 112.0 | 127105 | 0.9022 | nL/L | # | 92 |
| T Ethylbenzene | 14.440 | 91.0 | 202551 | 0.9049 | nL/L | | 98 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 17291598 | 1.7864 | nL/L | | 100 |
| T m,p-Xylenes | 14.628 | 91.0 | 328055 | 1.8224 | nL/L | | 97 |
| T Bromoform | 14.693 | 173.0 | 109998 | 0.8922 | nL/L | | 99 |
| T Styrene | 15.000 | 104.0 | 127813 | 0.8960 | nL/L | | 98 |
| T 1,1,2,2-Tetrachloroethane | 15.091 | 83.0 | 121024 | 0.8897 | nL/L | | 99 |
| T o-Xylene | 15.123 | 91.0 | 167933 | 0.9074 | nL/L | | 98 |
| T n-Nonane | 15.363 | 85.0 | 38686 | 0.9048 | nL/L | | 99 |
| T Isopropylbenzene | 15.771 | 105.0 | 230740 | 0.9095 | nL/L | | 98 |
| T 2-Chlorotoluene | 16.314 | 126.0 | 57995 | 0.8975 | nL/L | | 96 |
| T n-Propylbenzene | 16.360 | 120.0 | 63499 | 0.8958 | nL/L | | 87 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 226925 | 0.9039 | nL/L | | 97 |
| T 1,3,5-Trimethylbenzene | 16.625 | 105.0 | 193618 | 0.8909 | nL/L | | 96 |
| T 1,2,4-Trimethylbenzene | 17.133 | 105.0 | 193287 | 0.8954 | nL/L | | 97 |
| T Benzyl chloride | 17.295 | 91.0 | 160352 | 0.8448 | nL/L | | 98 |
| T 1,3-Dichlorobenzene | 17.321 | 146.0 | 131839 | 0.8904 | nL/L | | 98 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 133698 | 0.8930 | nL/L | | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 128399 | 0.8891 | nL/L | | 99 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 97400 | 0.8185 | nL/L | | 99 |
| T Naphthalene | 20.532 | 128.0 | 204342 | 0.8296 | nL/L | | 98 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.114 | 225.0 | 112121 | 0.8768 | nL/L | | 100 |

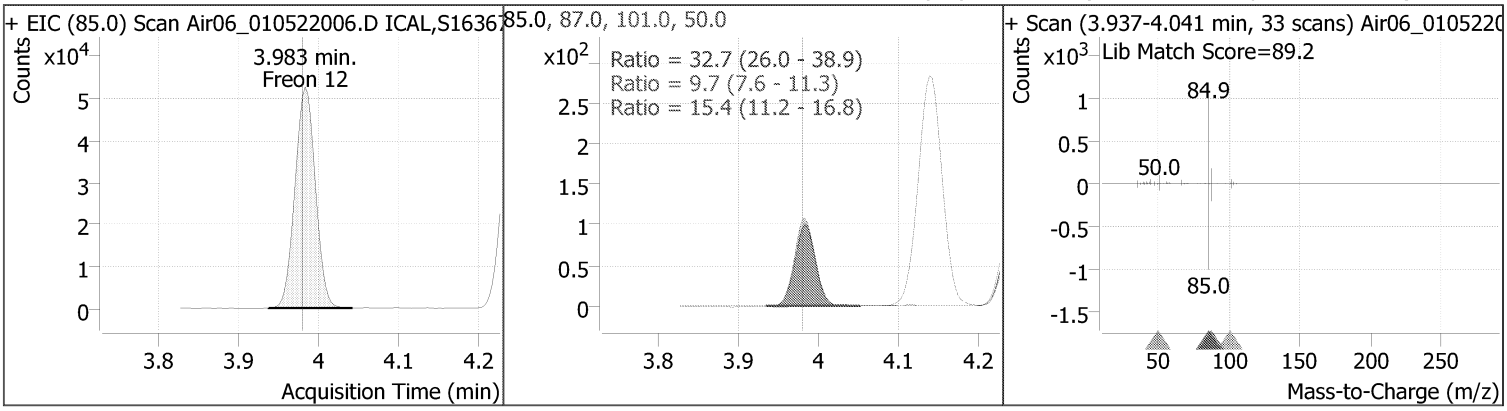
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

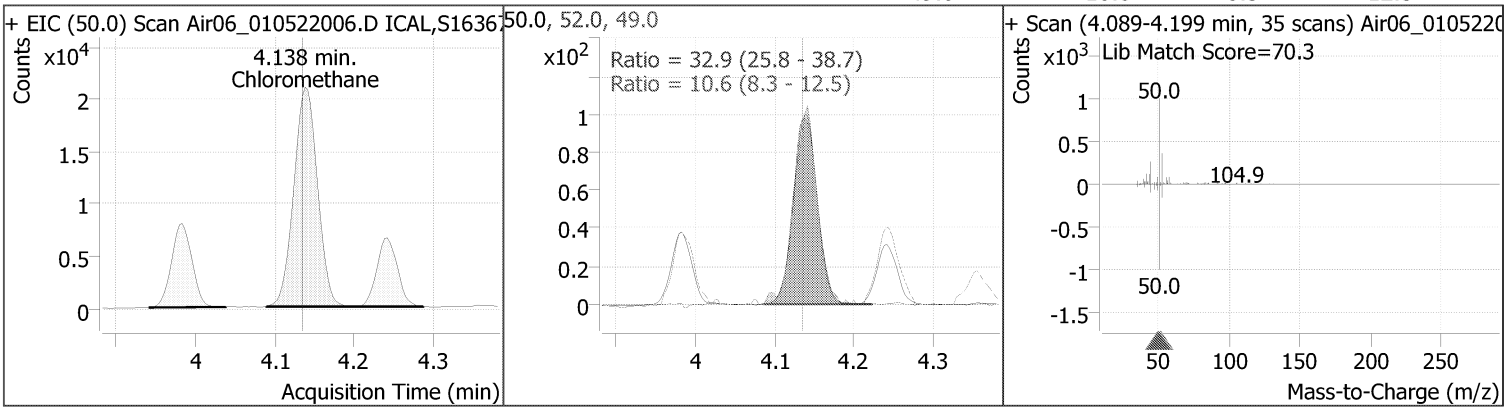
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 0.8897 | 3.91 | 0.00 | 36605 | 39.0 | 76.0 | 58.6 | 87.9 |
| | | | | | 42.0 | 65.1 | 52.5 | 78.7 |



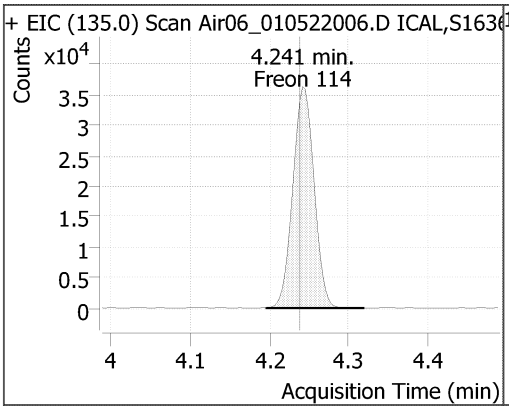

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 0.8516 | 3.98 | 0.00 | 92697 | 87.0 | 32.7 | 26.0 | 38.9 |
| | | | | | 50.0 | 15.4 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.7 | 7.6 | 11.3 |

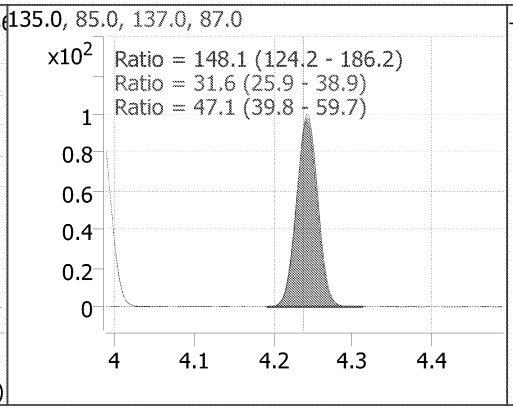


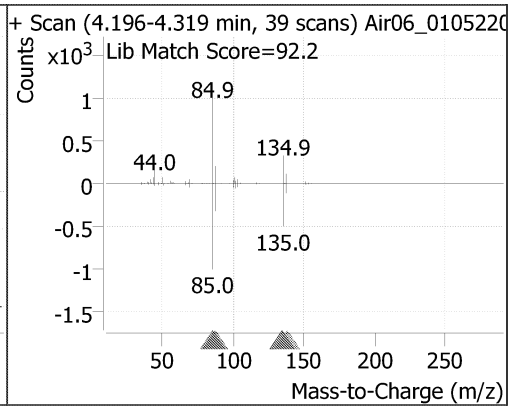

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.8519 | 4.14 | 0.00 | 43572 | 52.0 | 32.9 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.6 | 8.3 | 12.5 |



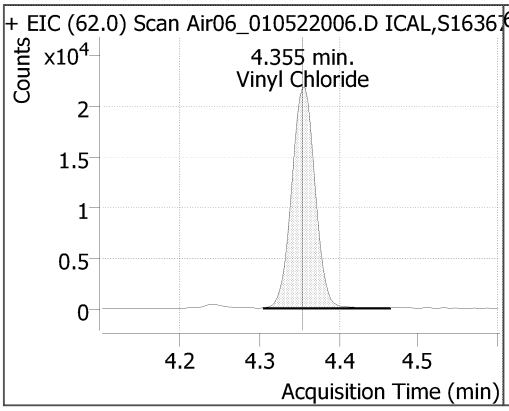
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 0.8875 | 4.24 | 0.00 | 68152 | 85.0 | 148.1 | 124.2 | 186.2 |
| | | | | | 87.0 | 47.1 | 39.8 | 59.7 |
| | | | | | 137.0 | 31.6 | 25.9 | 38.9 |

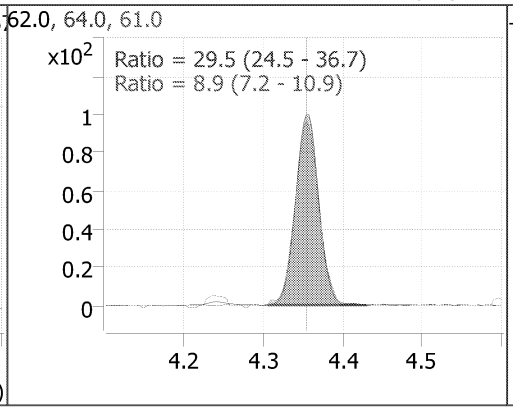


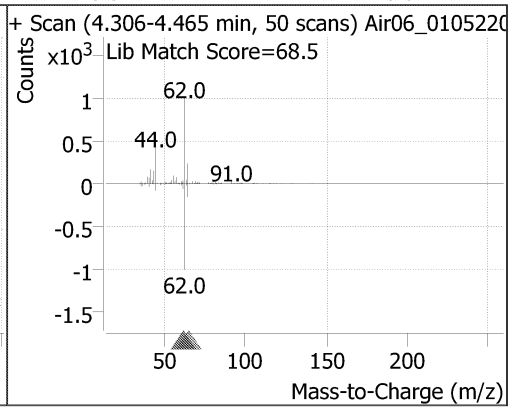



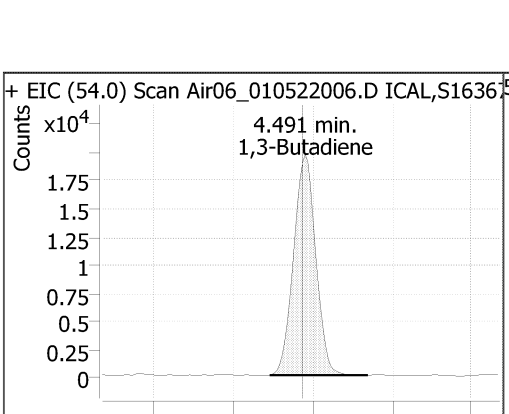

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.8788 | 4.35 | 0.00 | 44958 | 64.0 | 29.5 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.9 | 7.2 | 10.9 |

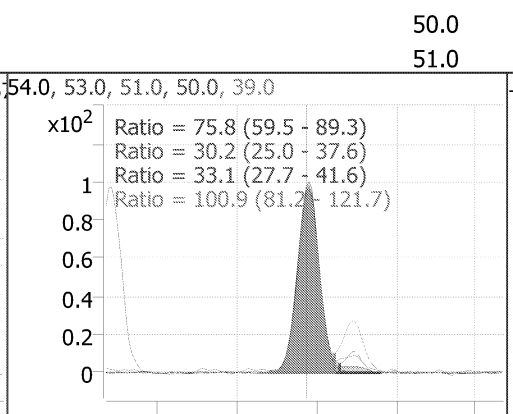


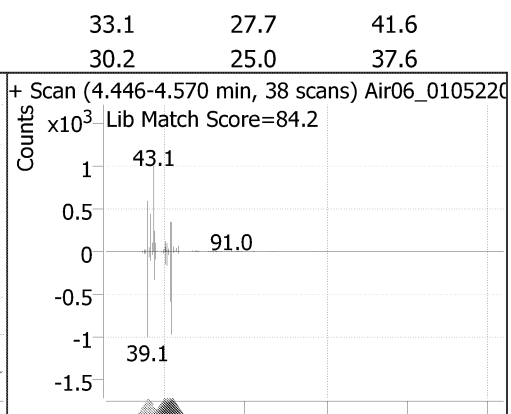



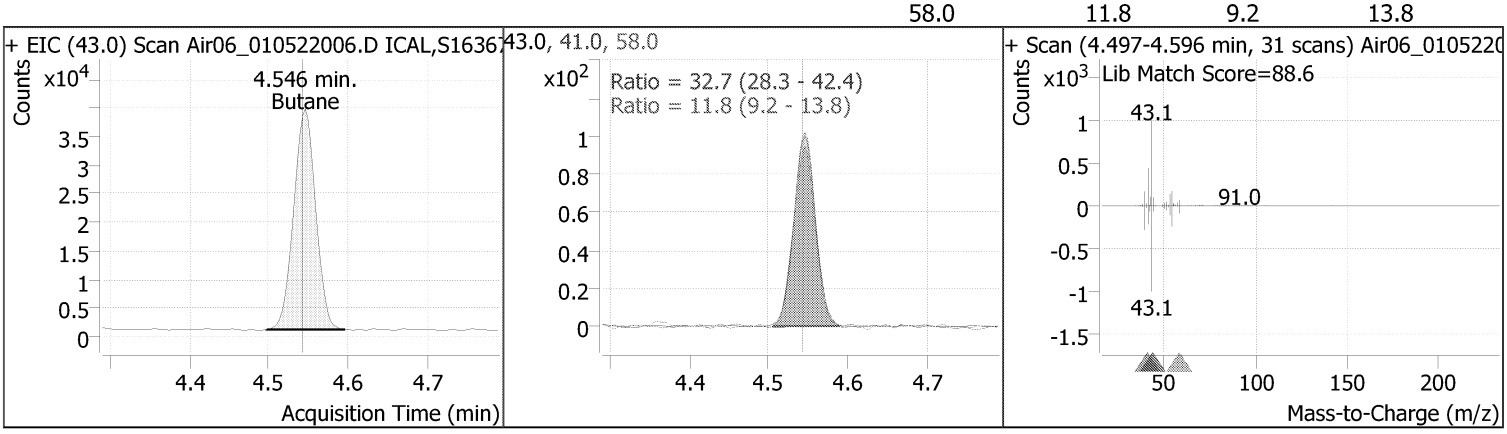

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 0.8678 | 4.49 | 0.00 | 38020 | 39.0 | 100.9 | 81.2 | 121.7 |
| | | | | | 53.0 | 75.8 | 59.5 | 89.3 |
| | | | | | 50.0 | 33.1 | 27.7 | 41.6 |
| | | | | | 51.0 | 30.2 | 25.0 | 37.6 |



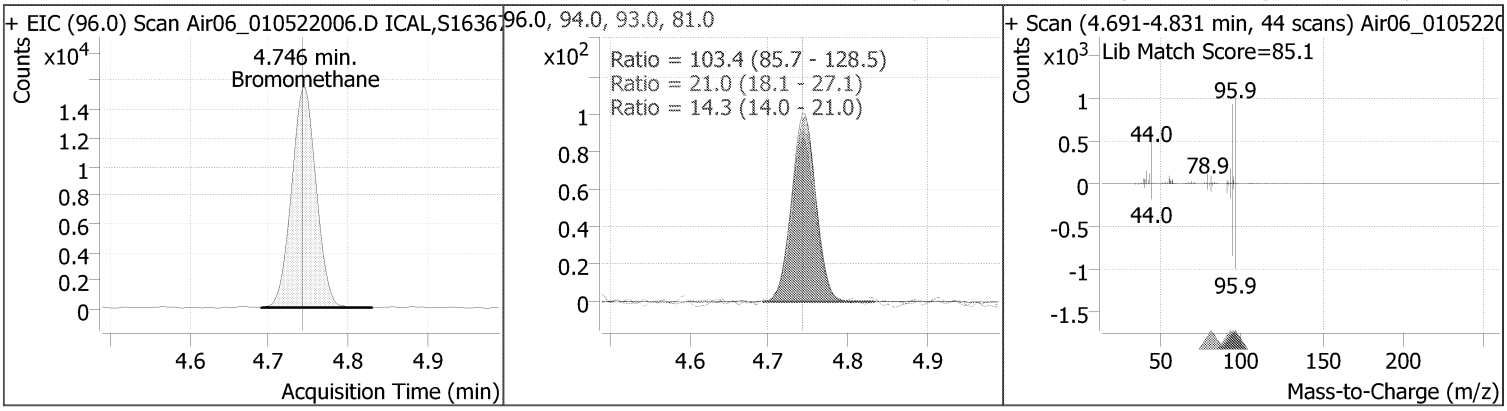



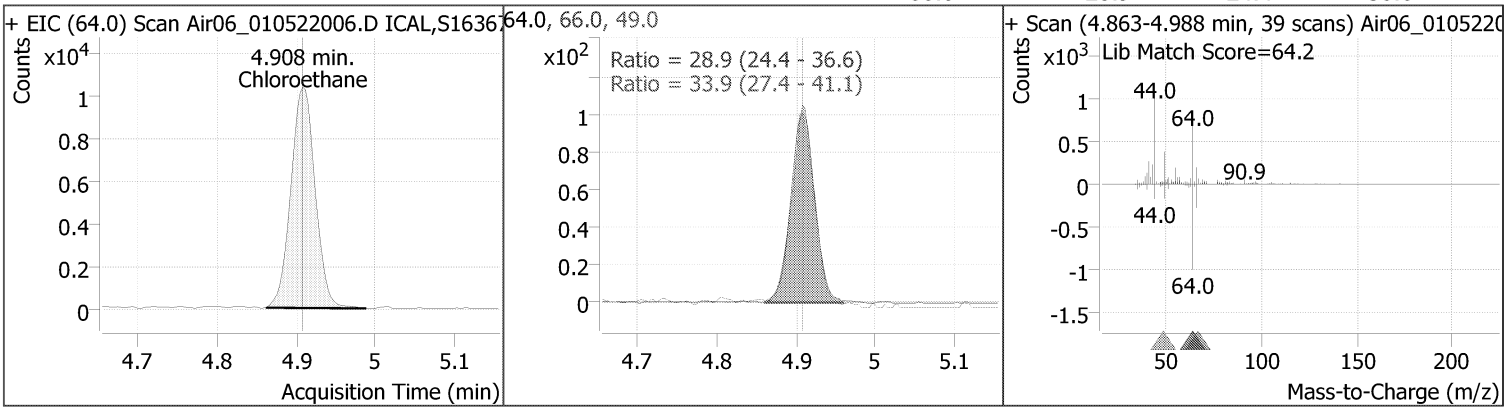
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 0.8729 | 4.55 | 0.00 | 74223 | 41.0 | 32.7 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.8 | 9.2 | 13.8 |



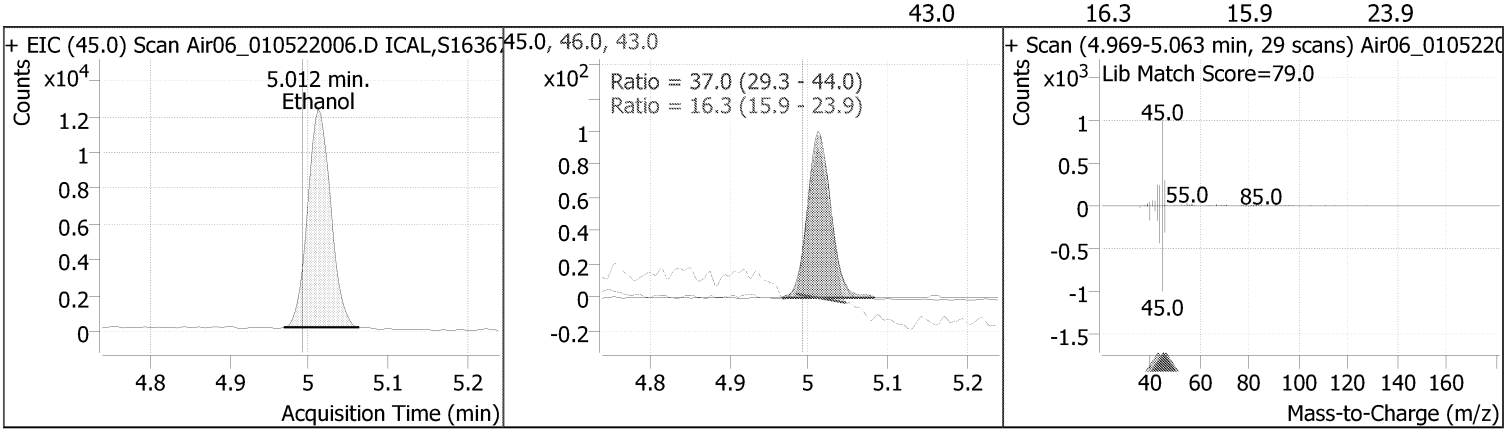

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 0.8816 | 4.75 | 0.00 | 33205 | 94.0 | 103.4 | 85.7 | 128.5 |
| | | | | | 93.0 | 21.0 | 18.1 | 27.1 |
| | | | | | 81.0 | 14.3 | 14.0 | 21.0 |



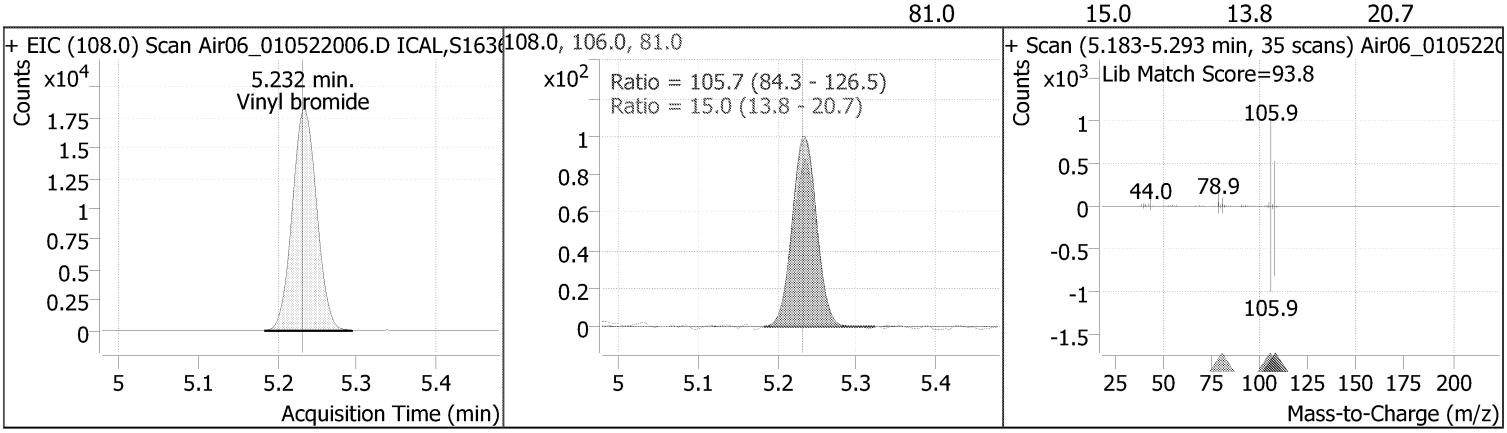

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 0.8786 | 4.91 | 0.00 | 22156 | 49.0 | 33.9 | 27.4 | 41.1 |
| | | | | | 66.0 | 28.9 | 24.4 | 36.6 |



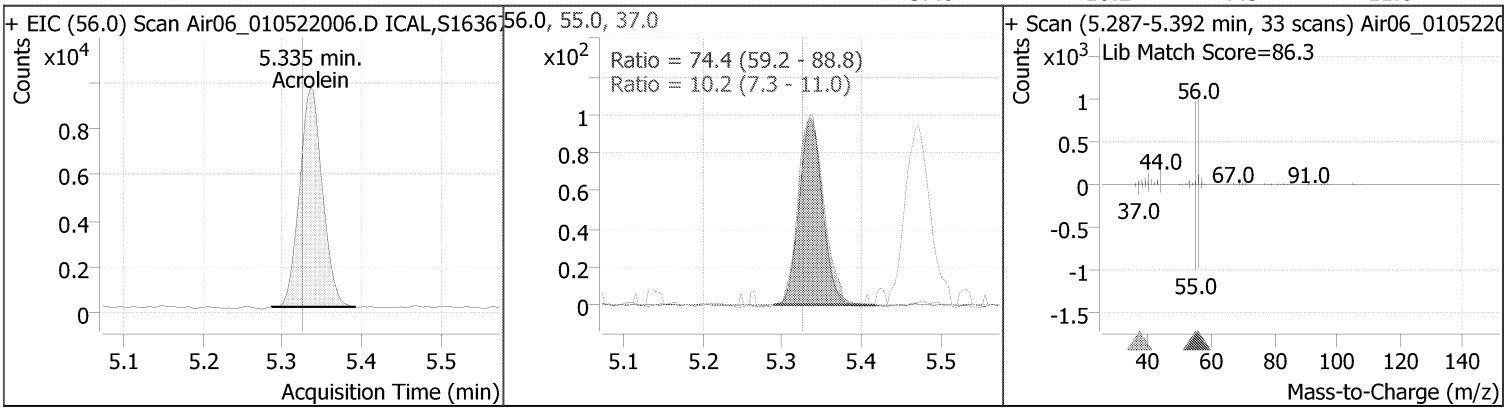
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 0.9788 | 5.01 | 0.02 | 24653 | 46.0 | 37.0 | 29.3 | 44.0 |
| | | | | | 43.0 | 16.3 | 15.9 | 23.9 |



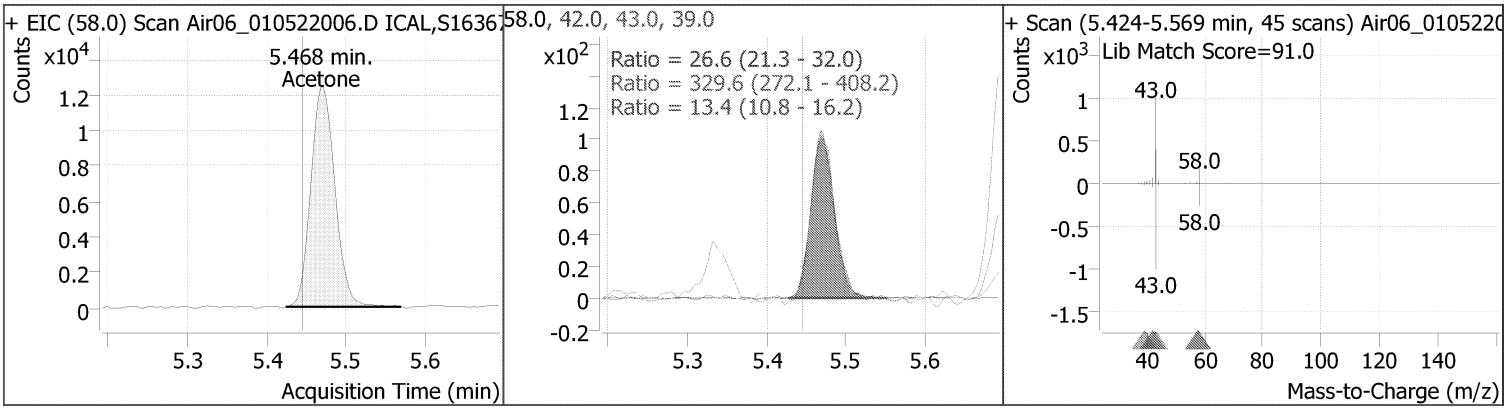

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 0.8835 | 5.23 | 0.00 | 39049 | 106.0 | 105.7 | 84.3 | 126.5 |
| | | | | | 81.0 | 15.0 | 13.8 | 20.7 |



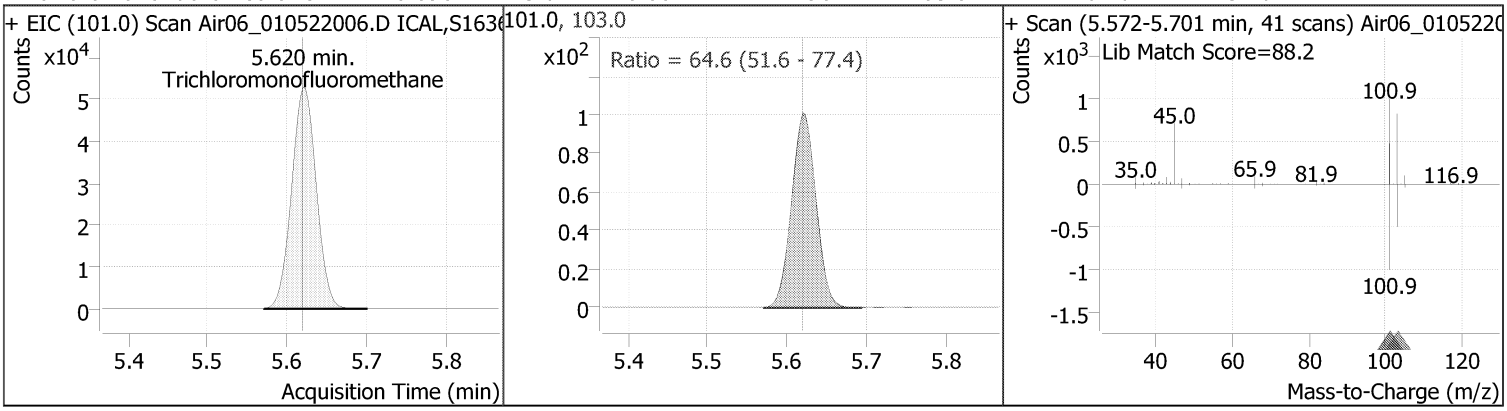

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 0.8605 | 5.34 | 0.01 | 19119 | 55.0 | 74.4 | 59.2 | 88.8 |
| | | | | | 37.0 | 10.2 | 7.3 | 11.0 |



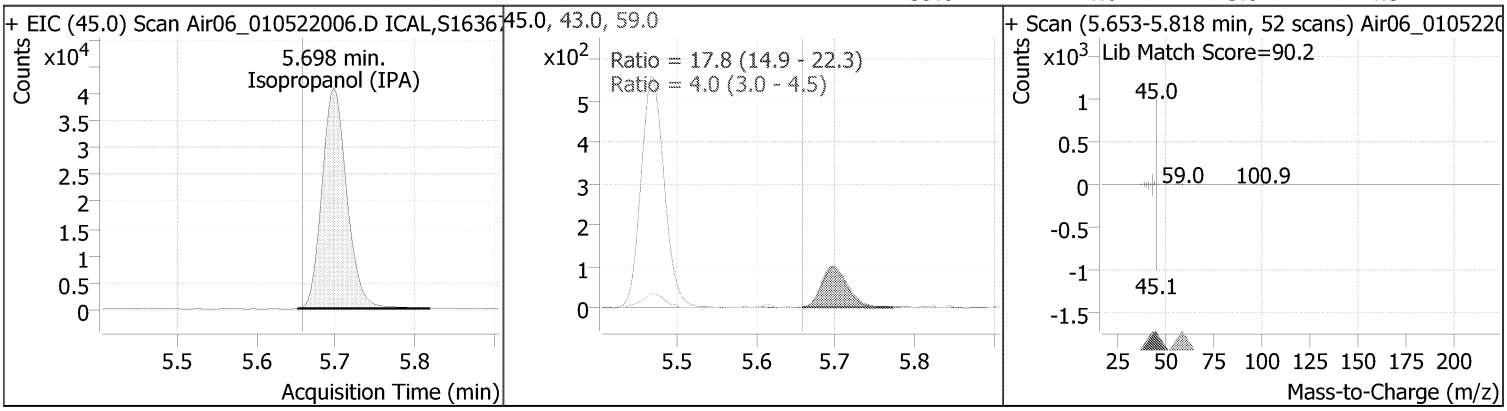
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 0.9999 | 5.47 | 0.02 | 26247 | 43.0 | 329.6 | 272.1 | 408.2 |
| | | | | | 42.0 | 26.6 | 21.3 | 32.0 |
| | | | | | 39.0 | 13.4 | 10.8 | 16.2 |



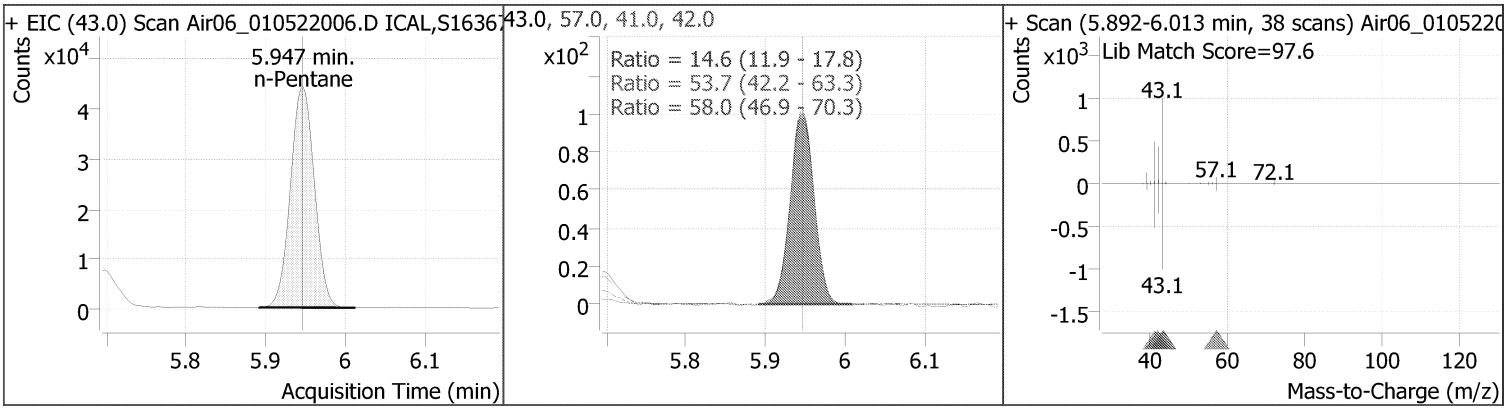

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 0.8901 | 5.62 | 0.00 | 114190 | 103.0 | 64.6 | 51.6 | 77.4 |



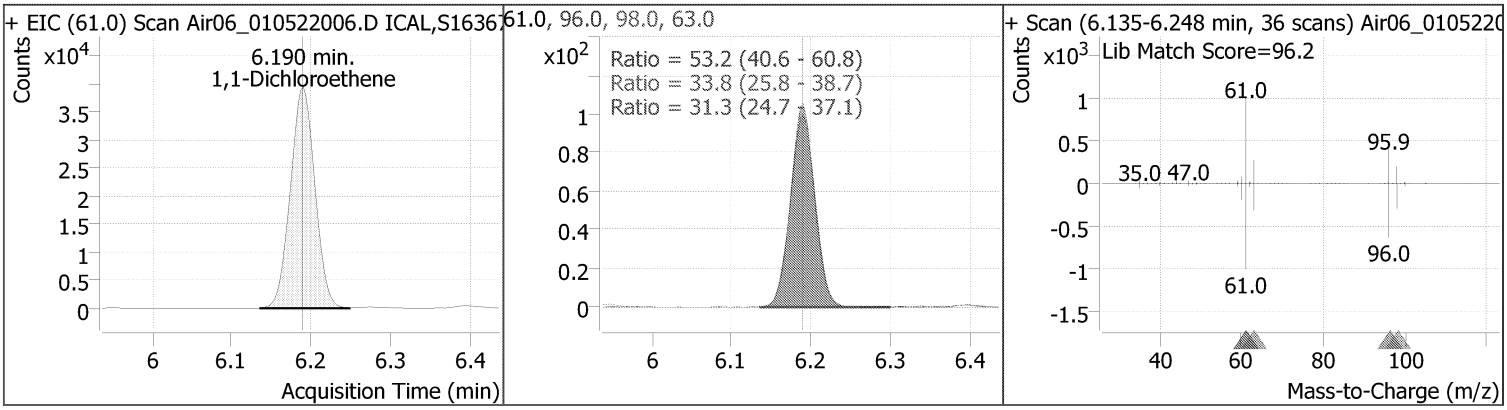

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 0.9518 | 5.70 | 0.04 | 89469 | 43.0 | 17.8 | 14.9 | 22.3 |
| | | | | | 59.0 | 4.0 | 3.0 | 4.5 |



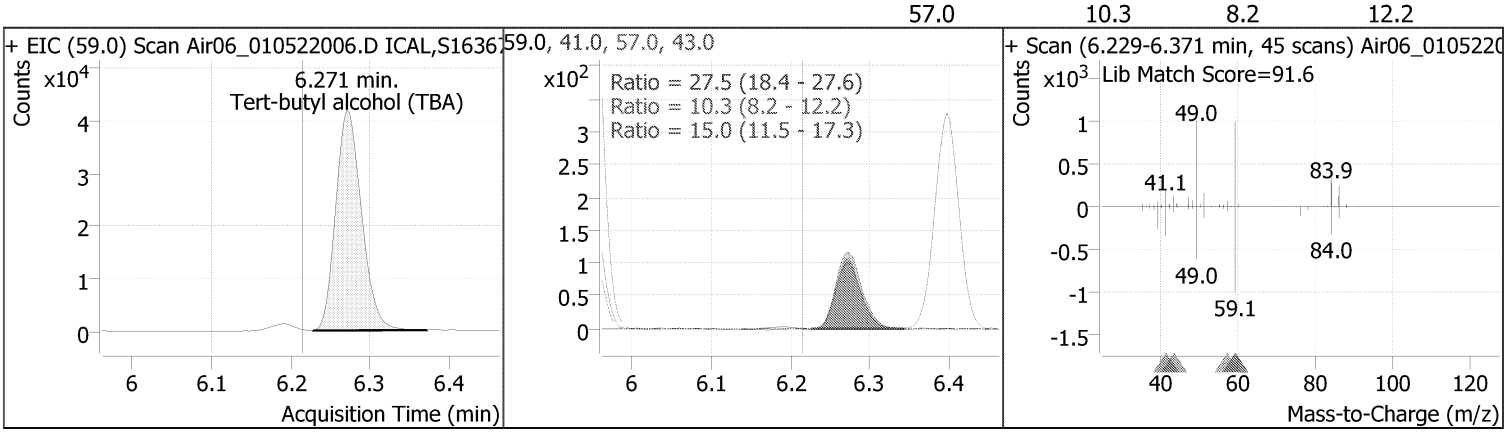
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 0.8759 | 5.95 | 0.00 | 92034 | 42.0 | 58.0 | 46.9 | 70.3 |
| | | | | | 41.0 | 53.7 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.6 | 11.9 | 17.8 |



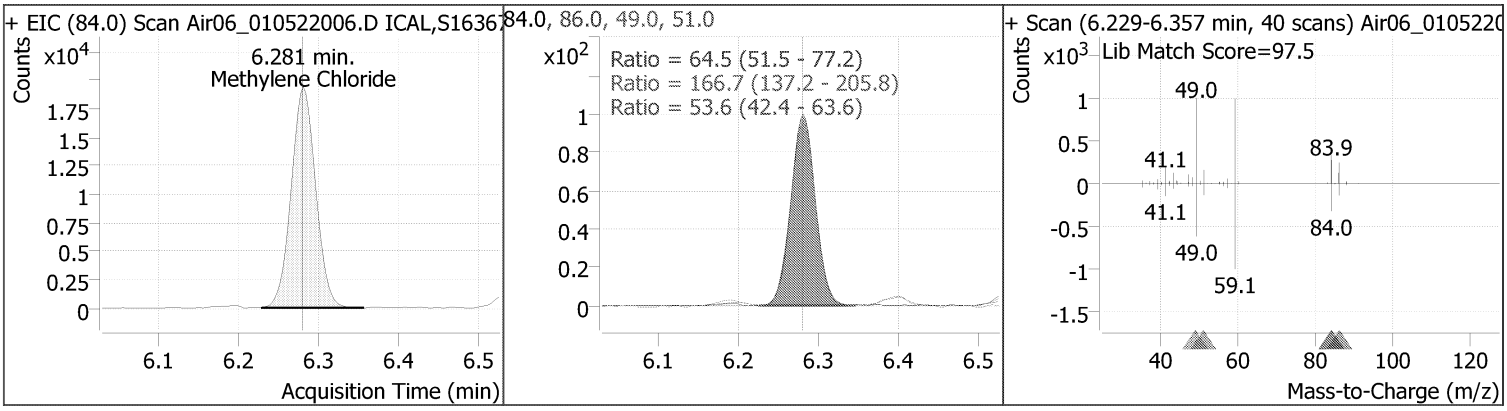

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.8814 | 6.19 | 0.00 | 84177 | 96.0 | 53.2 | 40.6 | 60.8 |
| | | | | | 98.0 | 33.8 | 25.8 | 38.7 |
| | | | | | 63.0 | 31.3 | 24.7 | 37.1 |



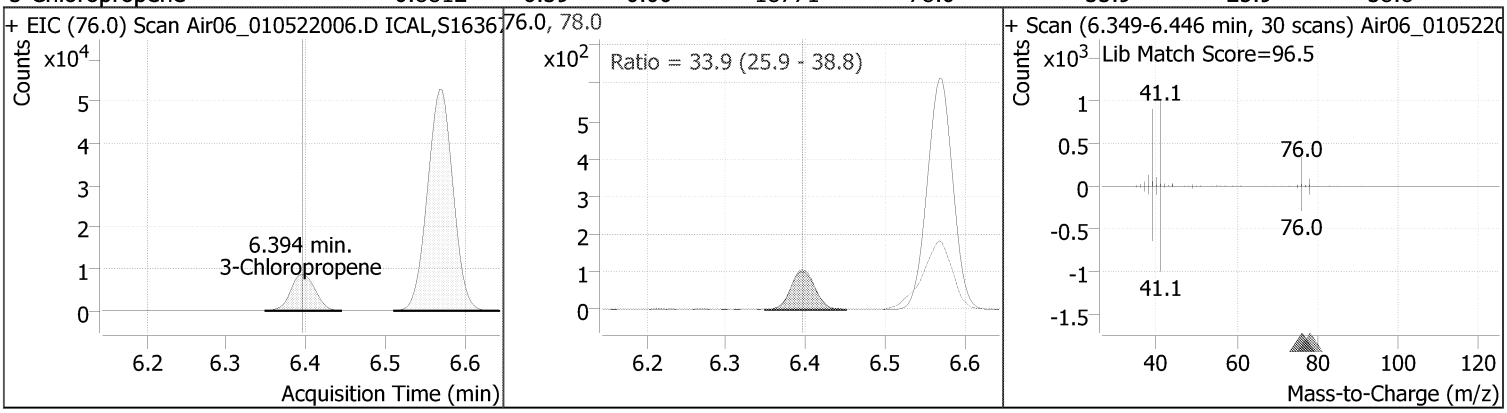

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 0.8687 | 6.27 | 0.06 | 94501 | 41.0 | 27.5 | 18.4 | 27.6 |
| | | | | | 43.0 | 15.0 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.3 | 8.2 | 12.2 |



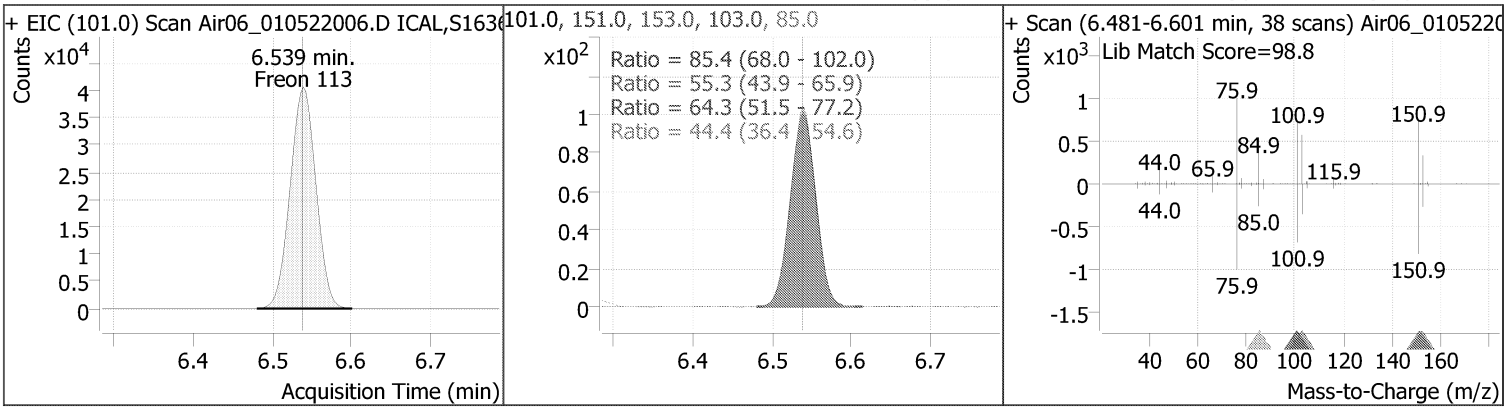
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.8967 | 6.28 | 0.00 | 41438 | 49.0 | 166.7 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.5 | 51.5 | 77.2 |
| | | | | | 51.0 | 53.6 | 42.4 | 63.6 |



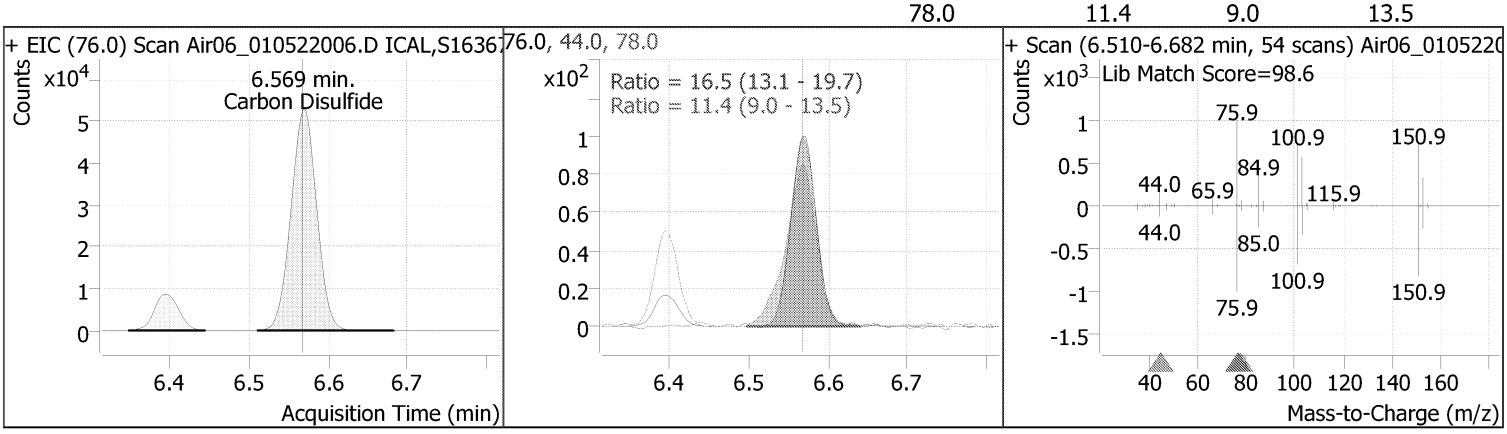

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 0.8812 | 6.39 | 0.00 | 18771 | 78.0 | 33.9 | 25.9 | 38.8 |



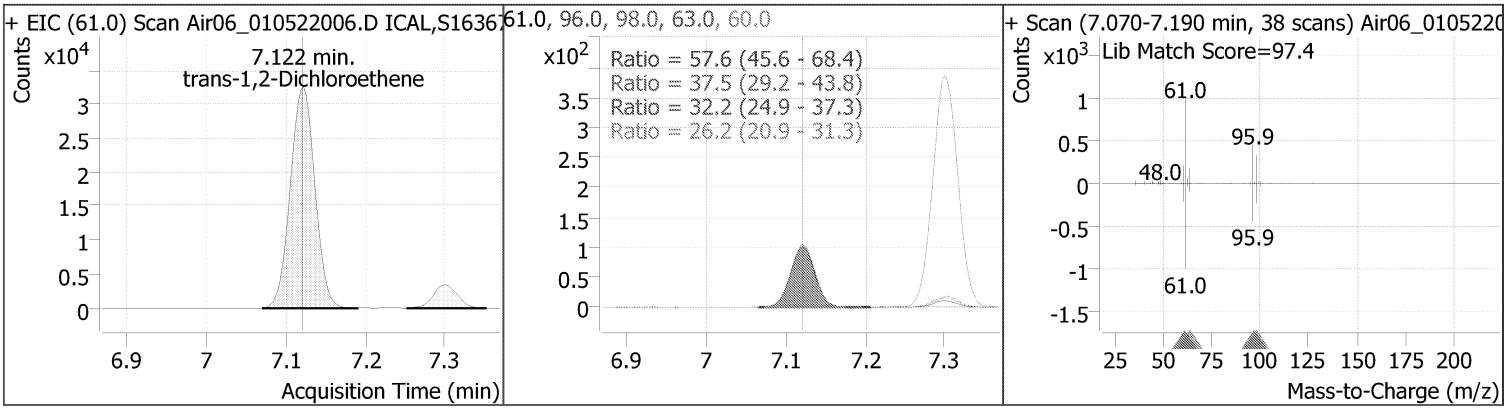

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 0.8873 | 6.54 | 0.00 | 91477 | 151.0 | 85.4 | 68.0 | 102.0 |
| | | | | | 103.0 | 64.3 | 51.5 | 77.2 |
| | | | | | 153.0 | 55.3 | 43.9 | 65.9 |
| | | | | | 85.0 | 44.4 | 36.4 | 54.6 |



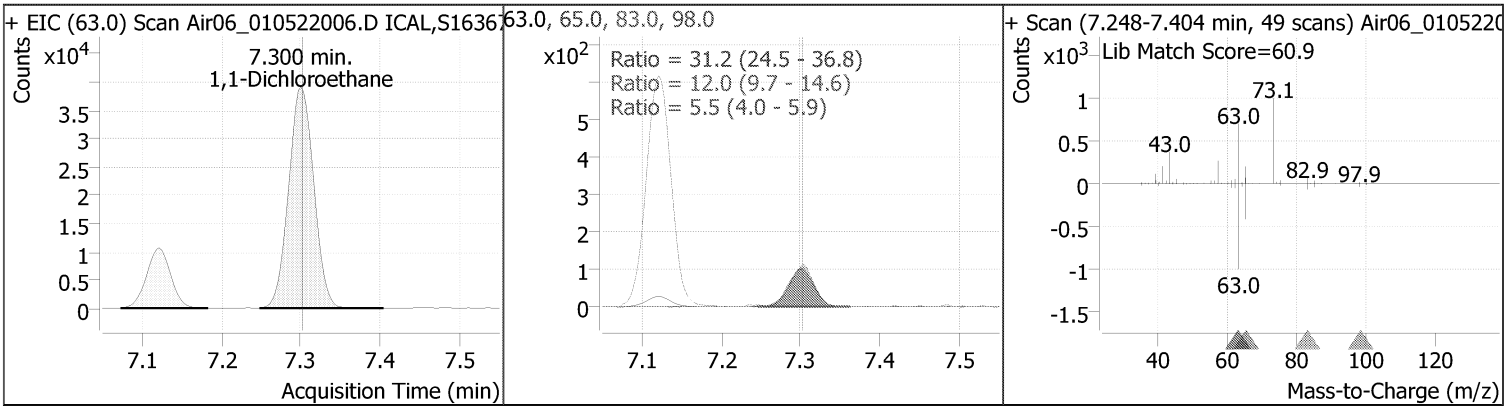
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 0.8898 | 6.57 | 0.00 | 118846 | 44.0 | 16.5 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.4 | 9.0 | 13.5 |



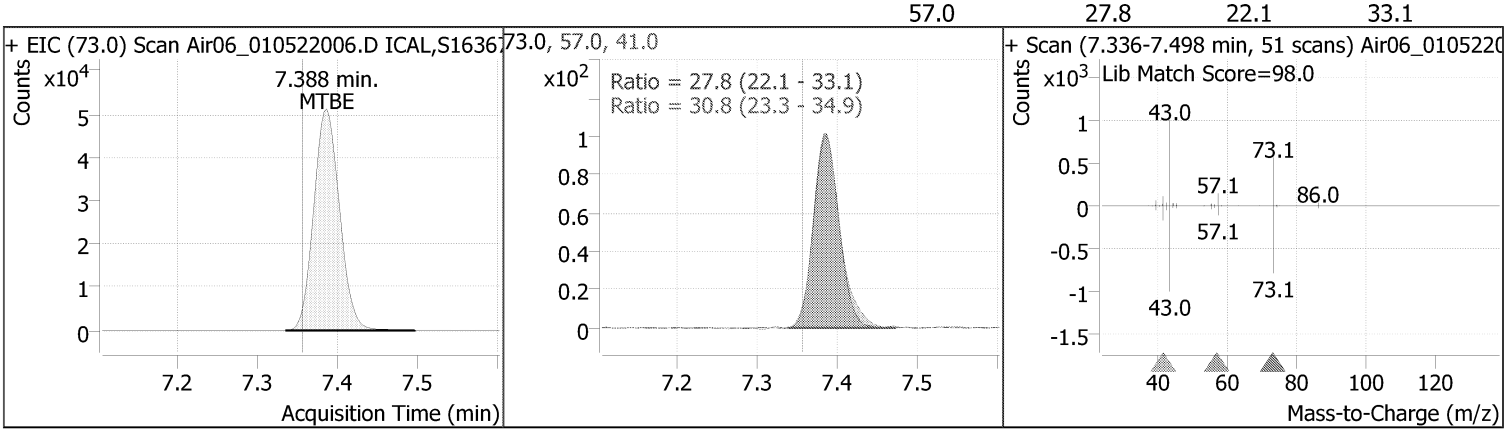

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 0.8720 | 7.12 | 0.00 | 69753 | 96.0 | 57.6 | 45.6 | 68.4 |
| | | | | | 98.0 | 37.5 | 29.2 | 43.8 |
| | | | | | 63.0 | 32.2 | 24.9 | 37.3 |
| | | | | | 60.0 | 26.2 | 20.9 | 31.3 |



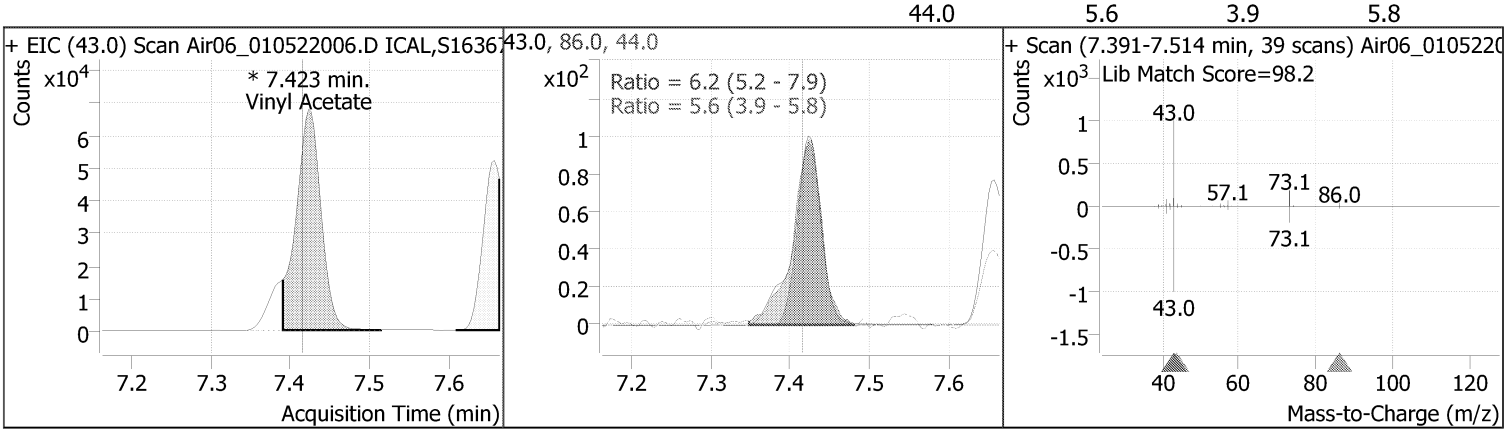

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 0.8770 | 7.30 | 0.00 | 86137 | 65.0 | 31.2 | 24.5 | 36.8 |
| | | | | | 83.0 | 12.0 | 9.7 | 14.6 |
| | | | | | 98.0 | 5.5 | 4.0 | 5.9 |



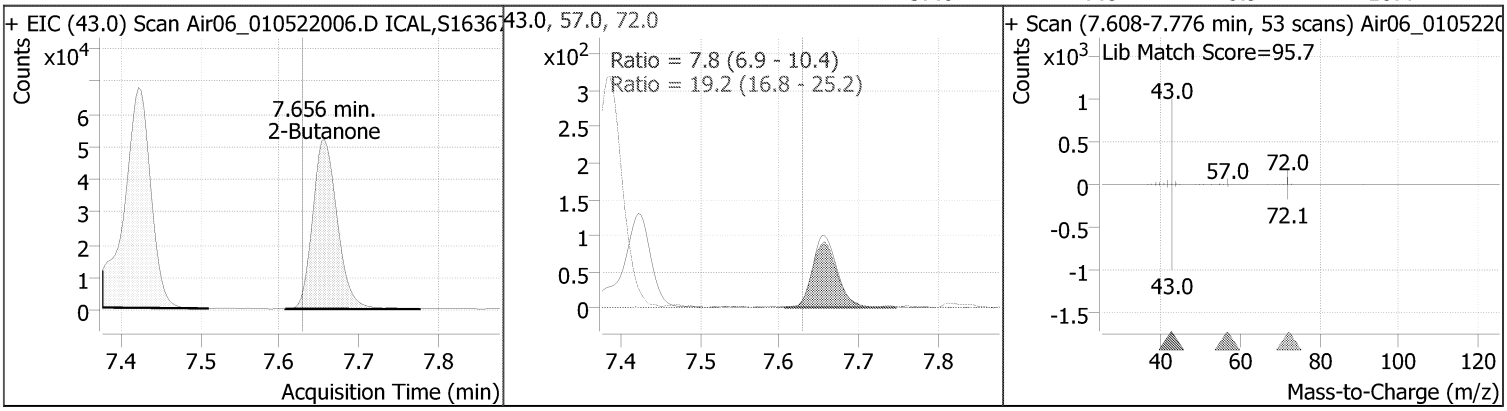
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 0.8874 | 7.39 | 0.03 | 115499 | 41.0 | 30.8 | 23.3 | 34.9 |
| | | | | | 57.0 | 27.8 | 22.1 | 33.1 |



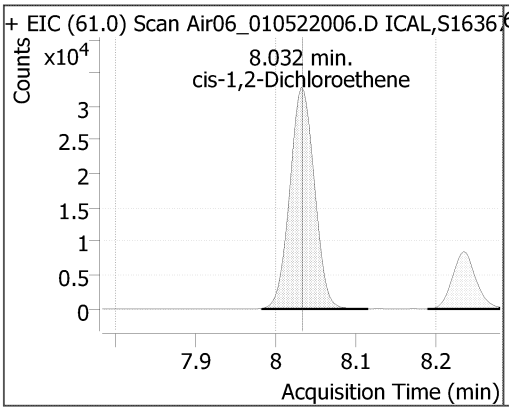

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 0.8934 | 7.42 | 0.01 | 147237 (m) | 86.0 | 6.2 | 5.2 | 7.9 |
| | | | | | 44.0 | 5.6 | 3.9 | 5.8 |

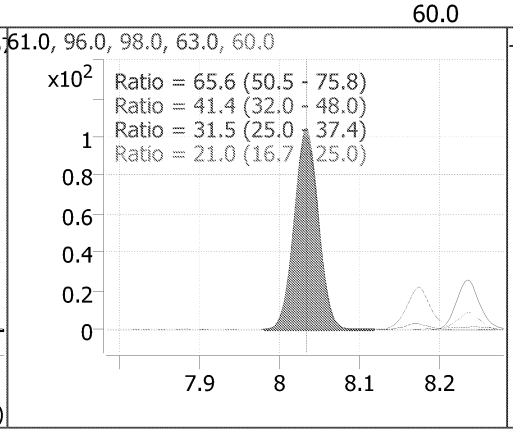


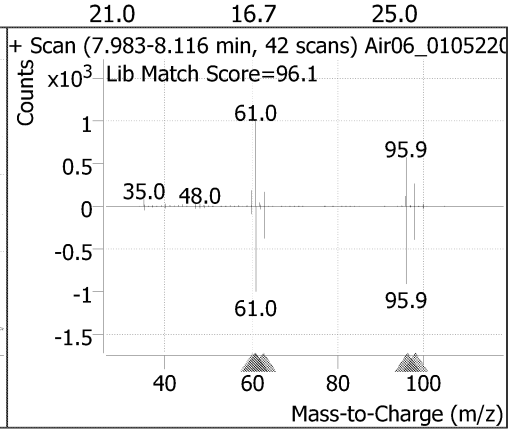

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 0.8783 | 7.66 | 0.03 | 111510 | 72.0 | 19.2 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.8 | 6.9 | 10.4 |



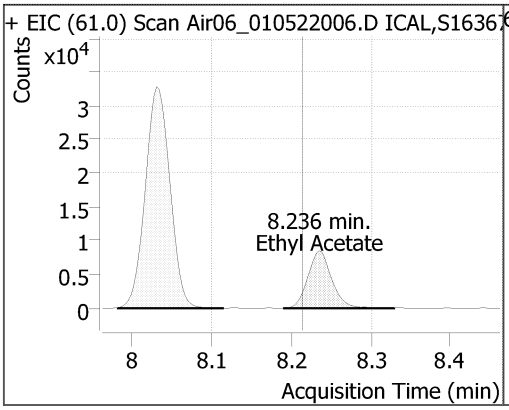
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.8739 | 8.03 | 0.00 | 70702 | 96.0 | 65.6 | 50.5 | 75.8 |
| | | | | | 98.0 | 41.4 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.5 | 25.0 | 37.4 |
| | | | | | 60.0 | 21.0 | 16.7 | 25.0 |

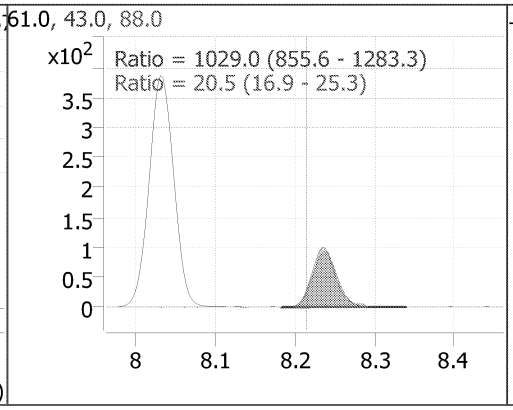


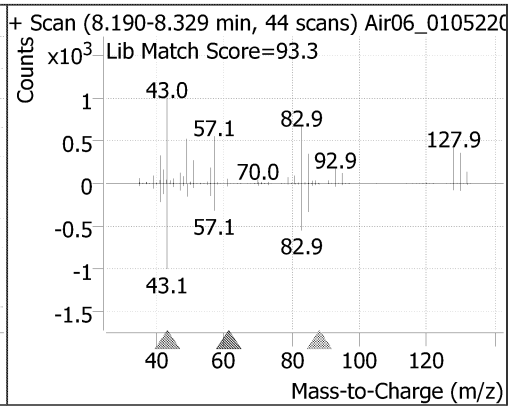



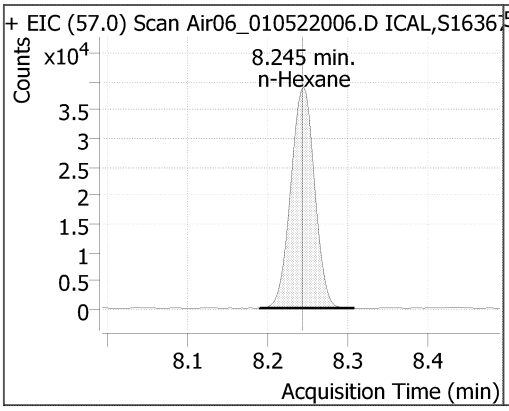

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 0.8861 | 8.24 | 0.02 | 17664 | 43.0 | 1029.0 | 855.6 | 1283.3 |
| | | | | | 88.0 | 20.5 | 16.9 | 25.3 |

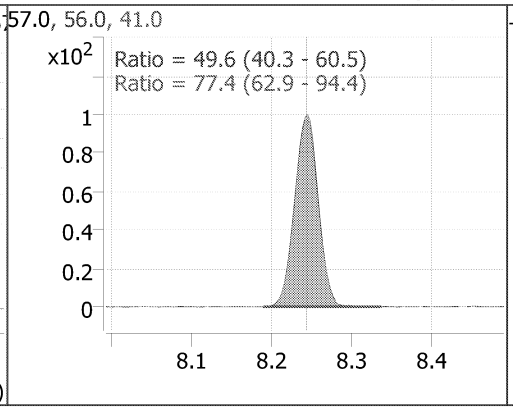


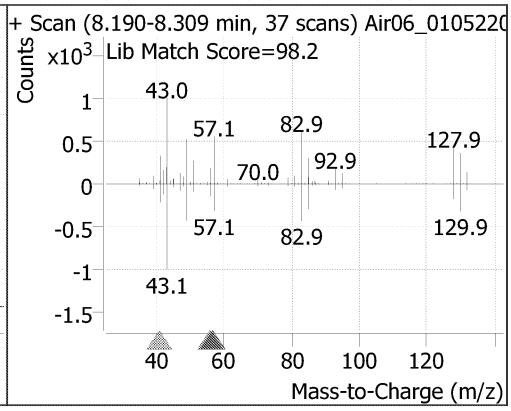



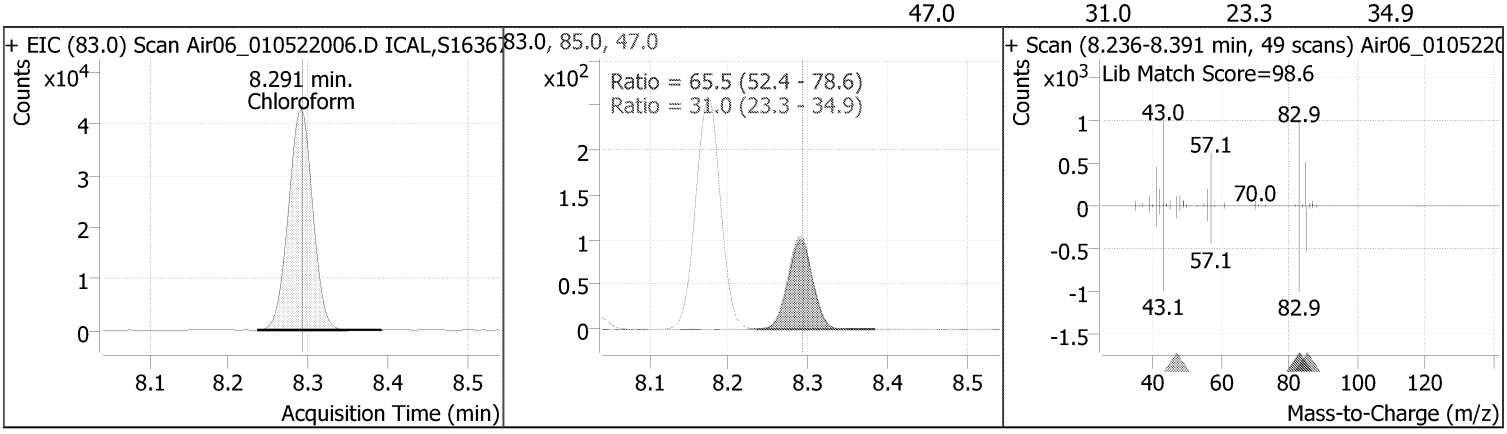

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 0.8787 | 8.25 | 0.00 | 80442 | 41.0 | 77.4 | 62.9 | 94.4 |
| | | | | | 56.0 | 49.6 | 40.3 | 60.5 |



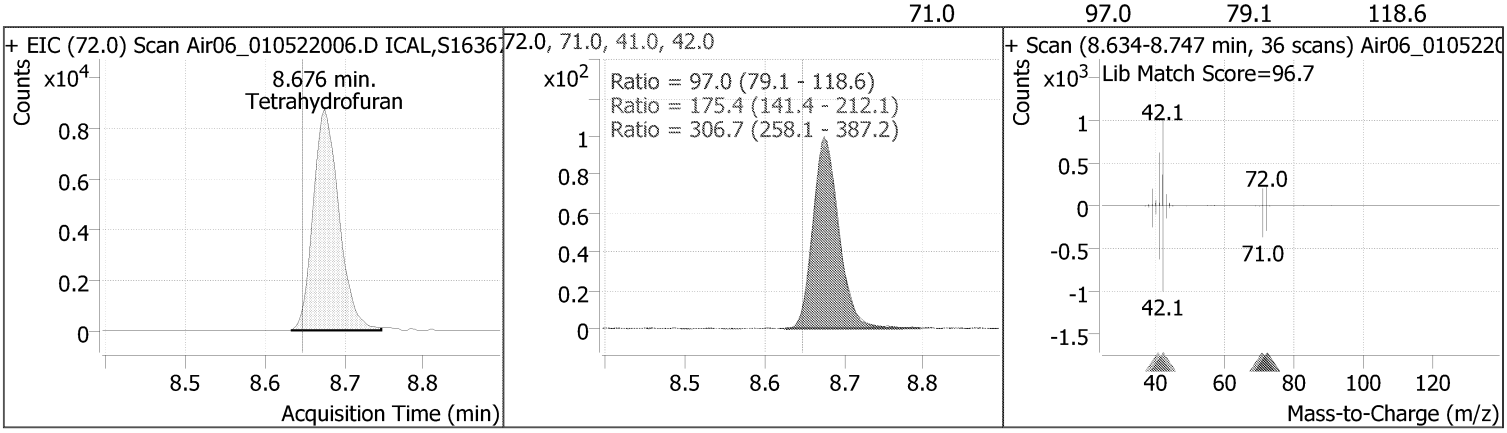



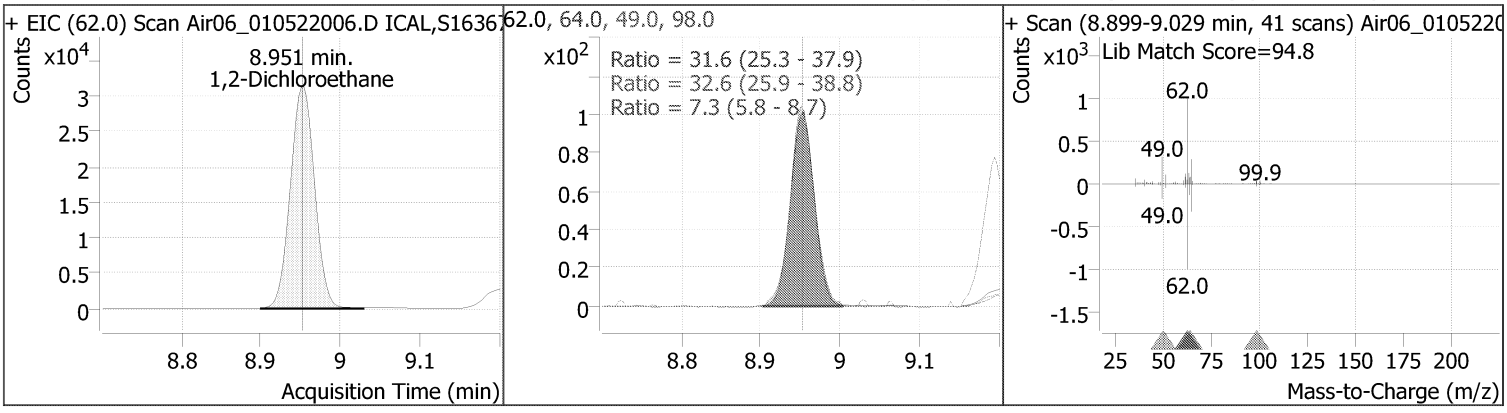
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.8808 | 8.29 | 0.00 | 90921 | 85.0 | 65.5 | 52.4 | 78.6 |
| | | | | | 47.0 | 31.0 | 23.3 | 34.9 |



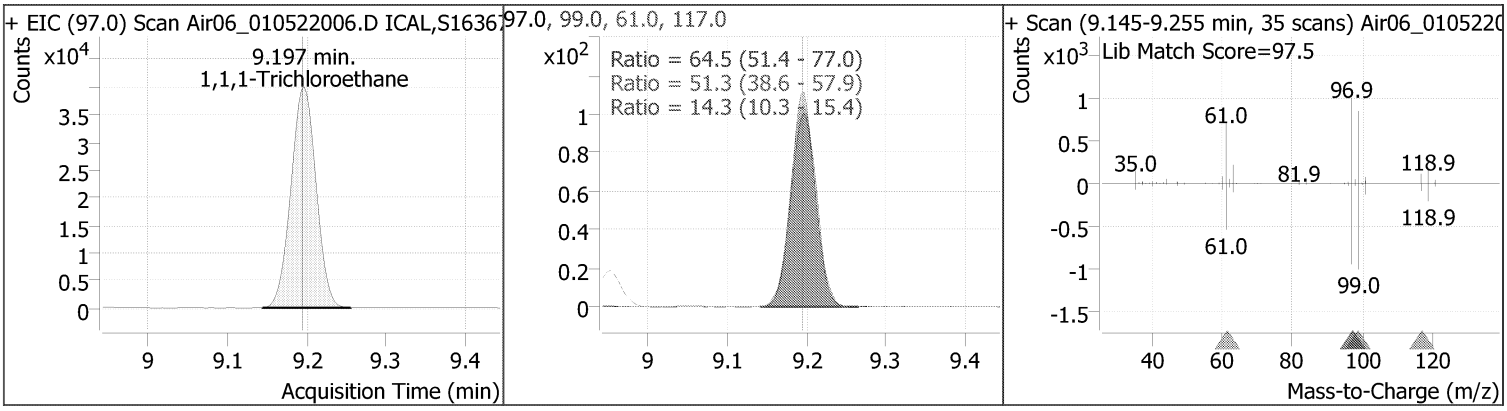

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 0.8727 | 8.68 | 0.03 | 19871 | 42.0 | 306.7 | 258.1 | 387.2 |
| | | | | | 41.0 | 175.4 | 141.4 | 212.1 |
| | | | | | 71.0 | 97.0 | 79.1 | 118.6 |



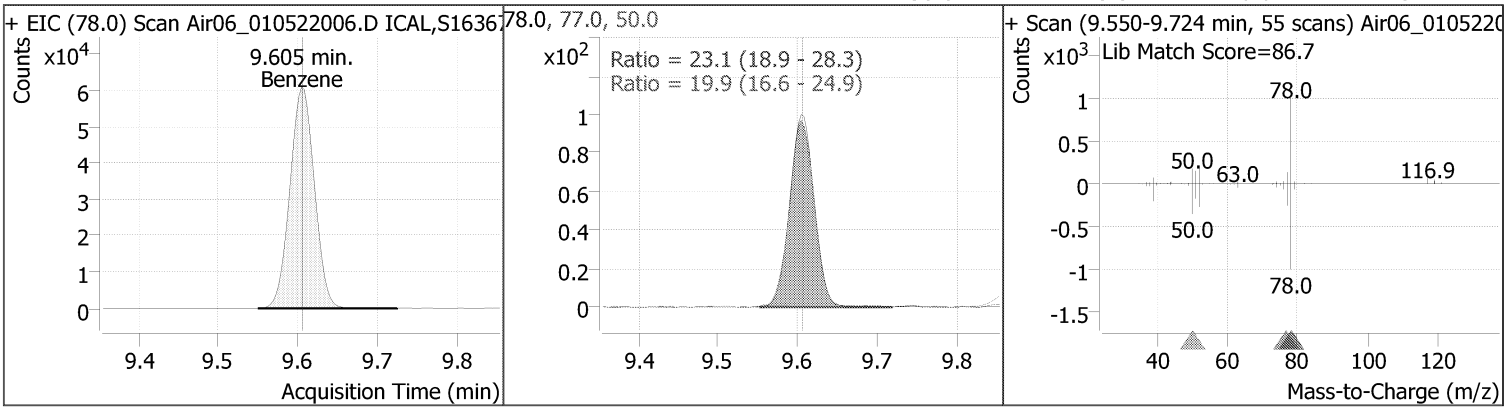

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.8795 | 8.95 | 0.00 | 66480 | 49.0 | 32.6 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.6 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.3 | 5.8 | 8.7 |



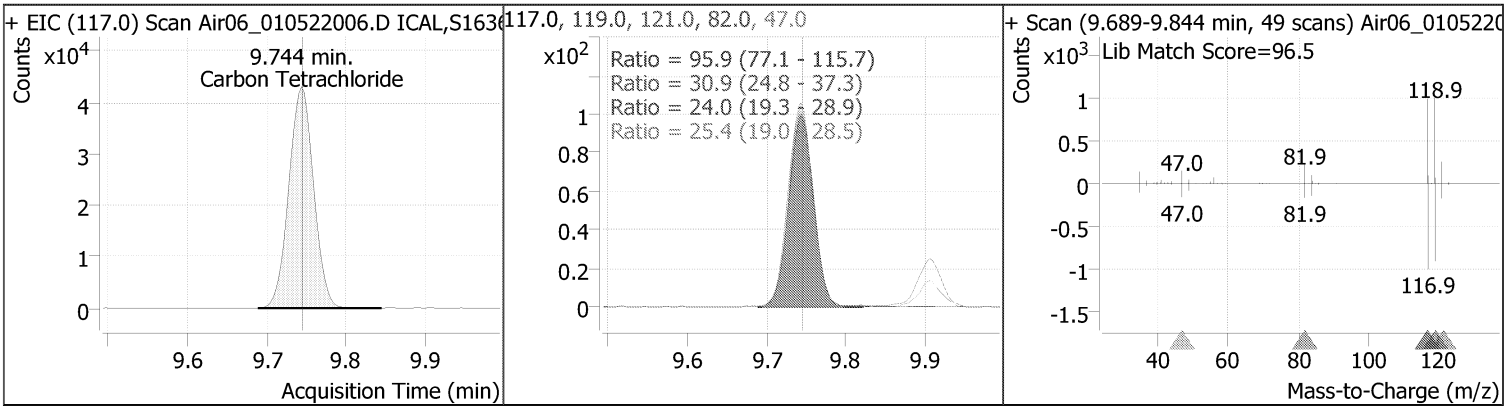
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.8774 | 9.20 | 0.00 | 87612 | 99.0 | 64.5 | 51.4 | 77.0 |
| | | | | | 61.0 | 51.3 | 38.6 | 57.9 |
| | | | | | 117.0 | 14.3 | 10.3 | 15.4 |



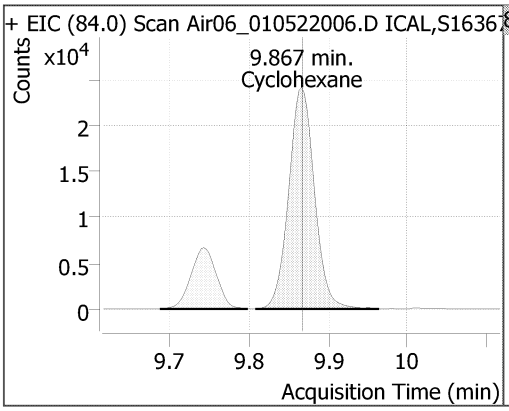

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 0.8779 | 9.60 | 0.00 | 130643 | 77.0 | 23.1 | 18.9 | 28.3 |
| | | | | | 50.0 | 19.9 | 16.6 | 24.9 |

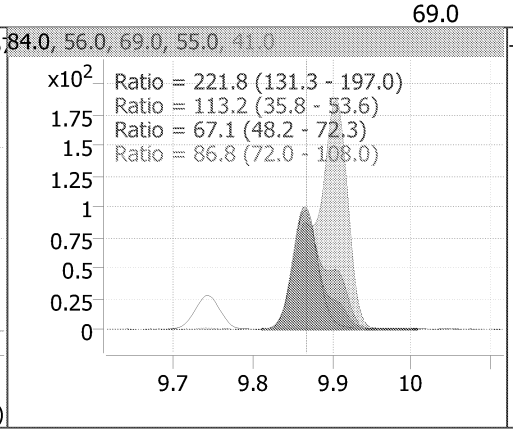


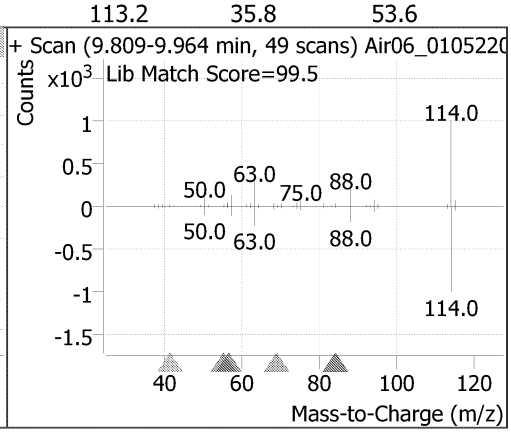

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 0.8750 | 9.74 | 0.00 | 93214 | 119.0 | 95.9 | 77.1 | 115.7 |
| | | | | | 121.0 | 30.9 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.0 | 19.3 | 28.9 |
| | | | | | 47.0 | 25.4 | 19.0 | 28.5 |



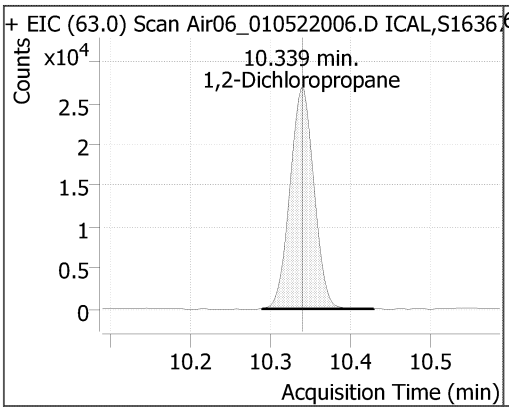
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 0.8770 | 9.87 | 0.00 | 54525 | 56.0 | 221.8 | 131.3 | 197.0 |
| | | | | | 41.0 | 86.8 | 72.0 | 108.0 |
| | | | | | 55.0 | 67.1 | 48.2 | 72.3 |
| | | | | | 69.0 | 113.2 | 35.8 | 53.6 |

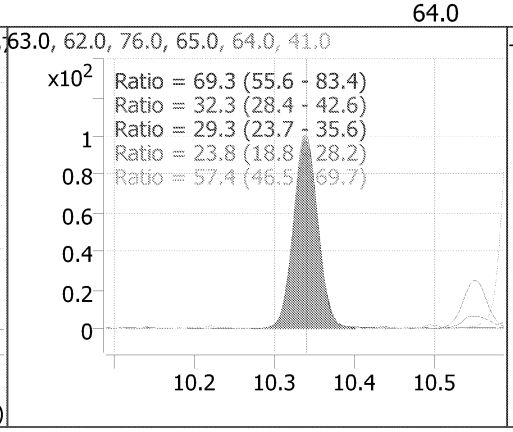


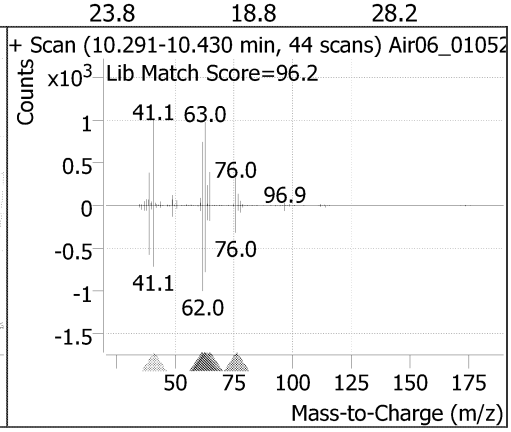



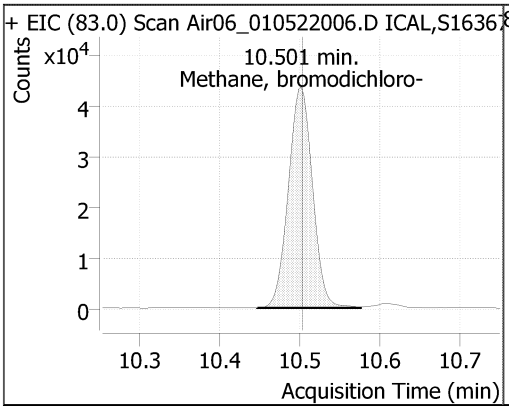

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.8782 | 10.34 | 0.00 | 56568 | 62.0 | 69.3 | 55.6 | 83.4 |
| | | | | | 41.0 | 57.4 | 46.5 | 69.7 |
| | | | | | 76.0 | 32.3 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.3 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.8 | 18.8 | 28.2 |

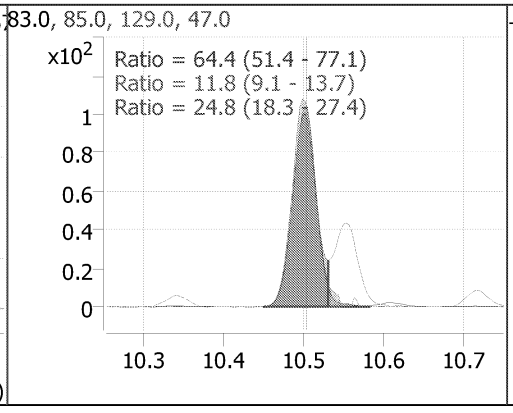


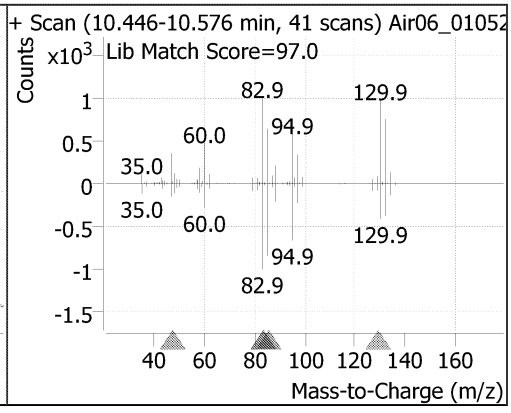



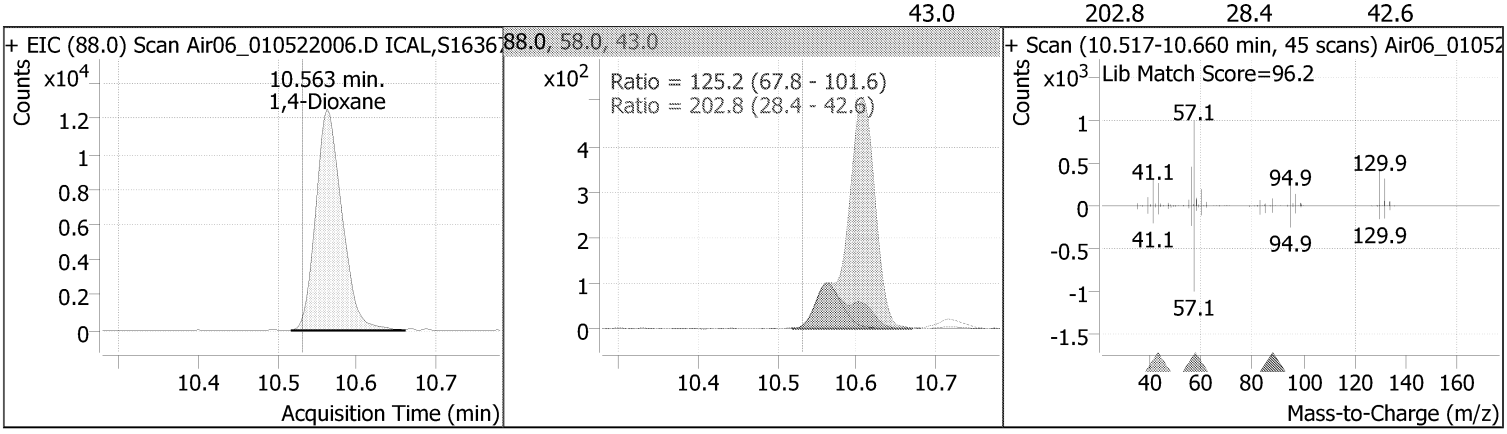

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 0.8752 | 10.50 | 0.00 | 91989 | 85.0 | 64.4 | 51.4 | 77.1 |
| | | | | | 47.0 | 24.8 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.8 | 9.1 | 13.7 |



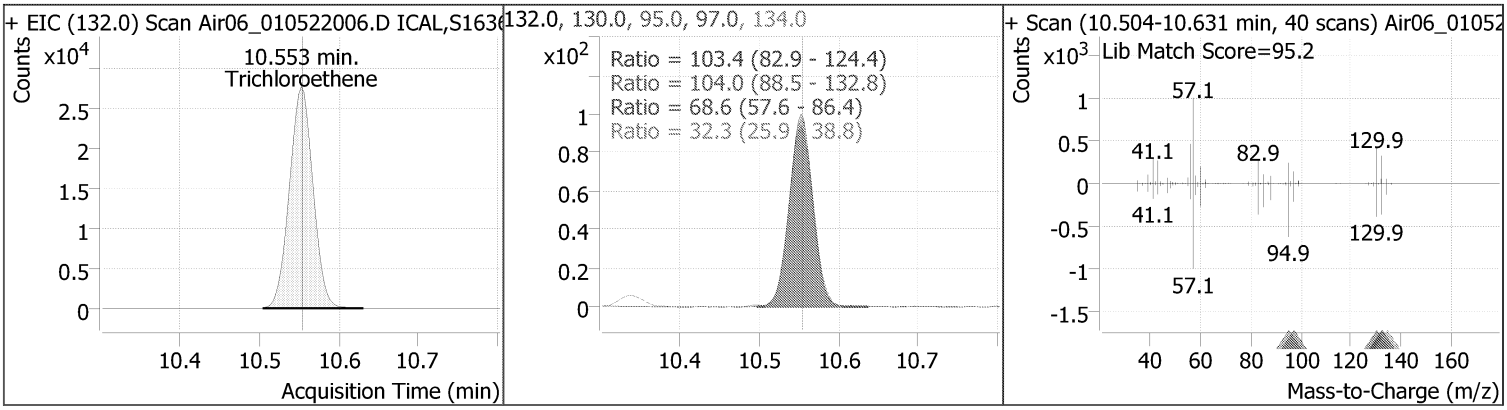



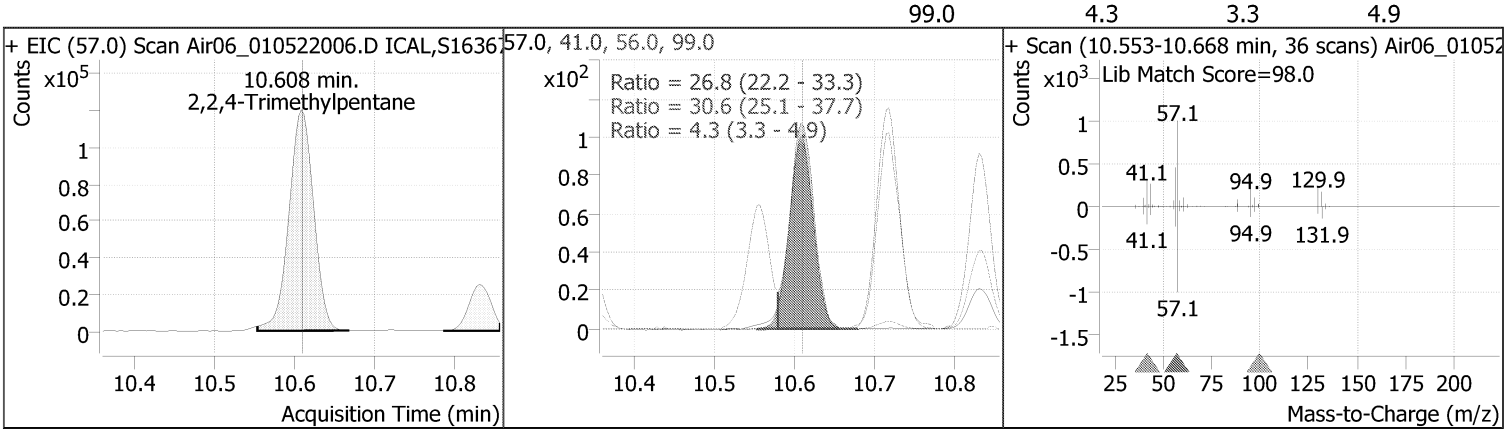
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.8570 | 10.56 | 0.03 | 28806 | 58.0 | 125.2 | 67.8 | 101.6 |
| | | | | | 43.0 | 202.8 | 28.4 | 42.6 |



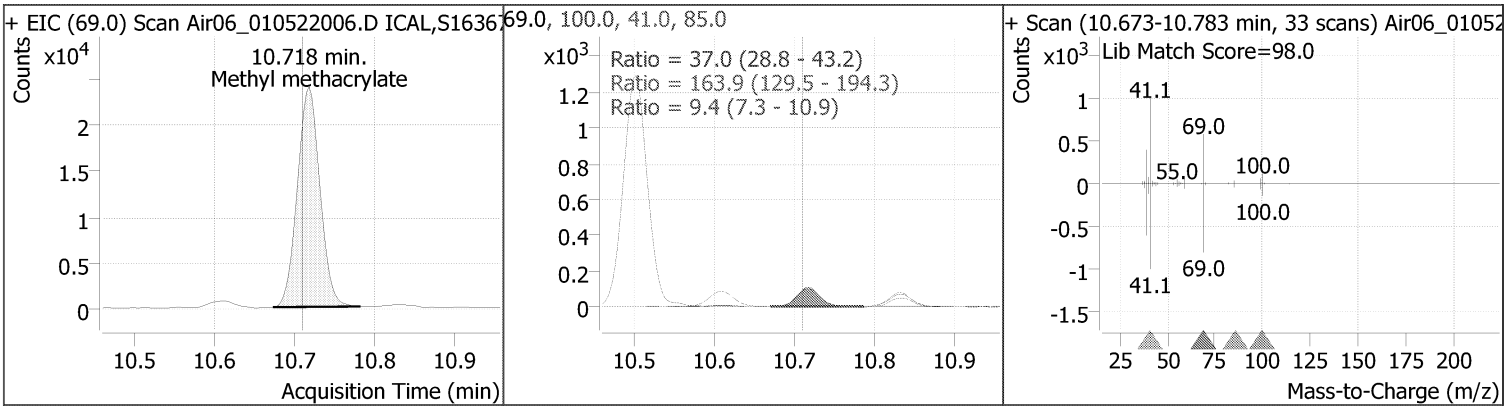

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.8746 | 10.55 | 0.00 | 57312 | 95.0 | 104.0 | 88.5 | 132.8 |
| | | | | | 130.0 | 103.4 | 82.9 | 124.4 |
| | | | | | 97.0 | 68.6 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.3 | 25.9 | 38.8 |



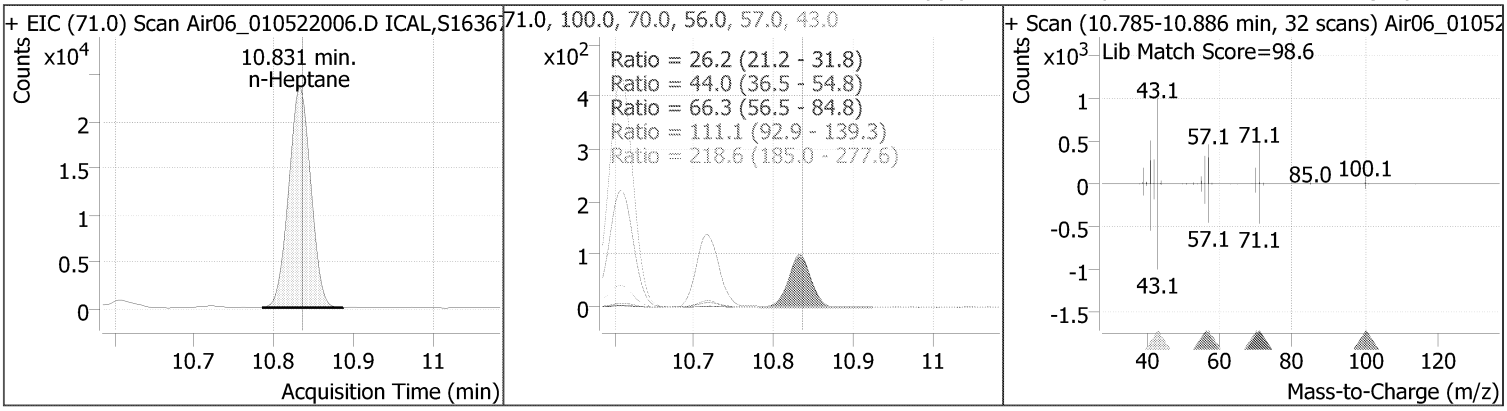

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 0.8861 | 10.61 | 0.00 | 259774 | 56.0 | 30.6 | 25.1 | 37.7 |
| | | | | | 41.0 | 26.8 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.3 | 3.3 | 4.9 |



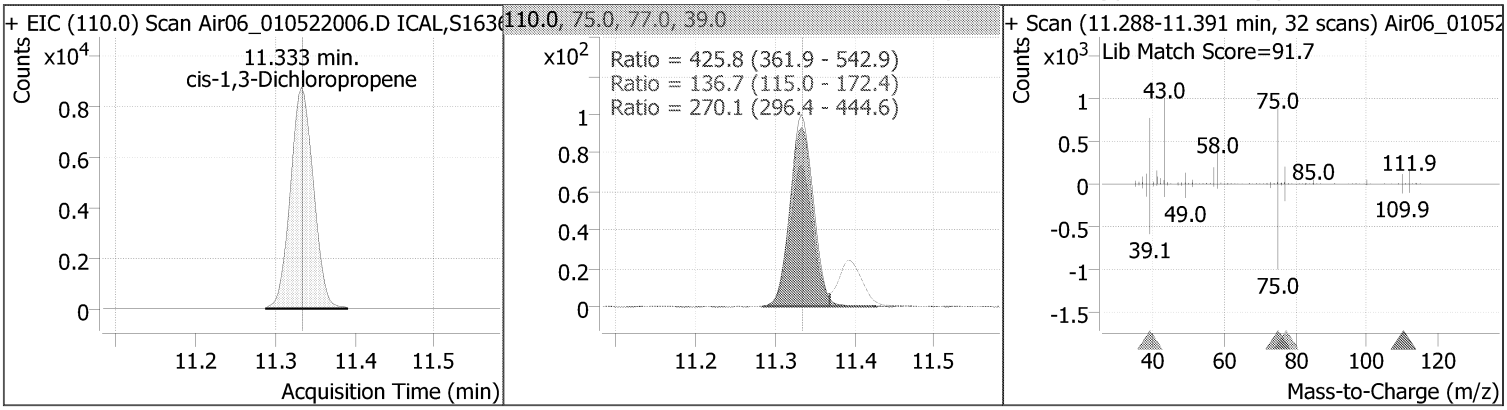
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 0.8636 | 10.72 | 0.01 | 47221 | 41.0 | 163.9 | 129.5 | 194.3 |
| | | | | | 100.0 | 37.0 | 28.8 | 43.2 |
| | | | | | 85.0 | 9.4 | 7.3 | 10.9 |



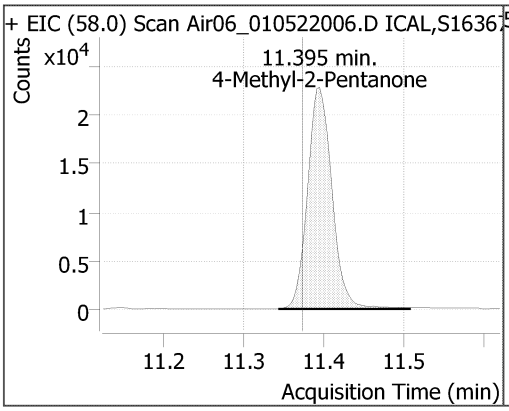

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 0.8981 | 10.83 | -0.01 | 45480 | 43.0 | 218.6 | 185.0 | 277.6 |
| | | | | | 57.0 | 111.1 | 92.9 | 139.3 |
| | | | | | 56.0 | 66.3 | 56.5 | 84.8 |
| | | | | | 70.0 | 44.0 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.2 | 21.2 | 31.8 |

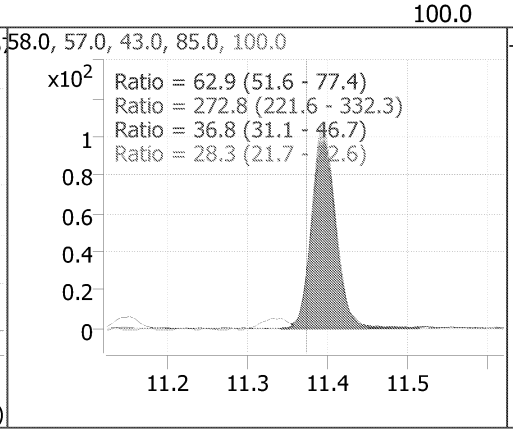


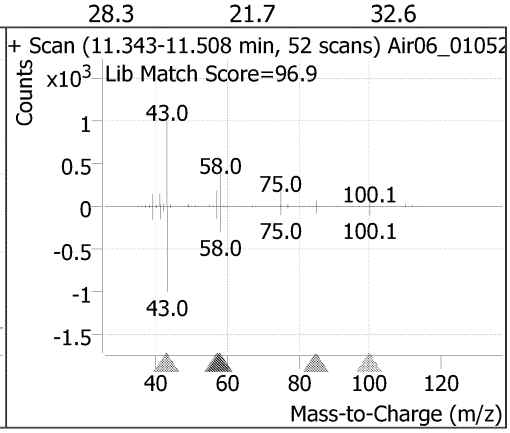

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 0.8660 | 11.33 | 0.00 | 17708 | 75.0 | 425.8 | 361.9 | 542.9 |
| | | | | | 39.0 | 270.1 | 296.4 | 444.6 |
| | | | | | 77.0 | 136.7 | 115.0 | 172.4 |



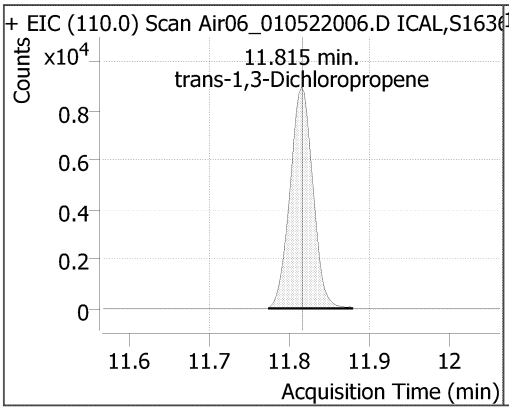
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.8686 | 11.39 | 0.02 | 49074 | 43.0 | 272.8 | 221.6 | 332.3 |
| | | | | | 57.0 | 62.9 | 51.6 | 77.4 |
| | | | | | 85.0 | 36.8 | 31.1 | 46.7 |
| | | | | | 100.0 | 28.3 | 21.7 | 32.6 |

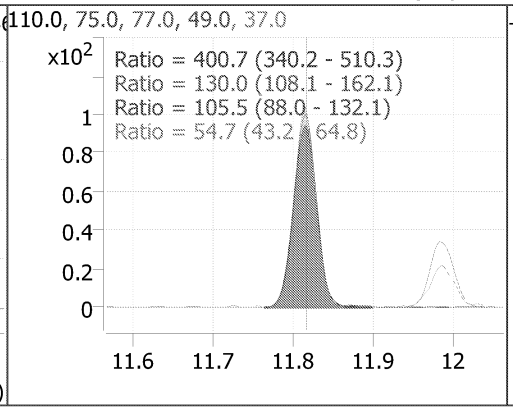


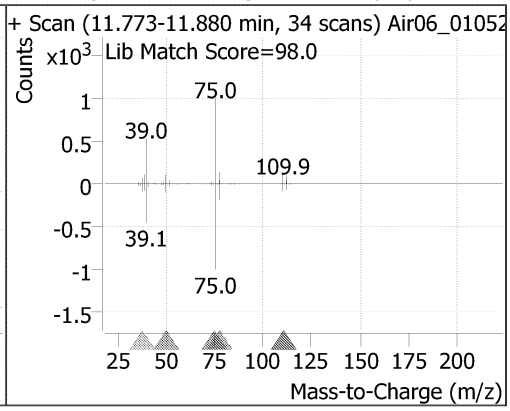



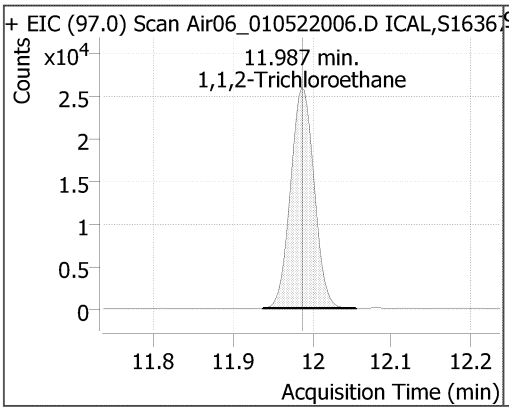

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 0.8559 | 11.82 | 0.00 | 17944 | 75.0 | 400.7 | 340.2 | 510.3 |
| | | | | | 77.0 | 130.0 | 108.1 | 162.1 |
| | | | | | 49.0 | 105.5 | 88.0 | 132.1 |
| | | | | | 37.0 | 54.7 | 43.2 | 64.8 |

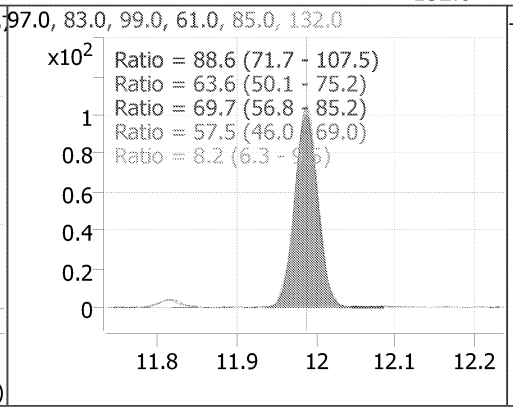


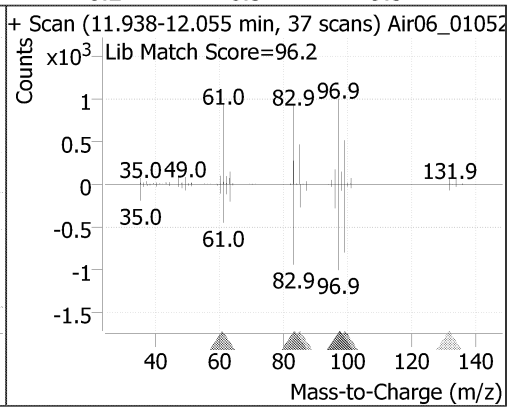



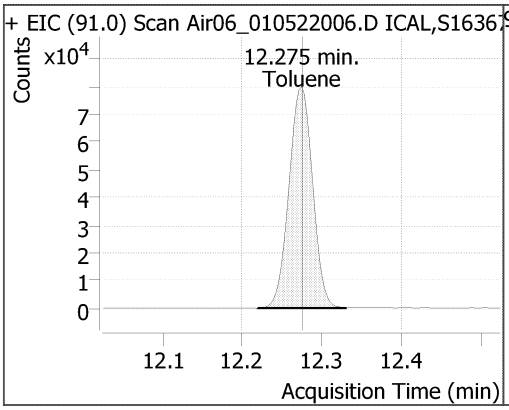

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.8708 | 11.99 | 0.00 | 53418 | 83.0 | 88.6 | 71.7 | 107.5 |
| | | | | | 61.0 | 69.7 | 56.8 | 85.2 |
| | | | | | 99.0 | 63.6 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.5 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.2 | 6.3 | 9.5 |

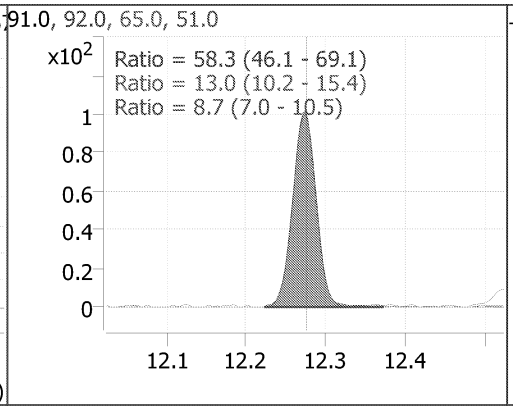


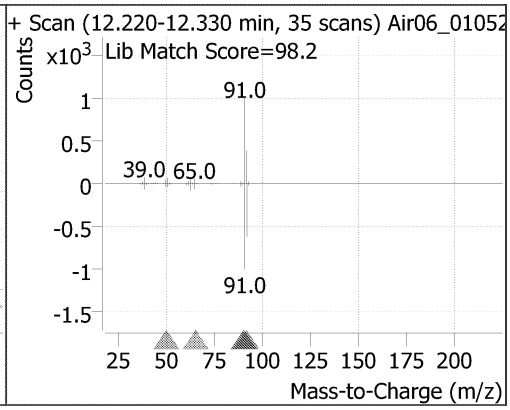



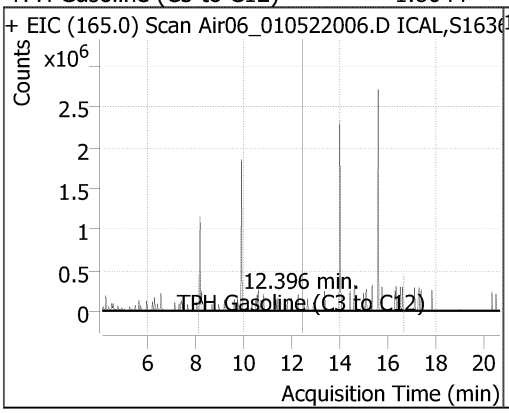
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 0.8869 | 12.27 | 0.00 | 165322 | 92.0 | 58.3 | 46.1 | 69.1 |
| | | | | | 65.0 | 13.0 | 10.2 | 15.4 |
| | | | | | 51.0 | 8.7 | 7.0 | 10.5 |

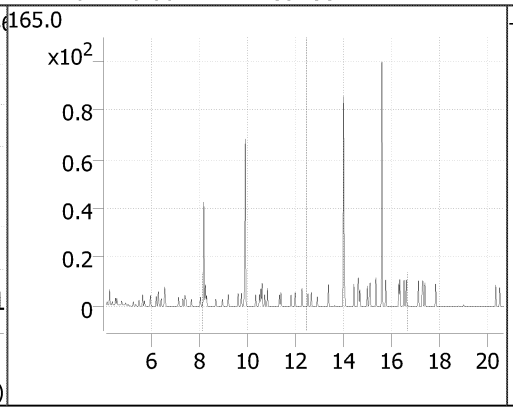


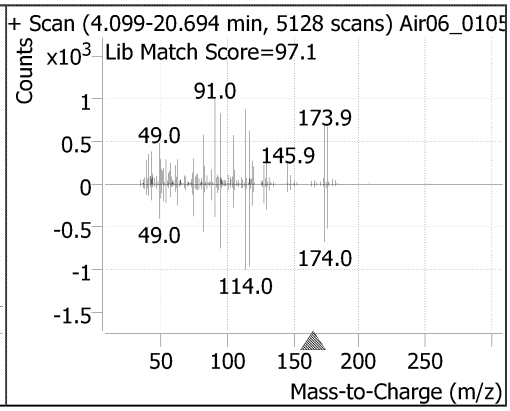



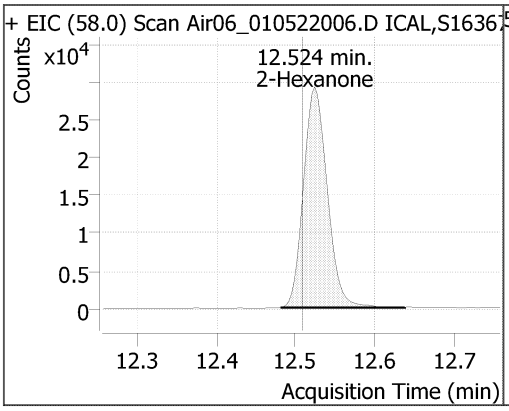

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 1.8044 | 12.40 | 0.00 | 23913344 | | | | |

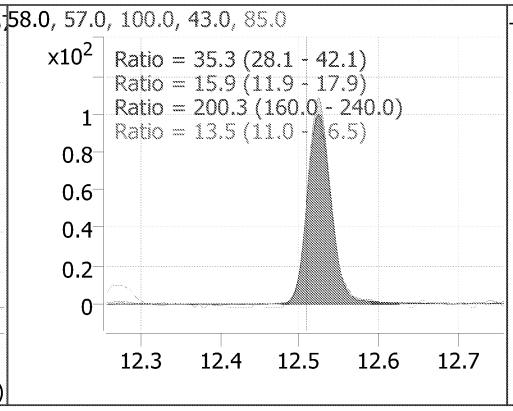


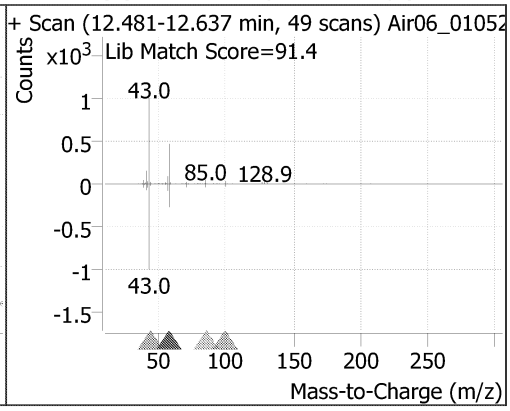



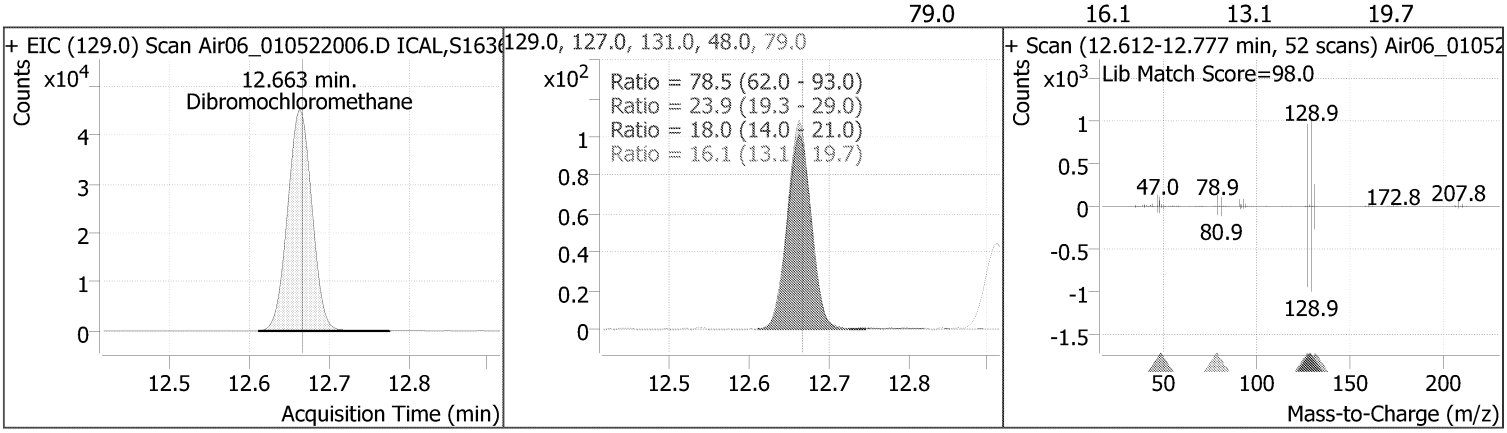

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 0.8420 | 12.52 | 0.01 | 61096 | 43.0 | 200.3 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.3 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.9 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.5 | 11.0 | 16.5 |



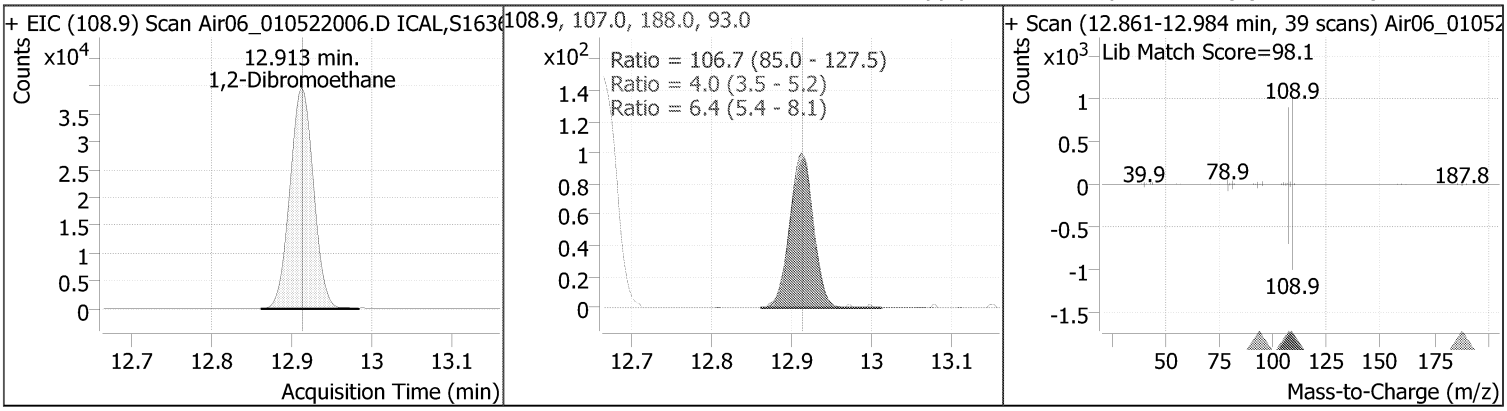



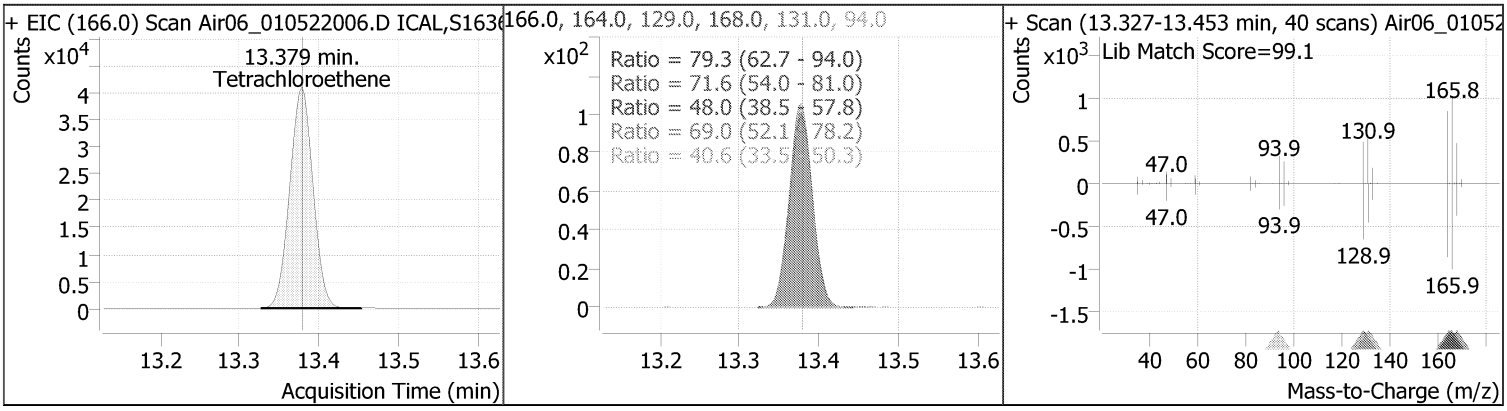
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.8671 | 12.66 | -0.01 | 96558 | 127.0 | 78.5 | 62.0 | 93.0 |
| | | | | | 131.0 | 23.9 | 19.3 | 29.0 |
| | | | | | 48.0 | 18.0 | 14.0 | 21.0 |
| | | | | | 79.0 | 16.1 | 13.1 | 19.7 |



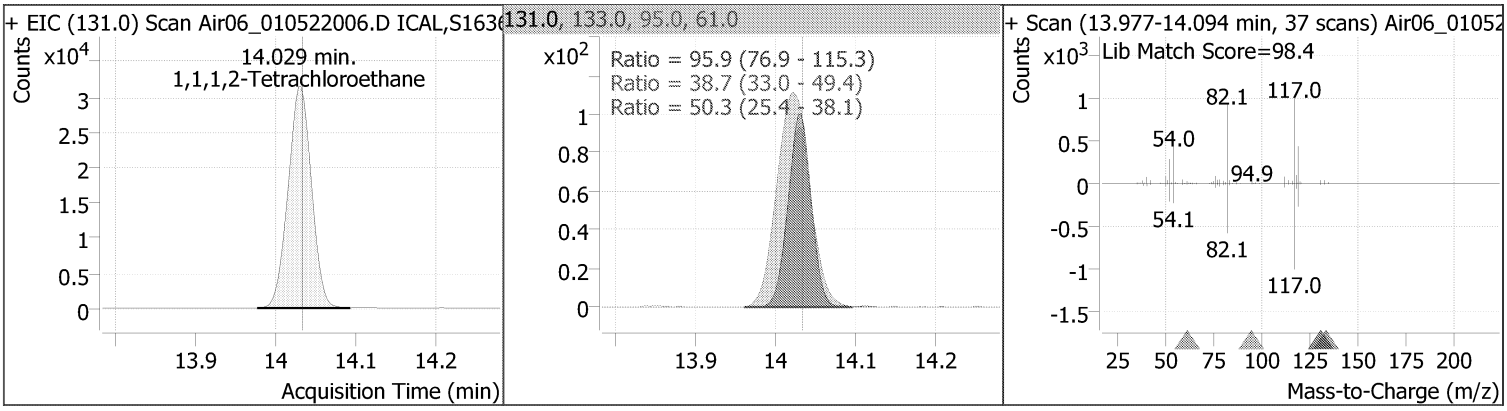

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.8739 | 12.91 | 0.00 | 82474 | 107.0 | 106.7 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.4 | 5.4 | 8.1 |
| | | | | | 188.0 | 4.0 | 3.5 | 5.2 |



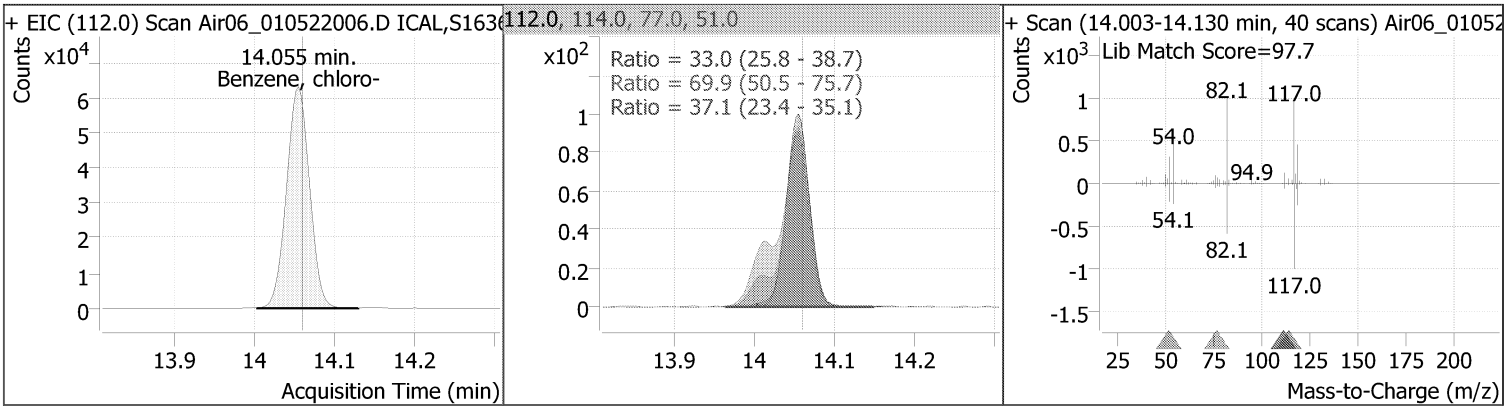

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.8676 | 13.38 | 0.00 | 83610 | 164.0 | 79.3 | 62.7 | 94.0 |
| | | | | | 129.0 | 71.6 | 54.0 | 81.0 |
| | | | | | 131.0 | 69.0 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.0 | 38.5 | 57.8 |
| | | | | | 94.0 | 40.6 | 33.5 | 50.3 |



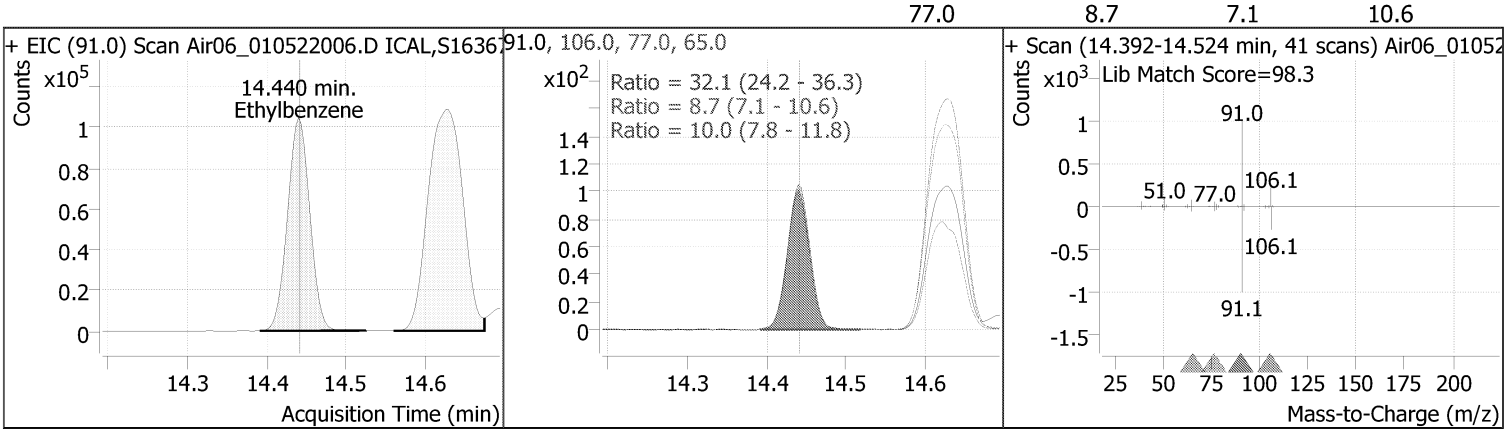
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 0.9058 | 14.03 | -0.01 | 64311 | 133.0 | 95.9 | 76.9 | 115.3 |
| | | | | | 95.0 | 38.7 | 33.0 | 49.4 |
| | | | | | 61.0 | 50.3 | 25.4 | 38.1 |



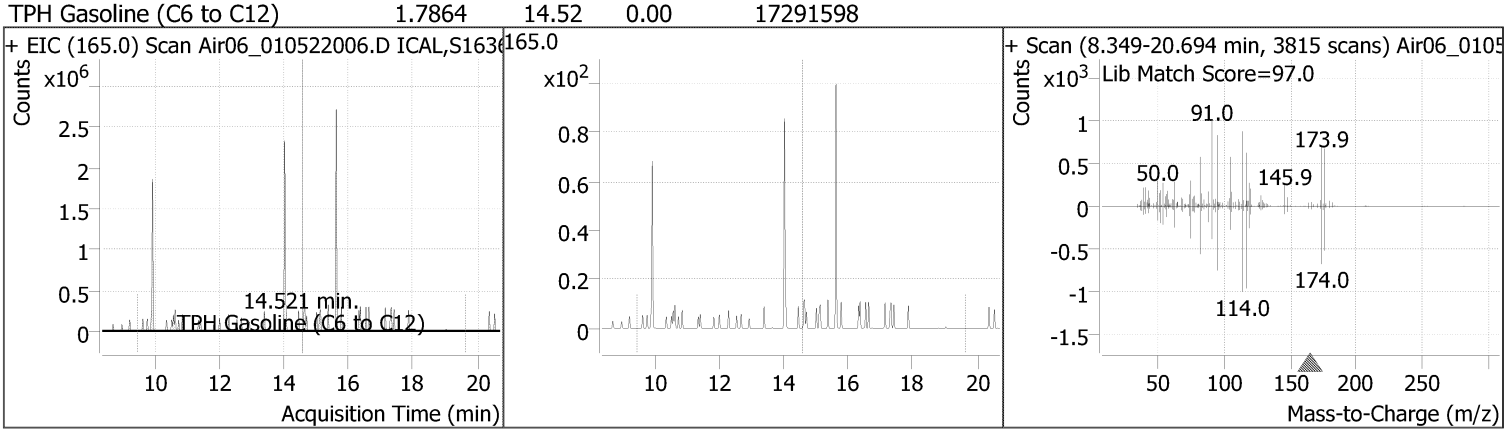

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 0.9022 | 14.06 | -0.01 | 127105 | 77.0 | 69.9 | 50.5 | 75.7 |
| | | | | | 114.0 | 33.0 | 25.8 | 38.7 |
| | | | | | 51.0 | 37.1 | 23.4 | 35.1 |



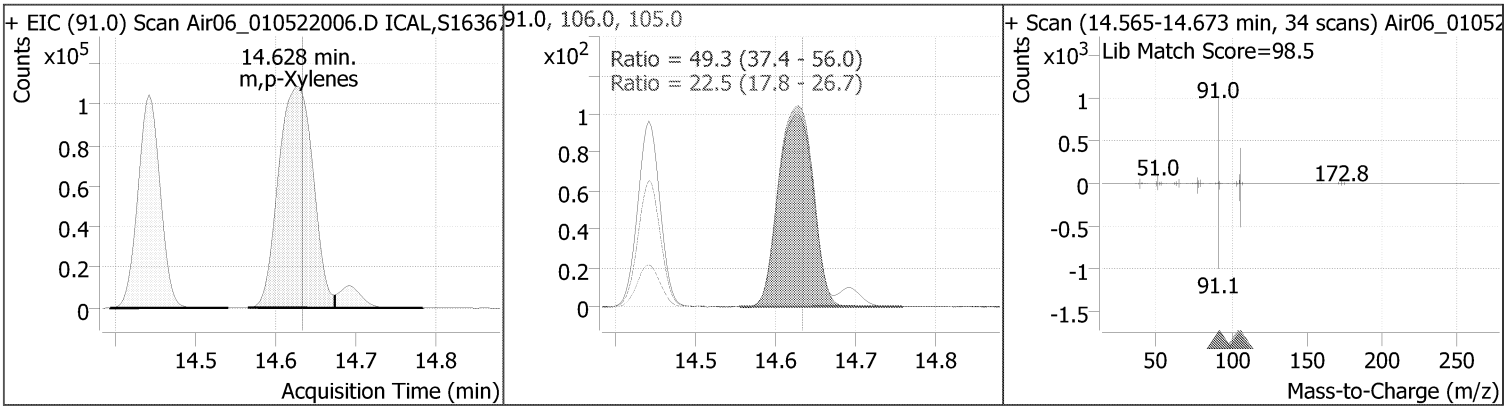

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.9049 | 14.44 | -0.01 | 202551 | 106.0 | 32.1 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.0 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.7 | 7.1 | 10.6 |



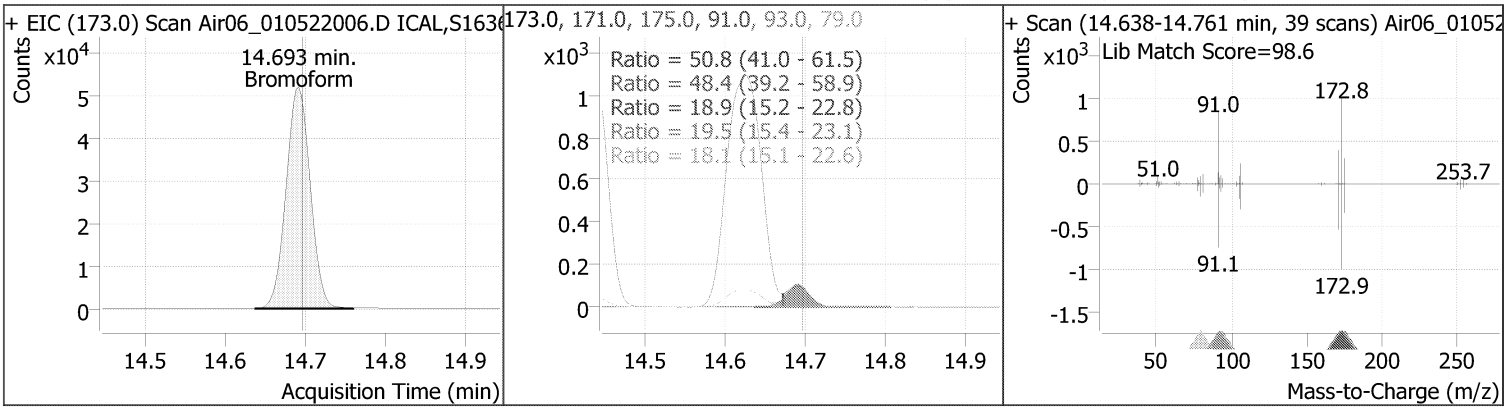
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 1.7864 | 14.52 | 0.00 | 17291598 | | | | |



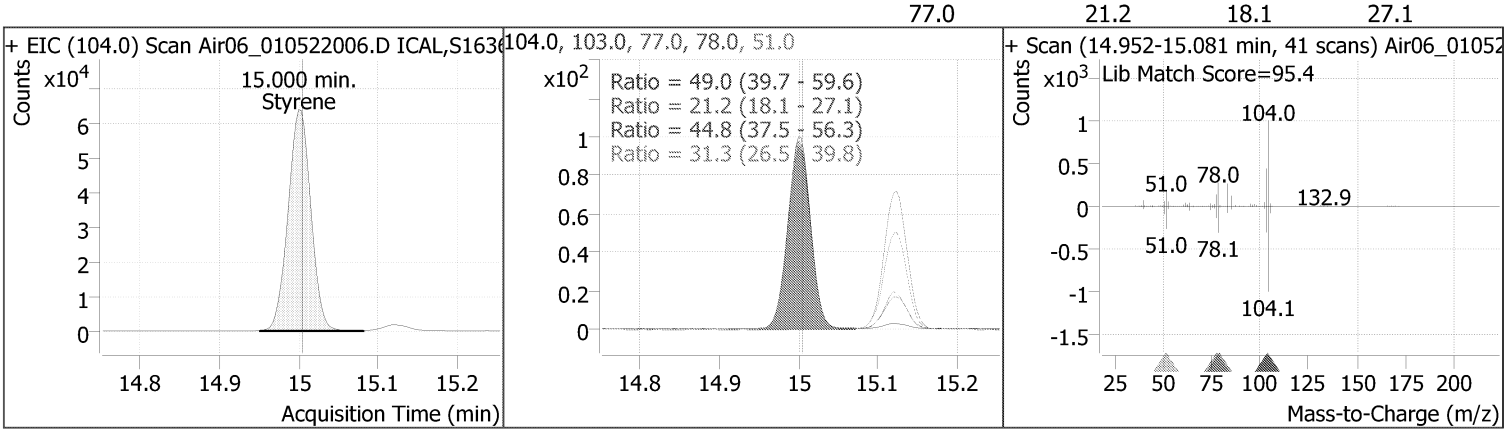

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 1.8224 | 14.63 | -0.01 | 328055 | 106.0 | 49.3 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.5 | 17.8 | 26.7 |



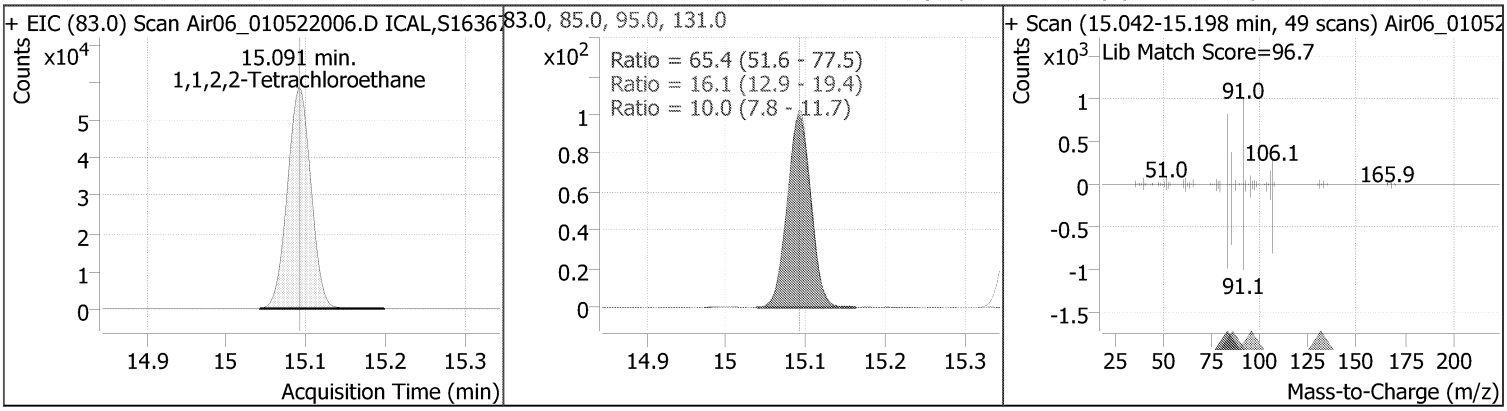

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.8922 | 14.69 | -0.01 | 109998 | 171.0 | 50.8 | 41.0 | 61.5 |
| | | | | | 175.0 | 48.4 | 39.2 | 58.9 |
| | | | | | 93.0 | 19.5 | 15.4 | 23.1 |
| | | | | | 91.0 | 18.9 | 15.2 | 22.8 |
| | | | | | 79.0 | 18.1 | 15.1 | 22.6 |



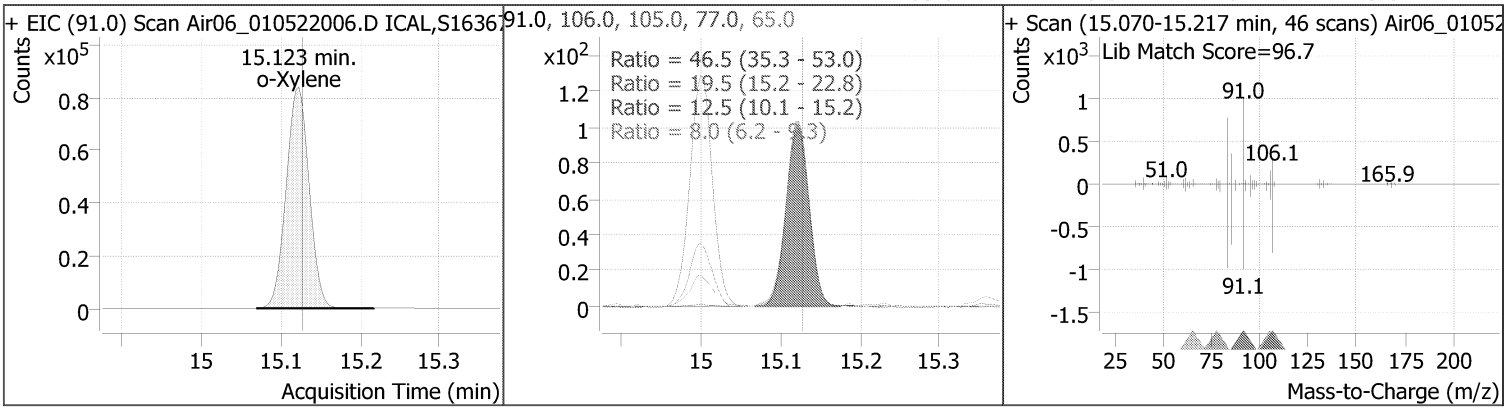
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 0.8960 | 15.00 | -0.01 | 127813 | 103.0 | 49.0 | 39.7 | 59.6 |
| | | | | | 78.0 | 44.8 | 37.5 | 56.3 |
| | | | | | 51.0 | 31.3 | 26.5 | 39.8 |
| | | | | | 77.0 | 21.2 | 18.1 | 27.1 |



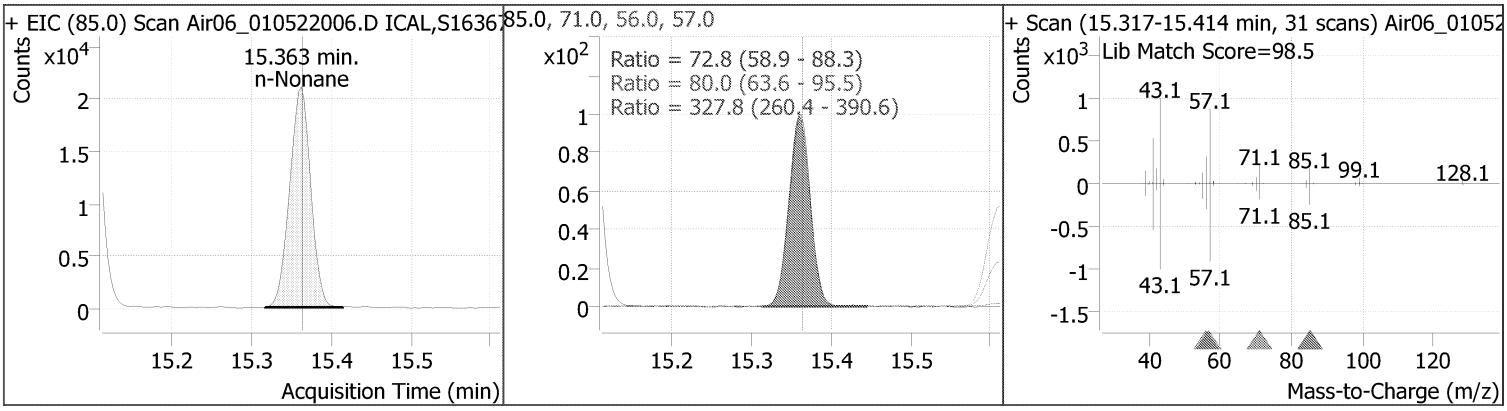

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 0.8897 | 15.09 | -0.01 | 121024 | 85.0 | 65.4 | 51.6 | 77.5 |
| | | | | | 95.0 | 16.1 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.0 | 7.8 | 11.7 |



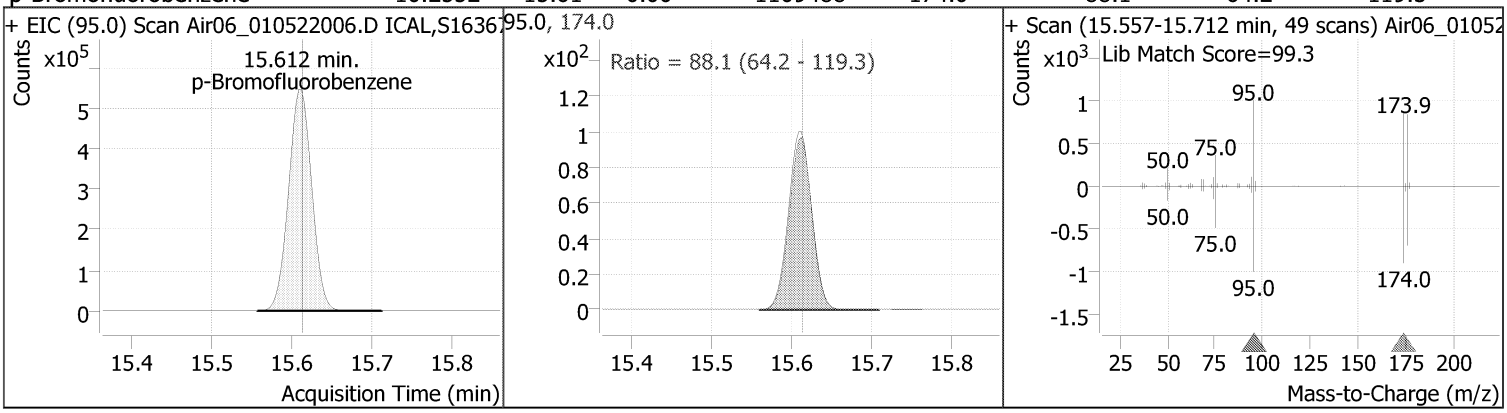

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 0.9074 | 15.12 | -0.01 | 167933 | 106.0 | 46.5 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.5 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.5 | 10.1 | 15.2 |
| | | | | | 65.0 | 8.0 | 6.2 | 9.3 |



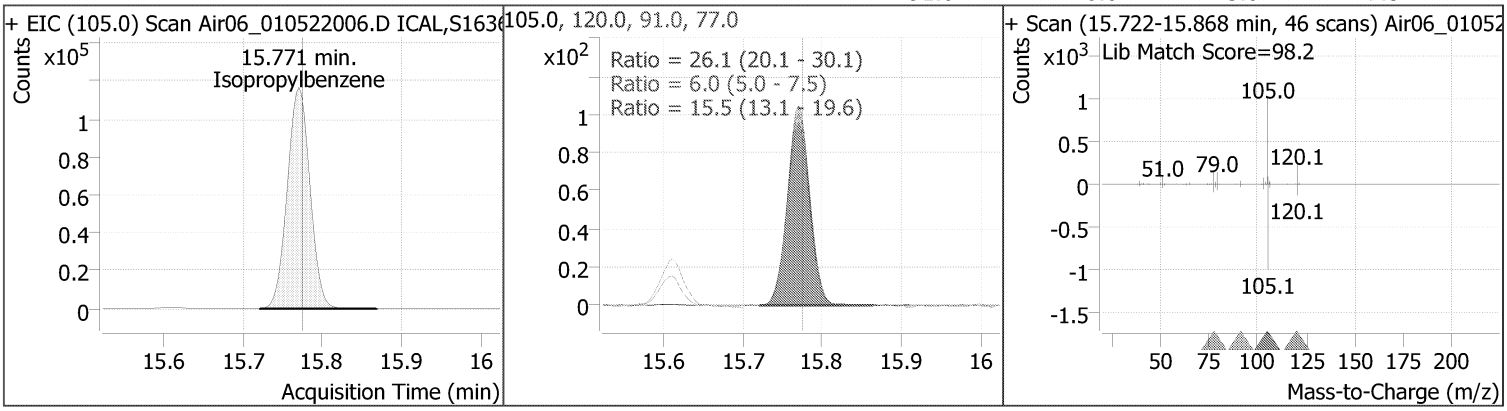
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 0.9048 | 15.36 | 0.00 | 38686 | 57.0 | 327.8 | 260.4 | 390.6 |
| | | | | | 56.0 | 80.0 | 63.6 | 95.5 |
| | | | | | 71.0 | 72.8 | 58.9 | 88.3 |



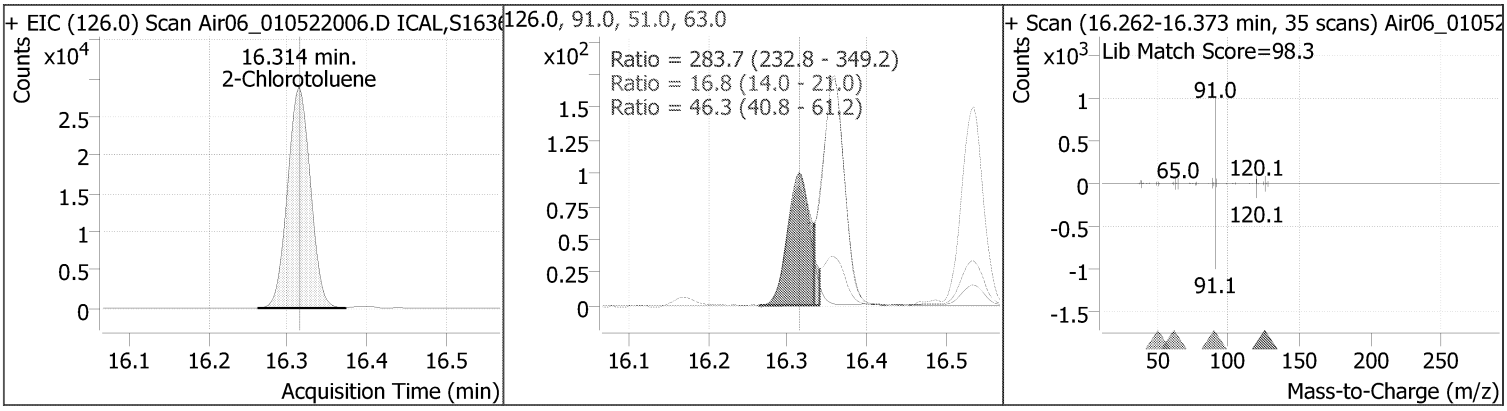

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.2552 | 15.61 | 0.00 | 1109488 | 174.0 | 88.1 | 64.2 | 119.3 |



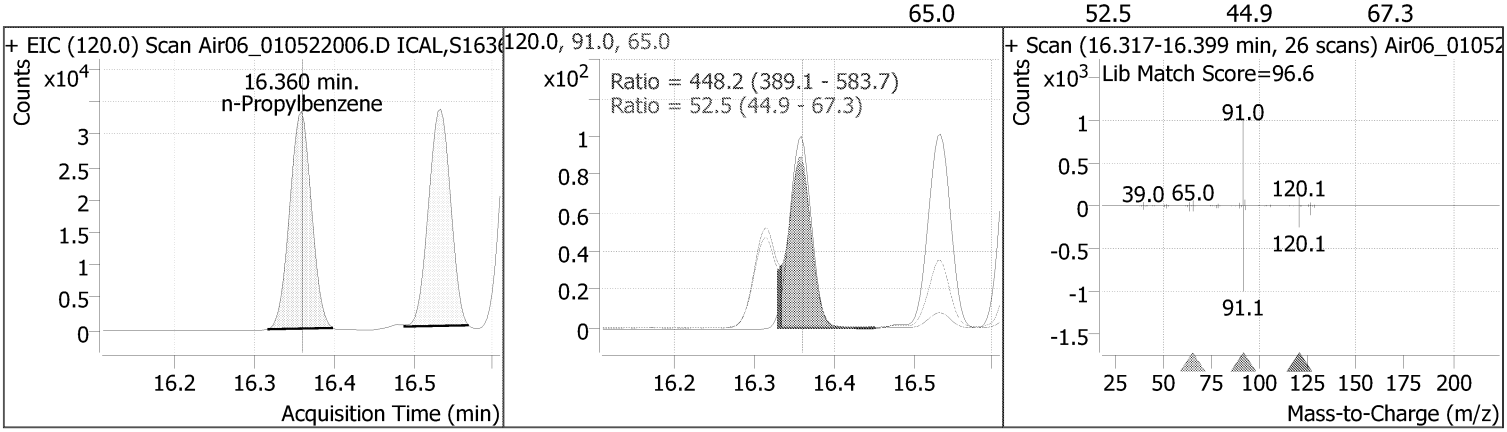

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 0.9095 | 15.77 | -0.01 | 230740 | 120.0 | 26.1 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.5 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.0 | 5.0 | 7.5 |



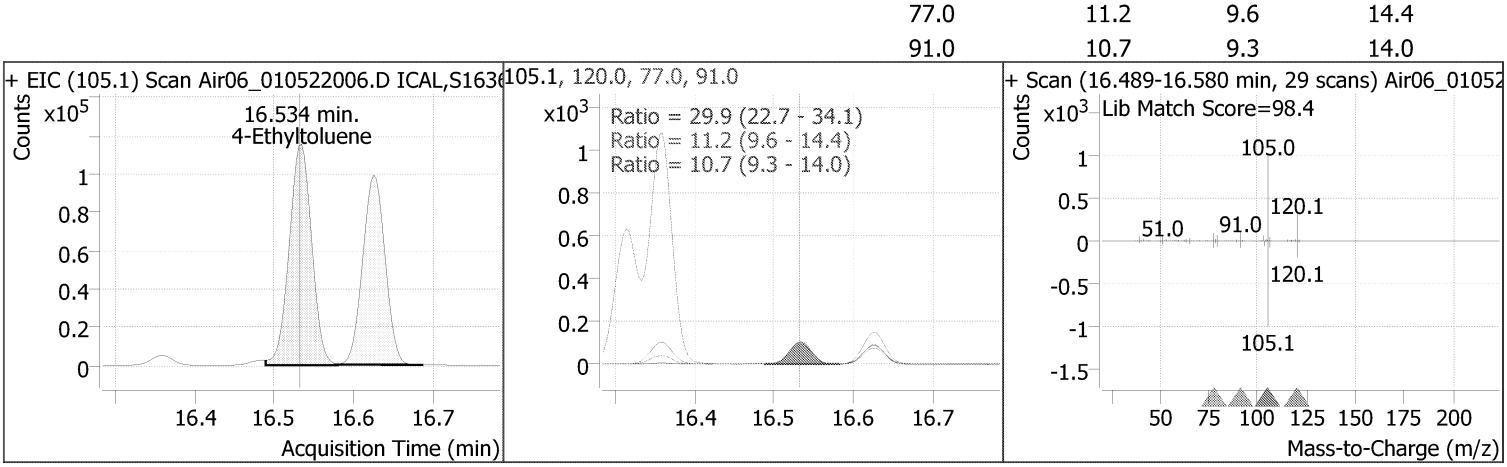
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 0.8975 | 16.31 | -0.01 | 57995 | 91.0 | 283.7 | 232.8 | 349.2 |
| | | | | | 63.0 | 46.3 | 40.8 | 61.2 |
| | | | | | 51.0 | 16.8 | 14.0 | 21.0 |



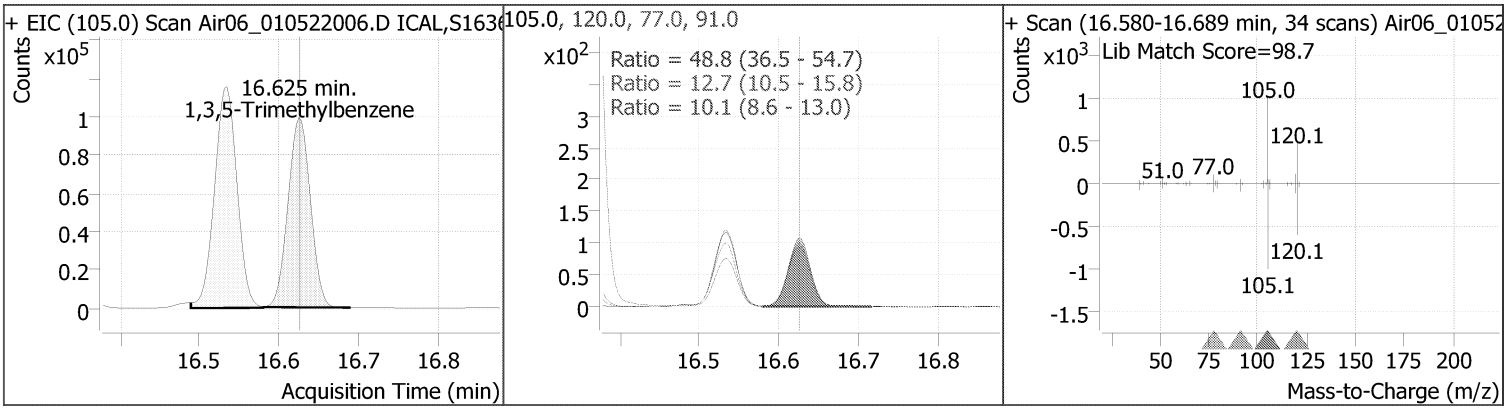

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 0.8958 | 16.36 | 0.00 | 63499 | 91.0 | 448.2 | 389.1 | 583.7 |
| | | | | | 65.0 | 52.5 | 44.9 | 67.3 |



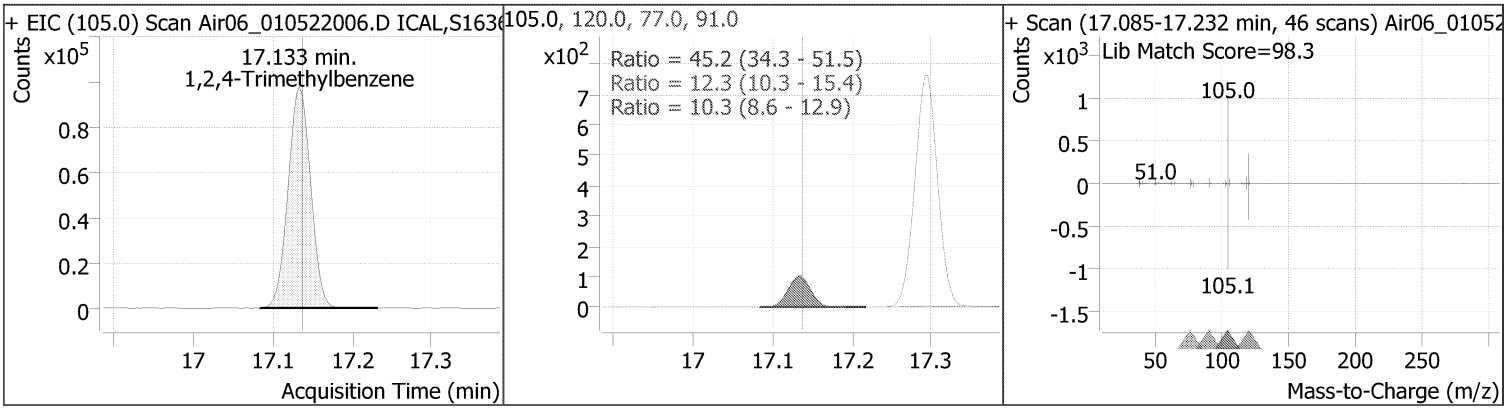

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 0.9039 | 16.53 | 0.00 | 226925 | 120.0 | 29.9 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.2 | 9.6 | 14.4 |
| | | | | | 91.0 | 10.7 | 9.3 | 14.0 |



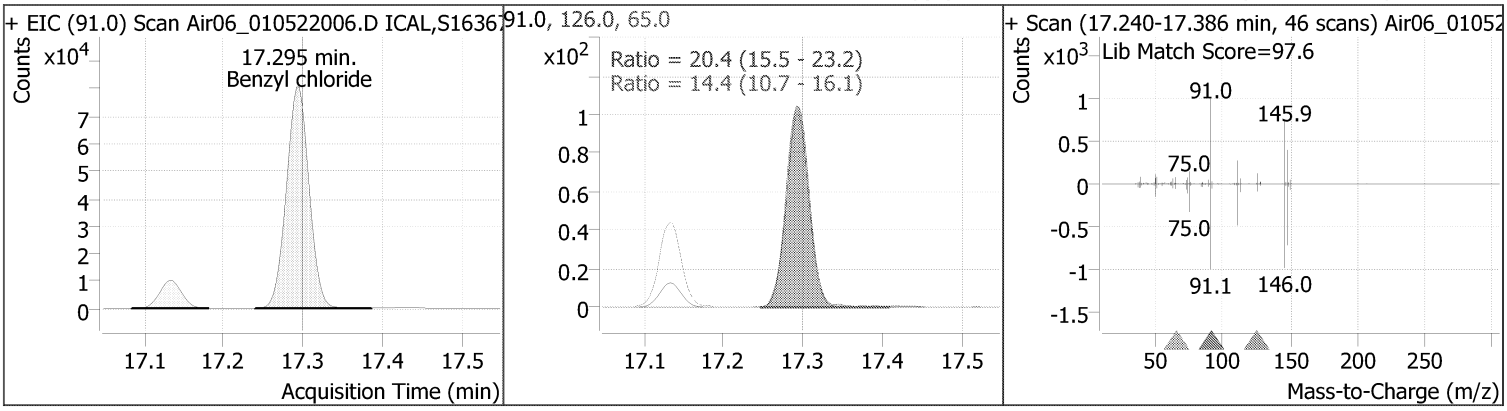
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.8909 | 16.63 | -0.01 | 193618 | 120.0 | 48.8 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.7 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.1 | 8.6 | 13.0 |



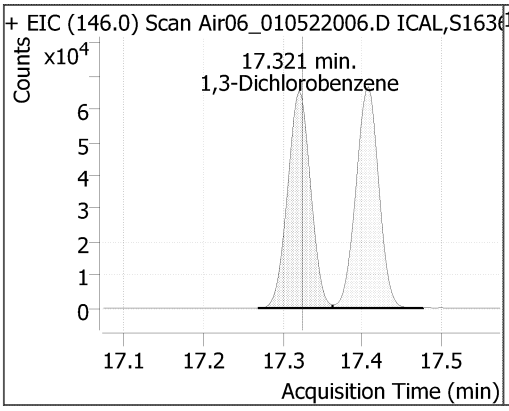

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.8954 | 17.13 | -0.01 | 193287 | 120.0 | 45.2 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.3 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.3 | 8.6 | 12.9 |

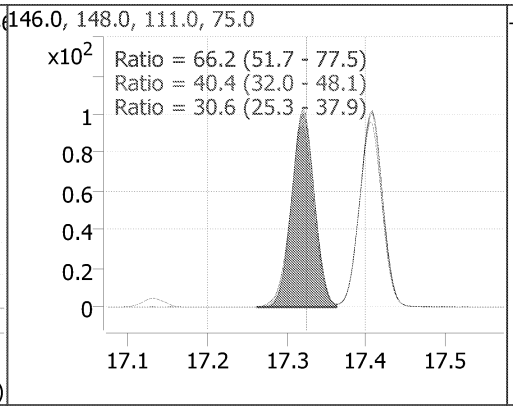


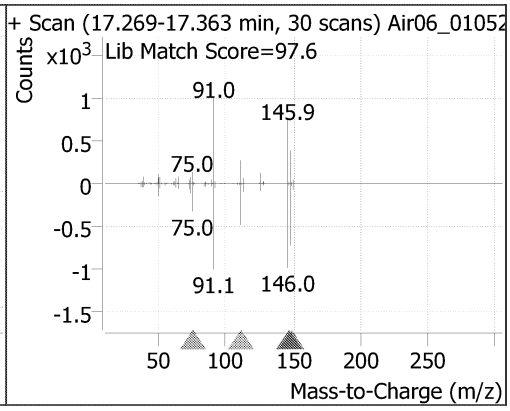

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 0.8448 | 17.30 | -0.01 | 160352 | 126.0 | 20.4 | 15.5 | 23.2 |
| | | | | | 65.0 | 14.4 | 10.7 | 16.1 |



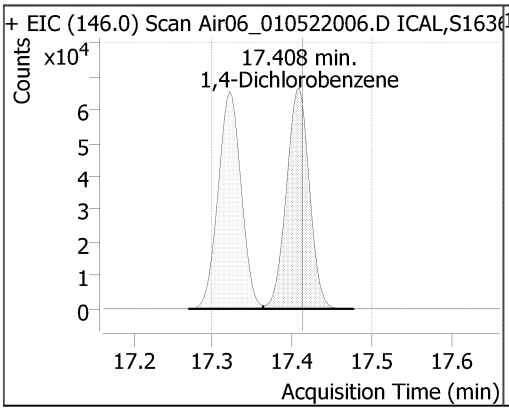
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.8904 | 17.32 | -0.01 | 131839 | 148.0 | 66.2 | 51.7 | 77.5 |
| | | | | | 111.0 | 40.4 | 32.0 | 48.1 |
| | | | | | 75.0 | 30.6 | 25.3 | 37.9 |

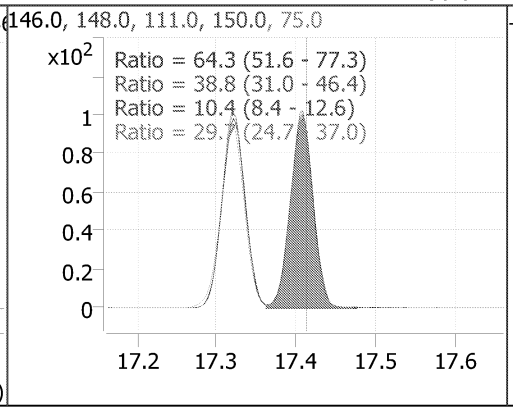


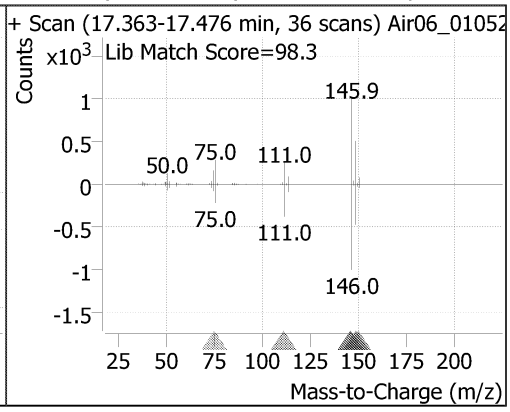



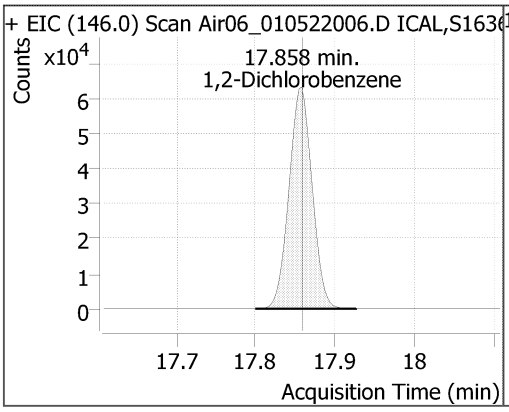

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.8930 | 17.41 | -0.01 | 133698 | 148.0 | 64.3 | 51.6 | 77.3 |
| | | | | | 111.0 | 38.8 | 31.0 | 46.4 |
| | | | | | 75.0 | 29.7 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.4 | 8.4 | 12.6 |

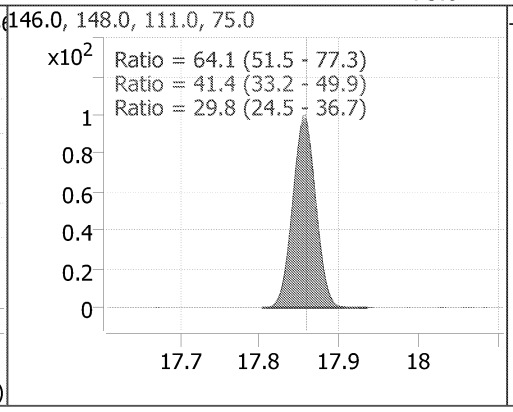


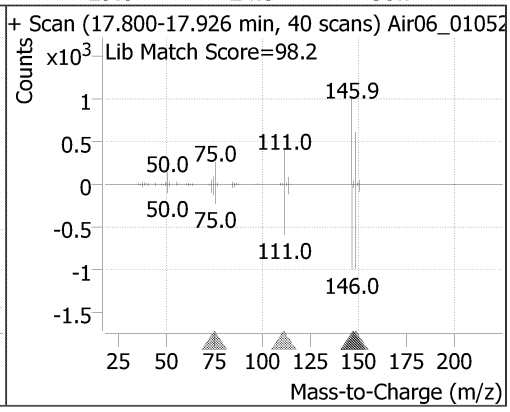



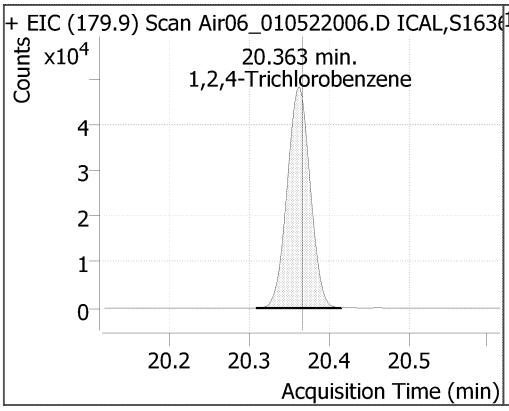

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 0.8891 | 17.86 | 0.00 | 128399 | 148.0 | 64.1 | 51.5 | 77.3 |
| | | | | | 111.0 | 41.4 | 33.2 | 49.9 |
| | | | | | 75.0 | 29.8 | 24.5 | 36.7 |

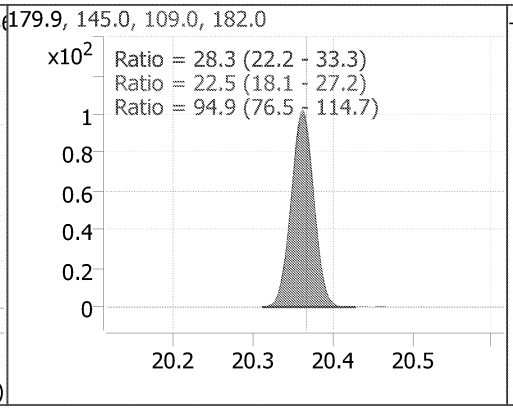


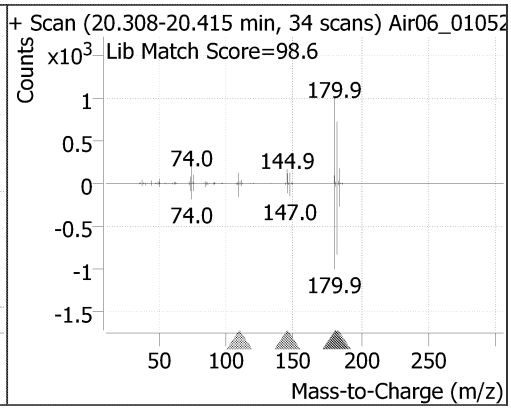



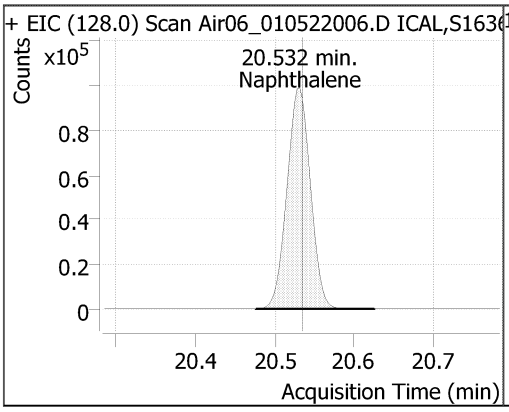
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.8185 | 20.36 | -0.01 | 97400 | 182.0 | 94.9 | 76.5 | 114.7 |
| | | | | | 145.0 | 28.3 | 22.2 | 33.3 |
| | | | | | 109.0 | 22.5 | 18.1 | 27.2 |

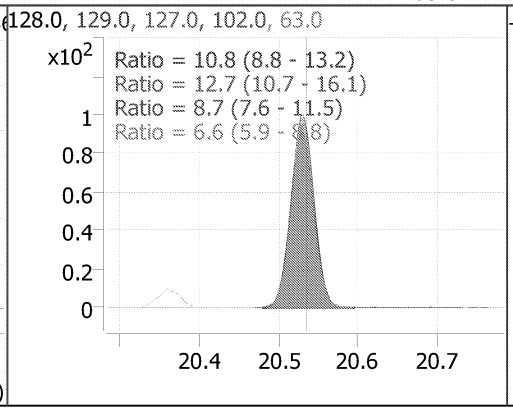


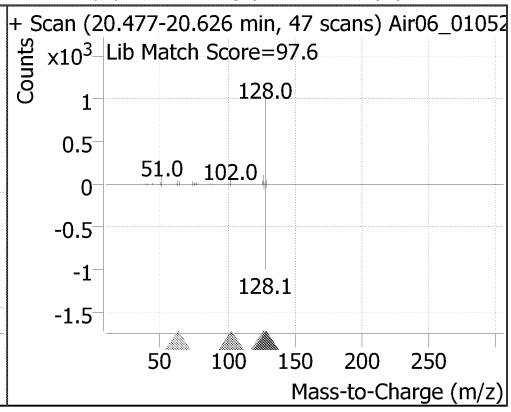



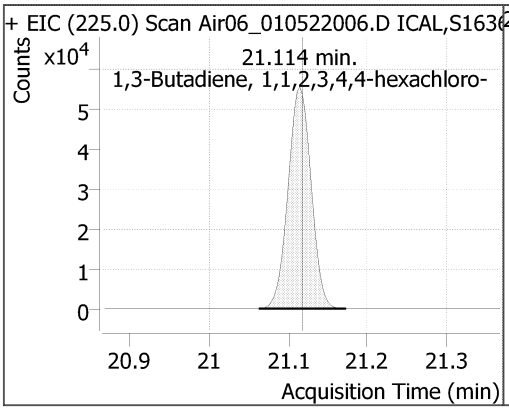

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.8296 | 20.53 | -0.01 | 204342 | 127.0 | 12.7 | 10.7 | 16.1 |
| | | | | | 129.0 | 10.8 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.7 | 7.6 | 11.5 |
| | | | | | 63.0 | 6.6 | 5.9 | 8.8 |

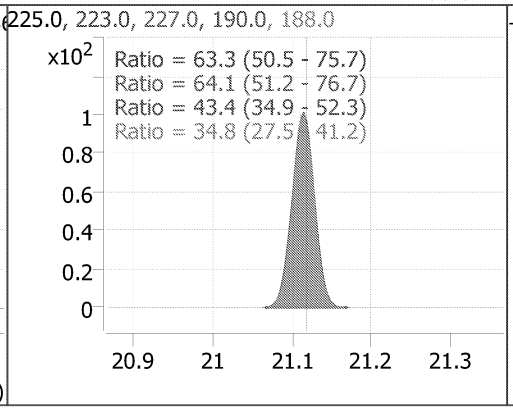


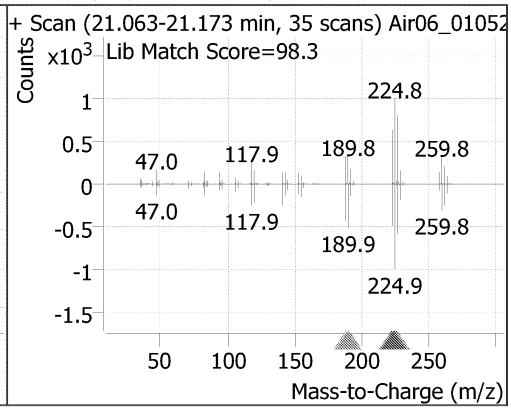




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 0.8768 | 21.11 | -0.01 | 112121 | 227.0 | 64.1 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.3 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.4 | 34.9 | 52.3 |
| | | | | | 188.0 | 34.8 | 27.5 | 41.2 |

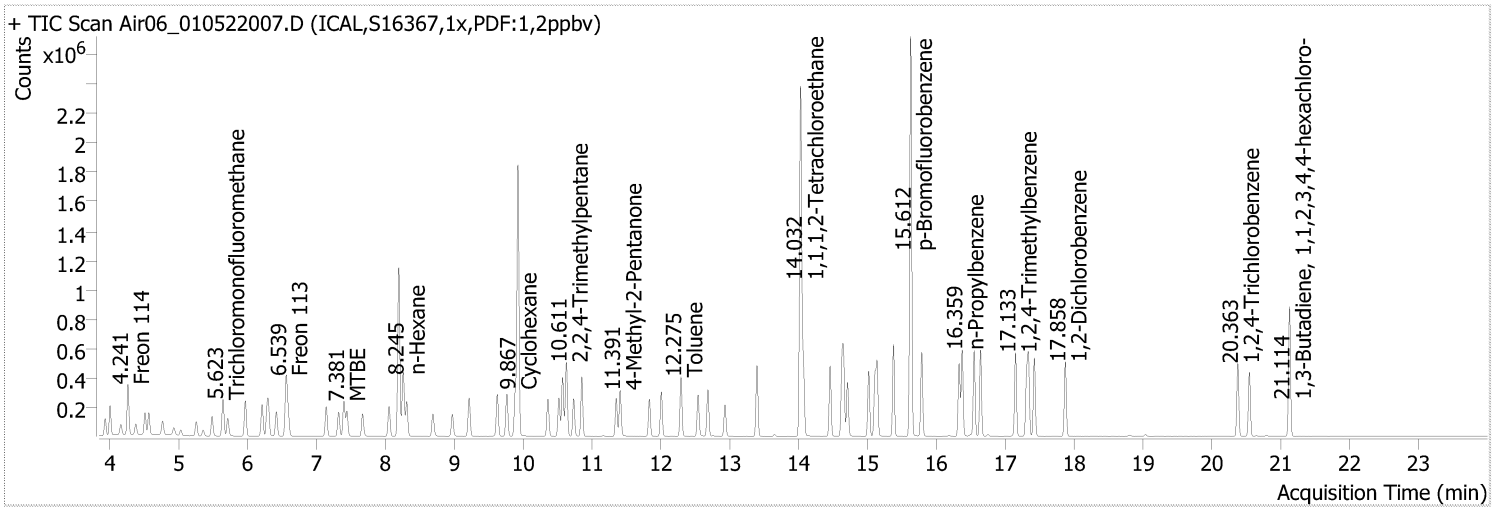


# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522007.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 7:02:31 PM |
| Sample Name | ICAL,S16367,1x,PDF:1,2ppbv | Instrument | Air-MS-06 |
| Vial | 6 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x400mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 05 1236 TO15_220105.m.batch.bin | Last Calib Update | 1/5/2022 7:27:06 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



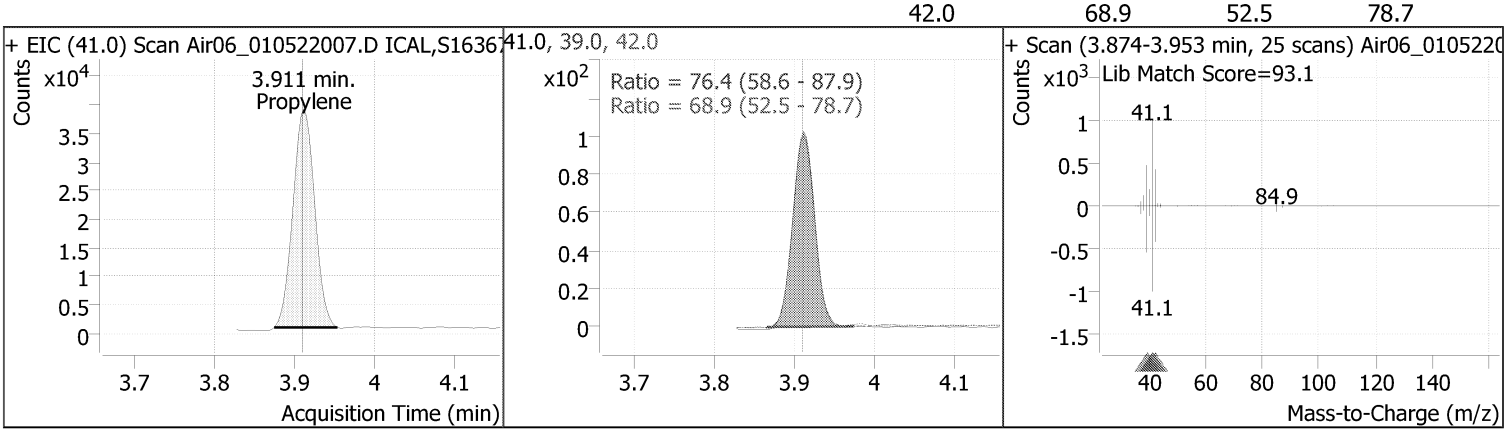

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 414050 | 10.0000 | nL/L | | 0.000 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1570031 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.010 | 82.0 | 821707 | 10.0000 | nL/L | # | -0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1107922 | 10.0138 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 100.14% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.911 | 41.0 | 72352 | 1.8119 | nL/L | | 96 |
| T Freon 12 | 3.982 | 85.0 | 188458 | 1.6904 | nL/L | | 99 |
| T Chloromethane | 4.138 | 50.0 | 87071 | 1.6454 | nL/L | | 99 |
| T Freon 114 | 4.241 | 135.0 | 132758 | 1.6801 | nL/L | | 98 |
| T Vinyl Chloride | 4.355 | 62.0 | 87428 | 1.6514 | nL/L | | 99 |
| T 1,3-Butadiene | 4.490 | 54.0 | 76291 | 1.7064 | nL/L | | 97 |
| T Butane | 4.546 | 43.0 | 146822 | 1.6603 | nL/L | | 98 |
| T Bromomethane | 4.746 | 96.0 | 65608 | 1.6979 | nL/L | | 98 |
| T Chloroethane | 4.908 | 64.0 | 43696 | 1.6800 | nL/L | | 99 |
| T Ethanol | 5.012 | 45.0 | 47736 | 1.9763 | nL/L | | 100 |
| T Vinyl bromide | 5.235 | 108.0 | 76813 | 1.6902 | nL/L | | 99 |
| T Acrolein | 5.335 | 56.0 | 37596 | 1.6572 | nL/L | | 99 |
| T Acetone | 5.461 | 58.0 | 50636 | 1.9280 | nL/L | | 98 |
| T Trichloromonofluoromethane | 5.623 | 101.0 | 223655 | 1.6806 | nL/L | | 99 |
| T Isopropanol (IPA) | 5.691 | 45.0 | 176278 | 1.9845 | nL/L | | 98 |
| T n-Pentane | 5.947 | 43.0 | 180968 | 1.6580 | nL/L | | 100 |
| T 1,1-Dichloroethene | 6.190 | 61.0 | 166720 | 1.6846 | nL/L | | 99 |
| T Tert-butyl alcohol (TBA) | 6.261 | 59.0 | 184254 | 1.6696 | nL/L | # | 95 |
| T Methylene Chloride | 6.280 | 84.0 | 79601 | 1.5861 | nL/L | | 98 |
| T 3-Chloropropene | 6.397 | 76.0 | 36368 | 1.6501 | nL/L | | 98 |
| T Freon 113 | 6.539 | 101.0 | 179212 | 1.6673 | nL/L | | 99 |
| T Carbon Disulfide | 6.572 | 76.0 | 233473 | 1.6759 | nL/L | | 100 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 139522 | 1.6829 | nL/L | | 99 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 169712 | 1.6720 | nL/L | | 100 |
| T MTBE | 7.381 | 73.0 | 223463 | 1.6620 | nL/L | | 97 |
| T Vinyl Acetate | 7.423 | 43.0 | 284192 | 1.4868 | nL/L | | 100 |
| T 2-Butanone | 7.649 | 43.0 | 218423 | 1.6592 | nL/L | | 96 |
| T cis-1,2-Dichloroethene | 8.035 | 61.0 | 137940 | 1.6461 | nL/L | | 98 |
| T Ethyl Acetate | 8.229 | 61.0 | 33774 | 1.6550 | nL/L | | 97 |
| T n-Hexane | 8.245 | 57.0 | 157035 | 1.6528 | nL/L | | 99 |
| T Chloroform | 8.290 | 83.0 | 179784 | 1.6832 | nL/L | | 99 |
| T Tetrahydrofuran | 8.672 | 72.0 | 38933 | 1.6586 | nL/L | | 97 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 131319 | 1.6759 | nL/L | | 99 |
| T 1,1,1-Trichloroethane | 9.197 | 97.0 | 172183 | 1.6750 | nL/L | | 98 |
| T Benzene | 9.608 | 78.0 | 255957 | 1.6524 | nL/L | | 98 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 184395 | 1.6854 | nL/L | | 99 |
| T Cyclohexane | 9.867 | 84.0 | 106872 | 1.6317 | nL/L | | 90 |
| T 1,2-Dichloropropane | 10.342 | 63.0 | 111932 | 1.6984 | nL/L | | 99 |
| T Methane, bromodichloro- | 10.501 | 83.0 | 184689 | 1.7033 | nL/L | | 98 |
| T 1,4-Dioxane | 10.556 | 88.0 | 58351 | 1.6683 | nL/L | | 95 |
| T Trichloroethene | 10.556 | 132.0 | 114155 | 1.6717 | nL/L | | 96 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 512569 | 1.6539 | nL/L | | 99 |
| T Methyl methacrylate | 10.718 | 69.0 | 94169 | 1.6892 | nL/L | | 97 |
| T n-Heptane | 10.834 | 71.0 | 87185 | 1.6620 | nL/L | | 98 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 35364 | 1.6923 | nL/L | # | 78 |
| T 4-Methyl-2-Pentanone | 11.391 | 58.0 | 94999 | 1.6202 | nL/L | | 99 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 35728 | 1.6855 | nL/L | | 93 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 107160 | 1.7067 | nL/L | | 98 |
| T Toluene | 12.275 | 91.0 | 324227 | 1.6624 | nL/L | | 99 |
| T TPH Gasoline (C3 to C12) | 12.396 | 165.0 | 45034120 | 2.9982 | nL/L | | 100 |
| T 2-Hexanone | 12.524 | 58.0 | 123420 | 1.6975 | nL/L | | 99 |
| T Dibromochloromethane | 12.666 | 129.0 | 193752 | 1.7069 | nL/L | | 100 |
| T 1,2-Dibromoethane | 12.912 | 108.9 | 164820 | 1.7003 | nL/L | | 99 |
| T Tetrachloroethene | 13.378 | 166.0 | 167238 | 1.6776 | nL/L | | 98 |
| T 1,1,1,2-Tetrachloroethane | 14.032 | 131.0 | 128293 | 1.7125 | nL/L | # | 96 |
| T Benzene, chloro- | 14.055 | 112.0 | 251505 | 1.6650 | nL/L | | 99 |
| T Ethylbenzene | 14.440 | 91.0 | 400204 | 1.6747 | nL/L | | 98 |
| T TPH Gasoline (C6 to C12) | 14.521 | 165.0 | 33519031 | 3.1738 | nL/L | | 100 |
| T m,p-Xylenes | 14.628 | 91.0 | 649091 | 3.3512 | nL/L | | 97 |
| T Bromoform | 14.693 | 173.0 | 220062 | 1.7125 | nL/L | | 100 |
| T Styrene | 15.003 | 104.0 | 252653 | 1.6663 | nL/L | | 97 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 243799 | 1.6881 | nL/L | | 100 |
| T o-Xylene | 15.123 | 91.0 | 333329 | 1.6741 | nL/L | | 98 |
| T n-Nonane | 15.363 | 85.0 | 75469 | 1.6547 | nL/L | | 98 |
| T Isopropylbenzene | 15.770 | 105.0 | 455244 | 1.6750 | nL/L | | 98 |
| T 2-Chlorotoluene | 16.314 | 126.0 | 115797 | 1.6802 | nL/L | | 93 |
| T n-Propylbenzene | 16.359 | 120.0 | 125521 | 1.6637 | nL/L | | 89 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 452867 | 1.7016 | nL/L | | 97 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 390108 | 1.6884 | nL/L | | 97 |
| T 1,2,4-Trimethylbenzene | 17.133 | 105.0 | 389665 | 1.7124 | nL/L | | 98 |
| T Benzyl chloride | 17.295 | 91.0 | 336839 | 1.7989 | nL/L | | 98 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 265676 | 1.6972 | nL/L | | 99 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 270391 | 1.7106 | nL/L | | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 258996 | 1.7061 | nL/L | | 99 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 203521 | 1.7929 | nL/L | | 100 |
| T Naphthalene | 20.532 | 128.0 | 425327 | 1.7930 | nL/L | | 99 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.114 | 225.0 | 226266 | 1.6901 | nL/L | | 99 |

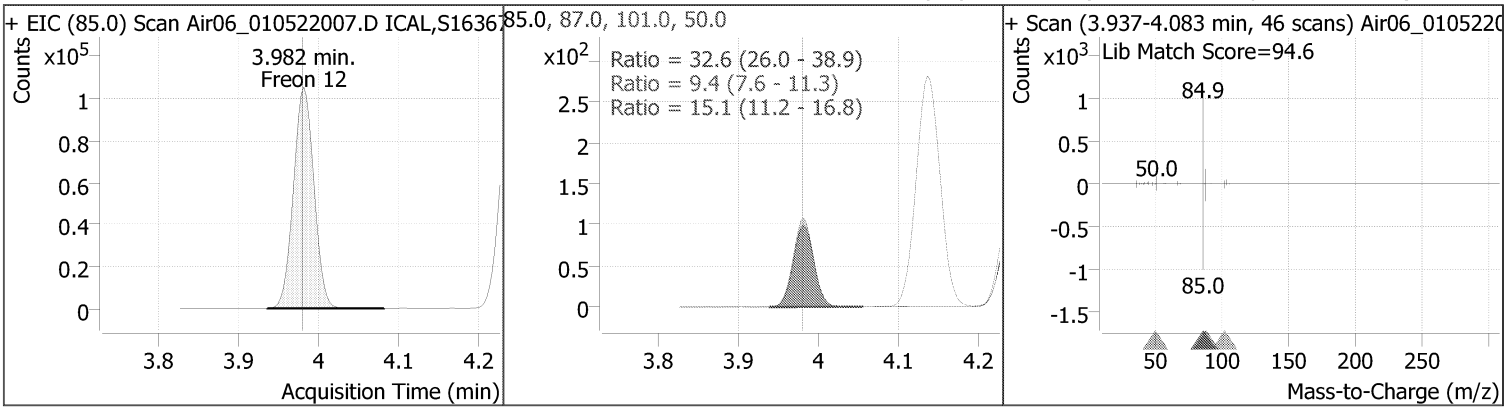
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

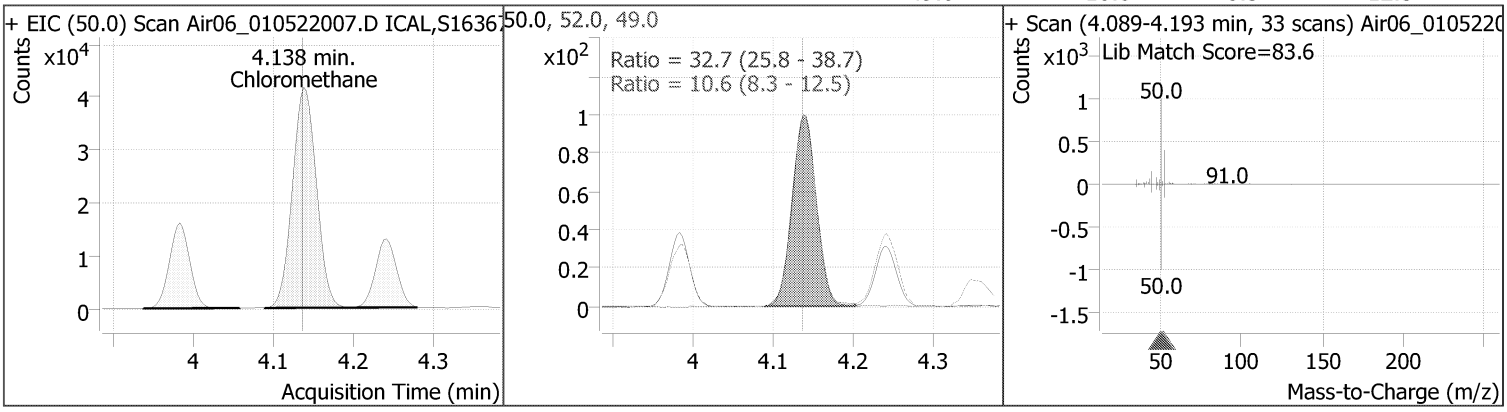
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 1.8119 | 3.91 | 0.00 | 72352 | 39.0 | 76.4 | 58.6 | 87.9 |
| | | | | | 42.0 | 68.9 | 52.5 | 78.7 |



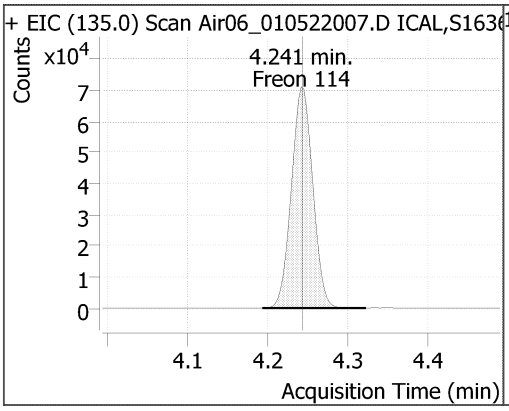

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 1.6904 | 3.98 | 0.00 | 188458 | 87.0 | 32.6 | 26.0 | 38.9 |
| | | | | | 50.0 | 15.1 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.4 | 7.6 | 11.3 |

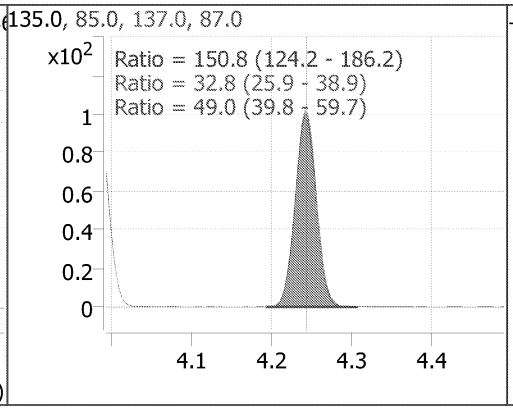


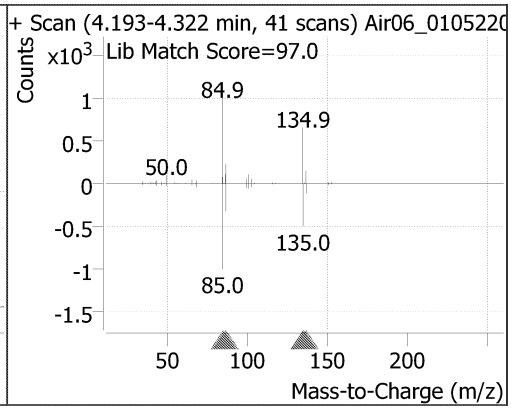

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 1.6454 | 4.14 | 0.00 | 87071 | 52.0 | 32.7 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.6 | 8.3 | 12.5 |



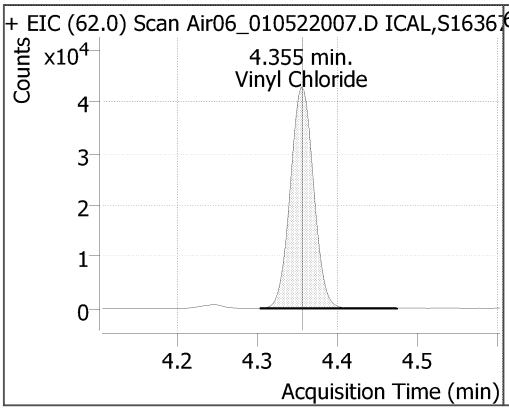
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 1.6801 | 4.24 | 0.00 | 132758 | 85.0 | 150.8 | 124.2 | 186.2 |
| | | | | | 87.0 | 49.0 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.8 | 25.9 | 38.9 |

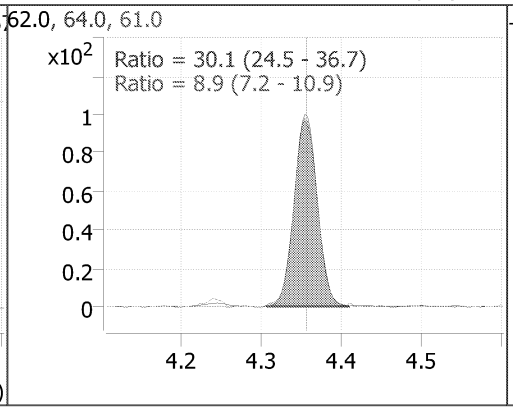


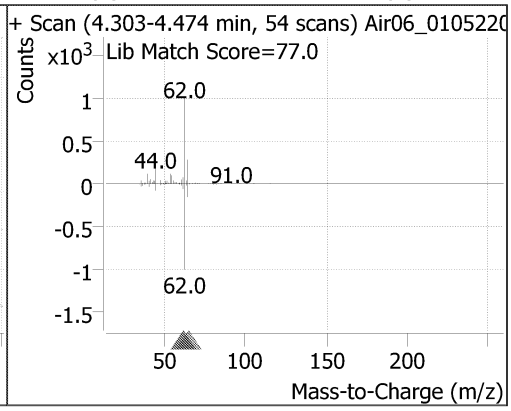



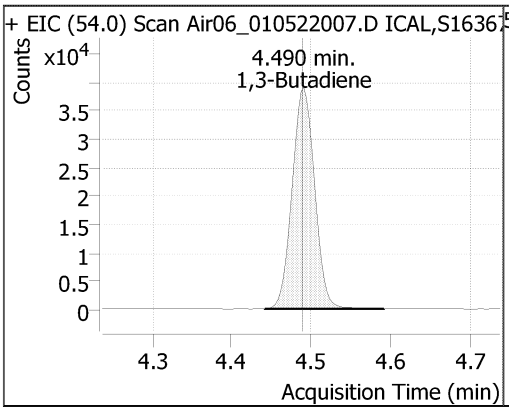

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 1.6514 | 4.35 | 0.00 | 87428 | 64.0 | 30.1 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.9 | 7.2 | 10.9 |

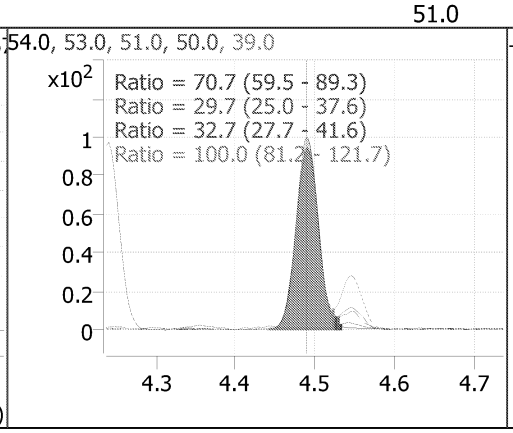


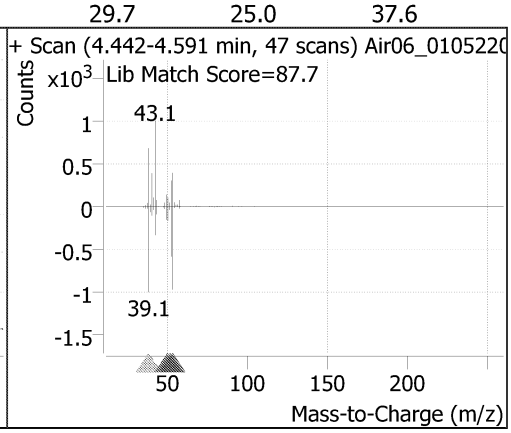



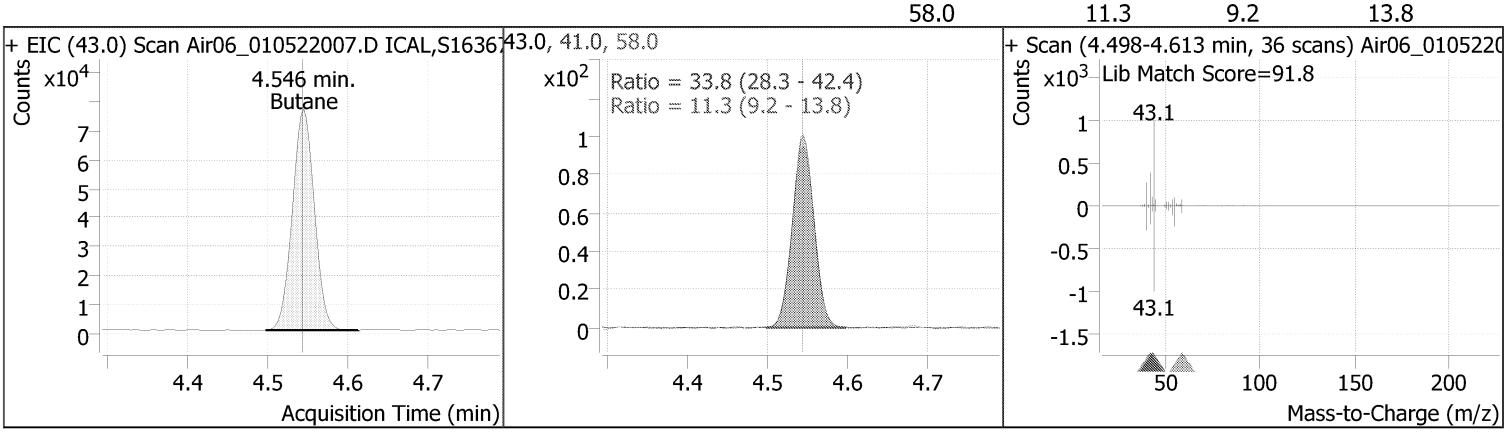

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 1.7064 | 4.49 | 0.00 | 76291 | 39.0 | 100.0 | 81.2 | 121.7 |
| | | | | | 53.0 | 70.7 | 59.5 | 89.3 |
| | | | | | 50.0 | 32.7 | 27.7 | 41.6 |
| | | | | | 51.0 | 29.7 | 25.0 | 37.6 |



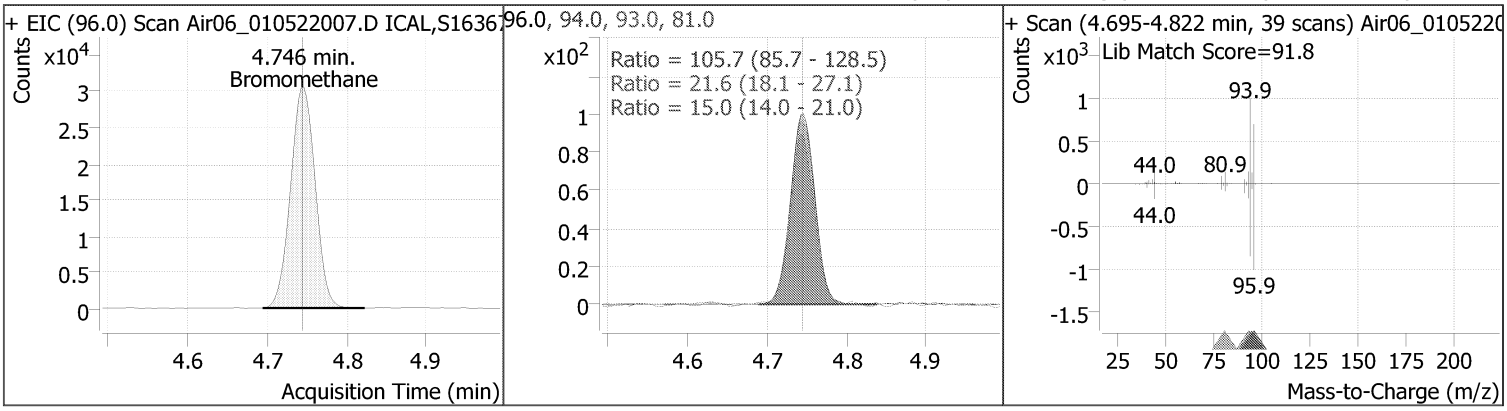



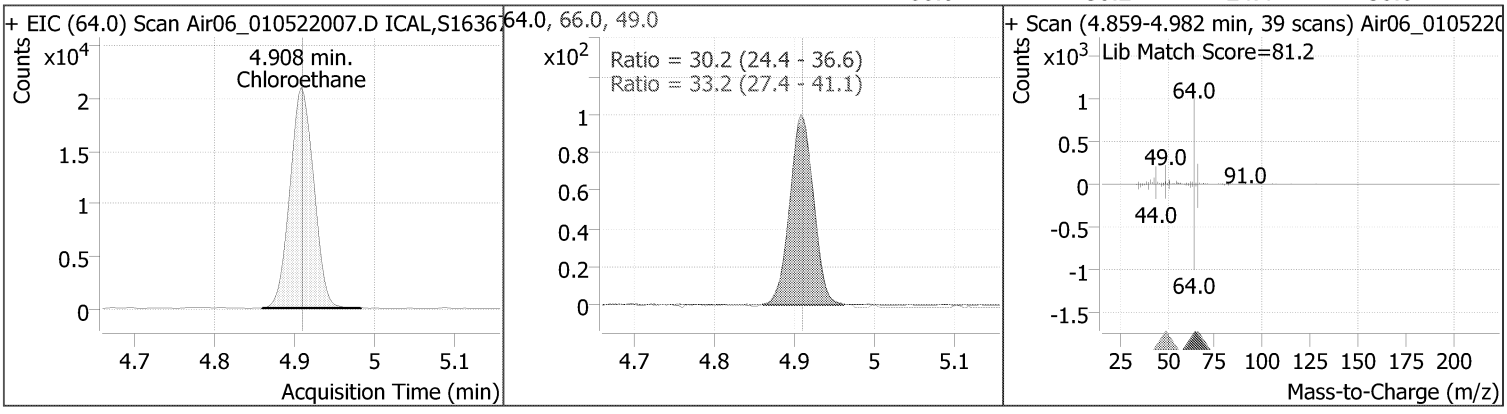
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 1.6603 | 4.55 | 0.00 | 146822 | 41.0 | 33.8 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.3 | 9.2 | 13.8 |



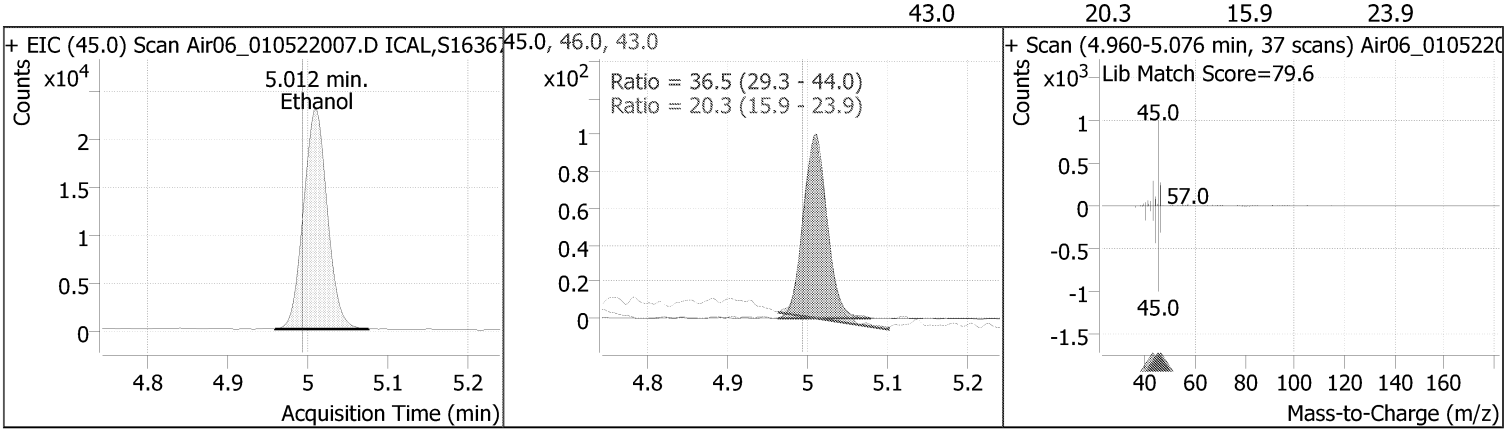

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 1.6979 | 4.75 | 0.00 | 65608 | 94.0 | 105.7 | 85.7 | 128.5 |
| | | | | | 93.0 | 21.6 | 18.1 | 27.1 |
| | | | | | 81.0 | 15.0 | 14.0 | 21.0 |



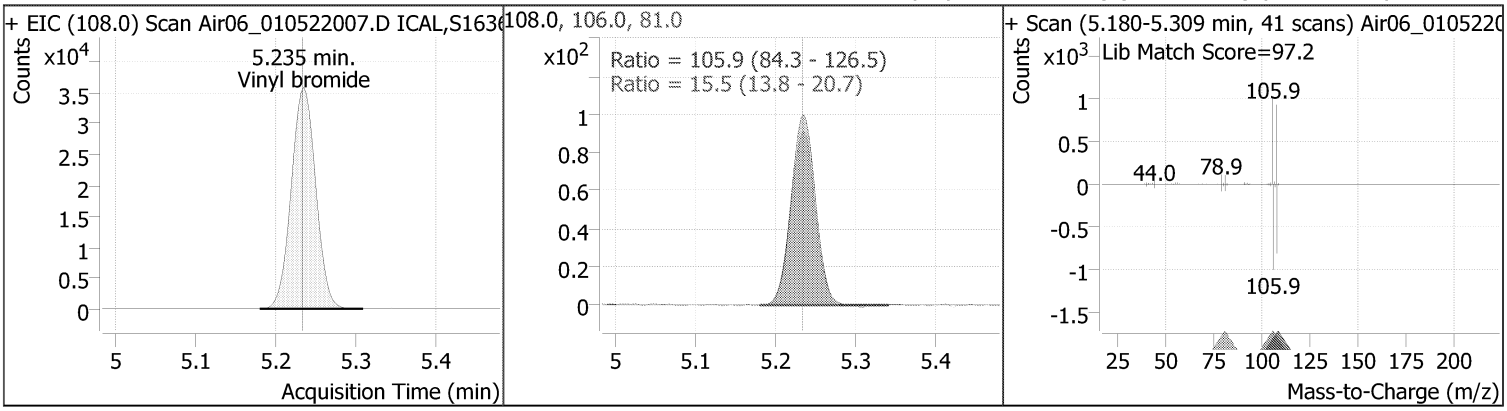

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 1.6800 | 4.91 | 0.00 | 43696 | 49.0 | 33.2 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.2 | 24.4 | 36.6 |



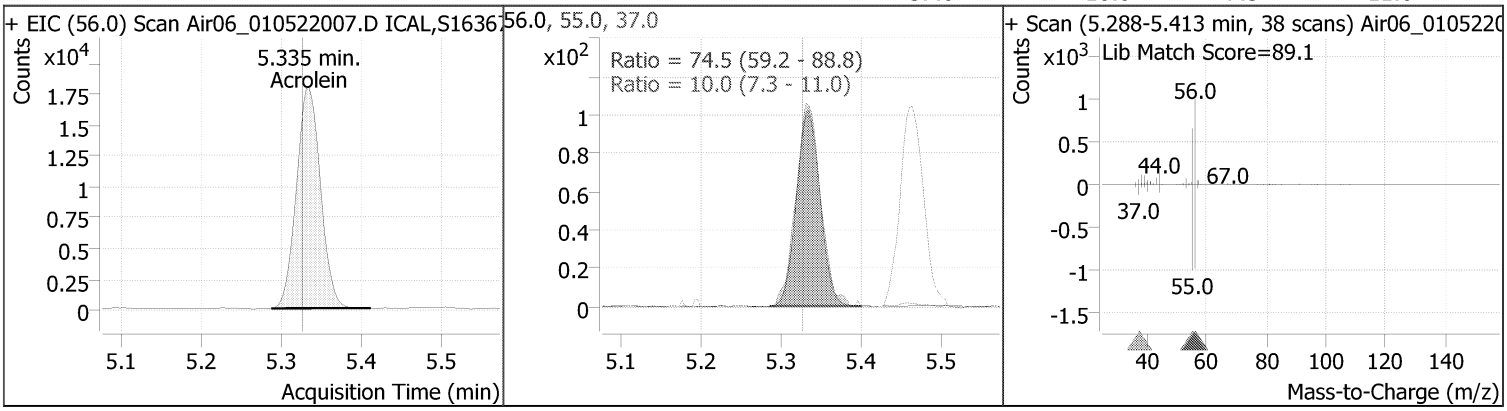
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 1.9763 | 5.01 | 0.02 | 47736 | 46.0 | 36.5 | 29.3 | 44.0 |
| | | | | | 43.0 | 20.3 | 15.9 | 23.9 |



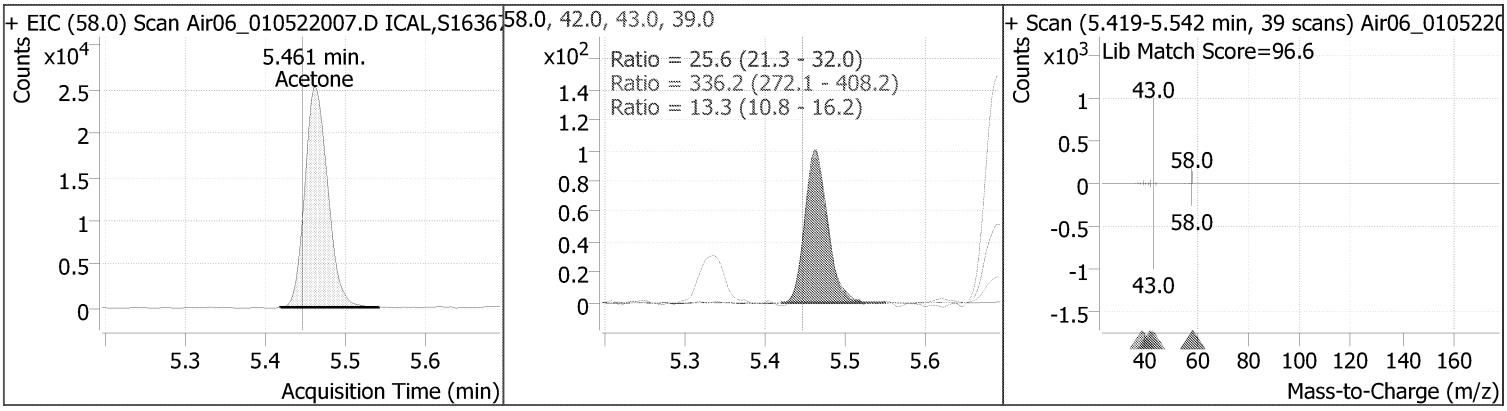

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 1.6902 | 5.23 | 0.00 | 76813 | 106.0 | 105.9 | 84.3 | 126.5 |
| | | | | | 81.0 | 15.5 | 13.8 | 20.7 |



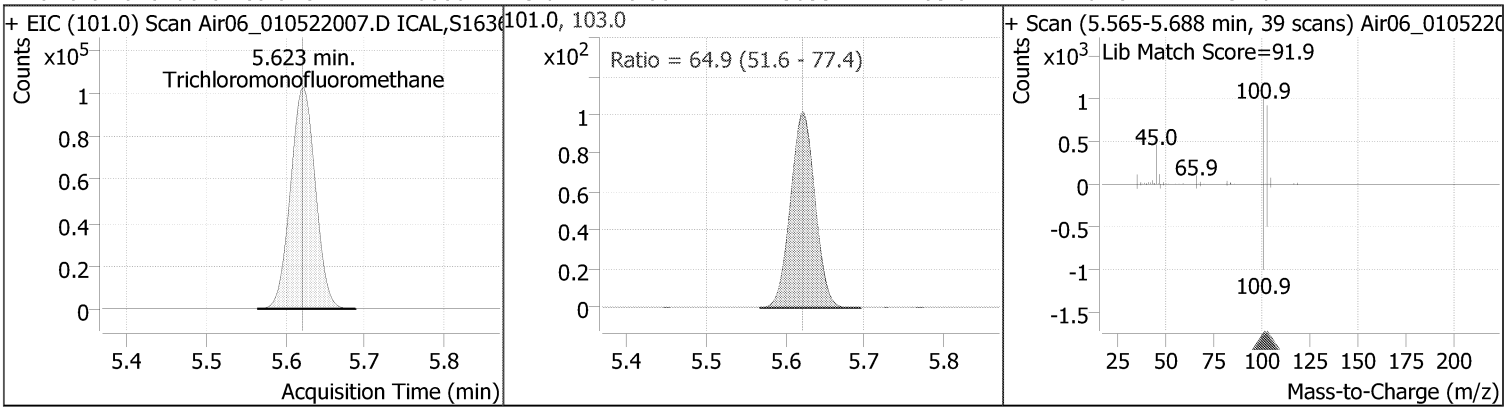

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 1.6572 | 5.34 | 0.01 | 37596 | 55.0 | 74.5 | 59.2 | 88.8 |
| | | | | | 37.0 | 10.0 | 7.3 | 11.0 |



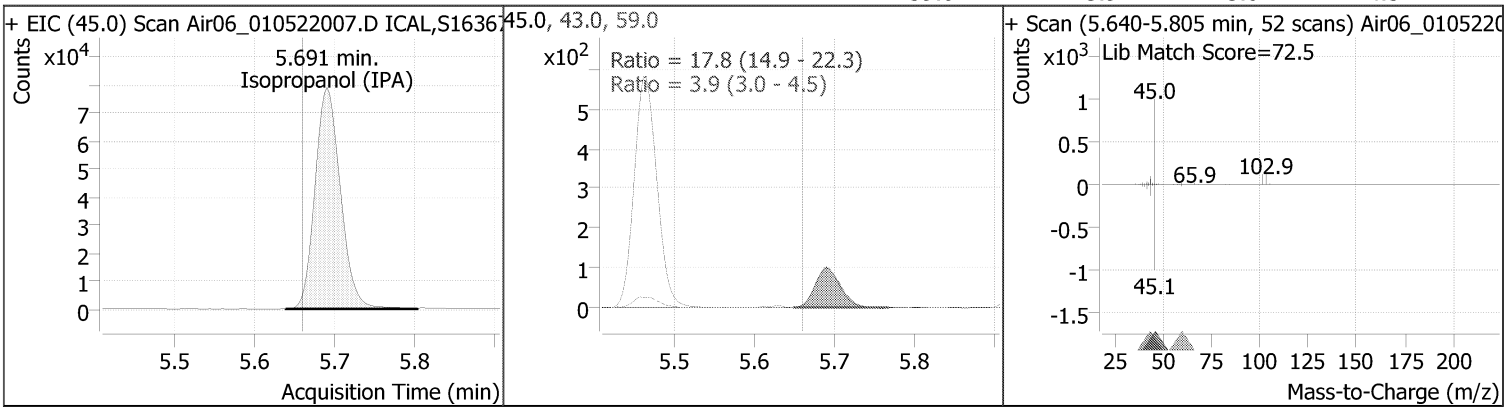
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 1.9280 | 5.46 | 0.02 | 50636 | 43.0 | 336.2 | 272.1 | 408.2 |
| | | | | | 42.0 | 25.6 | 21.3 | 32.0 |
| | | | | | 39.0 | 13.3 | 10.8 | 16.2 |



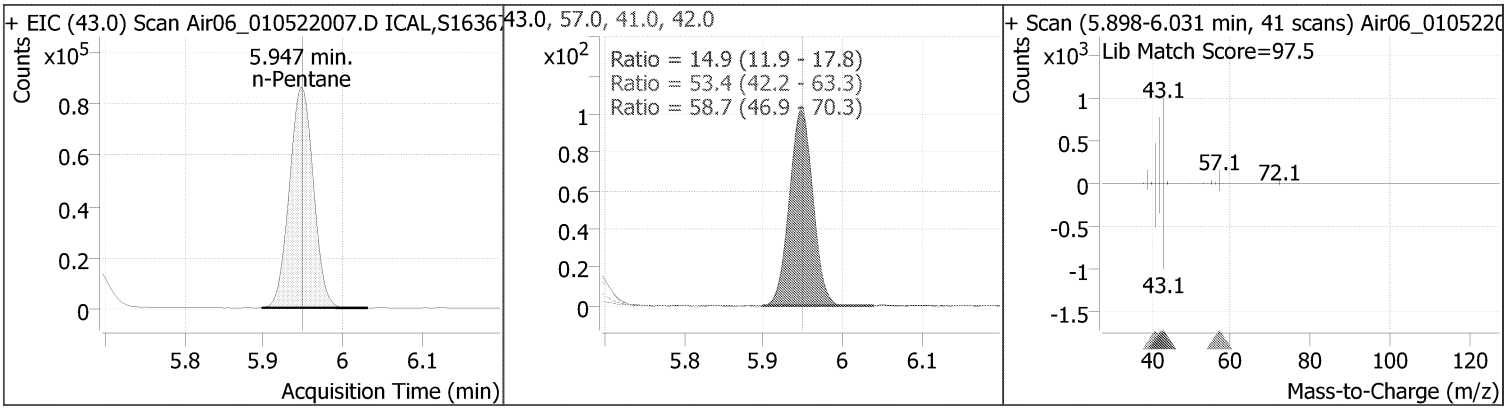

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 1.6806 | 5.62 | 0.00 | 223655 | 103.0 | 64.9 | 51.6 | 77.4 |



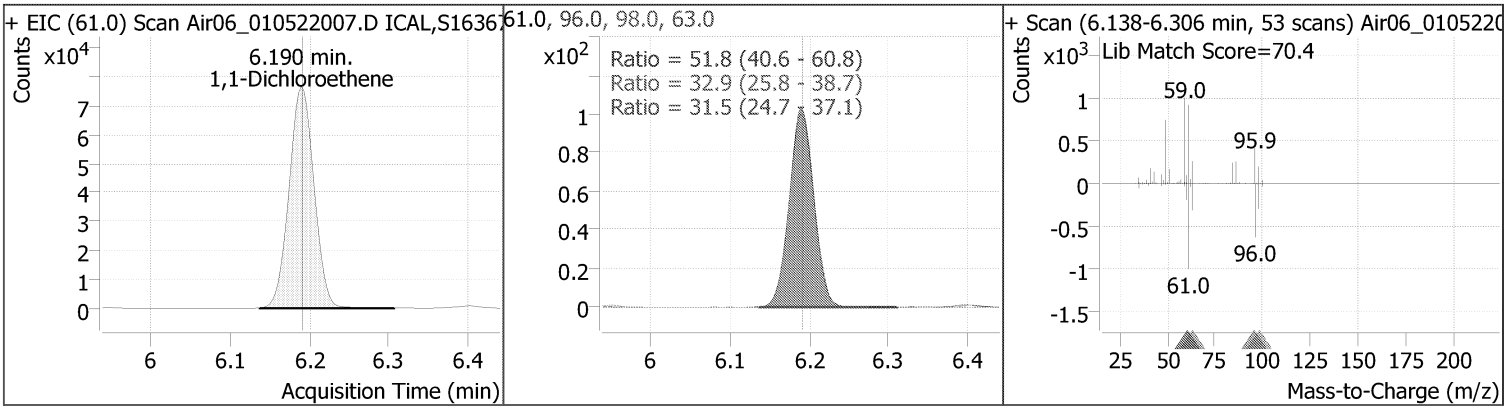

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 1.9845 | 5.69 | 0.03 | 176278 | 43.0 | 17.8 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.9 | 3.0 | 4.5 |



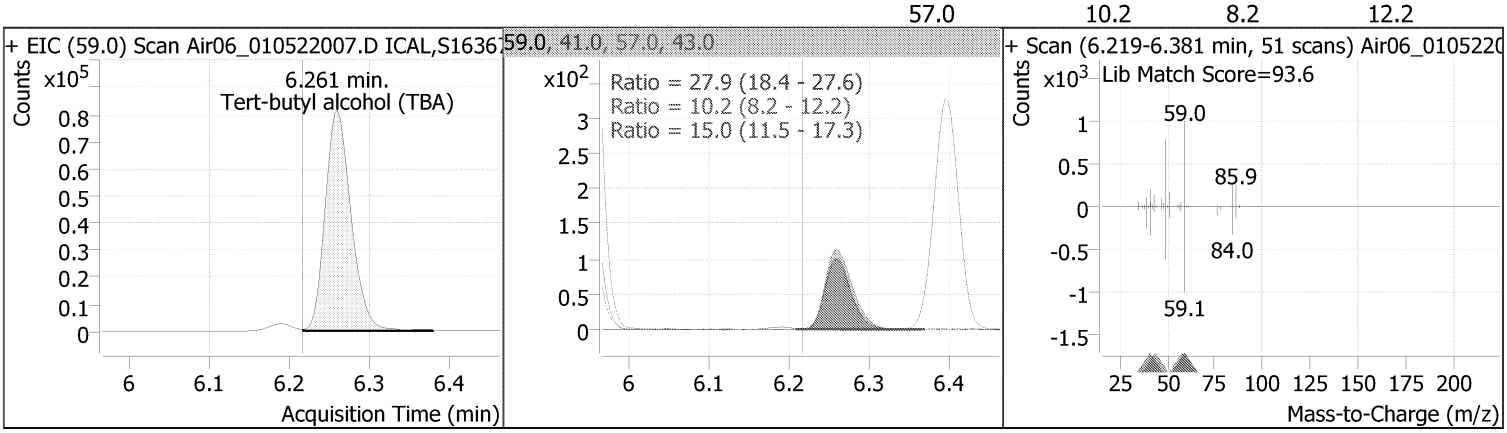
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 1.6580 | 5.95 | 0.00 | 180968 | 42.0 | 58.7 | 46.9 | 70.3 |
| | | | | | 41.0 | 53.4 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.9 | 11.9 | 17.8 |



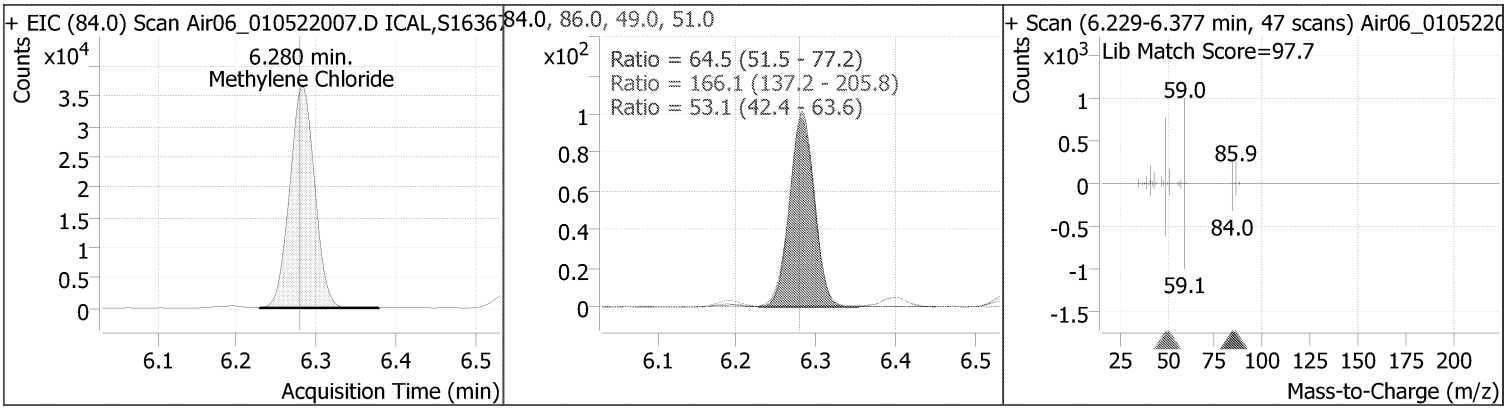

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 1.6846 | 6.19 | 0.00 | 166720 | 96.0 | 51.8 | 40.6 | 60.8 |
| | | | | | 98.0 | 32.9 | 25.8 | 38.7 |
| | | | | | 63.0 | 31.5 | 24.7 | 37.1 |



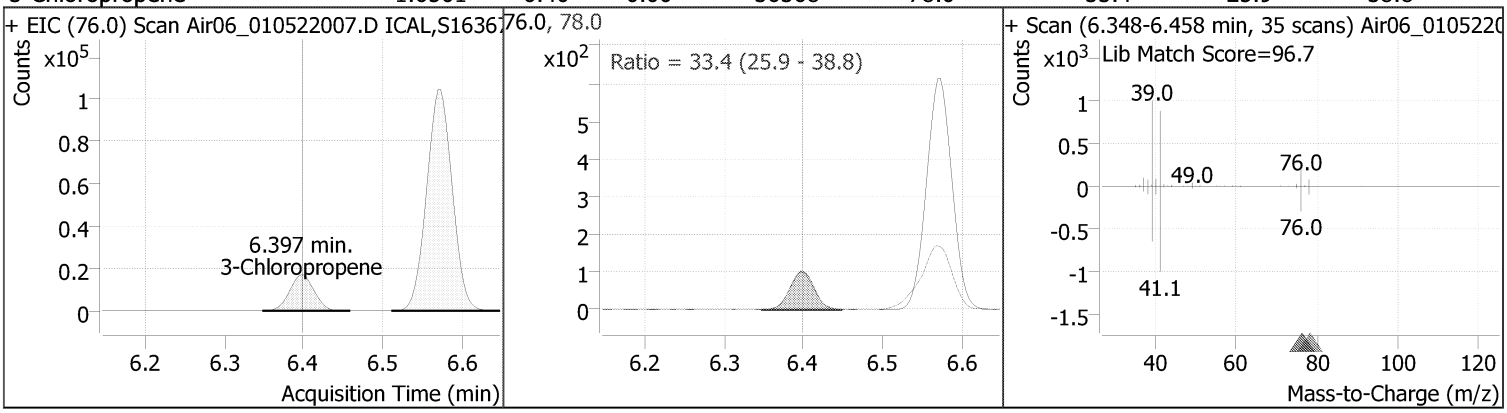

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 1.6696 | 6.26 | 0.05 | 184254 | 41.0 | 27.9 | 18.4 | 27.6 |
| | | | | | 43.0 | 15.0 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.2 | 8.2 | 12.2 |



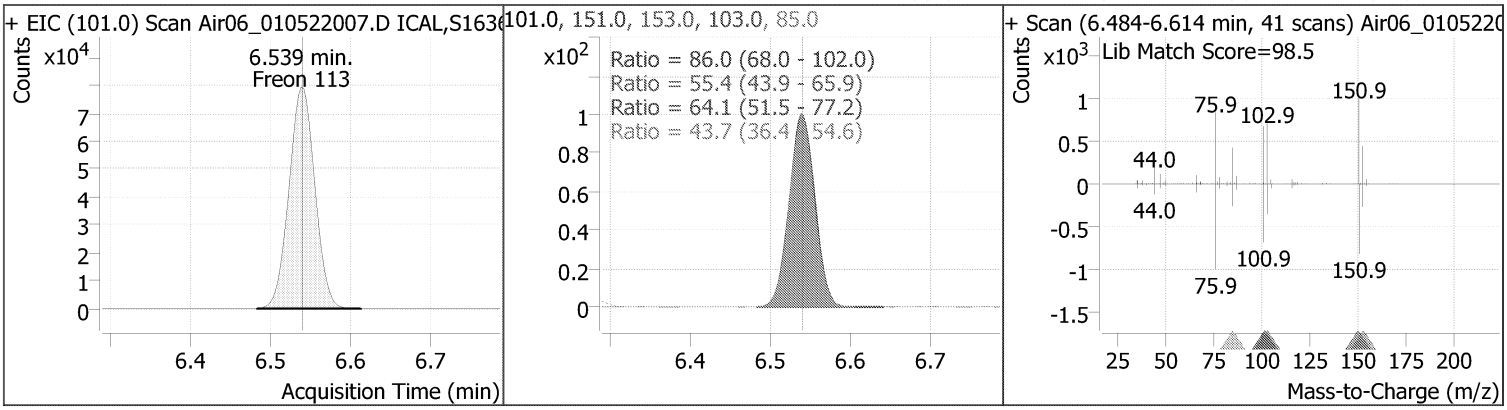
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 1.5861 | 6.28 | 0.00 | 79601 | 49.0 | 166.1 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.5 | 51.5 | 77.2 |
| | | | | | 51.0 | 53.1 | 42.4 | 63.6 |



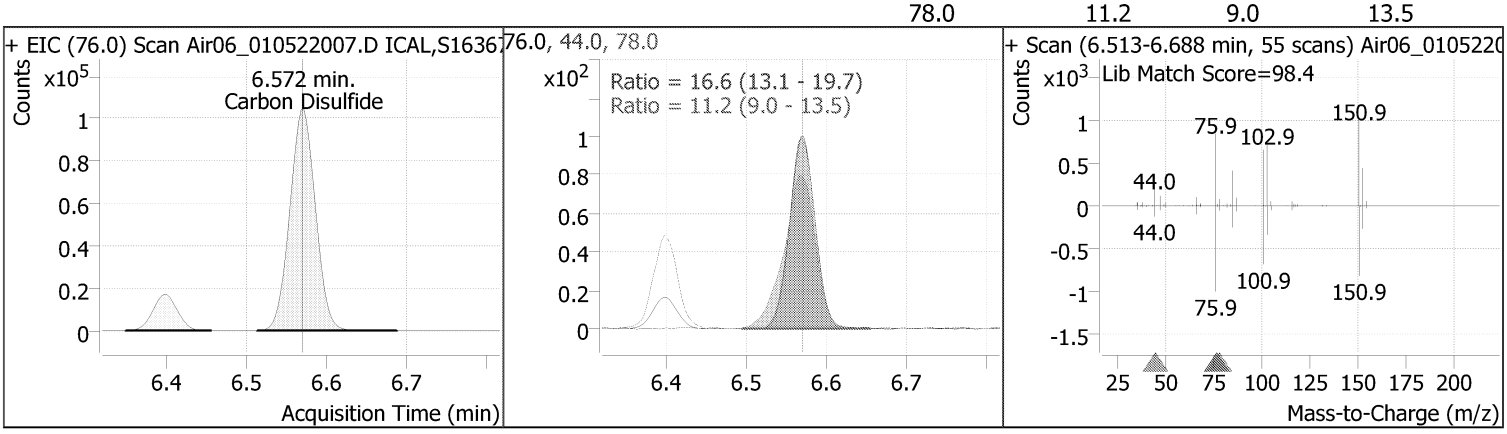

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 1.6501 | 6.40 | 0.00 | 36368 | 78.0 | 33.4 | 25.9 | 38.8 |



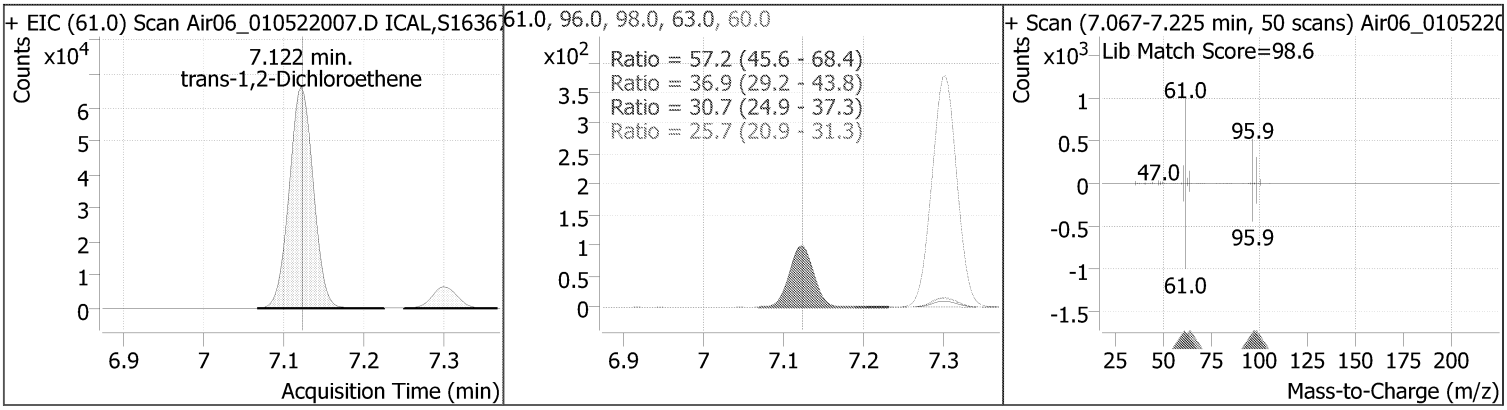

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 1.6673 | 6.54 | 0.00 | 179212 | 151.0 | 86.0 | 68.0 | 102.0 |
| | | | | | 103.0 | 64.1 | 51.5 | 77.2 |
| | | | | | 153.0 | 55.4 | 43.9 | 65.9 |
| | | | | | 85.0 | 43.7 | 36.4 | 54.6 |



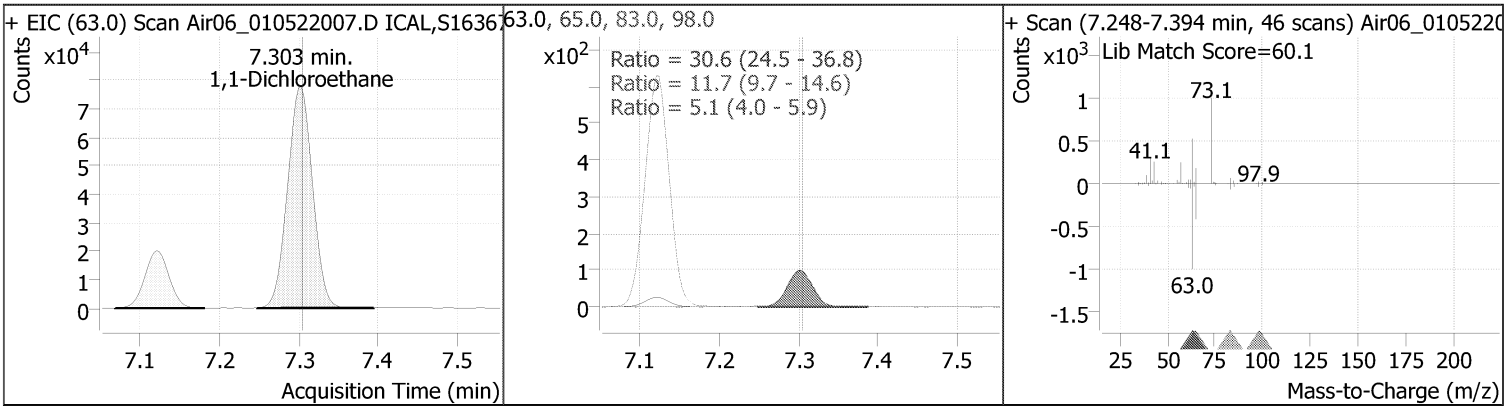
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 1.6759 | 6.57 | 0.00 | 233473 | 44.0 | 16.6 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.2 | 9.0 | 13.5 |



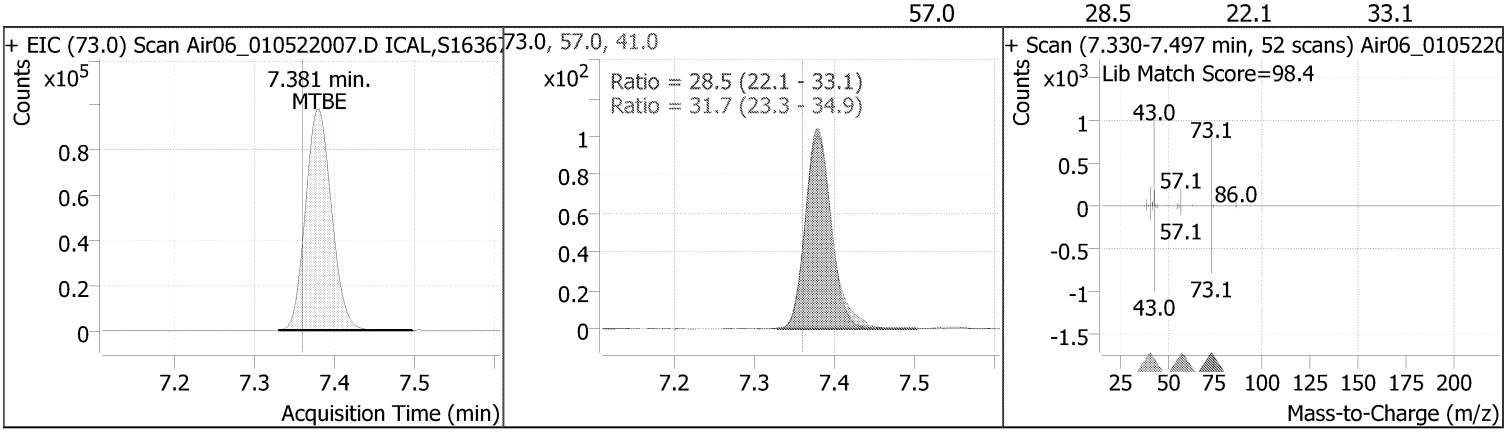

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 1.6829 | 7.12 | 0.00 | 139522 | 96.0 | 57.2 | 45.6 | 68.4 |
| | | | | | 98.0 | 36.9 | 29.2 | 43.8 |
| | | | | | 63.0 | 30.7 | 24.9 | 37.3 |
| | | | | | 60.0 | 25.7 | 20.9 | 31.3 |



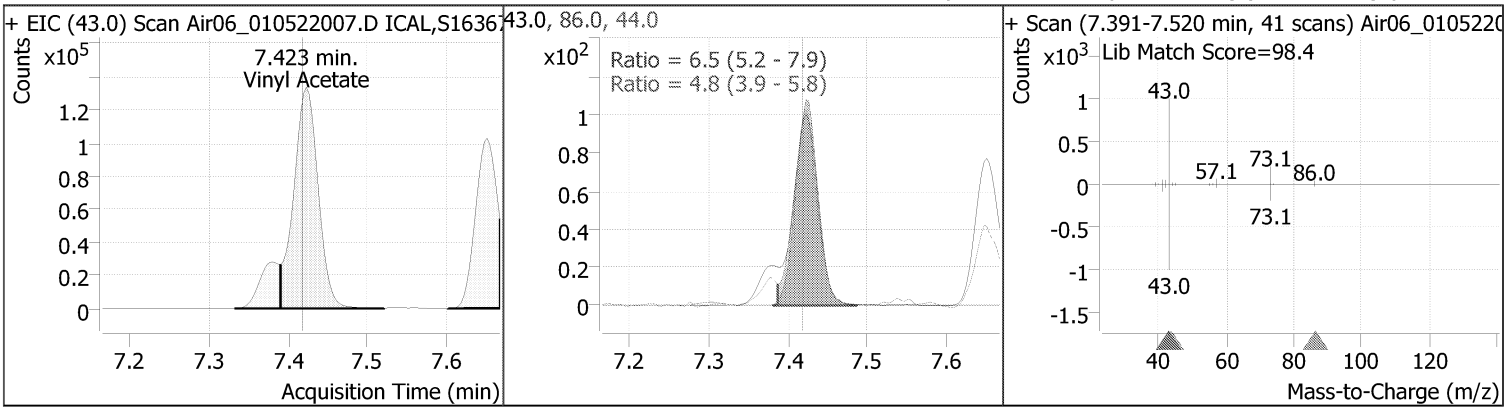

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 1.6720 | 7.30 | 0.00 | 169712 | 65.0 | 30.6 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.7 | 9.7 | 14.6 |
| | | | | | 98.0 | 5.1 | 4.0 | 5.9 |



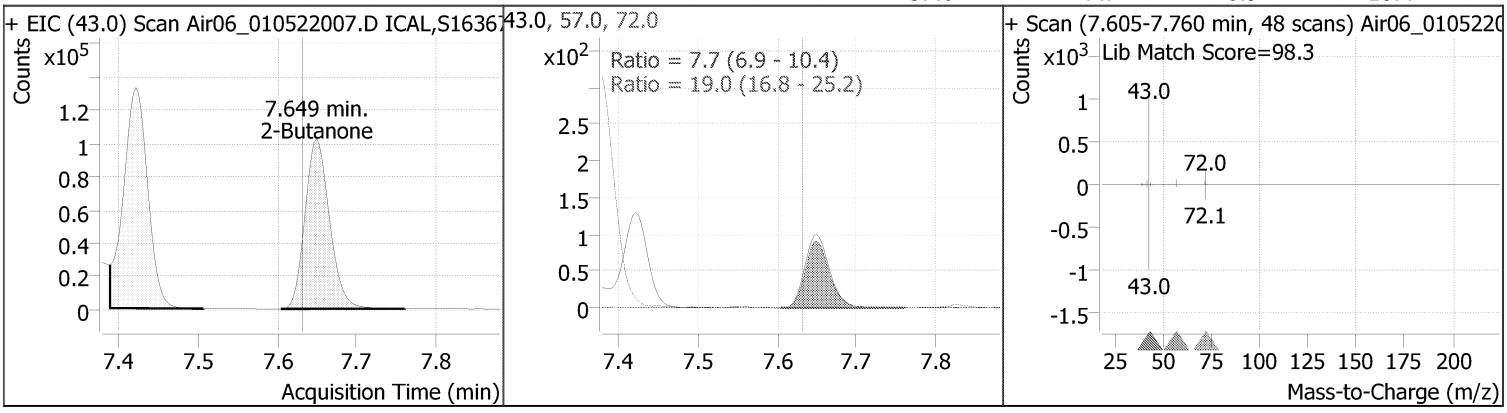
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 1.6620 | 7.38 | 0.02 | 223463 | 41.0 | 31.7 | 23.3 | 34.9 |
| | | | | | 57.0 | 28.5 | 22.1 | 33.1 |



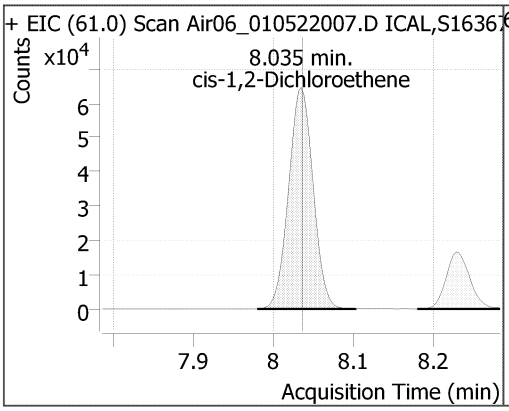

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 1.4868 | 7.42 | 0.01 | 284192 | 86.0 | 6.5 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.8 | 3.9 | 5.8 |

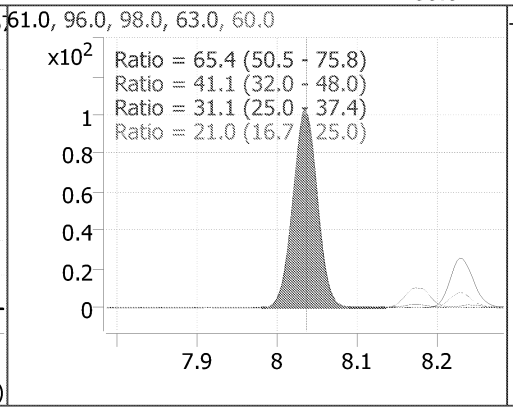


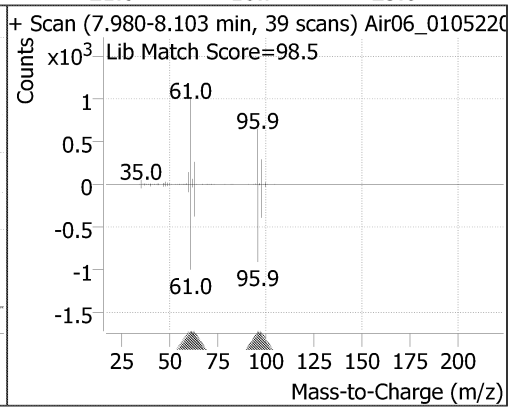

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 1.6592 | 7.65 | 0.02 | 218423 | 72.0 | 19.0 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.7 | 6.9 | 10.4 |



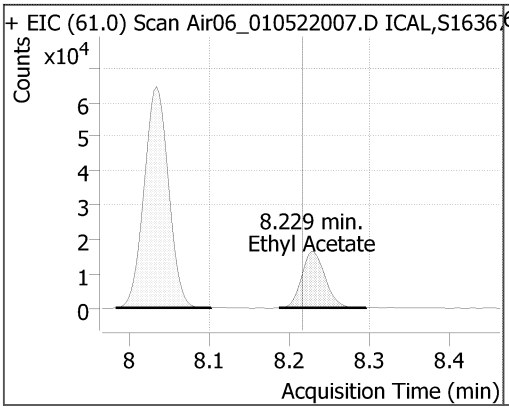
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 1.6461 | 8.03 | 0.00 | 137940 | 96.0 | 65.4 | 50.5 | 75.8 |
| | | | | | 98.0 | 41.1 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.1 | 25.0 | 37.4 |
| | | | | | 60.0 | 21.0 | 16.7 | 25.0 |

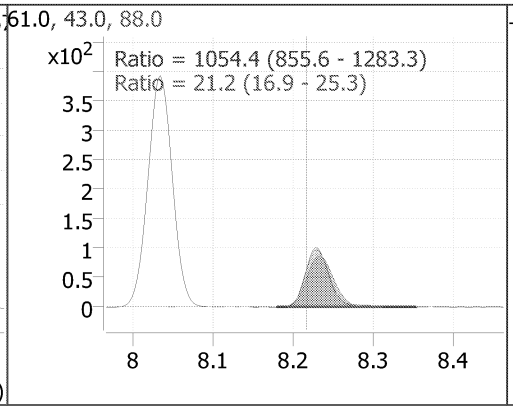


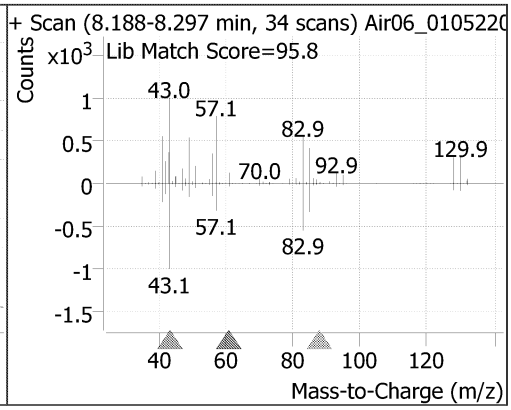



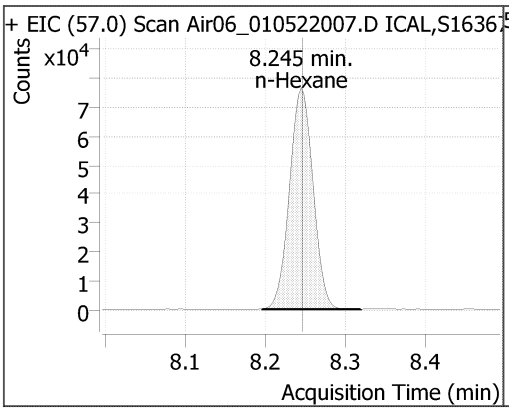

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 1.6550 | 8.23 | 0.01 | 33774 | 43.0 | 1054.4 | 855.6 | 1283.3 |
| | | | | | 88.0 | 21.2 | 16.9 | 25.3 |

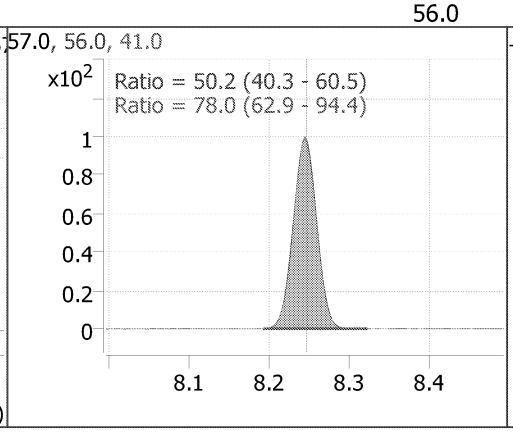


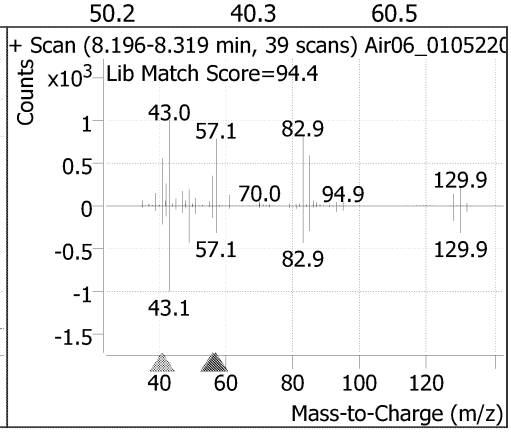



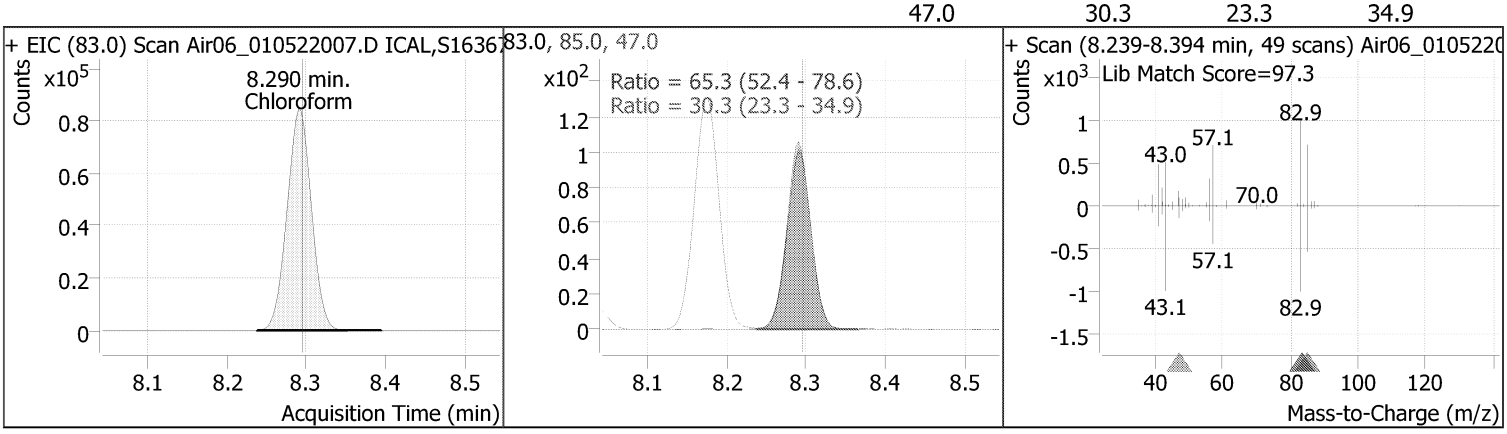

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 1.6528 | 8.25 | 0.00 | 157035 | 41.0 | 78.0 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.2 | 40.3 | 60.5 |



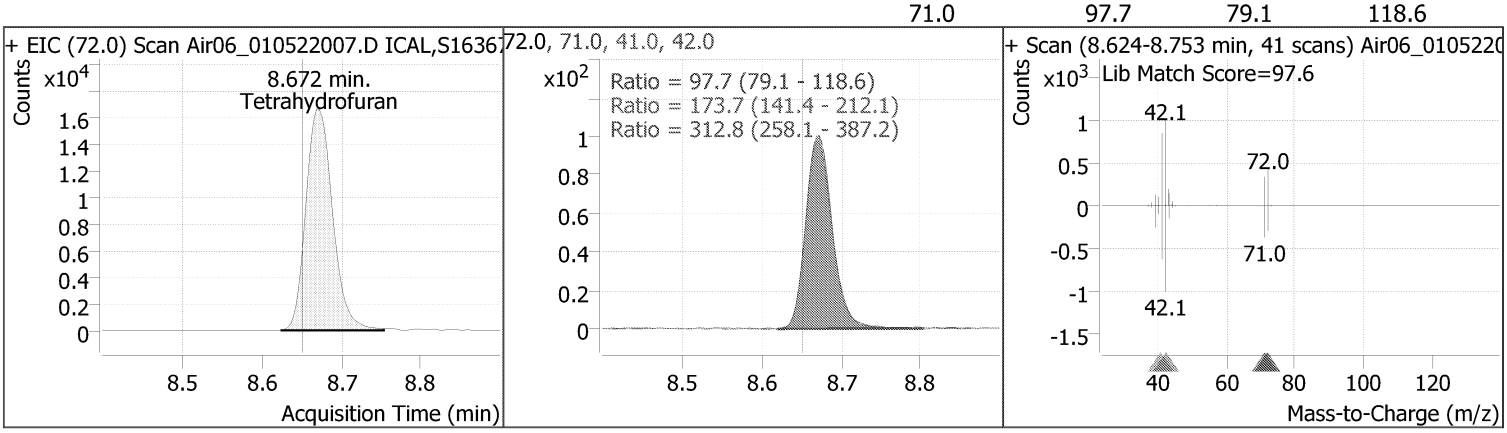



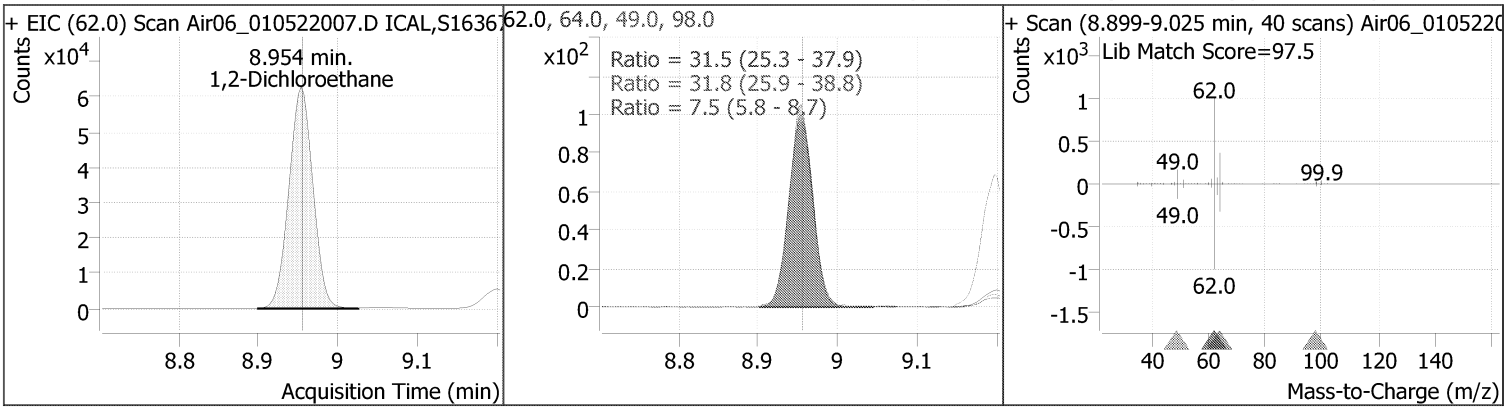
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 1.6832 | 8.29 | 0.00 | 179784 | 85.0 | 65.3 | 52.4 | 78.6 |
| | | | | | 47.0 | 30.3 | 23.3 | 34.9 |



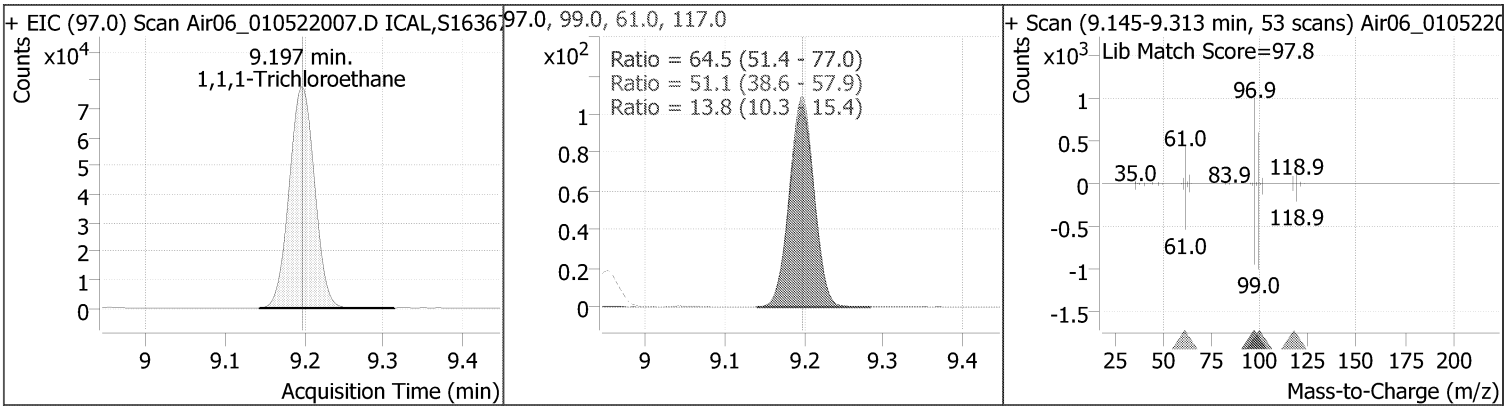

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 1.6586 | 8.67 | 0.02 | 38933 | 42.0 | 312.8 | 258.1 | 387.2 |
| | | | | | 41.0 | 173.7 | 141.4 | 212.1 |
| | | | | | 71.0 | 97.7 | 79.1 | 118.6 |



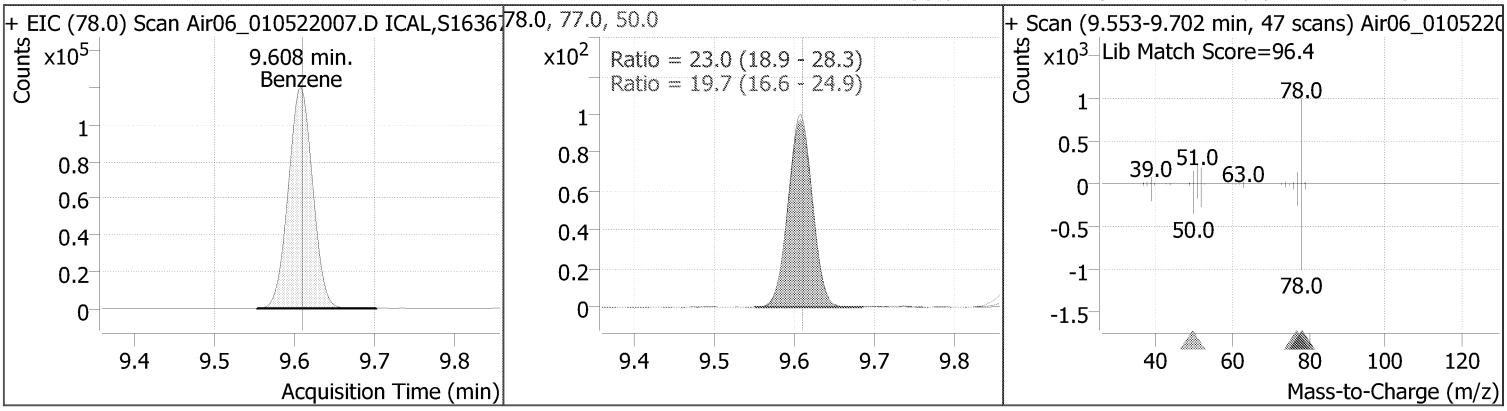

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 1.6759 | 8.95 | 0.00 | 131319 | 49.0 | 31.8 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.5 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.5 | 5.8 | 8.7 |



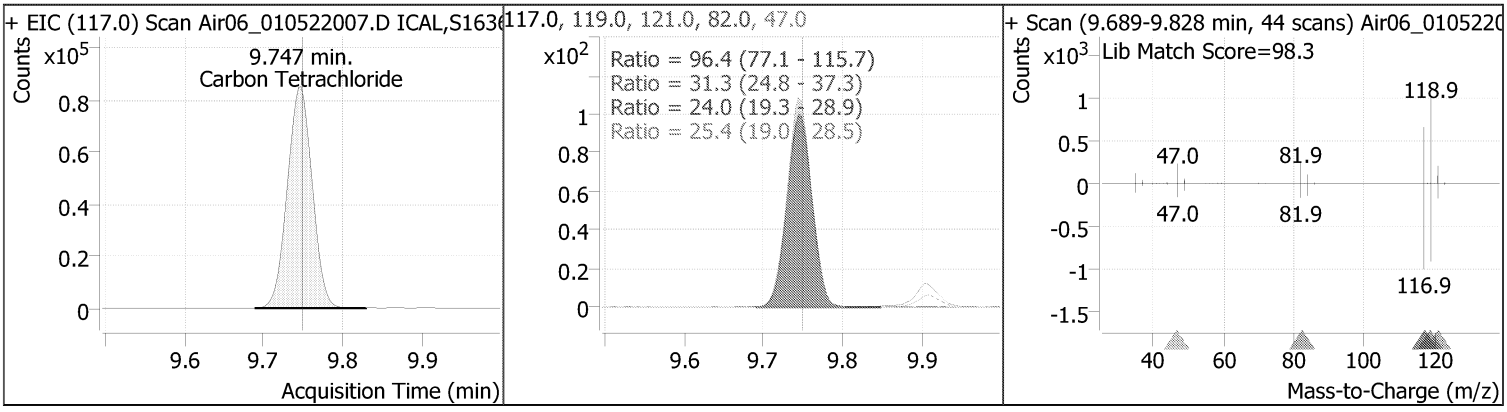
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1.6750 | 9.20 | 0.00 | 172183 | 99.0 | 64.5 | 51.4 | 77.0 |
| | | | | | 61.0 | 51.1 | 38.6 | 57.9 |
| | | | | | 117.0 | 13.8 | 10.3 | 15.4 |



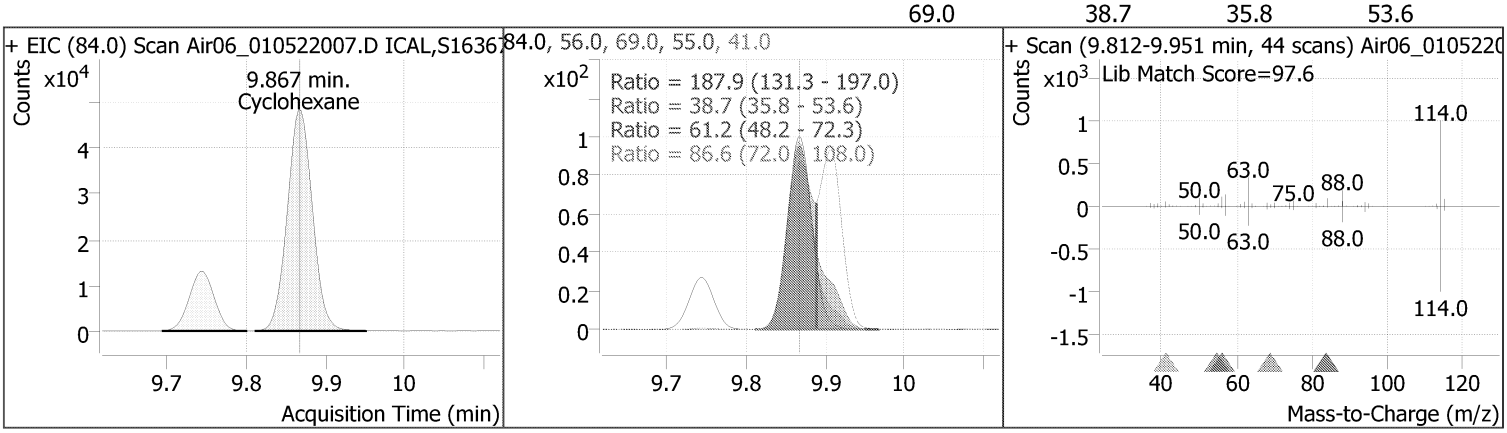

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 1.6524 | 9.61 | 0.00 | 255957 | 77.0 | 23.0 | 18.9 | 28.3 |
| | | | | | 50.0 | 19.7 | 16.6 | 24.9 |



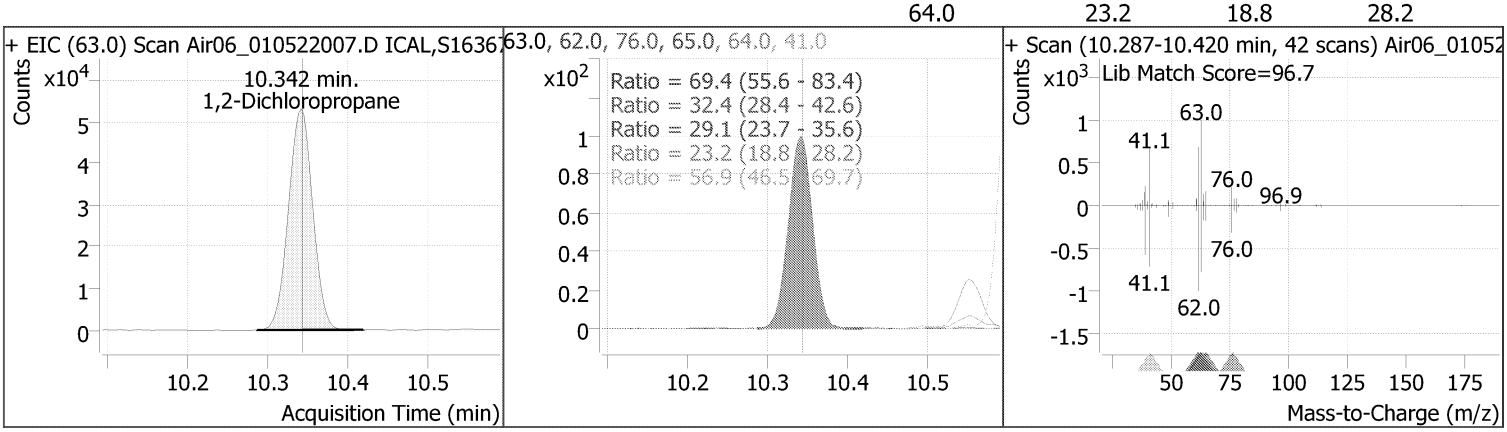

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 1.6854 | 9.75 | 0.00 | 184395 | 119.0 | 96.4 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.3 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.0 | 19.3 | 28.9 |
| | | | | | 47.0 | 25.4 | 19.0 | 28.5 |



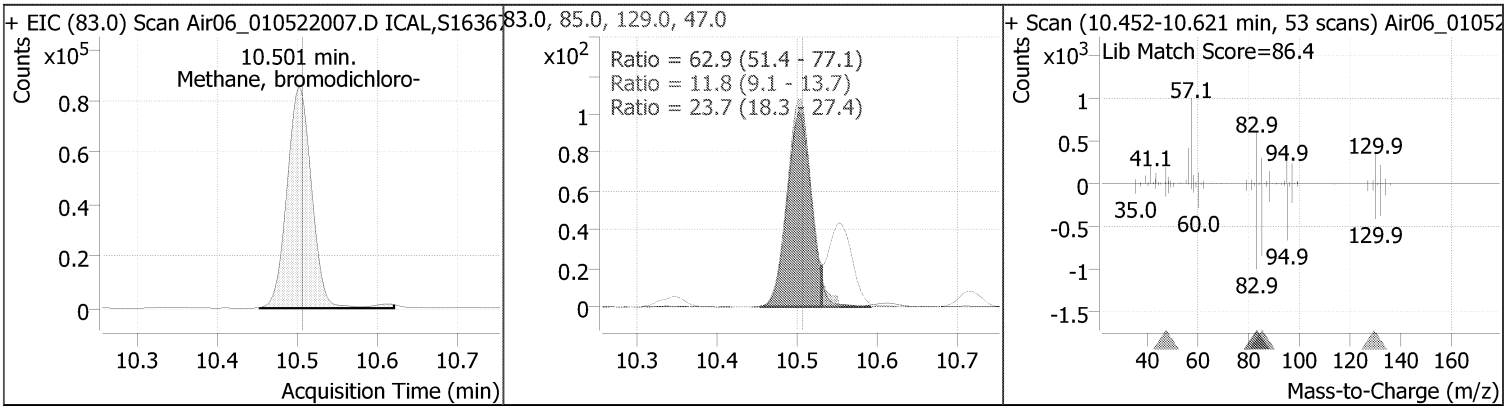
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 1.6317 | 9.87 | 0.00 | 106872 | 56.0 | 187.9 | 131.3 | 197.0 |
| | | | | | 41.0 | 86.6 | 72.0 | 108.0 |
| | | | | | 55.0 | 61.2 | 48.2 | 72.3 |
| | | | | | 69.0 | 38.7 | 35.8 | 53.6 |



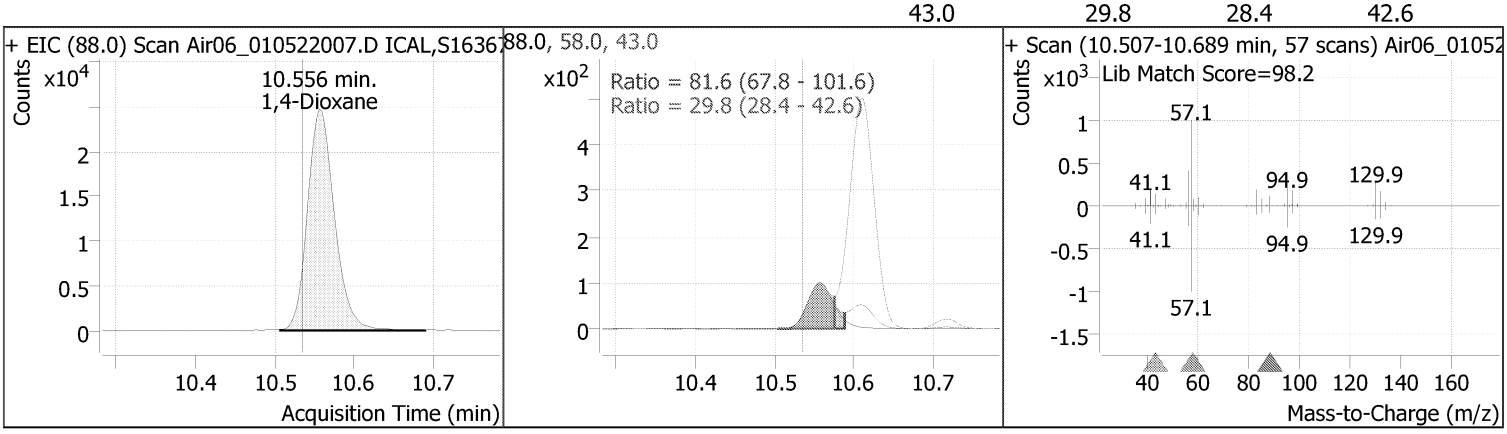

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 1.6984 | 10.34 | 0.00 | 111932 | 62.0 | 69.4 | 55.6 | 83.4 |
| | | | | | 41.0 | 56.9 | 46.5 | 69.7 |
| | | | | | 76.0 | 32.4 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.1 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.2 | 18.8 | 28.2 |



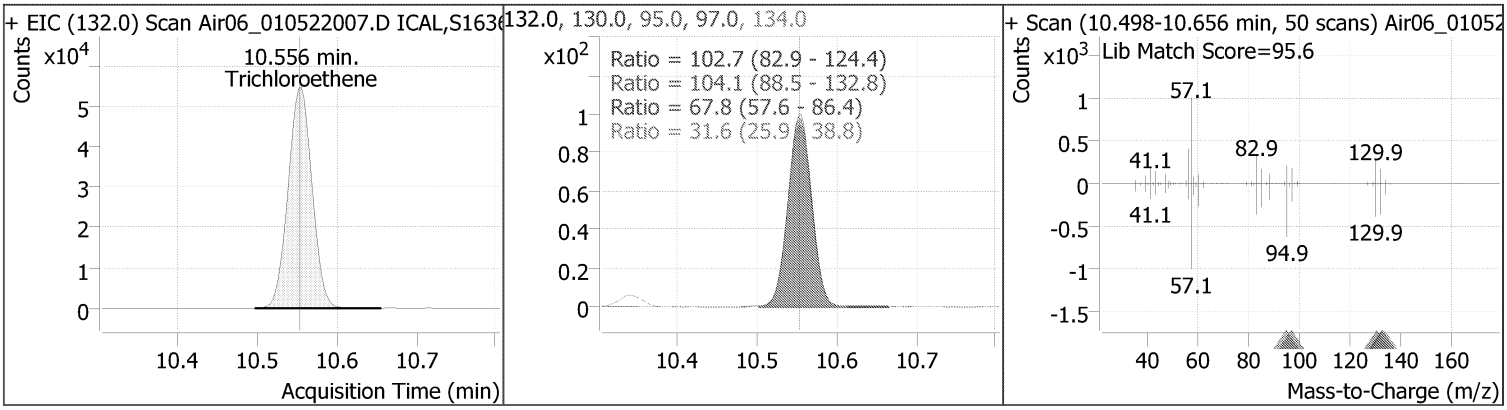

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 1.7033 | 10.50 | 0.00 | 184689 | 85.0 | 62.9 | 51.4 | 77.1 |
| | | | | | 47.0 | 23.7 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.8 | 9.1 | 13.7 |



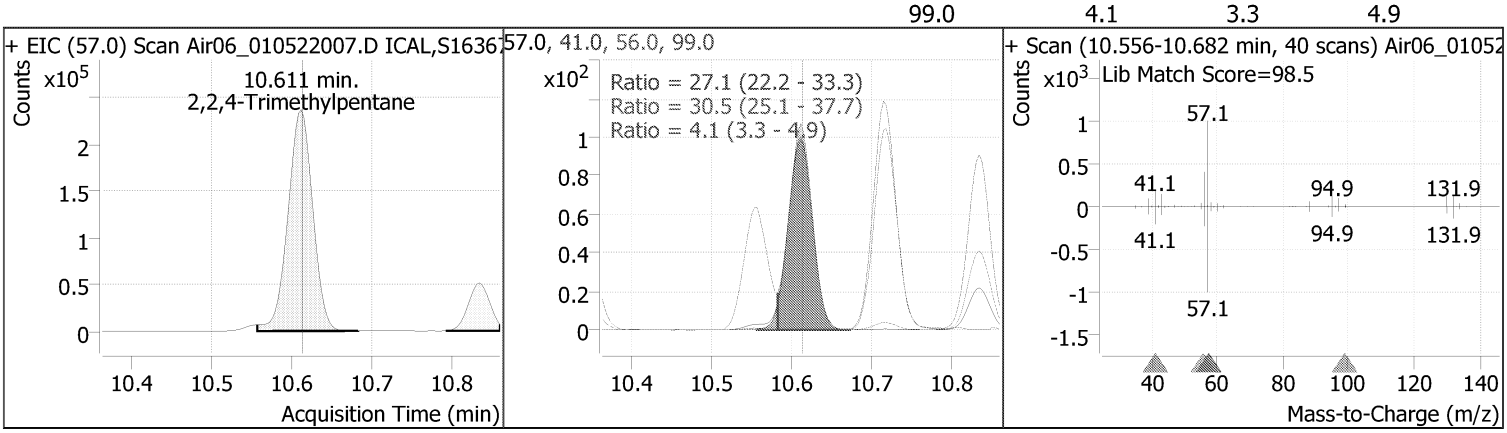
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1.6683 | 10.56 | 0.02 | 58351 | 58.0 | 81.6 | 67.8 | 101.6 |
| | | | | | 43.0 | 29.8 | 28.4 | 42.6 |



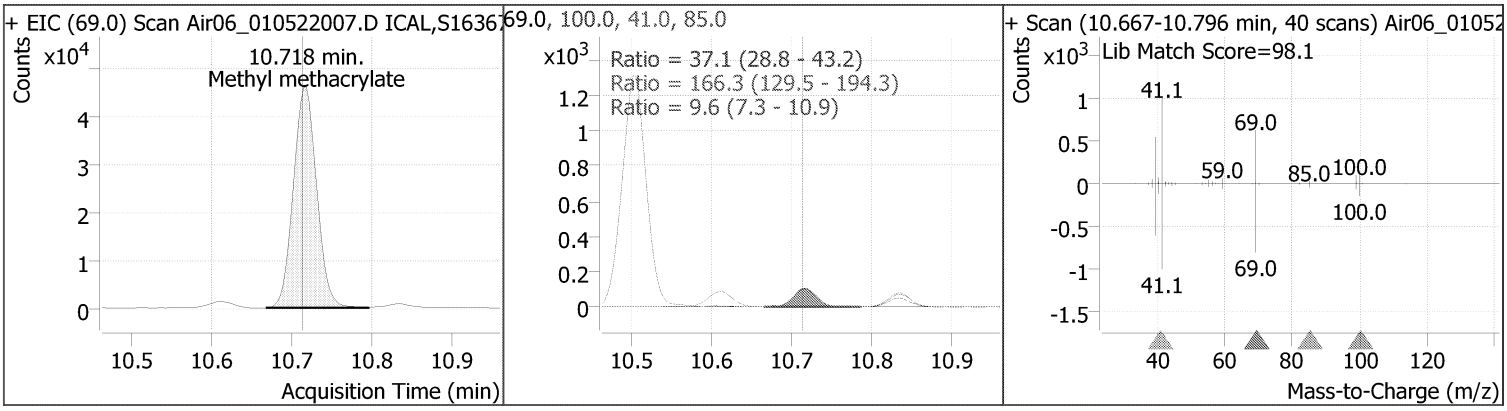

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 1.6717 | 10.56 | 0.00 | 114155 | 95.0 | 104.1 | 88.5 | 132.8 |
| | | | | | 130.0 | 102.7 | 82.9 | 124.4 |
| | | | | | 97.0 | 67.8 | 57.6 | 86.4 |
| | | | | | 134.0 | 31.6 | 25.9 | 38.8 |



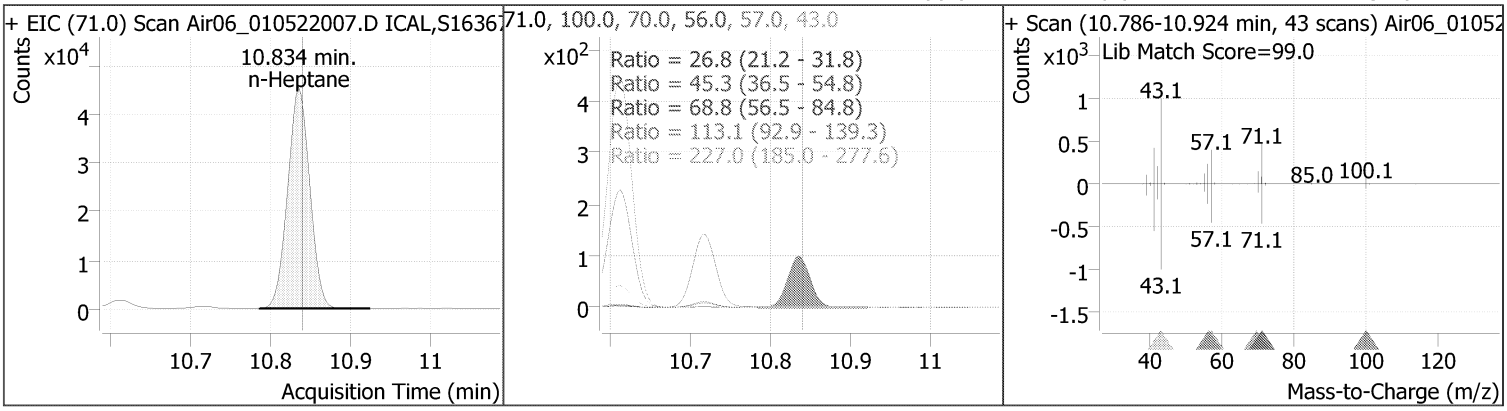

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 1.6539 | 10.61 | 0.00 | 512569 | 56.0 | 30.5 | 25.1 | 37.7 |
| | | | | | 41.0 | 27.1 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.1 | 3.3 | 4.9 |



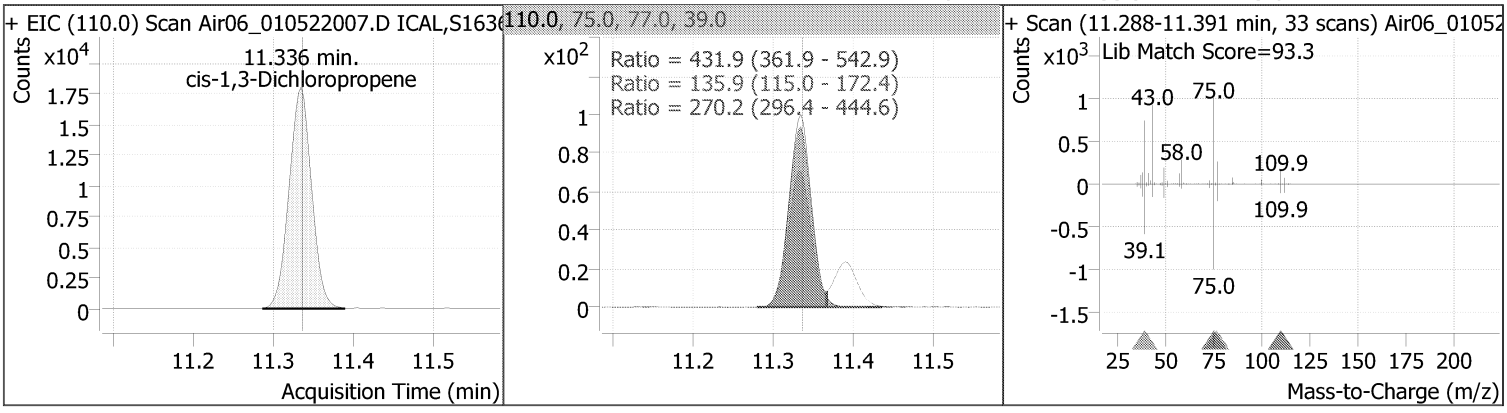
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 1.6892 | 10.72 | 0.01 | 94169 | 41.0 | 166.3 | 129.5 | 194.3 |
| | | | | | 100.0 | 37.1 | 28.8 | 43.2 |
| | | | | | 85.0 | 9.6 | 7.3 | 10.9 |



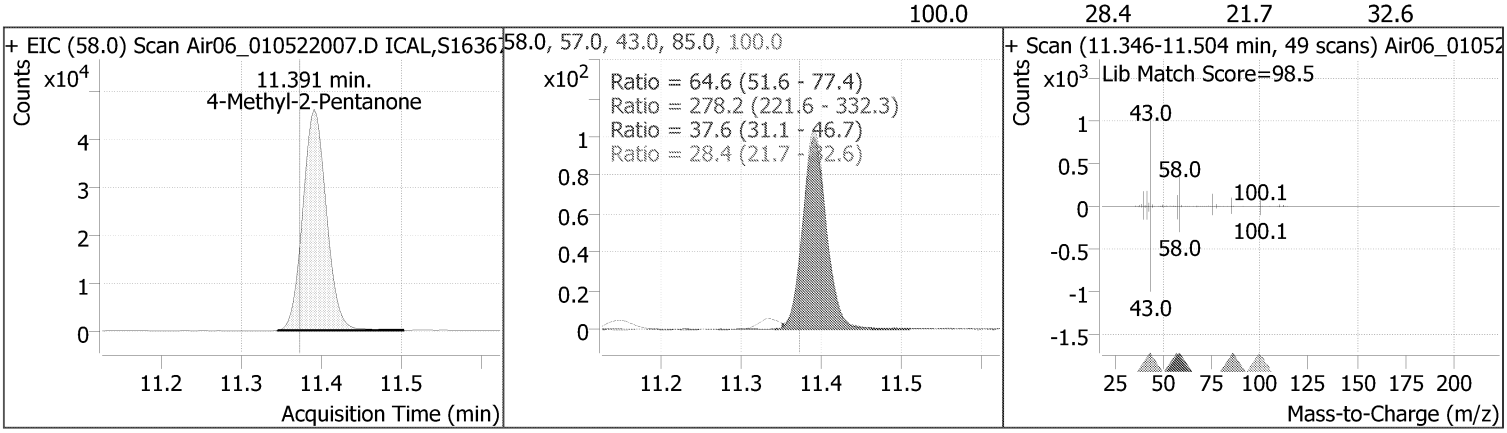

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 1.6620 | 10.83 | 0.00 | 87185 | 43.0 | 227.0 | 185.0 | 277.6 |
| | | | | | 57.0 | 113.1 | 92.9 | 139.3 |
| | | | | | 56.0 | 68.8 | 56.5 | 84.8 |
| | | | | | 70.0 | 45.3 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.8 | 21.2 | 31.8 |



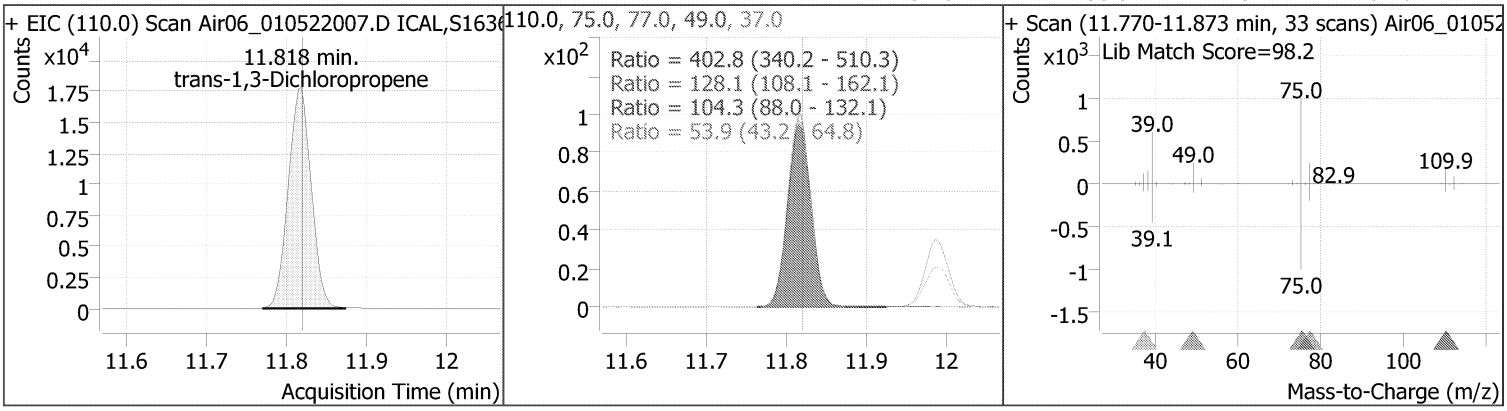

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 1.6923 | 11.34 | 0.00 | 35364 | 75.0 | 431.9 | 361.9 | 542.9 |
| | | | | | 39.0 | 270.2 | 296.4 | 444.6 |
| | | | | | 77.0 | 135.9 | 115.0 | 172.4 |



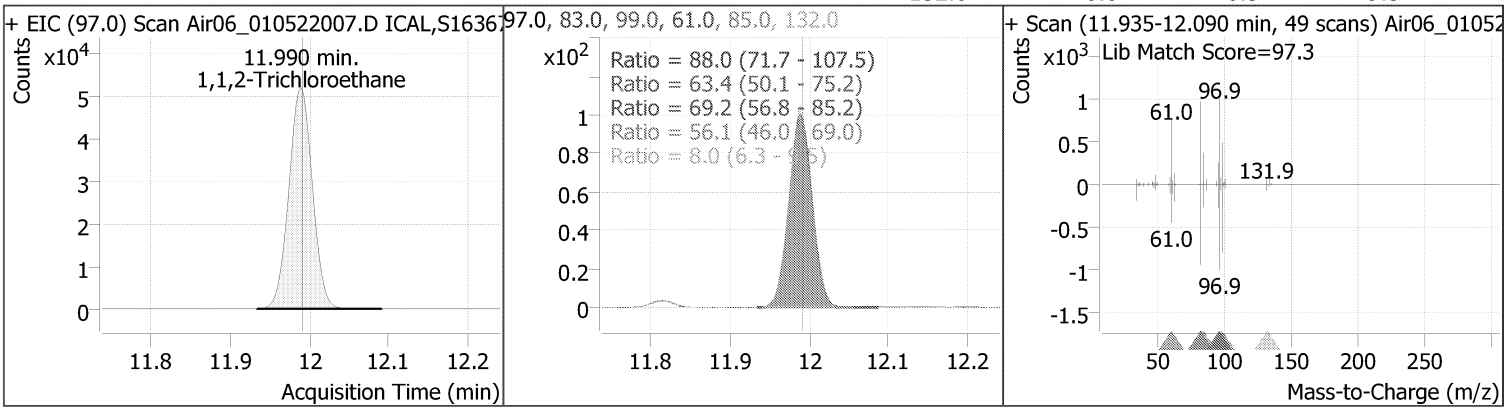
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 1.6202 | 11.39 | 0.02 | 94999 | 43.0 | 278.2 | 221.6 | 332.3 |
| | | | | | 57.0 | 64.6 | 51.6 | 77.4 |
| | | | | | 85.0 | 37.6 | 31.1 | 46.7 |
| | | | | | 100.0 | 28.4 | 21.7 | 32.6 |



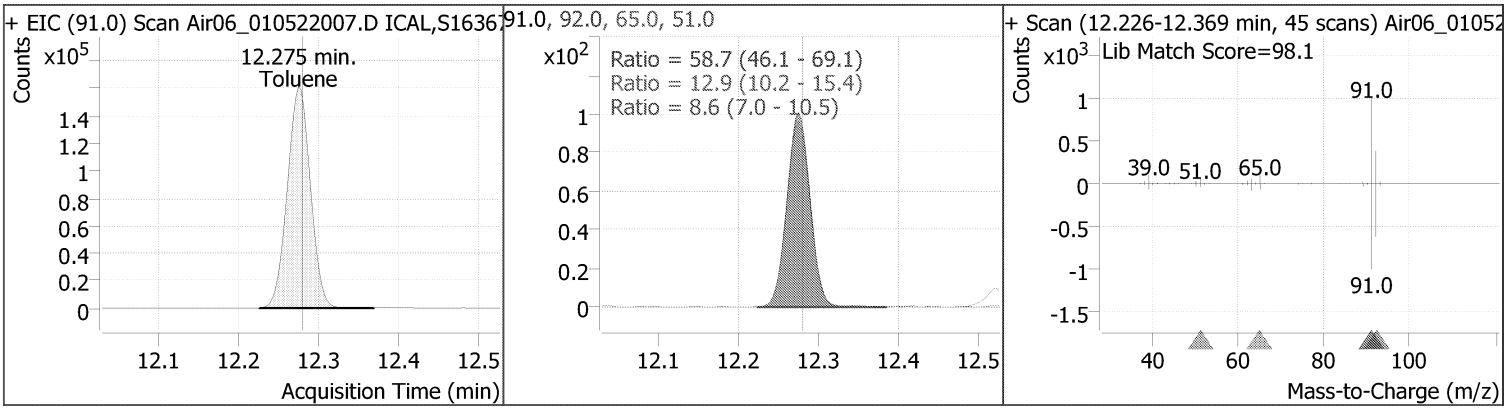

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 1.6855 | 11.82 | 0.00 | 35728 | 75.0 | 402.8 | 340.2 | 510.3 |
| | | | | | 77.0 | 128.1 | 108.1 | 162.1 |
| | | | | | 49.0 | 104.3 | 88.0 | 132.1 |
| | | | | | 37.0 | 53.9 | 43.2 | 64.8 |



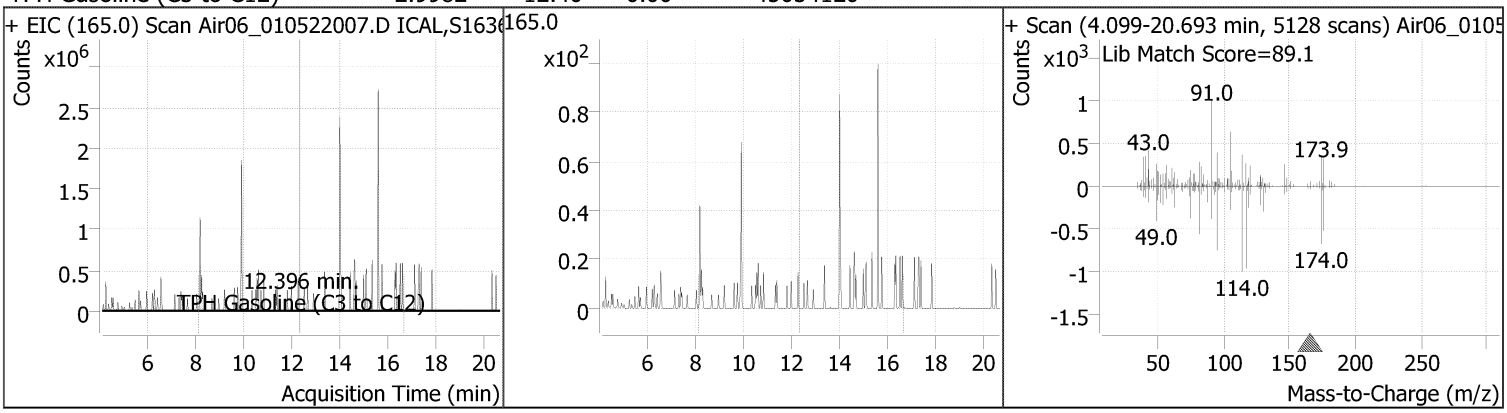

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 1.7067 | 11.99 | 0.00 | 107160 | 83.0 | 88.0 | 71.7 | 107.5 |
| | | | | | 61.0 | 69.2 | 56.8 | 85.2 |
| | | | | | 99.0 | 63.4 | 50.1 | 75.2 |
| | | | | | 85.0 | 56.1 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.0 | 6.3 | 9.5 |



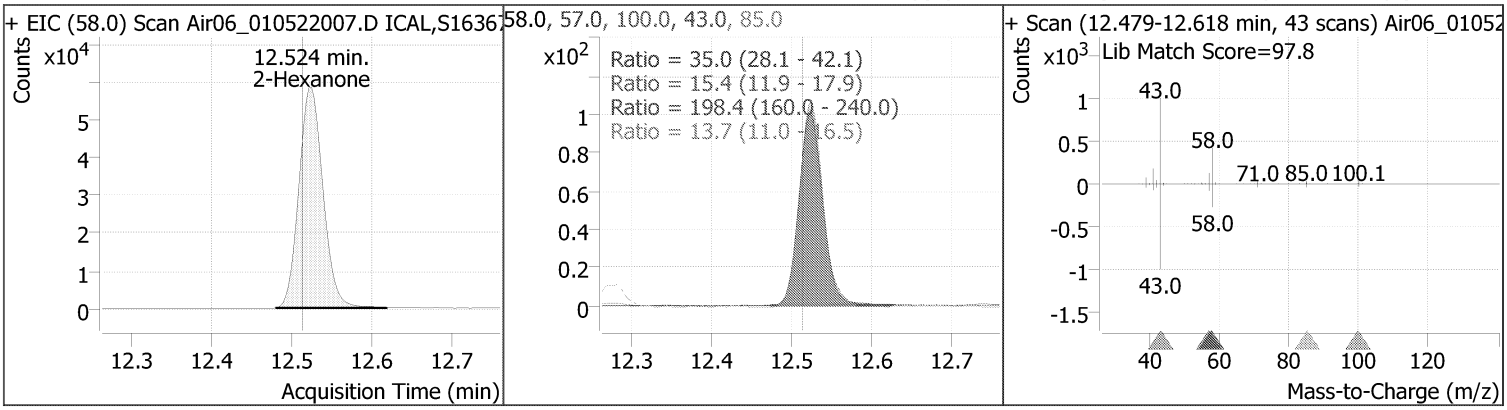
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 1.6624 | 12.27 | 0.00 | 324227 | 92.0 | 58.7 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.9 | 10.2 | 15.4 |
| | | | | | 51.0 | 8.6 | 7.0 | 10.5 |



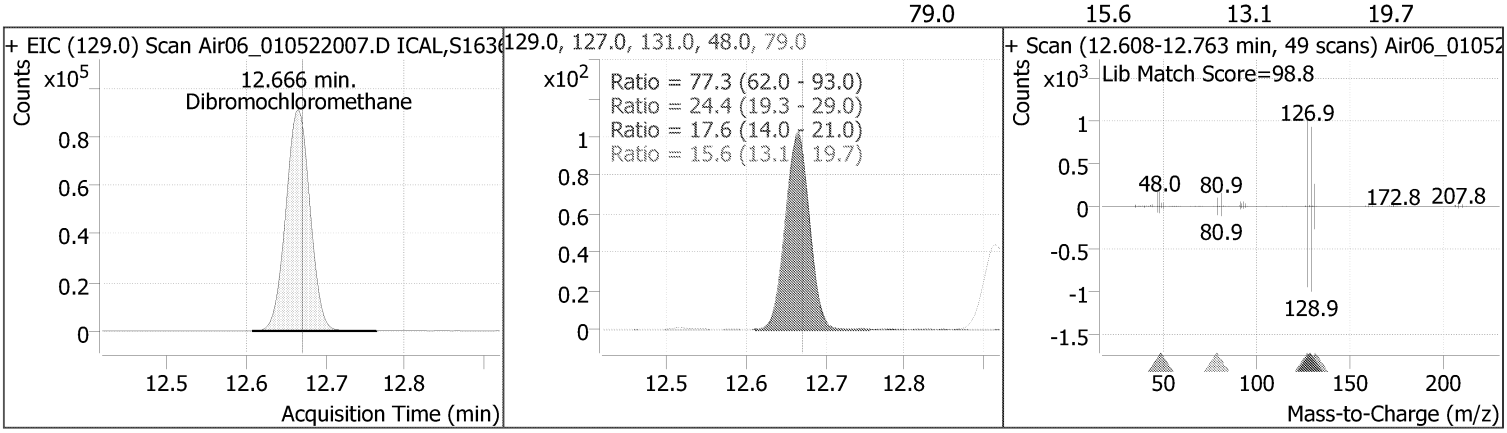

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 2.9982 | 12.40 | 0.00 | 45034120 | | | | |



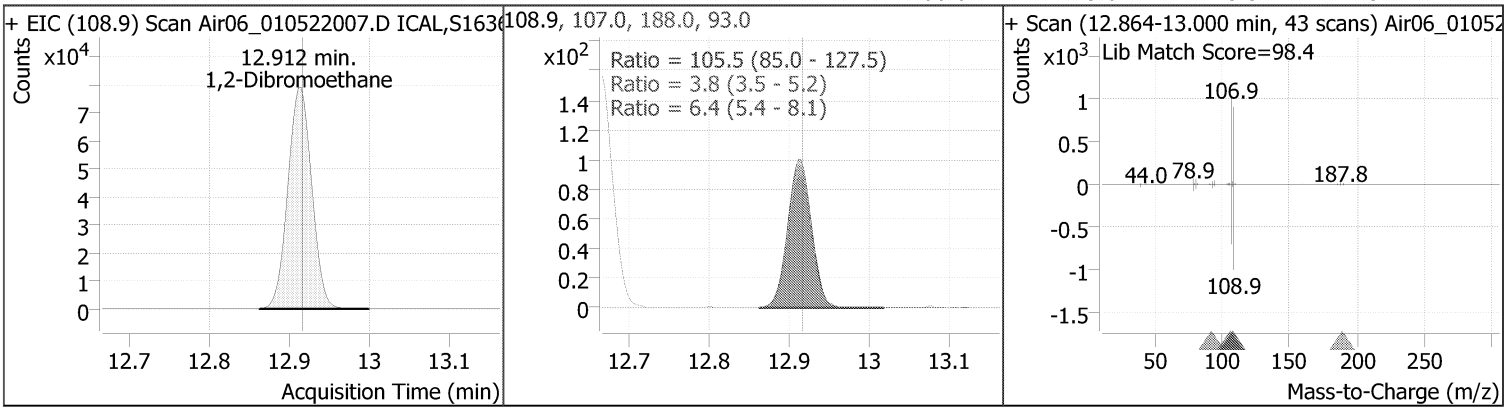

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 1.6975 | 12.52 | 0.01 | 123420 | 43.0 | 198.4 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.0 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.4 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.7 | 11.0 | 16.5 |



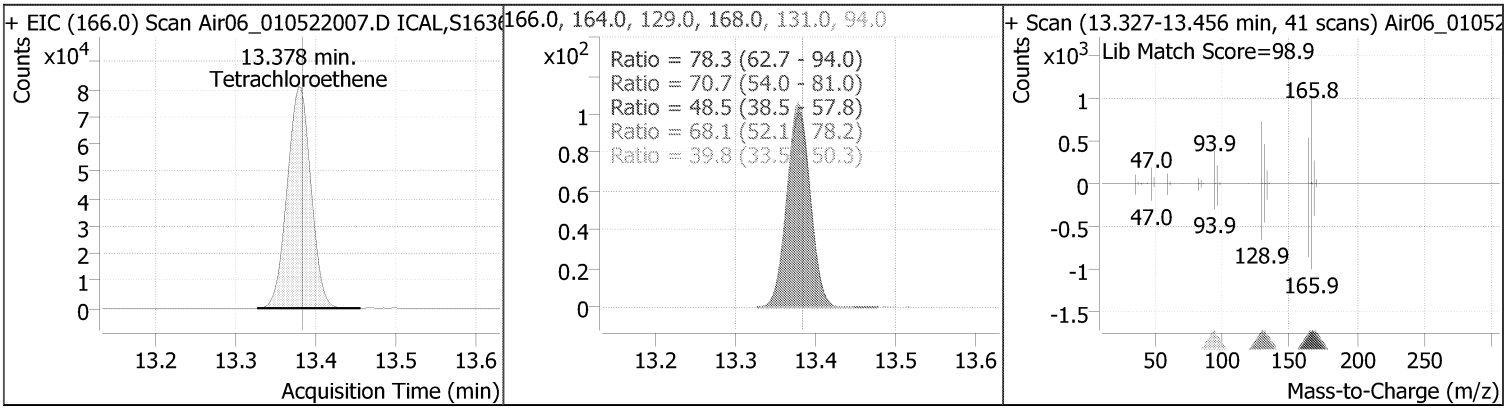
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 1.7069 | 12.67 | 0.00 | 193752 | 127.0 | 77.3 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.4 | 19.3 | 29.0 |
| | | | | | 48.0 | 17.6 | 14.0 | 21.0 |
| | | | | | 79.0 | 15.6 | 13.1 | 19.7 |



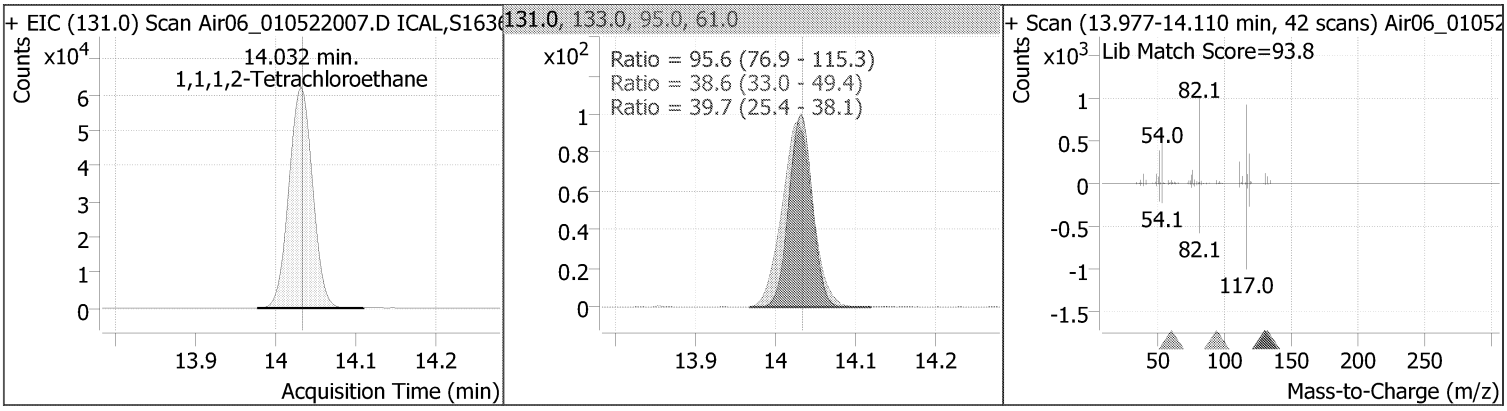

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 1.7003 | 12.91 | 0.00 | 164820 | 107.0 | 105.5 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.4 | 5.4 | 8.1 |
| | | | | | 188.0 | 3.8 | 3.5 | 5.2 |



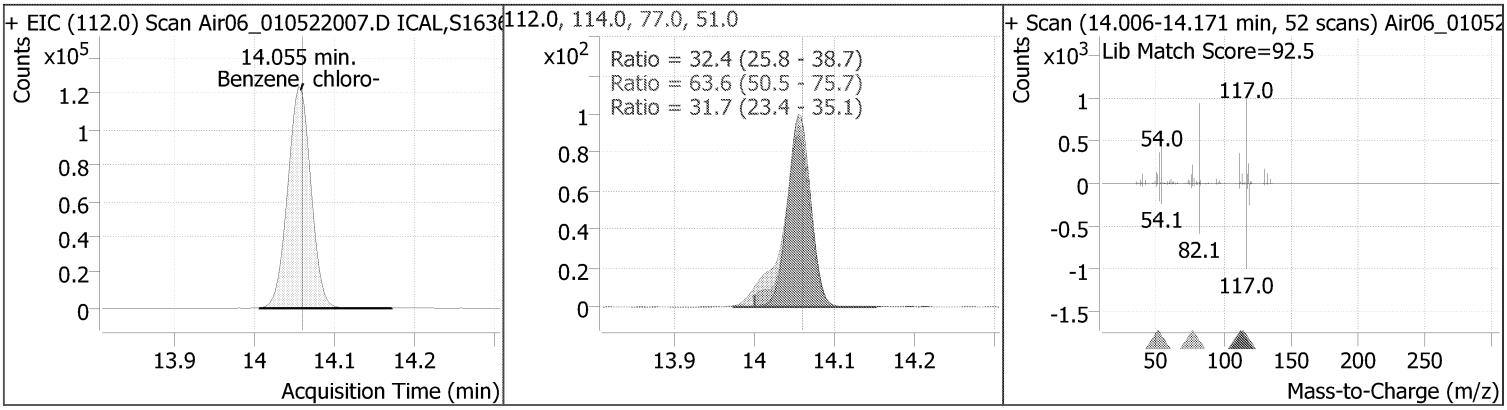

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 1.6776 | 13.38 | 0.00 | 167238 | 164.0 | 78.3 | 62.7 | 94.0 |
| | | | | | 129.0 | 70.7 | 54.0 | 81.0 |
| | | | | | 131.0 | 68.1 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.5 | 38.5 | 57.8 |
| | | | | | 94.0 | 39.8 | 33.5 | 50.3 |



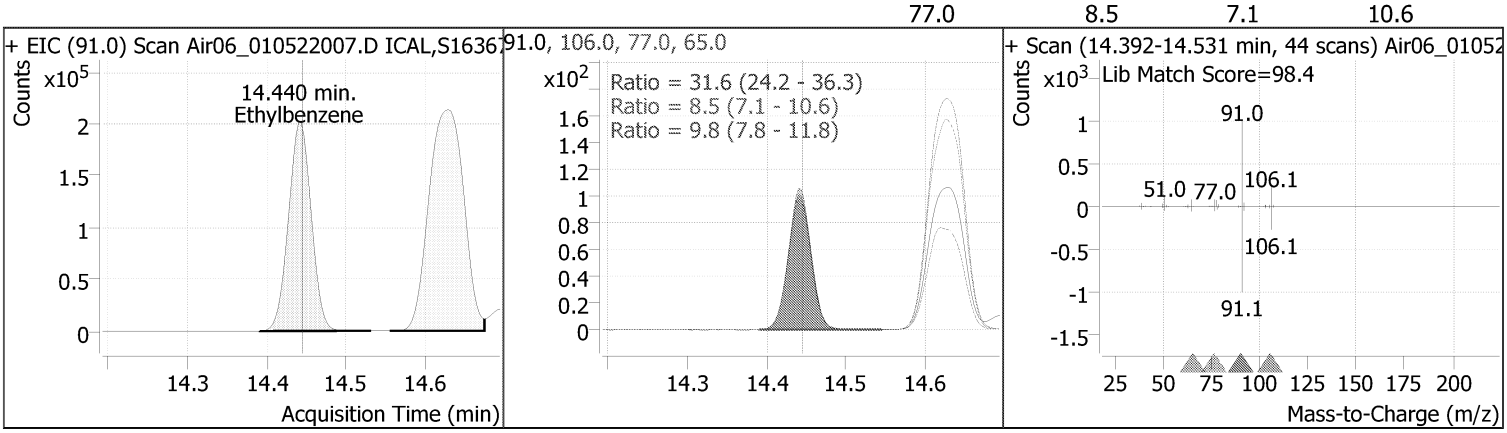
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1.7125 | 14.03 | 0.00 | 128293 | 133.0 | 95.6 | 76.9 | 115.3 |
| | | | | | 95.0 | 38.6 | 33.0 | 49.4 |
| | | | | | 61.0 | 39.7 | 25.4 | 38.1 |



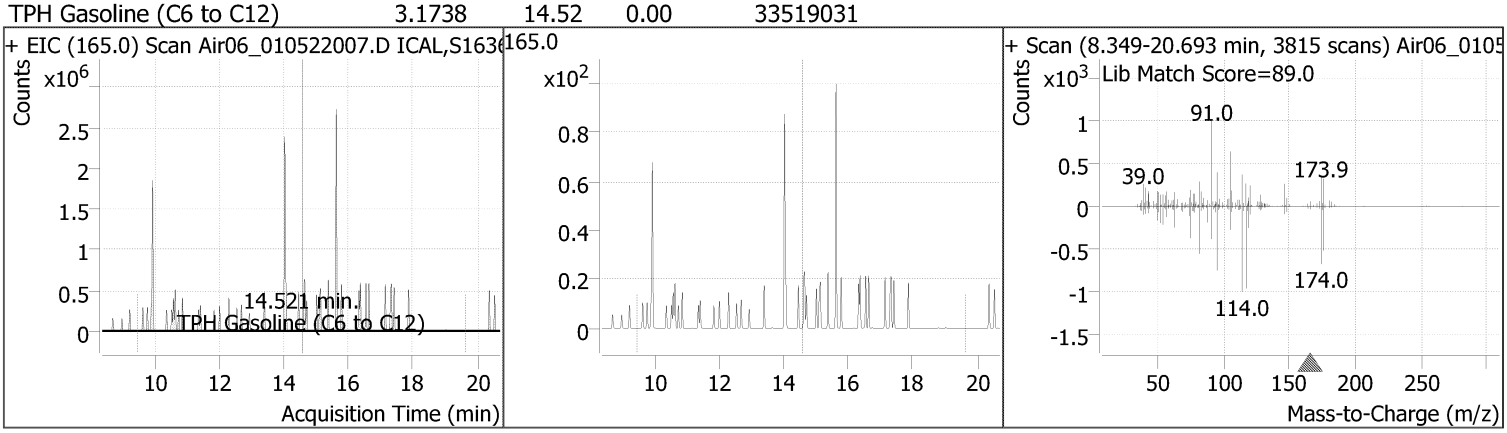

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 1.6650 | 14.05 | -0.01 | 251505 | 77.0 | 63.6 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.4 | 25.8 | 38.7 |
| | | | | | 51.0 | 31.7 | 23.4 | 35.1 |



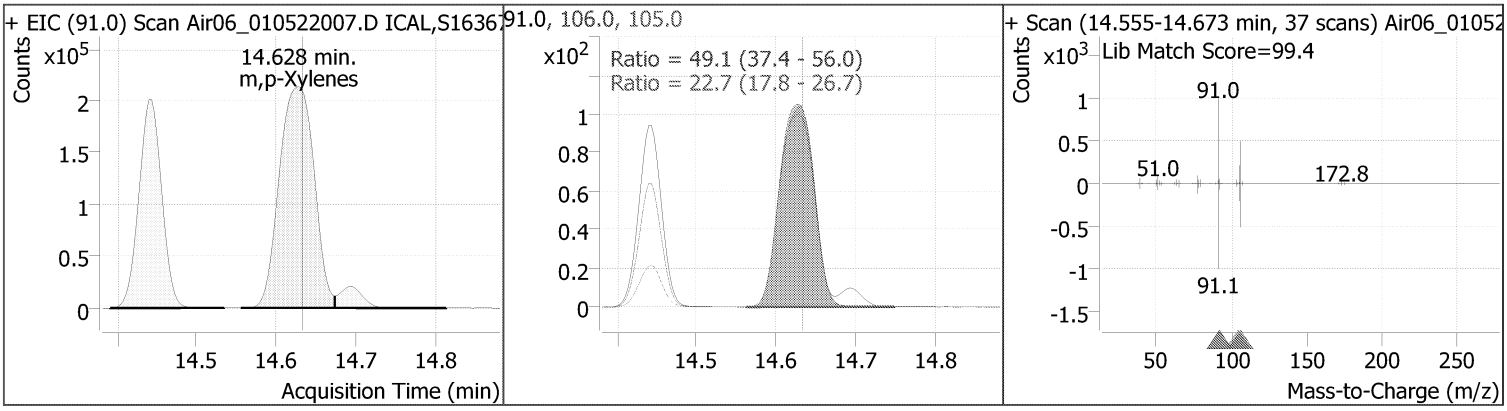

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 1.6747 | 14.44 | -0.01 | 400204 | 106.0 | 31.6 | 24.2 | 36.3 |
| | | | | | 65.0 | 9.8 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.5 | 7.1 | 10.6 |



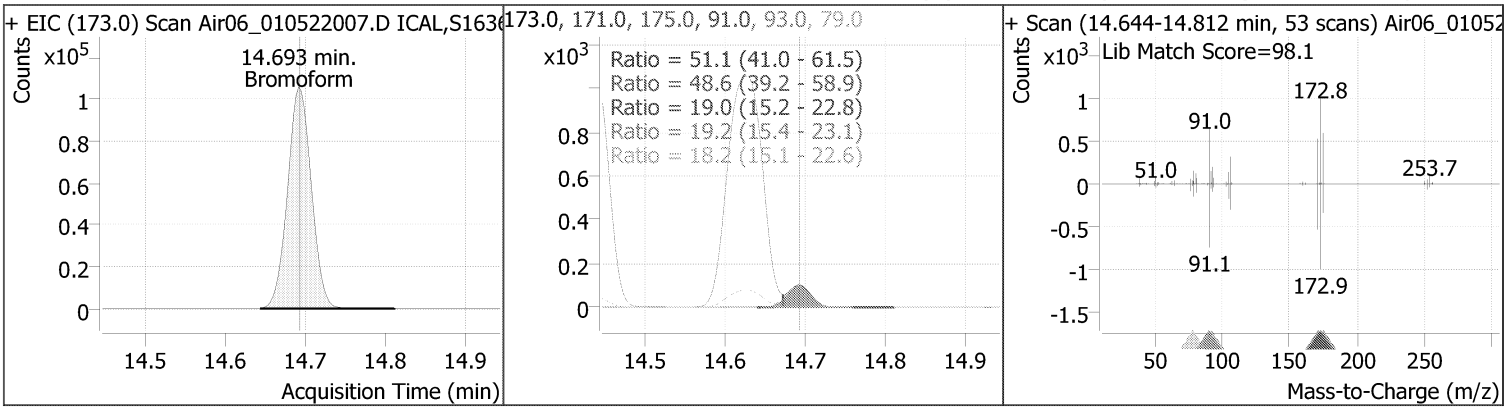
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 3.1738 | 14.52 | 0.00 | 33519031 | | | | |



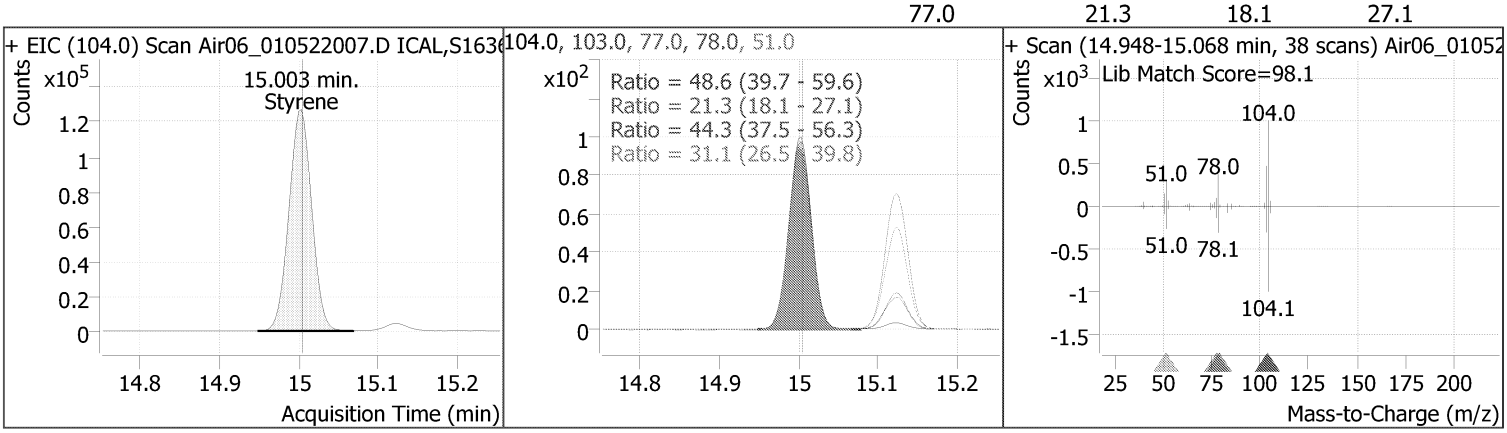

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 3.3512 | 14.63 | -0.01 | 649091 | 106.0 | 49.1 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.7 | 17.8 | 26.7 |



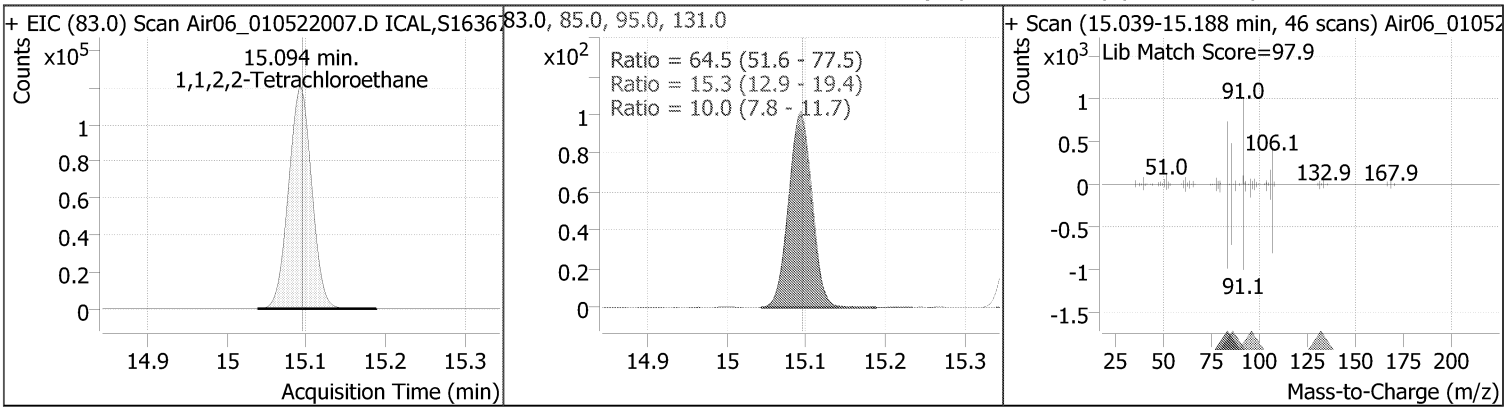

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 1.7125 | 14.69 | -0.01 | 220062 | 171.0 | 51.1 | 41.0 | 61.5 |
| | | | | | 175.0 | 48.6 | 39.2 | 58.9 |
| | | | | | 93.0 | 19.2 | 15.4 | 23.1 |
| | | | | | 91.0 | 19.0 | 15.2 | 22.8 |
| | | | | | 79.0 | 18.2 | 15.1 | 22.6 |



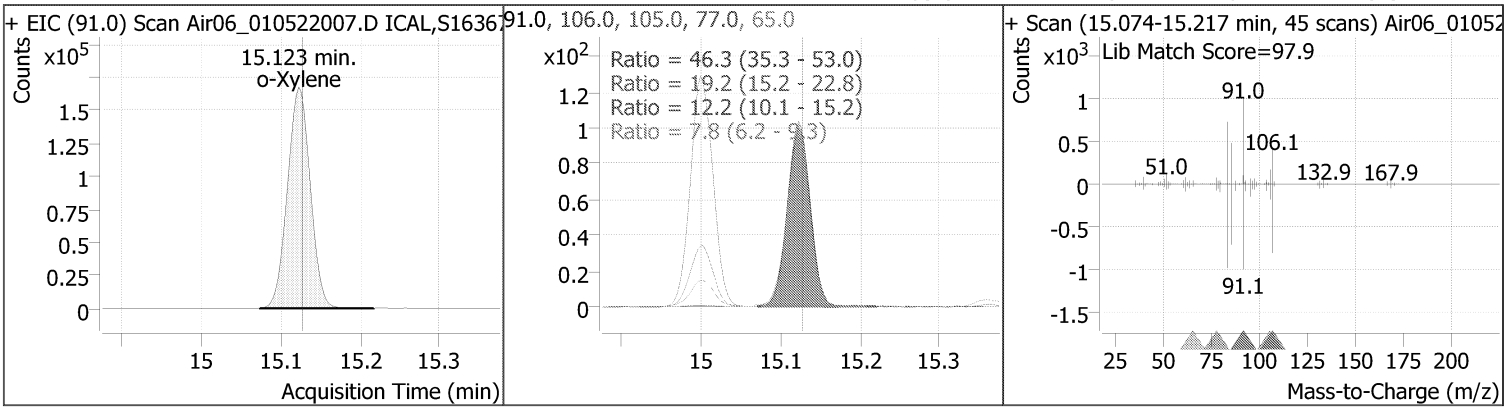
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 1.6663 | 15.00 | 0.00 | 252653 | 103.0 | 48.6 | 39.7 | 59.6 |
| | | | | | 78.0 | 44.3 | 37.5 | 56.3 |
| | | | | | 51.0 | 31.1 | 26.5 | 39.8 |
| | | | | | 77.0 | 21.3 | 18.1 | 27.1 |



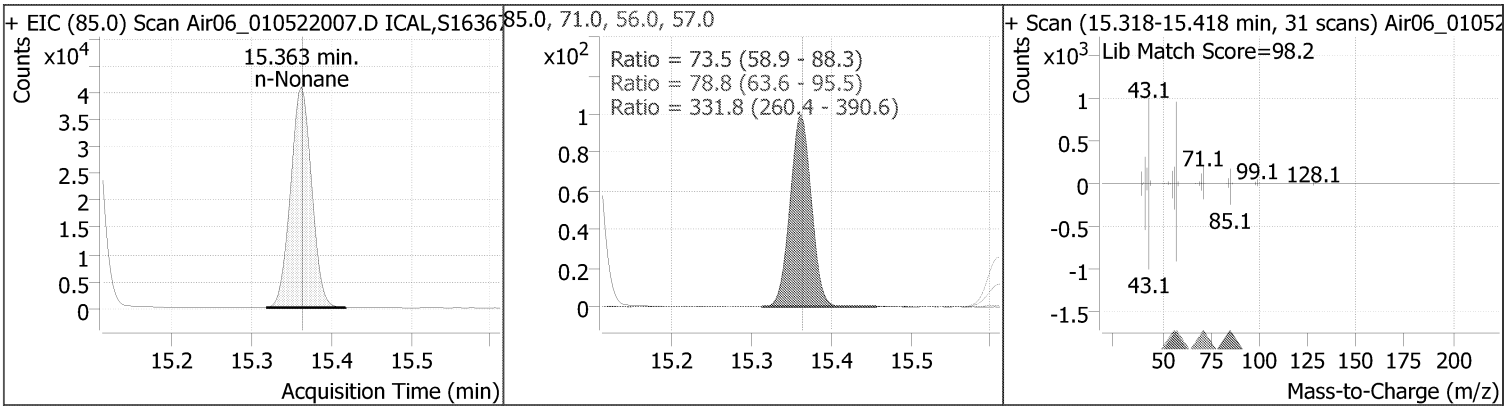

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 1.6881 | 15.09 | 0.00 | 243799 | 85.0 | 64.5 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.3 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.0 | 7.8 | 11.7 |



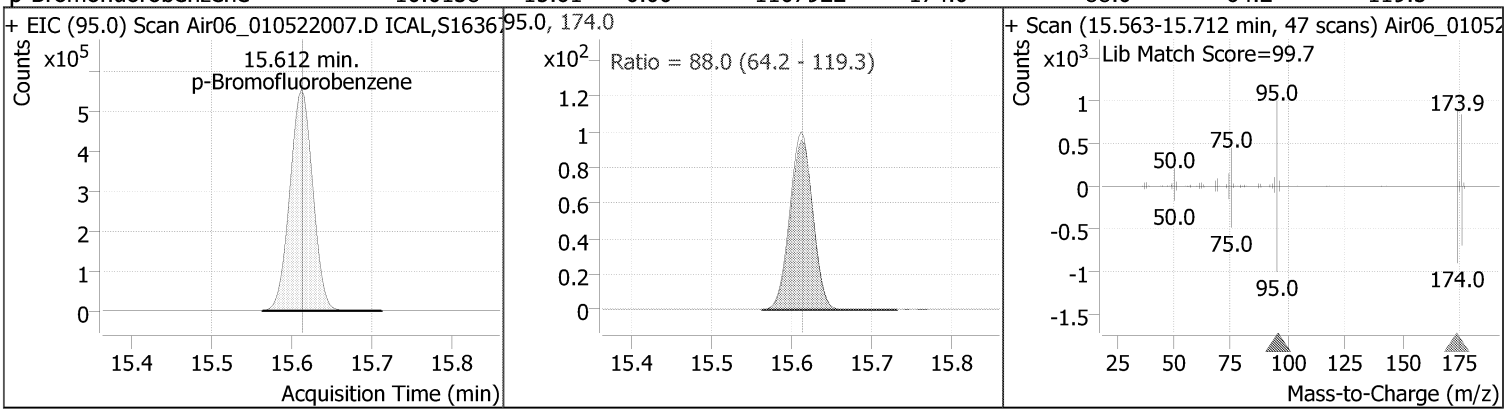

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 1.6741 | 15.12 | -0.01 | 333329 | 106.0 | 46.3 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.2 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.2 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.8 | 6.2 | 9.3 |



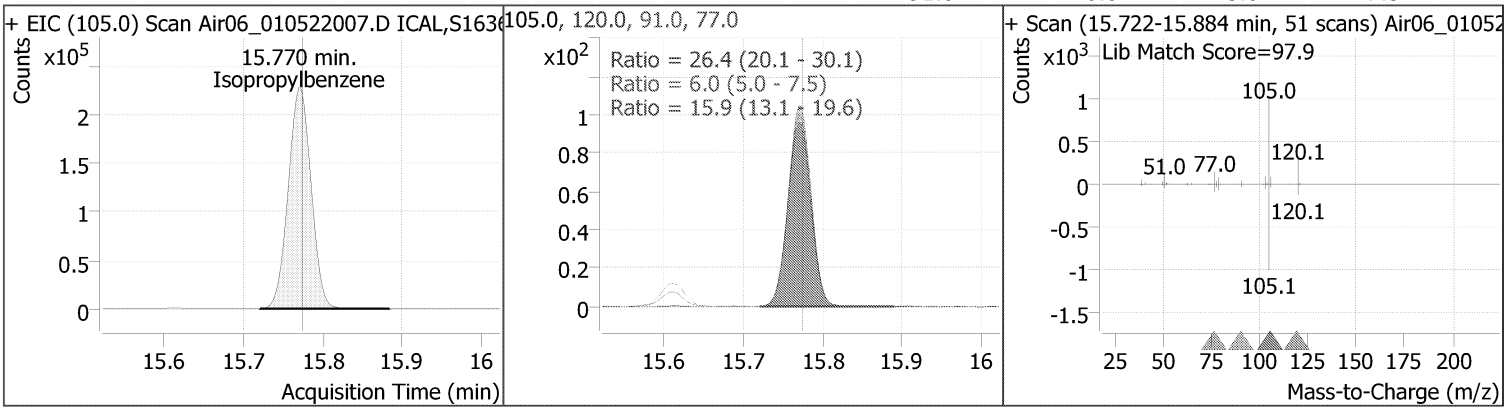
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 1.6547 | 15.36 | 0.00 | 75469 | 57.0 | 331.8 | 260.4 | 390.6 |
| | | | | | 56.0 | 78.8 | 63.6 | 95.5 |
| | | | | | 71.0 | 73.5 | 58.9 | 88.3 |



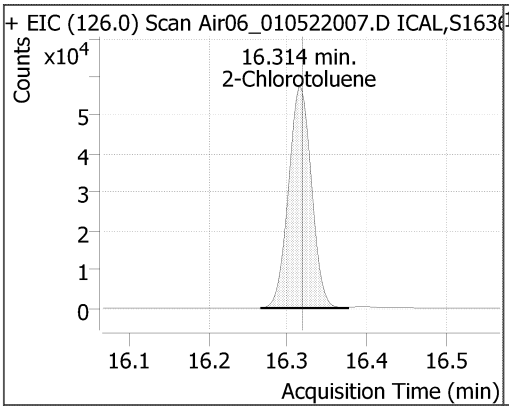

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.0138 | 15.61 | 0.00 | 1107922 | 174.0 | 88.0 | 64.2 | 119.3 |

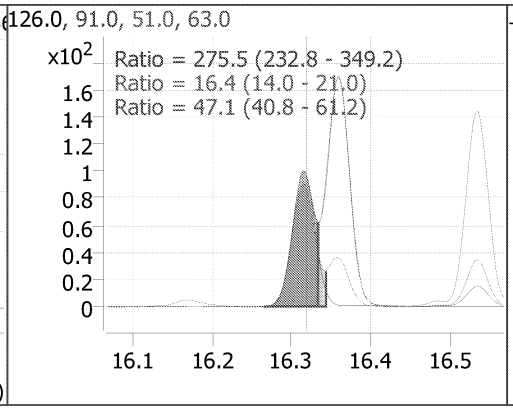


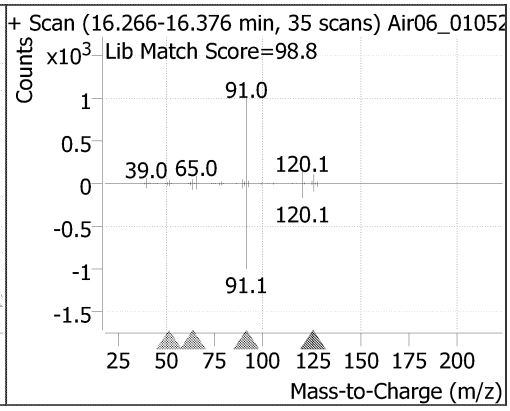

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 1.6750 | 15.77 | -0.01 | 455244 | 120.0 | 26.4 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.9 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.0 | 5.0 | 7.5 |



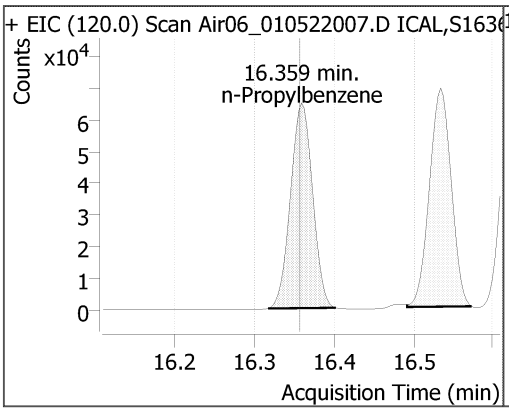
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 1.6802 | 16.31 | -0.01 | 115797 | 91.0 | 275.5 | 232.8 | 349.2 |
| | | | | | 63.0 | 47.1 | 40.8 | 61.2 |
| | | | | | 51.0 | 16.4 | 14.0 | 21.0 |

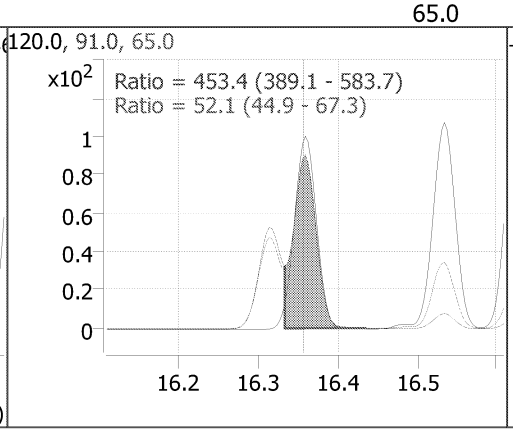


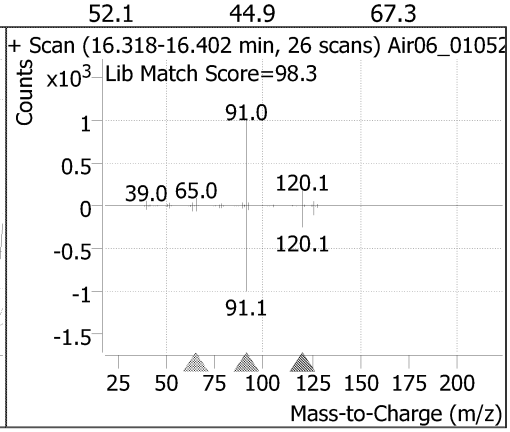



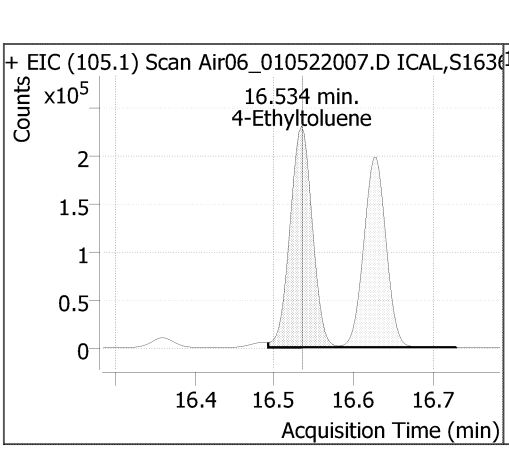

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 1.6637 | 16.36 | 0.00 | 125521 | 91.0 | 453.4 | 389.1 | 583.7 |
| | | | | | 65.0 | 52.1 | 44.9 | 67.3 |

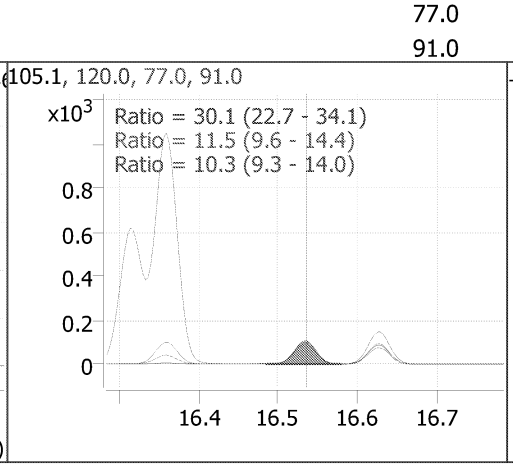


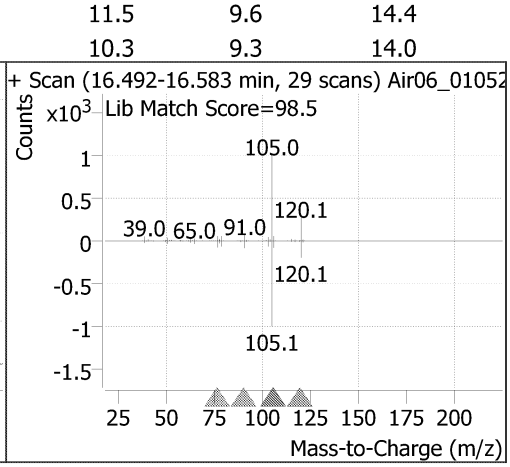



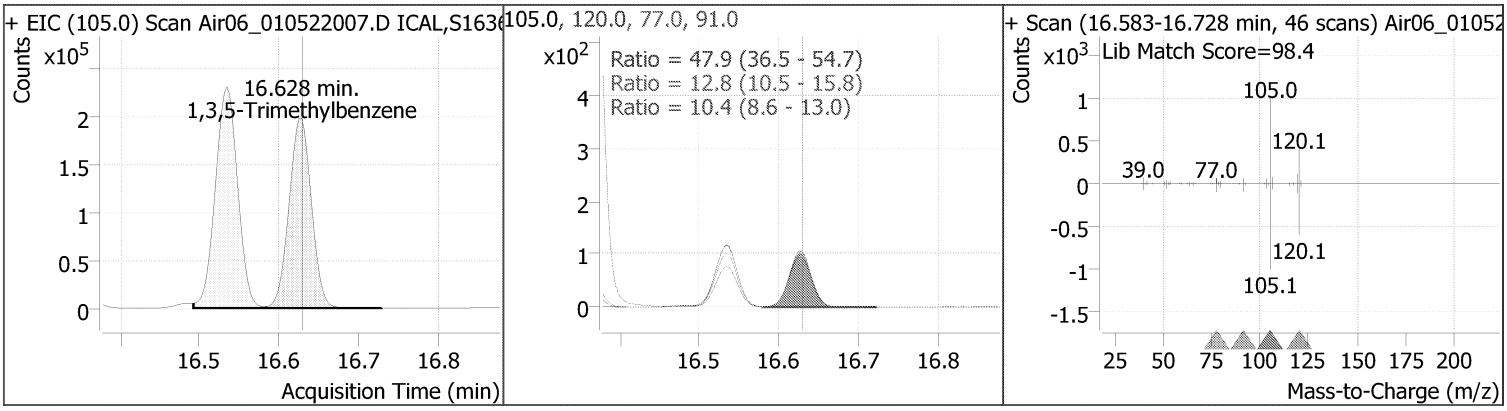

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 1.7016 | 16.53 | 0.00 | 452867 | 120.0 | 30.1 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.5 | 9.6 | 14.4 |
| | | | | | 91.0 | 10.3 | 9.3 | 14.0 |



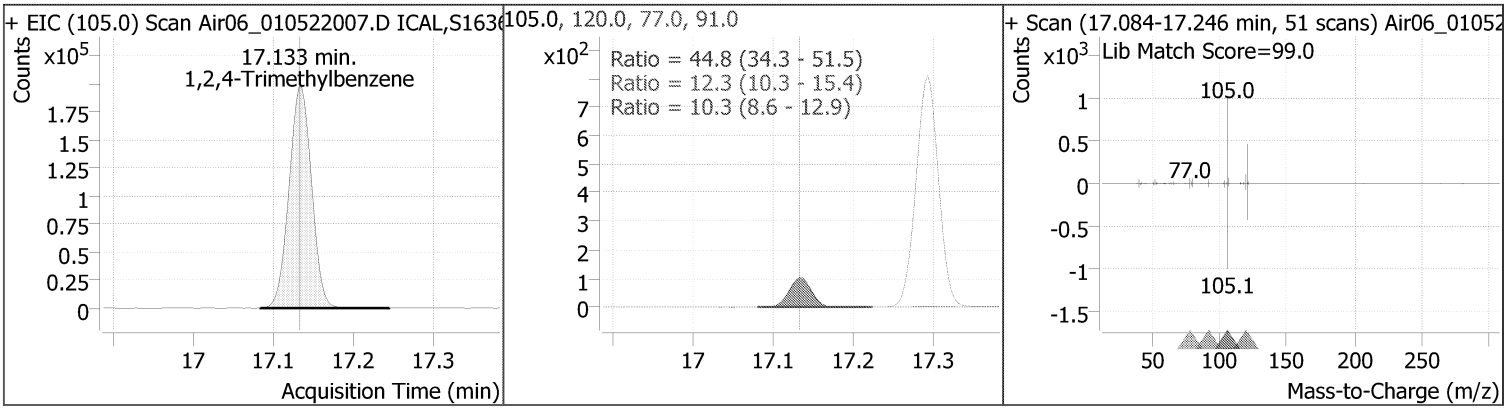



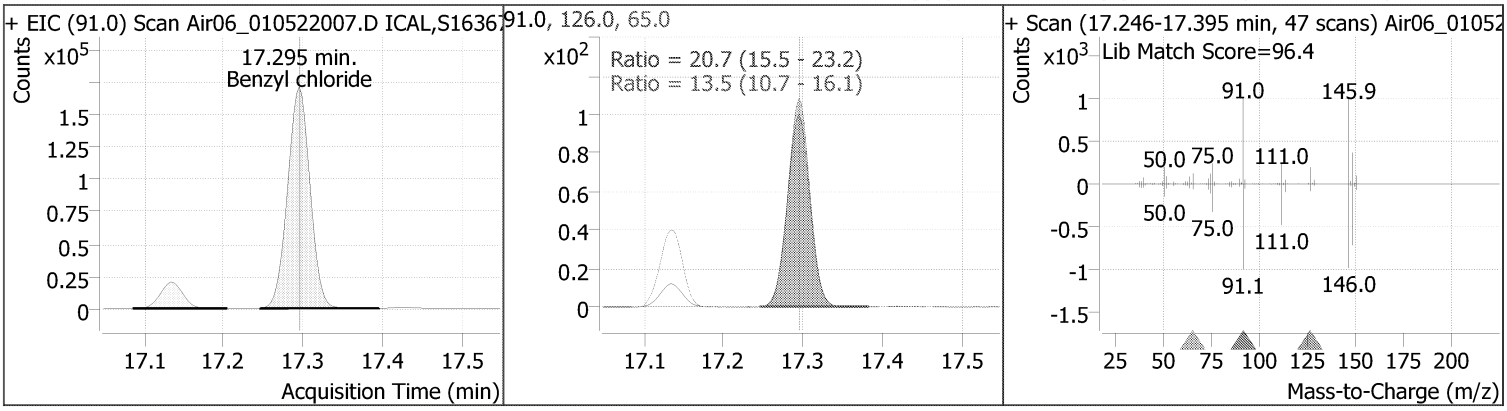
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 1.6884 | 16.63 | 0.00 | 390108 | 120.0 | 47.9 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.8 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.4 | 8.6 | 13.0 |



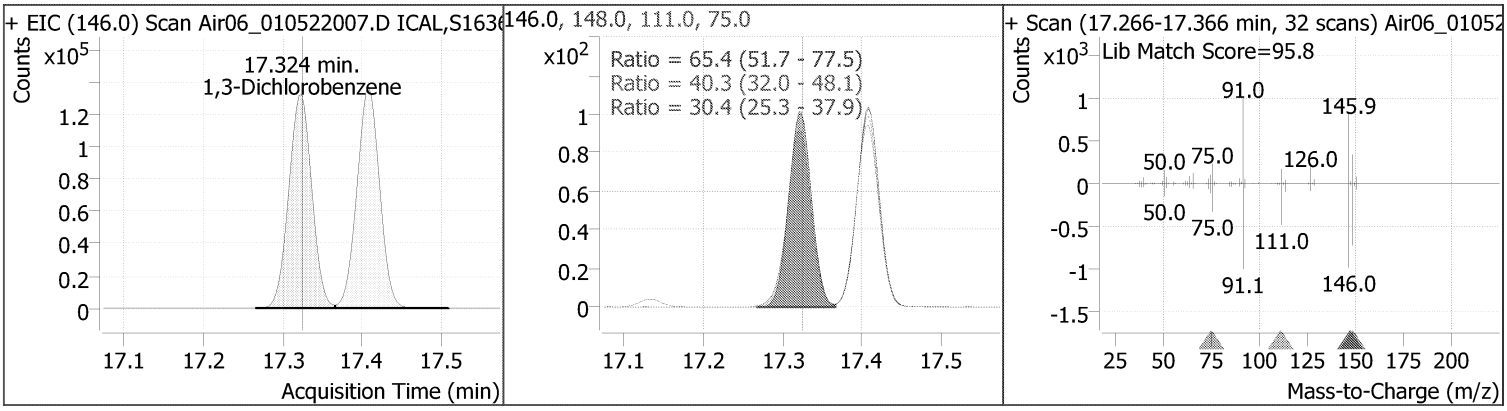

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 1.7124 | 17.13 | -0.01 | 389665 | 120.0 | 44.8 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.3 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.3 | 8.6 | 12.9 |



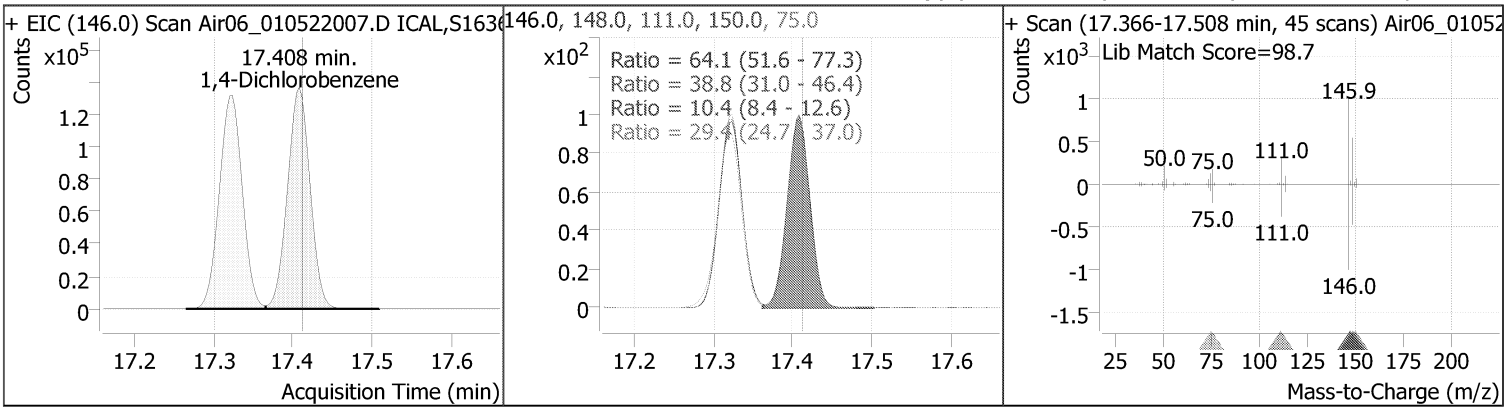

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 1.7989 | 17.29 | -0.01 | 336839 | 126.0 | 20.7 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.5 | 10.7 | 16.1 |



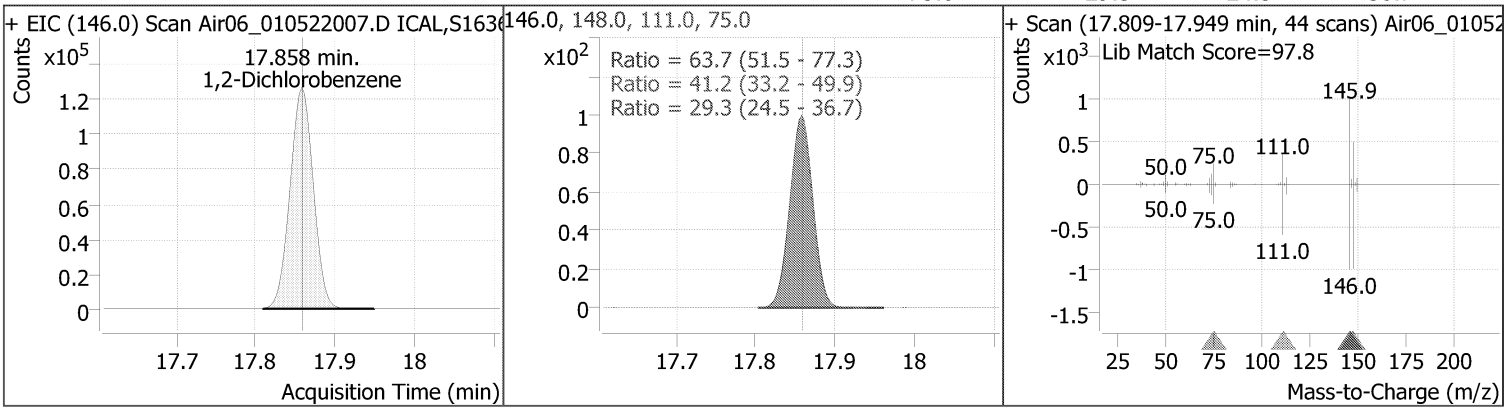
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 1.6972 | 17.32 | 0.00 | 265676 | 148.0 | 65.4 | 51.7 | 77.5 |
| | | | | | 111.0 | 40.3 | 32.0 | 48.1 |
| | | | | | 75.0 | 30.4 | 25.3 | 37.9 |



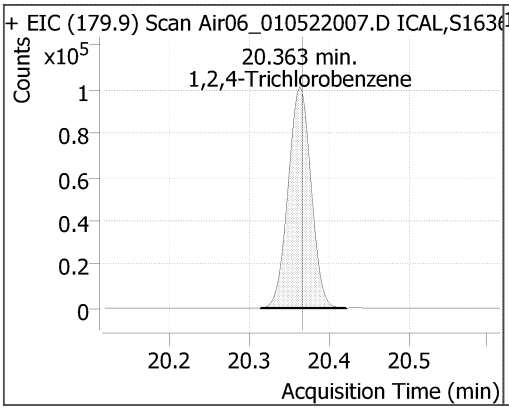

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1.7106 | 17.41 | -0.01 | 270391 | 148.0 | 64.1 | 51.6 | 77.3 |
| | | | | | 111.0 | 38.8 | 31.0 | 46.4 |
| | | | | | 75.0 | 29.4 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.4 | 8.4 | 12.6 |

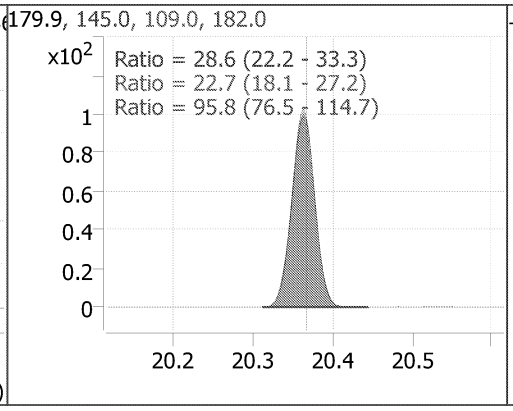


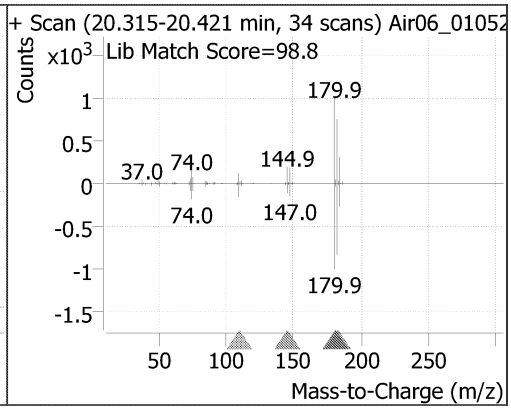

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 1.7061 | 17.86 | 0.00 | 258996 | 148.0 | 63.7 | 51.5 | 77.3 |
| | | | | | 111.0 | 41.2 | 33.2 | 49.9 |
| | | | | | 75.0 | 29.3 | 24.5 | 36.7 |



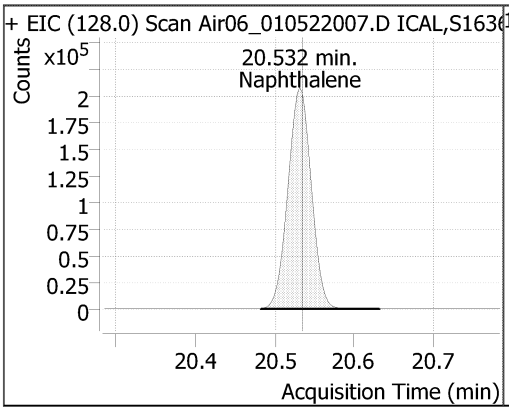
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 1.7929 | 20.36 | -0.01 | 203521 | 182.0 | 95.8 | 76.5 | 114.7 |
| | | | | | 145.0 | 28.6 | 22.2 | 33.3 |
| | | | | | 109.0 | 22.7 | 18.1 | 27.2 |

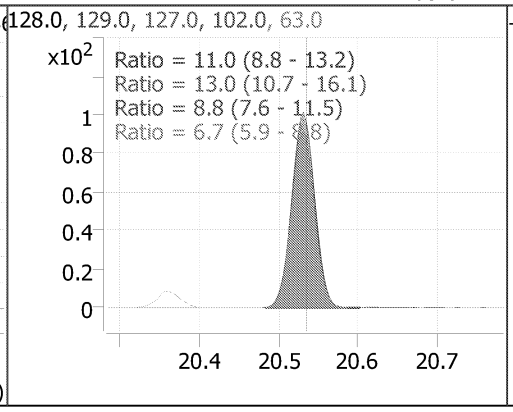


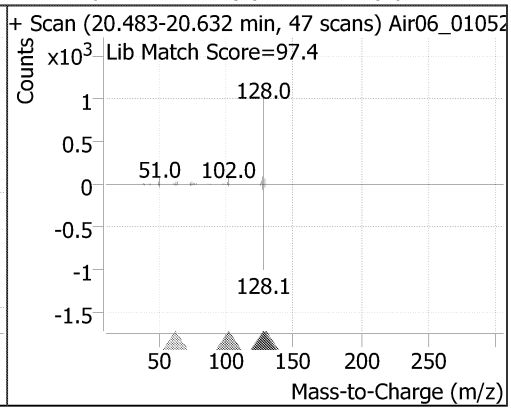



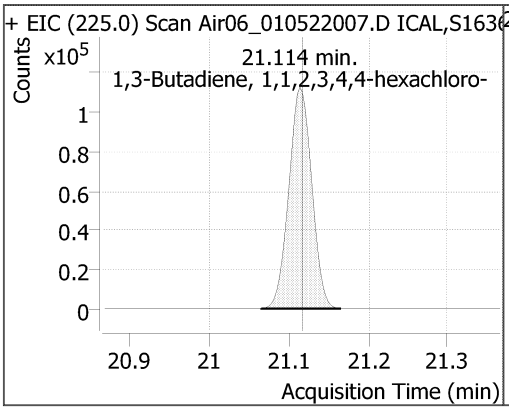

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 1.7930 | 20.53 | -0.01 | 425327 | 127.0 | 13.0 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.8 | 7.6 | 11.5 |
| | | | | | 63.0 | 6.7 | 5.9 | 8.8 |

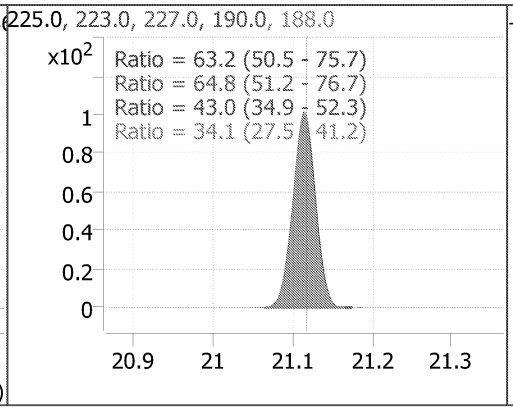


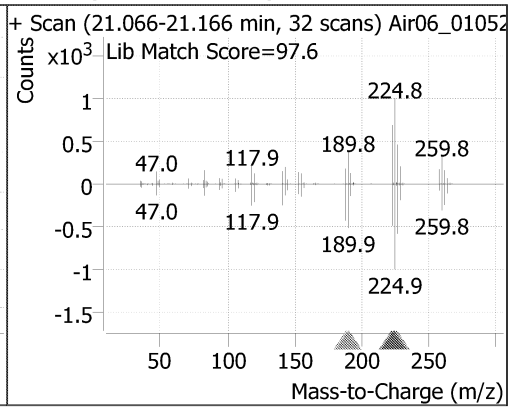




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 1.6901 | 21.11 | -0.01 | 226266 | 227.0 | 64.8 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.2 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.0 | 34.9 | 52.3 |
| | | | | | 188.0 | 34.1 | 27.5 | 41.2 |

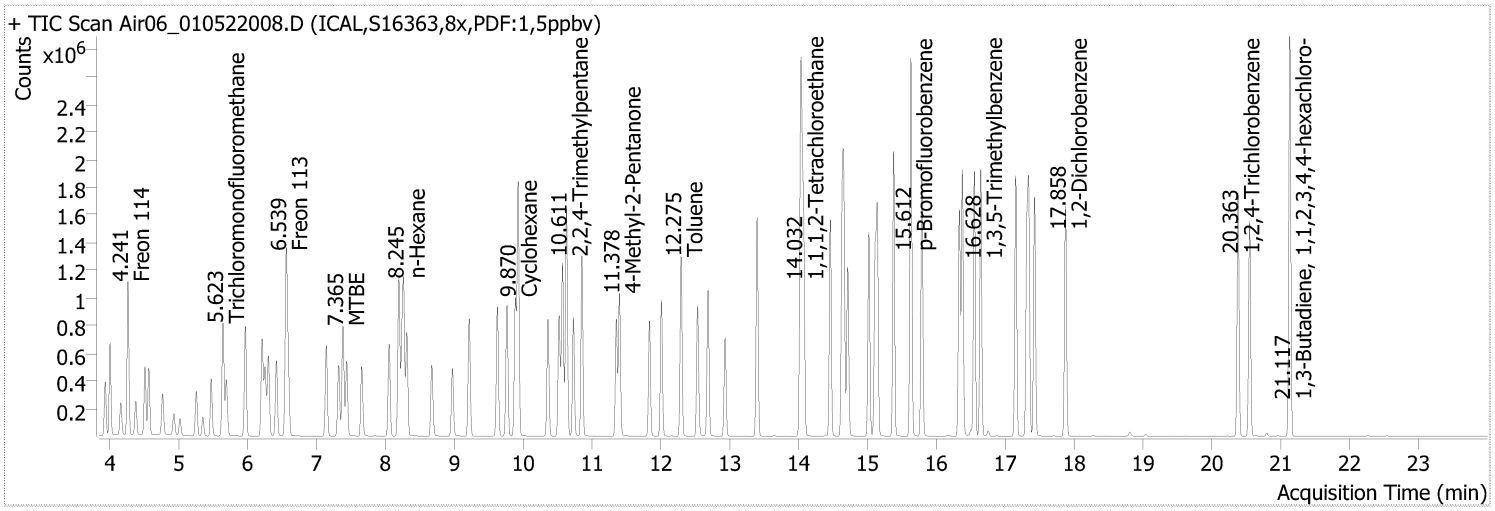


# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522008.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 7:47:05 PM |
| Sample Name | ICAL,S16363,8x,PDF:1,5ppbv | Instrument | Air-MS-06 |
| Vial | 7 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x50mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 05 1236 TO15_220105.m.batch.bin | Last Calib Update | 1/5/2022 8:11:41 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



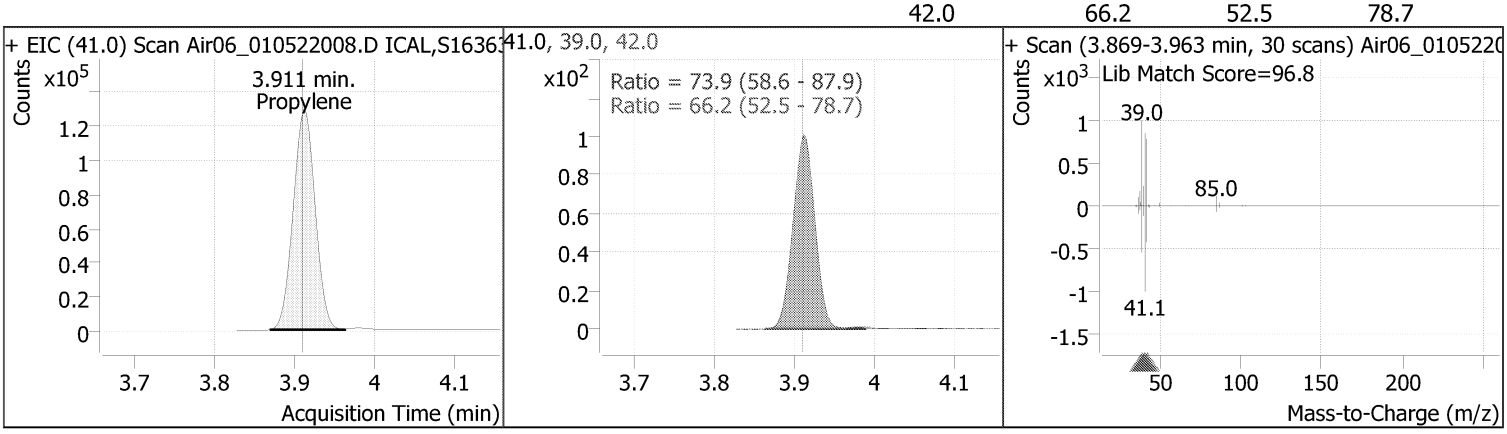

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 413583 | 10.0000 | nL/L | 0.000 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1563755 | 10.0000 | nL/L | 0.000 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 833046 | 10.0000 | nL/L | 0.000 |
| **System Monitoring Compounds** | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1112100 | 9.9317 | nL/L | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 99.32% | | |
| **Target Compounds** | | | | | | QValue |
| T Propylene | 3.911 | 41.0 | 245926 | 5.8910 | nL/L | 99 |
| T Freon 12 | 3.982 | 85.0 | 626455 | 5.4882 | nL/L | 99 |
| T Chloromethane | 4.138 | 50.0 | 288035 | 5.3530 | nL/L | 100 |
| T Freon 114 | 4.241 | 135.0 | 439460 | 5.4441 | nL/L | 97 |
| T Vinyl Chloride | 4.355 | 62.0 | 289643 | 5.3746 | nL/L | 99 |
| T 1,3-Butadiene | 4.491 | 54.0 | 251387 | 5.4909 | nL/L | 97 |
| T Butane | 4.546 | 43.0 | 482507 | 5.3633 | nL/L | 98 |
| T Bromomethane | 4.746 | 96.0 | 214854 | 5.4433 | nL/L | 98 |
| T Chloroethane | 4.908 | 64.0 | 142242 | 5.3729 | nL/L | 100 |
| T Ethanol | 4.999 | 45.0 | 151734 | 5.7913 | nL/L | 99 |
| T Vinyl bromide | 5.235 | 108.0 | 252303 | 5.4367 | nL/L | 99 |
| T Acrolein | 5.329 | 56.0 | 126047 | 5.4400 | nL/L | 99 |
| T Acetone | 5.452 | 58.0 | 153640 | 5.6160 | nL/L | 99 |
| T Trichloromonofluoromethane | 5.623 | 101.0 | 737301 | 5.4279 | nL/L | 100 |
| T Isopropanol (IPA) | 5.672 | 45.0 | 576674 | 6.0462 | nL/L | 99 |
| T n-Pentane | 5.947 | 43.0 | 594028 | 5.3526 | nL/L | 100 |
| T 1,1-Dichloroethene | 6.190 | 61.0 | 544183 | 5.3959 | nL/L | 98 |
| T Tert-butyl alcohol (TBA) | 6.232 | 59.0 | 622910 | 5.5075 | nL/L | 96 |
| T Methylene Chloride | 6.280 | 84.0 | 249820 | 4.9868 | nL/L | 97 |
| T 3-Chloropropene | 6.397 | 76.0 | 120114 | 5.3582 | nL/L | 99 |
| T Freon 113 | 6.539 | 101.0 | 588054 | 5.3746 | nL/L | 99 |
| T Carbon Disulfide | 6.572 | 76.0 | 752585 | 5.3213 | nL/L | 100 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 449507 | 5.3366 | nL/L | | 99 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 553925 | 5.3639 | nL/L | | 100 |
| T MTBE | 7.365 | 73.0 | 737838 | 5.3874 | nL/L | | 97 |
| T Vinyl Acetate | 7.420 | 43.0 | 890578 | 4.7280 | nL/L | | 100 |
| T 2-Butanone | 7.637 | 43.0 | 717247 | 5.3571 | nL/L | | 96 |
| T cis-1,2-Dichloroethene | 8.035 | 61.0 | 455874 | 5.3507 | nL/L | | 99 |
| T Ethyl Acetate | 8.219 | 61.0 | 113611 | 5.4485 | nL/L | | 92 |
| T n-Hexane | 8.245 | 57.0 | 516008 | 5.3436 | nL/L | | 99 |
| T Chloroform | 8.294 | 83.0 | 586567 | 5.3905 | nL/L | | 99 |
| T Tetrahydrofuran | 8.656 | 72.0 | 128190 | 5.3668 | nL/L | | 95 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 424685 | 5.3350 | nL/L | | 100 |
| T 1,1,1-Trichloroethane | 9.197 | 97.0 | 568441 | 5.4198 | nL/L | | 98 |
| T Benzene | 9.608 | 78.0 | 835414 | 5.3145 | nL/L | | 99 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 607913 | 5.4403 | nL/L | | 99 |
| T Cyclohexane | 9.870 | 84.0 | 342525 | 5.1865 | nL/L | | 97 |
| T 1,2-Dichloropropane | 10.342 | 63.0 | 368679 | 5.4814 | nL/L | | 98 |
| T Methane, bromodichloro- | 10.504 | 83.0 | 601307 | 5.4443 | nL/L | | 99 |
| T 1,4-Dioxane | 10.540 | 88.0 | 189734 | 5.3508 | nL/L | | 98 |
| T Trichloroethene | 10.556 | 132.0 | 372261 | 5.3716 | nL/L | | 97 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 1647530 | 5.2664 | nL/L | | 100 |
| T Methyl methacrylate | 10.711 | 69.0 | 314205 | 5.5136 | nL/L | | 99 |
| T n-Heptane | 10.834 | 71.0 | 288710 | 5.4118 | nL/L | | 96 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 116104 | 5.4523 | nL/L | # | 80 |
| T 4-Methyl-2-Pentanone | 11.378 | 58.0 | 317463 | 5.3430 | nL/L | | 99 |
| T trans-1,3-Dichloropropene | 11.815 | 110.0 | 120637 | 5.5555 | nL/L | | 90 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 350299 | 5.4700 | nL/L | | 99 |
| T Toluene | 12.275 | 91.0 | 1051576 | 5.3254 | nL/L | | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 146227290 | 9.6797 | nL/L | | 100 |
| T 2-Hexanone | 12.514 | 58.0 | 420021 | 5.6203 | nL/L | | 99 |
| T Dibromochloromethane | 12.666 | 129.0 | 642481 | 5.5317 | nL/L | | 99 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 539138 | 5.4565 | nL/L | | 100 |
| T Tetrachloroethene | 13.378 | 166.0 | 552062 | 5.4383 | nL/L | | 98 |
| T 1,1,1,2-Tetrachloroethane | 14.032 | 131.0 | 423373 | 5.4491 | nL/L | | 99 |
| T Benzene, chloro- | 14.058 | 112.0 | 826077 | 5.3107 | nL/L | | 98 |
| T Ethylbenzene | 14.443 | 91.0 | 1318741 | 5.3484 | nL/L | | 98 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 111132633 | 10.3013 | nL/L | | 100 |
| T m,p-Xylenes | 14.628 | 91.0 | 2126165 | 10.6515 | nL/L | | 97 |
| T Bromoform | 14.696 | 173.0 | 740853 | 5.5347 | nL/L | | 100 |
| T Styrene | 15.003 | 104.0 | 840801 | 5.3689 | nL/L | | 97 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 802823 | 5.3792 | nL/L | | 100 |
| T o-Xylene | 15.126 | 91.0 | 1084931 | 5.2954 | nL/L | | 98 |
| T n-Nonane | 15.363 | 85.0 | 251783 | 5.3501 | nL/L | | 99 |
| T Isopropylbenzene | 15.774 | 105.0 | 1498990 | 5.3462 | nL/L | | 98 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 378871 | 5.3325 | nL/L | | 92 |
| T n-Propylbenzene | 16.359 | 120.0 | 422974 | 5.4151 | nL/L | | 88 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 1503702 | 5.4483 | nL/L | | 98 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 1297561 | 5.4225 | nL/L | | 97 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 1289322 | 5.4603 | nL/L | | 97 |
| T Benzyl chloride | 17.295 | 91.0 | 1180425 | 5.9294 | nL/L | | 98 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 885973 | 5.4555 | nL/L | | 99 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 891354 | 5.4399 | nL/L | | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 856299 | 5.4412 | nL/L | | 99 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 733546 | 6.0420 | nL/L | | 99 |
| T Naphthalene | 20.532 | 128.0 | 1518517 | 5.9990 | nL/L | | 99 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.117 | 225.0 | 758297 | 5.4589 | nL/L | | 99 |

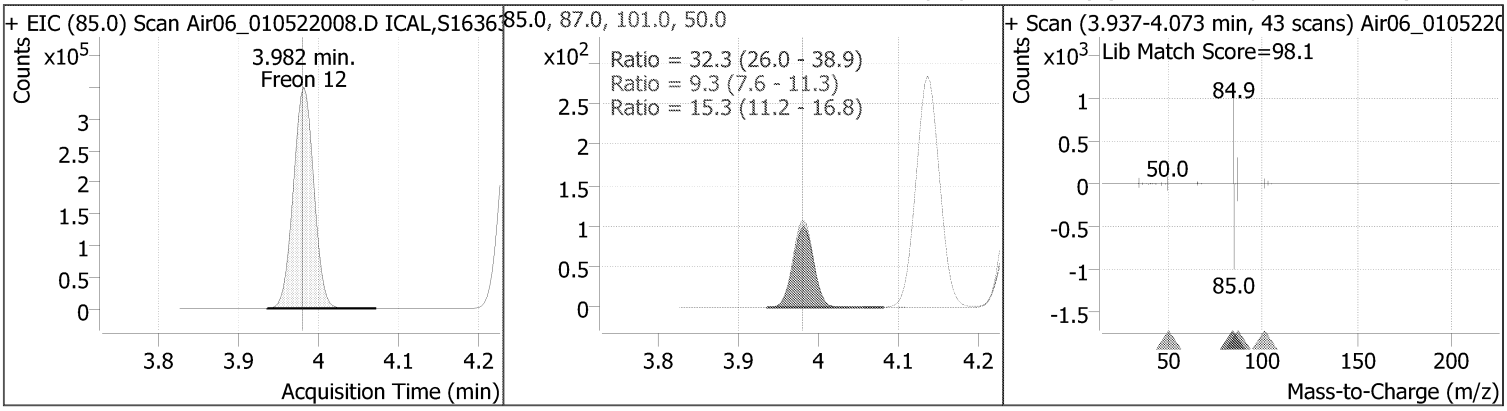
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

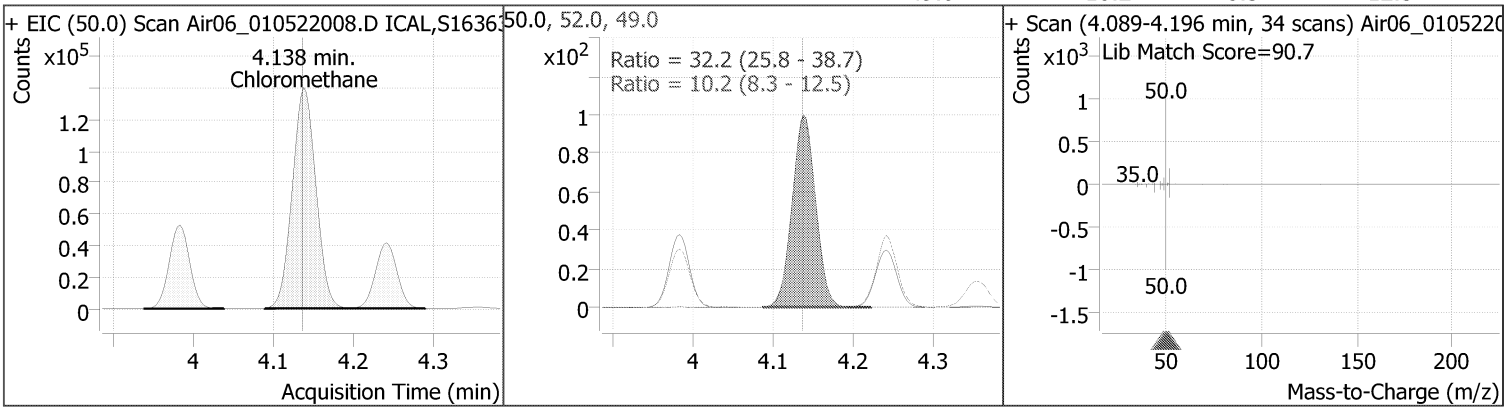
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 5.8910 | 3.91 | 0.00 | 245926 | 39.0 | 73.9 | 58.6 | 87.9 |
| | | | | | 42.0 | 66.2 | 52.5 | 78.7 |



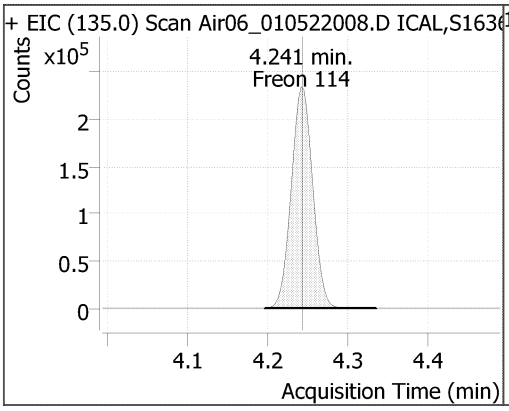

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 5.4882 | 3.98 | 0.00 | 626455 | 87.0 | 32.3 | 26.0 | 38.9 |
| | | | | | 50.0 | 15.3 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.3 | 7.6 | 11.3 |

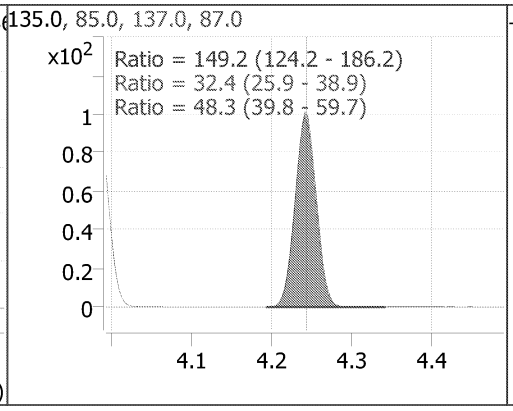


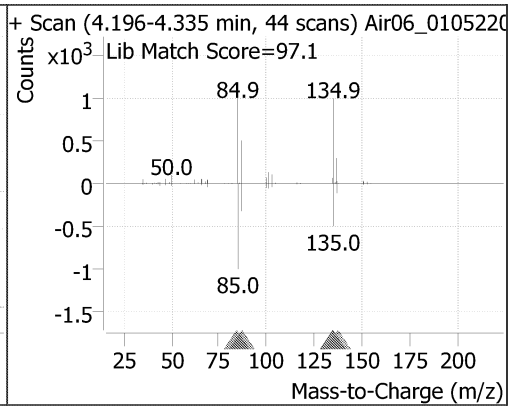

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 5.3530 | 4.14 | 0.00 | 288035 | 52.0 | 32.2 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.2 | 8.3 | 12.5 |



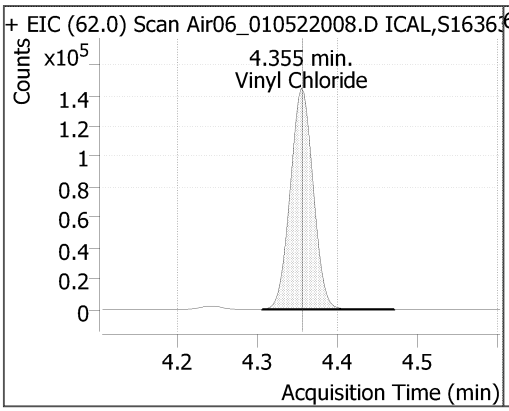
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 5.4441 | 4.24 | 0.00 | 439460 | 85.0 | 149.2 | 124.2 | 186.2 |
| | | | | | 87.0 | 48.3 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.4 | 25.9 | 38.9 |

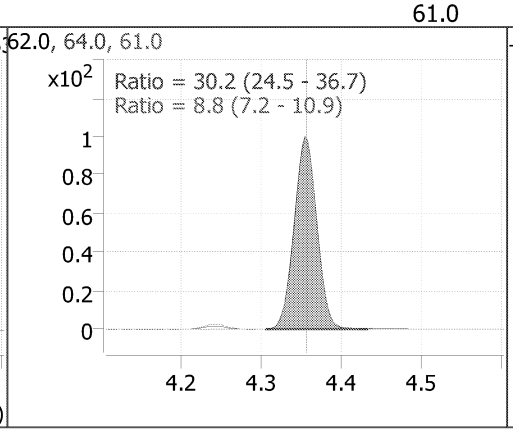


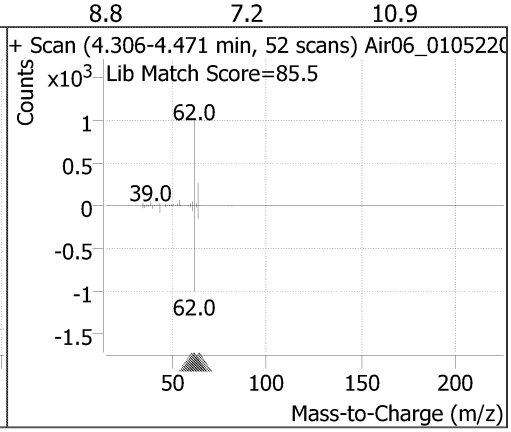



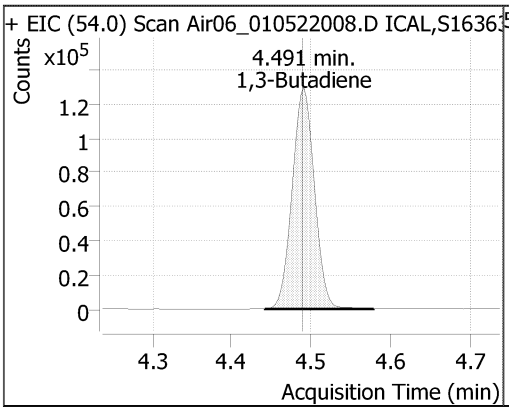

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 5.3746 | 4.35 | 0.00 | 289643 | 64.0 | 30.2 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.8 | 7.2 | 10.9 |

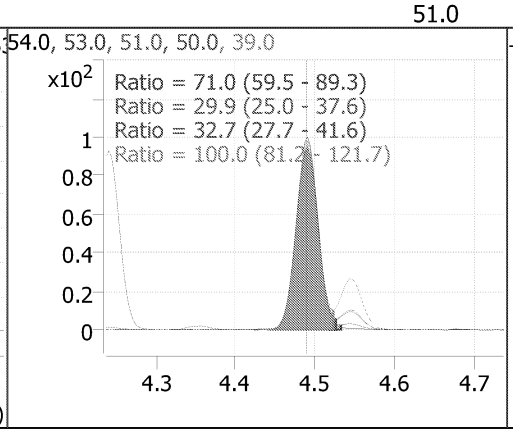


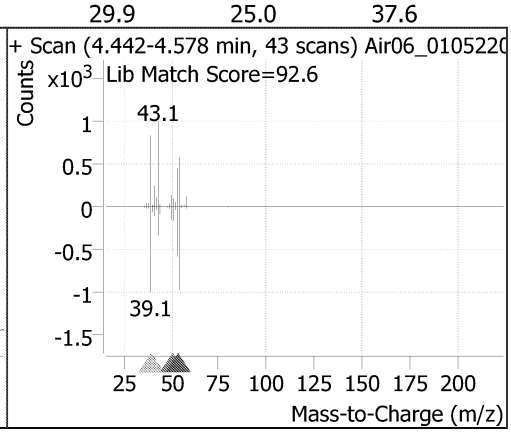



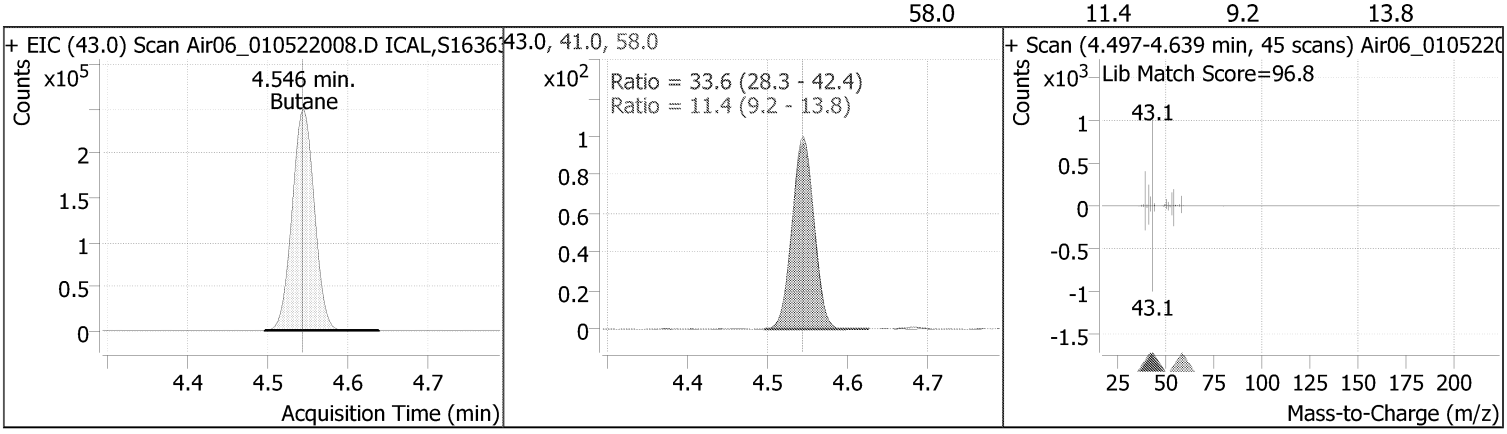

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 5.4909 | 4.49 | 0.00 | 251387 | 39.0 | 100.0 | 81.2 | 121.7 |
| | | | | | 53.0 | 71.0 | 59.5 | 89.3 |
| | | | | | 50.0 | 32.7 | 27.7 | 41.6 |
| | | | | | 51.0 | 29.9 | 25.0 | 37.6 |



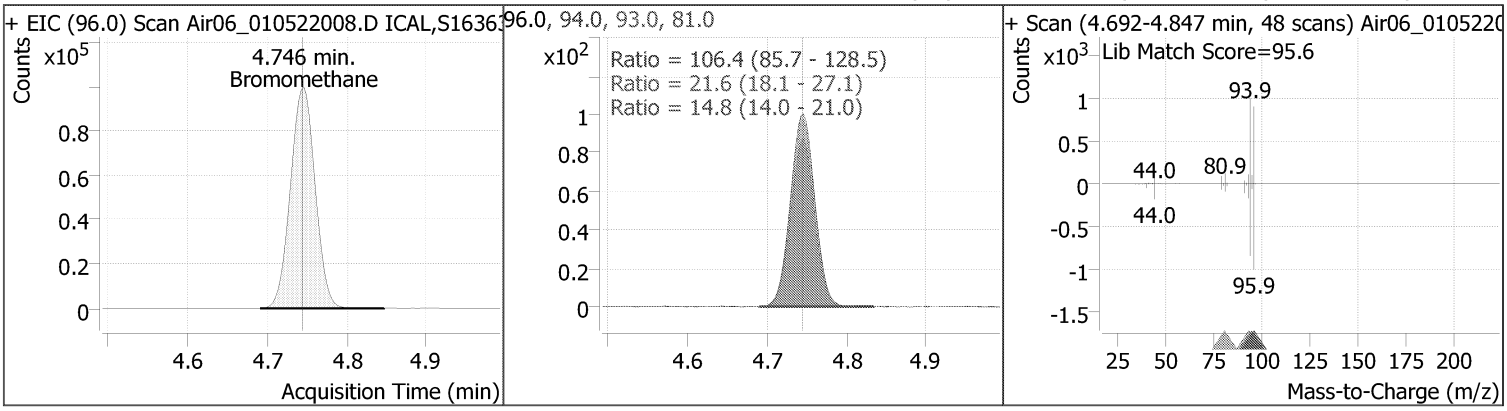



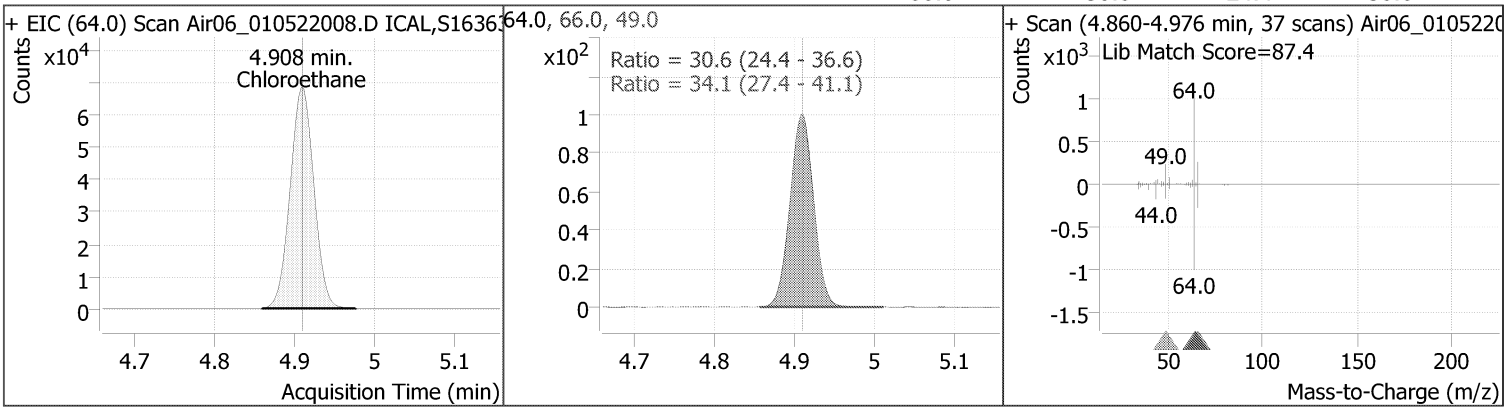
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 5.3633 | 4.55 | 0.00 | 482507 | 41.0 | 33.6 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.4 | 9.2 | 13.8 |



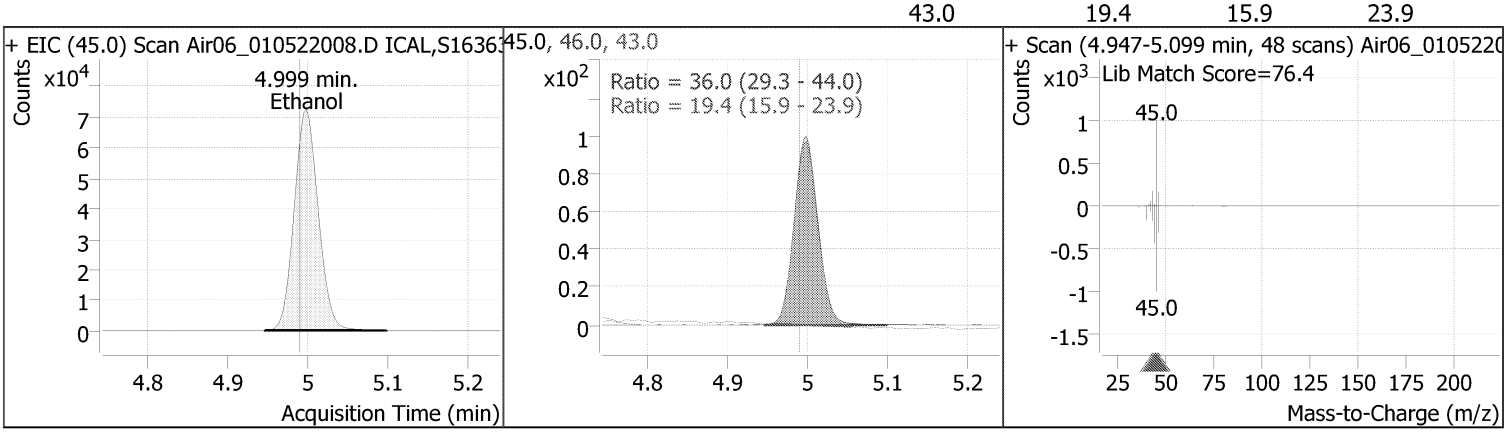

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 5.4433 | 4.75 | 0.00 | 214854 | 94.0 | 106.4 | 85.7 | 128.5 |
| | | | | | 93.0 | 21.6 | 18.1 | 27.1 |
| | | | | | 81.0 | 14.8 | 14.0 | 21.0 |



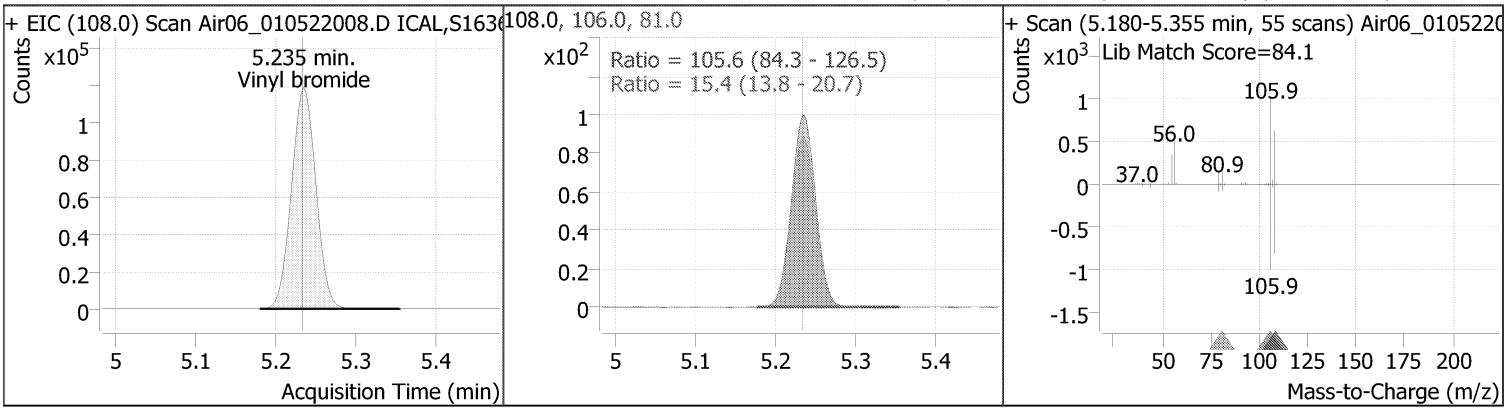

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 5.3729 | 4.91 | 0.00 | 142242 | 49.0 | 34.1 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.6 | 24.4 | 36.6 |



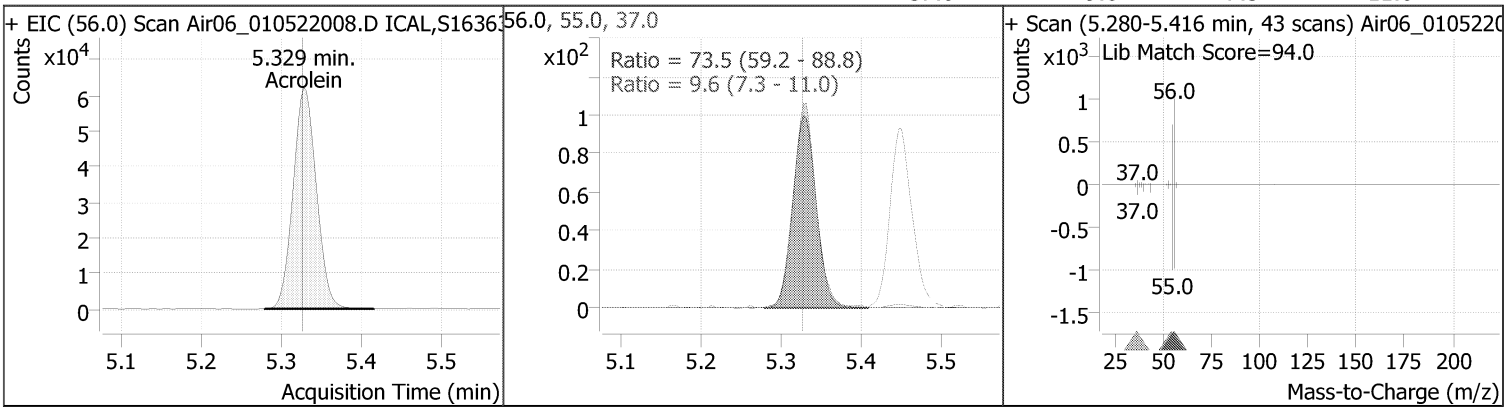
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 5.7913 | 5.00 | 0.01 | 151734 | 46.0 | 36.0 | 29.3 | 44.0 |
| | | | | | 43.0 | 19.4 | 15.9 | 23.9 |



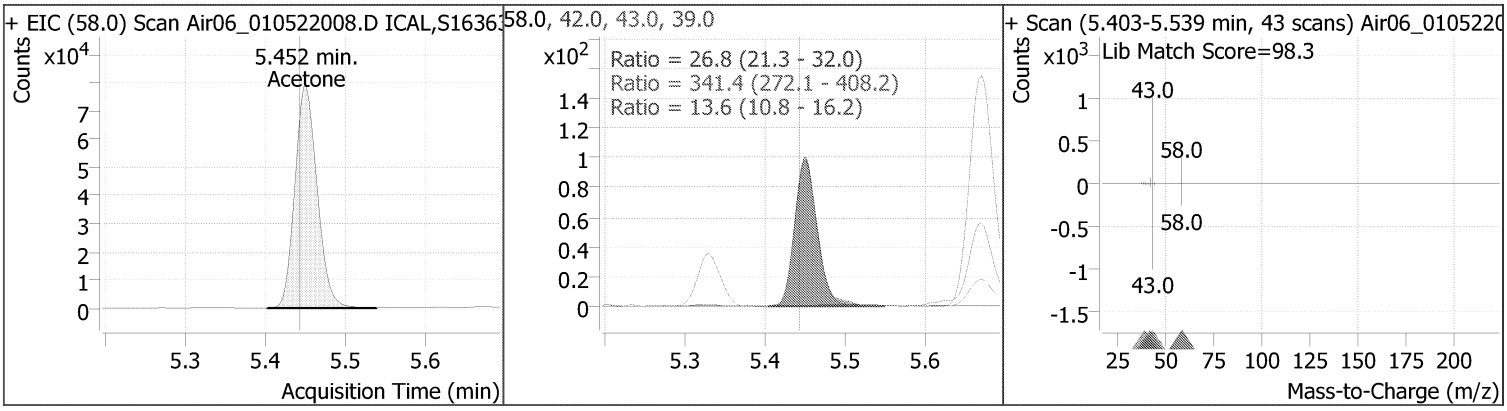

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 5.4367 | 5.23 | 0.00 | 252303 | 106.0 | 105.6 | 84.3 | 126.5 |
| | | | | | 81.0 | 15.4 | 13.8 | 20.7 |



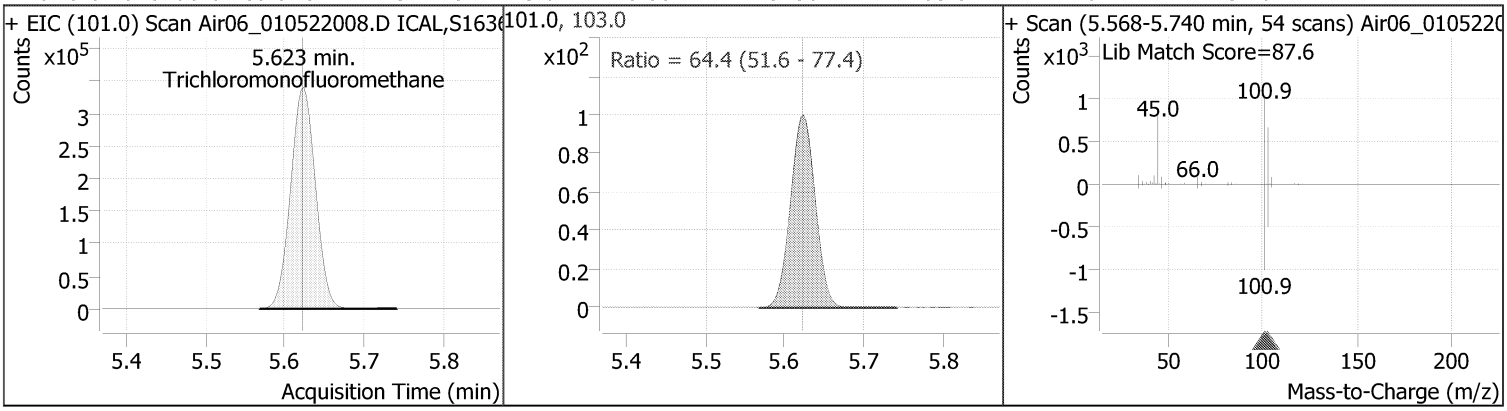

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 5.4400 | 5.33 | 0.00 | 126047 | 55.0 | 73.5 | 59.2 | 88.8 |
| | | | | | 37.0 | 9.6 | 7.3 | 11.0 |



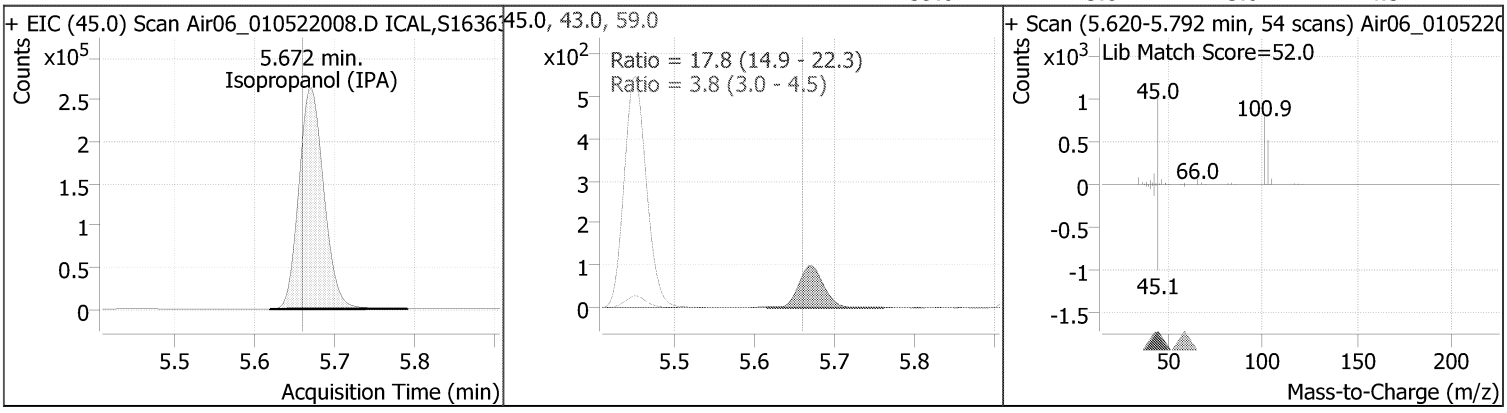
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 5.6160 | 5.45 | 0.01 | 153640 | 43.0 | 341.4 | 272.1 | 408.2 |
| | | | | | 42.0 | 26.8 | 21.3 | 32.0 |
| | | | | | 39.0 | 13.6 | 10.8 | 16.2 |



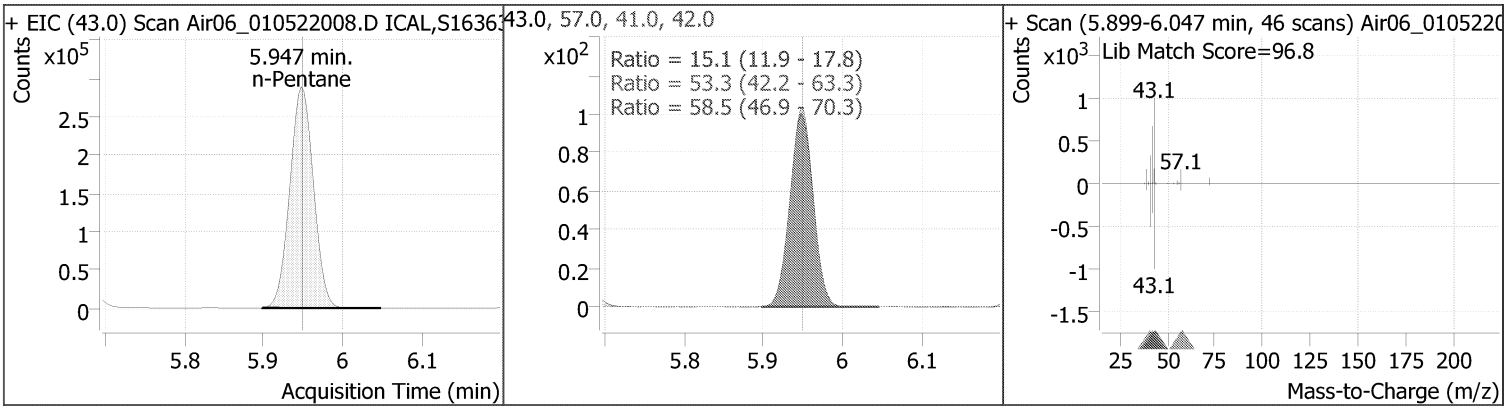

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 5.4279 | 5.62 | 0.00 | 737301 | 103.0 | 64.4 | 51.6 | 77.4 |



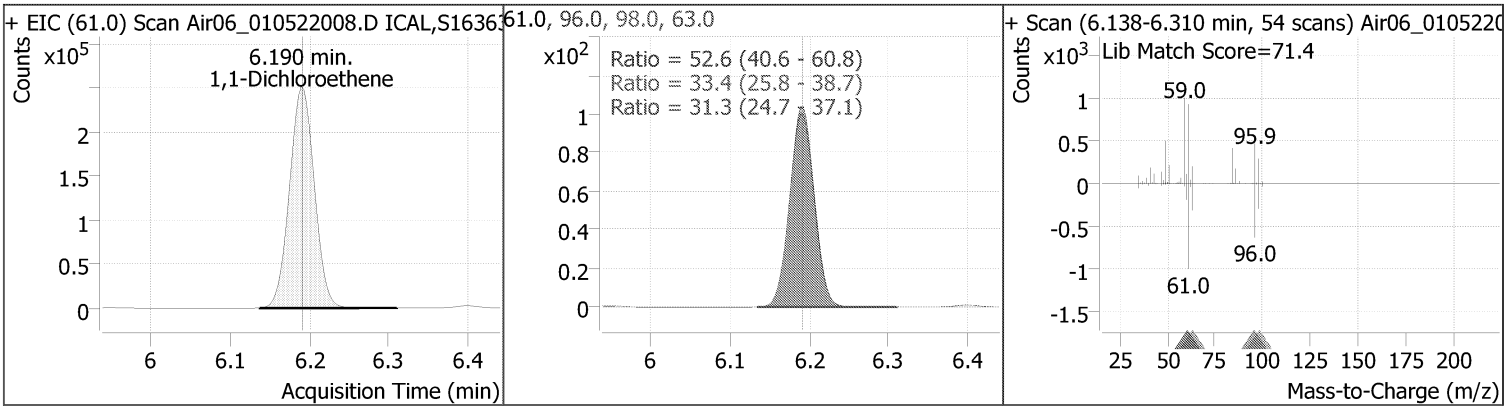

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 6.0462 | 5.67 | 0.01 | 576674 | 43.0 | 17.8 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.8 | 3.0 | 4.5 |



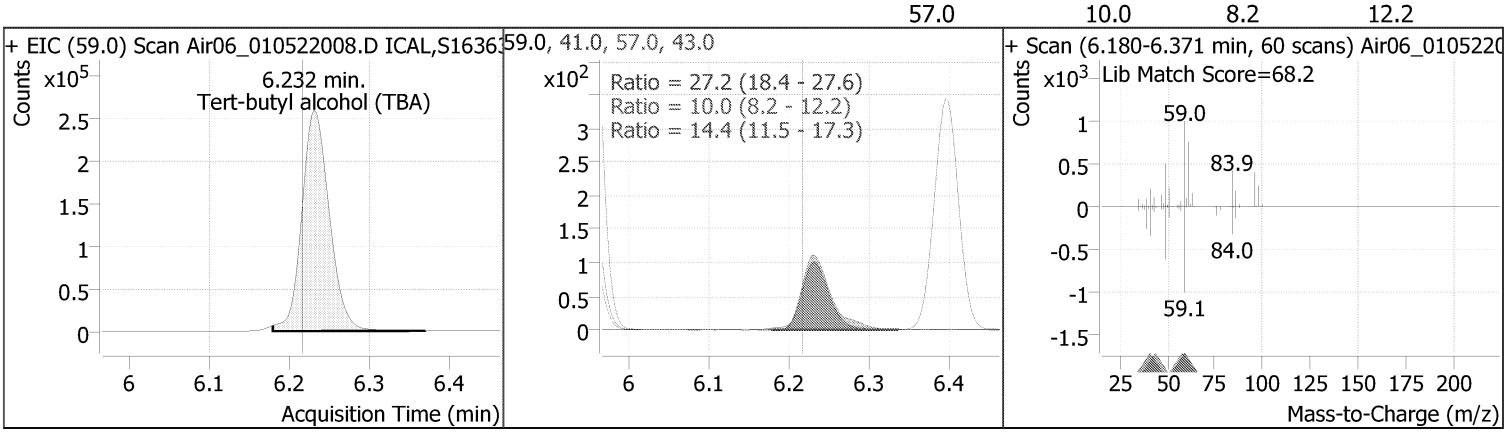
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 5.3526 | 5.95 | 0.00 | 594028 | 42.0 | 58.5 | 46.9 | 70.3 |
| | | | | | 41.0 | 53.3 | 42.2 | 63.3 |
| | | | | | 57.0 | 15.1 | 11.9 | 17.8 |



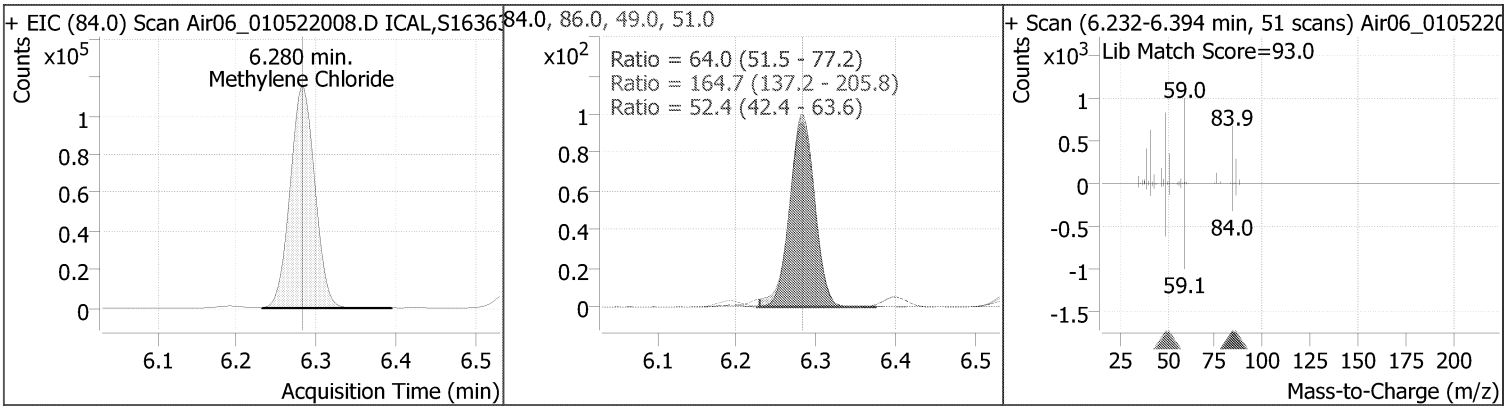

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.3959 | 6.19 | 0.00 | 544183 | 96.0 | 52.6 | 40.6 | 60.8 |
| | | | | | 98.0 | 33.4 | 25.8 | 38.7 |
| | | | | | 63.0 | 31.3 | 24.7 | 37.1 |



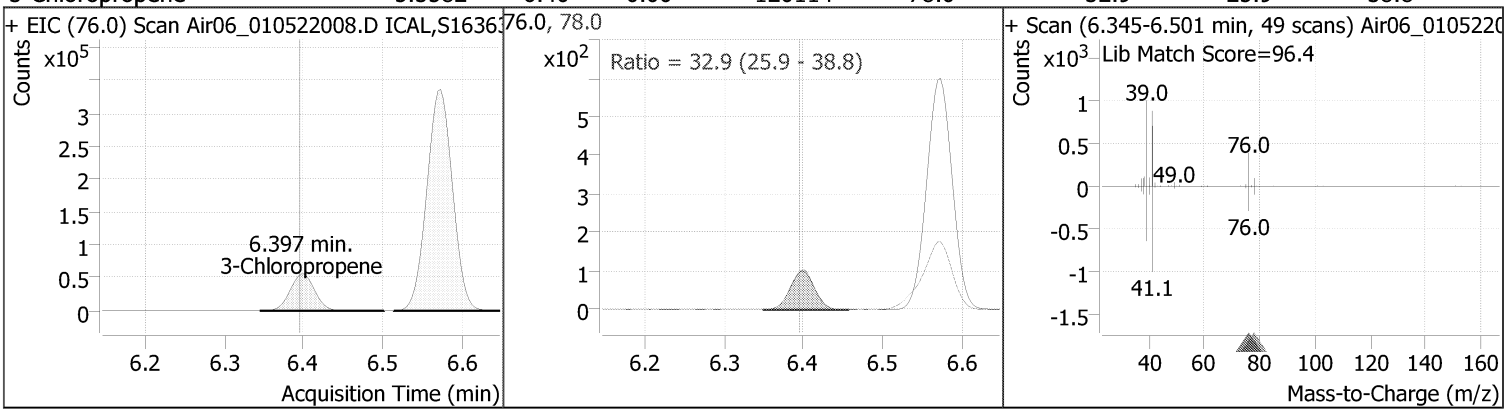

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 5.5075 | 6.23 | 0.02 | 622910 | 41.0 | 27.2 | 18.4 | 27.6 |
| | | | | | 43.0 | 14.4 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.0 | 8.2 | 12.2 |



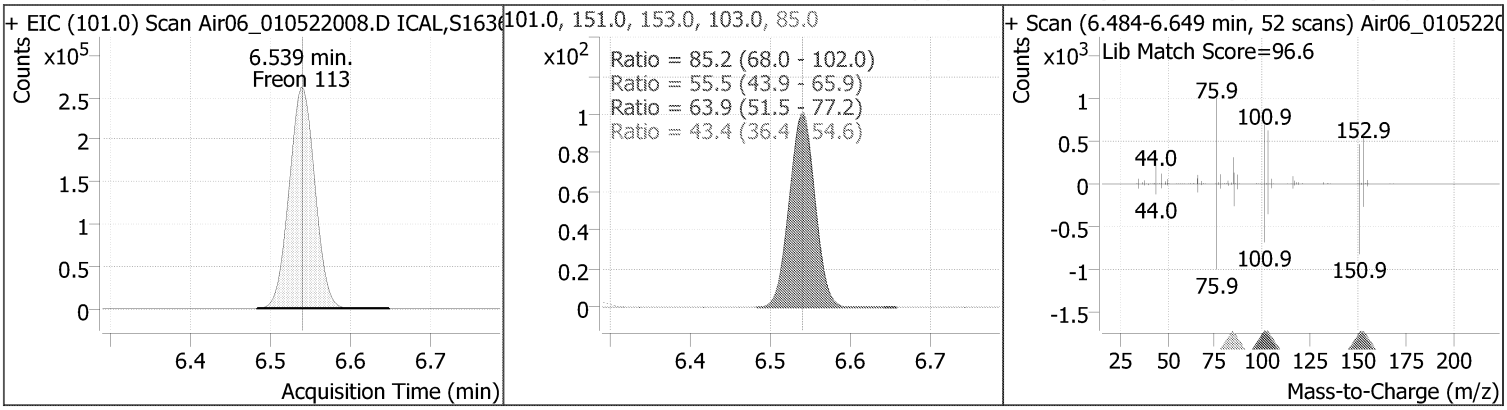
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 4.9868 | 6.28 | 0.00 | 249820 | 49.0 | 164.7 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.0 | 51.5 | 77.2 |
| | | | | | 51.0 | 52.4 | 42.4 | 63.6 |



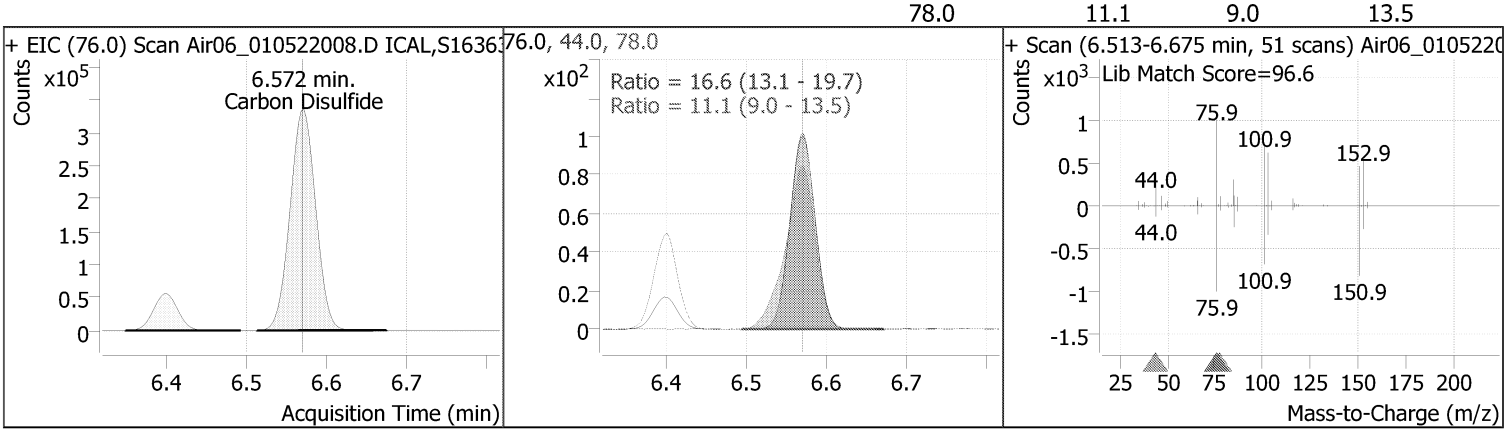

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 5.3582 | 6.40 | 0.00 | 120114 | 78.0 | 32.9 | 25.9 | 38.8 |



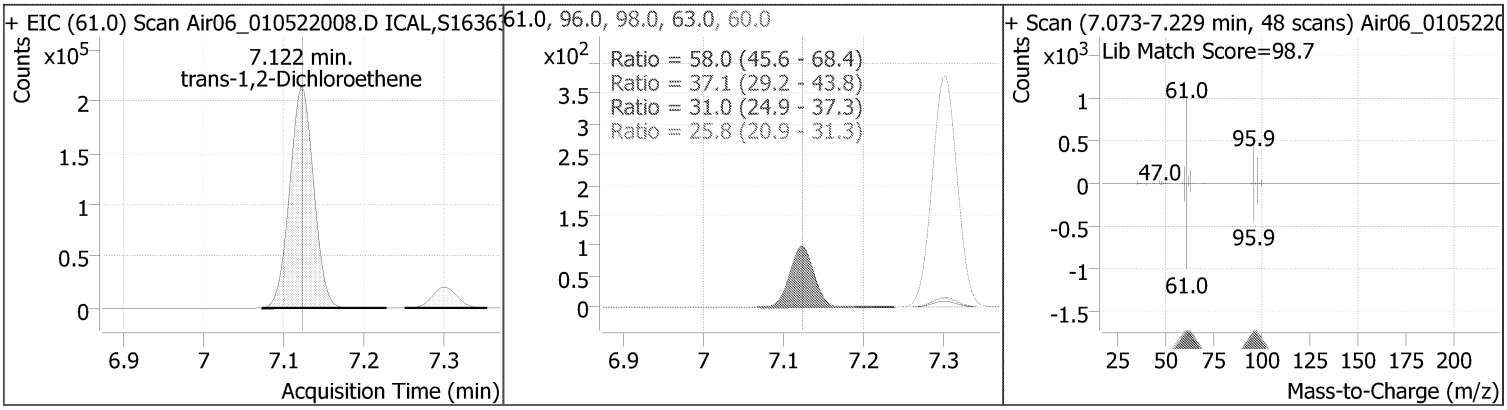

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 5.3746 | 6.54 | 0.00 | 588054 | 151.0 | 85.2 | 68.0 | 102.0 |
| | | | | | 103.0 | 63.9 | 51.5 | 77.2 |
| | | | | | 153.0 | 55.5 | 43.9 | 65.9 |
| | | | | | 85.0 | 43.4 | 36.4 | 54.6 |



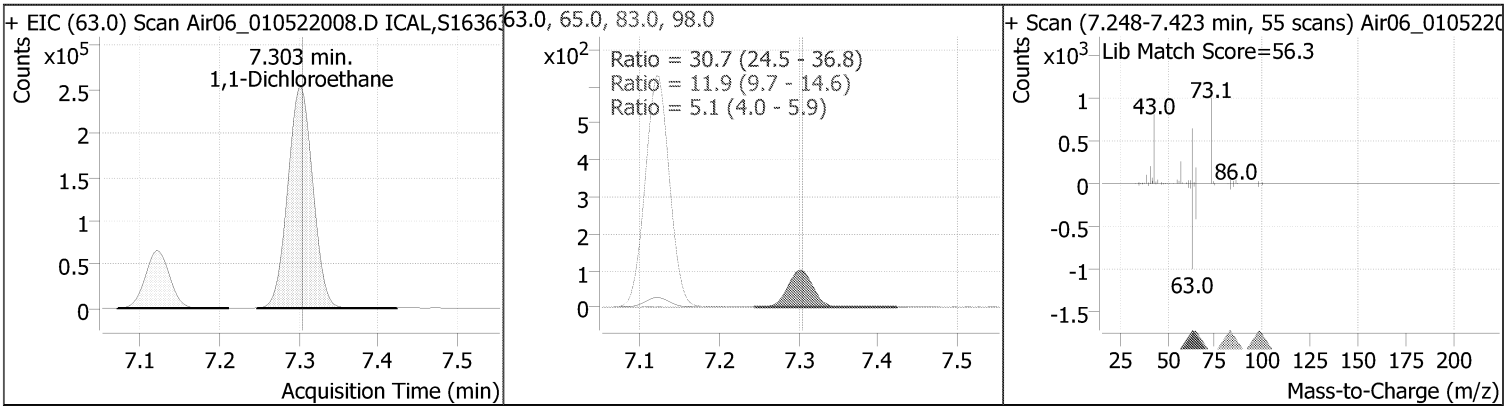
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 5.3213 | 6.57 | 0.00 | 752585 | 44.0 | 16.6 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.1 | 9.0 | 13.5 |



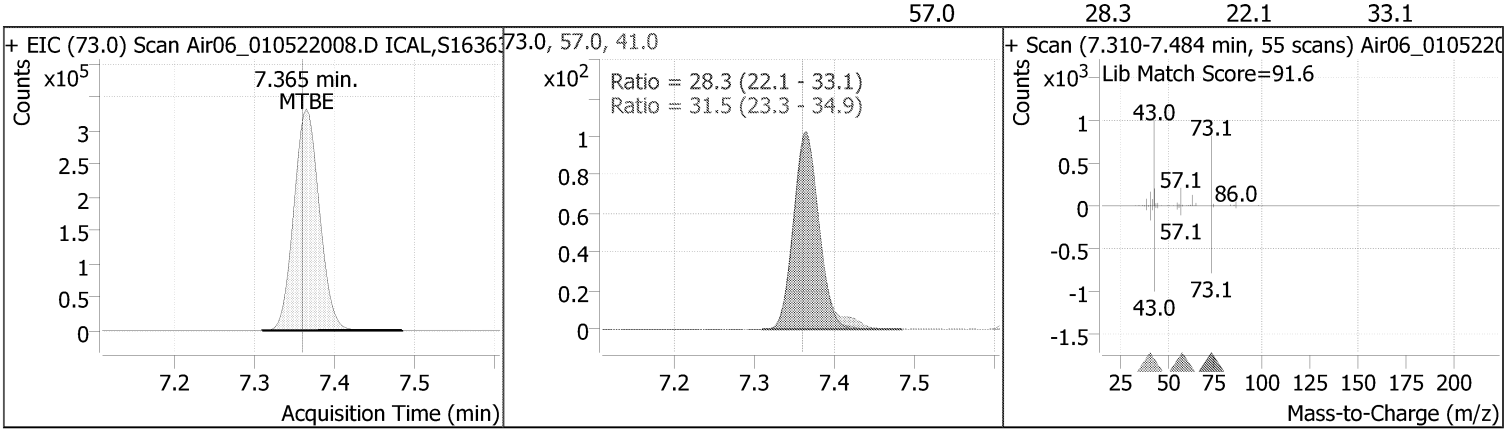

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 5.3366 | 7.12 | 0.00 | 449507 | 96.0 | 58.0 | 45.6 | 68.4 |
| | | | | | 98.0 | 37.1 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.0 | 24.9 | 37.3 |
| | | | | | 60.0 | 25.8 | 20.9 | 31.3 |



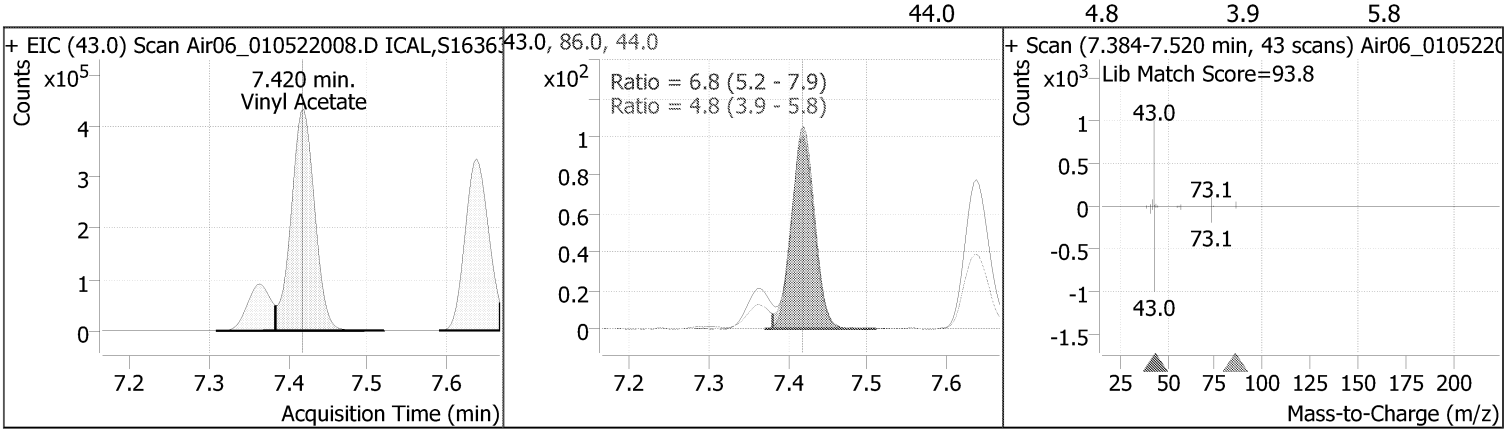

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 5.3639 | 7.30 | 0.00 | 553925 | 65.0 | 30.7 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.9 | 9.7 | 14.6 |
| | | | | | 98.0 | 5.1 | 4.0 | 5.9 |



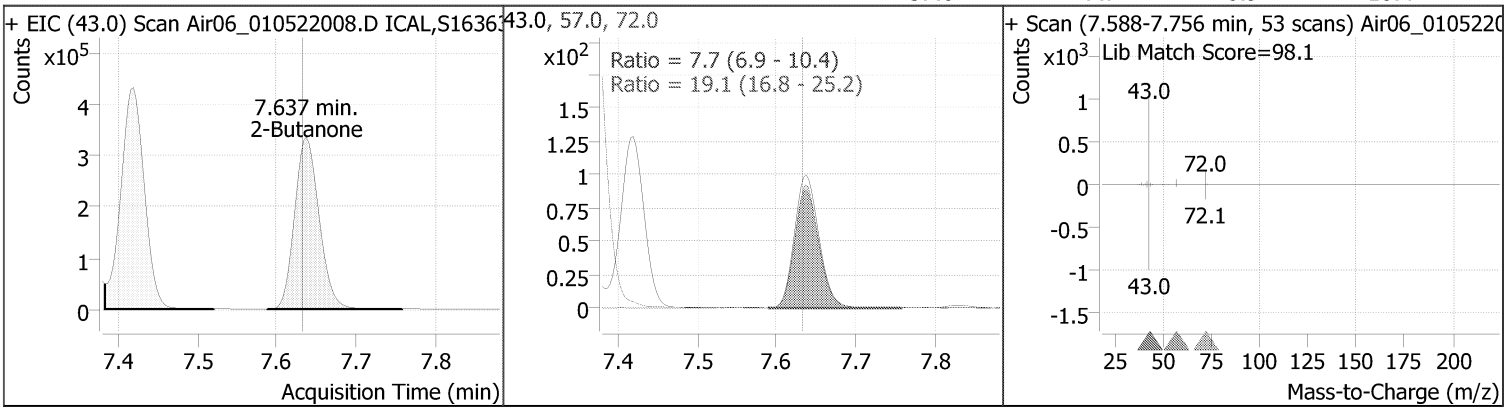
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 5.3874 | 7.36 | 0.01 | 737838 | 41.0 | 31.5 | 23.3 | 34.9 |
| | | | | | 57.0 | 28.3 | 22.1 | 33.1 |



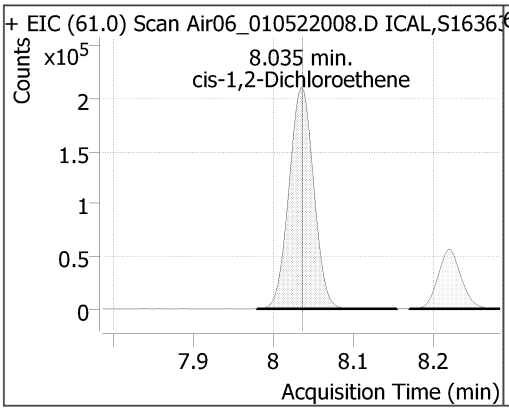

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 4.7280 | 7.42 | 0.00 | 890578 | 86.0 | 6.8 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.8 | 3.9 | 5.8 |

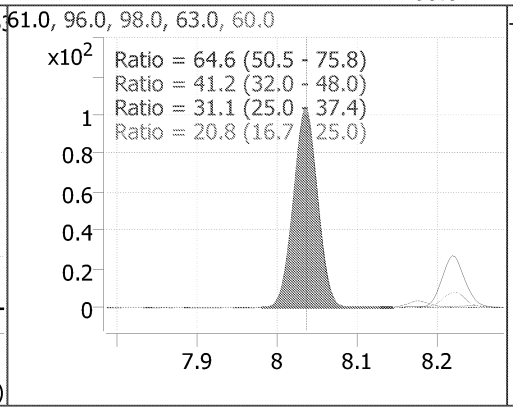


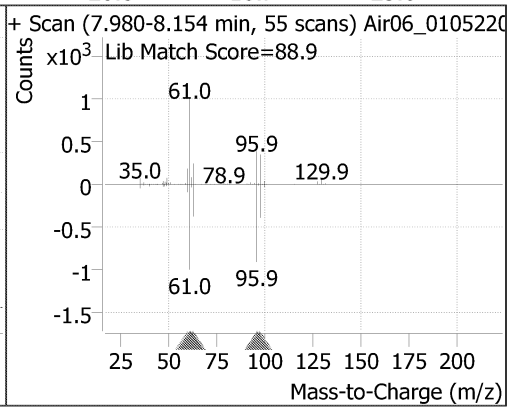

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 5.3571 | 7.64 | 0.01 | 717247 | 72.0 | 19.1 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.7 | 6.9 | 10.4 |



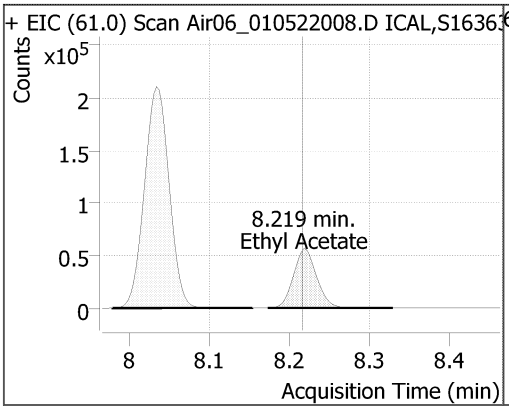
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 5.3507 | 8.03 | 0.00 | 455874 | 96.0 | 64.6 | 50.5 | 75.8 |
| | | | | | 98.0 | 41.2 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.1 | 25.0 | 37.4 |
| | | | | | 60.0 | 20.8 | 16.7 | 25.0 |

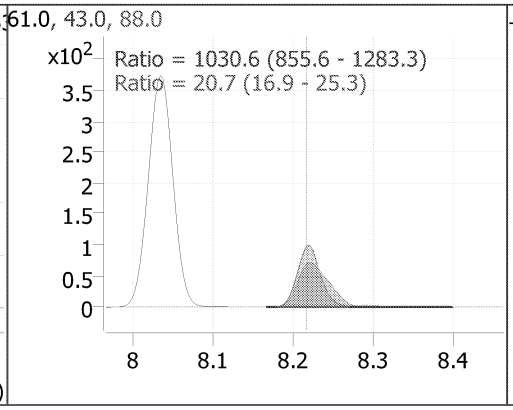


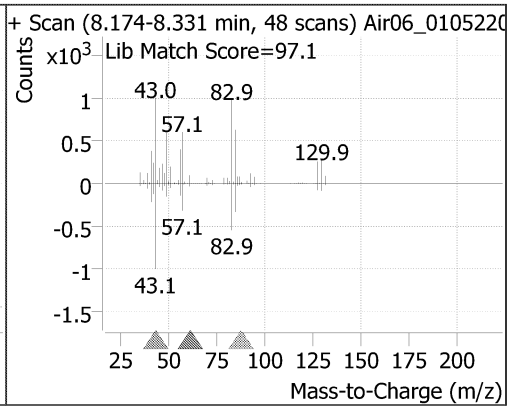



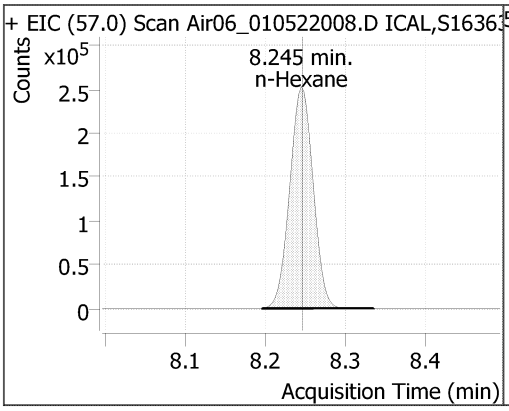

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 5.4485 | 8.22 | 0.00 | 113611 | 43.0 | 1030.6 | 855.6 | 1283.3 |
| | | | | | 88.0 | 20.7 | 16.9 | 25.3 |

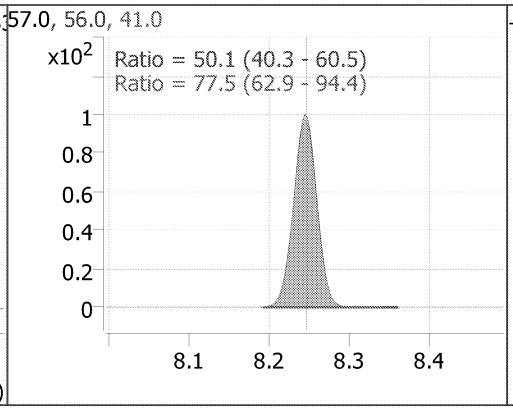


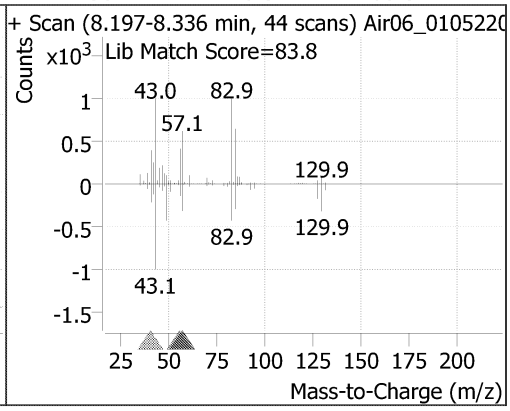



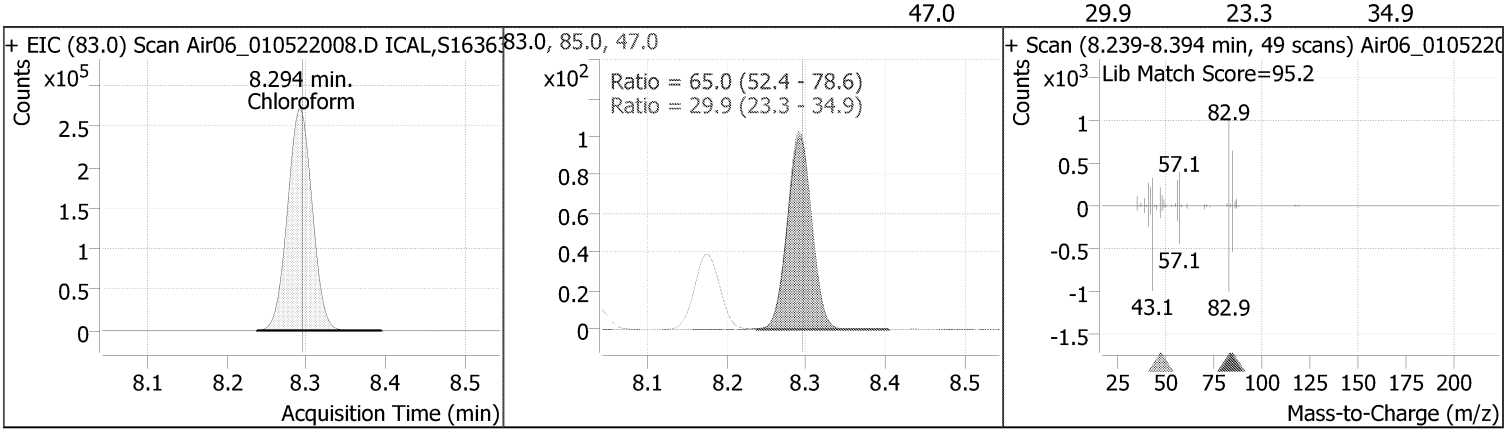

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 5.3436 | 8.25 | 0.00 | 516008 | 41.0 | 77.5 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.1 | 40.3 | 60.5 |



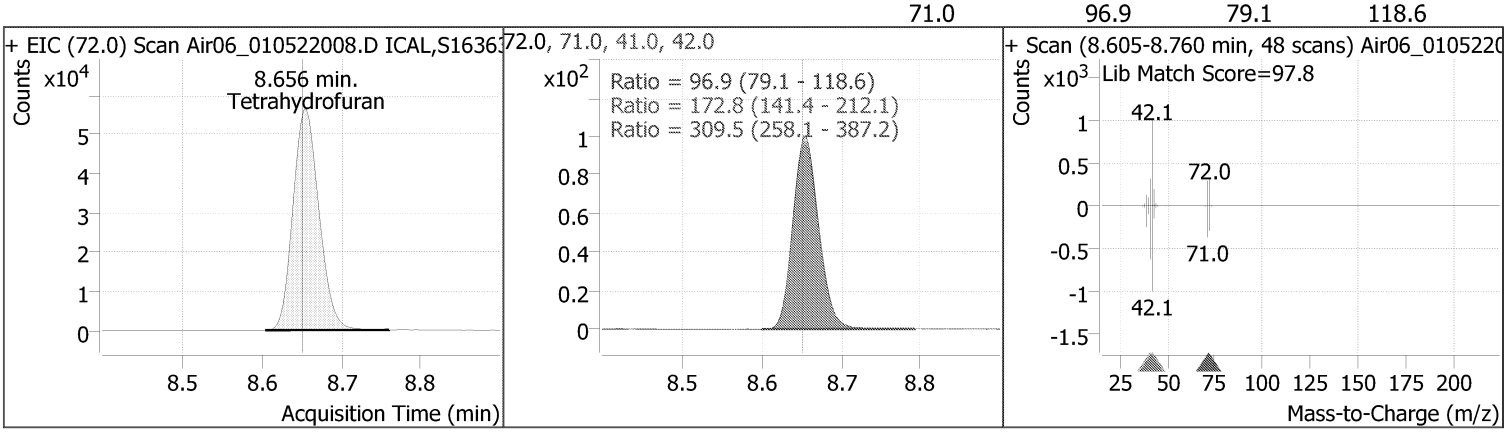



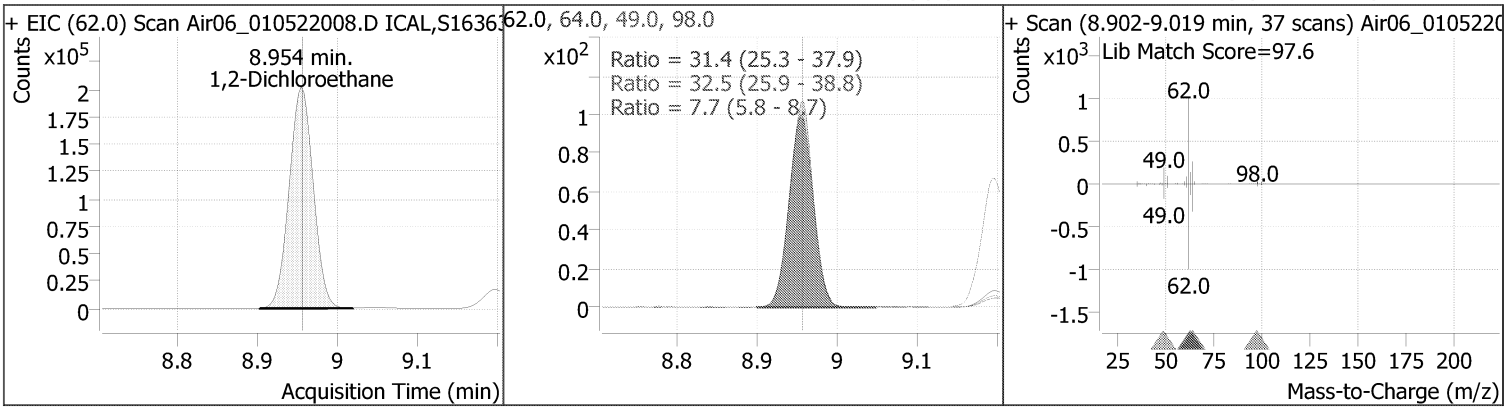
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.3905 | 8.29 | 0.00 | 586567 | 85.0 | 65.0 | 52.4 | 78.6 |
| | | | | | 47.0 | 29.9 | 23.3 | 34.9 |



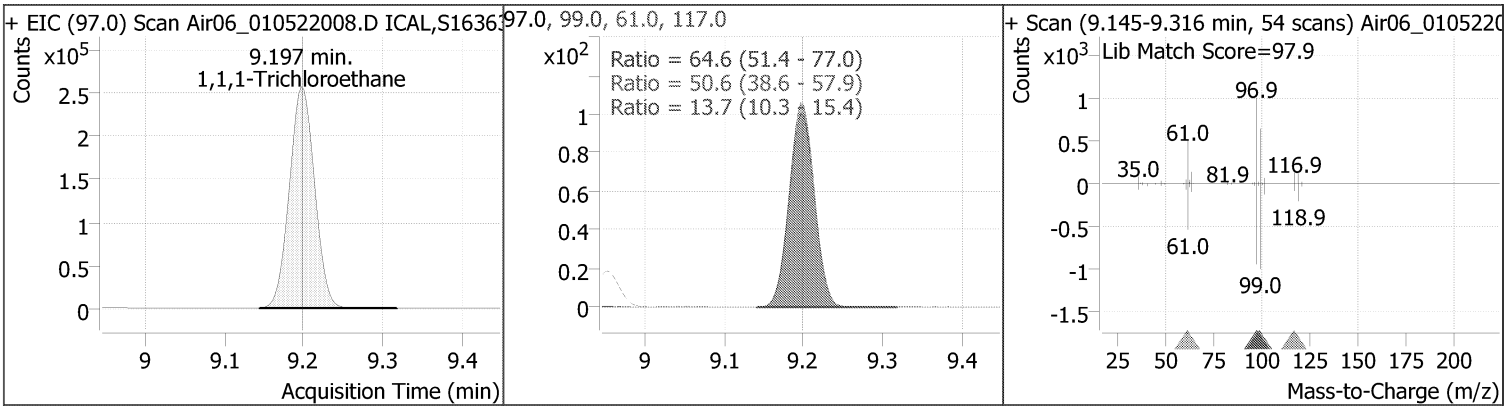

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 5.3668 | 8.66 | 0.01 | 128190 | 42.0 | 309.5 | 258.1 | 387.2 |
| | | | | | 41.0 | 172.8 | 141.4 | 212.1 |
| | | | | | 71.0 | 96.9 | 79.1 | 118.6 |



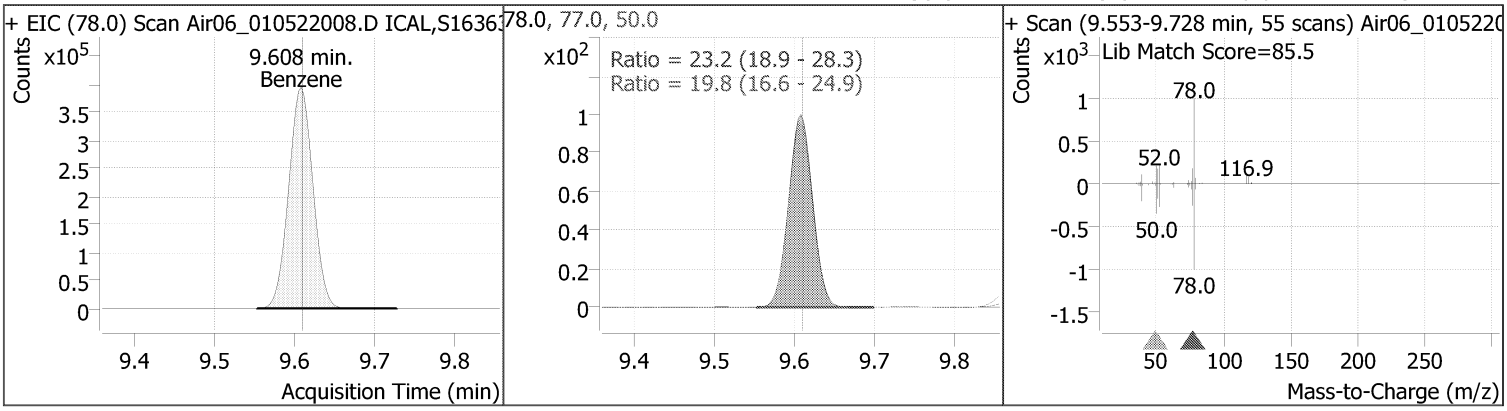

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 5.3350 | 8.95 | 0.00 | 424685 | 49.0 | 32.5 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.4 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.7 | 5.8 | 8.7 |



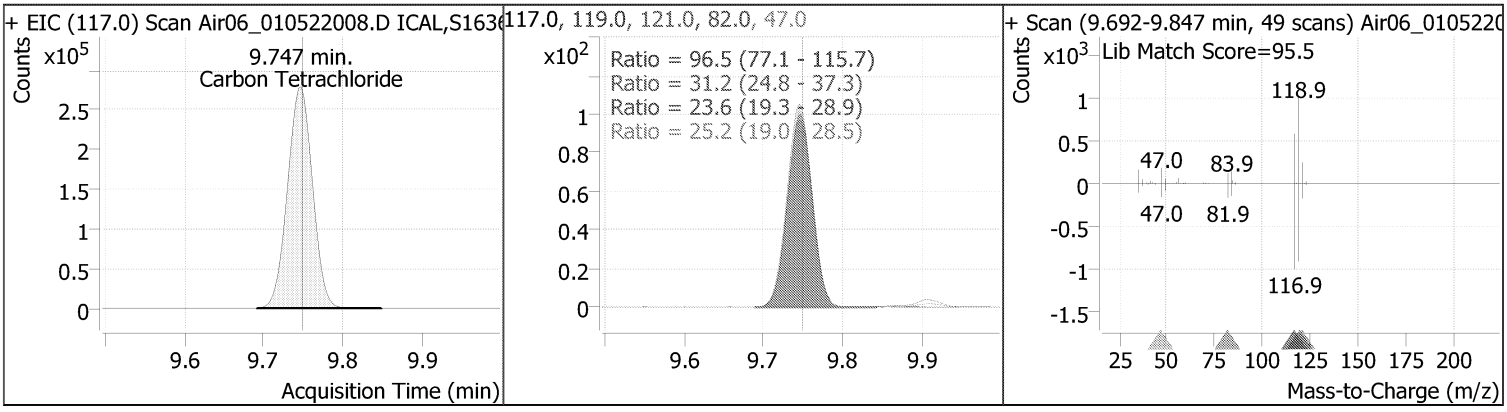
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 5.4198 | 9.20 | 0.00 | 568441 | 99.0 | 64.6 | 51.4 | 77.0 |
| | | | | | 61.0 | 50.6 | 38.6 | 57.9 |
| | | | | | 117.0 | 13.7 | 10.3 | 15.4 |



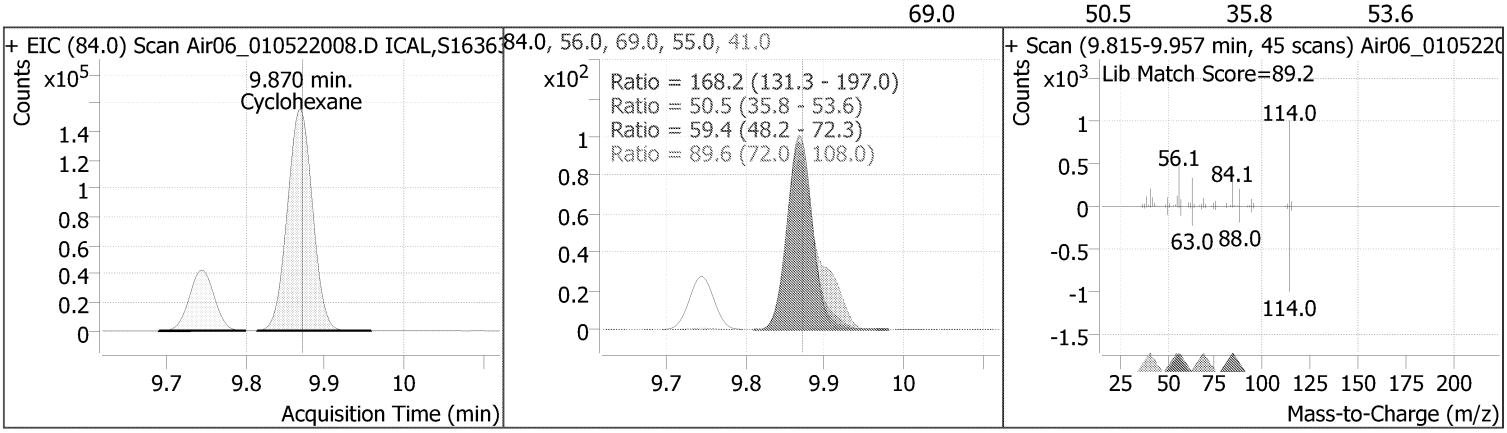

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 5.3145 | 9.61 | 0.00 | 835414 | 77.0 | 23.2 | 18.9 | 28.3 |
| | | | | | 50.0 | 19.8 | 16.6 | 24.9 |



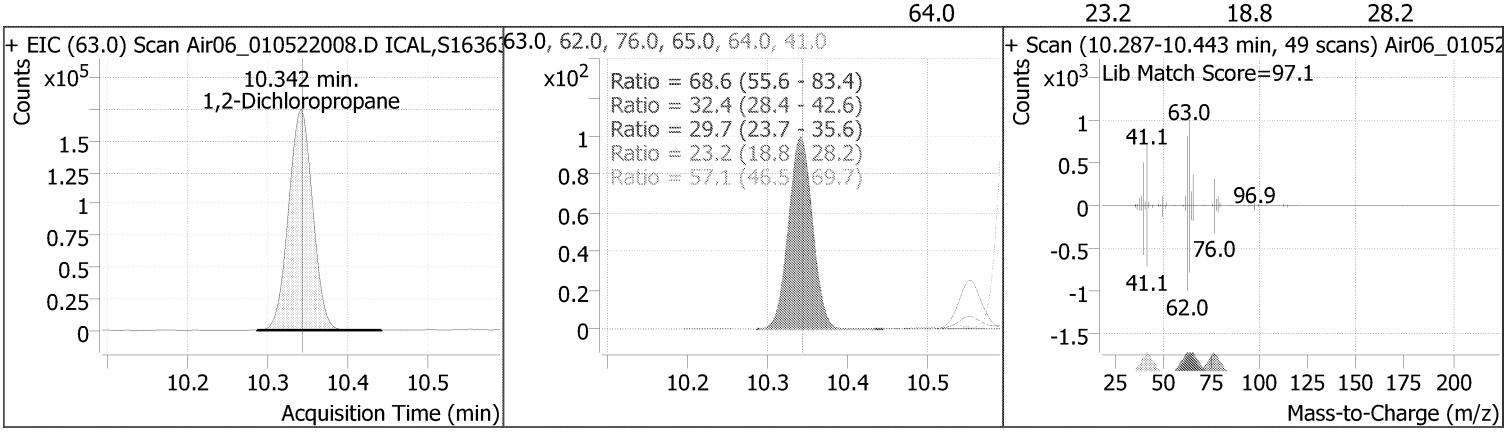

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 5.4403 | 9.75 | 0.00 | 607913 | 119.0 | 96.5 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.2 | 24.8 | 37.3 |
| | | | | | 82.0 | 23.6 | 19.3 | 28.9 |
| | | | | | 47.0 | 25.2 | 19.0 | 28.5 |



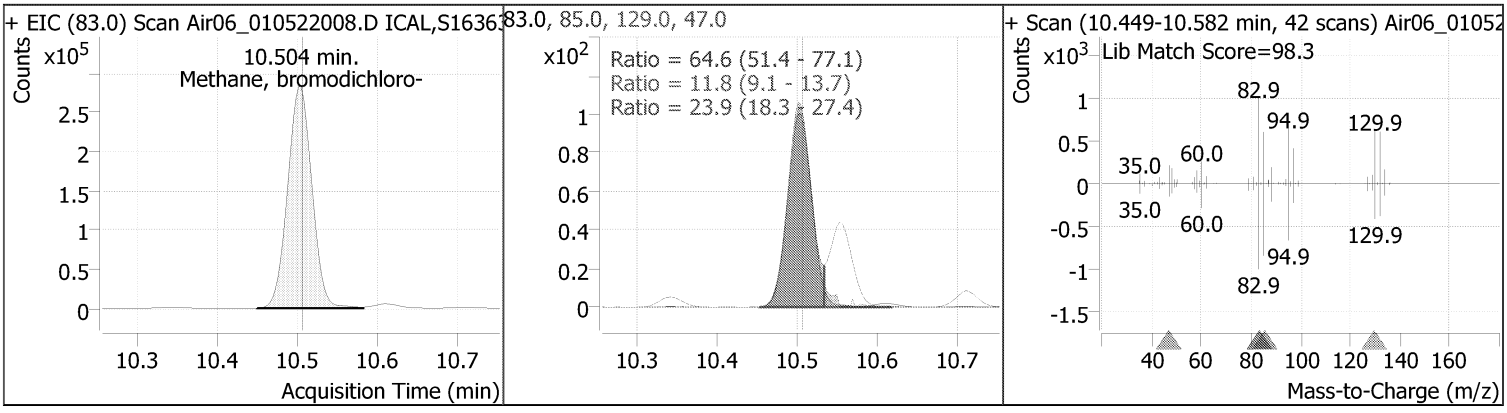
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 5.1865 | 9.87 | 0.00 | 342525 | 56.0 | 168.2 | 131.3 | 197.0 |
| | | | | | 41.0 | 89.6 | 72.0 | 108.0 |
| | | | | | 55.0 | 59.4 | 48.2 | 72.3 |
| | | | | | 69.0 | 50.5 | 35.8 | 53.6 |



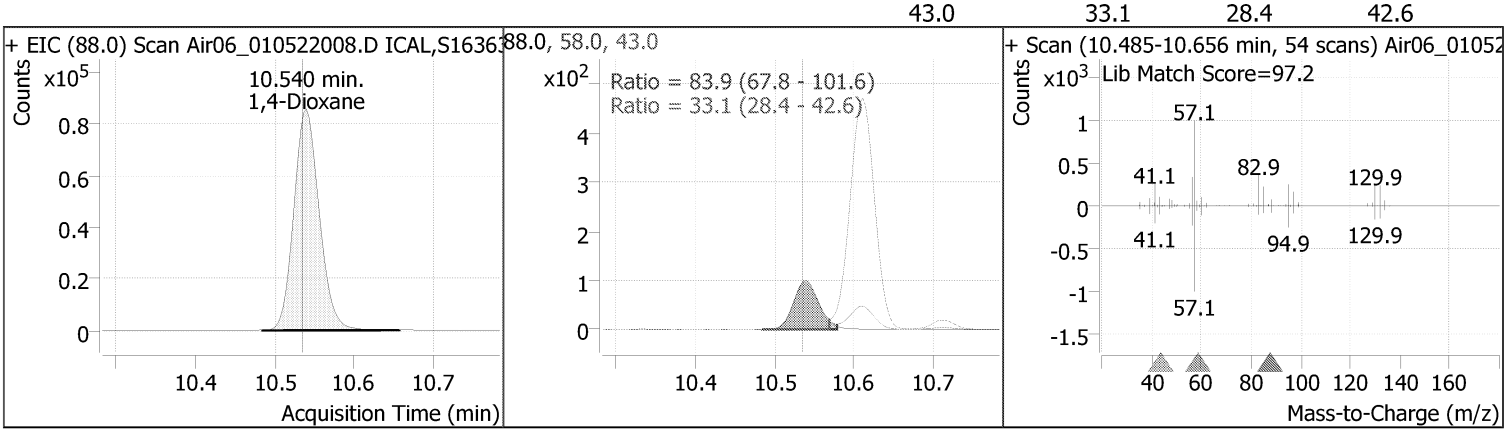

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 5.4814 | 10.34 | 0.00 | 368679 | 62.0 | 68.6 | 55.6 | 83.4 |
| | | | | | 41.0 | 57.1 | 46.5 | 69.7 |
| | | | | | 76.0 | 32.4 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.7 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.2 | 18.8 | 28.2 |



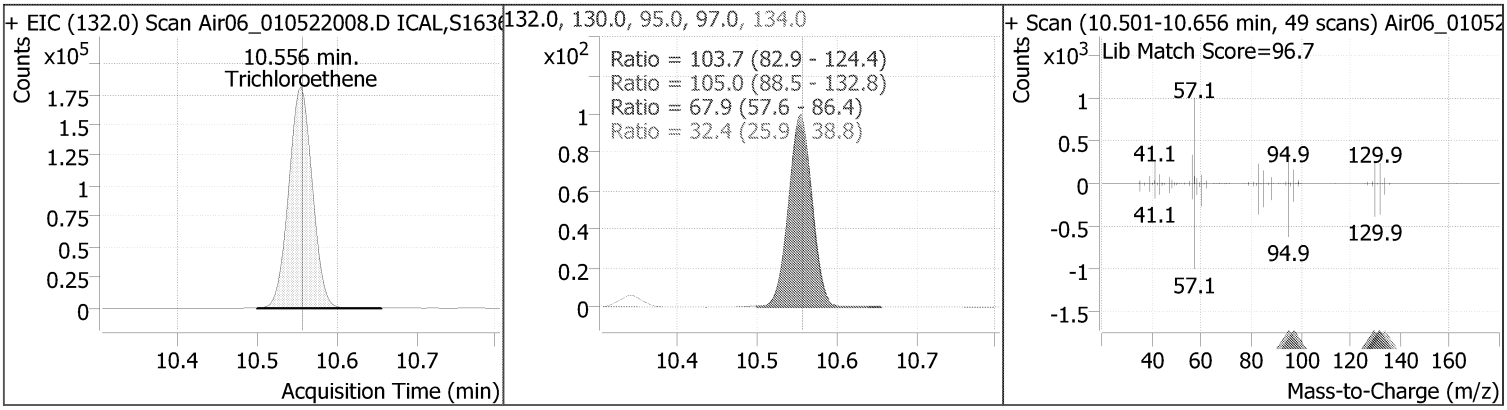

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 5.4443 | 10.50 | 0.00 | 601307 | 85.0 | 64.6 | 51.4 | 77.1 |
| | | | | | 47.0 | 23.9 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.8 | 9.1 | 13.7 |



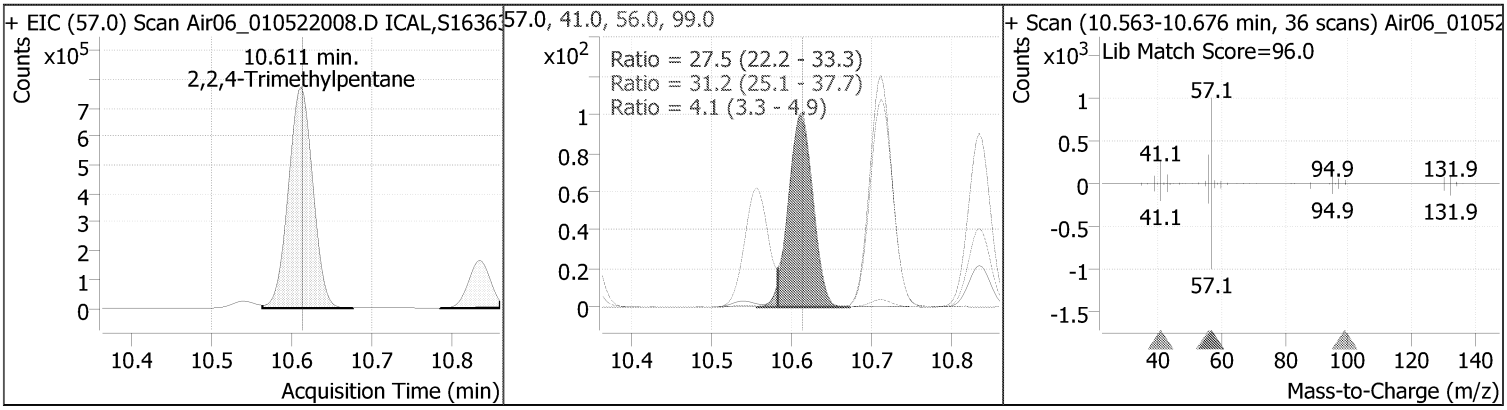
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 5.3508 | 10.54 | 0.01 | 189734 | 58.0 | 83.9 | 67.8 | 101.6 |
| | | | | | 43.0 | 33.1 | 28.4 | 42.6 |



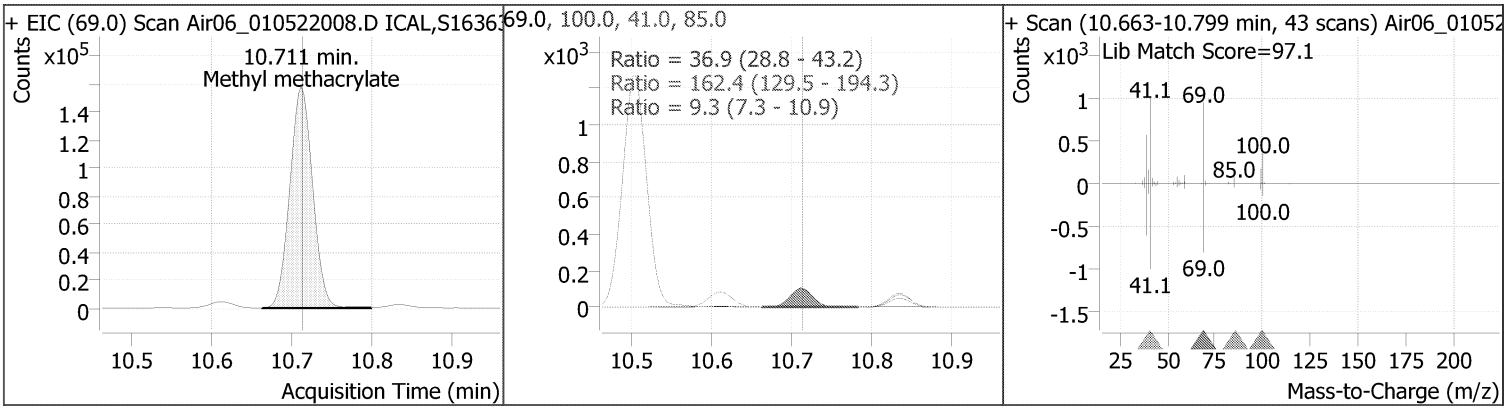

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.3716 | 10.56 | 0.00 | 372261 | 95.0 | 105.0 | 88.5 | 132.8 |
| | | | | | 130.0 | 103.7 | 82.9 | 124.4 |
| | | | | | 97.0 | 67.9 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.4 | 25.9 | 38.8 |



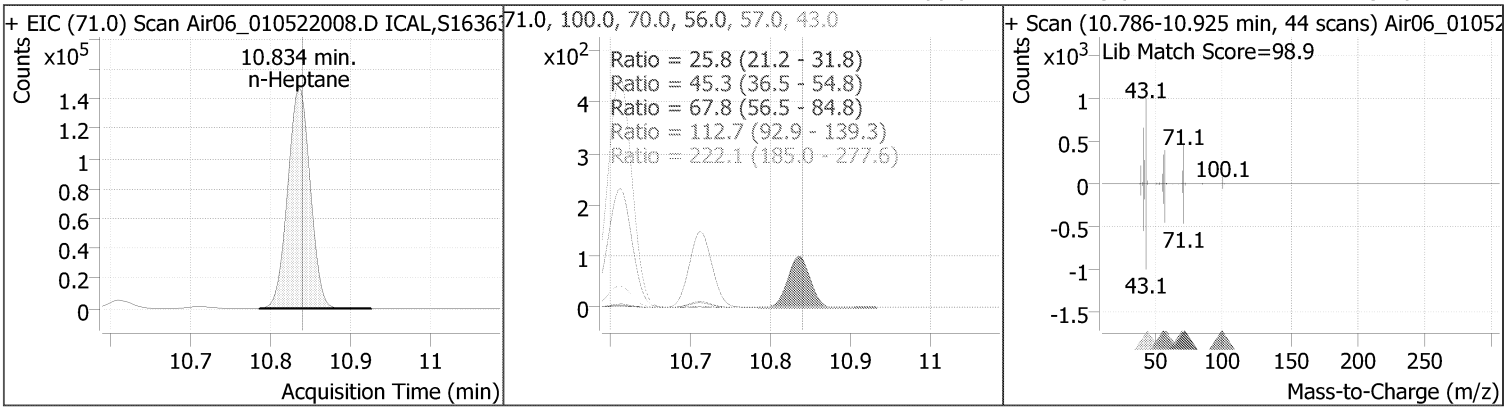

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 5.2664 | 10.61 | 0.00 | 1647530 | 56.0 | 31.2 | 25.1 | 37.7 |
| | | | | | 41.0 | 27.5 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.1 | 3.3 | 4.9 |



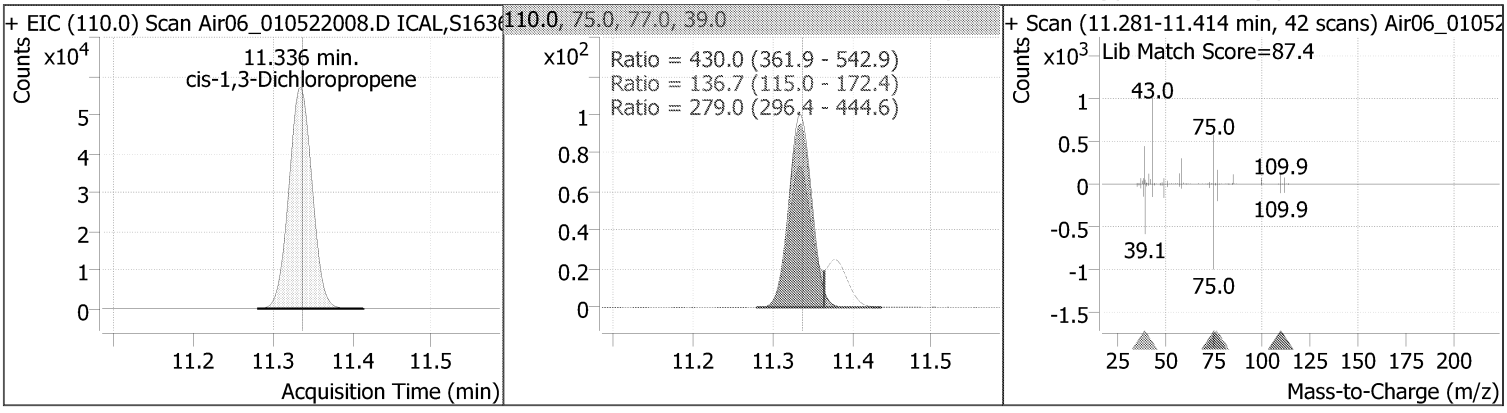
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 5.5136 | 10.71 | 0.00 | 314205 | 41.0 | 162.4 | 129.5 | 194.3 |
| | | | | | 100.0 | 36.9 | 28.8 | 43.2 |
| | | | | | 85.0 | 9.3 | 7.3 | 10.9 |



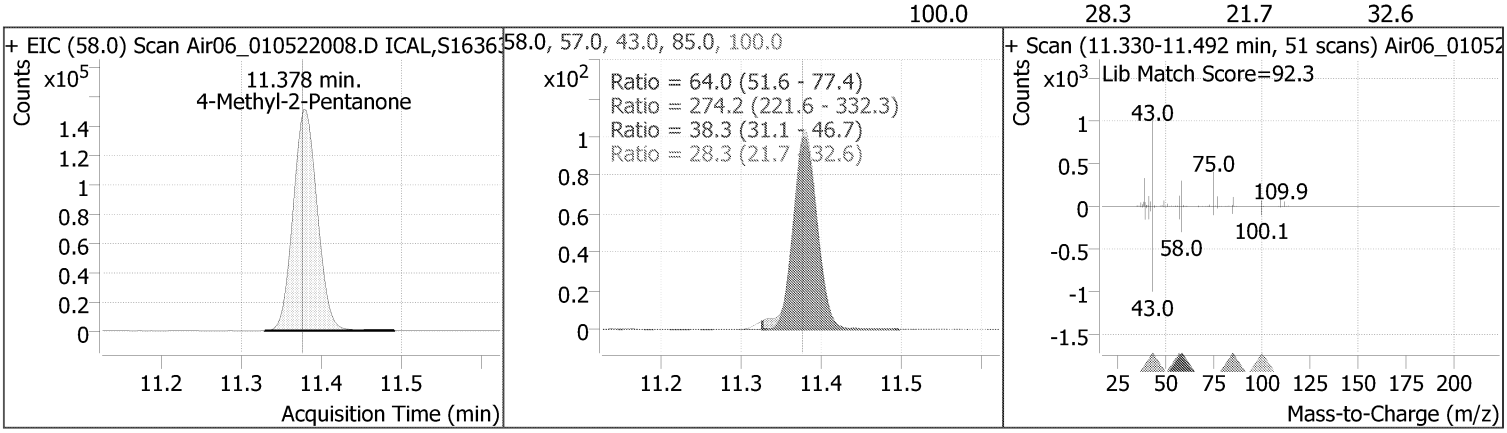

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 5.4118 | 10.83 | 0.00 | 288710 | 43.0 | 222.1 | 185.0 | 277.6 |
| | | | | | 57.0 | 112.7 | 92.9 | 139.3 |
| | | | | | 56.0 | 67.8 | 56.5 | 84.8 |
| | | | | | 70.0 | 45.3 | 36.5 | 54.8 |
| | | | | | 100.0 | 25.8 | 21.2 | 31.8 |



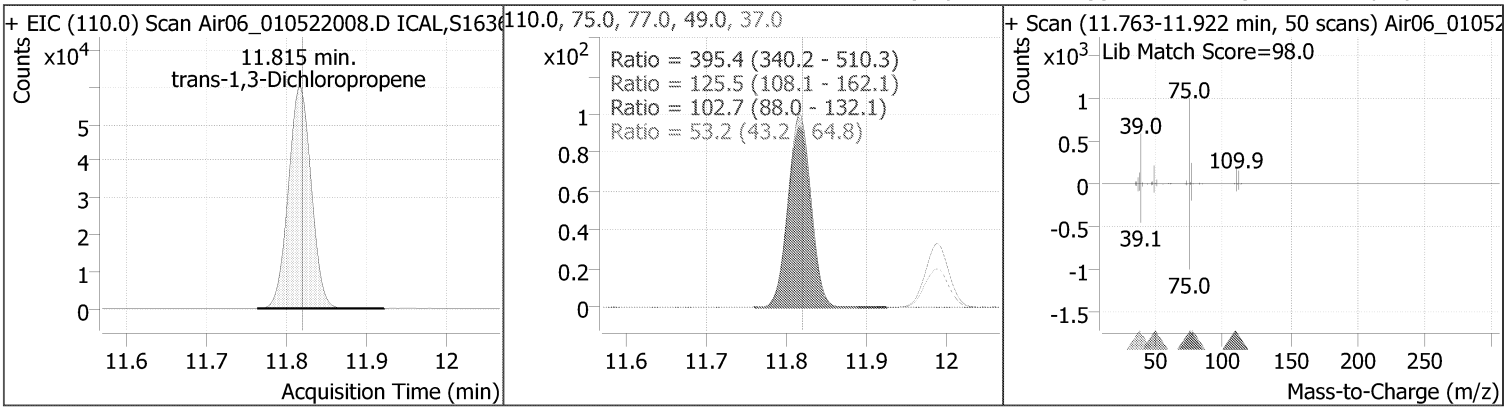

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 5.4523 | 11.34 | 0.00 | 116104 | 75.0 | 430.0 | 361.9 | 542.9 |
| | | | | | 39.0 | 279.0 | 296.4 | 444.6 |
| | | | | | 77.0 | 136.7 | 115.0 | 172.4 |



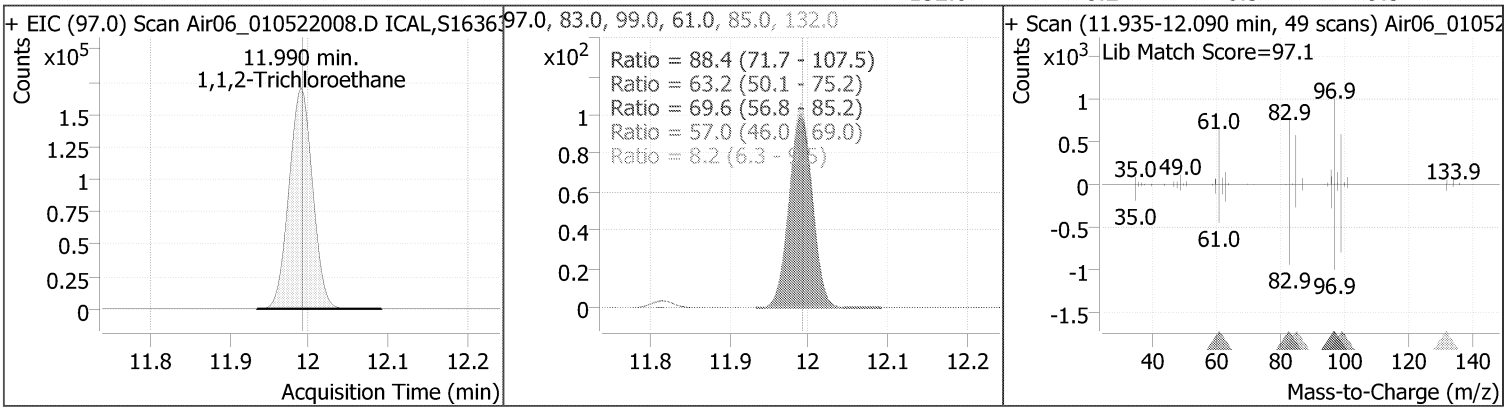
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 5.3430 | 11.38 | 0.00 | 317463 | 43.0 | 274.2 | 221.6 | 332.3 |
| | | | | | 57.0 | 64.0 | 51.6 | 77.4 |
| | | | | | 85.0 | 38.3 | 31.1 | 46.7 |
| | | | | | 100.0 | 28.3 | 21.7 | 32.6 |



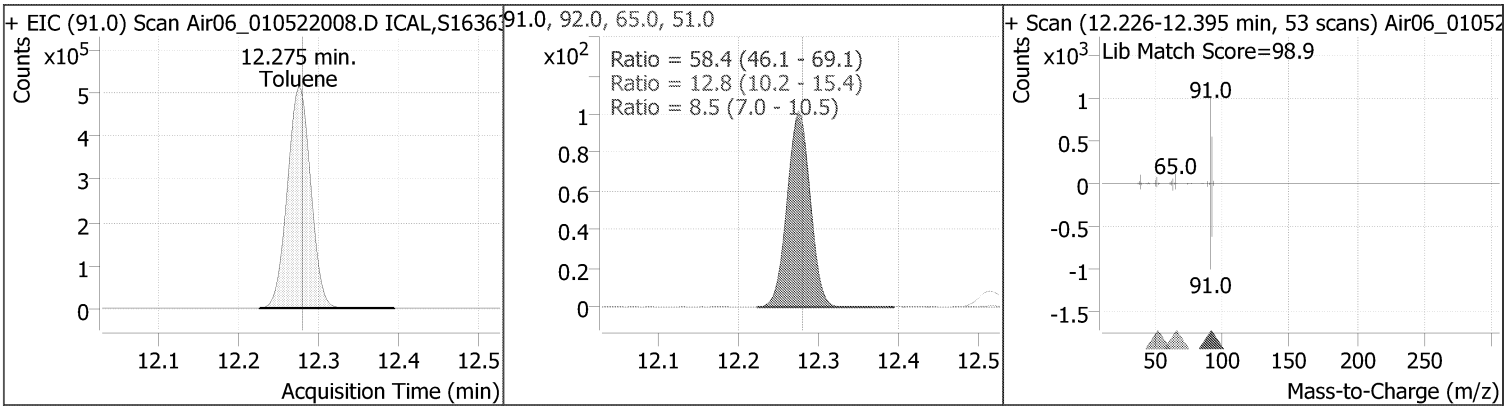

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 5.5555 | 11.82 | 0.00 | 120637 | 75.0 | 395.4 | 340.2 | 510.3 |
| | | | | | 77.0 | 125.5 | 108.1 | 162.1 |
| | | | | | 49.0 | 102.7 | 88.0 | 132.1 |
| | | | | | 37.0 | 53.2 | 43.2 | 64.8 |



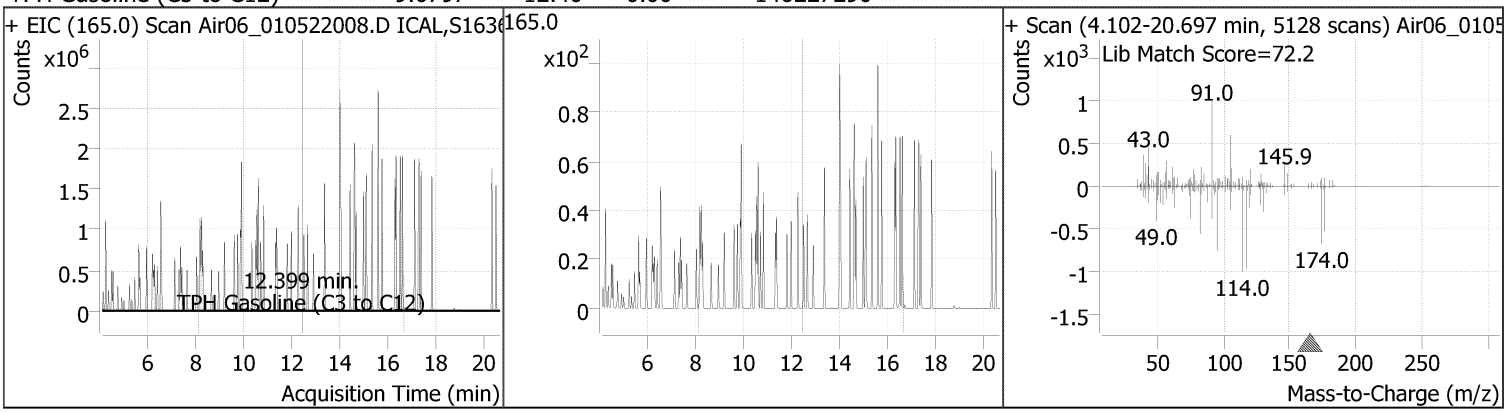

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 5.4700 | 11.99 | 0.00 | 350299 | 83.0 | 88.4 | 71.7 | 107.5 |
| | | | | | 61.0 | 69.6 | 56.8 | 85.2 |
| | | | | | 99.0 | 63.2 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.0 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.2 | 6.3 | 9.5 |



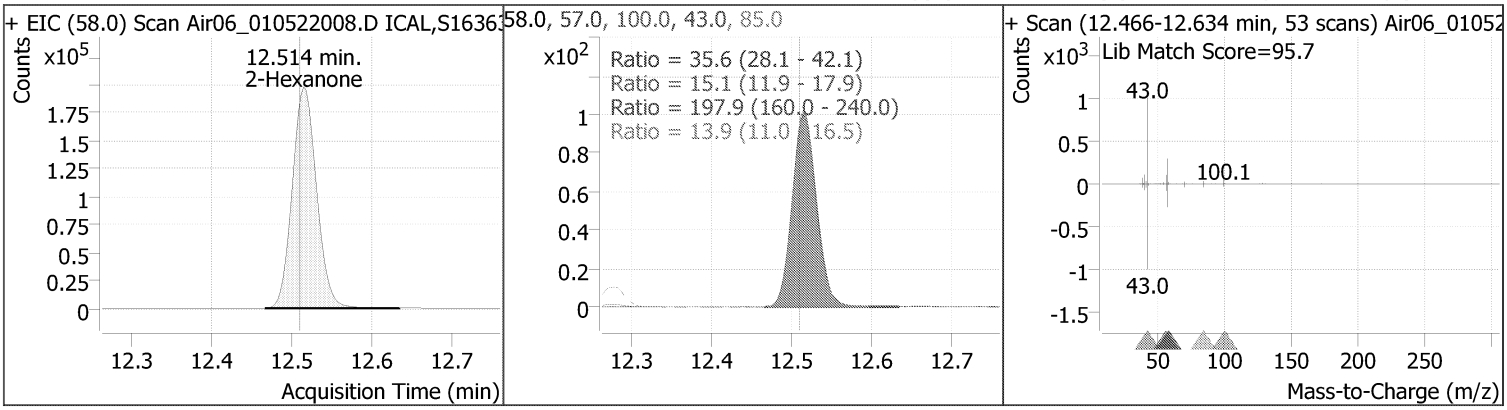
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 5.3254 | 12.27 | 0.00 | 1051576 | 92.0 | 58.4 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.8 | 10.2 | 15.4 |
| | | | | | 51.0 | 8.5 | 7.0 | 10.5 |



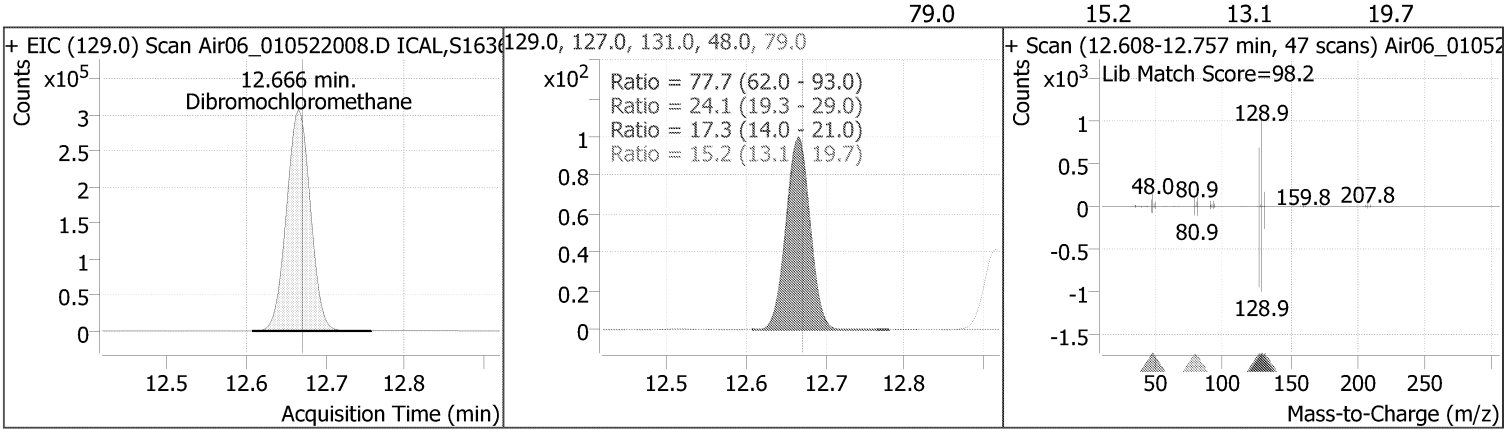

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 9.6797 | 12.40 | 0.00 | 146227290 | | | | |



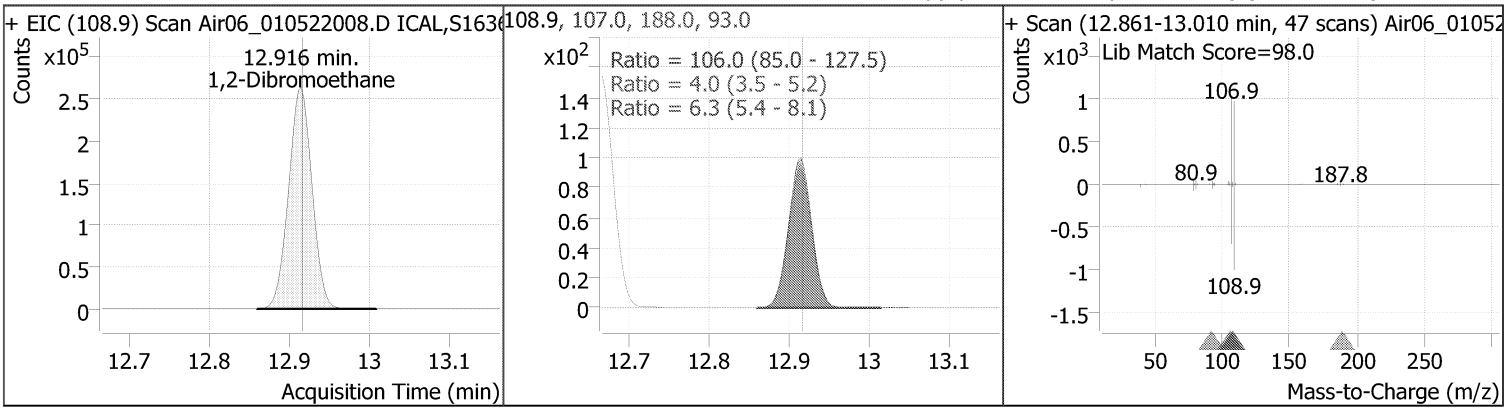

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 5.6203 | 12.51 | 0.00 | 420021 | 43.0 | 197.9 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.6 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.1 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.9 | 11.0 | 16.5 |



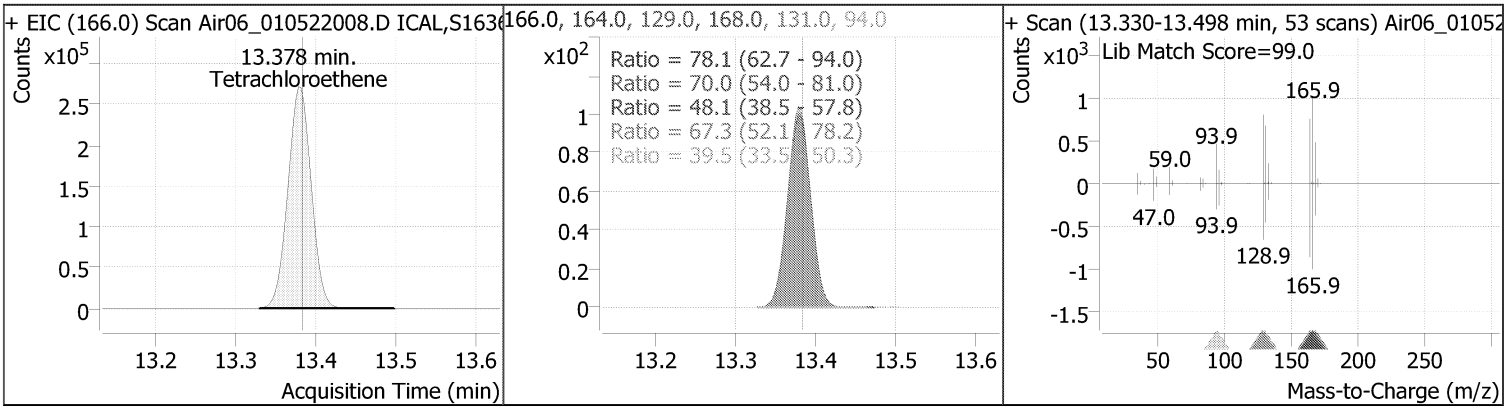
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 5.5317 | 12.67 | 0.00 | 642481 | 127.0 | 77.7 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.1 | 19.3 | 29.0 |
| | | | | | 48.0 | 17.3 | 14.0 | 21.0 |
| | | | | | 79.0 | 15.2 | 13.1 | 19.7 |



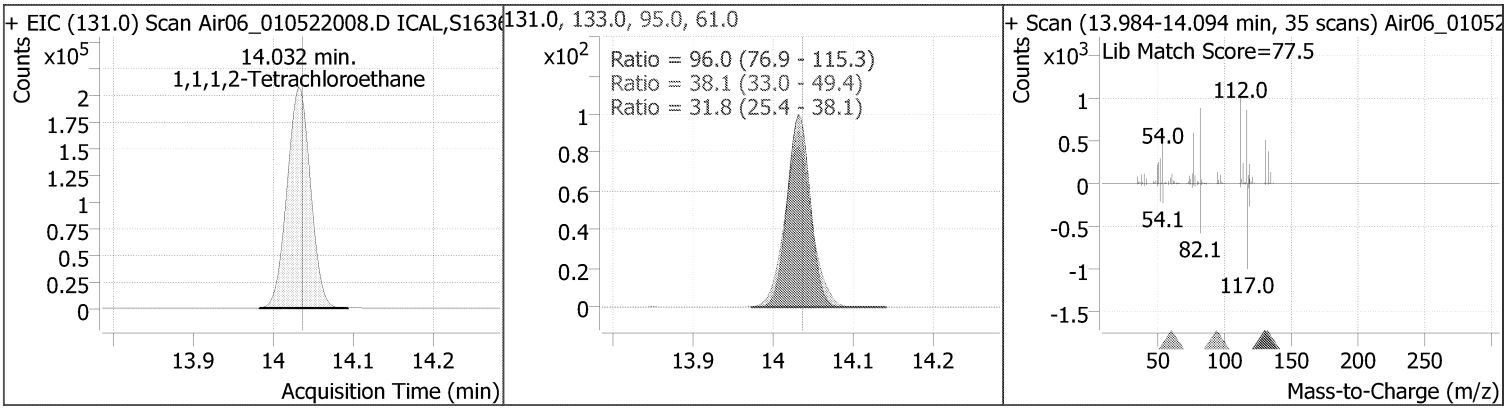

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 5.4565 | 12.92 | 0.00 | 539138 | 107.0 | 106.0 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.3 | 5.4 | 8.1 |
| | | | | | 188.0 | 4.0 | 3.5 | 5.2 |



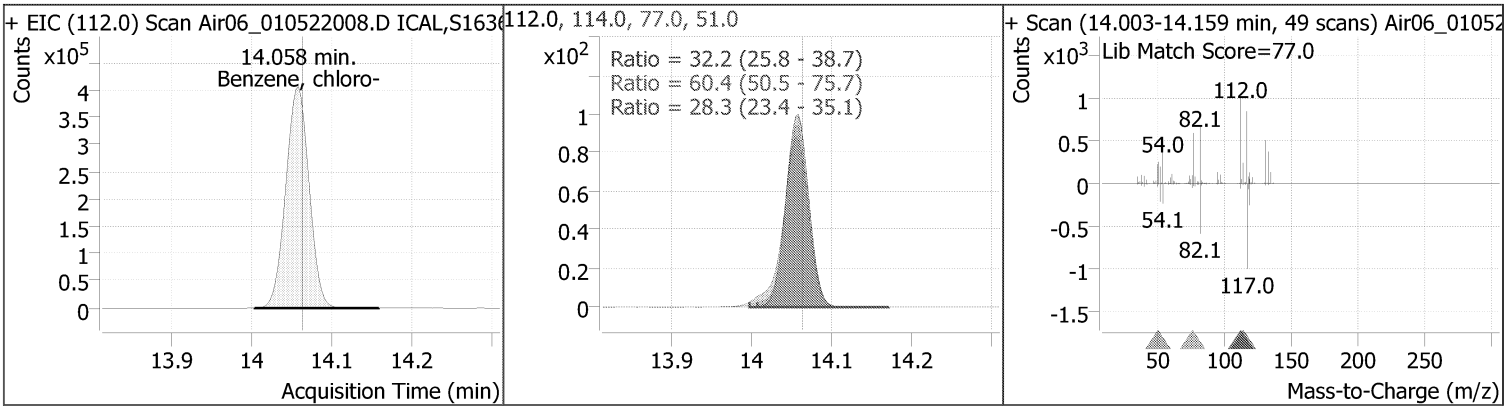

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 5.4383 | 13.38 | 0.00 | 552062 | 164.0 | 78.1 | 62.7 | 94.0 |
| | | | | | 129.0 | 70.0 | 54.0 | 81.0 |
| | | | | | 131.0 | 67.3 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.1 | 38.5 | 57.8 |
| | | | | | 94.0 | 39.5 | 33.5 | 50.3 |



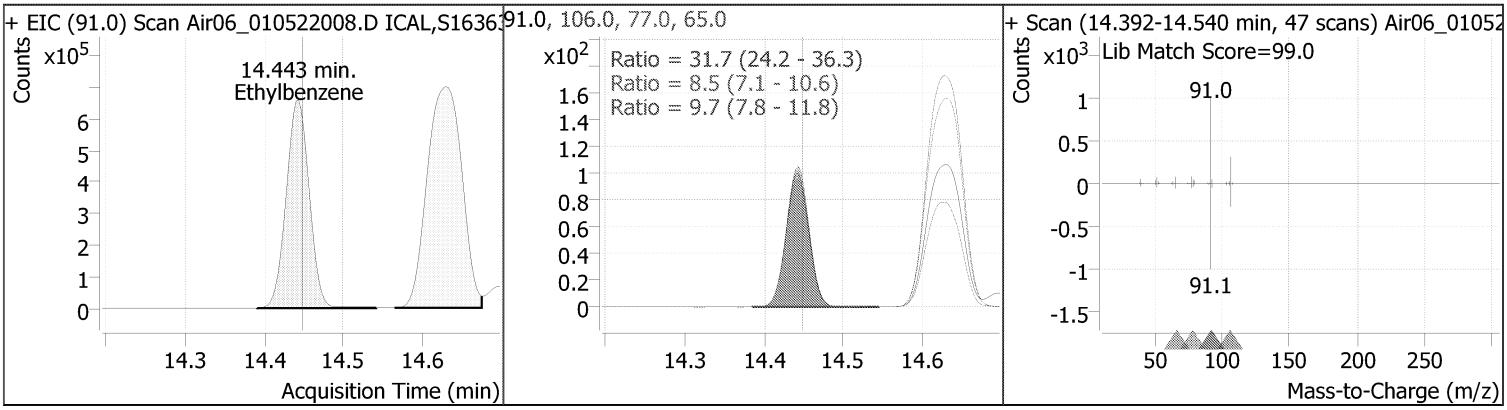
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.4491 | 14.03 | 0.00 | 423373 | 133.0 | 96.0 | 76.9 | 115.3 |
| | | | | | 95.0 | 38.1 | 33.0 | 49.4 |
| | | | | | 61.0 | 31.8 | 25.4 | 38.1 |



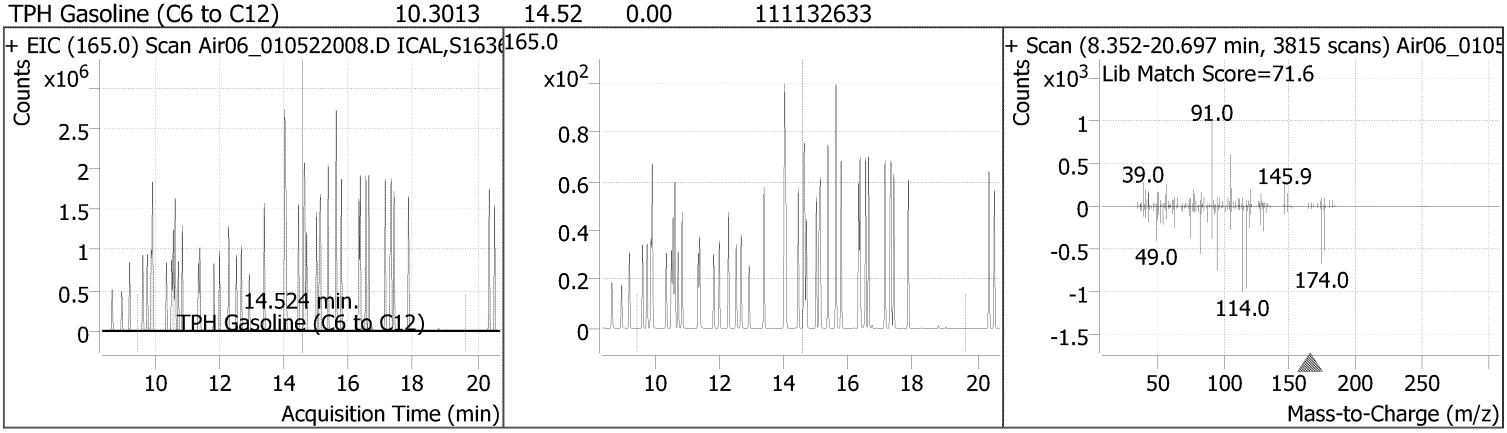

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 5.3107 | 14.06 | 0.00 | 826077 | 77.0 | 60.4 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.2 | 25.8 | 38.7 |
| | | | | | 51.0 | 28.3 | 23.4 | 35.1 |



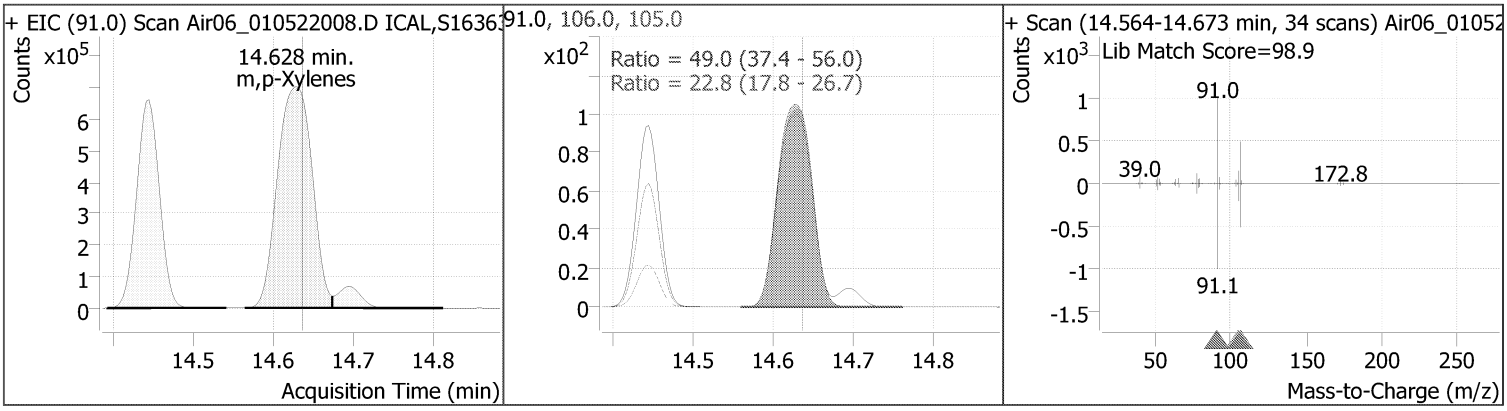

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 5.3484 | 14.44 | 0.00 | 1318741 | 106.0 | 31.7 | 24.2 | 36.3 |
| | | | | | 65.0 | 9.7 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.5 | 7.1 | 10.6 |



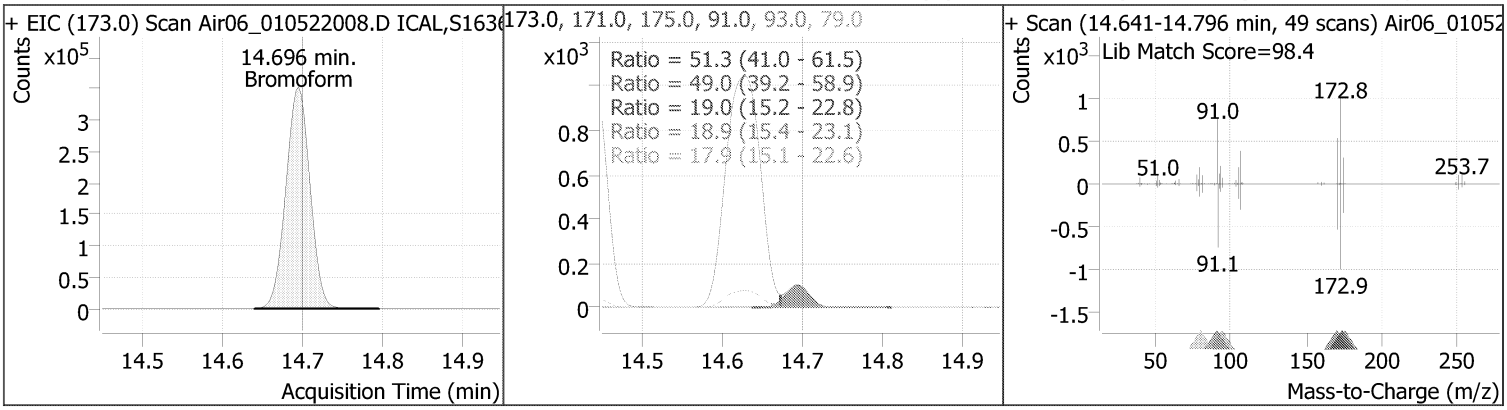
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 10.3013 | 14.52 | 0.00 | 111132633 | | | | |



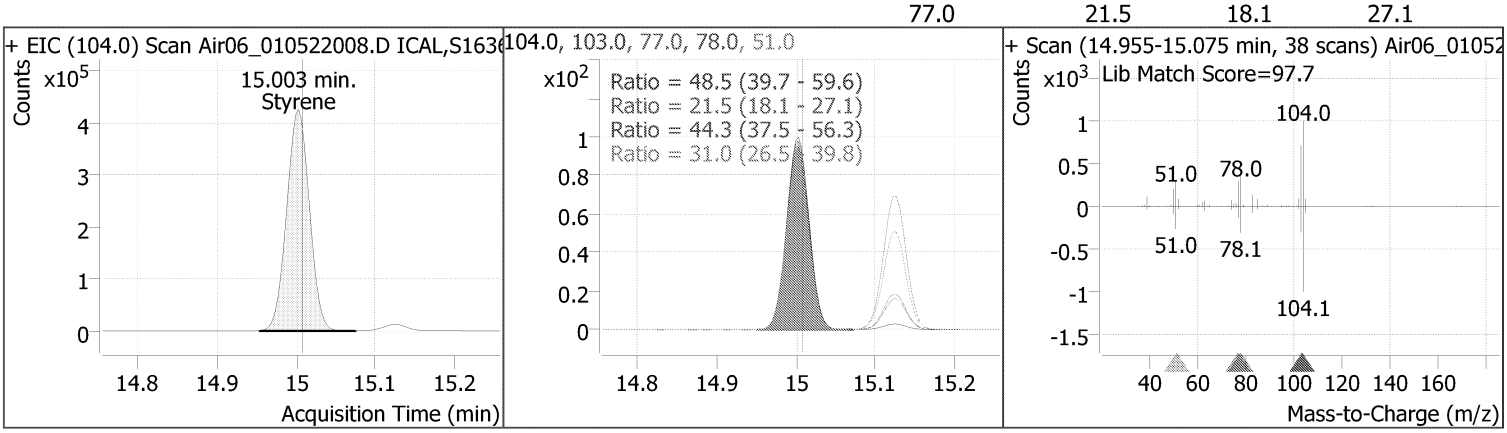

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 10.6515 | 14.63 | -0.01 | 2126165 | 106.0 | 49.0 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.8 | 17.8 | 26.7 |



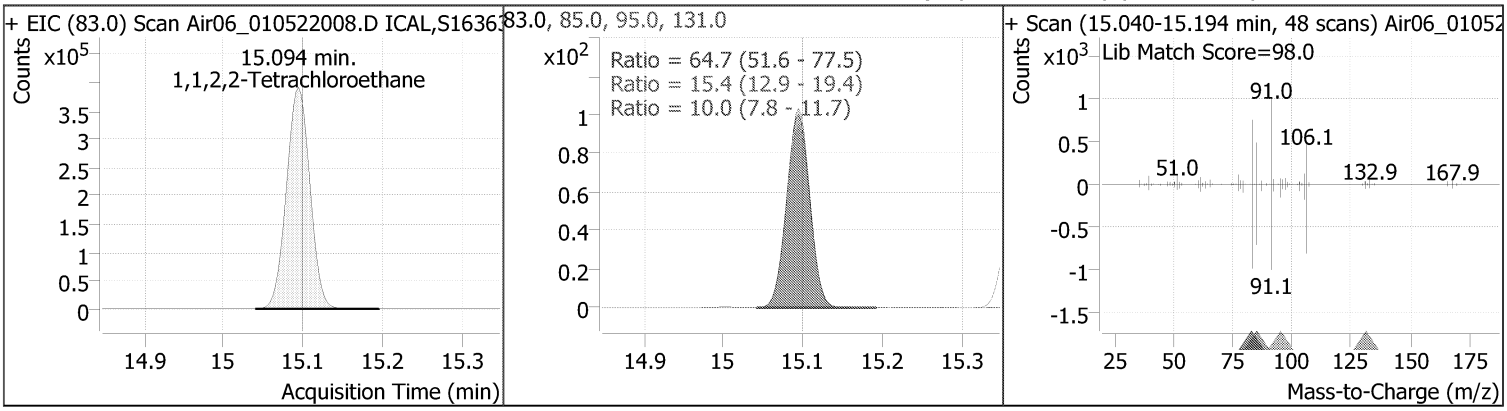

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 5.5347 | 14.70 | 0.00 | 740853 | 171.0 | 51.3 | 41.0 | 61.5 |
| | | | | | 175.0 | 49.0 | 39.2 | 58.9 |
| | | | | | 93.0 | 18.9 | 15.4 | 23.1 |
| | | | | | 91.0 | 19.0 | 15.2 | 22.8 |
| | | | | | 79.0 | 17.9 | 15.1 | 22.6 |



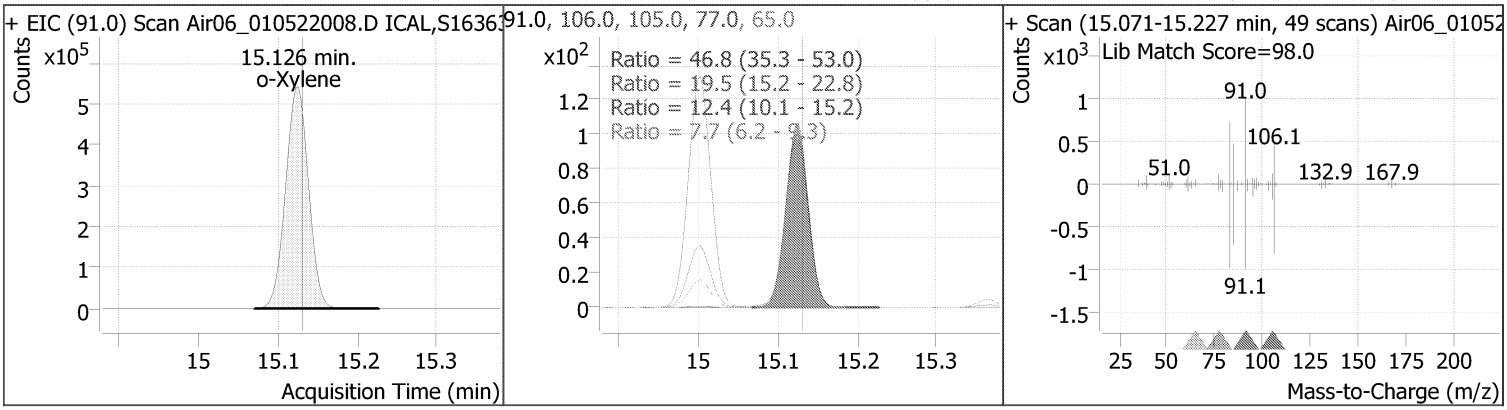
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 5.3689 | 15.00 | 0.00 | 840801 | 103.0 | 48.5 | 39.7 | 59.6 |
| | | | | | 78.0 | 44.3 | 37.5 | 56.3 |
| | | | | | 51.0 | 31.0 | 26.5 | 39.8 |
| | | | | | 77.0 | 21.5 | 18.1 | 27.1 |



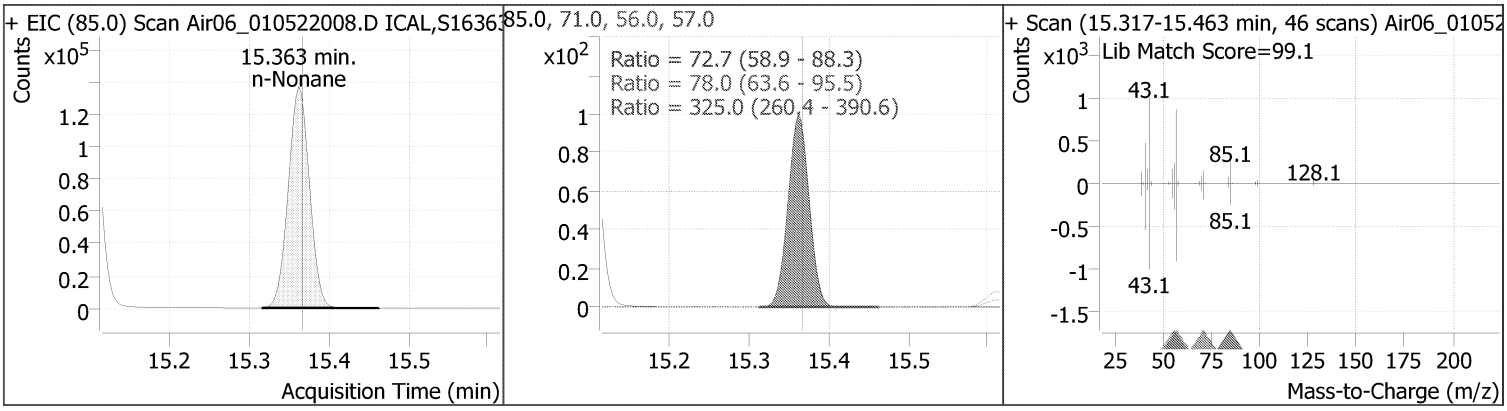

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 5.3792 | 15.09 | 0.00 | 802823 | 85.0 | 64.7 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.4 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.0 | 7.8 | 11.7 |



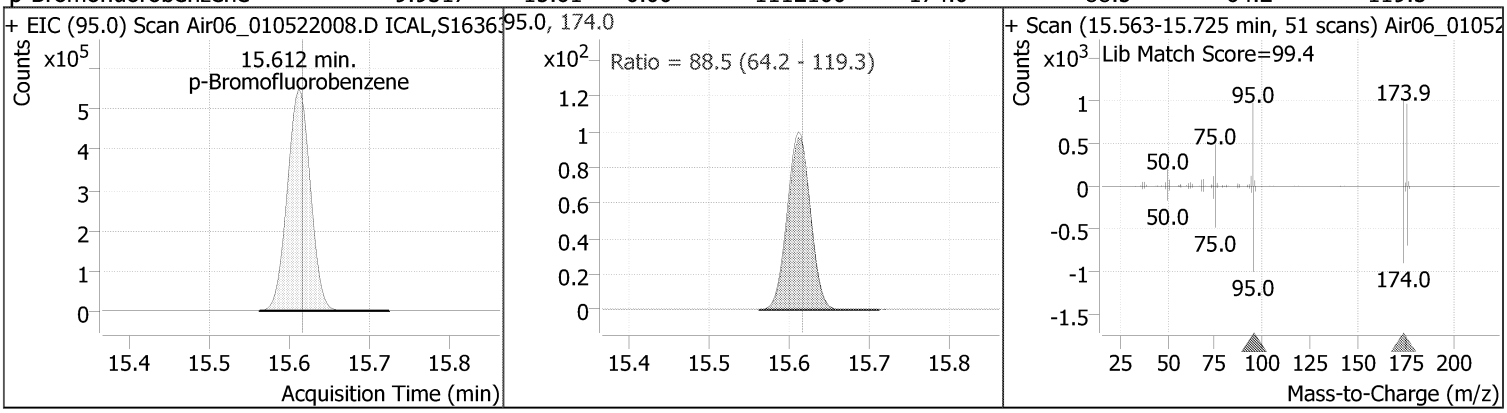

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 5.2954 | 15.13 | 0.00 | 1084931 | 106.0 | 46.8 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.5 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.4 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.7 | 6.2 | 9.3 |



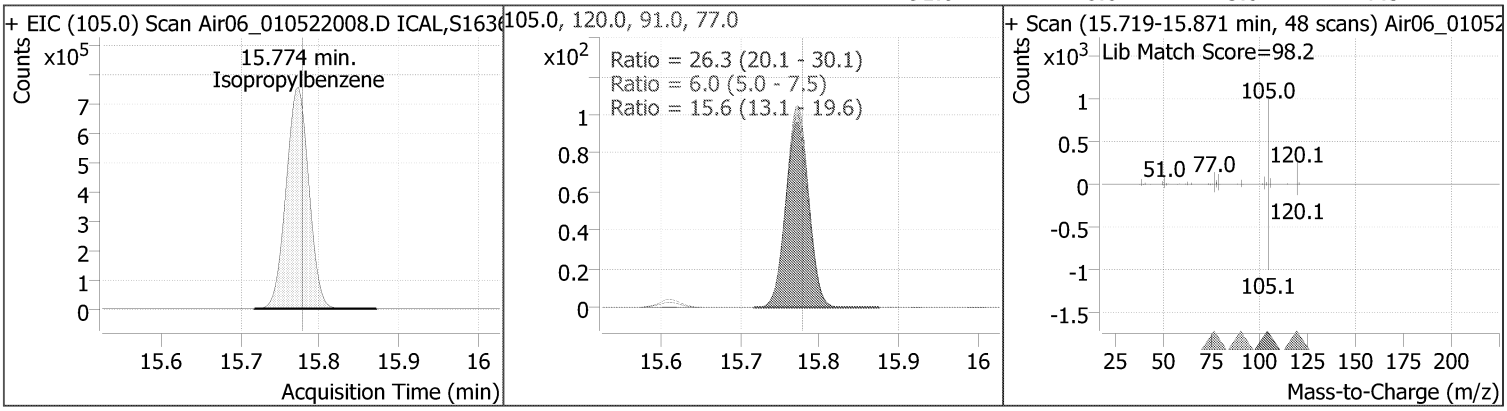
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 5.3501 | 15.36 | 0.00 | 251783 | 57.0 | 325.0 | 260.4 | 390.6 |
| | | | | | 56.0 | 78.0 | 63.6 | 95.5 |
| | | | | | 71.0 | 72.7 | 58.9 | 88.3 |



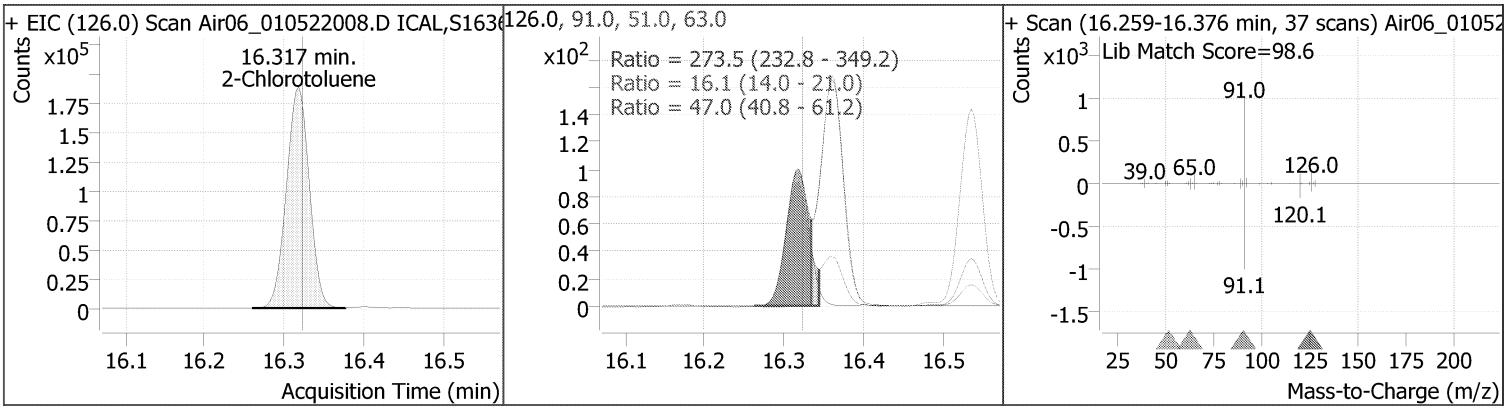

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 9.9317 | 15.61 | 0.00 | 1112100 | 174.0 | 88.5 | 64.2 | 119.3 |



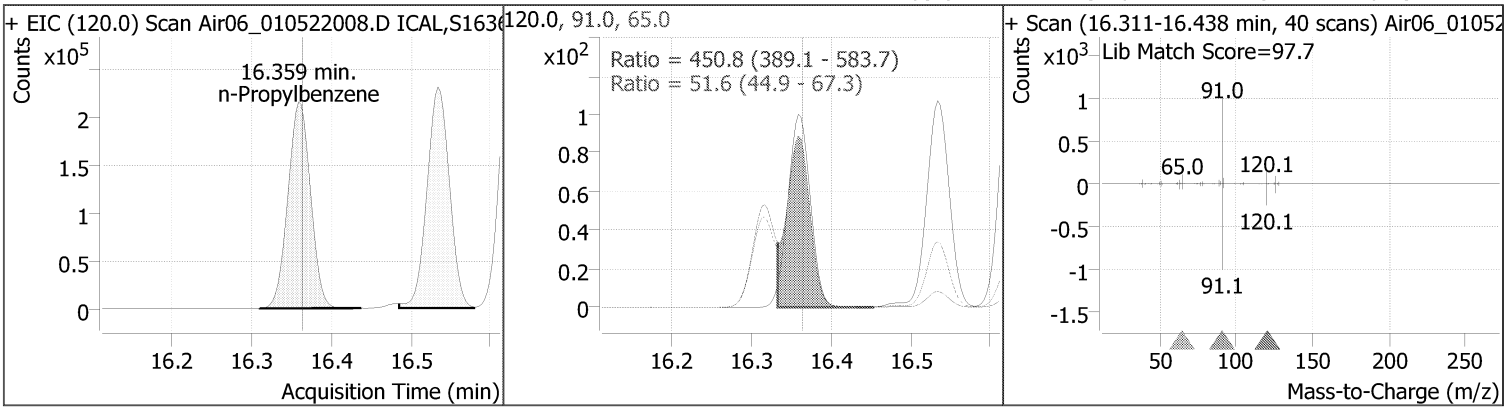

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 5.3462 | 15.77 | 0.00 | 1498990 | 120.0 | 26.3 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.6 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.0 | 5.0 | 7.5 |



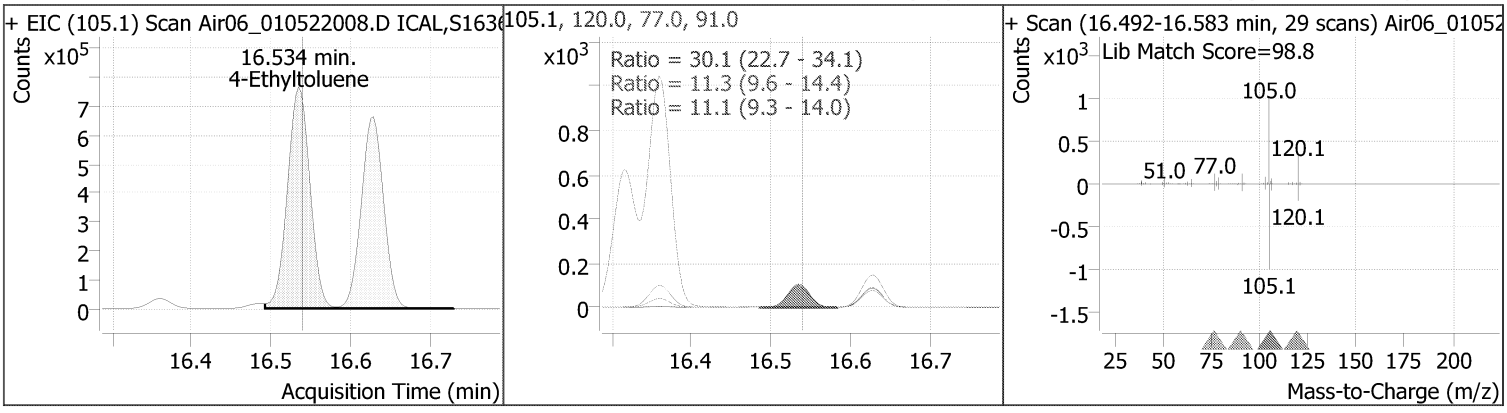
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 5.3325 | 16.32 | 0.00 | 378871 | 91.0 | 273.5 | 232.8 | 349.2 |
| | | | | | 63.0 | 47.0 | 40.8 | 61.2 |
| | | | | | 51.0 | 16.1 | 14.0 | 21.0 |



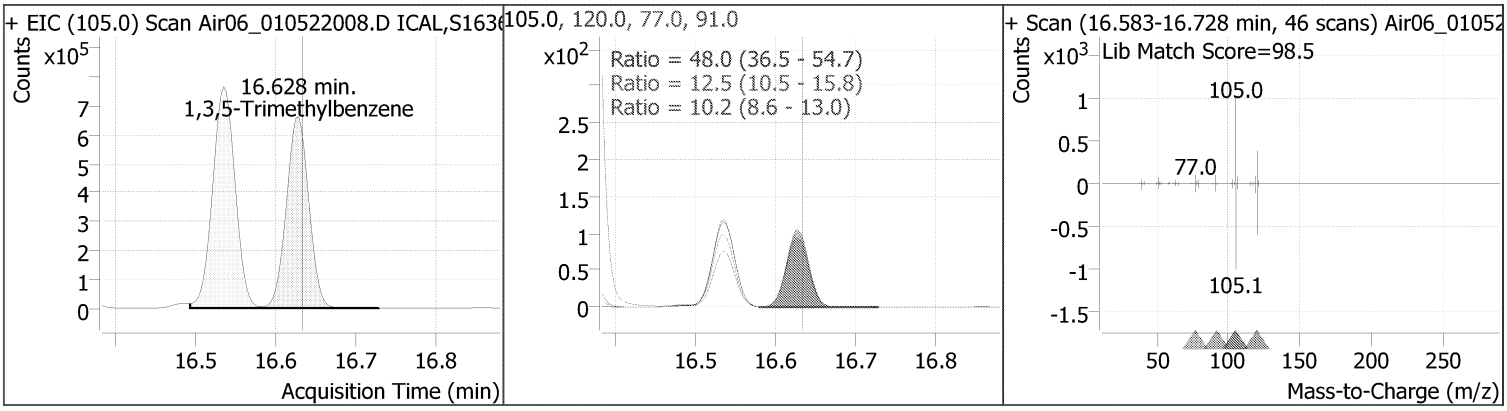

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 5.4151 | 16.36 | 0.00 | 422974 | 91.0 | 450.8 | 389.1 | 583.7 |
| | | | | | 65.0 | 51.6 | 44.9 | 67.3 |



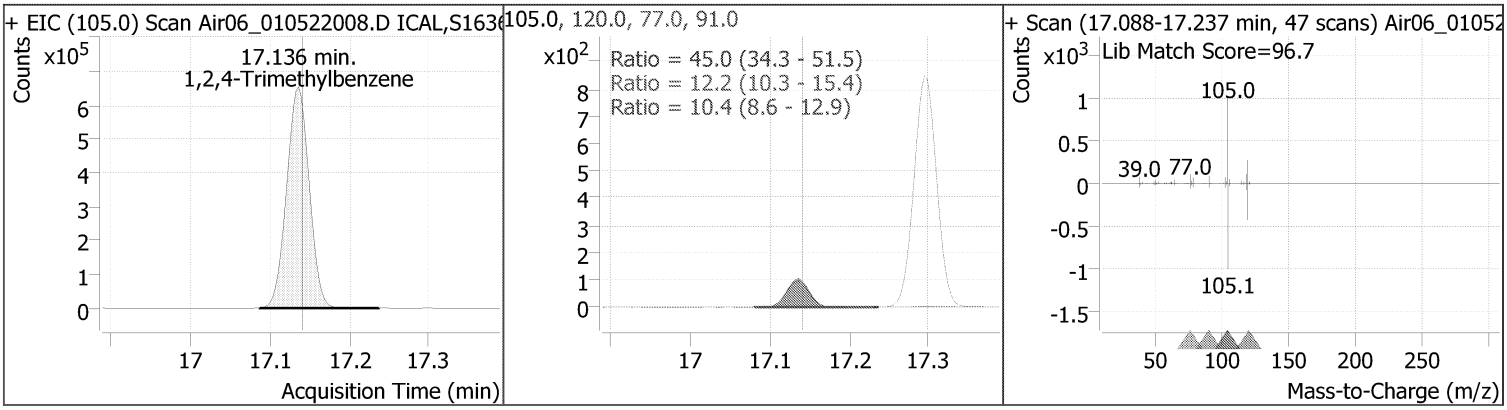

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 5.4483 | 16.53 | 0.00 | 1503702 | 120.0 | 30.1 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.3 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.1 | 9.3 | 14.0 |



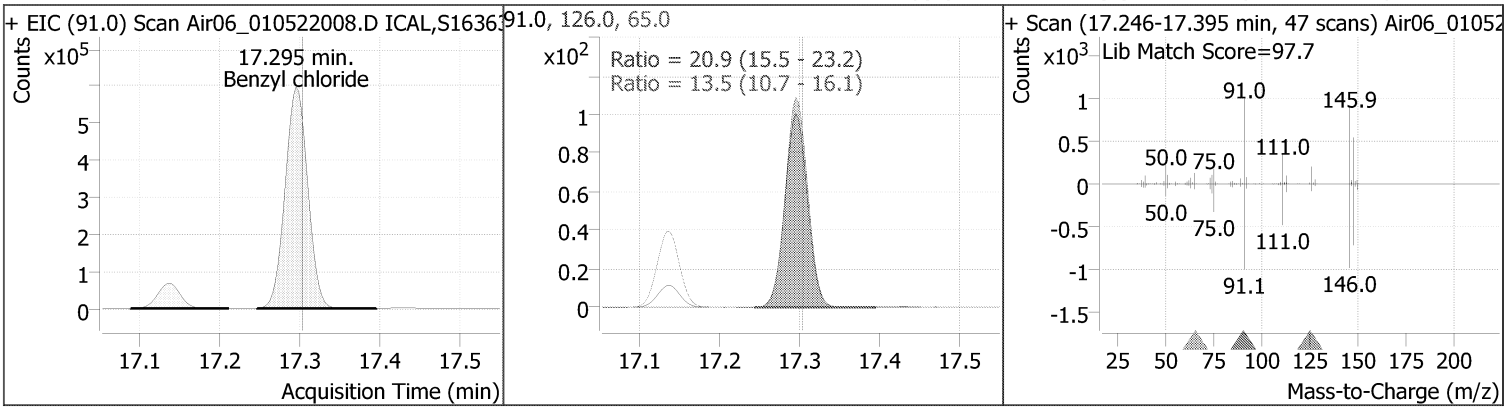
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 5.4225 | 16.63 | 0.00 | 1297561 | 120.0 | 48.0 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.5 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.2 | 8.6 | 13.0 |



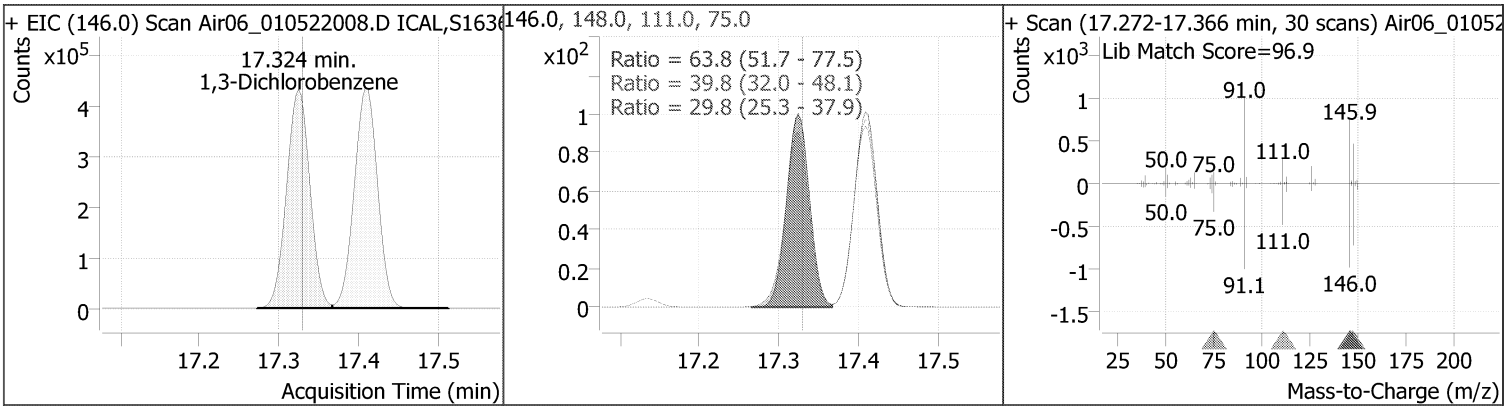

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 5.4603 | 17.14 | 0.00 | 1289322 | 120.0 | 45.0 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.2 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.4 | 8.6 | 12.9 |



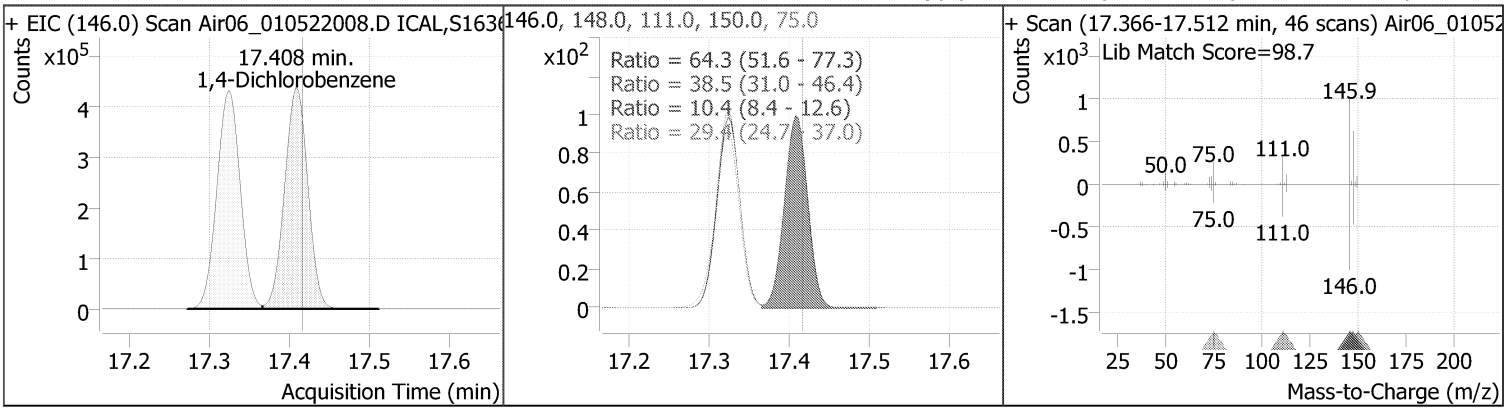

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 5.9294 | 17.29 | -0.01 | 1180425 | 126.0 | 20.9 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.5 | 10.7 | 16.1 |



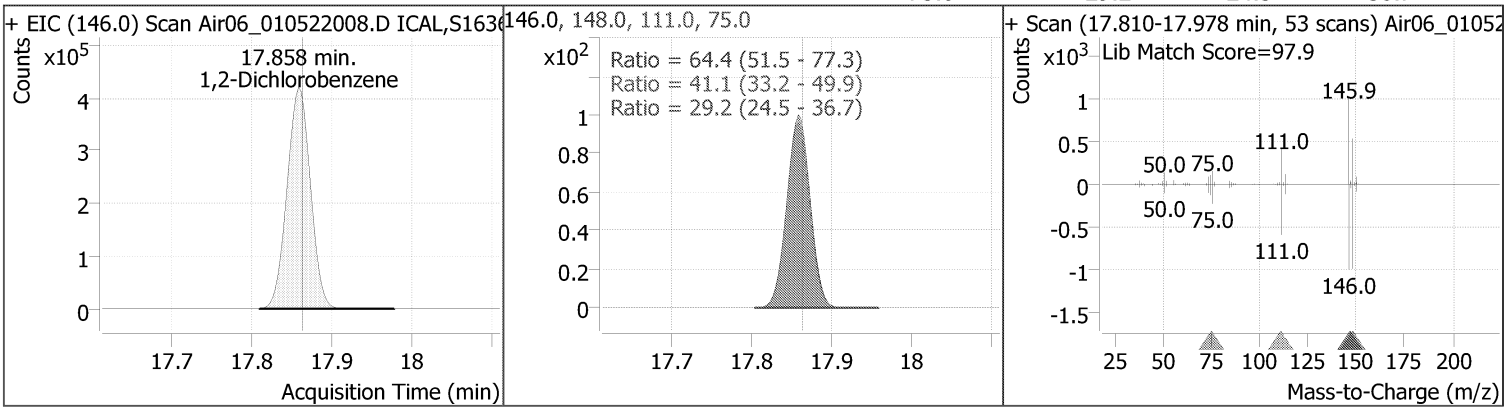
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 5.4555 | 17.32 | 0.00 | 885973 | 148.0 | 63.8 | 51.7 | 77.5 |
| | | | | | 111.0 | 39.8 | 32.0 | 48.1 |
| | | | | | 75.0 | 29.8 | 25.3 | 37.9 |



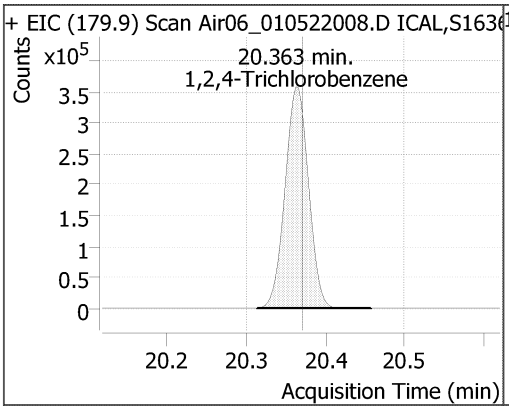

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 5.4399 | 17.41 | -0.01 | 891354 | 148.0 | 64.3 | 51.6 | 77.3 |
| | | | | | 111.0 | 38.5 | 31.0 | 46.4 |
| | | | | | 75.0 | 29.4 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.4 | 8.4 | 12.6 |

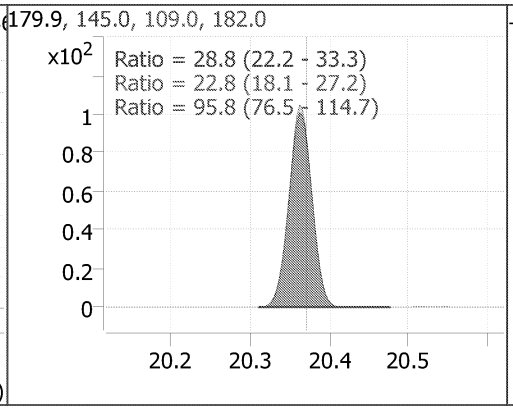


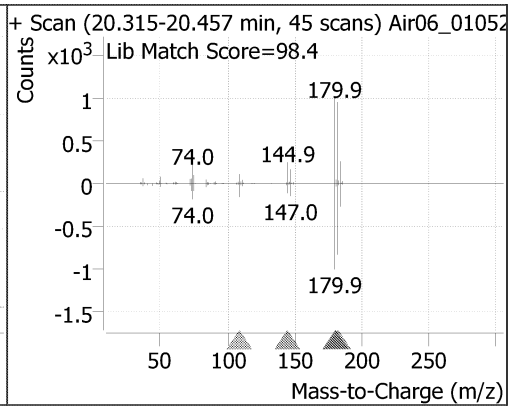

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 5.4412 | 17.86 | 0.00 | 856299 | 148.0 | 64.4 | 51.5 | 77.3 |
| | | | | | 111.0 | 41.1 | 33.2 | 49.9 |
| | | | | | 75.0 | 29.2 | 24.5 | 36.7 |



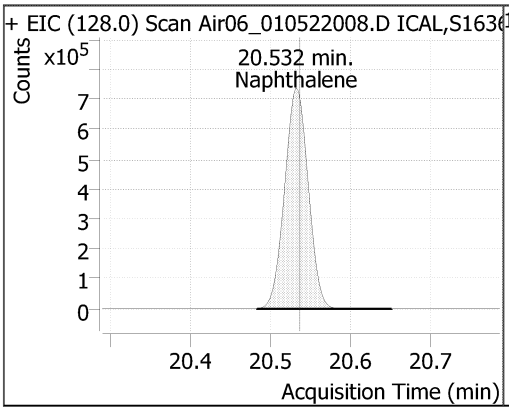
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 6.0420 | 20.36 | -0.01 | 733546 | 182.0 | 95.8 | 76.5 | 114.7 |
| | | | | | 145.0 | 28.8 | 22.2 | 33.3 |
| | | | | | 109.0 | 22.8 | 18.1 | 27.2 |

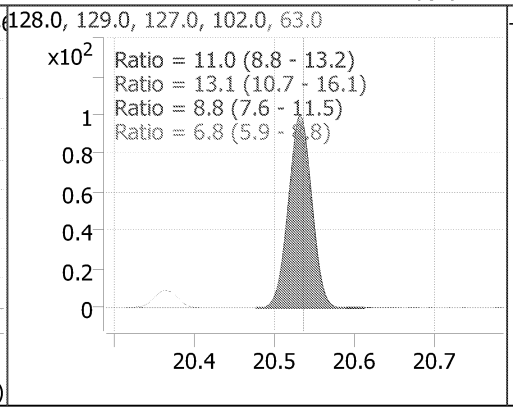


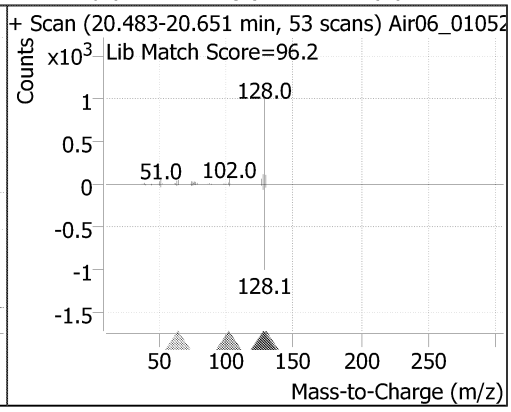



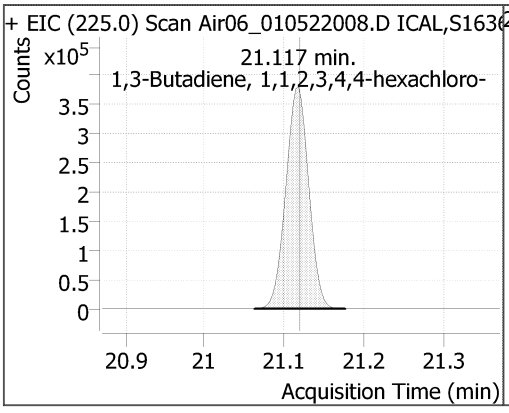

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 5.9990 | 20.53 | -0.01 | 1518517 | 127.0 | 13.1 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.8 | 7.6 | 11.5 |
| | | | | | 63.0 | 6.8 | 5.9 | 8.8 |

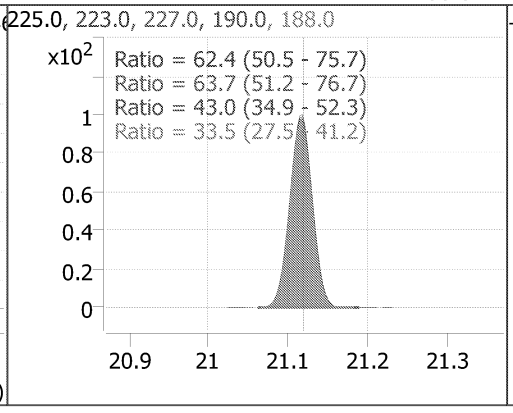


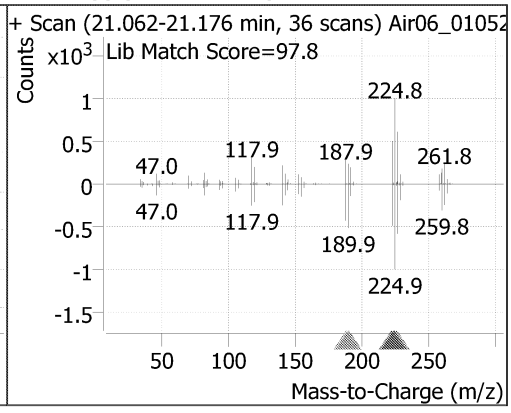




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 5.4589 | 21.12 | 0.00 | 758297 | 227.0 | 63.7 | 51.2 | 76.7 |
| | | | | | 223.0 | 62.4 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.0 | 34.9 | 52.3 |
| | | | | | 188.0 | 33.5 | 27.5 | 41.2 |

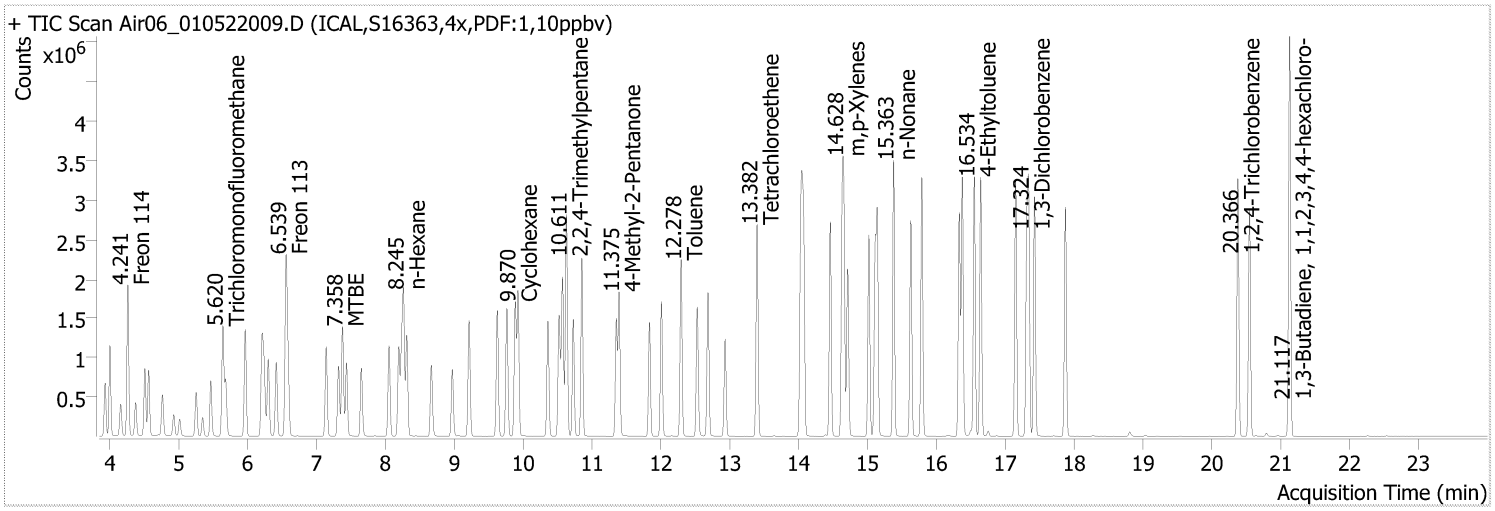


# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522009.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 8:32:20 PM |
| Sample Name | ICAL,S16363,4x,PDF:1,10ppbv | Instrument | Air-MS-06 |
| Vial | 7 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 05 1236 TO15_220105.m.batch.bin | Last Calib Update | 1/5/2022 8:56:55 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



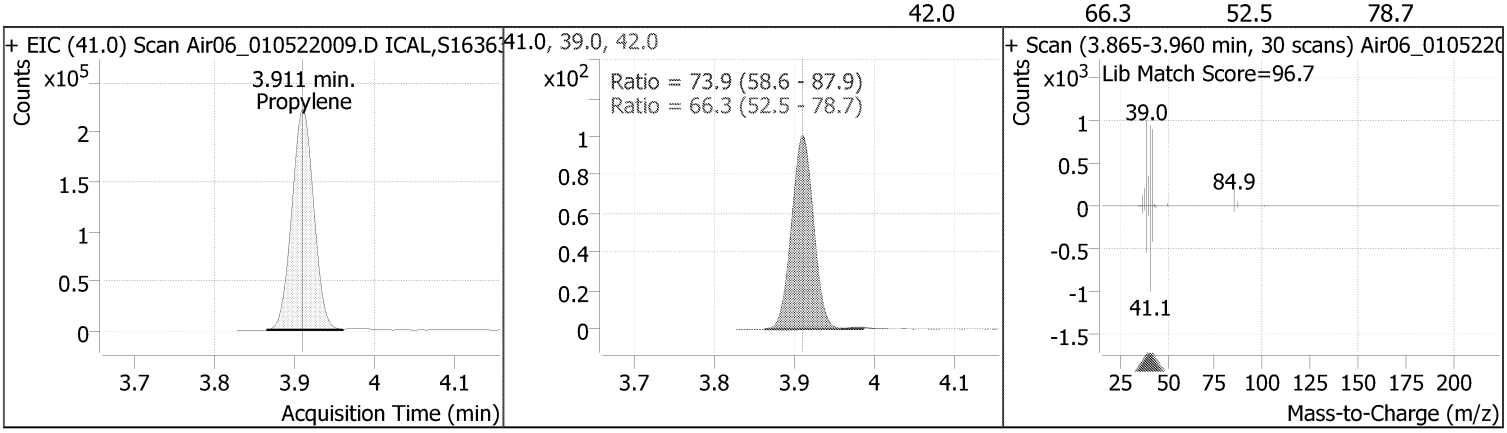

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 411194 | 10.0000 | nL/L | 0.000 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1551589 | 10.0000 | nL/L | 0.000 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 847291 | 10.0000 | nL/L | 0.000 |
| **System Monitoring Compounds** | | | | | | |
| S p-Bromofluorobenzene | 15.615 | 95.0 | 1113664 | 9.8147 | nL/L | 0.000 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 98.15% | | |
| **Target Compounds** | | | | | | QValue |
| T Propylene | 3.911 | 41.0 | 424940 | 10.1978 | nL/L | 99 |
| T Freon 12 | 3.979 | 85.0 | 1081005 | 9.6014 | nL/L | 99 |
| T Chloromethane | 4.134 | 50.0 | 498902 | 9.4318 | nL/L | 100 |
| T Freon 114 | 4.241 | 135.0 | 757841 | 9.5313 | nL/L | 97 |
| T Vinyl Chloride | 4.355 | 62.0 | 498393 | 9.4114 | nL/L | 99 |
| T 1,3-Butadiene | 4.487 | 54.0 | 434021 | 9.6096 | nL/L | 97 |
| T Butane | 4.542 | 43.0 | 829744 | 9.3898 | nL/L | 98 |
| T Bromomethane | 4.743 | 96.0 | 372719 | 9.5779 | nL/L | 98 |
| T Chloroethane | 4.908 | 64.0 | 247865 | 9.5094 | nL/L | 99 |
| T Ethanol | 4.992 | 45.0 | 261006 | 10.0149 | nL/L | 99 |
| T Vinyl bromide | 5.232 | 108.0 | 433540 | 9.4919 | nL/L | 99 |
| T Acrolein | 5.326 | 56.0 | 219936 | 9.6198 | nL/L | 99 |
| T Acetone | 5.445 | 58.0 | 264611 | 9.7817 | nL/L | 99 |
| T Trichloromonofluoromethane | 5.620 | 101.0 | 1261511 | 9.4447 | nL/L | 100 |
| T Isopropanol (IPA) | 5.662 | 45.0 | 991508 | 10.3615 | nL/L | 99 |
| T n-Pentane | 5.947 | 43.0 | 1019381 | 9.3574 | nL/L | 100 |
| T 1,1-Dichloroethene | 6.190 | 61.0 | 937092 | 9.4489 | nL/L | 98 |
| T Tert-butyl alcohol (TBA) | 6.219 | 59.0 | 1086867 | 9.7197 | nL/L | 96 |
| T Methylene Chloride | 6.280 | 84.0 | 425746 | 8.7600 | nL/L | 97 |
| T 3-Chloropropene | 6.397 | 76.0 | 208232 | 9.4465 | nL/L | 100 |
| T Freon 113 | 6.539 | 101.0 | 999717 | 9.3158 | nL/L | 99 |
| T Carbon Disulfide | 6.568 | 76.0 | 1297550 | 9.3482 | nL/L | 100 |

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 777088 | 9.3921 | nL/L | 99 |
| T 1,1-Dichloroethane | 7.300 | 63.0 | 958140 | 9.4371 | nL/L | 100 |
| T MTBE | 7.358 | 73.0 | 1272603 | 9.4490 | nL/L | 99 |
| T Vinyl Acetate | 7.417 | 43.0 | 1532519 | 8.4389 | nL/L | 100 |
| T 2-Butanone | 7.630 | 43.0 | 1233679 | 9.3823 | nL/L | 96 |
| T cis-1,2-Dichloroethene | 8.035 | 61.0 | 785532 | 9.3872 | nL/L | 98 |
| T Ethyl Acetate | 8.216 | 61.0 | 194235 | 9.4687 | nL/L | 94 |
| T n-Hexane | 8.245 | 57.0 | 886307 | 9.3514 | nL/L | 99 |
| T Chloroform | 8.290 | 83.0 | 1011146 | 9.4493 | nL/L | 99 |
| T Tetrahydrofuran | 8.650 | 72.0 | 221934 | 9.4486 | nL/L | 95 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 734712 | 9.3956 | nL/L | 100 |
| T 1,1,1-Trichloroethane | 9.197 | 97.0 | 979841 | 9.4921 | nL/L | 98 |
| T Benzene | 9.608 | 78.0 | 1439917 | 9.3357 | nL/L | 98 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 1052704 | 9.5590 | nL/L | 99 |
| T Cyclohexane | 9.870 | 84.0 | 592356 | 9.1711 | nL/L | 99 |
| T 1,2-Dichloropropane | 10.342 | 63.0 | 638513 | 9.6371 | nL/L | 98 |
| T Methane, bromodichloro- | 10.504 | 83.0 | 1041172 | 9.5805 | nL/L | 99 |
| T 1,4-Dioxane | 10.533 | 88.0 | 328784 | 9.4481 | nL/L | 99 |
| T Trichloroethene | 10.556 | 132.0 | 640960 | 9.4280 | nL/L | 97 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 2838434 | 9.2766 | nL/L | 100 |
| T Methyl methacrylate | 10.711 | 69.0 | 545510 | 9.7045 | nL/L | 99 |
| T n-Heptane | 10.834 | 71.0 | 498520 | 9.5102 | nL/L | 96 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 202668 | 9.6576 | nL/L | 93 |
| T 4-Methyl-2-Pentanone | 11.375 | 58.0 | 552675 | 9.4734 | nL/L | 98 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 210663 | 9.8138 | nL/L | 90 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 612466 | 9.6972 | nL/L | 98 |
| T Toluene | 12.278 | 91.0 | 1815680 | 9.3817 | nL/L | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 252693931 | 16.9481 | nL/L | 100 |
| T 2-Hexanone | 12.511 | 58.0 | 738598 | 9.9672 | nL/L | 98 |
| T Dibromochloromethane | 12.666 | 129.0 | 1117512 | 9.7462 | nL/L | 100 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 938054 | 9.6377 | nL/L | 100 |
| T Tetrachloroethene | 13.382 | 166.0 | 949199 | 9.5152 | nL/L | 98 |
| T 1,1,1,2-Tetrachloroethane | 14.036 | 131.0 | 731994 | 9.3781 | nL/L | 98 |
| T Benzene, chloro- | 14.058 | 112.0 | 1429447 | 9.1828 | nL/L | 97 |
| T Ethylbenzene | 14.443 | 91.0 | 2283988 | 9.2450 | nL/L | 98 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 192953673 | 17.9461 | nL/L | 100 |
| T m,p-Xylenes | 14.628 | 91.0 | 3662891 | 18.3408 | nL/L | 97 |
| T Bromoform | 14.696 | 173.0 | 1290463 | 9.5617 | nL/L | 99 |
| T Styrene | 15.003 | 104.0 | 1456070 | 9.2740 | nL/L | 97 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 1397521 | 9.3299 | nL/L | 99 |
| T o-Xylene | 15.126 | 91.0 | 1877697 | 9.1618 | nL/L | 98 |
| T n-Nonane | 15.363 | 85.0 | 435085 | 9.2297 | nL/L | 99 |
| T Isopropylbenzene | 15.774 | 105.0 | 2589335 | 9.2211 | nL/L | 98 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 658087 | 9.2443 | nL/L | 97 |
| T n-Propylbenzene | 16.363 | 120.0 | 718039 | 9.1854 | nL/L | 86 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 2608489 | 9.4032 | nL/L | 98 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 2237079 | 9.3171 | nL/L | 97 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 2246149 | 9.4546 | nL/L | 97 |
| T Benzyl chloride | 17.298 | 91.0 | 2109006 | 10.3440 | nL/L | 98 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 1535242 | 9.4051 | nL/L | 99 |
| T 1,4-Dichlorobenzene | 17.411 | 146.0 | 1549511 | 9.4077 | nL/L | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 1503691 | 9.4901 | nL/L | 99 |
| T 1,2,4-Trichlorobenzene | 20.366 | 179.9 | 1353906 | 10.7909 | nL/L | 99 |
| T Naphthalene | 20.535 | 128.0 | 2801576 | 10.7242 | nL/L | 99 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.117 | 225.0 | 1334297 | 9.5323 | nL/L | 99 |

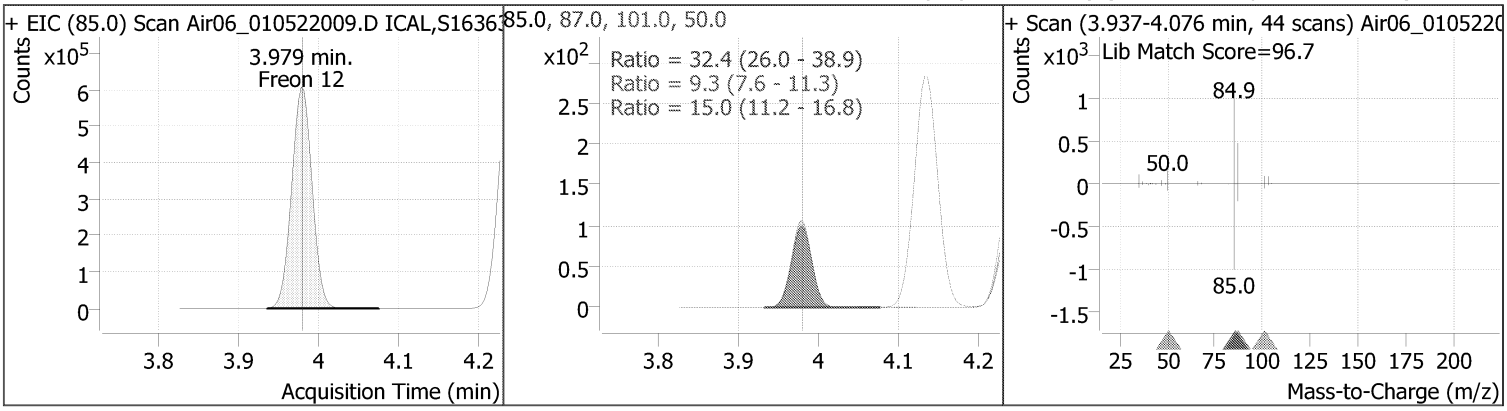
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

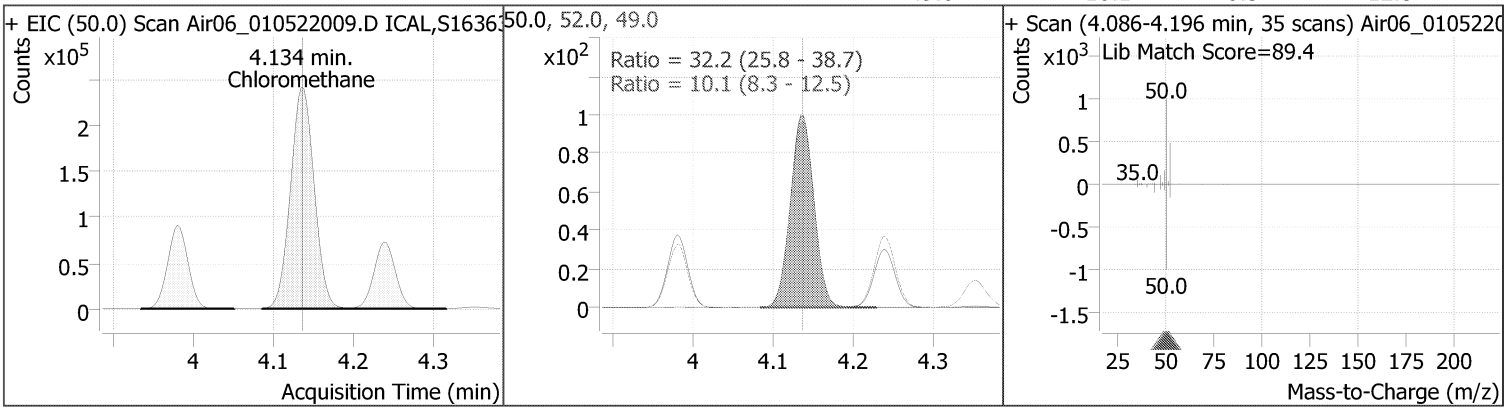
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 10.1978 | 3.91 | 0.00 | 424940 | 39.0 | 73.9 | 58.6 | 87.9 |
| | | | | | 42.0 | 66.3 | 52.5 | 78.7 |



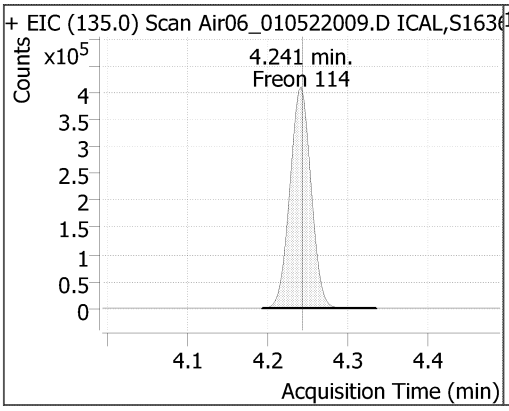

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 9.6014 | 3.98 | 0.00 | 1081005 | 87.0 | 32.4 | 26.0 | 38.9 |
| | | | | | 50.0 | 15.0 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.3 | 7.6 | 11.3 |

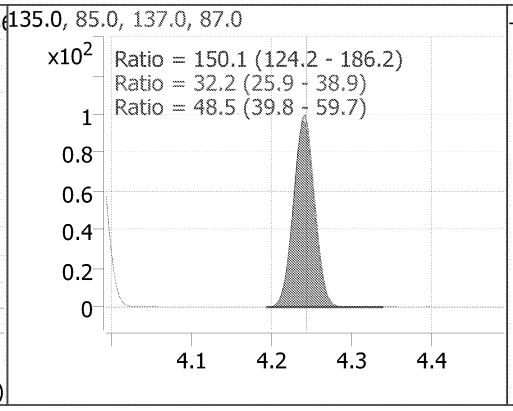


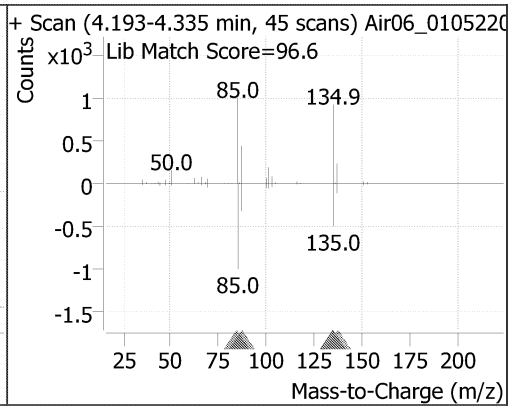

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 9.4318 | 4.13 | 0.00 | 498902 | 52.0 | 32.2 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.1 | 8.3 | 12.5 |



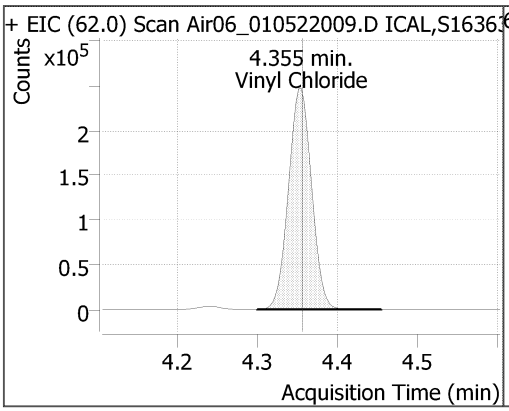
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 9.5313 | 4.24 | 0.00 | 757841 | 85.0 | 150.1 | 124.2 | 186.2 |
| | | | | | 87.0 | 48.5 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.2 | 25.9 | 38.9 |

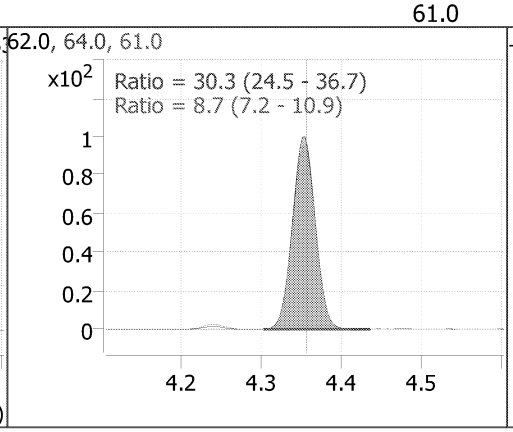


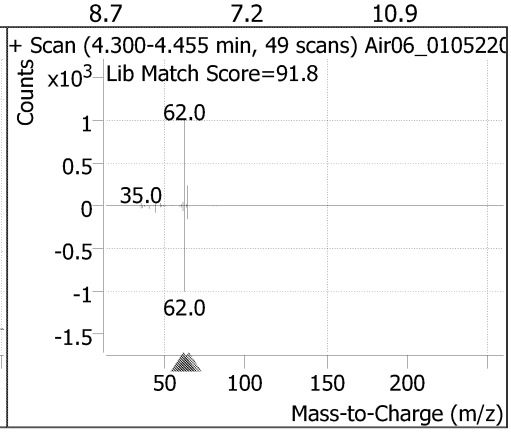



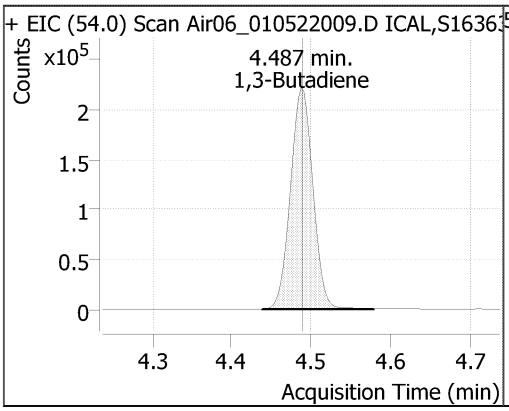

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 9.4114 | 4.35 | 0.00 | 498393 | 64.0 | 30.3 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.7 | 7.2 | 10.9 |

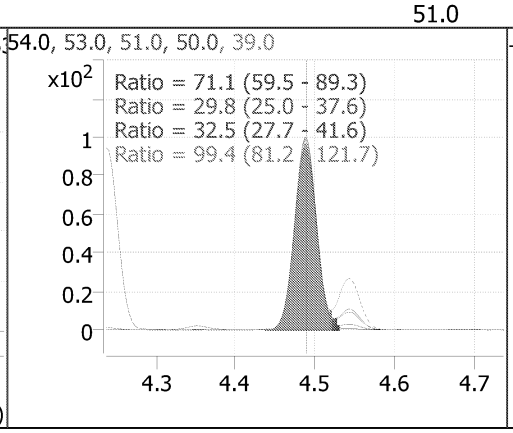


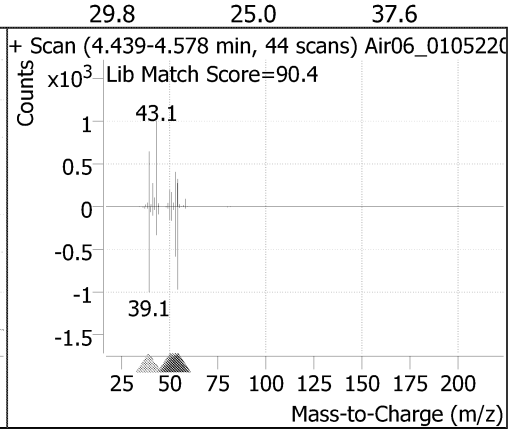



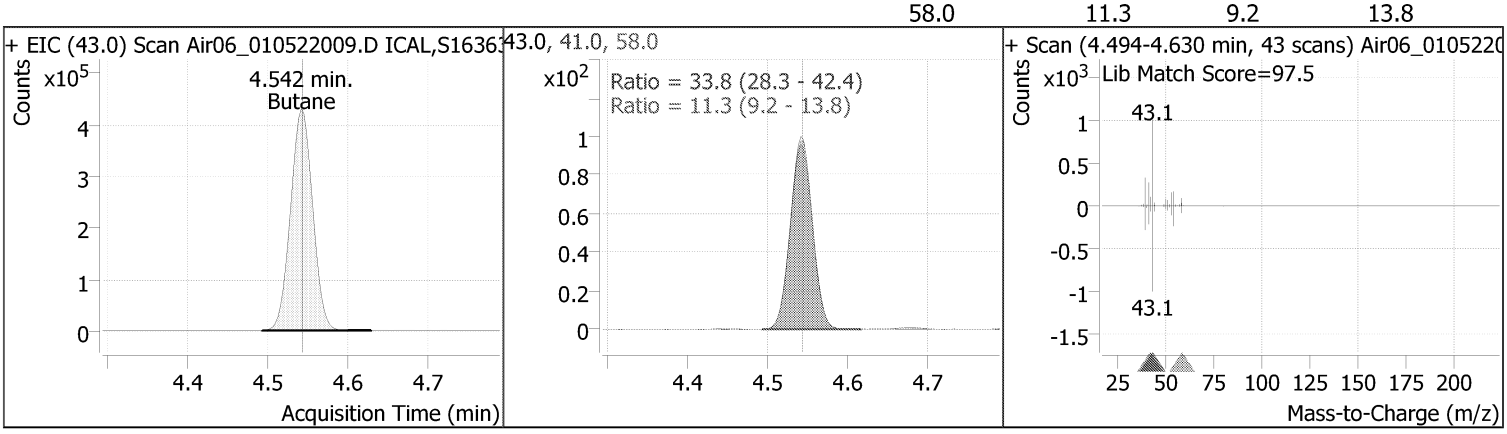

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 9.6096 | 4.49 | 0.00 | 434021 | 39.0 | 99.4 | 81.2 | 121.7 |
| | | | | | 53.0 | 71.1 | 59.5 | 89.3 |
| | | | | | 50.0 | 32.5 | 27.7 | 41.6 |
| | | | | | 51.0 | 29.8 | 25.0 | 37.6 |



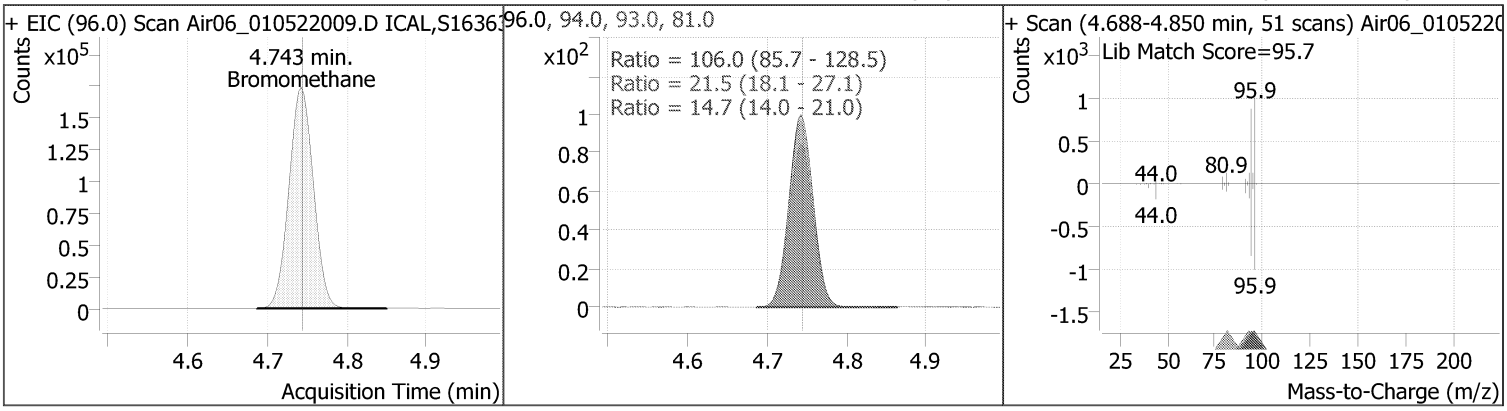



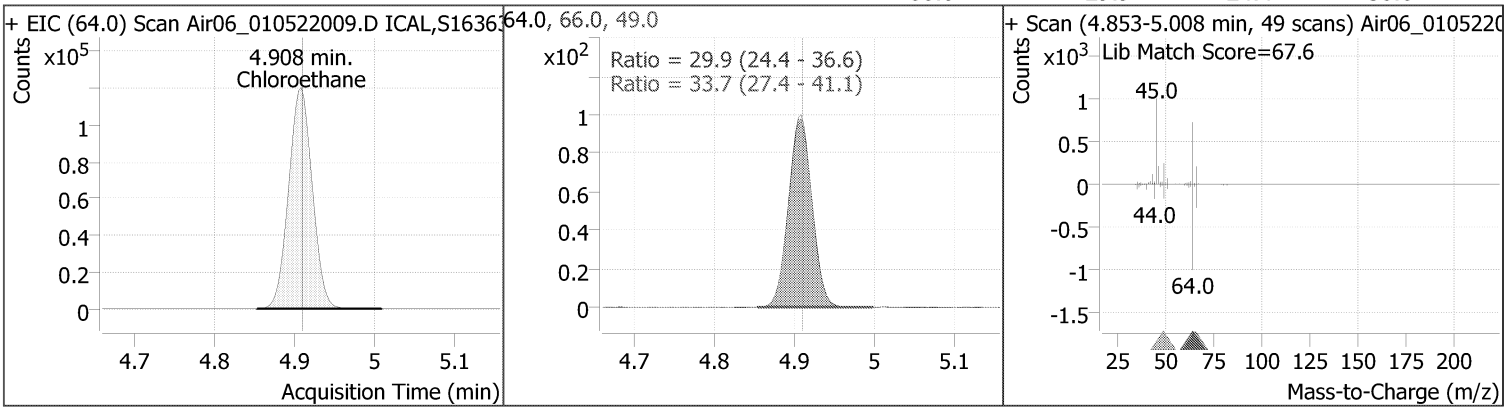
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 9.3898 | 4.54 | 0.00 | 829744 | 41.0 | 33.8 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.3 | 9.2 | 13.8 |



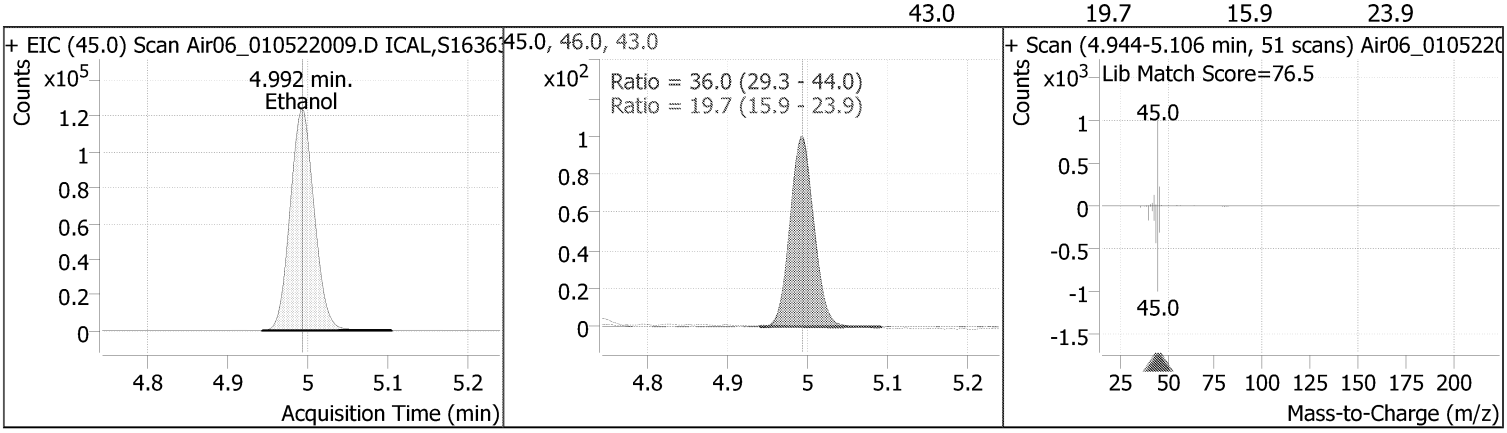

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 9.5779 | 4.74 | 0.00 | 372719 | 94.0 | 106.0 | 85.7 | 128.5 |
| | | | | | 93.0 | 21.5 | 18.1 | 27.1 |
| | | | | | 81.0 | 14.7 | 14.0 | 21.0 |



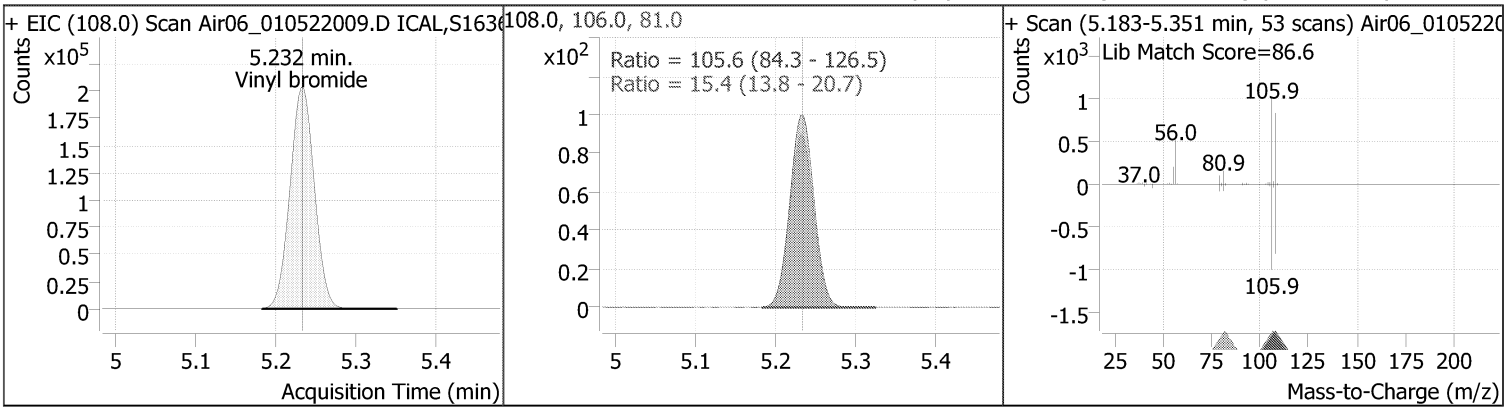

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 9.5094 | 4.91 | 0.00 | 247865 | 49.0 | 33.7 | 27.4 | 41.1 |
| | | | | | 66.0 | 29.9 | 24.4 | 36.6 |



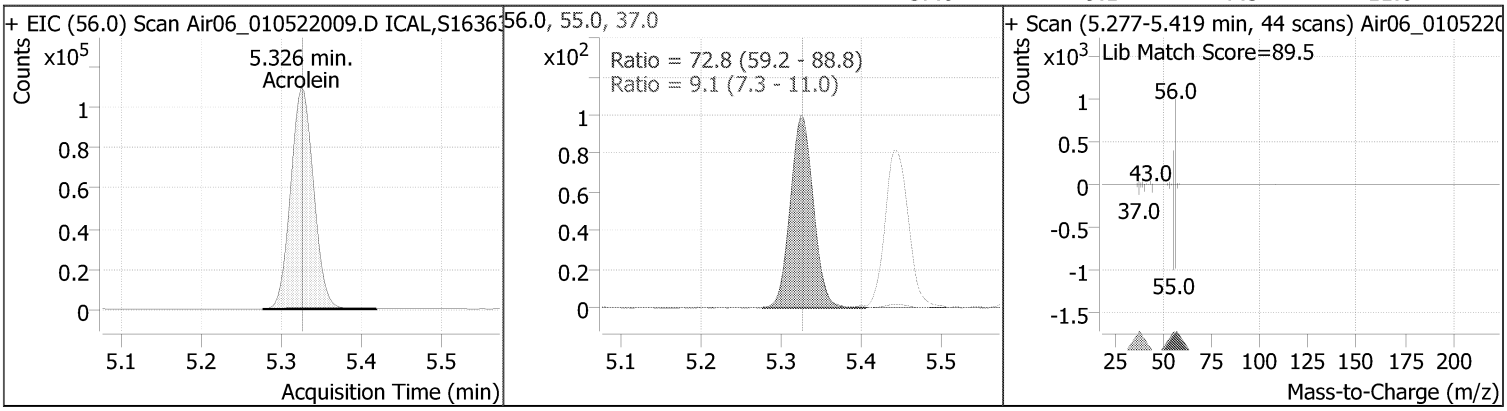
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 10.0149 | 4.99 | 0.00 | 261006 | 46.0 | 36.0 | 29.3 | 44.0 |
| | | | | | 43.0 | 19.7 | 15.9 | 23.9 |



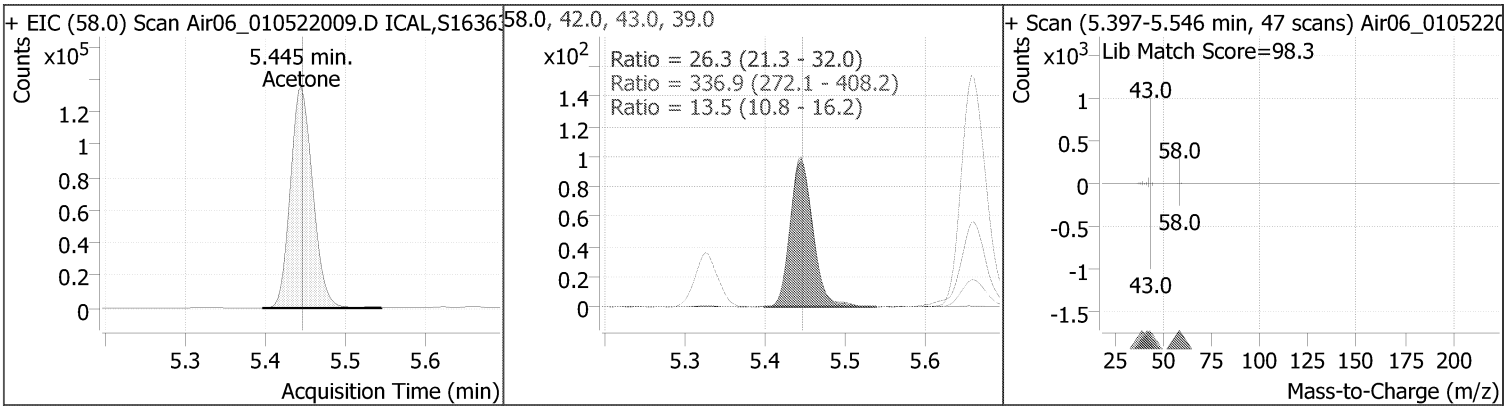

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 9.4919 | 5.23 | 0.00 | 433540 | 106.0 | 105.6 | 84.3 | 126.5 |
| | | | | | 81.0 | 15.4 | 13.8 | 20.7 |



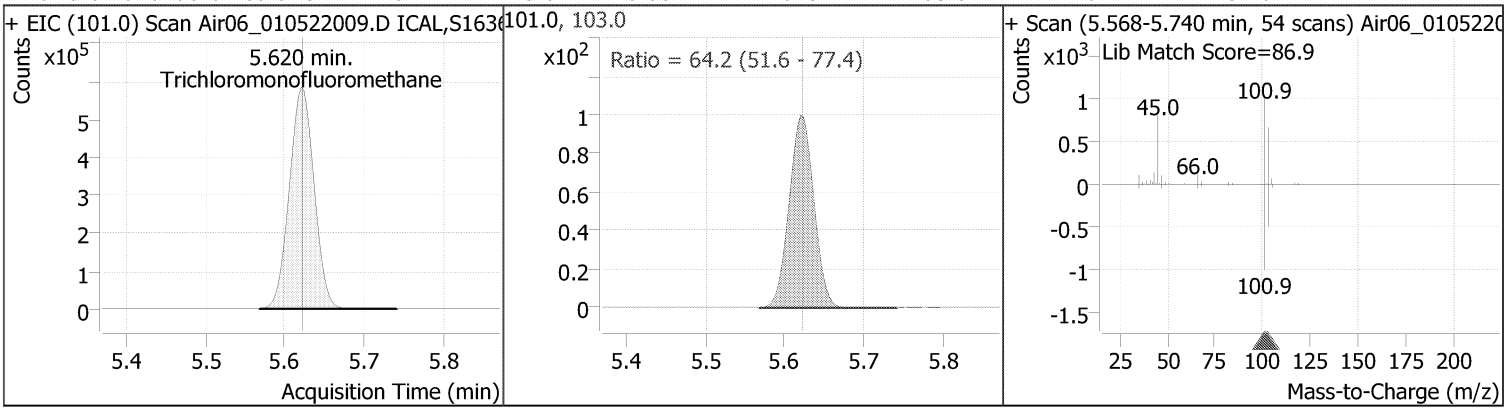

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 9.6198 | 5.33 | 0.00 | 219936 | 55.0 | 72.8 | 59.2 | 88.8 |
| | | | | | 37.0 | 9.1 | 7.3 | 11.0 |



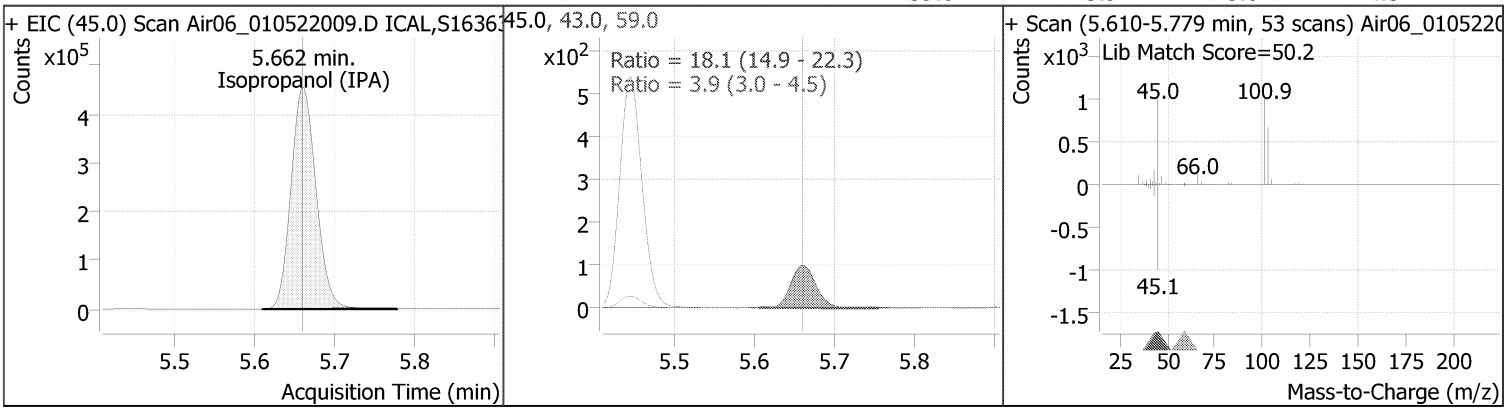
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 9.7817 | 5.45 | 0.00 | 264611 | 43.0 | 336.9 | 272.1 | 408.2 |
| | | | | | 42.0 | 26.3 | 21.3 | 32.0 |
| | | | | | 39.0 | 13.5 | 10.8 | 16.2 |



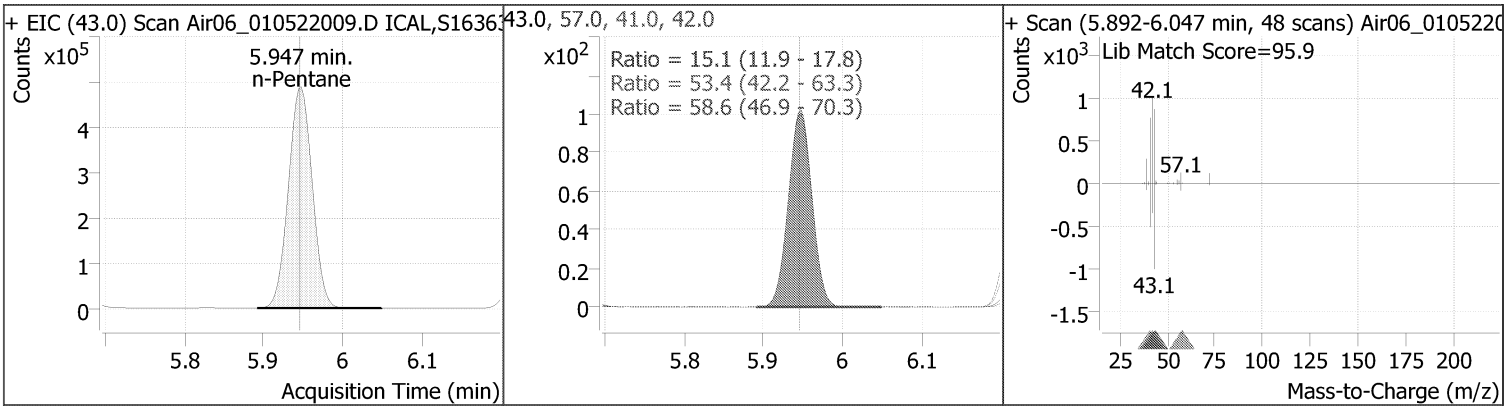

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 9.4447 | 5.62 | 0.00 | 1261511 | 103.0 | 64.2 | 51.6 | 77.4 |



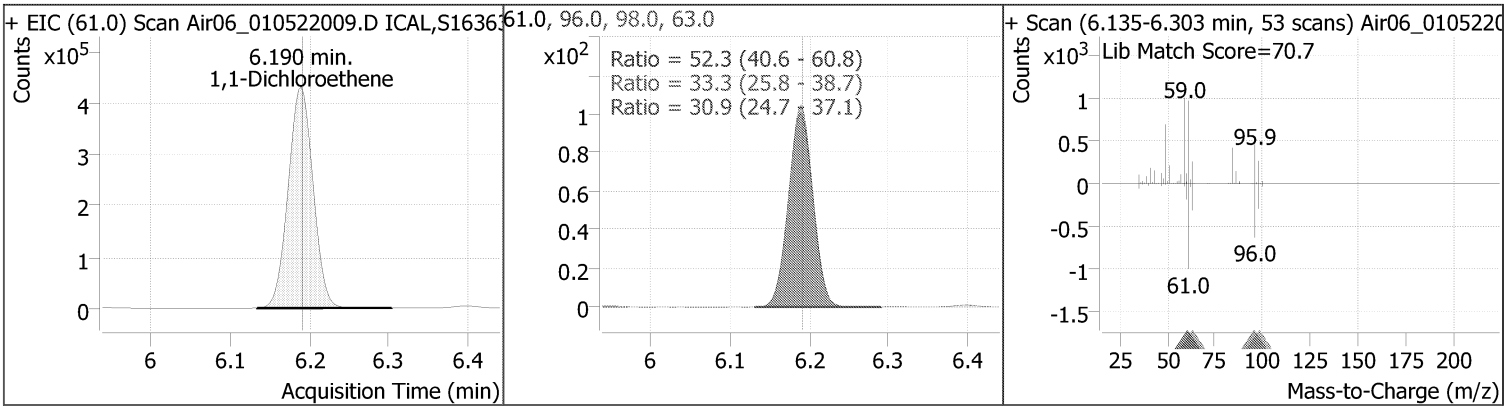

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 10.3615 | 5.66 | 0.00 | 991508 | 43.0 | 18.1 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.9 | 3.0 | 4.5 |



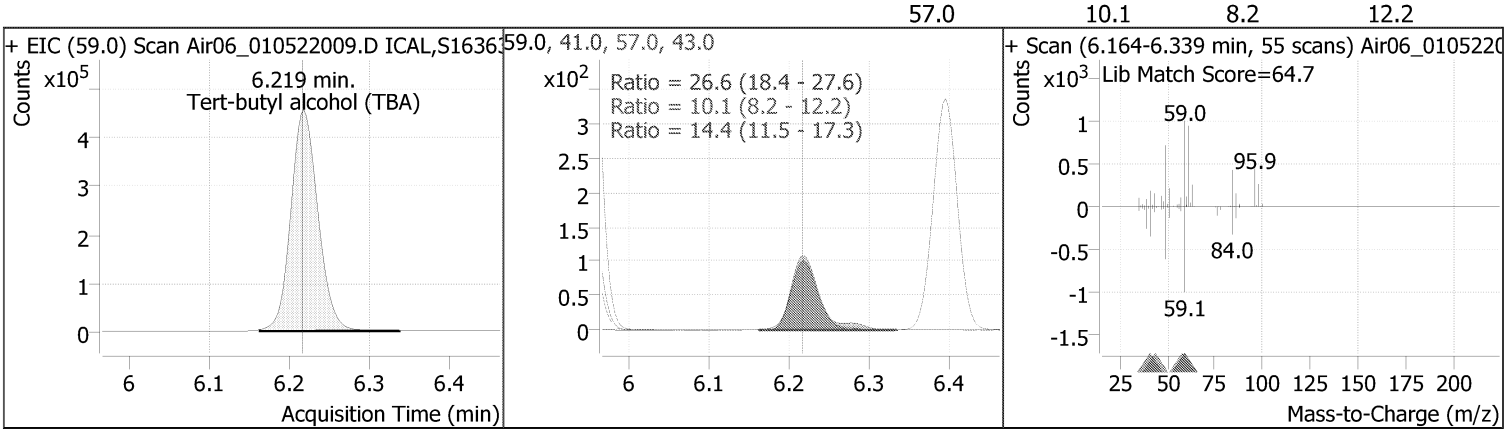
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 9.3574 | 5.95 | 0.00 | 1019381 | 42.0 | 58.6 | 46.9 | 70.3 |
| | | | | | 41.0 | 53.4 | 42.2 | 63.3 |
| | | | | | 57.0 | 15.1 | 11.9 | 17.8 |



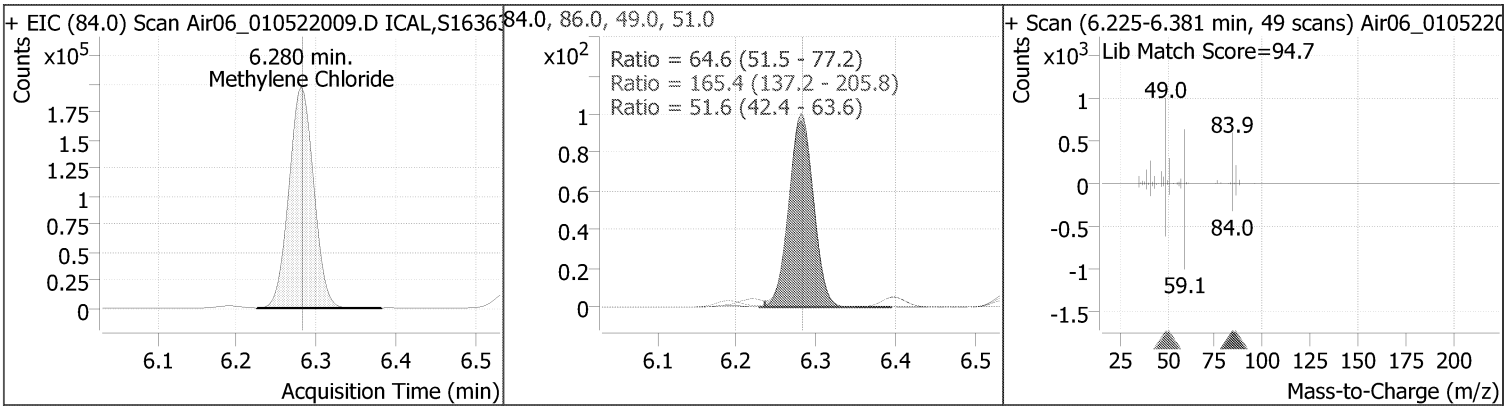

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 9.4489 | 6.19 | 0.00 | 937092 | 96.0 | 52.3 | 40.6 | 60.8 |
| | | | | | 98.0 | 33.3 | 25.8 | 38.7 |
| | | | | | 63.0 | 30.9 | 24.7 | 37.1 |



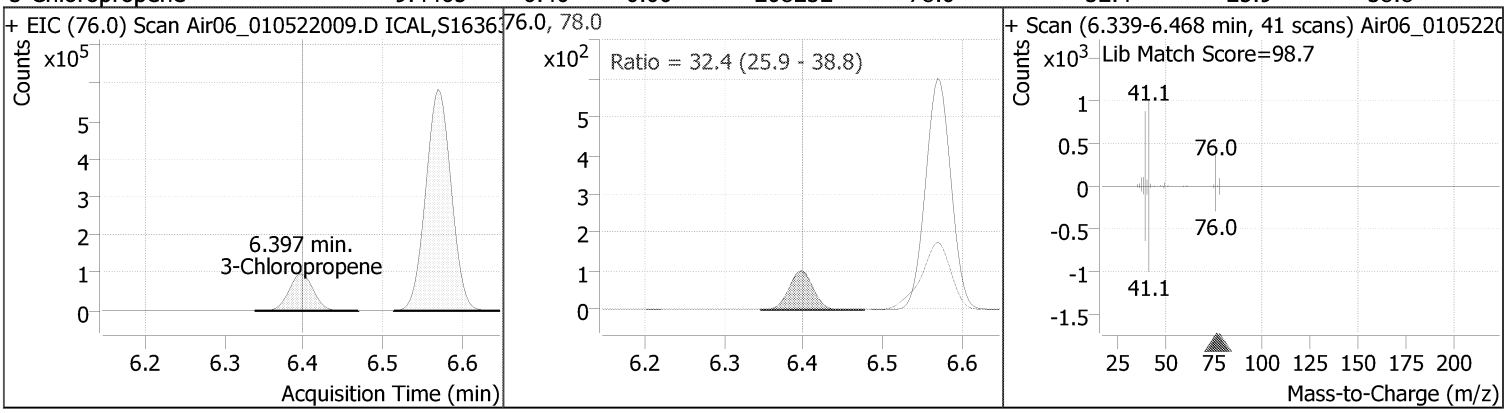

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 9.7197 | 6.22 | 0.00 | 1086867 | 41.0 | 26.6 | 18.4 | 27.6 |
| | | | | | 43.0 | 14.4 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.1 | 8.2 | 12.2 |



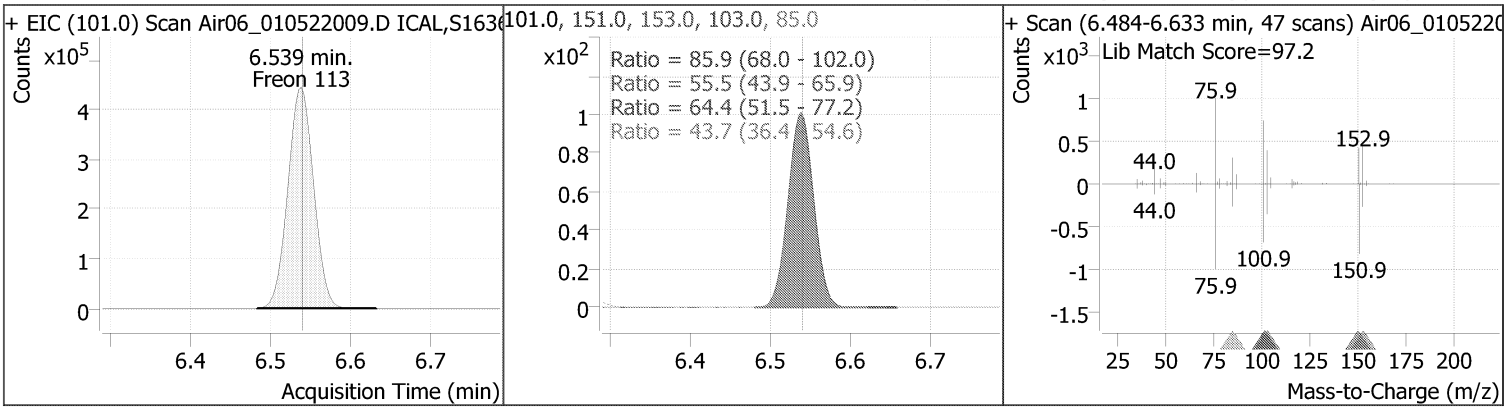
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 8.7600 | 6.28 | 0.00 | 425746 | 49.0 | 165.4 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.6 | 51.5 | 77.2 |
| | | | | | 51.0 | 51.6 | 42.4 | 63.6 |



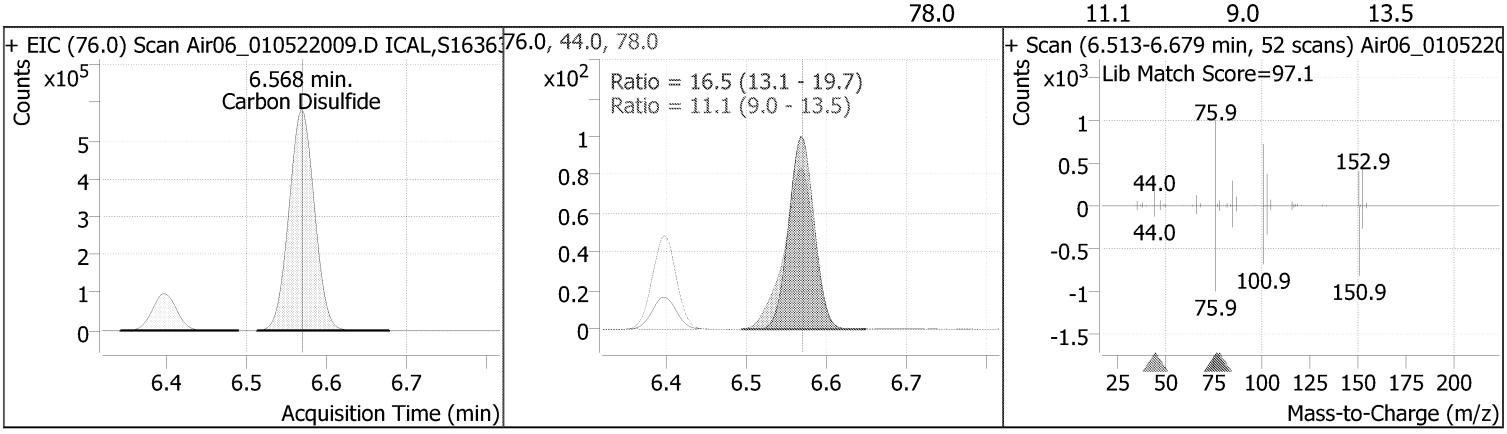

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 9.4465 | 6.40 | 0.00 | 208232 | 78.0 | 32.4 | 25.9 | 38.8 |



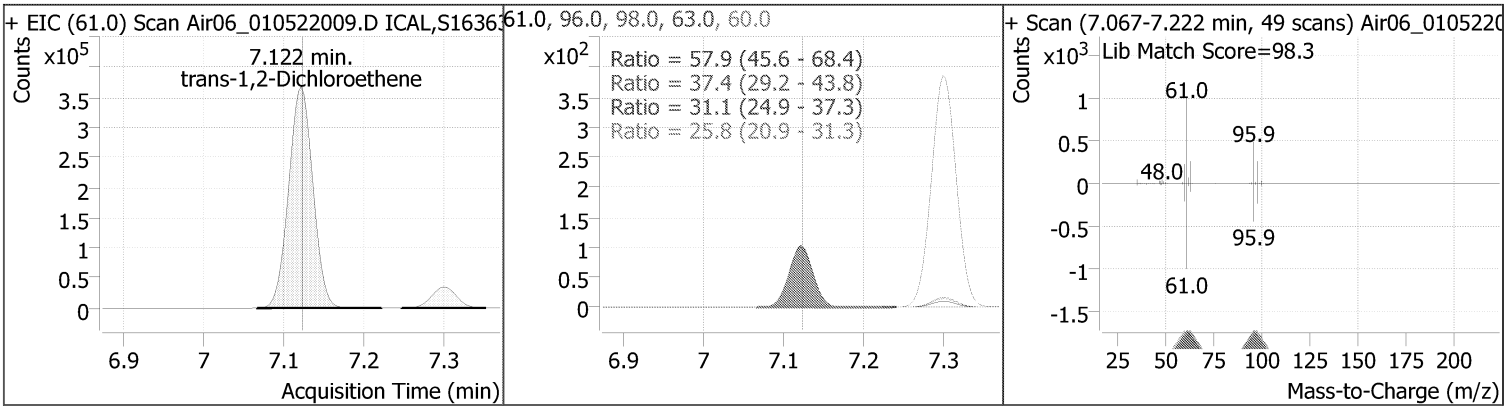

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 9.3158 | 6.54 | 0.00 | 999717 | 151.0 | 85.9 | 68.0 | 102.0 |
| | | | | | 103.0 | 64.4 | 51.5 | 77.2 |
| | | | | | 153.0 | 55.5 | 43.9 | 65.9 |
| | | | | | 85.0 | 43.7 | 36.4 | 54.6 |



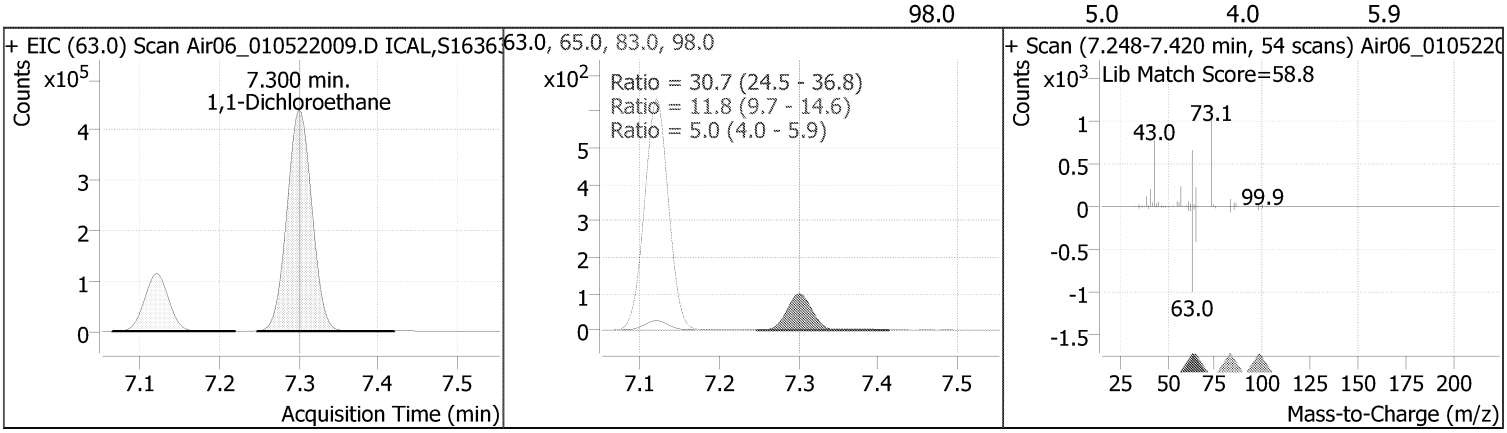
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 9.3482 | 6.57 | 0.00 | 1297550 | 44.0 | 16.5 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.1 | 9.0 | 13.5 |



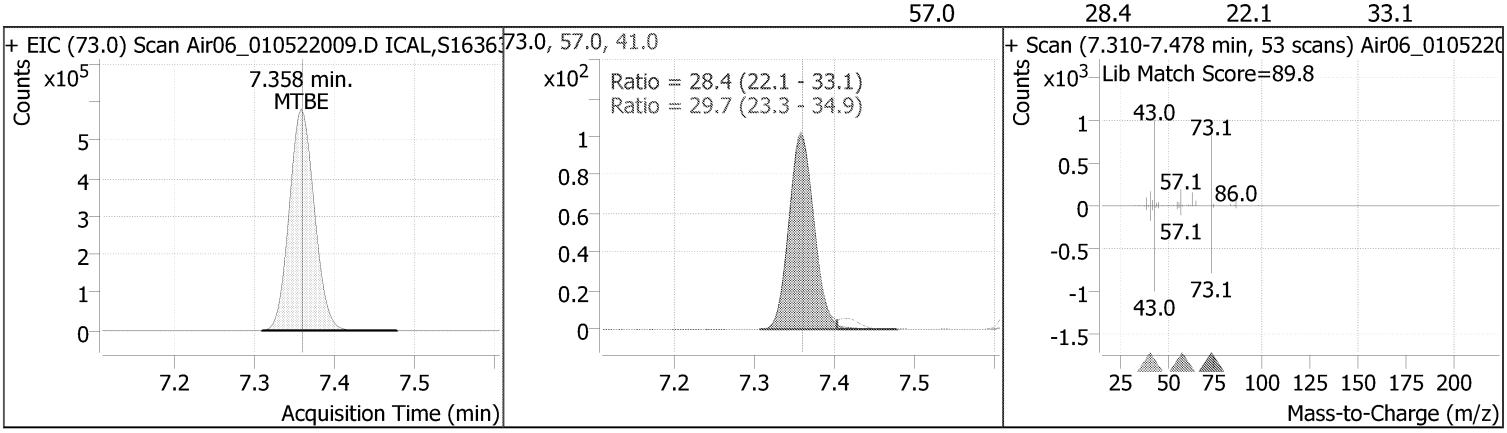

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 9.3921 | 7.12 | 0.00 | 777088 | 96.0 | 57.9 | 45.6 | 68.4 |
| | | | | | 98.0 | 37.4 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.1 | 24.9 | 37.3 |
| | | | | | 60.0 | 25.8 | 20.9 | 31.3 |



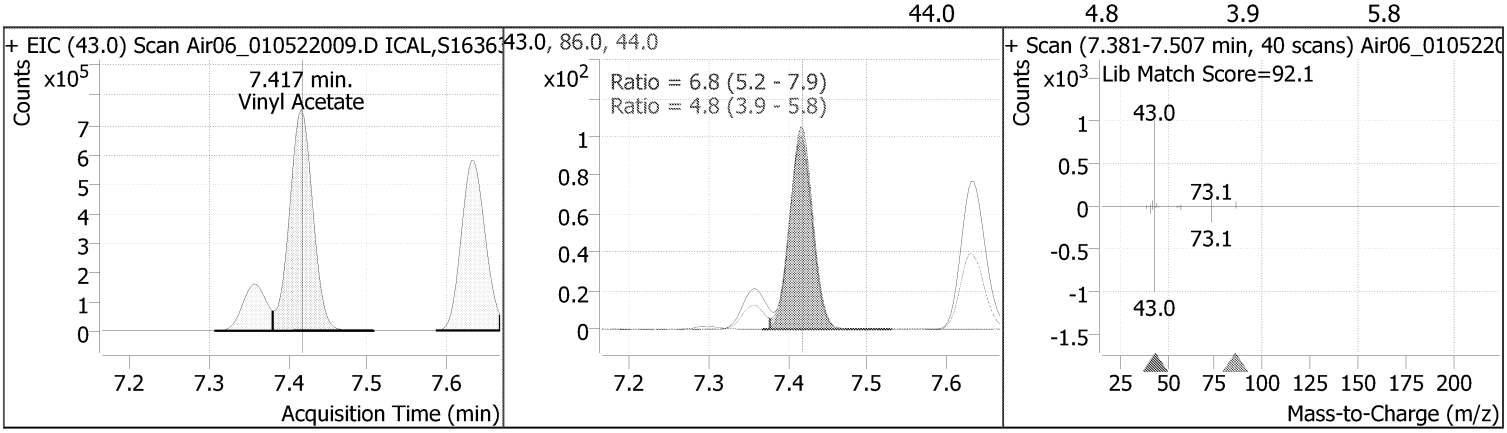

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 9.4371 | 7.30 | 0.00 | 958140 | 65.0 | 30.7 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.8 | 9.7 | 14.6 |
| | | | | | 98.0 | 5.0 | 4.0 | 5.9 |



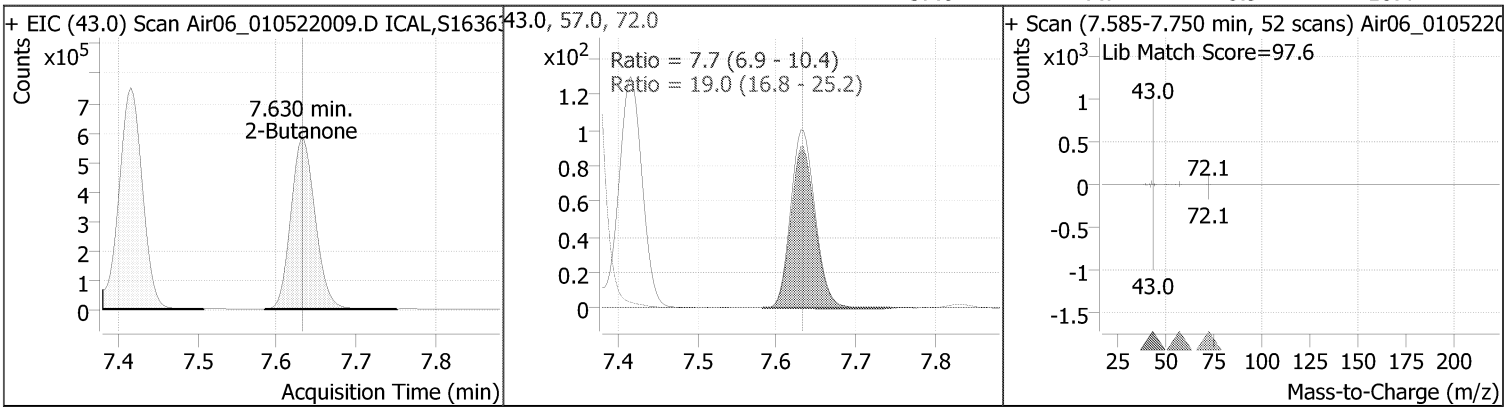
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 9.4490 | 7.36 | 0.00 | 1272603 | 41.0 | 29.7 | 23.3 | 34.9 |
| | | | | | 57.0 | 28.4 | 22.1 | 33.1 |



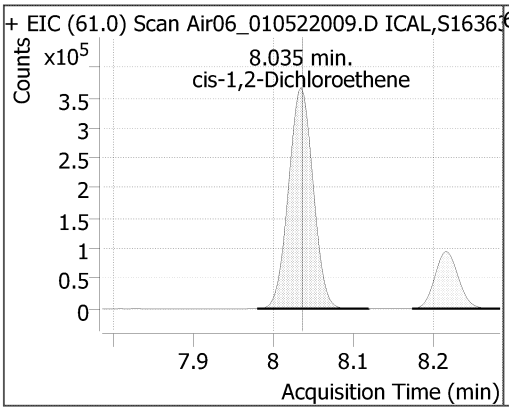

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 8.4389 | 7.42 | 0.00 | 1532519 | 86.0 | 6.8 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.8 | 3.9 | 5.8 |

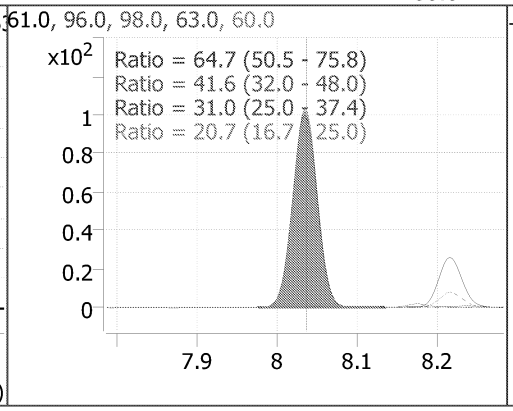


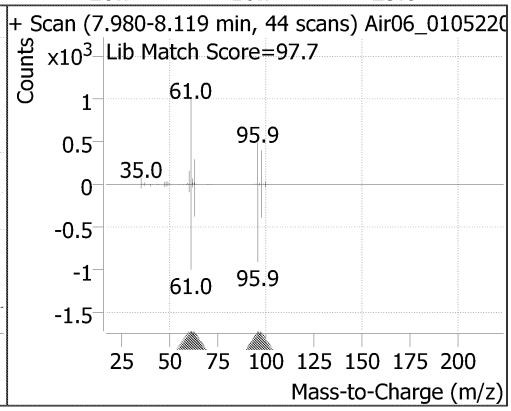

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 9.3823 | 7.63 | 0.00 | 1233679 | 72.0 | 19.0 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.7 | 6.9 | 10.4 |



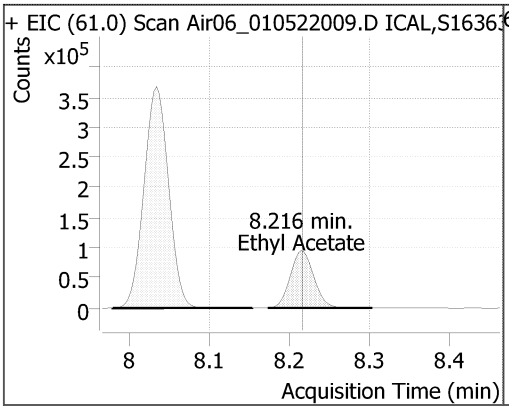
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 9.3872 | 8.03 | 0.00 | 785532 | 96.0 | 64.7 | 50.5 | 75.8 |
| | | | | | 98.0 | 41.6 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.0 | 25.0 | 37.4 |
| | | | | | 60.0 | 20.7 | 16.7 | 25.0 |

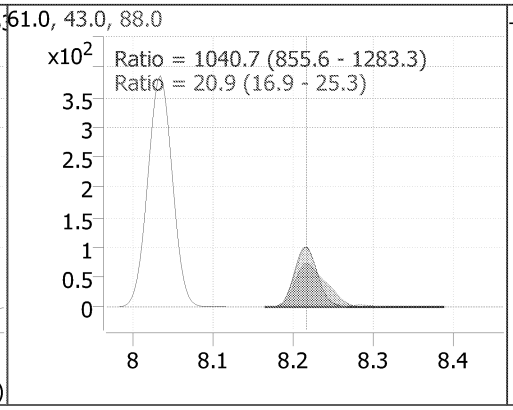


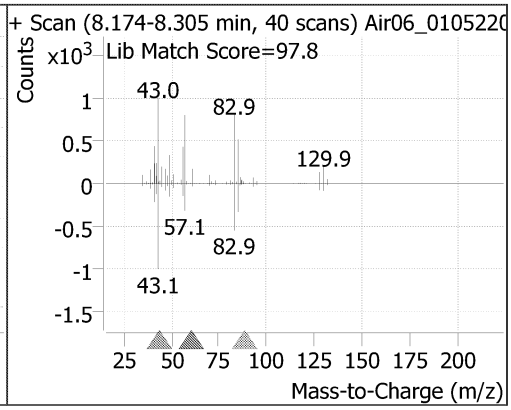



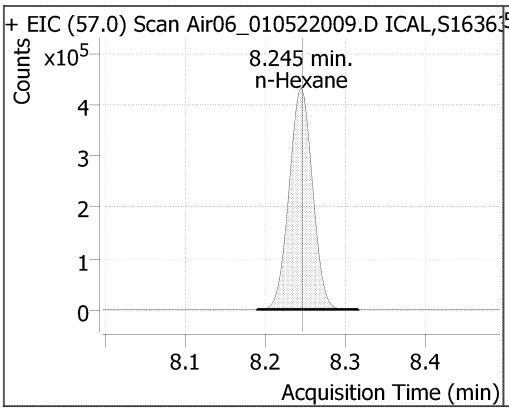

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 9.4687 | 8.22 | 0.00 | 194235 | 43.0 | 1040.7 | 855.6 | 1283.3 |
| | | | | | 88.0 | 20.9 | 16.9 | 25.3 |

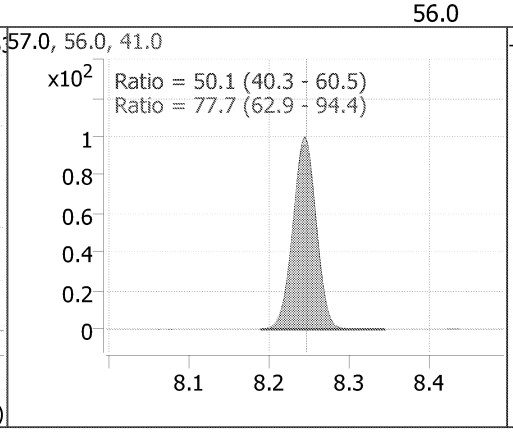


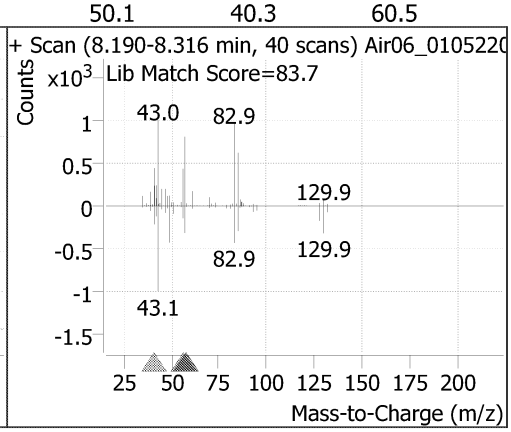



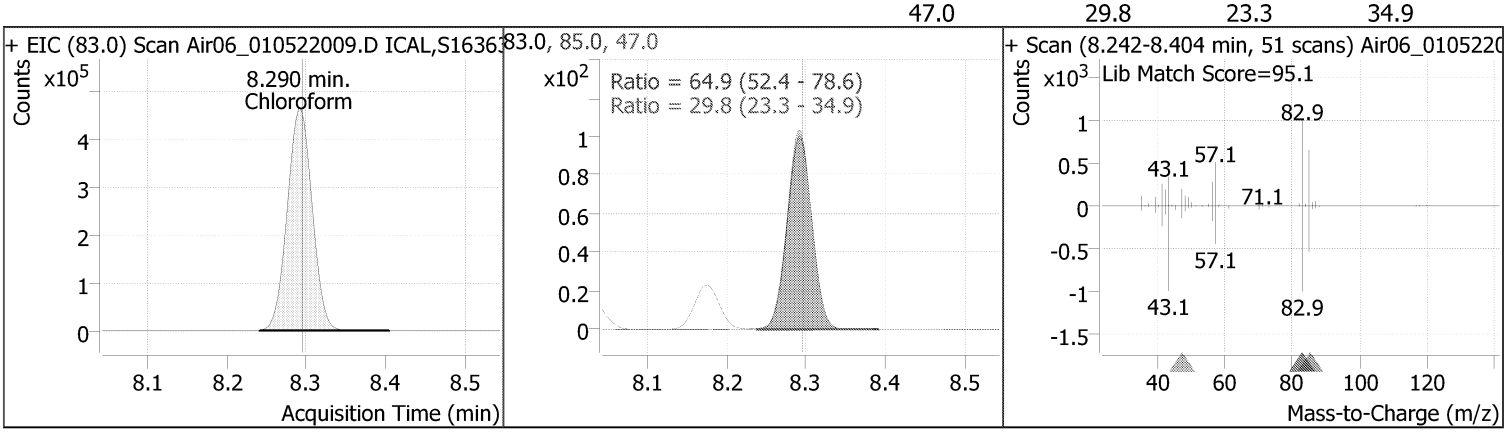

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 9.3514 | 8.25 | 0.00 | 886307 | 41.0 | 77.7 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.1 | 40.3 | 60.5 |



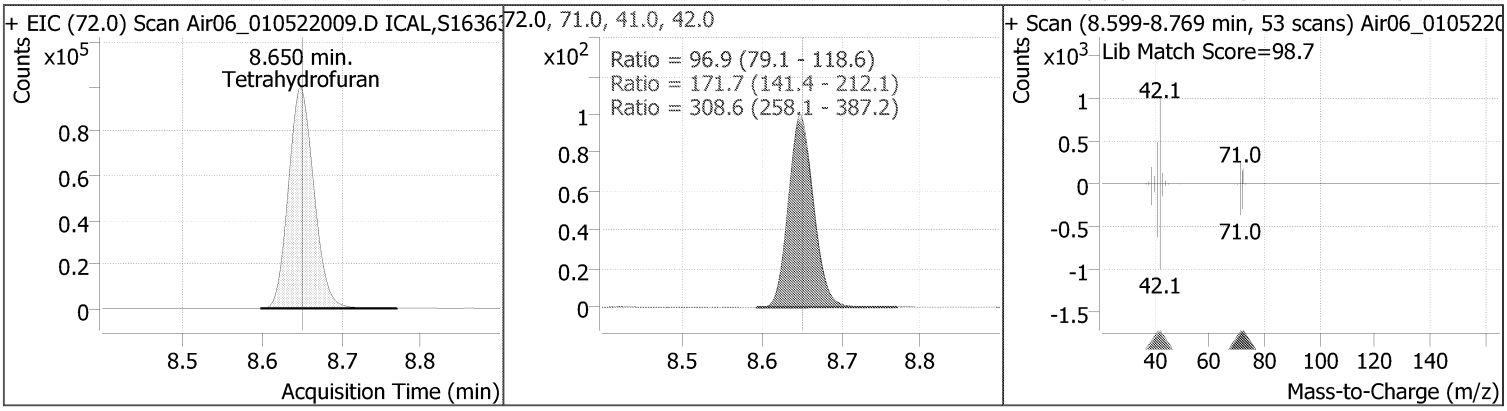



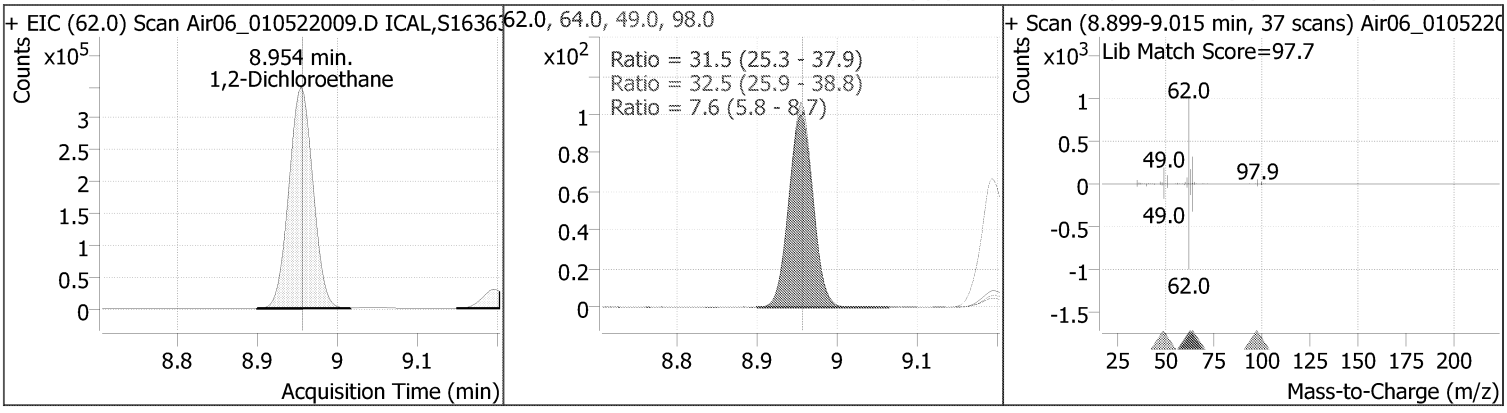
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 9.4493 | 8.29 | 0.00 | 1011146 | 85.0 | 64.9 | 52.4 | 78.6 |
| | | | | | 47.0 | 29.8 | 23.3 | 34.9 |



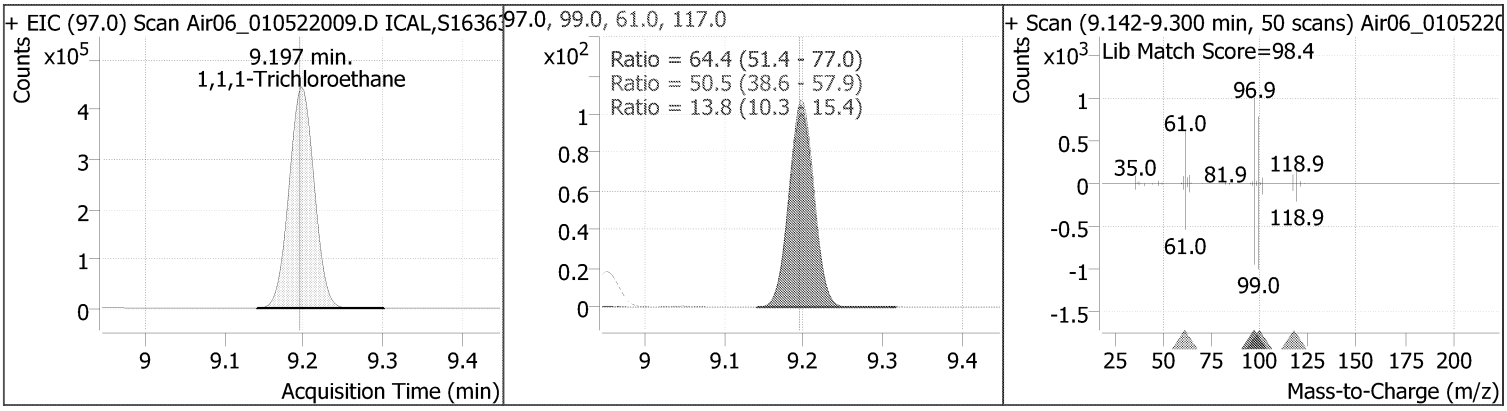

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 9.4486 | 8.65 | 0.00 | 221934 | 42.0 | 308.6 | 258.1 | 387.2 |
| | | | | | 41.0 | 171.7 | 141.4 | 212.1 |
| | | | | | 71.0 | 96.9 | 79.1 | 118.6 |



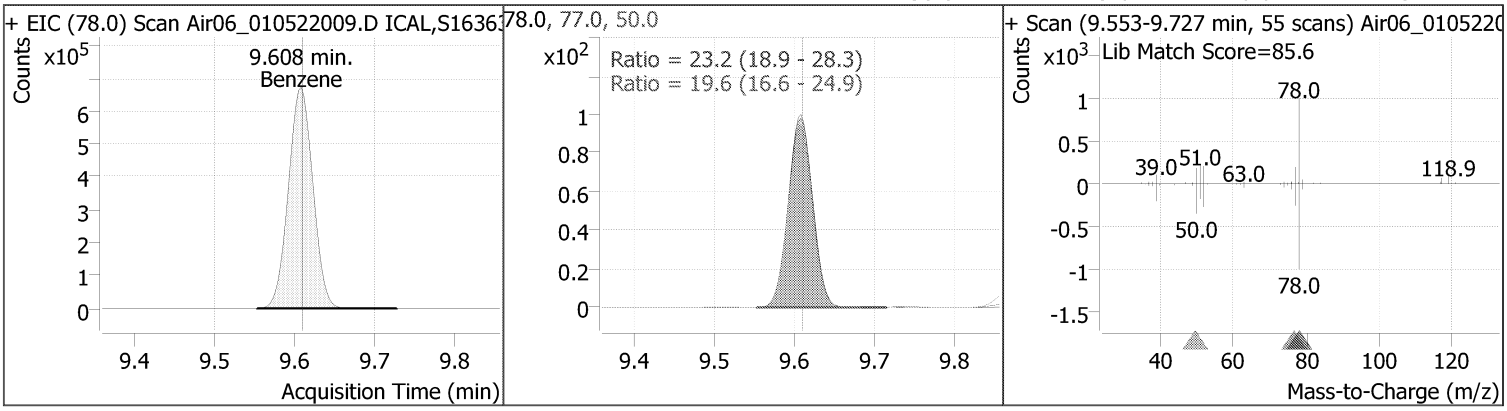

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 9.3956 | 8.95 | 0.00 | 734712 | 49.0 | 32.5 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.5 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.6 | 5.8 | 8.7 |



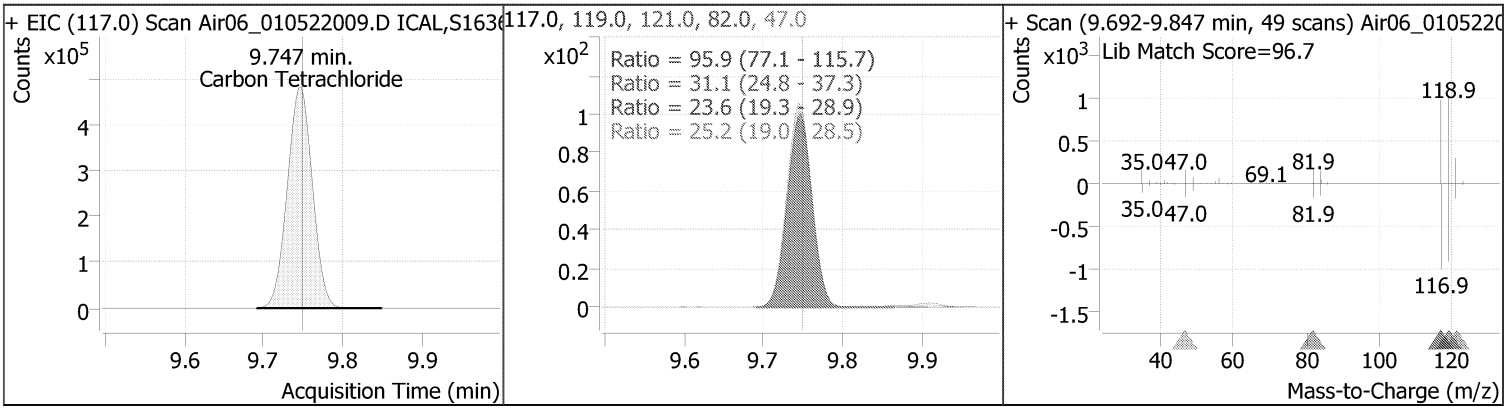
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 9.4921 | 9.20 | 0.00 | 979841 | 99.0 | 64.4 | 51.4 | 77.0 |
| | | | | | 61.0 | 50.5 | 38.6 | 57.9 |
| | | | | | 117.0 | 13.8 | 10.3 | 15.4 |



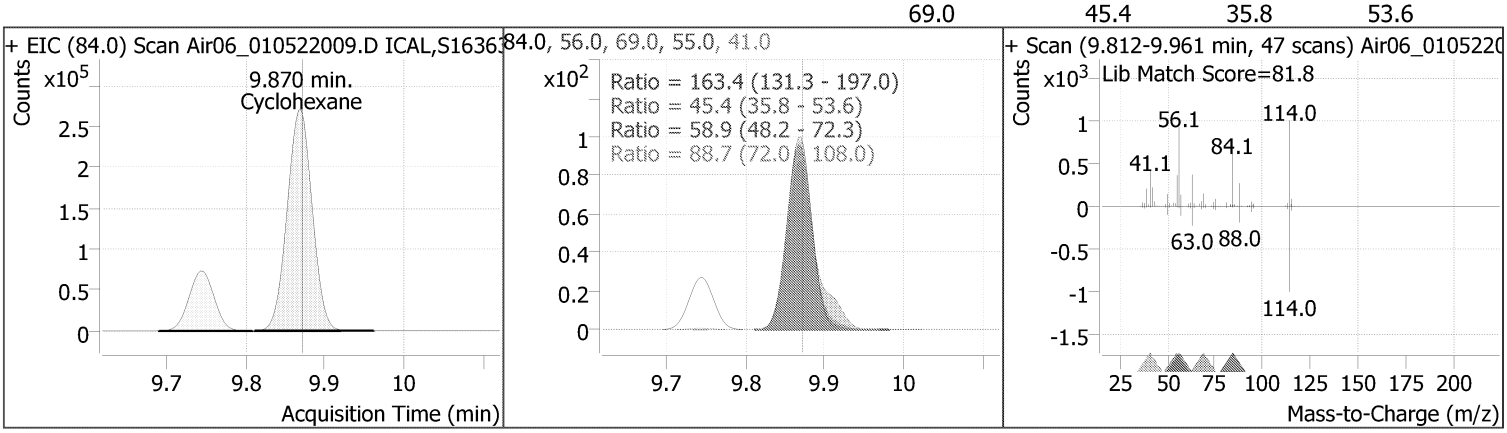

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 9.3357 | 9.61 | 0.00 | 1439917 | 77.0 | 23.2 | 18.9 | 28.3 |
| | | | | | 50.0 | 19.6 | 16.6 | 24.9 |



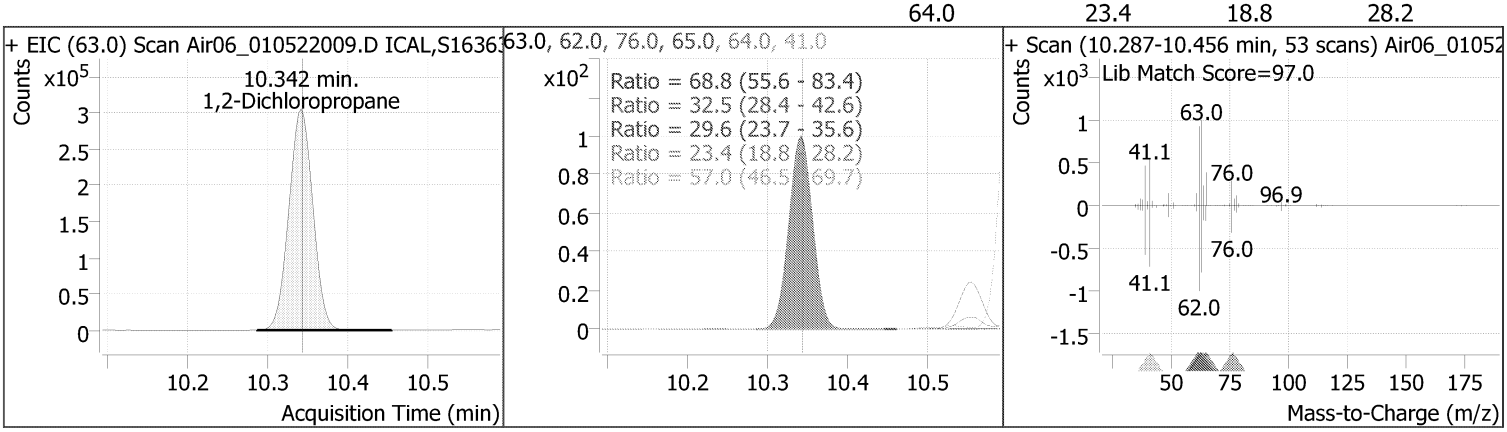

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 9.5590 | 9.75 | 0.00 | 1052704 | 119.0 | 95.9 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.1 | 24.8 | 37.3 |
| | | | | | 82.0 | 23.6 | 19.3 | 28.9 |
| | | | | | 47.0 | 25.2 | 19.0 | 28.5 |



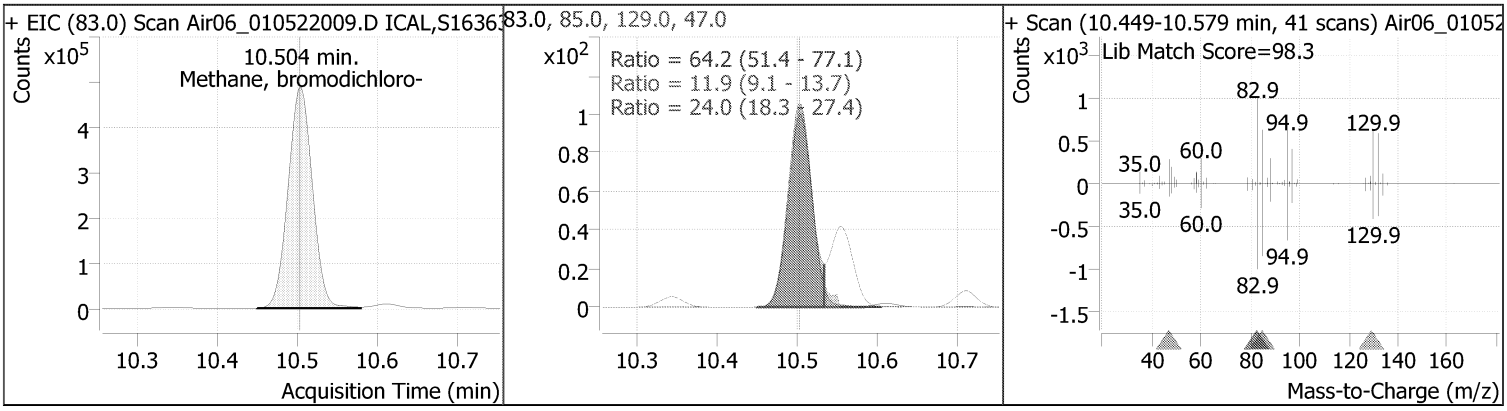
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 9.1711 | 9.87 | 0.00 | 592356 | 56.0 | 163.4 | 131.3 | 197.0 |
| | | | | | 41.0 | 88.7 | 72.0 | 108.0 |
| | | | | | 55.0 | 58.9 | 48.2 | 72.3 |
| | | | | | 69.0 | 45.4 | 35.8 | 53.6 |



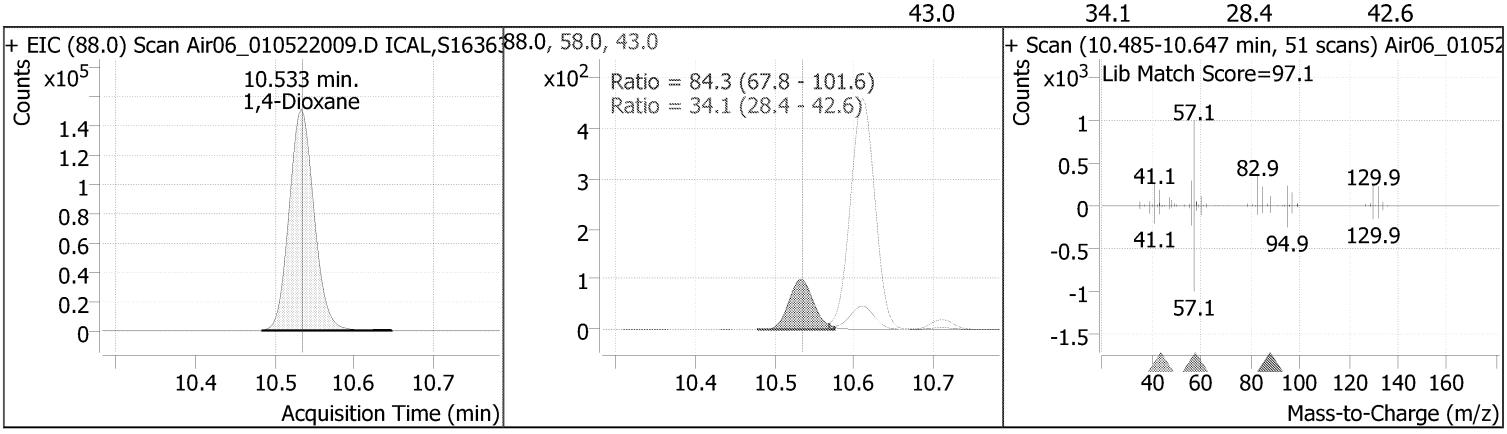

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 9.6371 | 10.34 | 0.00 | 638513 | 62.0 | 68.8 | 55.6 | 83.4 |
| | | | | | 41.0 | 57.0 | 46.5 | 69.7 |
| | | | | | 76.0 | 32.5 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.6 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.4 | 18.8 | 28.2 |



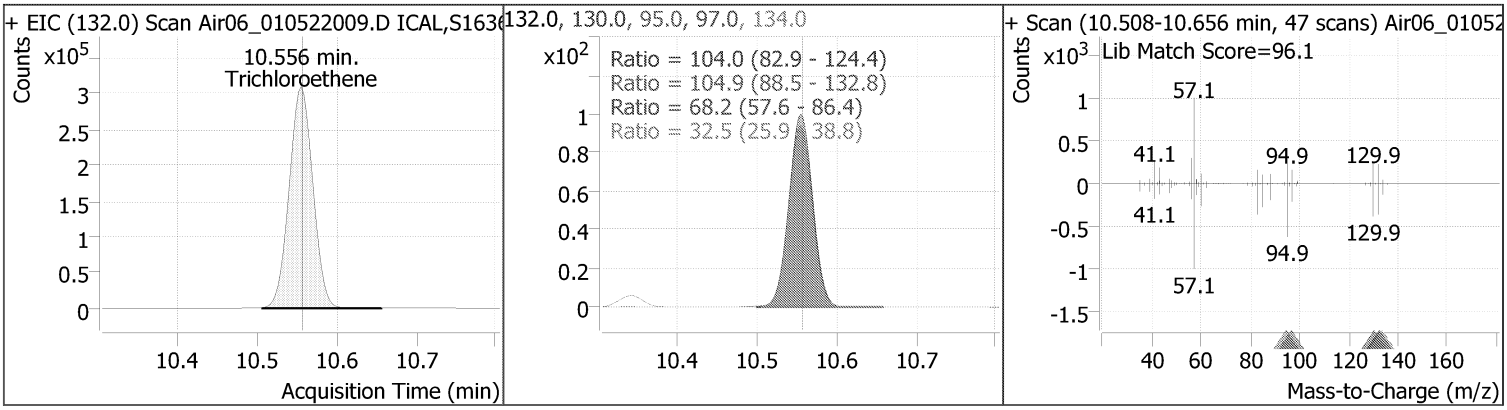

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 9.5805 | 10.50 | 0.00 | 1041172 | 85.0 | 64.2 | 51.4 | 77.1 |
| | | | | | 47.0 | 24.0 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.9 | 9.1 | 13.7 |



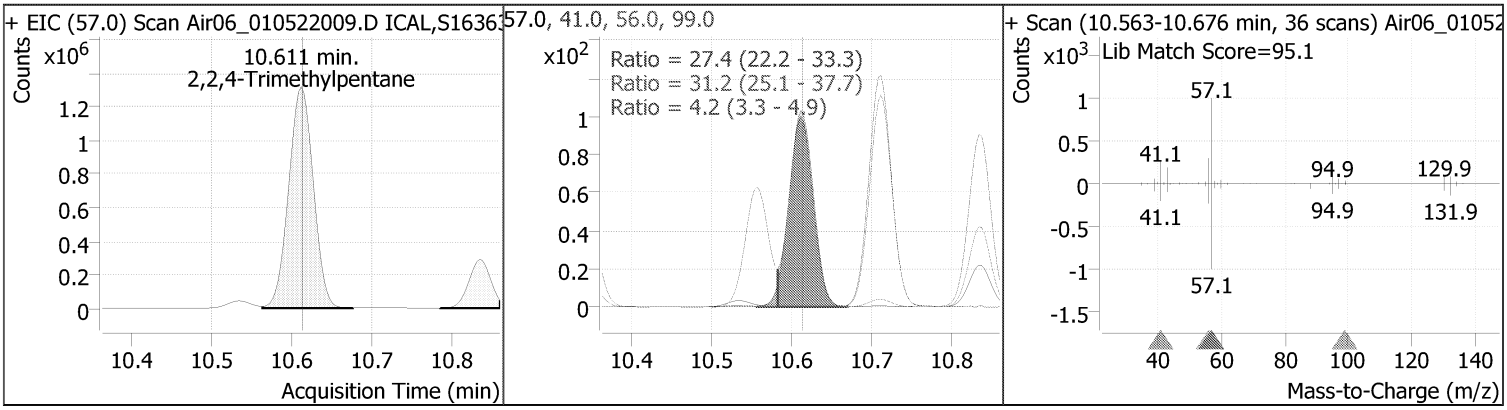
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 9.4481 | 10.53 | 0.00 | 328784 | 58.0 | 84.3 | 67.8 | 101.6 |
| | | | | | 43.0 | 34.1 | 28.4 | 42.6 |



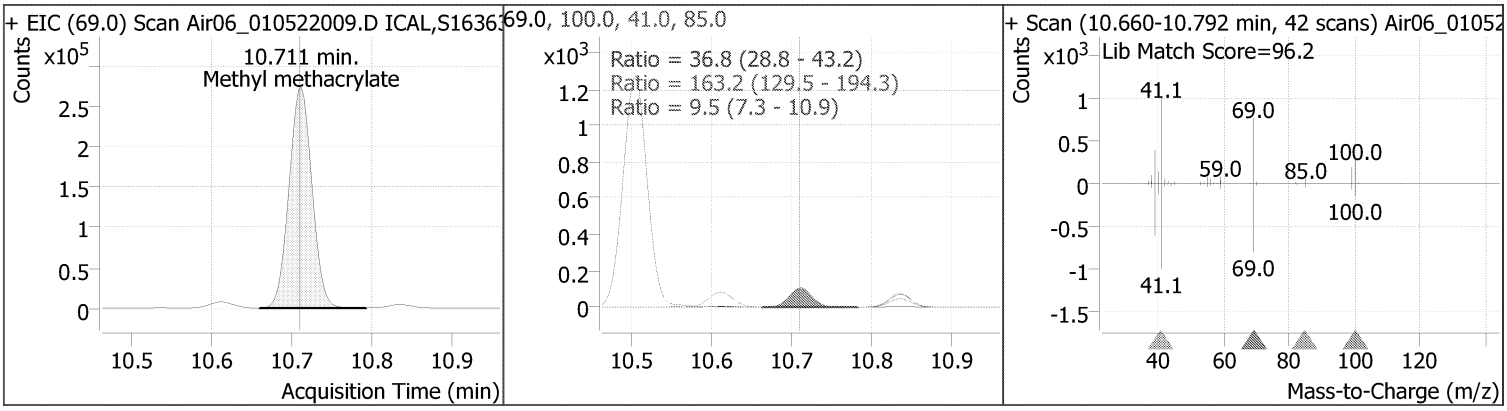

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 9.4280 | 10.56 | 0.00 | 640960 | 95.0 | 104.9 | 88.5 | 132.8 |
| | | | | | 130.0 | 104.0 | 82.9 | 124.4 |
| | | | | | 97.0 | 68.2 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.5 | 25.9 | 38.8 |



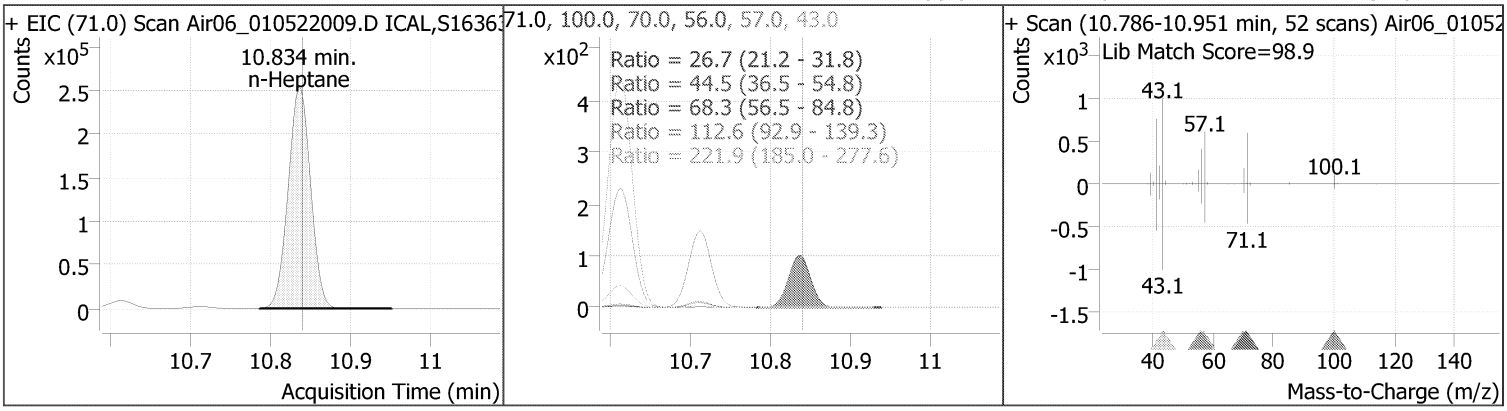

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 9.2766 | 10.61 | 0.00 | 2838434 | 56.0 | 31.2 | 25.1 | 37.7 |
| | | | | | 41.0 | 27.4 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.2 | 3.3 | 4.9 |



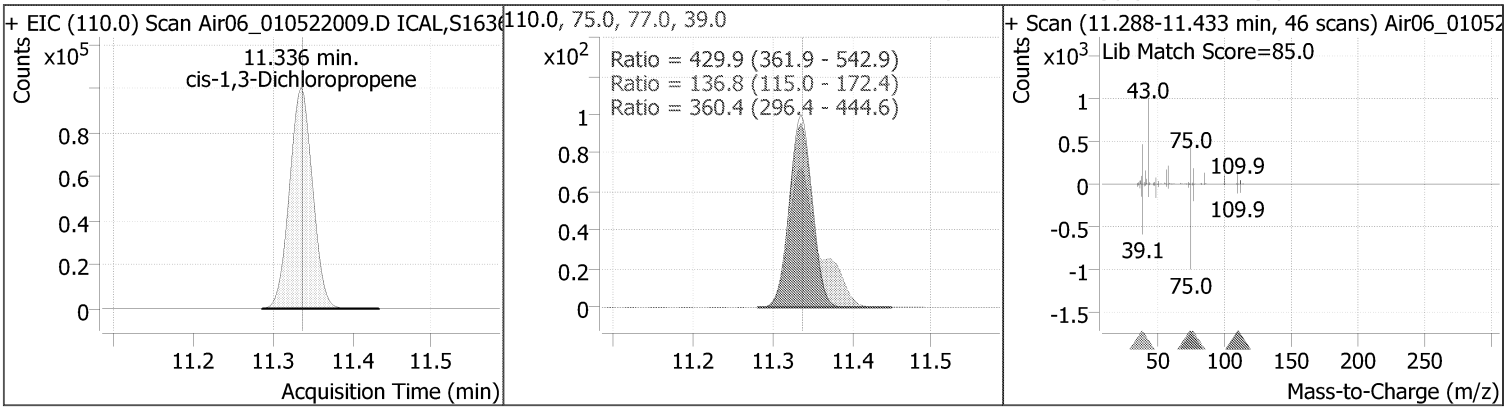
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 9.7045 | 10.71 | 0.00 | 545510 | 41.0 | 163.2 | 129.5 | 194.3 |
| | | | | | 100.0 | 36.8 | 28.8 | 43.2 |
| | | | | | 85.0 | 9.5 | 7.3 | 10.9 |



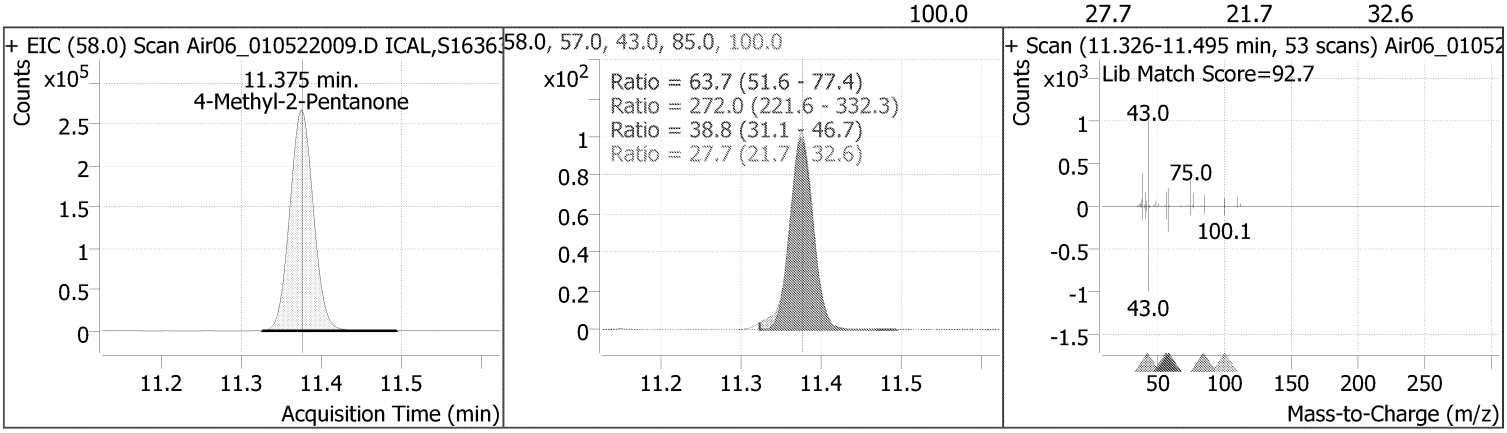

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 9.5102 | 10.83 | 0.00 | 498520 | 43.0 | 221.9 | 185.0 | 277.6 |
| | | | | | 57.0 | 112.6 | 92.9 | 139.3 |
| | | | | | 56.0 | 68.3 | 56.5 | 84.8 |
| | | | | | 70.0 | 44.5 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.7 | 21.2 | 31.8 |



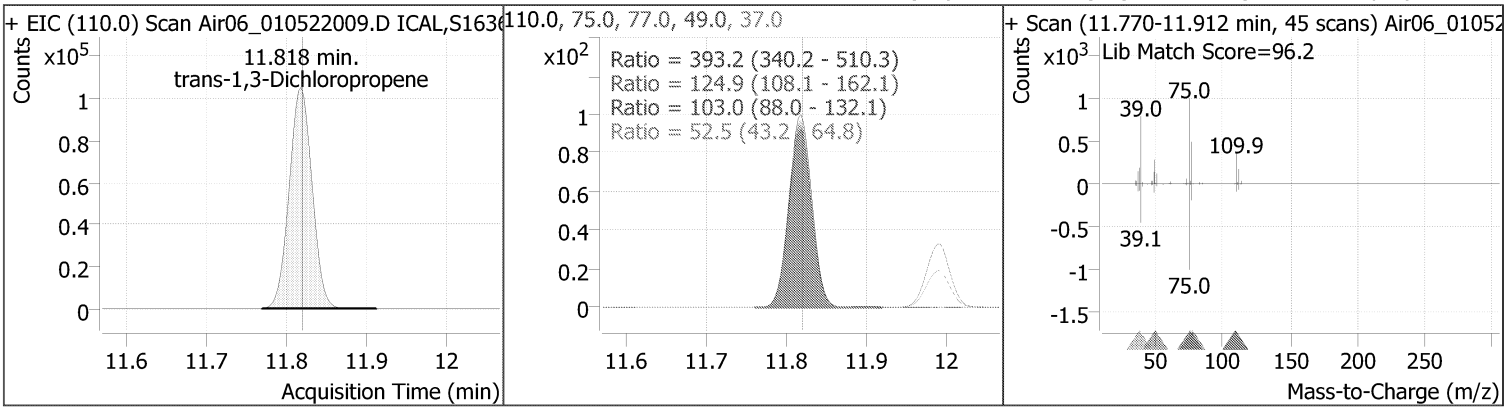

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 9.6576 | 11.34 | 0.00 | 202668 | 75.0 | 429.9 | 361.9 | 542.9 |
| | | | | | 39.0 | 360.4 | 296.4 | 444.6 |
| | | | | | 77.0 | 136.8 | 115.0 | 172.4 |



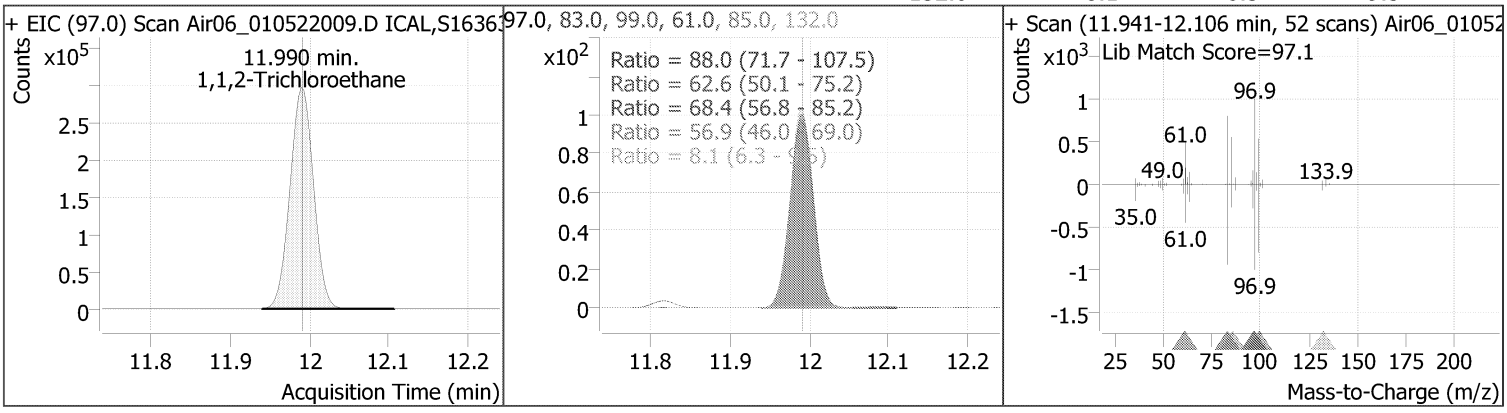
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 9.4734 | 11.37 | 0.00 | 552675 | 43.0 | 272.0 | 221.6 | 332.3 |
| | | | | | 57.0 | 63.7 | 51.6 | 77.4 |
| | | | | | 85.0 | 38.8 | 31.1 | 46.7 |
| | | | | | 100.0 | 27.7 | 21.7 | 32.6 |



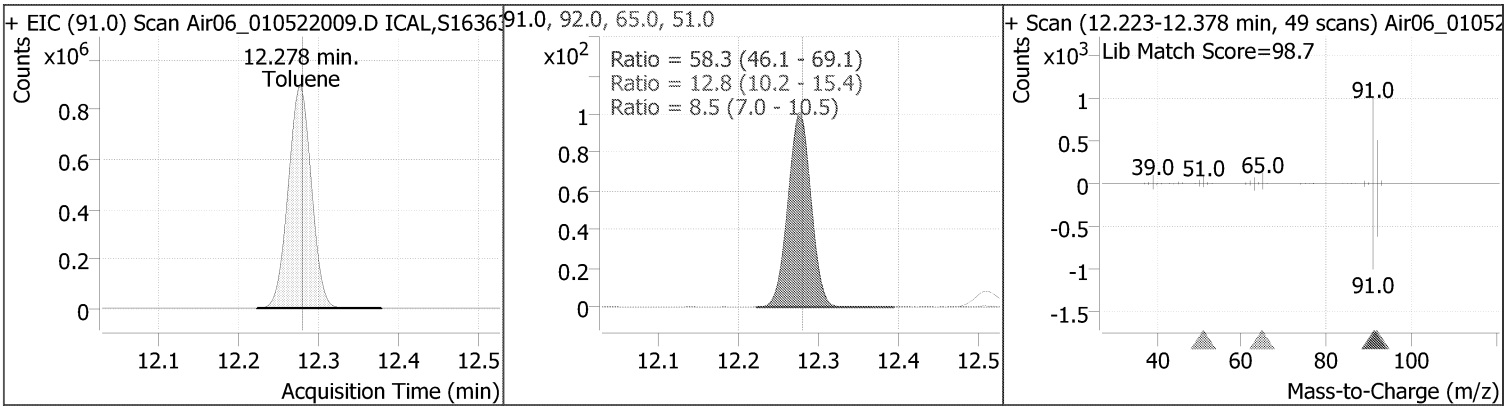

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 9.8138 | 11.82 | 0.00 | 210663 | 75.0 | 393.2 | 340.2 | 510.3 |
| | | | | | 77.0 | 124.9 | 108.1 | 162.1 |
| | | | | | 49.0 | 103.0 | 88.0 | 132.1 |
| | | | | | 37.0 | 52.5 | 43.2 | 64.8 |



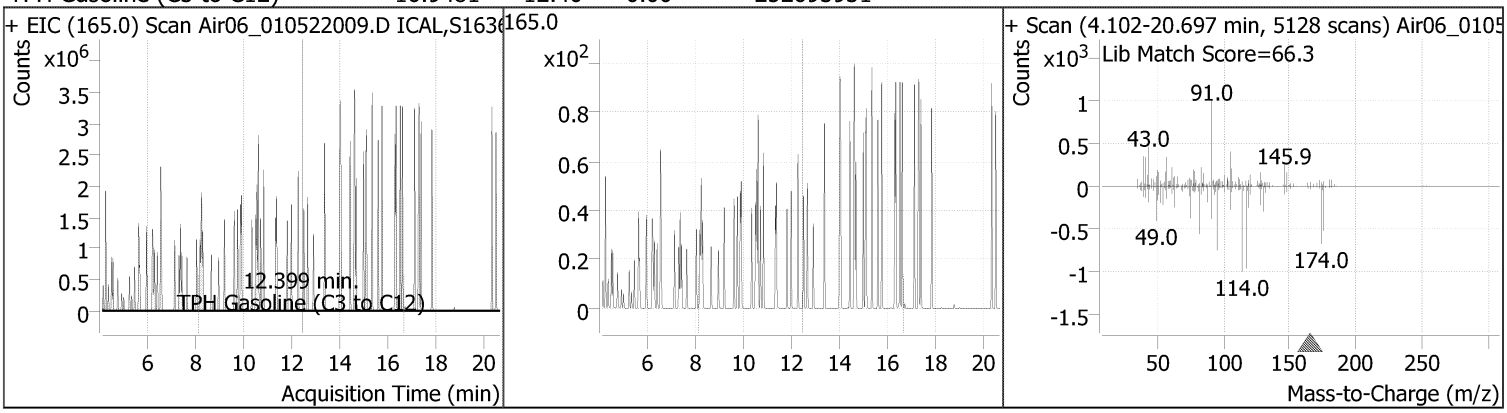

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 9.6972 | 11.99 | 0.00 | 612466 | 83.0 | 88.0 | 71.7 | 107.5 |
| | | | | | 61.0 | 68.4 | 56.8 | 85.2 |
| | | | | | 99.0 | 62.6 | 50.1 | 75.2 |
| | | | | | 85.0 | 56.9 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.1 | 6.3 | 9.5 |



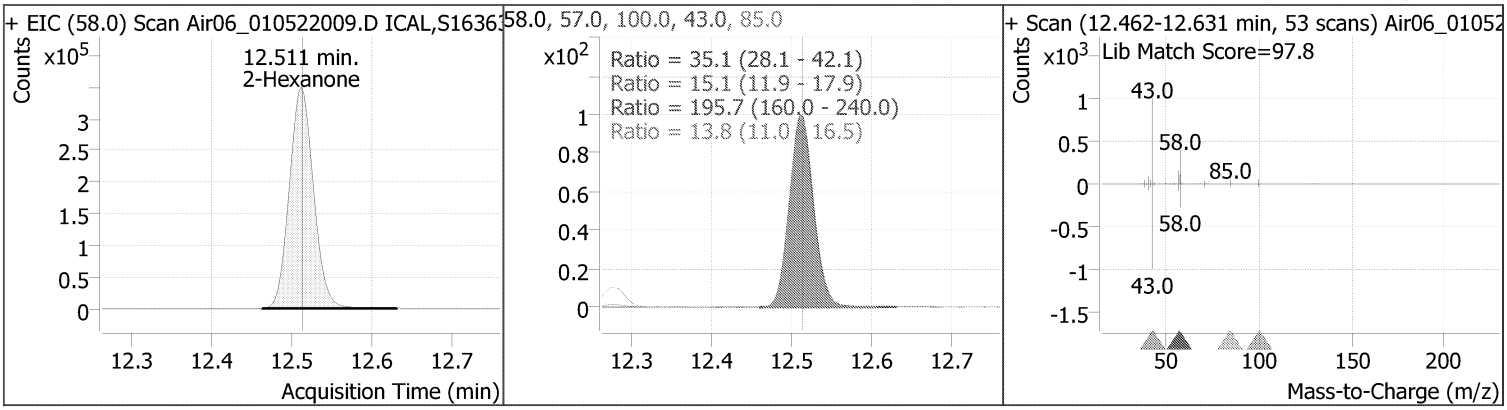
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 9.3817 | 12.28 | 0.00 | 1815680 | 92.0 | 58.3 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.8 | 10.2 | 15.4 |
| | | | | | 51.0 | 8.5 | 7.0 | 10.5 |



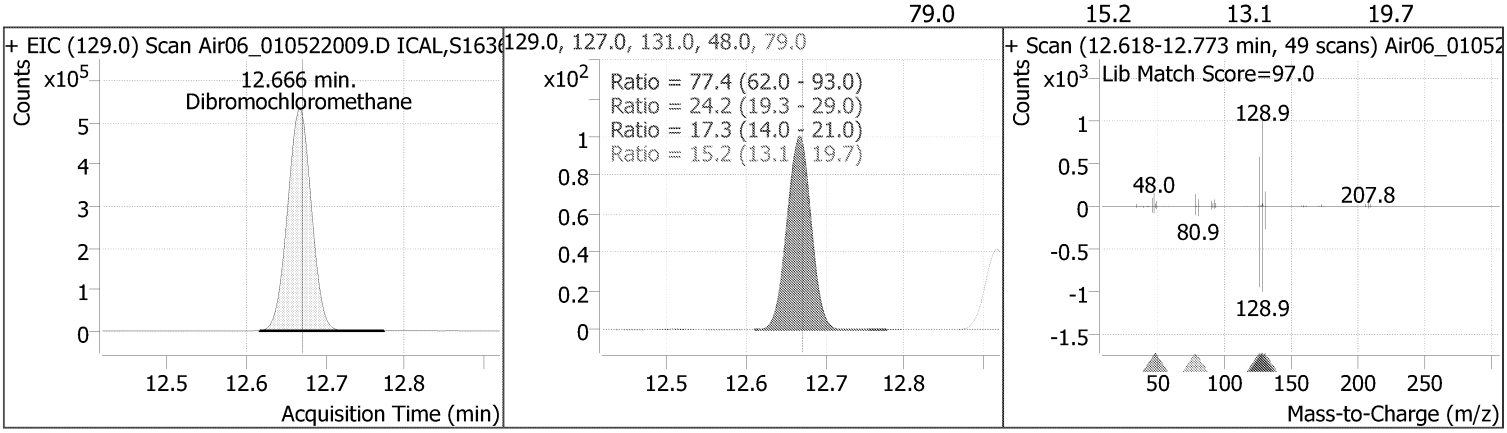

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 16.9481 | 12.40 | 0.00 | 252693931 | | | | |



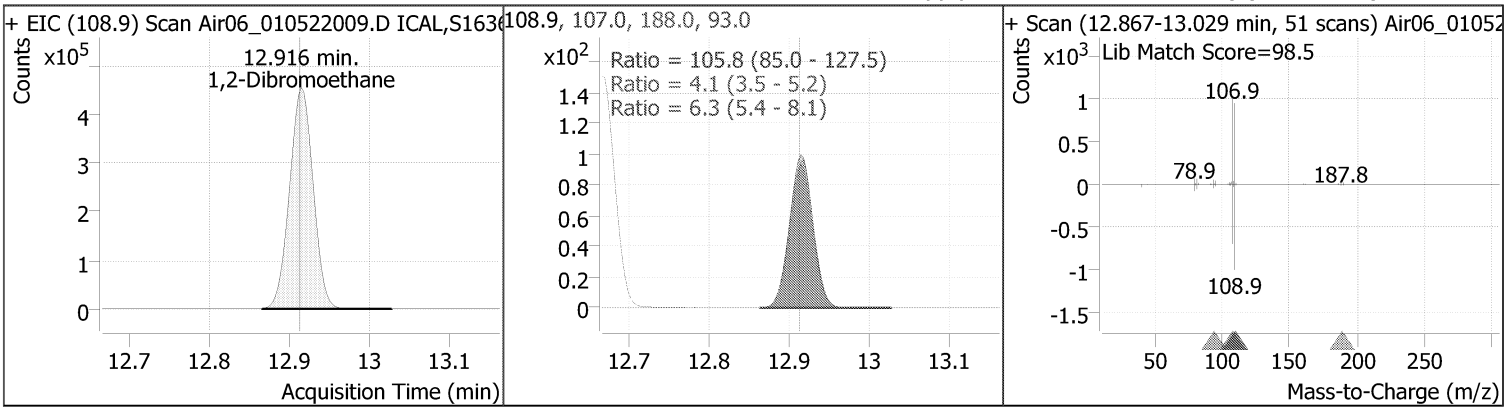

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 9.9672 | 12.51 | 0.00 | 738598 | 43.0 | 195.7 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.1 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.1 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.8 | 11.0 | 16.5 |



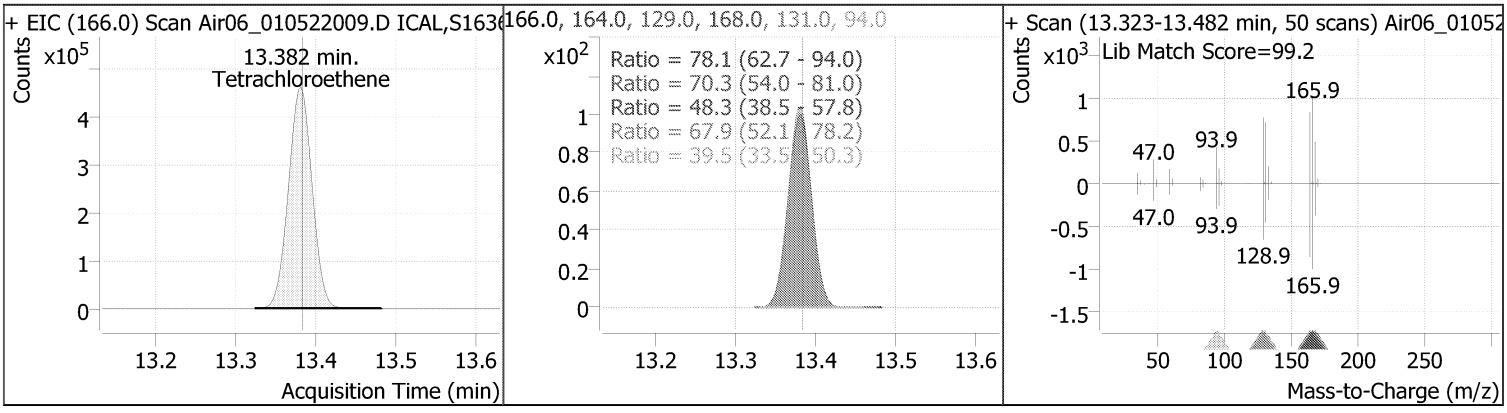
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 9.7462 | 12.67 | 0.00 | 1117512 | 127.0 | 77.4 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.2 | 19.3 | 29.0 |
| | | | | | 48.0 | 17.3 | 14.0 | 21.0 |
| | | | | | 79.0 | 15.2 | 13.1 | 19.7 |



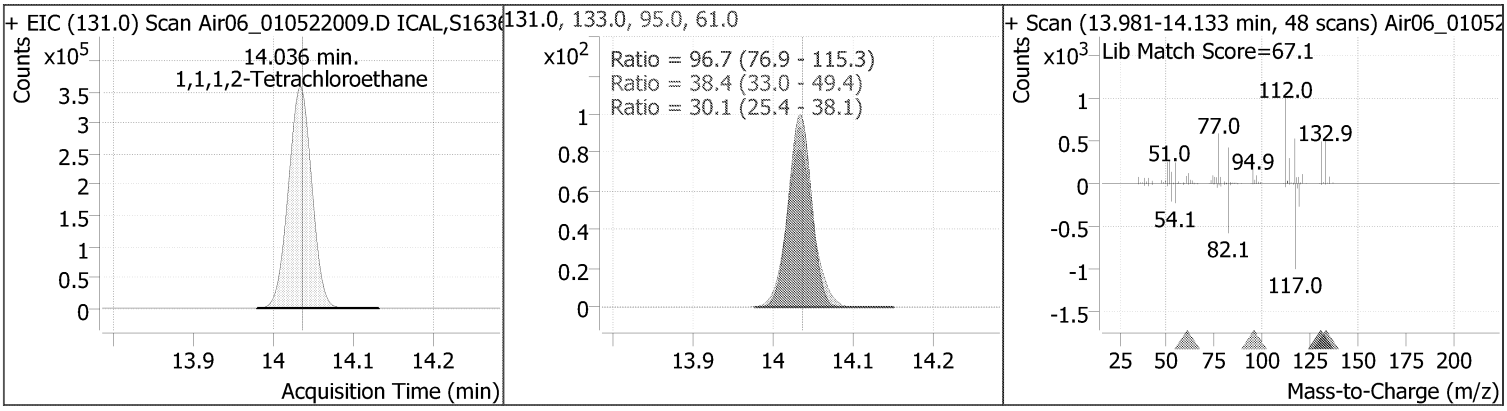

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 9.6377 | 12.92 | 0.00 | 938054 | 107.0 | 105.8 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.3 | 5.4 | 8.1 |
| | | | | | 188.0 | 4.1 | 3.5 | 5.2 |



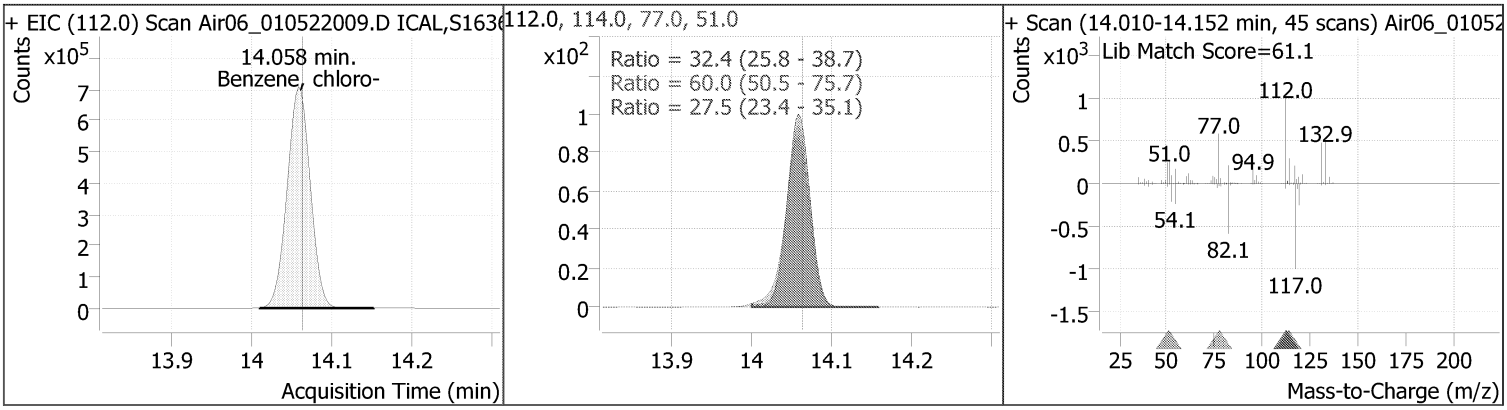

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 9.5152 | 13.38 | 0.00 | 949199 | 164.0 | 78.1 | 62.7 | 94.0 |
| | | | | | 129.0 | 70.3 | 54.0 | 81.0 |
| | | | | | 131.0 | 67.9 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.3 | 38.5 | 57.8 |
| | | | | | 94.0 | 39.5 | 33.5 | 50.3 |



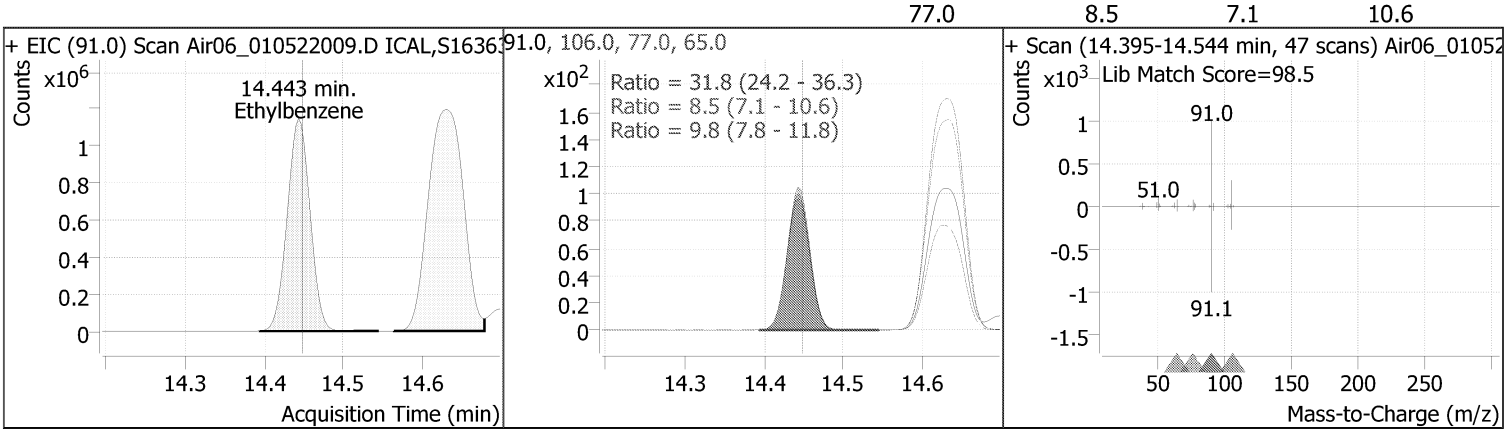
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 9.3781 | 14.04 | 0.00 | 731994 | 133.0 | 96.7 | 76.9 | 115.3 |
| | | | | | 95.0 | 38.4 | 33.0 | 49.4 |
| | | | | | 61.0 | 30.1 | 25.4 | 38.1 |



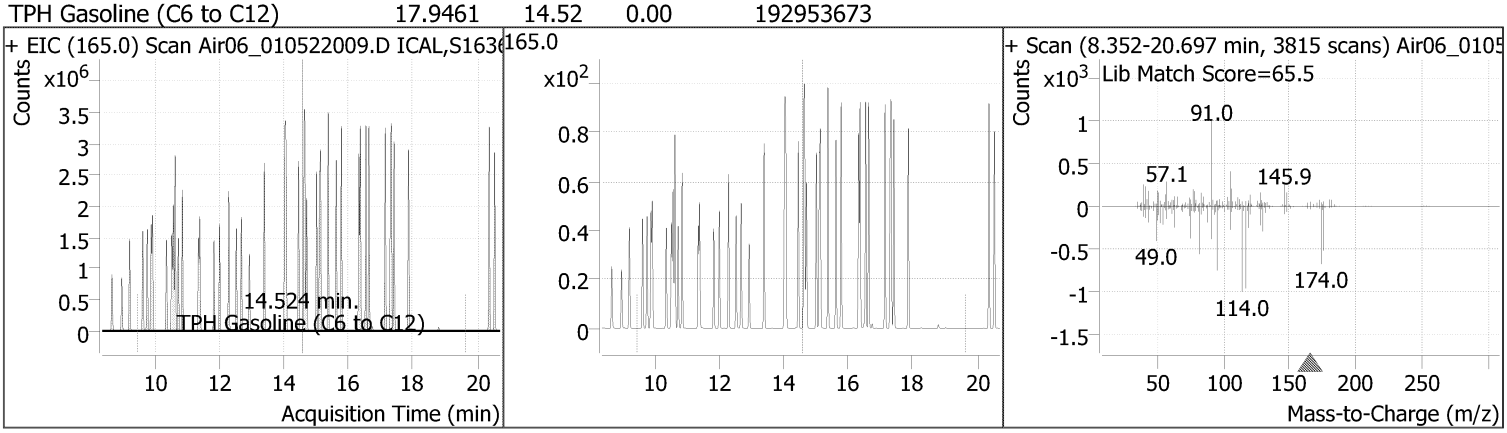

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 9.1828 | 14.06 | 0.00 | 1429447 | 77.0 | 60.0 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.4 | 25.8 | 38.7 |
| | | | | | 51.0 | 27.5 | 23.4 | 35.1 |



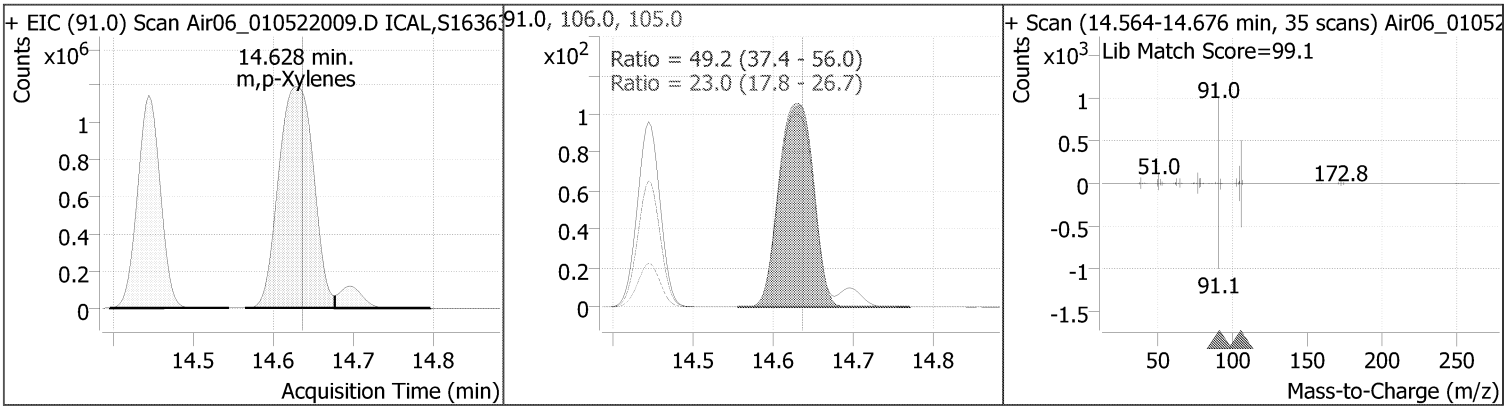

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 9.2450 | 14.44 | 0.00 | 2283988 | 106.0 | 31.8 | 24.2 | 36.3 |
| | | | | | 65.0 | 9.8 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.5 | 7.1 | 10.6 |



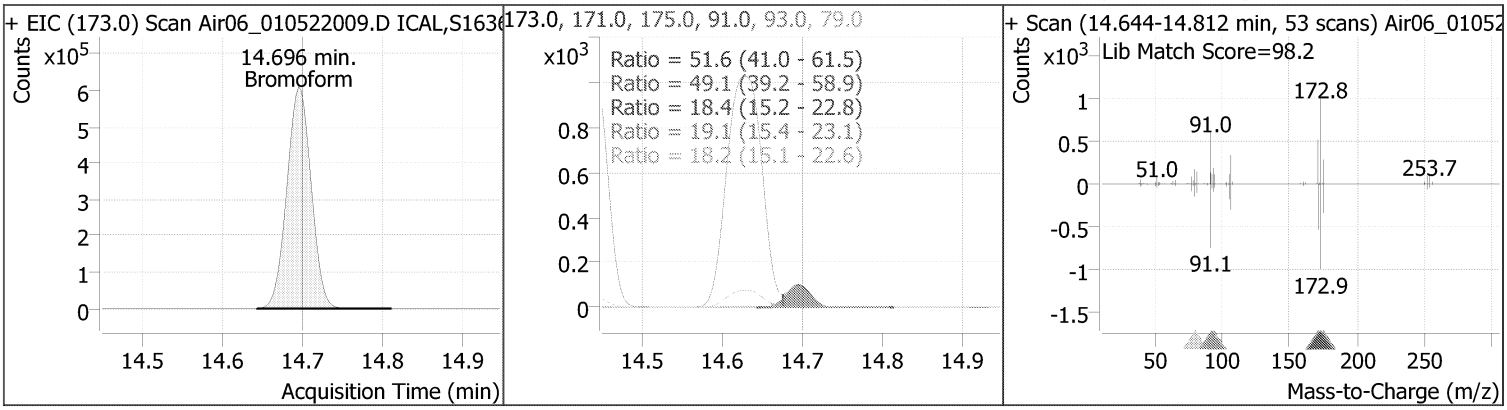
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 17.9461 | 14.52 | 0.00 | 192953673 | | | | |



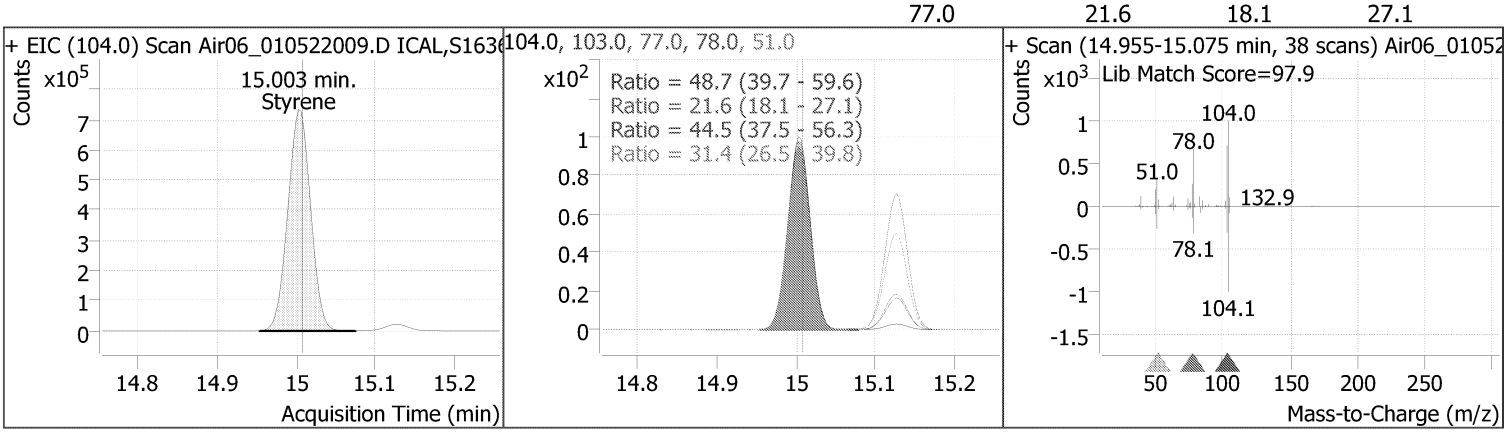

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 18.3408 | 14.63 | -0.01 | 3662891 | 106.0 | 49.2 | 37.4 | 56.0 |
| | | | | | 105.0 | 23.0 | 17.8 | 26.7 |



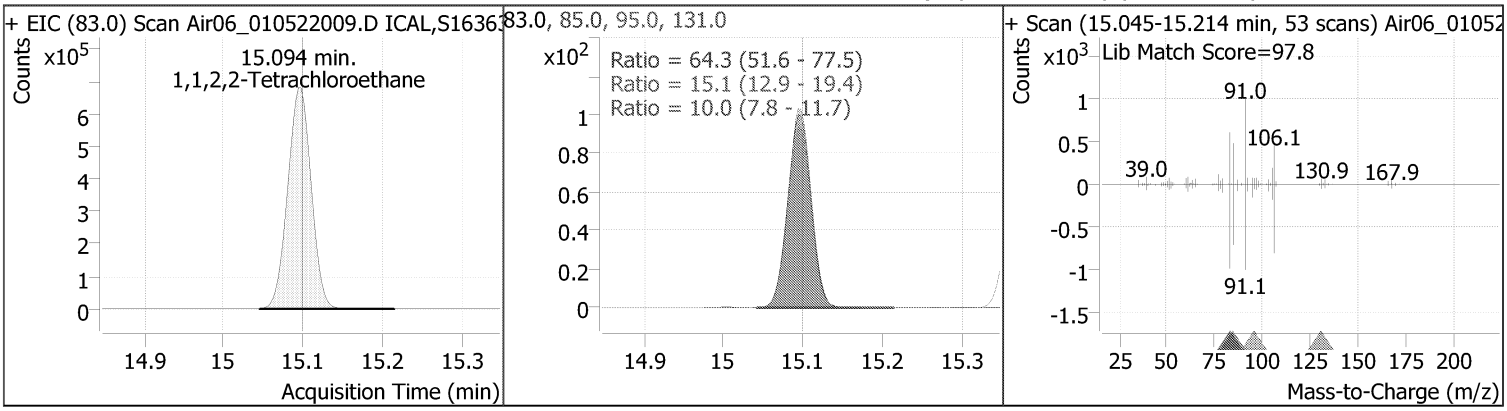

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 9.5617 | 14.70 | 0.00 | 1290463 | 171.0 | 51.6 | 41.0 | 61.5 |
| | | | | | 175.0 | 49.1 | 39.2 | 58.9 |
| | | | | | 93.0 | 19.1 | 15.4 | 23.1 |
| | | | | | 91.0 | 18.4 | 15.2 | 22.8 |
| | | | | | 79.0 | 18.2 | 15.1 | 22.6 |



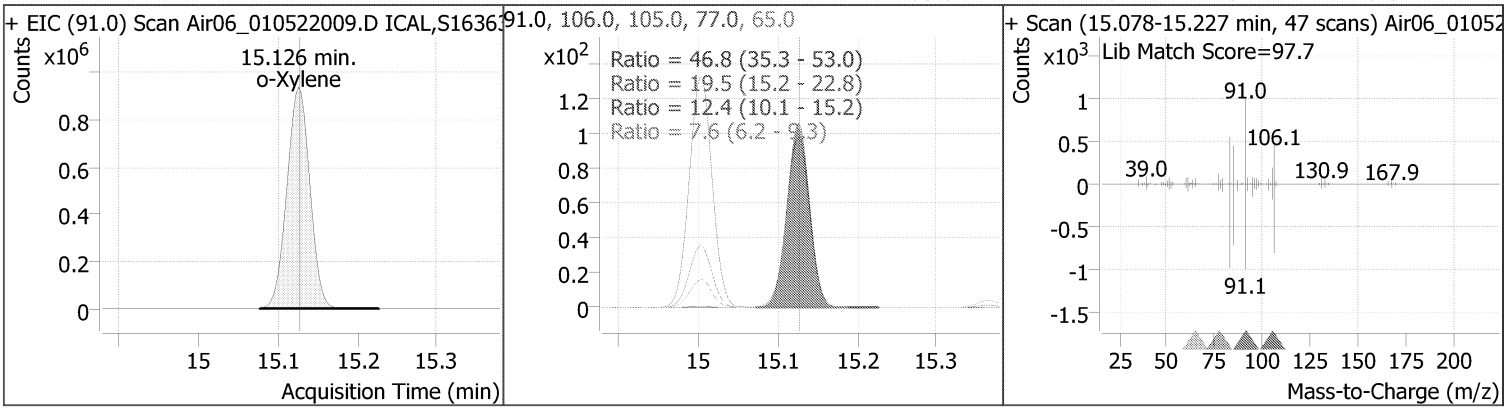
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 9.2740 | 15.00 | 0.00 | 1456070 | 103.0 | 48.7 | 39.7 | 59.6 |
| | | | | | 78.0 | 44.5 | 37.5 | 56.3 |
| | | | | | 51.0 | 31.4 | 26.5 | 39.8 |
| | | | | | 77.0 | 21.6 | 18.1 | 27.1 |



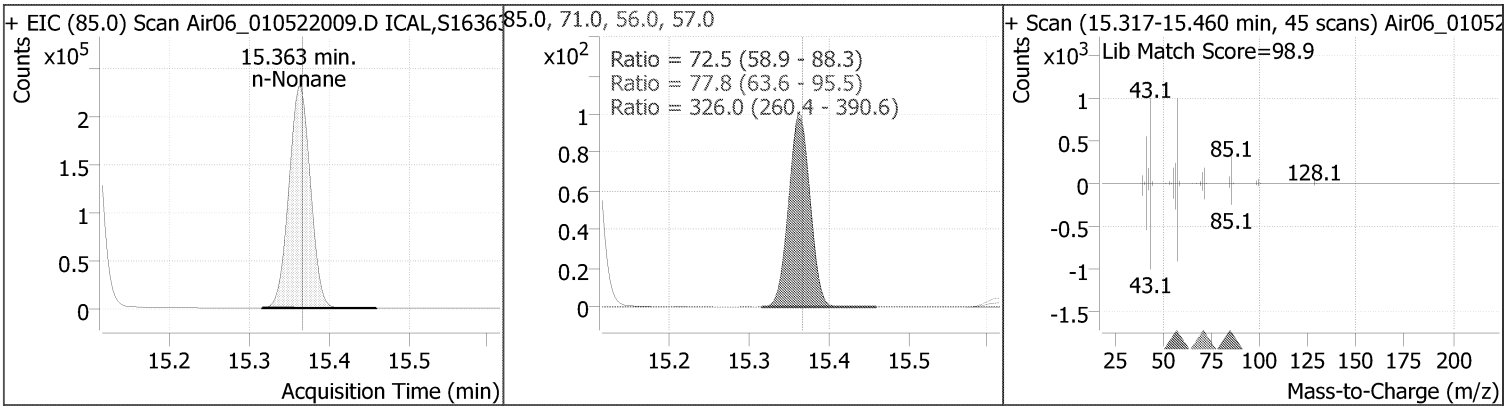

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 9.3299 | 15.09 | 0.00 | 1397521 | 85.0 | 64.3 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.1 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.0 | 7.8 | 11.7 |



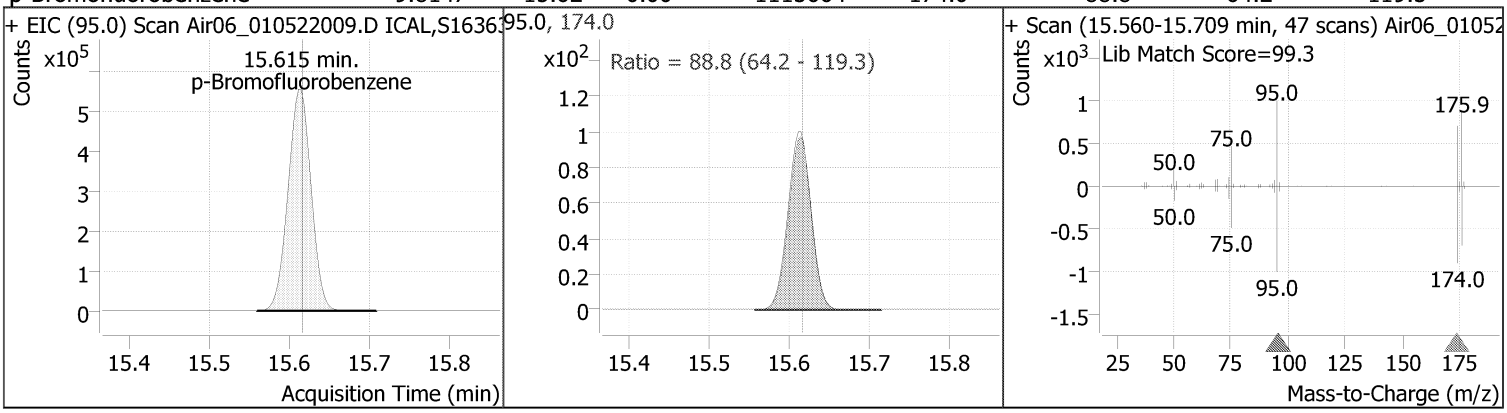

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 9.1618 | 15.13 | 0.00 | 1877697 | 106.0 | 46.8 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.5 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.4 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.6 | 6.2 | 9.3 |



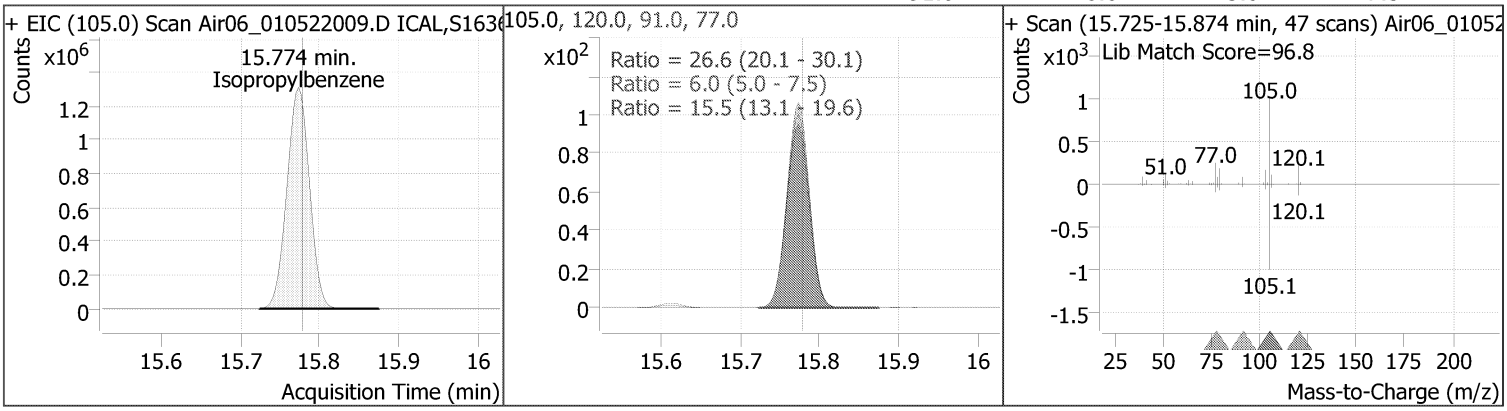
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 9.2297 | 15.36 | 0.00 | 435085 | 57.0 | 326.0 | 260.4 | 390.6 |
| | | | | | 56.0 | 77.8 | 63.6 | 95.5 |
| | | | | | 71.0 | 72.5 | 58.9 | 88.3 |



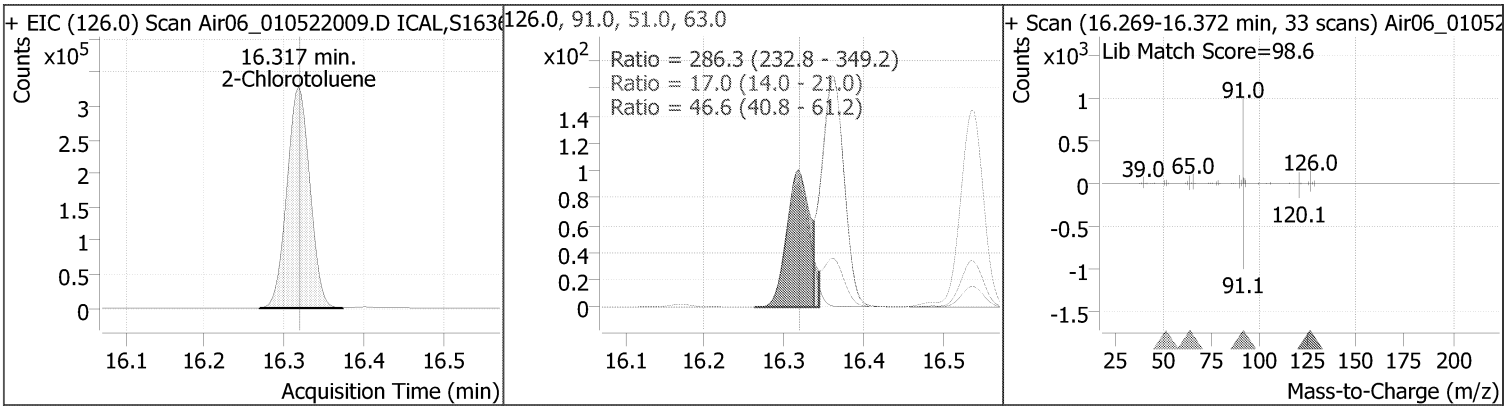

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 9.8147 | 15.62 | 0.00 | 1113664 | 174.0 | 88.8 | 64.2 | 119.3 |



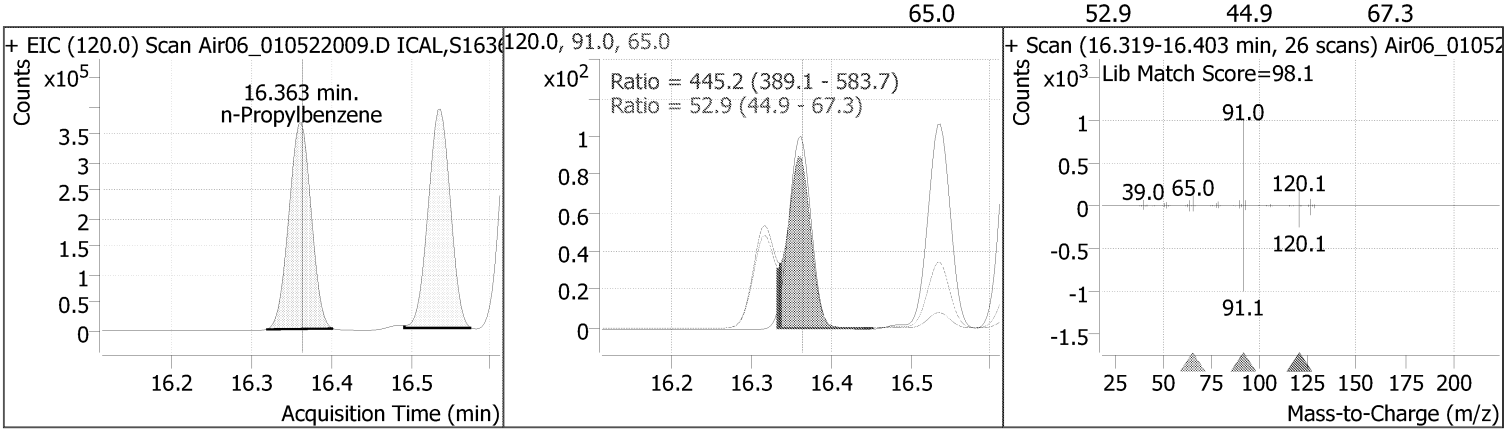

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 9.2211 | 15.77 | 0.00 | 2589335 | 120.0 | 26.6 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.5 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.0 | 5.0 | 7.5 |



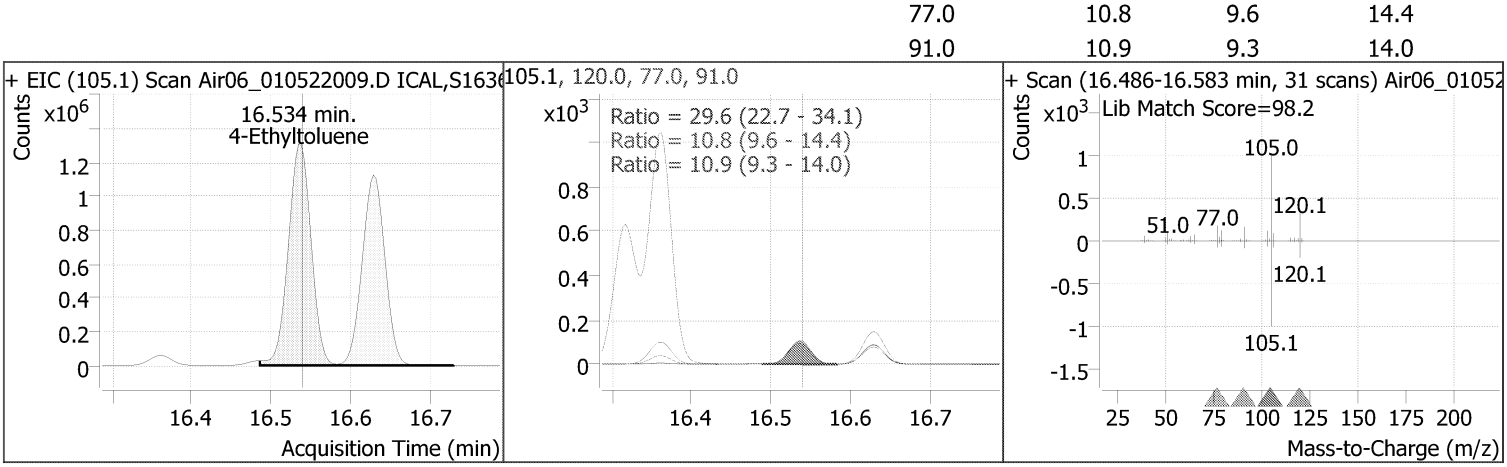
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 9.2443 | 16.32 | 0.00 | 658087 | 91.0 | 286.3 | 232.8 | 349.2 |
| | | | | | 63.0 | 46.6 | 40.8 | 61.2 |
| | | | | | 51.0 | 17.0 | 14.0 | 21.0 |



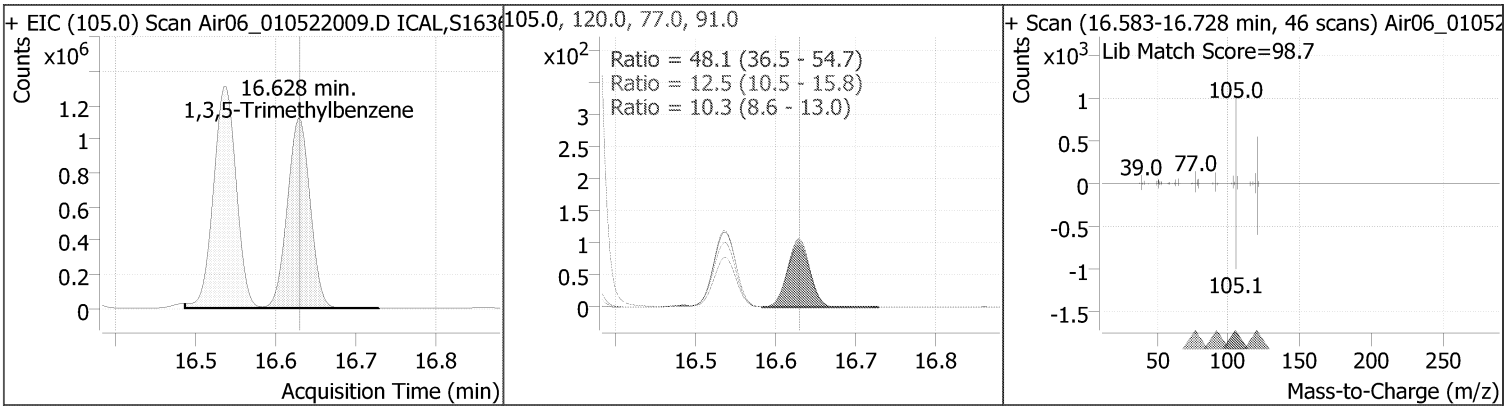

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 9.1854 | 16.36 | 0.00 | 718039 | 91.0 | 445.2 | 389.1 | 583.7 |
| | | | | | 65.0 | 52.9 | 44.9 | 67.3 |



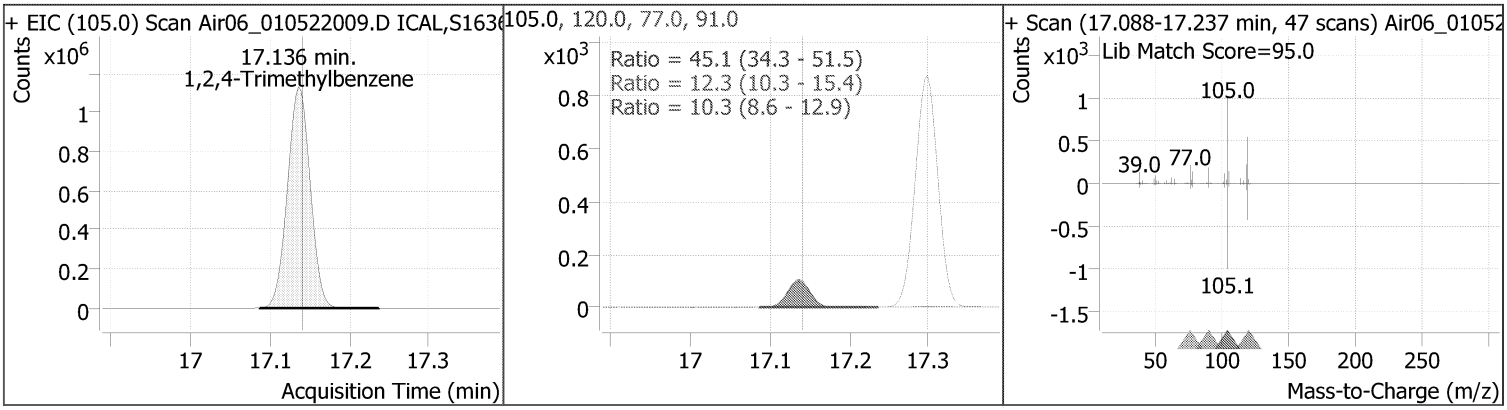

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 9.4032 | 16.53 | 0.00 | 2608489 | 120.0 | 29.6 | 22.7 | 34.1 |
| | | | | | 77.0 | 10.8 | 9.6 | 14.4 |
| | | | | | 91.0 | 10.9 | 9.3 | 14.0 |



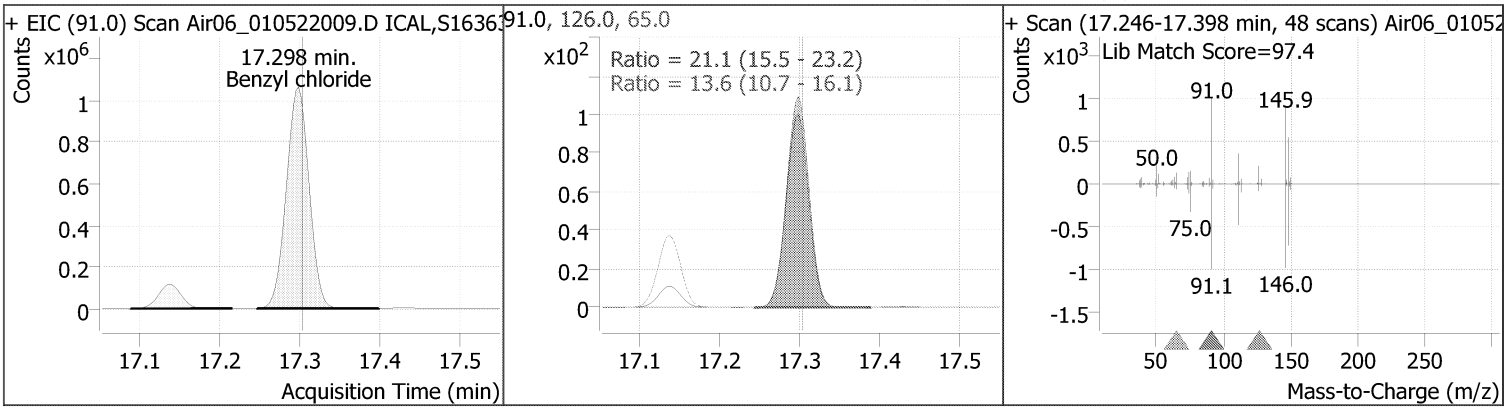
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 9.3171 | 16.63 | 0.00 | 2237079 | 120.0 | 48.1 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.5 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.3 | 8.6 | 13.0 |



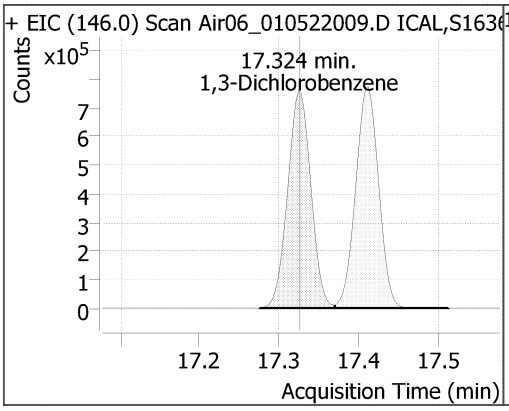

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 9.4546 | 17.14 | 0.00 | 2246149 | 120.0 | 45.1 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.3 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.3 | 8.6 | 12.9 |

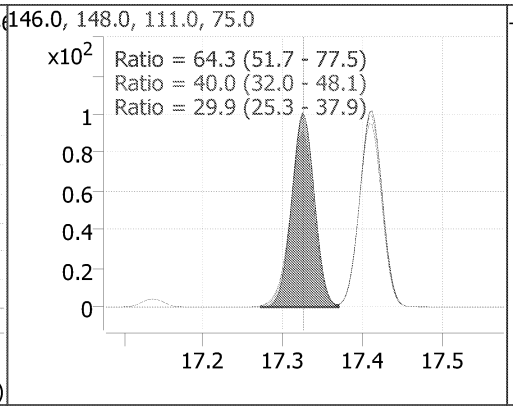


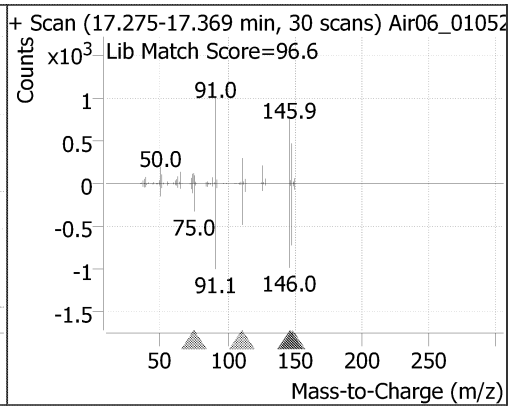

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 10.3440 | 17.30 | 0.00 | 2109006 | 126.0 | 21.1 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.6 | 10.7 | 16.1 |



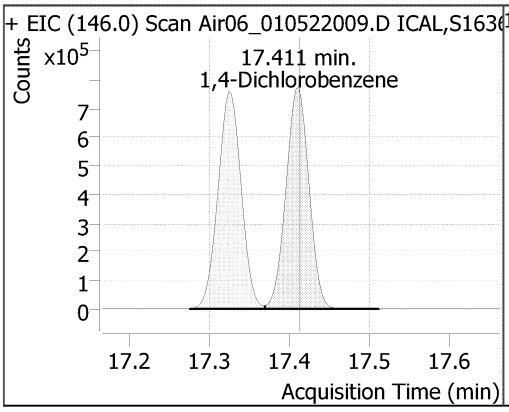
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 9.4051 | 17.32 | 0.00 | 1535242 | 148.0 | 64.3 | 51.7 | 77.5 |
| | | | | | 111.0 | 40.0 | 32.0 | 48.1 |
| | | | | | 75.0 | 29.9 | 25.3 | 37.9 |

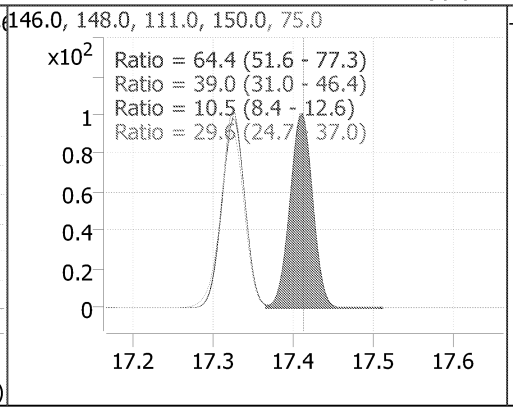


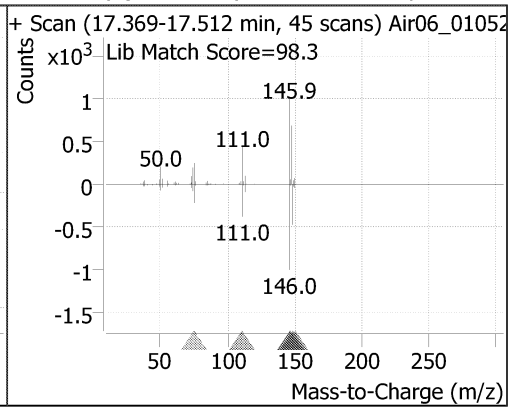



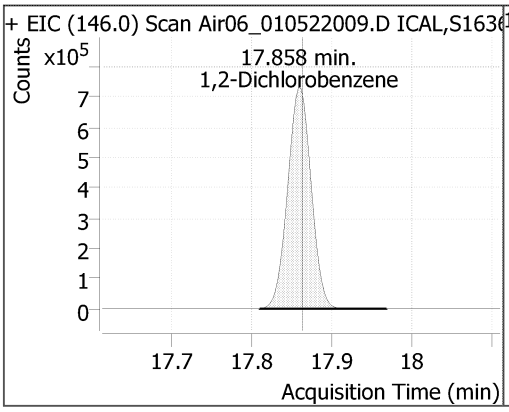

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 9.4077 | 17.41 | 0.00 | 1549511 | 148.0 | 64.4 | 51.6 | 77.3 |
| | | | | | 111.0 | 39.0 | 31.0 | 46.4 |
| | | | | | 75.0 | 29.6 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.5 | 8.4 | 12.6 |

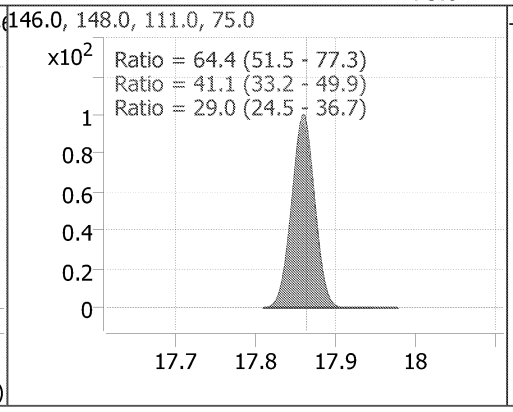


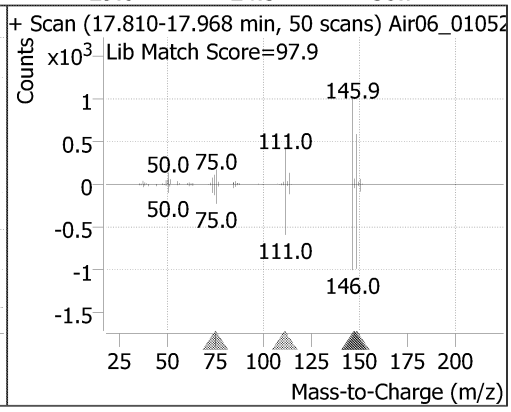



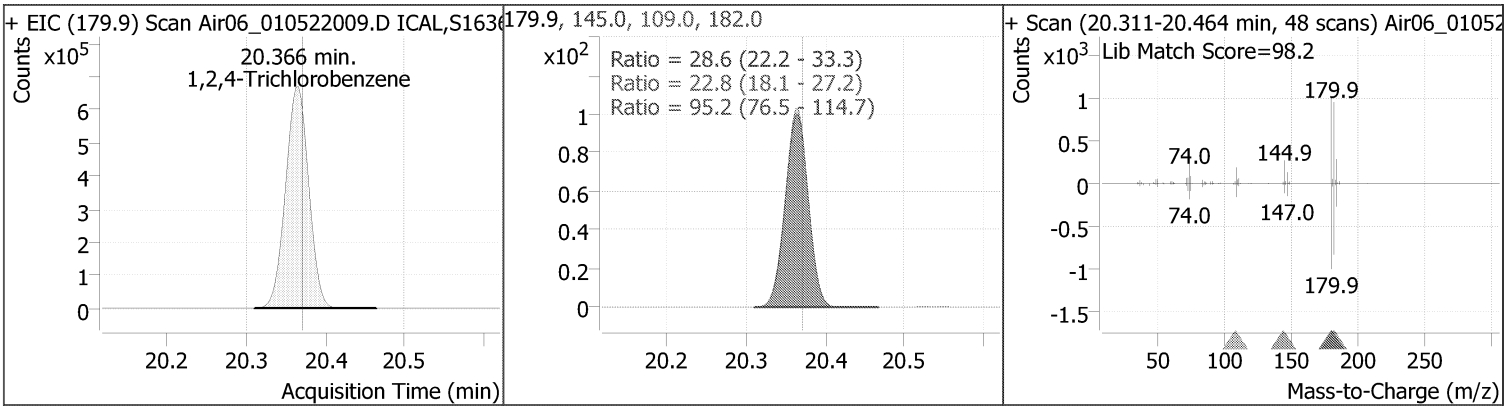

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 9.4901 | 17.86 | 0.00 | 1503691 | 148.0 | 64.4 | 51.5 | 77.3 |
| | | | | | 111.0 | 41.1 | 33.2 | 49.9 |
| | | | | | 75.0 | 29.0 | 24.5 | 36.7 |



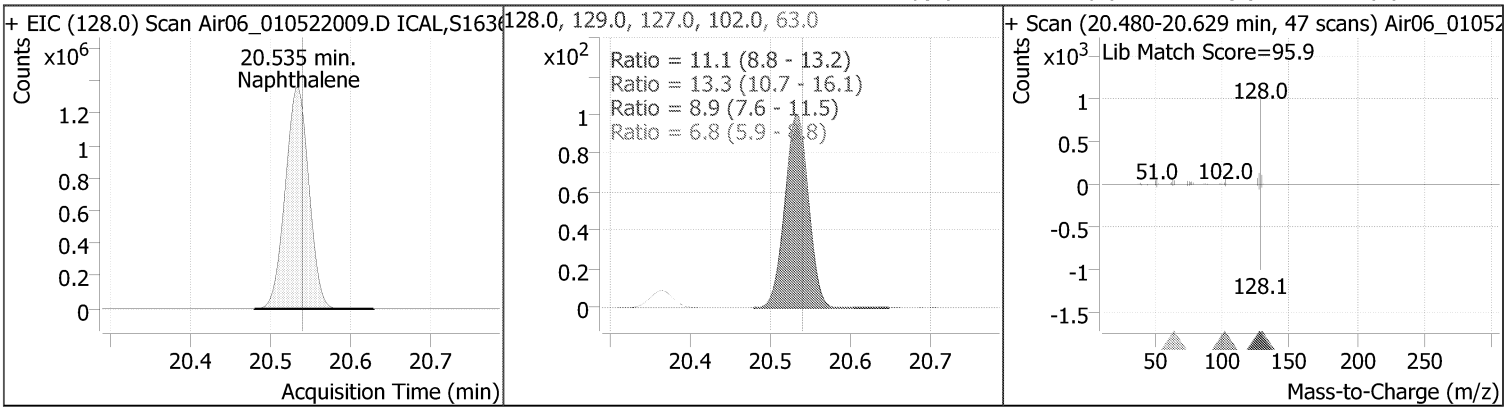



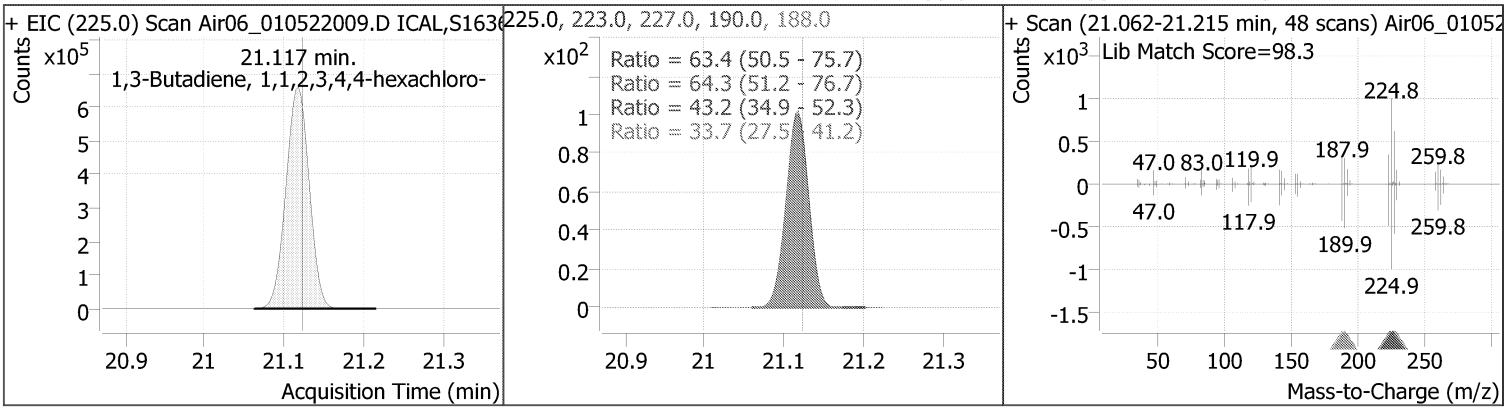
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 10.7909 | 20.37 | 0.00 | 1353906 | 182.0 | 95.2 | 76.5 | 114.7 |
| | | | | | 145.0 | 28.6 | 22.2 | 33.3 |
| | | | | | 109.0 | 22.8 | 18.1 | 27.2 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 10.7242 | 20.53 | 0.00 | 2801576 | 127.0 | 13.3 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.1 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.9 | 7.6 | 11.5 |
| | | | | | 63.0 | 6.8 | 5.9 | 8.8 |

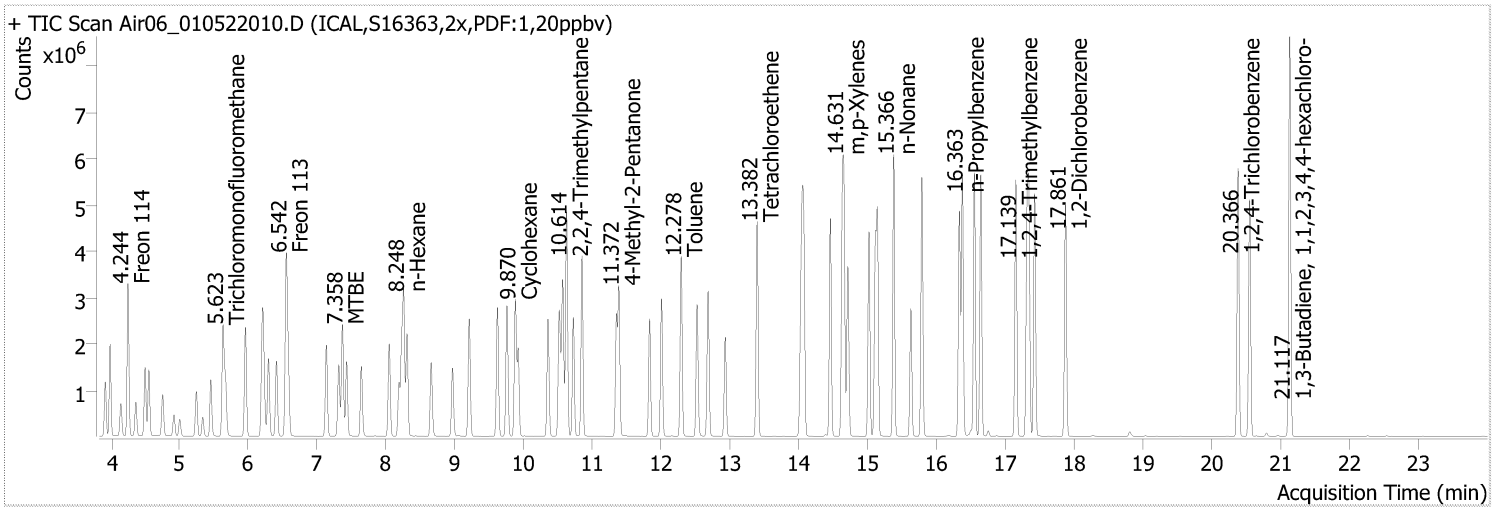



| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 9.5323 | 21.12 | 0.00 | 1334297 | 227.0 | 64.3 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.4 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.2 | 34.9 | 52.3 |
| | | | | | 188.0 | 33.7 | 27.5 | 41.2 |



# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522010.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 9:19:14 PM |
| Sample Name | ICAL,S16363,2x,PDF:1,20ppbv | Instrument | Air-MS-06 |
| Vial | 7 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x200mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 05 1236 TO15_220105.m.batch.bin | Last Calib Update | 1/5/2022 9:43:50 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



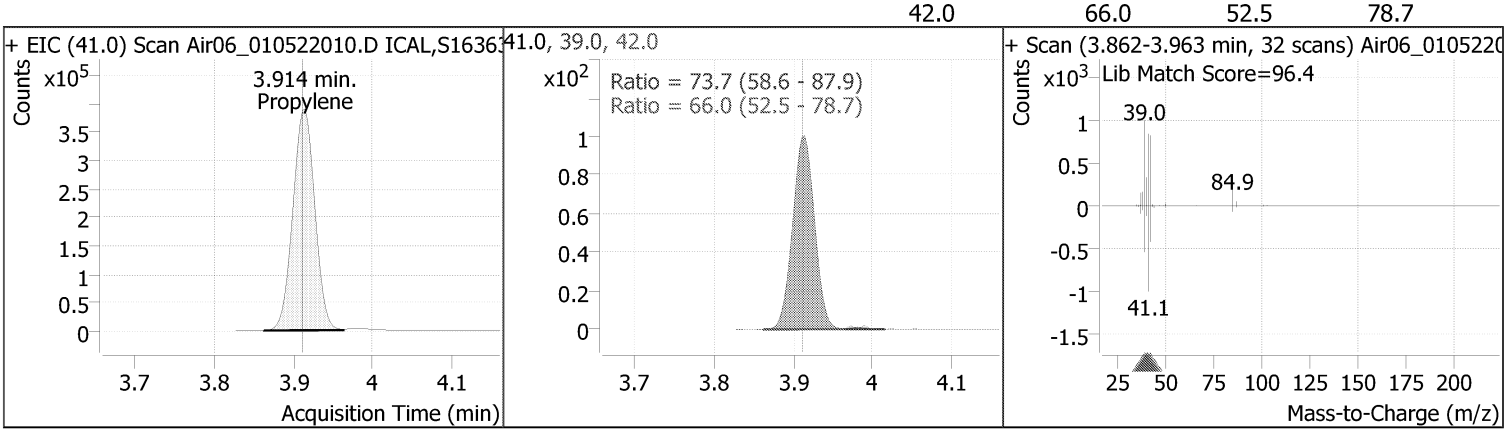

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 414259 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.912 | 114.0 | 1561051 | 10.0000 | nL/L | | 0.003 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 882097 | 10.0000 | nL/L | # | 0.000 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.615 | 95.0 | 1128693 | 9.6158 | nL/L | | 0.000 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 96.16% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.914 | 41.0 | 751175 | 18.1668 | nL/L | | 99 |
| T Freon 12 | 3.982 | 85.0 | 1864647 | 16.8681 | nL/L | | 99 |
| T Chloromethane | 4.138 | 50.0 | 868933 | 16.7476 | nL/L | | 100 |
| T Freon 114 | 4.244 | 135.0 | 1312406 | 16.8183 | nL/L | | 97 |
| T Vinyl Chloride | 4.354 | 62.0 | 868968 | 16.7313 | nL/L | | 99 |
| T 1,3-Butadiene | 4.490 | 54.0 | 756325 | 17.0328 | nL/L | | 96 |
| T Butane | 4.545 | 43.0 | 1434554 | 16.5741 | nL/L | | 98 |
| T Bromomethane | 4.746 | 96.0 | 643688 | 16.8497 | nL/L | | 99 |
| T Chloroethane | 4.911 | 64.0 | 430203 | 16.8172 | nL/L | | 99 |
| T Ethanol | 4.995 | 45.0 | 451135 | 17.6803 | nL/L | | 99 |
| T Vinyl bromide | 5.235 | 108.0 | 757209 | 16.8830 | nL/L | | 99 |
| T Acrolein | 5.329 | 56.0 | 381893 | 16.9952 | nL/L | | 99 |
| T Acetone | 5.445 | 58.0 | 464665 | 17.4795 | nL/L | | 98 |
| T Trichloromonofluoromethane | 5.623 | 101.0 | 2156674 | 16.4953 | nL/L | | 100 |
| T Isopropanol (IPA) | 5.659 | 45.0 | 1731658 | 18.2727 | nL/L | | 99 |
| T n-Pentane | 5.947 | 43.0 | 1778207 | 16.6540 | nL/L | | 100 |
| T 1,1-Dichloroethene | 6.193 | 61.0 | 1602641 | 16.5071 | nL/L | | 98 |
| T Tert-butyl alcohol (TBA) | 6.212 | 59.0 | 1894584 | 17.2088 | nL/L | | 99 |
| T Methylene Chloride | 6.283 | 84.0 | 738087 | 15.6239 | nL/L | | 97 |
| T 3-Chloropropene | 6.400 | 76.0 | 362474 | 16.7624 | nL/L | | 100 |
| T Freon 113 | 6.542 | 101.0 | 1730028 | 16.4724 | nL/L | | 99 |
| T Carbon Disulfide | 6.572 | 76.0 | 2247391 | 16.5355 | nL/L | | 100 |

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.125 | 61.0 | 1359859 | 16.7551 | nL/L | 99 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 1675208 | 16.8127 | nL/L | 100 |
| T MTBE | 7.358 | 73.0 | 2211337 | 16.7403 | nL/L | 99 |
| T Vinyl Acetate | 7.420 | 43.0 | 2657354 | 15.1157 | nL/L | 99 |
| T 2-Butanone | 7.630 | 43.0 | 2143106 | 16.6321 | nL/L | 97 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 1370866 | 16.7070 | nL/L | 98 |
| T Ethyl Acetate | 8.216 | 61.0 | 342393 | 16.9842 | nL/L | 91 |
| T n-Hexane | 8.248 | 57.0 | 1548467 | 16.6674 | nL/L | 98 |
| T Chloroform | 8.293 | 83.0 | 1749067 | 16.6740 | nL/L | 99 |
| T Tetrahydrofuran | 8.646 | 72.0 | 388690 | 16.8560 | nL/L | 95 |
| T 1,2-Dichloroethane | 8.957 | 62.0 | 1279630 | 16.6909 | nL/L | 99 |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 1708825 | 16.8613 | nL/L | 98 |
| T Benzene | 9.608 | 78.0 | 2518223 | 16.6575 | nL/L | 99 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 1828332 | 16.9044 | nL/L | 99 |
| T Cyclohexane | 9.870 | 84.0 | 1039248 | 16.4443 | nL/L | 97 |
| T 1,2-Dichloropropane | 10.342 | 63.0 | 1119530 | 17.1882 | nL/L | 98 |
| T Methane, bromodichloro- | 10.504 | 83.0 | 1814320 | 17.0074 | nL/L | 99 |
| T 1,4-Dioxane | 10.530 | 88.0 | 572314 | 16.7846 | nL/L | 99 |
| T Trichloroethene | 10.559 | 132.0 | 1117312 | 16.7743 | nL/L | 97 |
| T 2,2,4-Trimethylpentane | 10.614 | 57.0 | 4913933 | 16.4364 | nL/L | 100 |
| T Methyl methacrylate | 10.711 | 69.0 | 956622 | 17.2960 | nL/L | 100 |
| T n-Heptane | 10.837 | 71.0 | 865112 | 16.8361 | nL/L | 96 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 359323 | 17.3891 | nL/L | 91 |
| T 4-Methyl-2-Pentanone | 11.372 | 58.0 | 967251 | 16.9042 | nL/L | 97 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 370285 | 17.5021 | nL/L | 90 |
| T 1,1,2-Trichloroethane | 11.993 | 97.0 | 1067083 | 17.1864 | nL/L | 99 |
| T Toluene | 12.278 | 91.0 | 3162872 | 16.6915 | nL/L | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 439198014 | 29.5291 | nL/L | 100 |
| T 2-Hexanone | 12.508 | 58.0 | 1292352 | 17.6708 | nL/L | 97 |
| T Dibromochloromethane | 12.669 | 129.0 | 1949174 | 17.2795 | nL/L | 100 |
| T 1,2-Dibromoethane | 12.919 | 108.9 | 1635691 | 17.1062 | nL/L | 100 |
| T Tetrachloroethene | 13.382 | 166.0 | 1655761 | 16.9208 | nL/L | 98 |
| T 1,1,1,2-Tetrachloroethane | 14.035 | 131.0 | 1276179 | 16.2019 | nL/L | 98 |
| T Benzene, chloro- | 14.061 | 112.0 | 2482494 | 15.8483 | nL/L | 97 |
| T Ethylbenzene | 14.443 | 91.0 | 3968750 | 15.9512 | nL/L | 98 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 336065664 | 31.1326 | nL/L | 100 |
| T m,p-Xylenes | 14.631 | 91.0 | 6290741 | 31.3470 | nL/L | 96 |
| T Bromoform | 14.699 | 173.0 | 2257556 | 16.5317 | nL/L | 99 |
| T Styrene | 15.006 | 104.0 | 2544476 | 16.0759 | nL/L | 97 |
| T 1,1,2,2-Tetrachloroethane | 15.097 | 83.0 | 2424959 | 16.0608 | nL/L | 99 |
| T o-Xylene | 15.129 | 91.0 | 3242487 | 15.7366 | nL/L | 97 |
| T n-Nonane | 15.366 | 85.0 | 755815 | 15.9240 | nL/L | 99 |
| T Isopropylbenzene | 15.773 | 105.0 | 4468556 | 15.8181 | nL/L | 98 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 1146853 | 15.9913 | nL/L | 93 |
| T n-Propylbenzene | 16.363 | 120.0 | 1249473 | 15.8801 | nL/L | 86 |
| T 4-Ethyltoluene | 16.537 | 105.1 | 4446578 | 15.9202 | nL/L | 97 |
| T 1,3,5-Trimethylbenzene | 16.631 | 105.0 | 3851242 | 15.9296 | nL/L | 97 |
| T 1,2,4-Trimethylbenzene | 17.139 | 105.0 | 3872329 | 16.1577 | nL/L | 97 |
| T Benzyl chloride | 17.301 | 91.0 | 3726690 | 17.8688 | nL/L | 97 |
| T 1,3-Dichlorobenzene | 17.327 | 146.0 | 2649838 | 16.0995 | nL/L | 99 |
| T 1,4-Dichlorobenzene | 17.411 | 146.0 | 2693488 | 16.2048 | nL/L | 99 |
| T 1,2-Dichlorobenzene | 17.861 | 146.0 | 2610654 | 16.3125 | nL/L | 99 |
| T 1,2,4-Trichlorobenzene | 20.366 | 179.9 | 2444730 | 18.8893 | nL/L | 100 |
| T Naphthalene | 20.535 | 128.0 | 5021259 | 18.6675 | nL/L | 99 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.117 | 225.0 | 2333906 | 16.4848 | nL/L | 100 |

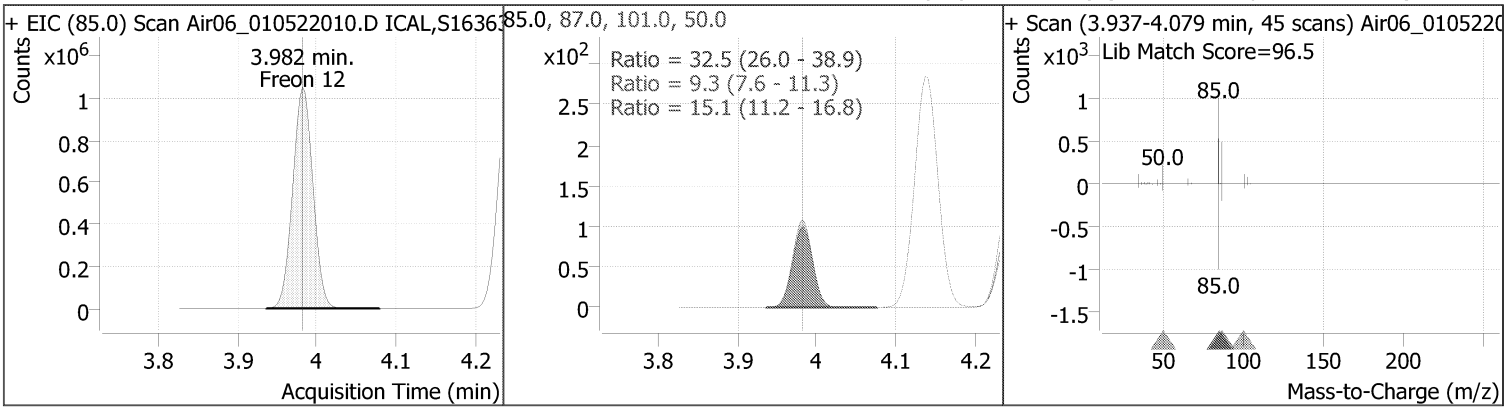
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

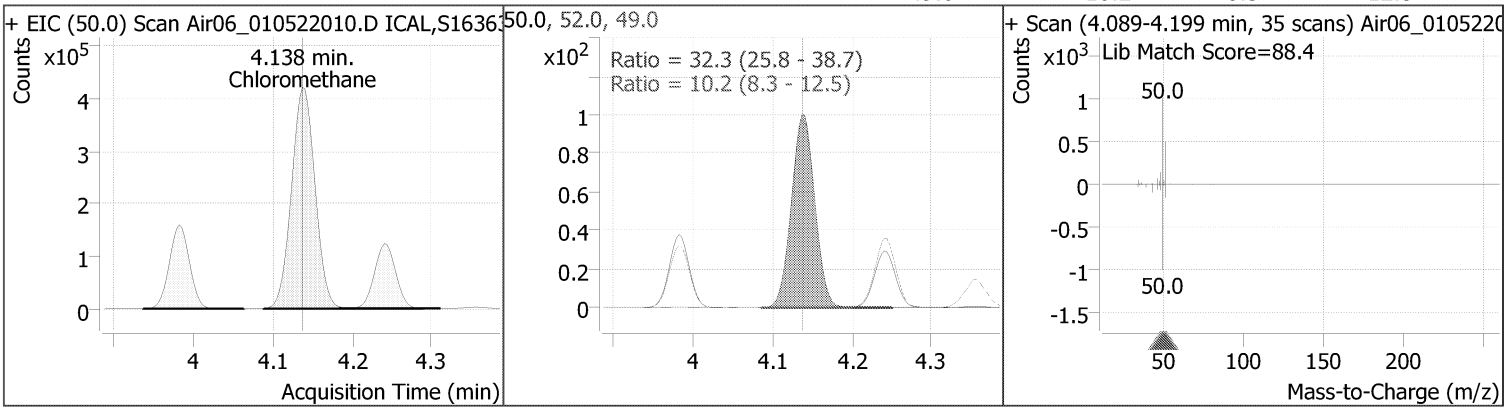
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 18.1668 | 3.91 | 0.01 | 751175 | 39.0 | 73.7 | 58.6 | 87.9 |
| | | | | | 42.0 | 66.0 | 52.5 | 78.7 |



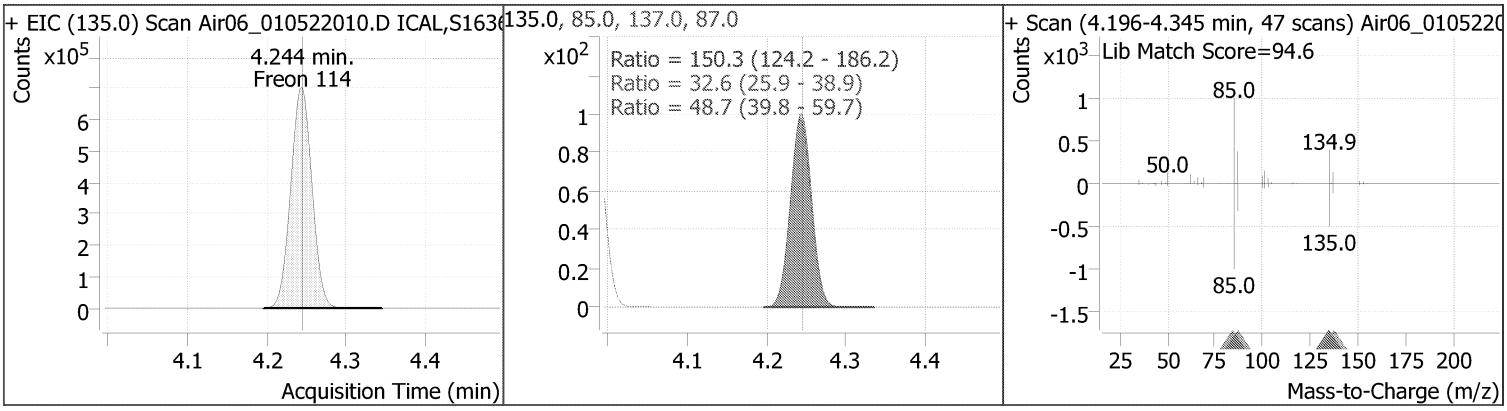

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 16.8681 | 3.98 | 0.00 | 1864647 | 87.0 | 32.5 | 26.0 | 38.9 |
| | | | | | 50.0 | 15.1 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.3 | 7.6 | 11.3 |



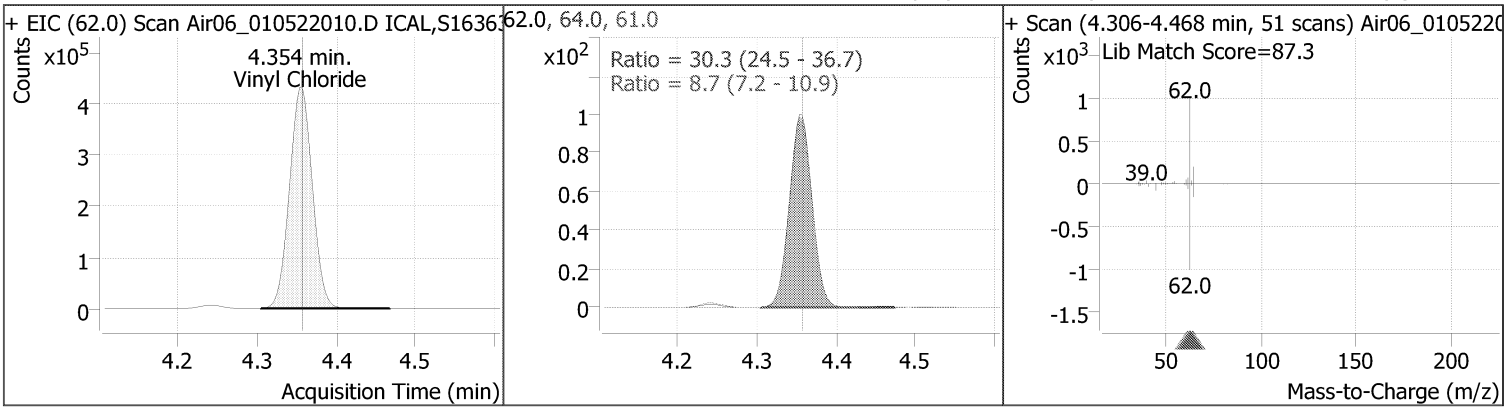

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 16.7476 | 4.14 | 0.00 | 868933 | 52.0 | 32.3 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.2 | 8.3 | 12.5 |



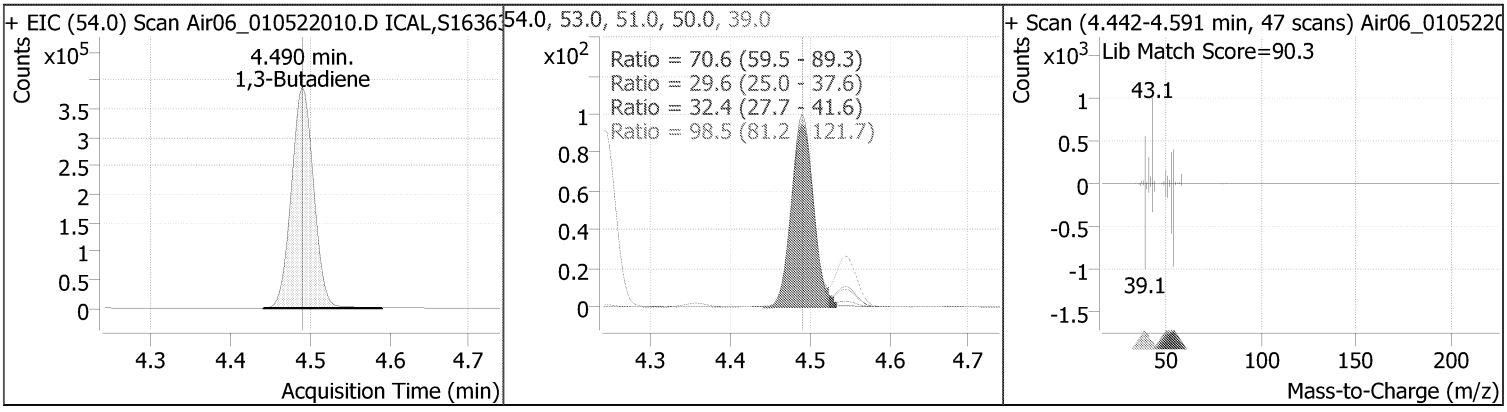
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 16.8183 | 4.24 | 0.00 | 1312406 | 85.0 | 150.3 | 124.2 | 186.2 |
| | | | | | 87.0 | 48.7 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.6 | 25.9 | 38.9 |



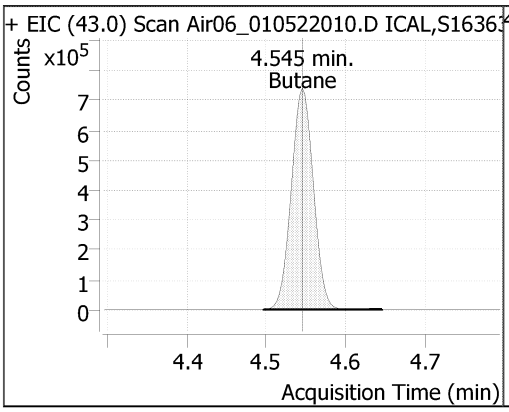

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 16.7313 | 4.35 | 0.00 | 868968 | 64.0 | 30.3 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.7 | 7.2 | 10.9 |

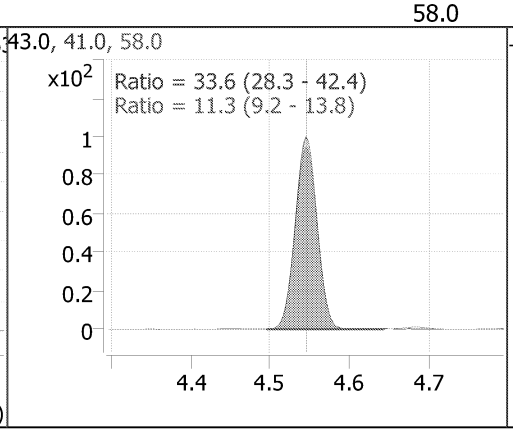


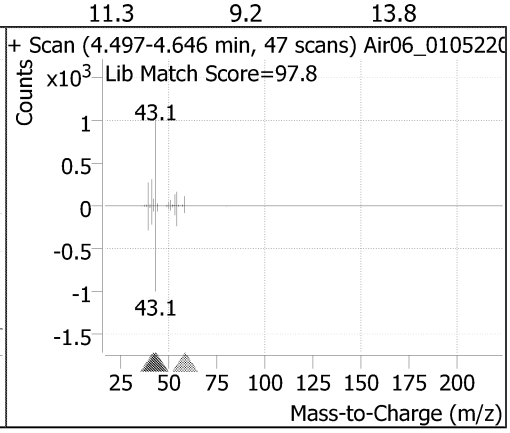

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 17.0328 | 4.49 | 0.00 | 756325 | 39.0 | 98.5 | 81.2 | 121.7 |
| | | | | | 53.0 | 70.6 | 59.5 | 89.3 |
| | | | | | 50.0 | 32.4 | 27.7 | 41.6 |
| | | | | | 51.0 | 29.6 | 25.0 | 37.6 |



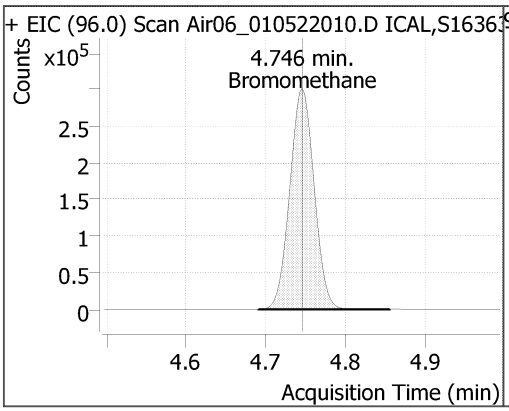
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 16.5741 | 4.55 | 0.00 | 1434554 | 41.0 | 33.6 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.3 | 9.2 | 13.8 |

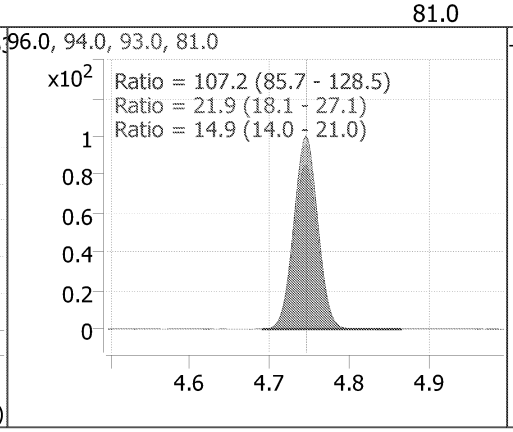


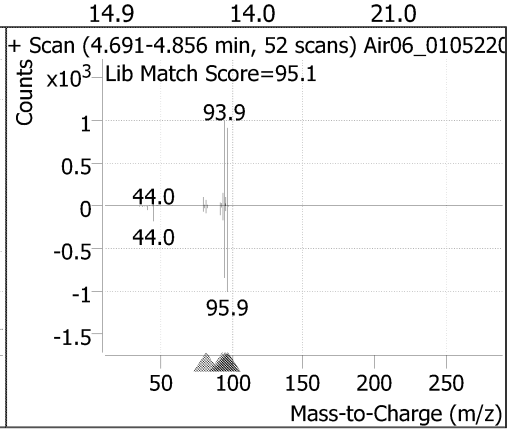



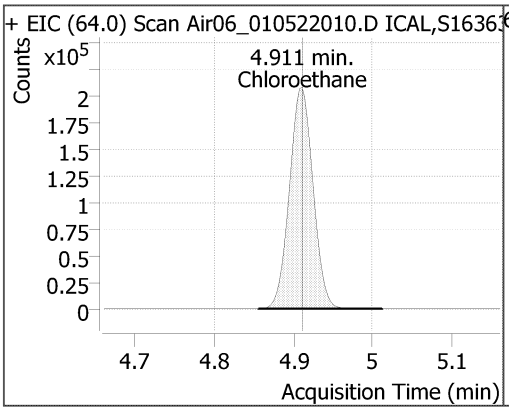

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 16.8497 | 4.75 | 0.00 | 643688 | 94.0 | 107.2 | 85.7 | 128.5 |
| | | | | | 93.0 | 21.9 | 18.1 | 27.1 |
| | | | | | 81.0 | 14.9 | 14.0 | 21.0 |

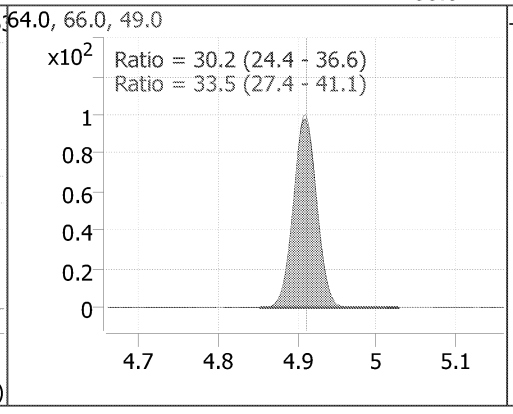


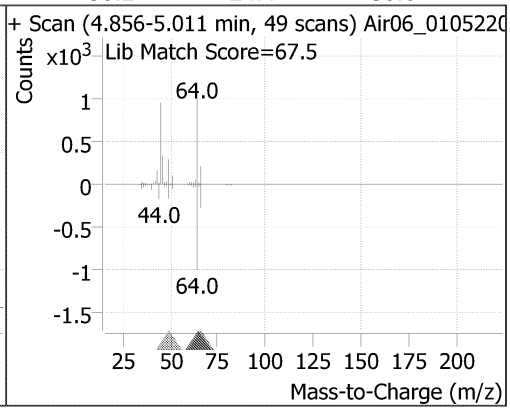



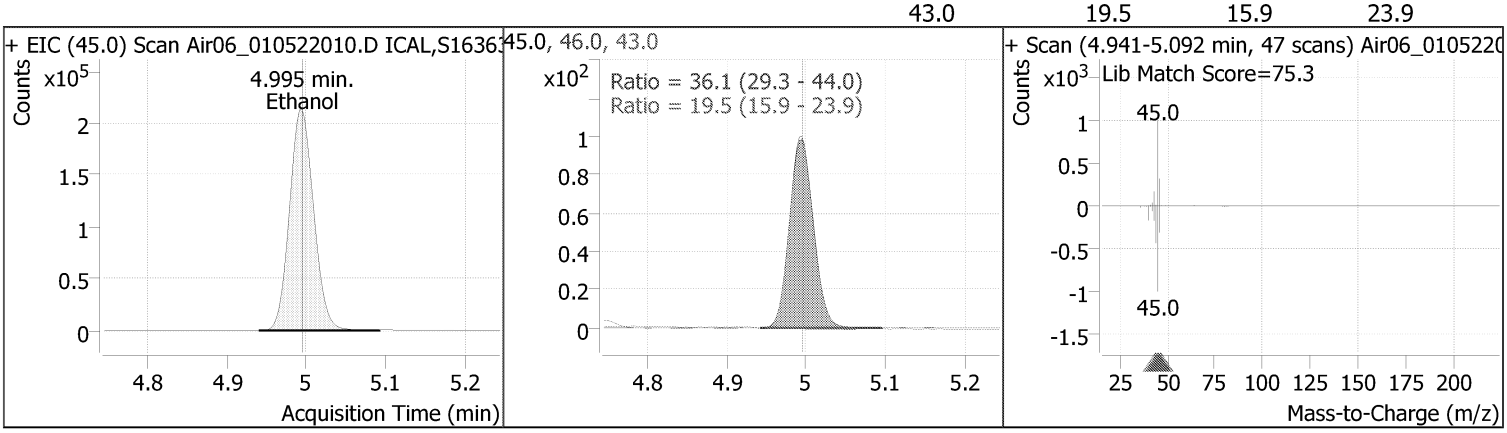

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 16.8172 | 4.91 | 0.00 | 430203 | 49.0 | 33.5 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.2 | 24.4 | 36.6 |



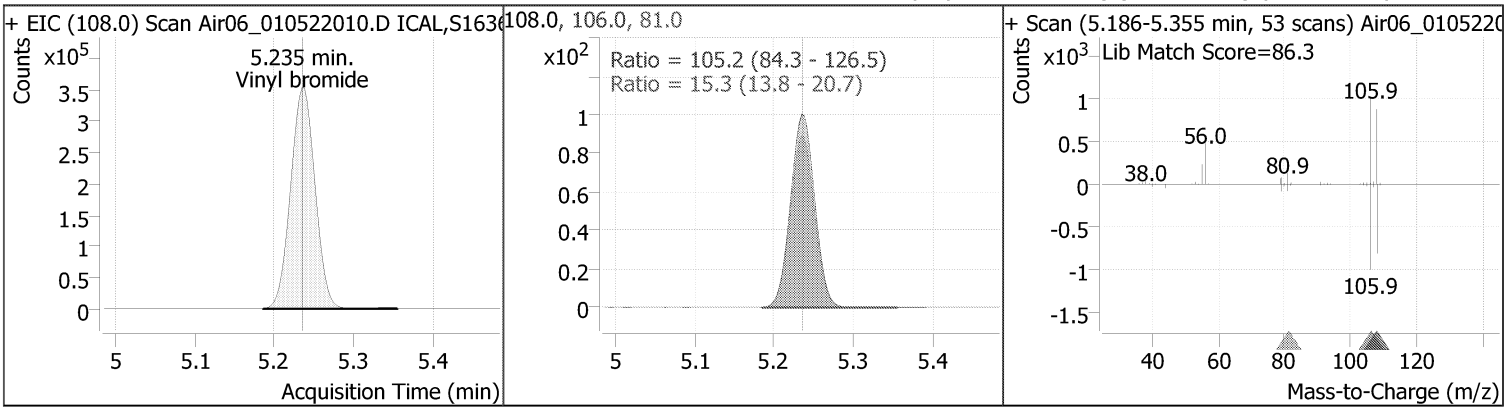



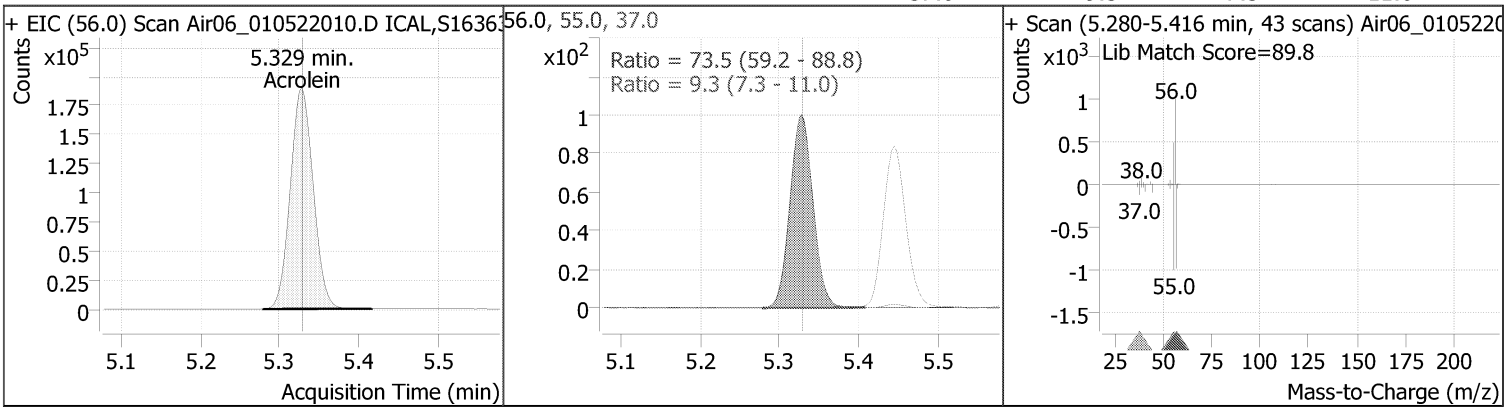
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 17.6803 | 5.00 | 0.00 | 451135 | 46.0 | 36.1 | 29.3 | 44.0 |
| | | | | | 43.0 | 19.5 | 15.9 | 23.9 |



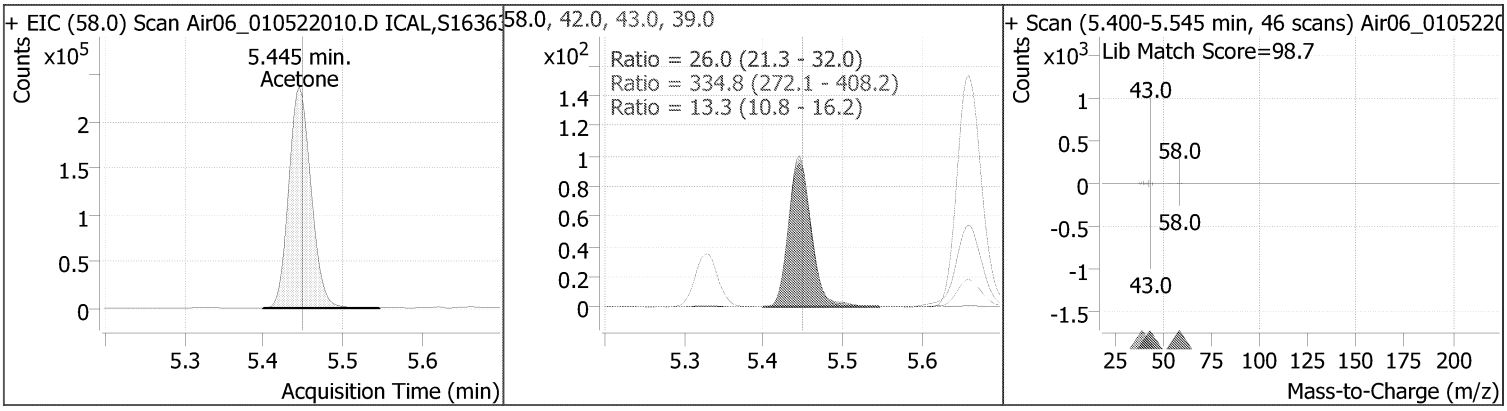

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 16.8830 | 5.23 | 0.00 | 757209 | 106.0 | 105.2 | 84.3 | 126.5 |
| | | | | | 81.0 | 15.3 | 13.8 | 20.7 |



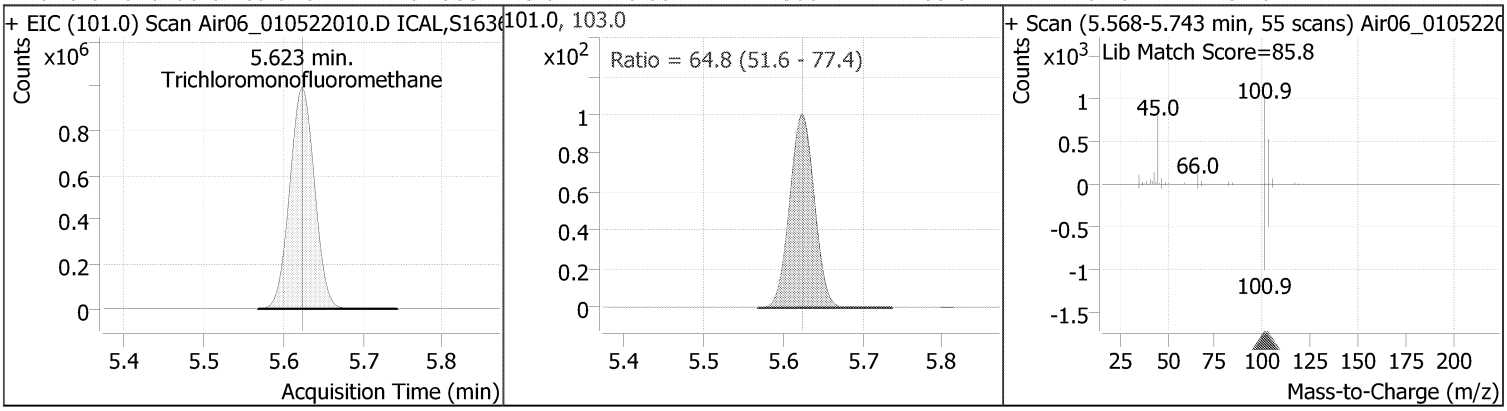

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 16.9952 | 5.33 | 0.00 | 381893 | 55.0 | 73.5 | 59.2 | 88.8 |
| | | | | | 37.0 | 9.3 | 7.3 | 11.0 |



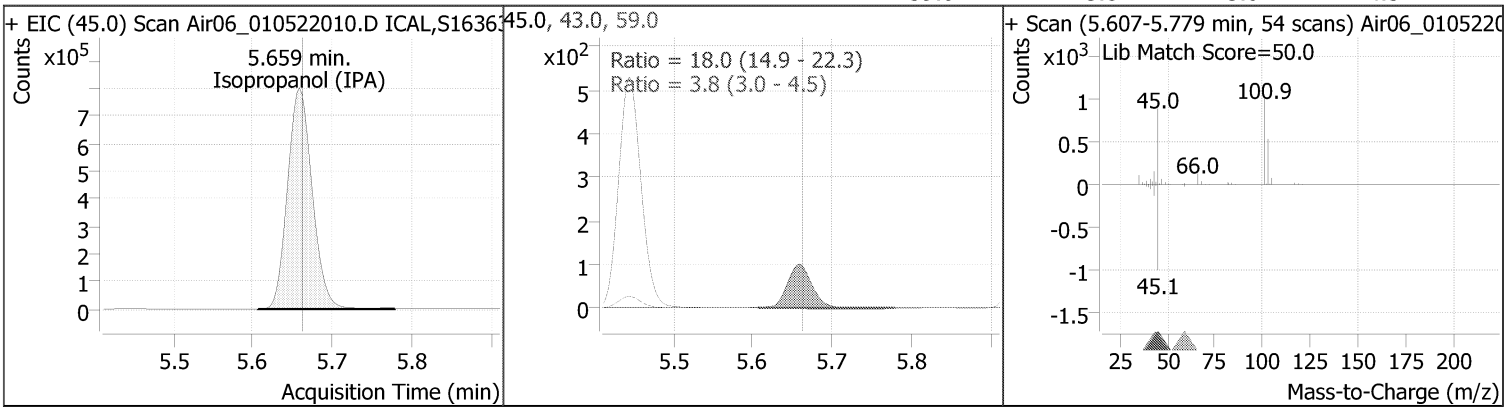
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 17.4795 | 5.45 | 0.00 | 464665 | 43.0 | 334.8 | 272.1 | 408.2 |
| | | | | | 42.0 | 26.0 | 21.3 | 32.0 |
| | | | | | 39.0 | 13.3 | 10.8 | 16.2 |



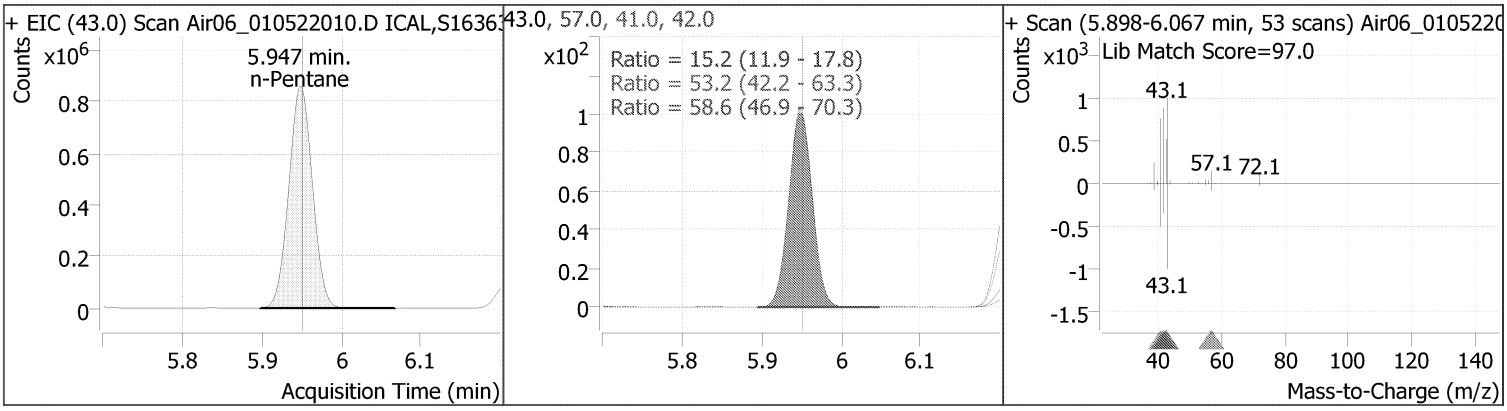

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 16.4953 | 5.62 | 0.00 | 2156674 | 103.0 | 64.8 | 51.6 | 77.4 |



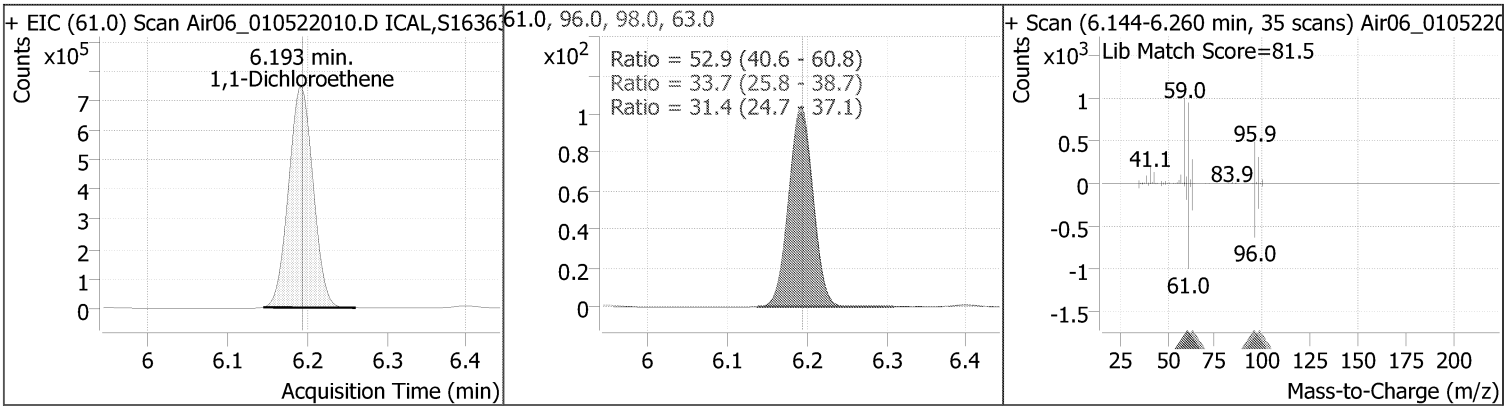

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 18.2727 | 5.66 | 0.00 | 1731658 | 43.0 | 18.0 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.8 | 3.0 | 4.5 |



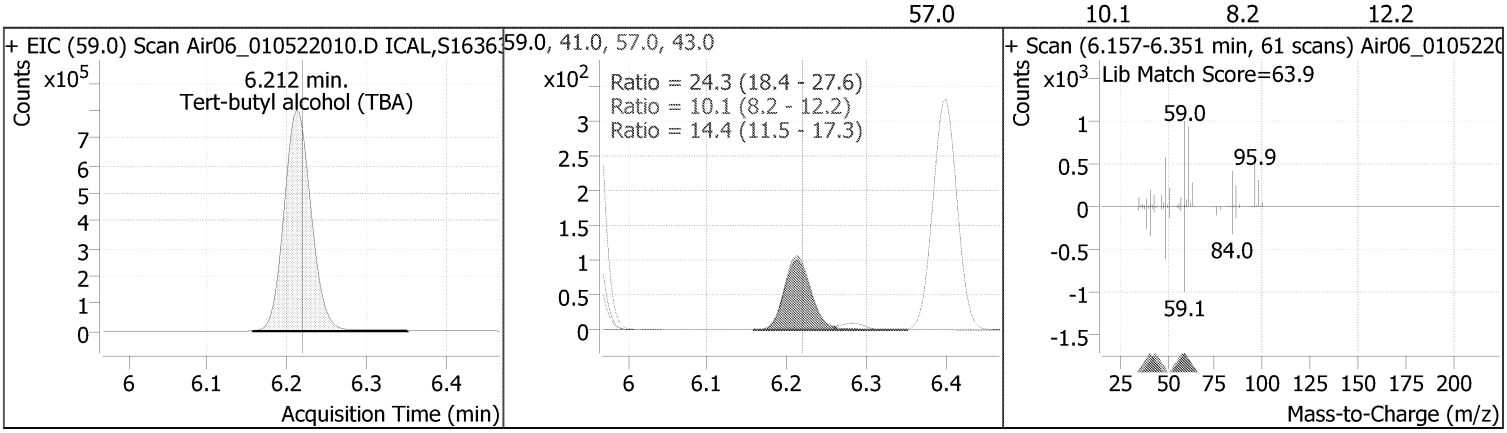
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 16.6540 | 5.95 | 0.00 | 1778207 | 42.0 | 58.6 | 46.9 | 70.3 |
| | | | | | 41.0 | 53.2 | 42.2 | 63.3 |
| | | | | | 57.0 | 15.2 | 11.9 | 17.8 |



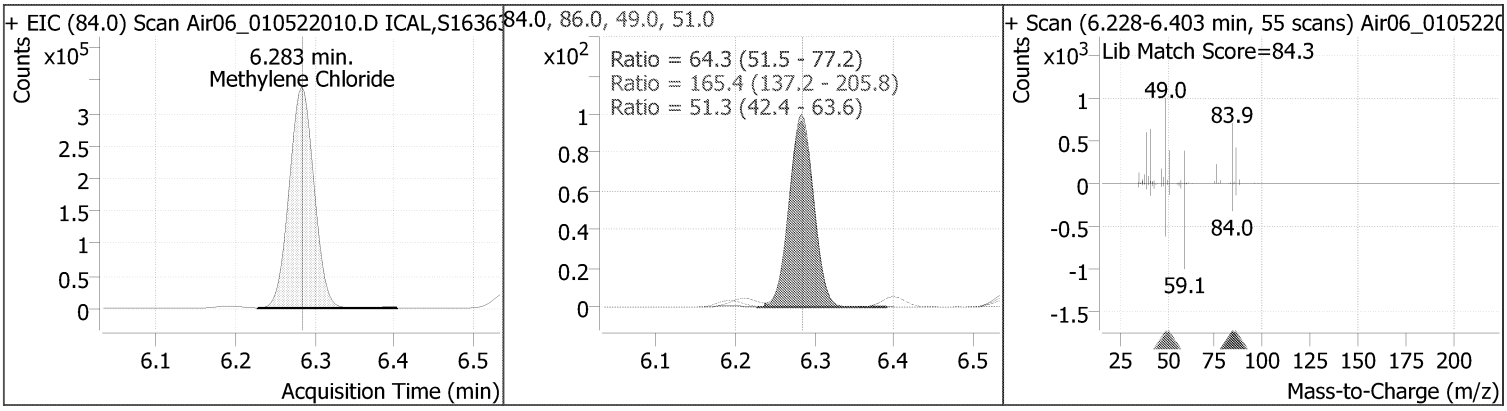

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 16.5071 | 6.19 | 0.00 | 1602641 | 96.0 | 52.9 | 40.6 | 60.8 |
| | | | | | 98.0 | 33.7 | 25.8 | 38.7 |
| | | | | | 63.0 | 31.4 | 24.7 | 37.1 |



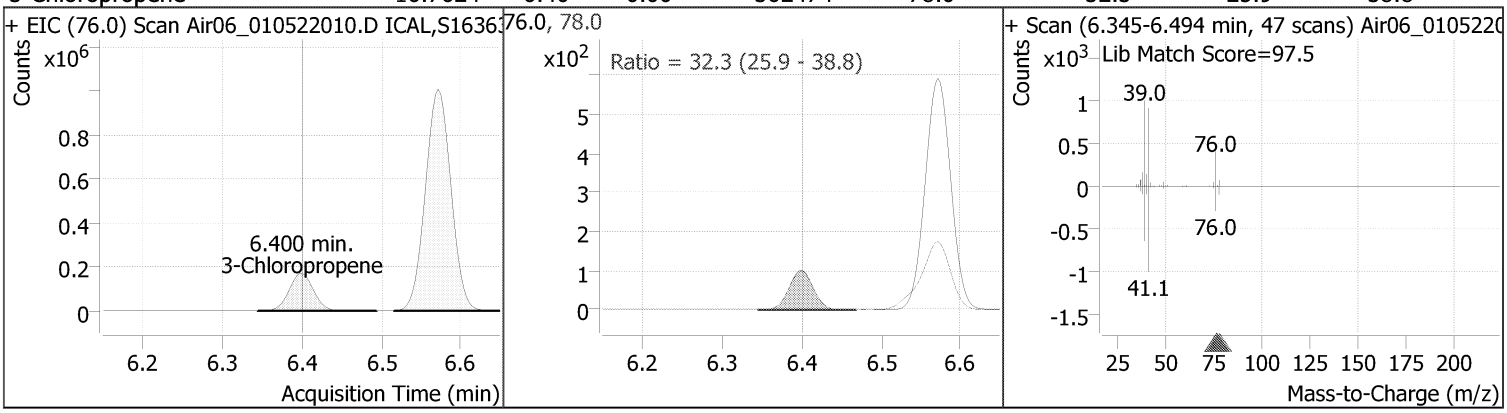

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 17.2088 | 6.21 | 0.00 | 1894584 | 41.0 | 24.3 | 18.4 | 27.6 |
| | | | | | 43.0 | 14.4 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.1 | 8.2 | 12.2 |



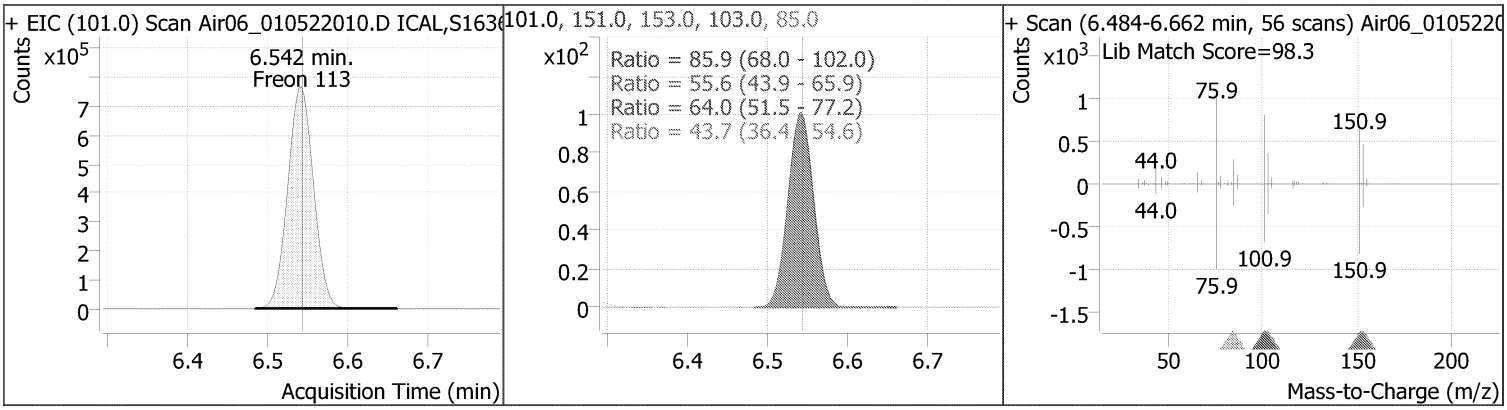
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 15.6239 | 6.28 | 0.00 | 738087 | 49.0 | 165.4 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.3 | 51.5 | 77.2 |
| | | | | | 51.0 | 51.3 | 42.4 | 63.6 |



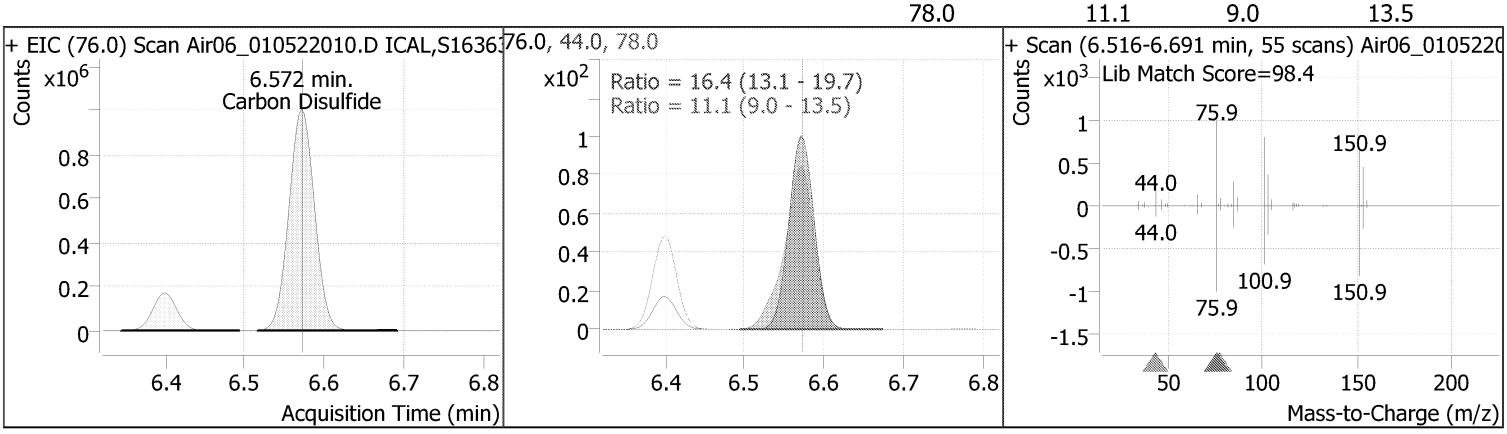

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 16.7624 | 6.40 | 0.00 | 362474 | 78.0 | 32.3 | 25.9 | 38.8 |



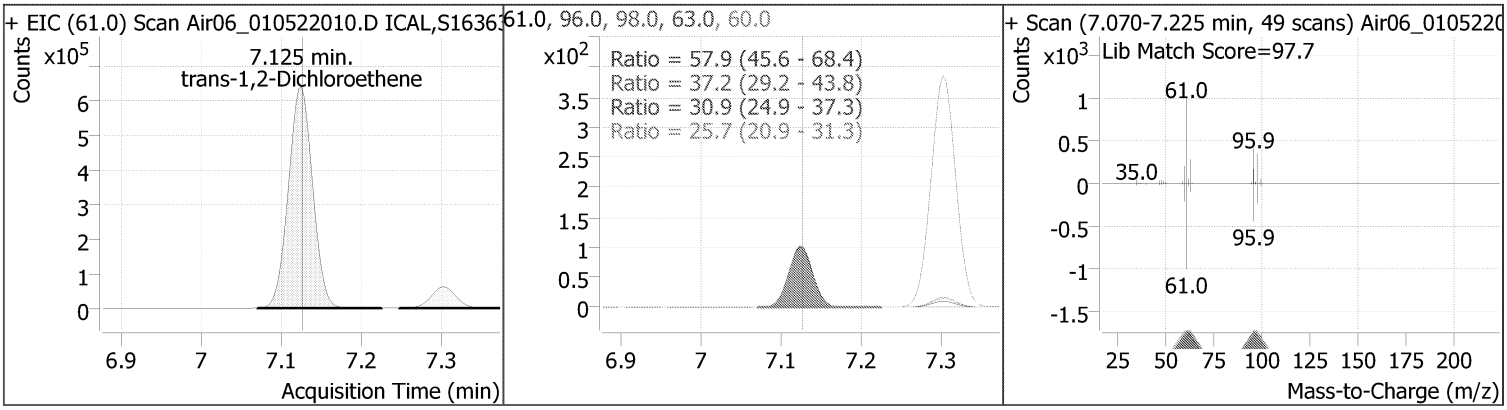

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 16.4724 | 6.54 | 0.00 | 1730028 | 151.0 | 85.9 | 68.0 | 102.0 |
| | | | | | 103.0 | 64.0 | 51.5 | 77.2 |
| | | | | | 153.0 | 55.6 | 43.9 | 65.9 |
| | | | | | 85.0 | 43.7 | 36.4 | 54.6 |



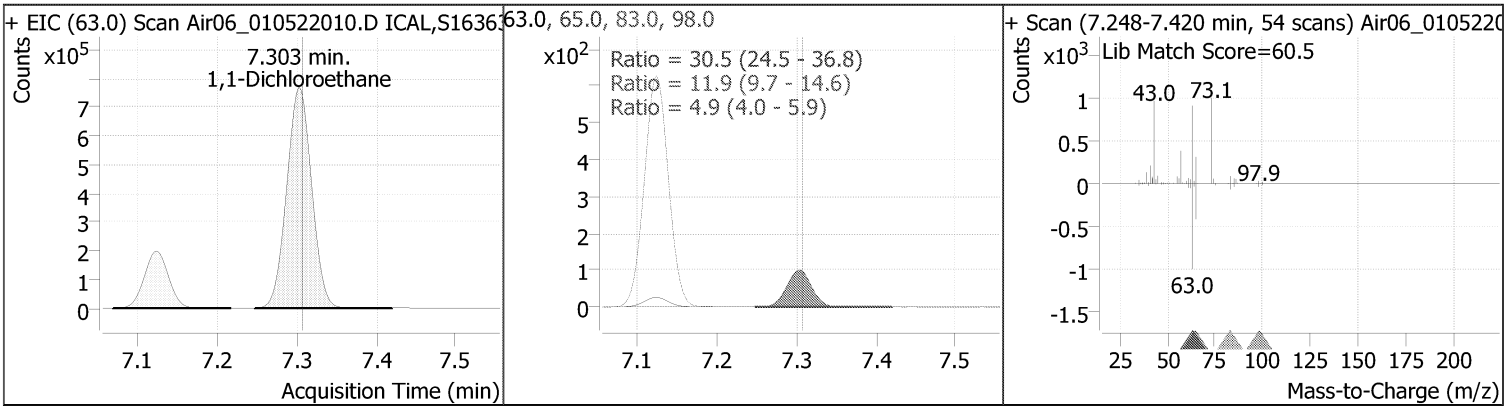
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 16.5355 | 6.57 | 0.00 | 2247391 | 44.0 | 16.4 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.1 | 9.0 | 13.5 |



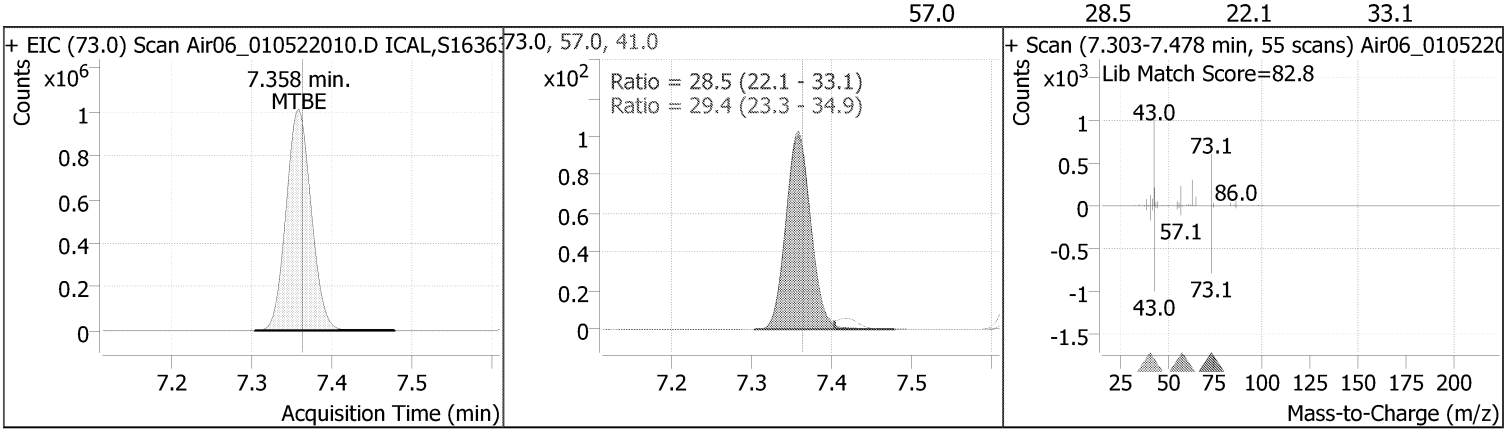

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 16.7551 | 7.12 | 0.00 | 1359859 | 96.0 | 57.9 | 45.6 | 68.4 |
| | | | | | 98.0 | 37.2 | 29.2 | 43.8 |
| | | | | | 63.0 | 30.9 | 24.9 | 37.3 |
| | | | | | 60.0 | 25.7 | 20.9 | 31.3 |



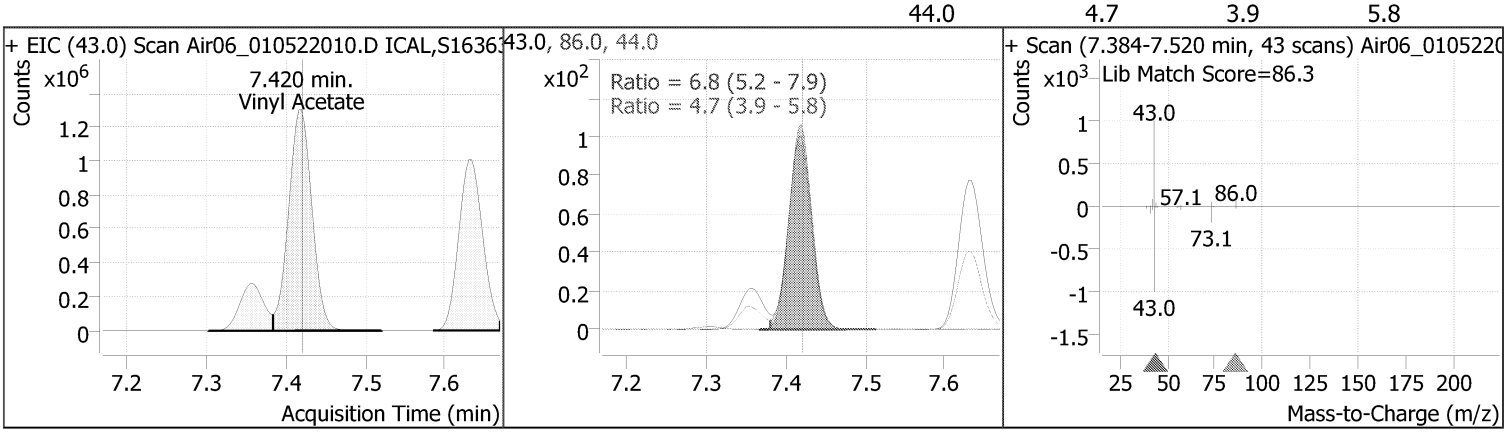

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 16.8127 | 7.30 | 0.00 | 1675208 | 65.0 | 30.5 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.9 | 9.7 | 14.6 |
| | | | | | 98.0 | 4.9 | 4.0 | 5.9 |



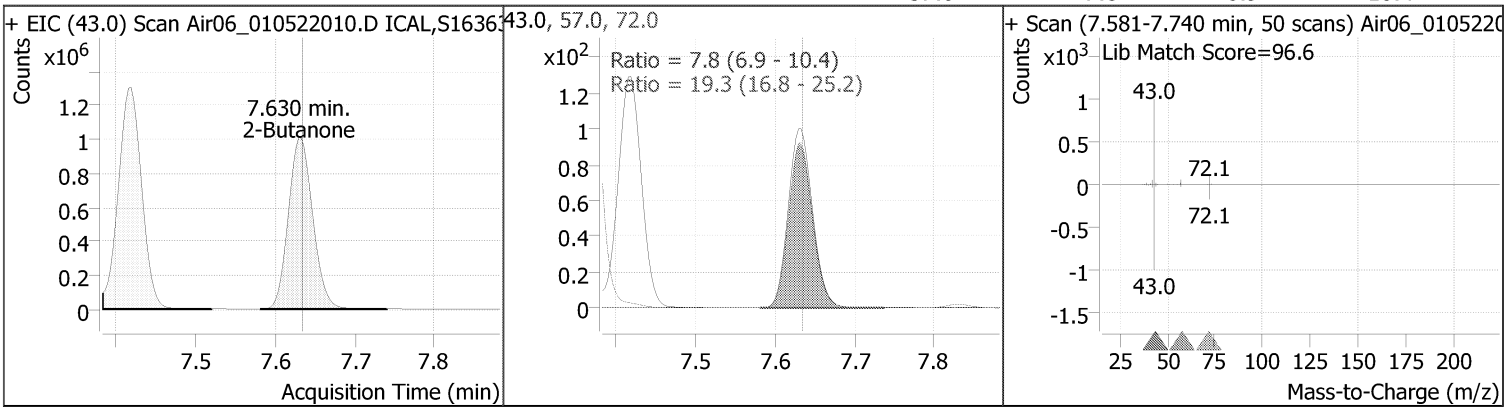
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 16.7403 | 7.36 | 0.00 | 2211337 | 41.0 | 29.4 | 23.3 | 34.9 |
| | | | | | 57.0 | 28.5 | 22.1 | 33.1 |



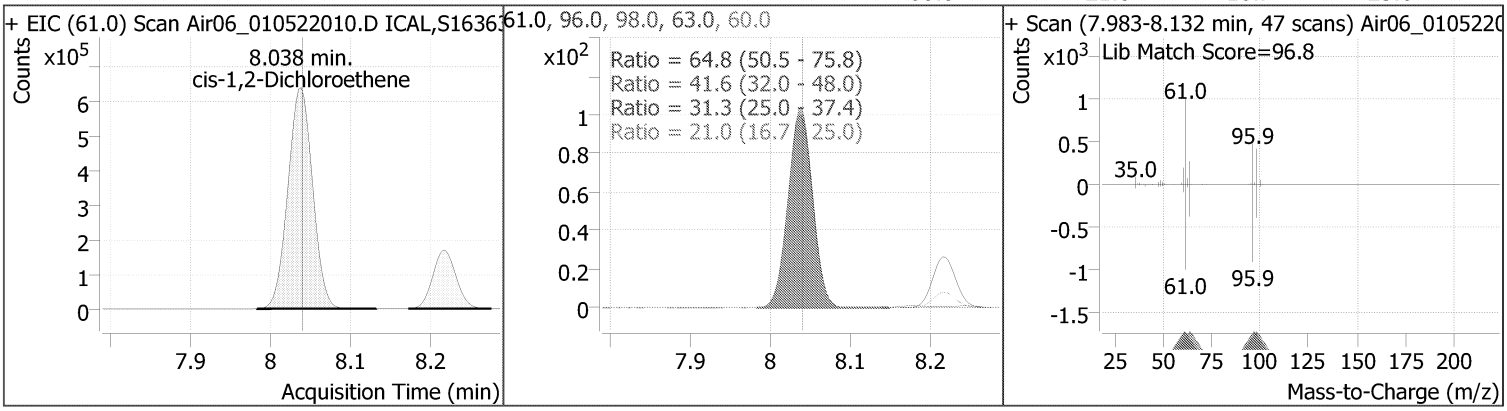

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 15.1157 | 7.42 | 0.00 | 2657354 | 86.0 | 6.8 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.7 | 3.9 | 5.8 |



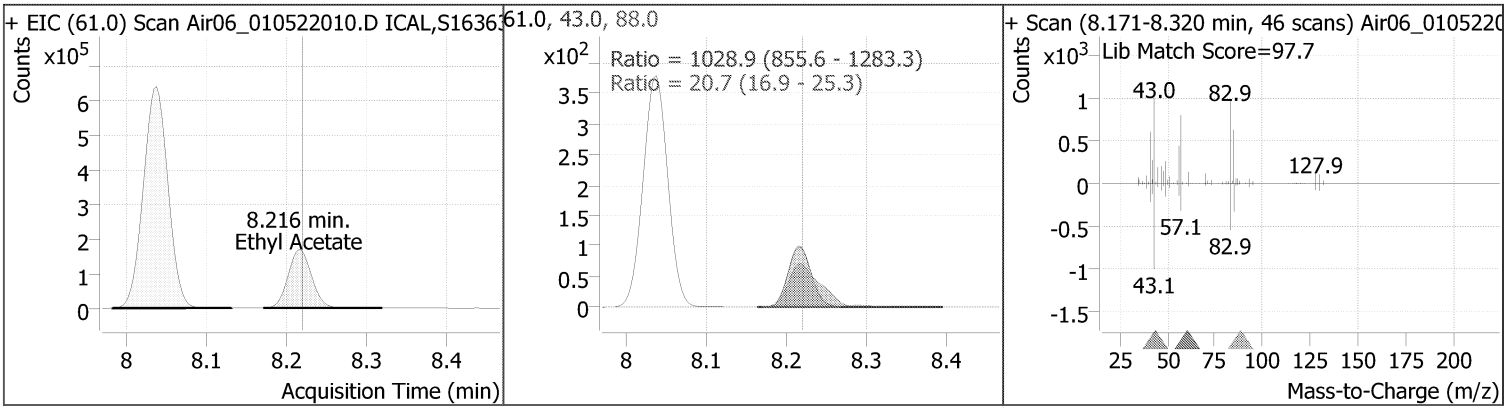

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 16.6321 | 7.63 | 0.00 | 2143106 | 72.0 | 19.3 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.8 | 6.9 | 10.4 |



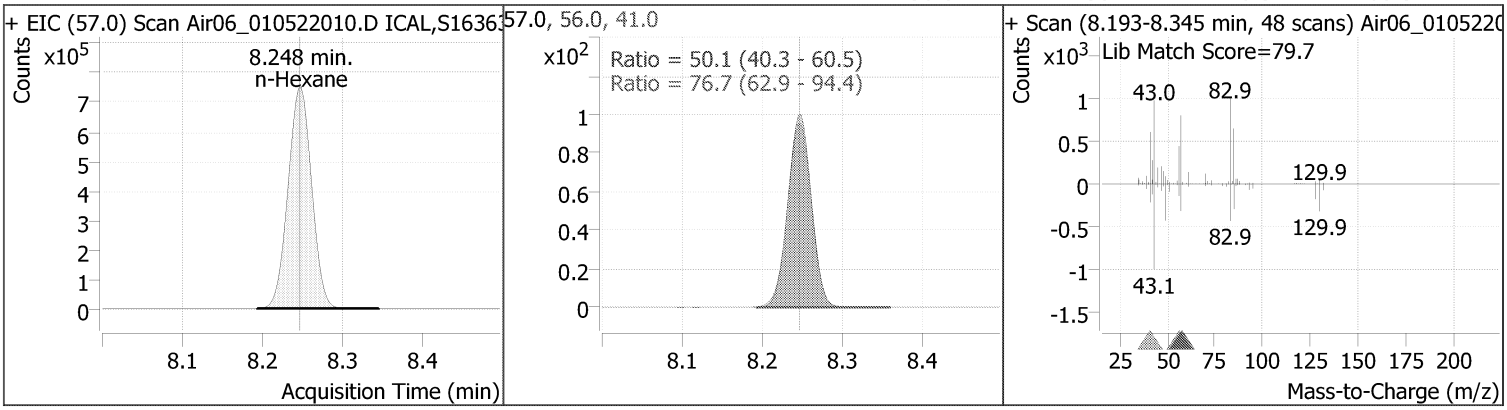
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 16.7070 | 8.04 | 0.00 | 1370866 | 96.0 | 64.8 | 50.5 | 75.8 |
| | | | | | 98.0 | 41.6 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.3 | 25.0 | 37.4 |
| | | | | | 60.0 | 21.0 | 16.7 | 25.0 |



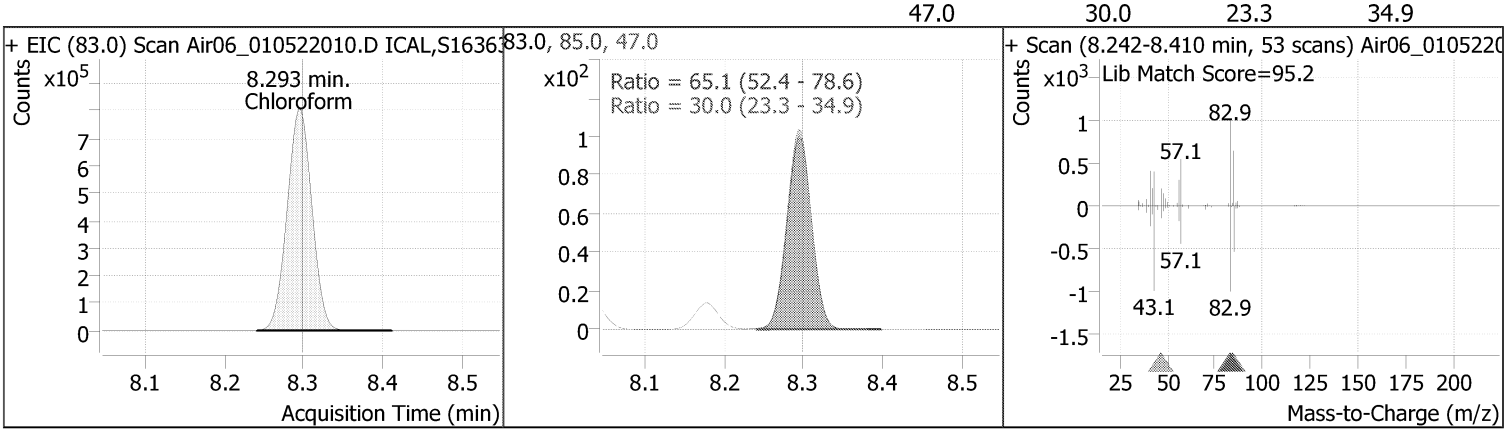

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 16.9842 | 8.22 | 0.00 | 342393 | 43.0 | 1028.9 | 855.6 | 1283.3 |
| | | | | | 88.0 | 20.7 | 16.9 | 25.3 |



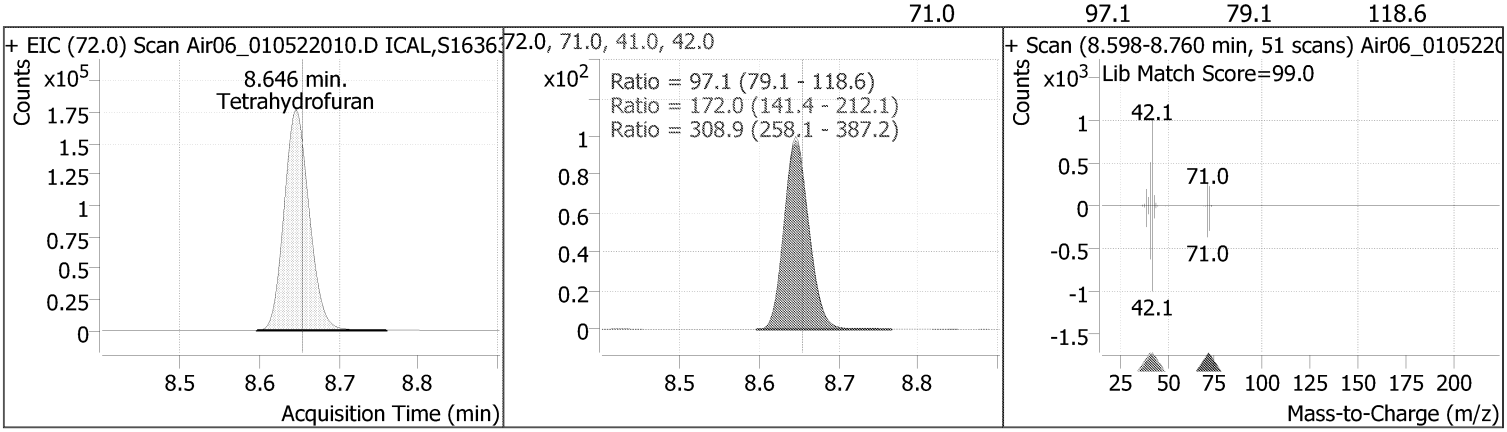

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 16.6674 | 8.25 | 0.00 | 1548467 | 41.0 | 76.7 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.1 | 40.3 | 60.5 |



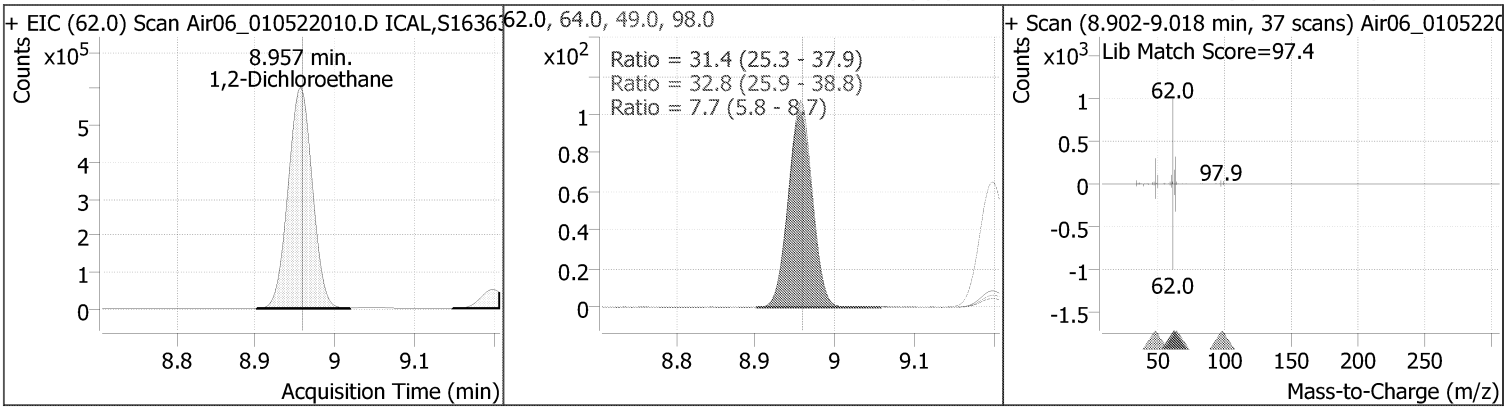
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 16.6740 | 8.29 | 0.00 | 1749067 | 85.0 | 65.1 | 52.4 | 78.6 |
| | | | | | 47.0 | 30.0 | 23.3 | 34.9 |



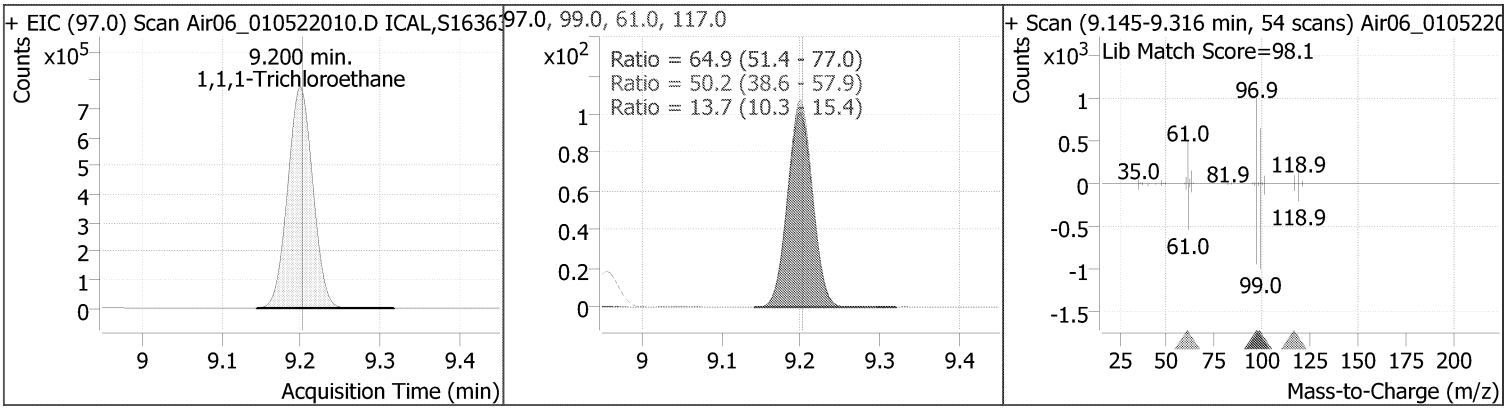

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 16.8560 | 8.65 | 0.00 | 388690 | 42.0 | 308.9 | 258.1 | 387.2 |
| | | | | | 41.0 | 172.0 | 141.4 | 212.1 |
| | | | | | 71.0 | 97.1 | 79.1 | 118.6 |



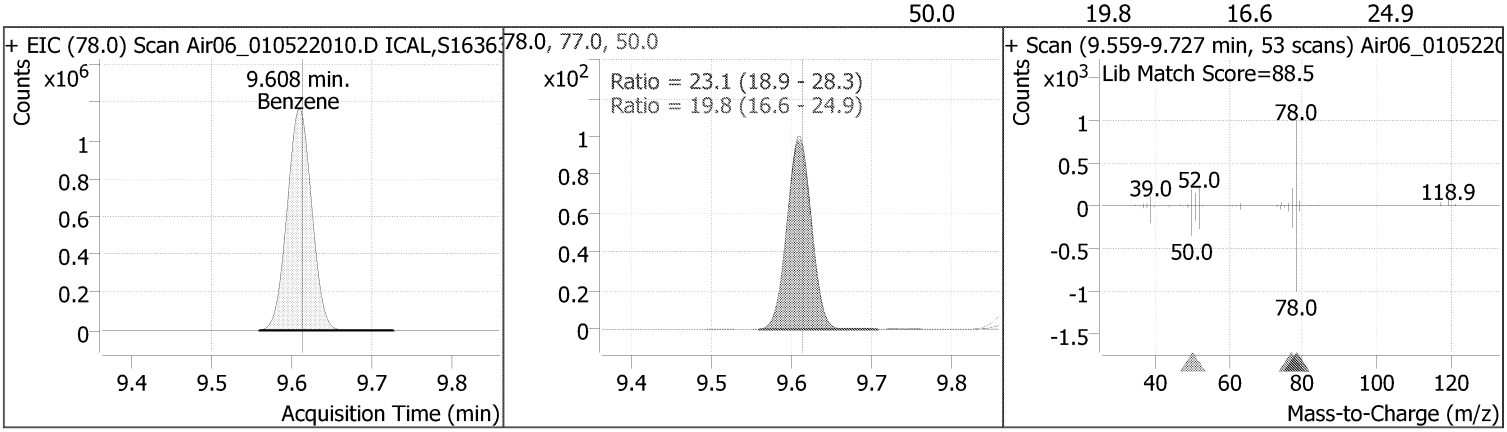

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 16.6909 | 8.96 | 0.00 | 1279630 | 49.0 | 32.8 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.4 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.7 | 5.8 | 8.7 |



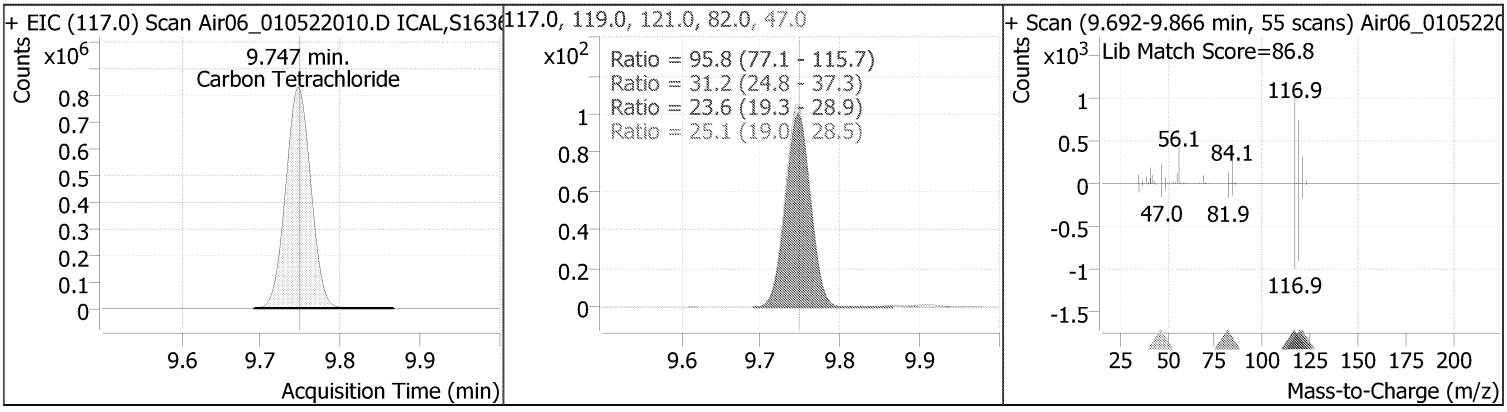
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 16.8613 | 9.20 | 0.00 | 1708825 | 99.0 | 64.9 | 51.4 | 77.0 |
| | | | | | 61.0 | 50.2 | 38.6 | 57.9 |
| | | | | | 117.0 | 13.7 | 10.3 | 15.4 |



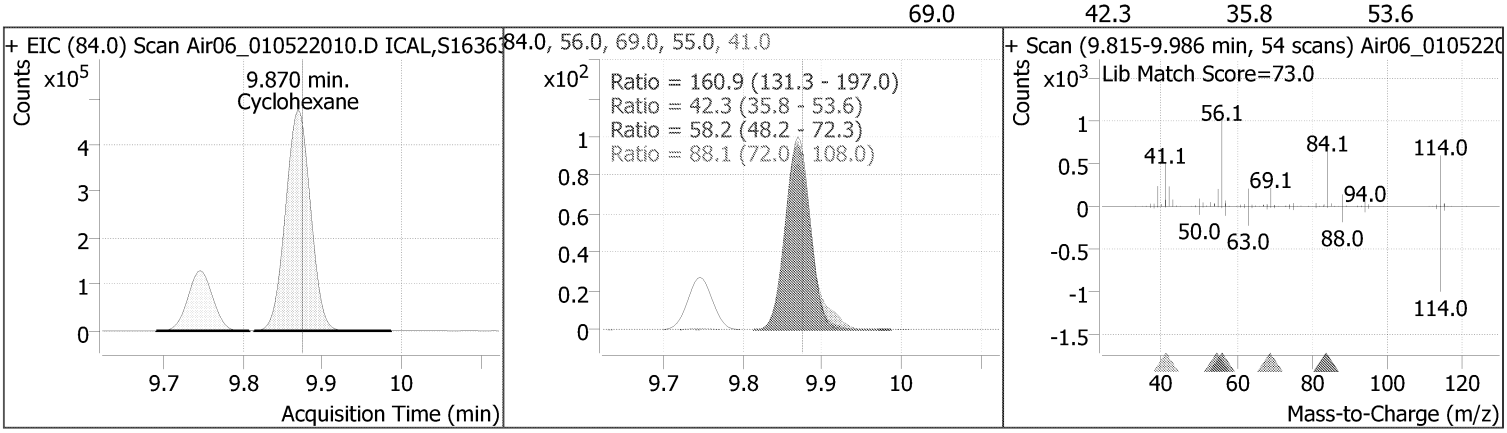

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 16.6575 | 9.61 | 0.00 | 2518223 | 77.0 | 23.1 | 18.9 | 28.3 |
| | | | | | 50.0 | 19.8 | 16.6 | 24.9 |



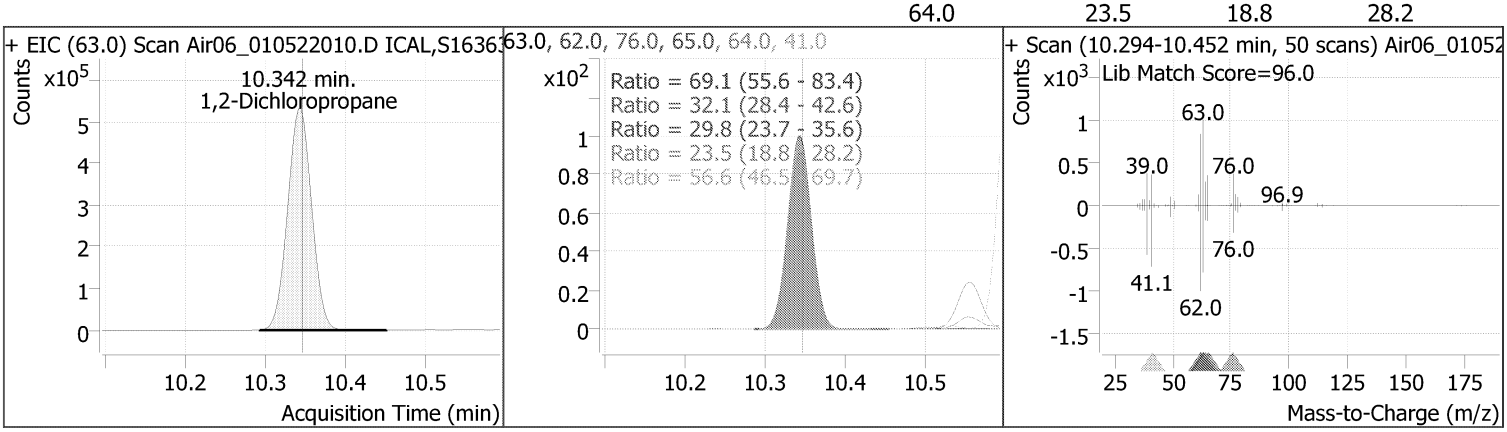

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 16.9044 | 9.75 | 0.00 | 1828332 | 119.0 | 95.8 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.2 | 24.8 | 37.3 |
| | | | | | 82.0 | 23.6 | 19.3 | 28.9 |
| | | | | | 47.0 | 25.1 | 19.0 | 28.5 |



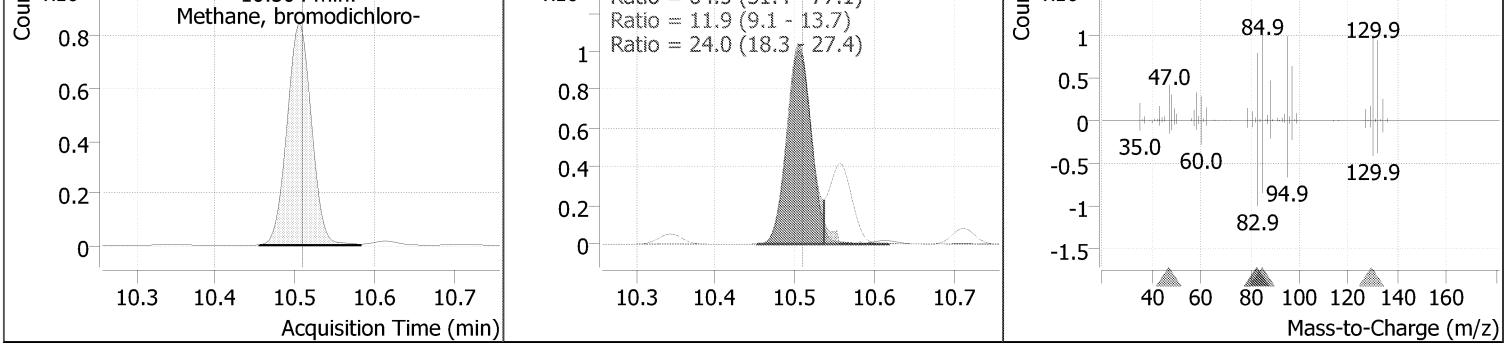
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 16.4443 | 9.87 | 0.00 | 1039248 | 56.0 | 160.9 | 131.3 | 197.0 |
| | | | | | 41.0 | 88.1 | 72.0 | 108.0 |
| | | | | | 55.0 | 58.2 | 48.2 | 72.3 |
| | | | | | 69.0 | 42.3 | 35.8 | 53.6 |



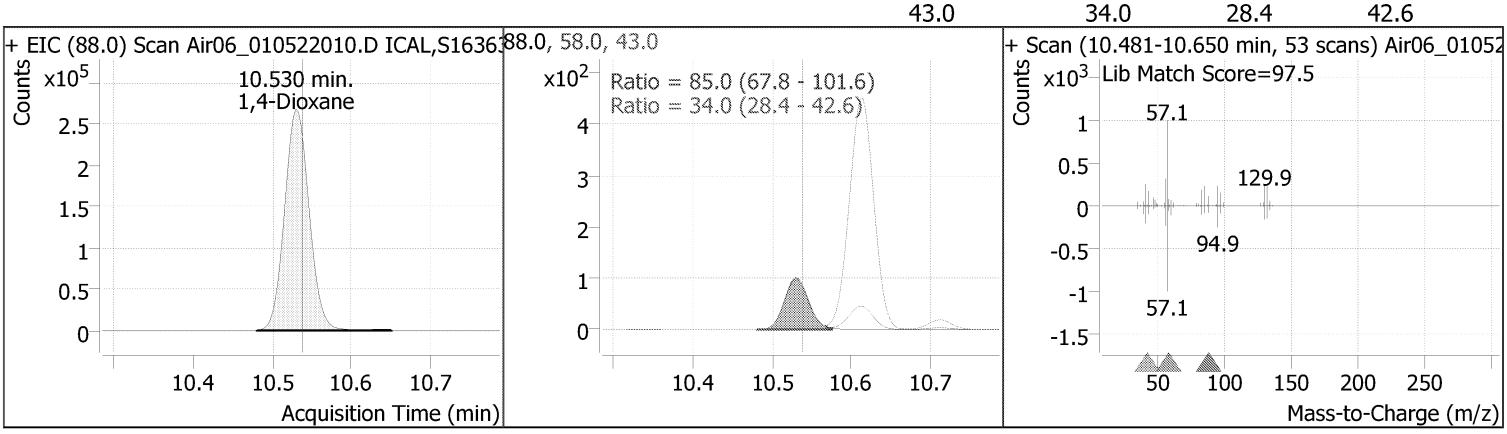

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 17.1882 | 10.34 | 0.00 | 1119530 | 62.0 | 69.1 | 55.6 | 83.4 |
| | | | | | 41.0 | 56.6 | 46.5 | 69.7 |
| | | | | | 76.0 | 32.1 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.8 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.5 | 18.8 | 28.2 |



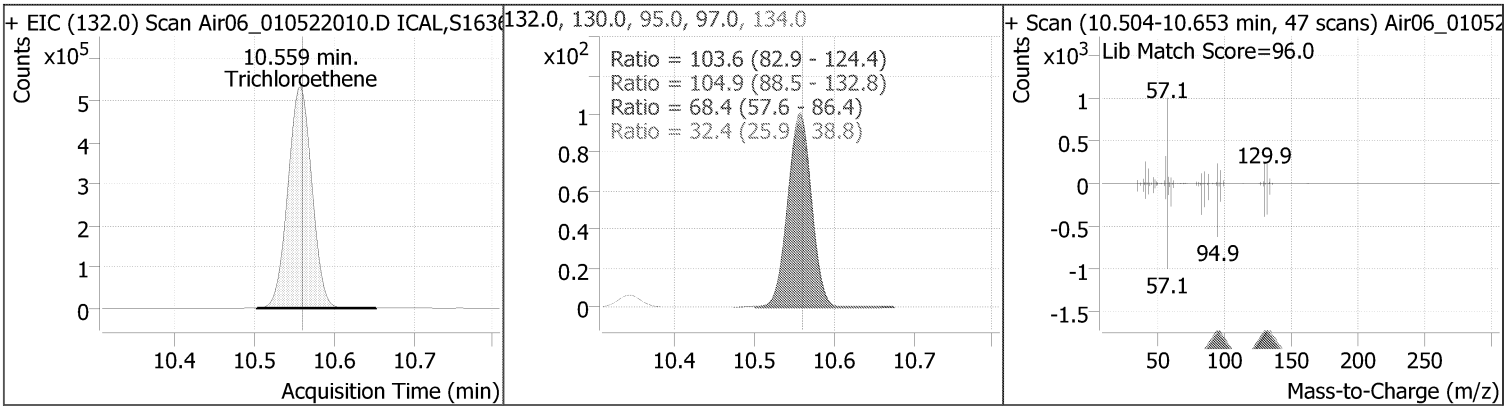

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 17.0074 | 10.50 | 0.00 | 1814320 | 85.0 | 64.5 | 51.4 | 77.1 |
| | | | | | 47.0 | 24.0 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.9 | 9.1 | 13.7 |



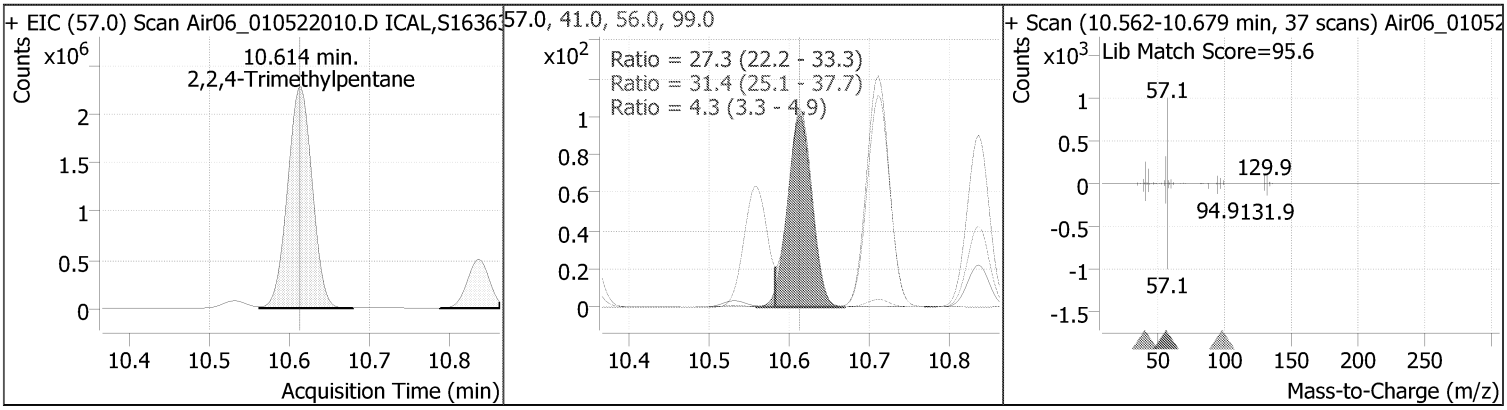
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 16.7846 | 10.53 | 0.00 | 572314 | 58.0 | 85.0 | 67.8 | 101.6 |
| | | | | | 43.0 | 34.0 | 28.4 | 42.6 |



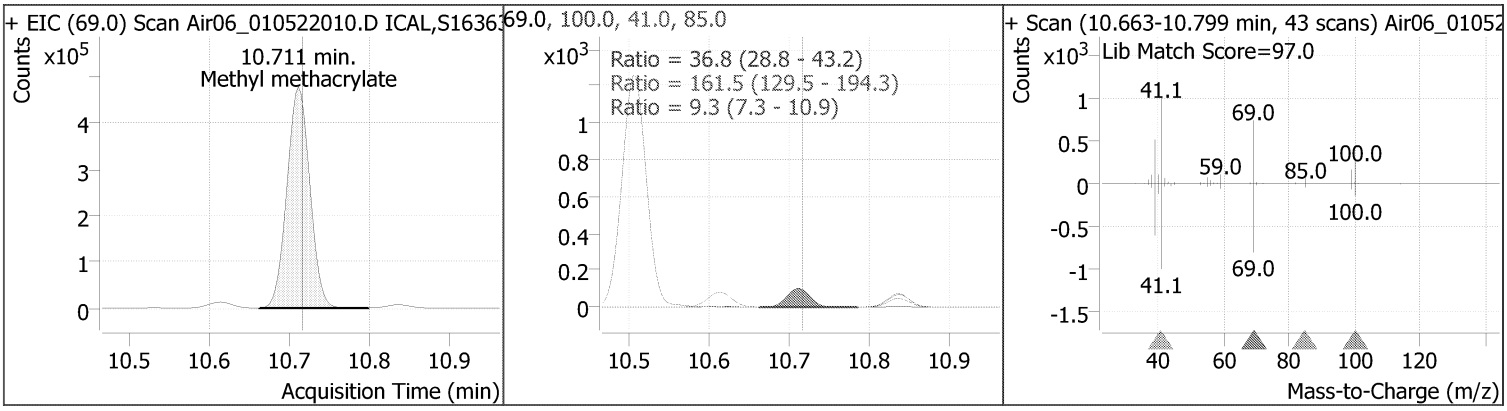

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 16.7743 | 10.56 | 0.00 | 1117312 | 95.0 | 104.9 | 88.5 | 132.8 |
| | | | | | 130.0 | 103.6 | 82.9 | 124.4 |
| | | | | | 97.0 | 68.4 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.4 | 25.9 | 38.8 |



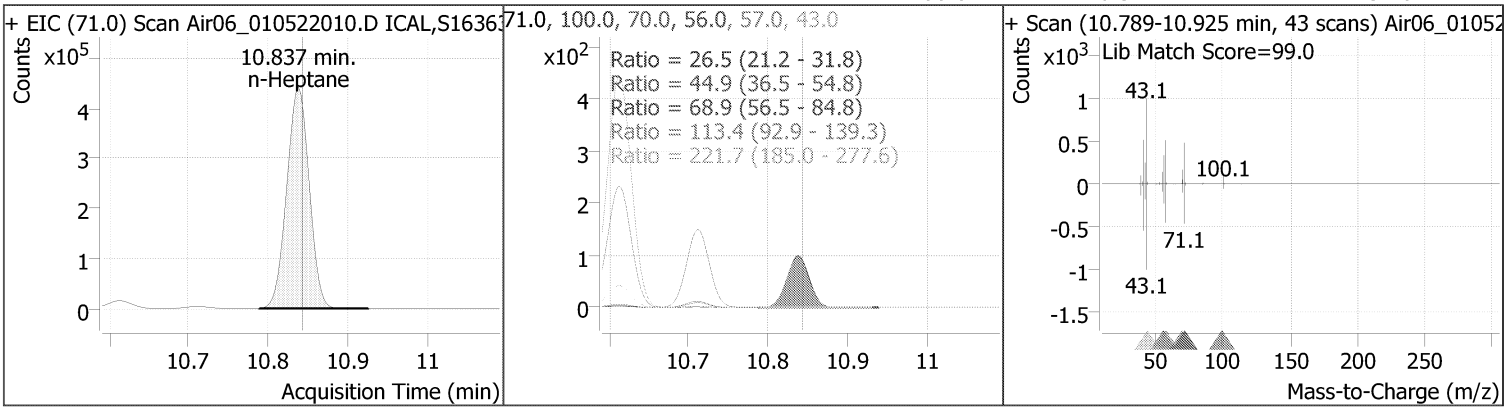

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 16.4364 | 10.61 | 0.00 | 4913933 | 56.0 | 31.4 | 25.1 | 37.7 |
| | | | | | 41.0 | 27.3 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.3 | 3.3 | 4.9 |



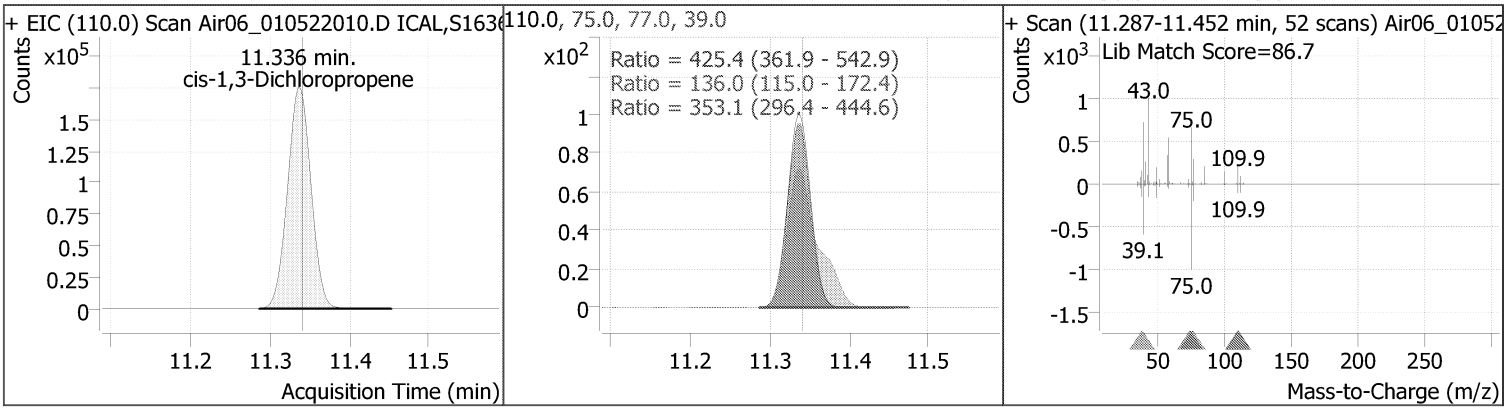
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 17.2960 | 10.71 | 0.00 | 956622 | 41.0 | 161.5 | 129.5 | 194.3 |
| | | | | | 100.0 | 36.8 | 28.8 | 43.2 |
| | | | | | 85.0 | 9.3 | 7.3 | 10.9 |



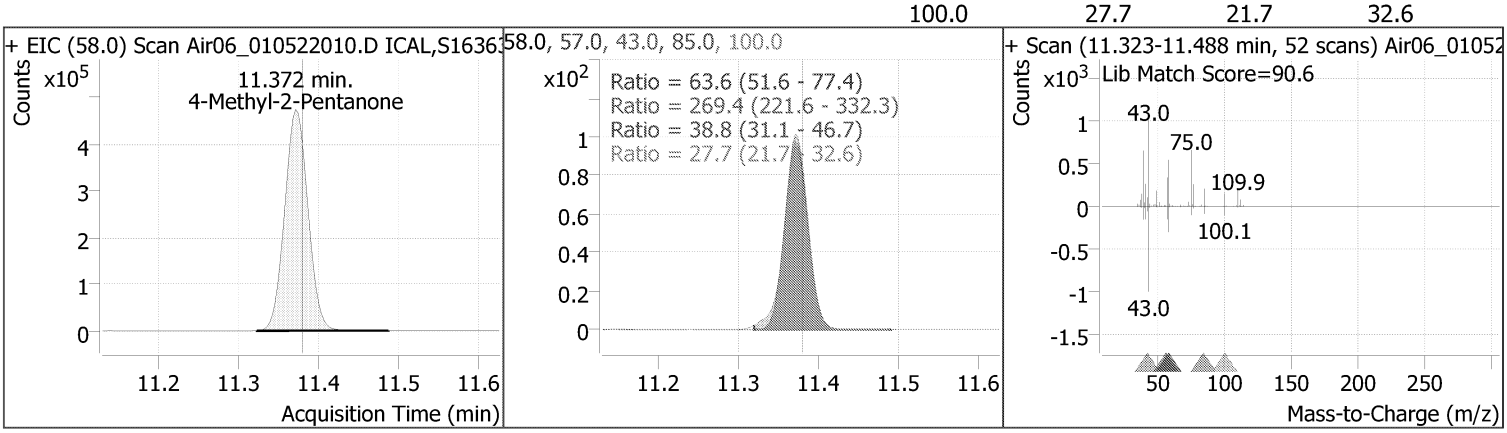

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 16.8361 | 10.84 | 0.00 | 865112 | 43.0 | 221.7 | 185.0 | 277.6 |
| | | | | | 57.0 | 113.4 | 92.9 | 139.3 |
| | | | | | 56.0 | 68.9 | 56.5 | 84.8 |
| | | | | | 70.0 | 44.9 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.5 | 21.2 | 31.8 |



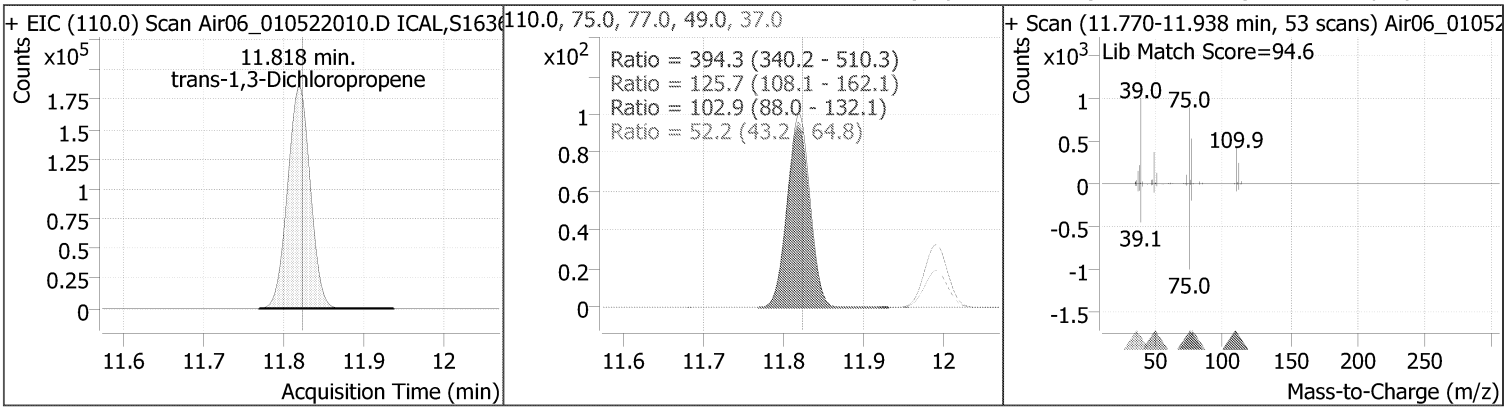

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 17.3891 | 11.34 | 0.00 | 359323 | 75.0 | 425.4 | 361.9 | 542.9 |
| | | | | | 39.0 | 353.1 | 296.4 | 444.6 |
| | | | | | 77.0 | 136.0 | 115.0 | 172.4 |



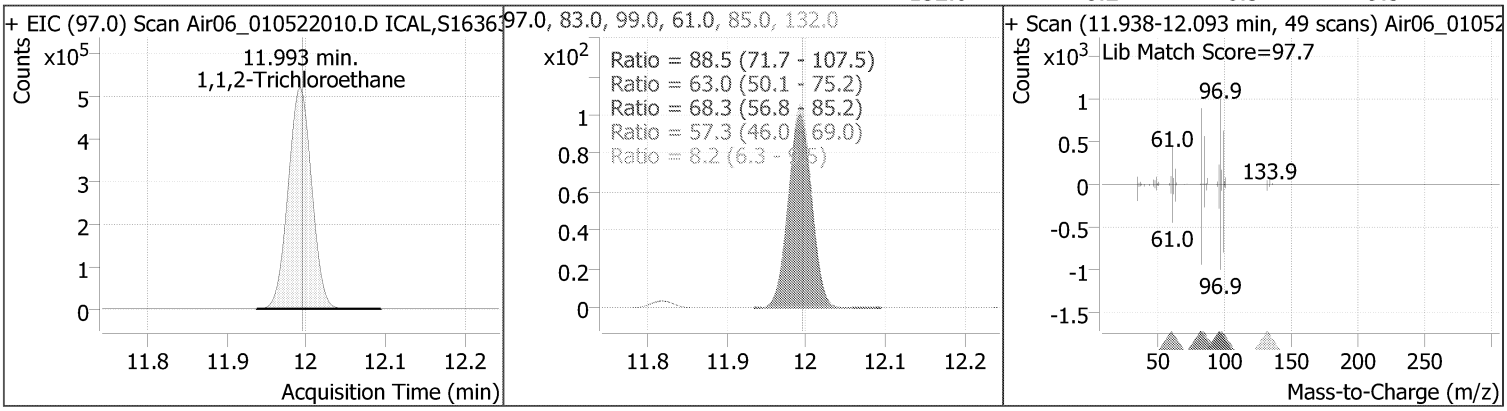
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 16.9042 | 11.37 | 0.00 | 967251 | 43.0 | 269.4 | 221.6 | 332.3 |
| | | | | | 57.0 | 63.6 | 51.6 | 77.4 |
| | | | | | 85.0 | 38.8 | 31.1 | 46.7 |
| | | | | | 100.0 | 27.7 | 21.7 | 32.6 |



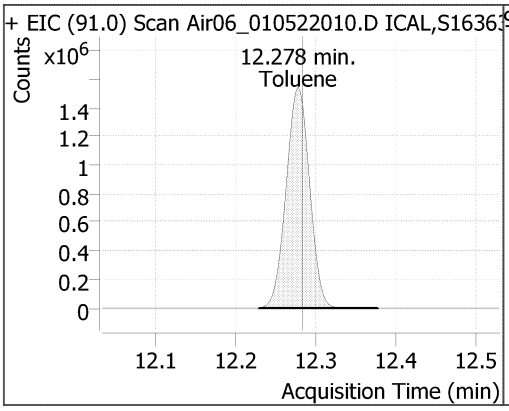

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 17.5021 | 11.82 | 0.00 | 370285 | 75.0 | 394.3 | 340.2 | 510.3 |
| | | | | | 77.0 | 125.7 | 108.1 | 162.1 |
| | | | | | 49.0 | 102.9 | 88.0 | 132.1 |
| | | | | | 37.0 | 52.2 | 43.2 | 64.8 |

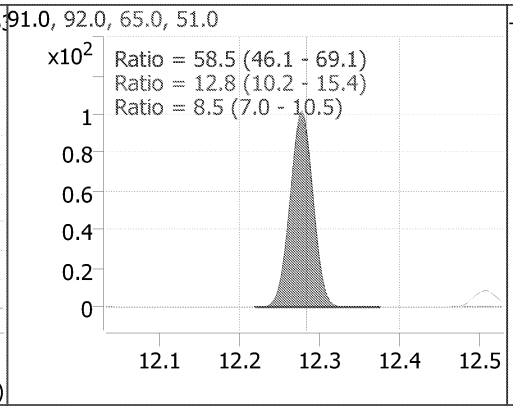


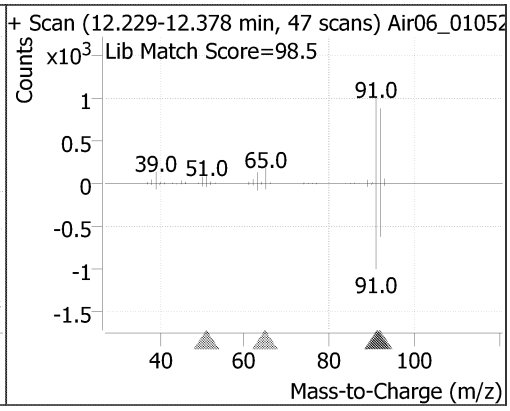

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 17.1864 | 11.99 | 0.00 | 1067083 | 83.0 | 88.5 | 71.7 | 107.5 |
| | | | | | 61.0 | 68.3 | 56.8 | 85.2 |
| | | | | | 99.0 | 63.0 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.3 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.2 | 6.3 | 9.5 |



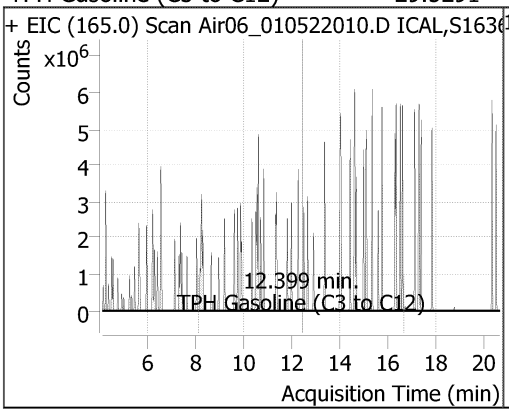
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 16.6915 | 12.28 | 0.00 | 3162872 | 92.0 | 58.5 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.8 | 10.2 | 15.4 |
| | | | | | 51.0 | 8.5 | 7.0 | 10.5 |

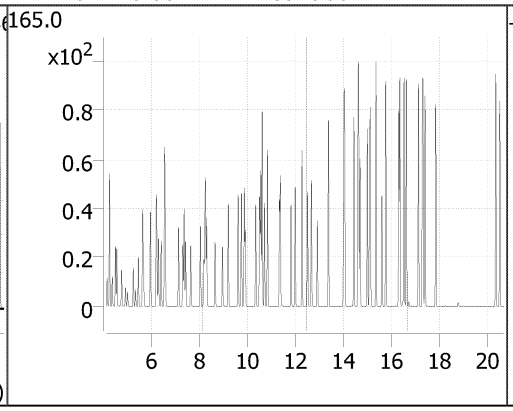


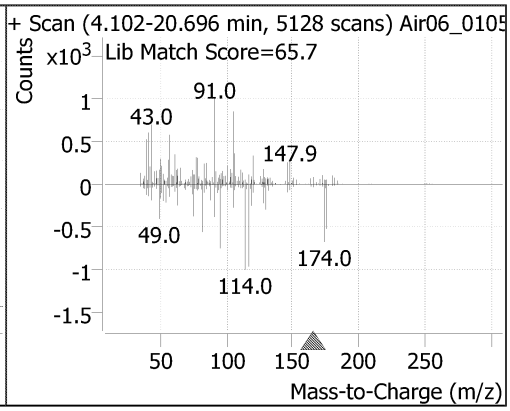



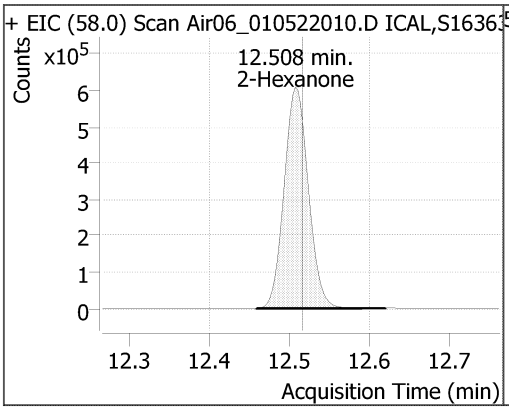

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 29.5291 | 12.40 | 0.00 | 439198014 | | | | |

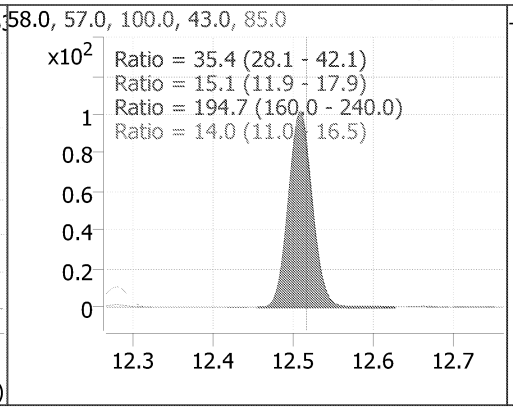


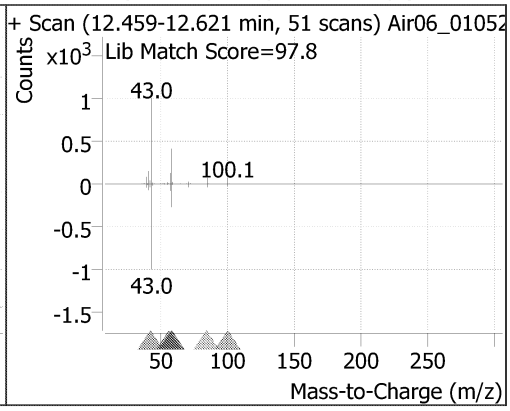



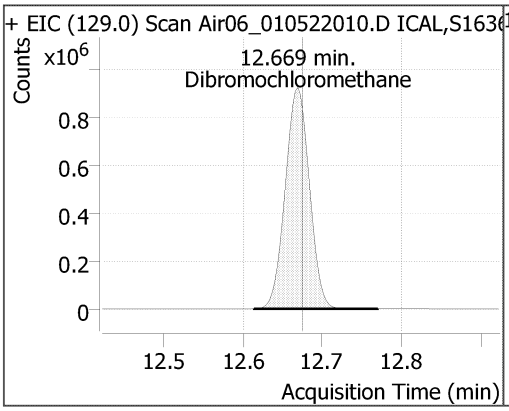

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 17.6708 | 12.51 | 0.00 | 1292352 | 43.0 | 194.7 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.4 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.1 | 11.9 | 17.9 |
| | | | | | 85.0 | 14.0 | 11.0 | 16.5 |

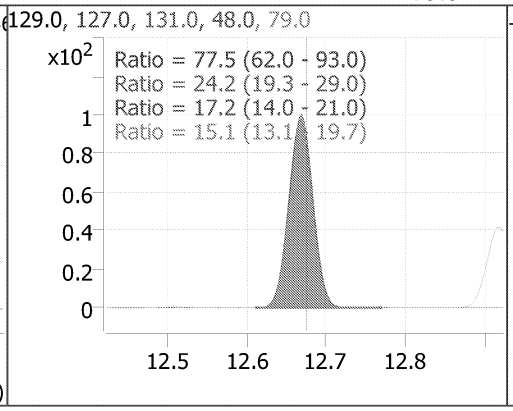


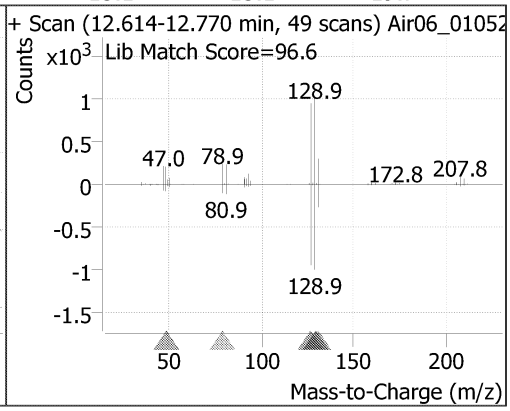



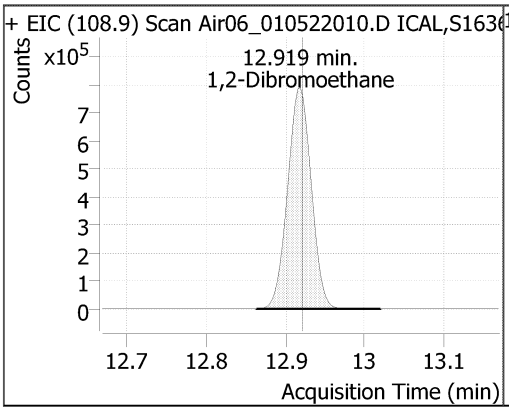
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 17.2795 | 12.67 | 0.00 | 1949174 | 127.0 | 77.5 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.2 | 19.3 | 29.0 |
| | | | | | 48.0 | 17.2 | 14.0 | 21.0 |
| | | | | | 79.0 | 15.1 | 13.1 | 19.7 |

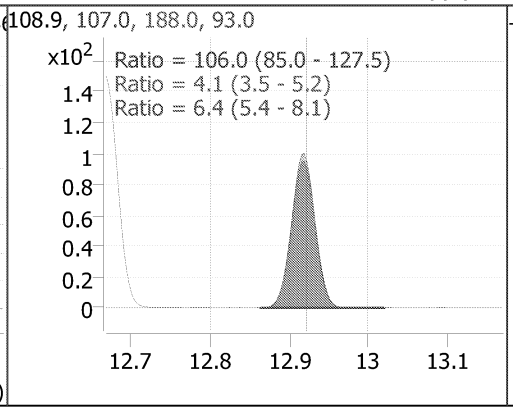


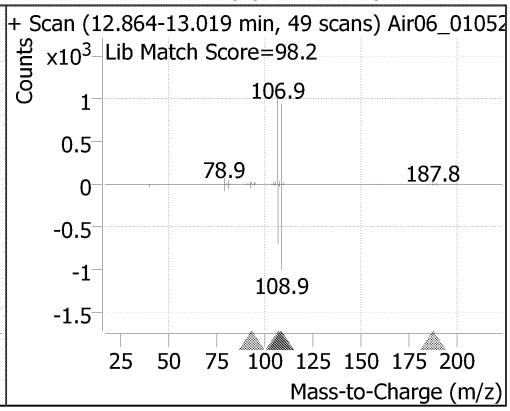



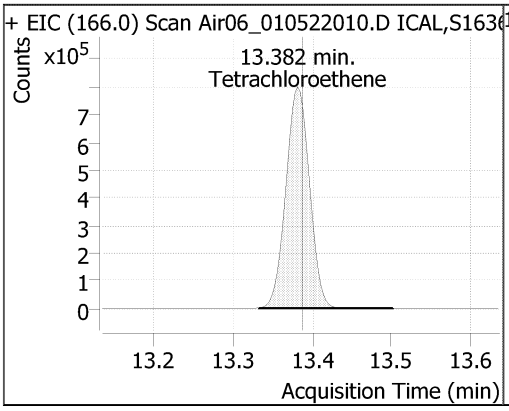

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 17.1062 | 12.92 | 0.00 | 1635691 | 107.0 | 106.0 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.4 | 5.4 | 8.1 |
| | | | | | 188.0 | 4.1 | 3.5 | 5.2 |

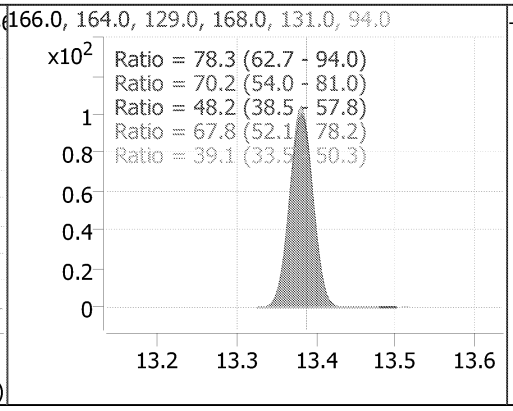


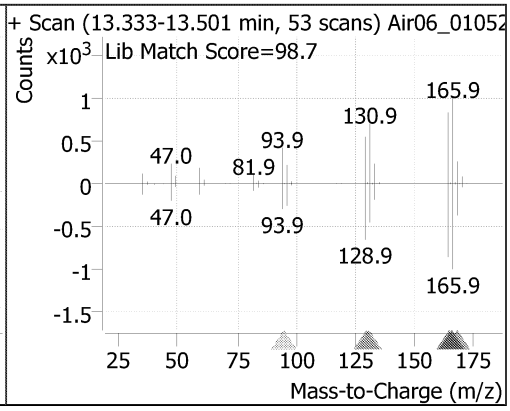



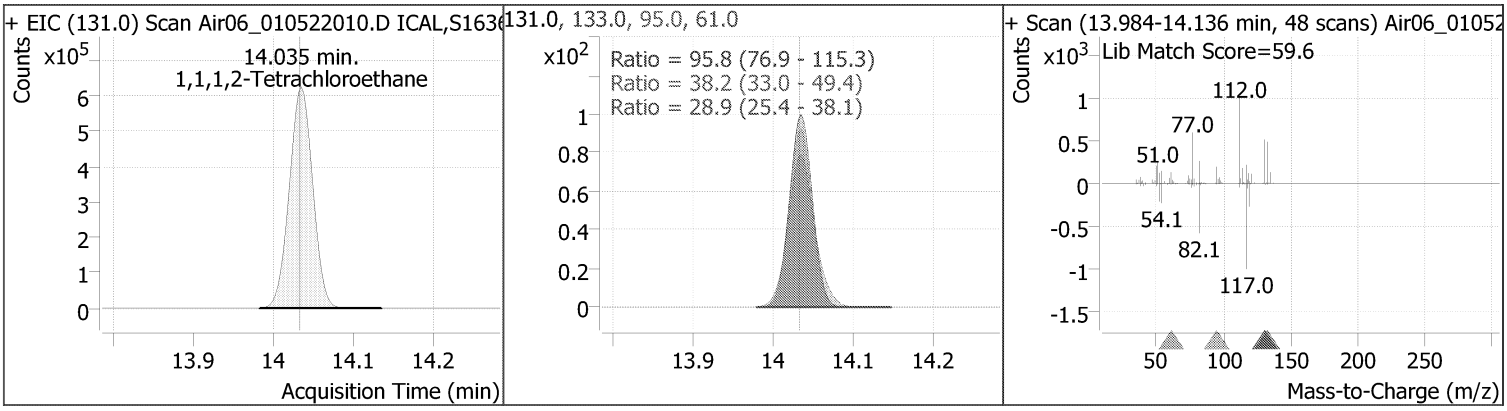

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 16.9208 | 13.38 | 0.00 | 1655761 | 164.0 | 78.3 | 62.7 | 94.0 |
| | | | | | 129.0 | 70.2 | 54.0 | 81.0 |
| | | | | | 131.0 | 67.8 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.2 | 38.5 | 57.8 |
| | | | | | 94.0 | 39.1 | 33.5 | 50.3 |



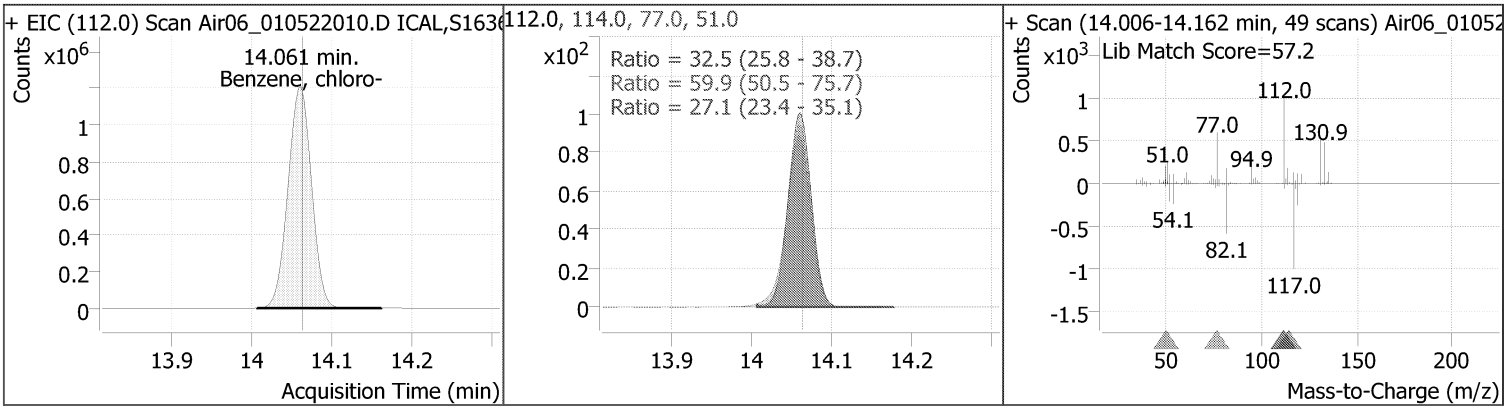



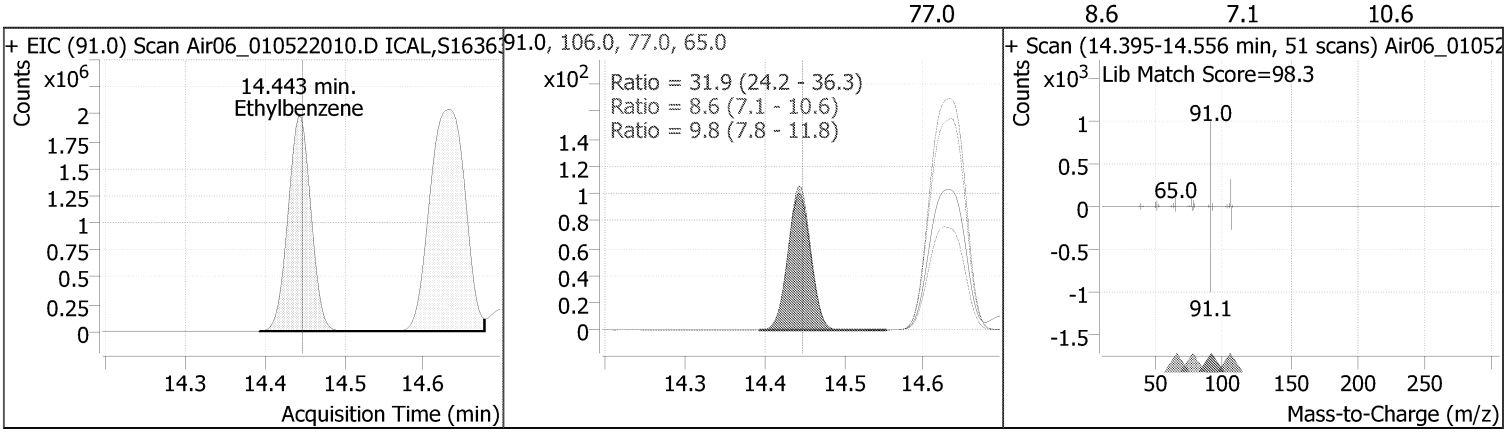
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 16.2019 | 14.04 | 0.00 | 1276179 | 133.0 | 95.8 | 76.9 | 115.3 |
| | | | | | 95.0 | 38.2 | 33.0 | 49.4 |
| | | | | | 61.0 | 28.9 | 25.4 | 38.1 |



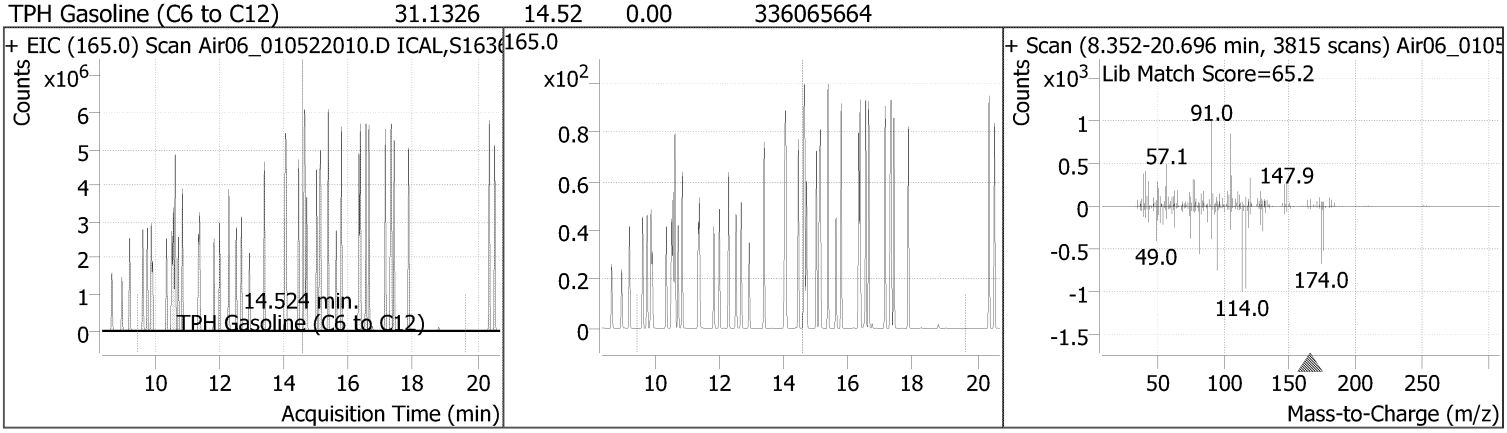

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 15.8483 | 14.06 | 0.00 | 2482494 | 77.0 | 59.9 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.5 | 25.8 | 38.7 |
| | | | | | 51.0 | 27.1 | 23.4 | 35.1 |



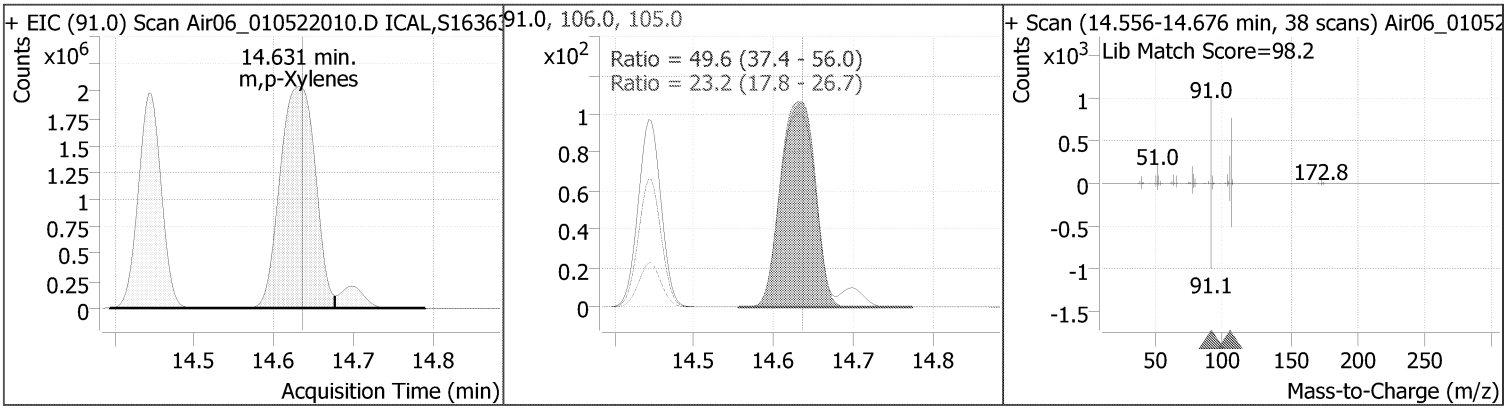

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 15.9512 | 14.44 | 0.00 | 3968750 | 106.0 | 31.9 | 24.2 | 36.3 |
| | | | | | 65.0 | 9.8 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.6 | 7.1 | 10.6 |



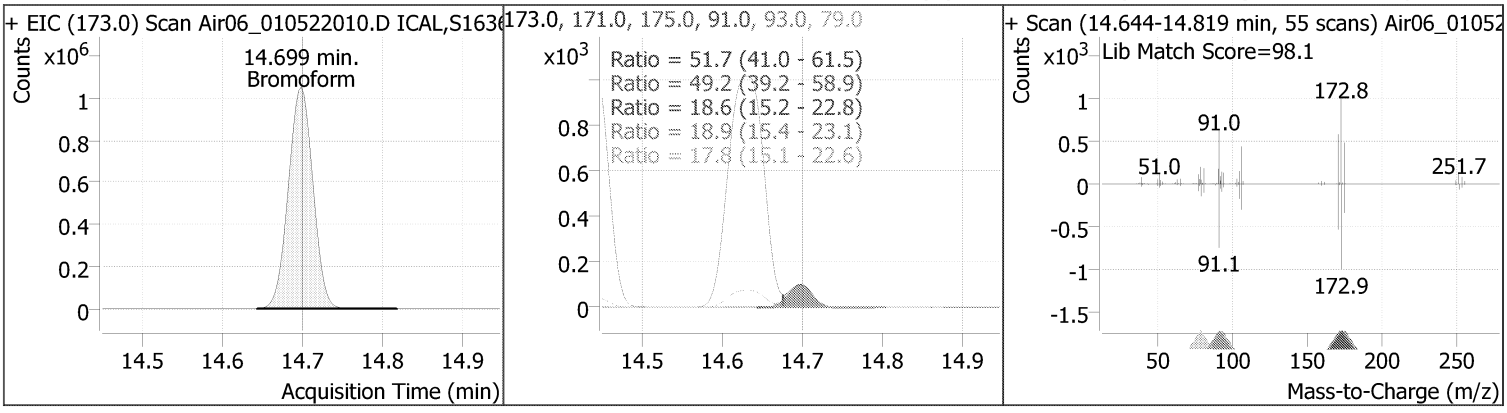
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 31.1326 | 14.52 | 0.00 | 336065664 | | | | |



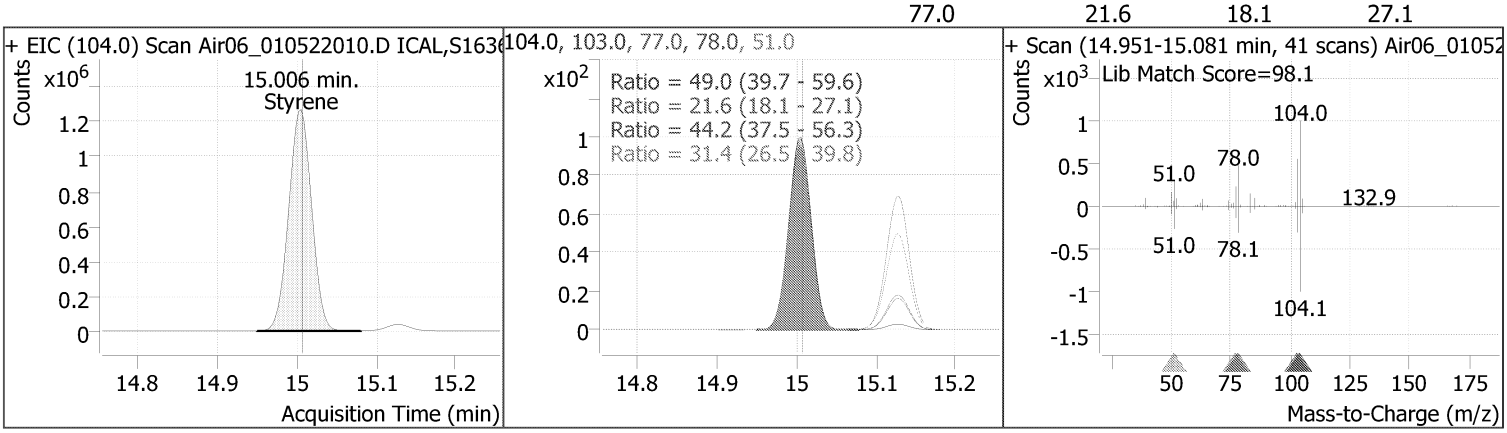

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 31.3470 | 14.63 | 0.00 | 6290741 | 106.0 | 49.6 | 37.4 | 56.0 |
| | | | | | 105.0 | 23.2 | 17.8 | 26.7 |



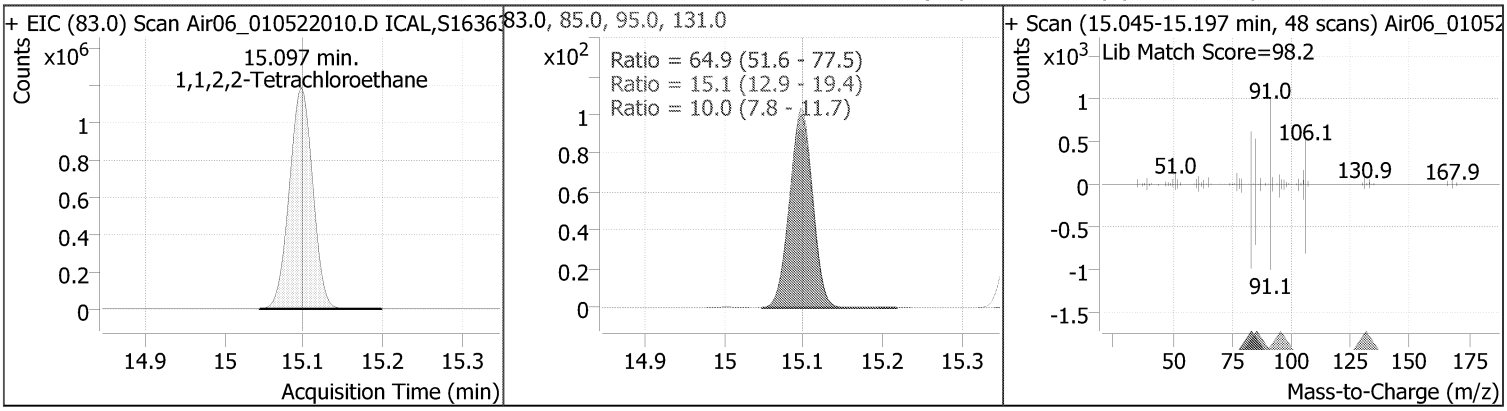

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 16.5317 | 14.70 | 0.00 | 2257556 | 171.0 | 51.7 | 41.0 | 61.5 |
| | | | | | 175.0 | 49.2 | 39.2 | 58.9 |
| | | | | | 93.0 | 18.9 | 15.4 | 23.1 |
| | | | | | 91.0 | 18.6 | 15.2 | 22.8 |
| | | | | | 79.0 | 17.8 | 15.1 | 22.6 |



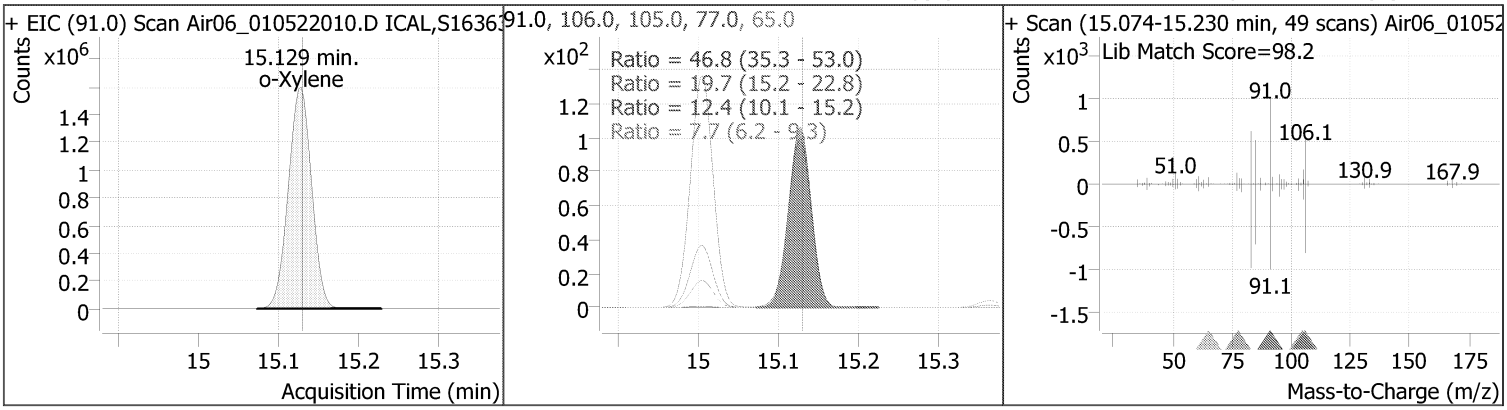
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 16.0759 | 15.01 | 0.00 | 2544476 | 103.0 | 49.0 | 39.7 | 59.6 |
| | | | | | 78.0 | 44.2 | 37.5 | 56.3 |
| | | | | | 51.0 | 31.4 | 26.5 | 39.8 |
| | | | | | 77.0 | 21.6 | 18.1 | 27.1 |



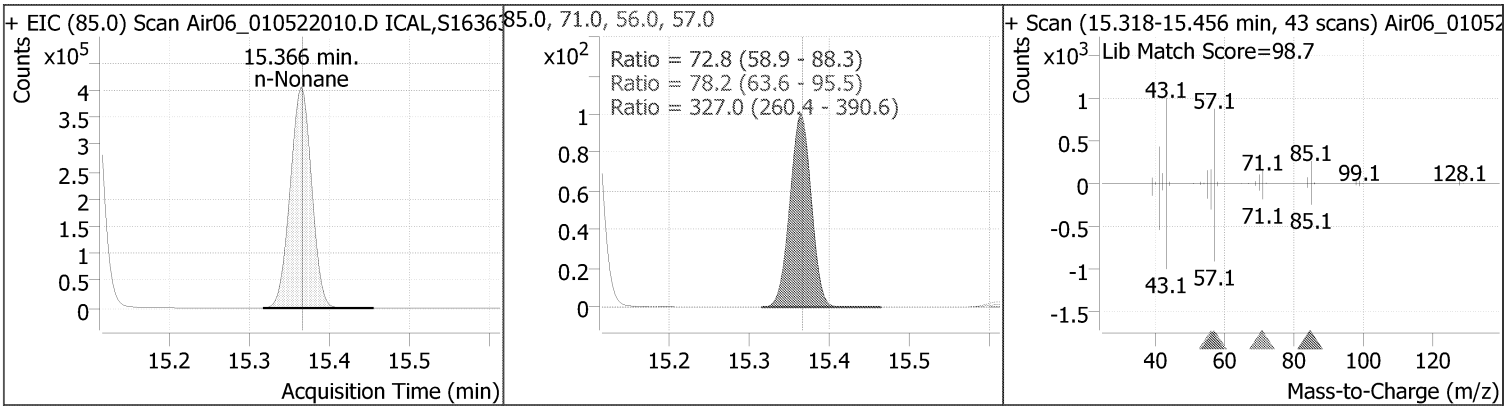

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 16.0608 | 15.10 | 0.00 | 2424959 | 85.0 | 64.9 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.1 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.0 | 7.8 | 11.7 |



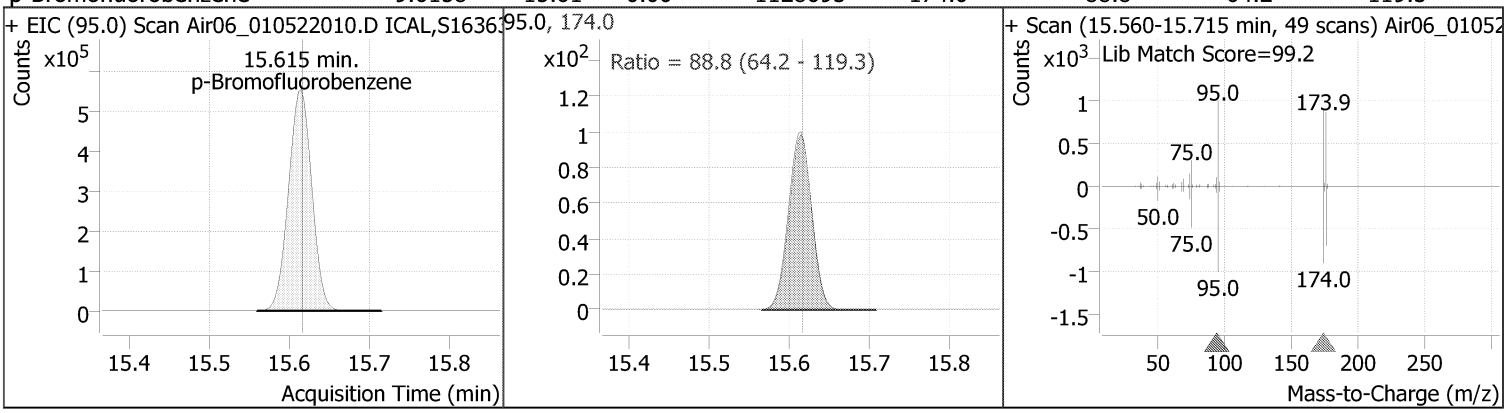

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 15.7366 | 15.13 | 0.00 | 3242487 | 106.0 | 46.8 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.7 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.4 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.7 | 6.2 | 9.3 |



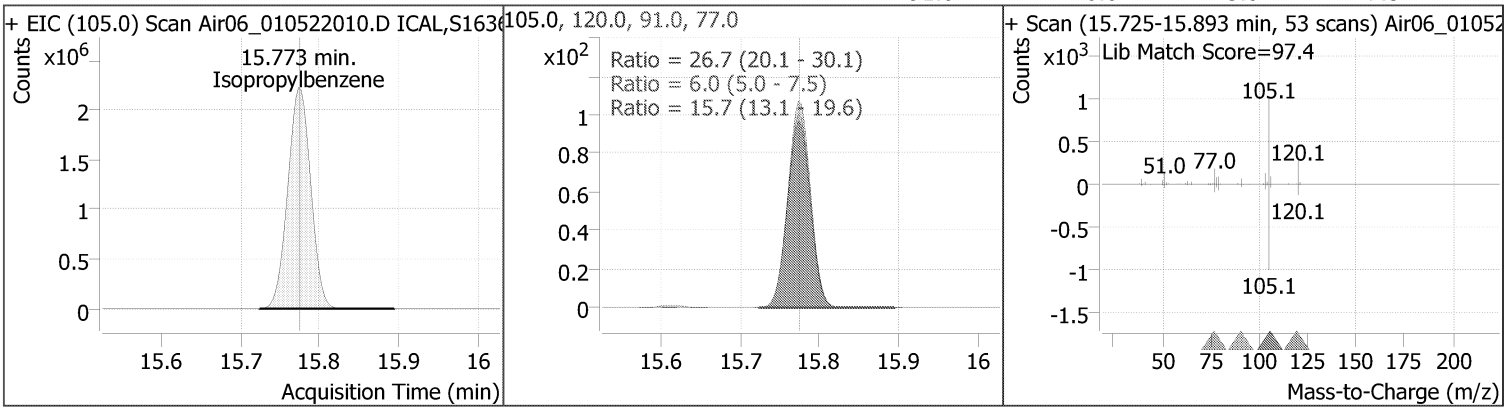
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 15.9240 | 15.37 | 0.00 | 755815 | 57.0 | 327.0 | 260.4 | 390.6 |
| | | | | | 56.0 | 78.2 | 63.6 | 95.5 |
| | | | | | 71.0 | 72.8 | 58.9 | 88.3 |



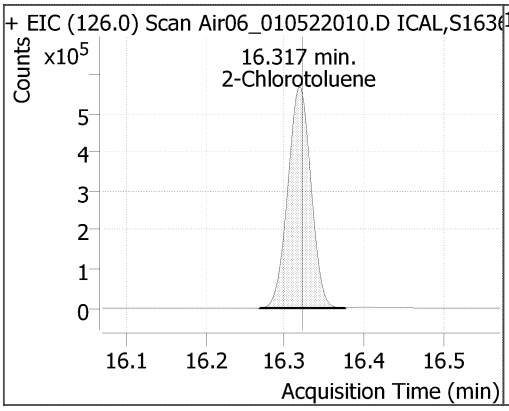

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 9.6158 | 15.61 | 0.00 | 1128693 | 174.0 | 88.8 | 64.2 | 119.3 |

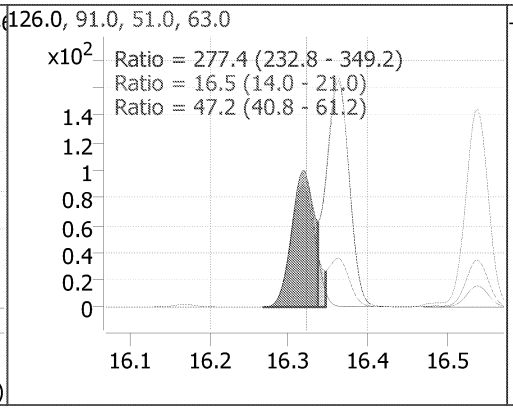


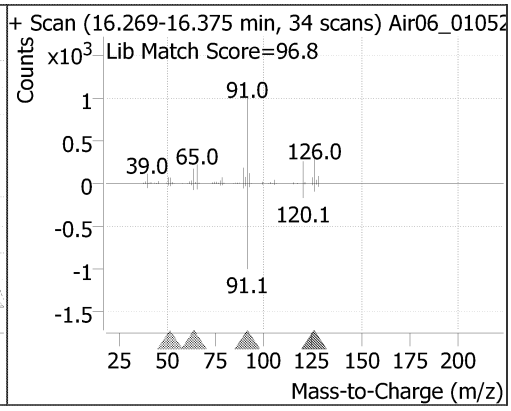

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 15.8181 | 15.77 | 0.00 | 4468556 | 120.0 | 26.7 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.7 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.0 | 5.0 | 7.5 |



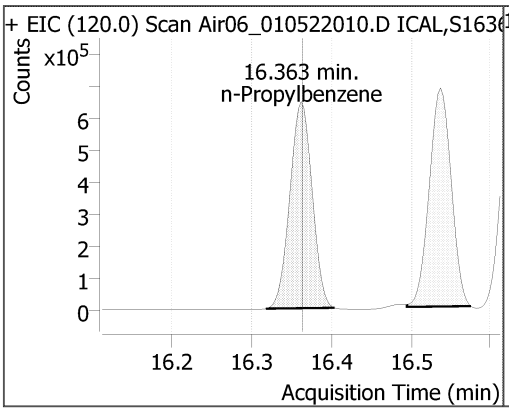
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 15.9913 | 16.32 | 0.00 | 1146853 | 91.0 | 277.4 | 232.8 | 349.2 |
| | | | | | 63.0 | 47.2 | 40.8 | 61.2 |
| | | | | | 51.0 | 16.5 | 14.0 | 21.0 |

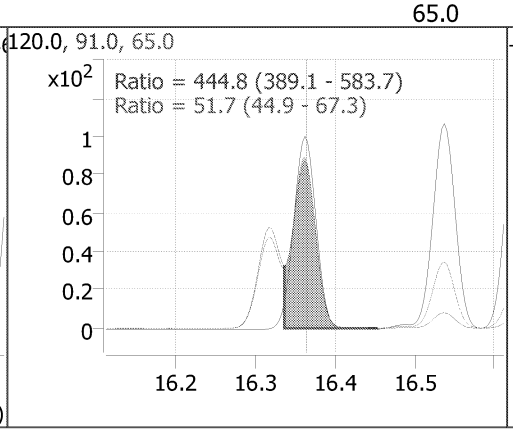


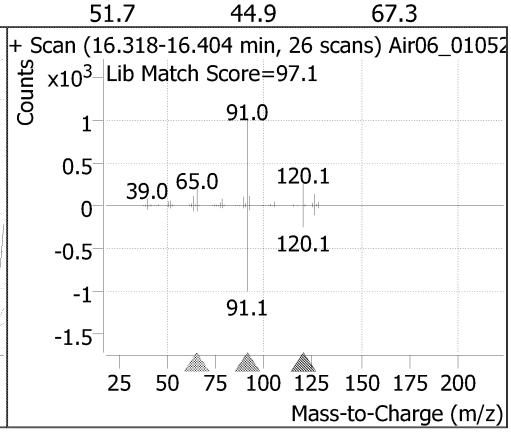



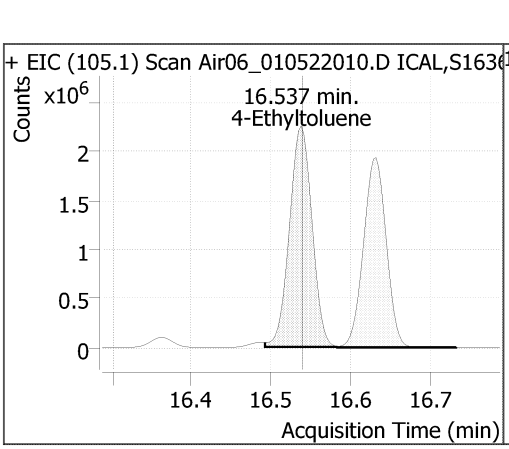

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 15.8801 | 16.36 | 0.00 | 1249473 | 91.0 | 444.8 | 389.1 | 583.7 |
| | | | | | 65.0 | 51.7 | 44.9 | 67.3 |

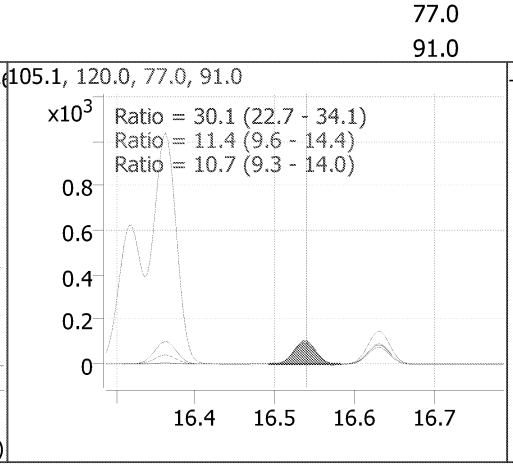


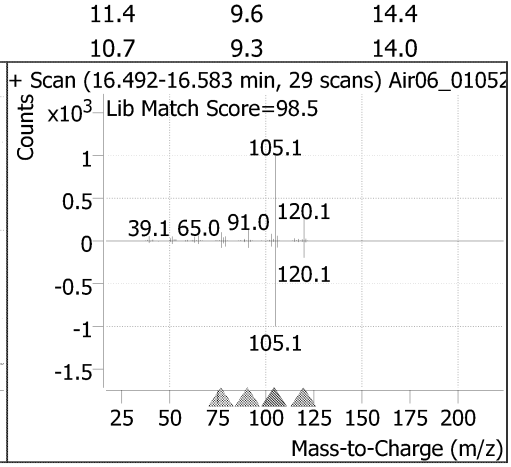



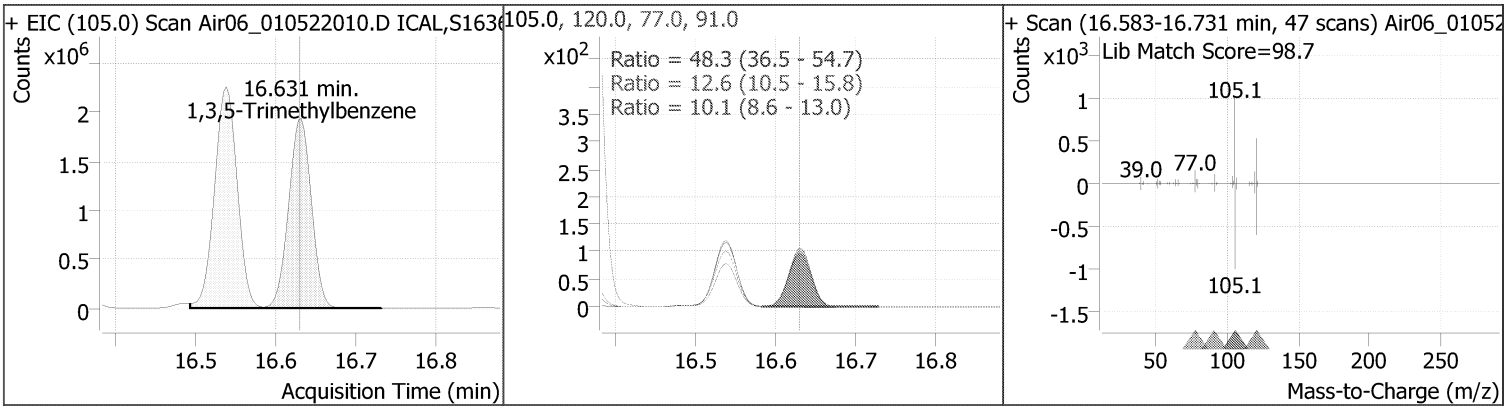

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 15.9202 | 16.54 | 0.00 | 4446578 | 120.0 | 30.1 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.4 | 9.6 | 14.4 |
| | | | | | 91.0 | 10.7 | 9.3 | 14.0 |



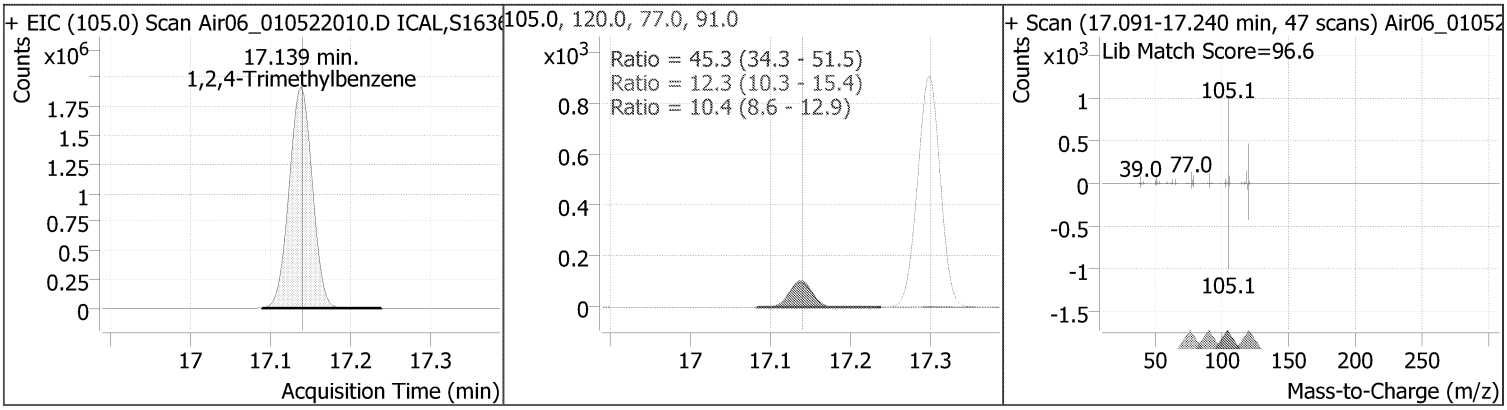



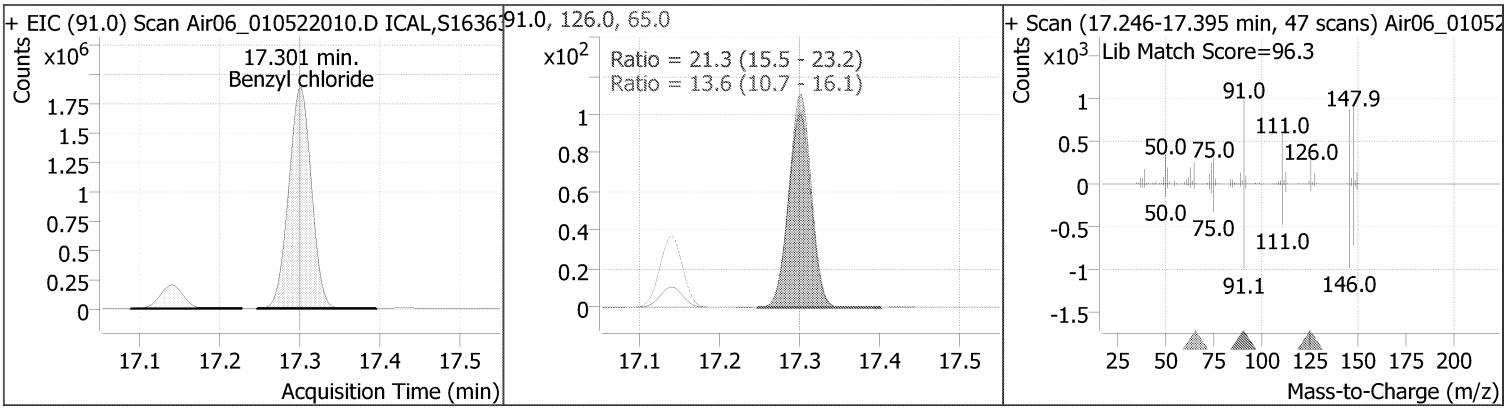
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 15.9296 | 16.63 | 0.00 | 3851242 | 120.0 | 48.3 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.6 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.1 | 8.6 | 13.0 |



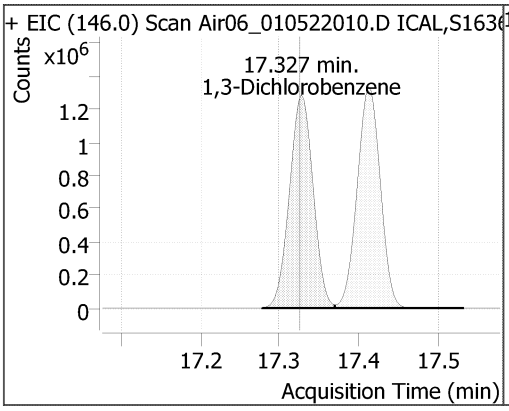

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 16.1577 | 17.14 | 0.00 | 3872329 | 120.0 | 45.3 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.3 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.4 | 8.6 | 12.9 |

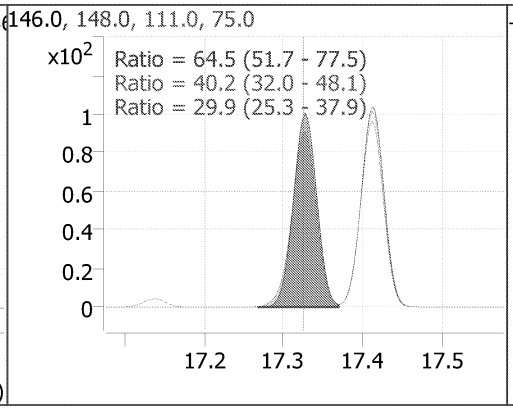


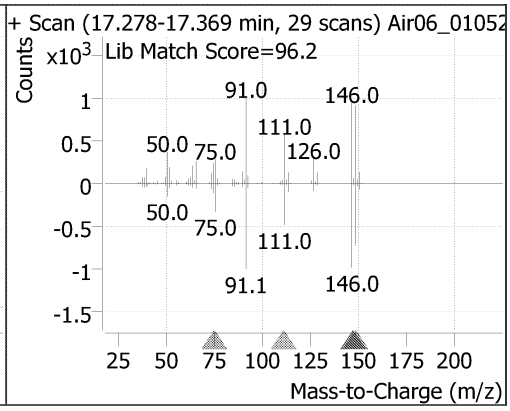

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 17.8688 | 17.30 | 0.00 | 3726690 | 126.0 | 21.3 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.6 | 10.7 | 16.1 |



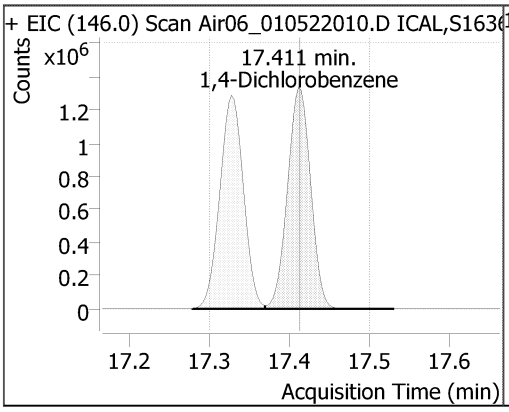
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 16.0995 | 17.33 | 0.00 | 2649838 | 148.0 | 64.5 | 51.7 | 77.5 |
| | | | | | 111.0 | 40.2 | 32.0 | 48.1 |
| | | | | | 75.0 | 29.9 | 25.3 | 37.9 |

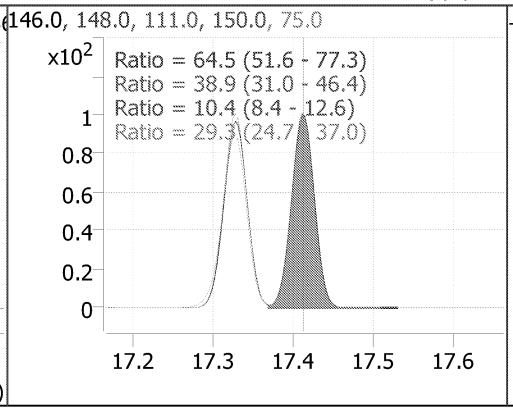


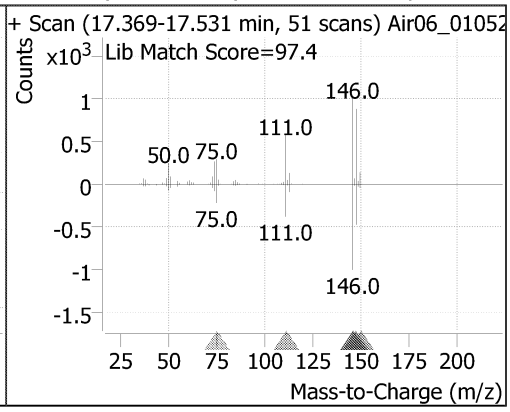



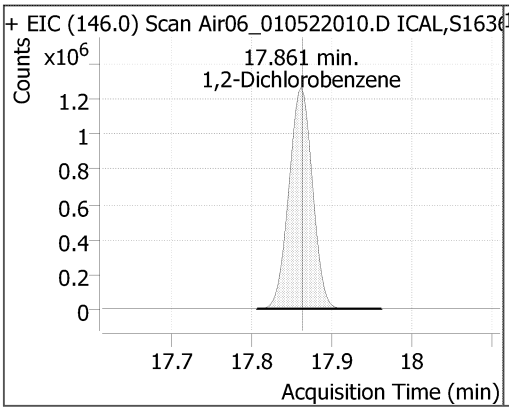

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 16.2048 | 17.41 | 0.00 | 2693488 | 148.0 | 64.5 | 51.6 | 77.3 |
| | | | | | 111.0 | 38.9 | 31.0 | 46.4 |
| | | | | | 75.0 | 29.3 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.4 | 8.4 | 12.6 |

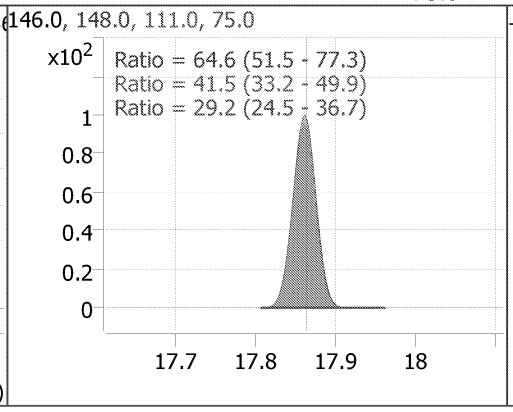


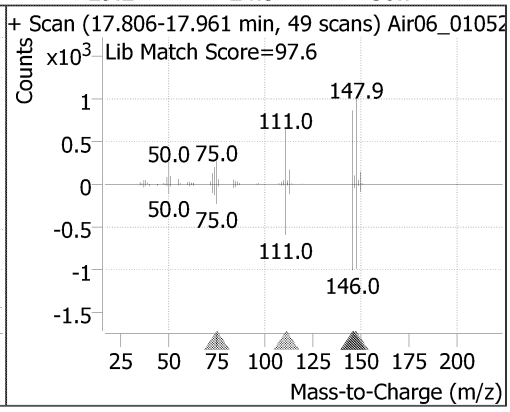



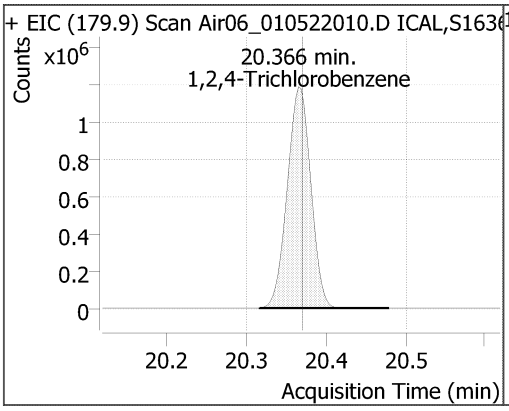

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 16.3125 | 17.86 | 0.00 | 2610654 | 148.0 | 64.6 | 51.5 | 77.3 |
| | | | | | 111.0 | 41.5 | 33.2 | 49.9 |
| | | | | | 75.0 | 29.2 | 24.5 | 36.7 |

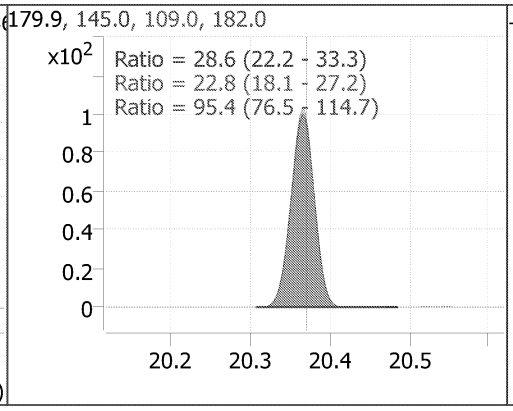


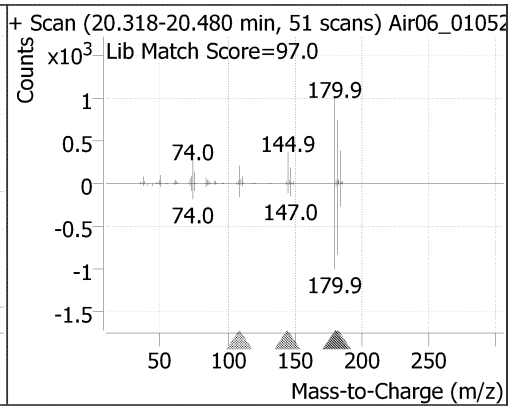



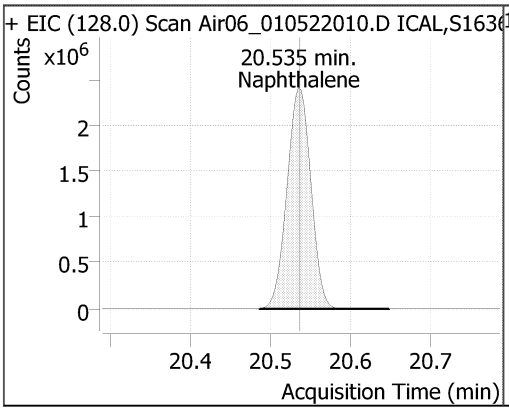
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 18.8893 | 20.37 | 0.00 | 2444730 | 182.0 | 95.4 | 76.5 | 114.7 |
| | | | | | 145.0 | 28.6 | 22.2 | 33.3 |
| | | | | | 109.0 | 22.8 | 18.1 | 27.2 |

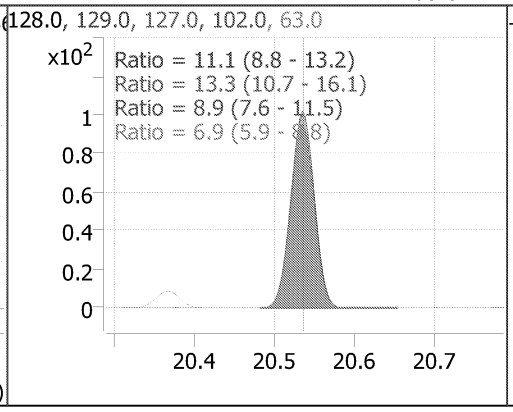


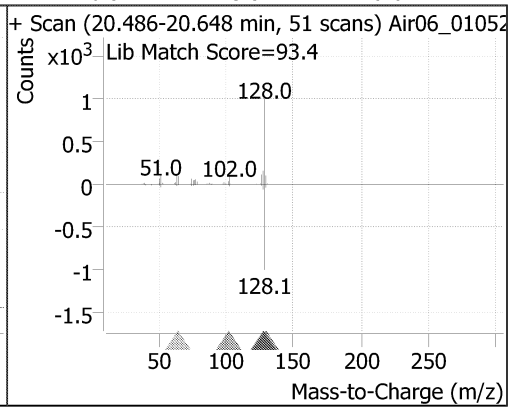



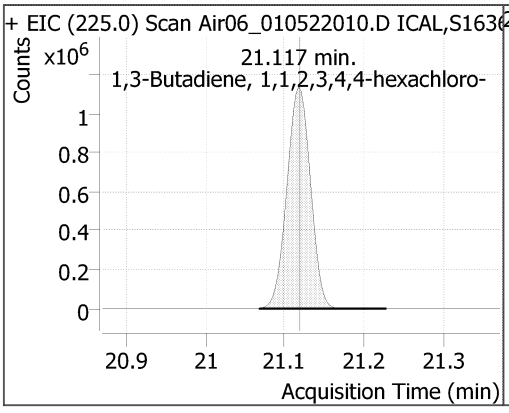

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 18.6675 | 20.53 | 0.00 | 5021259 | 127.0 | 13.3 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.1 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.9 | 7.6 | 11.5 |
| | | | | | 63.0 | 6.9 | 5.9 | 8.8 |

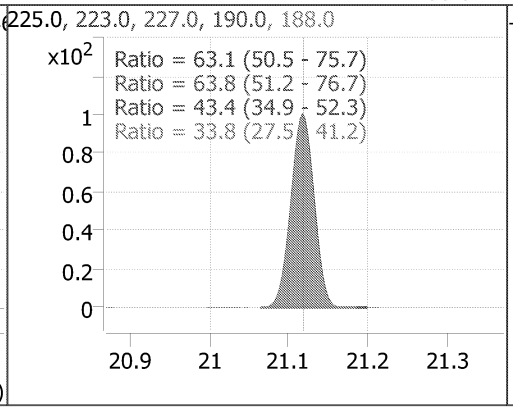


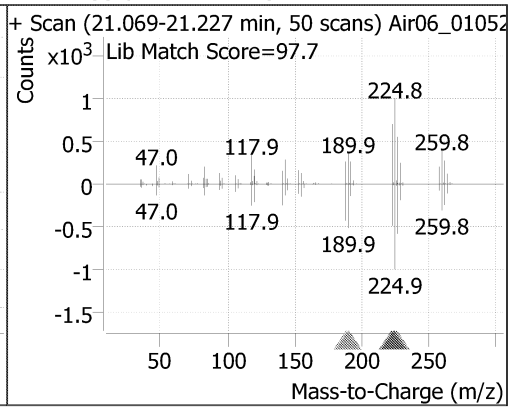




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 16.4848 | 21.12 | 0.00 | 2333906 | 227.0 | 63.8 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.1 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.4 | 34.9 | 52.3 |
| | | | | | 188.0 | 33.8 | 27.5 | 41.2 |

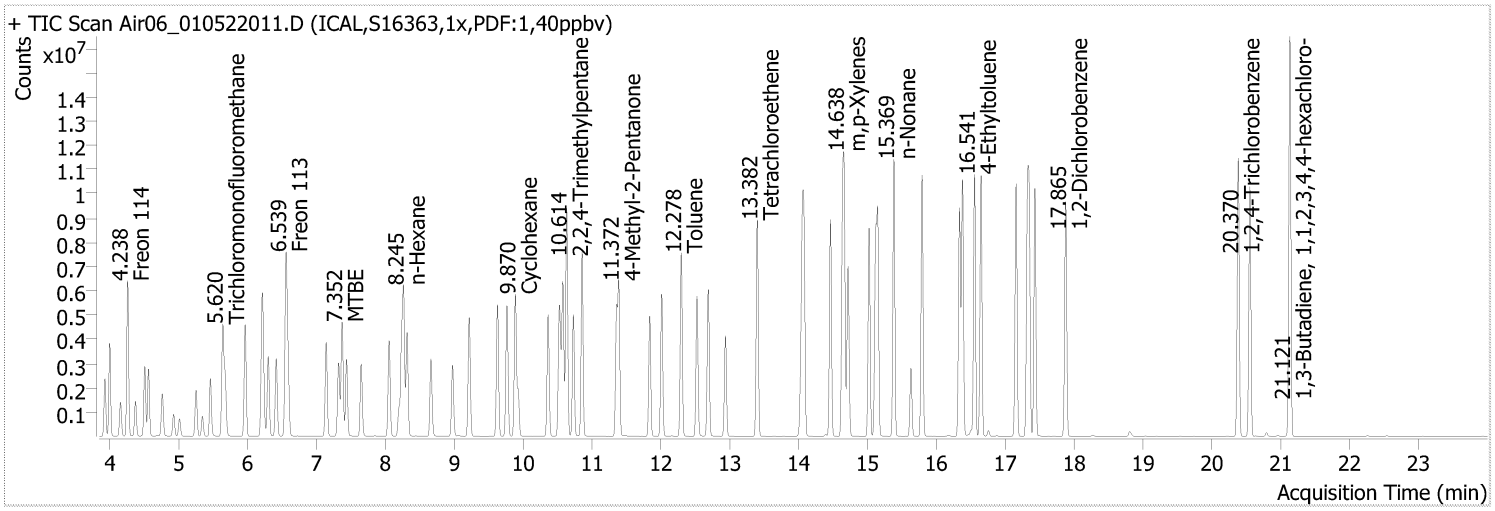


# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522011.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 10:09:59 PM |
| Sample Name | ICAL,S16363,1x,PDF:1,40ppbv | Instrument | Air-MS-06 |
| Vial | 7 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x400mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 05 1236 TO15_220105.m.batch.bin | Last Calib Update | 1/5/2022 10:34:35 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



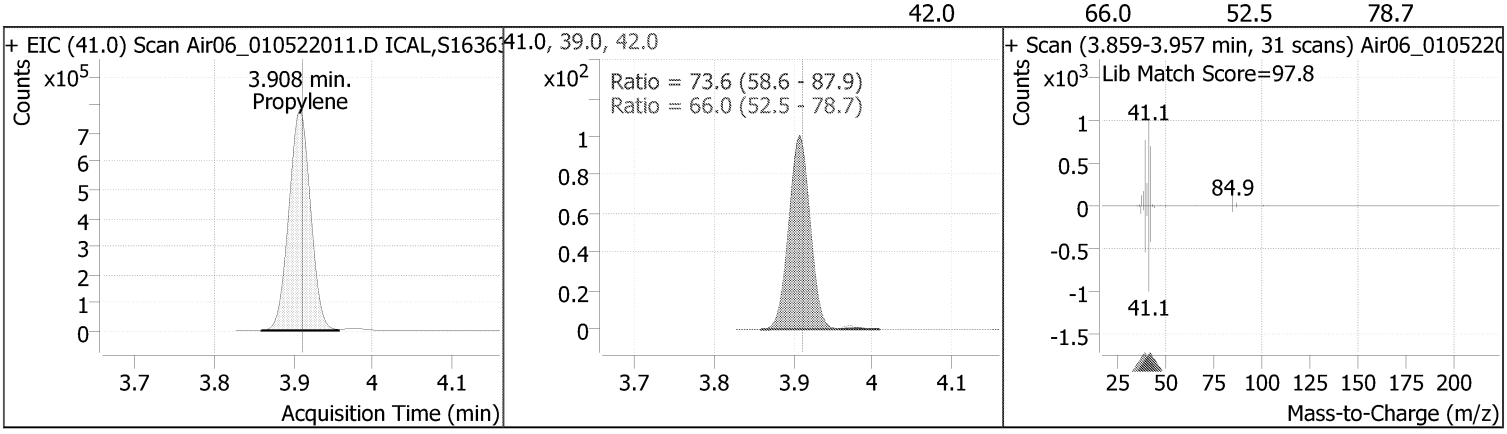

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 416709 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.912 | 114.0 | 1569050 | 10.0000 | nL/L | | 0.003 |
| M Chlorobenzene-d5 | 14.016 | 82.0 | 951287 | 10.0000 | nL/L | # | 0.003 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.615 | 95.0 | 1146602 | 9.1659 | nL/L | | 0.000 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 91.66% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.908 | 41.0 | 1489950 | 36.2957 | nL/L | | 100 |
| T Freon 12 | 3.979 | 85.0 | 3616681 | 33.3031 | nL/L | | 99 |
| T Chloromethane | 4.135 | 50.0 | 1715820 | 33.6245 | nL/L | | 100 |
| T Freon 114 | 4.238 | 135.0 | 2537860 | 33.1250 | nL/L | | 97 |
| T Vinyl Chloride | 4.351 | 62.0 | 1705059 | 33.4053 | nL/L | | 99 |
| T 1,3-Butadiene | 4.487 | 54.0 | 1481233 | 33.8861 | nL/L | | 97 |
| T Butane | 4.539 | 43.0 | 2770735 | 32.6579 | nL/L | | 98 |
| T Bromomethane | 4.740 | 96.0 | 1265852 | 33.6841 | nL/L | | 99 |
| T Chloroethane | 4.905 | 64.0 | 846447 | 33.6412 | nL/L | | 99 |
| T Ethanol | 4.989 | 45.0 | 897582 | 35.7187 | nL/L | | 100 |
| T Vinyl bromide | 5.232 | 108.0 | 1479459 | 33.5482 | nL/L | | 99 |
| T Acrolein | 5.322 | 56.0 | 764953 | 34.5063 | nL/L | | 99 |
| T Acetone | 5.439 | 58.0 | 915577 | 34.9585 | nL/L | | 97 |
| T Trichloromonofluoromethane | 5.620 | 101.0 | 4134553 | 32.3015 | nL/L | | 99 |
| T Isopropanol (IPA) | 5.656 | 45.0 | 3382200 | 36.0618 | nL/L | | 99 |
| T n-Pentane | 5.944 | 43.0 | 3474355 | 33.1407 | nL/L | | 100 |
| T 1,1-Dichloroethene | 6.187 | 61.0 | 3148316 | 33.0384 | nL/L | | 98 |
| T Tert-butyl alcohol (TBA) | 6.206 | 59.0 | 3722660 | 34.2991 | nL/L | | 99 |
| T Methylene Chloride | 6.280 | 84.0 | 1448929 | 31.4247 | nL/L | | 96 |
| T 3-Chloropropene | 6.397 | 76.0 | 711019 | 33.4518 | nL/L | | 100 |
| T Freon 113 | 6.539 | 101.0 | 3336781 | 32.4373 | nL/L | | 99 |
| T Carbon Disulfide | 6.569 | 76.0 | 4363062 | 32.7406 | nL/L | | 100 |

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 2679384 | 33.5726 | nL/L | 99 |
| T 1,1-Dichloroethane | 7.300 | 63.0 | 3294091 | 33.6153 | nL/L | 100 |
| T MTBE | 7.352 | 73.0 | 4347690 | 33.4812 | nL/L | 99 |
| T Vinyl Acetate | 7.417 | 43.0 | 5249807 | 30.6754 | nL/L | 99 |
| T 2-Butanone | 7.630 | 43.0 | 4244120 | 33.5035 | nL/L | 97 |
| T cis-1,2-Dichloroethene | 8.035 | 61.0 | 2720175 | 33.6982 | nL/L | 99 |
| T Ethyl Acetate | 8.216 | 61.0 | 686186 | 34.5021 | nL/L | 86 |
| T n-Hexane | 8.245 | 57.0 | 3061293 | 33.5160 | nL/L | 98 |
| T Chloroform | 8.297 | 83.0 | 3413449 | 33.1417 | nL/L | 99 |
| T Tetrahydrofuran | 8.643 | 72.0 | 775153 | 34.1196 | nL/L | 95 |
| T 1,2-Dichloroethane | 8.957 | 62.0 | 2539845 | 33.6774 | nL/L | 99 |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 3335619 | 33.4815 | nL/L | 98 |
| T Benzene | 9.611 | 78.0 | 4932571 | 33.2213 | nL/L | 99 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 3548262 | 33.3842 | nL/L | 99 |
| T Cyclohexane | 9.870 | 84.0 | 2050358 | 33.0529 | nL/L | 97 |
| T 1,2-Dichloropropane | 10.346 | 63.0 | 2235105 | 34.7775 | nL/L | 98 |
| T Methane, bromodichloro- | 10.508 | 83.0 | 3535024 | 33.7090 | nL/L | 99 |
| T 1,4-Dioxane | 10.530 | 88.0 | 1136016 | 33.8723 | nL/L | 98 |
| T Trichloroethene | 10.559 | 132.0 | 2175379 | 33.2732 | nL/L | 97 |
| T 2,2,4-Trimethylpentane | 10.614 | 57.0 | 9457885 | 32.3356 | nL/L | 99 |
| T Methyl methacrylate | 10.712 | 69.0 | 1892289 | 34.6849 | nL/L | 99 |
| T n-Heptane | 10.838 | 71.0 | 1707121 | 33.7866 | nL/L | 96 |
| T cis-1,3-Dichloropropene | 11.339 | 110.0 | 713221 | 34.9581 | nL/L | 90 |
| T 4-Methyl-2-Pentanone | 11.372 | 58.0 | 1934475 | 34.3181 | nL/L | 95 |
| T trans-1,3-Dichloropropene | 11.822 | 110.0 | 739538 | 35.3542 | nL/L | 89 |
| T 1,1,2-Trichloroethane | 11.996 | 97.0 | 2111655 | 34.5014 | nL/L | 99 |
| T Toluene | 12.278 | 91.0 | 6183431 | 33.2485 | nL/L | 99 |
| T TPH Gasoline (C3 to C12) | 12.403 | 165.0 | 824725162 | 53.8203 | nL/L | 100 |
| T 2-Hexanone | 12.508 | 58.0 | 2585158 | 35.7068 | nL/L | 96 |
| T Dibromochloromethane | 12.673 | 129.0 | 3808907 | 34.2802 | nL/L | 99 |
| T 1,2-Dibromoethane | 12.922 | 108.9 | 3220617 | 34.2035 | nL/L | 100 |
| T Tetrachloroethene | 13.382 | 166.0 | 3228763 | 33.5803 | nL/L | 97 |
| T 1,1,1,2-Tetrachloroethane | 14.039 | 131.0 | 2484806 | 30.2685 | nL/L | 98 |
| T Benzene, chloro- | 14.061 | 112.0 | 4829980 | 29.6489 | nL/L | 97 |
| T Ethylbenzene | 14.447 | 91.0 | 7689202 | 29.7099 | nL/L | 97 |
| T TPH Gasoline (C6 to C12) | 14.528 | 165.0 | 644067940 | 57.5443 | nL/L | 100 |
| T m,p-Xylenes | 14.638 | 91.0 | 12016984 | 57.7335 | nL/L | 95 |
| T Bromoform | 14.702 | 173.0 | 4384577 | 30.7552 | nL/L | 99 |
| T Styrene | 15.007 | 104.0 | 4989155 | 30.2468 | nL/L | 98 |
| T 1,1,2,2-Tetrachloroethane | 15.100 | 83.0 | 4740047 | 30.1360 | nL/L | 99 |
| T o-Xylene | 15.133 | 91.0 | 6260662 | 29.2557 | nL/L | 97 |
| T n-Nonane | 15.369 | 85.0 | 1488248 | 30.1026 | nL/L | 100 |
| T Isopropylbenzene | 15.777 | 105.0 | 8568680 | 29.2097 | nL/L | 97 |
| T 2-Chlorotoluene | 16.321 | 126.0 | 2253100 | 30.1556 | nL/L | 96 |
| T n-Propylbenzene | 16.366 | 120.0 | 2469065 | 30.1243 | nL/L | 77 |
| T 4-Ethyltoluene | 16.541 | 105.1 | 8555537 | 29.4717 | nL/L | 97 |
| T 1,3,5-Trimethylbenzene | 16.635 | 105.0 | 7412362 | 29.4958 | nL/L | 96 |
| T 1,2,4-Trimethylbenzene | 17.143 | 105.0 | 7503516 | 30.0624 | nL/L | 97 |
| T Benzyl chloride | 17.305 | 91.0 | 7253310 | 33.0494 | nL/L | 97 |
| T 1,3-Dichlorobenzene | 17.334 | 146.0 | 5084595 | 29.6993 | nL/L | 99 |
| T 1,4-Dichlorobenzene | 17.418 | 146.0 | 5207577 | 30.0807 | nL/L | 99 |
| T 1,2-Dichlorobenzene | 17.865 | 146.0 | 5107787 | 30.5891 | nL/L | 99 |
| T 1,2,4-Trichlorobenzene | 20.370 | 179.9 | 4949475 | 35.9712 | nL/L | 99 |
| T Naphthalene | 20.538 | 128.0 | 9910425 | 34.7988 | nL/L | 99 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.121 | 225.0 | 4561780 | 30.8531 | nL/L | 99 |

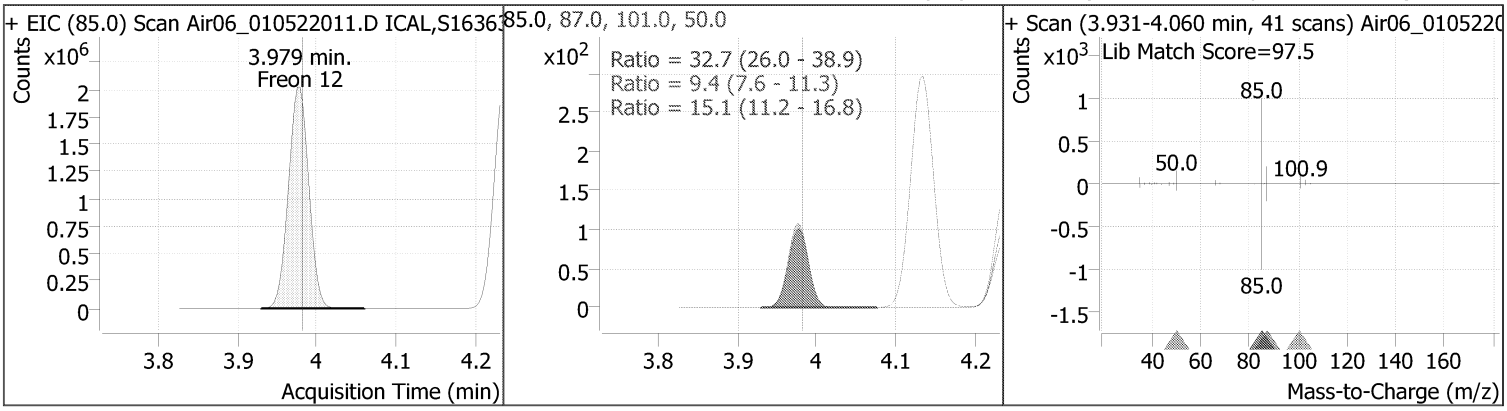
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

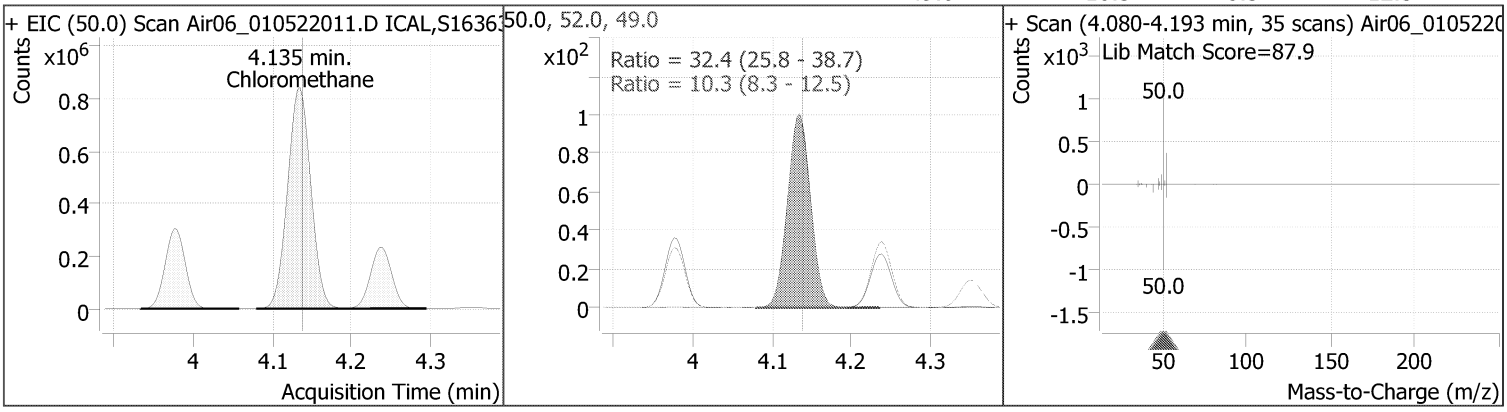
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 36.2957 | 3.91 | 0.00 | 1489950 | 39.0 | 73.6 | 58.6 | 87.9 |
| | | | | | 42.0 | 66.0 | 52.5 | 78.7 |



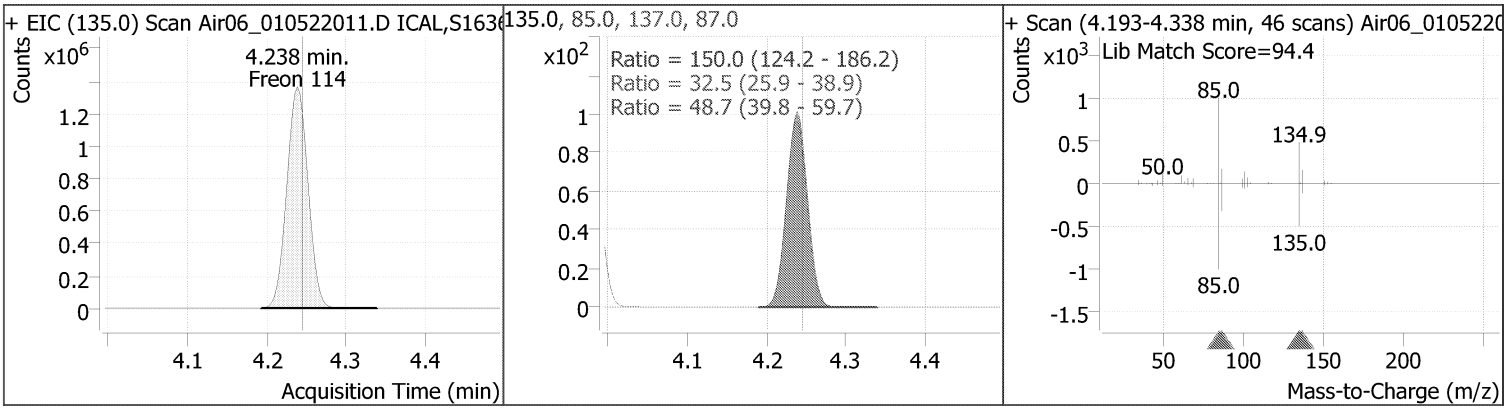

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 33.3031 | 3.98 | 0.00 | 3616681 | 87.0 | 32.7 | 26.0 | 38.9 |
| | | | | | 50.0 | 15.1 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.4 | 7.6 | 11.3 |



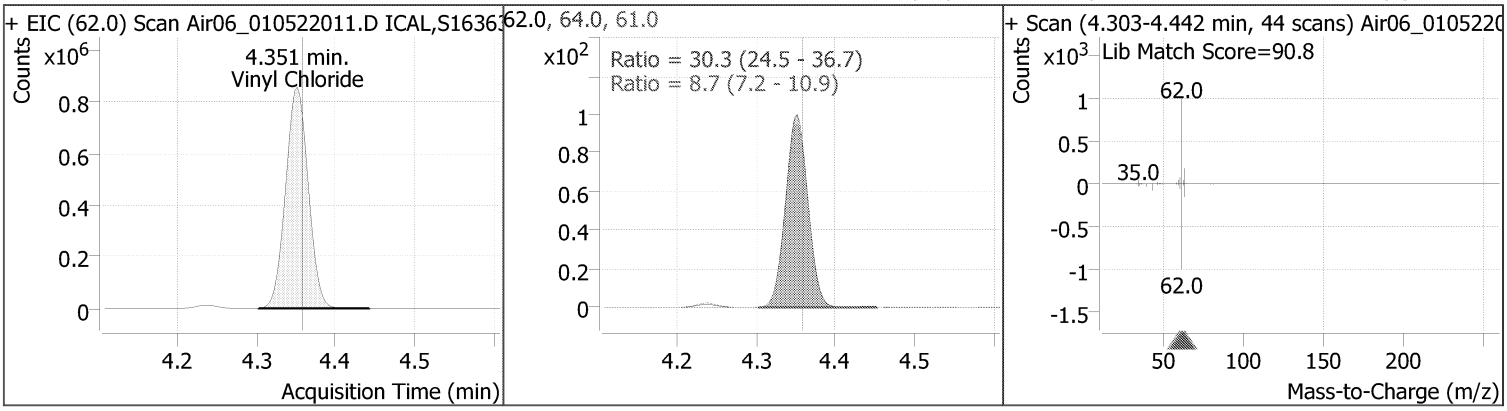

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 33.6245 | 4.13 | 0.00 | 1715820 | 52.0 | 32.4 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.3 | 8.3 | 12.5 |



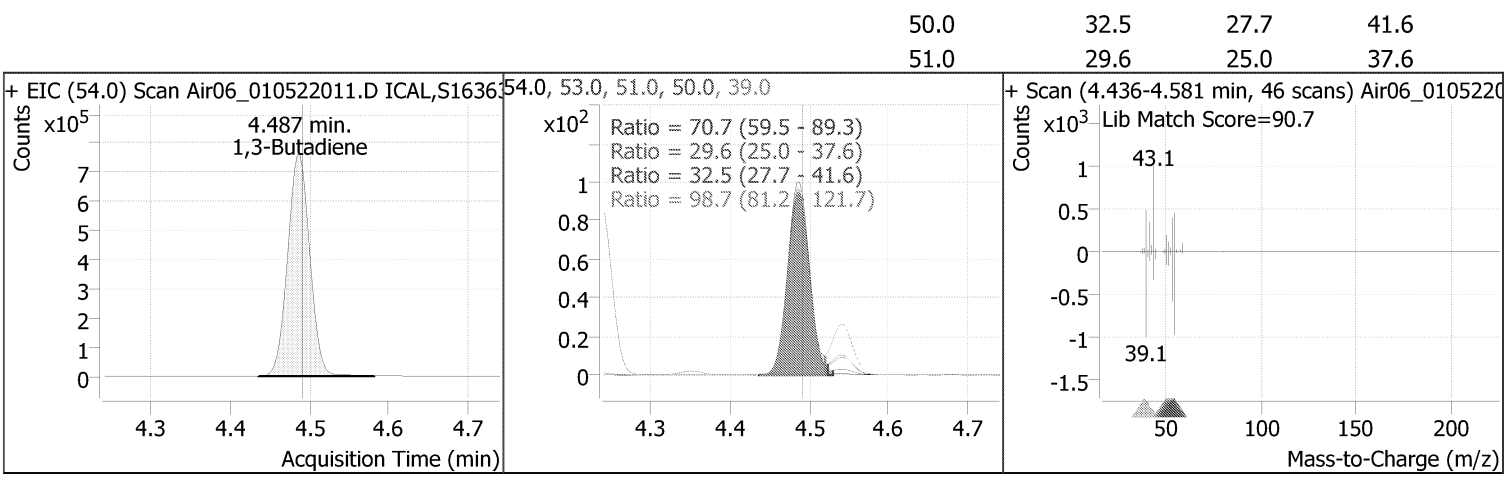
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 33.1250 | 4.24 | 0.00 | 2537860 | 85.0 | 150.0 | 124.2 | 186.2 |
| | | | | | 87.0 | 48.7 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.5 | 25.9 | 38.9 |



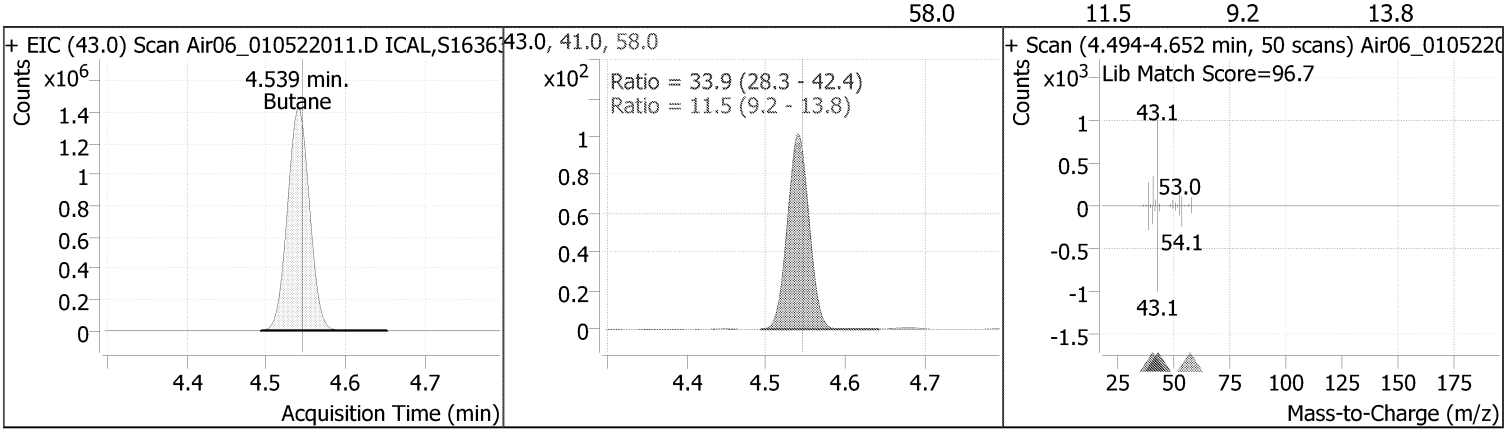

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 33.4053 | 4.35 | 0.00 | 1705059 | 64.0 | 30.3 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.7 | 7.2 | 10.9 |



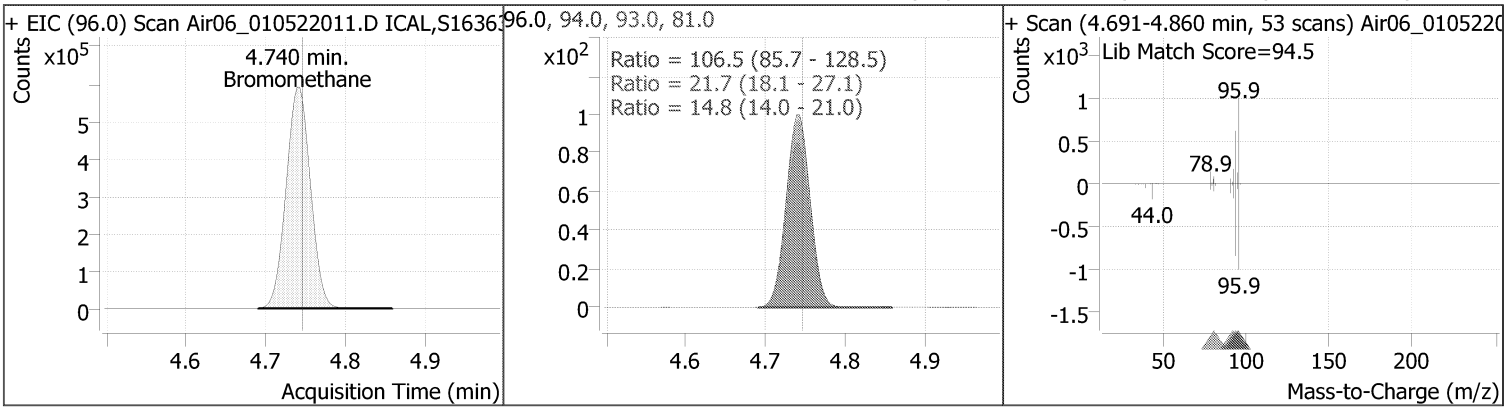

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 33.8861 | 4.49 | 0.00 | 1481233 | 39.0 | 98.7 | 81.2 | 121.7 |
| | | | | | 53.0 | 70.7 | 59.5 | 89.3 |
| | | | | | 50.0 | 32.5 | 27.7 | 41.6 |
| | | | | | 51.0 | 29.6 | 25.0 | 37.6 |



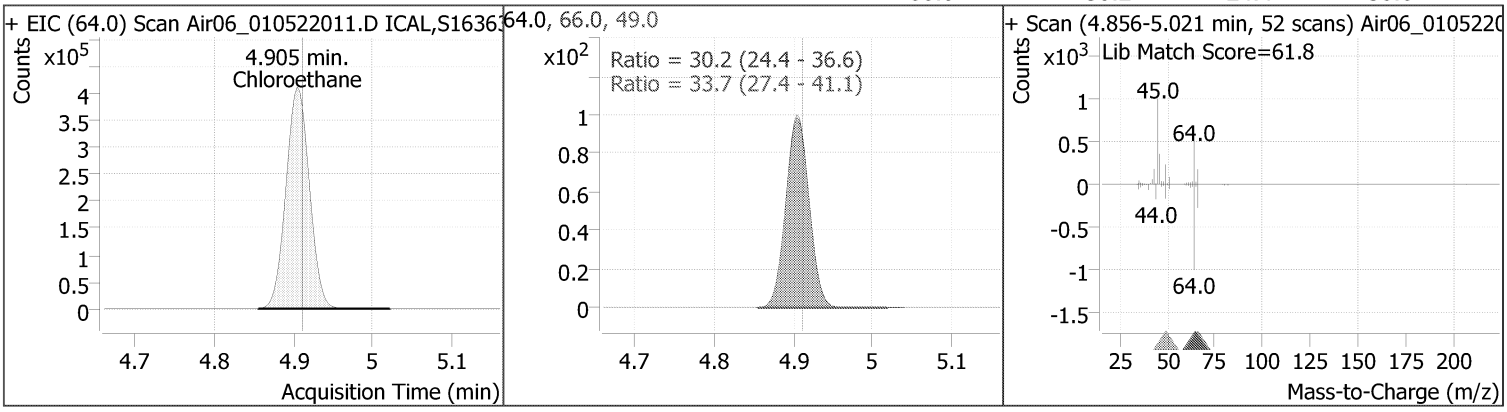
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 32.6579 | 4.54 | 0.00 | 2770735 | 41.0 | 33.9 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.5 | 9.2 | 13.8 |



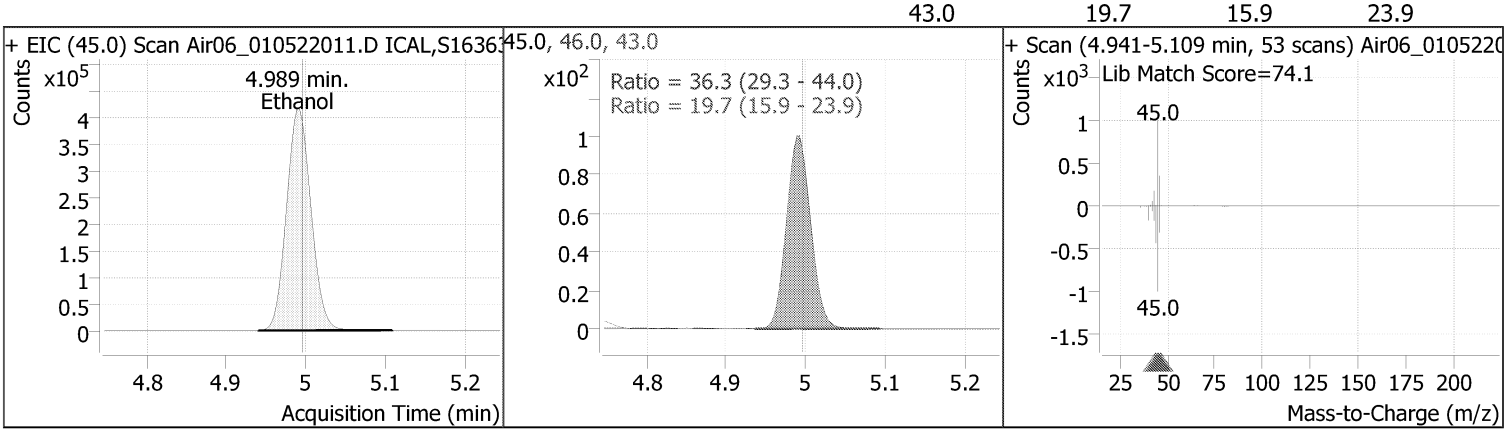

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 33.6841 | 4.74 | 0.00 | 1265852 | 94.0 | 106.5 | 85.7 | 128.5 |
| | | | | | 93.0 | 21.7 | 18.1 | 27.1 |
| | | | | | 81.0 | 14.8 | 14.0 | 21.0 |



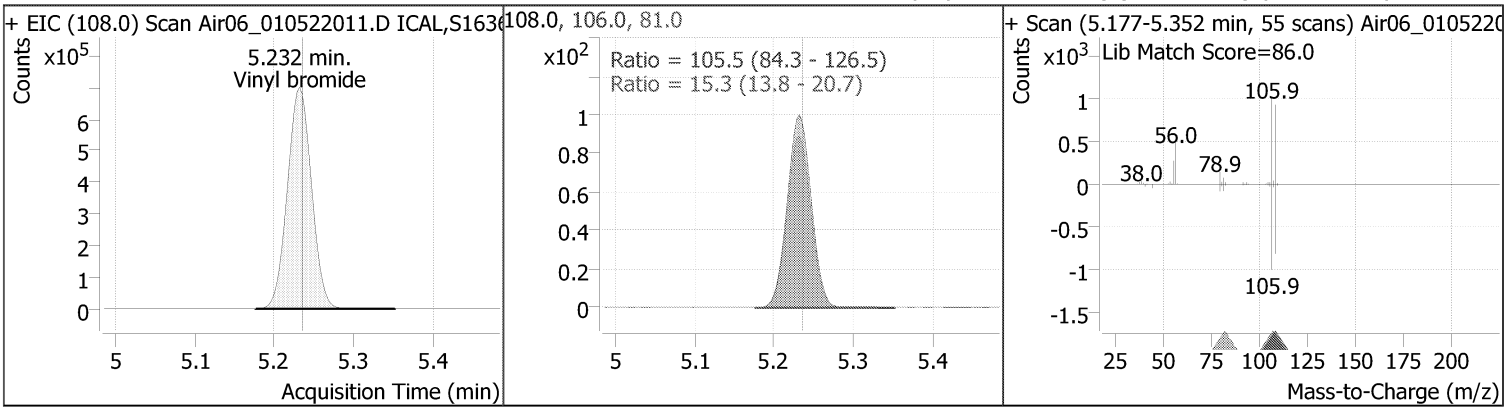

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 33.6412 | 4.90 | 0.00 | 846447 | 49.0 | 33.7 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.2 | 24.4 | 36.6 |



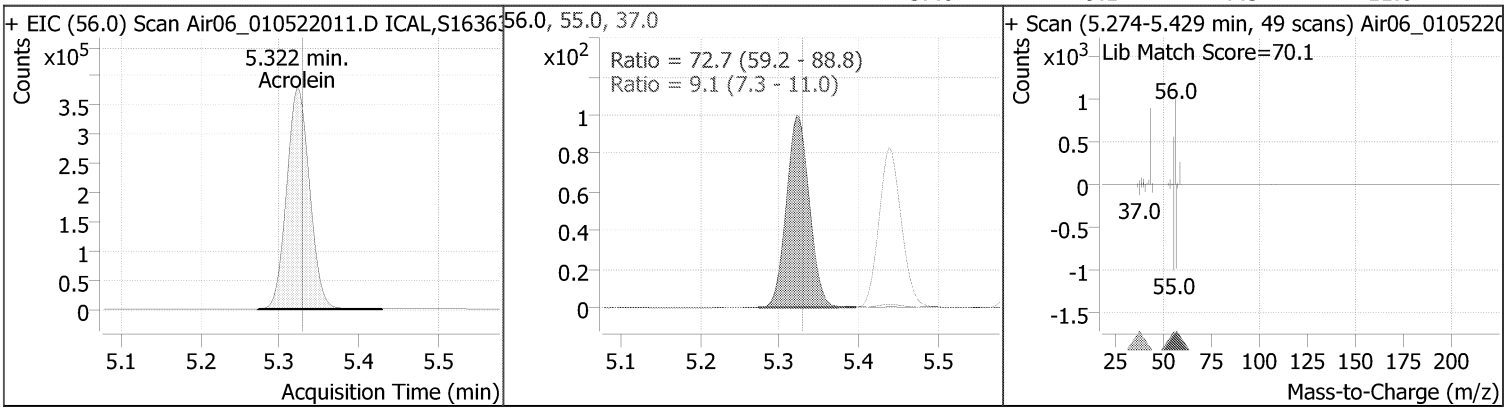
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 35.7187 | 4.99 | 0.00 | 897582 | 46.0 | 36.3 | 29.3 | 44.0 |
| | | | | | 43.0 | 19.7 | 15.9 | 23.9 |



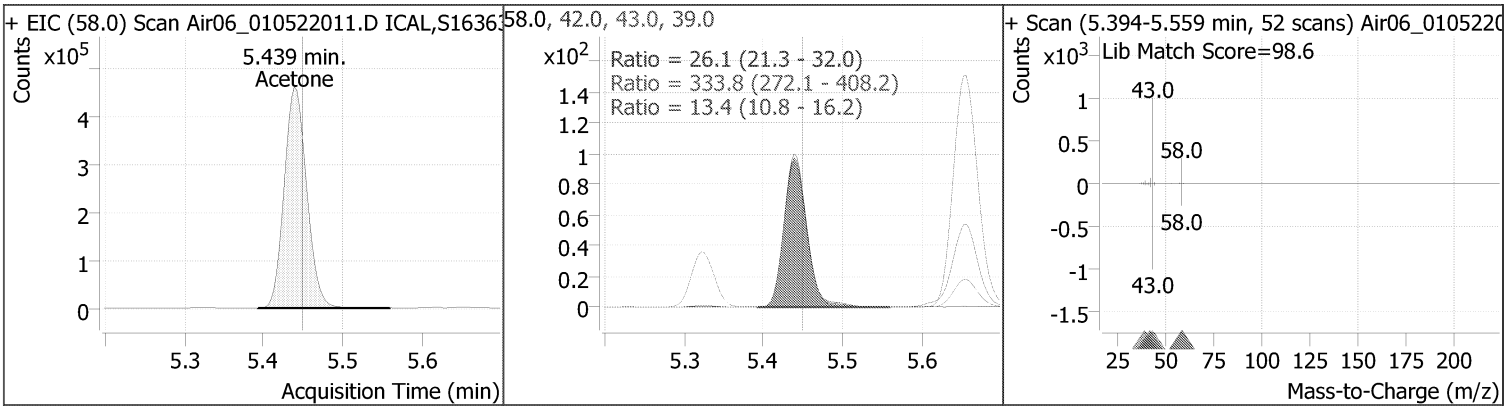

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 33.5482 | 5.23 | 0.00 | 1479459 | 106.0 | 105.5 | 84.3 | 126.5 |
| | | | | | 81.0 | 15.3 | 13.8 | 20.7 |



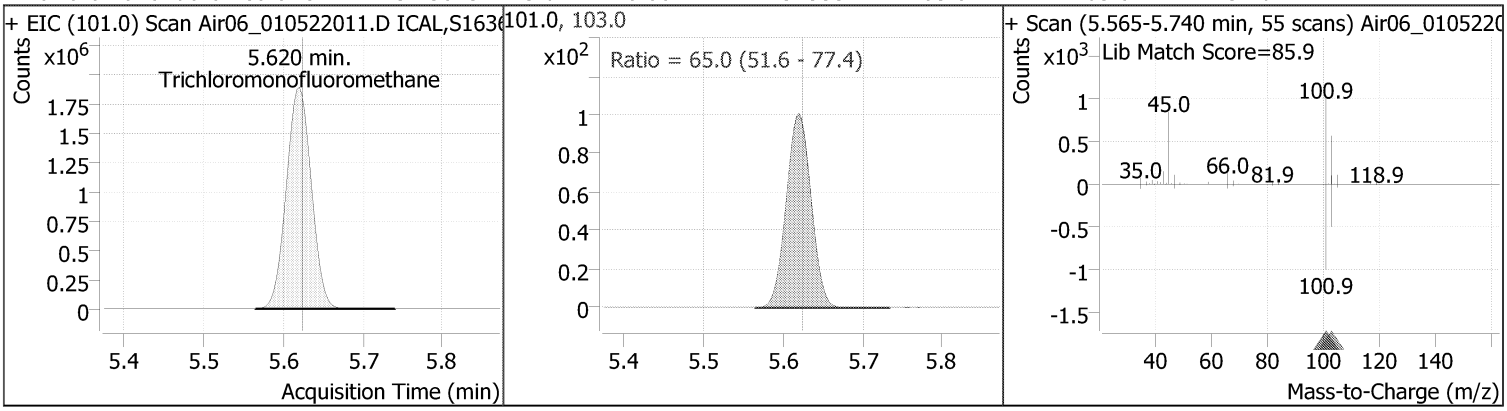

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 34.5063 | 5.32 | 0.00 | 764953 | 55.0 | 72.7 | 59.2 | 88.8 |
| | | | | | 37.0 | 9.1 | 7.3 | 11.0 |



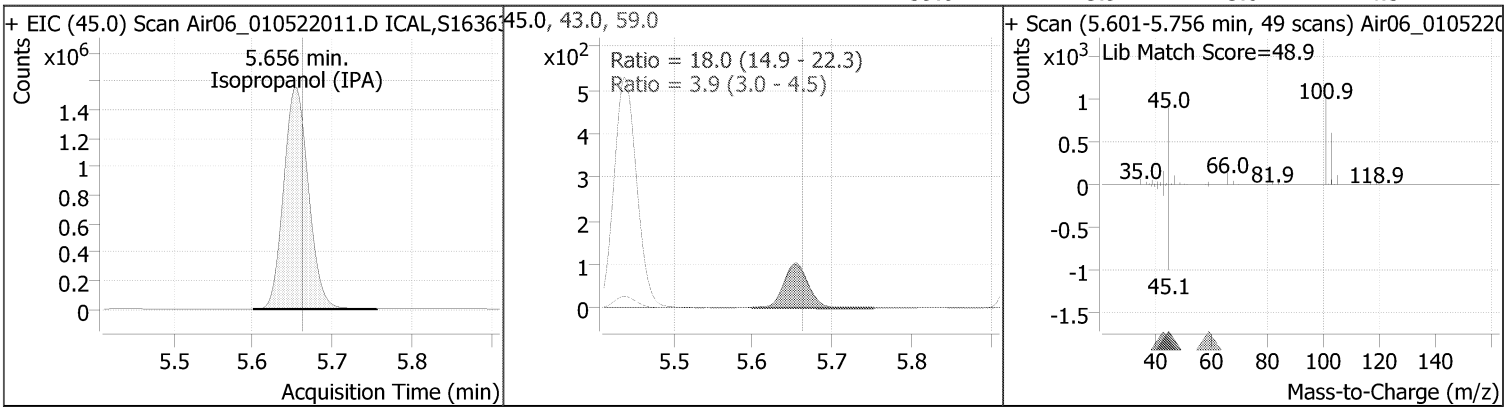
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 34.9585 | 5.44 | -0.01 | 915577 | 43.0 | 333.8 | 272.1 | 408.2 |
| | | | | | 42.0 | 26.1 | 21.3 | 32.0 |
| | | | | | 39.0 | 13.4 | 10.8 | 16.2 |



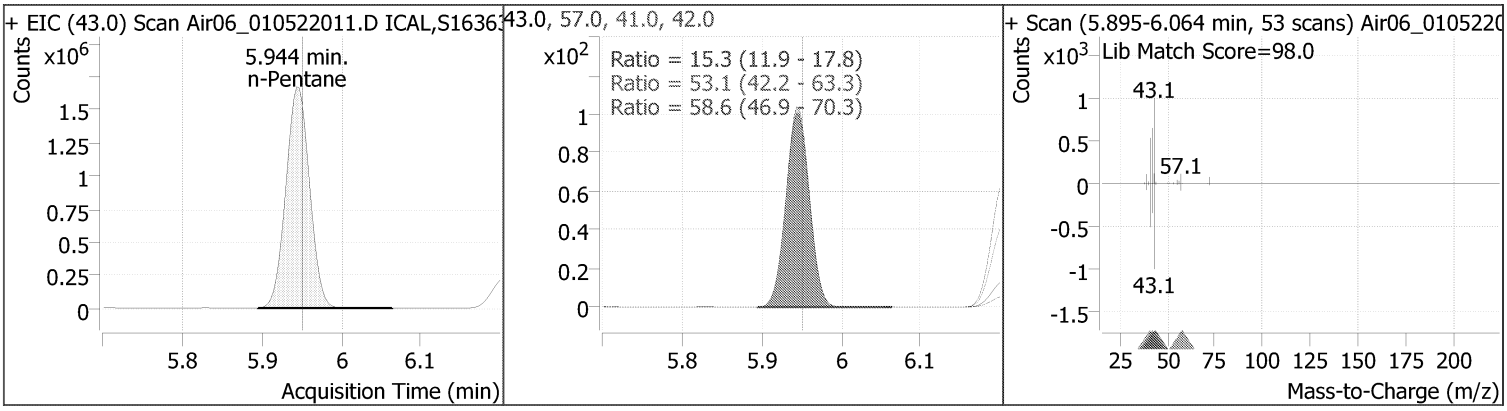

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 32.3015 | 5.62 | 0.00 | 4134553 | 103.0 | 65.0 | 51.6 | 77.4 |



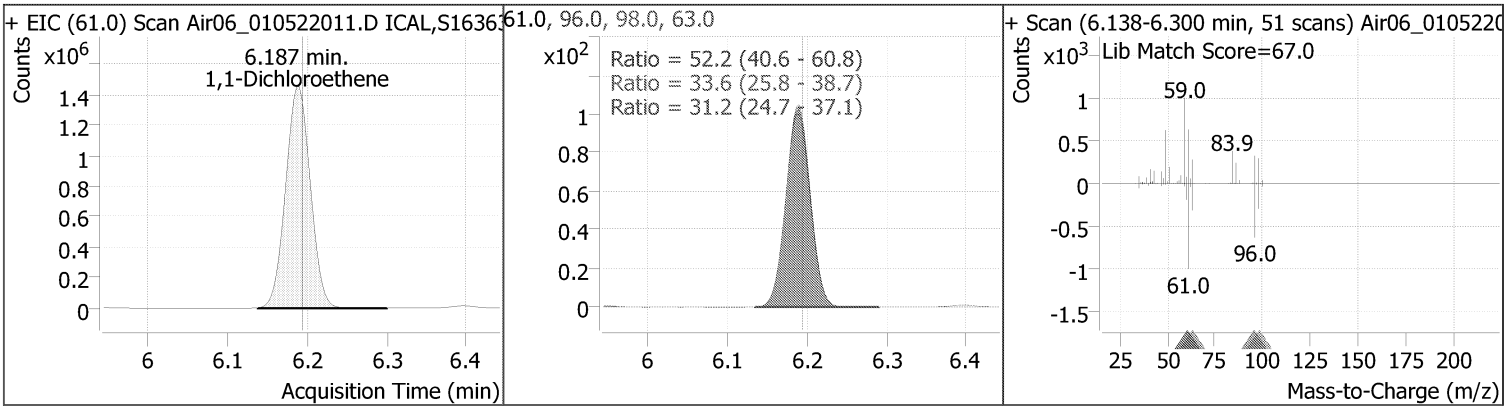

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 36.0618 | 5.66 | 0.00 | 3382200 | 43.0 | 18.0 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.9 | 3.0 | 4.5 |



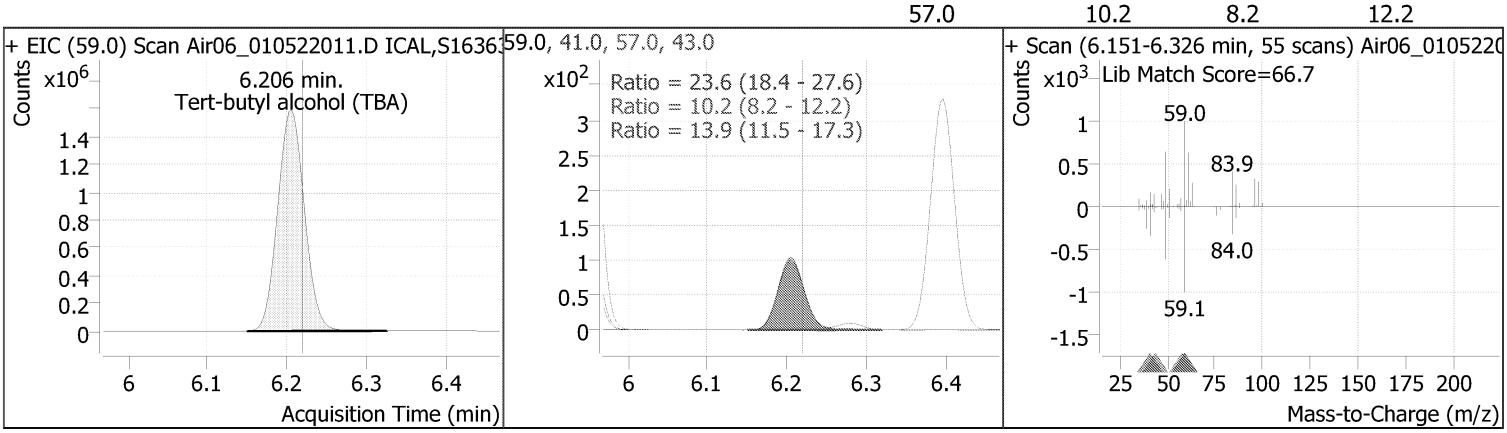
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 33.1407 | 5.94 | 0.00 | 3474355 | 42.0 | 58.6 | 46.9 | 70.3 |
| | | | | | 41.0 | 53.1 | 42.2 | 63.3 |
| | | | | | 57.0 | 15.3 | 11.9 | 17.8 |



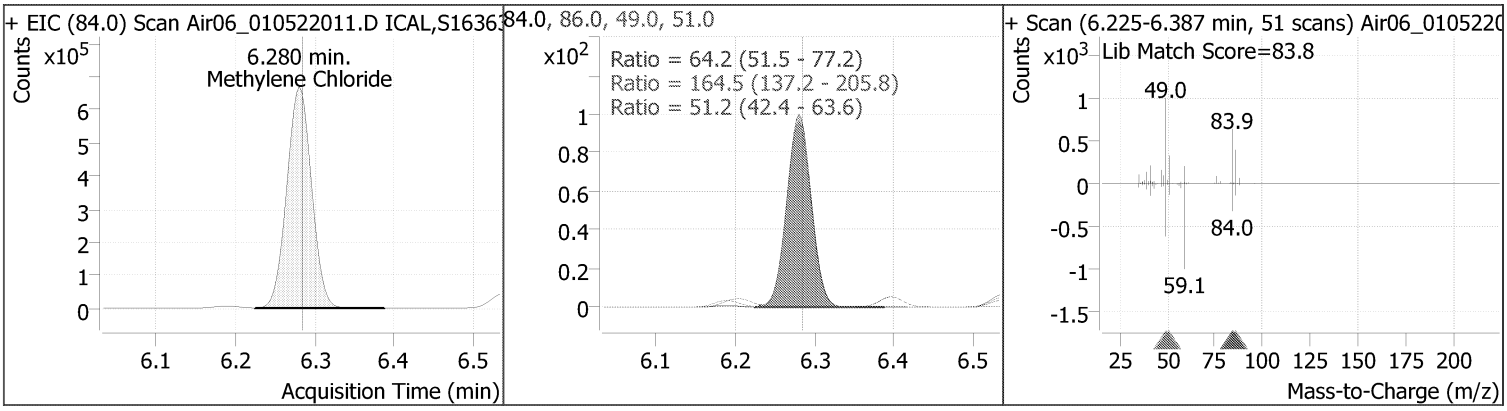

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 33.0384 | 6.19 | 0.00 | 3148316 | 96.0 | 52.2 | 40.6 | 60.8 |
| | | | | | 98.0 | 33.6 | 25.8 | 38.7 |
| | | | | | 63.0 | 31.2 | 24.7 | 37.1 |



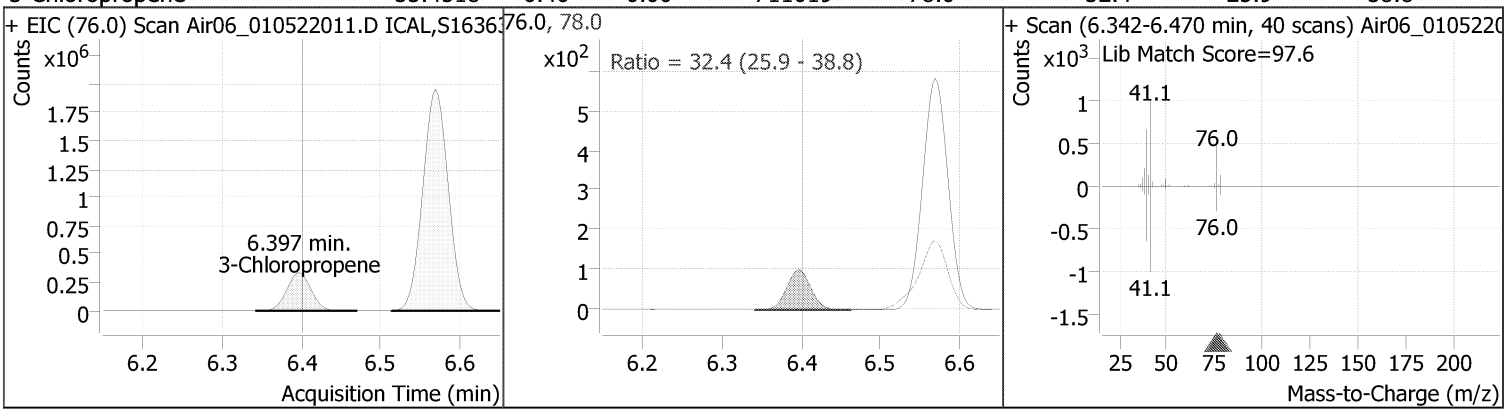

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 34.2991 | 6.21 | -0.01 | 3722660 | 41.0 | 23.6 | 18.4 | 27.6 |
| | | | | | 43.0 | 13.9 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.2 | 8.2 | 12.2 |



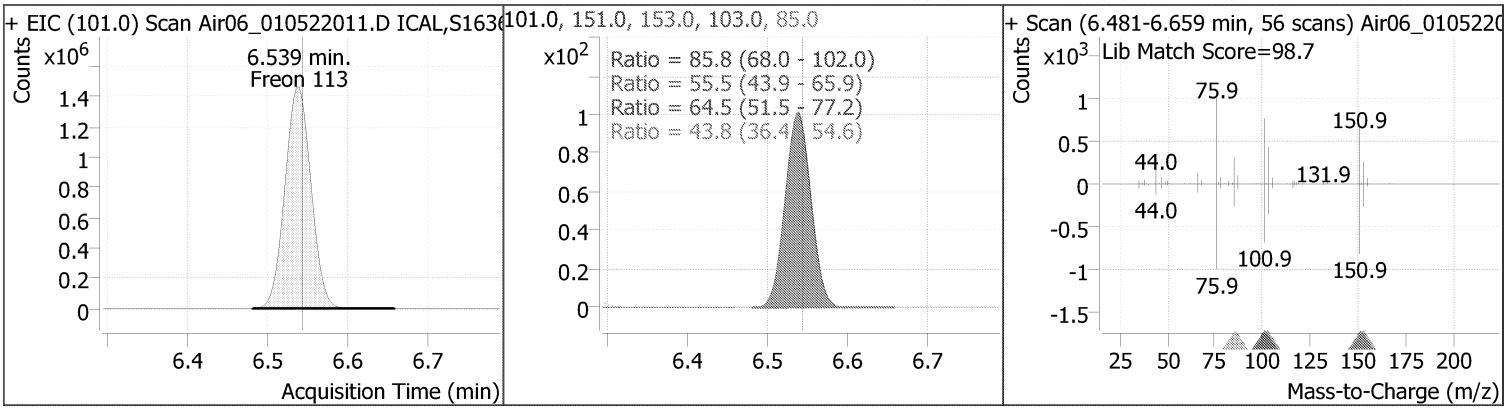
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 31.4247 | 6.28 | 0.00 | 1448929 | 49.0 | 164.5 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.2 | 51.5 | 77.2 |
| | | | | | 51.0 | 51.2 | 42.4 | 63.6 |



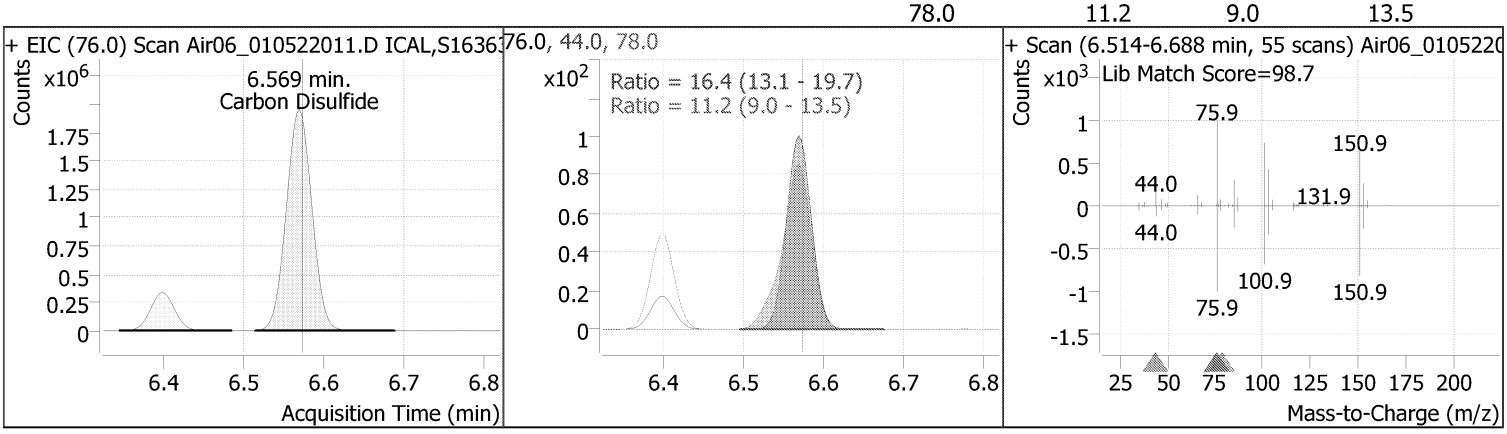

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 33.4518 | 6.40 | 0.00 | 711019 | 78.0 | 32.4 | 25.9 | 38.8 |



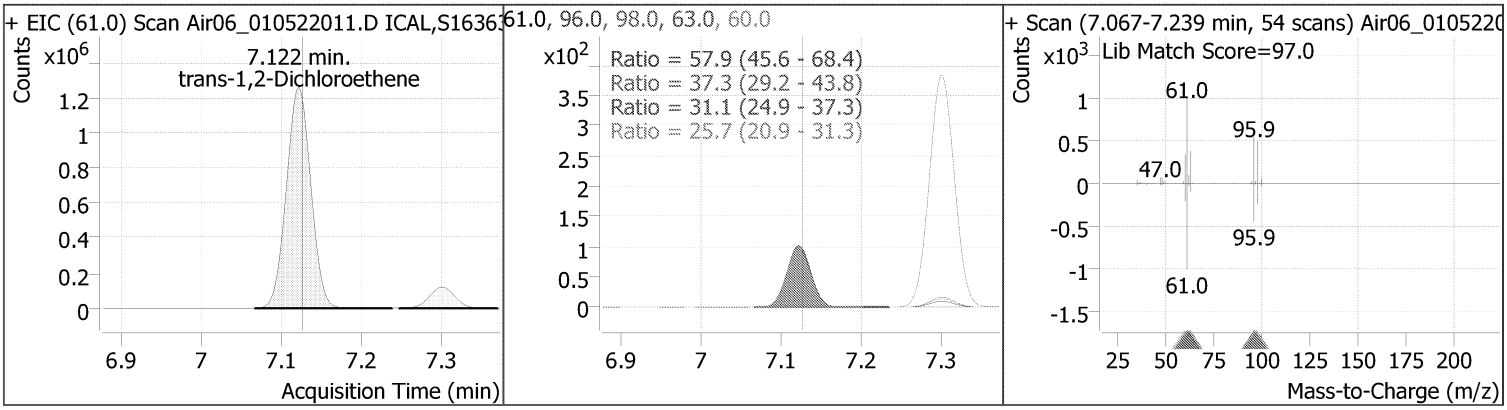

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 32.4373 | 6.54 | 0.00 | 3336781 | 151.0 | 85.8 | 68.0 | 102.0 |
| | | | | | 103.0 | 64.5 | 51.5 | 77.2 |
| | | | | | 153.0 | 55.5 | 43.9 | 65.9 |
| | | | | | 85.0 | 43.8 | 36.4 | 54.6 |



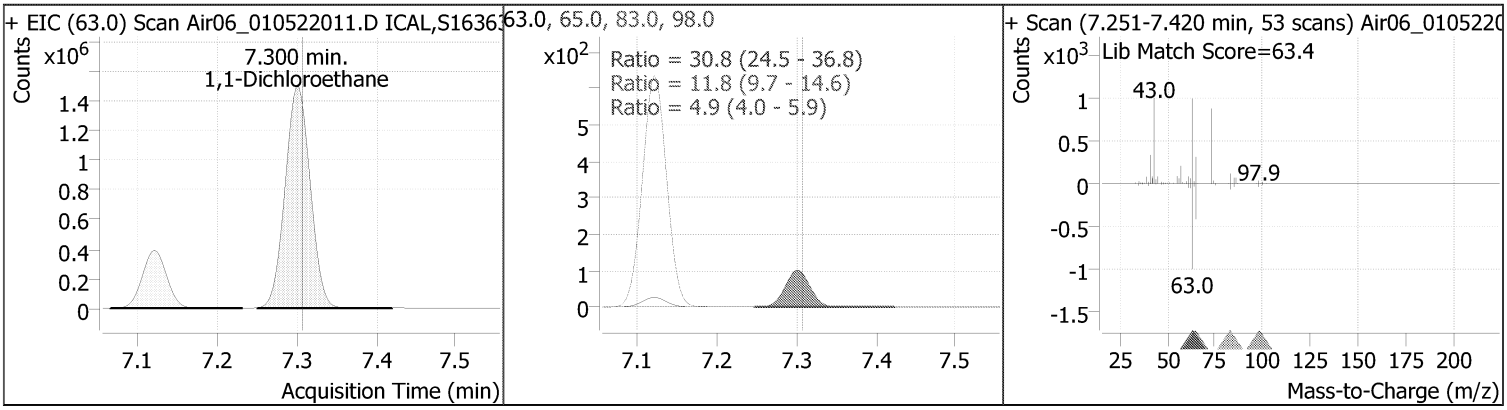
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 32.7406 | 6.57 | 0.00 | 4363062 | 44.0 | 16.4 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.2 | 9.0 | 13.5 |



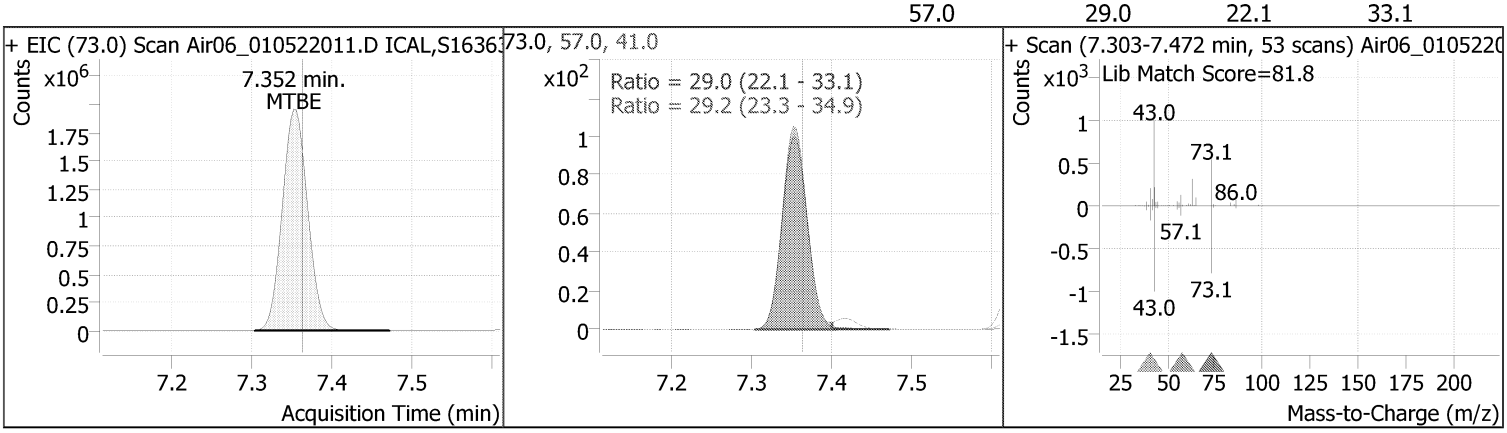

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 33.5726 | 7.12 | 0.00 | 2679384 | 96.0 | 57.9 | 45.6 | 68.4 |
| | | | | | 98.0 | 37.3 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.1 | 24.9 | 37.3 |
| | | | | | 60.0 | 25.7 | 20.9 | 31.3 |



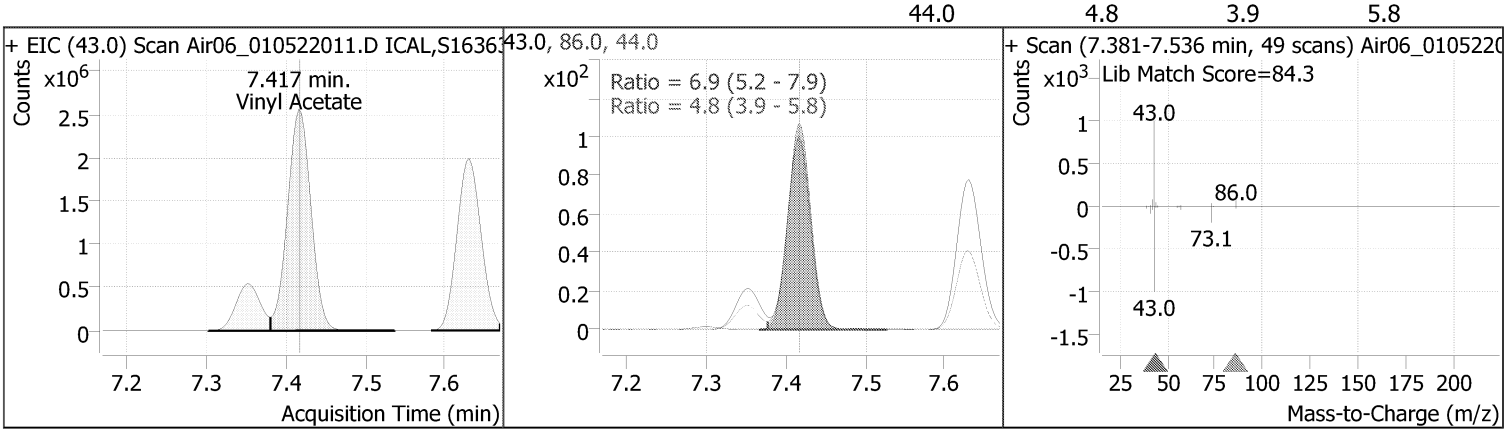

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 33.6153 | 7.30 | 0.00 | 3294091 | 65.0 | 30.8 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.8 | 9.7 | 14.6 |
| | | | | | 98.0 | 4.9 | 4.0 | 5.9 |



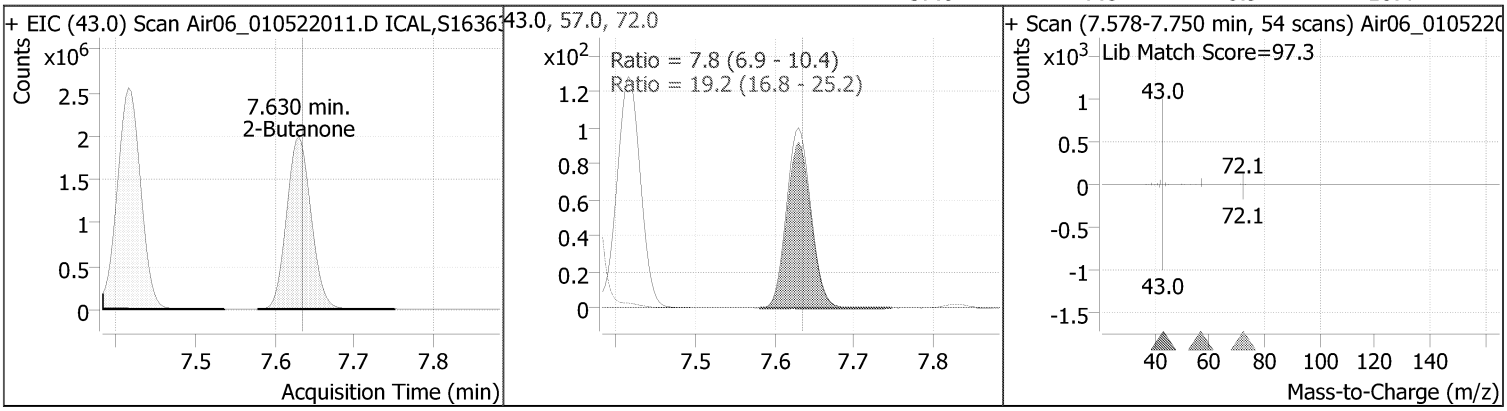
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 33.4812 | 7.35 | -0.01 | 4347690 | 41.0 | 29.2 | 23.3 | 34.9 |
| | | | | | 57.0 | 29.0 | 22.1 | 33.1 |



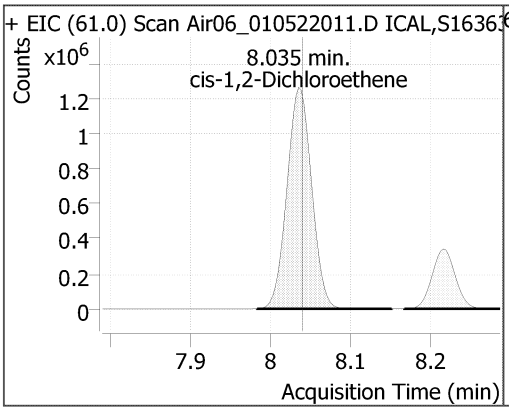

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 30.6754 | 7.42 | 0.00 | 5249807 | 86.0 | 6.9 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.8 | 3.9 | 5.8 |

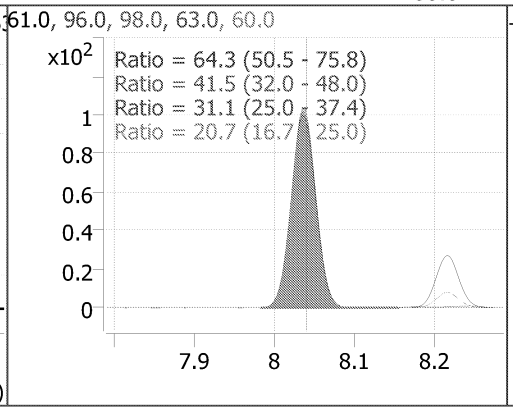


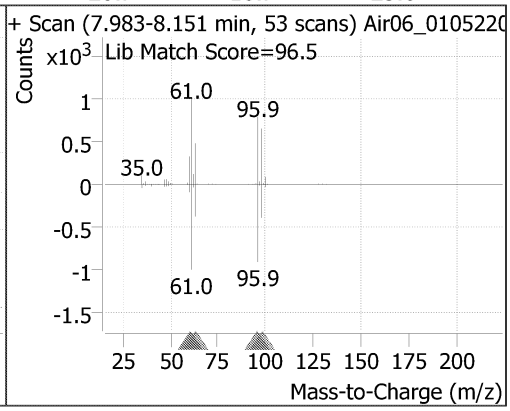

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 33.5035 | 7.63 | 0.00 | 4244120 | 72.0 | 19.2 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.8 | 6.9 | 10.4 |



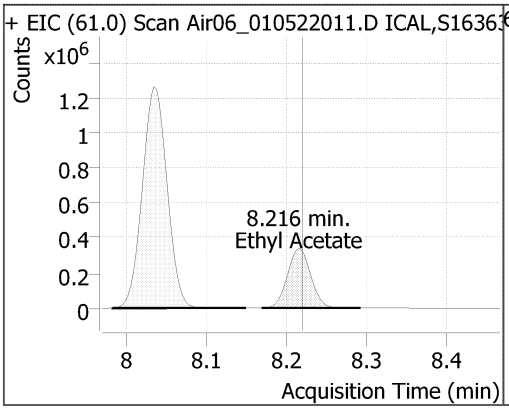
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 33.6982 | 8.03 | 0.00 | 2720175 | 96.0 | 64.3 | 50.5 | 75.8 |
| | | | | | 98.0 | 41.5 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.1 | 25.0 | 37.4 |
| | | | | | 60.0 | 20.7 | 16.7 | 25.0 |

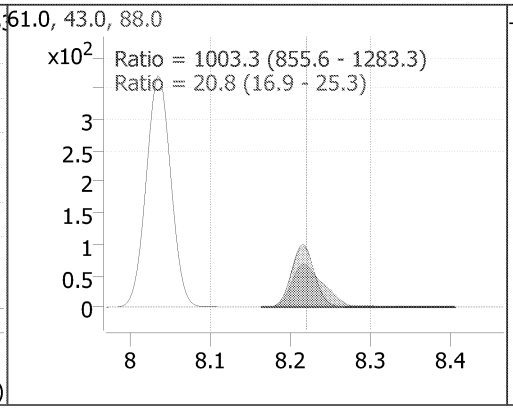


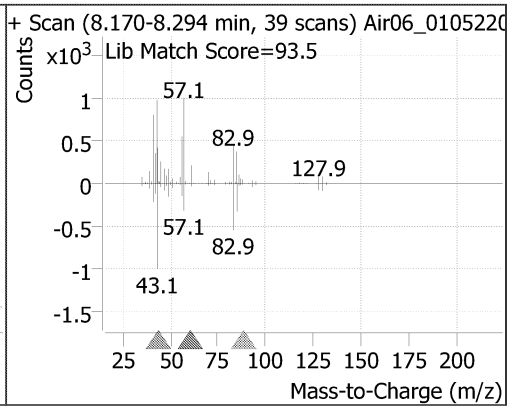



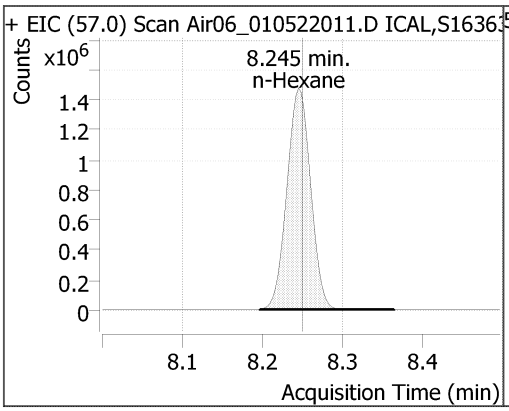

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 34.5021 | 8.22 | 0.00 | 686186 | 43.0 | 1003.3 | 855.6 | 1283.3 |
| | | | | | 88.0 | 20.8 | 16.9 | 25.3 |

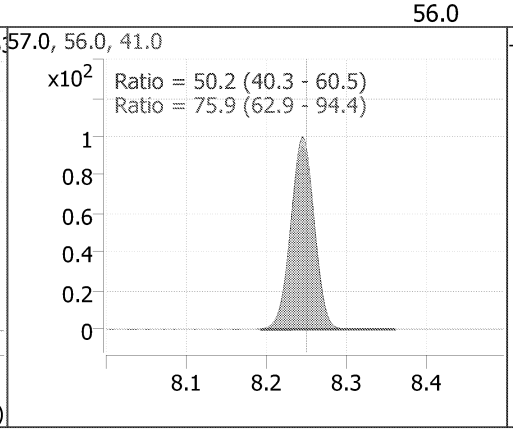


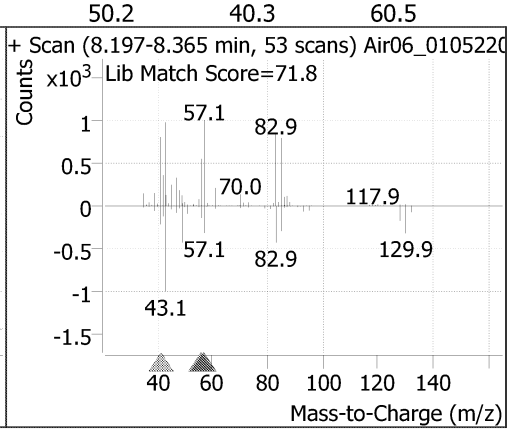



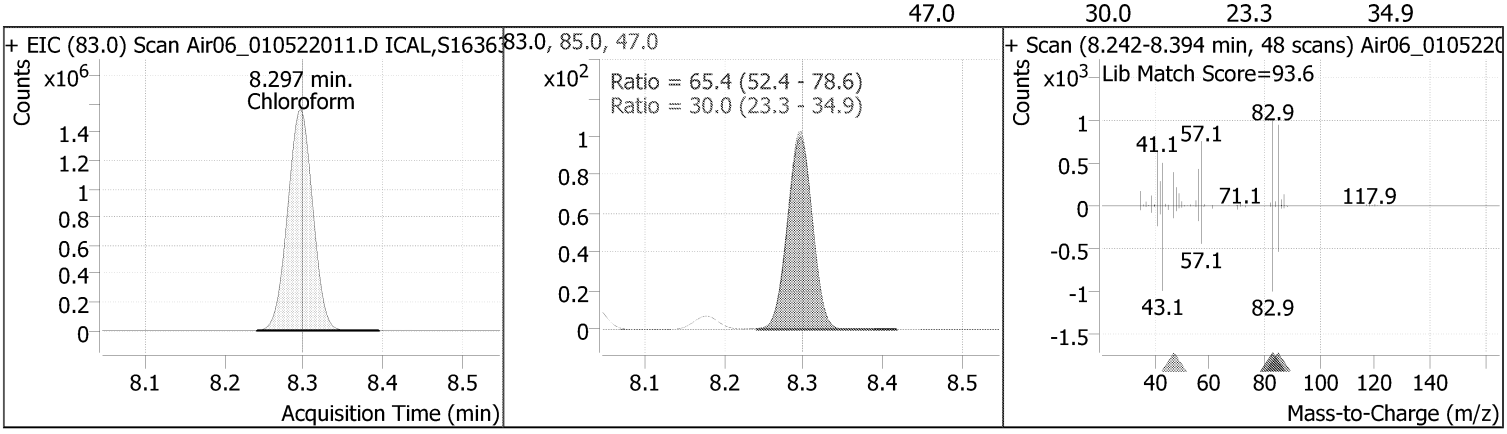

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 33.5160 | 8.25 | 0.00 | 3061293 | 41.0 | 75.9 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.2 | 40.3 | 60.5 |



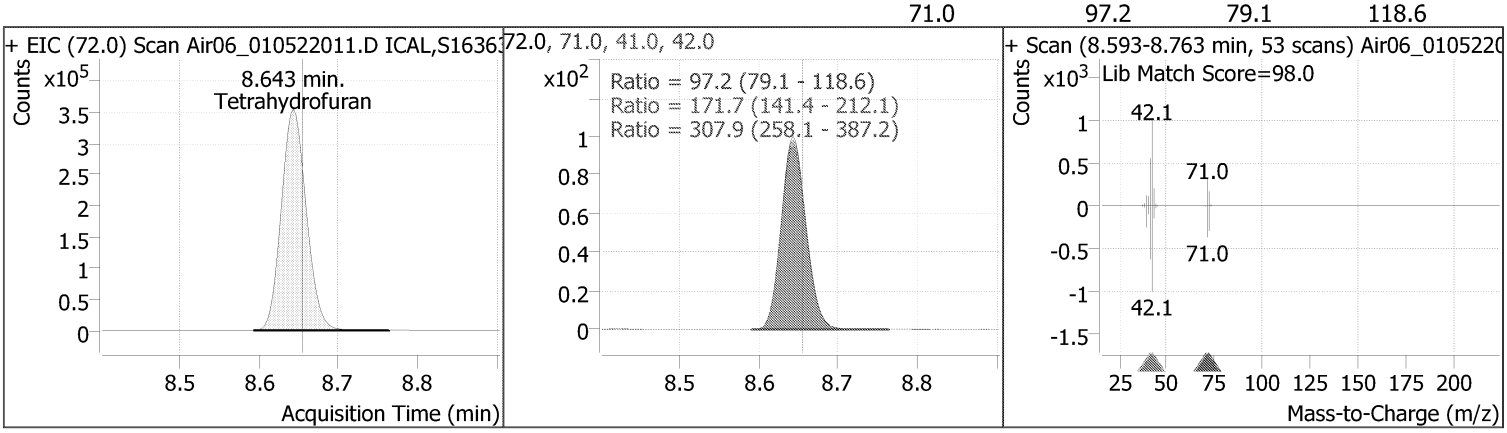



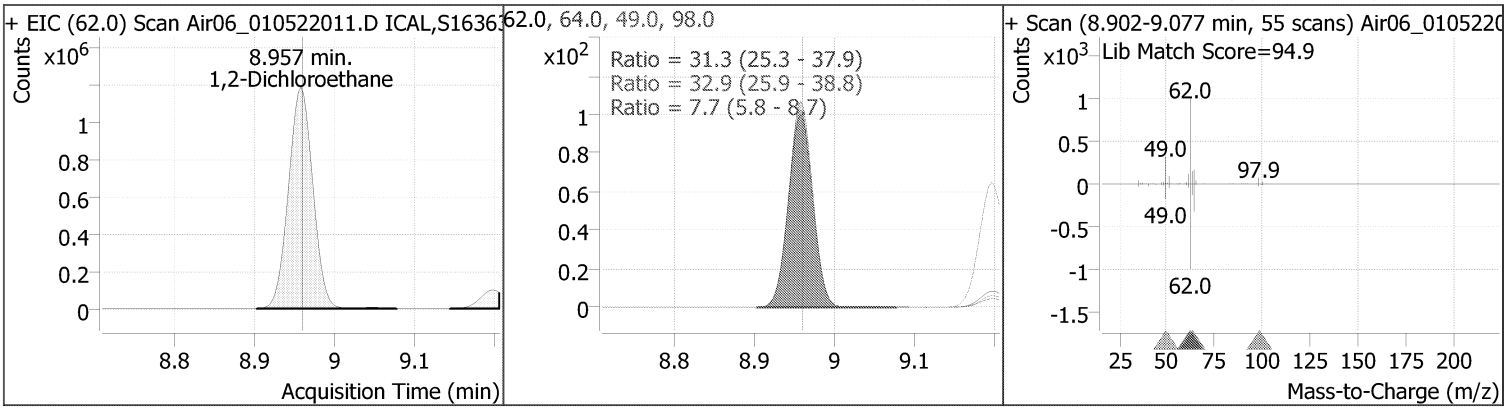
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 33.1417 | 8.30 | 0.00 | 3413449 | 85.0 | 65.4 | 52.4 | 78.6 |
| | | | | | 47.0 | 30.0 | 23.3 | 34.9 |



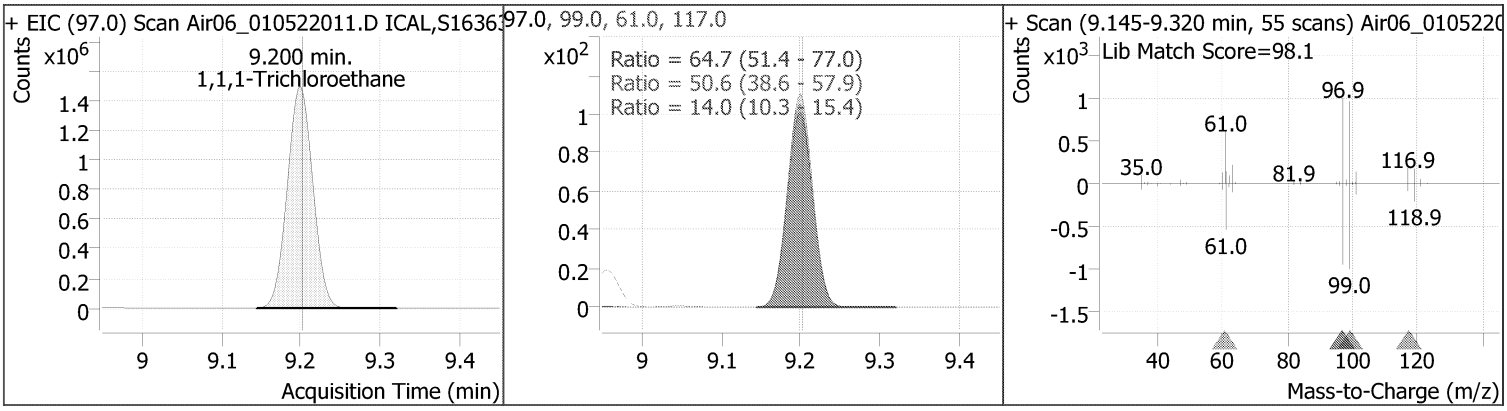

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 34.1196 | 8.64 | -0.01 | 775153 | 42.0 | 307.9 | 258.1 | 387.2 |
| | | | | | 41.0 | 171.7 | 141.4 | 212.1 |
| | | | | | 71.0 | 97.2 | 79.1 | 118.6 |



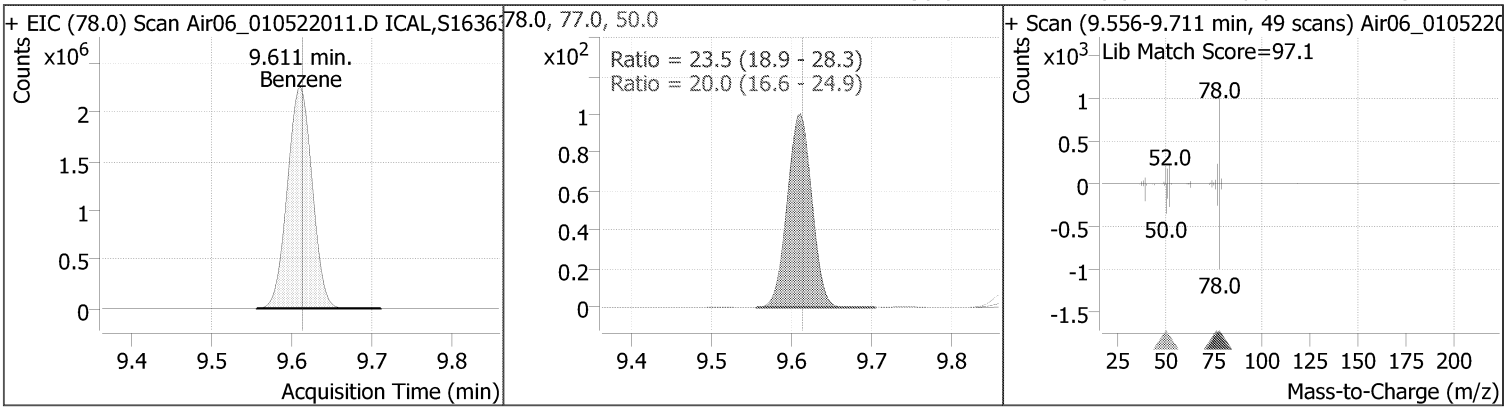

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 33.6774 | 8.96 | 0.00 | 2539845 | 49.0 | 32.9 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.3 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.7 | 5.8 | 8.7 |



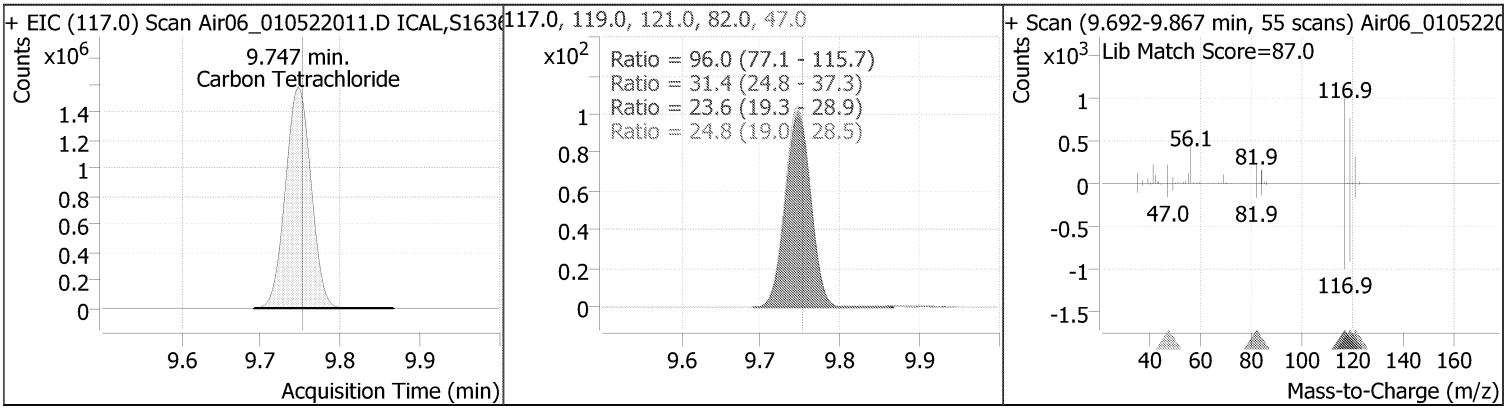
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 33.4815 | 9.20 | 0.00 | 3335619 | 99.0 | 64.7 | 51.4 | 77.0 |
| | | | | | 61.0 | 50.6 | 38.6 | 57.9 |
| | | | | | 117.0 | 14.0 | 10.3 | 15.4 |



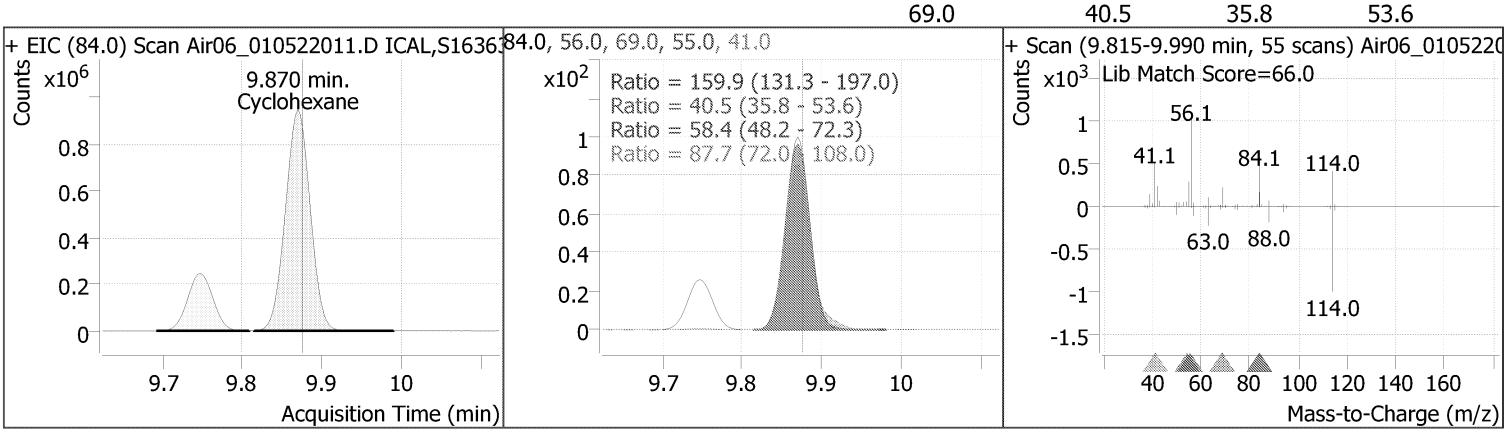

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 33.2213 | 9.61 | 0.00 | 4932571 | 77.0 | 23.5 | 18.9 | 28.3 |
| | | | | | 50.0 | 20.0 | 16.6 | 24.9 |



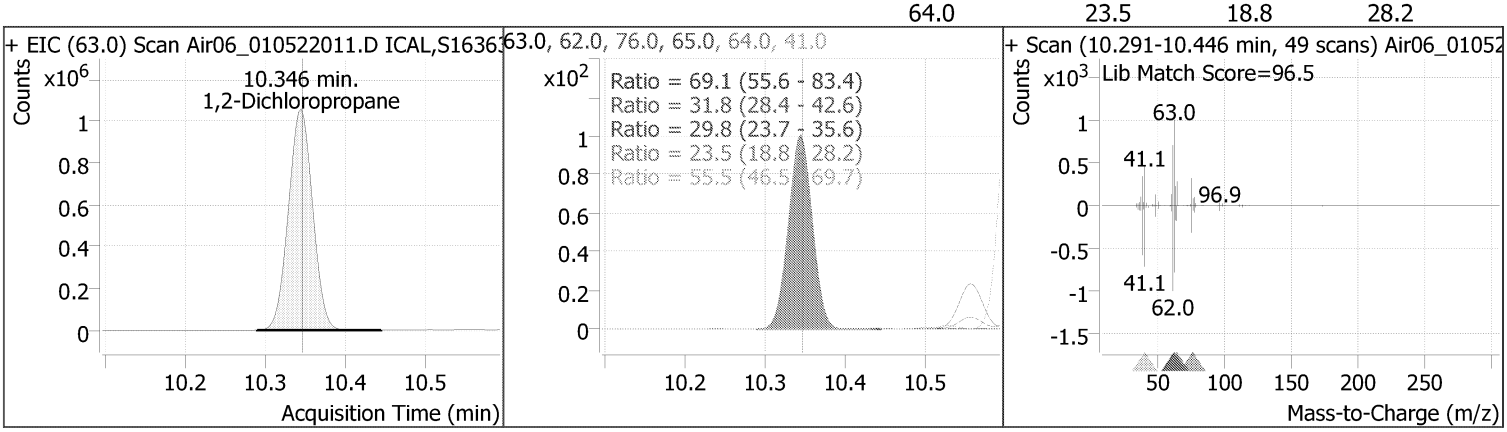

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 33.3842 | 9.75 | 0.00 | 3548262 | 119.0 | 96.0 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.4 | 24.8 | 37.3 |
| | | | | | 82.0 | 23.6 | 19.3 | 28.9 |
| | | | | | 47.0 | 24.8 | 19.0 | 28.5 |



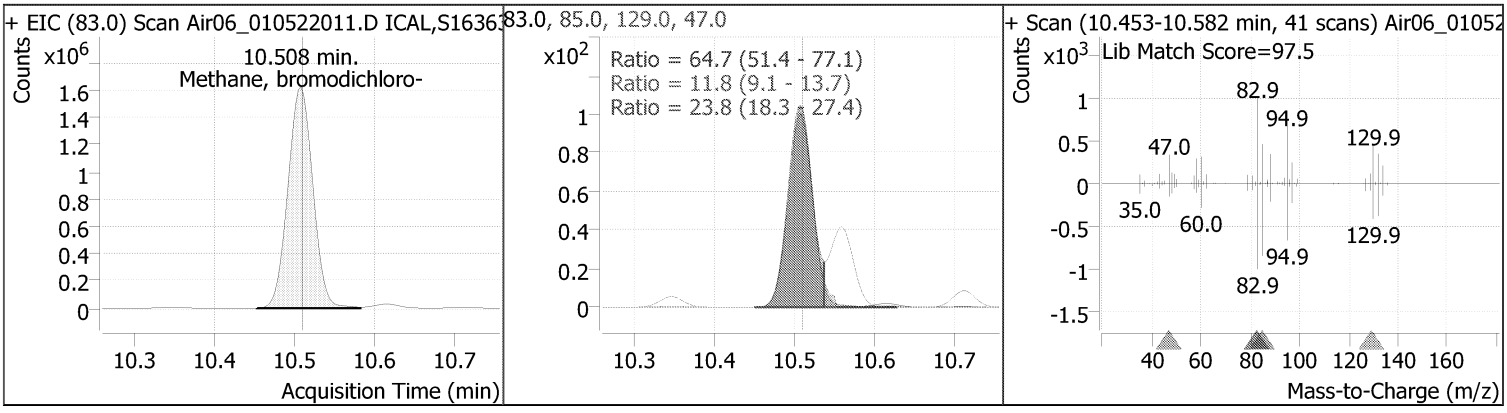
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 33.0529 | 9.87 | 0.00 | 2050358 | 56.0 | 159.9 | 131.3 | 197.0 |
| | | | | | 41.0 | 87.7 | 72.0 | 108.0 |
| | | | | | 55.0 | 58.4 | 48.2 | 72.3 |
| | | | | | 69.0 | 40.5 | 35.8 | 53.6 |



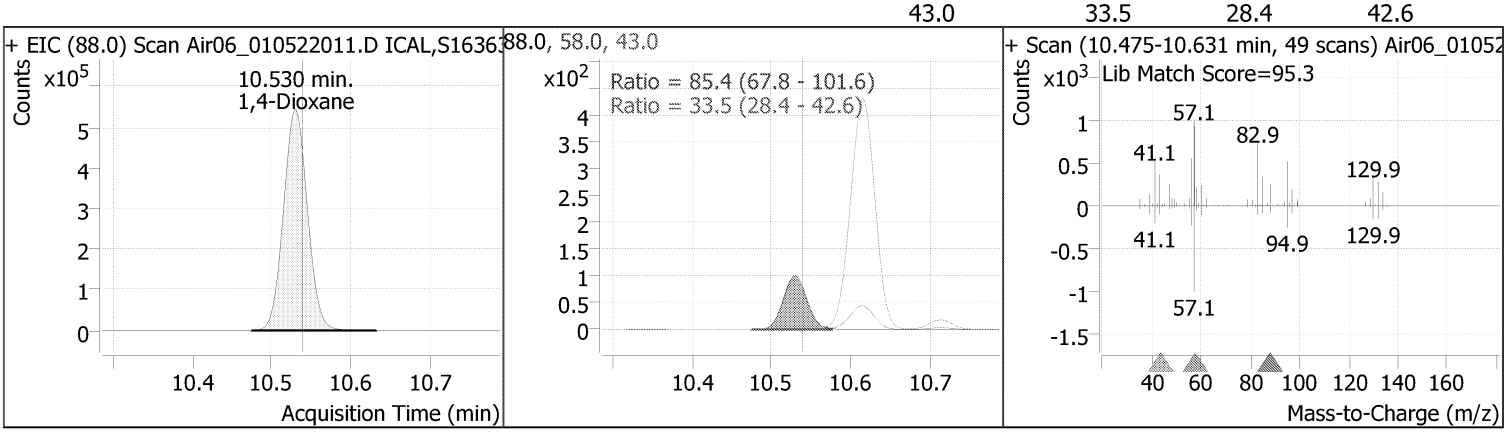

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 34.7775 | 10.35 | 0.00 | 2235105 | 62.0 | 69.1 | 55.6 | 83.4 |
| | | | | | 41.0 | 55.5 | 46.5 | 69.7 |
| | | | | | 76.0 | 31.8 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.8 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.5 | 18.8 | 28.2 |



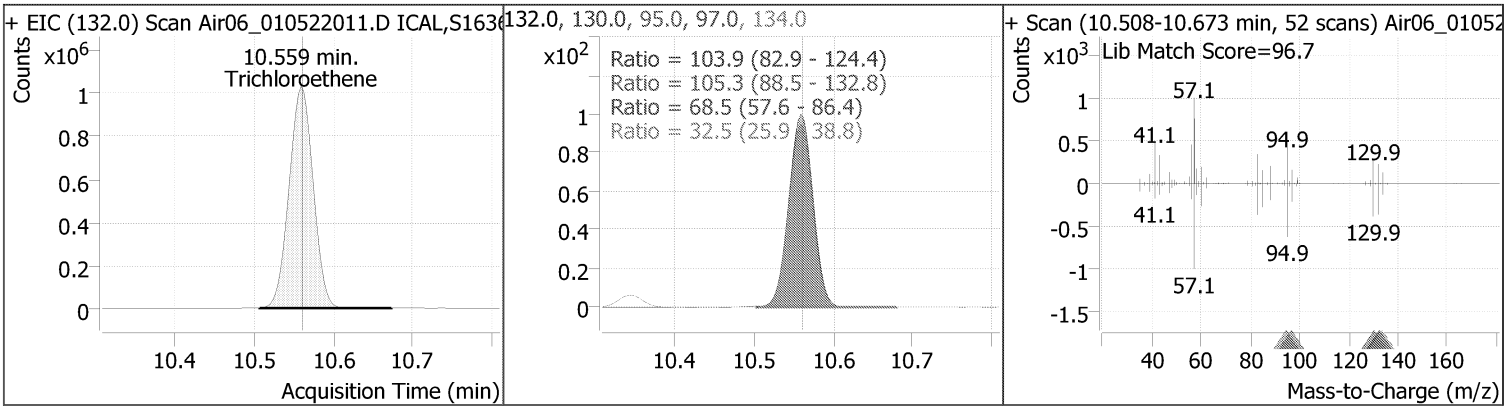

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 33.7090 | 10.51 | 0.00 | 3535024 | 85.0 | 64.7 | 51.4 | 77.1 |
| | | | | | 47.0 | 23.8 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.8 | 9.1 | 13.7 |



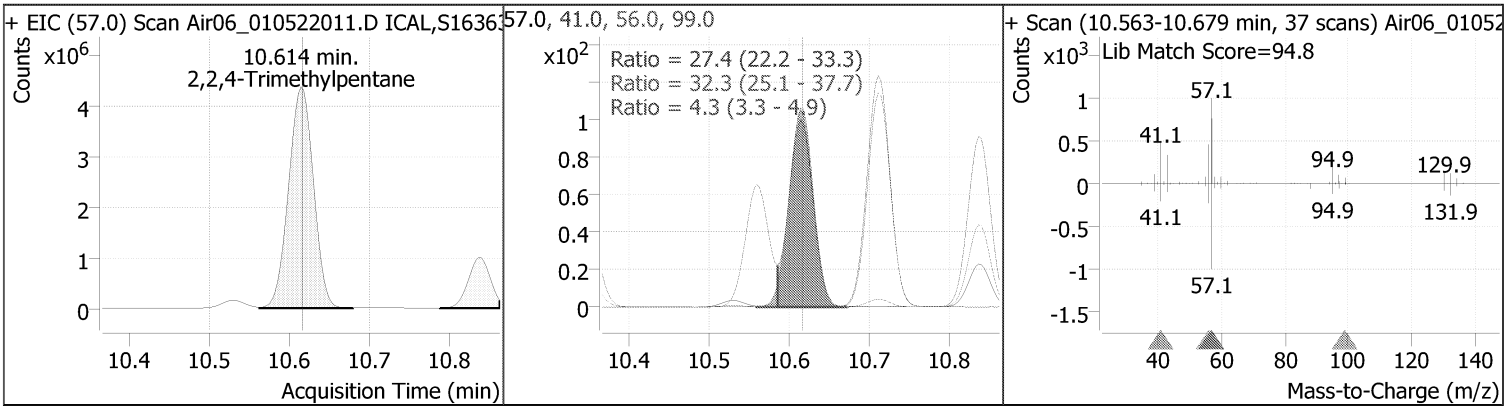
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 33.8723 | 10.53 | 0.00 | 1136016 | 58.0 | 85.4 | 67.8 | 101.6 |
| | | | | | 43.0 | 33.5 | 28.4 | 42.6 |



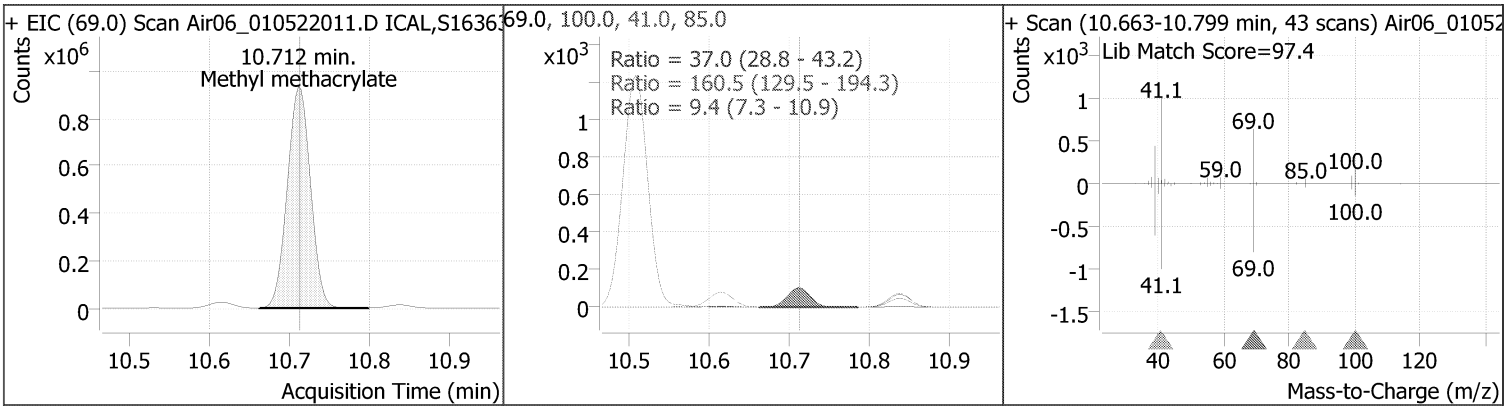

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 33.2732 | 10.56 | 0.00 | 2175379 | 95.0 | 105.3 | 88.5 | 132.8 |
| | | | | | 130.0 | 103.9 | 82.9 | 124.4 |
| | | | | | 97.0 | 68.5 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.5 | 25.9 | 38.8 |



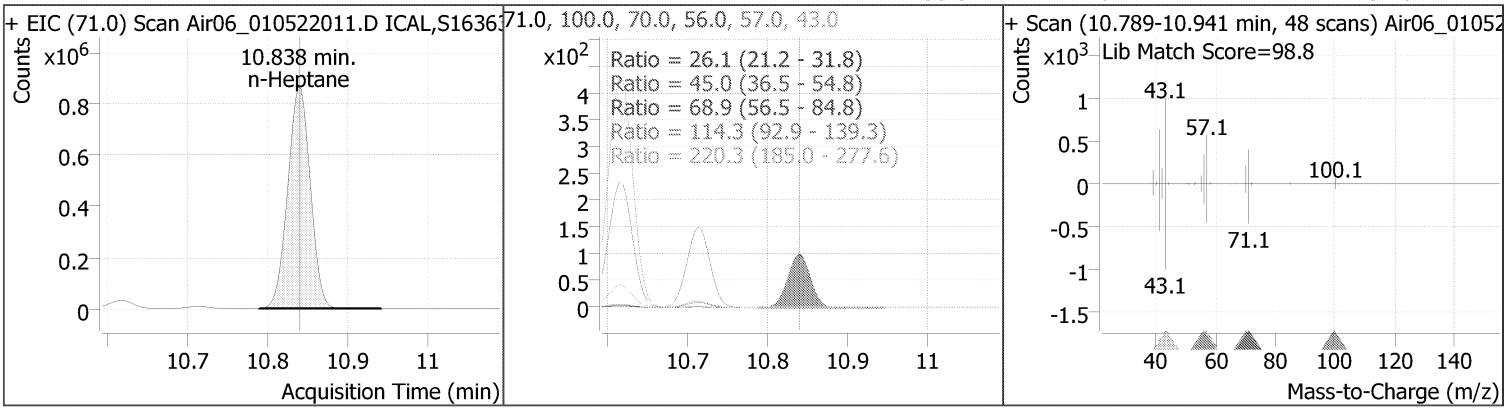

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 32.3356 | 10.61 | 0.00 | 9457885 | 56.0 | 32.3 | 25.1 | 37.7 |
| | | | | | 41.0 | 27.4 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.3 | 3.3 | 4.9 |



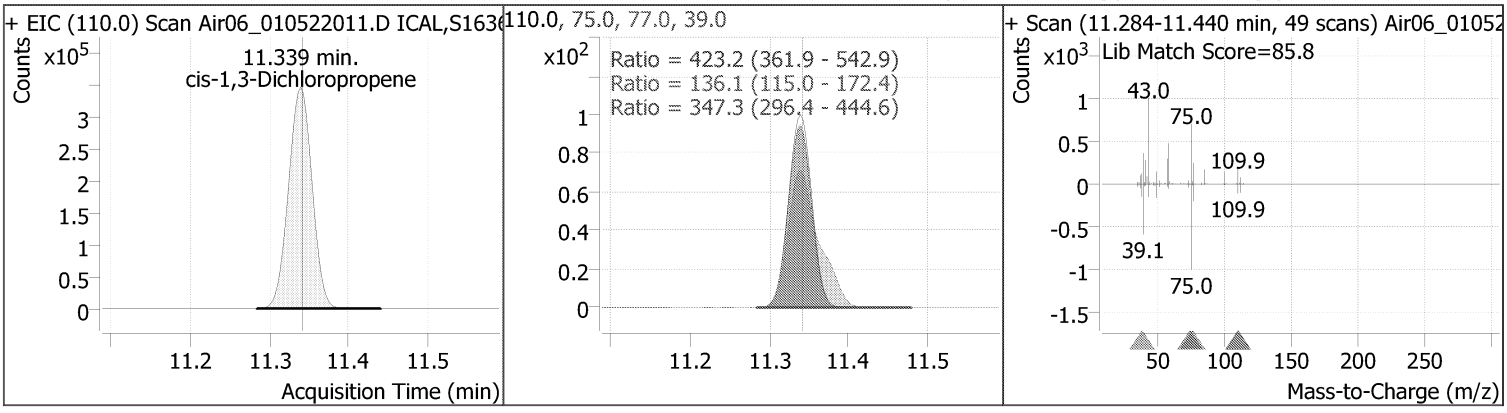
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 34.6849 | 10.71 | 0.00 | 1892289 | 41.0 | 160.5 | 129.5 | 194.3 |
| | | | | | 100.0 | 37.0 | 28.8 | 43.2 |
| | | | | | 85.0 | 9.4 | 7.3 | 10.9 |



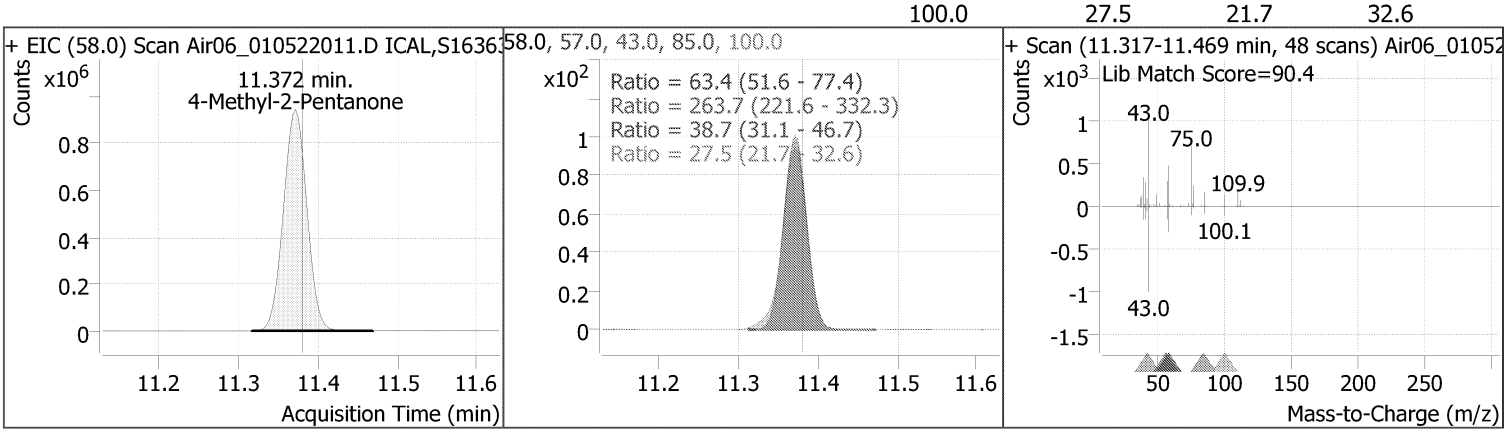

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 33.7866 | 10.84 | 0.00 | 1707121 | 43.0 | 220.3 | 185.0 | 277.6 |
| | | | | | 57.0 | 114.3 | 92.9 | 139.3 |
| | | | | | 56.0 | 68.9 | 56.5 | 84.8 |
| | | | | | 70.0 | 45.0 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.1 | 21.2 | 31.8 |



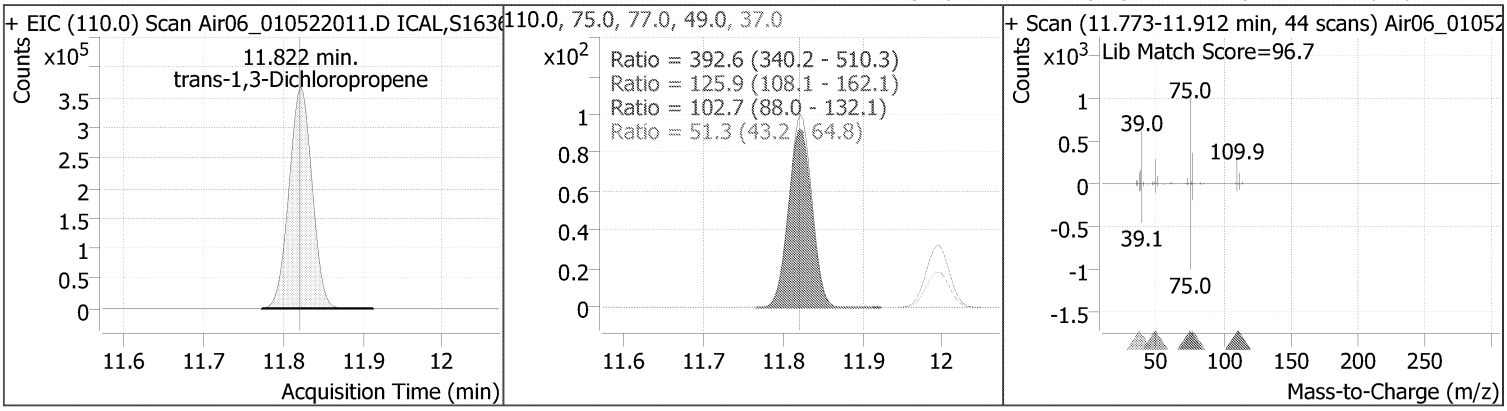

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 34.9581 | 11.34 | 0.00 | 713221 | 75.0 | 423.2 | 361.9 | 542.9 |
| | | | | | 39.0 | 347.3 | 296.4 | 444.6 |
| | | | | | 77.0 | 136.1 | 115.0 | 172.4 |



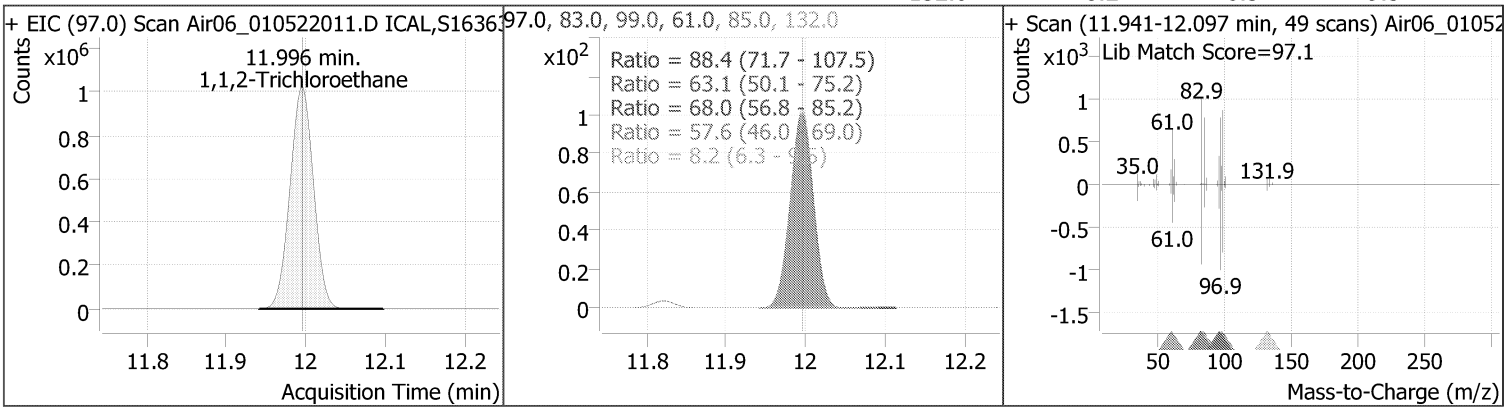
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 34.3181 | 11.37 | 0.00 | 1934475 | 43.0 | 263.7 | 221.6 | 332.3 |
| | | | | | 57.0 | 63.4 | 51.6 | 77.4 |
| | | | | | 85.0 | 38.7 | 31.1 | 46.7 |
| | | | | | 100.0 | 27.5 | 21.7 | 32.6 |



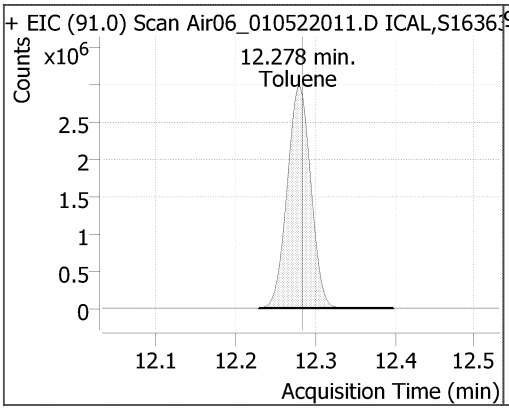

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 35.3542 | 11.82 | 0.00 | 739538 | 75.0 | 392.6 | 340.2 | 510.3 |
| | | | | | 77.0 | 125.9 | 108.1 | 162.1 |
| | | | | | 49.0 | 102.7 | 88.0 | 132.1 |
| | | | | | 37.0 | 51.3 | 43.2 | 64.8 |

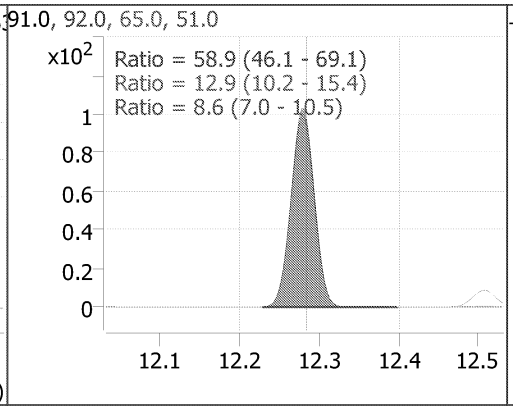


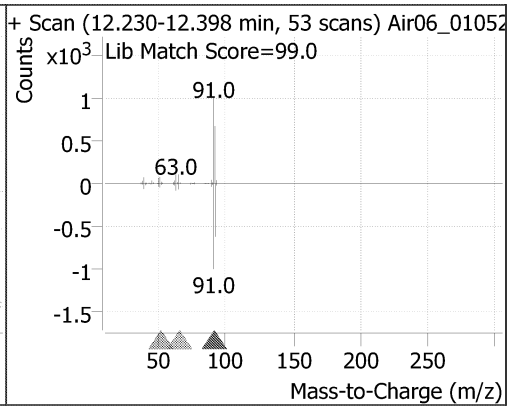

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 34.5014 | 12.00 | 0.01 | 2111655 | 83.0 | 88.4 | 71.7 | 107.5 |
| | | | | | 61.0 | 68.0 | 56.8 | 85.2 |
| | | | | | 99.0 | 63.1 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.6 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.2 | 6.3 | 9.5 |



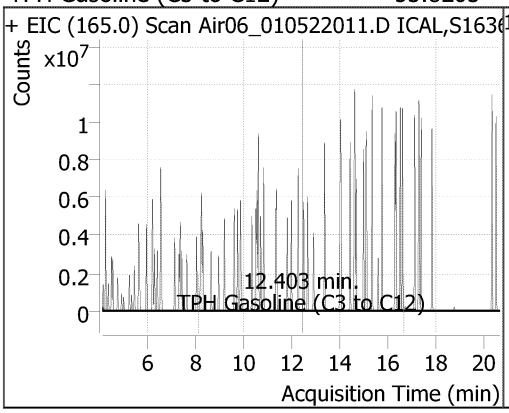
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 33.2485 | 12.28 | 0.00 | 6183431 | 92.0 | 58.9 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.9 | 10.2 | 15.4 |
| | | | | | 51.0 | 8.6 | 7.0 | 10.5 |

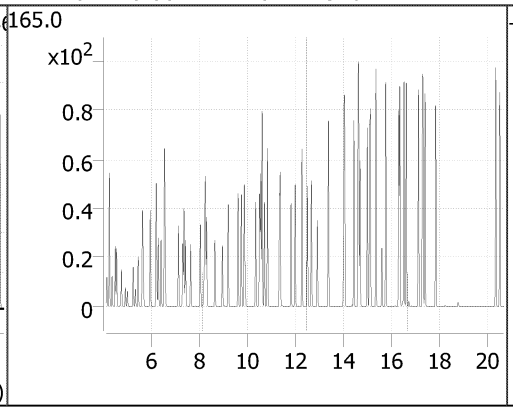


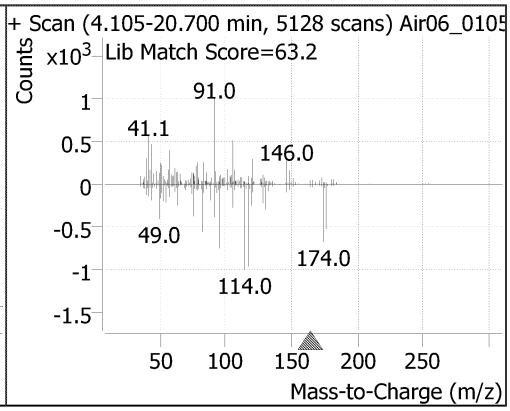



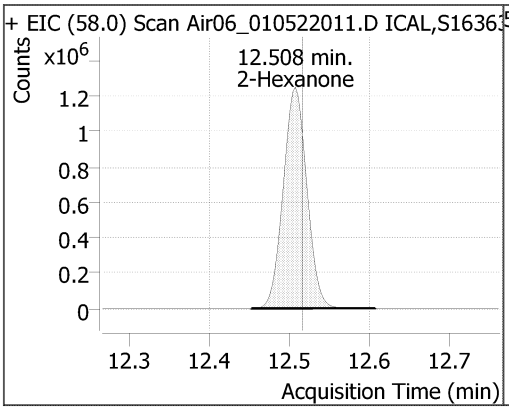

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 53.8203 | 12.40 | 0.00 | 824725162 | | | | |

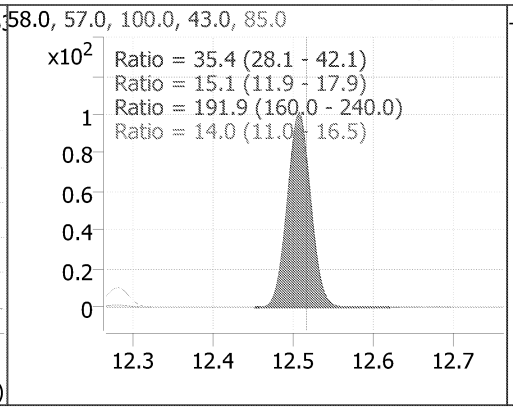


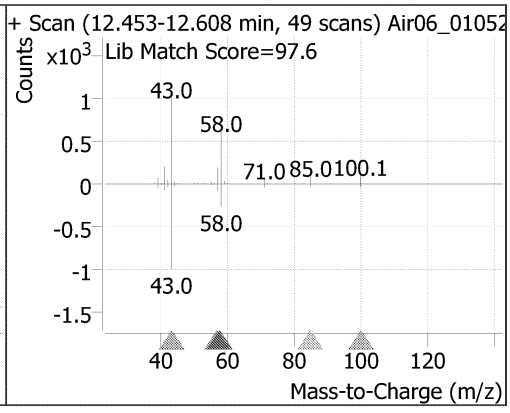



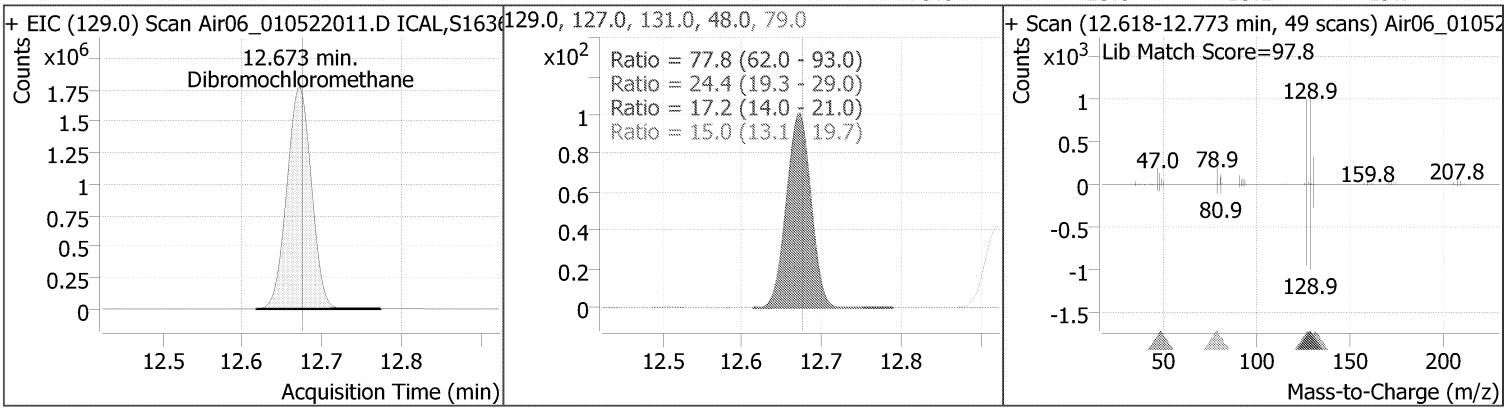

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 35.7068 | 12.51 | 0.00 | 2585158 | 43.0 | 191.9 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.4 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.1 | 11.9 | 17.9 |
| | | | | | 85.0 | 14.0 | 11.0 | 16.5 |



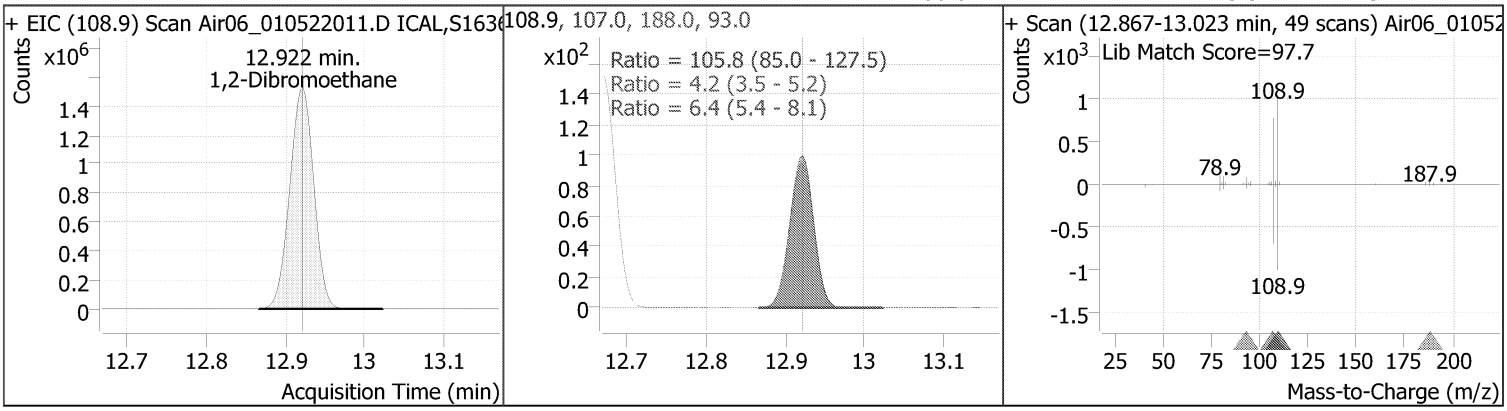



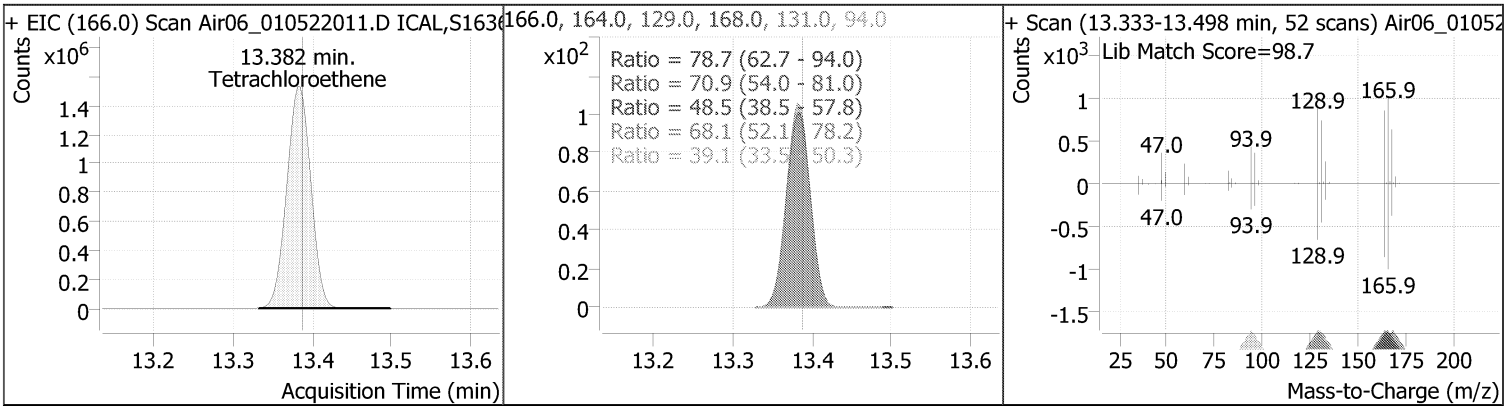
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 34.2802 | 12.67 | 0.00 | 3808907 | 127.0 | 77.8 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.4 | 19.3 | 29.0 |
| | | | | | 48.0 | 17.2 | 14.0 | 21.0 |
| | | | | | 79.0 | 15.0 | 13.1 | 19.7 |



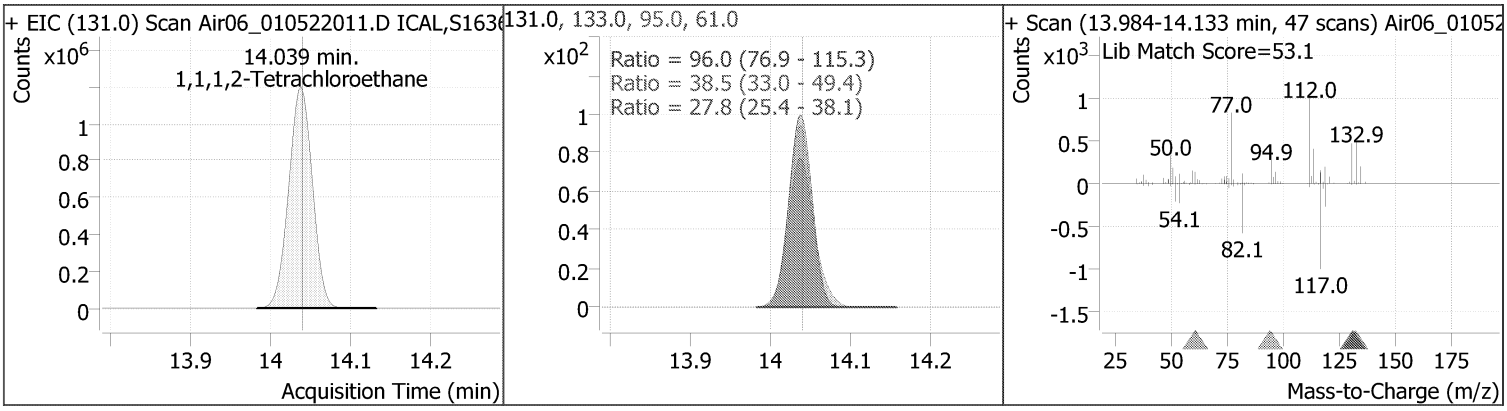

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 34.2035 | 12.92 | 0.01 | 3220617 | 107.0 | 105.8 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.4 | 5.4 | 8.1 |
| | | | | | 188.0 | 4.2 | 3.5 | 5.2 |



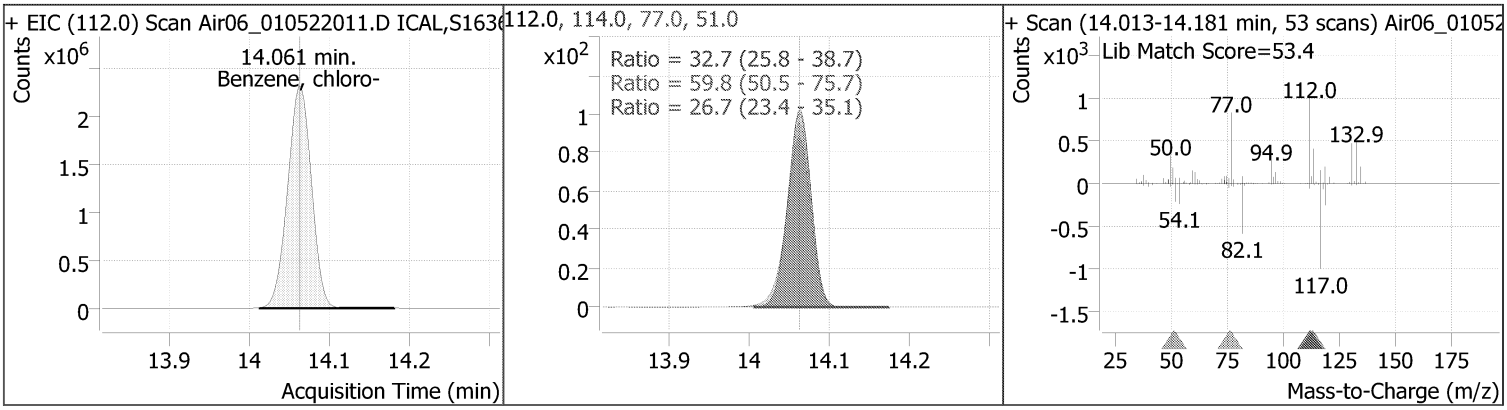

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 33.5803 | 13.38 | 0.00 | 3228763 | 164.0 | 78.7 | 62.7 | 94.0 |
| | | | | | 129.0 | 70.9 | 54.0 | 81.0 |
| | | | | | 131.0 | 68.1 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.5 | 38.5 | 57.8 |
| | | | | | 94.0 | 39.1 | 33.5 | 50.3 |



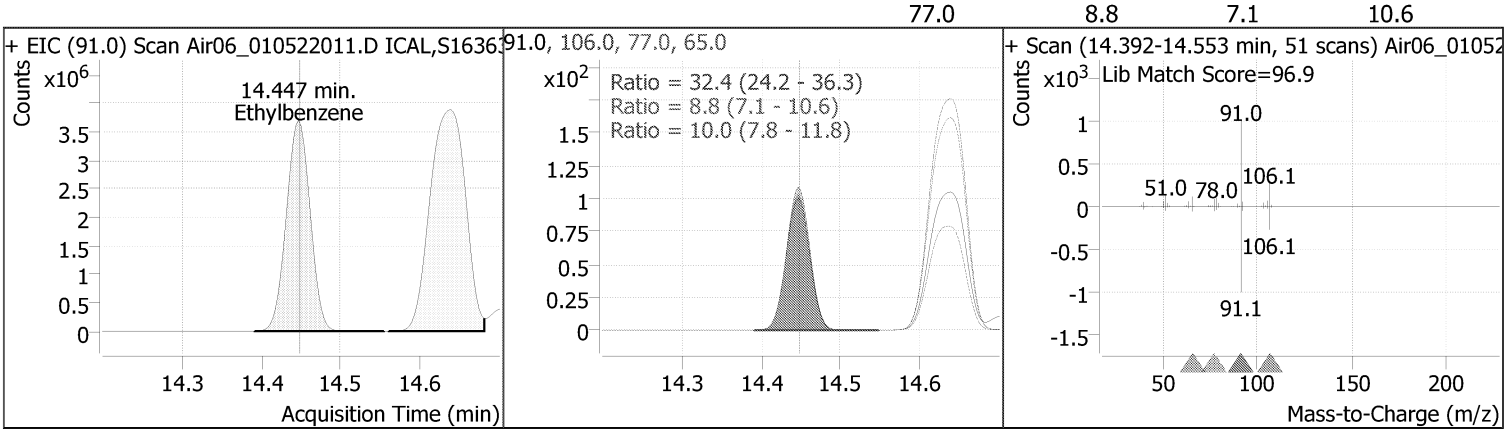
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 30.2685 | 14.04 | 0.00 | 2484806 | 133.0 | 96.0 | 76.9 | 115.3 |
| | | | | | 95.0 | 38.5 | 33.0 | 49.4 |
| | | | | | 61.0 | 27.8 | 25.4 | 38.1 |



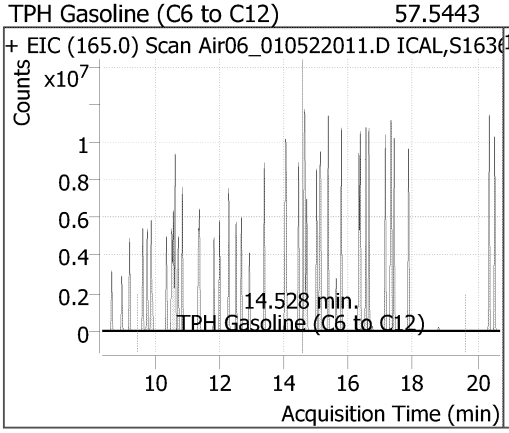

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 29.6489 | 14.06 | 0.00 | 4829980 | 77.0 | 59.8 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.7 | 25.8 | 38.7 |
| | | | | | 51.0 | 26.7 | 23.4 | 35.1 |

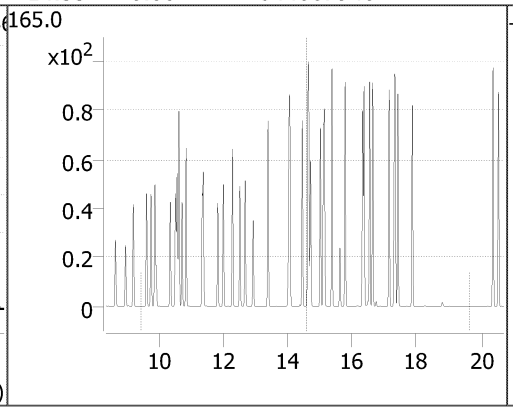


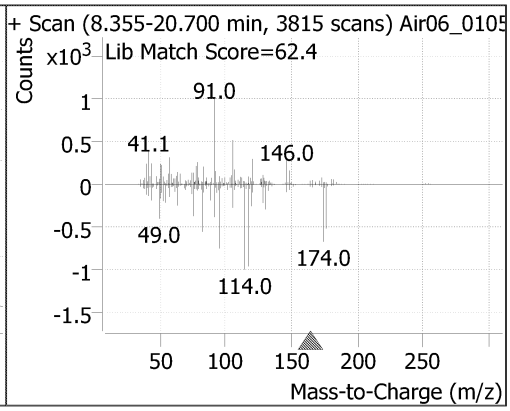

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 29.7099 | 14.45 | 0.00 | 7689202 | 106.0 | 32.4 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.0 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.8 | 7.1 | 10.6 |



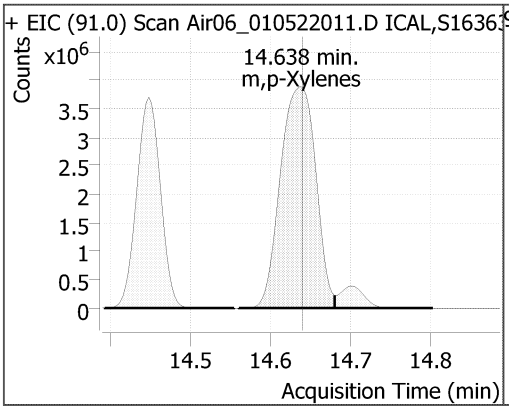
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 57.5443 | 14.53 | 0.00 | 644067940 | | | | |

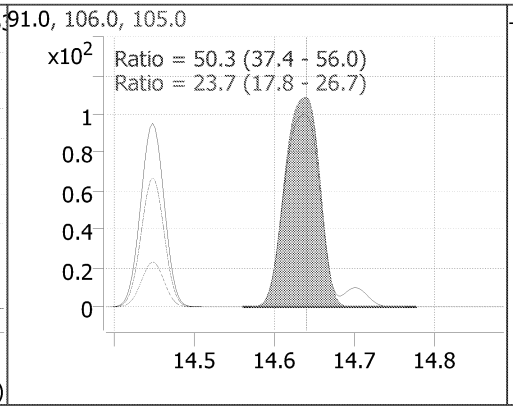


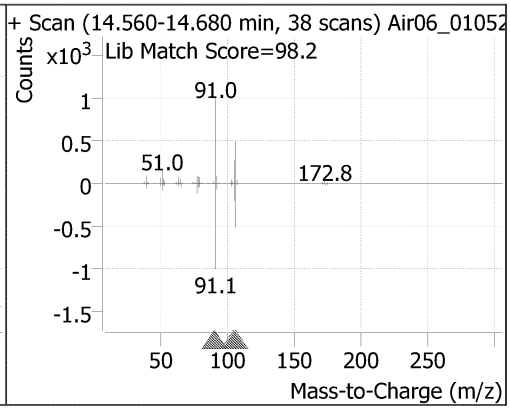



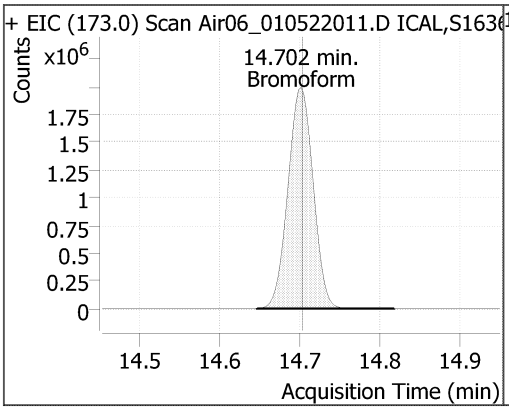

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 57.7335 | 14.64 | 0.00 | 12016984 | 106.0 | 50.3 | 37.4 | 56.0 |
| | | | | | 105.0 | 23.7 | 17.8 | 26.7 |

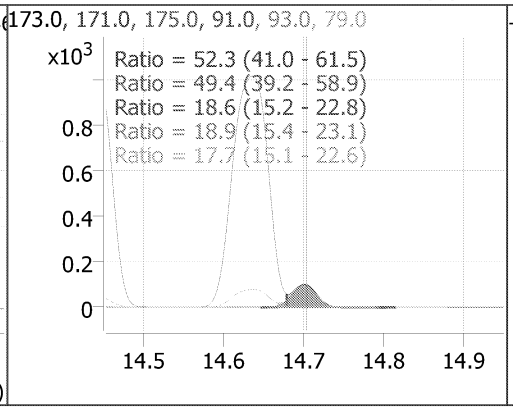


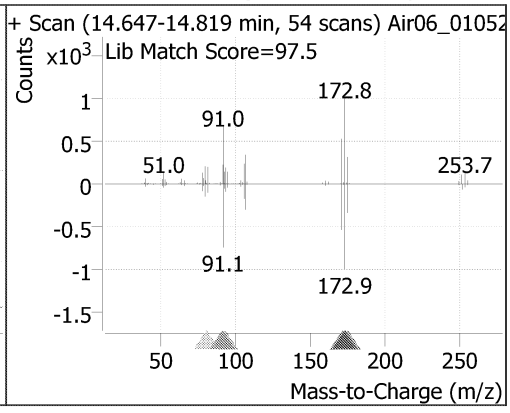



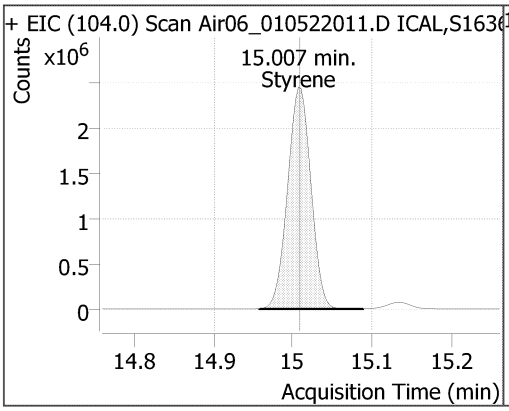

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 30.7552 | 14.70 | 0.00 | 4384577 | 171.0 | 52.3 | 41.0 | 61.5 |
| | | | | | 175.0 | 49.4 | 39.2 | 58.9 |
| | | | | | 93.0 | 18.9 | 15.4 | 23.1 |
| | | | | | 91.0 | 18.6 | 15.2 | 22.8 |
| | | | | | 79.0 | 17.7 | 15.1 | 22.6 |

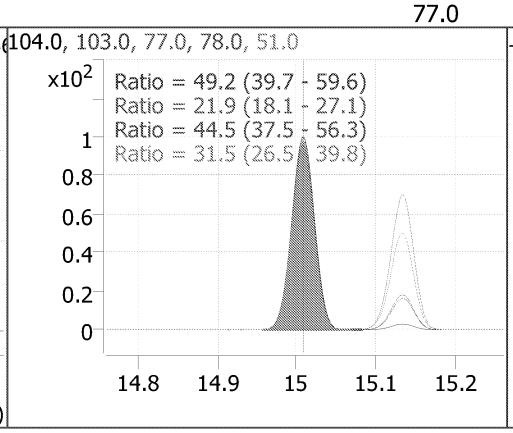


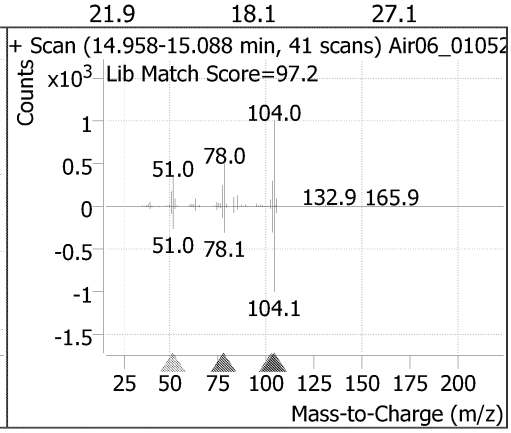



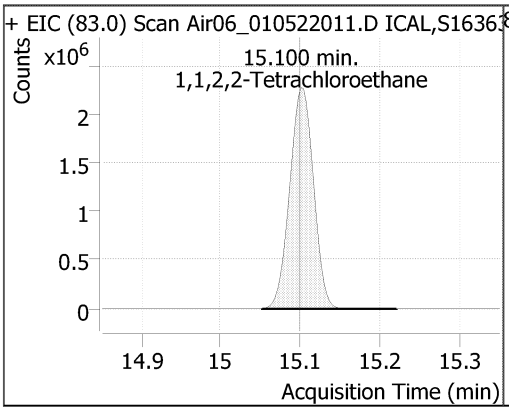
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 30.2468 | 15.01 | 0.00 | 4989155 | 103.0 | 49.2 | 39.7 | 59.6 |
| | | | | | 78.0 | 44.5 | 37.5 | 56.3 |
| | | | | | 51.0 | 31.5 | 26.5 | 39.8 |
| | | | | | 77.0 | 21.9 | 18.1 | 27.1 |

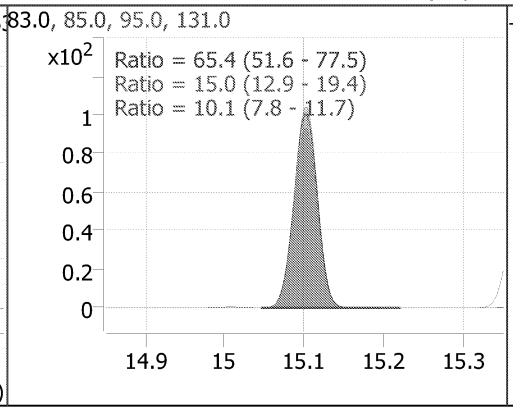


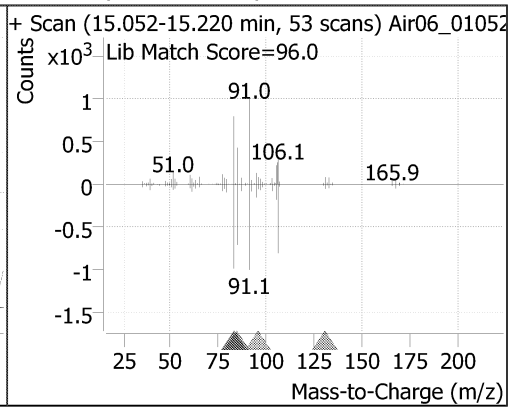



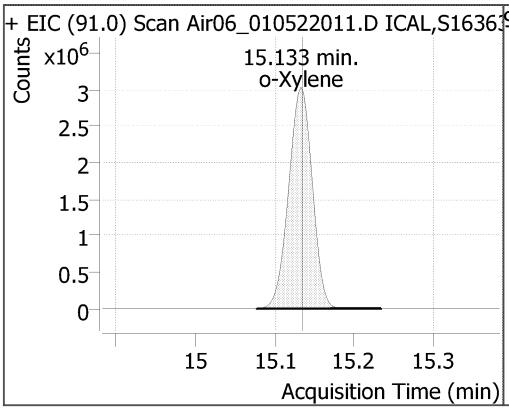

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 30.1360 | 15.10 | 0.00 | 4740047 | 85.0 | 65.4 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.0 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.1 | 7.8 | 11.7 |

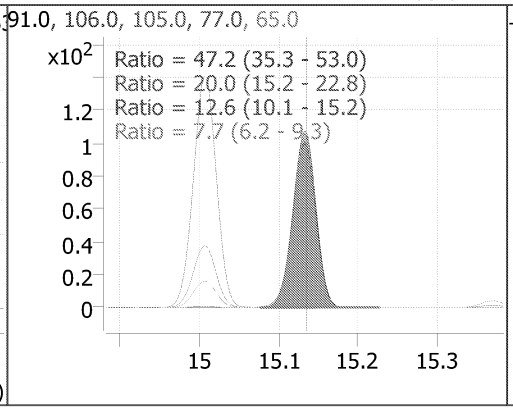


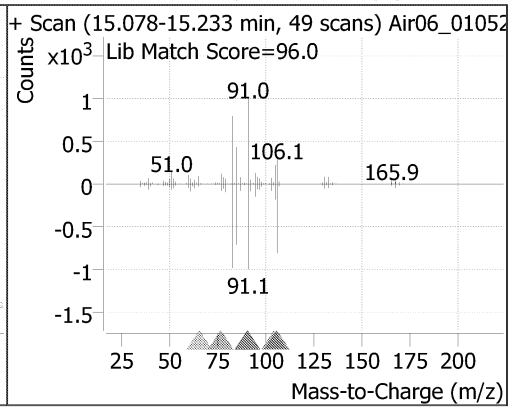



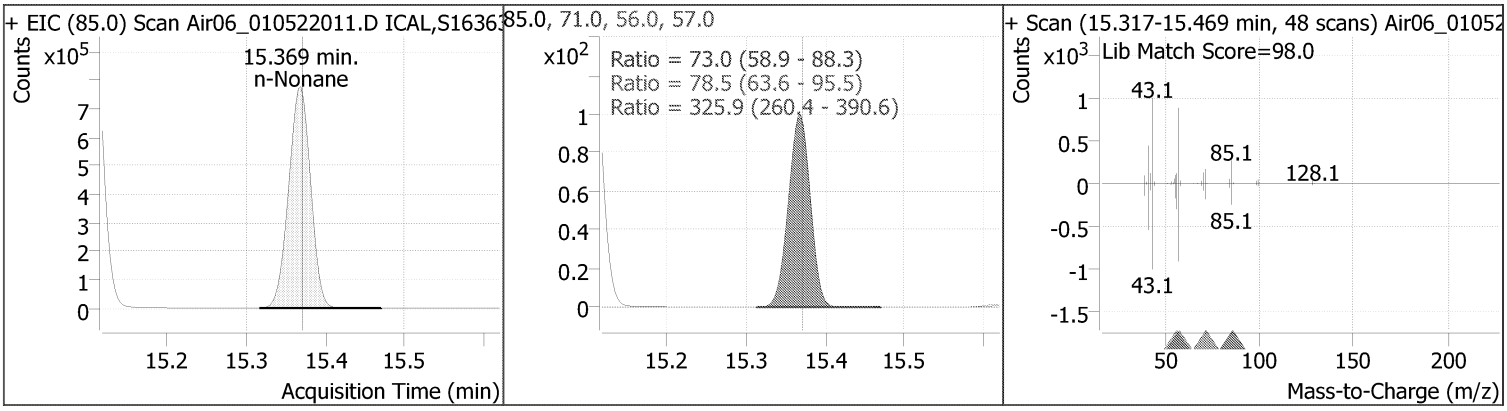

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 29.2557 | 15.13 | 0.00 | 6260662 | 106.0 | 47.2 | 35.3 | 53.0 |
| | | | | | 105.0 | 20.0 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.6 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.7 | 6.2 | 9.3 |



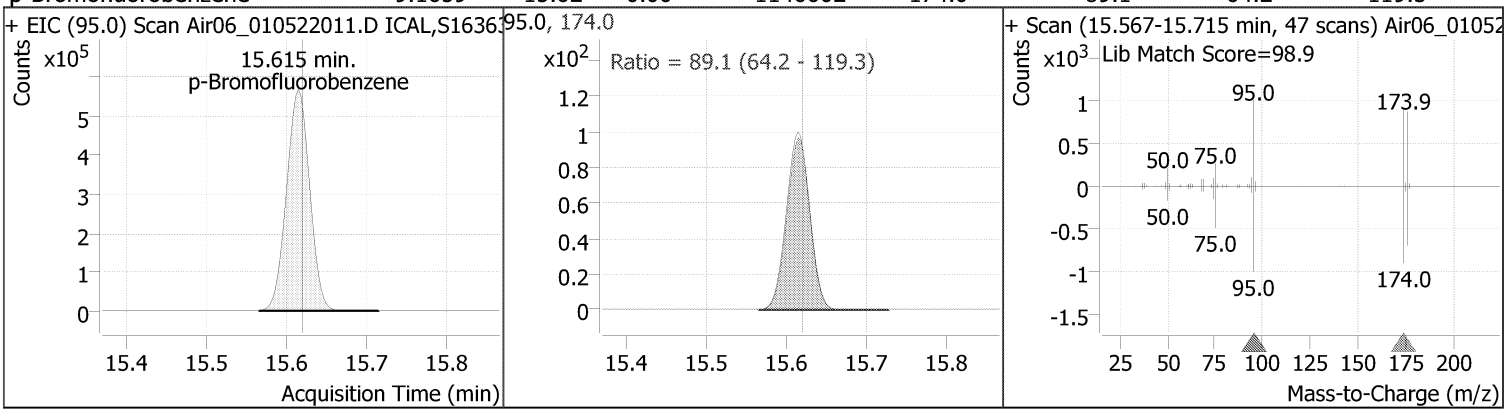



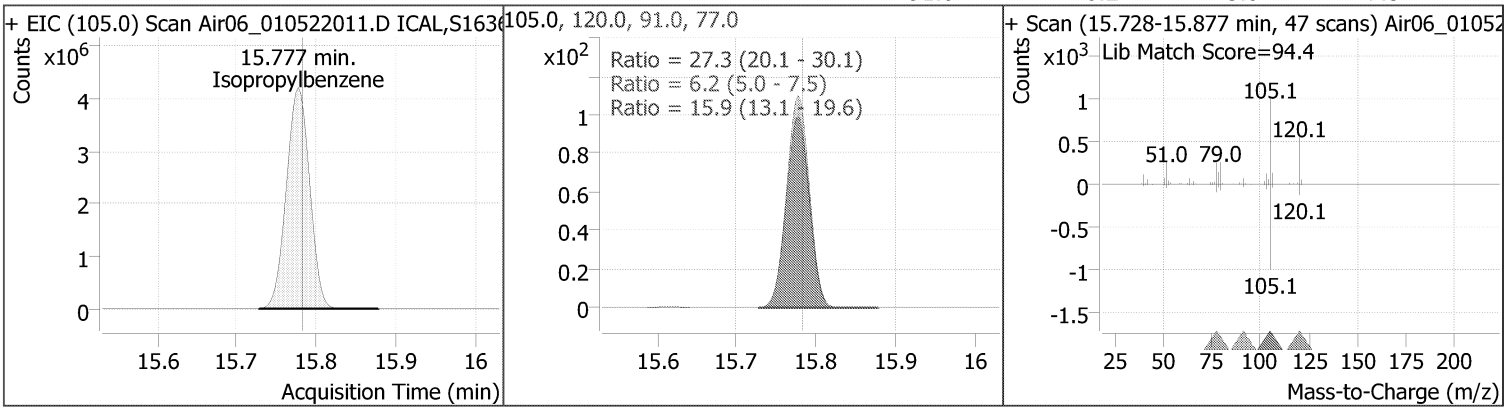
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 30.1026 | 15.37 | 0.00 | 1488248 | 57.0 | 325.9 | 260.4 | 390.6 |
| | | | | | 56.0 | 78.5 | 63.6 | 95.5 |
| | | | | | 71.0 | 73.0 | 58.9 | 88.3 |



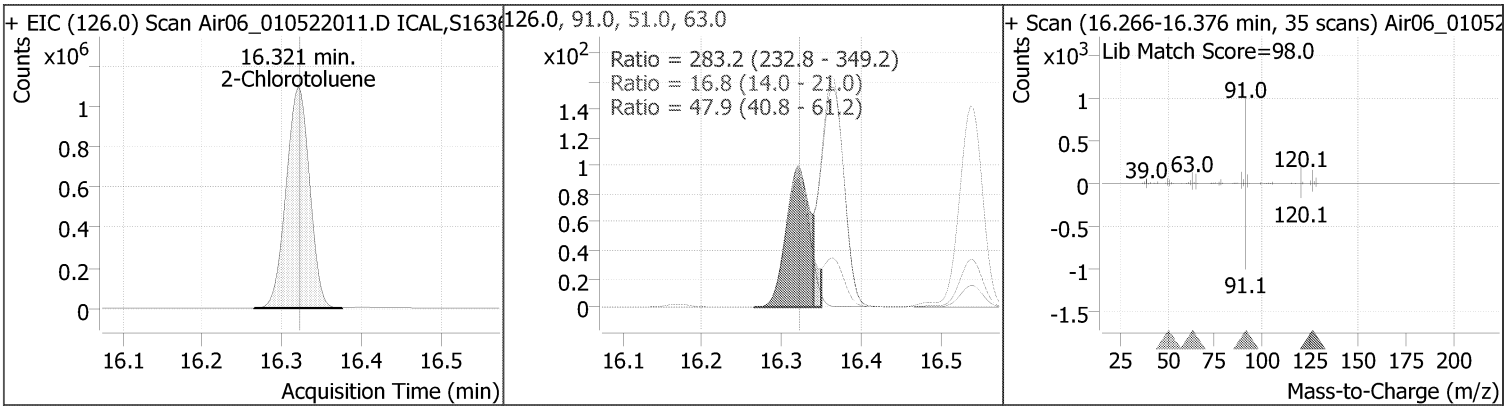

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 9.1659 | 15.62 | 0.00 | 1146602 | 174.0 | 89.1 | 64.2 | 119.3 |



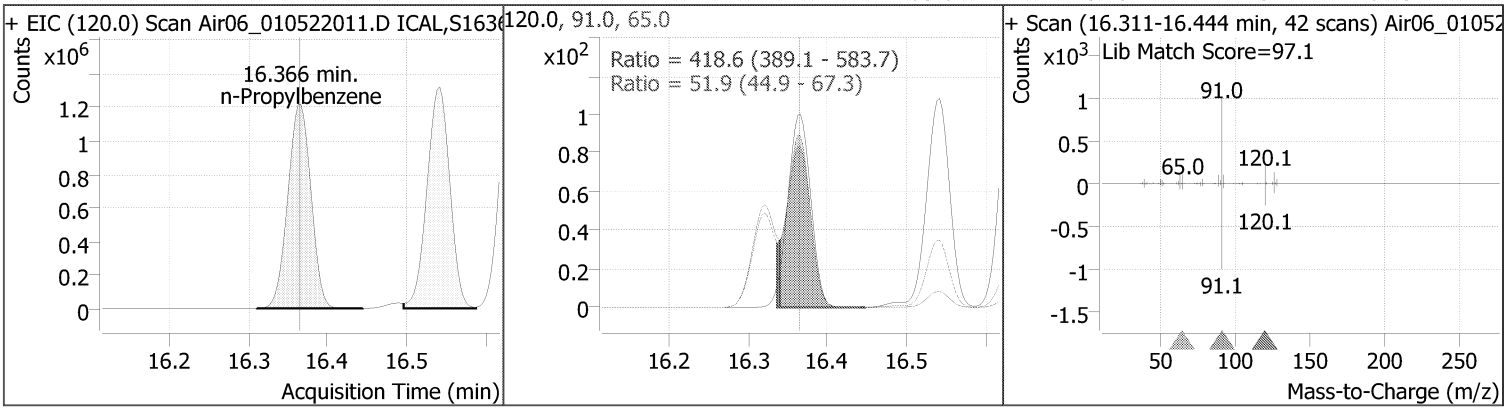

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 29.2097 | 15.78 | 0.00 | 8568680 | 120.0 | 27.3 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.9 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.2 | 5.0 | 7.5 |



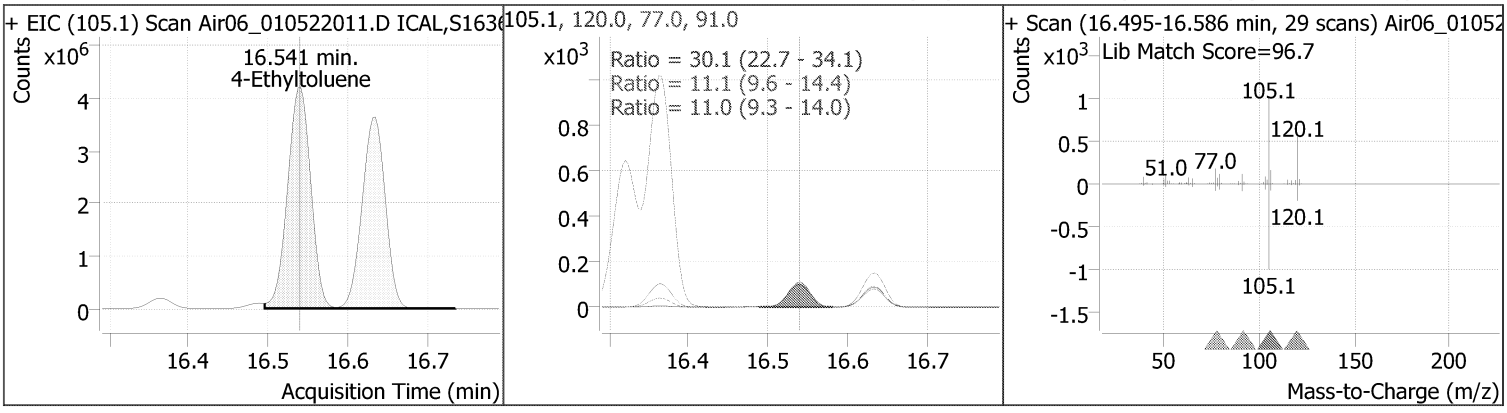
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 30.1556 | 16.32 | 0.00 | 2253100 | 91.0 | 283.2 | 232.8 | 349.2 |
| | | | | | 63.0 | 47.9 | 40.8 | 61.2 |
| | | | | | 51.0 | 16.8 | 14.0 | 21.0 |



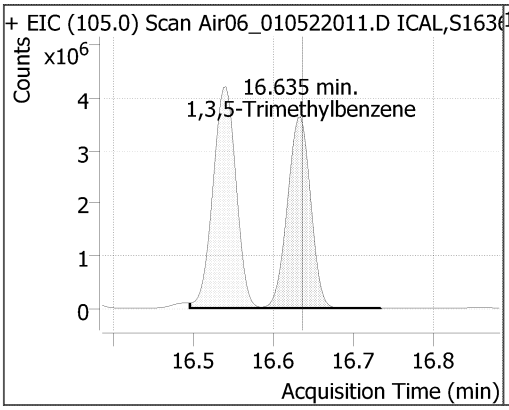

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 30.1243 | 16.37 | 0.00 | 2469065 | 91.0 | 418.6 | 389.1 | 583.7 |
| | | | | | 65.0 | 51.9 | 44.9 | 67.3 |

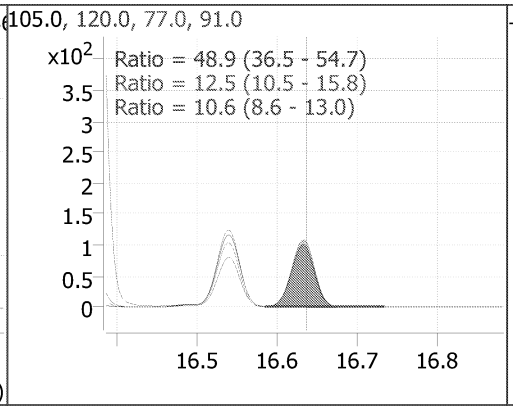


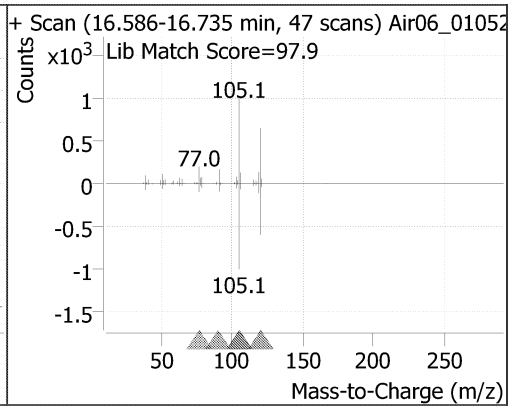

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 29.4717 | 16.54 | 0.00 | 8555537 | 120.0 | 30.1 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.1 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.0 | 9.3 | 14.0 |



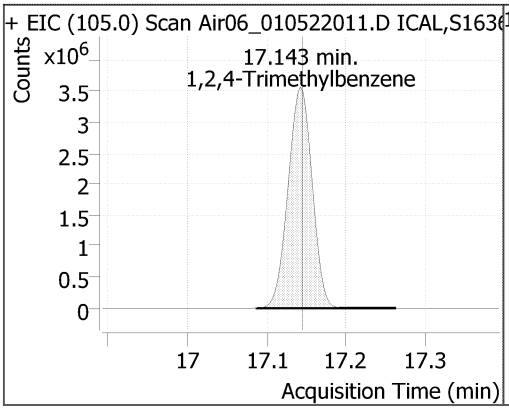
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 29.4958 | 16.63 | 0.00 | 7412362 | 120.0 | 48.9 | 36.5 | 54.7 |
| | | | | | 77.0 | 12.5 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.6 | 8.6 | 13.0 |

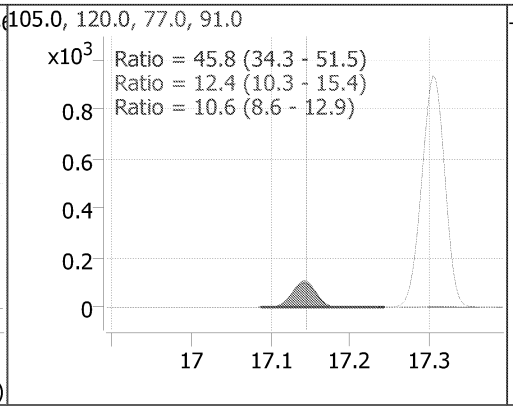


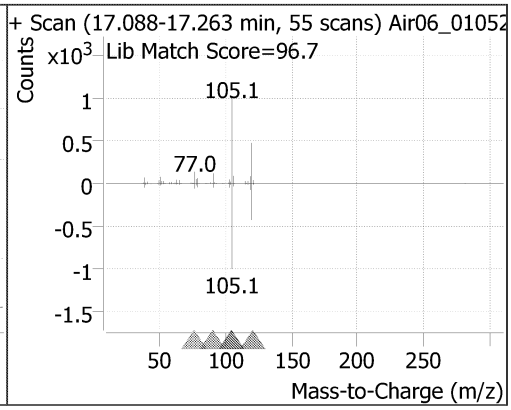



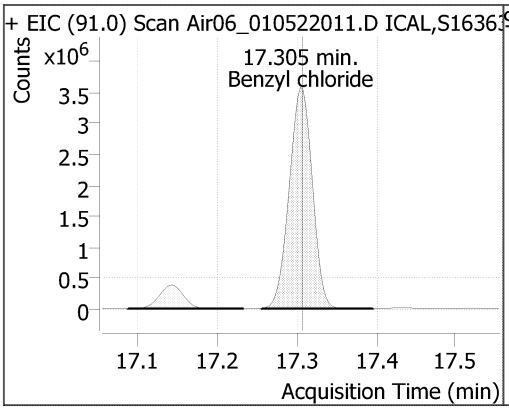

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 30.0624 | 17.14 | 0.00 | 7503516 | 120.0 | 45.8 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.4 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.6 | 8.6 | 12.9 |

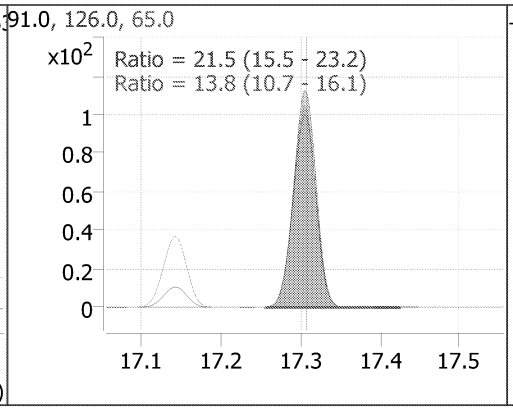


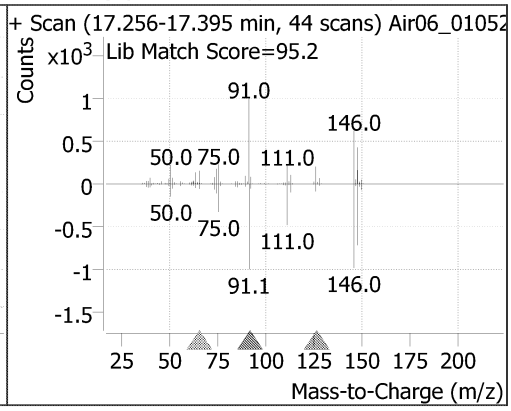



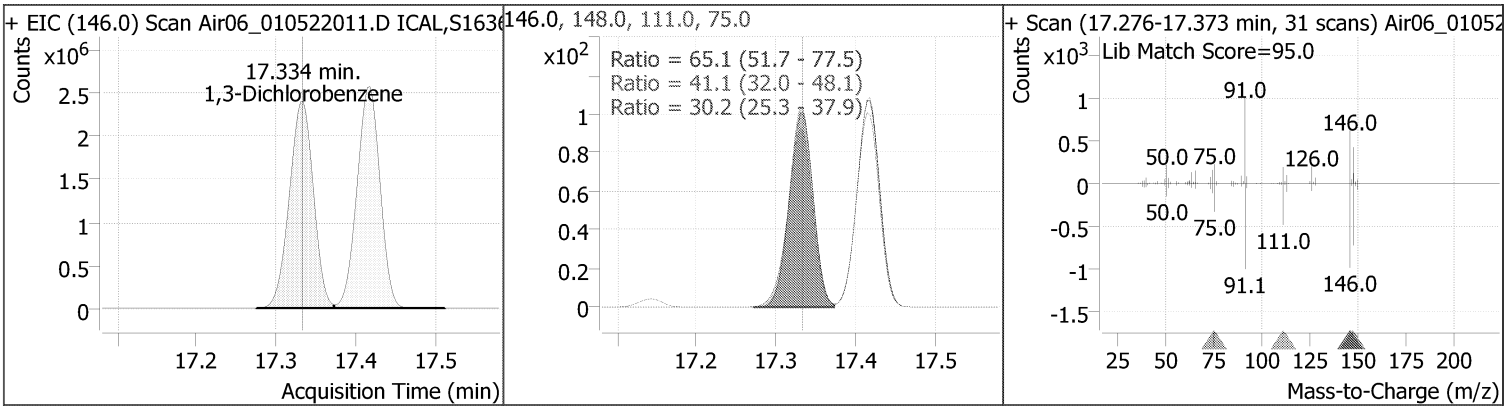

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 33.0494 | 17.30 | 0.00 | 7253310 | 126.0 | 21.5 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.8 | 10.7 | 16.1 |



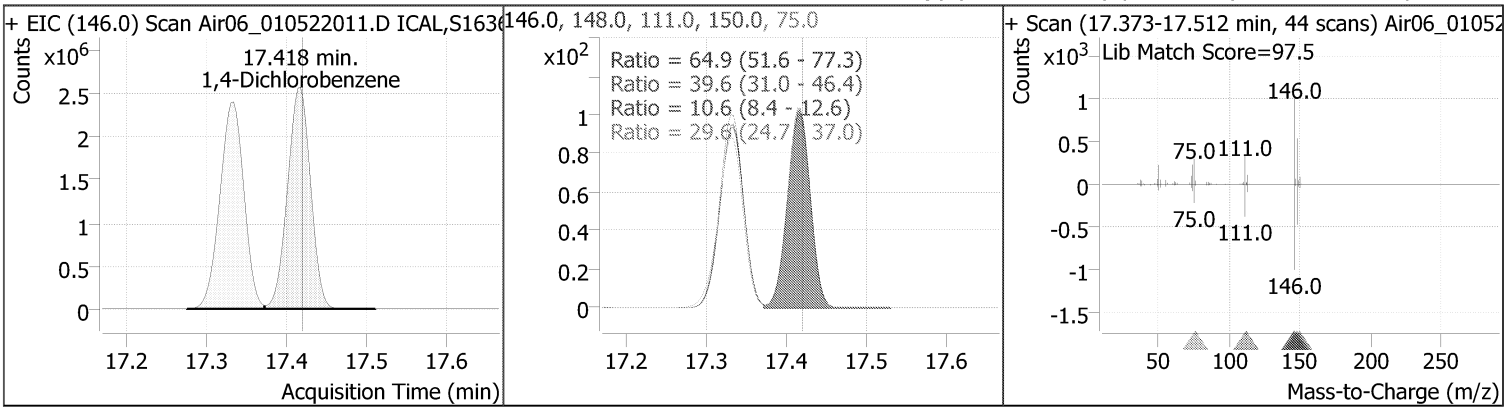



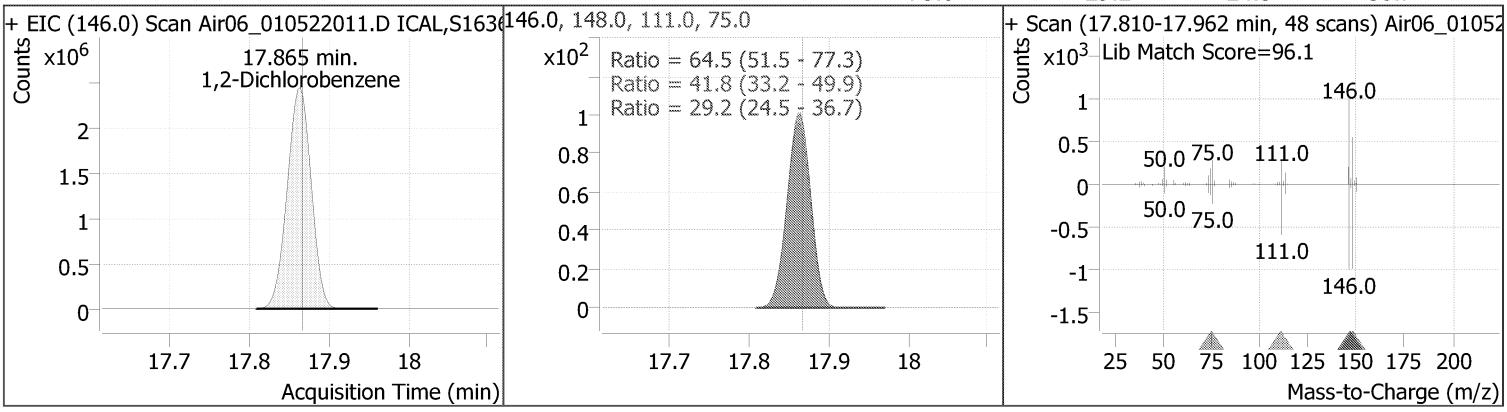
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 29.6993 | 17.33 | 0.01 | 5084595 | 148.0 | 65.1 | 51.7 | 77.5 |
| | | | | | 111.0 | 41.1 | 32.0 | 48.1 |
| | | | | | 75.0 | 30.2 | 25.3 | 37.9 |



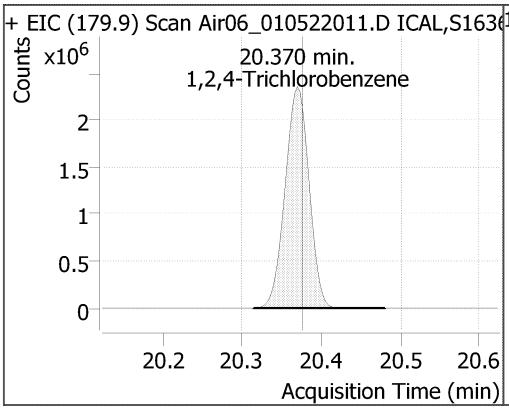

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 30.0807 | 17.42 | 0.00 | 5207577 | 148.0 | 64.9 | 51.6 | 77.3 |
| | | | | | 111.0 | 39.6 | 31.0 | 46.4 |
| | | | | | 75.0 | 29.6 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.6 | 8.4 | 12.6 |

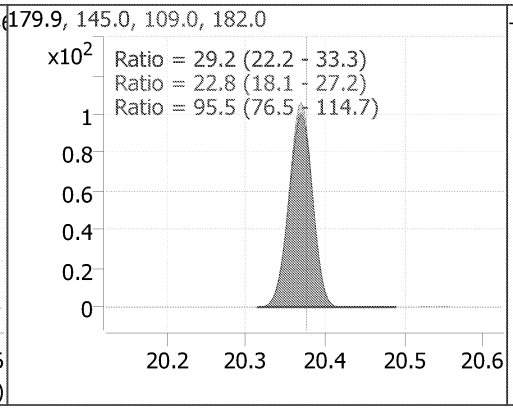


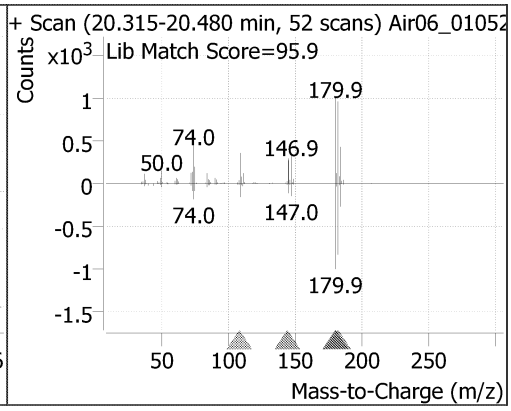

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 30.5891 | 17.86 | 0.00 | 5107787 | 148.0 | 64.5 | 51.5 | 77.3 |
| | | | | | 111.0 | 41.8 | 33.2 | 49.9 |
| | | | | | 75.0 | 29.2 | 24.5 | 36.7 |



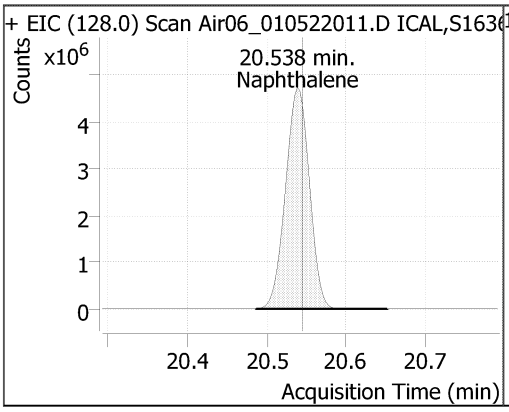
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 35.9712 | 20.37 | 0.00 | 4949475 | 182.0 | 95.5 | 76.5 | 114.7 |
| | | | | | 145.0 | 29.2 | 22.2 | 33.3 |
| | | | | | 109.0 | 22.8 | 18.1 | 27.2 |

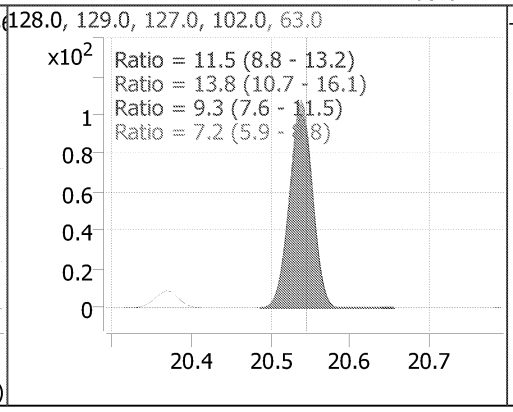


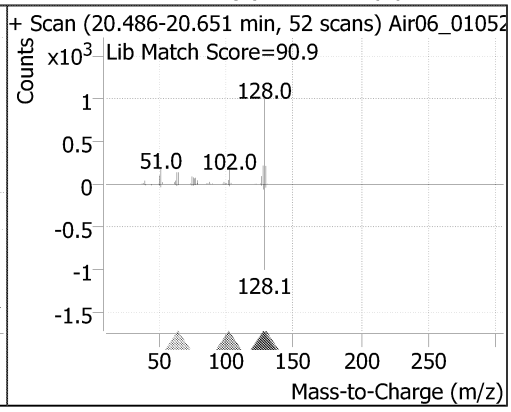



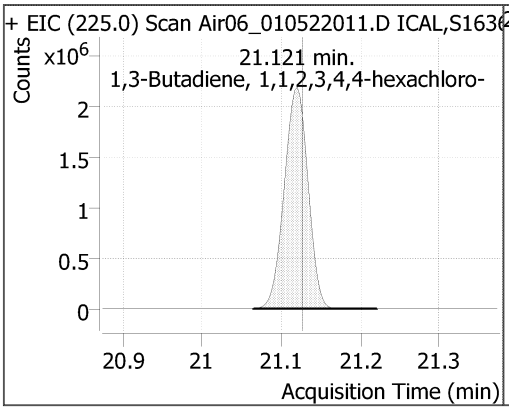

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 34.7988 | 20.54 | 0.00 | 9910425 | 127.0 | 13.8 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.5 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.3 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.2 | 5.9 | 8.8 |

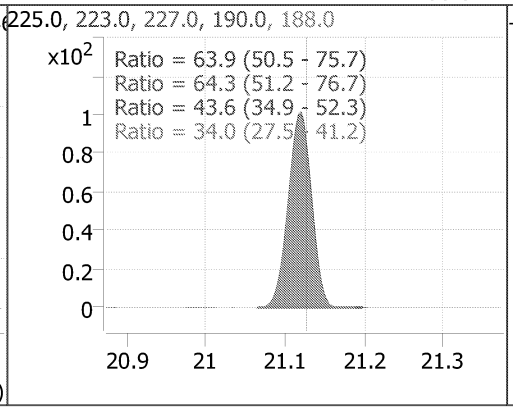


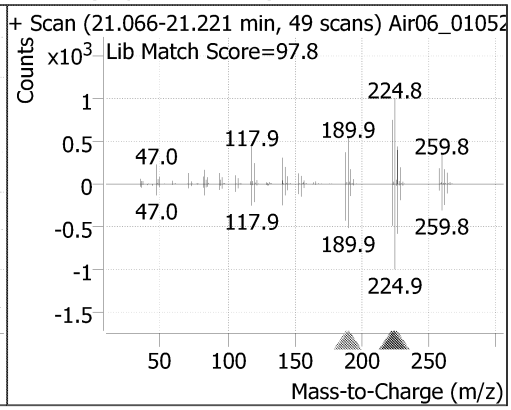




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 30.8531 | 21.12 | 0.00 | 4561780 | 227.0 | 64.3 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.9 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.6 | 34.9 | 52.3 |
| | | | | | 188.0 | 34.0 | 27.5 | 41.2 |

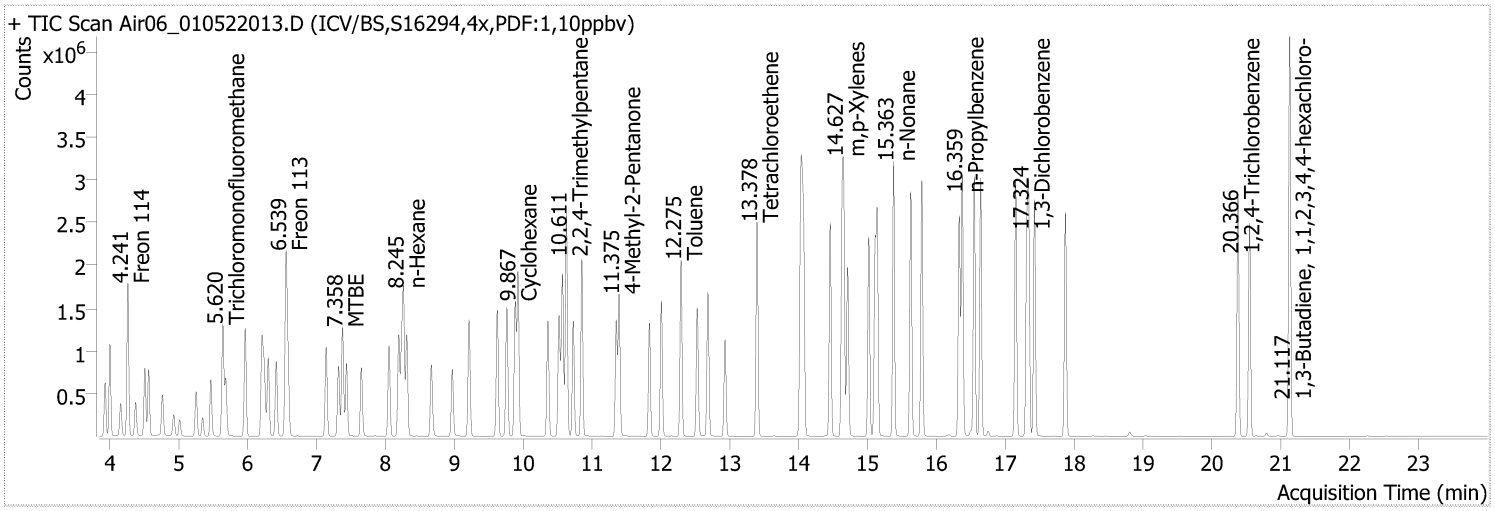


# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_010522013.D | Operator | DJL/LJB |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/5/2022 11:37:09 PM |
| Sample Name | ICV/BS,S16294,4x,PDF:1,10ppbv | Instrument | Air-MS-06 |
| Vial | 8 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 220105_ICAL.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



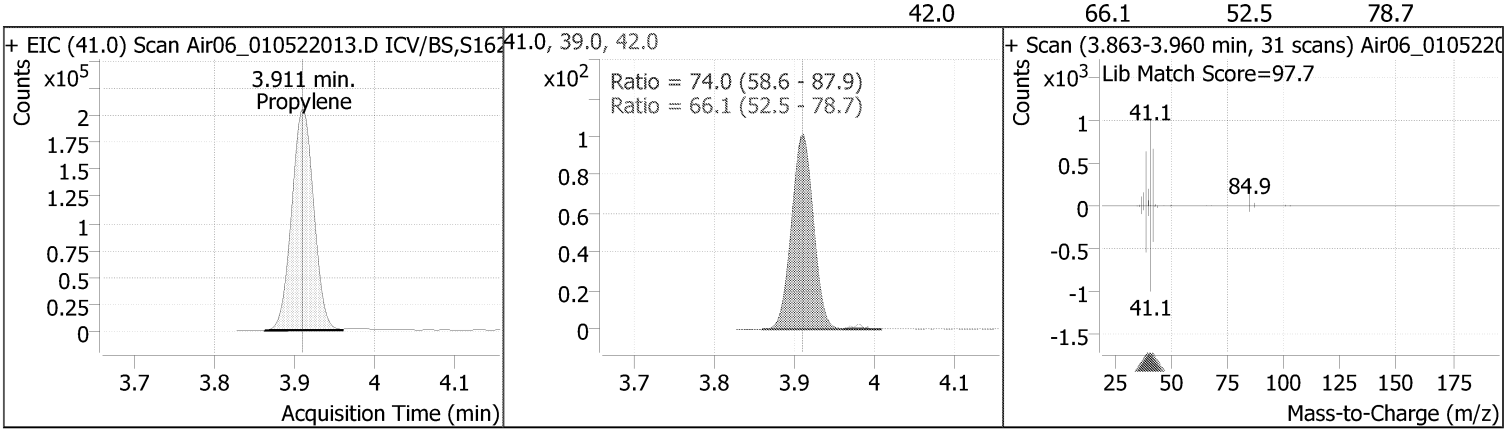

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 430407 | 10.0000 | nL/L | 0.000 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1623935 | 10.0000 | nL/L | 0.000 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 880516 | 10.0000 | nL/L | 0.000 |
| **System Monitoring Compounds** | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1164600 | 10.0580 | nL/L | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 100.58% | | |
| **Target Compounds** | | | | | | QValue |
| T Propylene | 3.911 | 41.0 | 397248 | 9.3691 | nL/L | 99 |
| T Freon 12 | 3.979 | 85.0 | 1006692 | 8.9748 | nL/L | 99 |
| T Chloromethane | 4.134 | 50.0 | 464519 | 8.8134 | nL/L | 99 |
| T Freon 114 | 4.241 | 135.0 | 708219 | 8.9497 | nL/L | 97 |
| T Vinyl Chloride | 4.351 | 62.0 | 461874 | 8.7610 | nL/L | 99 |
| T 1,3-Butadiene | 4.487 | 54.0 | 404118 | 8.9508 | nL/L | 97 |
| T Butane | 4.542 | 43.0 | 773514 | 8.8270 | nL/L | 98 |
| T Bromomethane | 4.743 | 96.0 | 343668 | 8.8539 | nL/L | 99 |
| T Chloroethane | 4.908 | 64.0 | 228255 | 8.7831 | nL/L | 100 |
| T Ethanol | 4.992 | 45.0 | 235298 | 9.0655 | nL/L | 99 |
| T Vinyl bromide | 5.232 | 108.0 | 402750 | 8.8421 | nL/L | 99 |
| T Acrolein | 5.326 | 56.0 | 199285 | 8.7034 | nL/L | 100 |
| T Acetone | 5.445 | 58.0 | 244966 | 9.0556 | nL/L | 99 |
| T Trichloromonofluoromethane | 5.620 | 101.0 | 1171084 | 8.8580 | nL/L | 100 |
| T Isopropanol (IPA) | 5.662 | 45.0 | 938995 | 9.6932 | nL/L | 99 |
| T n-Pentane | 5.947 | 43.0 | 949799 | 8.7715 | nL/L | 99 |
| T 1,1-Dichloroethene | 6.190 | 61.0 | 872024 | 8.8598 | nL/L | 98 |
| T Tert-butyl alcohol (TBA) | 6.219 | 59.0 | 1005224 | 8.9670 | nL/L | 96 |
| T Methylene Chloride | 6.280 | 84.0 | 400341 | 8.4063 | nL/L | 96 |
| T 3-Chloropropene | 6.397 | 76.0 | 193136 | 8.7974 | nL/L | 99 |
| T Freon 113 | 6.539 | 101.0 | 934158 | 8.7921 | nL/L | 99 |
| T Carbon Disulfide | 6.568 | 76.0 | 1208161 | 8.7776 | nL/L | 100 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.122 | 61.0 | 721009 | 8.7467 | nL/L | | 99 |
| T 1,1-Dichloroethane | 7.300 | 63.0 | 889779 | 8.7910 | nL/L | | 100 |
| T MTBE | 7.358 | 73.0 | 1176854 | 8.7744 | nL/L | | 99 |
| T Vinyl Acetate | 7.416 | 43.0 | 1400815 | 8.2478 | nL/L | | 100 |
| T 2-Butanone | 7.630 | 43.0 | 1147326 | 8.7689 | nL/L | | 96 |
| T cis-1,2-Dichloroethene | 8.035 | 61.0 | 731282 | 8.7710 | nL/L | | 99 |
| T Ethyl Acetate | 8.216 | 61.0 | 178929 | 8.7104 | nL/L | | 95 |
| T n-Hexane | 8.245 | 57.0 | 820626 | 8.6985 | nL/L | | 99 |
| T Chloroform | 8.290 | 83.0 | 933824 | 8.7781 | nL/L | | 99 |
| T Tetrahydrofuran | 8.650 | 72.0 | 205944 | 8.7764 | nL/L | | 94 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 678570 | 8.7112 | nL/L | | 100 |
| T 1,1,1-Trichloroethane | 9.197 | 97.0 | 912963 | 8.8723 | nL/L | | 99 |
| T Benzene | 9.608 | 78.0 | 1331774 | 8.6841 | nL/L | | 98 |
| T Carbon Tetrachloride | 9.744 | 117.0 | 970611 | 8.8415 | nL/L | | 100 |
| T Cyclohexane | 9.867 | 84.0 | 546520 | 8.5298 | nL/L | | 99 |
| T 1,2-Dichloropropane | 10.342 | 63.0 | 587874 | 8.8380 | nL/L | | 98 |
| T Methane, bromodichloro- | 10.501 | 83.0 | 966960 | 8.9090 | nL/L | | 99 |
| T 1,4-Dioxane | 10.533 | 88.0 | 306190 | 8.8210 | nL/L | | 98 |
| T Trichloroethene | 10.556 | 132.0 | 596616 | 8.8170 | nL/L | | 97 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 2618946 | 8.6513 | nL/L | | 100 |
| T Methyl methacrylate | 10.711 | 69.0 | 502085 | 8.8920 | nL/L | | 100 |
| T n-Heptane | 10.834 | 71.0 | 458280 | 8.7635 | nL/L | | 96 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 187231 | 8.8668 | nL/L | # | 80 |
| T 4-Methyl-2-Pentanone | 11.375 | 58.0 | 508081 | 8.7089 | nL/L | | 98 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 193230 | 8.9253 | nL/L | | 90 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 564209 | 8.9068 | nL/L | | 98 |
| T Toluene | 12.275 | 91.0 | 1674561 | 8.6998 | nL/L | | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 232118589 | 16.3652 | nL/L | | 100 |
| T 2-Hexanone | 12.511 | 58.0 | 672543 | 8.9754 | nL/L | | 98 |
| T Dibromochloromethane | 12.666 | 129.0 | 1034076 | 8.9922 | nL/L | | 99 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 863679 | 8.8624 | nL/L | | 100 |
| T Tetrachloroethene | 13.378 | 166.0 | 876574 | 8.8086 | nL/L | | 98 |
| T 1,1,1,2-Tetrachloroethane | 14.032 | 131.0 | 678186 | 8.9253 | nL/L | | 98 |
| T Benzene, chloro- | 14.058 | 112.0 | 1315302 | 8.7229 | nL/L | | 97 |
| T Ethylbenzene | 14.443 | 91.0 | 2097324 | 8.7551 | nL/L | | 98 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 176647915 | 17.0511 | nL/L | | 100 |
| T m,p-Xylenes | 14.627 | 91.0 | 3357424 | 17.4266 | nL/L | | 97 |
| T Bromoform | 14.696 | 173.0 | 1194794 | 9.0544 | nL/L | | 100 |
| T Styrene | 15.003 | 104.0 | 1330536 | 8.7147 | nL/L | | 97 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 1281613 | 8.8031 | nL/L | | 99 |
| T o-Xylene | 15.126 | 91.0 | 1728520 | 8.7265 | nL/L | | 98 |
| T n-Nonane | 15.363 | 85.0 | 401126 | 8.7656 | nL/L | | 99 |
| T Isopropylbenzene | 15.774 | 105.0 | 2379235 | 8.7624 | nL/L | | 98 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 607485 | 8.7841 | nL/L | | 97 |
| T n-Propylbenzene | 16.359 | 120.0 | 673117 | 8.8725 | nL/L | | 82 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 2357212 | 8.7726 | nL/L | | 97 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 1977385 | 8.5010 | nL/L | | 95 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 2047836 | 8.8640 | nL/L | | 97 |
| T Benzyl chloride | 17.298 | 91.0 | 1904818 | 9.3768 | nL/L | | 97 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 1398121 | 8.8228 | nL/L | | 99 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 1403054 | 8.7559 | nL/L | | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 1372677 | 8.8813 | nL/L | | 99 |
| T 1,2,4-Trichlorobenzene | 20.366 | 179.9 | 1188381 | 9.3309 | nL/L | | 100 |
| T Naphthalene | 20.535 | 128.0 | 2430554 | 9.2204 | nL/L | | 99 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.117 | 225.0 | 1252144 | 9.1494 | nL/L | | 99 |

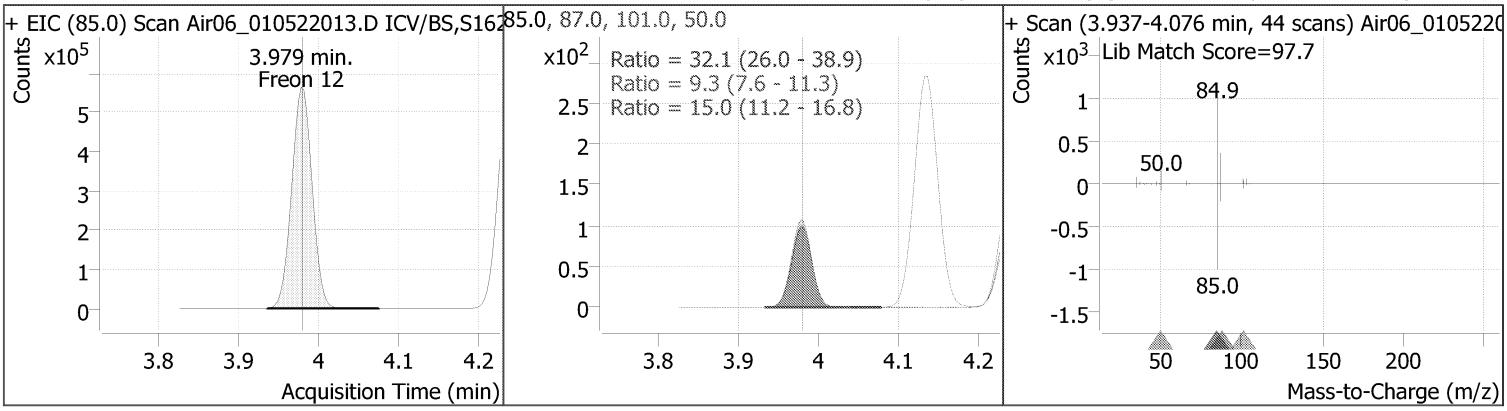
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

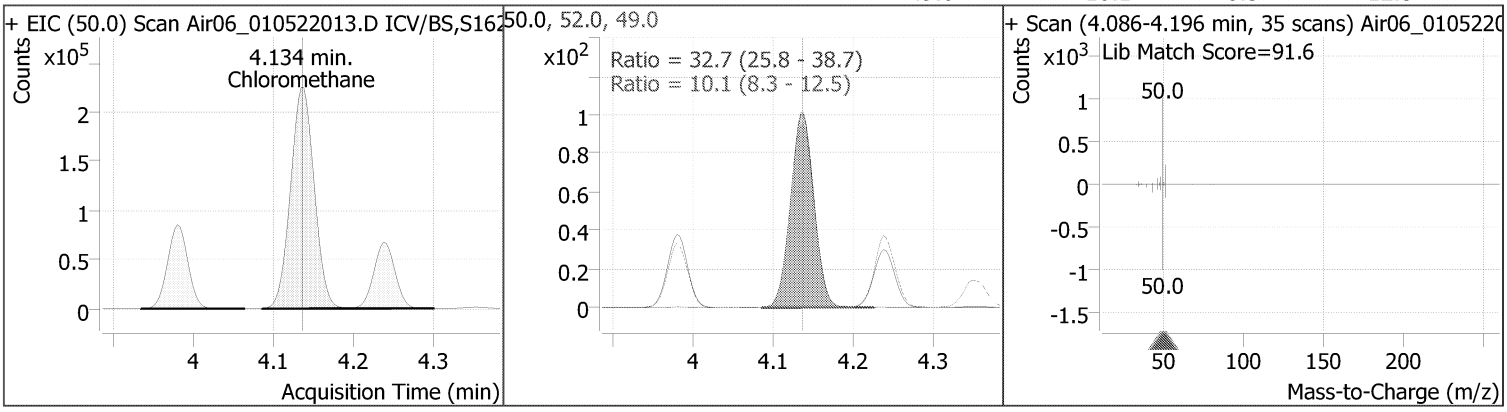
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 9.3691 | 3.91 | 0.00 | 397248 | 39.0 | 74.0 | 58.6 | 87.9 |
| | | | | | 42.0 | 66.1 | 52.5 | 78.7 |



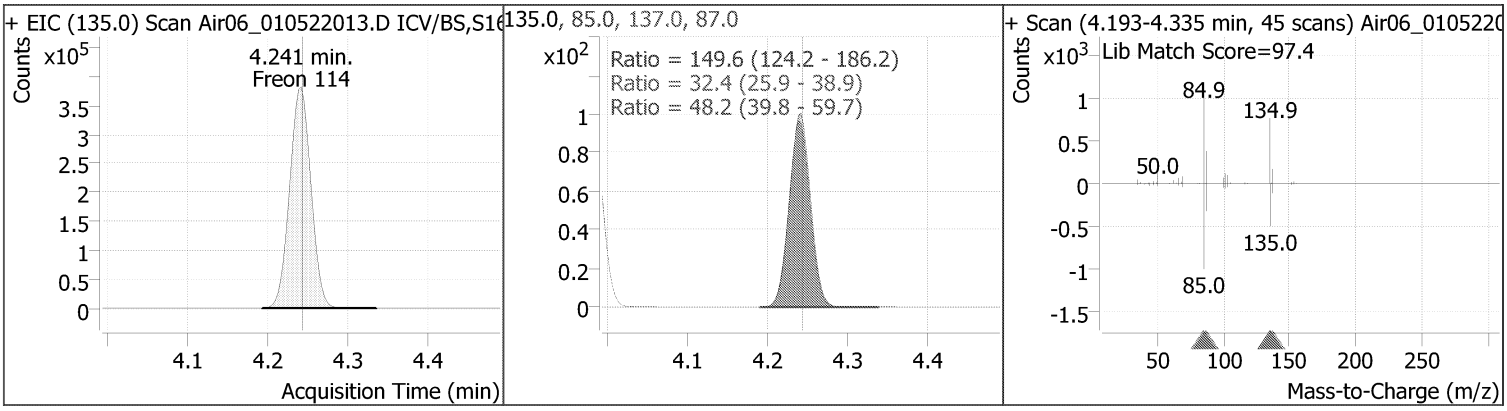

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 8.9748 | 3.98 | 0.00 | 1006692 | 87.0 | 32.1 | 26.0 | 38.9 |
| | | | | | 50.0 | 15.0 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.3 | 7.6 | 11.3 |



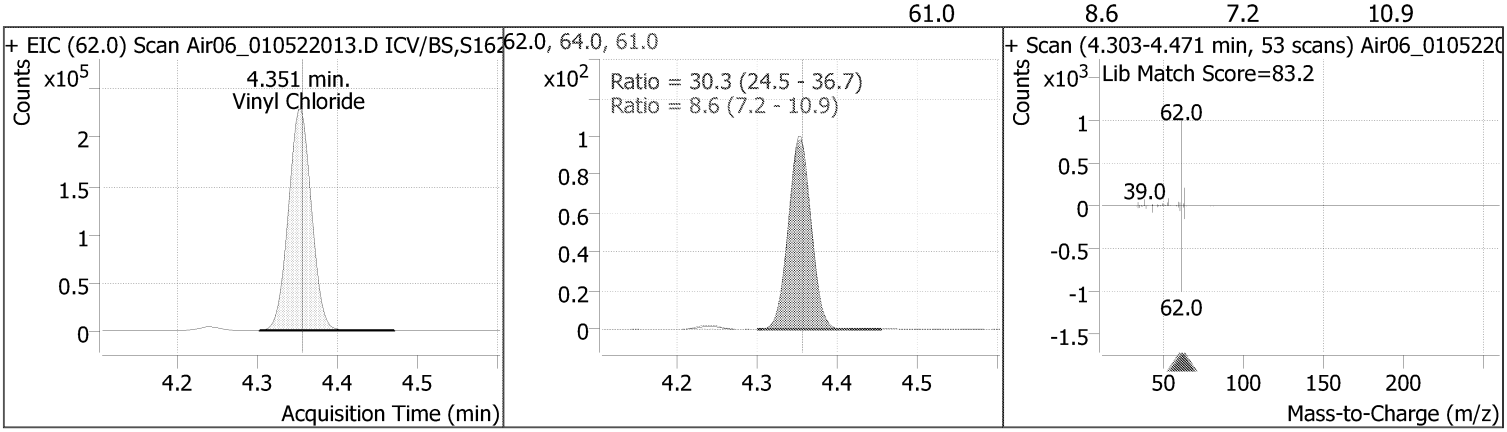

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 8.8134 | 4.13 | 0.00 | 464519 | 52.0 | 32.7 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.1 | 8.3 | 12.5 |



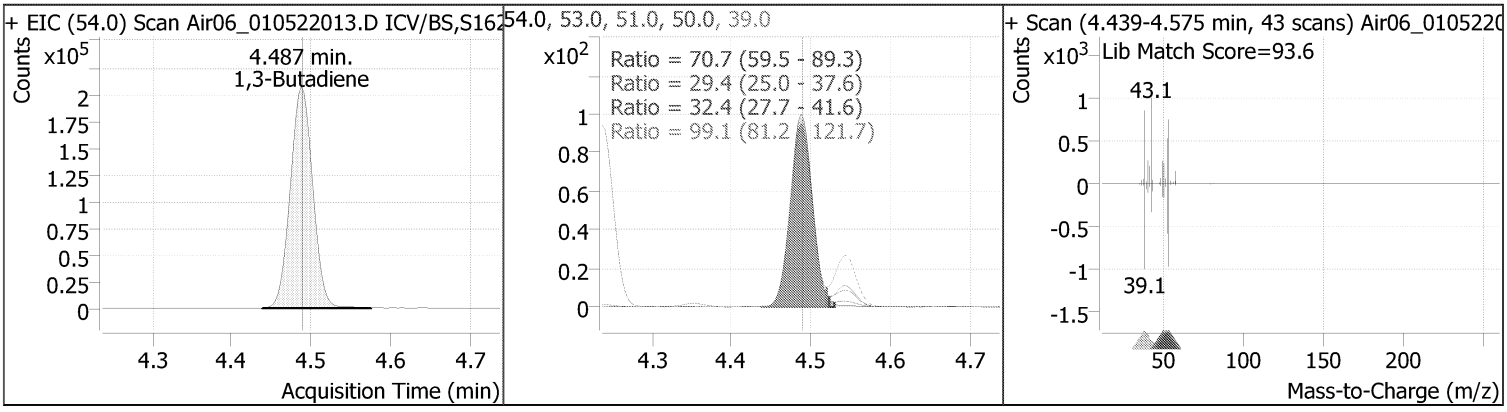
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 8.9497 | 4.24 | 0.00 | 708219 | 85.0 | 149.6 | 124.2 | 186.2 |
| | | | | | 87.0 | 48.2 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.4 | 25.9 | 38.9 |



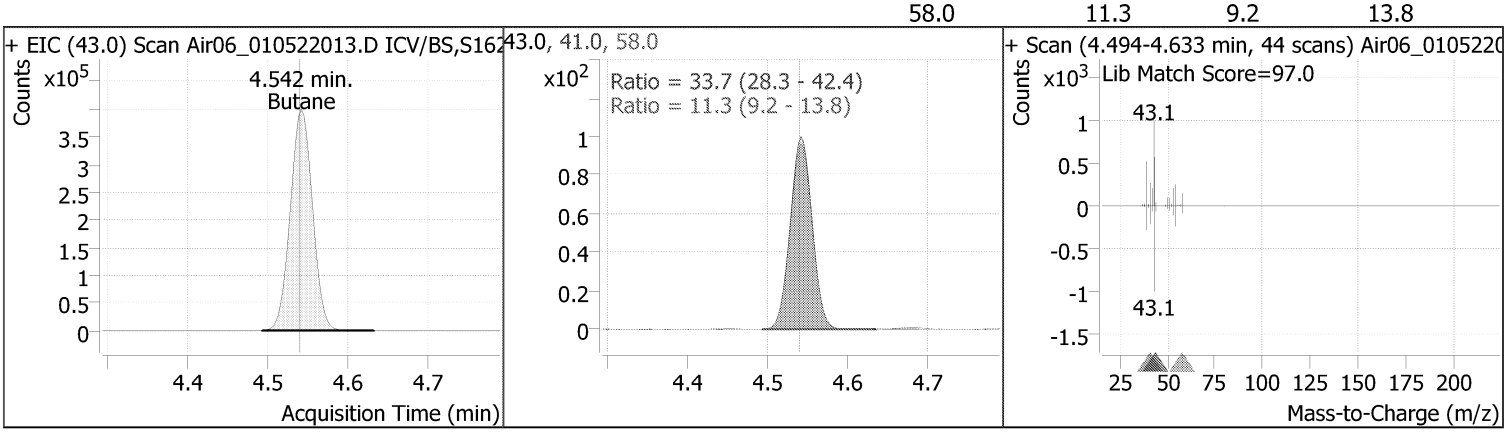

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 8.7610 | 4.35 | 0.00 | 461874 | 64.0 | 30.3 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.6 | 7.2 | 10.9 |



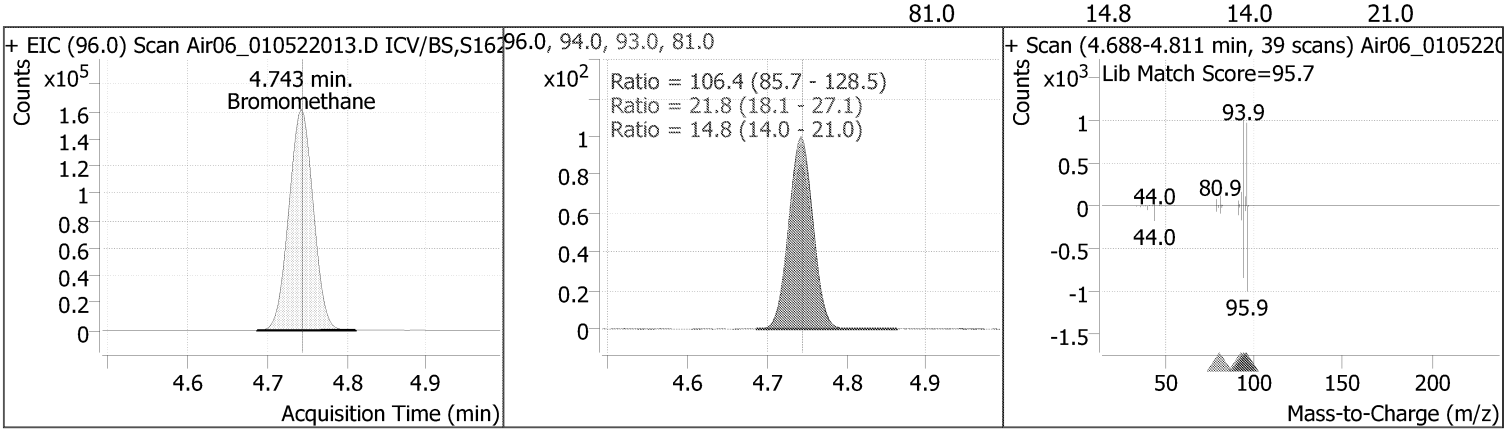

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 8.9508 | 4.49 | 0.00 | 404118 | 39.0 | 99.1 | 81.2 | 121.7 |
| | | | | | 53.0 | 70.7 | 59.5 | 89.3 |
| | | | | | 50.0 | 32.4 | 27.7 | 41.6 |
| | | | | | 51.0 | 29.4 | 25.0 | 37.6 |



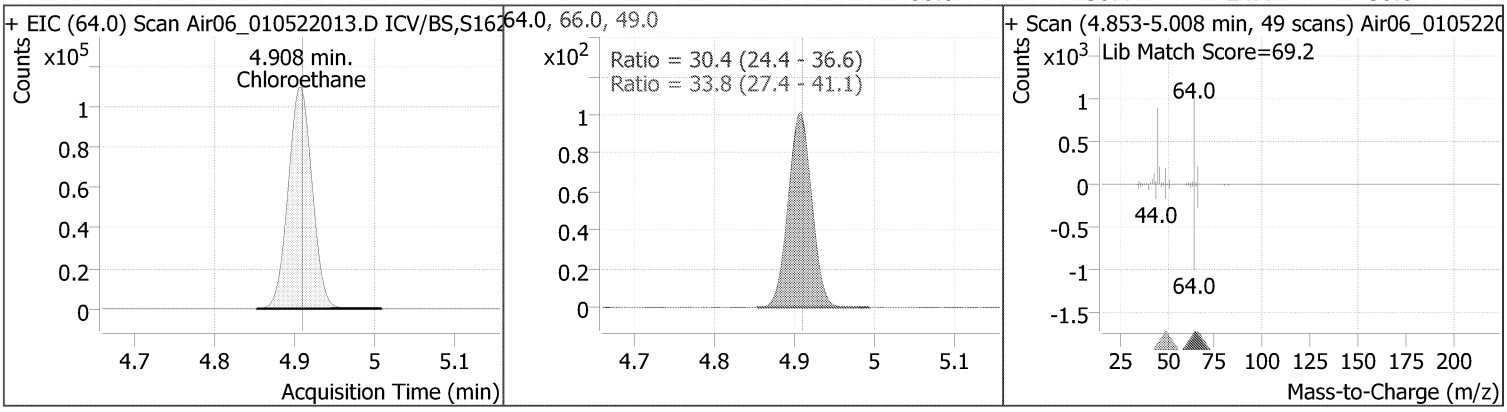
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 8.8270 | 4.54 | 0.00 | 773514 | 41.0 | 33.7 | 28.3 | 42.4 |
| | | | | | 58.0 | 11.3 | 9.2 | 13.8 |



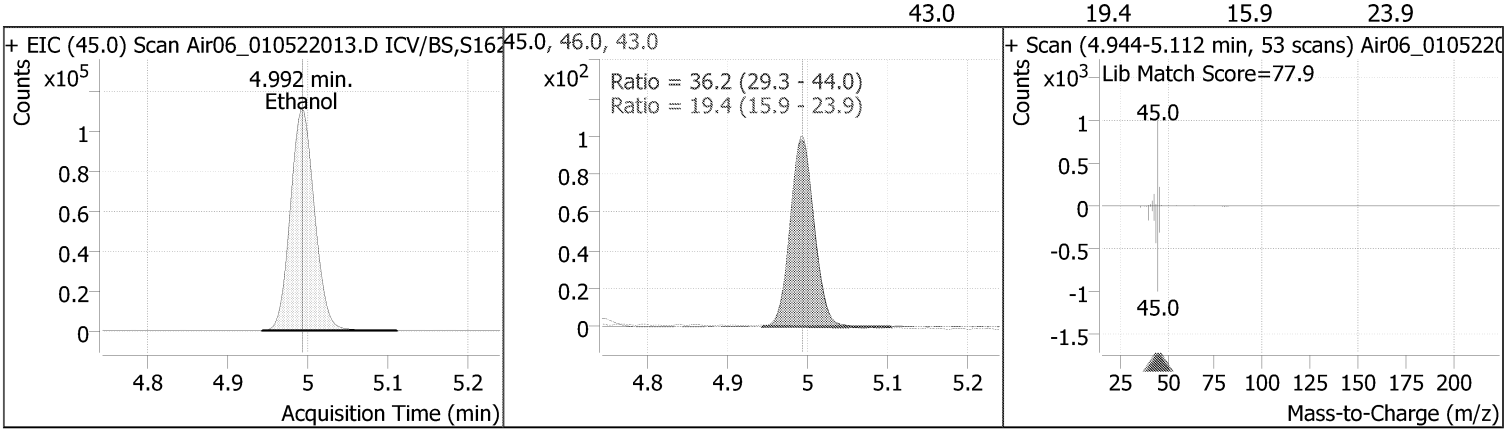

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 8.8539 | 4.74 | 0.00 | 343668 | 94.0 | 106.4 | 85.7 | 128.5 |
| | | | | | 93.0 | 21.8 | 18.1 | 27.1 |
| | | | | | 81.0 | 14.8 | 14.0 | 21.0 |



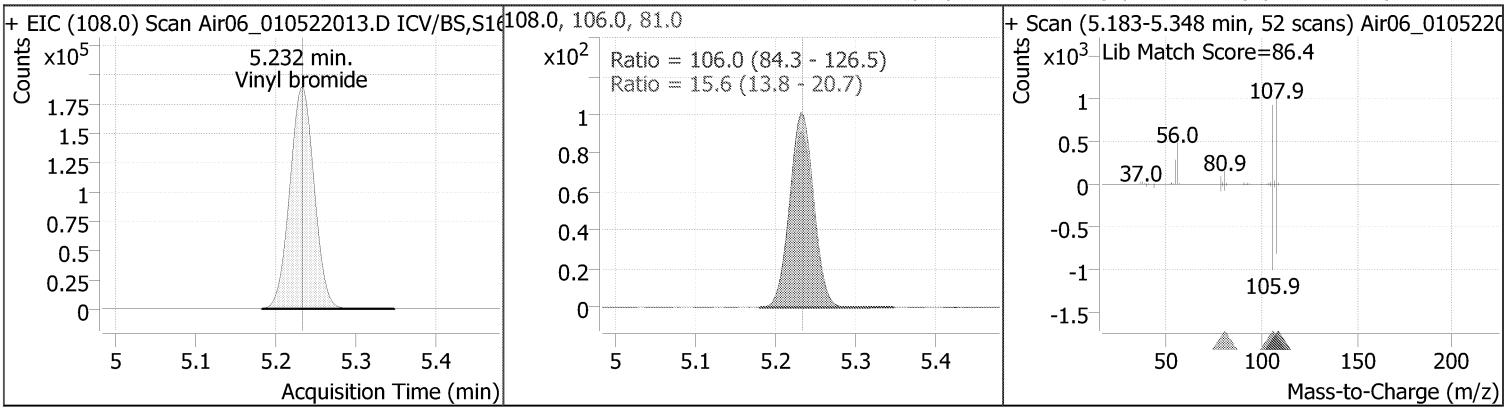

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 8.7831 | 4.91 | 0.00 | 228255 | 49.0 | 33.8 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.4 | 24.4 | 36.6 |



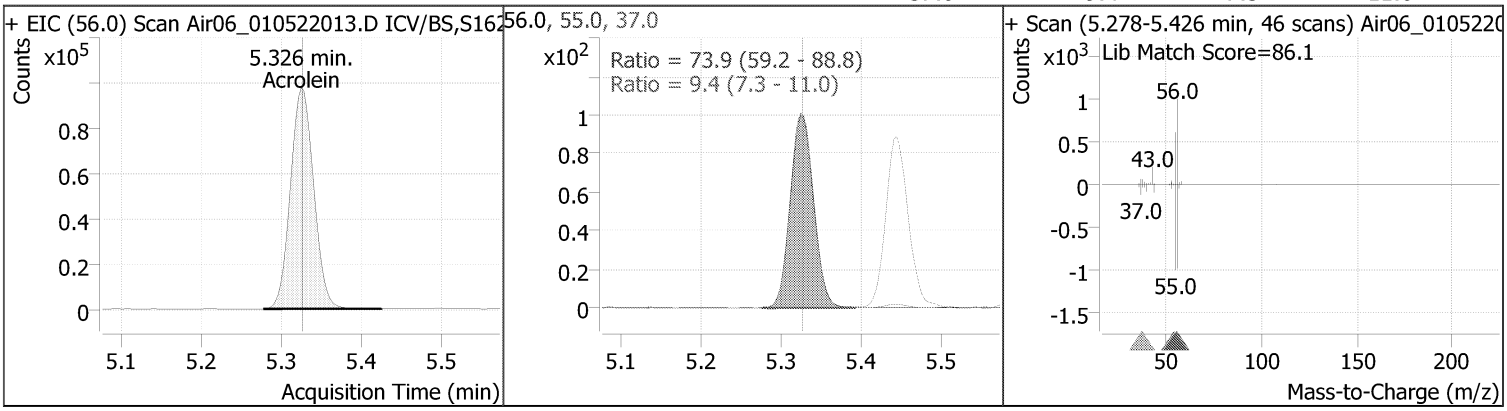
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 9.0655 | 4.99 | 0.00 | 235298 | 46.0 | 36.2 | 29.3 | 44.0 |
| | | | | | 43.0 | 19.4 | 15.9 | 23.9 |



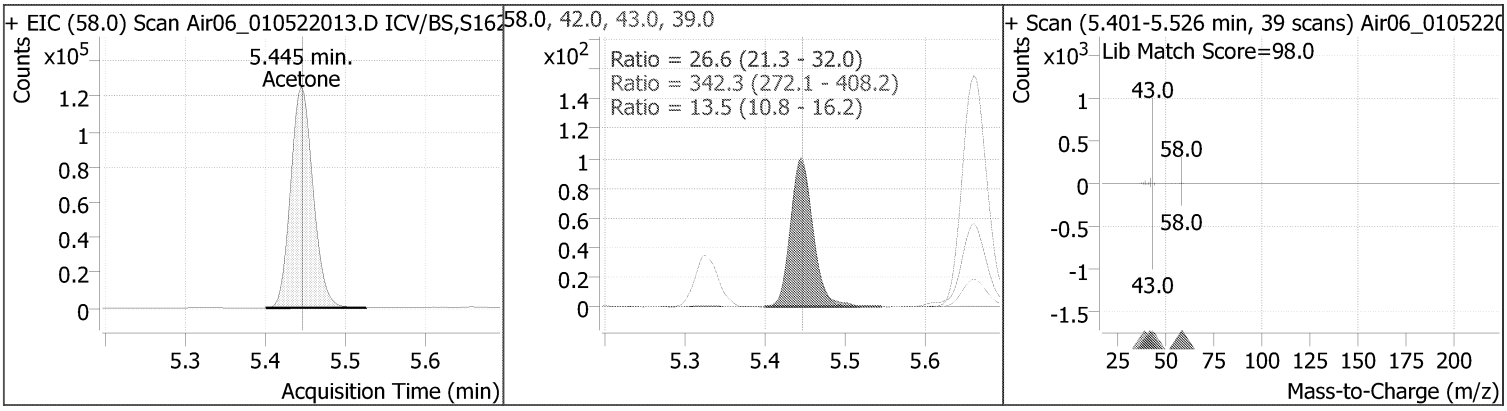

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 8.8421 | 5.23 | 0.00 | 402750 | 106.0 | 106.0 | 84.3 | 126.5 |
| | | | | | 81.0 | 15.6 | 13.8 | 20.7 |



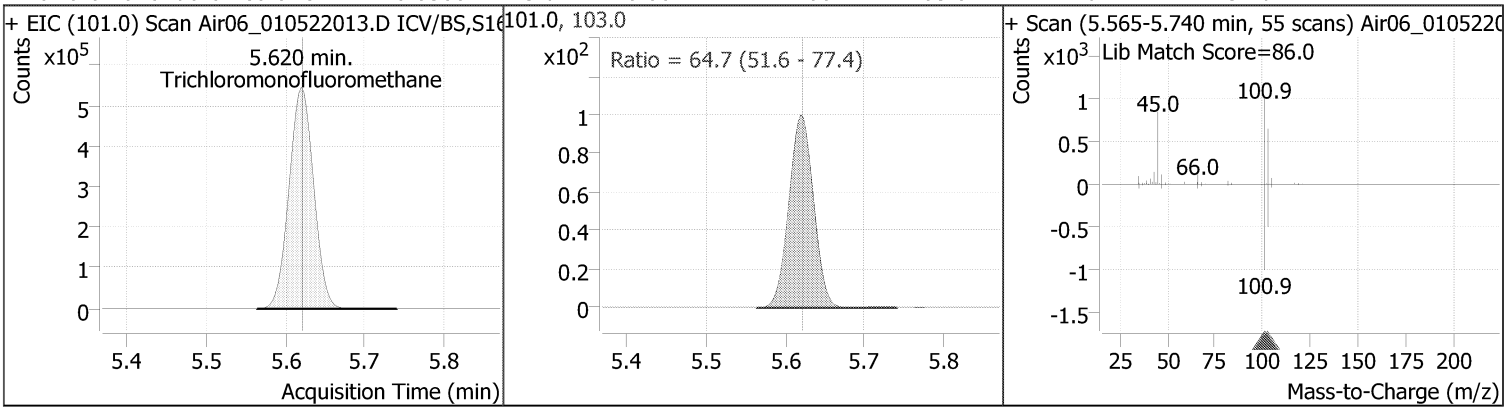

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 8.7034 | 5.33 | 0.00 | 199285 | 55.0 | 73.9 | 59.2 | 88.8 |
| | | | | | 37.0 | 9.4 | 7.3 | 11.0 |



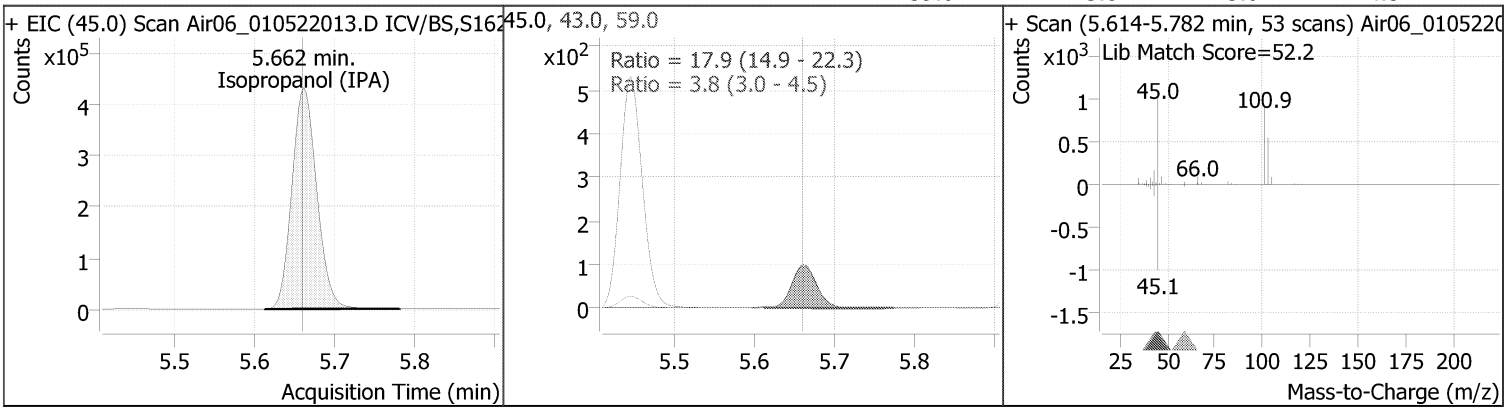
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 9.0556 | 5.45 | 0.00 | 244966 | 43.0 | 342.3 | 272.1 | 408.2 |
| | | | | | 42.0 | 26.6 | 21.3 | 32.0 |
| | | | | | 39.0 | 13.5 | 10.8 | 16.2 |



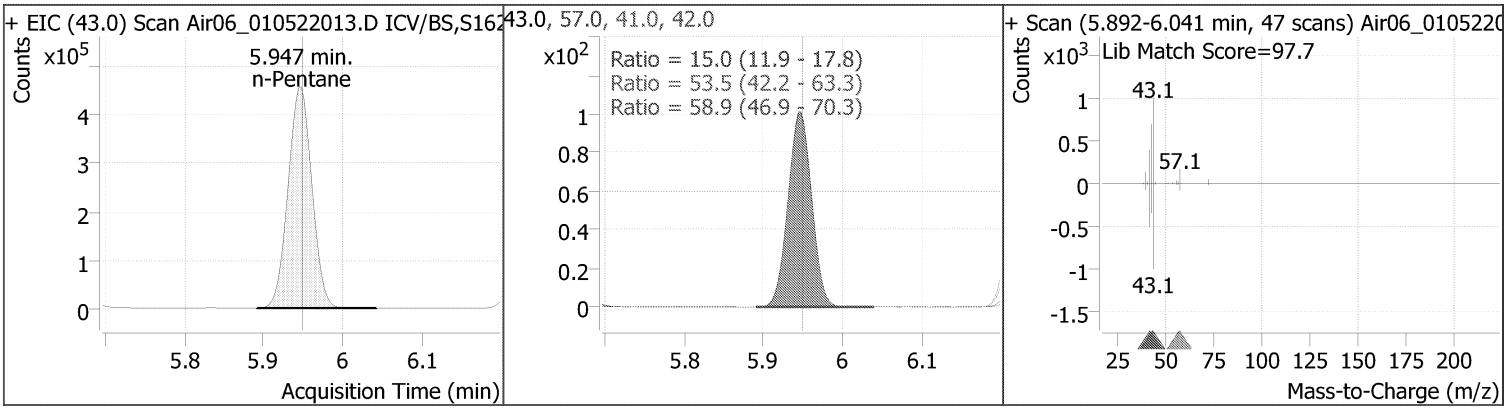

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 8.8580 | 5.62 | 0.00 | 1171084 | 103.0 | 64.7 | 51.6 | 77.4 |



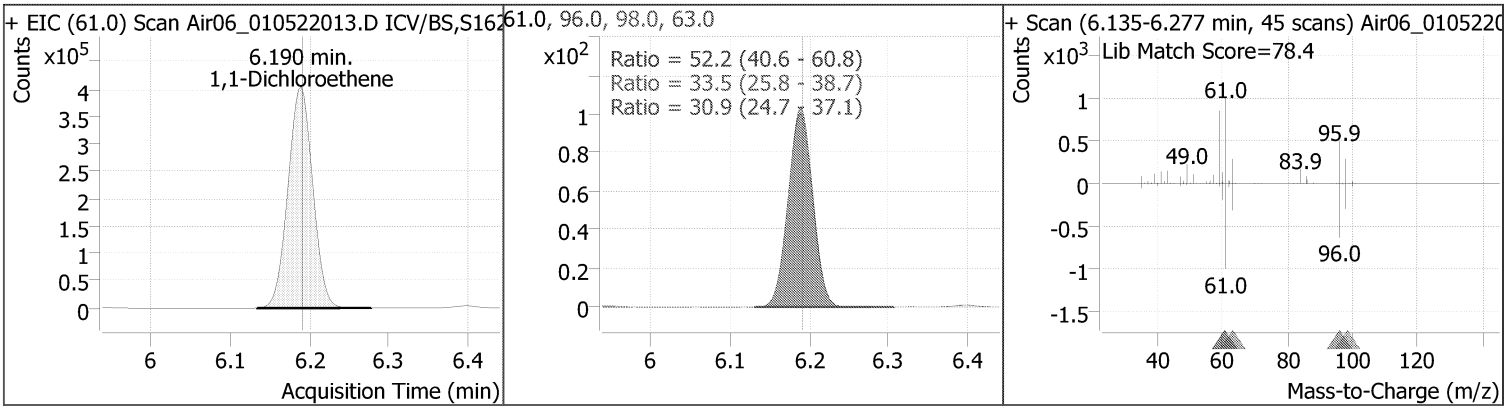

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 9.6932 | 5.66 | 0.00 | 938995 | 43.0 | 17.9 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.8 | 3.0 | 4.5 |



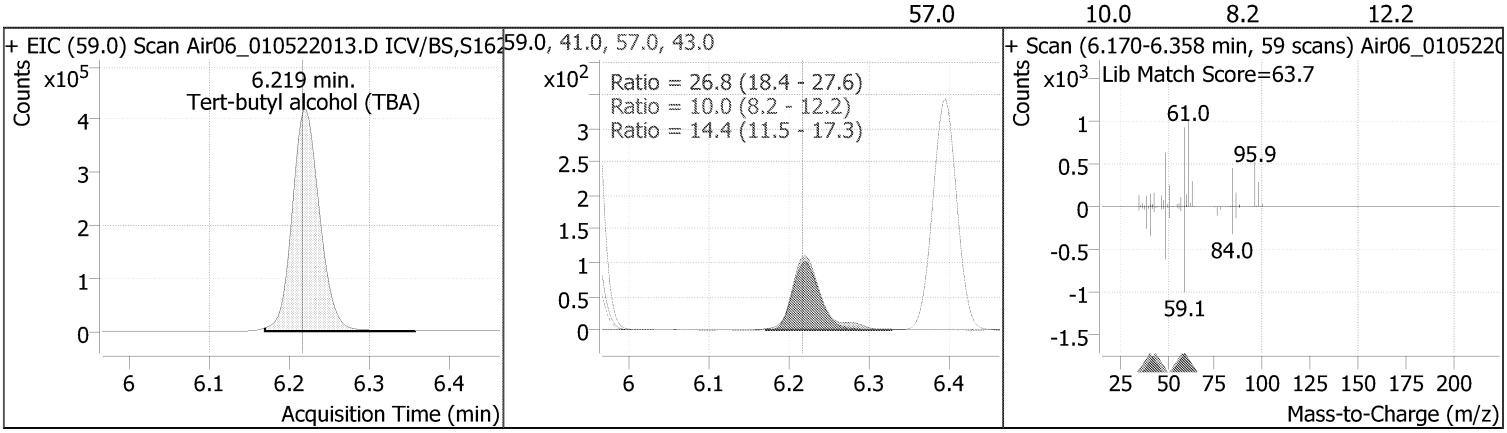
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 8.7715 | 5.95 | 0.00 | 949799 | 42.0 | 58.9 | 46.9 | 70.3 |
| | | | | | 41.0 | 53.5 | 42.2 | 63.3 |
| | | | | | 57.0 | 15.0 | 11.9 | 17.8 |



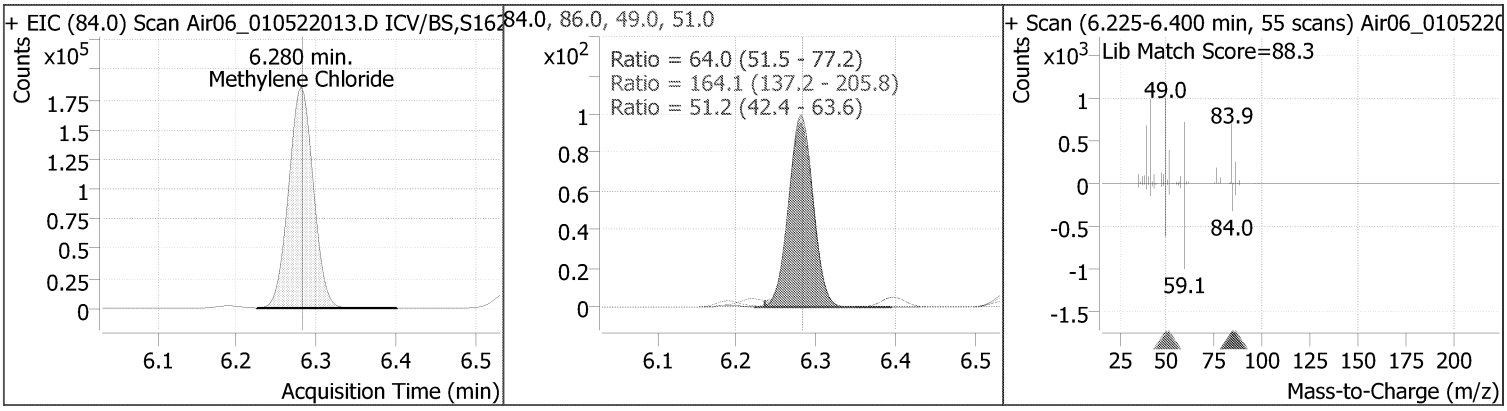

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 8.8598 | 6.19 | 0.00 | 872024 | 96.0 | 52.2 | 40.6 | 60.8 |
| | | | | | 98.0 | 33.5 | 25.8 | 38.7 |
| | | | | | 63.0 | 30.9 | 24.7 | 37.1 |



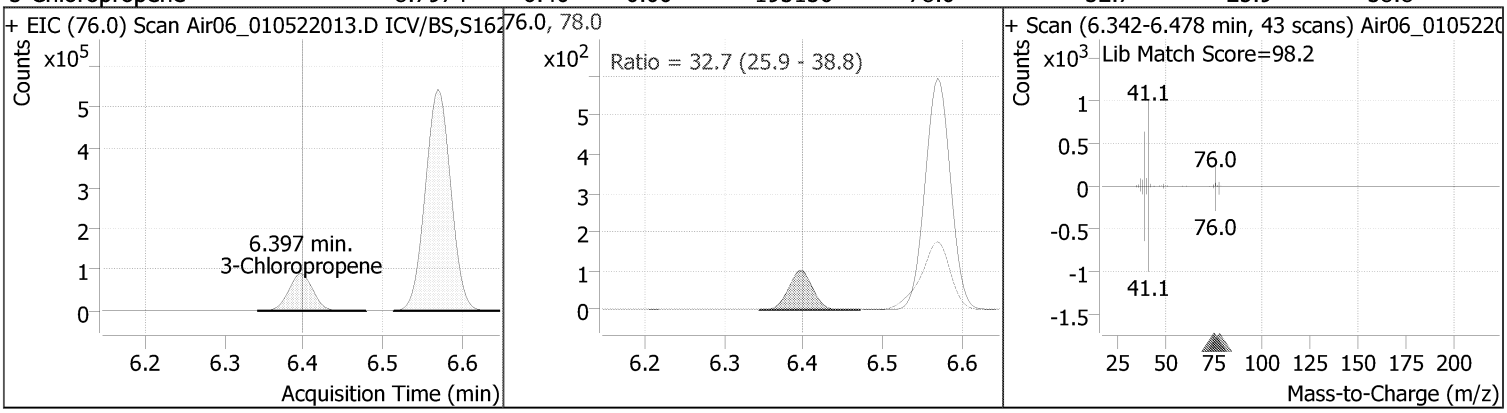

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 8.9670 | 6.22 | 0.00 | 1005224 | 41.0 | 26.8 | 18.4 | 27.6 |
| | | | | | 43.0 | 14.4 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.0 | 8.2 | 12.2 |



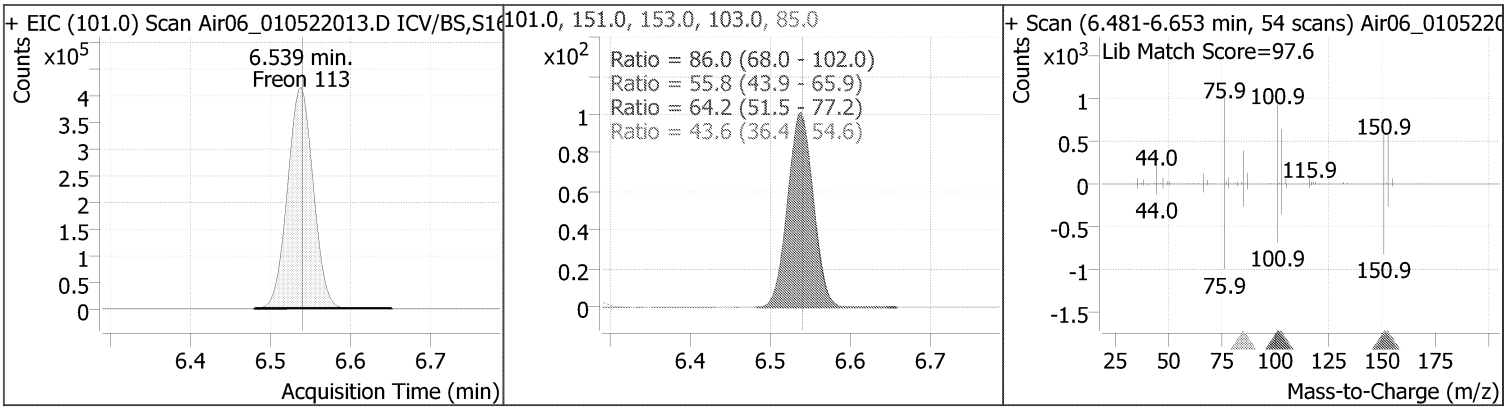
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 8.4063 | 6.28 | 0.00 | 400341 | 49.0 | 164.1 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.0 | 51.5 | 77.2 |
| | | | | | 51.0 | 51.2 | 42.4 | 63.6 |



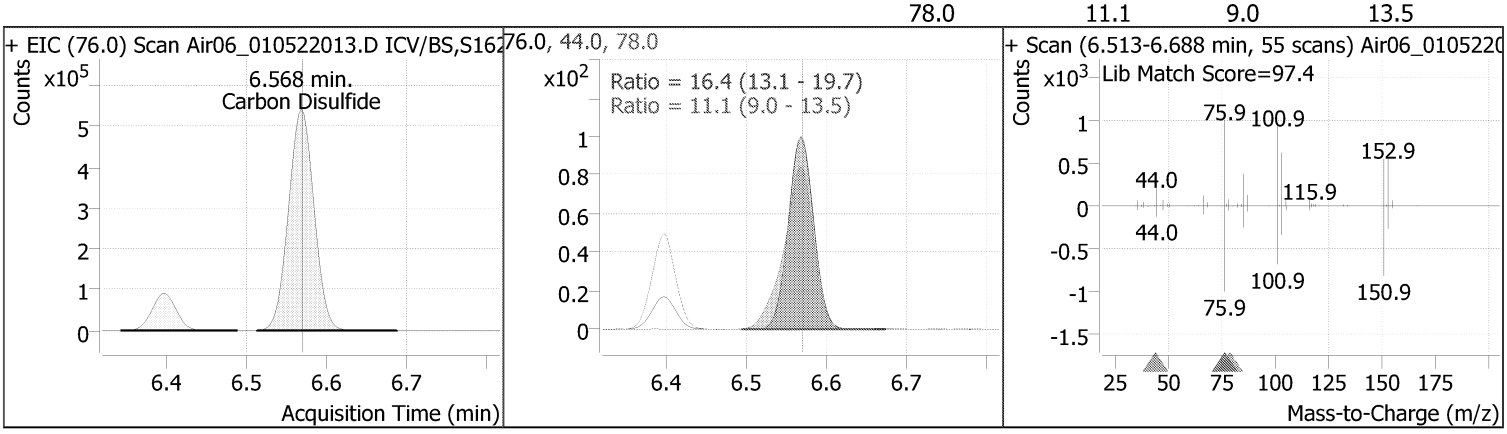

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 8.7974 | 6.40 | 0.00 | 193136 | 78.0 | 32.7 | 25.9 | 38.8 |



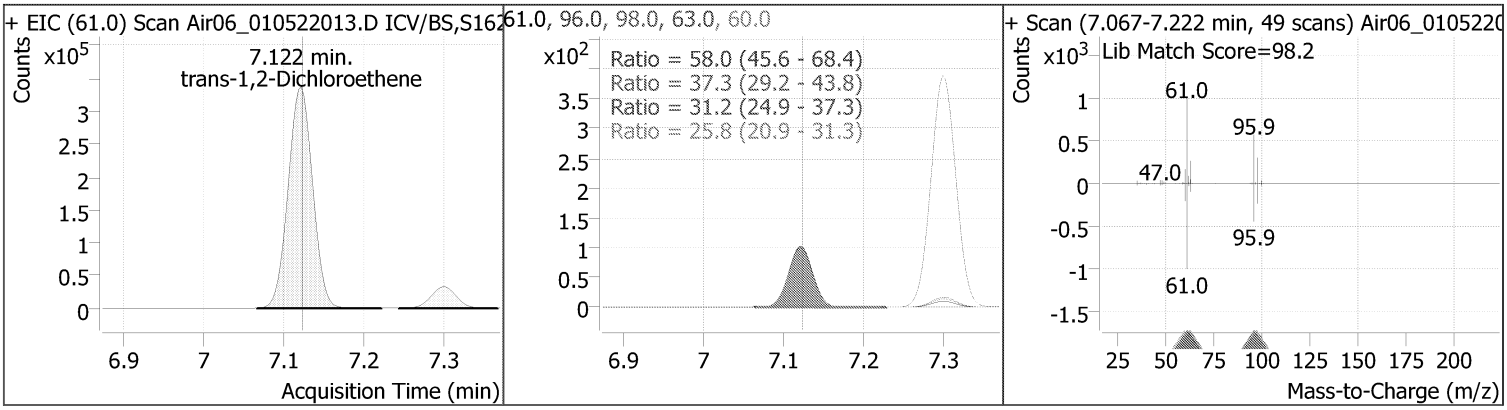

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 8.7921 | 6.54 | 0.00 | 934158 | 151.0 | 86.0 | 68.0 | 102.0 |
| | | | | | 103.0 | 64.2 | 51.5 | 77.2 |
| | | | | | 153.0 | 55.8 | 43.9 | 65.9 |
| | | | | | 85.0 | 43.6 | 36.4 | 54.6 |



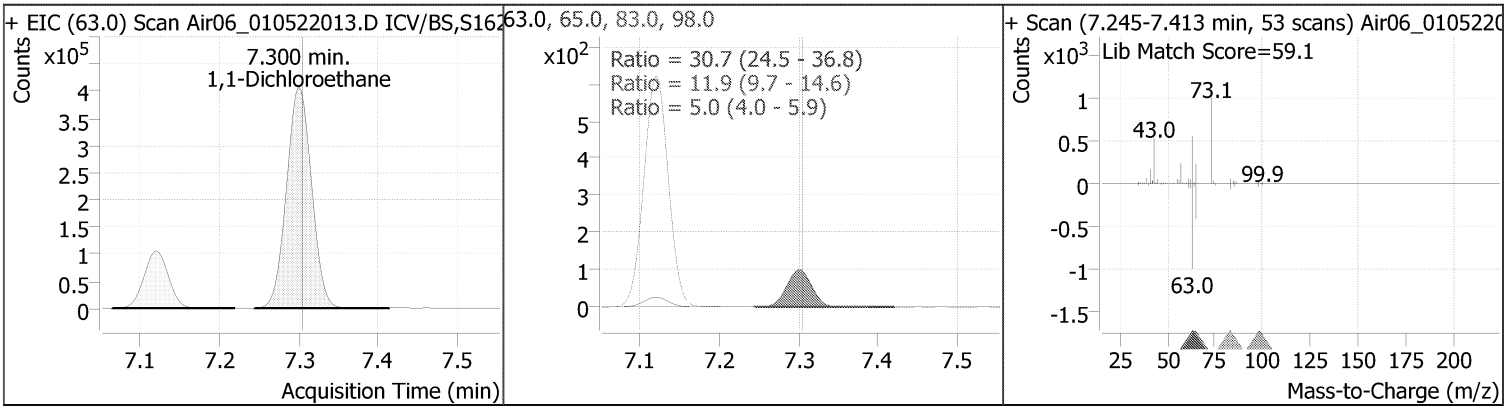
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 8.7776 | 6.57 | 0.00 | 1208161 | 44.0 | 16.4 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.1 | 9.0 | 13.5 |



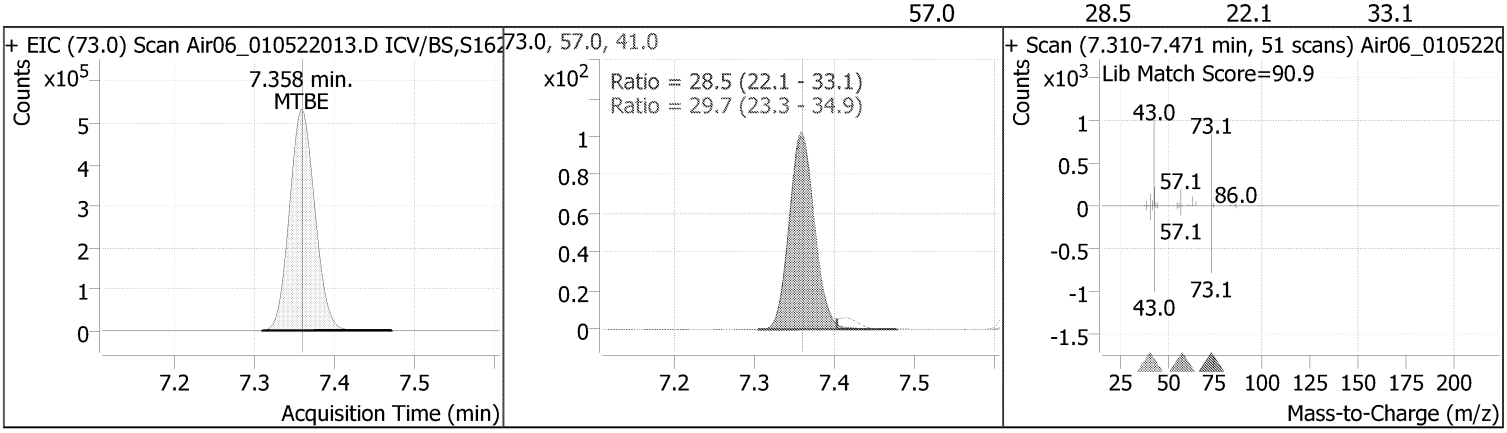

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 8.7467 | 7.12 | 0.00 | 721009 | 96.0 | 58.0 | 45.6 | 68.4 |
| | | | | | 98.0 | 37.3 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.2 | 24.9 | 37.3 |
| | | | | | 60.0 | 25.8 | 20.9 | 31.3 |



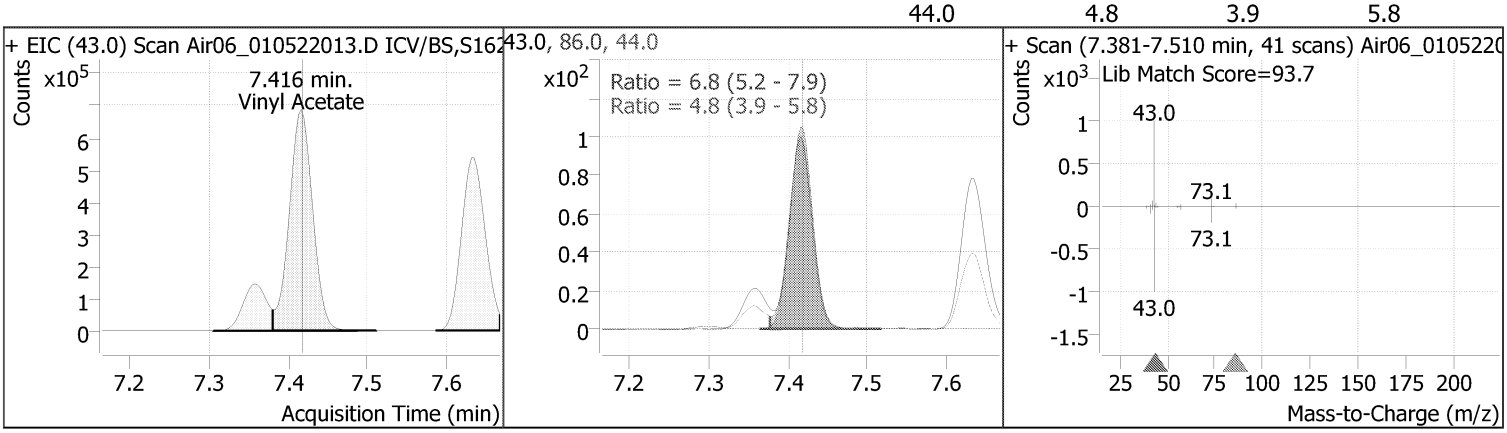

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 8.7910 | 7.30 | 0.00 | 889779 | 65.0 | 30.7 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.9 | 9.7 | 14.6 |
| | | | | | 98.0 | 5.0 | 4.0 | 5.9 |



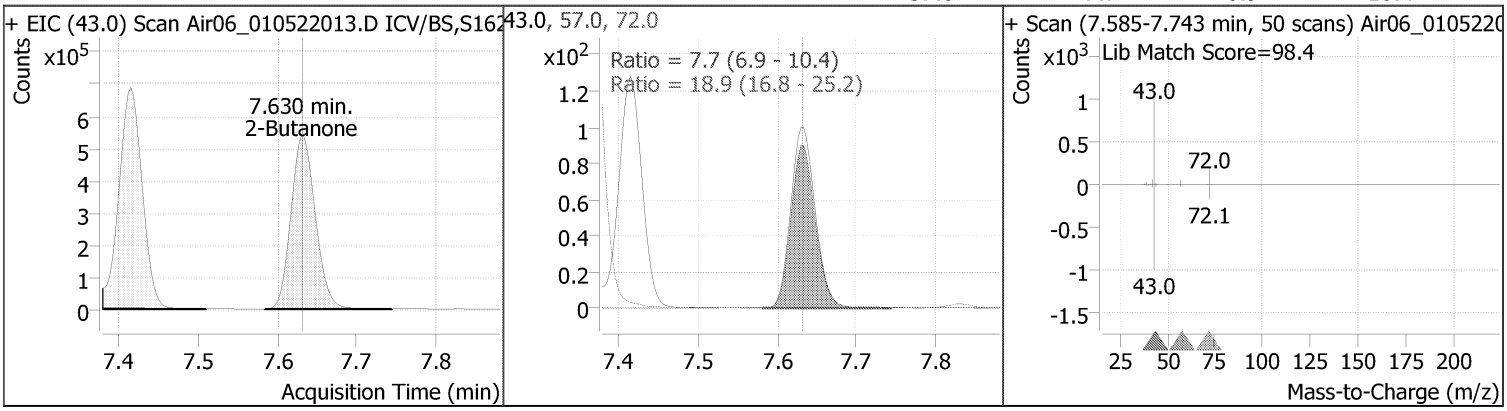
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 8.7744 | 7.36 | 0.00 | 1176854 | 41.0 | 29.7 | 23.3 | 34.9 |
| | | | | | 57.0 | 28.5 | 22.1 | 33.1 |



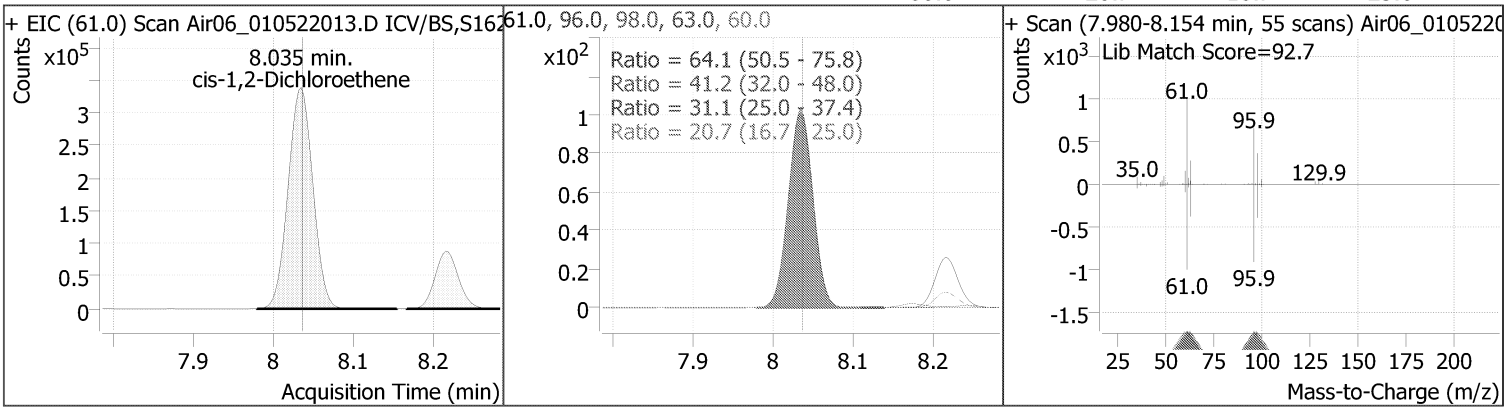

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 8.2478 | 7.42 | 0.00 | 1400815 | 86.0 | 6.8 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.8 | 3.9 | 5.8 |



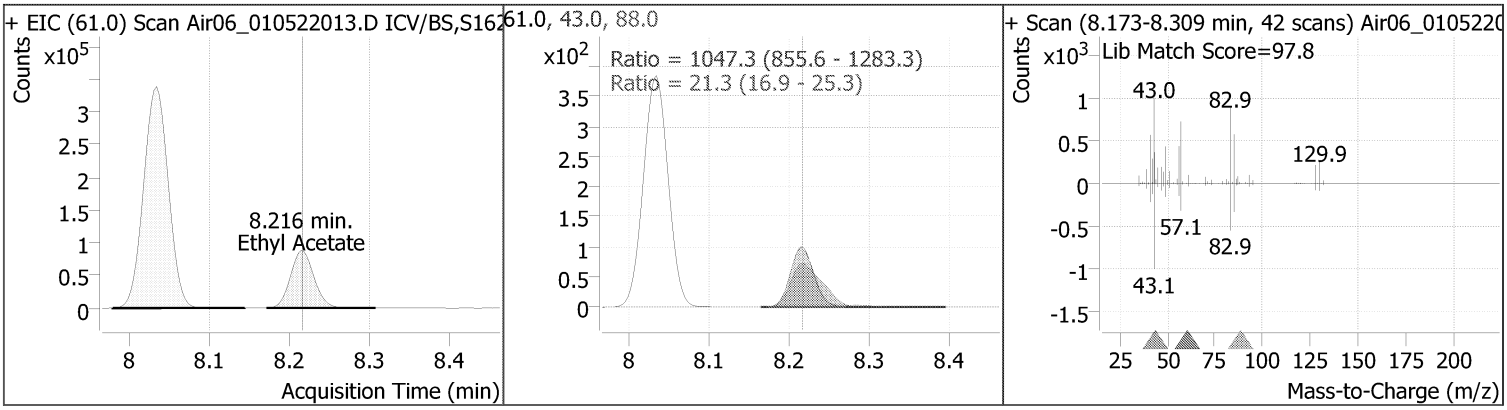

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 8.7689 | 7.63 | 0.00 | 1147326 | 72.0 | 18.9 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.7 | 6.9 | 10.4 |



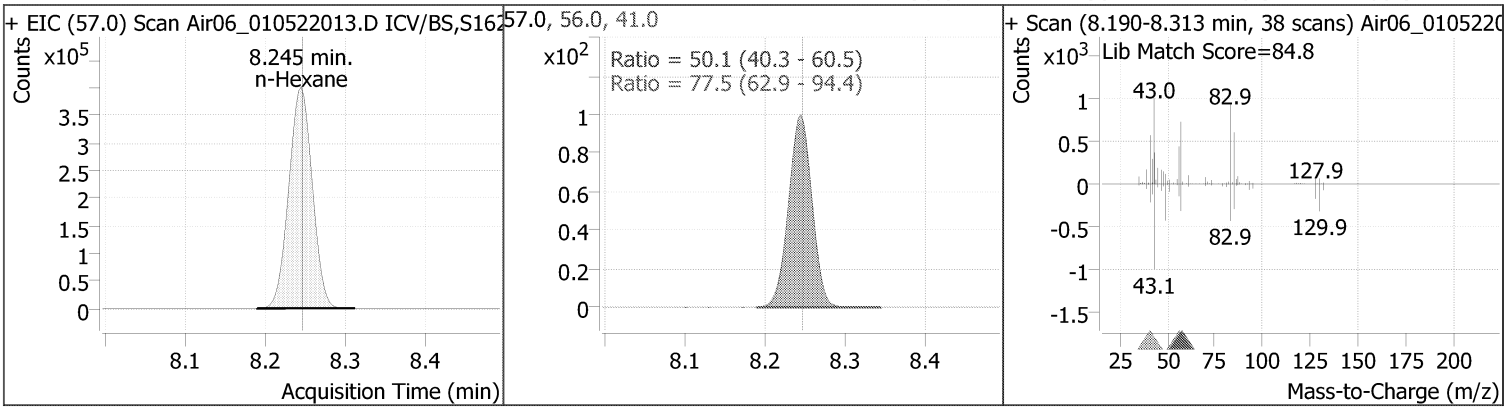
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 8.7710 | 8.03 | 0.00 | 731282 | 96.0 | 64.1 | 50.5 | 75.8 |
| | | | | | 98.0 | 41.2 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.1 | 25.0 | 37.4 |
| | | | | | 60.0 | 20.7 | 16.7 | 25.0 |



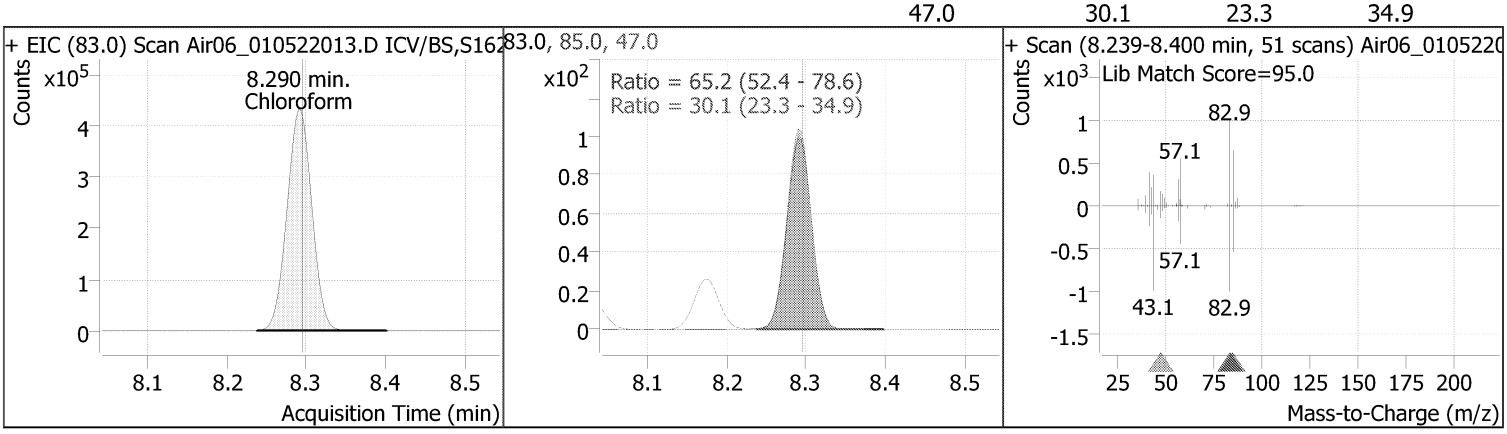

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 8.7104 | 8.22 | 0.00 | 178929 | 43.0 | 1047.3 | 855.6 | 1283.3 |
| | | | | | 88.0 | 21.3 | 16.9 | 25.3 |



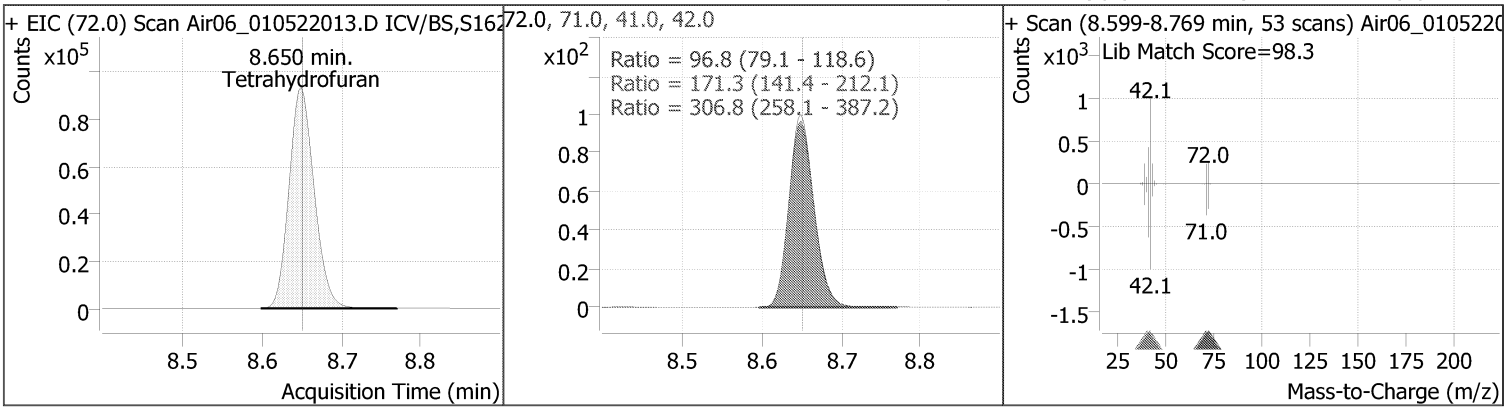

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 8.6985 | 8.25 | 0.00 | 820626 | 41.0 | 77.5 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.1 | 40.3 | 60.5 |



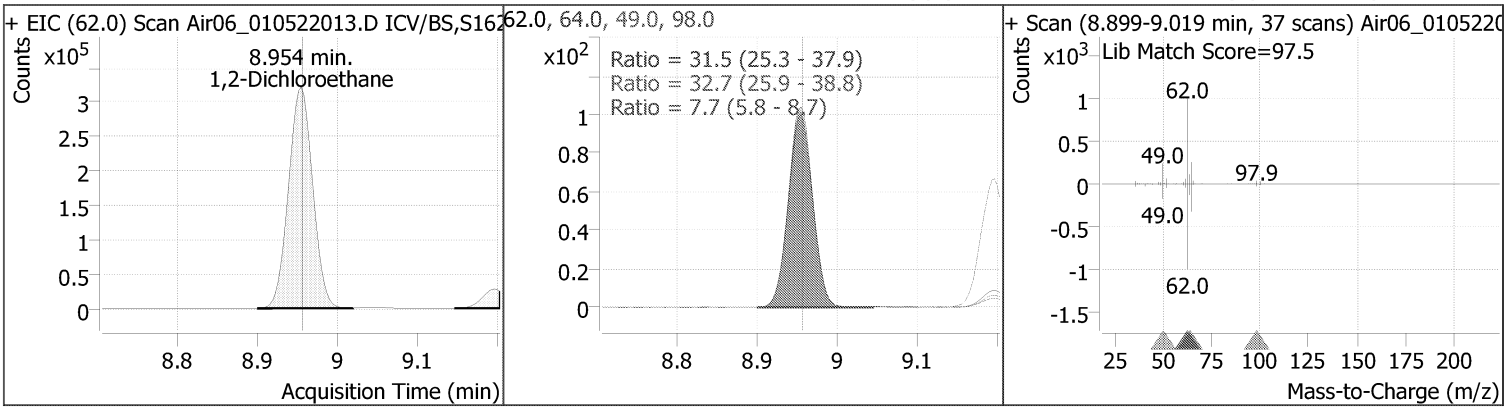
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 8.7781 | 8.29 | 0.00 | 933824 | 85.0 | 65.2 | 52.4 | 78.6 |
| | | | | | 47.0 | 30.1 | 23.3 | 34.9 |



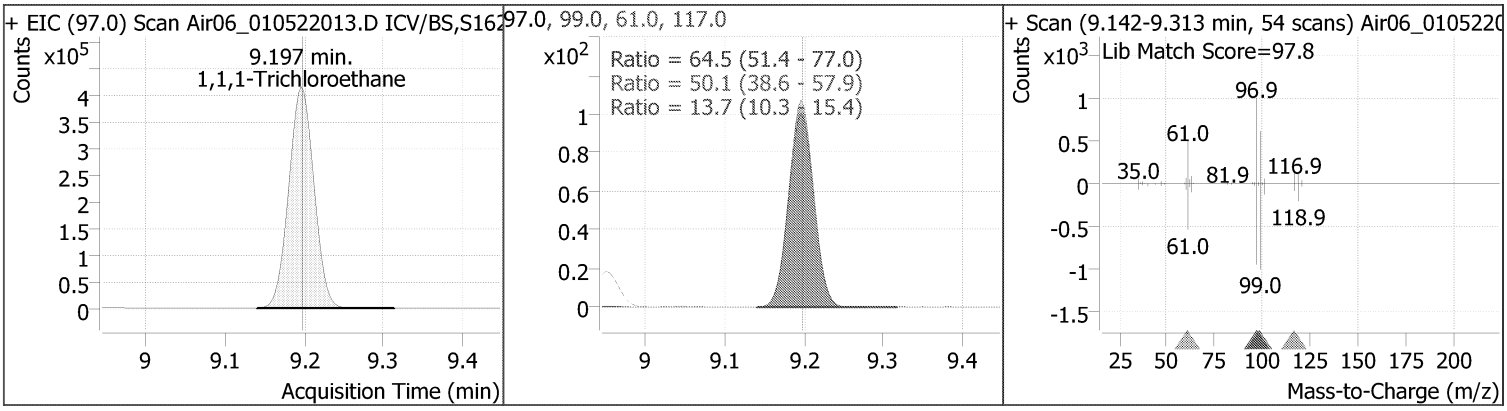

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 8.7764 | 8.65 | 0.00 | 205944 | 42.0 | 306.8 | 258.1 | 387.2 |
| | | | | | 41.0 | 171.3 | 141.4 | 212.1 |
| | | | | | 71.0 | 96.8 | 79.1 | 118.6 |



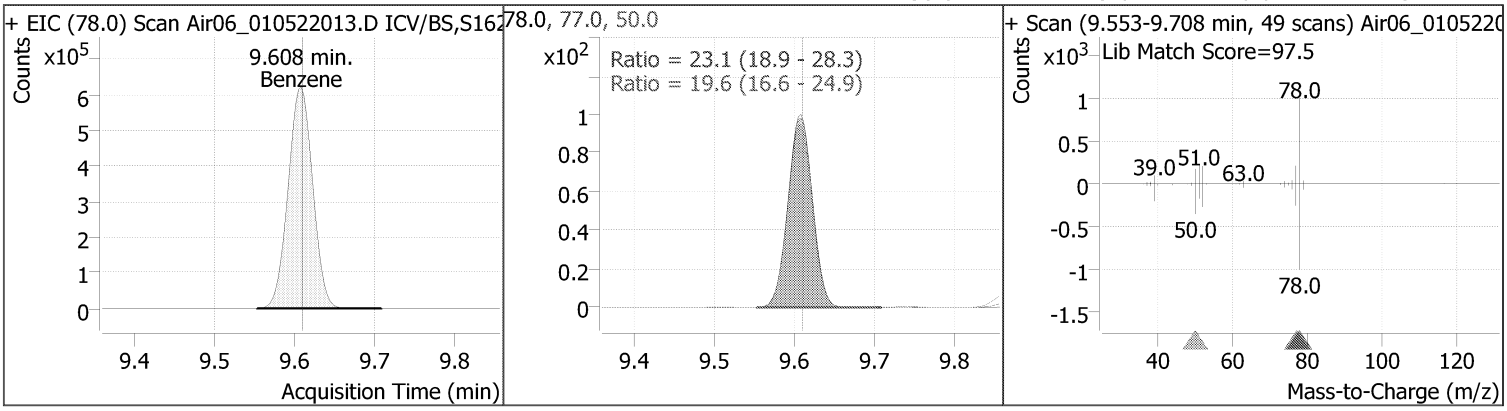

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 8.7112 | 8.95 | 0.00 | 678570 | 49.0 | 32.7 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.5 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.7 | 5.8 | 8.7 |



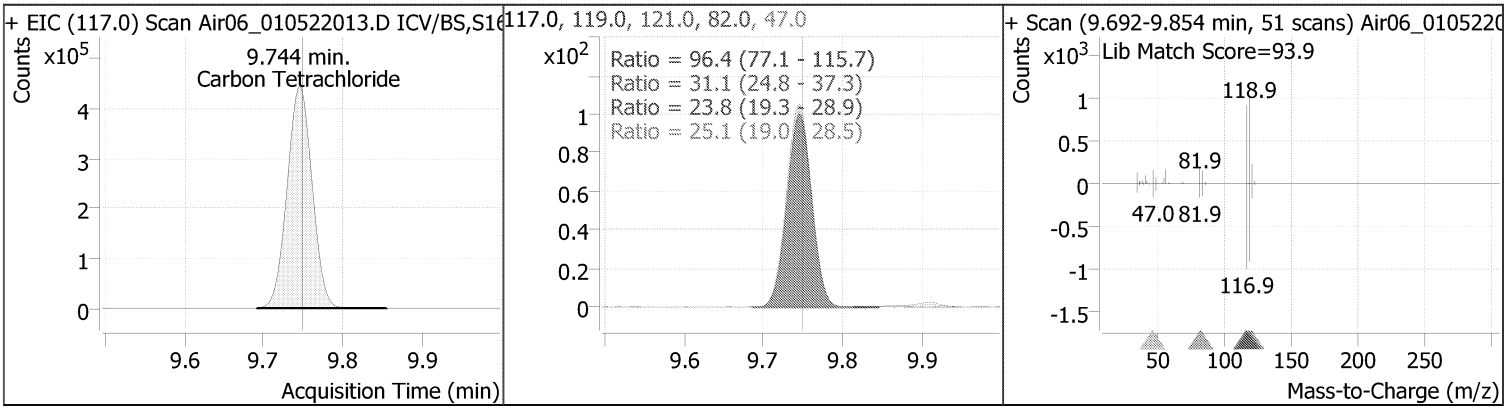
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 8.8723 | 9.20 | 0.00 | 912963 | 99.0 | 64.5 | 51.4 | 77.0 |
| | | | | | 61.0 | 50.1 | 38.6 | 57.9 |
| | | | | | 117.0 | 13.7 | 10.3 | 15.4 |



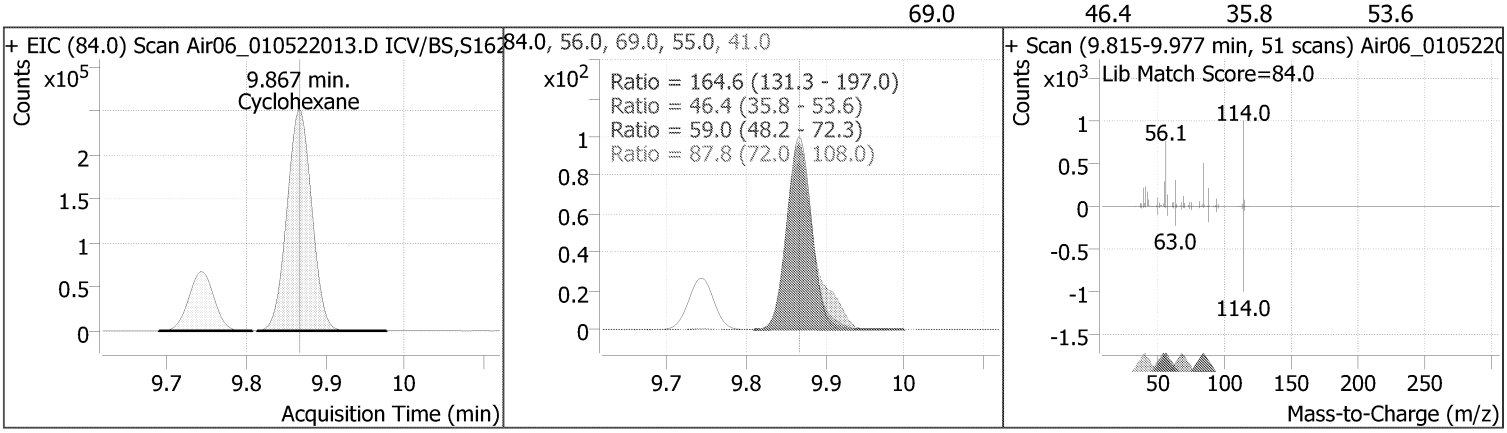

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 8.6841 | 9.61 | 0.00 | 1331774 | 77.0 | 23.1 | 18.9 | 28.3 |
| | | | | | 50.0 | 19.6 | 16.6 | 24.9 |



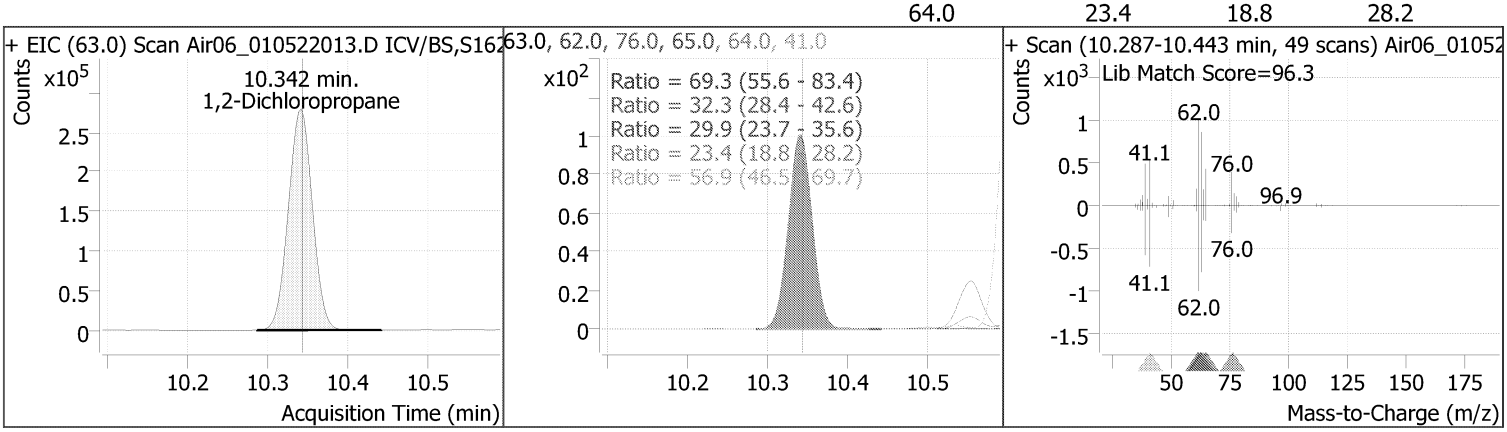

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 8.8415 | 9.74 | 0.00 | 970611 | 119.0 | 96.4 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.1 | 24.8 | 37.3 |
| | | | | | 82.0 | 23.8 | 19.3 | 28.9 |
| | | | | | 47.0 | 25.1 | 19.0 | 28.5 |



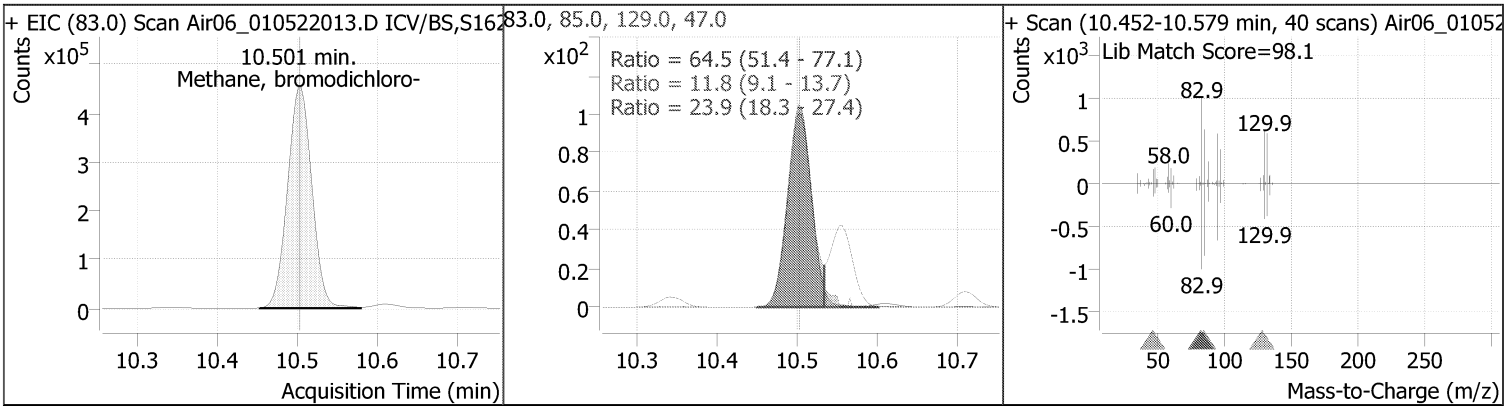
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 8.5298 | 9.87 | 0.00 | 546520 | 56.0 | 164.6 | 131.3 | 197.0 |
| | | | | | 41.0 | 87.8 | 72.0 | 108.0 |
| | | | | | 55.0 | 59.0 | 48.2 | 72.3 |
| | | | | | 69.0 | 46.4 | 35.8 | 53.6 |



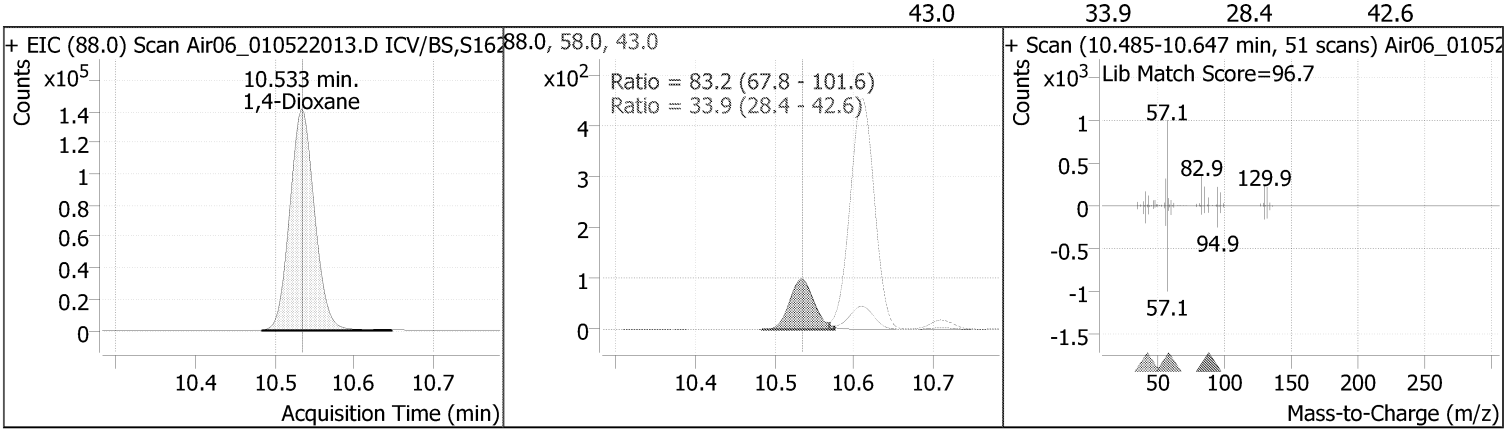

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 8.8380 | 10.34 | 0.00 | 587874 | 62.0 | 69.3 | 55.6 | 83.4 |
| | | | | | 41.0 | 56.9 | 46.5 | 69.7 |
| | | | | | 76.0 | 32.3 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.9 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.4 | 18.8 | 28.2 |



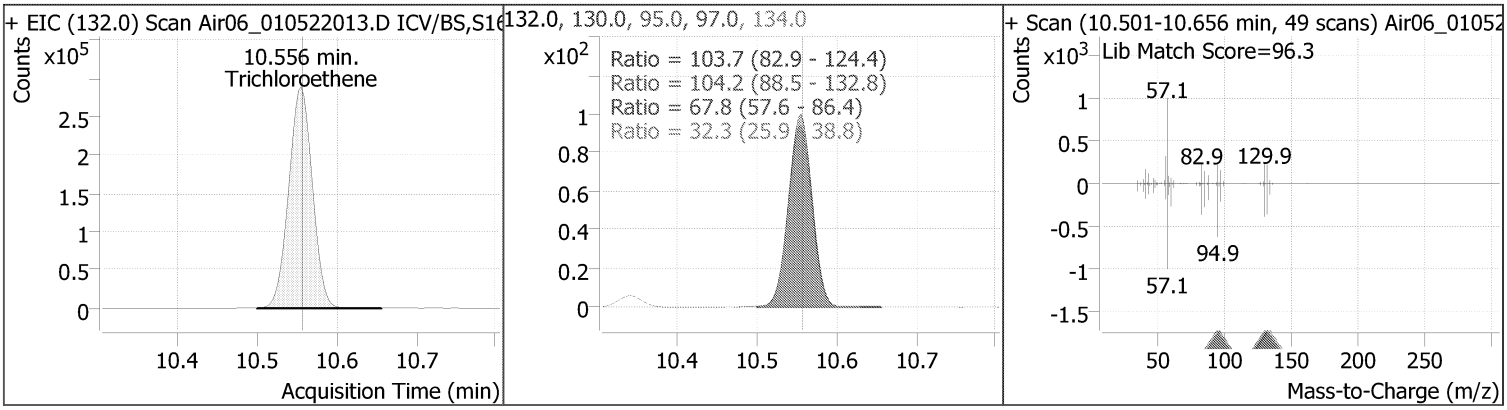

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 8.9090 | 10.50 | 0.00 | 966960 | 85.0 | 64.5 | 51.4 | 77.1 |
| | | | | | 47.0 | 23.9 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.8 | 9.1 | 13.7 |



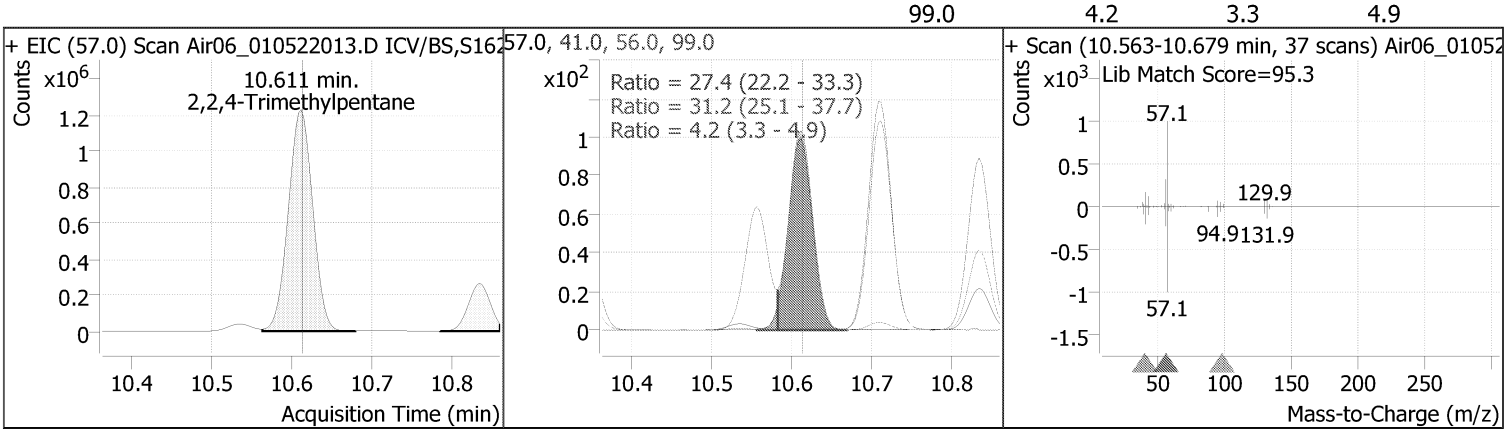
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 8.8210 | 10.53 | 0.00 | 306190 | 58.0 | 83.2 | 67.8 | 101.6 |
| | | | | | 43.0 | 33.9 | 28.4 | 42.6 |



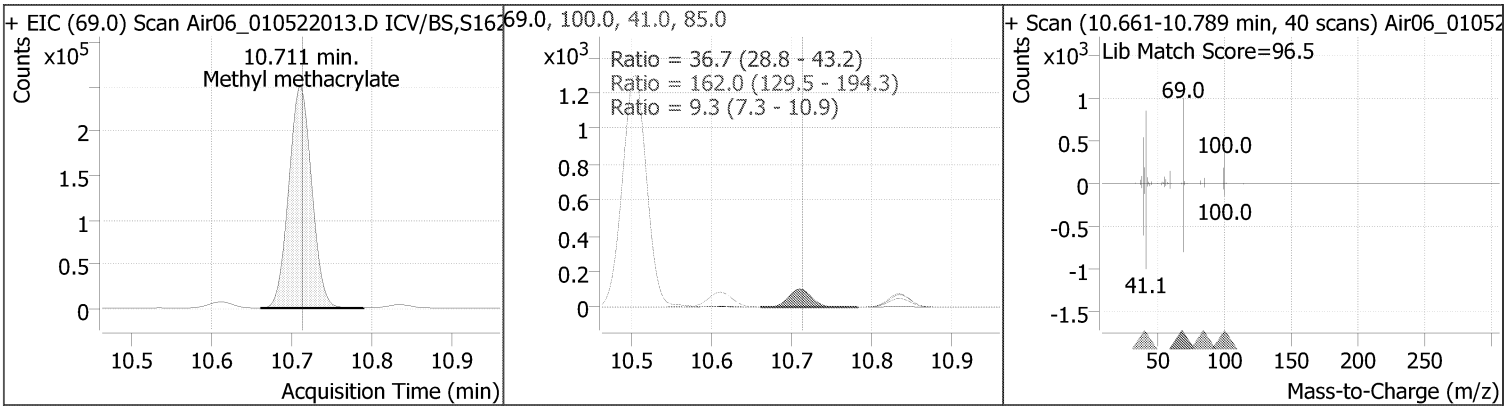

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 8.8170 | 10.56 | 0.00 | 596616 | 95.0 | 104.2 | 88.5 | 132.8 |
| | | | | | 130.0 | 103.7 | 82.9 | 124.4 |
| | | | | | 97.0 | 67.8 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.3 | 25.9 | 38.8 |



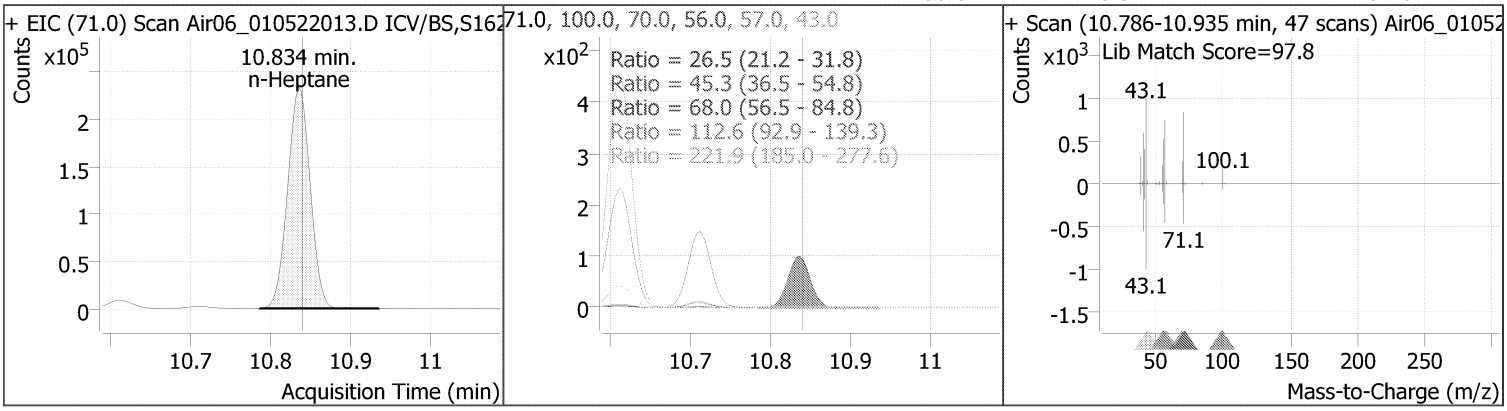

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 8.6513 | 10.61 | 0.00 | 2618946 | 56.0 | 31.2 | 25.1 | 37.7 |
| | | | | | 41.0 | 27.4 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.2 | 3.3 | 4.9 |



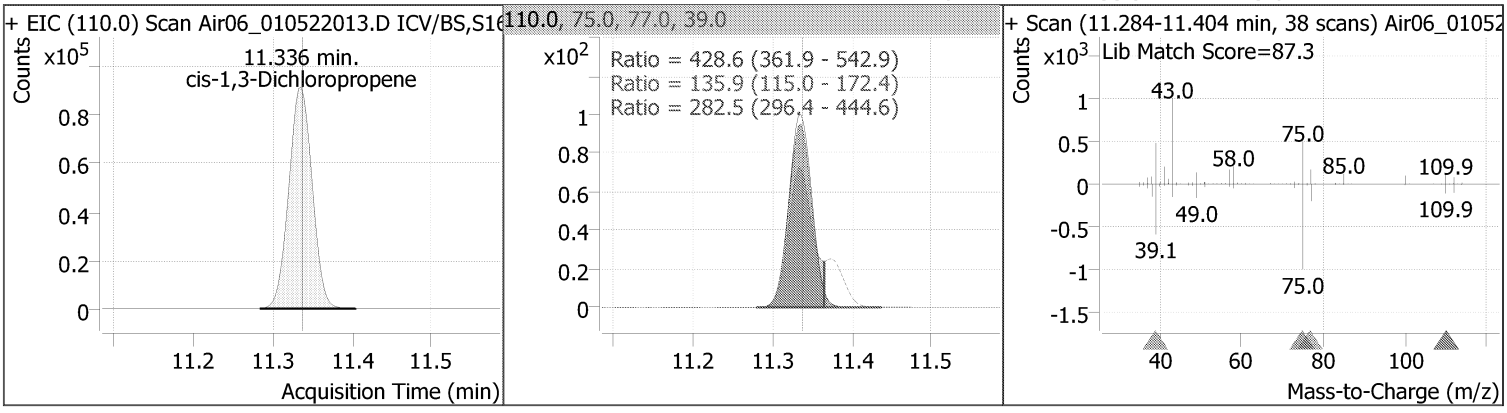
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 8.8920 | 10.71 | 0.00 | 502085 | 41.0 | 162.0 | 129.5 | 194.3 |
| | | | | | 100.0 | 36.7 | 28.8 | 43.2 |
| | | | | | 85.0 | 9.3 | 7.3 | 10.9 |



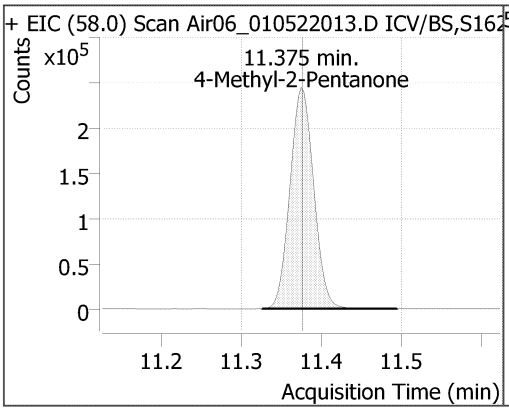

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 8.7635 | 10.83 | 0.00 | 458280 | 43.0 | 221.9 | 185.0 | 277.6 |
| | | | | | 57.0 | 112.6 | 92.9 | 139.3 |
| | | | | | 56.0 | 68.0 | 56.5 | 84.8 |
| | | | | | 70.0 | 45.3 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.5 | 21.2 | 31.8 |

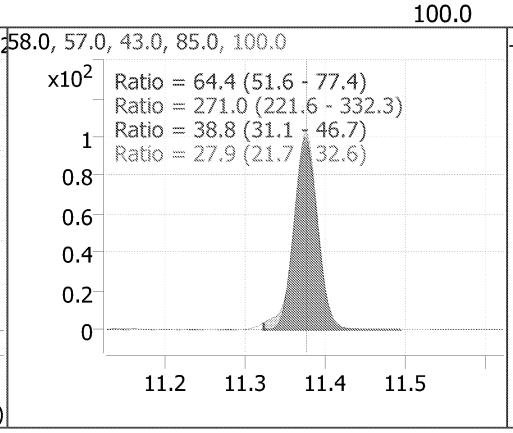


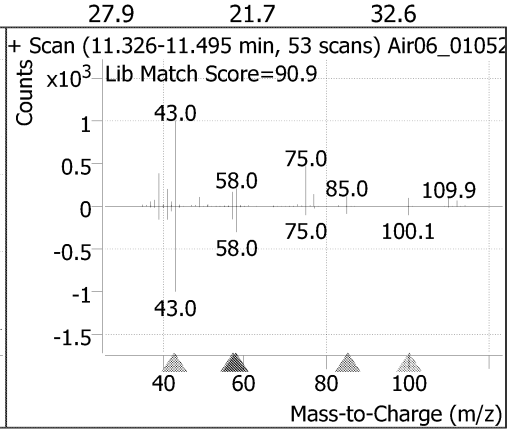

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 8.8668 | 11.34 | 0.00 | 187231 | 75.0 | 428.6 | 361.9 | 542.9 |
| | | | | | 39.0 | 282.5 | 296.4 | 444.6 |
| | | | | | 77.0 | 135.9 | 115.0 | 172.4 |



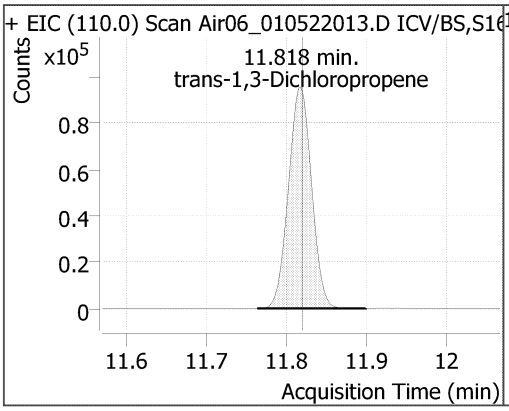
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 8.7089 | 11.37 | 0.00 | 508081 | 43.0 | 271.0 | 221.6 | 332.3 |
| | | | | | 57.0 | 64.4 | 51.6 | 77.4 |
| | | | | | 85.0 | 38.8 | 31.1 | 46.7 |
| | | | | | 100.0 | 27.9 | 21.7 | 32.6 |

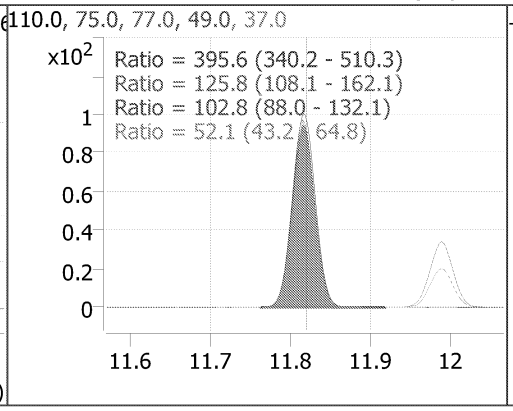


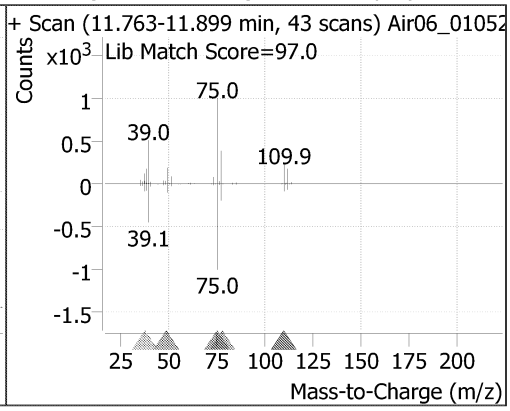



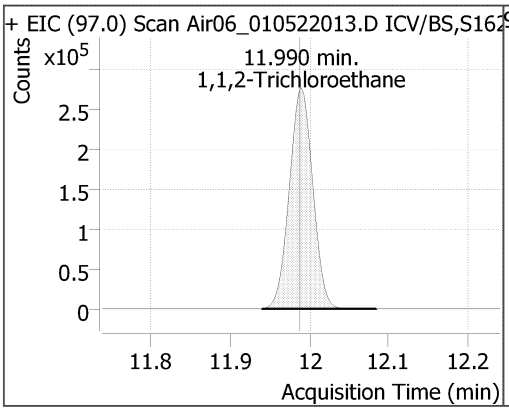

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 8.9253 | 11.82 | 0.00 | 193230 | 75.0 | 395.6 | 340.2 | 510.3 |
| | | | | | 77.0 | 125.8 | 108.1 | 162.1 |
| | | | | | 49.0 | 102.8 | 88.0 | 132.1 |
| | | | | | 37.0 | 52.1 | 43.2 | 64.8 |

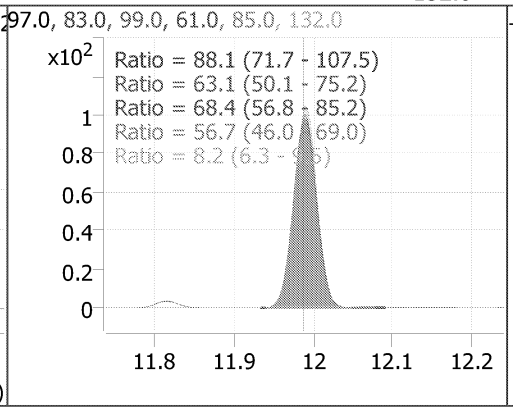


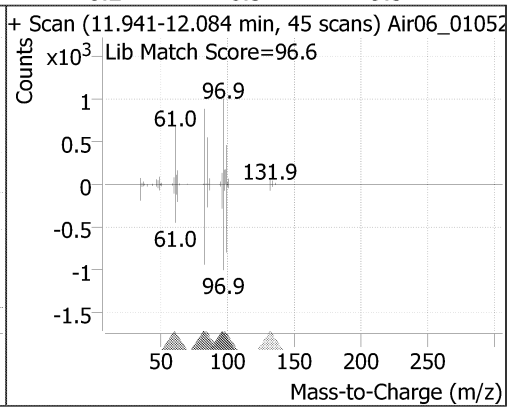



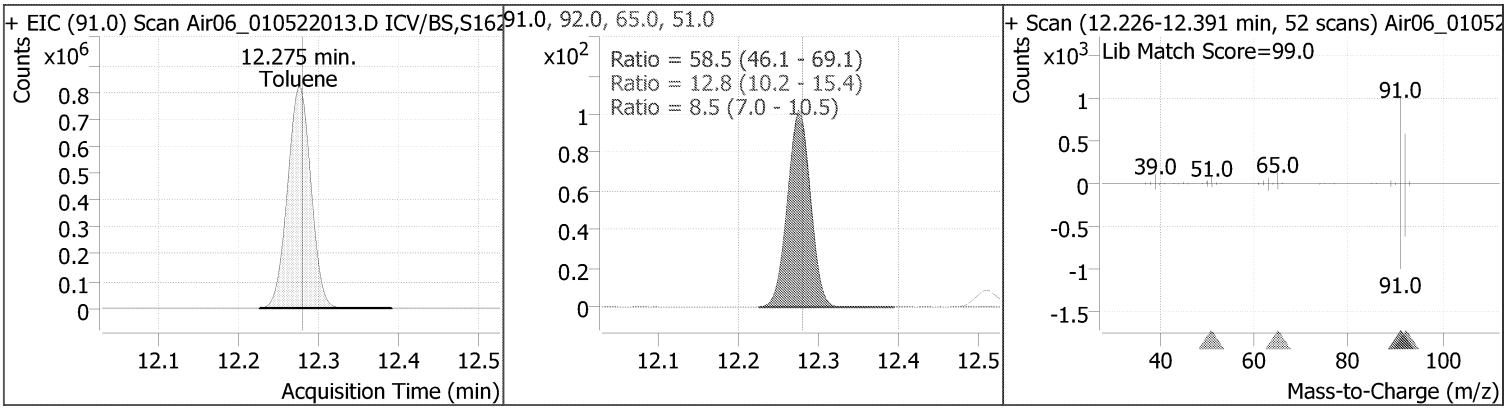

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 8.9068 | 11.99 | 0.00 | 564209 | 83.0 | 88.1 | 71.7 | 107.5 |
| | | | | | 61.0 | 68.4 | 56.8 | 85.2 |
| | | | | | 99.0 | 63.1 | 50.1 | 75.2 |
| | | | | | 85.0 | 56.7 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.2 | 6.3 | 9.5 |



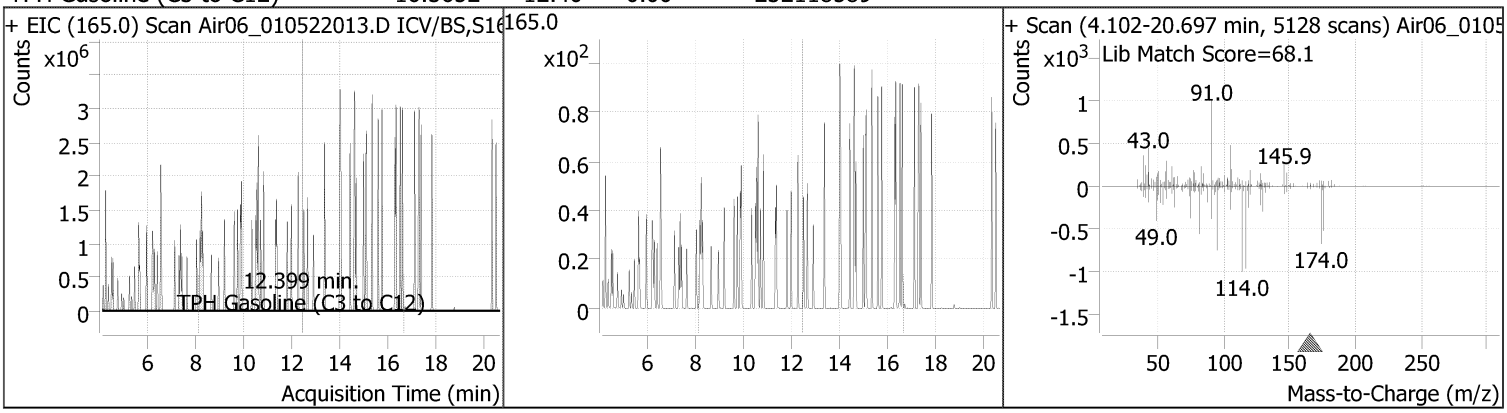



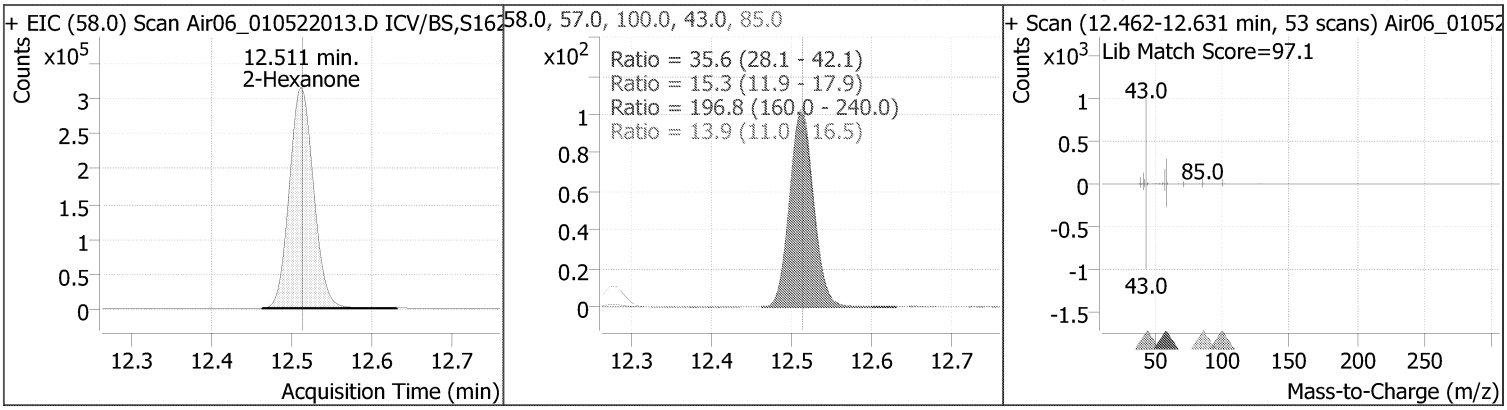
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 8.6998 | 12.27 | 0.00 | 1674561 | 92.0 | 58.5 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.8 | 10.2 | 15.4 |
| | | | | | 51.0 | 8.5 | 7.0 | 10.5 |



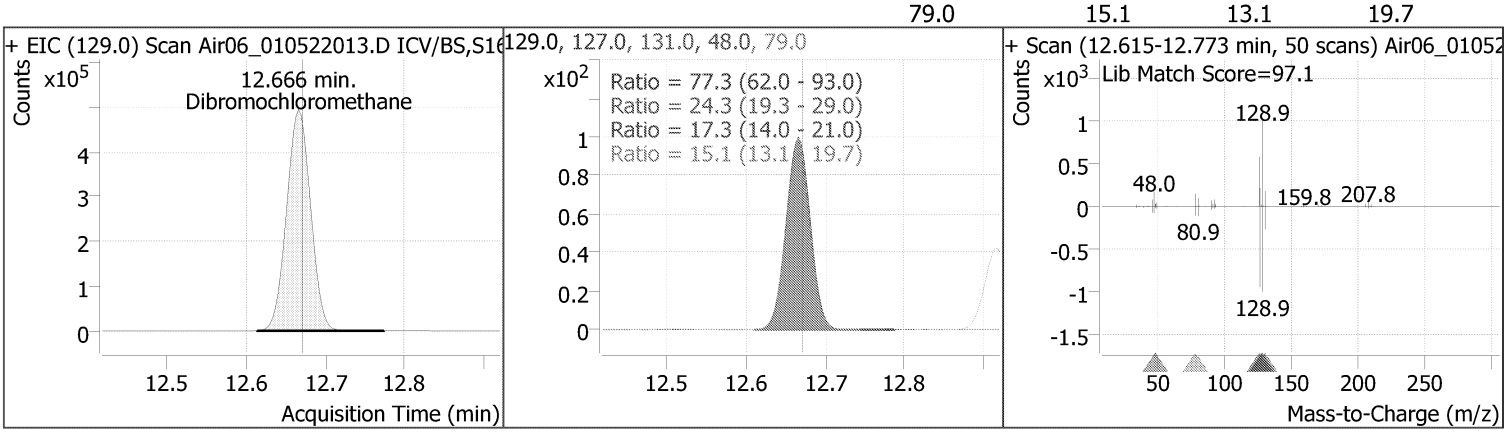

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 16.3652 | 12.40 | 0.00 | 232118589 | | | | |



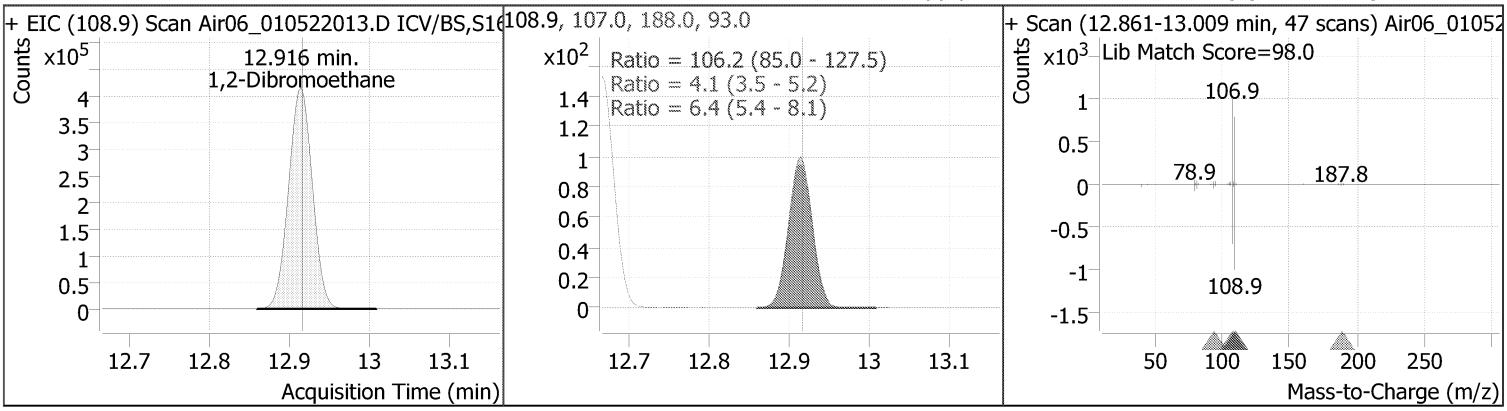

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 8.9754 | 12.51 | 0.00 | 672543 | 43.0 | 196.8 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.6 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.3 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.9 | 11.0 | 16.5 |



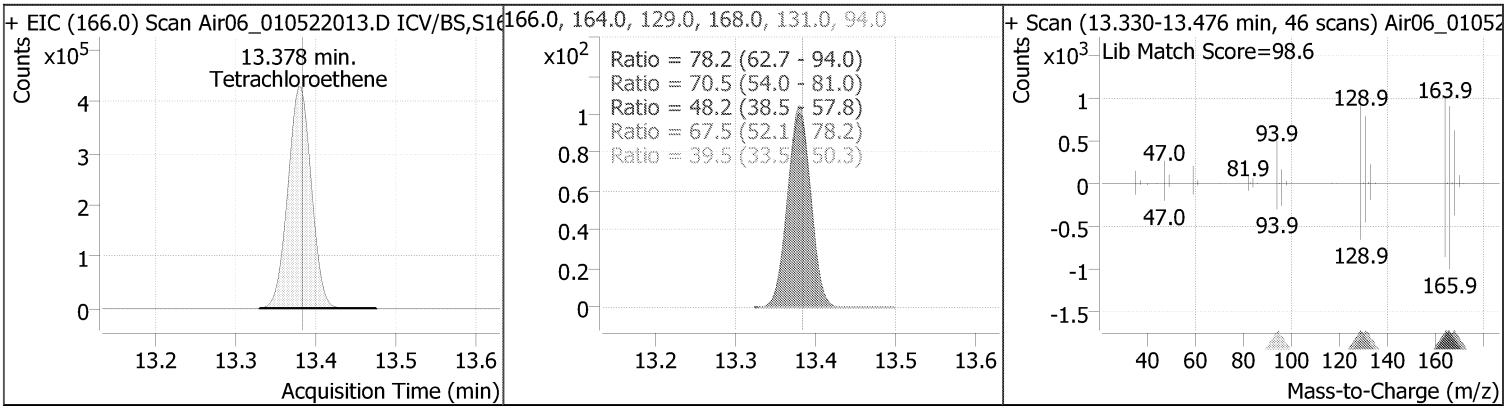
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 8.9922 | 12.67 | 0.00 | 1034076 | 127.0 | 77.3 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.3 | 19.3 | 29.0 |
| | | | | | 48.0 | 17.3 | 14.0 | 21.0 |
| | | | | | 79.0 | 15.1 | 13.1 | 19.7 |



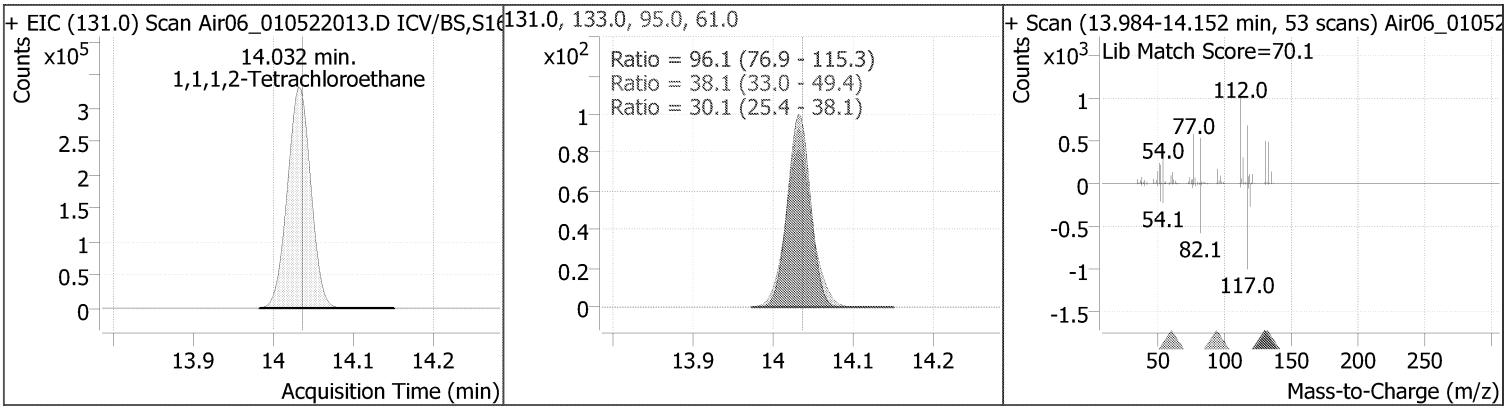

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 8.8624 | 12.92 | 0.00 | 863679 | 107.0 | 106.2 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.4 | 5.4 | 8.1 |
| | | | | | 188.0 | 4.1 | 3.5 | 5.2 |



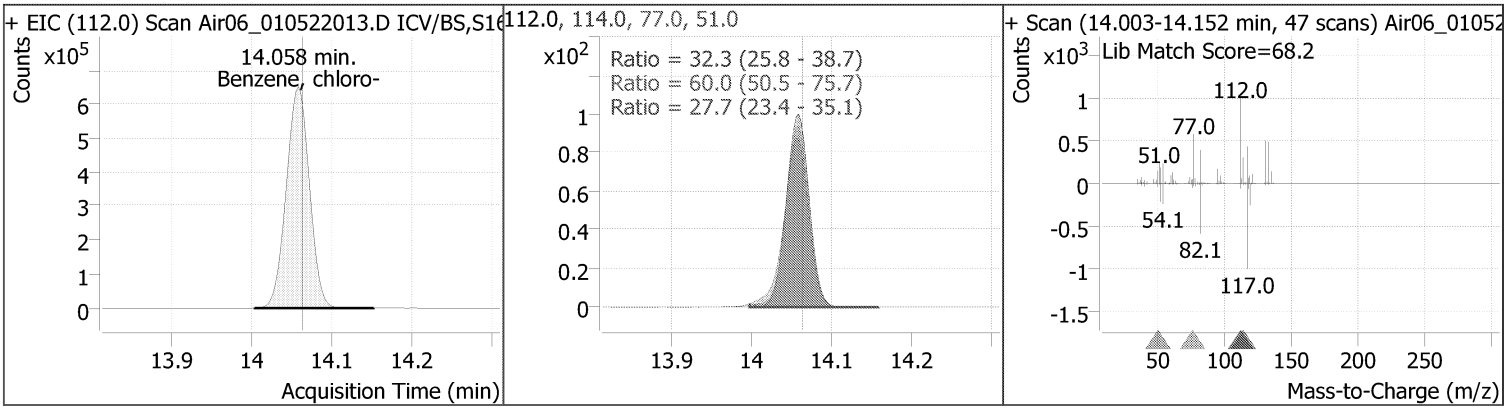

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 8.8086 | 13.38 | 0.00 | 876574 | 164.0 | 78.2 | 62.7 | 94.0 |
| | | | | | 129.0 | 70.5 | 54.0 | 81.0 |
| | | | | | 131.0 | 67.5 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.2 | 38.5 | 57.8 |
| | | | | | 94.0 | 39.5 | 33.5 | 50.3 |



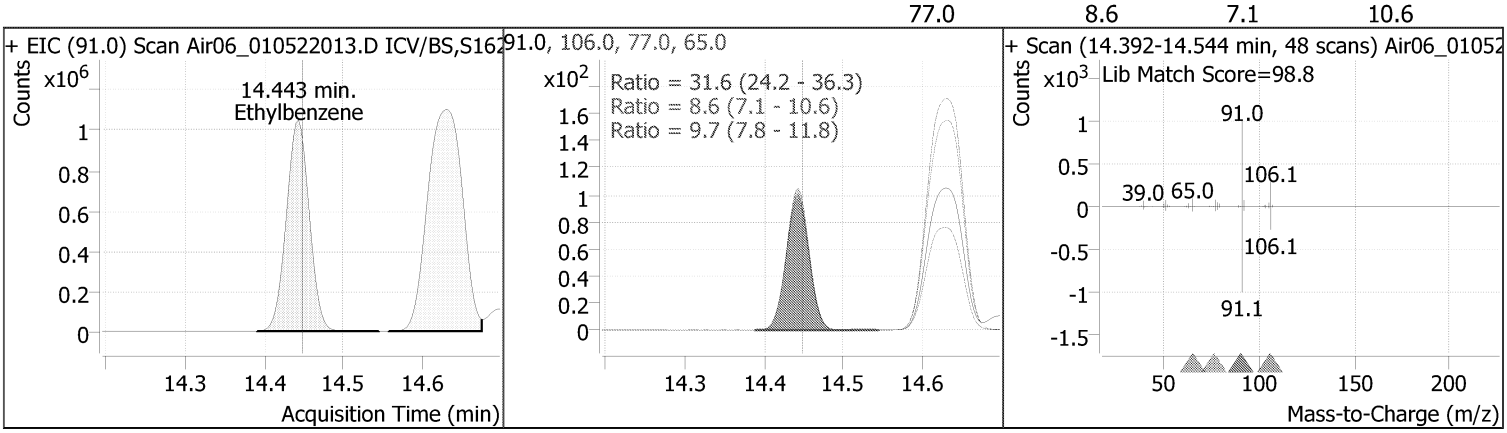
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 8.9253 | 14.03 | 0.00 | 678186 | 133.0 | 96.1 | 76.9 | 115.3 |
| | | | | | 95.0 | 38.1 | 33.0 | 49.4 |
| | | | | | 61.0 | 30.1 | 25.4 | 38.1 |



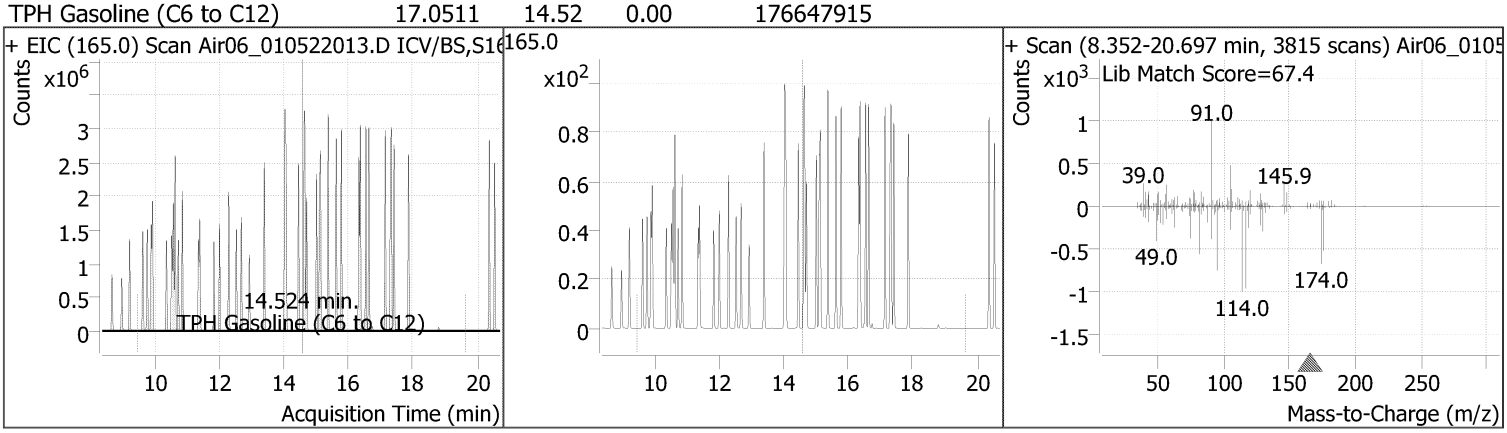

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 8.7229 | 14.06 | 0.00 | 1315302 | 77.0 | 60.0 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.3 | 25.8 | 38.7 |
| | | | | | 51.0 | 27.7 | 23.4 | 35.1 |



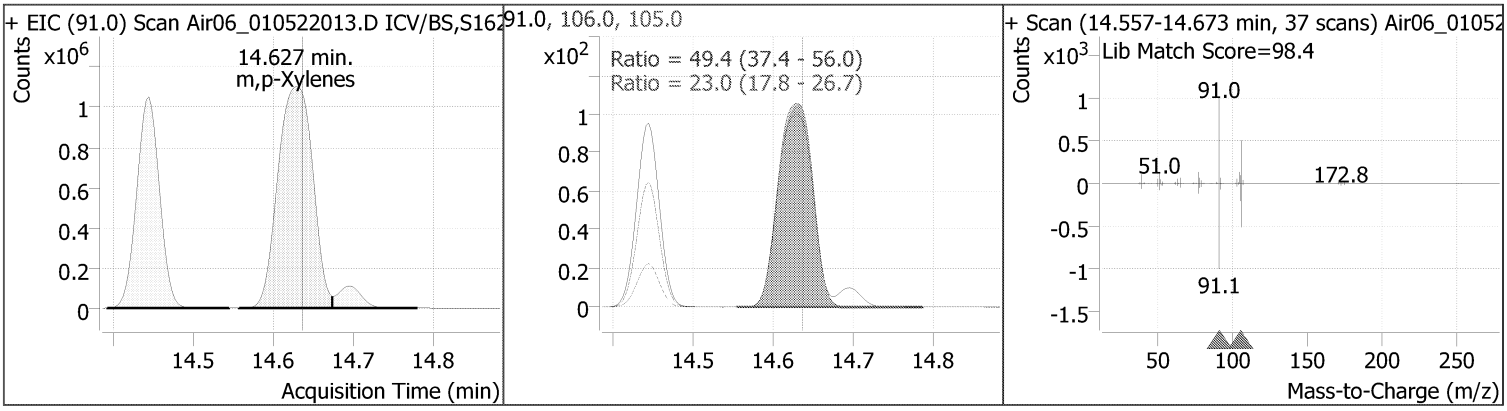

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 8.7551 | 14.44 | 0.00 | 2097324 | 106.0 | 31.6 | 24.2 | 36.3 |
| | | | | | 65.0 | 9.7 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.6 | 7.1 | 10.6 |



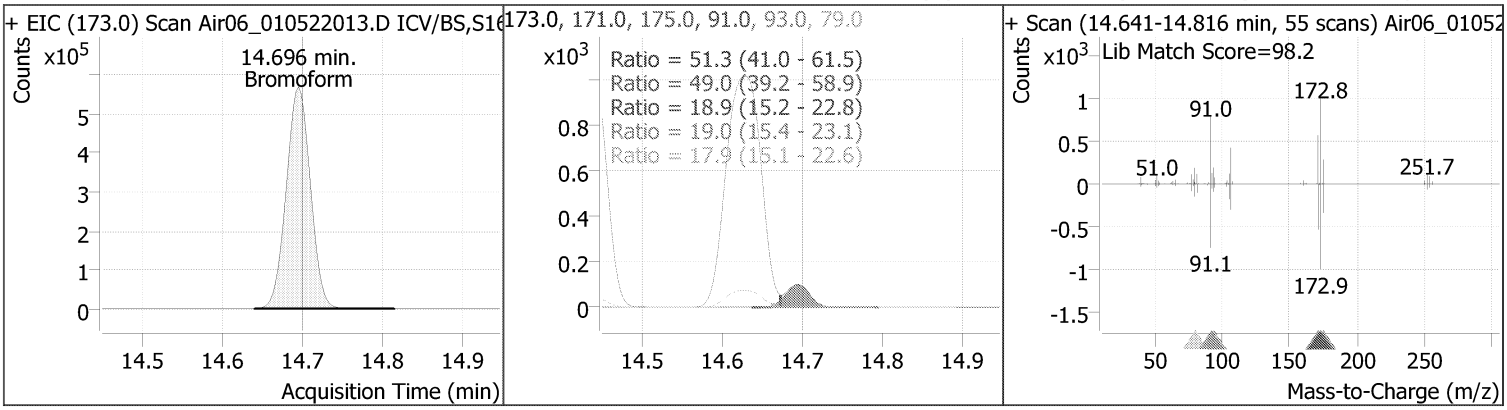
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 17.0511 | 14.52 | 0.00 | 176647915 | | | | |



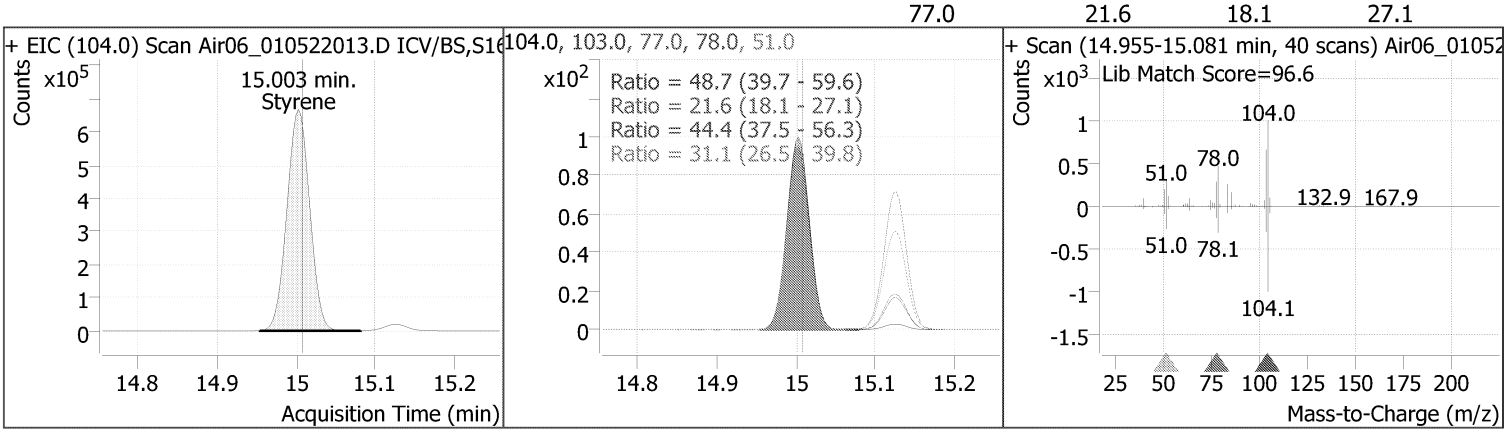

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 17.4266 | 14.63 | -0.01 | 3357424 | 106.0 | 49.4 | 37.4 | 56.0 |
| | | | | | 105.0 | 23.0 | 17.8 | 26.7 |



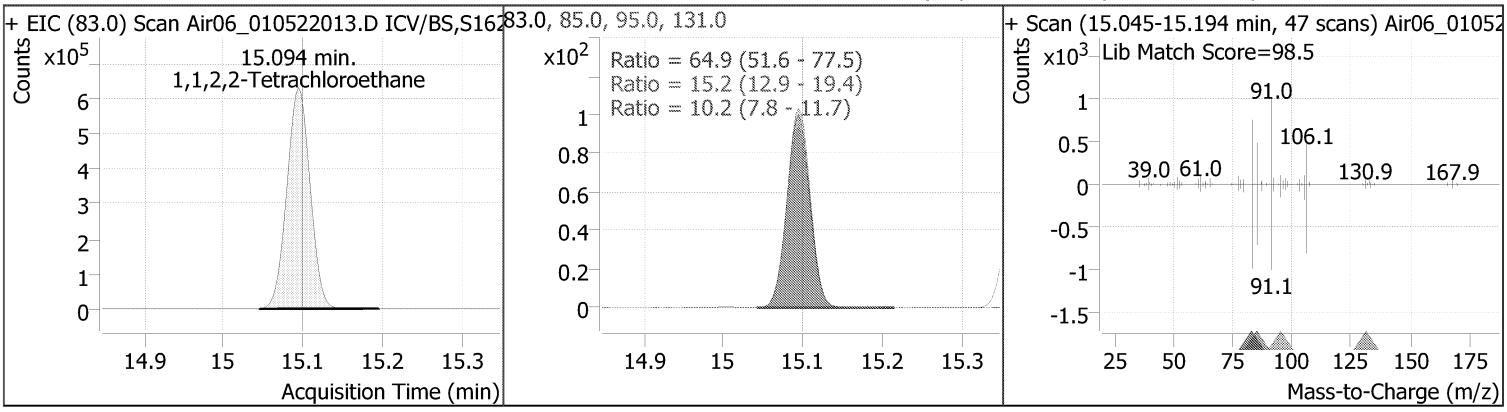

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 9.0544 | 14.70 | 0.00 | 1194794 | 171.0 | 51.3 | 41.0 | 61.5 |
| | | | | | 175.0 | 49.0 | 39.2 | 58.9 |
| | | | | | 93.0 | 19.0 | 15.4 | 23.1 |
| | | | | | 91.0 | 18.9 | 15.2 | 22.8 |
| | | | | | 79.0 | 17.9 | 15.1 | 22.6 |



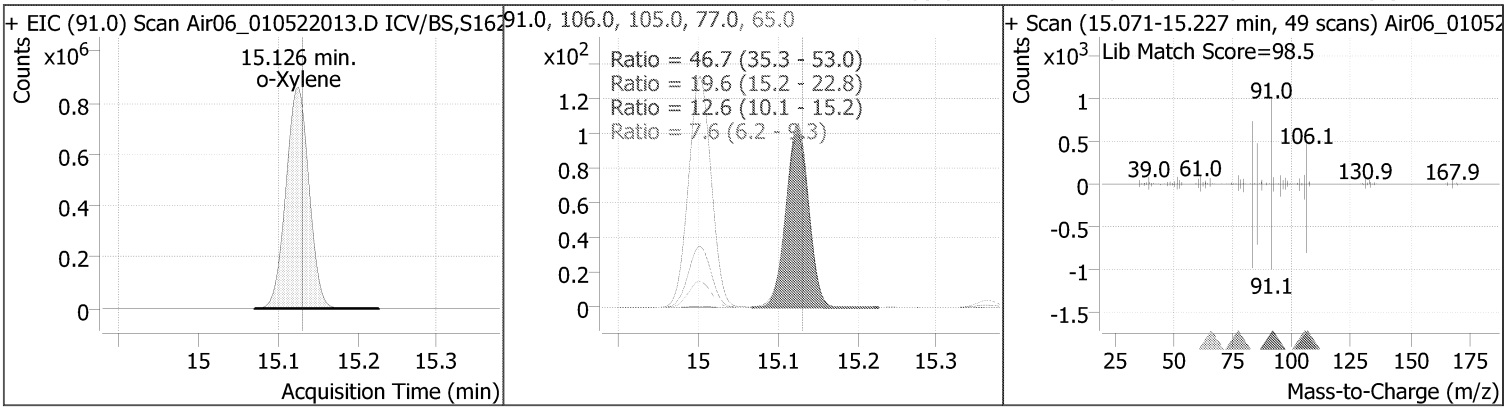
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 8.7147 | 15.00 | 0.00 | 1330536 | 103.0 | 48.7 | 39.7 | 59.6 |
| | | | | | 78.0 | 44.4 | 37.5 | 56.3 |
| | | | | | 51.0 | 31.1 | 26.5 | 39.8 |
| | | | | | 77.0 | 21.6 | 18.1 | 27.1 |



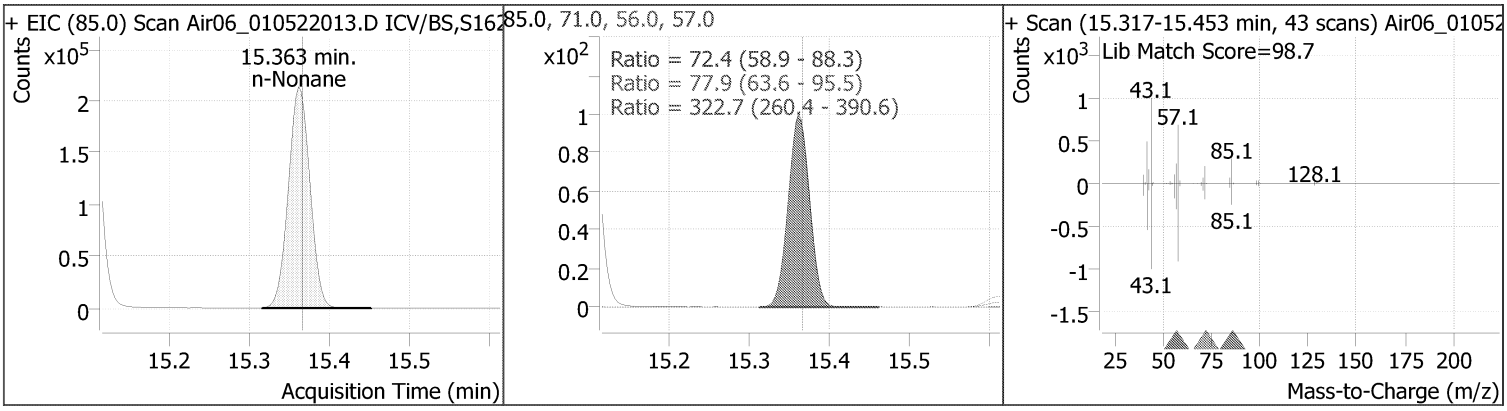

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 8.8031 | 15.09 | 0.00 | 1281613 | 85.0 | 64.9 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.2 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.2 | 7.8 | 11.7 |



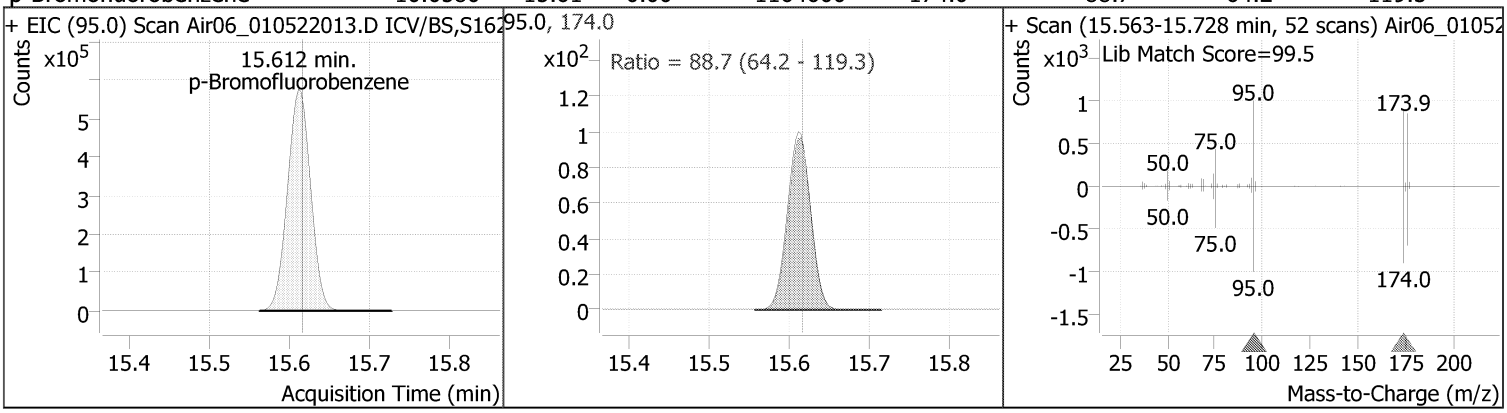

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 8.7265 | 15.13 | 0.00 | 1728520 | 106.0 | 46.7 | 35.3 | 53.0 |
| | | | | | 105.0 | 19.6 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.6 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.6 | 6.2 | 9.3 |



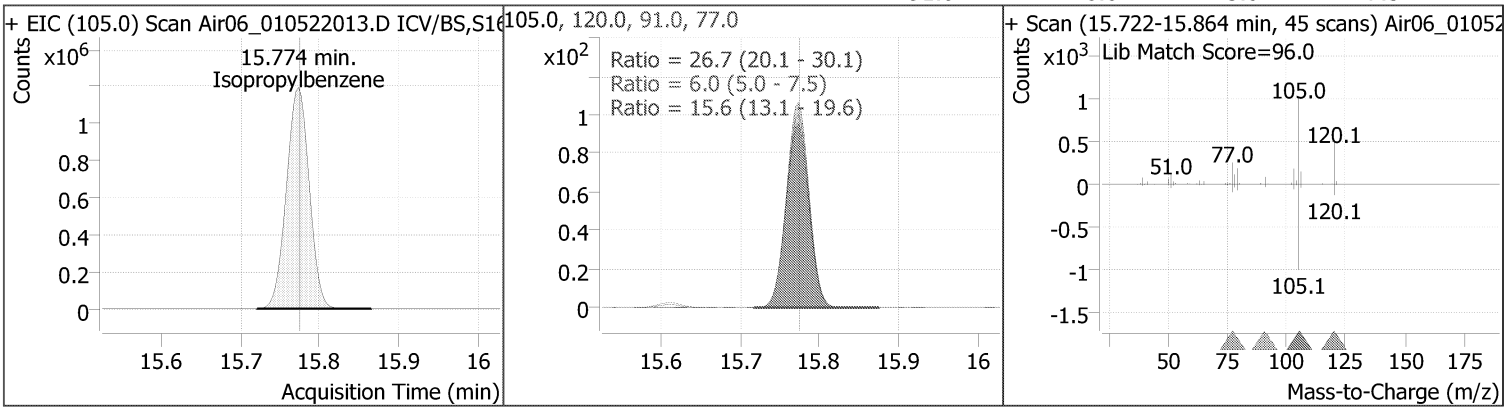
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 8.7656 | 15.36 | 0.00 | 401126 | 57.0 | 322.7 | 260.4 | 390.6 |
| | | | | | 56.0 | 77.9 | 63.6 | 95.5 |
| | | | | | 71.0 | 72.4 | 58.9 | 88.3 |



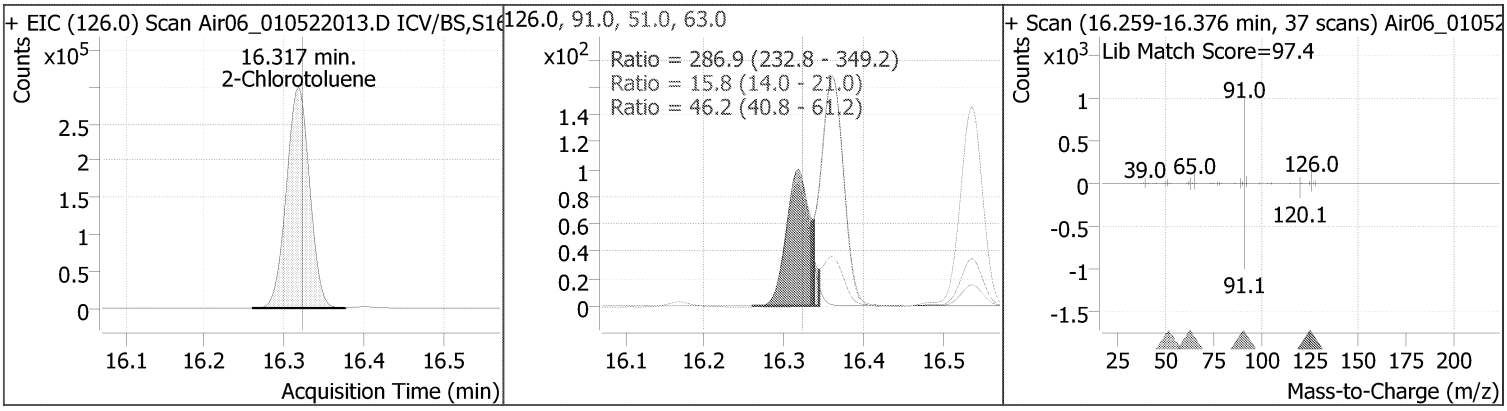

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.0580 | 15.61 | 0.00 | 1164600 | 174.0 | 88.7 | 64.2 | 119.3 |



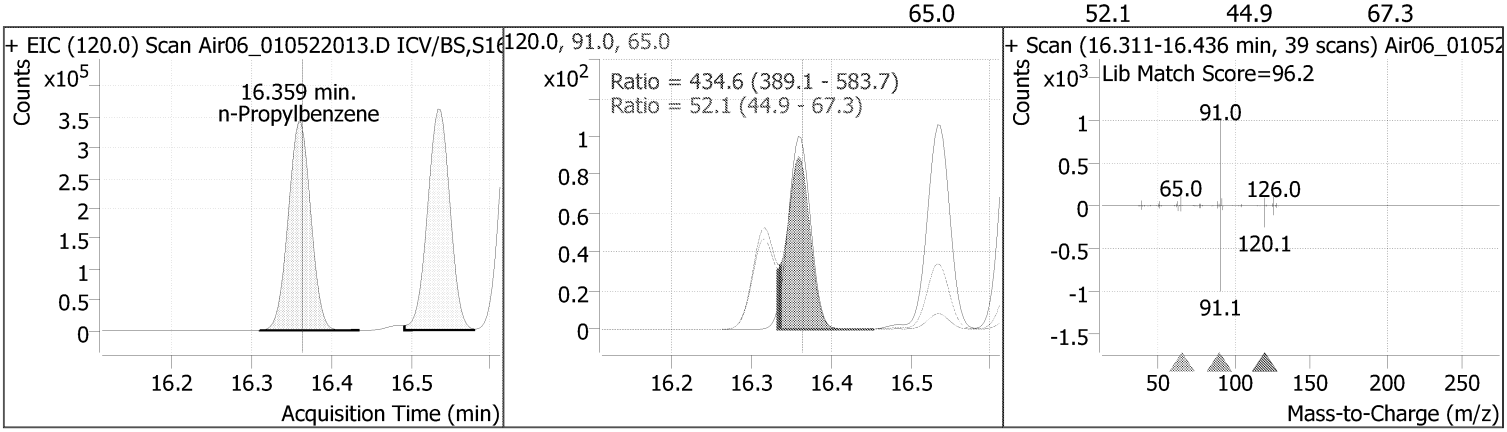

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 8.7624 | 15.77 | 0.00 | 2379235 | 120.0 | 26.7 | 20.1 | 30.1 |
| | | | | | 77.0 | 15.6 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.0 | 5.0 | 7.5 |



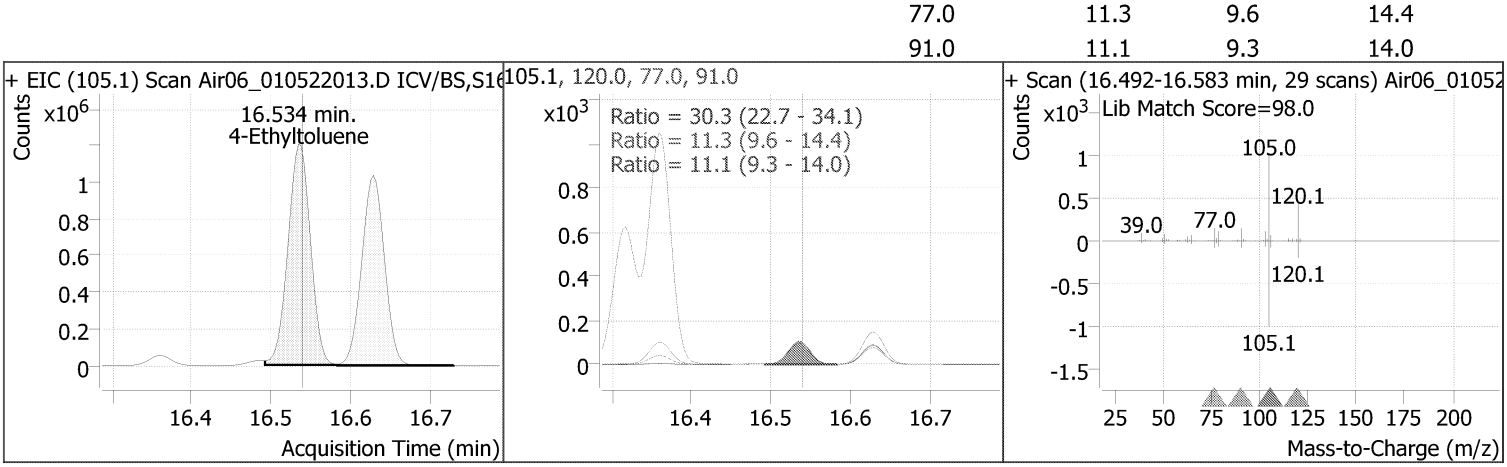
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 8.7841 | 16.32 | 0.00 | 607485 | 91.0 | 286.9 | 232.8 | 349.2 |
| | | | | | 63.0 | 46.2 | 40.8 | 61.2 |
| | | | | | 51.0 | 15.8 | 14.0 | 21.0 |



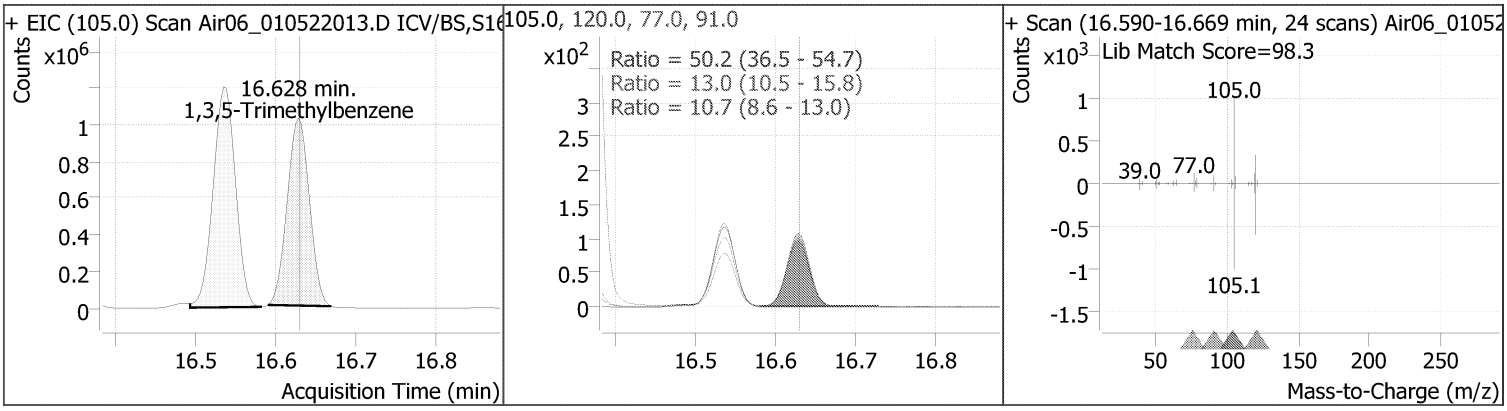

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 8.8725 | 16.36 | 0.00 | 673117 | 91.0 | 434.6 | 389.1 | 583.7 |
| | | | | | 65.0 | 52.1 | 44.9 | 67.3 |



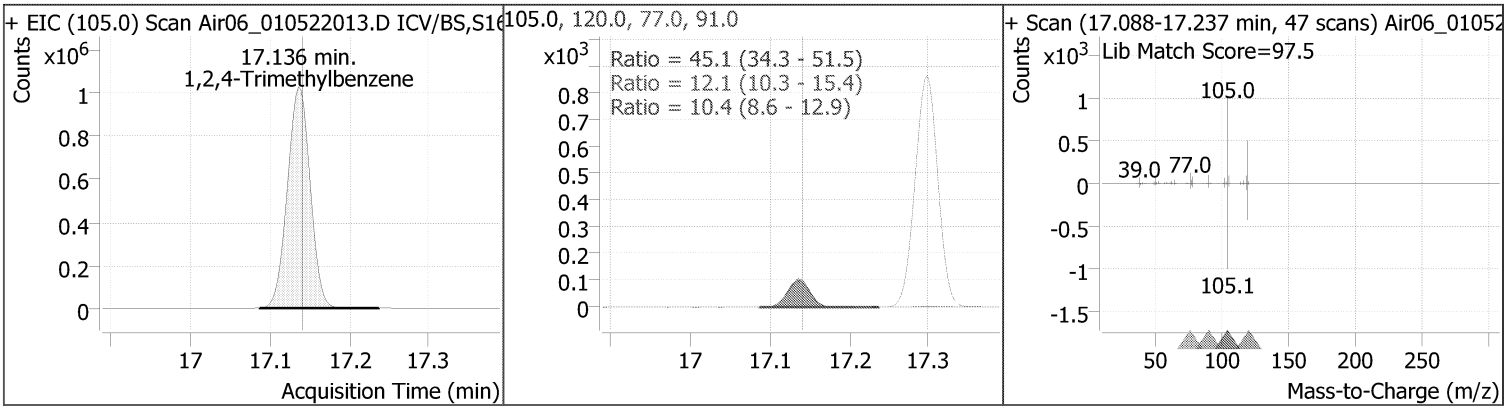

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 8.7726 | 16.53 | 0.00 | 2357212 | 120.0 | 30.3 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.3 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.1 | 9.3 | 14.0 |



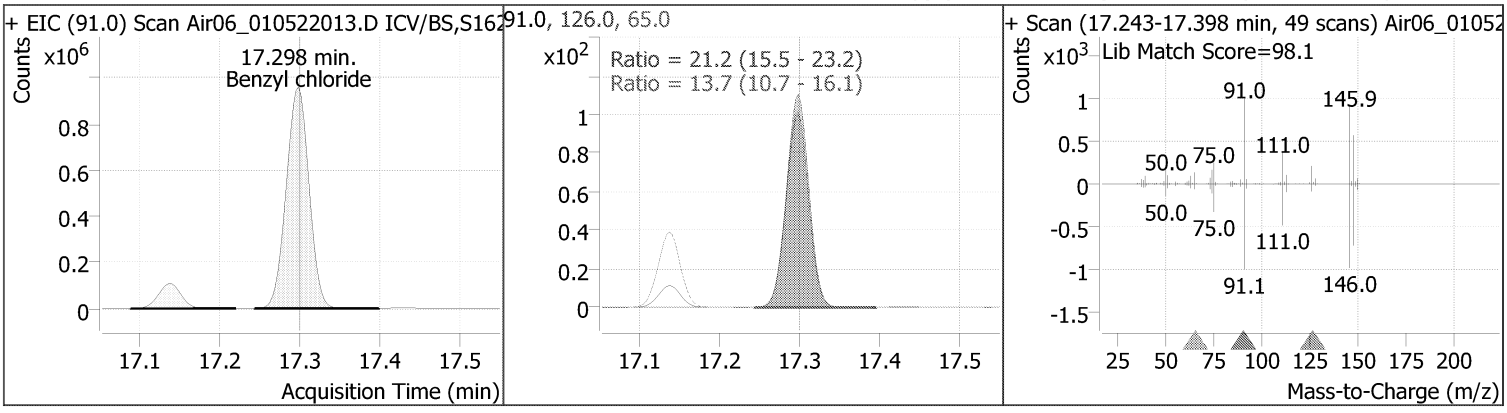
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 8.5010 | 16.63 | 0.00 | 1977385 | 120.0 | 50.2 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.0 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.7 | 8.6 | 13.0 |



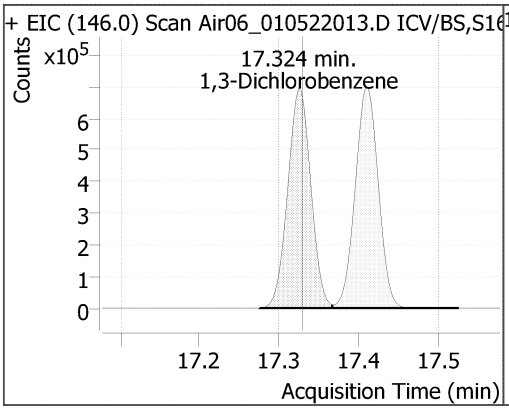

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 8.8640 | 17.14 | 0.00 | 2047836 | 120.0 | 45.1 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.1 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.4 | 8.6 | 12.9 |

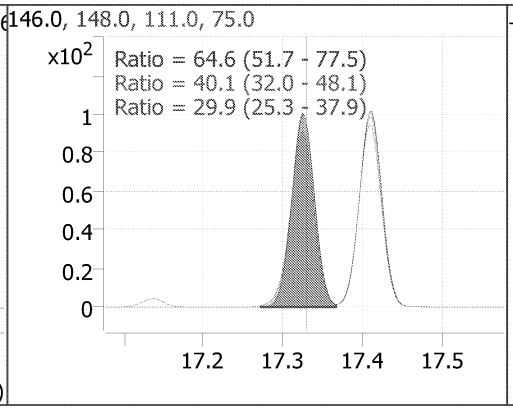


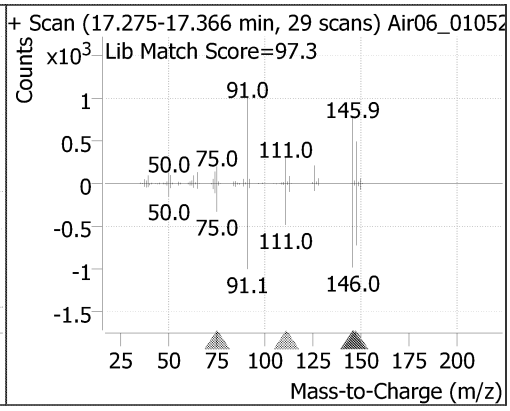

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 9.3768 | 17.30 | 0.00 | 1904818 | 126.0 | 21.2 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.7 | 10.7 | 16.1 |



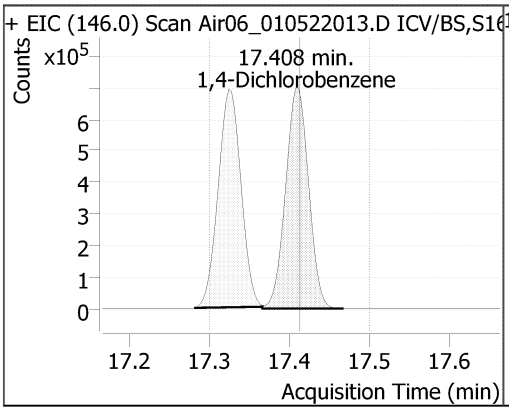
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 8.8228 | 17.32 | 0.00 | 1398121 | 148.0 | 64.6 | 51.7 | 77.5 |
| | | | | | 111.0 | 40.1 | 32.0 | 48.1 |
| | | | | | 75.0 | 29.9 | 25.3 | 37.9 |

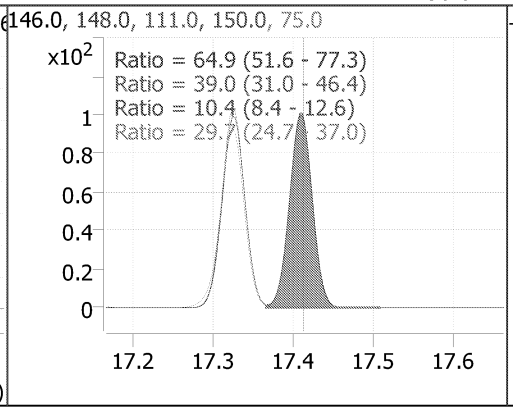


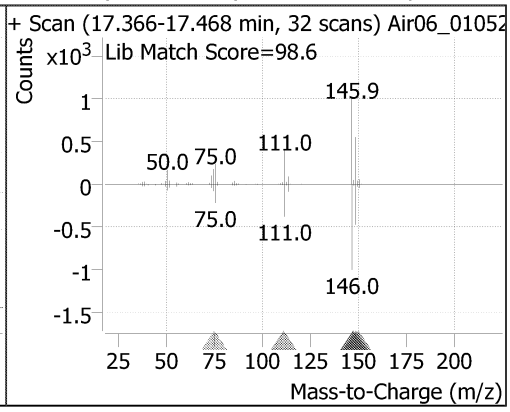



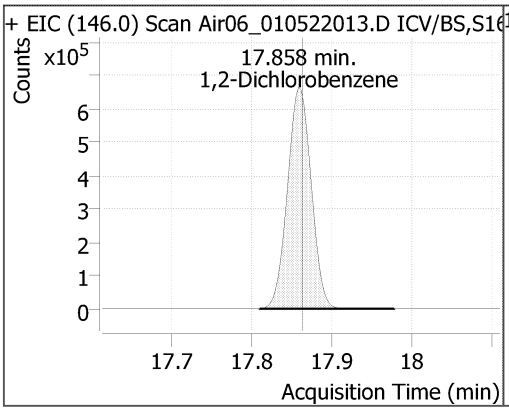

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 8.7559 | 17.41 | -0.01 | 1403054 | 148.0 | 64.9 | 51.6 | 77.3 |
| | | | | | 111.0 | 39.0 | 31.0 | 46.4 |
| | | | | | 75.0 | 29.7 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.4 | 8.4 | 12.6 |

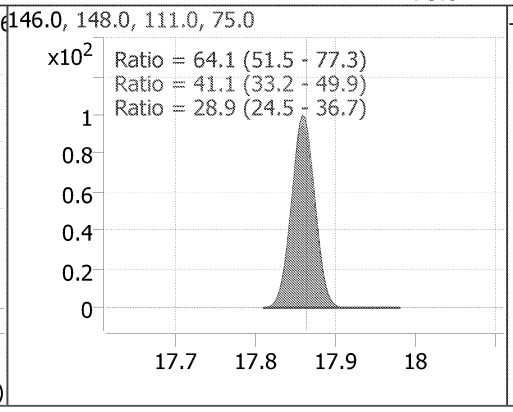


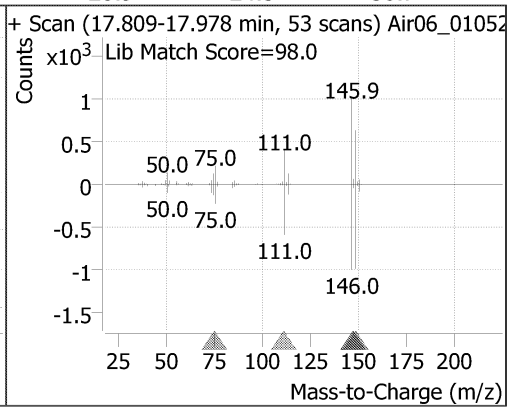



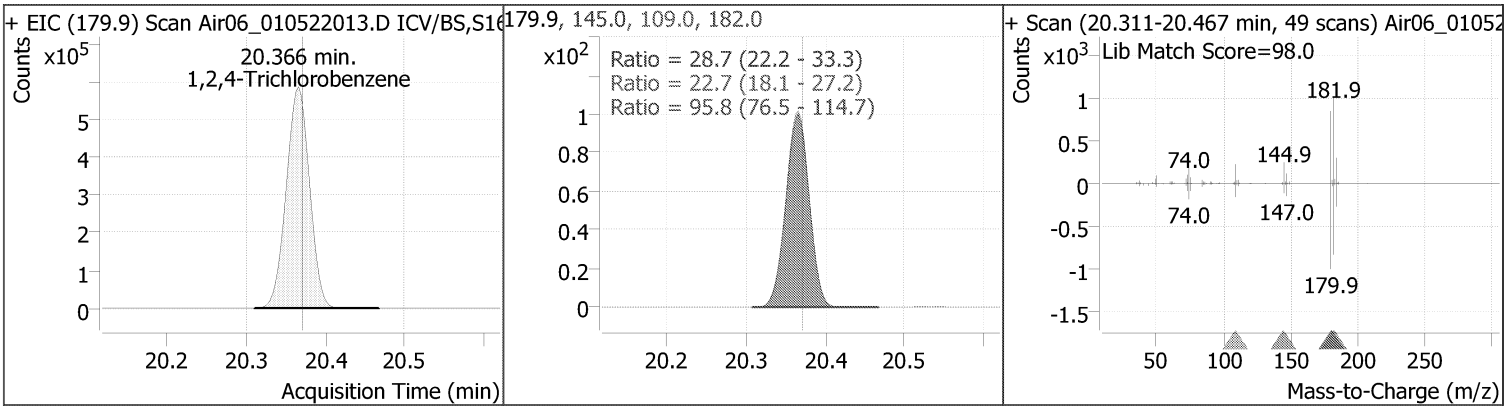

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 8.8813 | 17.86 | 0.00 | 1372677 | 148.0 | 64.1 | 51.5 | 77.3 |
| | | | | | 111.0 | 41.1 | 33.2 | 49.9 |
| | | | | | 75.0 | 28.9 | 24.5 | 36.7 |



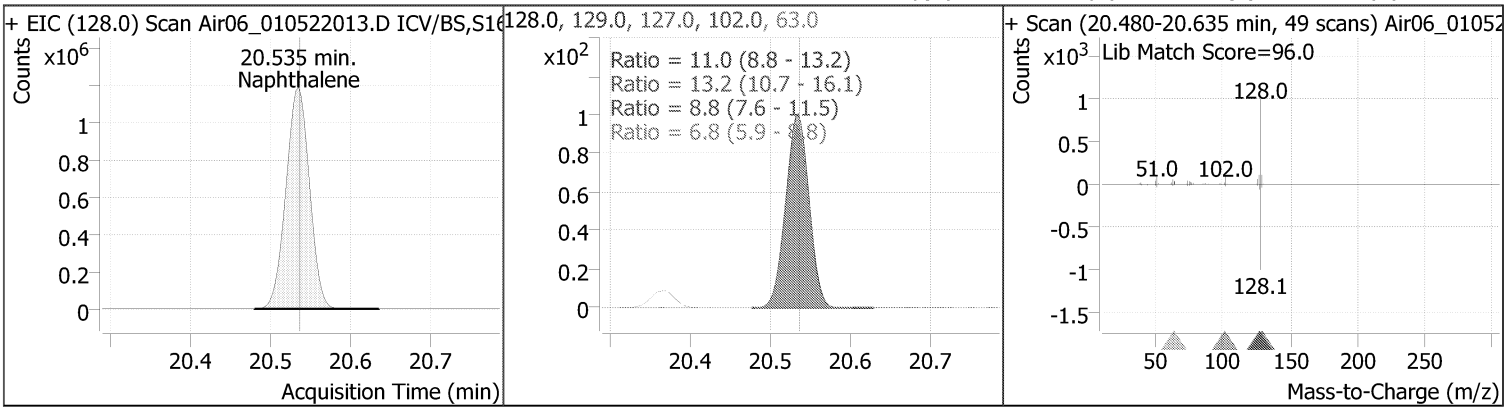



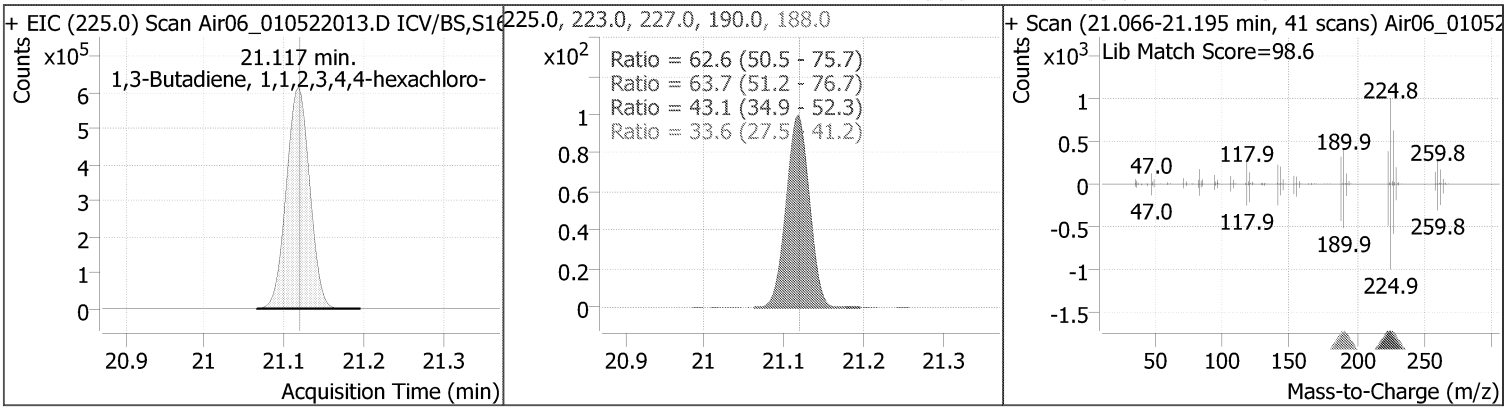
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 9.3309 | 20.37 | 0.00 | 1188381 | 182.0 | 95.8 | 76.5 | 114.7 |
| | | | | | 145.0 | 28.7 | 22.2 | 33.3 |
| | | | | | 109.0 | 22.7 | 18.1 | 27.2 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 9.2204 | 20.53 | 0.00 | 2430554 | 127.0 | 13.2 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 8.8 | 7.6 | 11.5 |
| | | | | | 63.0 | 6.8 | 5.9 | 8.8 |




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 9.1494 | 21.12 | 0.00 | 1252144 | 227.0 | 63.7 | 51.2 | 76.7 |
| | | | | | 223.0 | 62.6 | 50.5 | 75.7 |
| | | | | | 190.0 | 43.1 | 34.9 | 52.3 |
| | | | | | 188.0 | 33.6 | 27.5 | 41.2 |



**Continuing Calibration Verification Raw Data**

ENTHALPY SPIKE USER REPORT FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-06 Run Name : QC967767 IDF : 1.0
Seqnum : 372030848003.2 File : air06_012122003 Time : 21-JAN-2022 11:43
Cal : 372007975001 Caldate : 05-JAN-2022
Standards: S16363 (4X), S16385 (5X)

| Analyte | Avg RF/CF | RF/CF | Spiked | Quant | Units | %D | Max %D | Flags |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 2.6061 | 2.7618 | 10.00 | 10.60 | nL/L | 6 | 30 | u |
| Freon 114 | 1.8386 | 1.7937 | 10.00 | 9.756 | nL/L | -2 | 30 | u |
| Chloromethane | 1.2246 | 1.3210 | 10.00 | 10.79 | nL/L | 8 | 30 | u |
| Vinyl Chloride | 1.2249 | 1.2255 | 10.00 | 10.01 | nL/L | 0 | 30 | u |
| Bromomethane | 0.9018 | 0.8901 | 10.00 | 9.870 | nL/L | -1 | 30 | u |
| Chloroethane | 0.6038 | 0.6039 | 10.00 | 10.00 | nL/L | 0 | 30 | u |
| Trichlorofluoromethane | 3.0717 | 3.2052 | 10.00 | 10.43 | nL/L | 4 | 30 | u |
| 1,1-Dichloroethene | 2.2868 | 2.3538 | 10.00 | 10.29 | nL/L | 3 | 30 | u |
| Freon 113 | 2.4686 | 2.4541 | 10.00 | 9.941 | nL/L | -1 | 30 | u |
| Acetone | 0.6285 | 0.6569 | 10.00 | 10.45 | nL/L | 5 | 30 | u |
| Carbon Disulfide | 3.1980 | 3.1733 | 10.00 | 9.923 | nL/L | -1 | 30 | u |
| Isopropanol (IPA) | 2.2507 | 2.5741 | 10.00 | 11.44 | nL/L | 14 | 30 | u |
| Methylene Chloride | 1.1065 | 1.0510 | 10.00 | 9.498 | nL/L | -5 | 30 | u |
| trans-1,2-Dichloroethene | 1.9152 | 1.9188 | 10.00 | 10.02 | nL/L | 0 | 30 | u |
| MTBE | 3.1162 | 3.1843 | 10.00 | 10.22 | nL/L | 2 | 30 | u |
| n-Hexane | 2.1919 | 2.1750 | 10.00 | 9.923 | nL/L | -1 | 30 | u |
| 1,1-Dichloroethane | 2.3516 | 2.3808 | 10.00 | 10.12 | nL/L | 1 | 30 | u |
| Vinyl Acetate | 3.9460 | 3.7889 | 10.00 | 9.602 | nL/L | -4 | 30 | u |
| cis-1,2-Dichloroethene | 1.9371 | 1.9505 | 10.00 | 10.07 | nL/L | 1 | 30 | u |
| 2-Butanone | 3.0399 | 3.2250 | 10.00 | 10.61 | nL/L | 6 | 30 | u |
| Chloroform | 2.4716 | 2.5332 | 10.00 | 10.25 | nL/L | 2 | 30 | u |
| 1,1,1-Trichloroethane | 2.3908 | 2.4627 | 10.00 | 10.30 | nL/L | 3 | 30 | u |
| Carbon Tetrachloride | 2.5506 | 2.6136 | 10.00 | 10.25 | nL/L | 2 | 30 | u |
| Benzene | 3.5631 | 3.4613 | 10.00 | 9.714 | nL/L | -3 | 30 | u |
| 1,2-Dichloroethane | 1.8098 | 1.8909 | 10.00 | 10.45 | nL/L | 4 | 30 | u |
| Trichloroethene | 0.4167 | 0.3680 | 10.00 | 8.832 | nL/L | -12 | 30 | u |
| 1,2-Dichloropropane | 0.4096 | 0.3763 | 10.00 | 9.187 | nL/L | -8 | 30 | u |
| Bromodichloromethane | 0.6684 | 0.6310 | 10.00 | 9.441 | nL/L | -6 | 30 | u |
| cis-1,3-Dichloropropene | 0.1300 | 0.1139 | 10.00 | 8.759 | nL/L | -12 | 30 | u |
| 4-Methyl-2-Pentanone | 0.3593 | 0.3247 | 10.00 | 9.039 | nL/L | -10 | 30 | u |
| Toluene | 1.1853 | 1.0496 | 10.00 | 8.855 | nL/L | -11 | 30 | u |
| trans-1,3-Dichloropropene | 0.1333 | 0.1182 | 10.00 | 8.866 | nL/L | -11 | 30 | u |
| 1,1,2-Trichloroethane | 0.3901 | 0.3527 | 10.00 | 9.041 | nL/L | -10 | 30 | u |
| Tetrachloroethene | 0.6128 | 0.5213 | 10.00 | 8.507 | nL/L | -15 | 30 | u |
| 2-Hexanone | 0.4614 | 0.4257 | 10.00 | 9.227 | nL/L | -8 | 30 | u |
| Dibromochloromethane | 0.7081 | 0.6509 | 10.00 | 9.192 | nL/L | -8 | 30 | u |
| 1,2-Dibromoethane | 0.6001 | 0.5435 | 10.00 | 9.057 | nL/L | -9 | 30 | u |
| Chlorobenzene | 1.7125 | 1.6023 | 10.00 | 9.356 | nL/L | -6 | 30 | u |
| Ethylbenzene | 2.7206 | 2.6017 | 10.00 | 9.563 | nL/L | -4 | 30 | u |
| m,p-Xylenes | 2.1880 | 2.0901 | 20.00 | 19.11 | nL/L | -4 | 30 | u |
| o-Xylene | 2.2496 | 2.1518 | 10.00 | 9.565 | nL/L | -4 | 30 | u |
| Styrene | 1.7339 | 1.6121 | 10.00 | 9.298 | nL/L | -7 | 30 | u |
| Bromoform | 1.4986 | 1.4037 | 10.00 | 9.367 | nL/L | -6 | 30 | u |
| 1,1,2,2-Tetrachloroethane | 1.6534 | 1.6124 | 10.00 | 9.752 | nL/L | -2 | 30 | u |
| 1,1,1,2-Tetrachloroethane | 0.8630 | 0.8338 | 10.00 | 9.662 | nL/L | -3 | 30 | u |
| 4-Ethyltoluene | 3.0516 | 2.9032 | 10.00 | 9.514 | nL/L | -5 | 30 | u |
| 1,3,5-Trimethylbenzene | 2.6417 | 2.5087 | 10.00 | 9.496 | nL/L | -5 | 30 | u |
| 1,2,4-Trimethylbenzene | 2.6238 | 2.4995 | 10.00 | 9.526 | nL/L | -5 | 30 | u |

| Analyte | Avg RF/CF | RF/CF | Spiked | Quant | Units | %D | Max %D | Flags |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 1.7997 | 1.6677 | 10.00 | 9.267 | nL/L | -7 | 30 | u |
| 1,4-Dichlorobenzene | 1.8199 | 1.6874 | 10.00 | 9.272 | nL/L | -7 | 30 | u |
| Benzyl chloride | 2.3071 | 2.3181 | 10.00 | 10.05 | nL/L | 0 | 30 | u |
| 1,2-Dichlorobenzene | 1.7553 | 1.6275 | 10.00 | 9.272 | nL/L | -7 | 30 | u |
| 1,2,4-Trichlorobenzene | 1.4464 | 1.3742 | 10.00 | 9.501 | nL/L | -5 | 30 | u |
| Hexachlorobutadiene | 1.5543 | 1.3842 | 10.00 | 8.906 | nL/L | -11 | 30 | u |
| Bromofluorobenzene | 1.3150 | 1.3282 | 10.00 | 10.10 | nL/L | 1 | 30 | u |

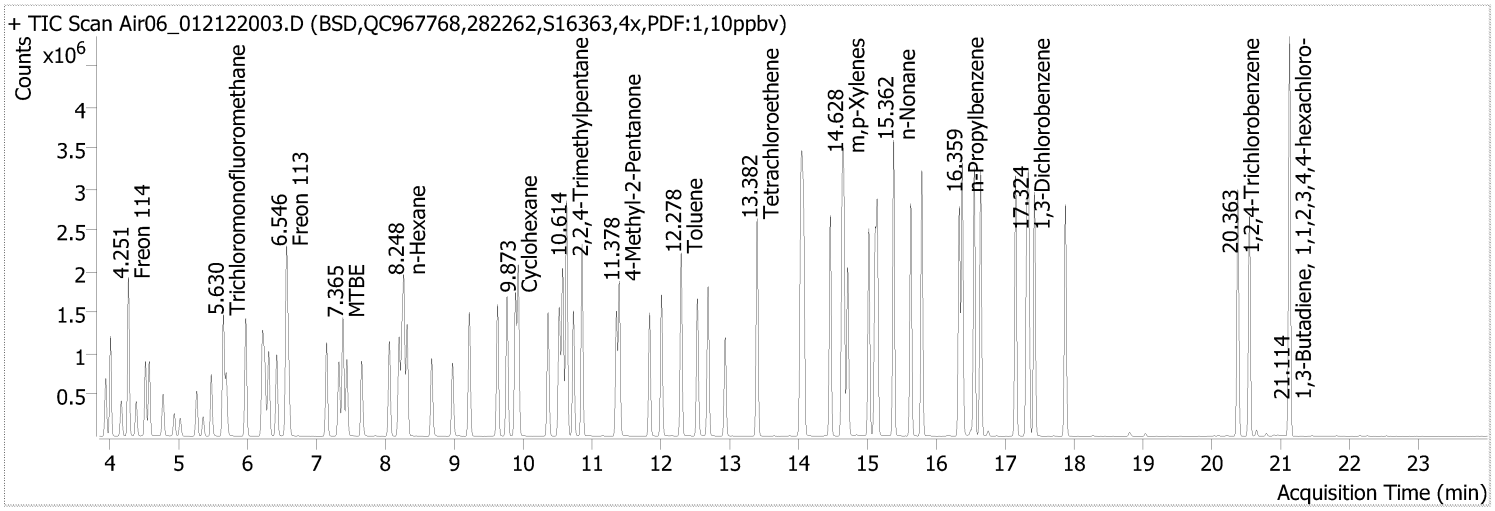
| ISTD (ICAL air06_010522009) | ICAL Area | Area | %Drift | ICAL RT | RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 404947 | -1.52 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1669689 | 7.61 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 847624 | 0.04 | 14.01 | 14.01 | 0.00 |

Analyst: DJL Date: 01/26/22 Reviewer: LW Date: 01/27/22

u=use

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012122003.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/21/2022 11:43:39 AM |
| Sample Name | BSD,QC967768,282262,S16363,4x,PDF:1,10ppbv | Instrument | Air-MS-06 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 21 0951 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



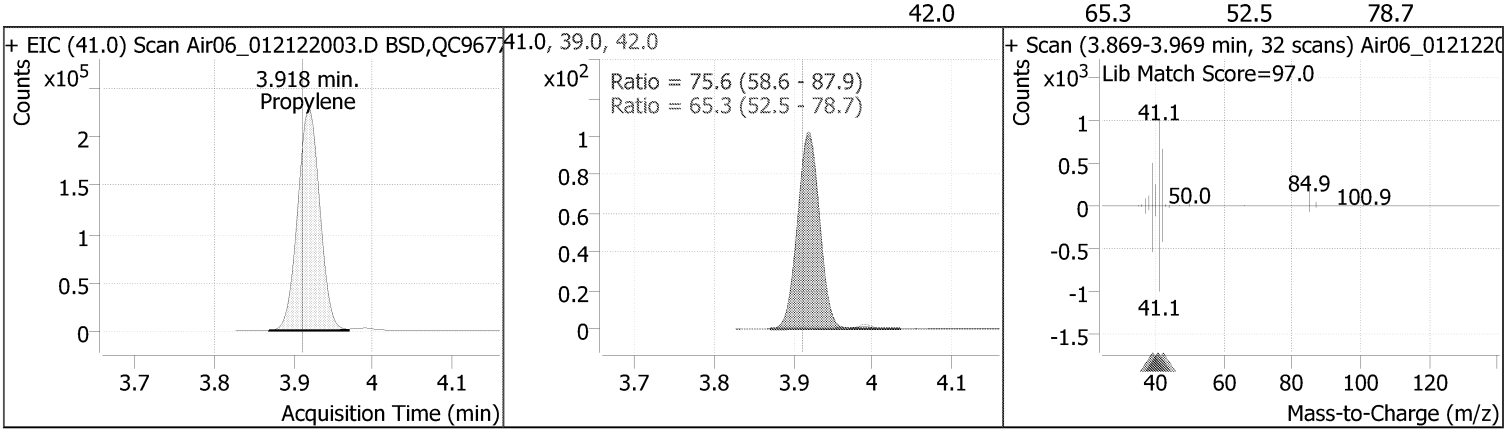

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.180 | 130.0 | 404947 | 10.0000 | nL/L | | 0.003 |
| M 1,4-Difluorobenzene | 9.912 | 114.0 | 1669688 | 10.0000 | nL/L | | 0.003 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 847624 | 10.0000 | nL/L | | 0.000 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1125827 | 10.1005 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 101.00% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.918 | 41.0 | 448715 | 11.2484 | nL/L | | 98 |
| T Freon 12 | 3.989 | 85.0 | 1118378 | 10.5974 | nL/L | # | 98 |
| T Chloromethane | 4.144 | 50.0 | 534936 | 10.7875 | nL/L | | 99 |
| T Freon 114 | 4.251 | 135.0 | 726341 | 9.7558 | nL/L | | 100 |
| T Vinyl Chloride | 4.361 | 62.0 | 496261 | 10.0051 | nL/L | | 99 |
| T 1,3-Butadiene | 4.497 | 54.0 | 449465 | 10.5810 | nL/L | | 97 |
| T Butane | 4.552 | 43.0 | 915793 | 11.1077 | nL/L | | 98 |
| T Bromomethane | 4.753 | 96.0 | 360462 | 9.8705 | nL/L | | 100 |
| T Chloroethane | 4.914 | 64.0 | 244548 | 10.0017 | nL/L | | 96 |
| T Ethanol | 5.002 | 45.0 | 267787 | 10.9659 | nL/L | | 99 |
| T Vinyl bromide | 5.241 | 108.0 | 420127 | 9.8035 | nL/L | | 100 |
| T Acrolein | 5.335 | 56.0 | 216267 | 10.0390 | nL/L | | 100 |
| T Acetone | 5.452 | 58.0 | 266027 | 10.4525 | nL/L | | 88 |
| T Trichloromonofluoromethane | 5.630 | 101.0 | 1297951 | 10.4349 | nL/L | | 100 |
| T Isopropanol (IPA) | 5.669 | 45.0 | 1042390 | 11.4370 | nL/L | | 98 |
| T n-Pentane | 5.953 | 43.0 | 1067874 | 10.4820 | nL/L | | 99 |
| T 1,1-Dichloroethene | 6.196 | 61.0 | 953157 | 10.2930 | nL/L | | 99 |
| T Tert-butyl alcohol (TBA) | 6.229 | 59.0 | 1103973 | 10.4670 | nL/L | | 95 |
| T Methylene Chloride | 6.287 | 84.0 | 425581 | 9.4982 | nL/L | | 97 |
| T 3-Chloropropene | 6.403 | 76.0 | 204256 | 9.8889 | nL/L | | 100 |
| T Freon 113 | 6.546 | 101.0 | 993762 | 9.9411 | nL/L | | 98 |
| T Carbon Disulfide | 6.575 | 76.0 | 1285012 | 9.9229 | nL/L | | 97 |

| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| T trans-1,2-Dichloroethene | 7.128 | 61.0 | 777002 | 10.0186 | nL/L | 99 |
| T 1,1-Dichloroethane | 7.306 | 63.0 | 964092 | 10.1241 | nL/L | 100 |
| T MTBE | 7.365 | 73.0 | 1289478 | 10.2186 | nL/L | 97 |
| T Vinyl Acetate | 7.423 | 43.0 | 1534289 | 9.6017 | nL/L | 99 |
| T 2-Butanone | 7.636 | 43.0 | 1305948 | 10.6087 | nL/L | 94 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 789844 | 10.0690 | nL/L | 99 |
| T Ethyl Acetate | 8.219 | 61.0 | 187672 | 9.7104 | nL/L | 86 |
| T n-Hexane | 8.248 | 57.0 | 880770 | 9.9231 | nL/L | 97 |
| T Chloroform | 8.297 | 83.0 | 1025810 | 10.2490 | nL/L | 98 |
| T Tetrahydrofuran | 8.653 | 72.0 | 217679 | 9.8598 | nL/L | 95 |
| T 1,2-Dichloroethane | 8.957 | 62.0 | 765721 | 10.4481 | nL/L | 99 |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 997278 | 10.3010 | nL/L | 98 |
| T Benzene | 9.611 | 78.0 | 1401626 | 9.7143 | nL/L | 99 |
| T Carbon Tetrachloride | 9.750 | 117.0 | 1058377 | 10.2471 | nL/L | 98 |
| T Cyclohexane | 9.873 | 84.0 | 572378 | 9.4951 | nL/L | 96 |
| T 1,2-Dichloropropane | 10.346 | 63.0 | 628304 | 9.1869 | nL/L | 97 |
| T Methane, bromodichloro- | 10.504 | 83.0 | 1053599 | 9.4413 | nL/L | 98 |
| T 1,4-Dioxane | 10.537 | 88.0 | 316715 | 8.8742 | nL/L | 97 |
| T Trichloroethene | 10.559 | 132.0 | 614483 | 8.8322 | nL/L | 98 |
| T 2,2,4-Trimethylpentane | 10.614 | 57.0 | 2813536 | 9.0394 | nL/L | 98 |
| T Methyl methacrylate | 10.711 | 69.0 | 533141 | 9.1833 | nL/L | 91 |
| T n-Heptane | 10.838 | 71.0 | 480696 | 8.9403 | nL/L | 98 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 190155 | 8.7586 | nL/L | 92 |
| T 4-Methyl-2-Pentanone | 11.378 | 58.0 | 542205 | 9.0391 | nL/L | 94 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 197359 | 8.8662 | nL/L | 96 |
| T 1,1,2-Trichloroethane | 11.993 | 97.0 | 588843 | 9.0410 | nL/L | 99 |
| T Toluene | 12.278 | 91.0 | 1752514 | 8.8553 | nL/L | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 253344156 | 18.5548 | nL/L | 100 |
| T 2-Hexanone | 12.514 | 58.0 | 710867 | 9.2268 | nL/L | 93 |
| T Dibromochloromethane | 12.670 | 129.0 | 1086833 | 9.1919 | nL/L | 99 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 907503 | 9.0569 | nL/L | 100 |
| T Tetrachloroethene | 13.382 | 166.0 | 870419 | 8.5070 | nL/L | 96 |
| T 1,1,1,2-Tetrachloroethane | 14.035 | 131.0 | 706751 | 9.6621 | nL/L | 99 |
| T Benzene, chloro- | 14.058 | 112.0 | 1358124 | 9.3565 | nL/L | 98 |
| T Ethylbenzene | 14.443 | 91.0 | 2205226 | 9.5627 | nL/L | 99 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 192135275 | 19.2658 | nL/L | 100 |
| T m,p-Xylenes | 14.628 | 91.0 | 3543302 | 19.1051 | nL/L | 98 |
| T Bromoform | 14.696 | 173.0 | 1189836 | 9.3667 | nL/L | 98 |
| T Styrene | 15.003 | 104.0 | 1366491 | 9.2975 | nL/L | 98 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 1366749 | 9.7521 | nL/L | 100 |
| T o-Xylene | 15.126 | 91.0 | 1823909 | 9.5654 | nL/L | 99 |
| T n-Nonane | 15.362 | 85.0 | 415199 | 9.4252 | nL/L | 97 |
| T Isopropylbenzene | 15.774 | 105.0 | 2461991 | 9.4191 | nL/L | 99 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 614014 | 9.2230 | nL/L | 98 |
| T n-Propylbenzene | 16.359 | 120.0 | 687358 | 9.4119 | nL/L | 87 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 2460796 | 9.5135 | nL/L | 98 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 2126429 | 9.4965 | nL/L | 99 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 2118603 | 9.5261 | nL/L | 99 |
| T Benzyl chloride | 17.298 | 91.0 | 1964899 | 10.0479 | nL/L | 98 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 1413583 | 9.2666 | nL/L | 99 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 1430281 | 9.2722 | nL/L | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 1379466 | 9.2716 | nL/L | 99 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1164797 | 9.5007 | nL/L | 98 |
| T Naphthalene | 20.531 | 128.0 | 2530776 | 9.9732 | nL/L | 100 |
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.114 | 225.0 | 1173261 | 8.9057 | nL/L | 99 |

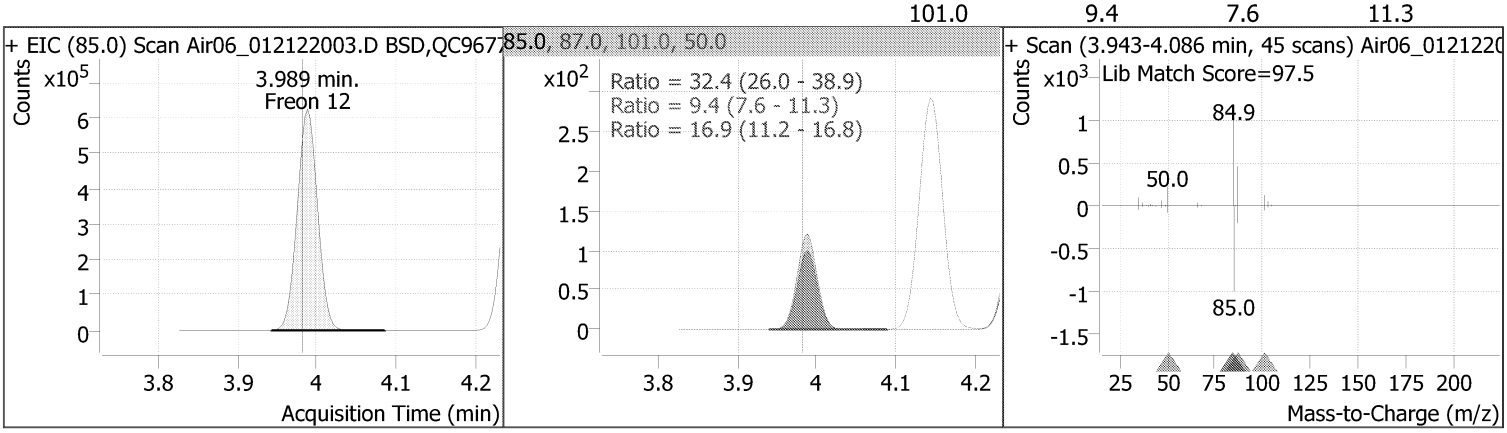
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

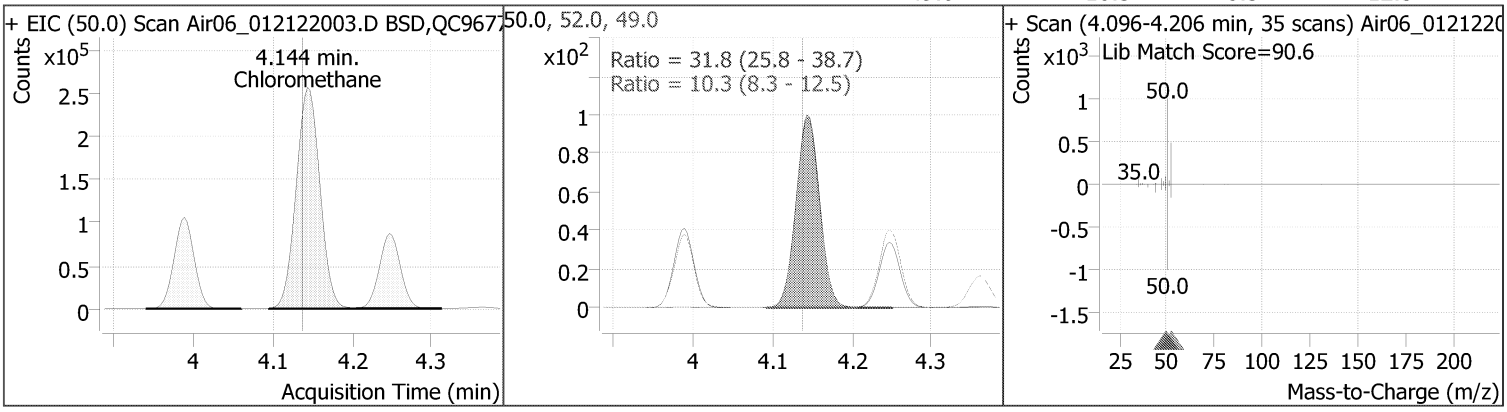
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 11.2484 | 3.92 | 0.01 | 448715 | 39.0 | 75.6 | 58.6 | 87.9 |
| | | | | | 42.0 | 65.3 | 52.5 | 78.7 |



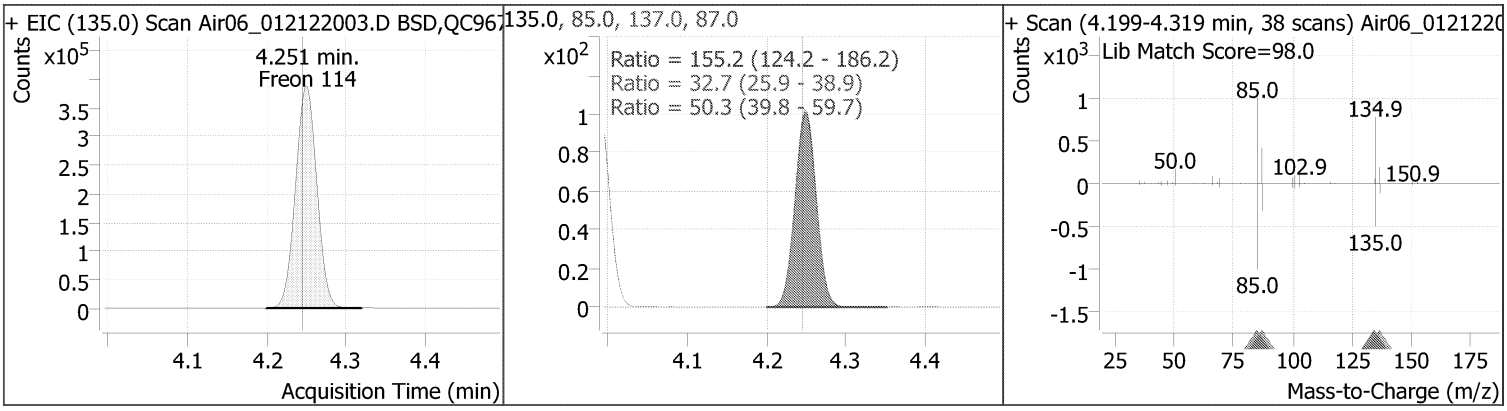

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 10.5974 | 3.99 | 0.01 | 1118378 | 87.0 | 32.4 | 26.0 | 38.9 |
| | | | | | 50.0 | 16.9 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.4 | 7.6 | 11.3 |



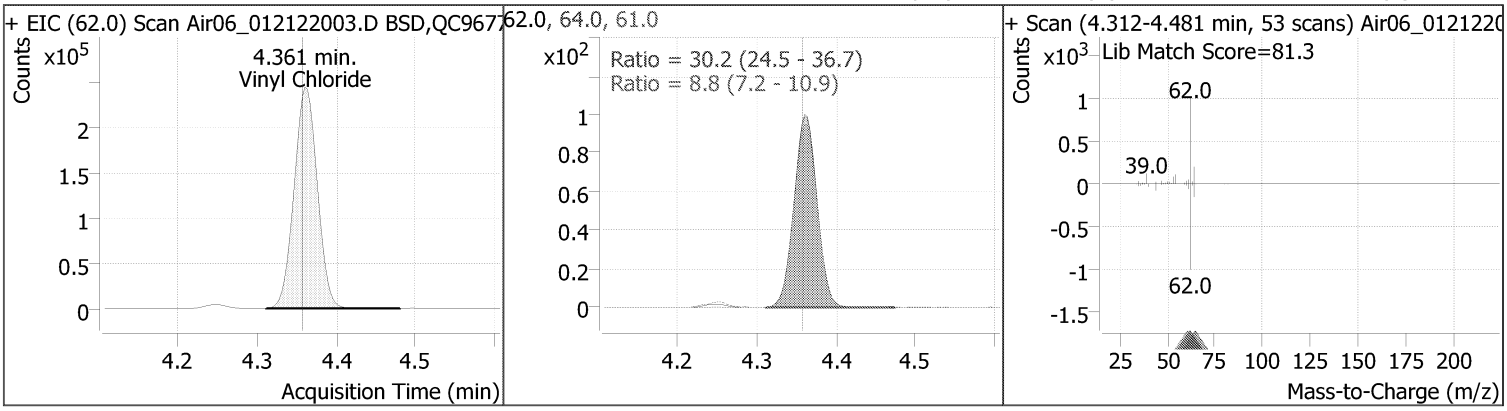

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.7875 | 4.14 | 0.01 | 534936 | 52.0 | 31.8 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.3 | 8.3 | 12.5 |



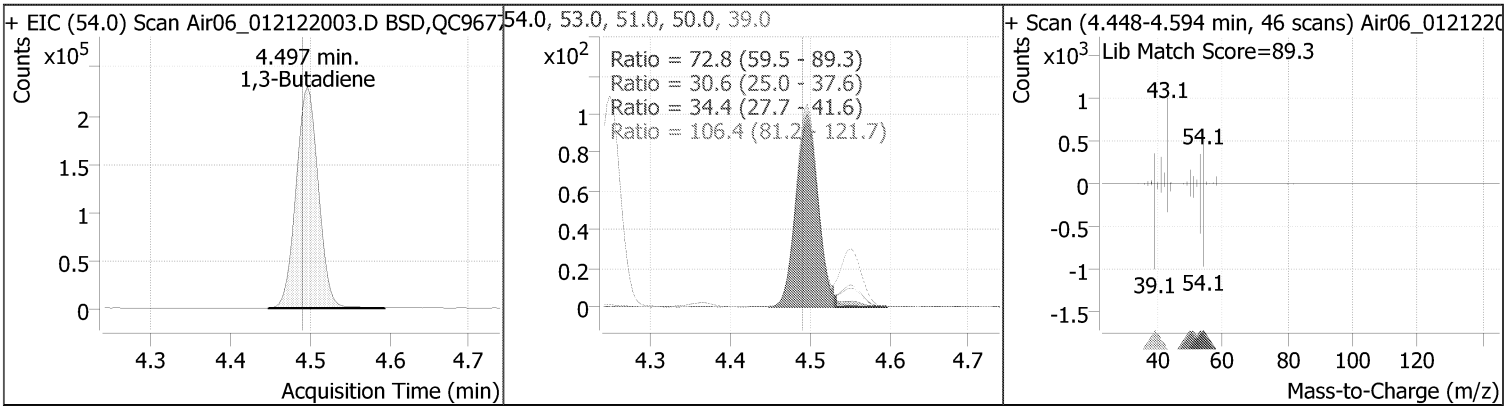
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 9.7558 | 4.25 | 0.01 | 726341 | 85.0 | 155.2 | 124.2 | 186.2 |
| | | | | | 87.0 | 50.3 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.7 | 25.9 | 38.9 |



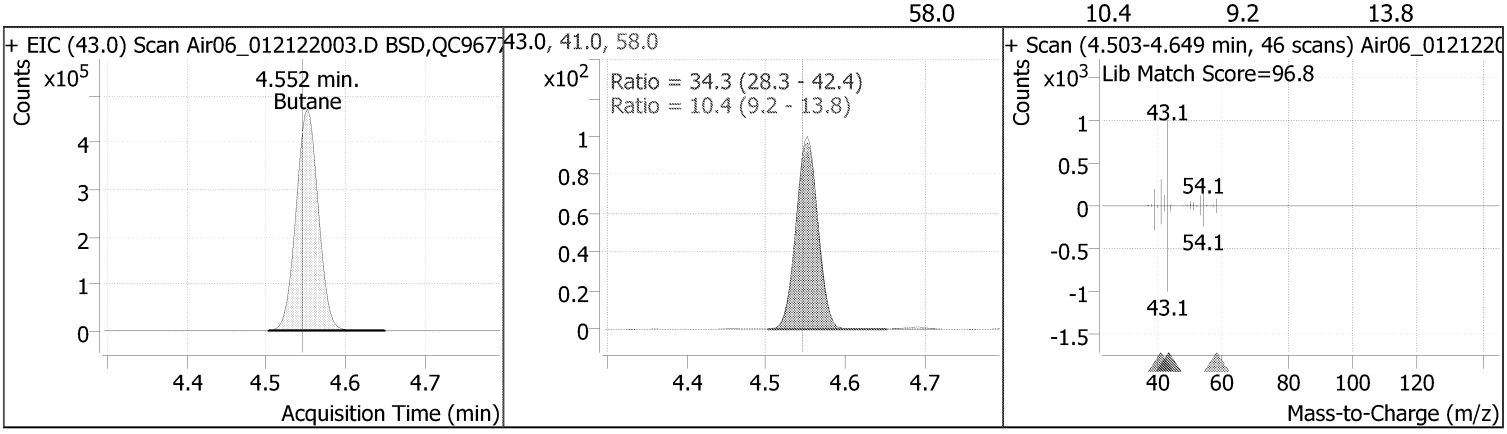

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 10.0051 | 4.36 | 0.01 | 496261 | 64.0 | 30.2 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.8 | 7.2 | 10.9 |



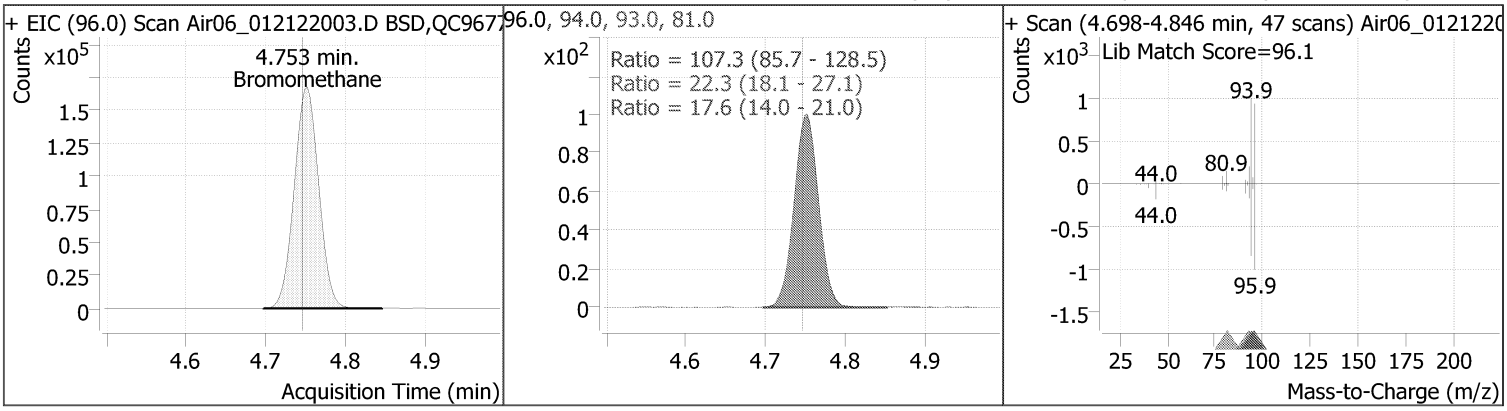

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 10.5810 | 4.50 | 0.01 | 449465 | 39.0 | 106.4 | 81.2 | 121.7 |
| | | | | | 53.0 | 72.8 | 59.5 | 89.3 |
| | | | | | 50.0 | 34.4 | 27.7 | 41.6 |
| | | | | | 51.0 | 30.6 | 25.0 | 37.6 |



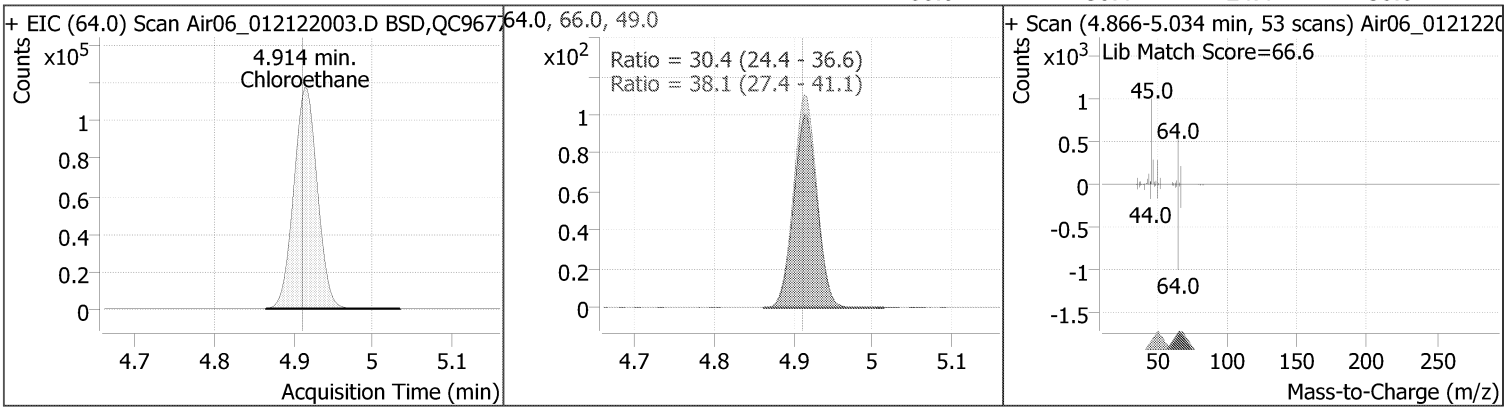
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 11.1077 | 4.55 | 0.01 | 915793 | 41.0 | 34.3 | 28.3 | 42.4 |
| | | | | | 58.0 | 10.4 | 9.2 | 13.8 |



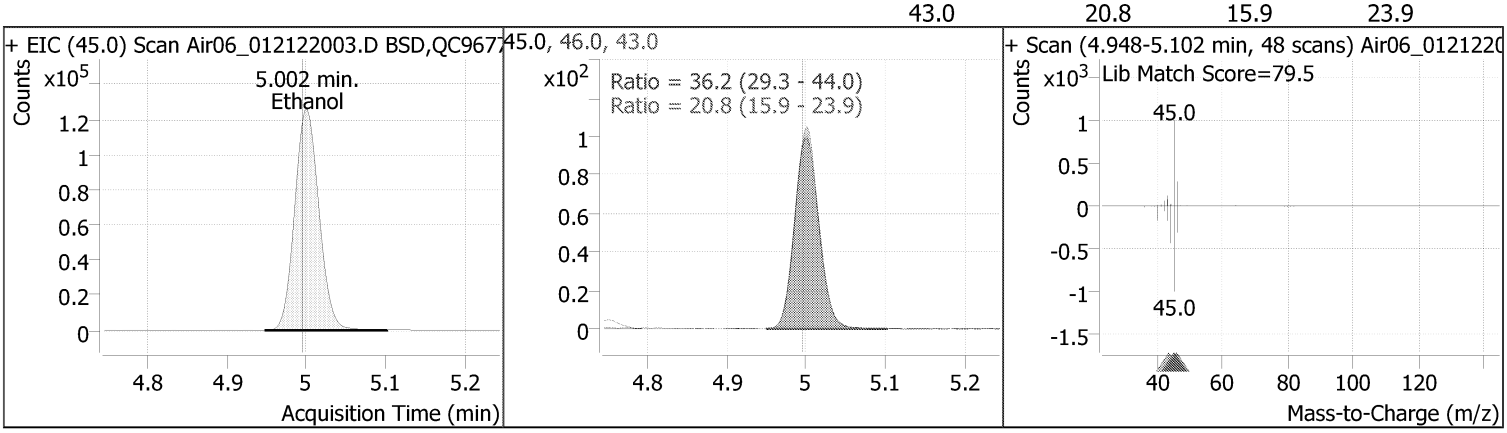

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 9.8705 | 4.75 | 0.01 | 360462 | 94.0 | 107.3 | 85.7 | 128.5 |
| | | | | | 93.0 | 22.3 | 18.1 | 27.1 |
| | | | | | 81.0 | 17.6 | 14.0 | 21.0 |



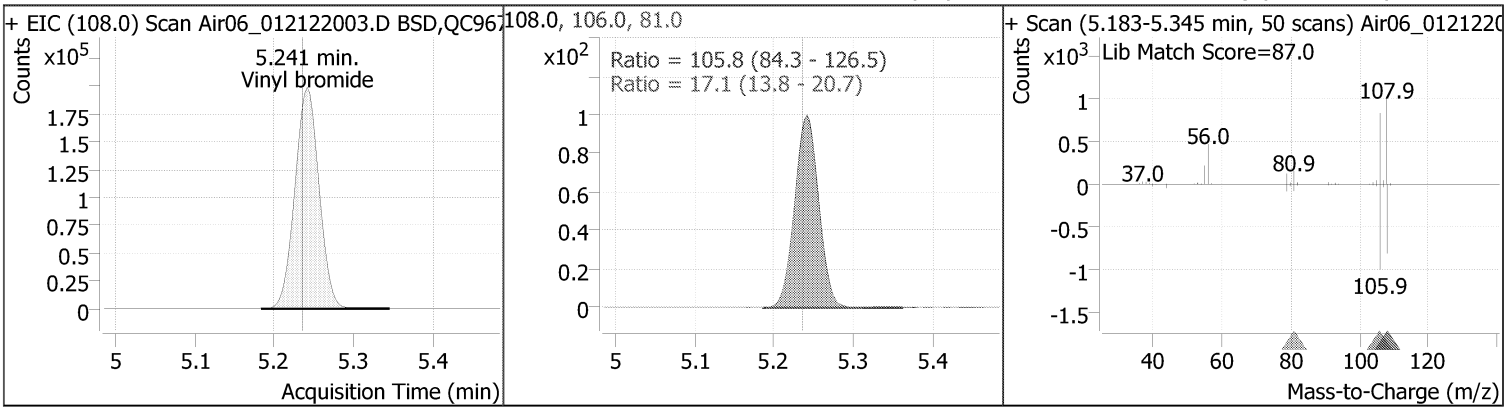

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0017 | 4.91 | 0.01 | 244548 | 49.0 | 38.1 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.4 | 24.4 | 36.6 |



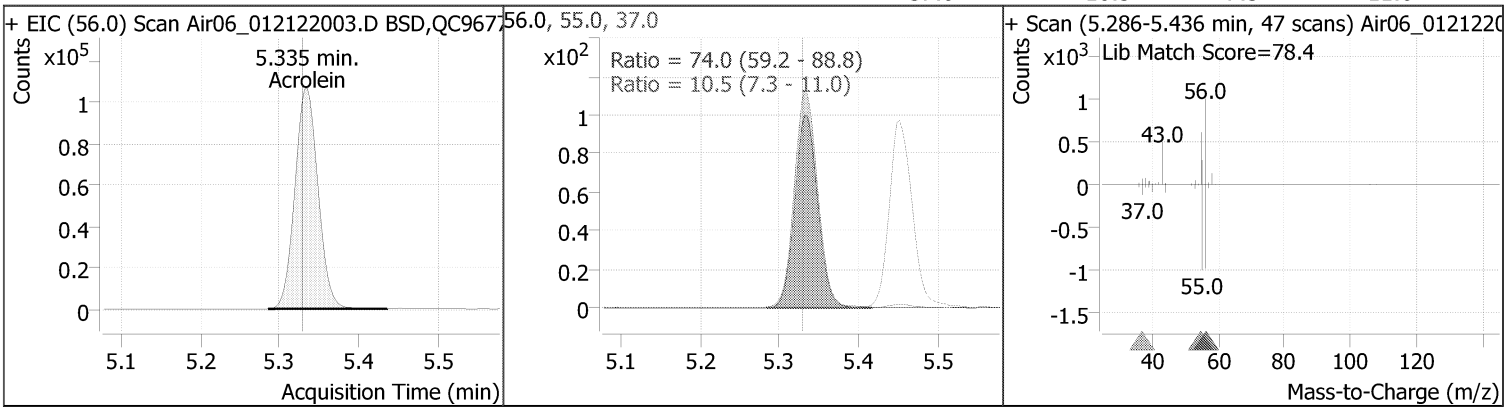
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 10.9659 | 5.00 | 0.01 | 267787 | 46.0 | 36.2 | 29.3 | 44.0 |
| | | | | | 43.0 | 20.8 | 15.9 | 23.9 |



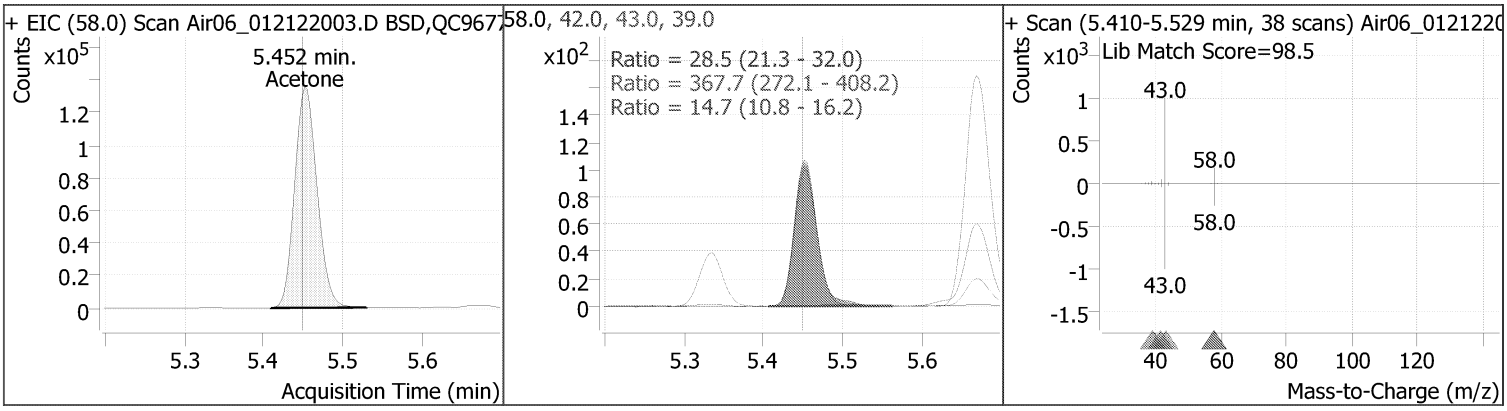

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 9.8035 | 5.24 | 0.01 | 420127 | 106.0 | 105.8 | 84.3 | 126.5 |
| | | | | | 81.0 | 17.1 | 13.8 | 20.7 |



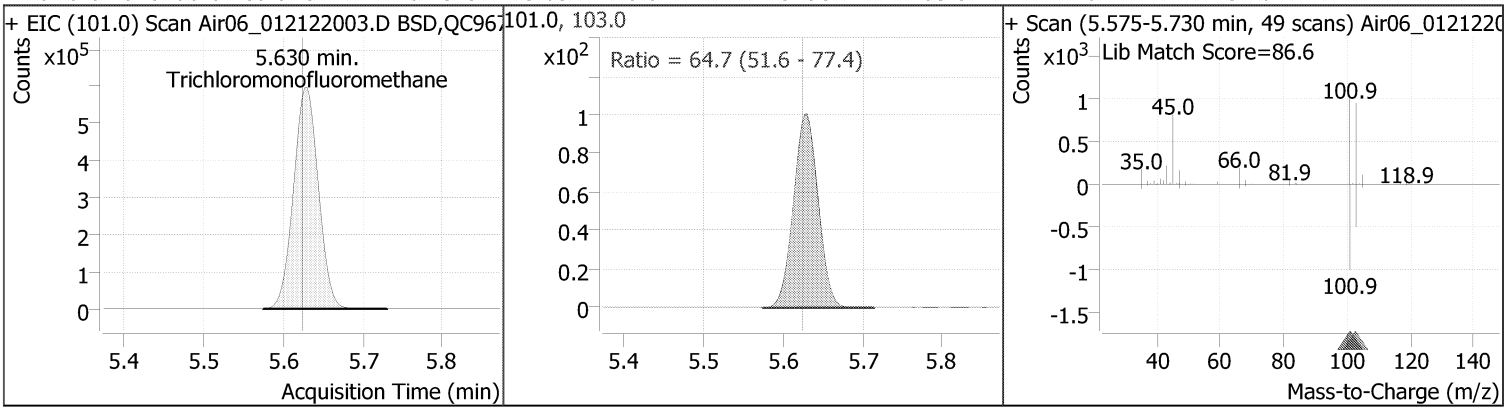

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 10.0390 | 5.34 | 0.01 | 216267 | 55.0 | 74.0 | 59.2 | 88.8 |
| | | | | | 37.0 | 10.5 | 7.3 | 11.0 |



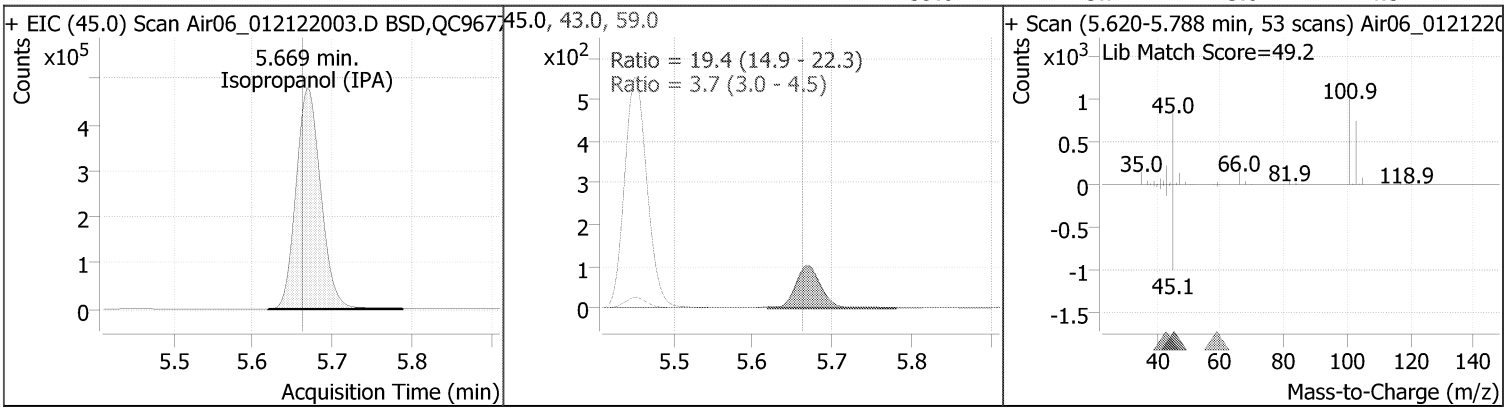
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 10.4525 | 5.45 | 0.01 | 266027 | 43.0 | 367.7 | 272.1 | 408.2 |
| | | | | | 42.0 | 28.5 | 21.3 | 32.0 |
| | | | | | 39.0 | 14.7 | 10.8 | 16.2 |



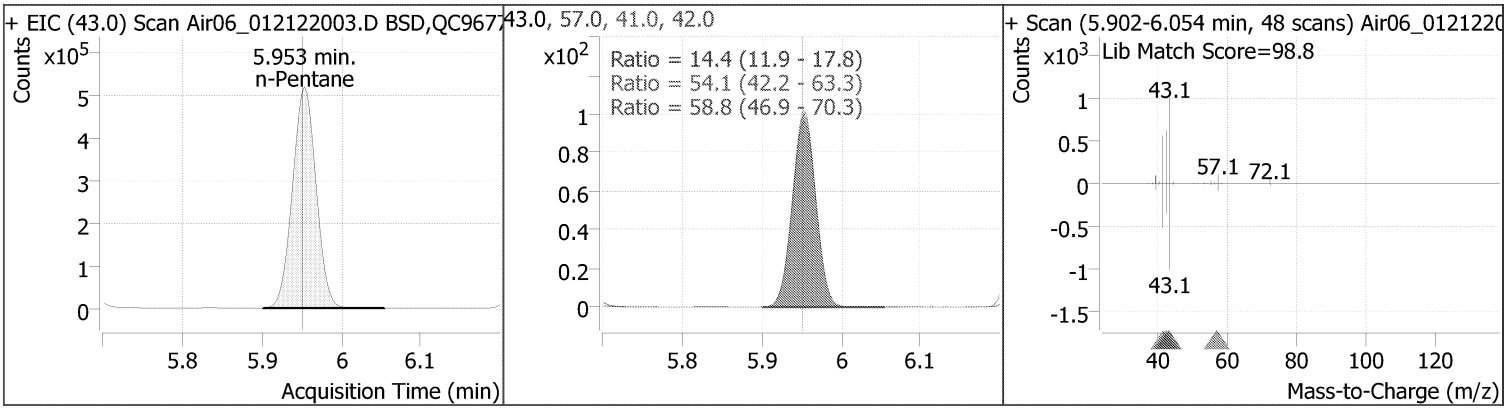

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 10.4349 | 5.63 | 0.01 | 1297951 | 103.0 | 64.7 | 51.6 | 77.4 |



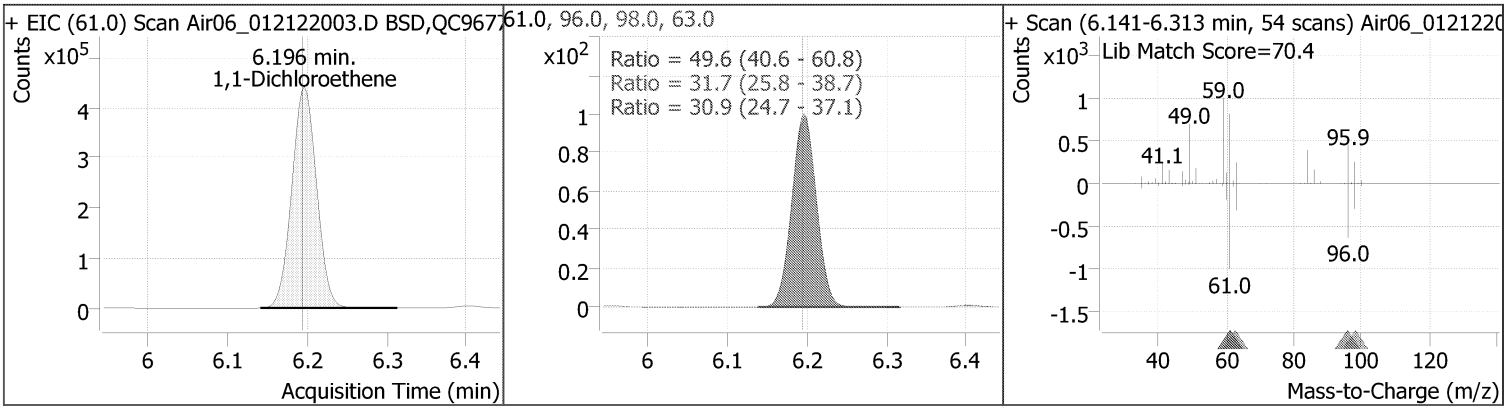

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 11.4370 | 5.67 | 0.01 | 1042390 | 43.0 | 19.4 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.7 | 3.0 | 4.5 |



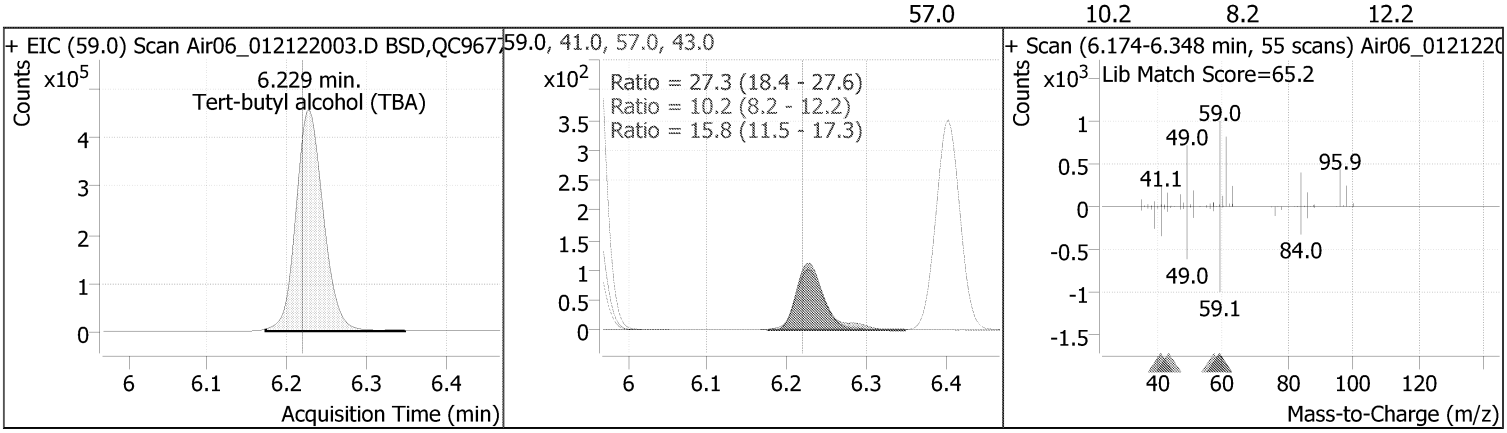
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 10.4820 | 5.95 | 0.01 | 1067874 | 42.0 | 58.8 | 46.9 | 70.3 |
| | | | | | 41.0 | 54.1 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.4 | 11.9 | 17.8 |



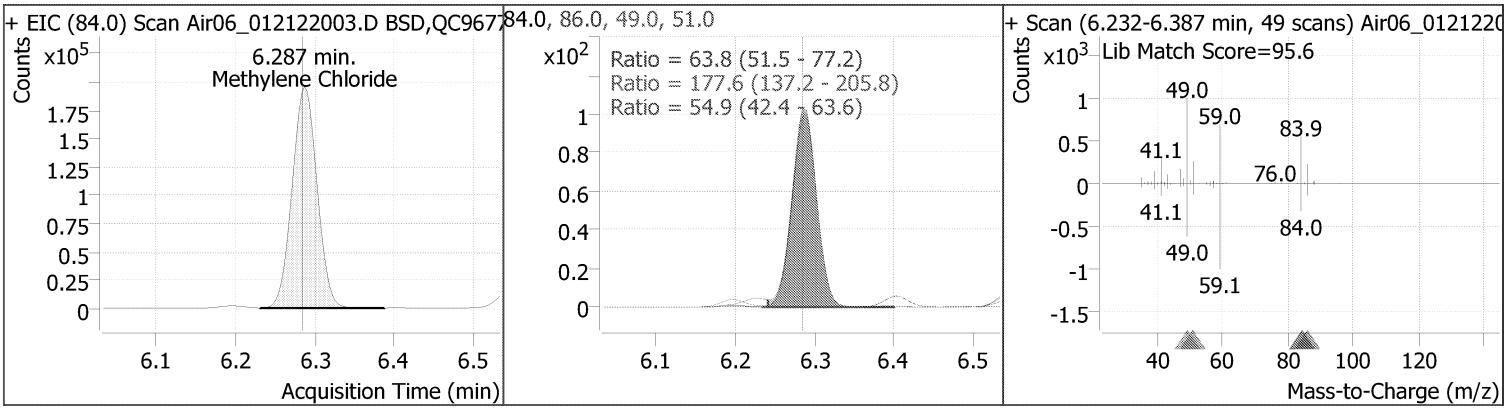

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 10.2930 | 6.20 | 0.01 | 953157 | 96.0 | 49.6 | 40.6 | 60.8 |
| | | | | | 98.0 | 31.7 | 25.8 | 38.7 |
| | | | | | 63.0 | 30.9 | 24.7 | 37.1 |



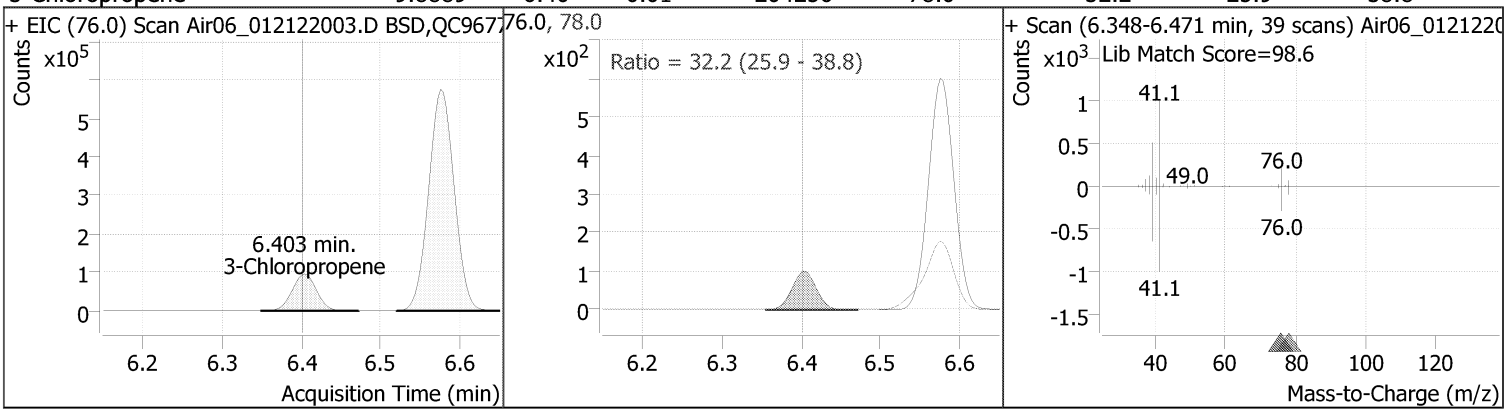

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 10.4670 | 6.23 | 0.01 | 1103973 | 41.0 | 27.3 | 18.4 | 27.6 |
| | | | | | 43.0 | 15.8 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.2 | 8.2 | 12.2 |



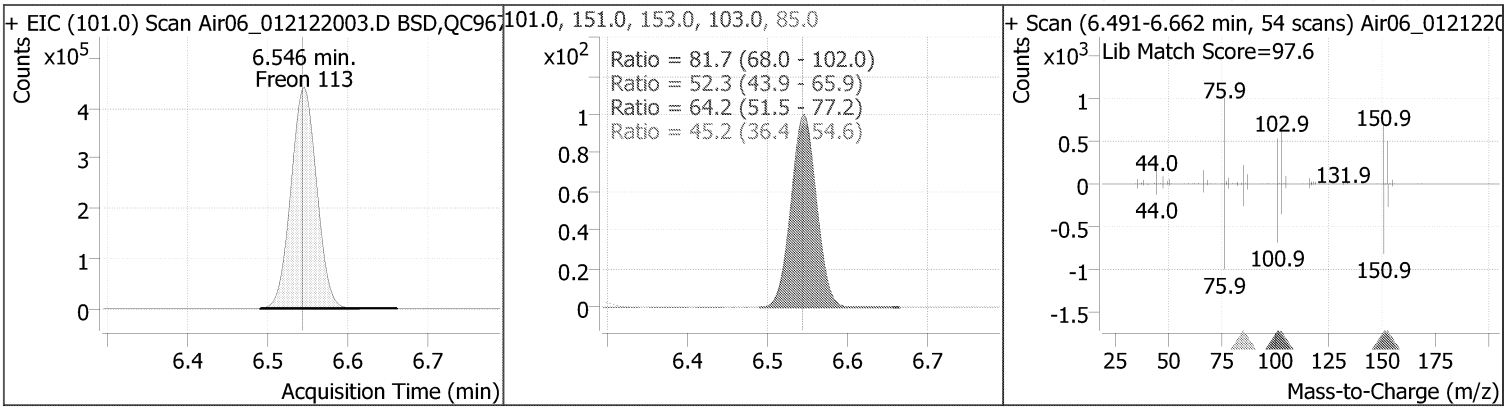
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 9.4982 | 6.29 | 0.01 | 425581 | 49.0 | 177.6 | 137.2 | 205.8 |
| | | | | | 86.0 | 63.8 | 51.5 | 77.2 |
| | | | | | 51.0 | 54.9 | 42.4 | 63.6 |



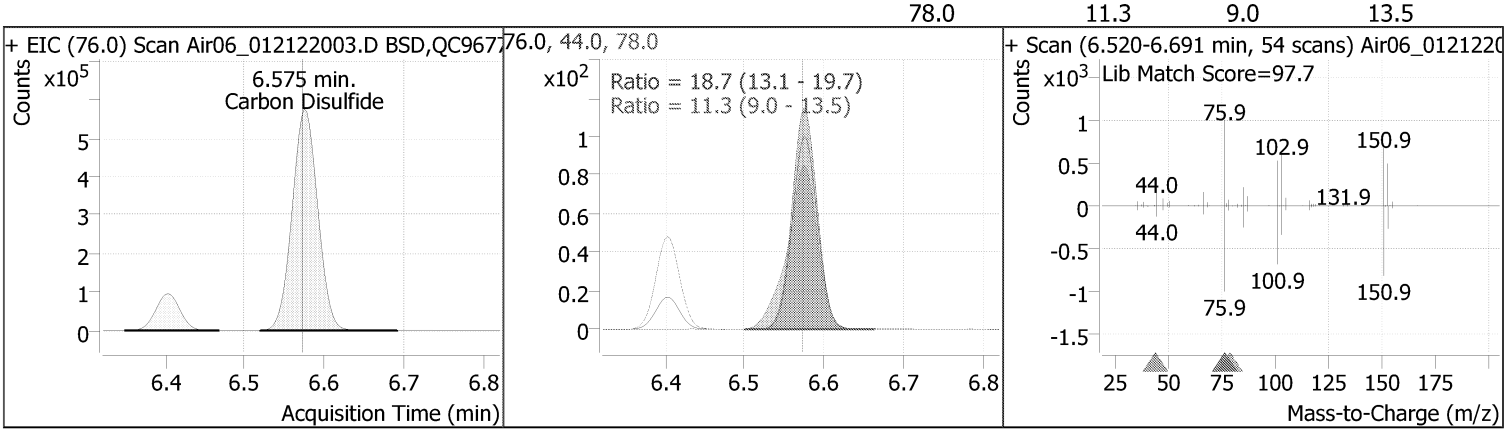

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 9.8889 | 6.40 | 0.01 | 204256 | 78.0 | 32.2 | 25.9 | 38.8 |



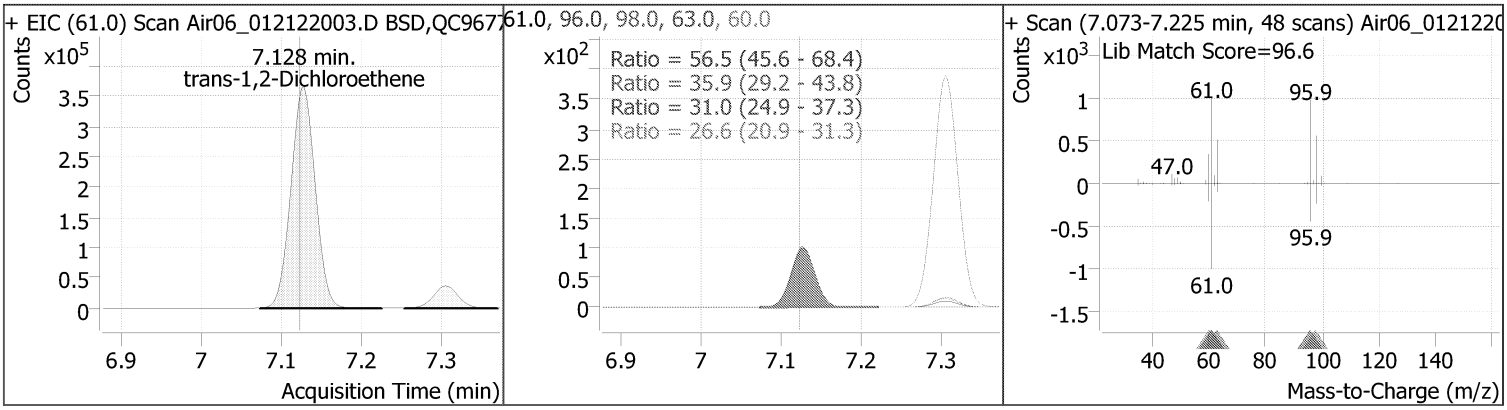

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 9.9411 | 6.55 | 0.01 | 993762 | 151.0 | 81.7 | 68.0 | 102.0 |
| | | | | | 103.0 | 64.2 | 51.5 | 77.2 |
| | | | | | 153.0 | 52.3 | 43.9 | 65.9 |
| | | | | | 85.0 | 45.2 | 36.4 | 54.6 |



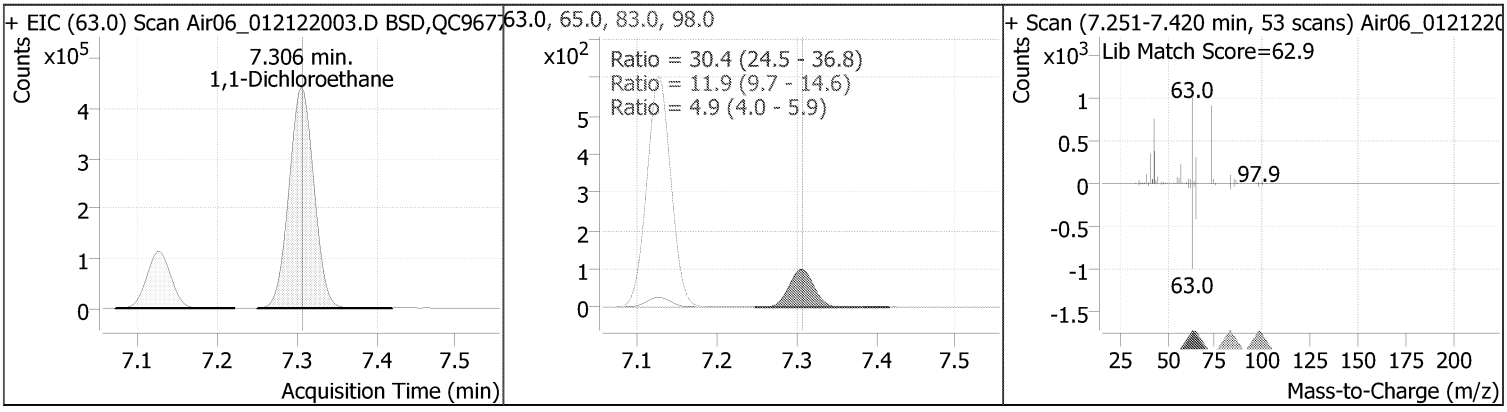
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 9.9229 | 6.57 | 0.01 | 1285012 | 44.0 | 18.7 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.3 | 9.0 | 13.5 |



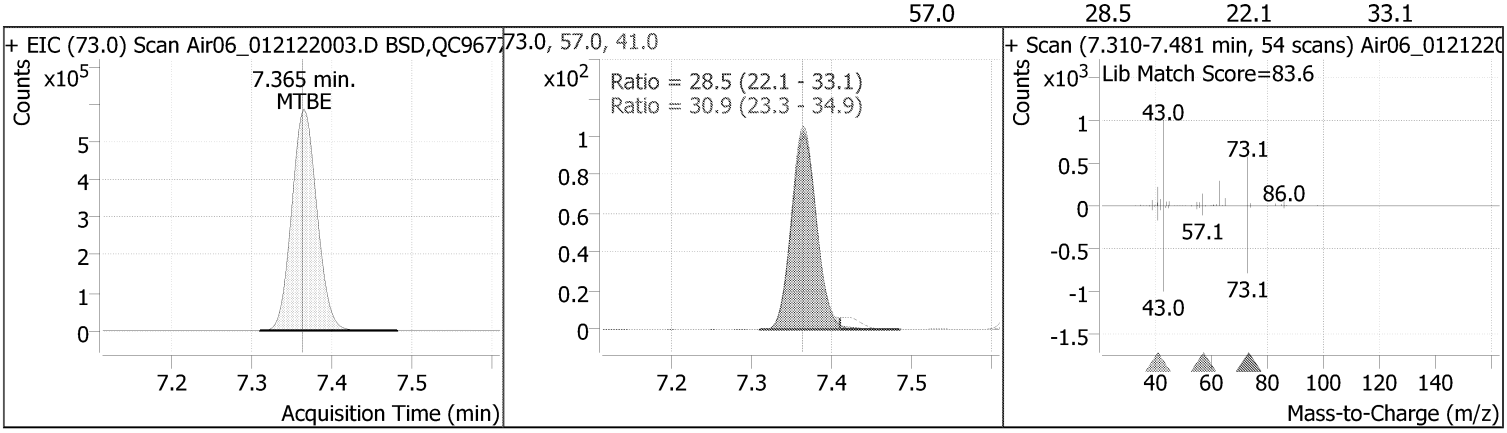

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 10.0186 | 7.13 | 0.01 | 777002 | 96.0 | 56.5 | 45.6 | 68.4 |
| | | | | | 98.0 | 35.9 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.0 | 24.9 | 37.3 |
| | | | | | 60.0 | 26.6 | 20.9 | 31.3 |



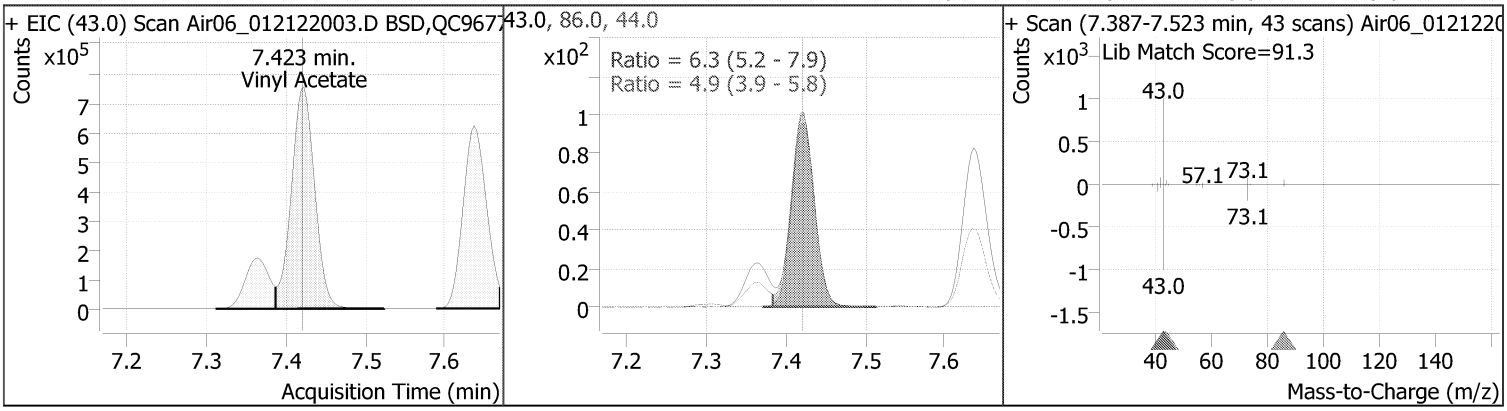

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 10.1241 | 7.31 | 0.00 | 964092 | 65.0 | 30.4 | 24.5 | 36.8 |
| | | | | | 83.0 | 11.9 | 9.7 | 14.6 |
| | | | | | 98.0 | 4.9 | 4.0 | 5.9 |



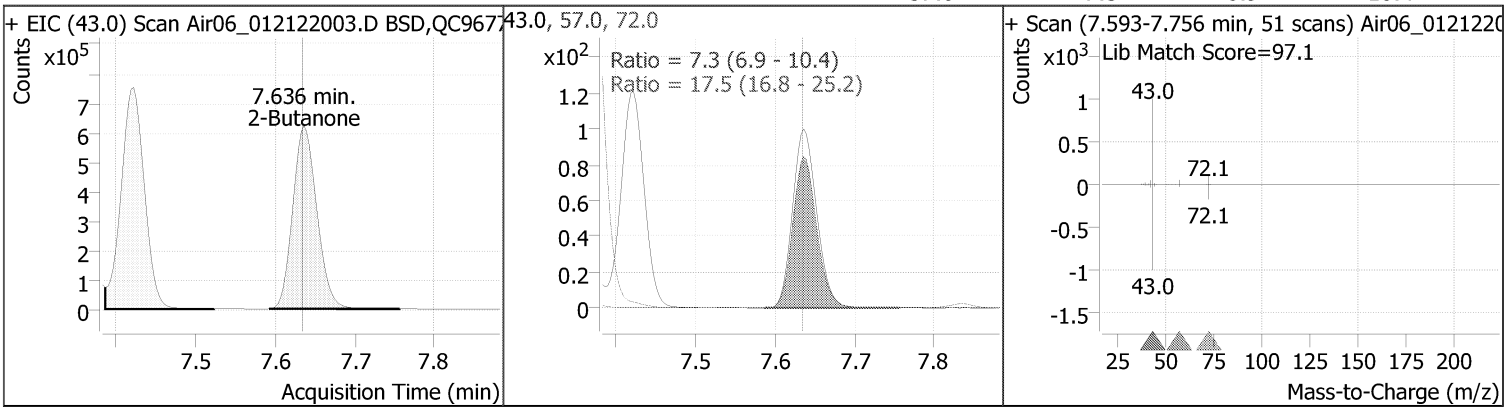
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 10.2186 | 7.36 | 0.01 | 1289478 | 41.0 | 30.9 | 23.3 | 34.9 |
| | | | | | 57.0 | 28.5 | 22.1 | 33.1 |



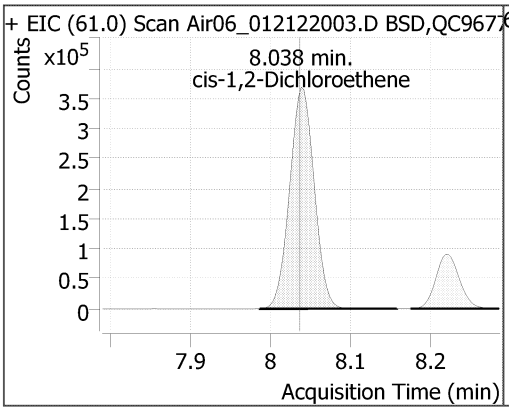

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 9.6017 | 7.42 | 0.01 | 1534289 | 86.0 | 6.3 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.9 | 3.9 | 5.8 |

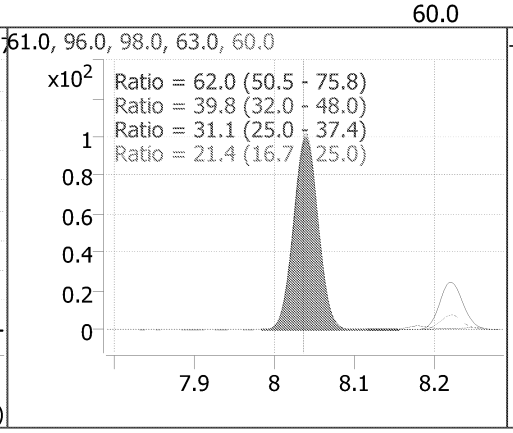


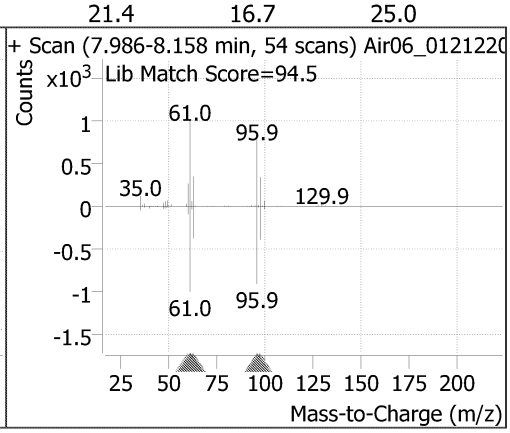

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 10.6087 | 7.64 | 0.01 | 1305948 | 72.0 | 17.5 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.3 | 6.9 | 10.4 |



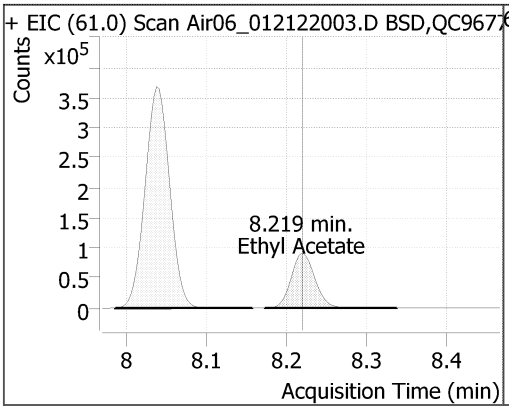
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 10.0690 | 8.04 | 0.00 | 789844 | 96.0 | 62.0 | 50.5 | 75.8 |
| | | | | | 98.0 | 39.8 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.1 | 25.0 | 37.4 |
| | | | | | 60.0 | 21.4 | 16.7 | 25.0 |

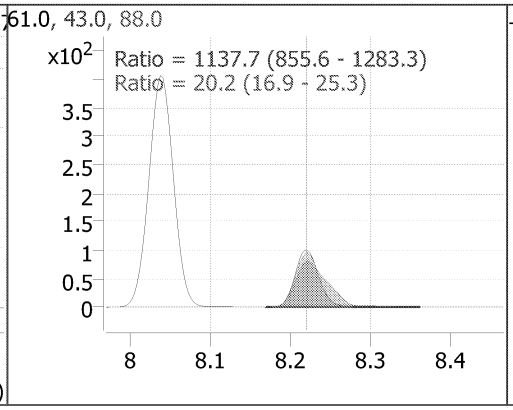


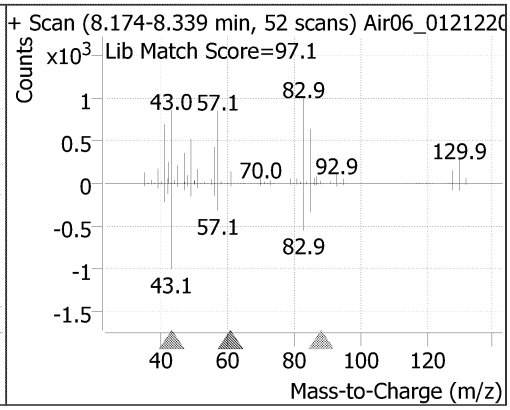



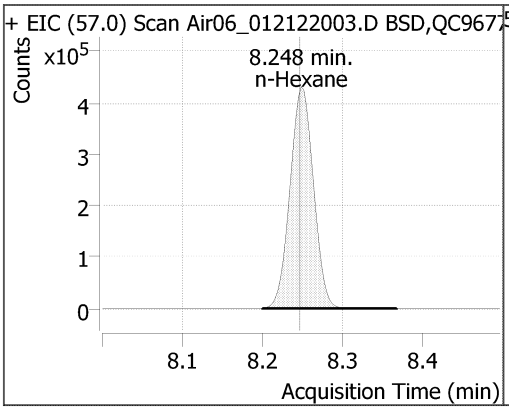

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 9.7104 | 8.22 | 0.00 | 187672 | 43.0 | 1137.7 | 855.6 | 1283.3 |
| | | | | | 88.0 | 20.2 | 16.9 | 25.3 |

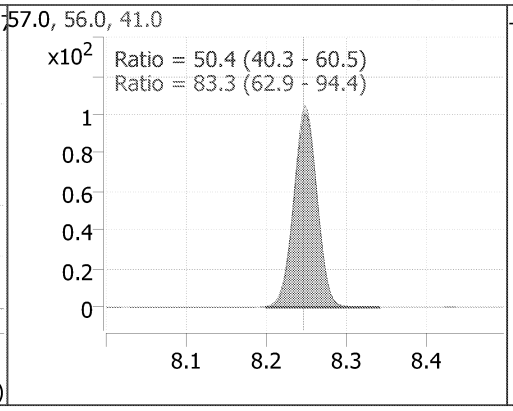


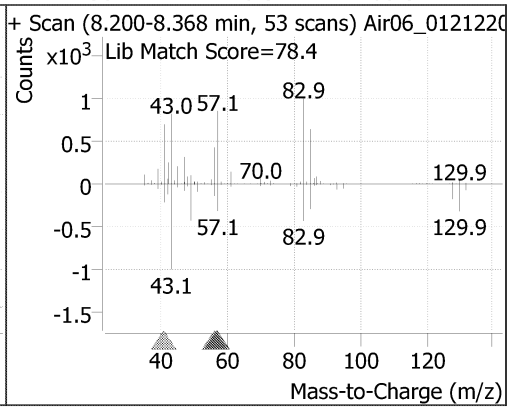



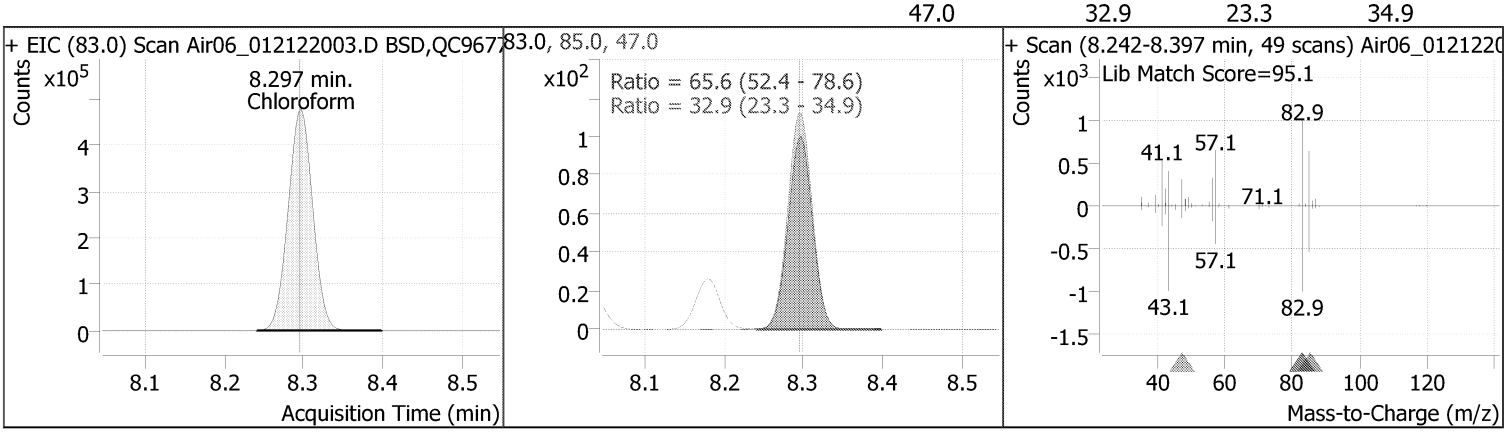

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 9.9231 | 8.25 | 0.00 | 880770 | 41.0 | 83.3 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.4 | 40.3 | 60.5 |



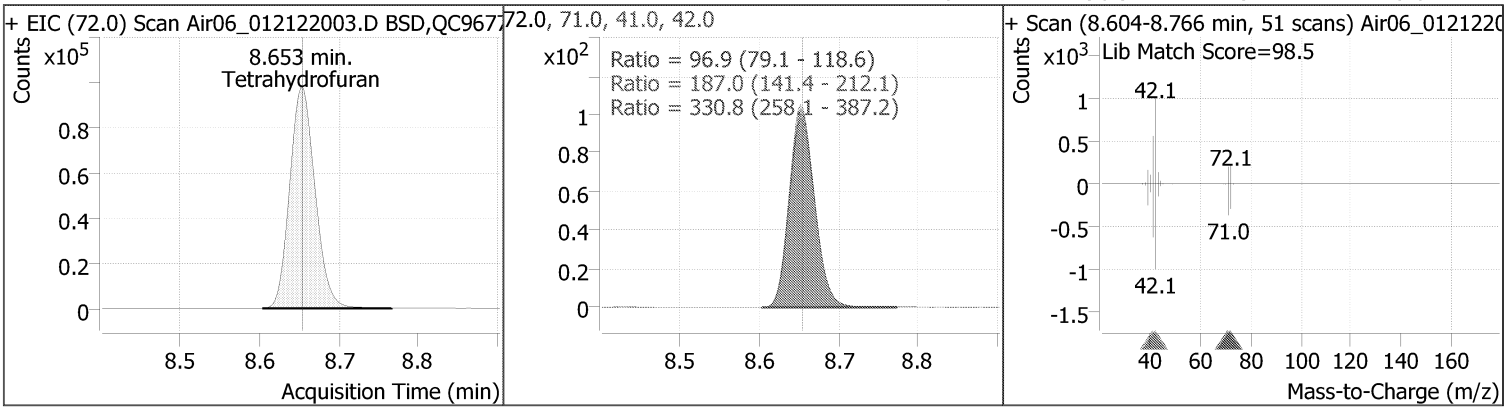



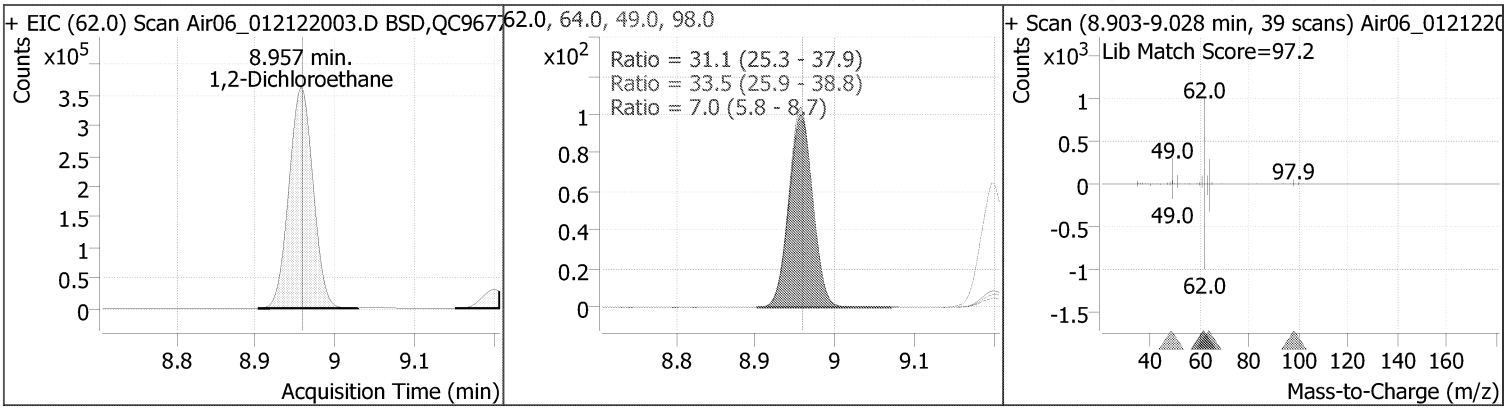
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 10.2490 | 8.30 | 0.00 | 1025810 | 85.0 | 65.6 | 52.4 | 78.6 |
| | | | | | 47.0 | 32.9 | 23.3 | 34.9 |



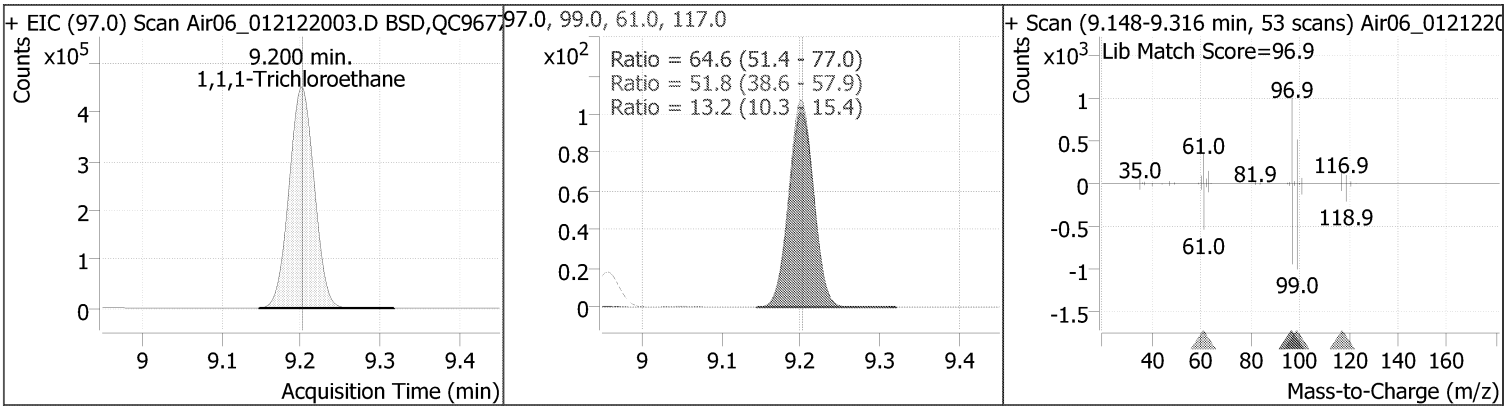

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 9.8598 | 8.65 | 0.00 | 217679 | 42.0 | 330.8 | 258.1 | 387.2 |
| | | | | | 41.0 | 187.0 | 141.4 | 212.1 |
| | | | | | 71.0 | 96.9 | 79.1 | 118.6 |



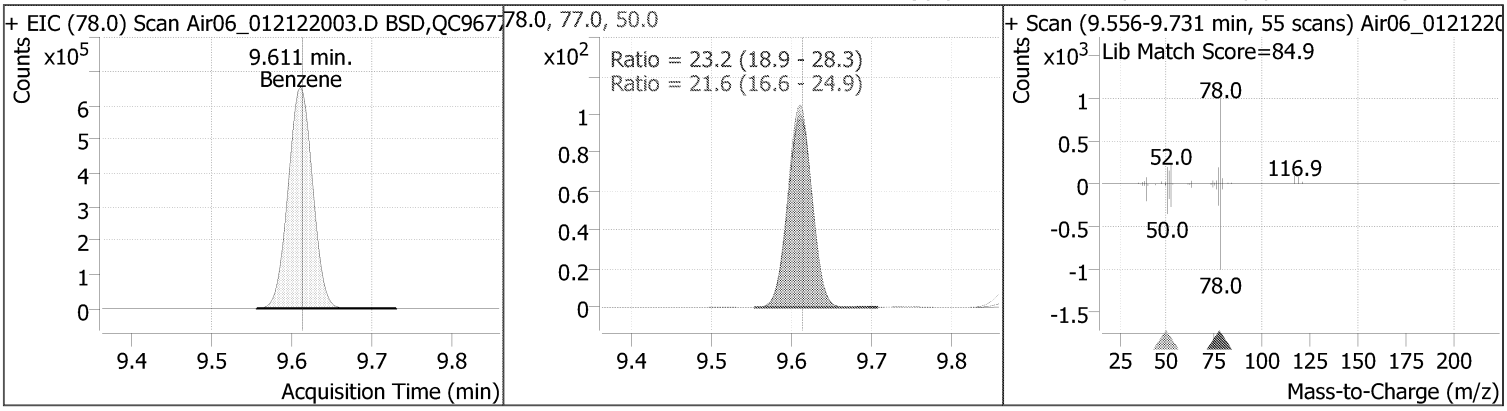

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 10.4481 | 8.96 | 0.00 | 765721 | 49.0 | 33.5 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.1 | 25.3 | 37.9 |
| | | | | | 98.0 | 7.0 | 5.8 | 8.7 |



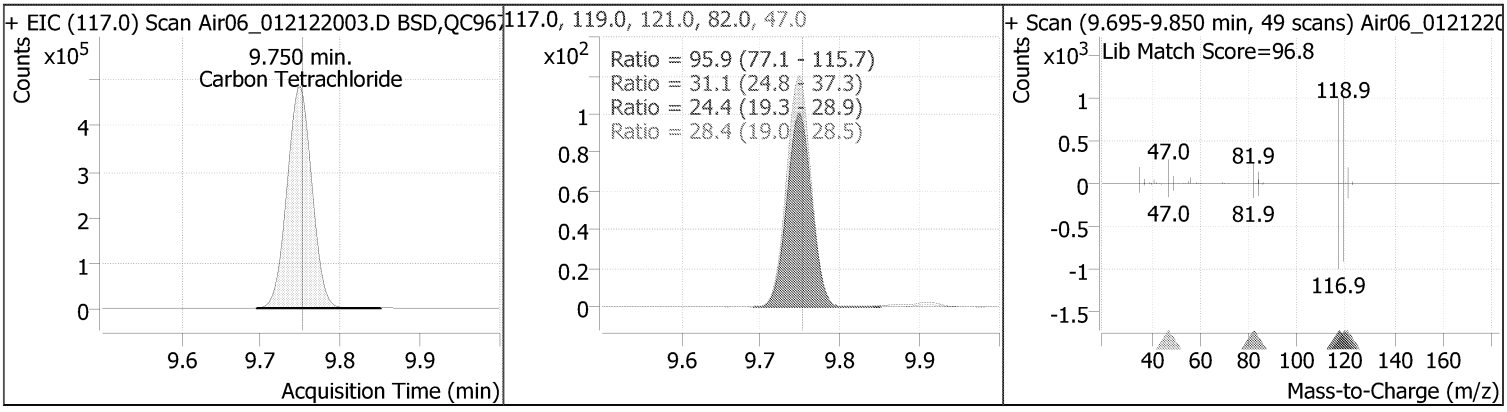
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 10.3010 | 9.20 | 0.00 | 997278 | 99.0 | 64.6 | 51.4 | 77.0 |
| | | | | | 61.0 | 51.8 | 38.6 | 57.9 |
| | | | | | 117.0 | 13.2 | 10.3 | 15.4 |



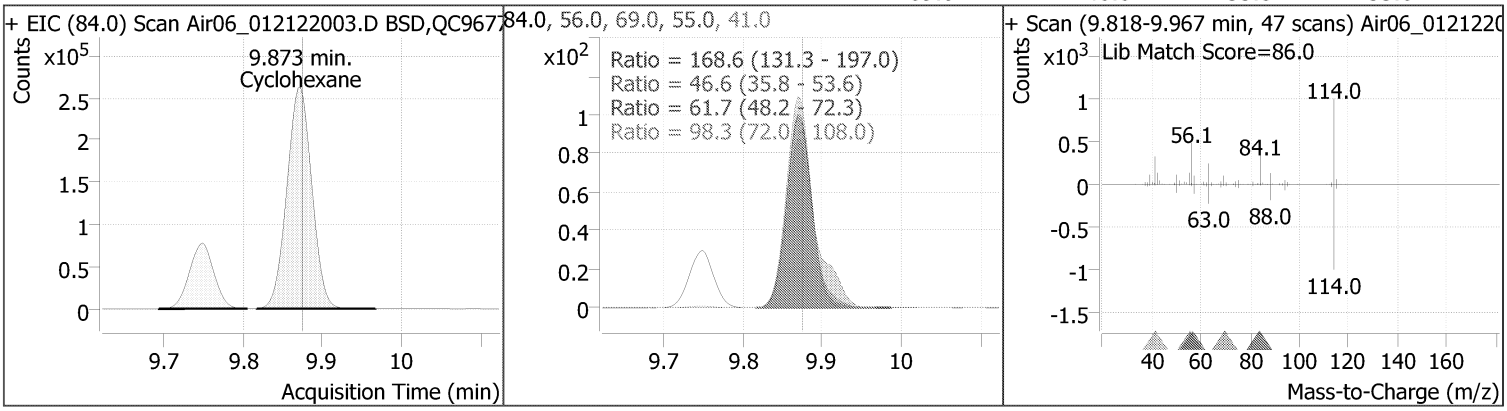

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 9.7143 | 9.61 | 0.00 | 1401626 | 77.0 | 23.2 | 18.9 | 28.3 |
| | | | | | 50.0 | 21.6 | 16.6 | 24.9 |



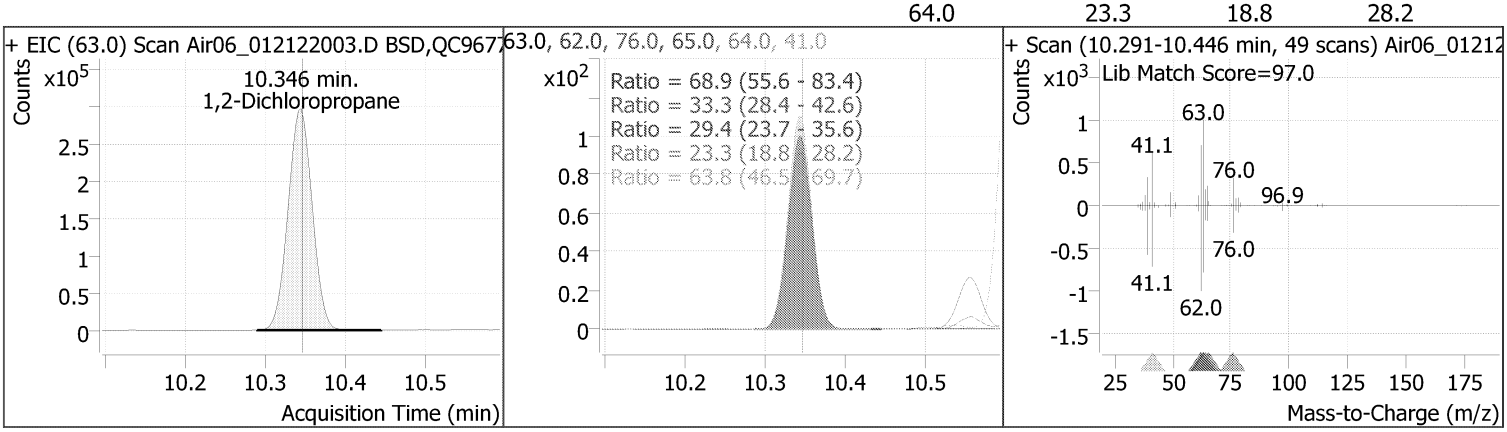

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 10.2471 | 9.75 | 0.00 | 1058377 | 119.0 | 95.9 | 77.1 | 115.7 |
| | | | | | 121.0 | 31.1 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.4 | 19.3 | 28.9 |
| | | | | | 47.0 | 28.4 | 19.0 | 28.5 |



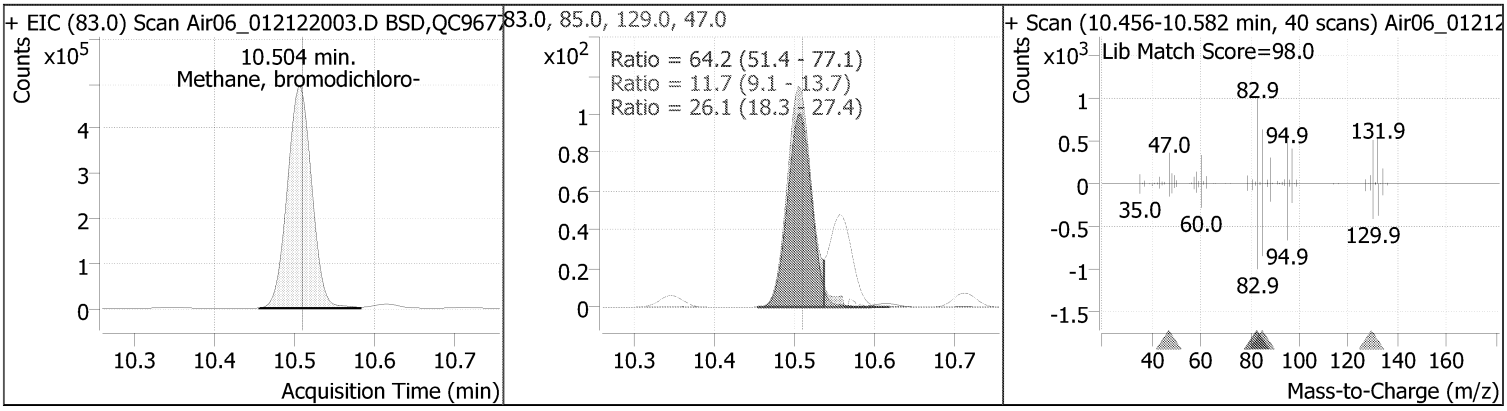
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 9.4951 | 9.87 | 0.00 | 572378 | 56.0 | 168.6 | 131.3 | 197.0 |
| | | | | | 41.0 | 98.3 | 72.0 | 108.0 |
| | | | | | 55.0 | 61.7 | 48.2 | 72.3 |
| | | | | | 69.0 | 46.6 | 35.8 | 53.6 |



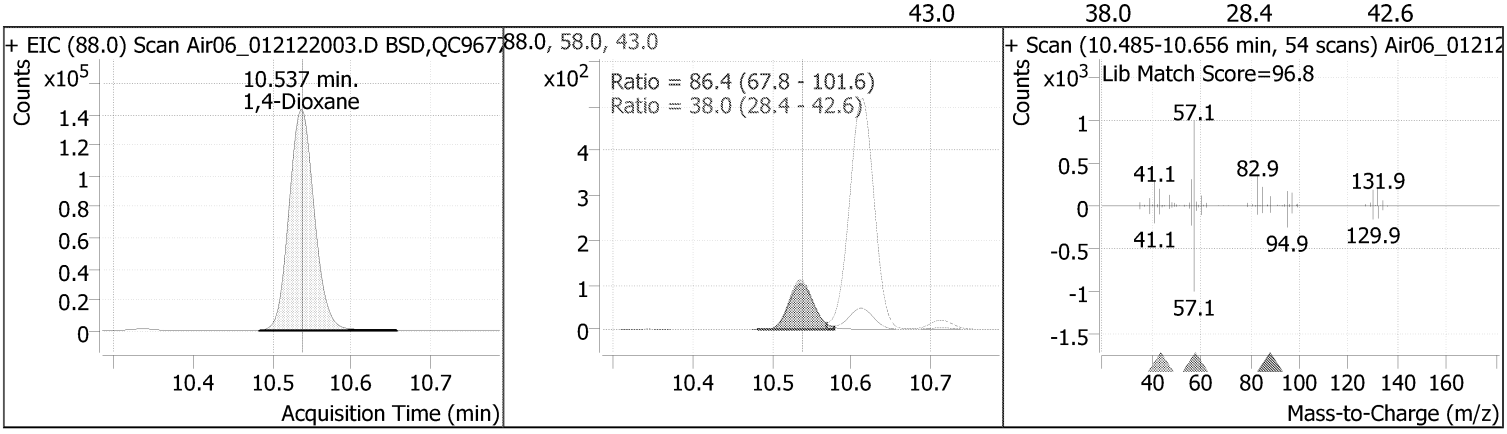

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 9.1869 | 10.35 | 0.00 | 628304 | 62.0 | 68.9 | 55.6 | 83.4 |
| | | | | | 41.0 | 63.8 | 46.5 | 69.7 |
| | | | | | 76.0 | 33.3 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.4 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.3 | 18.8 | 28.2 |



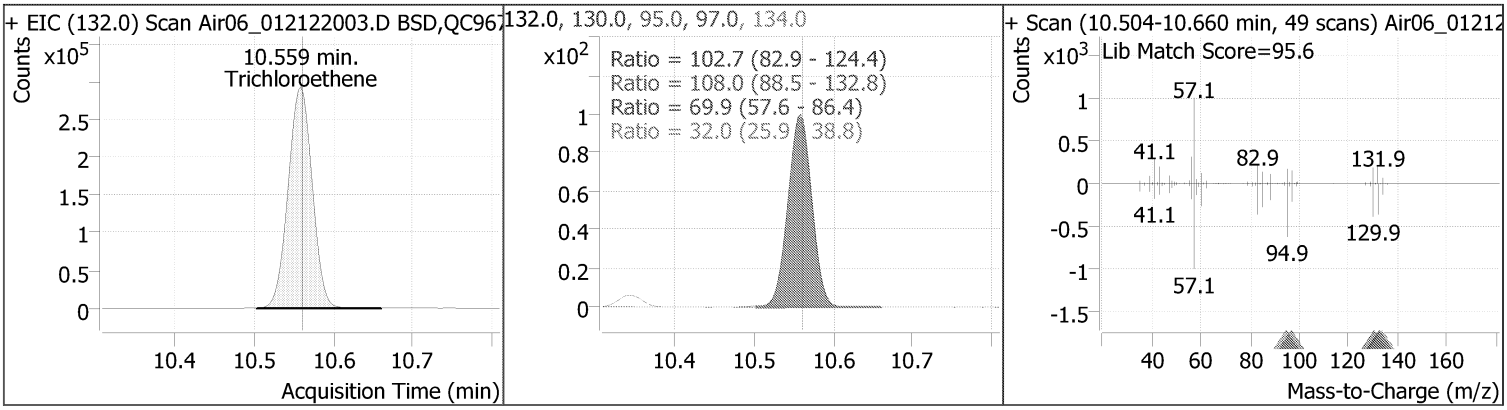

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 9.4413 | 10.50 | 0.00 | 1053599 | 85.0 | 64.2 | 51.4 | 77.1 |
| | | | | | 47.0 | 26.1 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.7 | 9.1 | 13.7 |



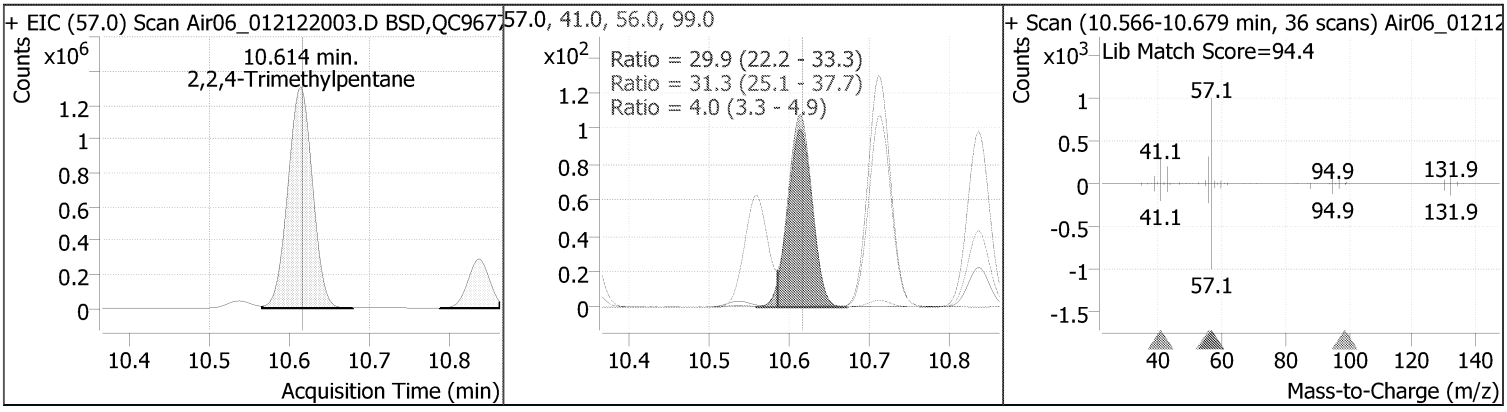
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 8.8742 | 10.54 | 0.00 | 316715 | 58.0 | 86.4 | 67.8 | 101.6 |
| | | | | | 43.0 | 38.0 | 28.4 | 42.6 |



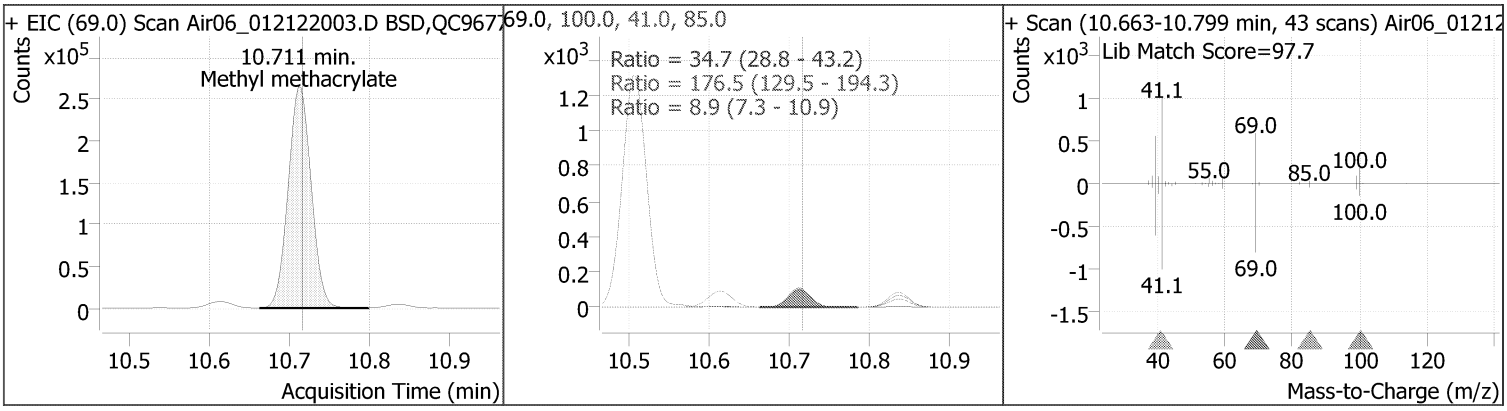

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 8.8322 | 10.56 | 0.00 | 614483 | 95.0 | 108.0 | 88.5 | 132.8 |
| | | | | | 130.0 | 102.7 | 82.9 | 124.4 |
| | | | | | 97.0 | 69.9 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.0 | 25.9 | 38.8 |



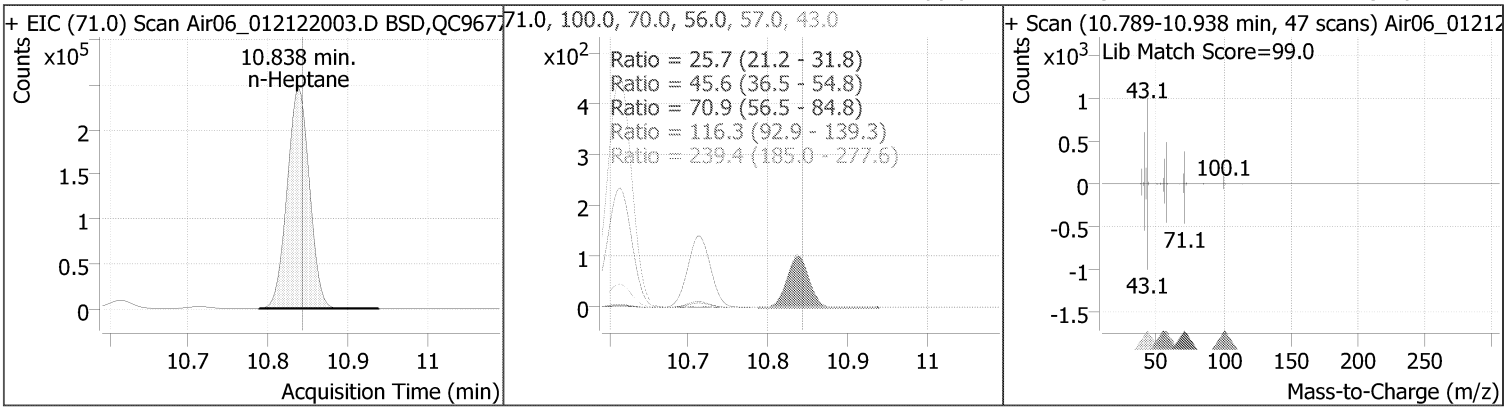

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 9.0394 | 10.61 | 0.00 | 2813536 | 56.0 | 31.3 | 25.1 | 37.7 |
| | | | | | 41.0 | 29.9 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.0 | 3.3 | 4.9 |



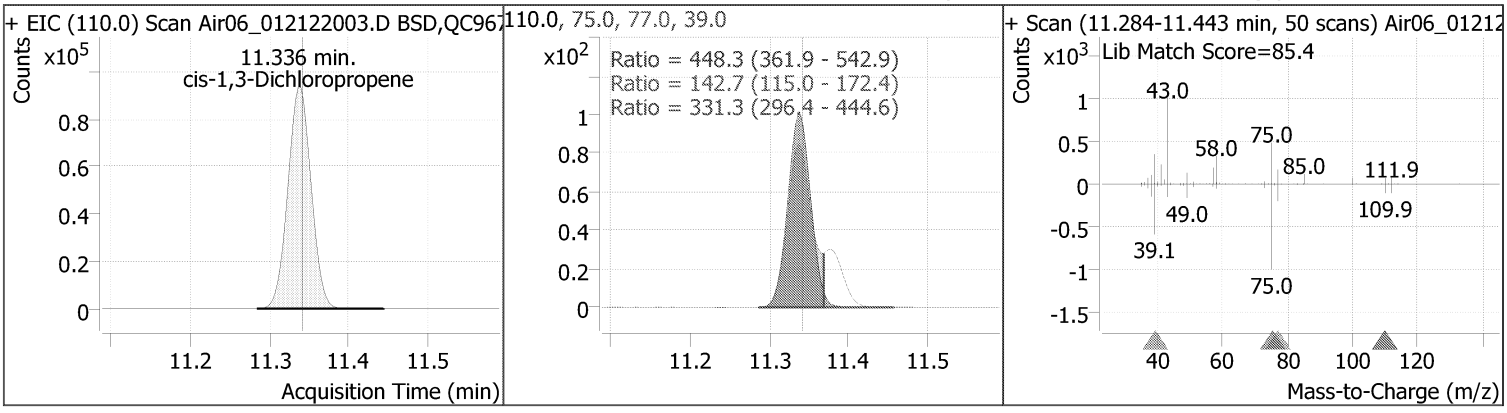
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 9.1833 | 10.71 | 0.00 | 533141 | 41.0 | 176.5 | 129.5 | 194.3 |
| | | | | | 100.0 | 34.7 | 28.8 | 43.2 |
| | | | | | 85.0 | 8.9 | 7.3 | 10.9 |



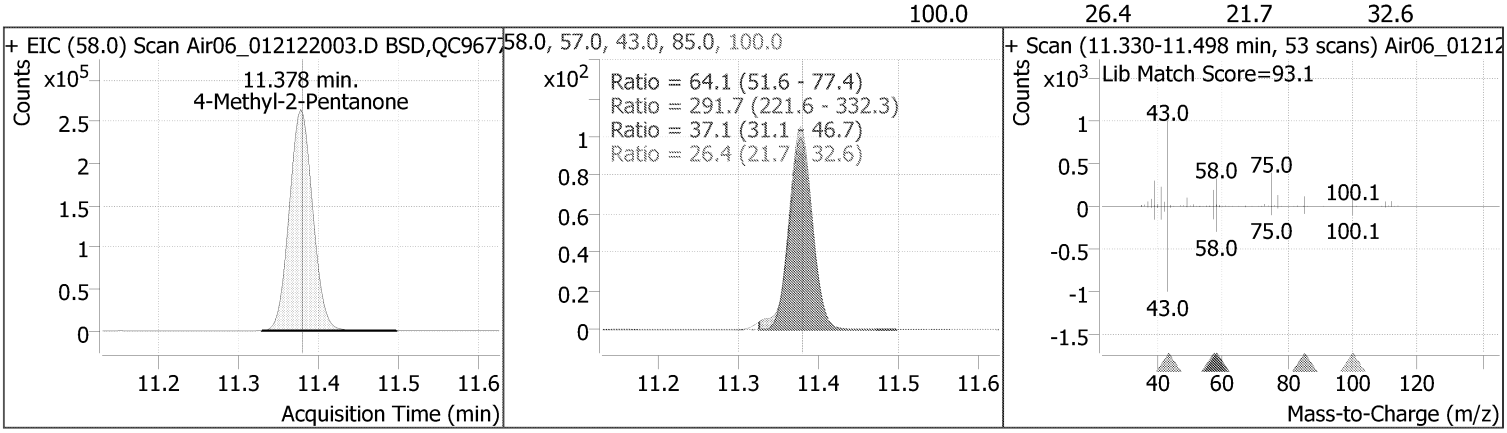

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 8.9403 | 10.84 | 0.00 | 480696 | 43.0 | 239.4 | 185.0 | 277.6 |
| | | | | | 57.0 | 116.3 | 92.9 | 139.3 |
| | | | | | 56.0 | 70.9 | 56.5 | 84.8 |
| | | | | | 70.0 | 45.6 | 36.5 | 54.8 |
| | | | | | 100.0 | 25.7 | 21.2 | 31.8 |



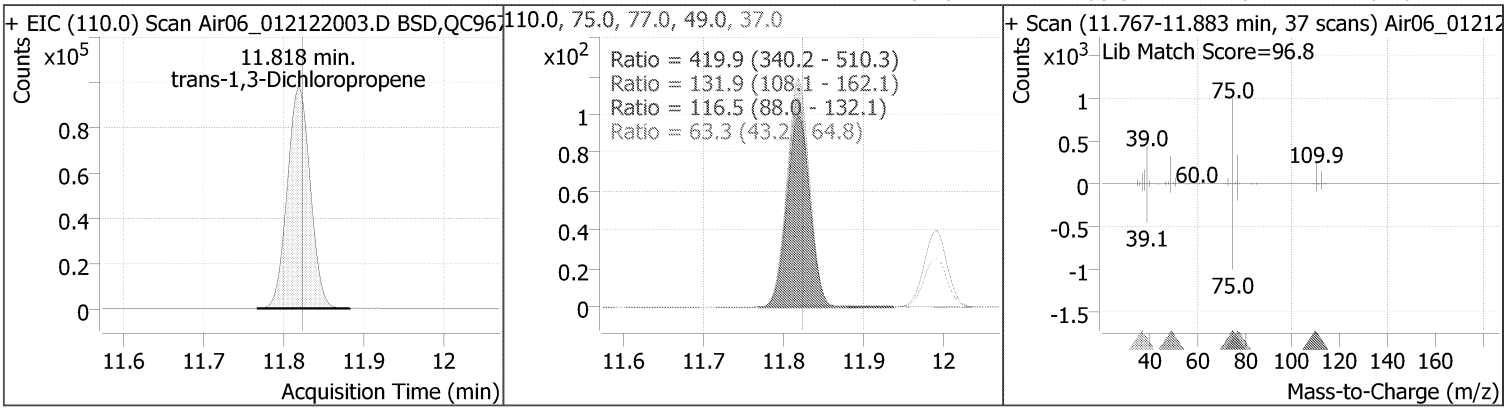

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 8.7586 | 11.34 | 0.00 | 190155 | 75.0 | 448.3 | 361.9 | 542.9 |
| | | | | | 39.0 | 331.3 | 296.4 | 444.6 |
| | | | | | 77.0 | 142.7 | 115.0 | 172.4 |



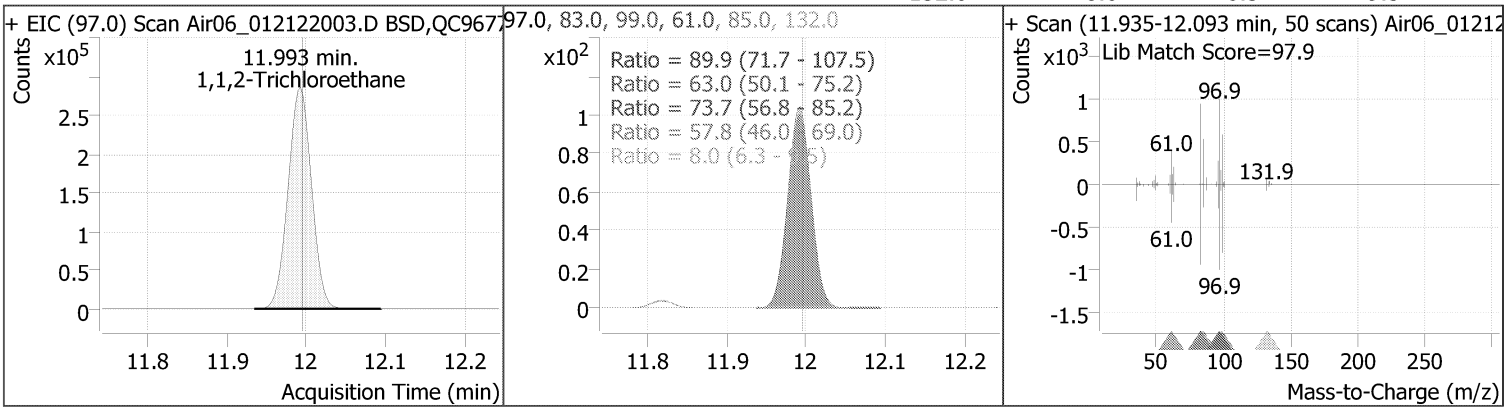
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 9.0391 | 11.38 | 0.00 | 542205 | 43.0 | 291.7 | 221.6 | 332.3 |
| | | | | | 57.0 | 64.1 | 51.6 | 77.4 |
| | | | | | 85.0 | 37.1 | 31.1 | 46.7 |
| | | | | | 100.0 | 26.4 | 21.7 | 32.6 |



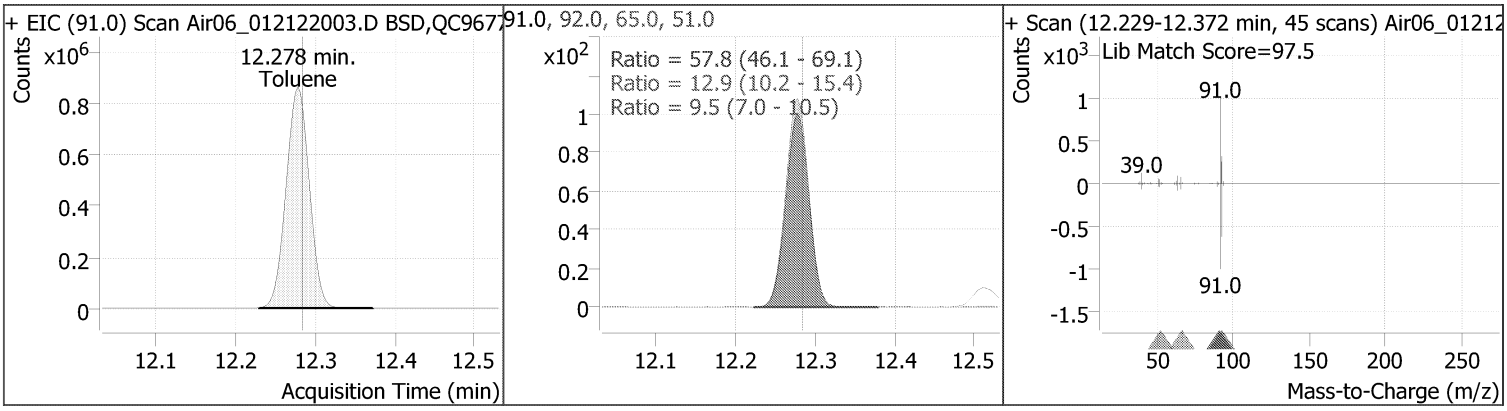

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 8.8662 | 11.82 | 0.00 | 197359 | 75.0 | 419.9 | 340.2 | 510.3 |
| | | | | | 77.0 | 131.9 | 108.1 | 162.1 |
| | | | | | 49.0 | 116.5 | 88.0 | 132.1 |
| | | | | | 37.0 | 63.3 | 43.2 | 64.8 |



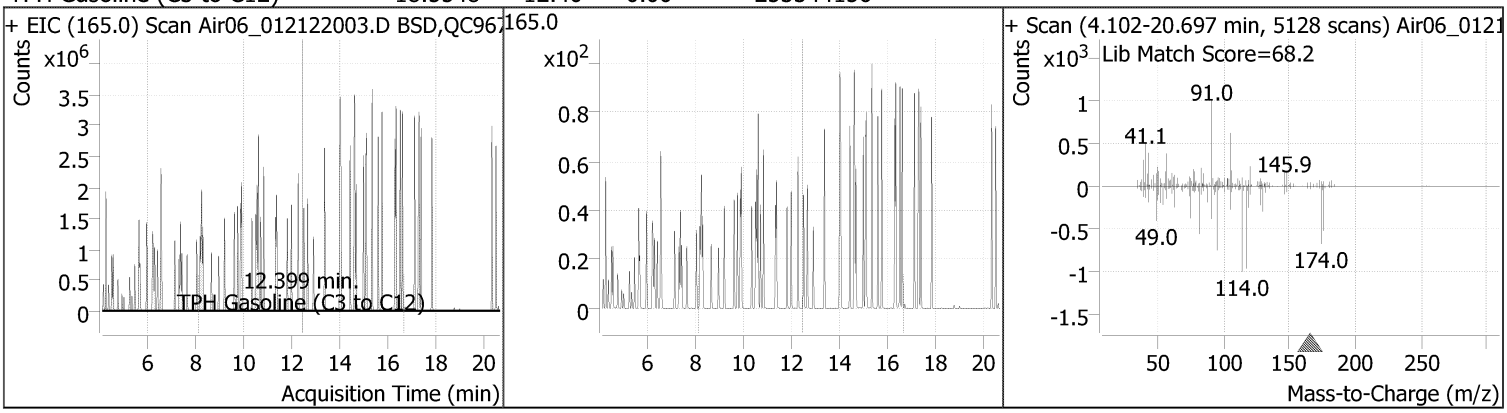

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 9.0410 | 11.99 | 0.00 | 588843 | 83.0 | 89.9 | 71.7 | 107.5 |
| | | | | | 61.0 | 73.7 | 56.8 | 85.2 |
| | | | | | 99.0 | 63.0 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.8 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.0 | 6.3 | 9.5 |



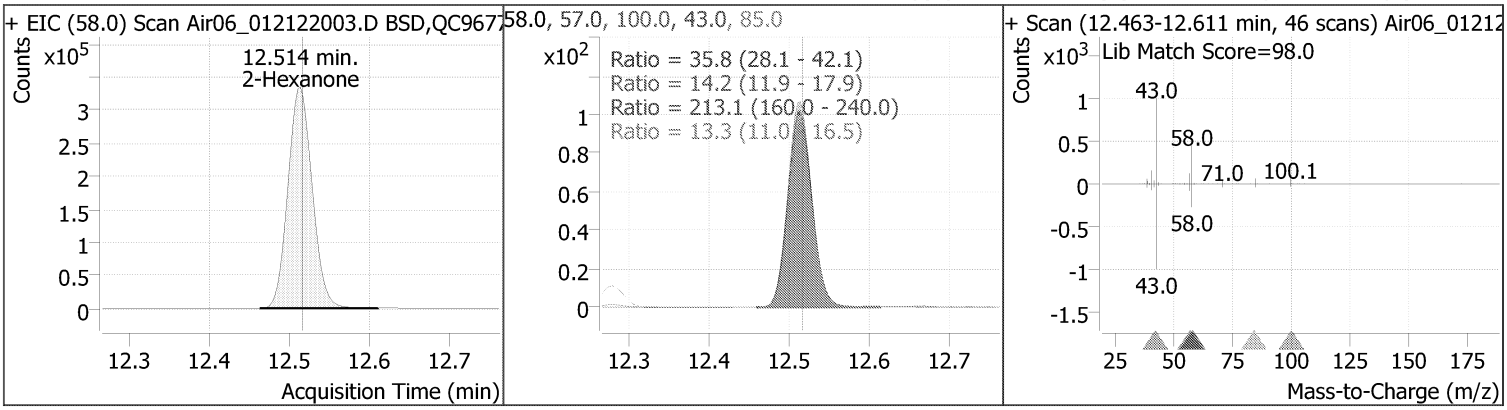
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 8.8553 | 12.28 | 0.00 | 1752514 | 92.0 | 57.8 | 46.1 | 69.1 |
| | | | | | 65.0 | 12.9 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.5 | 7.0 | 10.5 |



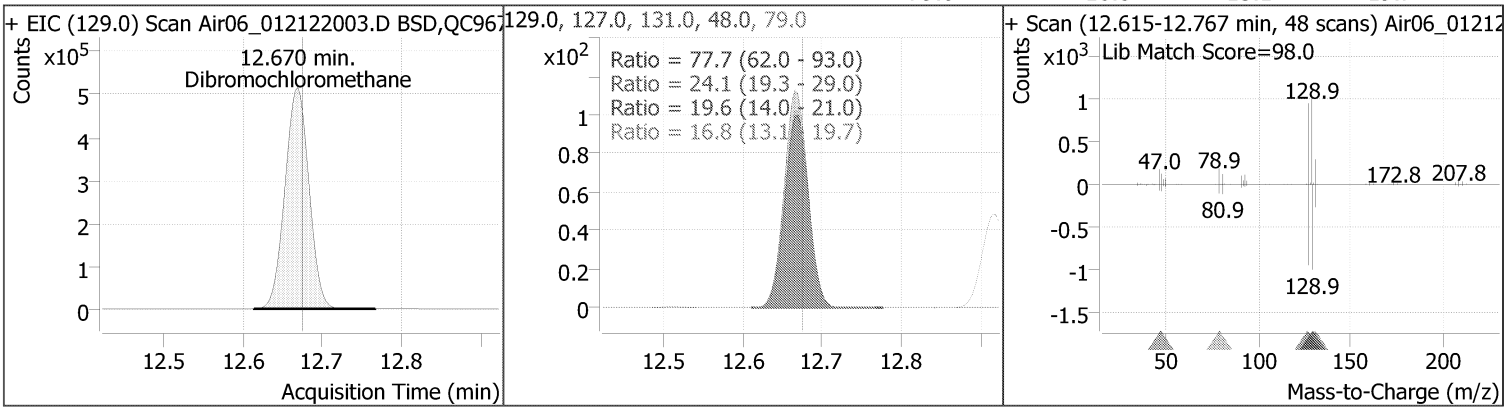

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 18.5548 | 12.40 | 0.00 | 253344156 | | | | |



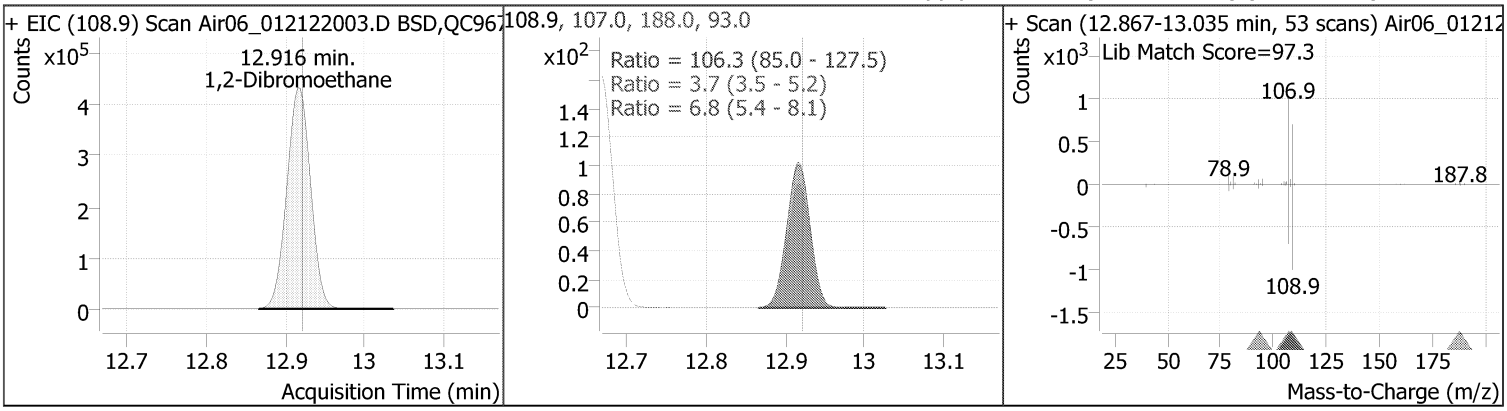

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 9.2268 | 12.51 | 0.00 | 710867 | 43.0 | 213.1 | 160.0 | 240.0 |
| | | | | | 57.0 | 35.8 | 28.1 | 42.1 |
| | | | | | 100.0 | 14.2 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.3 | 11.0 | 16.5 |



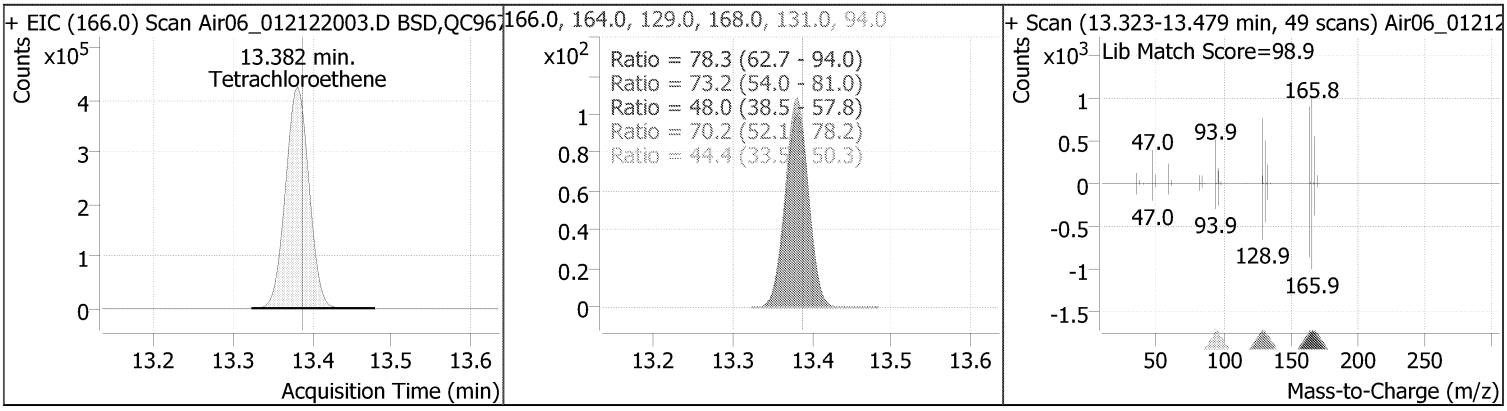
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 9.1919 | 12.67 | 0.00 | 1086833 | 127.0 | 77.7 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.1 | 19.3 | 29.0 |
| | | | | | 48.0 | 19.6 | 14.0 | 21.0 |
| | | | | | 79.0 | 16.8 | 13.1 | 19.7 |



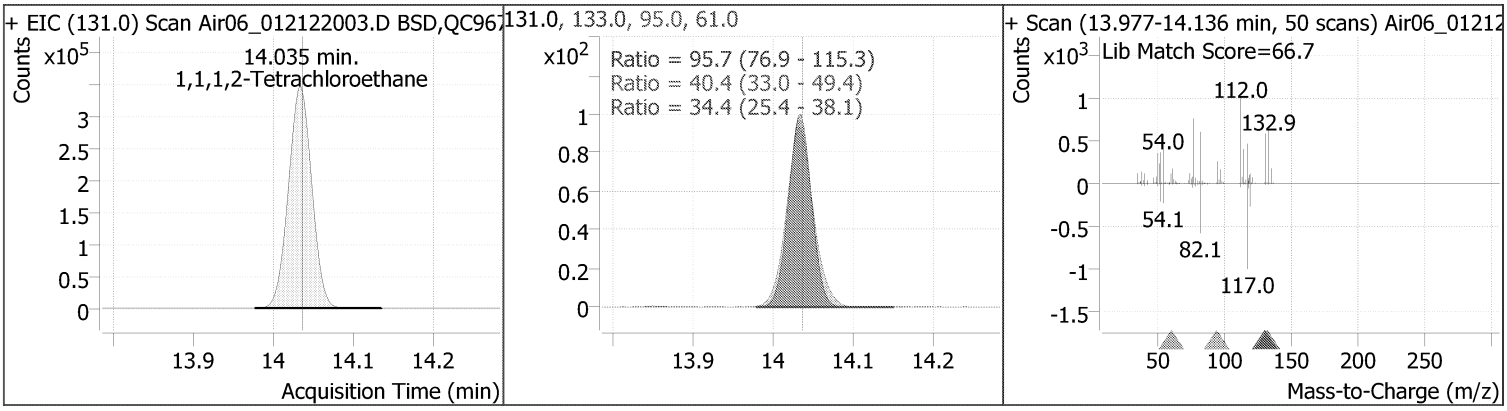

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 9.0569 | 12.92 | 0.00 | 907503 | 107.0 | 106.3 | 85.0 | 127.5 |
| | | | | | 93.0 | 6.8 | 5.4 | 8.1 |
| | | | | | 188.0 | 3.7 | 3.5 | 5.2 |



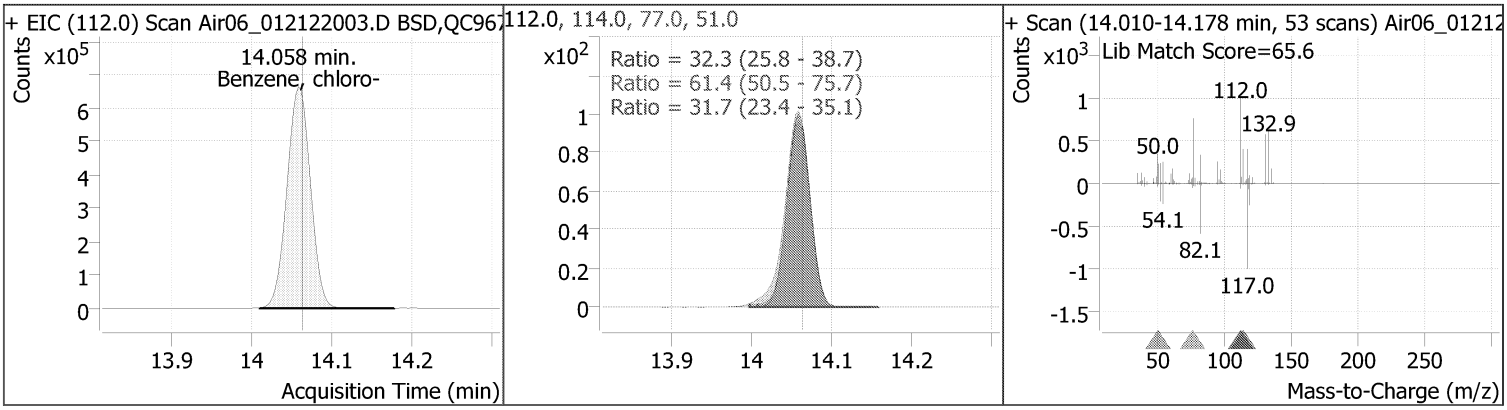

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 8.5070 | 13.38 | 0.00 | 870419 | 164.0 | 78.3 | 62.7 | 94.0 |
| | | | | | 129.0 | 73.2 | 54.0 | 81.0 |
| | | | | | 131.0 | 70.2 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.0 | 38.5 | 57.8 |
| | | | | | 94.0 | 44.4 | 33.5 | 50.3 |



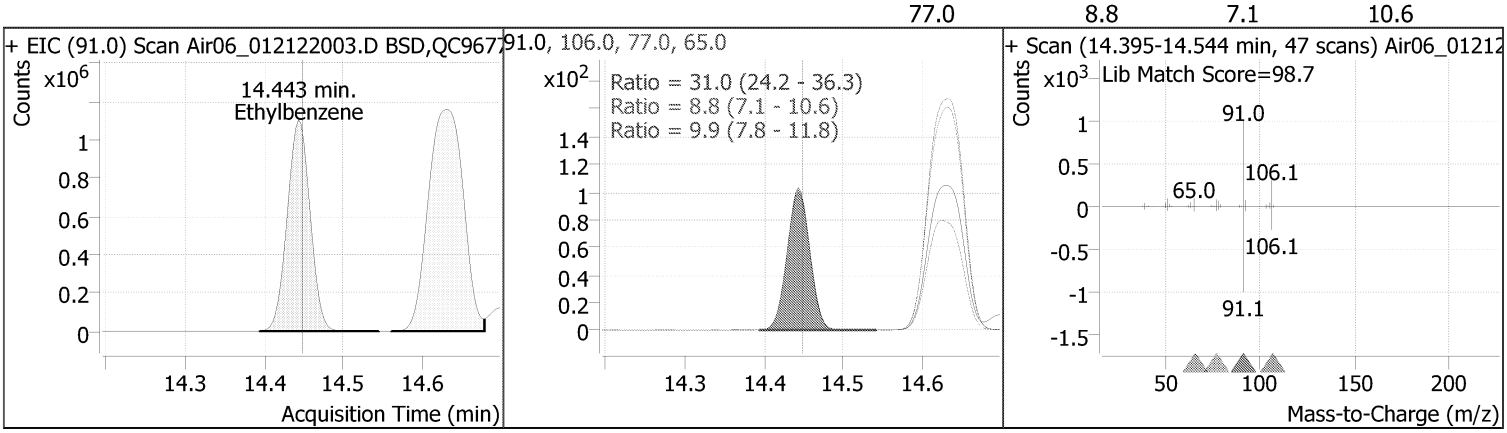
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 9.6621 | 14.04 | 0.00 | 706751 | 133.0 | 95.7 | 76.9 | 115.3 |
| | | | | | 95.0 | 40.4 | 33.0 | 49.4 |
| | | | | | 61.0 | 34.4 | 25.4 | 38.1 |



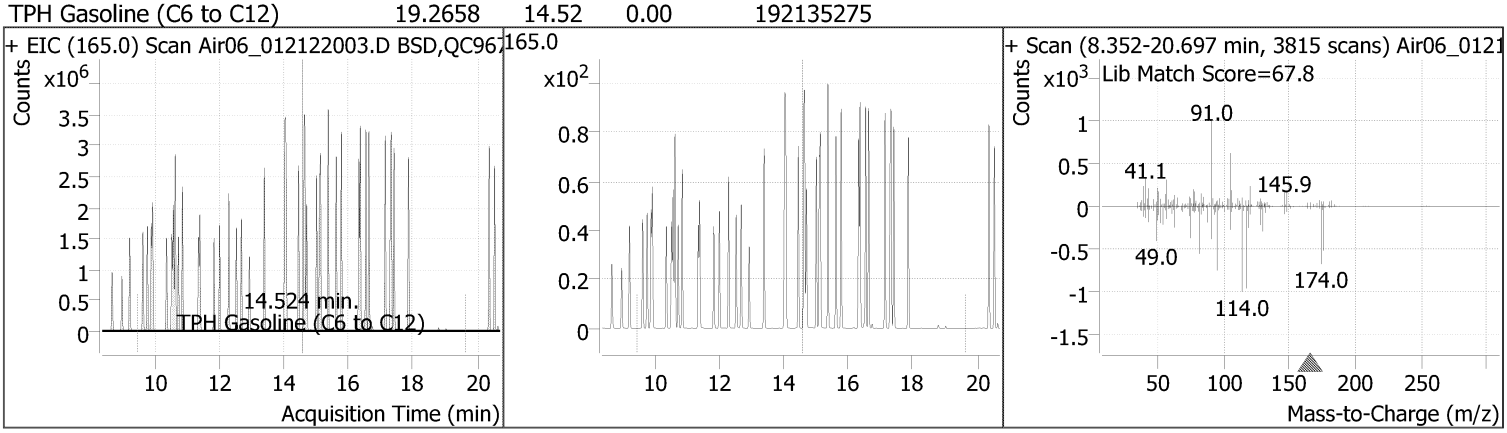

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 9.3565 | 14.06 | 0.00 | 1358124 | 77.0 | 61.4 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.3 | 25.8 | 38.7 |
| | | | | | 51.0 | 31.7 | 23.4 | 35.1 |



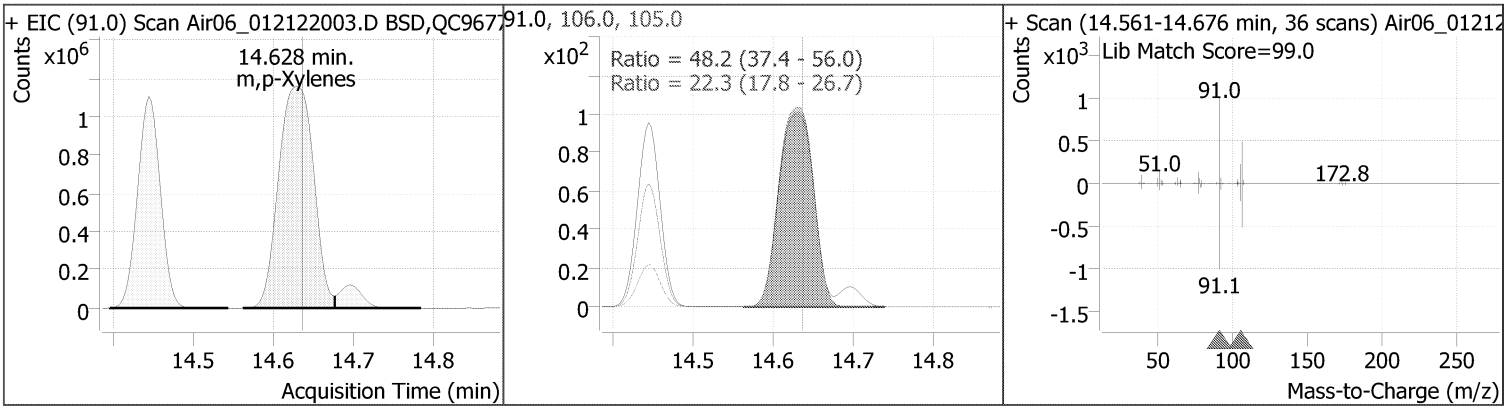

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 9.5627 | 14.44 | 0.00 | 2205226 | 106.0 | 31.0 | 24.2 | 36.3 |
| | | | | | 65.0 | 9.9 | 7.8 | 11.8 |
| | | | | | 77.0 | 8.8 | 7.1 | 10.6 |



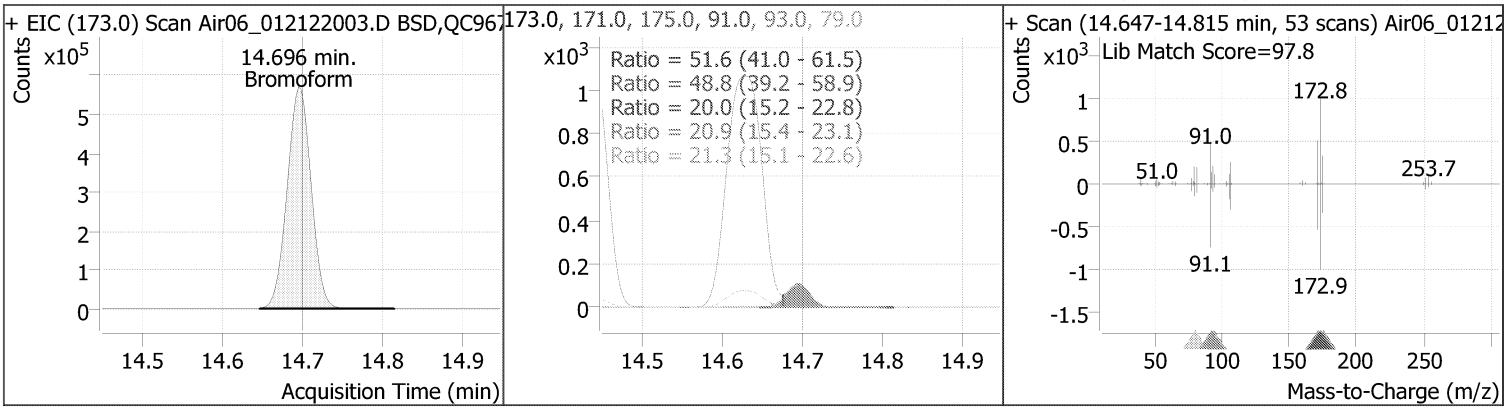
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 19.2658 | 14.52 | 0.00 | 192135275 | | | | |



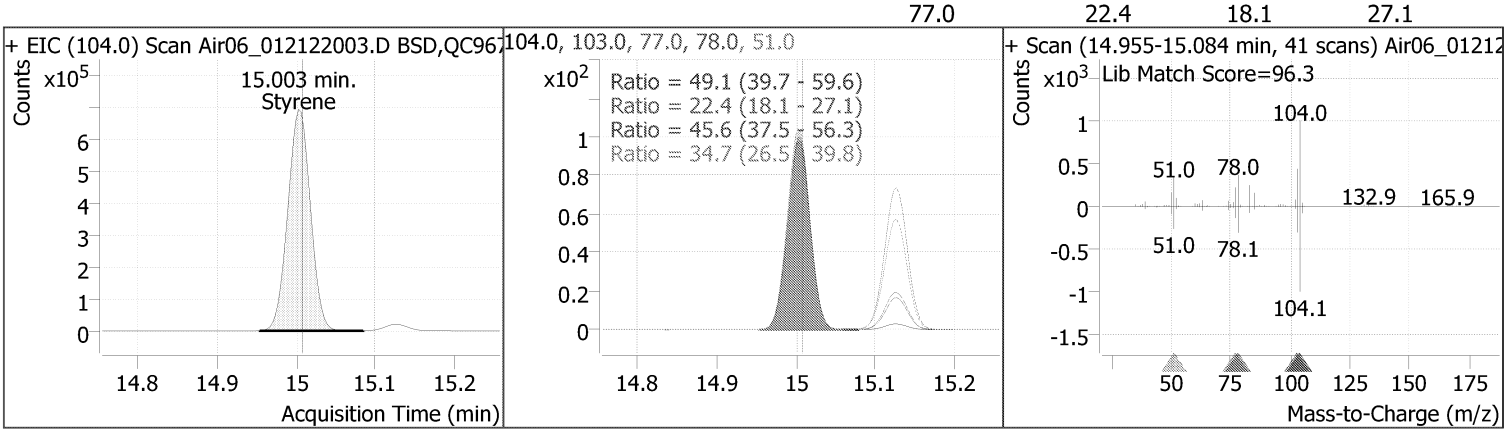

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 19.1051 | 14.63 | -0.01 | 3543302 | 106.0 | 48.2 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.3 | 17.8 | 26.7 |



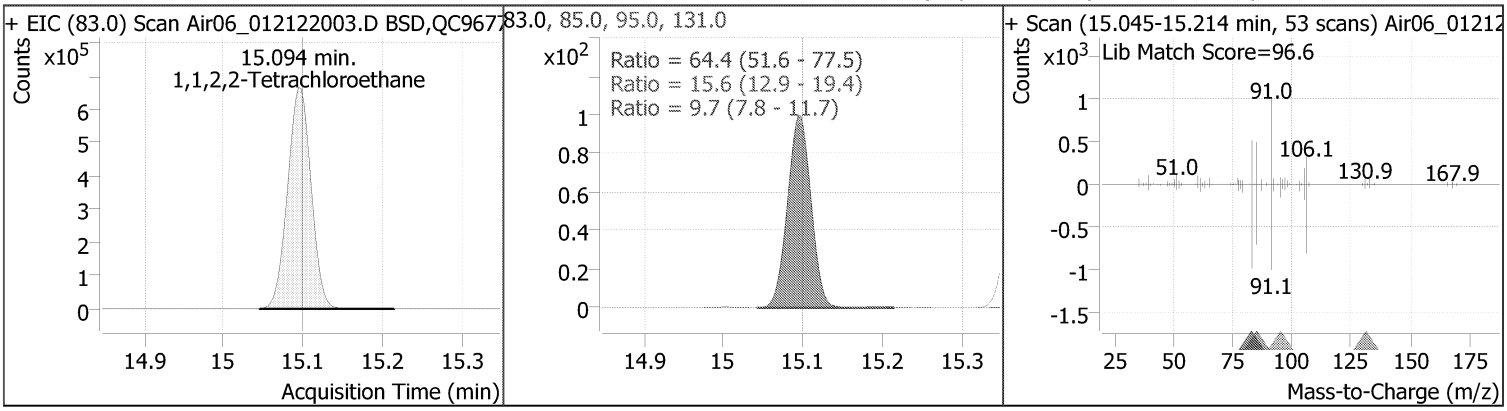

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 9.3667 | 14.70 | 0.00 | 1189836 | 171.0 | 51.6 | 41.0 | 61.5 |
| | | | | | 175.0 | 48.8 | 39.2 | 58.9 |
| | | | | | 93.0 | 20.9 | 15.4 | 23.1 |
| | | | | | 91.0 | 20.0 | 15.2 | 22.8 |
| | | | | | 79.0 | 21.3 | 15.1 | 22.6 |



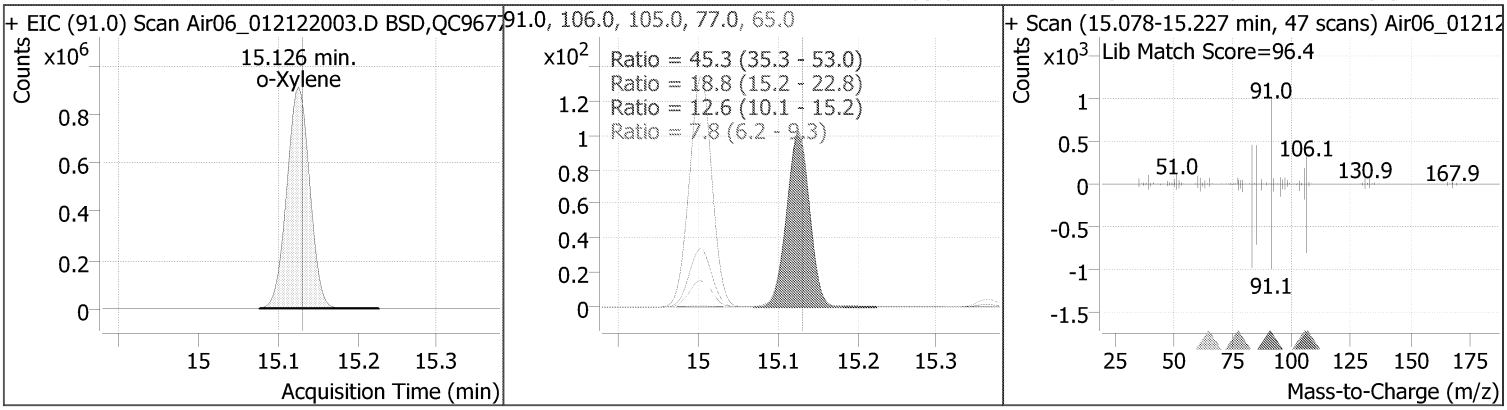
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 9.2975 | 15.00 | 0.00 | 1366491 | 103.0 | 49.1 | 39.7 | 59.6 |
| | | | | | 78.0 | 45.6 | 37.5 | 56.3 |
| | | | | | 51.0 | 34.7 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.4 | 18.1 | 27.1 |



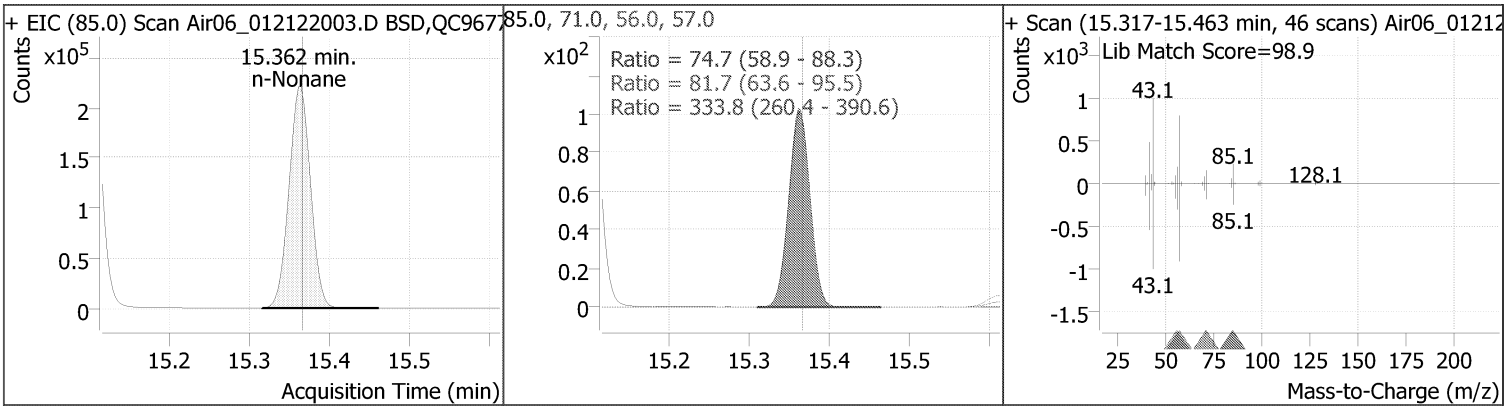

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 9.7521 | 15.09 | 0.00 | 1366749 | 85.0 | 64.4 | 51.6 | 77.5 |
| | | | | | 95.0 | 15.6 | 12.9 | 19.4 |
| | | | | | 131.0 | 9.7 | 7.8 | 11.7 |



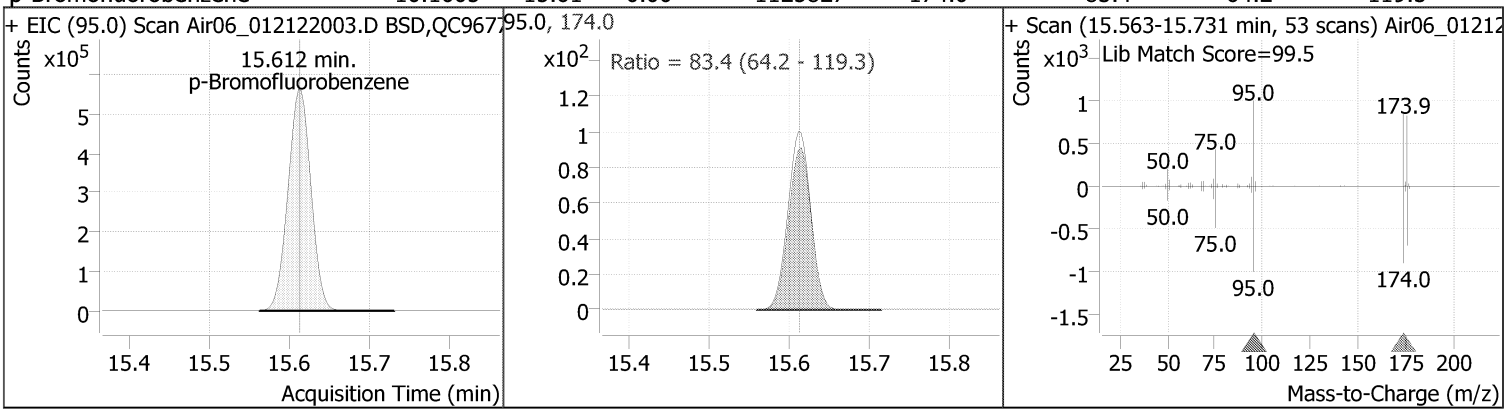

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 9.5654 | 15.13 | 0.00 | 1823909 | 106.0 | 45.3 | 35.3 | 53.0 |
| | | | | | 105.0 | 18.8 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.6 | 10.1 | 15.2 |
| | | | | | 65.0 | 7.8 | 6.2 | 9.3 |



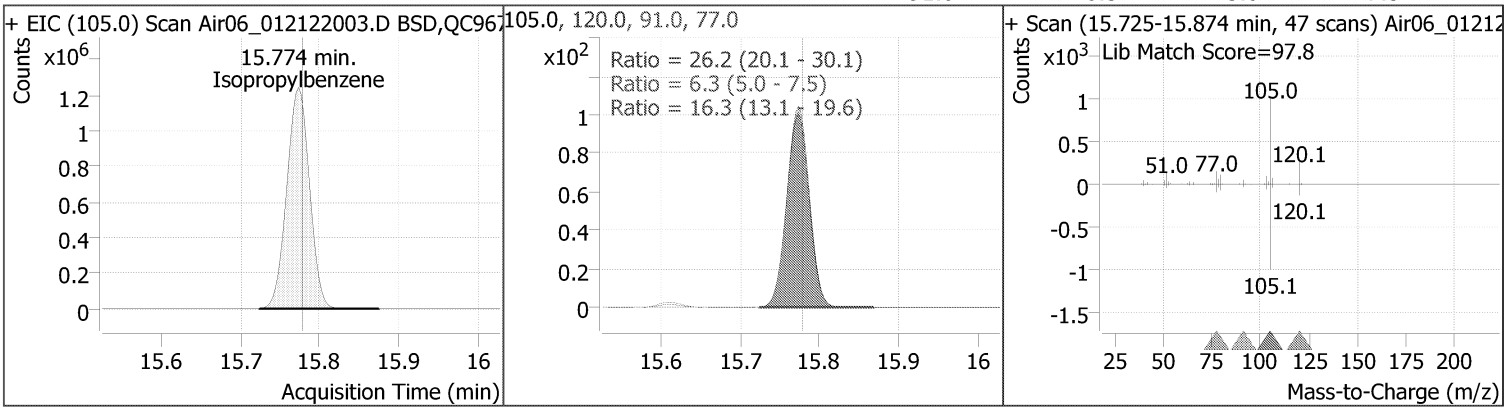
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 9.4252 | 15.36 | 0.00 | 415199 | 57.0 | 333.8 | 260.4 | 390.6 |
| | | | | | 56.0 | 81.7 | 63.6 | 95.5 |
| | | | | | 71.0 | 74.7 | 58.9 | 88.3 |



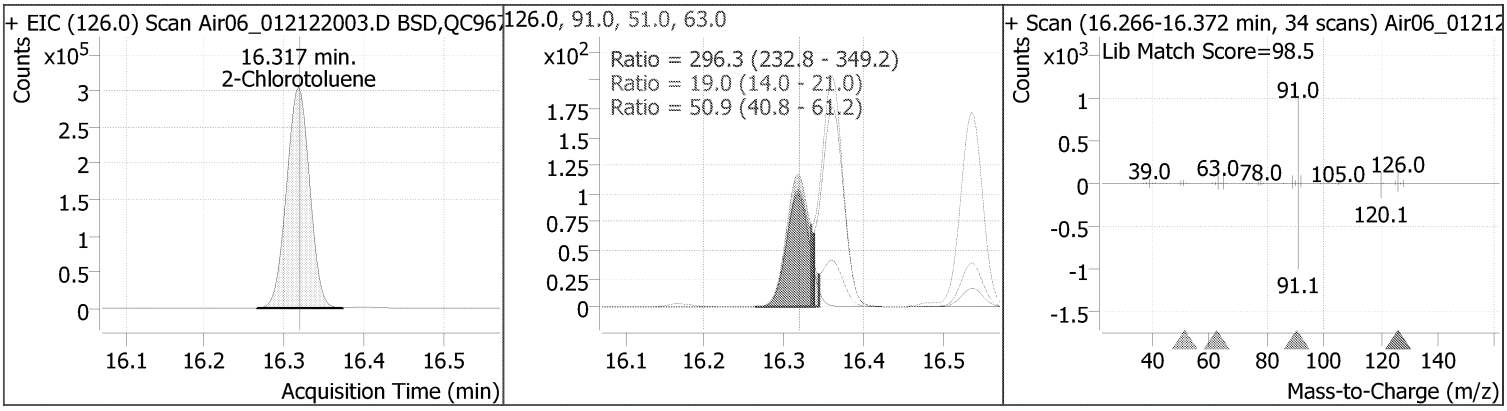

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.1005 | 15.61 | 0.00 | 1125827 | 174.0 | 83.4 | 64.2 | 119.3 |



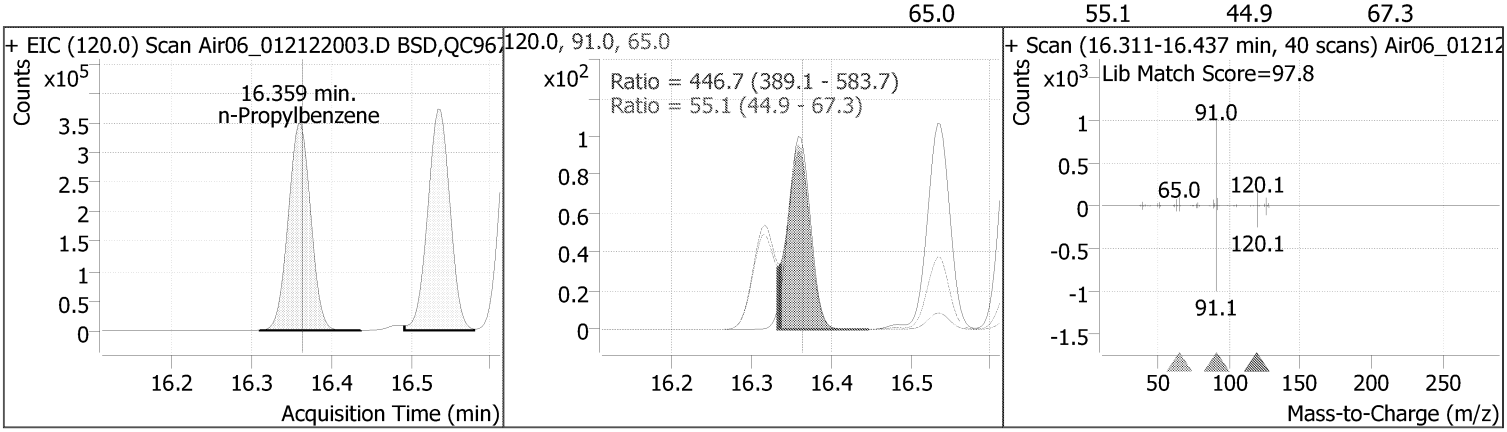

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 9.4191 | 15.77 | 0.00 | 2461991 | 120.0 | 26.2 | 20.1 | 30.1 |
| | | | | | 77.0 | 16.3 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.3 | 5.0 | 7.5 |



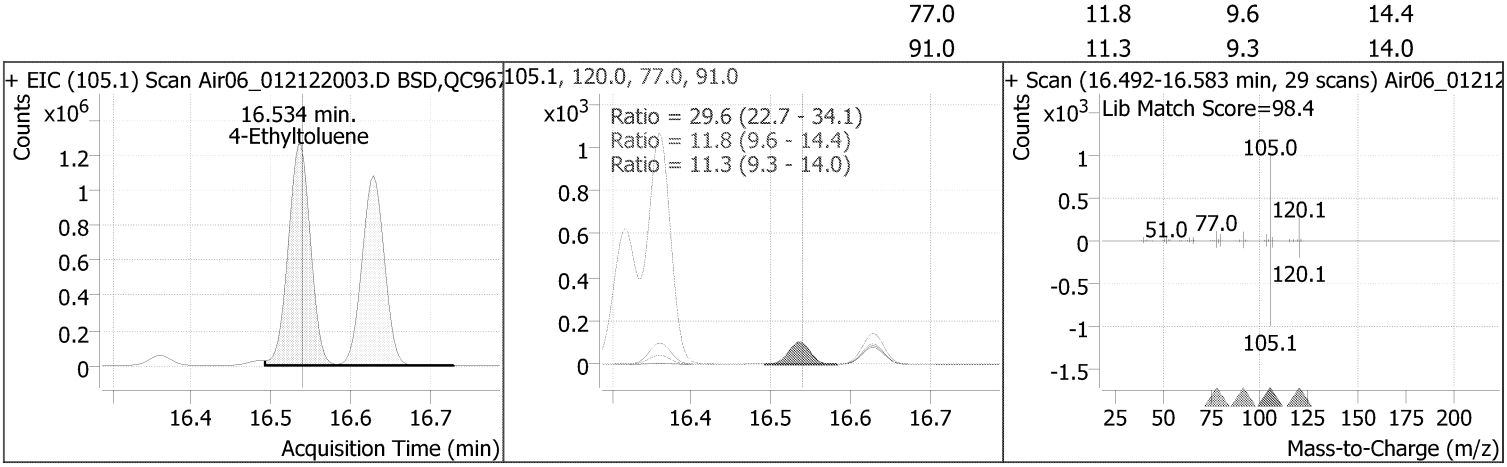
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 9.2230 | 16.32 | 0.00 | 614014 | 91.0 | 296.3 | 232.8 | 349.2 |
| | | | | | 63.0 | 50.9 | 40.8 | 61.2 |
| | | | | | 51.0 | 19.0 | 14.0 | 21.0 |



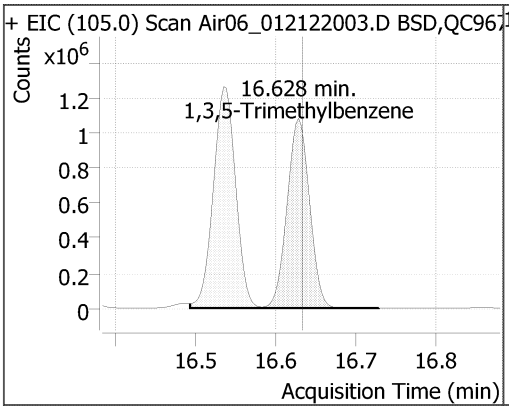

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 9.4119 | 16.36 | 0.00 | 687358 | 91.0 | 446.7 | 389.1 | 583.7 |
| | | | | | 65.0 | 55.1 | 44.9 | 67.3 |

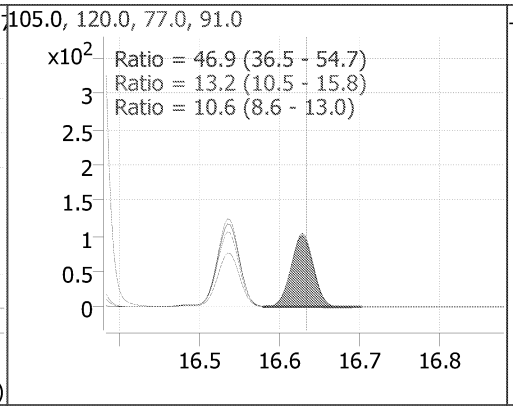


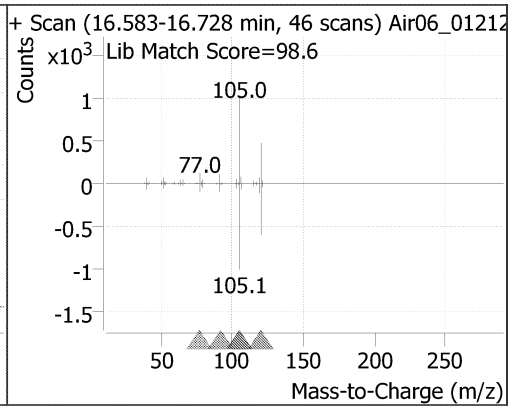

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 9.5135 | 16.53 | 0.00 | 2460796 | 120.0 | 29.6 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.8 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.3 | 9.3 | 14.0 |



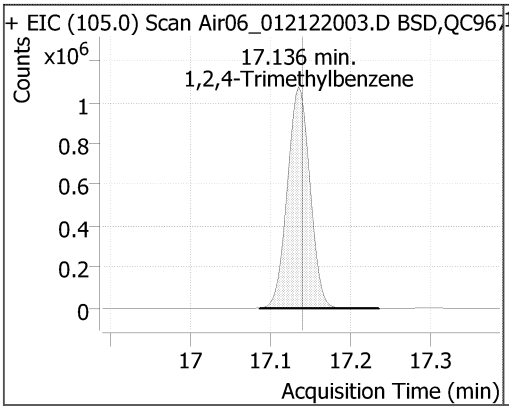
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 9.4965 | 16.63 | 0.00 | 2126429 | 120.0 | 46.9 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.2 | 10.5 | 15.8 |
| | | | | | 91.0 | 10.6 | 8.6 | 13.0 |

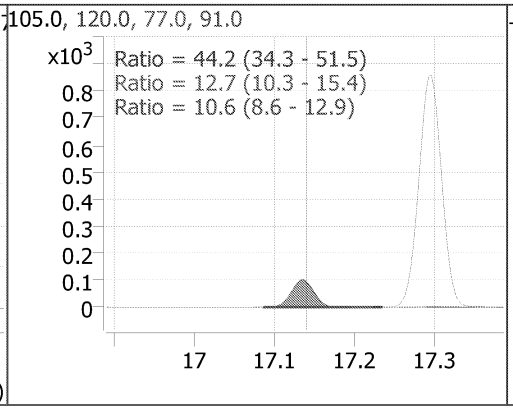


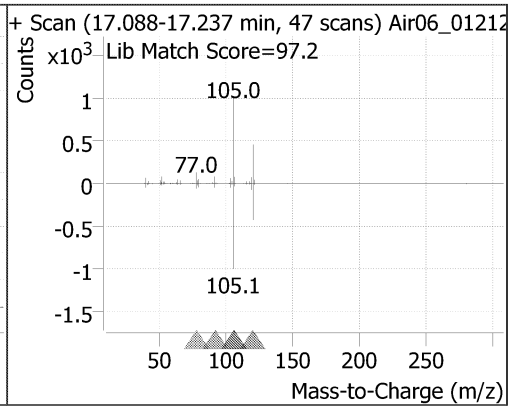



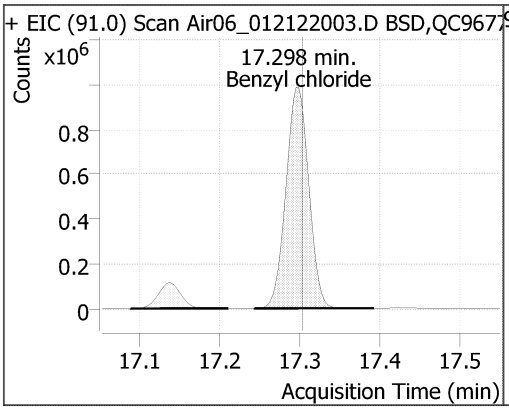

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 9.5261 | 17.14 | 0.00 | 2118603 | 120.0 | 44.2 | 34.3 | 51.5 |
| | | | | | 77.0 | 12.7 | 10.3 | 15.4 |
| | | | | | 91.0 | 10.6 | 8.6 | 12.9 |

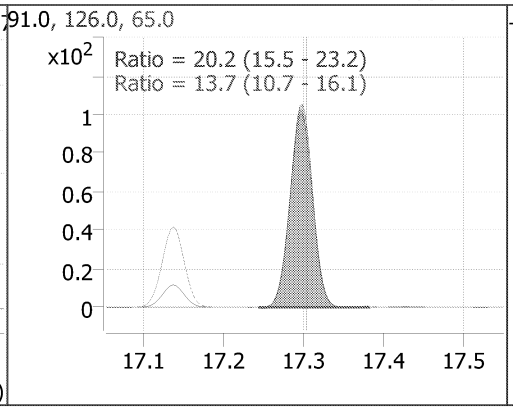


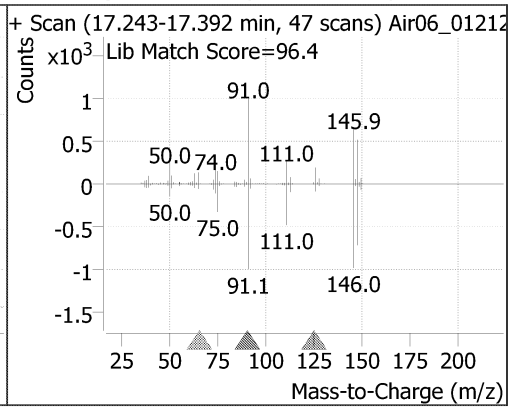



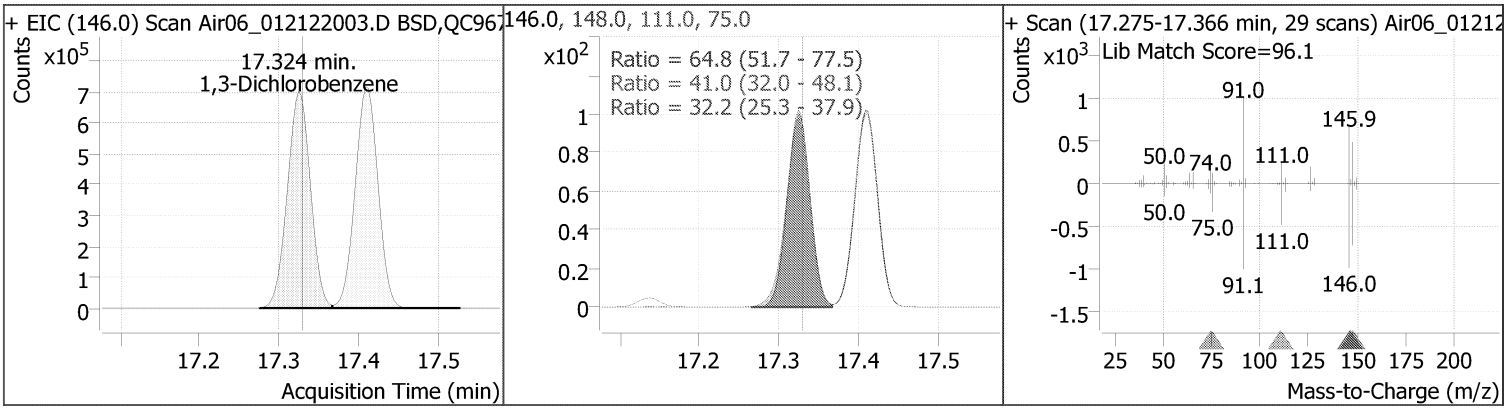

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 10.0479 | 17.30 | 0.00 | 1964899 | 126.0 | 20.2 | 15.5 | 23.2 |
| | | | | | 65.0 | 13.7 | 10.7 | 16.1 |



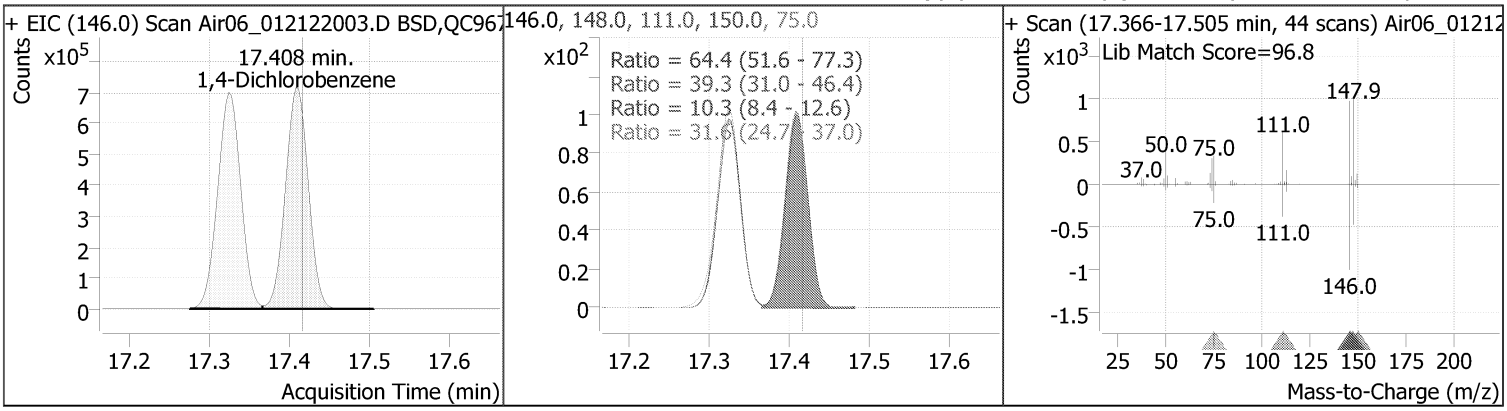



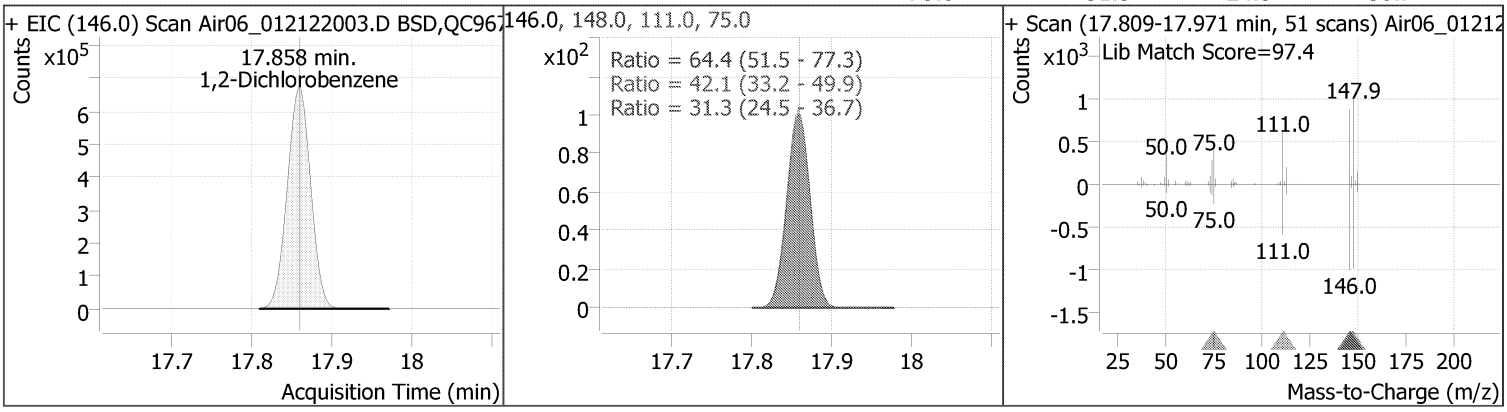
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 9.2666 | 17.32 | 0.00 | 1413583 | 148.0 | 64.8 | 51.7 | 77.5 |
| | | | | | 111.0 | 41.0 | 32.0 | 48.1 |
| | | | | | 75.0 | 32.2 | 25.3 | 37.9 |



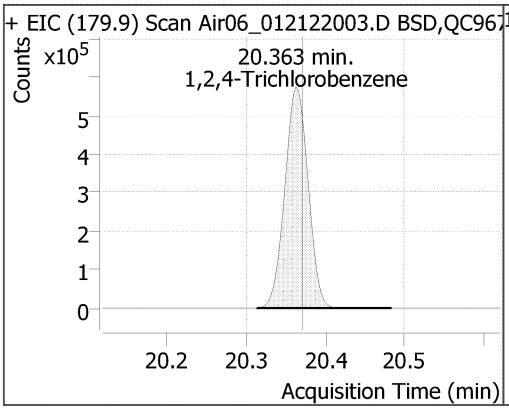

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 9.2722 | 17.41 | -0.01 | 1430281 | 148.0 | 64.4 | 51.6 | 77.3 |
| | | | | | 111.0 | 39.3 | 31.0 | 46.4 |
| | | | | | 75.0 | 31.6 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.3 | 8.4 | 12.6 |

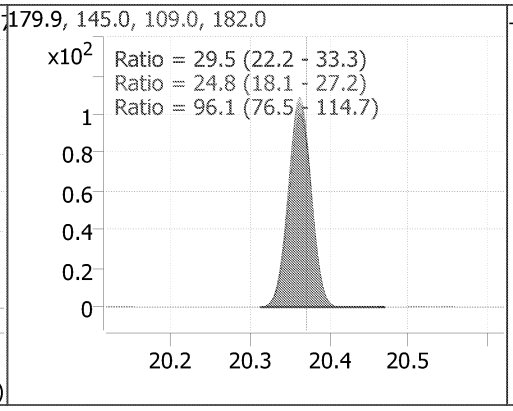


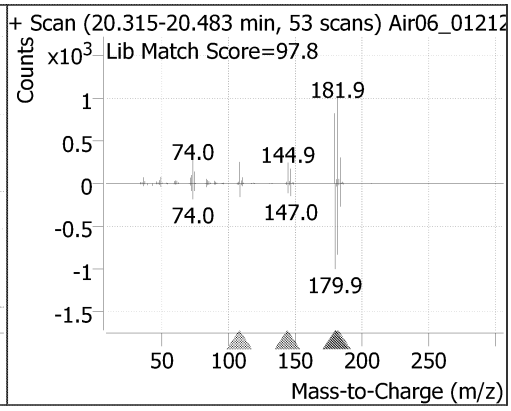

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 9.2716 | 17.86 | 0.00 | 1379466 | 148.0 | 64.4 | 51.5 | 77.3 |
| | | | | | 111.0 | 42.1 | 33.2 | 49.9 |
| | | | | | 75.0 | 31.3 | 24.5 | 36.7 |



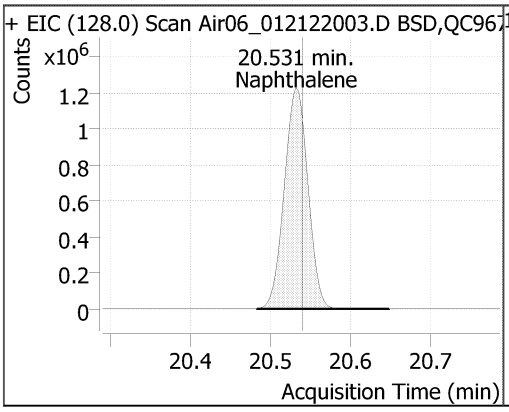
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 9.5007 | 20.36 | -0.01 | 1164797 | 182.0 | 96.1 | 76.5 | 114.7 |
| | | | | | 145.0 | 29.5 | 22.2 | 33.3 |
| | | | | | 109.0 | 24.8 | 18.1 | 27.2 |

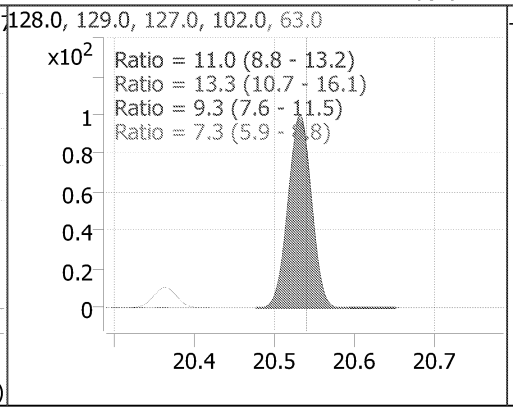


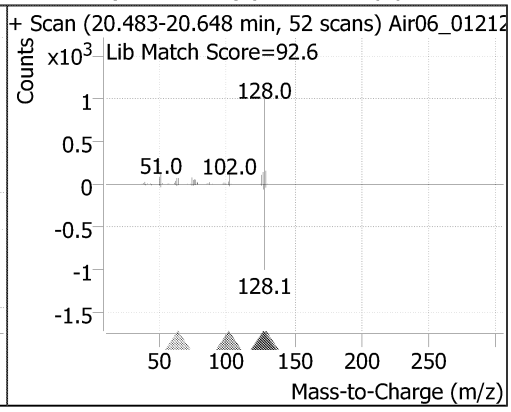



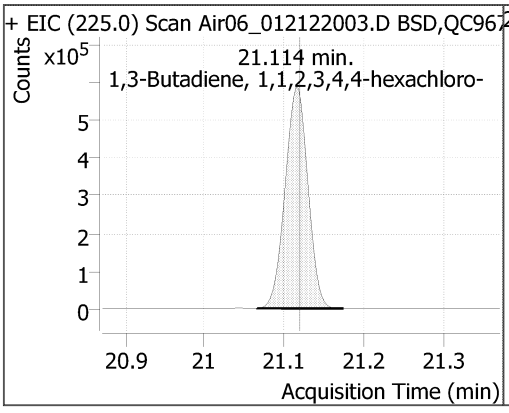

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 9.9732 | 20.53 | -0.01 | 2530776 | 127.0 | 13.3 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.3 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.3 | 5.9 | 8.8 |

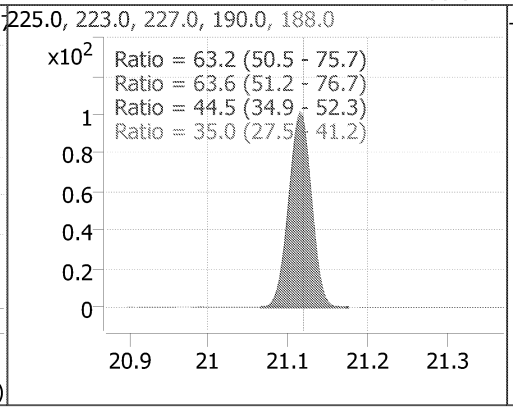


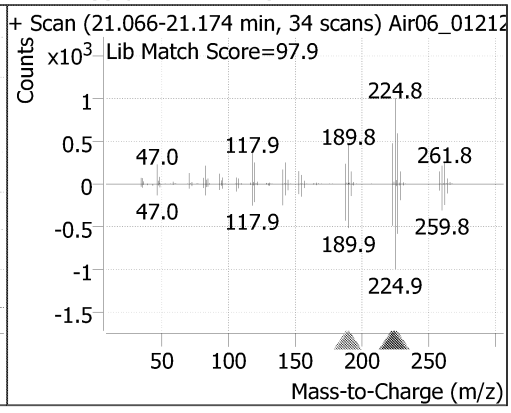




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 8.9057 | 21.11 | -0.01 | 1173261 | 227.0 | 63.6 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.2 | 50.5 | 75.7 |
| | | | | | 190.0 | 44.5 | 34.9 | 52.3 |
| | | | | | 188.0 | 35.0 | 27.5 | 41.2 |



ENTHALPY SPIKE USER REPORT FOR 456991 MSAIR Air
EPA TO-15

Inst : AIR-MS-06 Run Name : QC967922 IDF : 1.0
Seqnum : 372032312002.2 File : air06_012222002 Time : 22-JAN-2022 11:18
Cal : 372007975001 Caldate : 05-JAN-2022
Standards: S16363 (4X), S16385 (5X)

| Analyte | Avg RF/CF | RF/CF | Spiked | Quant | Units | %D | Max %D | Flags |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 2.6061 | 2.9226 | 10.00 | 11.21 | nL/L | 12 | 30 | u |
| Freon 114 | 1.8386 | 1.8874 | 10.00 | 10.27 | nL/L | 3 | 30 | u |
| Chloromethane | 1.2246 | 1.2354 | 10.00 | 10.09 | nL/L | 1 | 30 | u |
| Vinyl Chloride | 1.2249 | 1.2276 | 10.00 | 10.02 | nL/L | 0 | 30 | u |
| Bromomethane | 0.9018 | 0.9254 | 10.00 | 10.26 | nL/L | 3 | 30 | u |
| Chloroethane | 0.6038 | 0.6111 | 10.00 | 10.12 | nL/L | 1 | 30 | u |
| Trichlorofluoromethane | 3.0717 | 3.4042 | 10.00 | 11.08 | nL/L | 11 | 30 | u |
| 1,1-Dichloroethene | 2.2868 | 2.3797 | 10.00 | 10.41 | nL/L | 4 | 30 | u |
| Freon 113 | 2.4686 | 2.4628 | 10.00 | 9.976 | nL/L | 0 | 30 | u |
| Acetone | 0.6285 | 0.6134 | 10.00 | 9.759 | nL/L | -2 | 30 | u |
| Carbon Disulfide | 3.1980 | 3.0551 | 10.00 | 9.553 | nL/L | -4 | 30 | u |
| Isopropanol (IPA) | 2.2507 | 2.3983 | 10.00 | 10.66 | nL/L | 7 | 30 | u |
| Methylene Chloride | 1.1065 | 1.0147 | 10.00 | 9.170 | nL/L | -8 | 30 | u |
| trans-1,2-Dichloroethene | 1.9152 | 1.9089 | 10.00 | 9.967 | nL/L | 0 | 30 | u |
| MTBE | 3.1162 | 3.2417 | 10.00 | 10.40 | nL/L | 4 | 30 | u |
| n-Hexane | 2.1919 | 2.0636 | 10.00 | 9.415 | nL/L | -6 | 30 | u |
| 1,1-Dichloroethane | 2.3516 | 2.3377 | 10.00 | 9.941 | nL/L | -1 | 30 | u |
| Vinyl Acetate | 3.9460 | 3.5715 | 10.00 | 9.051 | nL/L | -9 | 30 | u |
| cis-1,2-Dichloroethene | 1.9371 | 1.9354 | 10.00 | 9.991 | nL/L | 0 | 30 | u |
| 2-Butanone | 3.0399 | 3.0507 | 10.00 | 10.04 | nL/L | 0 | 30 | u |
| Chloroform | 2.4716 | 2.6067 | 10.00 | 10.55 | nL/L | 5 | 30 | u |
| 1,1,1-Trichloroethane | 2.3908 | 2.5953 | 10.00 | 10.86 | nL/L | 9 | 30 | u |
| Carbon Tetrachloride | 2.5506 | 2.7844 | 10.00 | 10.92 | nL/L | 9 | 30 | u |
| Benzene | 3.5631 | 3.3778 | 10.00 | 9.480 | nL/L | -5 | 30 | u |
| 1,2-Dichloroethane | 1.8098 | 2.0192 | 10.00 | 11.16 | nL/L | 12 | 30 | u |
| Trichloroethene | 0.4167 | 0.3625 | 10.00 | 8.701 | nL/L | -13 | 30 | u |
| 1,2-Dichloropropane | 0.4096 | 0.3632 | 10.00 | 8.868 | nL/L | -11 | 30 | u |
| Bromodichloromethane | 0.6684 | 0.6566 | 10.00 | 9.824 | nL/L | -2 | 30 | u |
| cis-1,3-Dichloropropene | 0.1300 | 0.1136 | 10.00 | 8.737 | nL/L | -13 | 30 | u |
| 4-Methyl-2-Pentanone | 0.3593 | 0.3102 | 10.00 | 8.636 | nL/L | -14 | 30 | u |
| Toluene | 1.1853 | 1.0369 | 10.00 | 8.748 | nL/L | -13 | 30 | u |
| trans-1,3-Dichloropropene | 0.1333 | 0.1168 | 10.00 | 8.762 | nL/L | -12 | 30 | u |
| 1,1,2-Trichloroethane | 0.3901 | 0.3506 | 10.00 | 8.987 | nL/L | -10 | 30 | u |
| Tetrachloroethene | 0.6128 | 0.5305 | 10.00 | 8.658 | nL/L | -13 | 30 | u |
| 2-Hexanone | 0.4614 | 0.4106 | 10.00 | 8.899 | nL/L | -11 | 30 | u |
| Dibromochloromethane | 0.7081 | 0.6652 | 10.00 | 9.393 | nL/L | -6 | 30 | u |
| 1,2-Dibromoethane | 0.6001 | 0.5452 | 10.00 | 9.086 | nL/L | -9 | 30 | u |
| Chlorobenzene | 1.7125 | 1.5379 | 10.00 | 8.981 | nL/L | -10 | 30 | u |
| Ethylbenzene | 2.7206 | 2.5235 | 10.00 | 9.275 | nL/L | -7 | 30 | u |
| m,p-Xylenes | 2.1880 | 2.0552 | 20.00 | 18.79 | nL/L | -6 | 30 | u |
| o-Xylene | 2.2496 | 2.1122 | 10.00 | 9.389 | nL/L | -6 | 30 | u |
| Styrene | 1.7339 | 1.5543 | 10.00 | 8.964 | nL/L | -10 | 30 | u |
| Bromoform | 1.4986 | 1.4172 | 10.00 | 9.457 | nL/L | -5 | 30 | u |
| 1,1,2,2-Tetrachloroethane | 1.6534 | 1.5473 | 10.00 | 9.358 | nL/L | -6 | 30 | u |
| 1,1,1,2-Tetrachloroethane | 0.8630 | 0.8239 | 10.00 | 9.547 | nL/L | -5 | 30 | u |
| 4-Ethyltoluene | 3.0516 | 2.8543 | 10.00 | 9.354 | nL/L | -6 | 30 | u |
| 1,3,5-Trimethylbenzene | 2.6417 | 2.4775 | 10.00 | 9.378 | nL/L | -6 | 30 | u |
| 1,2,4-Trimethylbenzene | 2.6238 | 2.4675 | 10.00 | 9.404 | nL/L | -6 | 30 | u |

| Analyte | Avg RF/CF | RF/CF | Spiked | Quant | Units | %D | Max %D | Flags |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 1.7997 | 1.6550 | 10.00 | 9.196 | nL/L | -8 | 30 | u |
| 1,4-Dichlorobenzene | 1.8199 | 1.6628 | 10.00 | 9.137 | nL/L | -9 | 30 | u |
| Benzyl chloride | 2.3071 | 2.2941 | 10.00 | 9.944 | nL/L | -1 | 30 | u |
| 1,2-Dichlorobenzene | 1.7553 | 1.5888 | 10.00 | 9.051 | nL/L | -9 | 30 | u |
| 1,2,4-Trichlorobenzene | 1.4464 | 1.3595 | 10.00 | 9.399 | nL/L | -6 | 30 | u |
| Hexachlorobutadiene | 1.5543 | 1.4229 | 10.00 | 9.155 | nL/L | -8 | 30 | u |
| Bromofluorobenzene | 1.3150 | 1.3190 | 10.00 | 10.03 | nL/L | 0 | 30 | u |

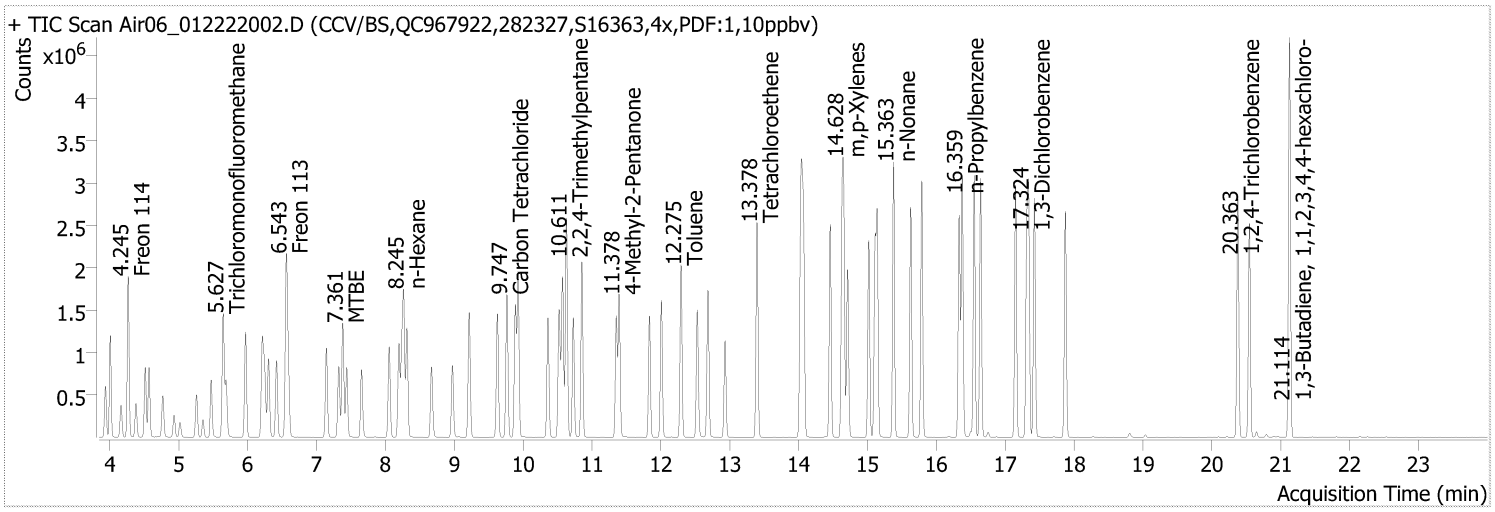
| ISTD (ICAL air06_010522009) | ICAL Area | Area | %Drift | ICAL RT | RT | Drift |
|---|---|---|---|---|---|---|
| Bromochloromethane | 411194 | 372319 | -9.45 | 8.18 | 8.18 | 0.00 |
| 1,4-Difluorobenzene | 1551589 | 1532470 | -1.23 | 9.91 | 9.91 | 0.00 |
| Chlorobenzene-d5 | 847291 | 804246 | -5.08 | 14.01 | 14.01 | 0.00 |

Analyst: DJL Date: 01/26/22 Reviewer: LW Date: 01/27/22

u=use

# Quantitation Results Report (Not Reviewed)

| | | | |
|---|---|---|---|
| Data File | Air06_012222002.D | Operator | DJL/LJB/ZNZ |
| Acq. Method | TO15_Acq_013120_1 | Acq. Date-Time | 1/22/2022 11:18:31 AM |
| Sample Name | CCV/BS,QC967922,282327,S16363,4x,PDF:1,10ppbv | Instrument | Air-MS-06 |
| Vial | 5 | Multiplier | 1.00 |
| DA Method File | TO15_220105.m | Comment | 1x100mL |
| Tune File | bfb.u | Tune Date | 1/5/2022 11:02:33 AM |
| Batch Name | 2022 Jan 22 1015 TO15_220105.m.batch.bin | Last Calib Update | 1/6/2022 3:41:14 PM |
| Ref Library | D:\MassHunter\GCMS\1\data\2021\091621\091621_ICAL.reflibrary.xml | | |



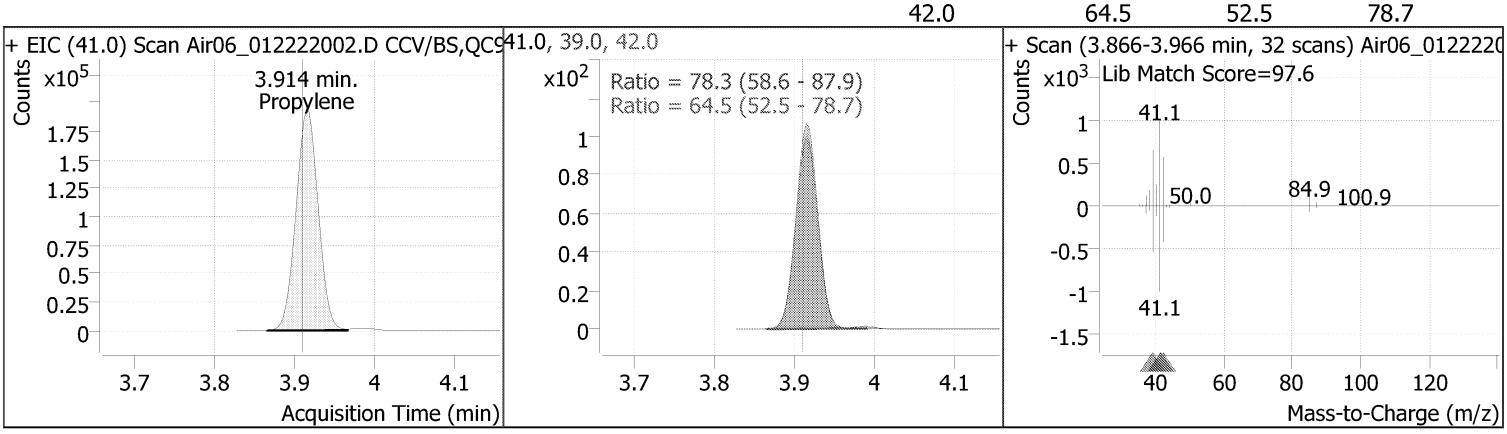

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| M Bromochloromethane | 8.177 | 130.0 | 372319 | 10.0000 | nL/L | | 0.000 |
| M 1,4-Difluorobenzene | 9.909 | 114.0 | 1532470 | 10.0000 | nL/L | | 0.000 |
| M Chlorobenzene-d5 | 14.013 | 82.0 | 804246 | 10.0000 | nL/L | | 0.000 |
| **System Monitoring Compounds** | | | | | | | |
| S p-Bromofluorobenzene | 15.612 | 95.0 | 1060781 | 10.0302 | nL/L | | -0.003 |
| Spiked Amount: 10.000 | Range: 60.0 - 140.0% | | | Recovery = 100.30% | | | |
| **Target Compounds** | | | | | | | QValue |
| T Propylene | 3.914 | 41.0 | 375030 | 10.2251 | nL/L | | 96 |
| T Freon 12 | 3.986 | 85.0 | 1088142 | 11.2145 | nL/L | # | 98 |
| T Chloromethane | 4.141 | 50.0 | 459979 | 10.0888 | nL/L | | 99 |
| T Freon 114 | 4.245 | 135.0 | 702699 | 10.2654 | nL/L | | 100 |
| T Vinyl Chloride | 4.358 | 62.0 | 457049 | 10.0221 | nL/L | | 99 |
| T 1,3-Butadiene | 4.494 | 54.0 | 401960 | 10.2920 | nL/L | | 96 |
| T Butane | 4.549 | 43.0 | 805473 | 10.6258 | nL/L | | 99 |
| T Bromomethane | 4.749 | 96.0 | 344554 | 10.2617 | nL/L | | 99 |
| T Chloroethane | 4.911 | 64.0 | 227514 | 10.1204 | nL/L | | 97 |
| T Ethanol | 4.995 | 45.0 | 214930 | 9.5727 | nL/L | | 98 |
| T Vinyl bromide | 5.238 | 108.0 | 375805 | 9.5378 | nL/L | | 98 |
| T Acrolein | 5.332 | 56.0 | 182991 | 9.2387 | nL/L | # | 98 |
| T Acetone | 5.452 | 58.0 | 228363 | 9.7589 | nL/L | # | 81 |
| T Trichloromonofluoromethane | 5.627 | 101.0 | 1267448 | 11.0826 | nL/L | | 100 |
| T Isopropanol (IPA) | 5.669 | 45.0 | 892923 | 10.6556 | nL/L | | 96 |
| T n-Pentane | 5.950 | 43.0 | 903591 | 9.6467 | nL/L | | 98 |
| T 1,1-Dichloroethene | 6.193 | 61.0 | 885997 | 10.4062 | nL/L | | 97 |
| T Tert-butyl alcohol (TBA) | 6.225 | 59.0 | 1004026 | 10.3536 | nL/L | | 94 |
| T Methylene Chloride | 6.284 | 84.0 | 377773 | 9.1701 | nL/L | | 98 |
| T 3-Chloropropene | 6.400 | 76.0 | 180428 | 9.5008 | nL/L | | 100 |
| T Freon 113 | 6.543 | 101.0 | 916934 | 9.9764 | nL/L | | 98 |

| Compound | RT | QIon | Resp. | Conc. | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| T Carbon Disulfide | 6.572 | 76.0 | 1137487 | 9.5534 | nL/L | # | 94 |
| T trans-1,2-Dichloroethene | 7.125 | 61.0 | 710732 | 9.9672 | nL/L | | 98 |
| T 1,1-Dichloroethane | 7.303 | 63.0 | 870358 | 9.9407 | nL/L | | 100 |
| T MTBE | 7.361 | 73.0 | 1206954 | 10.4028 | nL/L | | 97 |
| T Vinyl Acetate | 7.420 | 43.0 | 1329722 | 9.0507 | nL/L | | 100 |
| T 2-Butanone | 7.633 | 43.0 | 1135815 | 10.0353 | nL/L | | 95 |
| T cis-1,2-Dichloroethene | 8.038 | 61.0 | 720584 | 9.9911 | nL/L | | 98 |
| T Ethyl Acetate | 8.219 | 61.0 | 165763 | 9.3284 | nL/L | | 90 |
| T n-Hexane | 8.245 | 57.0 | 768330 | 9.4148 | nL/L | | 94 |
| T Chloroform | 8.294 | 83.0 | 970513 | 10.5463 | nL/L | | 97 |
| T Tetrahydrofuran | 8.653 | 72.0 | 194453 | 9.5796 | nL/L | | 96 |
| T 1,2-Dichloroethane | 8.954 | 62.0 | 751775 | 11.1567 | nL/L | | 98 |
| T 1,1,1-Trichloroethane | 9.200 | 97.0 | 966296 | 10.8557 | nL/L | | 97 |
| T Benzene | 9.608 | 78.0 | 1257620 | 9.4800 | nL/L | | 98 |
| T Carbon Tetrachloride | 9.747 | 117.0 | 1036672 | 10.9165 | nL/L | # | 98 |
| T Cyclohexane | 9.870 | 84.0 | 515511 | 9.3011 | nL/L | | 97 |
| T 1,2-Dichloropropane | 10.342 | 63.0 | 556623 | 8.8676 | nL/L | | 96 |
| T Methane, bromodichloro- | 10.504 | 83.0 | 1006250 | 9.8244 | nL/L | | 98 |
| T 1,4-Dioxane | 10.537 | 88.0 | 281757 | 8.6016 | nL/L | | 98 |
| T Trichloroethene | 10.556 | 132.0 | 555593 | 8.7009 | nL/L | | 99 |
| T 2,2,4-Trimethylpentane | 10.611 | 57.0 | 2488269 | 8.7102 | nL/L | | 97 |
| T Methyl methacrylate | 10.711 | 69.0 | 484196 | 9.0870 | nL/L | | 92 |
| T n-Heptane | 10.834 | 71.0 | 437047 | 8.8563 | nL/L | | 98 |
| T cis-1,3-Dichloropropene | 11.336 | 110.0 | 174094 | 8.7368 | nL/L | | 95 |
| T 4-Methyl-2-Pentanone | 11.378 | 58.0 | 475445 | 8.6359 | nL/L | | 94 |
| T trans-1,3-Dichloropropene | 11.818 | 110.0 | 179016 | 8.7623 | nL/L | # | 95 |
| T 1,1,2-Trichloroethane | 11.990 | 97.0 | 537234 | 8.9871 | nL/L | | 98 |
| T Toluene | 12.275 | 91.0 | 1588989 | 8.7480 | nL/L | | 99 |
| T TPH Gasoline (C3 to C12) | 12.399 | 165.0 | 234593067 | 18.1082 | nL/L | | 100 |
| T 2-Hexanone | 12.511 | 58.0 | 629247 | 8.8988 | nL/L | | 93 |
| T Dibromochloromethane | 12.666 | 129.0 | 1019352 | 9.3932 | nL/L | | 98 |
| T 1,2-Dibromoethane | 12.916 | 108.9 | 835561 | 9.0856 | nL/L | | 100 |
| T Tetrachloroethene | 13.378 | 166.0 | 813023 | 8.6576 | nL/L | | 96 |
| T 1,1,1,2-Tetrachloroethane | 14.032 | 131.0 | 662588 | 9.5469 | nL/L | | 98 |
| T Benzene, chloro- | 14.058 | 112.0 | 1236852 | 8.9806 | nL/L | | 98 |
| T Ethylbenzene | 14.443 | 91.0 | 2029477 | 9.2752 | nL/L | | 99 |
| T TPH Gasoline (C6 to C12) | 14.524 | 165.0 | 178536985 | 18.8678 | nL/L | | 100 |
| T m,p-Xylenes | 14.628 | 91.0 | 3305788 | 18.7858 | nL/L | | 99 |
| T Bromoform | 14.696 | 173.0 | 1139779 | 9.4566 | nL/L | | 98 |
| T Styrene | 15.003 | 104.0 | 1250078 | 8.9642 | nL/L | | 99 |
| T 1,1,2,2-Tetrachloroethane | 15.094 | 83.0 | 1244402 | 9.3581 | nL/L | | 100 |
| T o-Xylene | 15.126 | 91.0 | 1698748 | 9.3895 | nL/L | | 99 |
| T n-Nonane | 15.363 | 85.0 | 380043 | 9.0925 | nL/L | | 99 |
| T Isopropylbenzene | 15.774 | 105.0 | 2299738 | 9.2729 | nL/L | | 99 |
| T 2-Chlorotoluene | 16.317 | 126.0 | 564387 | 8.9348 | nL/L | | 97 |
| T n-Propylbenzene | 16.359 | 120.0 | 632006 | 9.1207 | nL/L | | 93 |
| T 4-Ethyltoluene | 16.534 | 105.1 | 2295596 | 9.3535 | nL/L | | 99 |
| T 1,3,5-Trimethylbenzene | 16.628 | 105.0 | 1992490 | 9.3782 | nL/L | | 99 |
| T 1,2,4-Trimethylbenzene | 17.136 | 105.0 | 1984491 | 9.4044 | nL/L | | 99 |
| T Benzyl chloride | 17.295 | 91.0 | 1845045 | 9.9439 | nL/L | | 98 |
| T 1,3-Dichlorobenzene | 17.324 | 146.0 | 1330997 | 9.1958 | nL/L | | 98 |
| T 1,4-Dichlorobenzene | 17.408 | 146.0 | 1337268 | 9.1368 | nL/L | | 99 |
| T 1,2-Dichlorobenzene | 17.858 | 146.0 | 1277756 | 9.0512 | nL/L | | 99 |
| T 1,2,4-Trichlorobenzene | 20.363 | 179.9 | 1093346 | 9.3989 | nL/L | | 98 |
| T Naphthalene | 20.532 | 128.0 | 2318678 | 9.6302 | nL/L | | 100 |

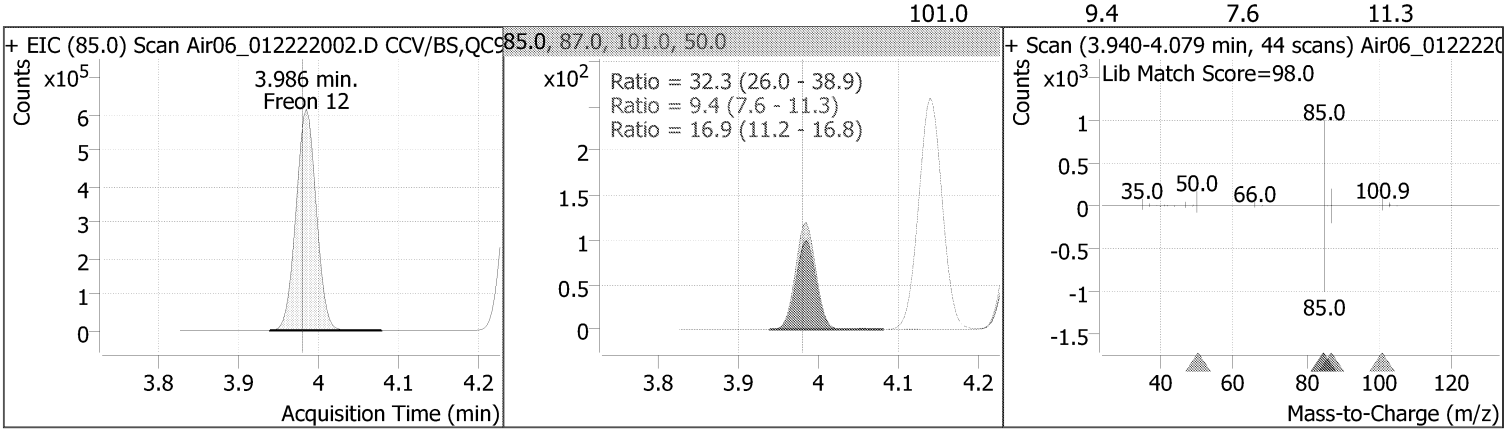
| Compound | RT | QIon | Resp. | Conc. | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| T 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 21.114 | 225.0 | 1144378 | 9.1550 | nL/L | 100 |

**(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak**

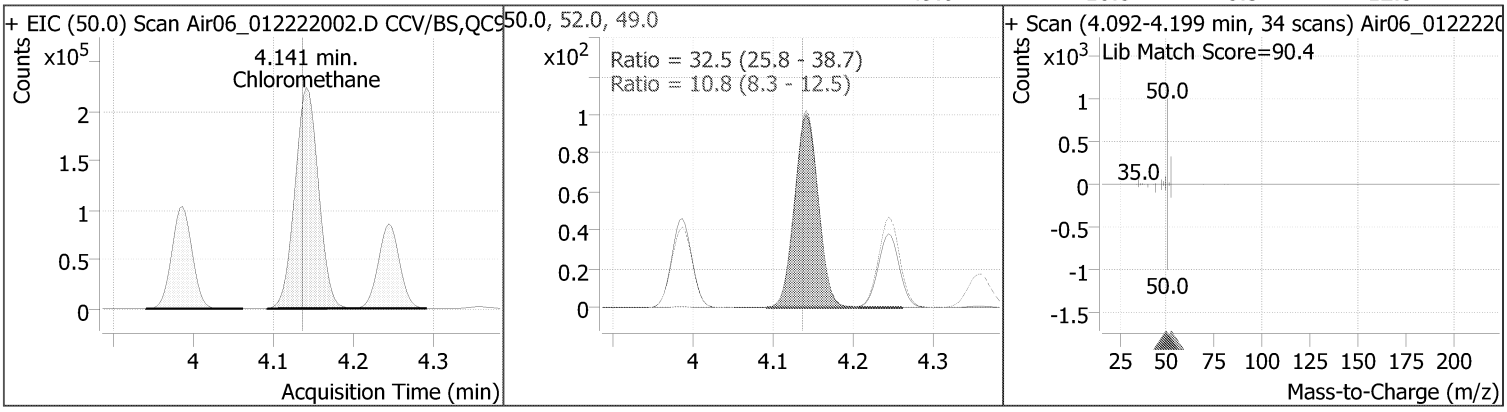
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Propylene | 10.2251 | 3.91 | 0.01 | 375030 | 39.0 | 78.3 | 58.6 | 87.9 |
| | | | | | 42.0 | 64.5 | 52.5 | 78.7 |



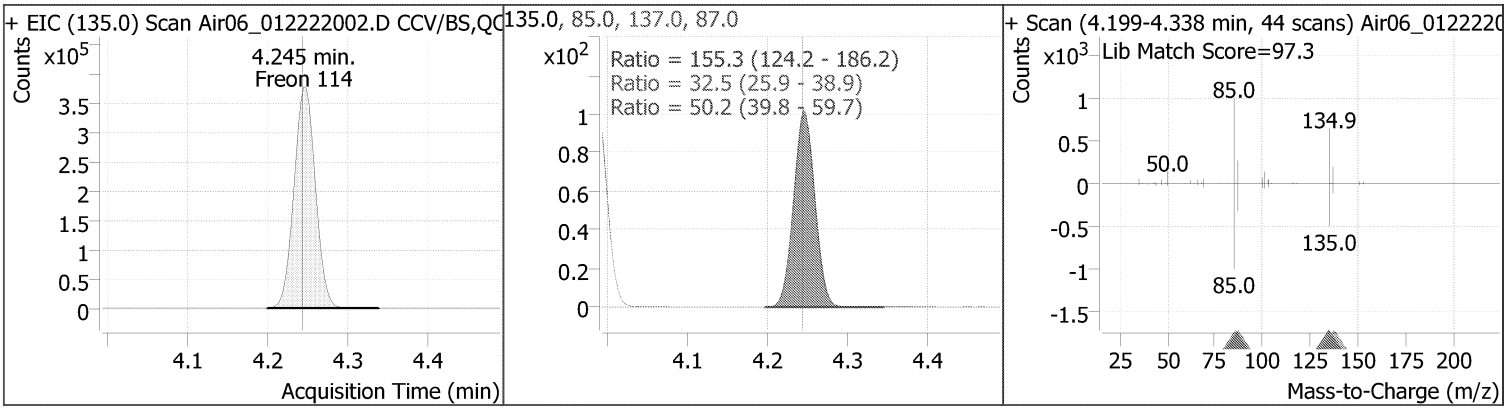

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 12 | 11.2145 | 3.99 | 0.01 | 1088142 | 87.0 | 32.3 | 26.0 | 38.9 |
| | | | | | 50.0 | 16.9 | 11.2 | 16.8 |
| | | | | | 101.0 | 9.4 | 7.6 | 11.3 |



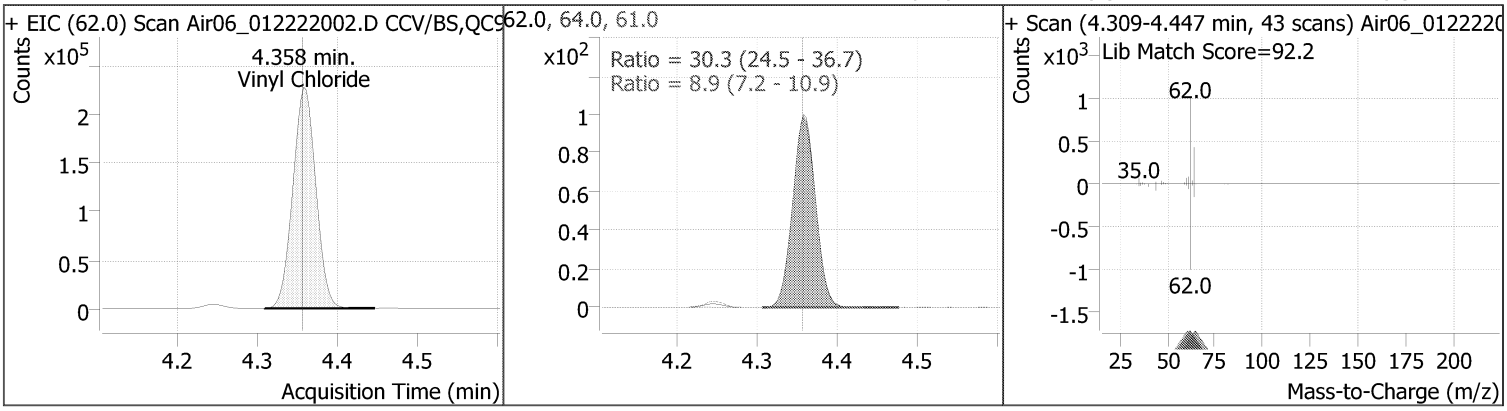

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0888 | 4.14 | 0.01 | 459979 | 52.0 | 32.5 | 25.8 | 38.7 |
| | | | | | 49.0 | 10.8 | 8.3 | 12.5 |



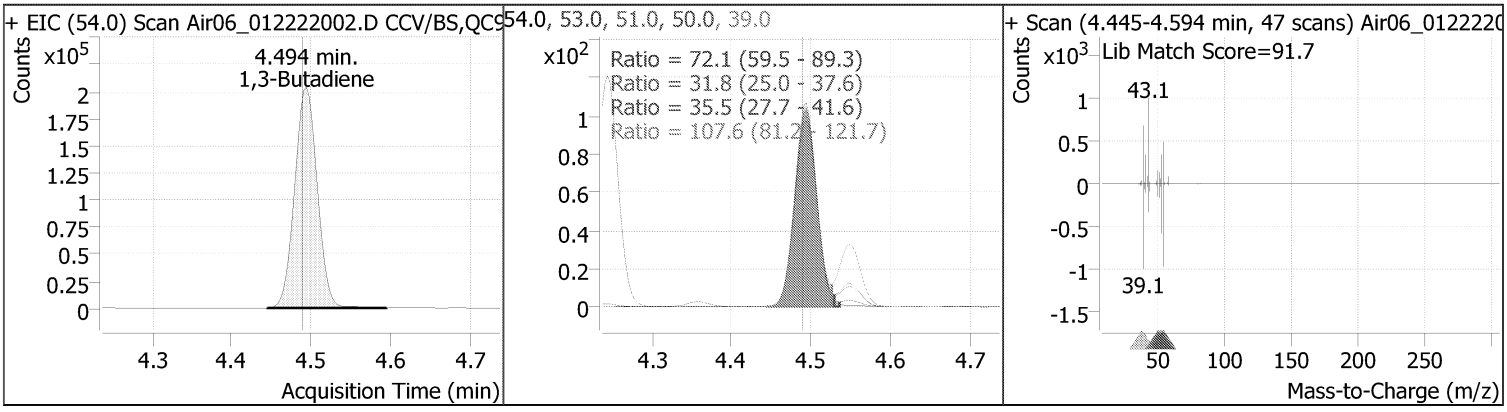
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 114 | 10.2654 | 4.24 | 0.00 | 702699 | 85.0 | 155.3 | 124.2 | 186.2 |
| | | | | | 87.0 | 50.2 | 39.8 | 59.7 |
| | | | | | 137.0 | 32.5 | 25.9 | 38.9 |



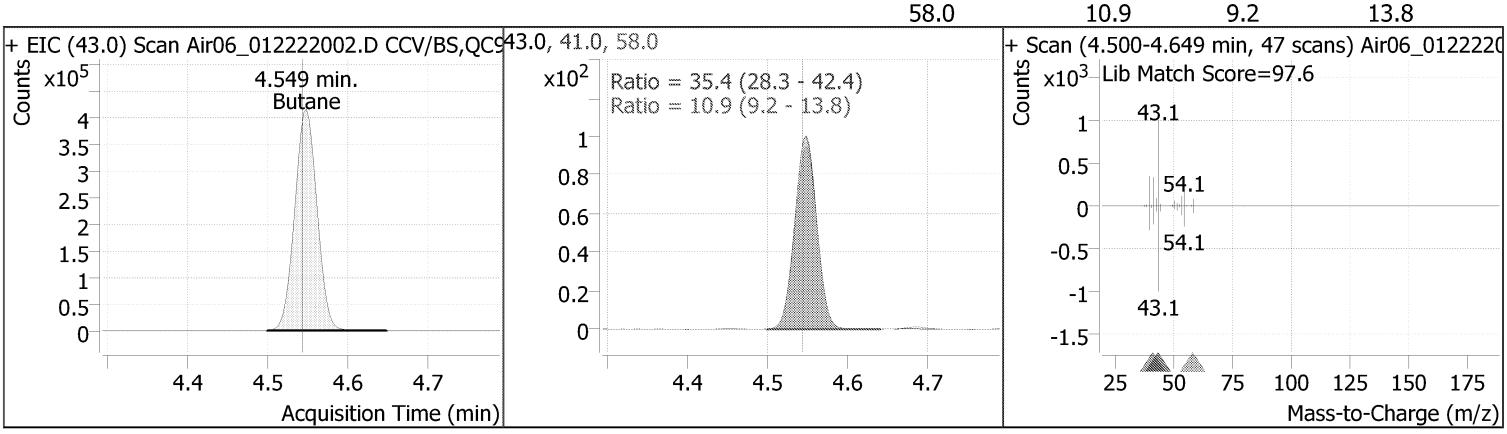

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 10.0221 | 4.36 | 0.00 | 457049 | 64.0 | 30.3 | 24.5 | 36.7 |
| | | | | | 61.0 | 8.9 | 7.2 | 10.9 |



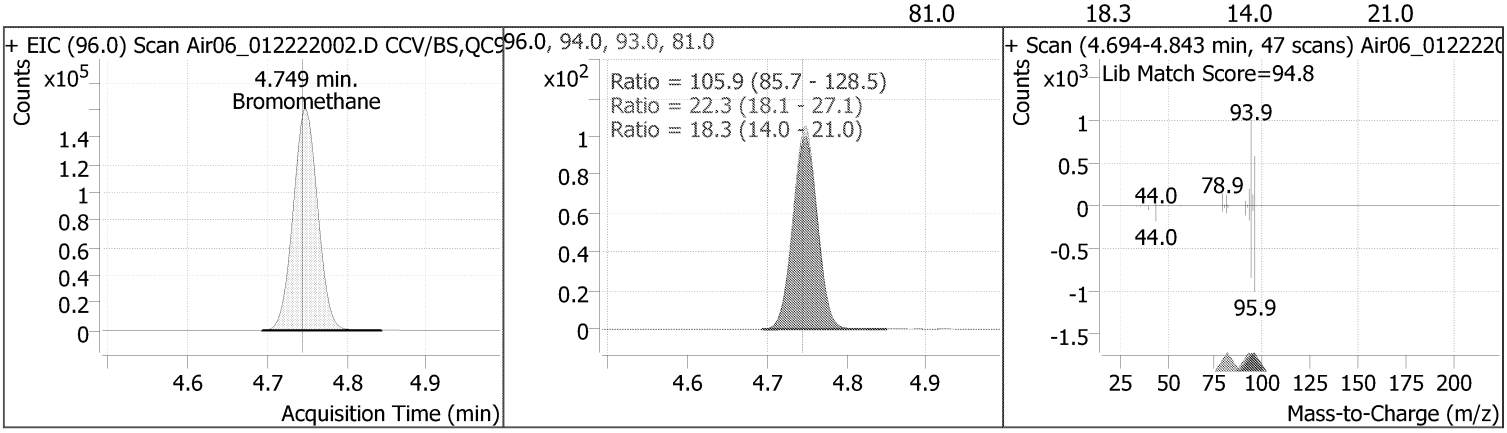

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | 10.2920 | 4.49 | 0.01 | 401960 | 39.0 | 107.6 | 81.2 | 121.7 |
| | | | | | 53.0 | 72.1 | 59.5 | 89.3 |
| | | | | | 50.0 | 35.5 | 27.7 | 41.6 |
| | | | | | 51.0 | 31.8 | 25.0 | 37.6 |



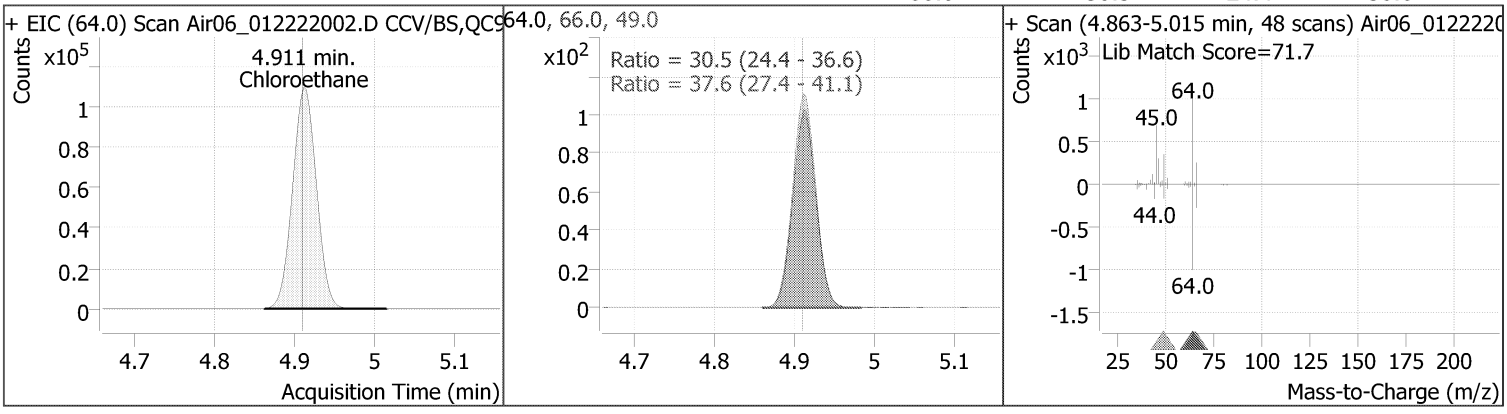
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Butane | 10.6258 | 4.55 | 0.01 | 805473 | 41.0 | 35.4 | 28.3 | 42.4 |
| | | | | | 58.0 | 10.9 | 9.2 | 13.8 |



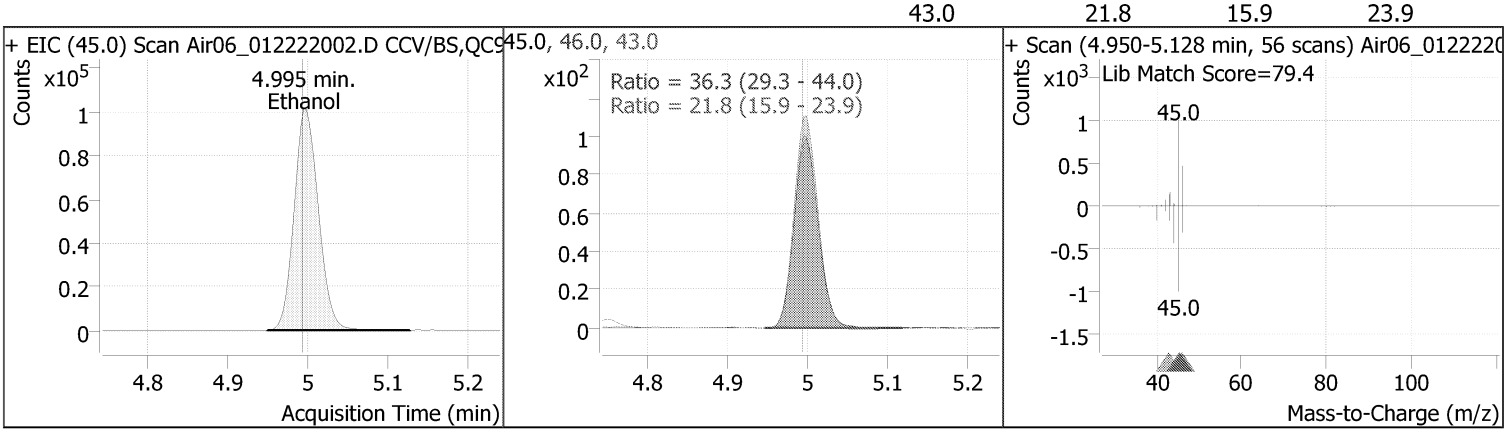

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromomethane | 10.2617 | 4.75 | 0.01 | 344554 | 94.0 | 105.9 | 85.7 | 128.5 |
| | | | | | 93.0 | 22.3 | 18.1 | 27.1 |
| | | | | | 81.0 | 18.3 | 14.0 | 21.0 |



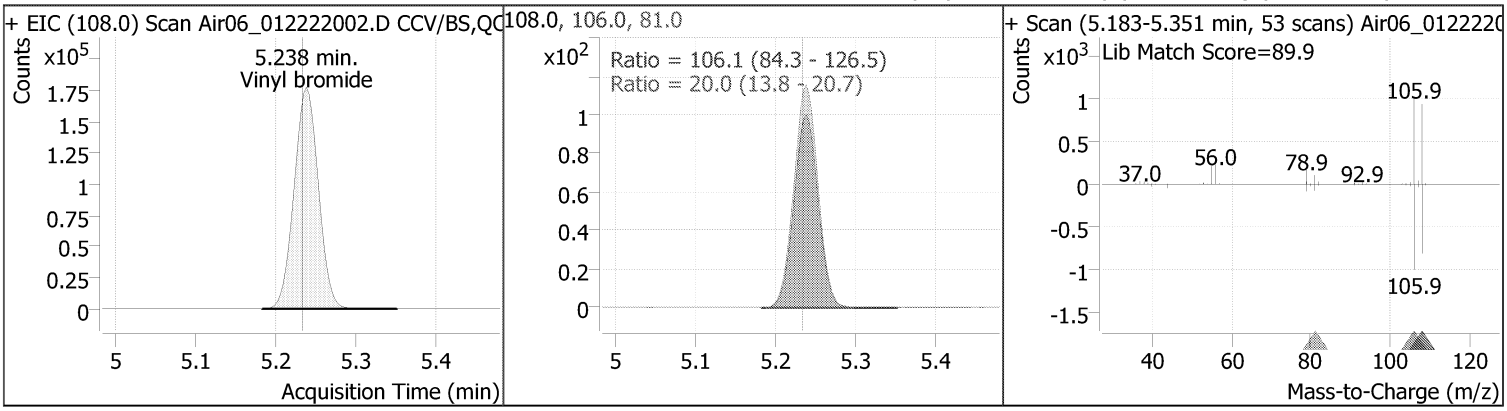

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.1204 | 4.91 | 0.00 | 227514 | 49.0 | 37.6 | 27.4 | 41.1 |
| | | | | | 66.0 | 30.5 | 24.4 | 36.6 |



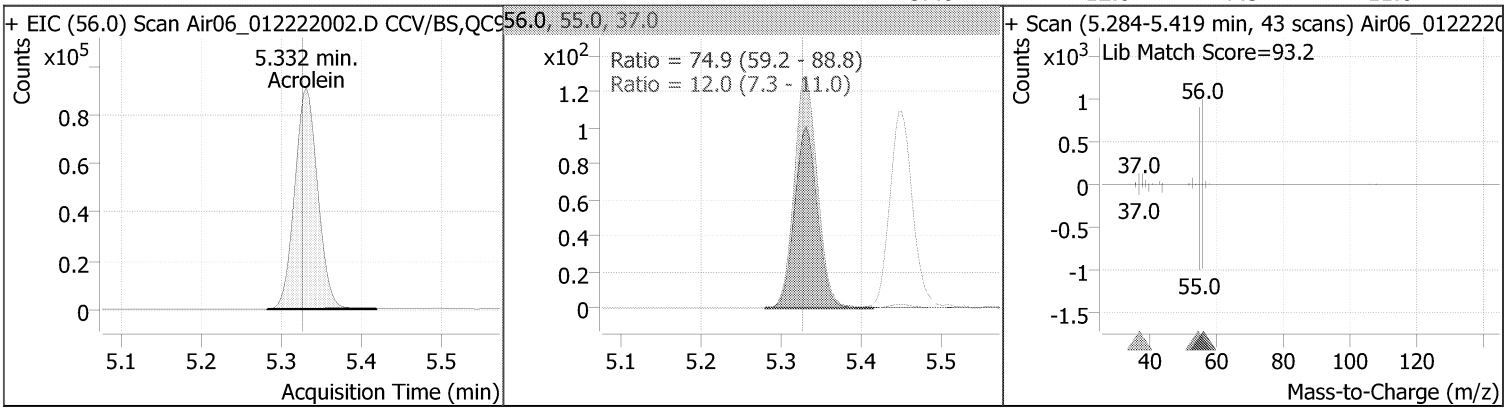
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethanol | 9.5727 | 5.00 | 0.00 | 214930 | 46.0 | 36.3 | 29.3 | 44.0 |
| | | | | | 43.0 | 21.8 | 15.9 | 23.9 |



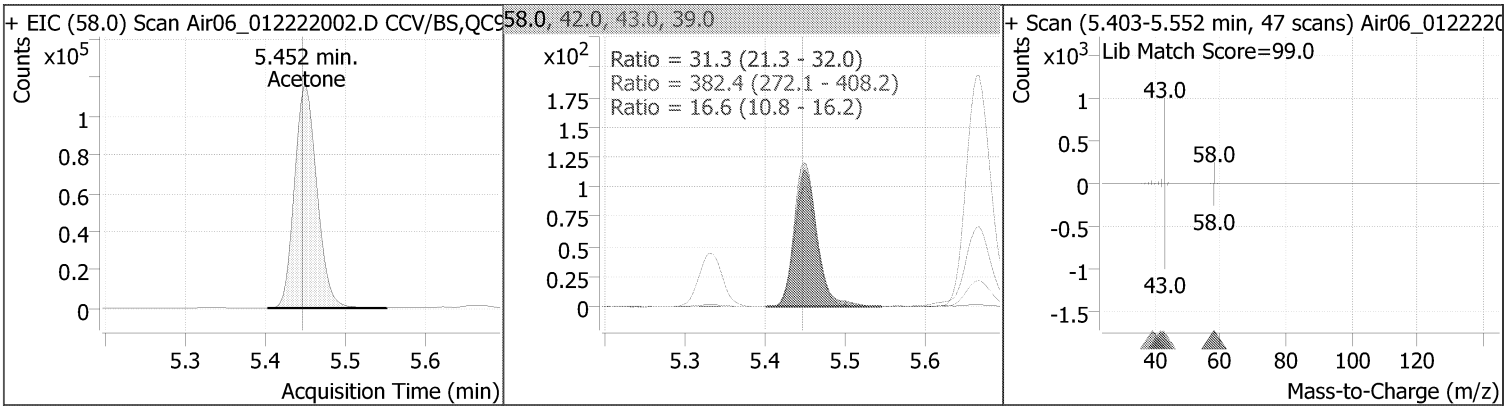

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl bromide | 9.5378 | 5.24 | 0.01 | 375805 | 106.0 | 106.1 | 84.3 | 126.5 |
| | | | | | 81.0 | 20.0 | 13.8 | 20.7 |



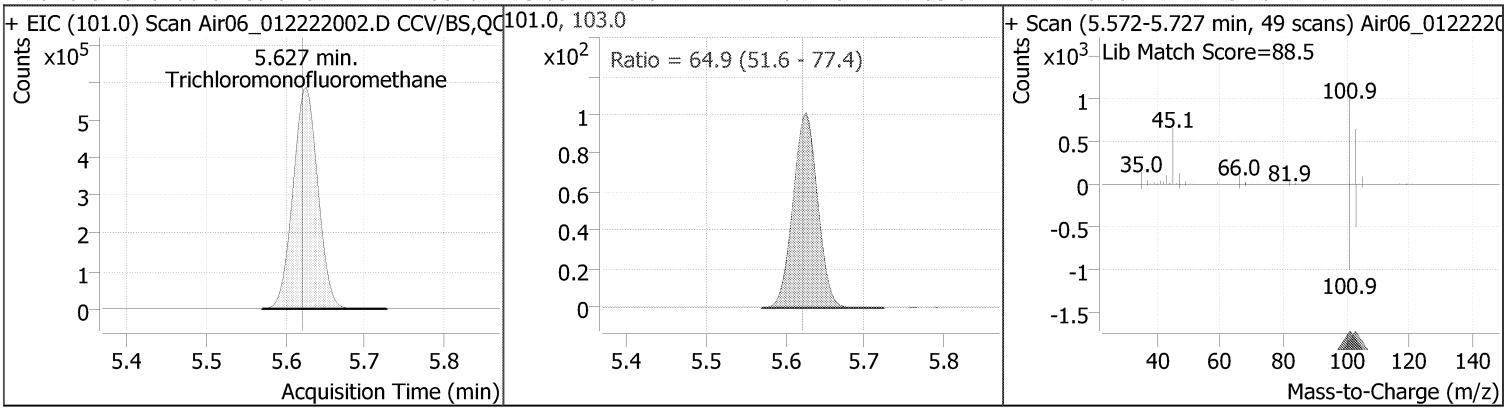

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acrolein | 9.2387 | 5.33 | 0.01 | 182991 | 55.0 | 74.9 | 59.2 | 88.8 |
| | | | | | 37.0 | 12.0 | 7.3 | 11.0 |



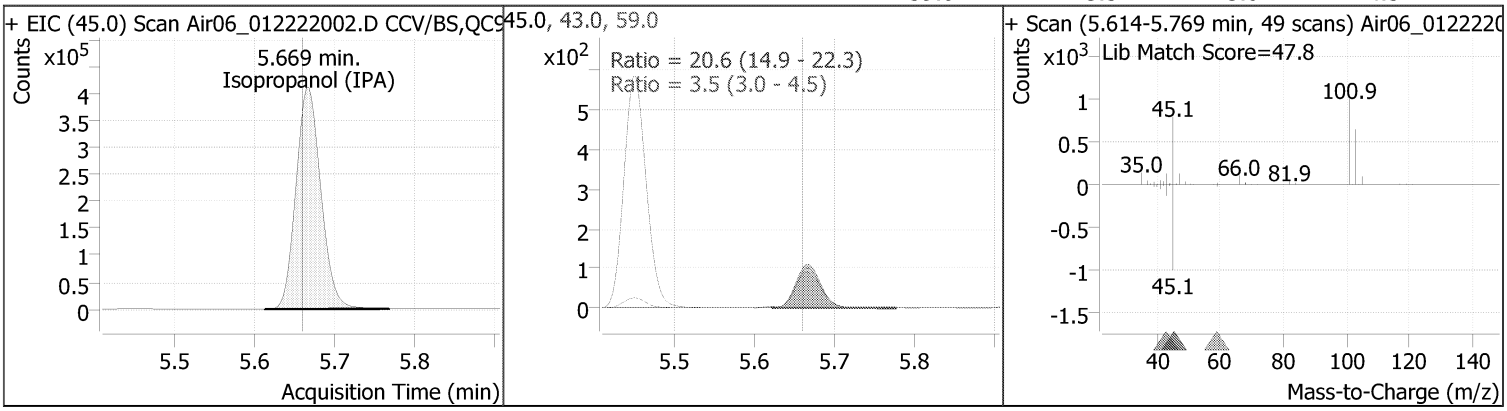
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Acetone | 9.7589 | 5.45 | 0.01 | 228363 | 43.0 | 382.4 | 272.1 | 408.2 |
| | | | | | 42.0 | 31.3 | 21.3 | 32.0 |
| | | | | | 39.0 | 16.6 | 10.8 | 16.2 |



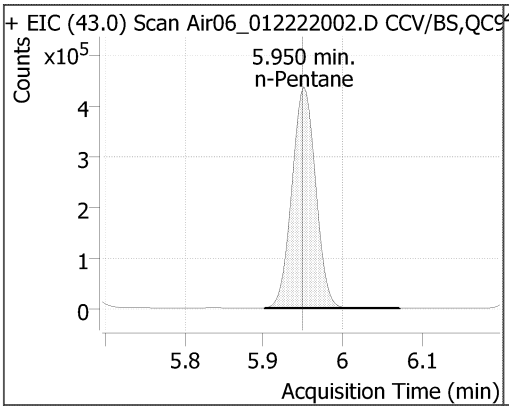

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloromonofluoromethane | 11.0826 | 5.63 | 0.01 | 1267448 | 103.0 | 64.9 | 51.6 | 77.4 |

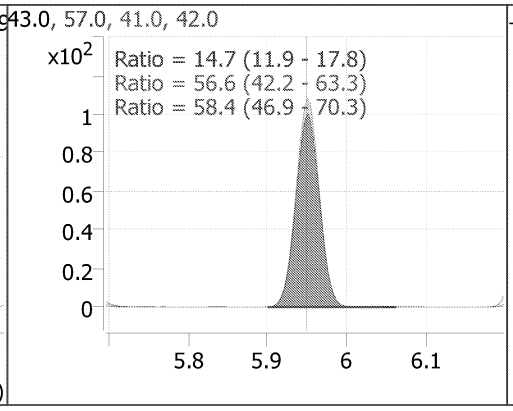


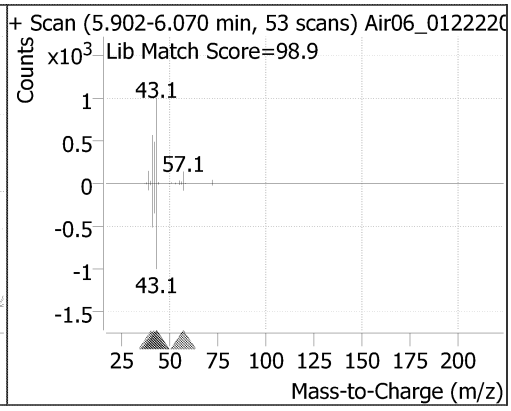

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropanol (IPA) | 10.6556 | 5.67 | 0.01 | 892923 | 43.0 | 20.6 | 14.9 | 22.3 |
| | | | | | 59.0 | 3.5 | 3.0 | 4.5 |



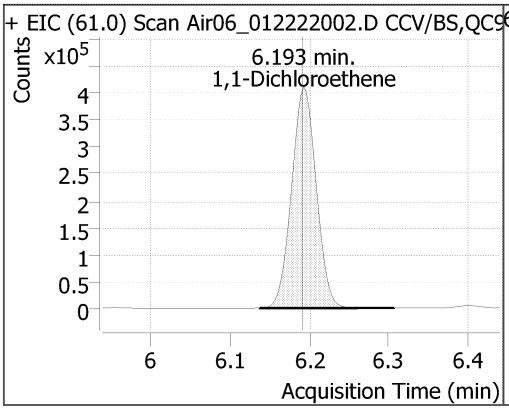
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Pentane | 9.6467 | 5.95 | 0.00 | 903591 | 42.0 | 58.4 | 46.9 | 70.3 |
| | | | | | 41.0 | 56.6 | 42.2 | 63.3 |
| | | | | | 57.0 | 14.7 | 11.9 | 17.8 |

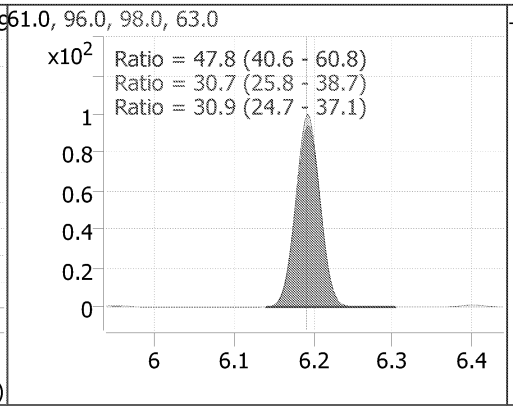


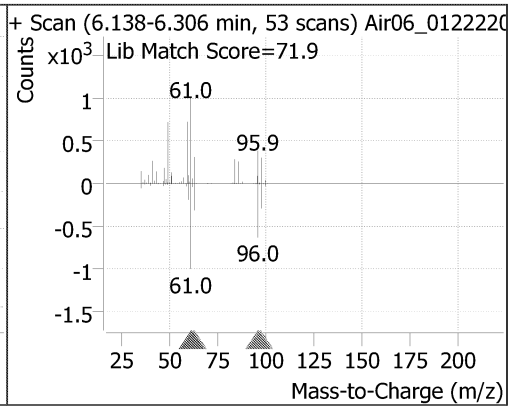



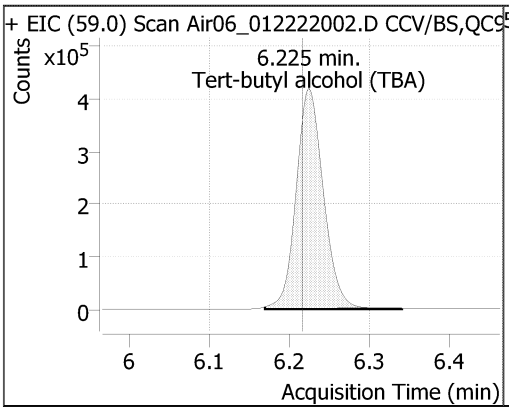

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 10.4062 | 6.19 | 0.00 | 885997 | 96.0 | 47.8 | 40.6 | 60.8 |
| | | | | | 98.0 | 30.7 | 25.8 | 38.7 |
| | | | | | 63.0 | 30.9 | 24.7 | 37.1 |

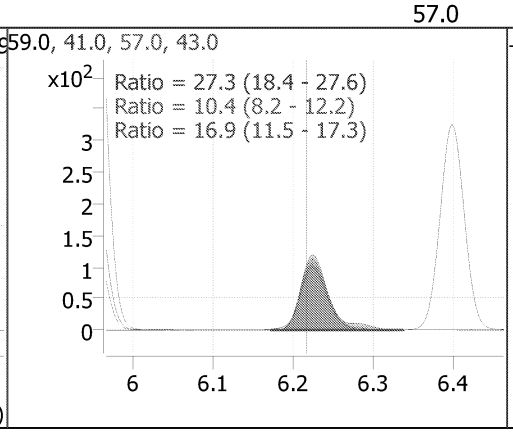


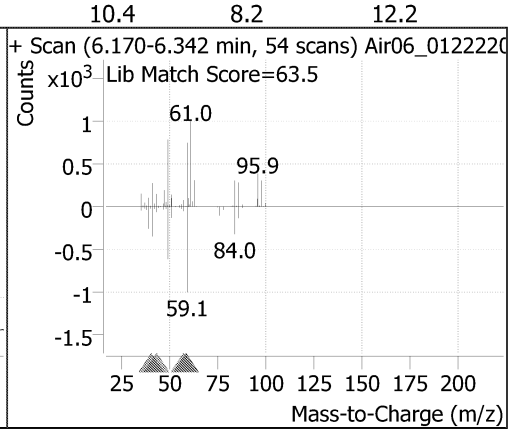



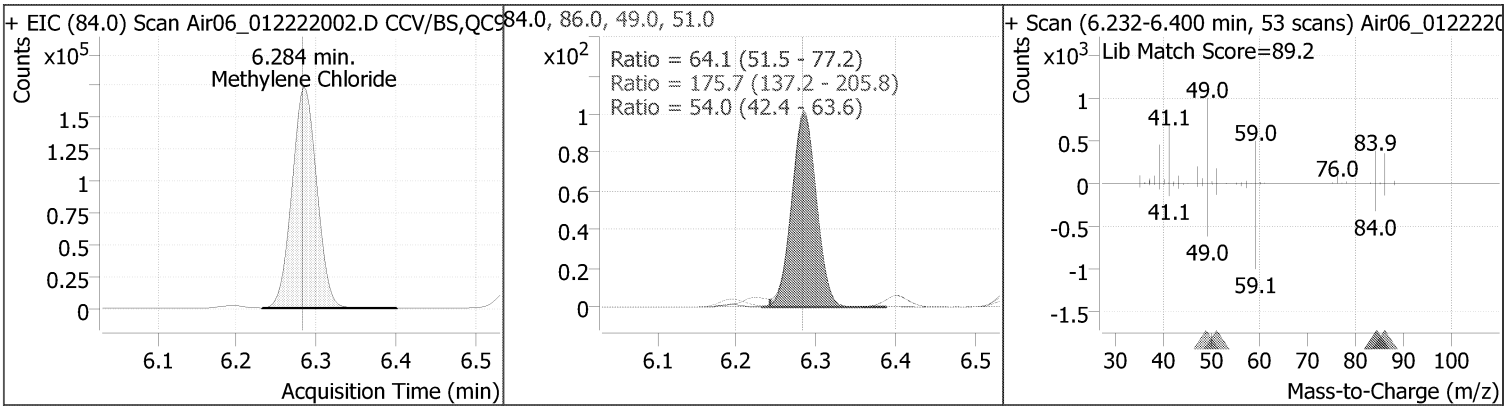

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tert-butyl alcohol (TBA) | 10.3536 | 6.23 | 0.01 | 1004026 | 41.0 | 27.3 | 18.4 | 27.6 |
| | | | | | 43.0 | 16.9 | 11.5 | 17.3 |
| | | | | | 57.0 | 10.4 | 8.2 | 12.2 |



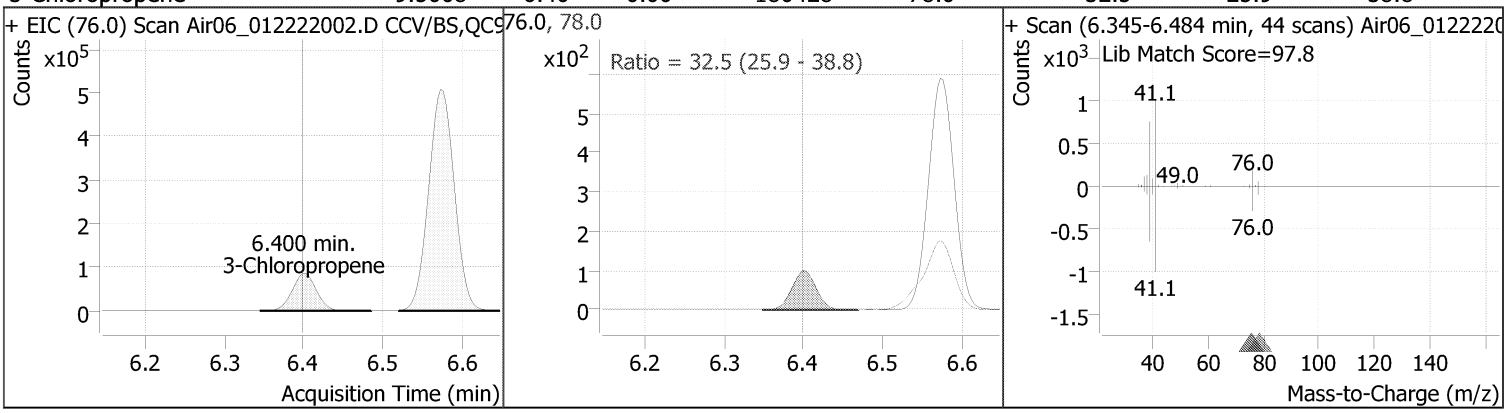



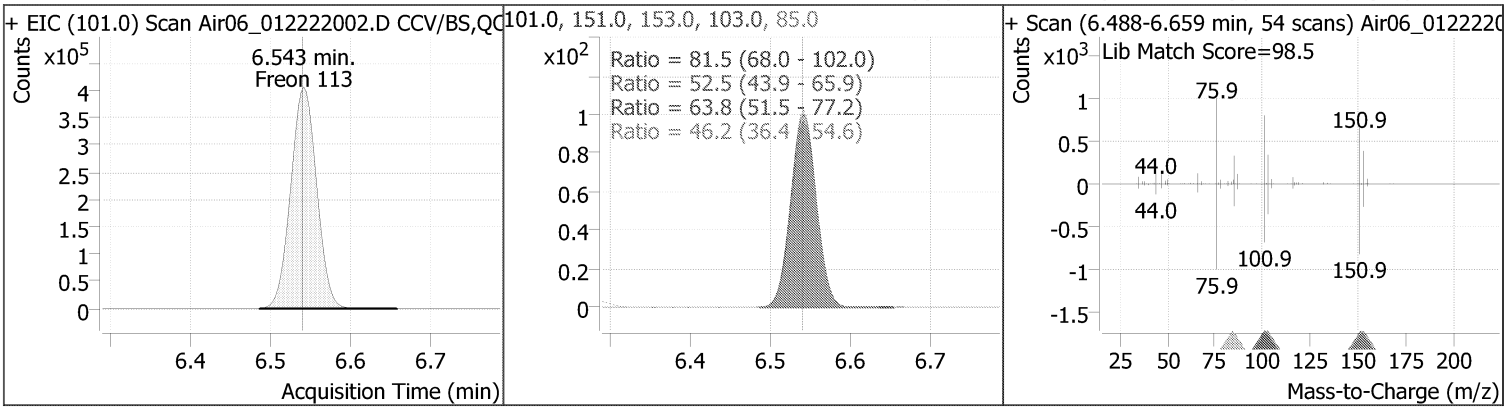
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 9.1701 | 6.28 | 0.00 | 377773 | 49.0 | 175.7 | 137.2 | 205.8 |
| | | | | | 86.0 | 64.1 | 51.5 | 77.2 |
| | | | | | 51.0 | 54.0 | 42.4 | 63.6 |



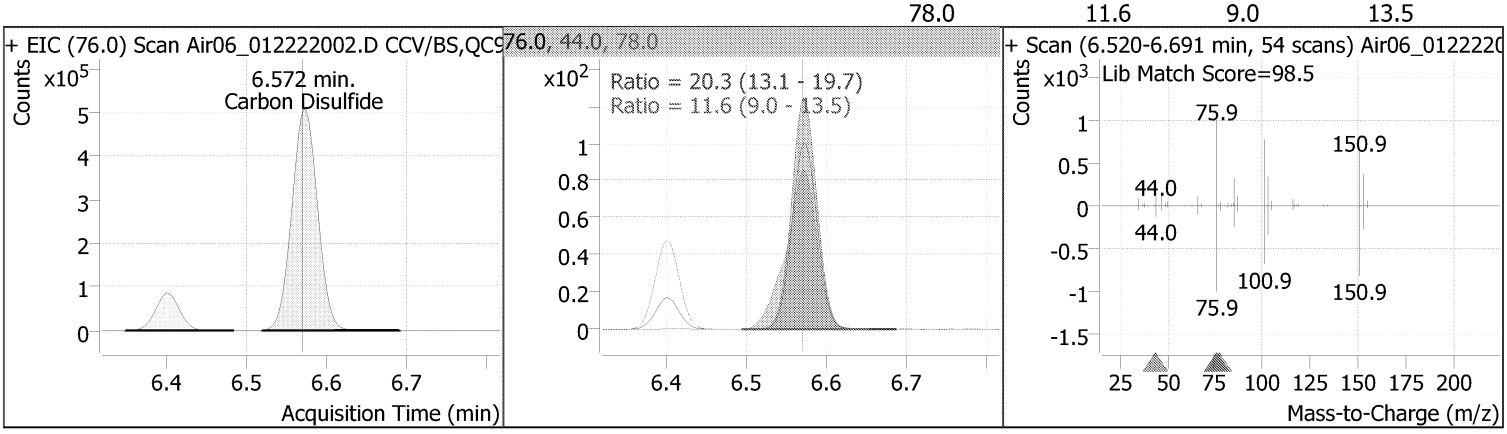

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 3-Chloropropene | 9.5008 | 6.40 | 0.00 | 180428 | 78.0 | 32.5 | 25.9 | 38.8 |



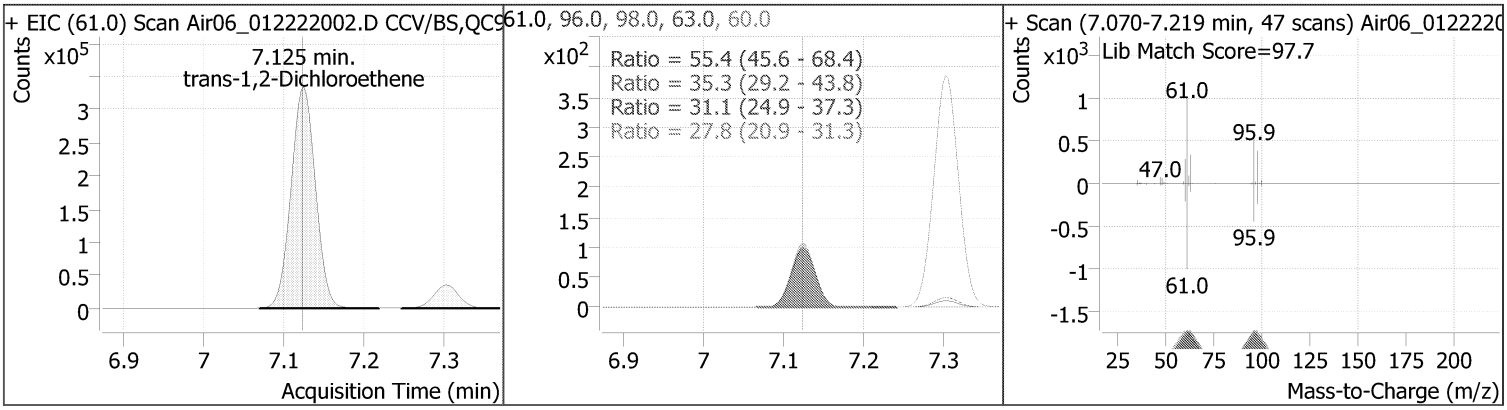

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Freon 113 | 9.9764 | 6.54 | 0.00 | 916934 | 151.0 | 81.5 | 68.0 | 102.0 |
| | | | | | 103.0 | 63.8 | 51.5 | 77.2 |
| | | | | | 153.0 | 52.5 | 43.9 | 65.9 |
| | | | | | 85.0 | 46.2 | 36.4 | 54.6 |



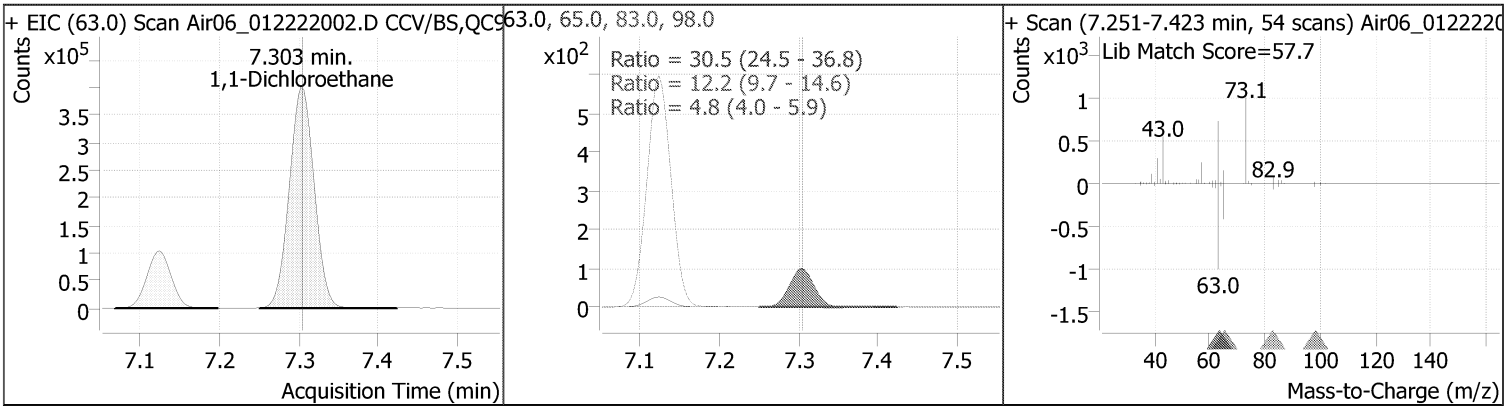
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Disulfide | 9.5534 | 6.57 | 0.00 | 1137487 | 44.0 | 20.3 | 13.1 | 19.7 |
| | | | | | 78.0 | 11.6 | 9.0 | 13.5 |



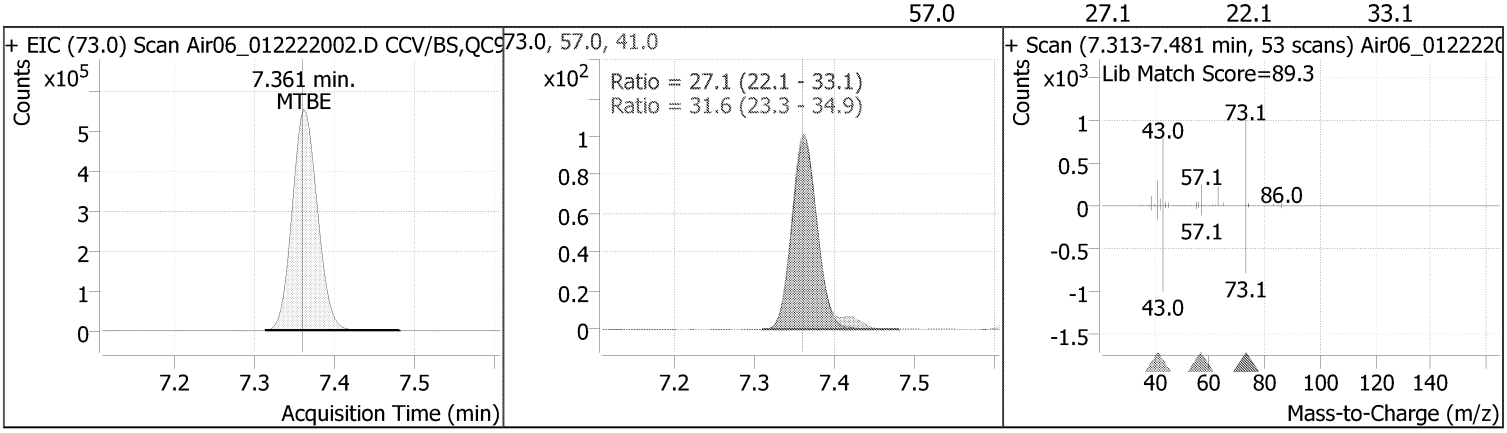

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 9.9672 | 7.13 | 0.00 | 710732 | 96.0 | 55.4 | 45.6 | 68.4 |
| | | | | | 98.0 | 35.3 | 29.2 | 43.8 |
| | | | | | 63.0 | 31.1 | 24.9 | 37.3 |
| | | | | | 60.0 | 27.8 | 20.9 | 31.3 |



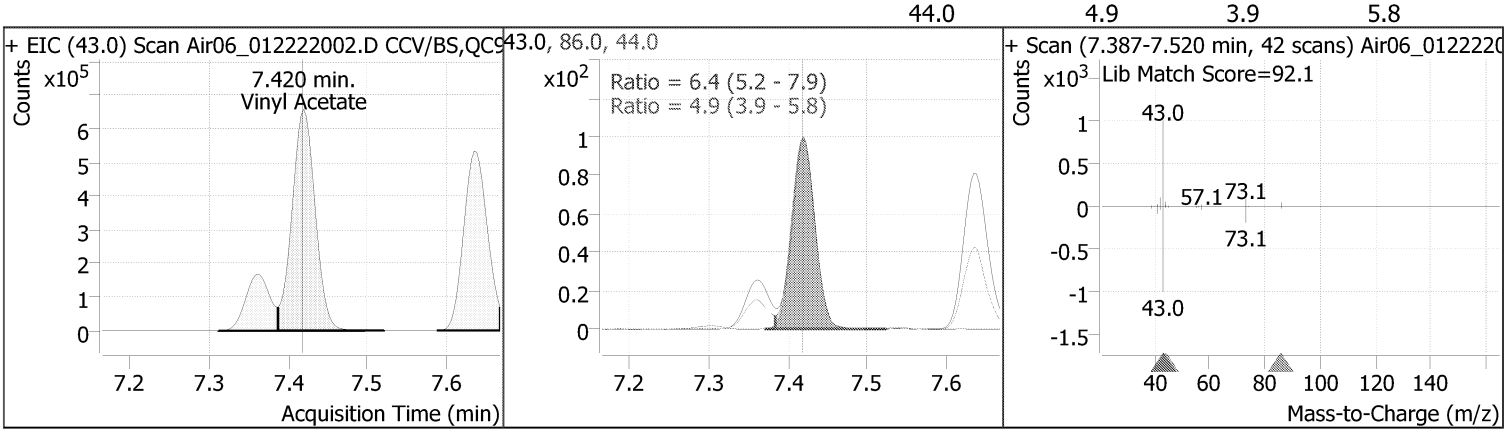

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 9.9407 | 7.30 | 0.00 | 870358 | 65.0 | 30.5 | 24.5 | 36.8 |
| | | | | | 83.0 | 12.2 | 9.7 | 14.6 |
| | | | | | 98.0 | 4.8 | 4.0 | 5.9 |



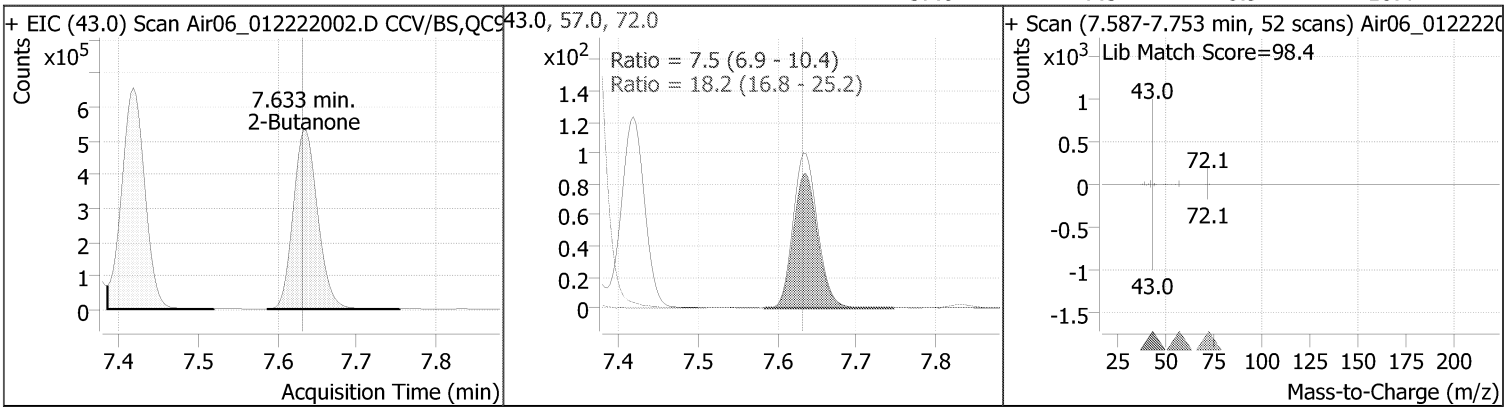
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| MTBE | 10.4028 | 7.36 | 0.00 | 1206954 | 41.0 | 31.6 | 23.3 | 34.9 |
| | | | | | 57.0 | 27.1 | 22.1 | 33.1 |



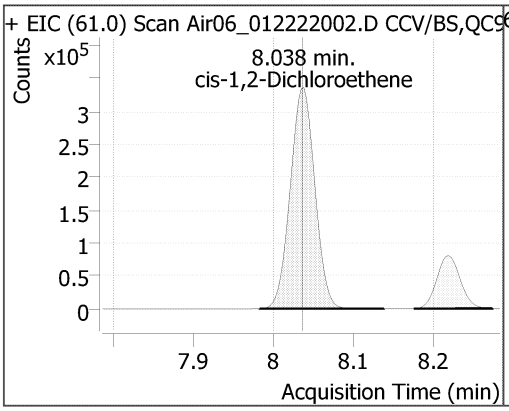

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | 9.0507 | 7.42 | 0.00 | 1329722 | 86.0 | 6.4 | 5.2 | 7.9 |
| | | | | | 44.0 | 4.9 | 3.9 | 5.8 |

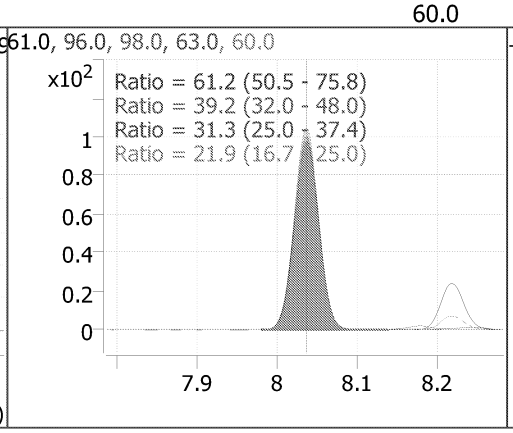


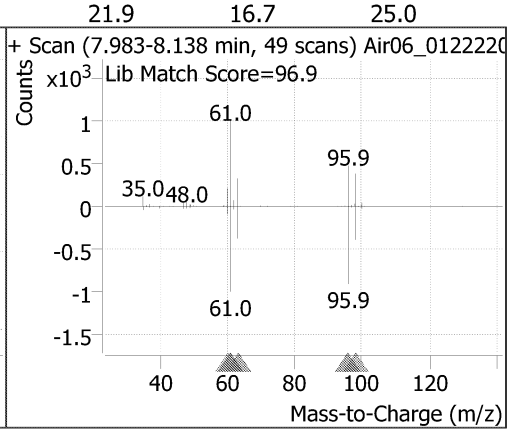

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 10.0353 | 7.63 | 0.00 | 1135815 | 72.0 | 18.2 | 16.8 | 25.2 |
| | | | | | 57.0 | 7.5 | 6.9 | 10.4 |



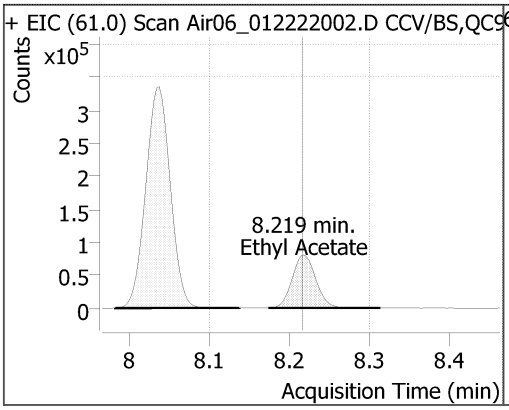
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 9.9911 | 8.04 | 0.00 | 720584 | 96.0 | 61.2 | 50.5 | 75.8 |
| | | | | | 98.0 | 39.2 | 32.0 | 48.0 |
| | | | | | 63.0 | 31.3 | 25.0 | 37.4 |
| | | | | | 60.0 | 21.9 | 16.7 | 25.0 |

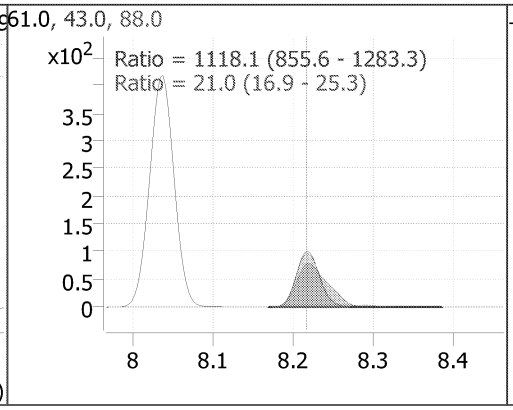


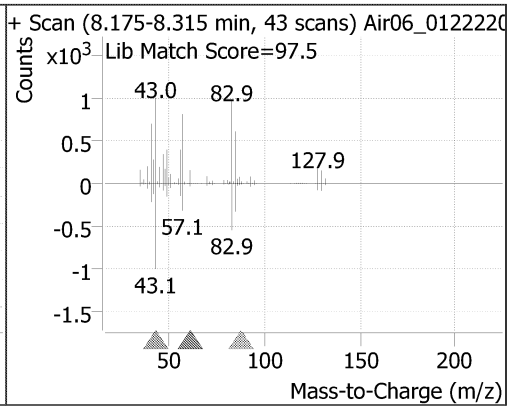



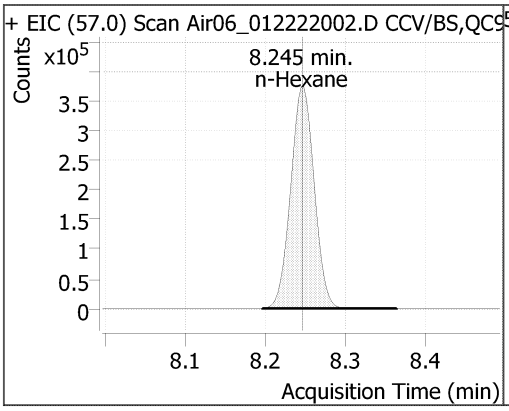

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 9.3284 | 8.22 | 0.00 | 165763 | 43.0 | 1118.1 | 855.6 | 1283.3 |
| | | | | | 88.0 | 21.0 | 16.9 | 25.3 |

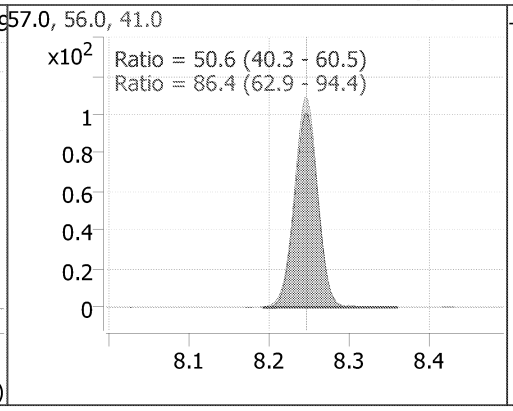


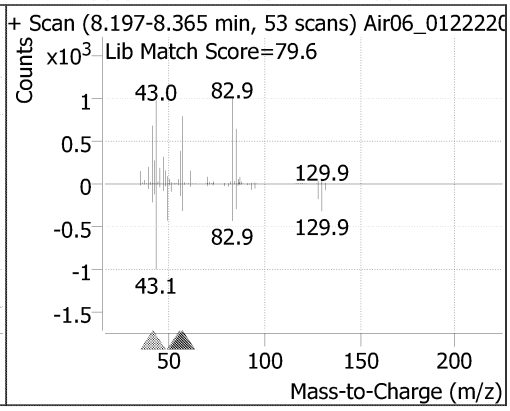



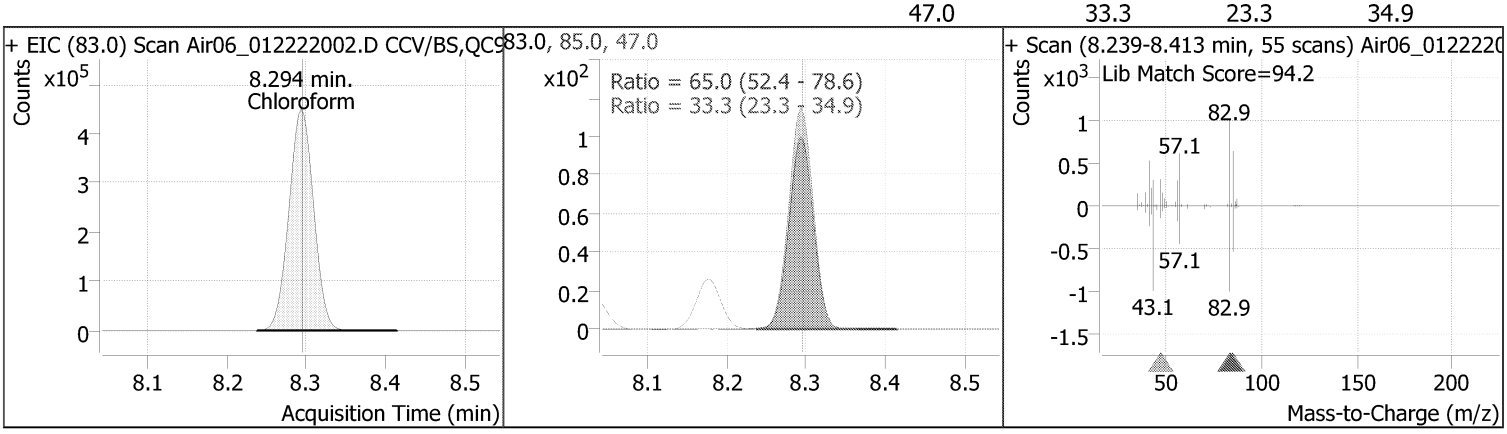

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | 9.4148 | 8.25 | 0.00 | 768330 | 41.0 | 86.4 | 62.9 | 94.4 |
| | | | | | 56.0 | 50.6 | 40.3 | 60.5 |



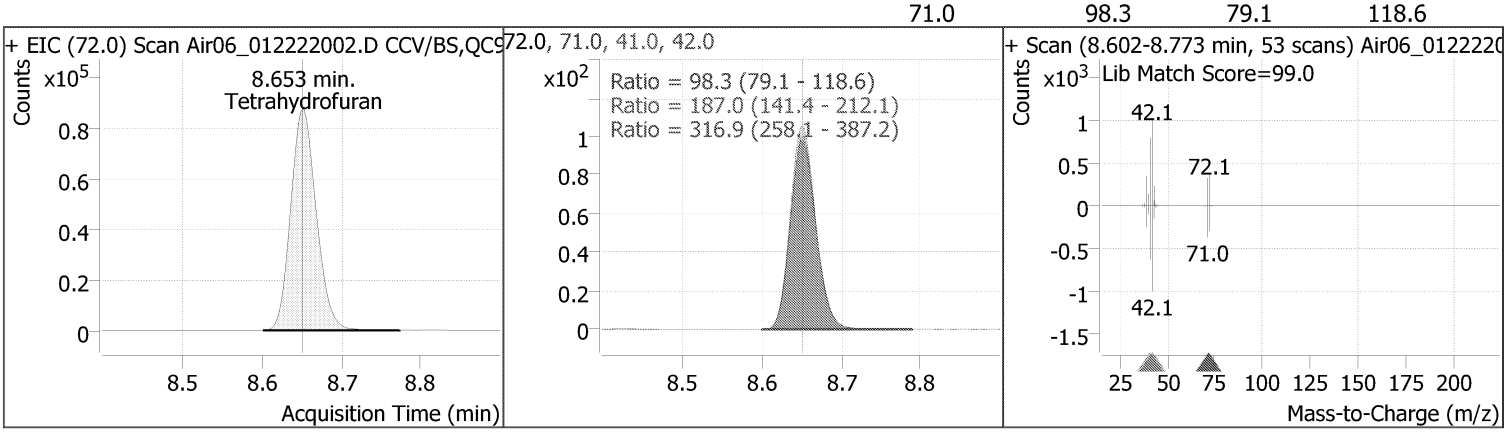



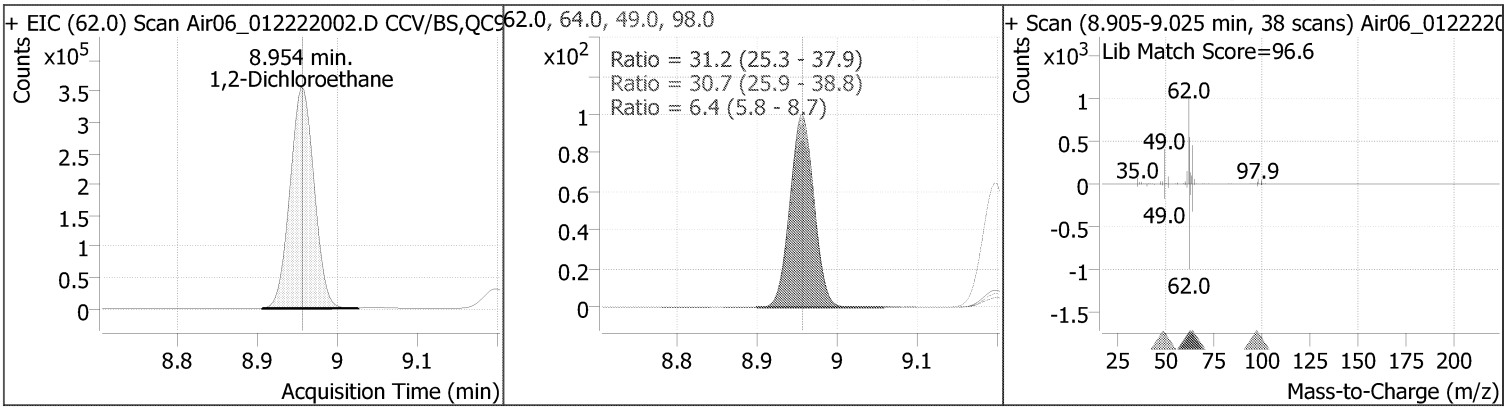
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Chloroform | 10.5463 | 8.29 | 0.00 | 970513 | 85.0 | 65.0 | 52.4 | 78.6 |
| | | | | | 47.0 | 33.3 | 23.3 | 34.9 |



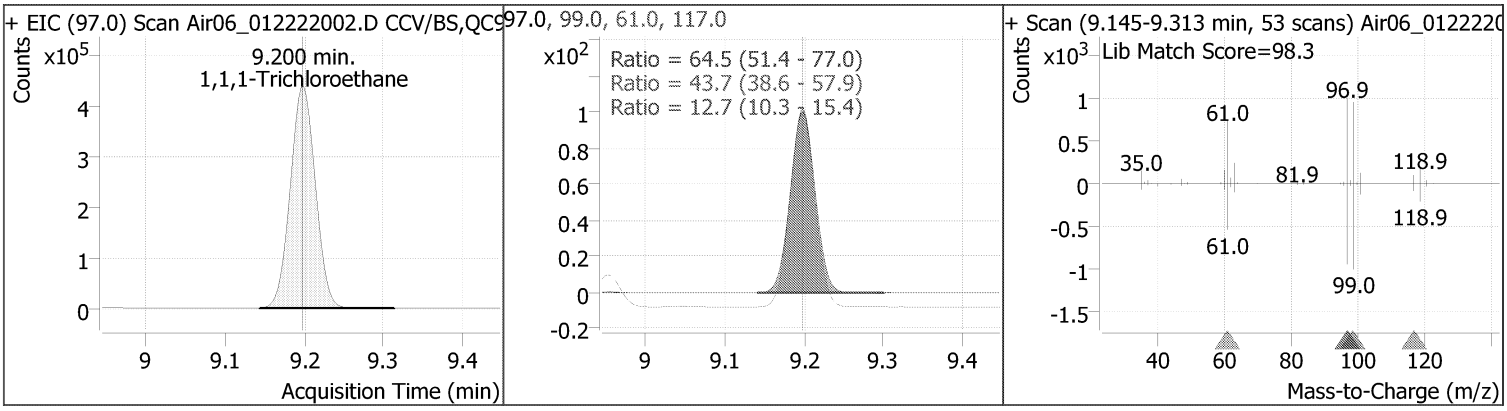

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | 9.5796 | 8.65 | 0.00 | 194453 | 42.0 | 316.9 | 258.1 | 387.2 |
| | | | | | 41.0 | 187.0 | 141.4 | 212.1 |
| | | | | | 71.0 | 98.3 | 79.1 | 118.6 |



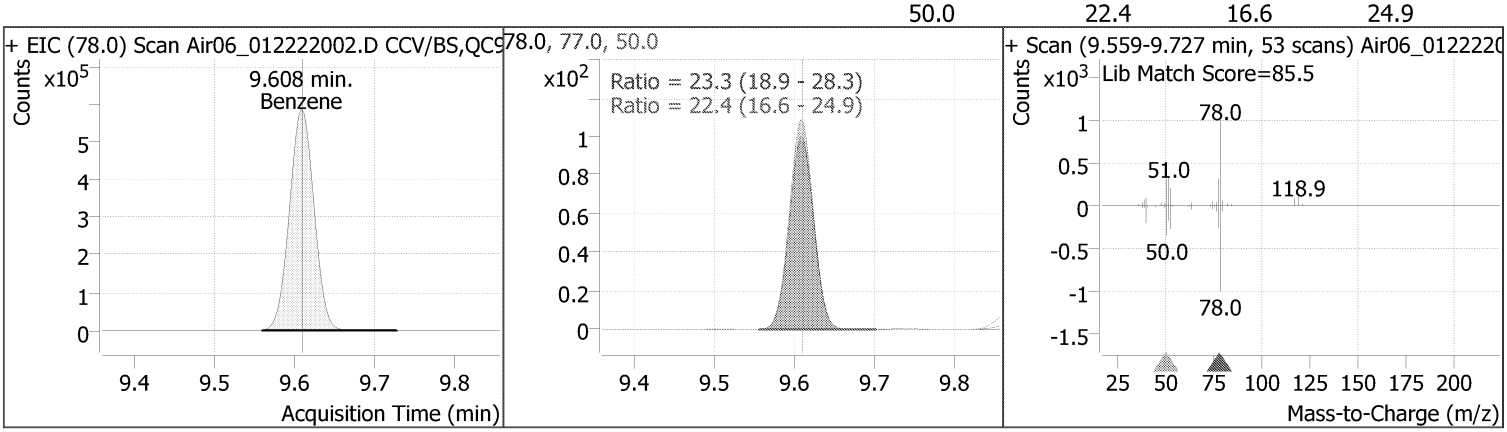

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 11.1567 | 8.95 | 0.00 | 751775 | 49.0 | 30.7 | 25.9 | 38.8 |
| | | | | | 64.0 | 31.2 | 25.3 | 37.9 |
| | | | | | 98.0 | 6.4 | 5.8 | 8.7 |



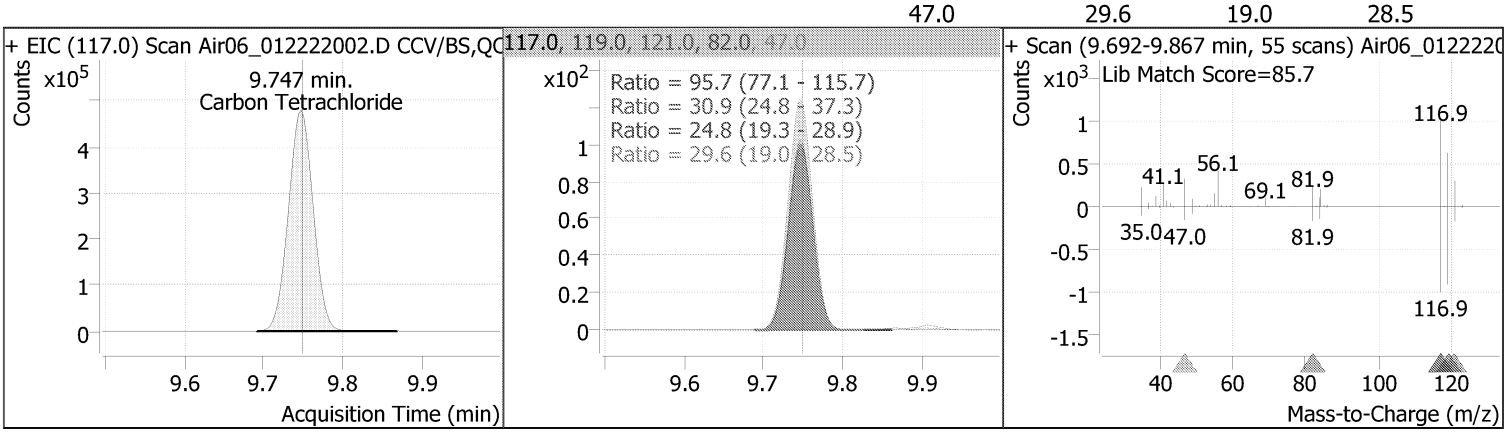
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 10.8557 | 9.20 | 0.00 | 966296 | 99.0 | 64.5 | 51.4 | 77.0 |
| | | | | | 61.0 | 43.7 | 38.6 | 57.9 |
| | | | | | 117.0 | 12.7 | 10.3 | 15.4 |



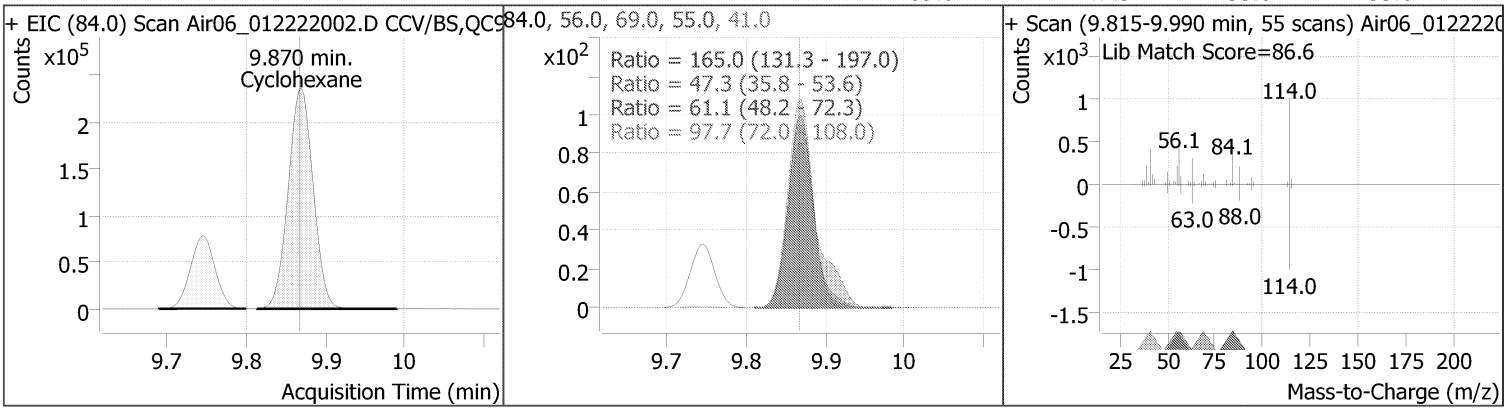

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene | 9.4800 | 9.61 | 0.00 | 1257620 | 77.0 | 23.3 | 18.9 | 28.3 |
| | | | | | 50.0 | 22.4 | 16.6 | 24.9 |



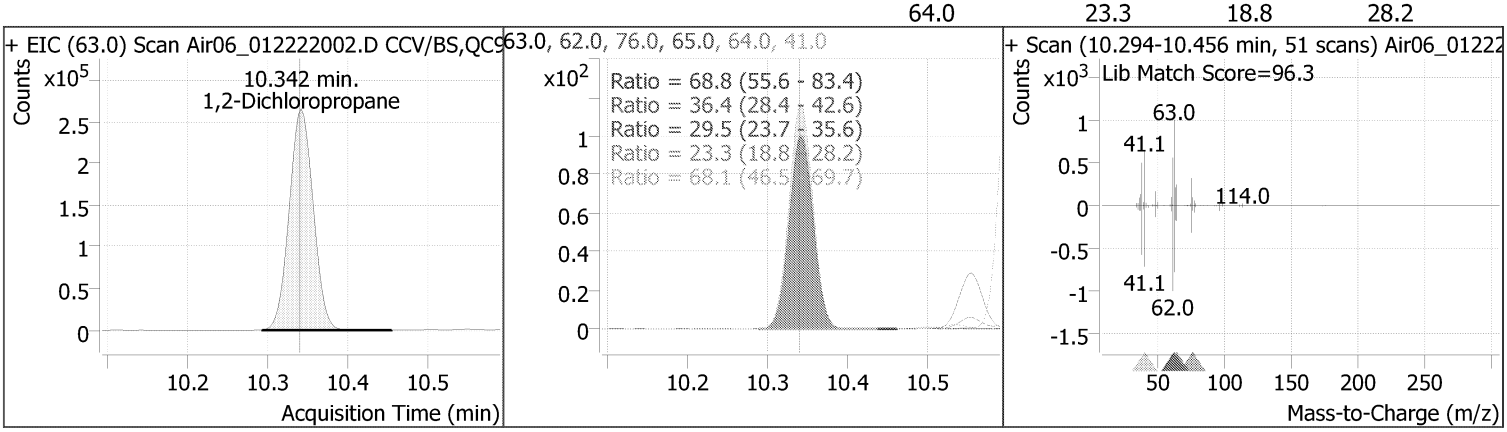

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 10.9165 | 9.75 | 0.00 | 1036672 | 119.0 | 95.7 | 77.1 | 115.7 |
| | | | | | 121.0 | 30.9 | 24.8 | 37.3 |
| | | | | | 82.0 | 24.8 | 19.3 | 28.9 |
| | | | | | 47.0 | 29.6 | 19.0 | 28.5 |



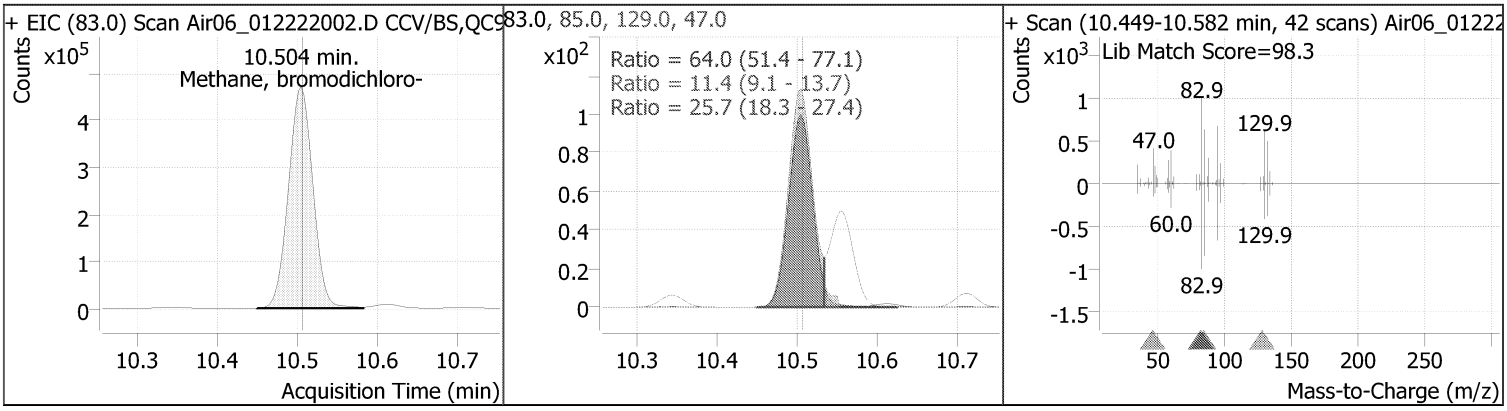
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Cyclohexane | 9.3011 | 9.87 | 0.00 | 515511 | 56.0 | 165.0 | 131.3 | 197.0 |
| | | | | | 41.0 | 97.7 | 72.0 | 108.0 |
| | | | | | 55.0 | 61.1 | 48.2 | 72.3 |
| | | | | | 69.0 | 47.3 | 35.8 | 53.6 |



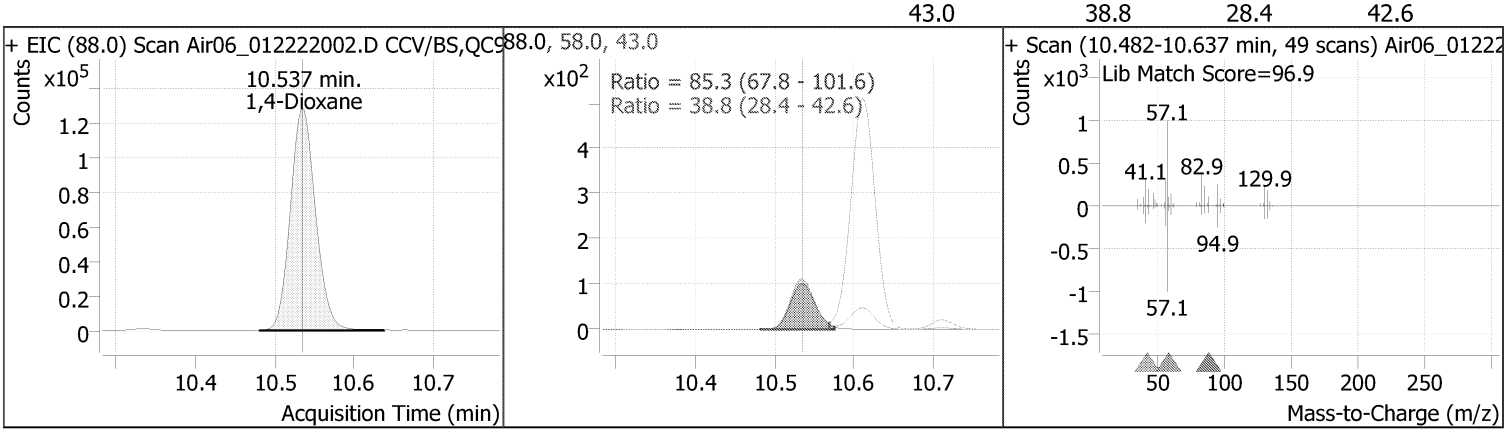

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 8.8676 | 10.34 | 0.00 | 556623 | 62.0 | 68.8 | 55.6 | 83.4 |
| | | | | | 41.0 | 68.1 | 46.5 | 69.7 |
| | | | | | 76.0 | 36.4 | 28.4 | 42.6 |
| | | | | | 65.0 | 29.5 | 23.7 | 35.6 |
| | | | | | 64.0 | 23.3 | 18.8 | 28.2 |



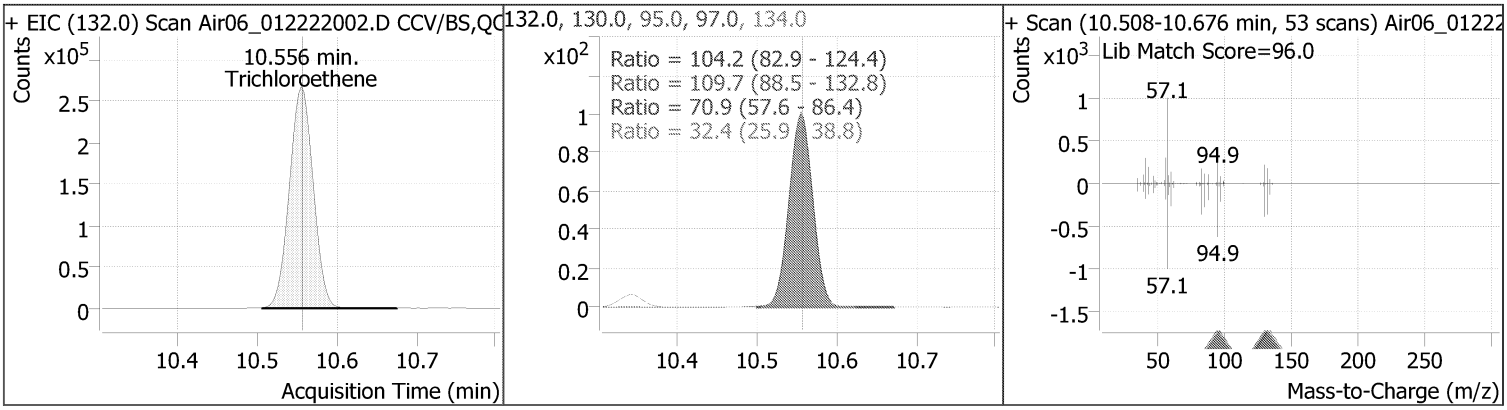

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methane, bromodichloro- | 9.8244 | 10.50 | 0.00 | 1006250 | 85.0 | 64.0 | 51.4 | 77.1 |
| | | | | | 47.0 | 25.7 | 18.3 | 27.4 |
| | | | | | 129.0 | 11.4 | 9.1 | 13.7 |



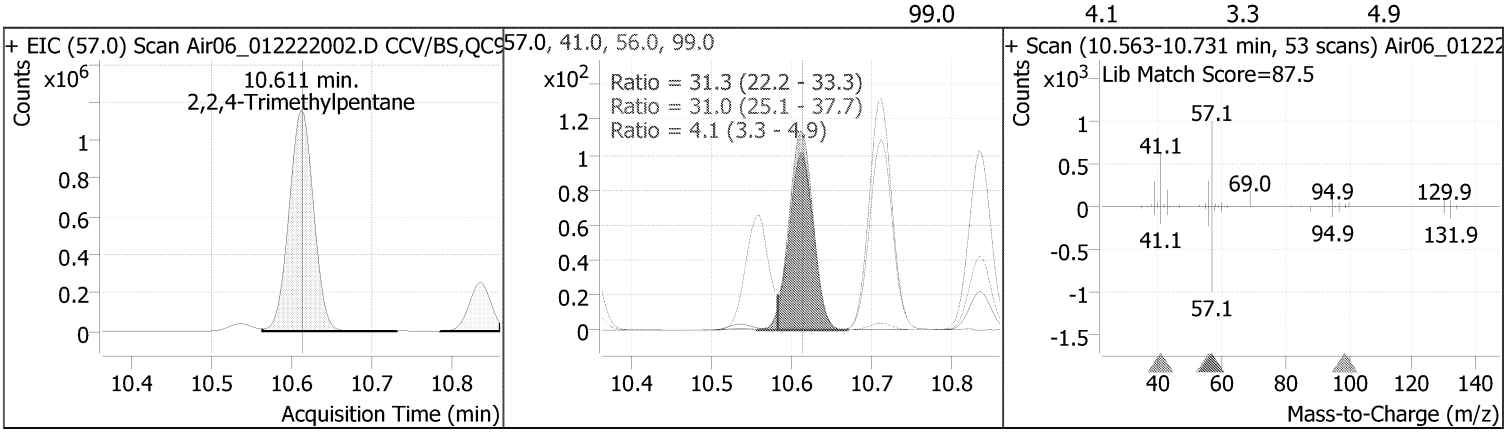
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 8.6016 | 10.54 | 0.00 | 281757 | 58.0 | 85.3 | 67.8 | 101.6 |
| | | | | | 43.0 | 38.8 | 28.4 | 42.6 |



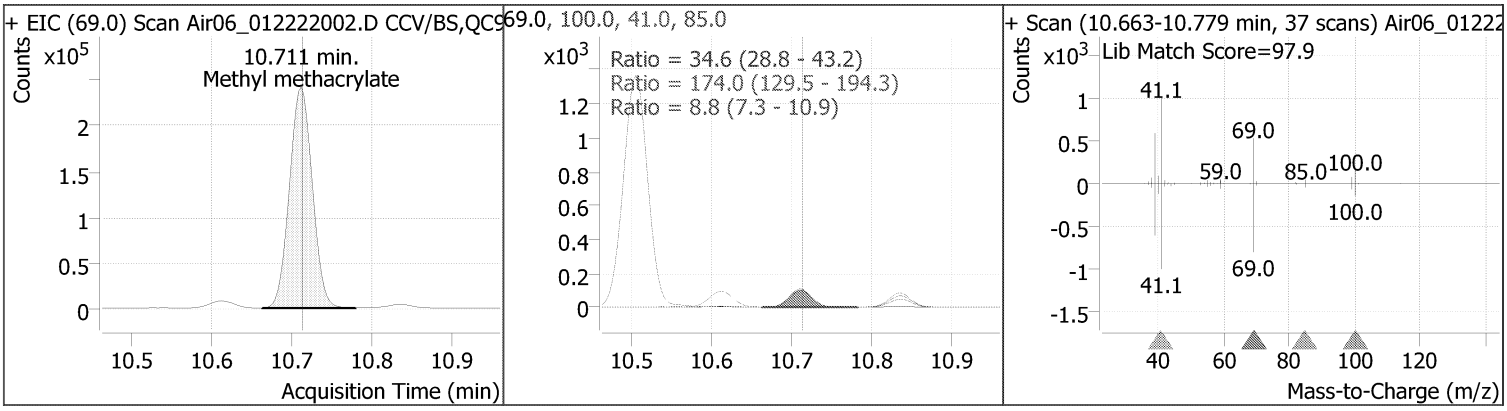

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 8.7009 | 10.56 | 0.00 | 555593 | 95.0 | 109.7 | 88.5 | 132.8 |
| | | | | | 130.0 | 104.2 | 82.9 | 124.4 |
| | | | | | 97.0 | 70.9 | 57.6 | 86.4 |
| | | | | | 134.0 | 32.4 | 25.9 | 38.8 |



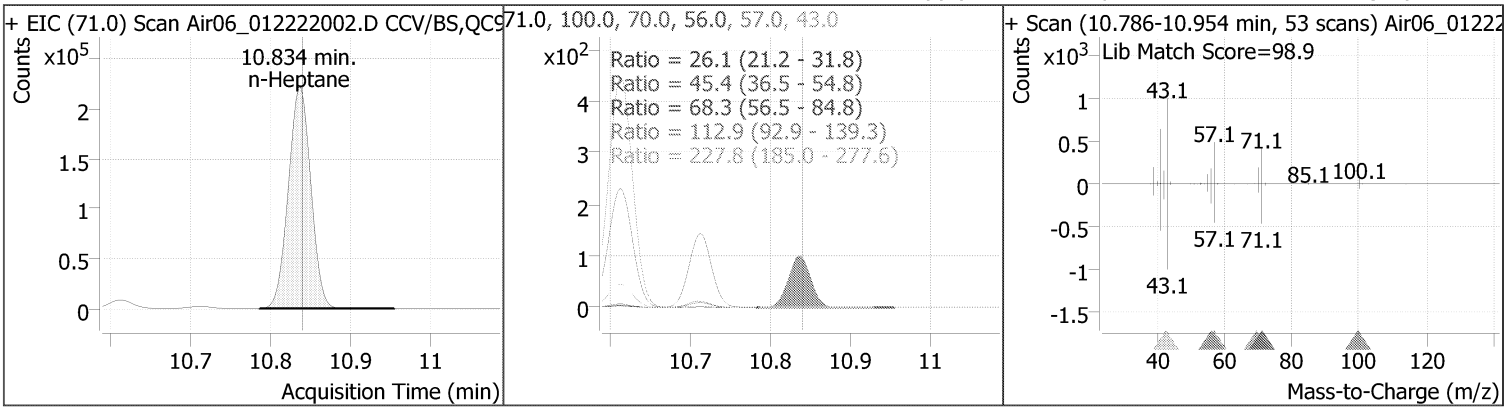

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2,2,4-Trimethylpentane | 8.7102 | 10.61 | 0.00 | 2488269 | 56.0 | 31.0 | 25.1 | 37.7 |
| | | | | | 41.0 | 31.3 | 22.2 | 33.3 |
| | | | | | 99.0 | 4.1 | 3.3 | 4.9 |



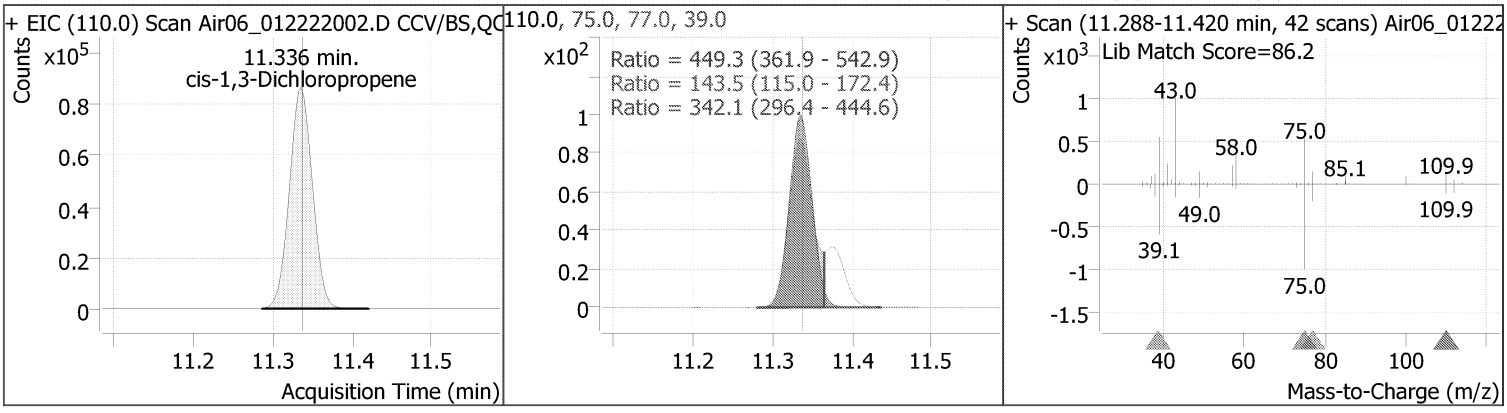
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | 9.0870 | 10.71 | 0.00 | 484196 | 41.0 | 174.0 | 129.5 | 194.3 |
| | | | | | 100.0 | 34.6 | 28.8 | 43.2 |
| | | | | | 85.0 | 8.8 | 7.3 | 10.9 |



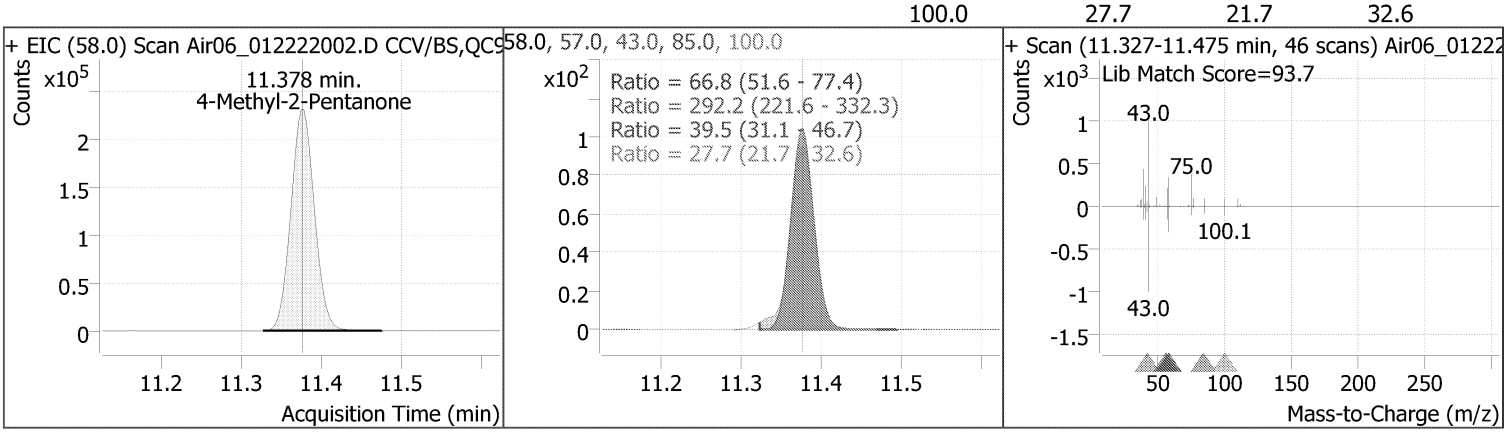

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Heptane | 8.8563 | 10.83 | 0.00 | 437047 | 43.0 | 227.8 | 185.0 | 277.6 |
| | | | | | 57.0 | 112.9 | 92.9 | 139.3 |
| | | | | | 56.0 | 68.3 | 56.5 | 84.8 |
| | | | | | 70.0 | 45.4 | 36.5 | 54.8 |
| | | | | | 100.0 | 26.1 | 21.2 | 31.8 |



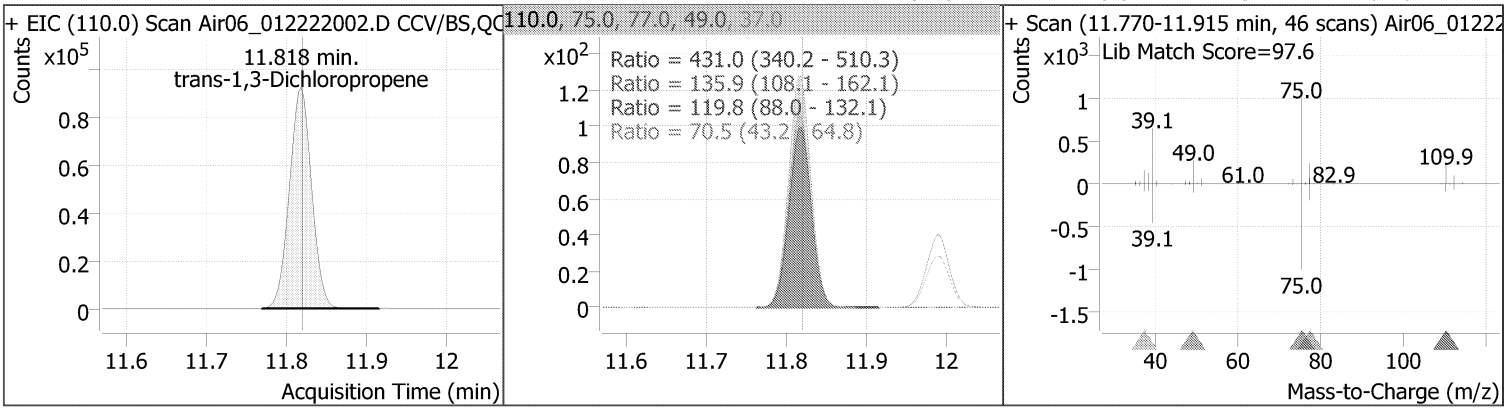

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 8.7368 | 11.34 | 0.00 | 174094 | 75.0 | 449.3 | 361.9 | 542.9 |
| | | | | | 39.0 | 342.1 | 296.4 | 444.6 |
| | | | | | 77.0 | 143.5 | 115.0 | 172.4 |



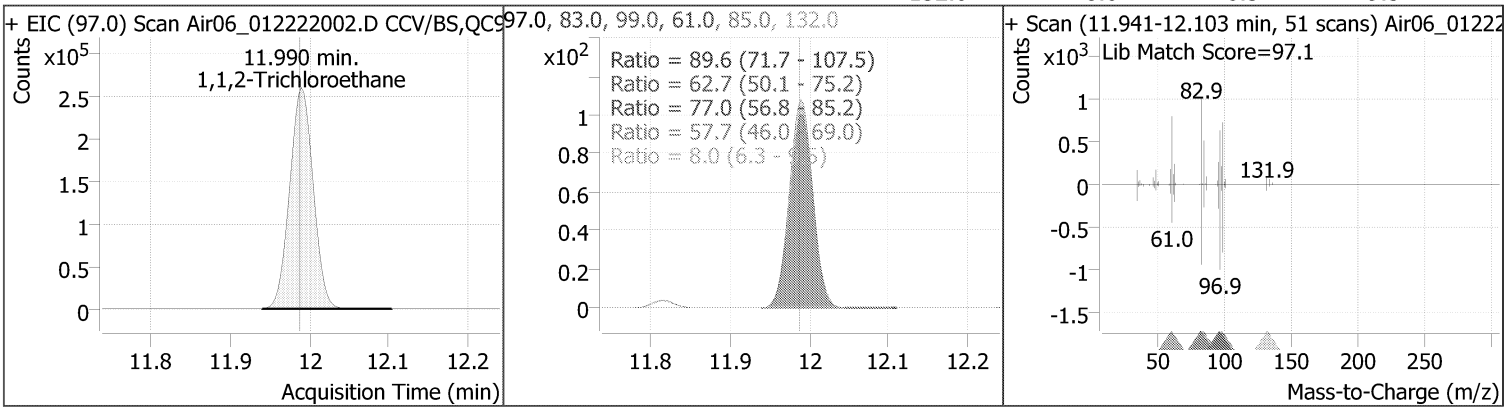
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 8.6359 | 11.38 | 0.00 | 475445 | 43.0 | 292.2 | 221.6 | 332.3 |
| | | | | | 57.0 | 66.8 | 51.6 | 77.4 |
| | | | | | 85.0 | 39.5 | 31.1 | 46.7 |
| | | | | | 100.0 | 27.7 | 21.7 | 32.6 |



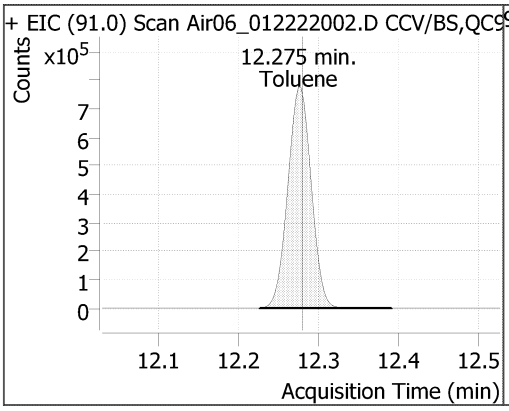

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 8.7623 | 11.82 | 0.00 | 179016 | 75.0 | 431.0 | 340.2 | 510.3 |
| | | | | | 77.0 | 135.9 | 108.1 | 162.1 |
| | | | | | 49.0 | 119.8 | 88.0 | 132.1 |
| | | | | | 37.0 | 70.5 | 43.2 | 64.8 |

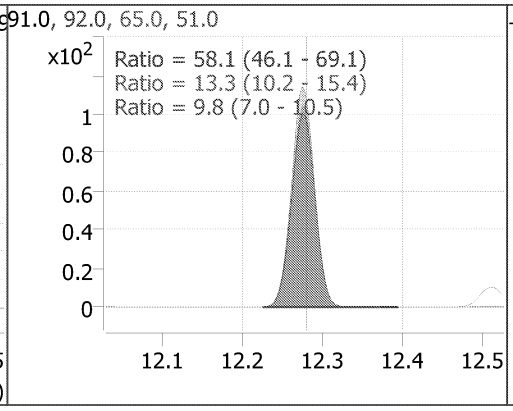


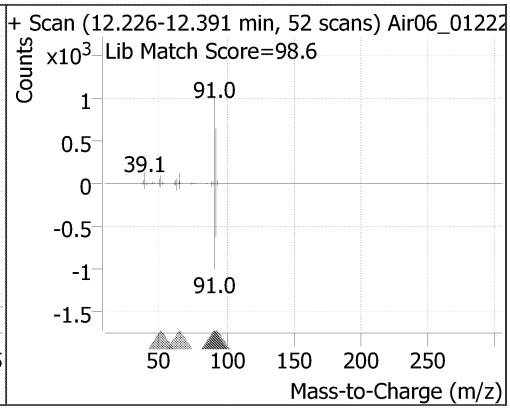

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 8.9871 | 11.99 | 0.00 | 537234 | 83.0 | 89.6 | 71.7 | 107.5 |
| | | | | | 61.0 | 77.0 | 56.8 | 85.2 |
| | | | | | 99.0 | 62.7 | 50.1 | 75.2 |
| | | | | | 85.0 | 57.7 | 46.0 | 69.0 |
| | | | | | 132.0 | 8.0 | 6.3 | 9.5 |



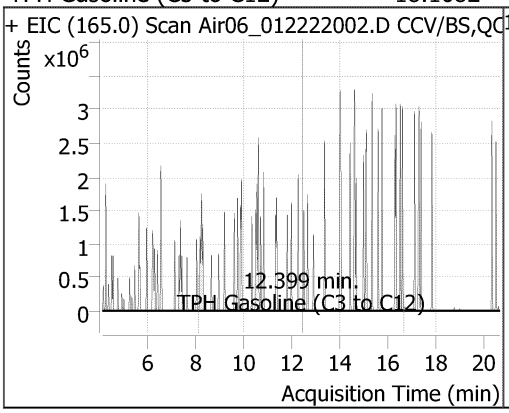
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Toluene | 8.7480 | 12.27 | 0.00 | 1588989 | 92.0 | 58.1 | 46.1 | 69.1 |
| | | | | | 65.0 | 13.3 | 10.2 | 15.4 |
| | | | | | 51.0 | 9.8 | 7.0 | 10.5 |

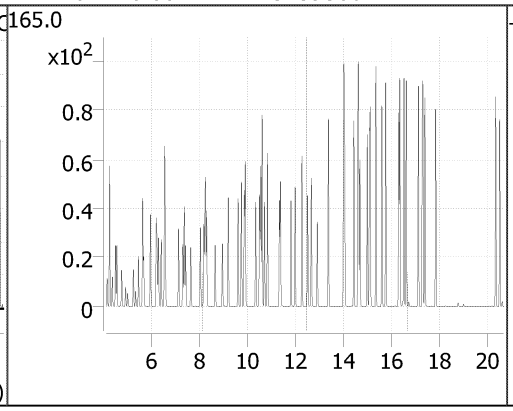


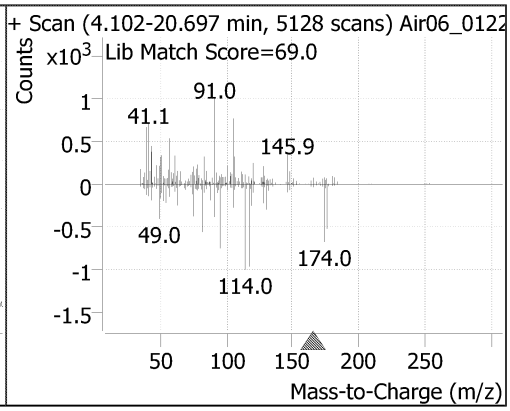



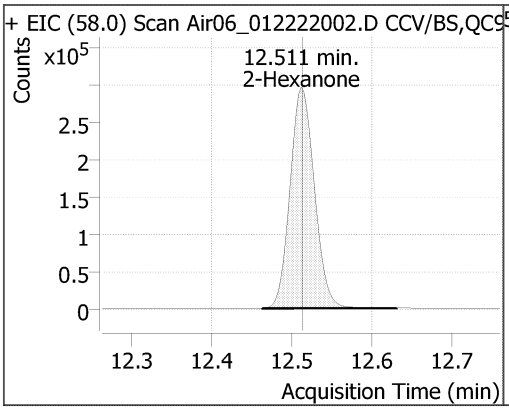

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C3 to C12) | 18.1082 | 12.40 | 0.00 | 234593067 | | | | |

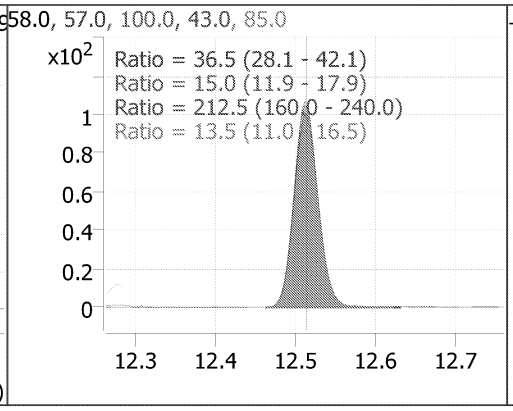


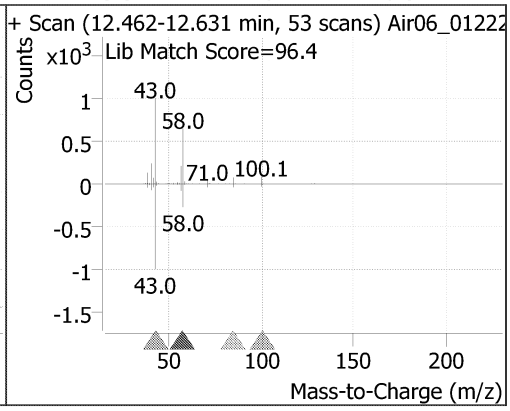



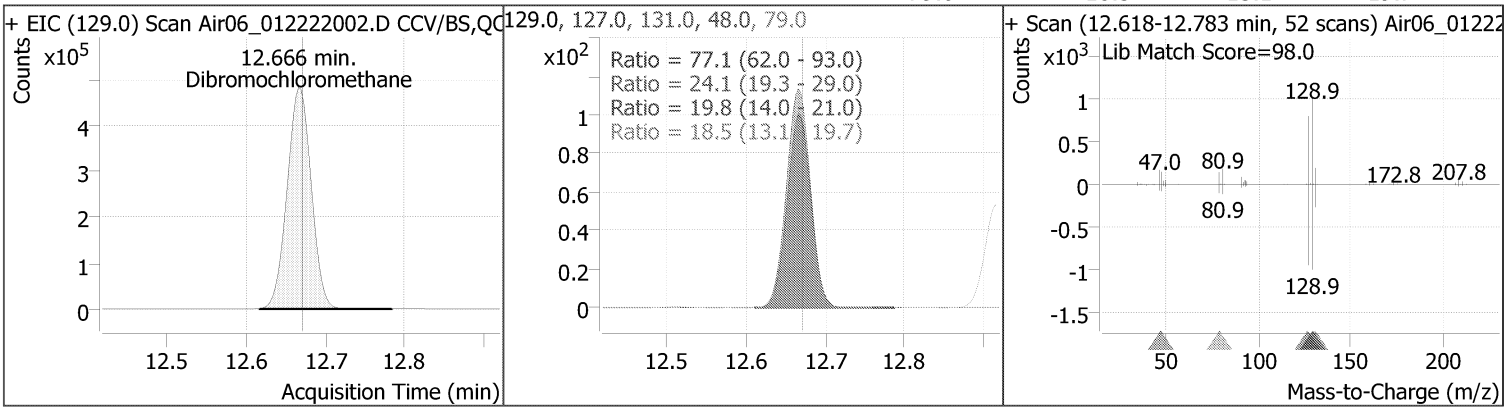

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | 8.8988 | 12.51 | 0.00 | 629247 | 43.0 | 212.5 | 160.0 | 240.0 |
| | | | | | 57.0 | 36.5 | 28.1 | 42.1 |
| | | | | | 100.0 | 15.0 | 11.9 | 17.9 |
| | | | | | 85.0 | 13.5 | 11.0 | 16.5 |



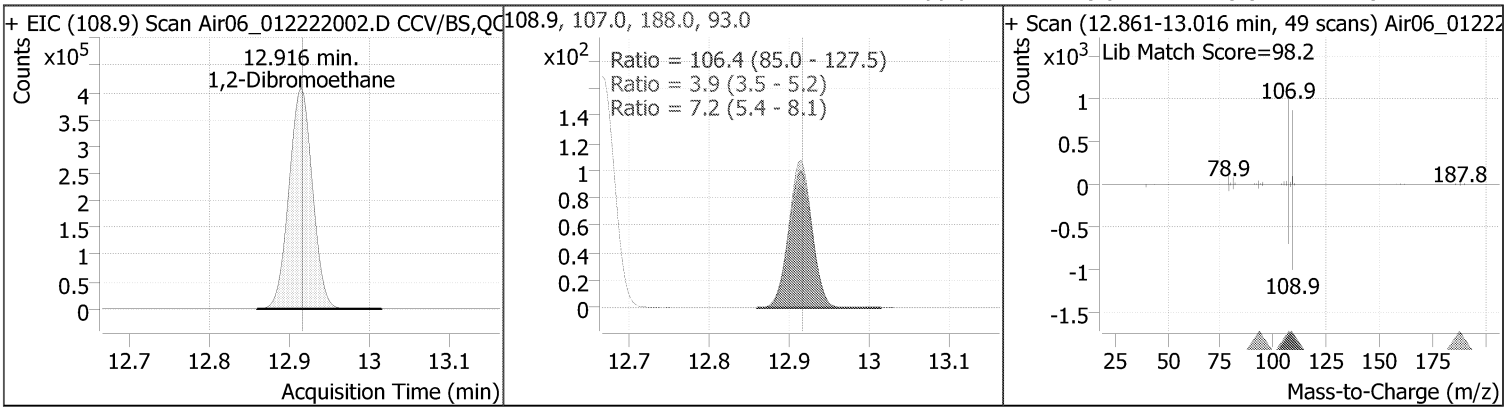



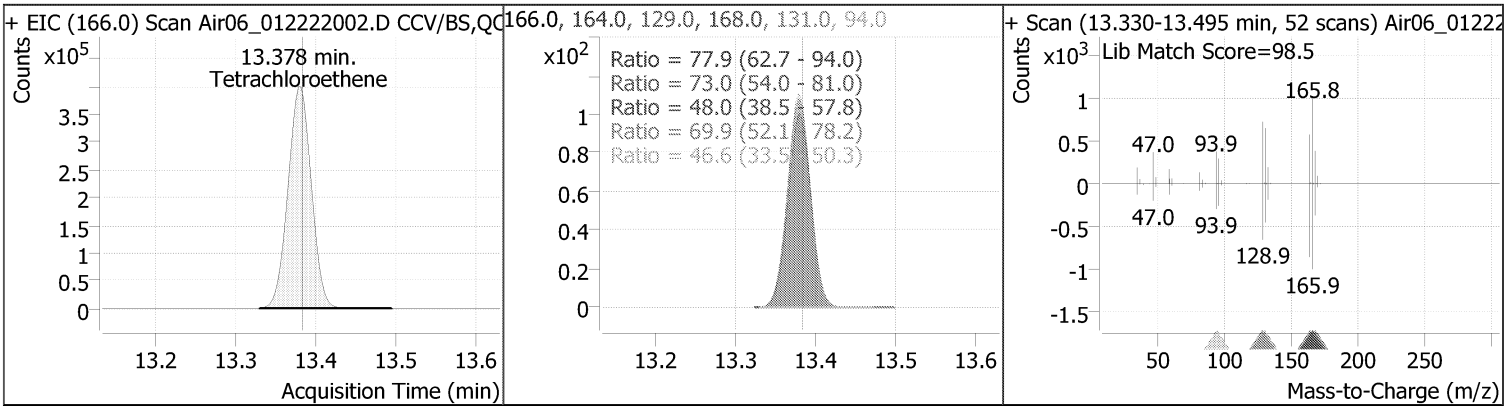
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 9.3932 | 12.67 | 0.00 | 1019352 | 127.0 | 77.1 | 62.0 | 93.0 |
| | | | | | 131.0 | 24.1 | 19.3 | 29.0 |
| | | | | | 48.0 | 19.8 | 14.0 | 21.0 |
| | | | | | 79.0 | 18.5 | 13.1 | 19.7 |



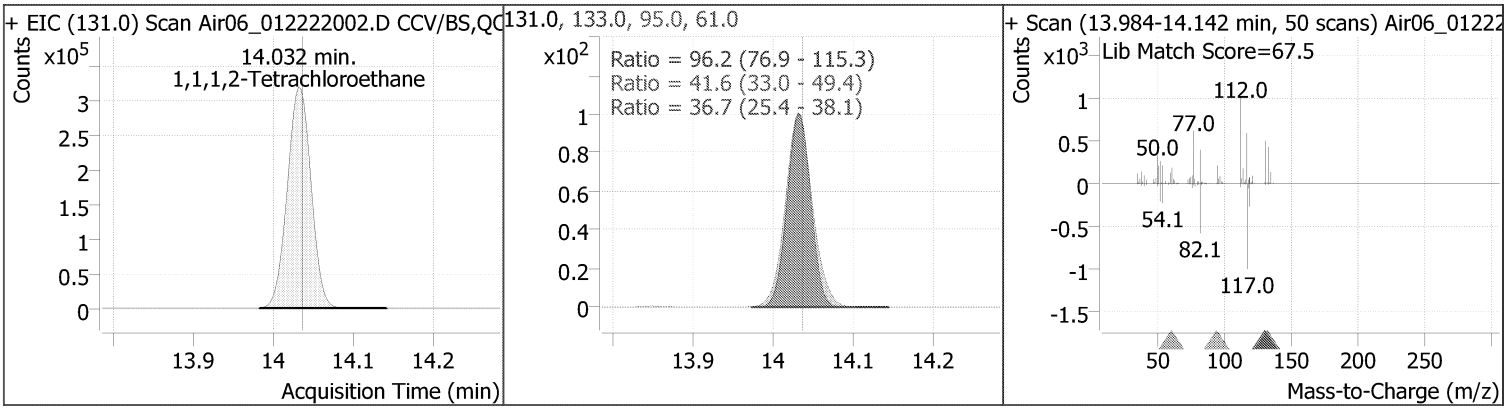

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 9.0856 | 12.92 | 0.00 | 835561 | 107.0 | 106.4 | 85.0 | 127.5 |
| | | | | | 93.0 | 7.2 | 5.4 | 8.1 |
| | | | | | 188.0 | 3.9 | 3.5 | 5.2 |



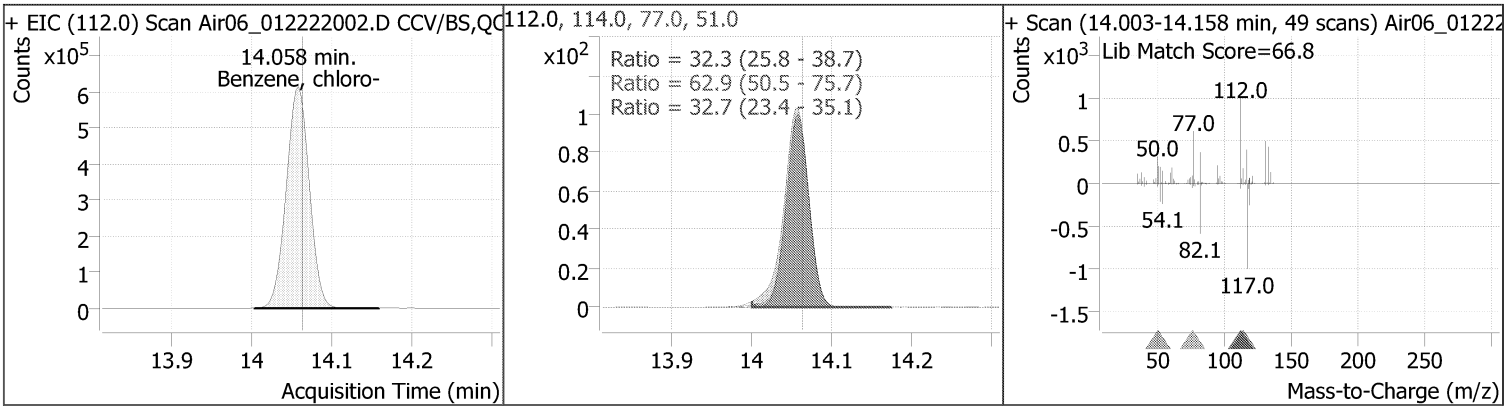

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 8.6576 | 13.38 | 0.00 | 813023 | 164.0 | 77.9 | 62.7 | 94.0 |
| | | | | | 129.0 | 73.0 | 54.0 | 81.0 |
| | | | | | 131.0 | 69.9 | 52.1 | 78.2 |
| | | | | | 168.0 | 48.0 | 38.5 | 57.8 |
| | | | | | 94.0 | 46.6 | 33.5 | 50.3 |



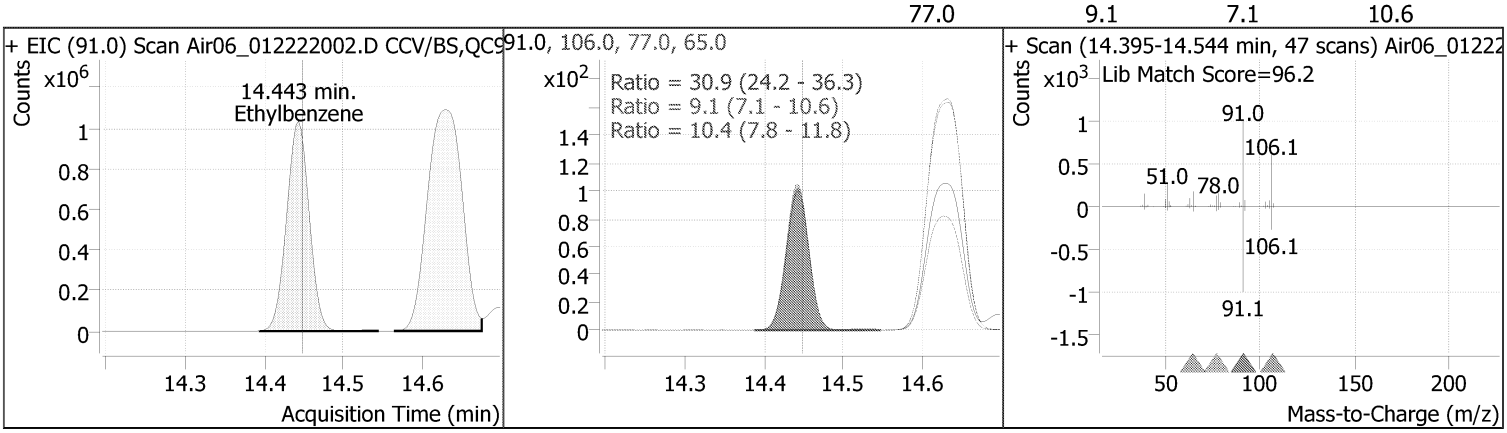
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 9.5469 | 14.03 | 0.00 | 662588 | 133.0 | 96.2 | 76.9 | 115.3 |
| | | | | | 95.0 | 41.6 | 33.0 | 49.4 |
| | | | | | 61.0 | 36.7 | 25.4 | 38.1 |



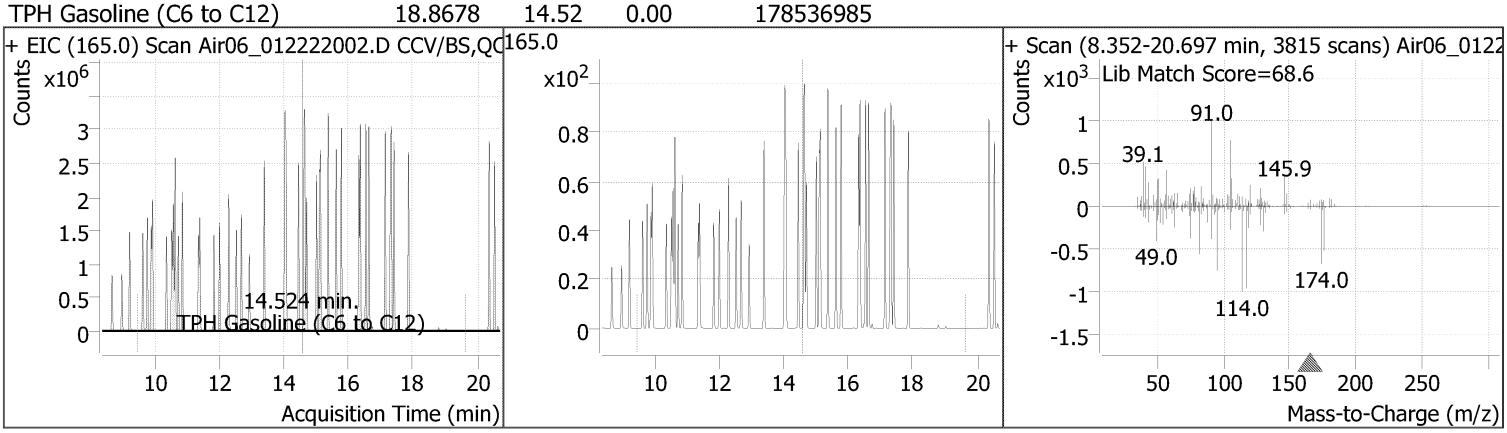

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzene, chloro- | 8.9806 | 14.06 | 0.00 | 1236852 | 77.0 | 62.9 | 50.5 | 75.7 |
| | | | | | 114.0 | 32.3 | 25.8 | 38.7 |
| | | | | | 51.0 | 32.7 | 23.4 | 35.1 |



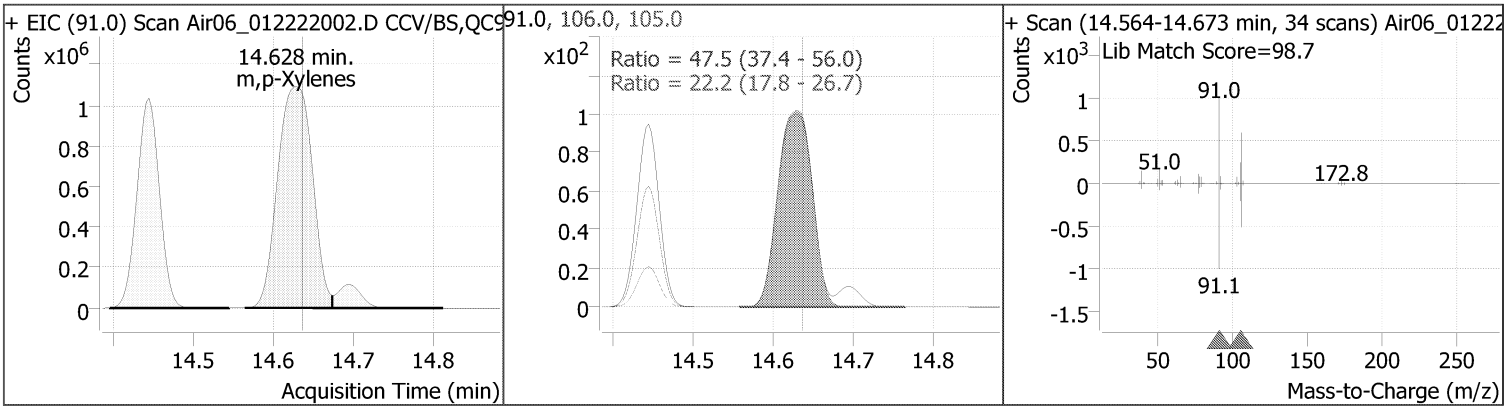

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 9.2752 | 14.44 | 0.00 | 2029477 | 106.0 | 30.9 | 24.2 | 36.3 |
| | | | | | 65.0 | 10.4 | 7.8 | 11.8 |
| | | | | | 77.0 | 9.1 | 7.1 | 10.6 |



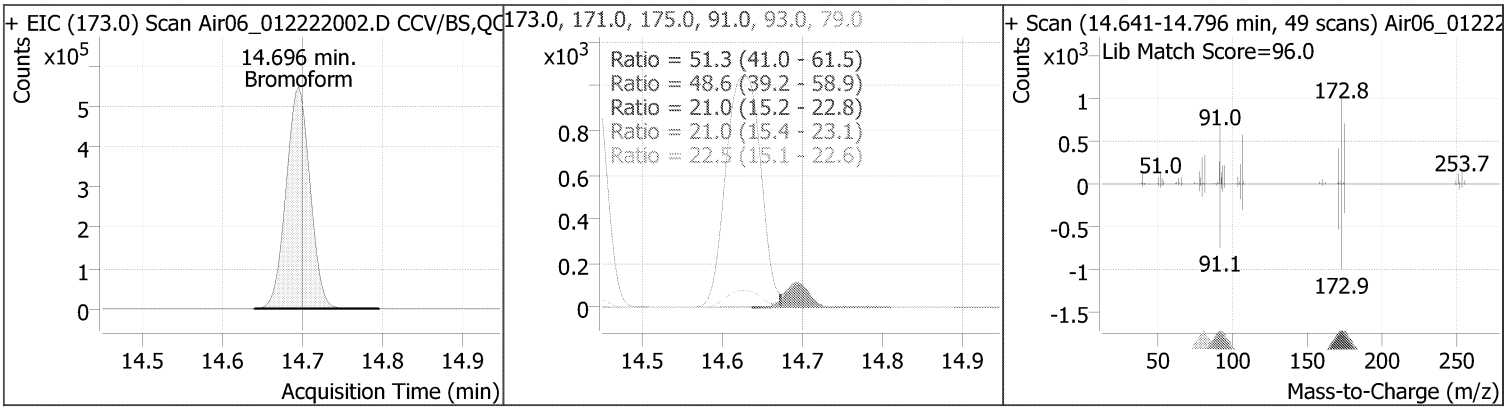
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| TPH Gasoline (C6 to C12) | 18.8678 | 14.52 | 0.00 | 178536985 | | | | |



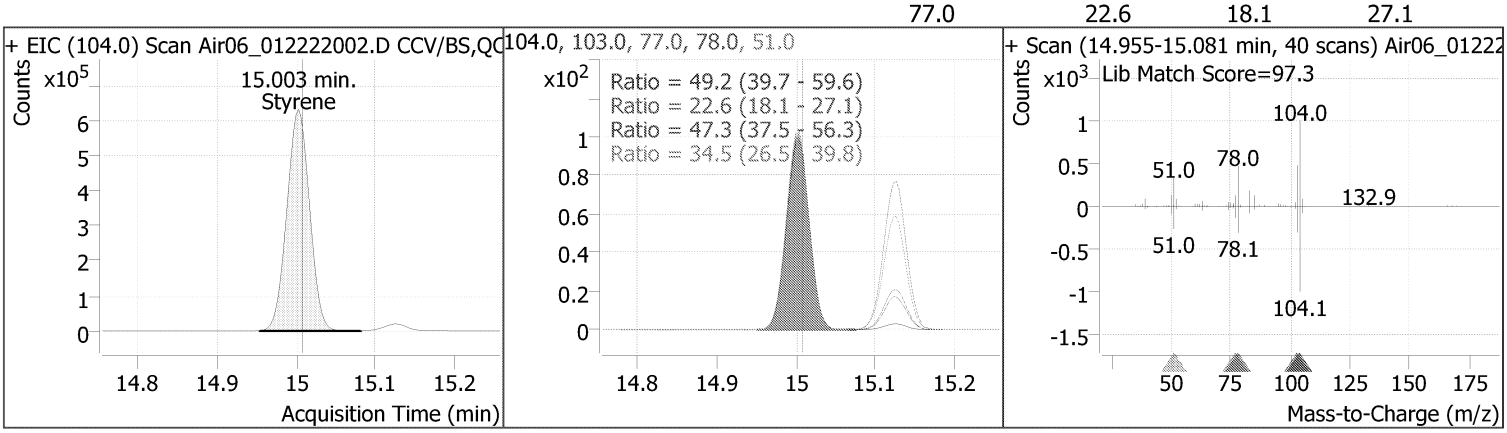

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylenes | 18.7858 | 14.63 | -0.01 | 3305788 | 106.0 | 47.5 | 37.4 | 56.0 |
| | | | | | 105.0 | 22.2 | 17.8 | 26.7 |



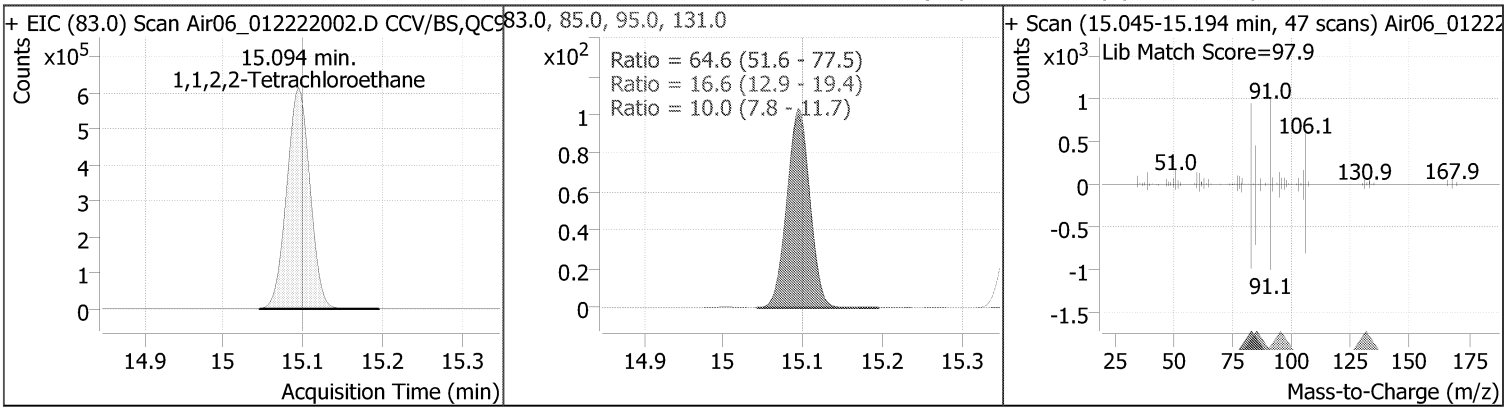

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Bromoform | 9.4566 | 14.70 | 0.00 | 1139779 | 171.0 | 51.3 | 41.0 | 61.5 |
| | | | | | 175.0 | 48.6 | 39.2 | 58.9 |
| | | | | | 93.0 | 21.0 | 15.4 | 23.1 |
| | | | | | 91.0 | 21.0 | 15.2 | 22.8 |
| | | | | | 79.0 | 22.5 | 15.1 | 22.6 |



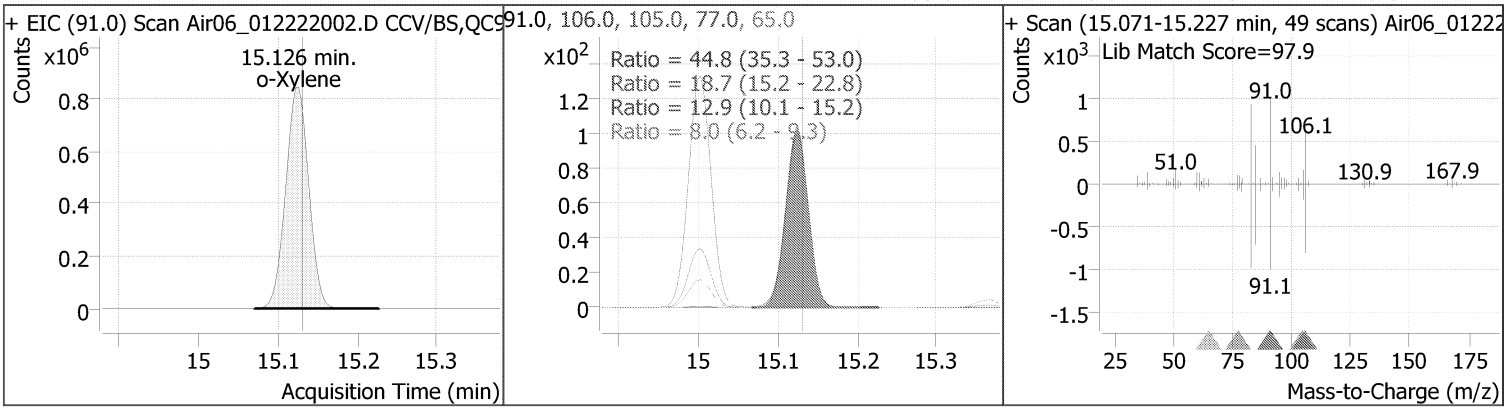
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Styrene | 8.9642 | 15.00 | 0.00 | 1250078 | 103.0 | 49.2 | 39.7 | 59.6 |
| | | | | | 78.0 | 47.3 | 37.5 | 56.3 |
| | | | | | 51.0 | 34.5 | 26.5 | 39.8 |
| | | | | | 77.0 | 22.6 | 18.1 | 27.1 |



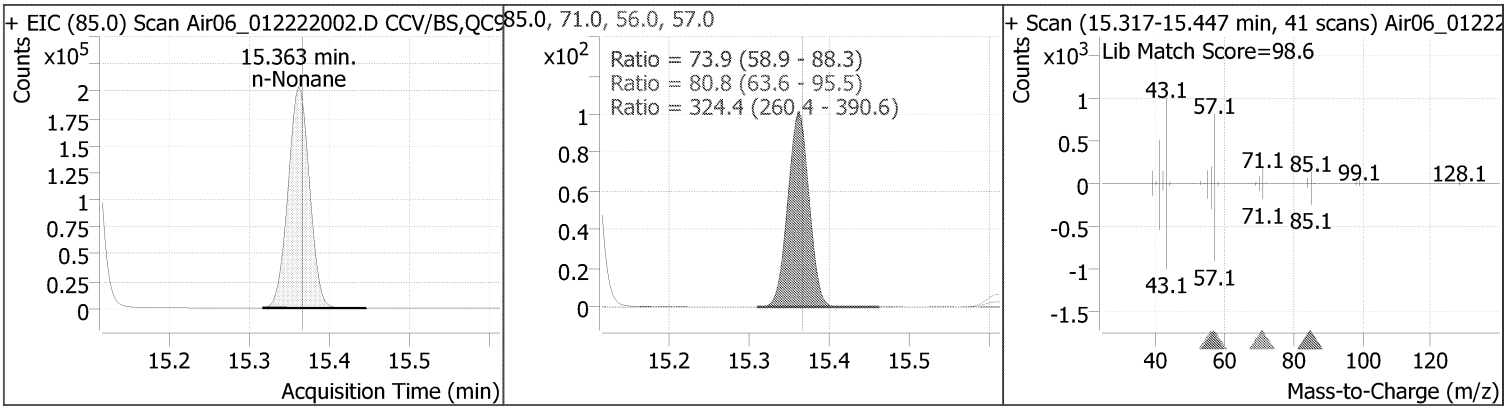

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 9.3581 | 15.09 | 0.00 | 1244402 | 85.0 | 64.6 | 51.6 | 77.5 |
| | | | | | 95.0 | 16.6 | 12.9 | 19.4 |
| | | | | | 131.0 | 10.0 | 7.8 | 11.7 |



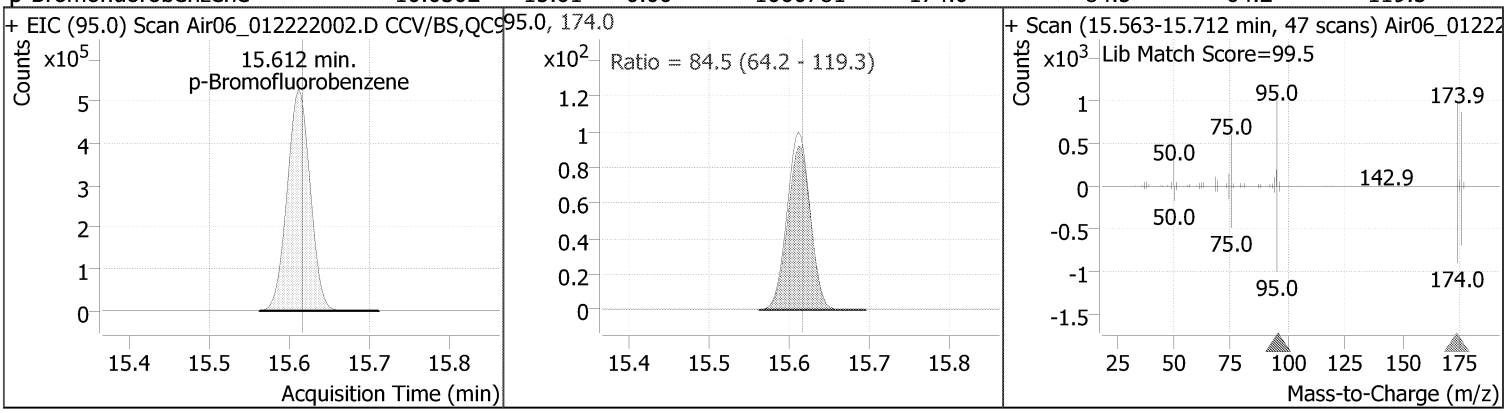

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| o-Xylene | 9.3895 | 15.13 | 0.00 | 1698748 | 106.0 | 44.8 | 35.3 | 53.0 |
| | | | | | 105.0 | 18.7 | 15.2 | 22.8 |
| | | | | | 77.0 | 12.9 | 10.1 | 15.2 |
| | | | | | 65.0 | 8.0 | 6.2 | 9.3 |



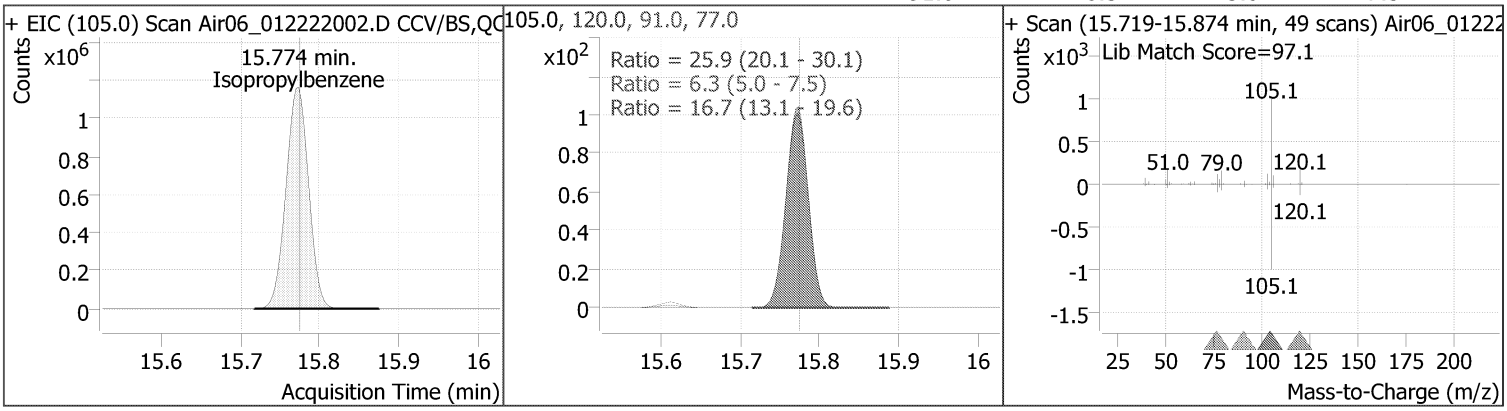
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Nonane | 9.0925 | 15.36 | 0.00 | 380043 | 57.0 | 324.4 | 260.4 | 390.6 |
| | | | | | 56.0 | 80.8 | 63.6 | 95.5 |
| | | | | | 71.0 | 73.9 | 58.9 | 88.3 |



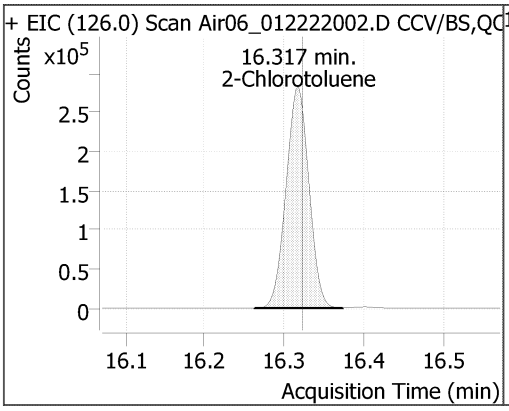

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| p-Bromofluorobenzene | 10.0302 | 15.61 | 0.00 | 1060781 | 174.0 | 84.5 | 64.2 | 119.3 |

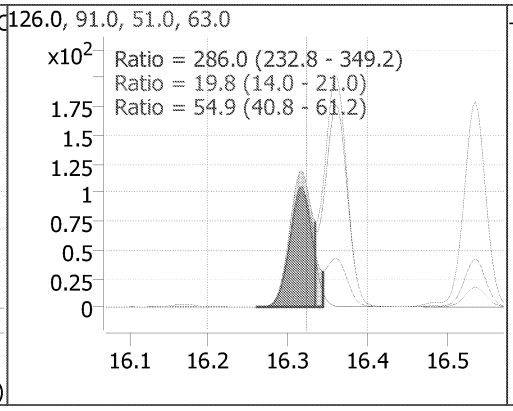


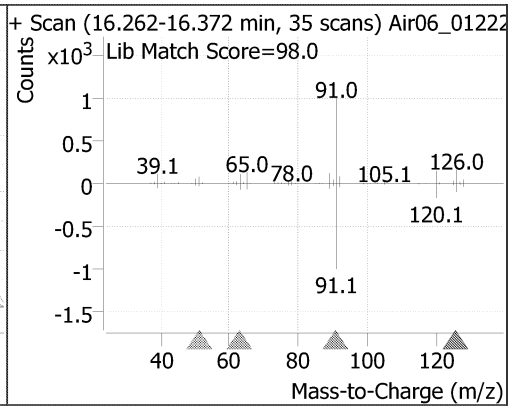

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 9.2729 | 15.77 | 0.00 | 2299738 | 120.0 | 25.9 | 20.1 | 30.1 |
| | | | | | 77.0 | 16.7 | 13.1 | 19.6 |
| | | | | | 91.0 | 6.3 | 5.0 | 7.5 |



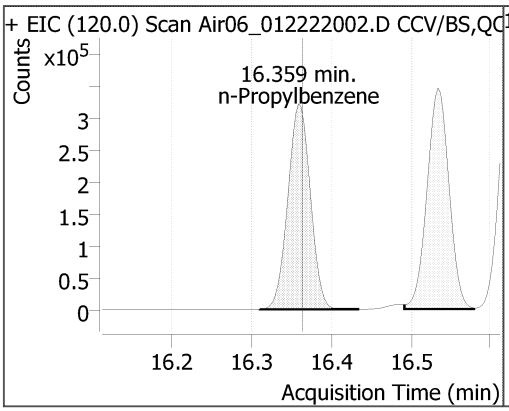
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 8.9348 | 16.32 | 0.00 | 564387 | 91.0 | 286.0 | 232.8 | 349.2 |
| | | | | | 63.0 | 54.9 | 40.8 | 61.2 |
| | | | | | 51.0 | 19.8 | 14.0 | 21.0 |

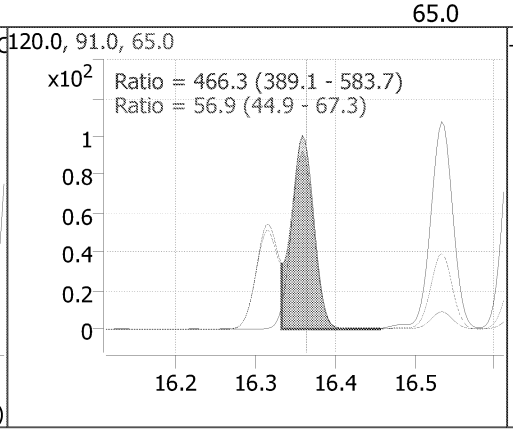


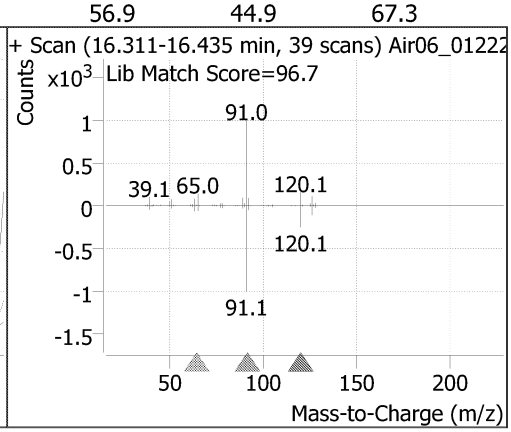



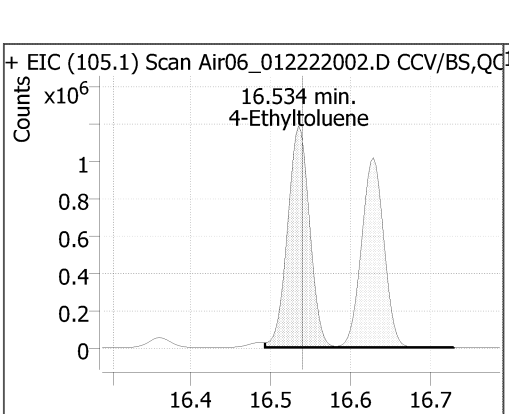

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 9.1207 | 16.36 | 0.00 | 632006 | 91.0 | 466.3 | 389.1 | 583.7 |
| | | | | | 65.0 | 56.9 | 44.9 | 67.3 |

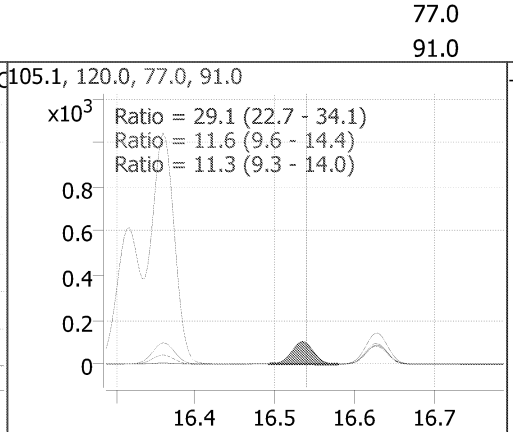


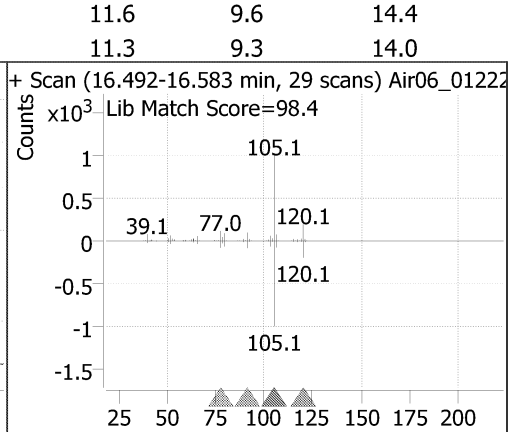



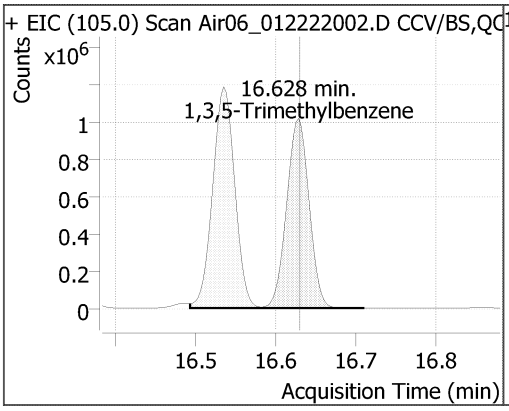

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | 9.3535 | 16.53 | 0.00 | 2295596 | 120.0 | 29.1 | 22.7 | 34.1 |
| | | | | | 77.0 | 11.6 | 9.6 | 14.4 |
| | | | | | 91.0 | 11.3 | 9.3 | 14.0 |

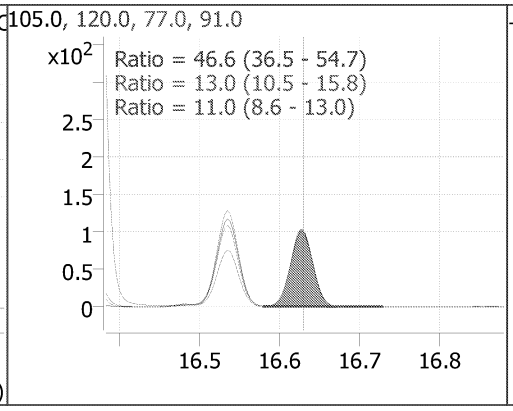


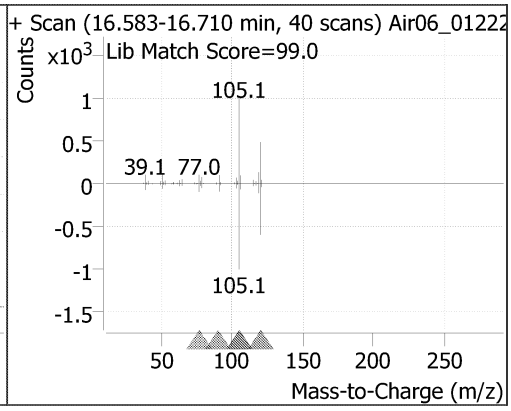



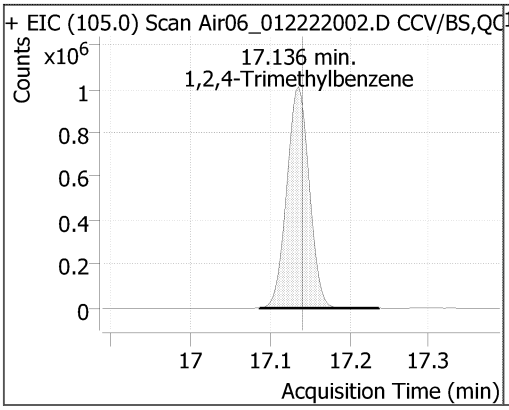
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 9.3782 | 16.63 | 0.00 | 1992490 | 120.0 | 46.6 | 36.5 | 54.7 |
| | | | | | 77.0 | 13.0 | 10.5 | 15.8 |
| | | | | | 91.0 | 11.0 | 8.6 | 13.0 |

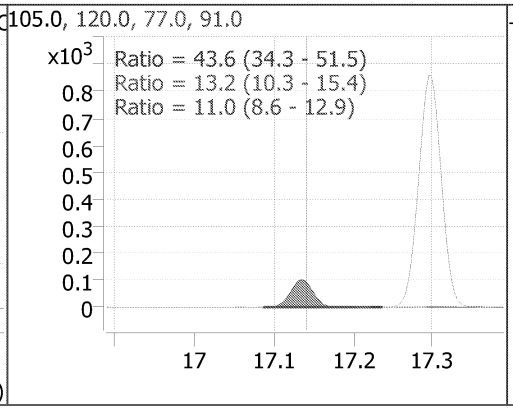


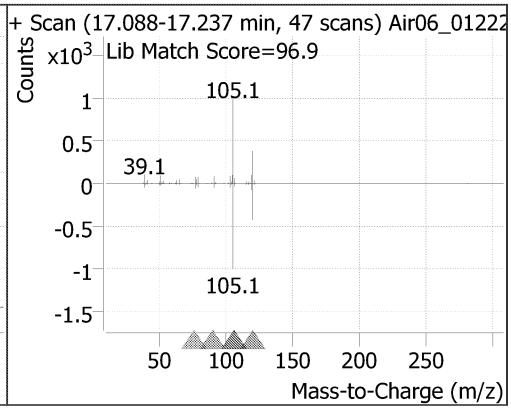



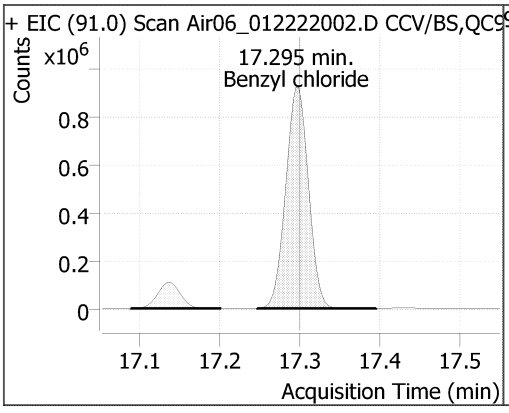

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 9.4044 | 17.14 | 0.00 | 1984491 | 120.0 | 43.6 | 34.3 | 51.5 |
| | | | | | 77.0 | 13.2 | 10.3 | 15.4 |
| | | | | | 91.0 | 11.0 | 8.6 | 12.9 |

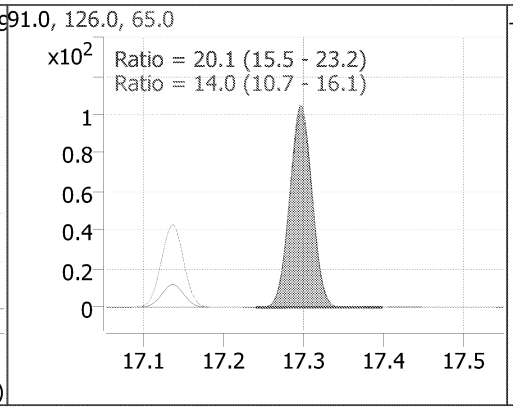


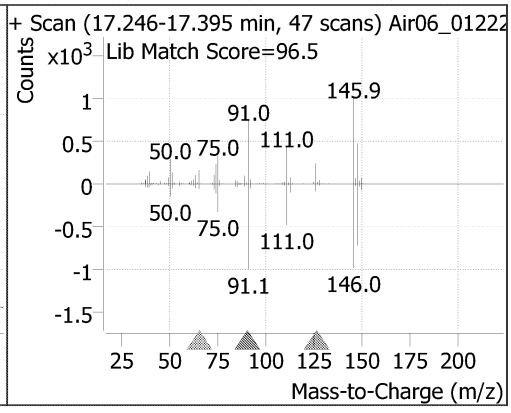



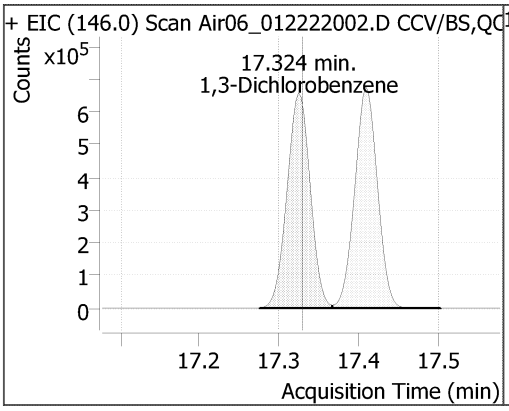

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | 9.9439 | 17.29 | -0.01 | 1845045 | 126.0 | 20.1 | 15.5 | 23.2 |
| | | | | | 65.0 | 14.0 | 10.7 | 16.1 |

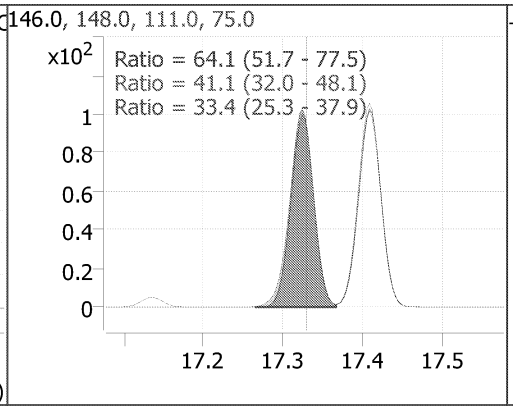


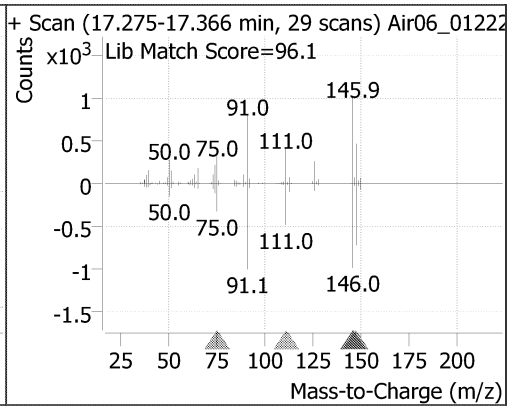



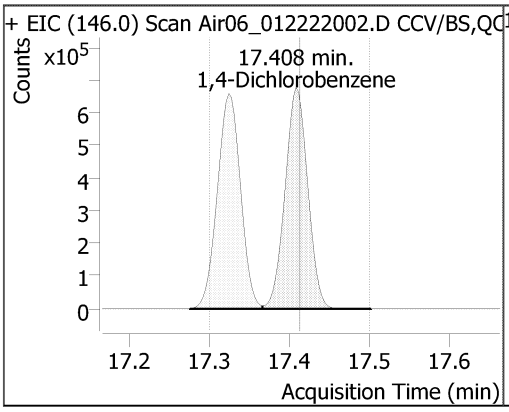
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 9.1958 | 17.32 | 0.00 | 1330997 | 148.0 | 64.1 | 51.7 | 77.5 |
| | | | | | 111.0 | 41.1 | 32.0 | 48.1 |
| | | | | | 75.0 | 33.4 | 25.3 | 37.9 |

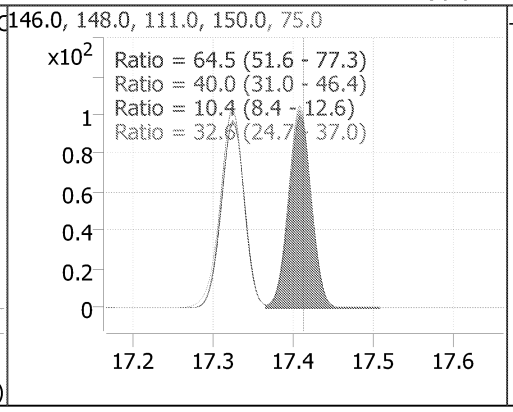


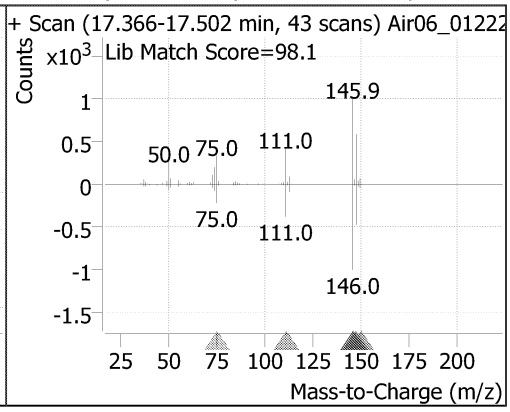



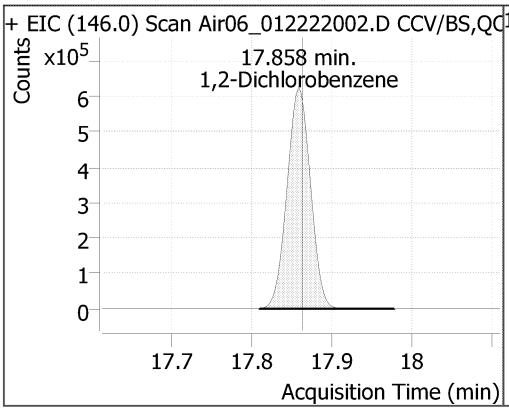

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 9.1368 | 17.41 | -0.01 | 1337268 | 148.0 | 64.5 | 51.6 | 77.3 |
| | | | | | 111.0 | 40.0 | 31.0 | 46.4 |
| | | | | | 75.0 | 32.6 | 24.7 | 37.0 |
| | | | | | 150.0 | 10.4 | 8.4 | 12.6 |

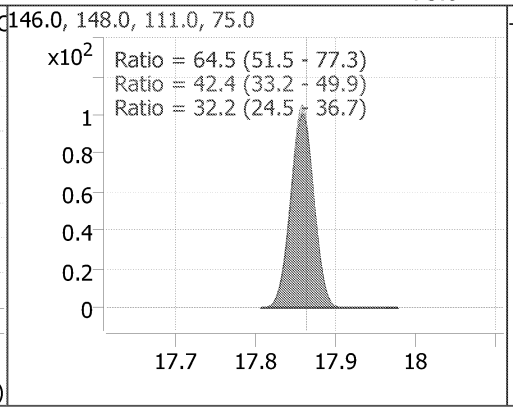


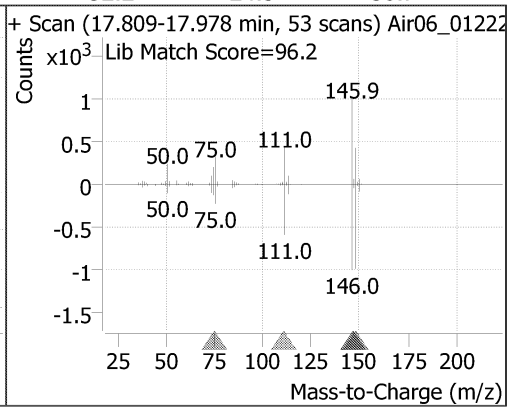



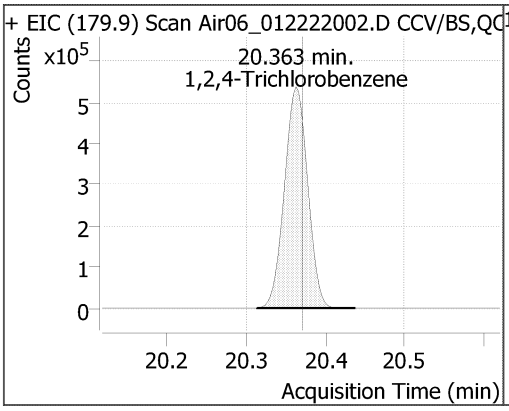

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 9.0512 | 17.86 | 0.00 | 1277756 | 148.0 | 64.5 | 51.5 | 77.3 |
| | | | | | 111.0 | 42.4 | 33.2 | 49.9 |
| | | | | | 75.0 | 32.2 | 24.5 | 36.7 |

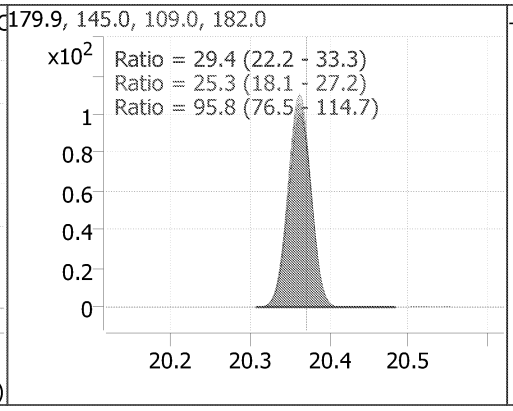


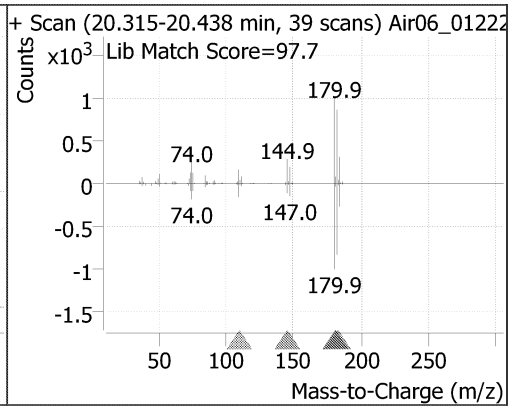



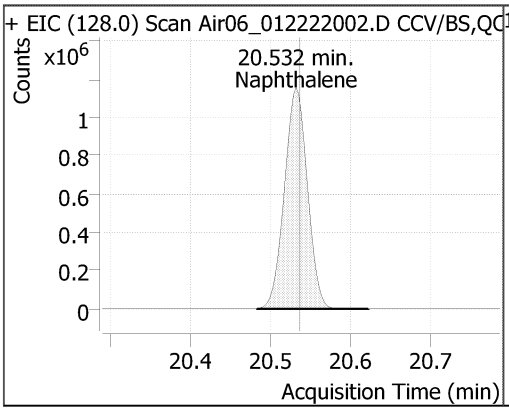
| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 9.3989 | 20.36 | -0.01 | 1093346 | 182.0 | 95.8 | 76.5 | 114.7 |
| | | | | | 145.0 | 29.4 | 22.2 | 33.3 |
| | | | | | 109.0 | 25.3 | 18.1 | 27.2 |

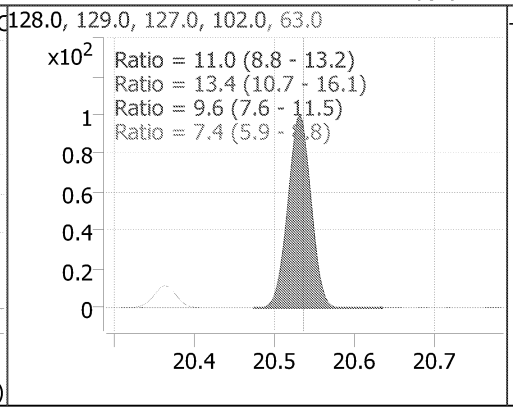


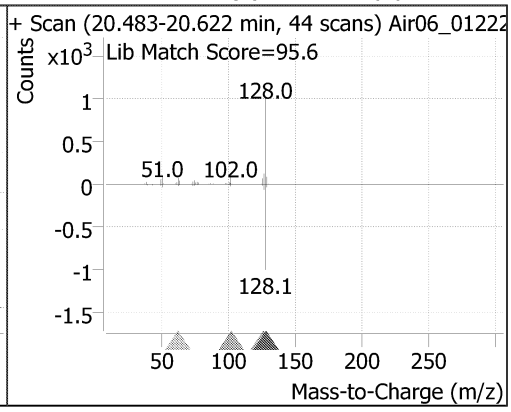



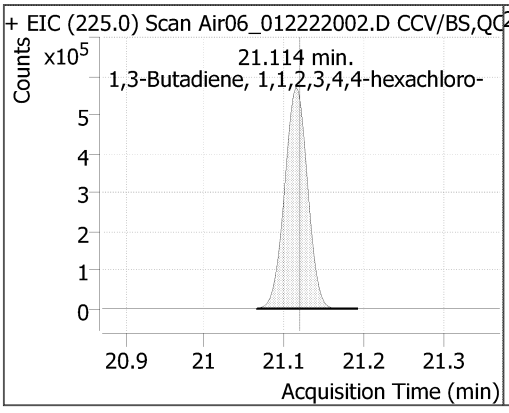

| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | 9.6302 | 20.53 | -0.01 | 2318678 | 127.0 | 13.4 | 10.7 | 16.1 |
| | | | | | 129.0 | 11.0 | 8.8 | 13.2 |
| | | | | | 102.0 | 9.6 | 7.6 | 11.5 |
| | | | | | 63.0 | 7.4 | 5.9 | 8.8 |

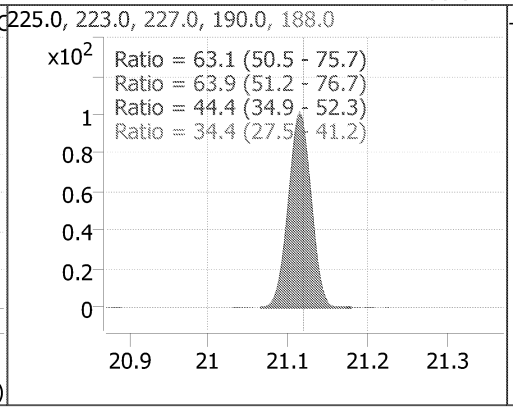


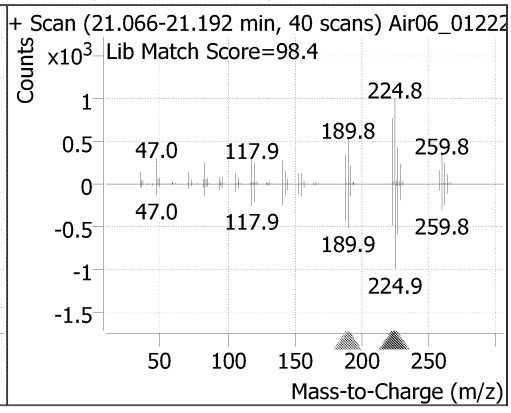




| Compound | Conc. | RT | Dev(Min) | Resp. | QIon | QRatio | Lower | Upper |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 9.1550 | 21.11 | -0.01 | 1144378 | 227.0 | 63.9 | 51.2 | 76.7 |
| | | | | | 223.0 | 63.1 | 50.5 | 75.7 |
| | | | | | 190.0 | 44.4 | 34.9 | 52.3 |
| | | | | | 188.0 | 34.4 | 27.5 | 41.2 |



Enthalpy Analytical
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Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 456991
Report Level: IV
Report Date: 02/22/2022

**Volatile Organics in Air GC**

**Analytical Report** *prepared for:*

Marvin Heskett
Element Environmental, LLC
98-030 Hekaha Street
Unit 9
Aiea, HI 96701

Project: 180025 - Red Hill Soil Vapor Monitoring

*Authorized for release by:*



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

# Sample Summary

Marvin Heskett
Element Environmental, LLC
98-030 Hekaha Street
Unit 9
Aiea, HI 96701

Lab Job #: 456991
Project No: 180025
Location: Red Hill Soil Vapor Monitoring
Date Received: 01/19/22

| Sample ID | Lab ID | Collected | Matrix |
|---|---|---|---|
| SVMP-15S | 456991-001 | 01/17/22 12:41 | Air |
| SVMP-15D | 456991-002 | 01/17/22 12:48 | Air |
| SVMP-17S | 456991-003 | 01/17/22 13:06 | Air |
| SVMP-17D | 456991-004 | 01/17/22 13:07 | Air |
| SVMP-18S | 456991-005 | 01/17/22 13:20 | Air |
| SVMP-18D | 456991-006 | 01/17/22 13:21 | Air |
| SVMP-20M | 456991-007 | 01/17/22 13:35 | Air |
| SVMP-20D | 456991-008 | 01/17/22 13:38 | Air |

ENTHALPY ANALYTICAL

# Case Narrative

## VOLATILE ORGANICS IN AIR GC (ASTM D1946)

| | |
|---|---|
| Element Environmental, LLC | Lab Job Number: 456991 |
| 98-030 Hekaha Street | Project No: 180025 |
| Unit 9 | Location: Red Hill Soil Vapor Monitoring |
| Aiea, HI 96701 | Date Received: 01/19/22 |
| Marvin Heskett | |

This data package contains sample and QC results for eight air samples, requested for the above referenced project on 01/19/22. See attached cooler receipt form for any sample receipt problems or discrepancies.

**Volatile Organics in Air GC (ASTM D1946):**
No analytical problems were encountered.

**Chain of Custody**

# ENTHALPY ANALYTICAL

## Air Chain of Custody Record

Lab No: 45 6991

Page: 1 of 1

**Turn Around Time (rush by advanced notice only)**

| Standard: | | 5 Day: | X | 3 Day: | |
|---|---|---|---|---|---|
| 2 Day: | | 1 Day: | | Custom TAT: | |


**Enthalpy Analytical - Orange**

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900


| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| Company: | Element Environmental LLC | Name: | Red Hill Soil Vapor Monitoring |
| Report To: | Marvin Heskett | Number: | 180025 |
| Email: | mheskett@e2hi.com | P.O. #: | |
| Address: | 98-030 Hekaha St., Unit 9, Aiea, Hawaii 96701 | Address: | |
| Phone: | 808-728-4617 | Global ID: | |
| Fax: | | Sampled By: | AL/LH |

Special Instructions:
1. LEVEL IV Data Reporting, with additional anaylsis and text files data per discussion 9/14/21
2. Shipment contains three unused canisters (ID: C10595, C10543, C10535) and three unused controllers (ID: A10264, A10199, A10241).

*Note:*

s

| | Sample ID | Type | Equipment Information | | | Sampling Information | | | | | | Analysis Requested | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (I) Indoor (A) Ambient (SV) Soil Vapor (S) Source | Canister ID | Size (1L, 3L, 6L, 15L) | Flow Controller ID | Sample Start Date | Sample Start Time | Vacuum Start ("Hg) | Sample End Date | Sample End Time | Vacuum End ("Hg) | VOCs & TICs (TO-15) *C5-C12 (T-03) | Fixed Gases (ASTM D-1946 | | | | | | | |
| 1 | SVMP-15S | SV | C10699 | 1.4L | A10304 | 1/17/2022 | 12:33 | 29 | 1/17/2022 | 12:41 | 4.5 | X | X | | | | | | | |
| 2 | SVMP-15D | SV | C10625 | 1.4L | A10195 | 1/17/2022 | 12:40 | 29.0 | 1/17/2022 | 12:48 | 4.5 | X | X | | | | | | | |
| 3 | SVMP-17S | SV | C10280 | 1.4L | A10269 | 1/17/2022 | 12:57 | 29 | 1/17/2022 | 13:06 | 4.5 | X | X | | | | | | | |
| 4 | SVMP-17D | SV | C10557 | 1.4L | A10245 | 1/17/2022 | 12:58 | 28.0 | 1/17/2022 | 13:07 | 4.5 | X | X | | | | | | | |
| 5 | SVMP-18S | SV | C10759 | 1.4L | A10235 | 1/17/2022 | 13:12 | 29 | 1/17/2022 | 13:20 | 4.5 | X | X | | | | | | | |
| 6 | SVMP-18D | SV | C10630 | 1.4L | A10220 | 1/17/2022 | 13:13 | 30 | 1/17/2022 | 13:21 | 4.5 | X | X | | | | | | | |
| 7 | SVMP-20M | SV | C10549 | 1.4L | A10282 | 1/17/2022 | 13:28 | 27 | 1/17/2022 | 13:35 | 4.5 | X | X | | | | | | | |
| 8 | SVMP-20D | SV | C10582 | 1.4L | A10307 | 1/17/2022 | 13:29 | 30 | 1/17/2022 | 13:38 | 4.5 | X | X | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |

| | Signature | Print Name | Company / Title | Date / Time |
|---|---|---|---|---|
| [1] Relinquished By: | | Maya Matsuoka | Element Environmental LLC | 1/18/2021 (12:00) |
| [1] Received By: | | NICK O | EA | 1/19/22 09:45 |
| [2] Relinquished By: | | | | |
| [2] Received By: | | | | |
| [3] Relinquished By: | | | | |
| [3] Received By: | | | | |

ENTHALPY ANALYTICAL

# SAMPLE ACCEPTANCE CHECKLIST

**Section 1**

Client: Element Environmental, LLC  Project: Red Hill Soil Vapor Monitoring

Date Received: 1/19/22  Sampler's Name Present: ☑ Yes ☐ No

**Section 2**

Sample(s) received in a cooler? ☐ Yes, How many? _____ ☑ No (skip section 2)  Sample Temp (°C) (No Cooler): AMB

Sample Temp (°C), One from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: _____

**Section 3**

Was the cooler packed with: ☐ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____

| **Section 4** | YES | NO | N/A |
|---|---|---|---|
| Was a COC received? | ✔ | | |
| Are sample IDs present? | ✔ | | |
| Are sampling dates & times present? | ✔ | | |
| Is a relinquished signature present? | ✔ | | |
| Are the tests required clearly indicated on the COC? | ✔ | | |
| Are custody seals present? | | ✔ | |
| If custody seals are present, were they intact? | | | ✔ |
| Are all samples sealed in plastic bags? (Recommended for Microbiology samples) | | | ✔ |
| Did all samples arrive intact? If no, indicate in Section 4 below. | ✔ | | |
| Did all bottle labels agree with COC? (ID, dates and times) | ✔ | | |
| Were the samples collected in the correct containers for the required tests? | ✔ | | |
| Are the containers labeled with the correct preservatives? | | | ✔ |
| Is there headspace in the VOA vials greater than 5-6 mm in diameter? | | | ✔ |
| Was a sufficient amount of sample submitted for the requested tests? | ✔ | | |

**Section 5** Explanations/Comments

**Section 6**

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: MVCB  Date: 1/19/22



ORIGIN ID:NAXA (808) 306-8615
JODIE TSUBONE
ELEMENT ENVIRONMENTAL LLC
98-030 HEKAHA ST.
SUITE 9
AIEA, HI 96701
UNITED STATES US

SHIP DATE: 18JAN22
ACTWGT: 26.45 LB
CAD: 0148956/CAFE3509
DIMS: 19x16x15 IN

BILL SENDER

TO SAMPLE RECEIVING
ENTHALPY ANALYTYICAL
931 W. BARKLEY AVE

ORANGE CA 92868
(714) 771-6900
REF: 180025
PO: 180025

570C4/

FedEx Express

J211020121101uv

WED - 19 JAN 4:30P
STANDARD OVERNIGHT

TRK# 0201 4707 1911 7698

WZ APVA

92868
CA-US SNA

**Results & QC Summary**

ENTHALPY ANALYTICAL

# Reformed Gases by GC

**Lab #:** 456991 **Project#:** 180025

**Client:** Element Environmental, LLC **Location:** Red Hill Soil Vapor Monitoring

**Field ID:** SVMP-15S **Diln Fac:** 2.000 **Analyzed:** 01/24/22
**Type:** SAMPLE **Batch#:** 282368 **Prep:** METHOD
**Lab ID:** 456991-001 **Sampled:** 01/17/22 **Analysis:** ASTM D1946
**Matrix:** Air **Received:** 01/19/22 **Analyst:** MPD

| Analyte | Result | RL | Units |
|---|---|---|---|
| Carbon Monoxide | ND | 0.20 | mol % |
| **Carbon Dioxide** | **0.57** | 0.20 | mol % |
| **Oxygen/Argon** | **20** | 0.20 | mol % |
| Methane | ND | 0.20 | mol % |
| **Nitrogen** | **79** | 0.20 | mol % |

**Field ID:** SVMP-15D **Diln Fac:** 2.000 **Analyzed:** 01/24/22
**Type:** SAMPLE **Batch#:** 282368 **Prep:** METHOD
**Lab ID:** 456991-002 **Sampled:** 01/17/22 **Analysis:** ASTM D1946
**Matrix:** Air **Received:** 01/19/22 **Analyst:** MPD

| Analyte | Result | RL | Units |
|---|---|---|---|
| Carbon Monoxide | ND | 0.20 | mol % |
| **Carbon Dioxide** | **0.78** | 0.20 | mol % |
| **Oxygen/Argon** | **23** | 0.20 | mol % |
| Methane | ND | 0.20 | mol % |
| **Nitrogen** | **76** | 0.20 | mol % |

**Field ID:** SVMP-17S **Diln Fac:** 3.000 **Analyzed:** 01/24/22
**Type:** SAMPLE **Batch#:** 282368 **Prep:** METHOD
**Lab ID:** 456991-003 **Sampled:** 01/17/22 **Analysis:** ASTM D1946
**Matrix:** Air **Received:** 01/19/22 **Analyst:** MPD

| Analyte | Result | RL | Units |
|---|---|---|---|
| Carbon Monoxide | ND | 0.30 | mol % |
| **Carbon Dioxide** | **0.69** | 0.30 | mol % |
| **Oxygen/Argon** | **21** | 0.30 | mol % |
| Methane | ND | 0.30 | mol % |
| **Nitrogen** | **78** | 0.30 | mol % |

**Field ID:** SVMP-17D **Diln Fac:** 3.000 **Analyzed:** 01/24/22
**Type:** SAMPLE **Batch#:** 282368 **Prep:** METHOD
**Lab ID:** 456991-004 **Sampled:** 01/17/22 **Analysis:** ASTM D1946
**Matrix:** Air **Received:** 01/19/22 **Analyst:** MPD

| Analyte | Result | RL | Units |
|---|---|---|---|
| Carbon Monoxide | ND | 0.30 | mol % |
| Carbon Dioxide | ND | 0.30 | mol % |
| **Oxygen/Argon** | **21** | 0.30 | mol % |
| Methane | ND | 0.30 | mol % |
| **Nitrogen** | **78** | 0.30 | mol % |

ENTHALPY ANALYTICAL

# Reformed Gases by GC

**Lab #:** 456991 **Project#:** 180025

**Client:** Element Environmental, LLC **Location:** Red Hill Soil Vapor Monitoring

**Field ID:** SVMP-18S **Diln Fac:** 3.000 **Analyzed:** 01/24/22
**Type:** SAMPLE **Batch#:** 282368 **Prep:** METHOD
**Lab ID:** 456991-005 **Sampled:** 01/17/22 **Analysis:** ASTM D1946
**Matrix:** Air **Received:** 01/19/22 **Analyst:** MPD

| Analyte | Result | RL | Units |
|---|---|---|---|
| Carbon Monoxide | ND | 0.30 | mol % |
| **Carbon Dioxide** | **0.34** | 0.30 | mol % |
| **Oxygen/Argon** | **21** | 0.30 | mol % |
| Methane | ND | 0.30 | mol % |
| **Nitrogen** | **78** | 0.30 | mol % |

**Field ID:** SVMP-18D **Diln Fac:** 2.000 **Analyzed:** 01/24/22
**Type:** SAMPLE **Batch#:** 282368 **Prep:** METHOD
**Lab ID:** 456991-006 **Sampled:** 01/17/22 **Analysis:** ASTM D1946
**Matrix:** Air **Received:** 01/19/22 **Analyst:** MPD

| Analyte | Result | RL | Units |
|---|---|---|---|
| Carbon Monoxide | ND | 0.20 | mol % |
| **Carbon Dioxide** | **0.30** | 0.20 | mol % |
| **Oxygen/Argon** | **24** | 0.20 | mol % |
| Methane | ND | 0.20 | mol % |
| **Nitrogen** | **76** | 0.20 | mol % |

**Field ID:** SVMP-20M **Diln Fac:** 3.000 **Analyzed:** 01/24/22
**Type:** SAMPLE **Batch#:** 282368 **Prep:** METHOD
**Lab ID:** 456991-007 **Sampled:** 01/17/22 **Analysis:** ASTM D1946
**Matrix:** Air **Received:** 01/19/22 **Analyst:** MPD

| Analyte | Result | RL | Units |
|---|---|---|---|
| Carbon Monoxide | ND | 0.30 | mol % |
| **Carbon Dioxide** | **0.31** | 0.30 | mol % |
| **Oxygen/Argon** | **21** | 0.30 | mol % |
| Methane | ND | 0.30 | mol % |
| **Nitrogen** | **78** | 0.30 | mol % |

**Field ID:** SVMP-20D **Diln Fac:** 5.000 **Analyzed:** 01/24/22
**Type:** SAMPLE **Batch#:** 282368 **Prep:** METHOD
**Lab ID:** 456991-008 **Sampled:** 01/17/22 **Analysis:** ASTM D1946
**Matrix:** Air **Received:** 01/19/22 **Analyst:** MPD

| Analyte | Result | RL | Units |
|---|---|---|---|
| Carbon Monoxide | ND | 0.50 | mol % |
| Carbon Dioxide | ND | 0.50 | mol % |
| **Oxygen/Argon** | **22** | 0.50 | mol % |
| Methane | ND | 0.50 | mol % |
| **Nitrogen** | **78** | 0.50 | mol % |

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# Reformed Gases by GC

**Lab #:** 456991 **Project#:** 180025

**Client:** Element Environmental, LLC **Location:** Red Hill Soil Vapor Monitoring

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | BLANK | **DilN Fac:** | 1.000 | **Prep:** | METHOD |
| **Lab ID:** | QC968078 | **Batch#:** | 282368 | **Analysis:** | ASTM D1946 |
| **Matrix:** | Air | **Analyzed:** | 01/24/22 | **Analyst:** | MPD |

| Analyte | Result | RL | Units |
|---|---|---|---|
| Carbon Monoxide | ND | 0.10 | mol % |
| Carbon Dioxide | ND | 0.10 | mol % |
| Oxygen/Argon | ND | 0.10 | mol % |
| Methane | ND | 0.10 | mol % |
| Nitrogen | ND | 0.10 | mol % |

Legend

**ND:** Not Detected

**RL:** Reporting Limit

ENTHALPY ANALYTICAL

# Reformed Gases by GC: Batch QC

**Lab #:** 456991 **Project#:** 180025

**Client:** Element Environmental, LLC **Location:** Red Hill Soil Vapor Monitoring

**Type:** BS **Dil'n Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC968076 **Batch#:** 282368 **Analysis:** ASTM D1946

**Matrix:** Air **Analyzed:** 01/24/22 **Analyst:** MPD

| Analyte | Spiked | Result | %REC | Limits | Units |
|---|---|---|---|---|---|
| Carbon Monoxide | 7.000 | 6.995 | 100 | 85-115 | mol % |
| Carbon Dioxide | 15.00 | 14.96 | 100 | 85-115 | mol % |
| Oxygen/Argon | 4.000 | 4.103 | 103 | 85-115 | mol % |
| Methane | 4.000 | 4.062 | 102 | 85-115 | mol % |

**Type:** BSD **Dil'n Fac:** 1.000 **Prep:** METHOD

**Lab ID:** QC968077 **Batch#:** 282368 **Analysis:** ASTM D1946

**Matrix:** Air **Analyzed:** 01/24/22 **Analyst:** MPD

| Analyte | Spiked | Result | %REC | Limits | Units | RPD | Lim |
|---|---|---|---|---|---|---|---|
| Carbon Monoxide | 7.000 | 6.996 | 100 | 85-115 | mol % | 0 | 10 |
| Carbon Dioxide | 15.00 | 14.92 | 99 | 85-115 | mol % | 0 | 10 |
| Oxygen/Argon | 4.000 | 4.098 | 102 | 85-115 | mol % | 0 | 10 |
| Methane | 4.000 | 4.069 | 102 | 85-115 | mol % | 0 | 10 |

Legend

**RPD:** Relative Percent Difference

ENTHALPY ANALYTICAL

# Reformed Gases by GC: Batch QC

**Lab #:** 456991 **Project#:** 180025

**Client:** Element Environmental, LLC **Location:** Red Hill Soil Vapor Monitoring

| | | | | | |
|---|---|---|---|---|---|
| **Field ID:** | SVMP-17S | **Dil'n Fac:** | 3.000 | **Prep:** | METHOD |
| **Type:** | SDUP | **Batch#:** | 282368 | **Analysis:** | ASTM D1946 |
| **MSS Lab ID:** | 456991-003 | **Sampled:** | 01/17/22 | **Analyst:** | MPD |
| **Lab ID:** | QC968079 | **Received:** | 01/19/22 | | |
| **Matrix:** | Air | **Analyzed:** | 01/24/22 | | |

| Analyte | MSS Result | Result | RL | Units | RPD | Lim |
|---|---|---|---|---|---|---|
| Carbon Monoxide | <0.3000 | <0.3000 | 0.3000 | mol % | NC | 20 |
| **Carbon Dioxide** | 0.6940 | **0.6950** | 0.3000 | mol % | 0 | 20 |
| **Oxygen/Argon** | 20.79 | **20.80** | 0.3000 | mol % | 0 | 20 |
| Methane | <0.3000 | <0.3000 | 0.3000 | mol % | NC | 20 |
| **Nitrogen** | 78.15 | **78.15** | 0.3000 | mol % | 0 | 20 |

Legend

**NC:** Not Calculated

**RL:** Reporting Limit

**RPD:** Relative Percent Difference

# LEVEL IV DATA

# PACKAGE 456991

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www.enthalpy.com/socal

# METHOD

# D1946 (FGs)

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www.enthalpy.com/socal

# INSTRUMENT RUN LOGS

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www.enthalpy.com/socal

Instr AIR-GC02
Date: 1/24/2022
Seq #: **012422_FG**

| # | Sample ID | Data File | Injection Time | Comments |
|---|---|---|---|---|
| 1 | N2 BLK | AIR02_220124012 | 1/24/2022 11:52 | |
| 2 | FG CCV/BS, QC968076,282368,S14249 | AIR02_220124013 | 1/24/2022 12:08 | |
| 3 | FG CCV/BSD, QC968076,282368,S14249 | AIR02_220124014 | 1/24/2022 12:24 | |
| 4 | Lab Air | AIR02_220124015 | 1/24/2022 12:40 | |
| 5 | Lab Air Dup | AIR02_220124016 | 1/24/2022 12:55 | |
| 6 | BLANK,QC968078,282368,1x | AIR02_220124017 | 1/24/2022 13:11 | |
| 7 | 456991-001,282368,2x | AIR02_220124018 | 1/24/2022 13:27 | |
| 8 | 456991-002,282368,2x | AIR02_220124019 | 1/24/2022 13:42 | |
| 9 | 456991-003,282368,3x | AIR02_220124020 | 1/24/2022 13:58 | |
| 10 | 456991-003D,QC968079,282368,3x | AIR02_220124021 | 1/24/2022 14:14 | |
| 11 | 456991-004,282368,3x | AIR02_220124022 | 1/24/2022 14:30 | |
| 12 | 456991-005,282368,3x | AIR02_220124023 | 1/24/2022 14:46 | |
| 13 | 456991-006,282368,2x | AIR02_220124024 | 1/24/2022 15:02 | |
| 14 | 456991-007,282368,3x | AIR02_220124025 | 1/24/2022 15:18 | |
| 15 | 456991-008,282368,5x | AIR02_220124026 | 1/24/2022 15:35 | |
| 16 | Closing BLK | AIR02_220124027 | 1/24/2022 15:50 | |
| 17 | Closing Lab Air | AIR02_220124028 | 1/24/2022 16:06 | |
| 18 | Closing FG CCV, S14249 | AIR02_220124029 | 1/24/2022 16:21 | |

Instr AIR-GC02
Date: 1/10/2022
Seq #: **011022_FG ICAL**

| # | Sample ID | Data File | Injection Time | Comments |
|---|---|---|---|---|
| 1 | N2 blank | AIR02_220110016 | 1/10/2022 12:43 | |
| 2 | FG IC1,S16371,0.1% | AIR02_220110017 | 1/10/2022 12:58 | |
| 3 | FG IC1,S16371,0.1% | AIR02_220110018 | 1/10/2022 13:14 | |
| 4 | FG IC2,S15019,1% | AIR02_220110019 | 1/10/2022 13:30 | |
| 5 | FG IC2,S15019,1% | AIR02_220110020 | 1/10/2022 13:46 | |
| 6 | FG IC3,S14249,4% | AIR02_220110021 | 1/10/2022 14:34 | |
| 7 | FG IC3,S14249,4% | AIR02_220110022 | 1/10/2022 14:50 | |
| 8 | FG IC4,S15506,5% | AIR02_220110023 | 1/10/2022 15:06 | |
| 9 | FG IC4,S15506,5% | AIR02_220110024 | 1/10/2022 15:22 | |
| 10 | FG IC5,S12402,20% | AIR02_220110025 | 1/10/2022 15:38 | |
| 11 | FG IC5,S12402,20% | AIR02_220110026 | 1/10/2022 15:54 | |
| 12 | FG IC6,S16386,25% O2 | AIR02_220110027 | 1/10/2022 16:10 | |
| 13 | FG IC6,S16386,25% O2 | AIR02_220110028 | 1/10/2022 16:26 | |
| 14 | FG IC7,S16392,50% CH4 | AIR02_220110029 | 1/10/2022 16:42 | |
| 15 | FG IC7,S16392,50% CH4 | AIR02_220110030 | 1/10/2022 16:58 | |
| 16 | N2 blank | AIR02_220110031 | 1/10/2022 17:13 | |
| 17 | FG ICV1,S14249,4% | AIR02_220110032 | 1/10/2022 17:29 | |
| 18 | FG ICV1,S14249,4% | AIR02_220110033 | 1/10/2022 17:45 | |
| 19 | FG ICV2,S14181,5% | AIR02_220110034 | 1/10/2022 18:01 | H2 only |
| 20 | FG ICV2,S14181,5% | AIR02_220110035 | 1/10/2022 18:17 | H2 only |

# INITIAL CALIBRATION SUMMARY

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
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www.enthalpy.com/socal

method: C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Modified on: 1/12/2022 at 4:25:20 PM

The Data Analysis Parameters of the used Method are :

==========

Calibration Table

==========

AIR-GC02 Fixed Gases and C1-C6+ Hydrocarbons

Calib. Data Modified : Wednesday, January 12, 2022 4:02:42 PM

Rel. Reference Window : 3.500 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 3.500 %
Abs. Non-ref. Window : 0.000 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Equal (some peaks differ, see below)

Recalibration Settings:
Average Response : No Update
Average Retention Time: No Update

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: FID1 A, Front Signal
Signal 2: TCD2 B, Back Signal
Signal 3: TCD3 C, Aux Signal

| RetTime [min] | Lvl Sig | Amount [%v/v] | Area | Amt/Area | Ref | Grp | Name |
|---|---|---|---|---|---|---|---|
| 2.005 | 3 15 | 1.00000e-1 | 10.48808 | 9.53464e-3 | | | Helium |
| | 16 | 1.00000e-1 | 10.52482 | 9.50135e-3 | | | |
| | 17 | 1.00000 | 100.82127 | 9.91854e-3 | | | |
| | 18 | 1.00000 | 100.66016 | 9.93442e-3 | | | |
| | 19 | 10.00000 | 1023.55658 | 9.76986e-3 | | | |
| | 20 | 10.00000 | 1024.10083 | 9.76466e-3 | | | |
| | 21 | 20.00000 | 2053.03491 | 9.74168e-3 | | | |
| | 22 | 20.00000 | 2053.96948 | 9.73724e-3 | | | |
| | 23 | 50.00000 | 5122.94824 | 9.76000e-3 | | | |
| | 24 | 50.00000 | 5117.44336 | 9.77050e-3 | | | |
| 2.062 | 3 1 | 1.00000e-1 | 16.46583 | 6.07318e-3 | | | Hydrogen |
| | 2 | 1.00000e-1 | 16.34443 | 6.11829e-3 | | | |
| | 3 | 1.00000 | 161.31715 | 6.19897e-3 | | | |
| | 4 | 1.00000 | 160.99727 | 6.21129e-3 | | | |
| | 7 | 5.00000 | 814.31354 | 6.14014e-3 | | | |
| | 8 | 5.00000 | 812.17047 | 6.15634e-3 | | | |
| | 9 | 20.00000 | 3198.10107 | 6.25371e-3 | | | |
| | 10 | 20.00000 | 3199.92114 | 6.25015e-3 | | | |
| 2.273 | 1 1 | 1.00000e-1 | 220.83020 | 4.52837e-4 | | | Methane |

method: C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Modified on: 1/12/2022 at 4:25:20 PM

| RetTime [min] | Sig | Lvl | Amount [%v/v] | Area | Amt/Area | Ref Grp | Name |
|---|---|---|---|---|---|---|---|
| | 2 | 1 | 1.00000e-1 | 220.39000 | 4.53741e-4 | | |
| | 3 | | 1.00000 | 2204.73389 | 4.53569e-4 | | |
| | 4 | | 1.00000 | 2208.29907 | 4.52837e-4 | | |
| | 5 | | 4.00000 | 9235.22266 | 4.33124e-4 | | |
| | 6 | | 4.00000 | 9224.57813 | 4.33624e-4 | | |
| | 7 | | 5.00000 | 1.06669e4 | 4.68741e-4 | | |
| | 8 | | 5.00000 | 1.06650e4 | 4.68822e-4 | | |
| | 9 | | 20.00000 | 4.53735e4 | 4.40786e-4 | | |
| | 10 | | 20.00000 | 4.55691e4 | 4.38894e-4 | | |
| | 13 | | 49.75000 | 1.11557e5 | 4.45959e-4 | | |
| | 14 | | 49.75000 | 1.11618e5 | 4.45717e-4 | | |
| 2.444 | 2 | 1 | 1.00000e-1 | 309.77383 | 3.22816e-4 | | Oxygen+Argon |
| | 2 | | 1.00000e-1 | 303.93713 | 3.29015e-4 | | |
| | 3 | | 1.00000 | 2319.07056 | 4.31207e-4 | | |
| | 4 | | 1.00000 | 2315.87012 | 4.31803e-4 | | |
| | 5 | | 4.00000 | 9271.69336 | 4.31421e-4 | | |
| | 6 | | 4.00000 | 9269.21191 | 4.31536e-4 | | |
| | 11 | | 24.95000 | 5.57782e4 | 4.47307e-4 | | |
| | 12 | | 24.95000 | 5.57535e4 | 4.47506e-4 | | |
| 2.721 | 2 | 1 | 1.00000e-1 | 262.45605 | 3.81016e-4 | | Carbon Dioxide |
| | 2 | | 1.00000e-1 | 261.76852 | 3.82017e-4 | | |
| | 3 | | 1.00000 | 2607.90625 | 3.83449e-4 | | |
| | 4 | | 1.00000 | 2609.07666 | 3.83277e-4 | | |
| | 7 | | 5.00000 | 1.27200e4 | 3.93080e-4 | | |
| | 8 | | 5.00000 | 1.27135e4 | 3.93283e-4 | | |
| | 5 | | 15.00000 | 3.73162e4 | 4.01970e-4 | | |
| | 6 | | 15.00000 | 3.73069e4 | 4.02071e-4 | | |
| | 9 | | 20.00000 | 4.91188e4 | 4.07176e-4 | | |
| | 10 | | 20.00000 | 4.90930e4 | 4.07390e-4 | | |
| 4.811 | 2 | 1 | 1.00000e-1 | 293.27203 | 3.40980e-4 | | Carbon Monoxide |
| | 2 | | 1.00000e-1 | 292.73505 | 3.41606e-4 | | |
| | 3 | | 1.00000 | 2961.73486 | 3.37640e-4 | | |
| | 4 | | 1.00000 | 2958.73730 | 3.37982e-4 | | |
| | 7 | | 5.00000 | 1.47650e4 | 3.38639e-4 | | |
| | 8 | | 5.00000 | 1.47838e4 | 3.38208e-4 | | |
| | 5 | | 7.00000 | 2.05017e4 | 3.41435e-4 | | |
| | 6 | | 7.00000 | 2.04962e4 | 3.41527e-4 | | |
| | 9 | | 20.00000 | 5.79945e4 | 3.44860e-4 | | |
| | 10 | | 20.00000 | 5.79121e4 | 3.45351e-4 | | |

More compound-specific settings:

Compound: Helium
- Amount Control Limits : Low 8.50000 High 11.50000
- Time Window : From 1.900 min To 2.080 min
- Curve Type : Linear
- Origin : Forced
- Calibration Level Weights:/
  - Level 15 : 1
  - Level 16 : 1
  - Level 17 : 1
  - Level 18 : 1
  - Level 19 : 1
  - Level 20 : 1
  - Level 21 : 1
  - Level 22 : 1
  - Level 23 : 1
  - Level 24 : 1

method: C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Modified on: 1/12/2022 at 4:25:20 PM

Compound: Hydrogen
- Amount Control Limits : Low 4.50000 High 5.50000
- Time Window : From 2.032 min To 2.112 min
- Curve Type : Linear
- Origin : Forced
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 1
  - Level 3 : 0.1
  - Level 4 : 0.1
  - Level 7 : 0.02
  - Level 8 : 0.02
  - Level 9 : 0.005
  - Level 10 : 0.005

Compound: Oxygen+Argon
- Amount Control Limits : Low 3.60000 High 4.40000
- Time Window : From 2.315 min To 2.694 min
- Curve Type : Linear
- Origin : Forced
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 1
  - Level 3 : 0.1
  - Level 4 : 0.1
  - Level 5 : 0.025
  - Level 6 : 0.025
  - Level 11 : 0.004008
  - Level 12 : 0.004008

Compound: Carbon Dioxide
- Amount Control Limits : Low 13.50000 High 16.50000
- Time Window : From 2.571 min To 3.021 min
- Curve Type : Linear
- Origin : Forced
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 1
  - Level 3 : 0.1
  - Level 4 : 0.1
  - Level 7 : 0.02
  - Level 8 : 0.02
  - Level 5 : 0.006667
  - Level 6 : 0.006667
  - Level 9 : 0.005
  - Level 10 : 0.005

Compound: Carbon Monoxide
- Amount Control Limits : Low 6.30000 High 7.70000
- Time Window : From 4.711 min To 5.011 min
- Curve Type : Linear
- Origin : Forced
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 1
  - Level 3 : 0.1
  - Level 4 : 0.1
  - Level 7 : 0.02
  - Level 8 : 0.02
  - Level 5 : 0.014286
  - Level 6 : 0.014286
  - Level 9 : 0.005

method: C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Modified on: 1/12/2022 at 4:25:20 PM
Level 10 : 0.005

2 Warnings or Errors :

Warning : Overlapping peak time windows at 2.444 min, signal 2
Warning : Overlapping peak time windows at 2.005 min, signal 3

==========

Peak Sum Table

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***No Entries in table***

==========

Data File C:\CHEM32\1\DATA\2022\011022_FG ICAL\AIR02_220110032.D
Sample Name: FG ICV1,S14249,4%

Signal 1: FID1 A, Front Signal

| RetTime [min] | Type | Area [pA*s] | Amt/Area | Amount [%v/v] | Grp | Name |
|---|---|---|---|---|---|---|
| 2.288 | BB S | 9258.87793 | 4.45194e-4 | 4.12199 | | Methane |
| Totals : | | | | 4.12199 | | |

Signal 2: TCD2 B, Back Signal

| RetTime [min] | Type | Area [25 µV*s] | Amt/Area | Amount [%v/v] | Grp | Name |
|---|---|---|---|---|---|---|
| 2.400 | BB | 9276.85547 | 4.44128e-4 | 4.12011 | | Oxygen+Argon |
| 2.750 | BB S | 3.73209e4 | 4.02922e-4 | 15.03743 | | Carbon Dioxide |
| 4.901 | VB | 2.05188e4 | 3.43077e-4 | 7.03954 | | Carbon Monoxide |
| Totals : | | | | 26.19708 | | |

Signal 3: TCD3 C, Aux Signal

| RetTime [min] | Type | Area [25 µV*s] | Amt/Area | Amount [%v/v] | Grp | Name |
|---|---|---|---|---|---|---|
| 2.005 | | - | - | - | | Helium |
| 2.062 | | - | - | - | | Hydrogen |
| Totals : | | | | 0.00000 | | |

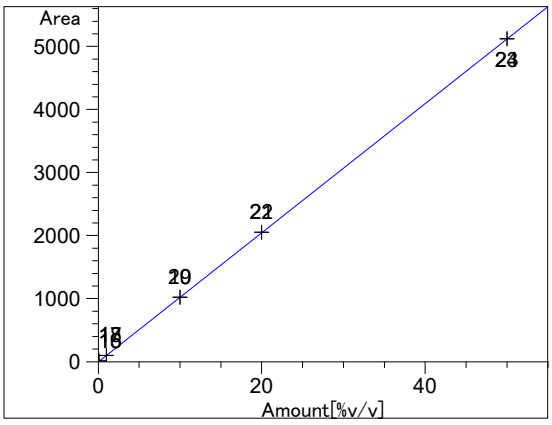
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
==========

Calibration Curves

==========

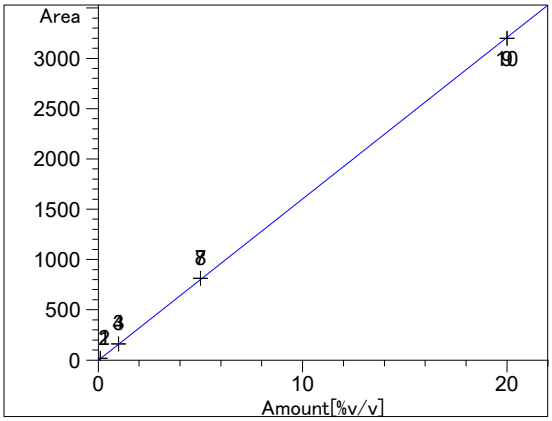



Helium at exp. RT: 2.005
TCD3 C, Aux Signal
Correlation: 1.00000
Residual Std. Dev.: 2.84877
Formula: y = mx
m: 102.43882
x: Amount
y: Area
Calibration Level Weights:
Level 15 : 1
Level 16 : 1
Level 17 : 1
Level 18 : 1
Level 19 : 1
Level 20 : 1
Level 21 : 1

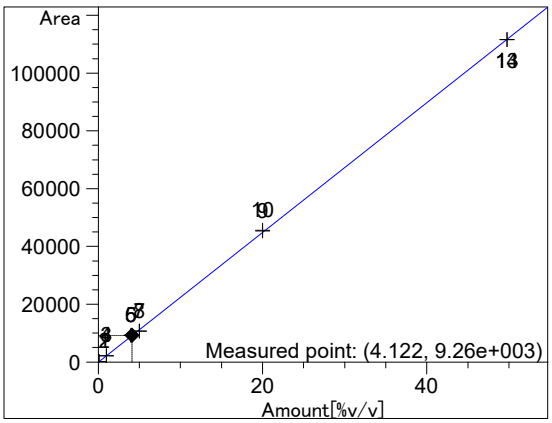
Data File C:\CHEM32\1\DATA\2022\011022_FG ICAL\AIR02_220110032.D
Sample Name: FG ICV1,S14249,4%

Level 22 : 1
Level 23 : 1
Level 24 : 1

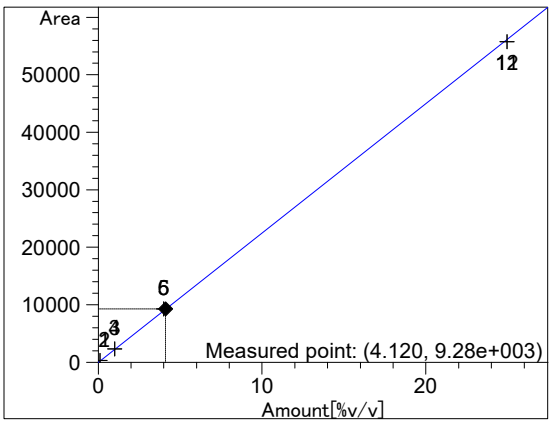
Data File C:\CHEM32\1\DATA\2022\011022_FG ICAL\AIR02_220110032.D
Sample Name: FG ICV1,S14249,4%




Hydrogen at exp. RT: 2.062
TCD3 C, Aux Signal
Correlation: 0.99998
Residual Std. Dev.: 8.43084
Formula: y = mx
m: 160.52933
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 0.1
Level 4 : 0.1
Level 7 : 0.02
Level 8 : 0.02
Level 9 : 0.005
Level 10 : 0.005

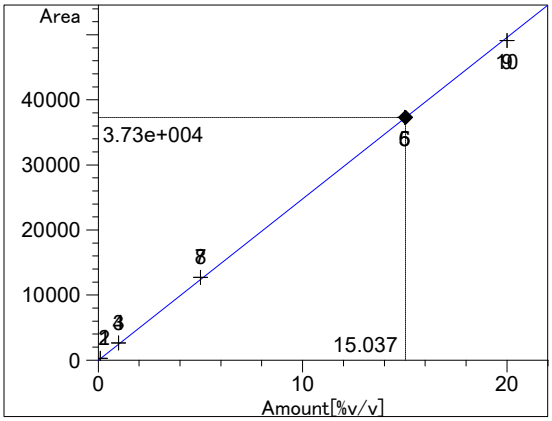



Methane at exp. RT: 2.273
FID1 A, Front Signal
Correlation: 0.99996
Residual Std. Dev.: 378.52967
Formula: y = mx + b
m: 2246.60819
b: -1.62667
x: Amount
y: Area

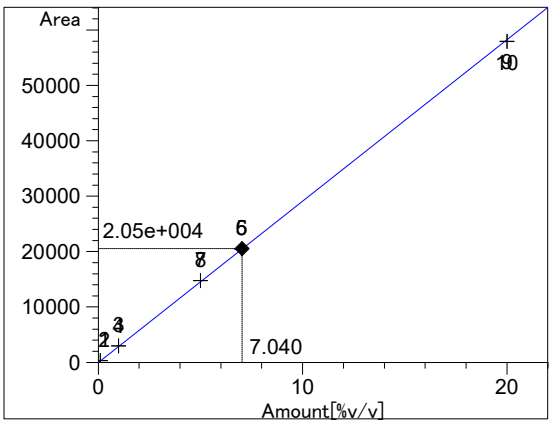



Oxygen+Argon at exp. RT: 2.444
TCD2 B, Back Signal
Correlation: 0.99969
Residual Std. Dev.: 267.43309
Formula: y = mx
m: 2251.60160
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 0.1
Level 4 : 0.1
Level 5 : 0.025
Level 6 : 0.025
Level 11 : 0.004008
Level 12 : 0.004008

Data File C:\CHEM32\1\DATA\2022\011022_FG ICAL\AIR02_220110032.D
Sample Name: FG ICV1,S14249,4%




Carbon Dioxide at exp. RT: 2.721
TCD2 B, Back Signal
Correlation: 0.99990
Residual Std. Dev.: 298.29324
Formula: y = mx
m: 2481.86768
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 0.1
Level 4 : 0.1
Level 7 : 0.02
Level 8 : 0.02
Level 5 : 0.006667
Level 6 : 0.006667
Level 9 : 0.005
Level 10 : 0.005




Carbon Monoxide at exp. RT: 4.811
TCD2 B, Back Signal
Correlation: 0.99997
Residual Std. Dev.: 194.68191
Formula: y = mx
m: 2914.80018
x: Amount
y: Area
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 0.1
Level 4 : 0.1
Level 7 : 0.02
Level 8 : 0.02
Level 5 : 0.014286
Level 6 : 0.014286
Level 9 : 0.005
Level 10 : 0.005

==========

*** End of Report ***

# INITIAL AND CONTINUING CALIBRATION VERIFICATION SUMMARY

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
931 W. Barkley Ave., Orange, CA 92868 • T: (714) 771-6900 • F: (714) 531-1209
www.enthalpy.com/socal

# INITIAL AND CONTINUING CALIBRATION VERIFICATION SUMMARY

**Method:** D1946
**Instrument ID:** AIR-GC02
**Analyst:** MPD
**ICAL Run File:** 1/10/2022
**Sample Run File:** 1/24/2022
**Units:** mol %

**Parameter: 011022_FG ICAL**

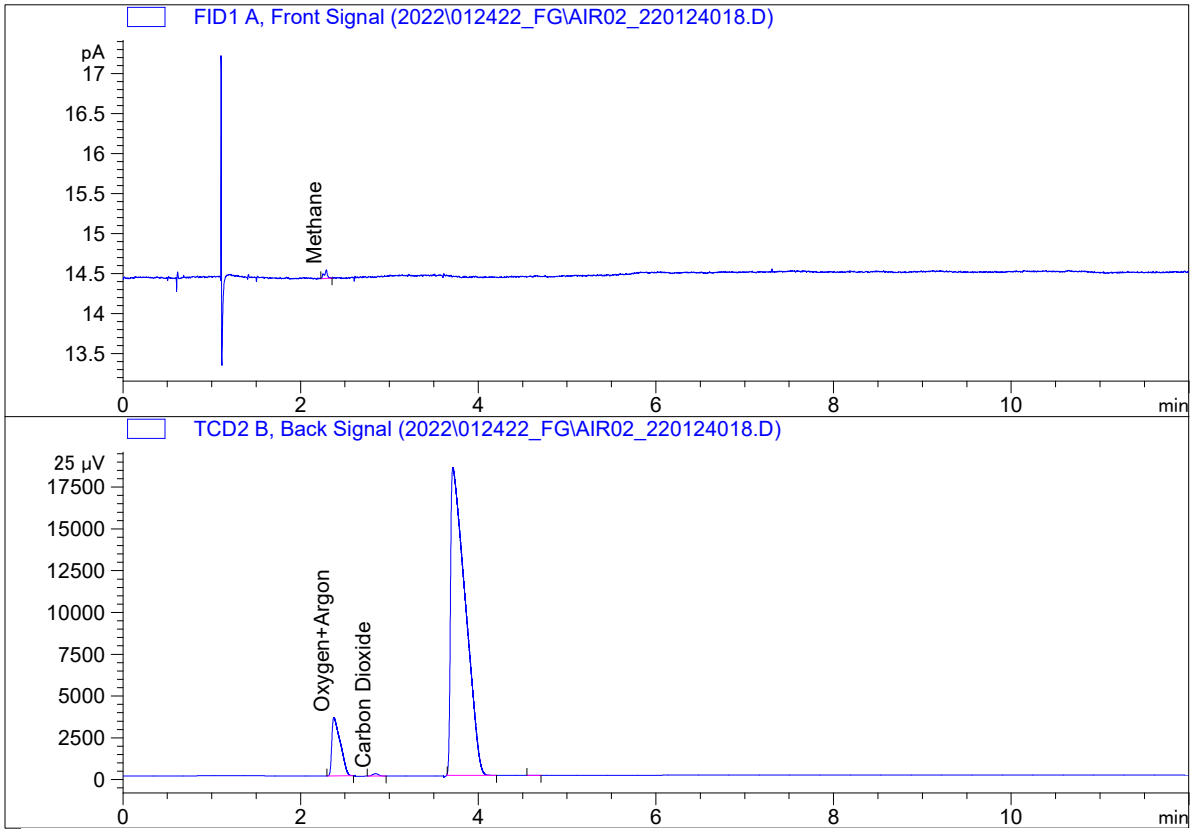
| Sample ID | Analysis Date | Compound Name | Area | Concentration | Recovered | %Recovery Limit 85-115% |
|---|---|---|---|---|---|---|
| ICV (S14249) | 1/10/2022 17:29 | Oxygen+Argon | 9277 | 4 | 4.120 | 103 |
| | | Carbon Dioxide | 37321 | 15 | 15.037 | 100 |
| | | Methane | 9259 | 4 | 4.122 | 103 |
| | | Carbon Monoxide | 20519 | 7 | 7.040 | 101 |
| ICV DUP (S14249) | 1/10/2022 17:45 | Oxygen+Argon | 9280 | 4 | 4.122 | 103 |
| | | Carbon Dioxide | 37319 | 15 | 15.037 | 100 |
| | | Methane | 9267 | 4 | 4.126 | 103 |
| | | Carbon Monoxide | 20520 | 7 | 7.040 | 101 |
| FG CCV/BS (S14249) | 1/24/2022 12:08 | Oxygen+Argon | 9238 | 4 | 4.103 | 103 |
| | | Carbon Dioxide | 37120 | 15 | 14.957 | 100 |
| | | Methane | 9124 | 4 | 4.062 | 102 |
| | | Carbon Monoxide | 20389 | 7 | 6.995 | 100 |
| FG CCV/BSD (S14249) | 1/24/2022 12:24 | Oxygen+Argon | 9227 | 4 | 4.098 | 102 |
| | | Carbon Dioxide | 37031 | 15 | 14.921 | 99 |

# RAW DATA SAMPLES

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
931 W. Barkley Ave., Orange, CA 92868 • T: (714) 771-6900 • F: (714) 531-1209
www.enthalpy.com/socal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124018.D
Sample Name: 456991-001,282368,2x,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 7
Acq Operator : GSG Location : Vial 5
Injection Date : 1/24/2022 1:27:01 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/24/2022 1:58:13 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 2.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.290 | BB | 0.251 | 3.325e-3 | 0.002 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.376 | BB | 22916.990 | 4.441e-4 | 20.356 | Oxygen+Argon |
| 2.840 | BB | 705.077 | 4.029e-4 | 0.568 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124018.D
Sample Name: 456991-001,282368,2x,PDF:1 2

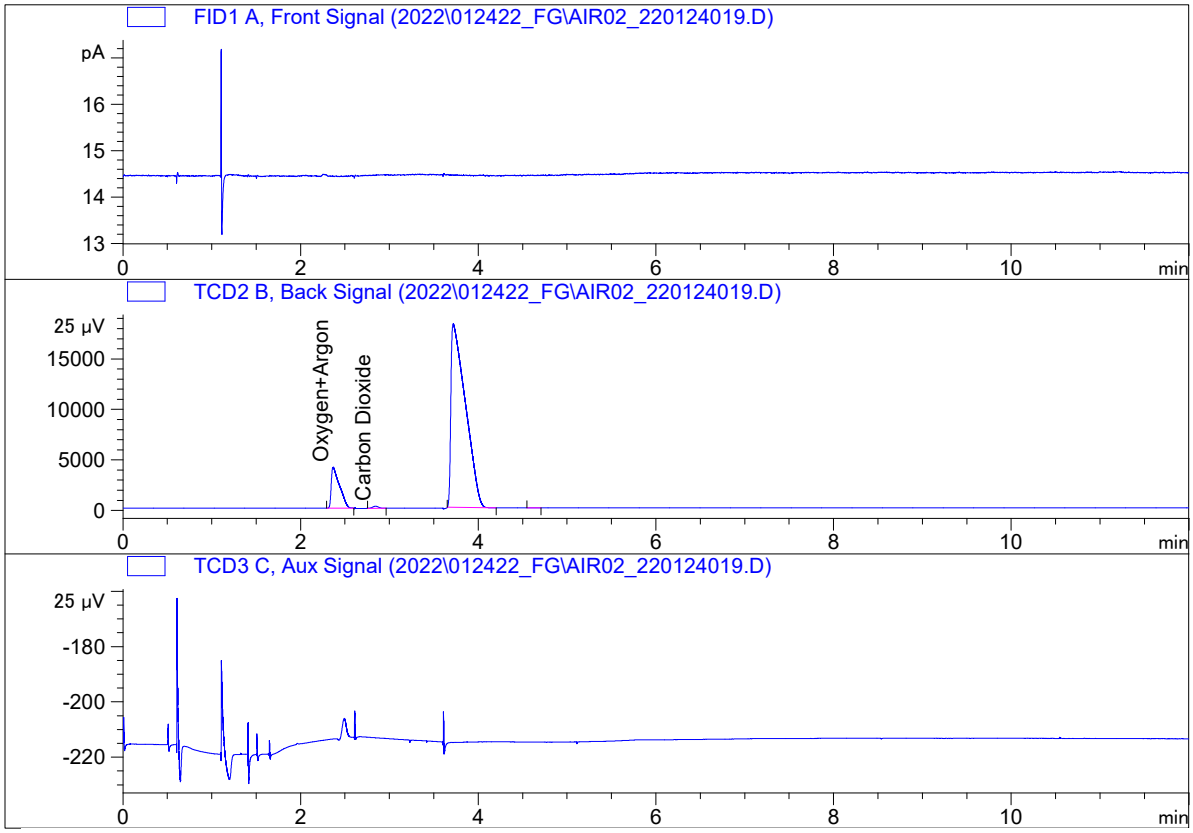
| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124019.D
Sample Name: 456991-002,282368,2x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 8 |
| Acq Operator | : GSG | Location | : Vial 6 |
| Injection Date | : 1/24/2022 1:42:55 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |

Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 2.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.364 | BB S | 26073.588 | 4.441e-4 | 23.160 | Oxygen+Argon |
| 2.841 | BB | 961.399 | 4.029e-4 | 0.775 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124019.D
Sample Name: 456991-002,282368,2x,PDF:1 2

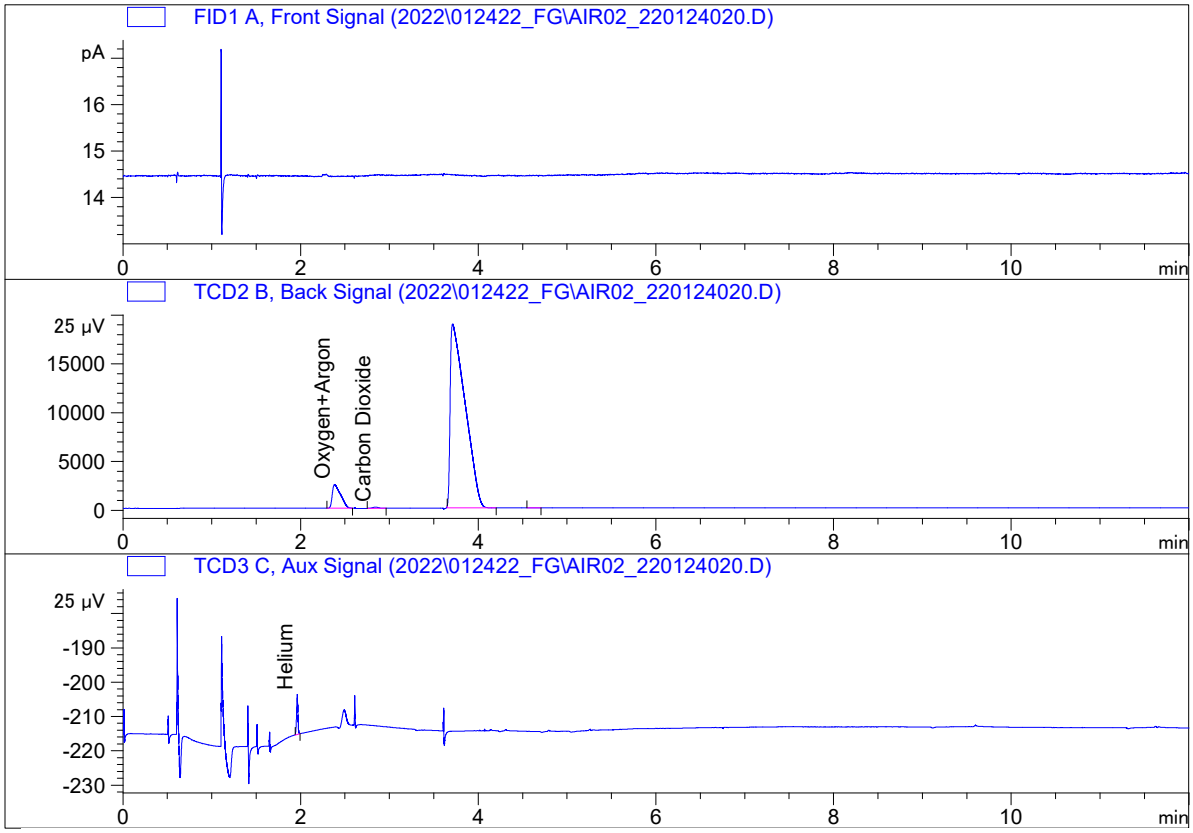
| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124020.D
Sample Name: 456991-003,282368,3x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 9 |
| Acq Operator | : GSG | Location | : Vial 7 |
| Injection Date | : 1/24/2022 1:58:53 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |

Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 3.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.382 | BB | 15600.712 | 4.441e-4 | 20.786 | Oxygen+Argon |
| 2.841 | BB | 574.168 | 4.029e-4 | 0.694 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

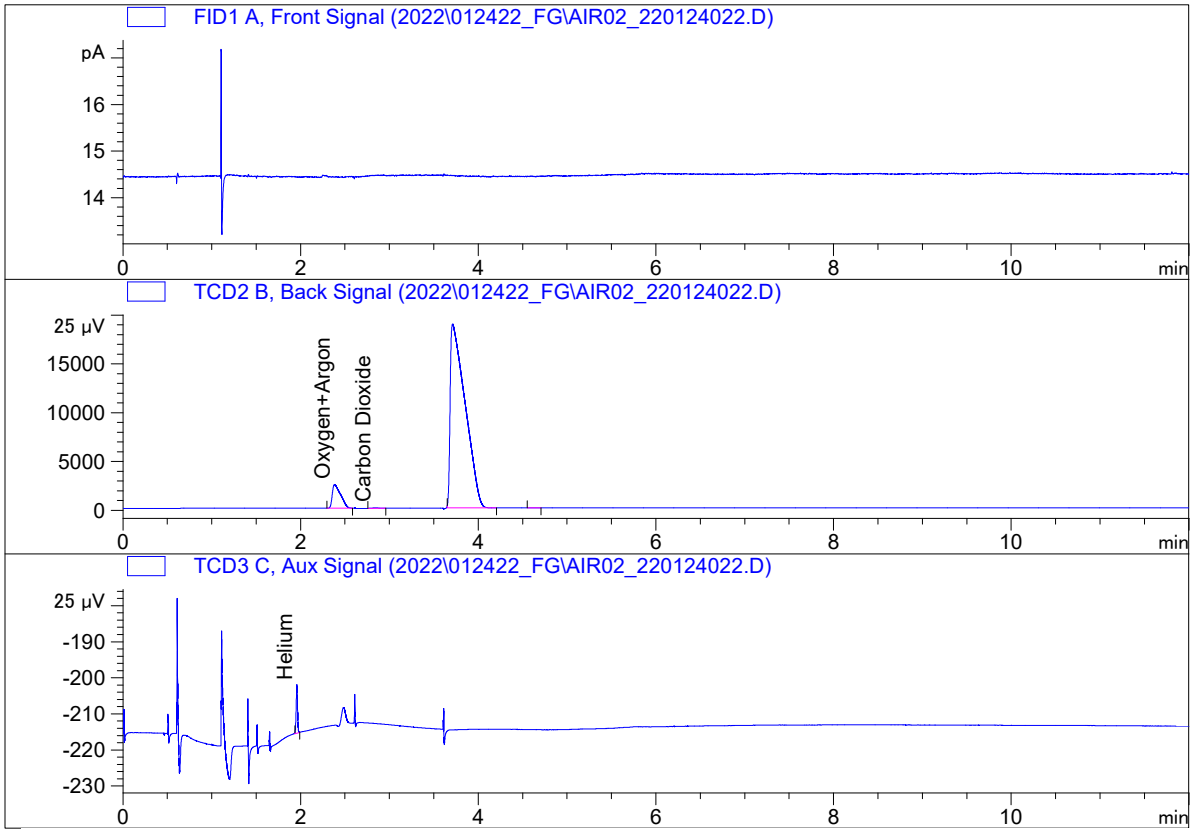
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124020.D
Sample Name: 456991-003,282368,3x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.961 | BB | 12.773 | 9.762e-3 | 0.374 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124022.D
Sample Name: 456991-004,282368,3x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 11 |
| Acq Operator | : GSG | Location | : Vial 8 |
| Injection Date | : 1/24/2022 2:30:47 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |
| Acq. Method | : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M | | |
| Analysis Method | : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M | | |
| Last Changed | : 1/12/2022 4:06:02 PM | | |




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 3.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.382 | BB | 15651.677 | 4.441e-4 | 20.854 | Oxygen+Argon |
| 2.842 | BB | 247.358 | 4.029e-4 | 0.299 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

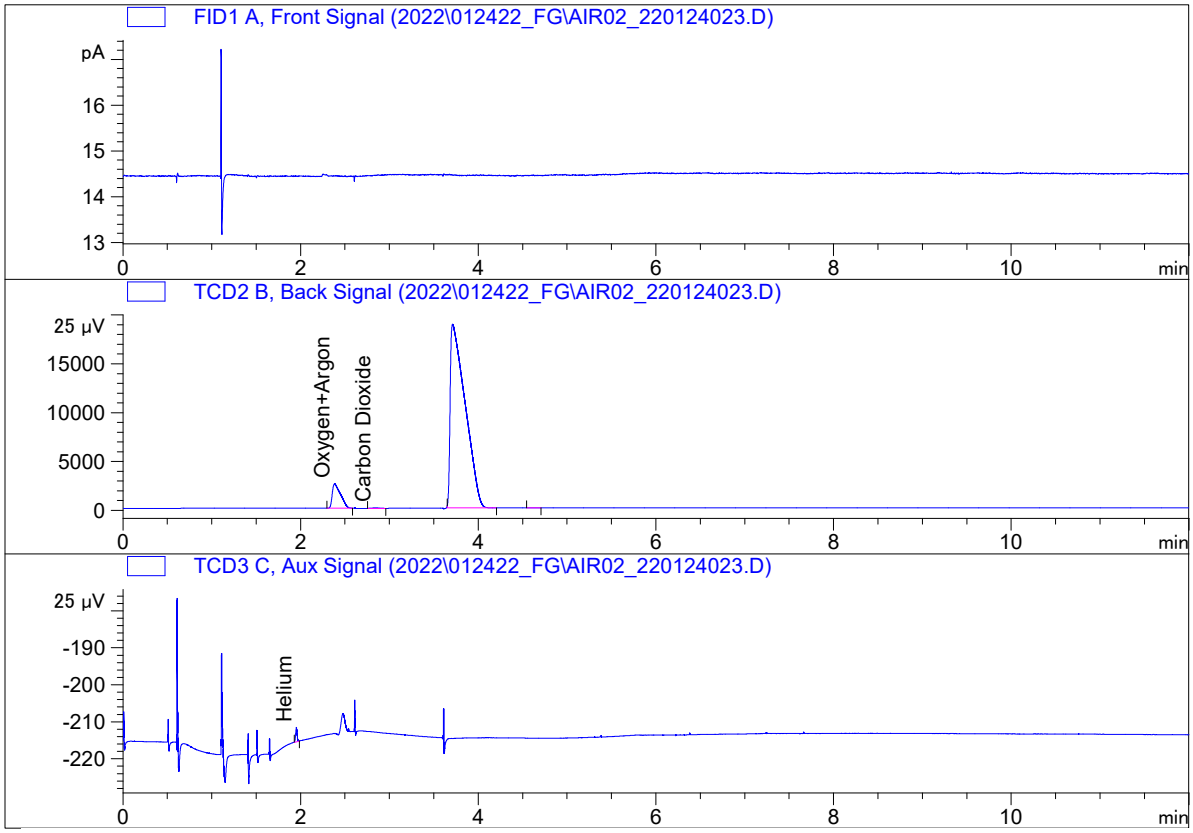
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124022.D
Sample Name: 456991-004,282368,3x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.957 | BB | 14.802 | 9.762e-3 | 0.433 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124023.D
Sample Name: 456991-005,282368,3x,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 12
Acq Operator : GSG Location : Vial 9
Injection Date : 1/24/2022 2:46:49 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 3.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.381 | BB | 15986.609 | 4.441e-4 | 21.300 | Oxygen+Argon |
| 2.841 | BB | 277.375 | 4.029e-4 | 0.335 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

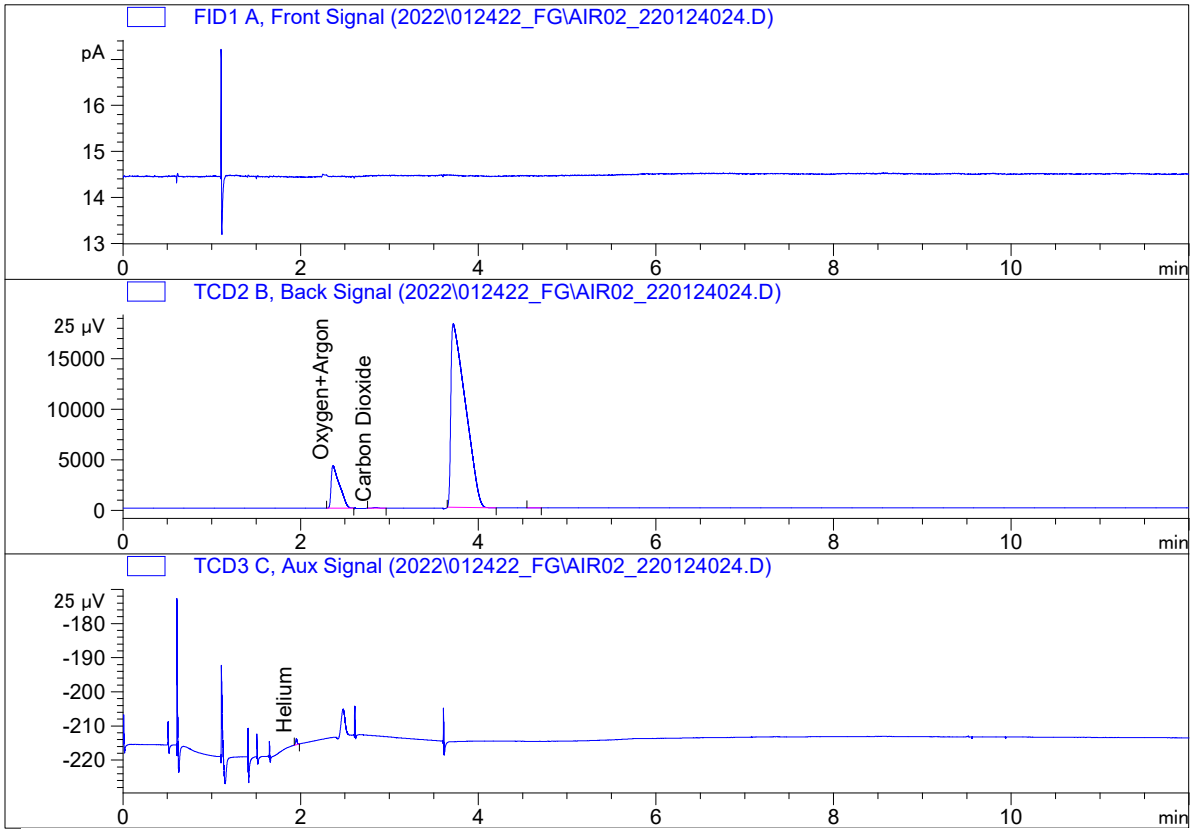
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124023.D
Sample Name: 456991-005,282368,3x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.952 | BB | 4.543 | 9.762e-3 | 0.133 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124024.D
Sample Name: 456991-006,282368,2x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 13 |
| Acq Operator | : GSG | Location | : Vial 10 |
| Injection Date | : 1/24/2022 3:02:51 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |
| Acq. Method | : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M | | |
| Analysis Method | : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M | | |
| Last Changed | : 1/12/2022 4:06:02 PM | | |




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 2.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.364 | BB S | 27139.689 | 4.441e-4 | 24.107 | Oxygen+Argon |
| 2.843 | BB | 366.053 | 4.029e-4 | 0.295 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

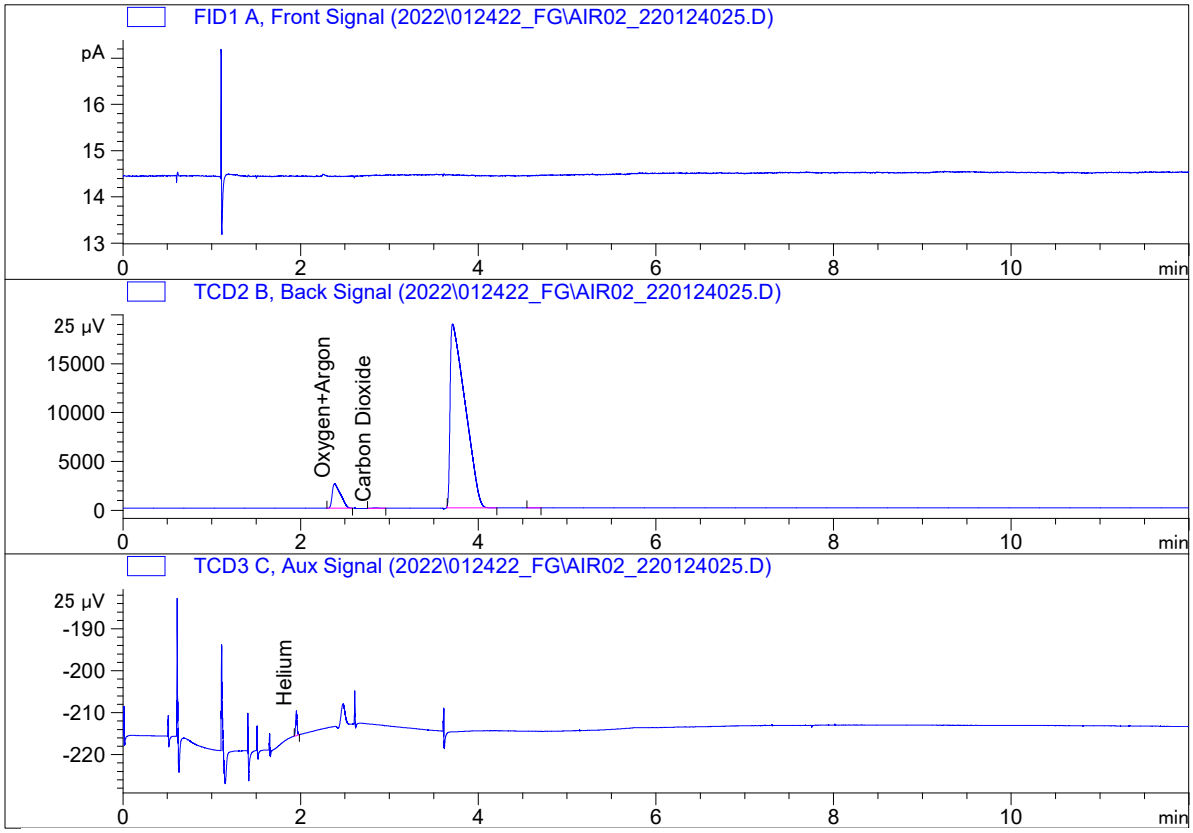
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124024.D
Sample Name: 456991-006,282368,2x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.952 | BB | 2.281 | 9.762e-3 | 0.045 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124025.D
Sample Name: 456991-007,282368,3x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 14 |
| Acq Operator | : GSG | Location | : Vial 11 |
| Injection Date | : 1/24/2022 3:18:55 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |
| Acq. Method | : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M | | |
| Analysis Method | : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M | | |
| Last Changed | : 1/12/2022 4:06:02 PM | | |




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 3.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.381 | BB | 16065.944 | 4.441e-4 | 21.406 | Oxygen+Argon |
| 2.841 | BB | 252.197 | 4.029e-4 | 0.305 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

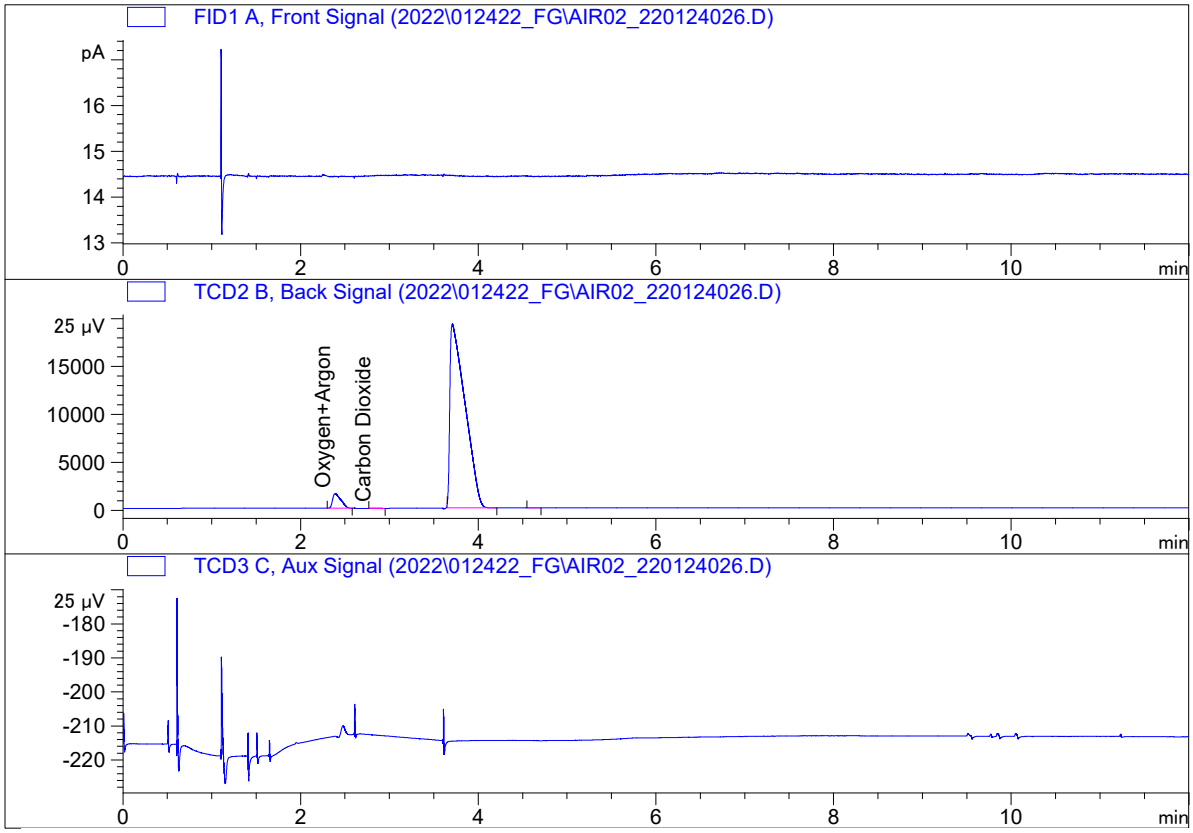
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124025.D
Sample Name: 456991-007,282368,3x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.952 | BB | 6.800 | 9.762e-3 | 0.199 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124026.D
Sample Name: 456991-008,282368,5x,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 15
Acq Operator : GSG Location : Vial 12
Injection Date : 1/24/2022 3:35:01 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 5.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.388 | BB | 9742.333 | 4.441e-4 | 21.634 | Oxygen+Argon |
| 2.841 | BB | 130.710 | 4.029e-4 | 0.263 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124026.D
Sample Name: 456991-008,282368,5x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

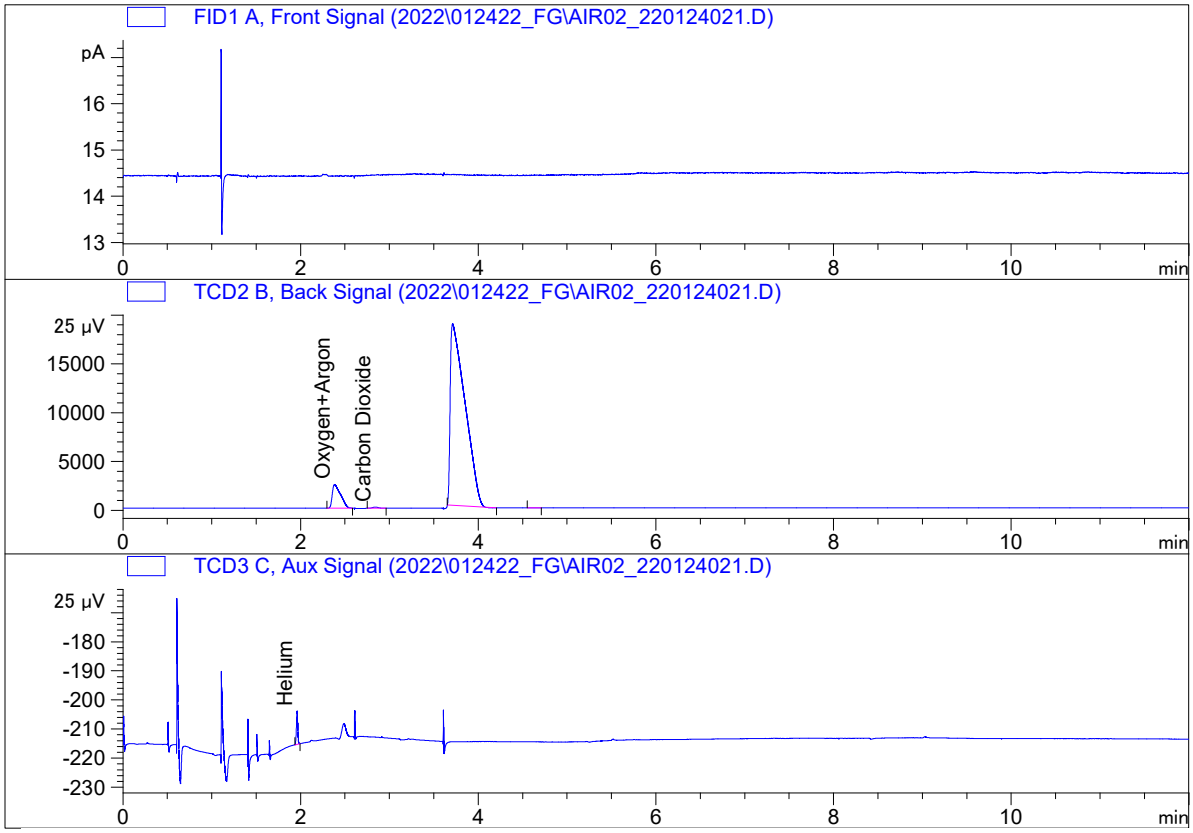
# RAW DATA

# BATCH QUALITY CONTROL

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
931 W. Barkley Ave., Orange, CA 92868 • T: (714) 771-6900 • F: (714) 531-1209
www.enthalpy.com/socal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124021.D
Sample Name: 456991-003D,QC968079,282368,3x,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 10
Acq Operator : GSG Location : Vial 7
Injection Date : 1/24/2022 2:14:49 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 3.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.383 | BB | 15608.743 | 4.441e-4 | 20.797 | Oxygen+Argon |
| 2.840 | BB | 575.204 | 4.029e-4 | 0.695 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

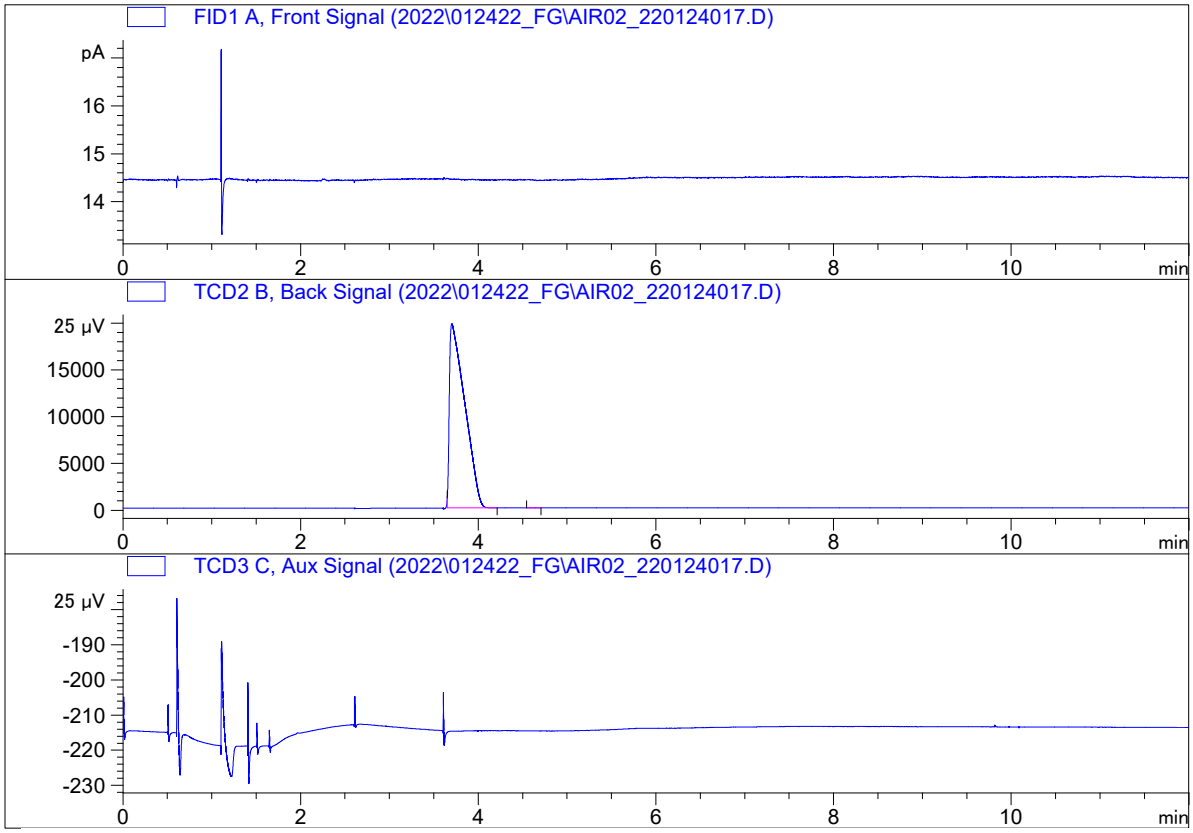
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124021.D
Sample Name: 456991-003D,QC968079,282368,3x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.960 | BB | 12.355 | 9.762e-3 | 0.362 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124017.D
Sample Name: BLANK,QC968078,282368,1x,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 6
Acq Operator : GSG Location : Vial 1
Injection Date : 1/24/2022 1:11:08 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Oxygen+Argon |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124017.D
Sample Name: BLANK,QC968078,282368,1x,PDF:1 2

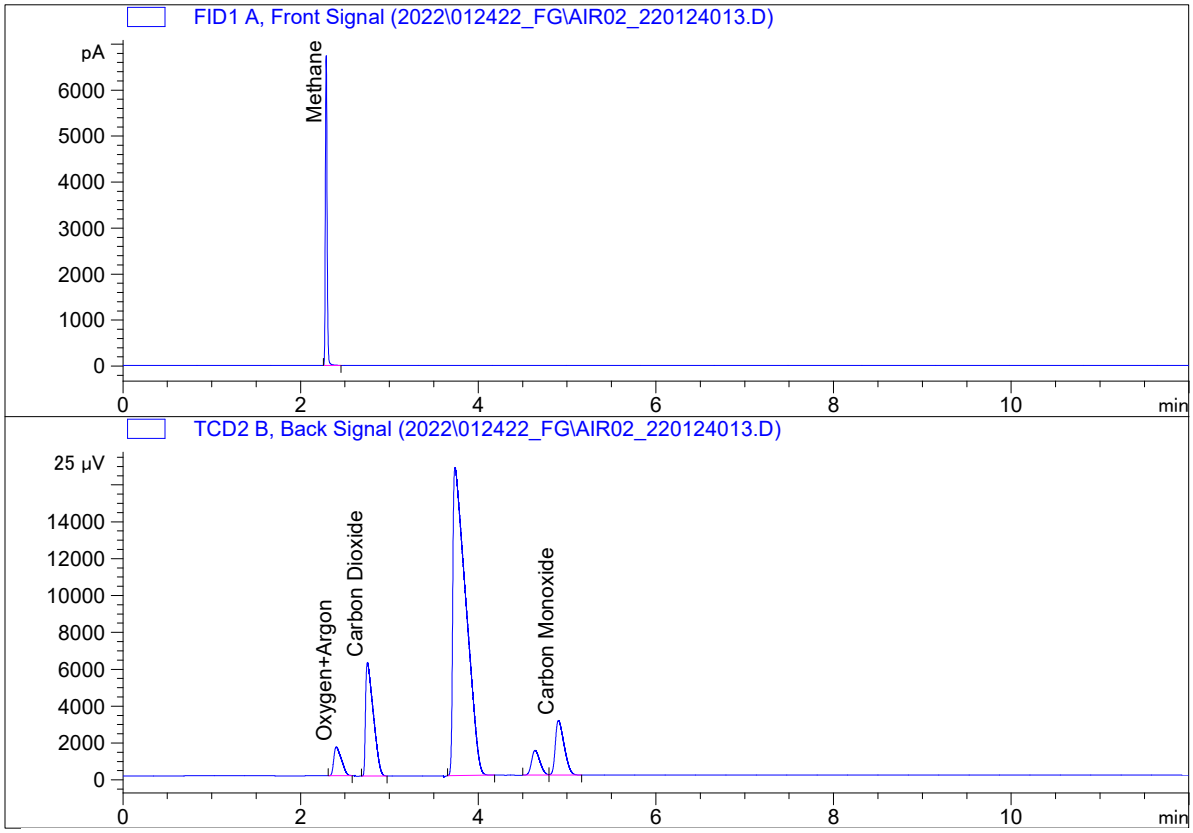
| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124013.D
Sample Name: FG CCV/BS,QC968076,282368,S14249,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 2 |
| Acq Operator | : GSG | Location | : Vial 3 |
| Injection Date | : 1/24/2022 12:08:27 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |

Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.289 | BB S | 9123.771 | 4.452e-4 | 4.062 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.402 | BB | 9238.147 | 4.441e-4 | 4.103 | Oxygen+Argon |
| 2.752 | BB S | 37120.176 | 4.029e-4 | 14.957 | Carbon Dioxide |
| 4.902 | VB | 20389.414 | 3.431e-4 | 6.995 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

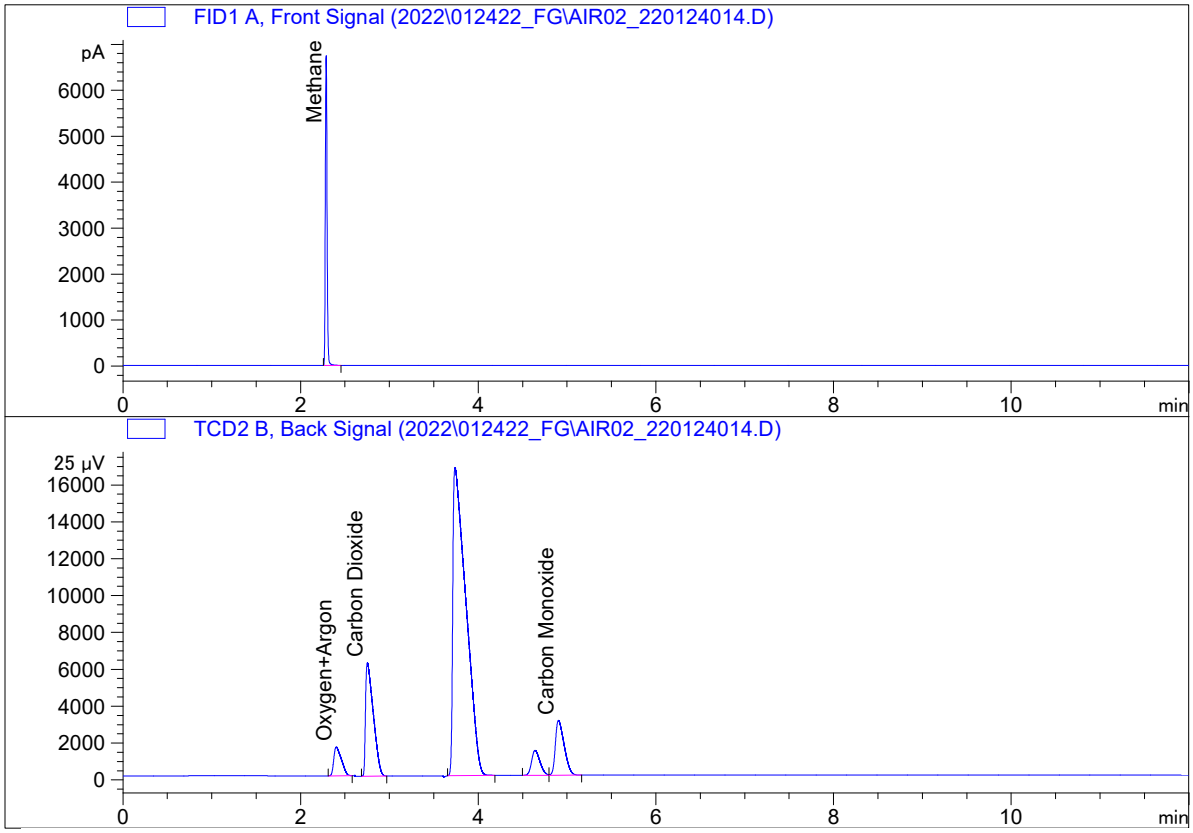
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124013.D
Sample Name: FG CCV/BS,QC968076,282368,S14249,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124014.D
Sample Name: FG CCV/BSD,QC968077,28236814249,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 3
Acq Operator : GSG Location : Vial 3
Injection Date : 1/24/2022 12:24:16 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.288 | BB S | 9140.774 | 4.452e-4 | 4.069 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.401 | BB | 9226.746 | 4.441e-4 | 4.098 | Oxygen+Argon |
| 2.752 | BB S | 37030.727 | 4.029e-4 | 14.921 | Carbon Dioxide |
| 4.902 | VB | 20391.520 | 3.431e-4 | 6.996 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124014.D
Sample Name: FG CCV/BSD,QC968077,28236814249,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

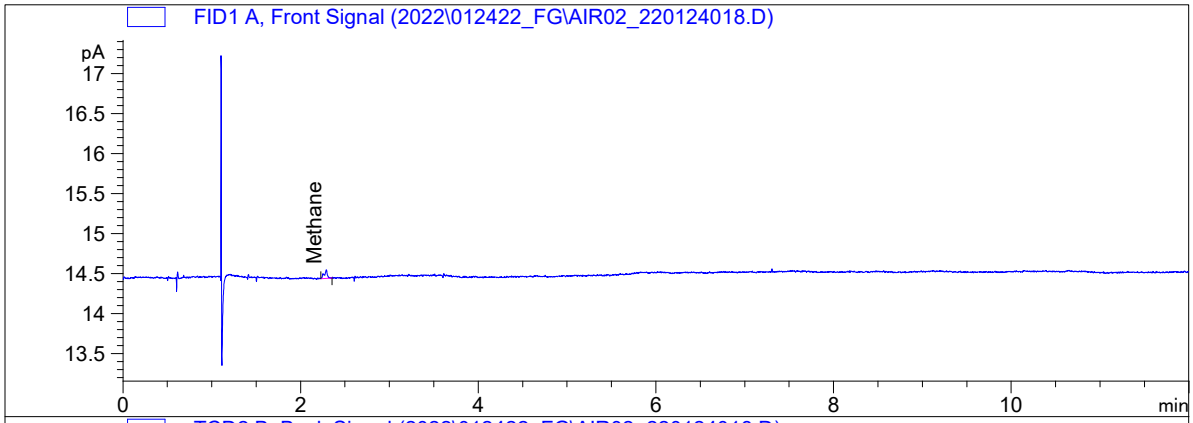
*** End of Report ***

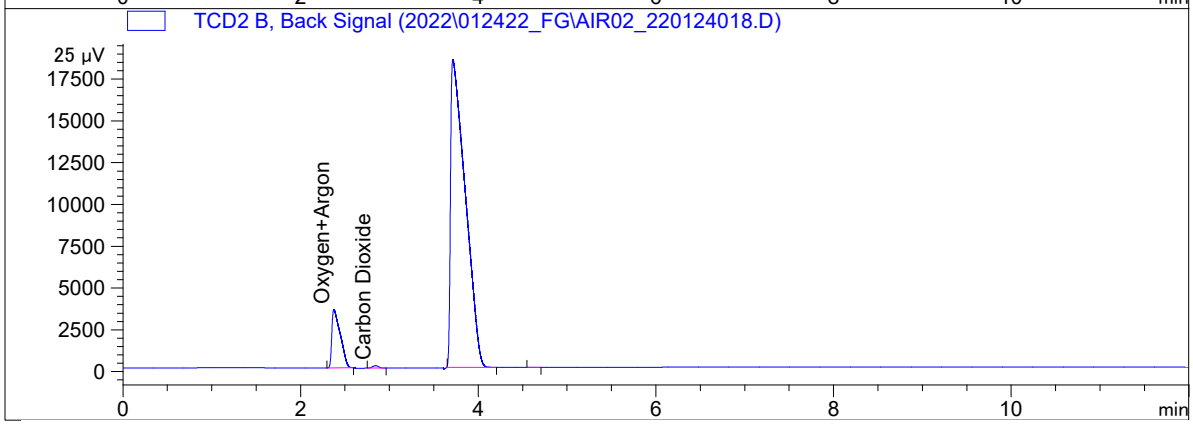
# RAW DATA

# INTIAL CALIBRATION

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124018.D
Sample Name: 456991-001,282368,2x,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 7
Acq Operator : GSG Location : Vial 5
Injection Date : 1/24/2022 1:27:01 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/24/2022 1:58:13 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 2.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.290 | BB | 0.251 | 3.325e-3 | 0.002 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.376 | BB | 22916.990 | 4.441e-4 | 20.356 | Oxygen+Argon |
| 2.840 | BB | 705.077 | 4.029e-4 | 0.568 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124018.D
Sample Name: 456991-001,282368,2x,PDF:1 2

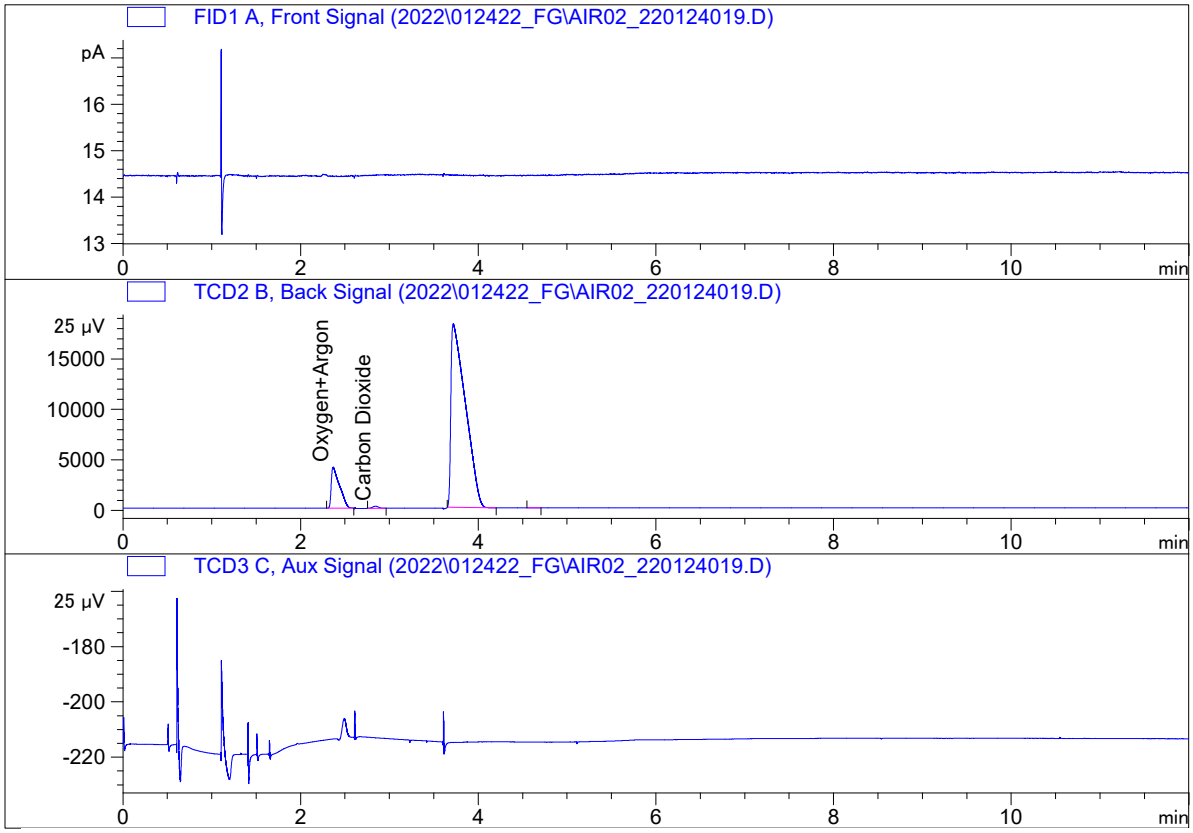
| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124019.D
Sample Name: 456991-002,282368,2x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 8 |
| Acq Operator | : GSG | Location | : Vial 6 |
| Injection Date | : 1/24/2022 1:42:55 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |

Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 2.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.364 | BB S | 26073.588 | 4.441e-4 | 23.160 | Oxygen+Argon |
| 2.841 | BB | 961.399 | 4.029e-4 | 0.775 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124019.D
Sample Name: 456991-002,282368,2x,PDF:1 2

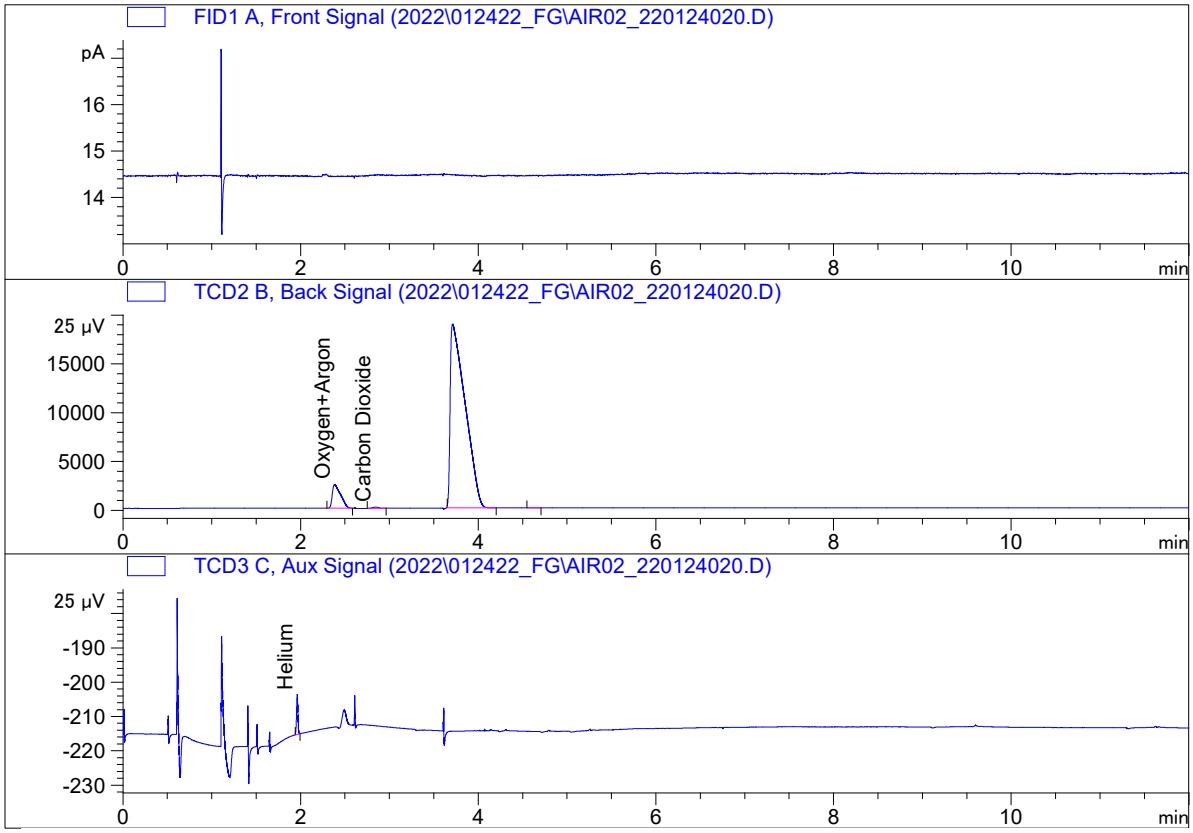
| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124020.D
Sample Name: 456991-003,282368,3x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 9 |
| Acq Operator | : GSG | Location | : Vial 7 |
| Injection Date | : 1/24/2022 1:58:53 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |

Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 3.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.382 | BB | 15600.712 | 4.441e-4 | 20.786 | Oxygen+Argon |
| 2.841 | BB | 574.168 | 4.029e-4 | 0.694 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124020.D
Sample Name: 456991-003,282368,3x,PDF:1 2

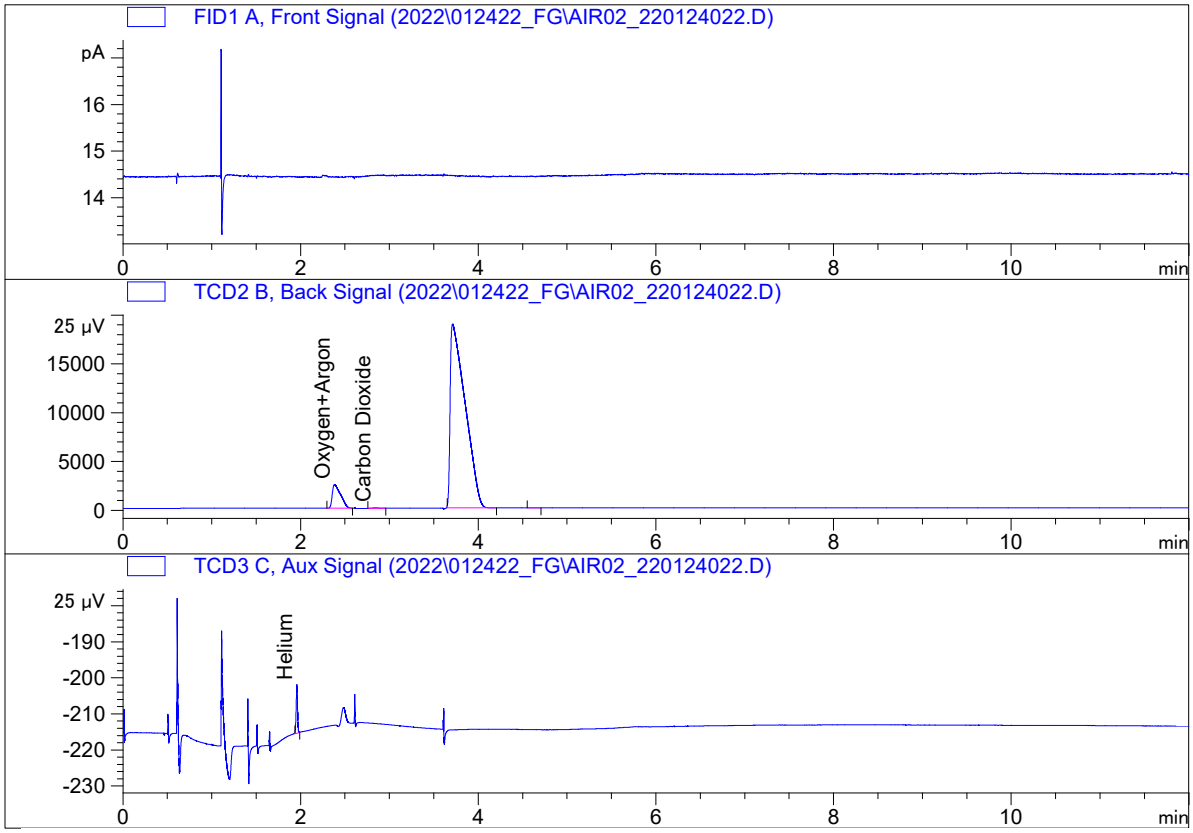
| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.961 | BB | 12.773 | 9.762e-3 | 0.374 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124022.D
Sample Name: 456991-004,282368,3x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 11 |
| Acq Operator | : GSG | Location | : Vial 8 |
| Injection Date | : 1/24/2022 2:30:47 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |

Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 3.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.382 | BB | 15651.677 | 4.441e-4 | 20.854 | Oxygen+Argon |
| 2.842 | BB | 247.358 | 4.029e-4 | 0.299 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

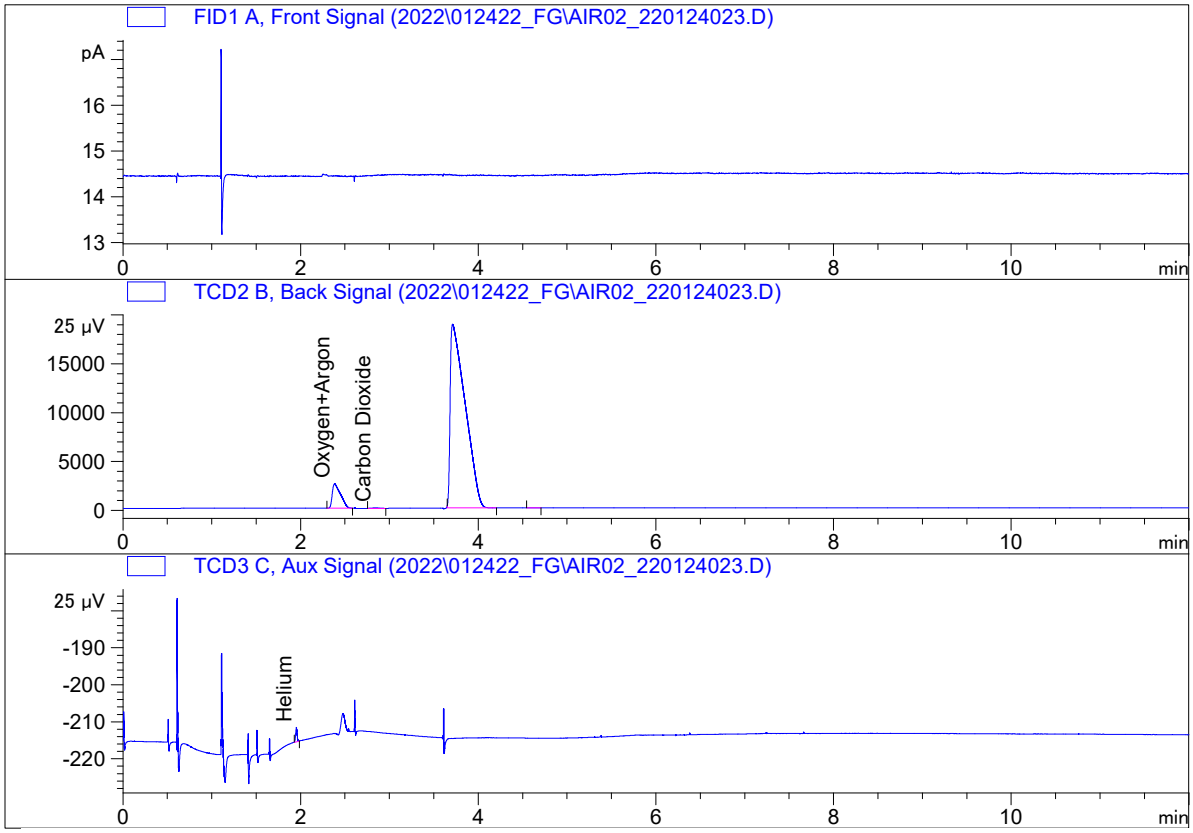
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124022.D
Sample Name: 456991-004,282368,3x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.957 | BB | 14.802 | 9.762e-3 | 0.433 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124023.D
Sample Name: 456991-005,282368,3x,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 12
Acq Operator : GSG Location : Vial 9
Injection Date : 1/24/2022 2:46:49 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 3.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.381 | BB | 15986.609 | 4.441e-4 | 21.300 | Oxygen+Argon |
| 2.841 | BB | 277.375 | 4.029e-4 | 0.335 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

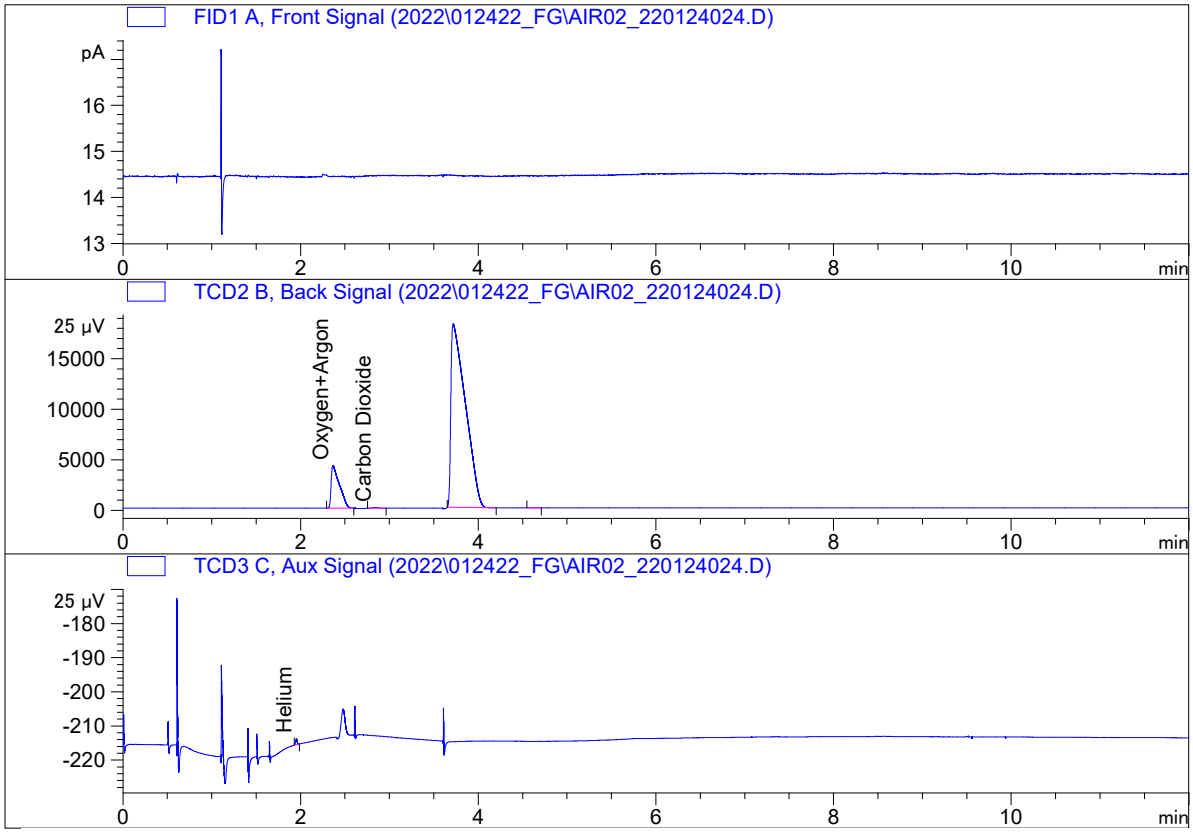
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124023.D
Sample Name: 456991-005,282368,3x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.952 | BB | 4.543 | 9.762e-3 | 0.133 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124024.D
Sample Name: 456991-006,282368,2x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 13 |
| Acq Operator | : GSG | Location | : Vial 10 |
| Injection Date | : 1/24/2022 3:02:51 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |
| Acq. Method | : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M | | |
| Analysis Method | : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M | | |
| Last Changed | : 1/12/2022 4:06:02 PM | | |




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 2.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.364 | BB S | 27139.689 | 4.441e-4 | 24.107 | Oxygen+Argon |
| 2.843 | BB | 366.053 | 4.029e-4 | 0.295 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

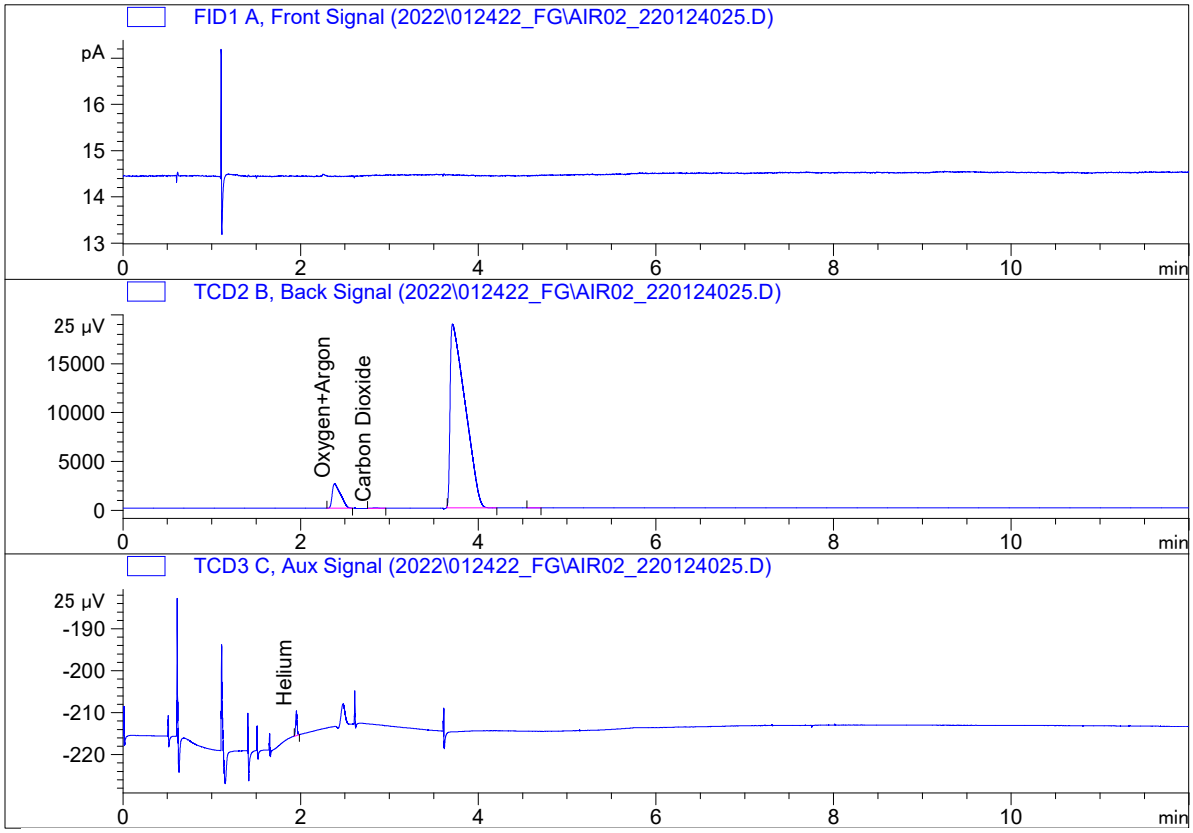
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124024.D
Sample Name: 456991-006,282368,2x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.952 | BB | 2.281 | 9.762e-3 | 0.045 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124025.D
Sample Name: 456991-007,282368,3x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 14 |
| Acq Operator | : GSG | Location | : Vial 11 |
| Injection Date | : 1/24/2022 3:18:55 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |
| Acq. Method | : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M | | |
| Analysis Method | : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M | | |
| Last Changed | : 1/12/2022 4:06:02 PM | | |




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 3.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.381 | BB | 16065.944 | 4.441e-4 | 21.406 | Oxygen+Argon |
| 2.841 | BB | 252.197 | 4.029e-4 | 0.305 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

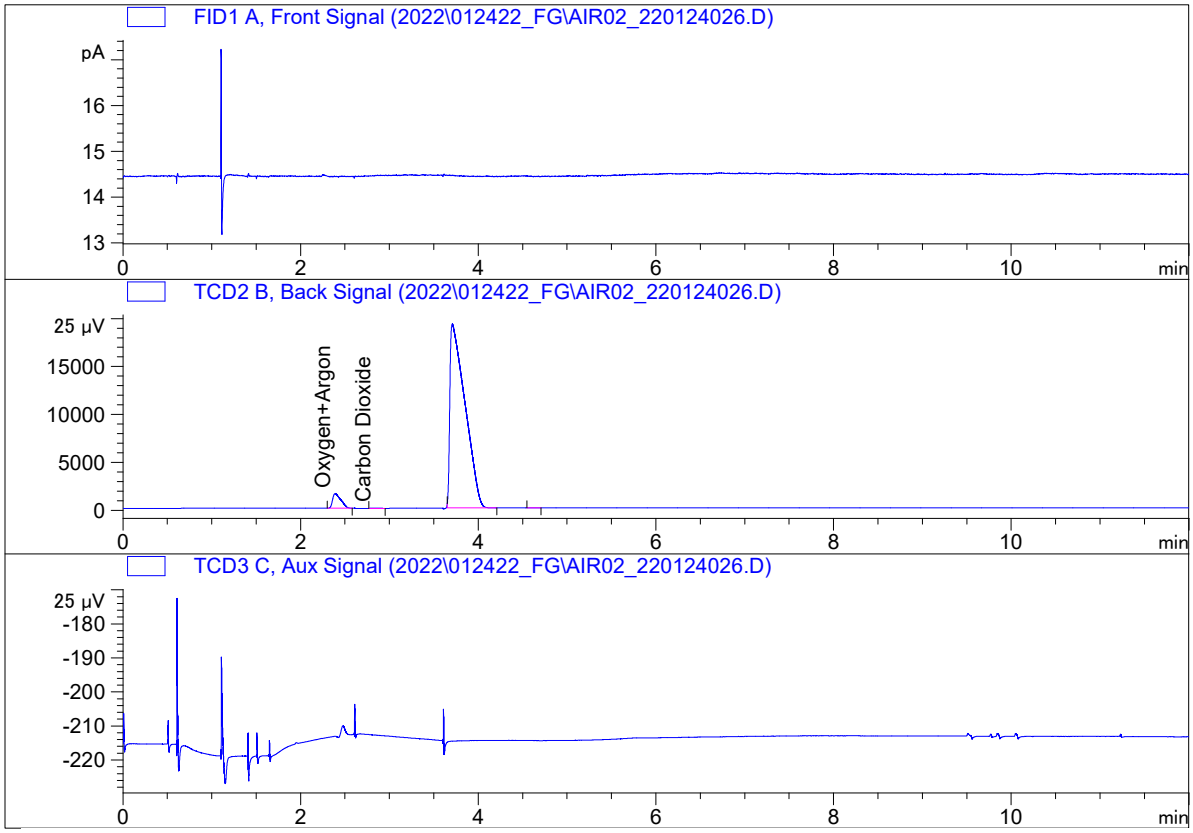
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124025.D
Sample Name: 456991-007,282368,3x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.952 | BB | 6.800 | 9.762e-3 | 0.199 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124026.D
Sample Name: 456991-008,282368,5x,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 15 |
| Acq Operator | : GSG | Location | : Vial 12 |
| Injection Date | : 1/24/2022 3:35:01 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |
| Acq. Method | : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M | | |
| Analysis Method | : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M | | |
| Last Changed | : 1/12/2022 4:06:02 PM | | |




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 5.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.388 | BB | 9742.333 | 4.441e-4 | 21.634 | Oxygen+Argon |
| 2.841 | BB | 130.710 | 4.029e-4 | 0.263 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124026.D
Sample Name: 456991-008,282368,5x,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

# RAW DATA

# SEQUENCE QUALITY CONTROL

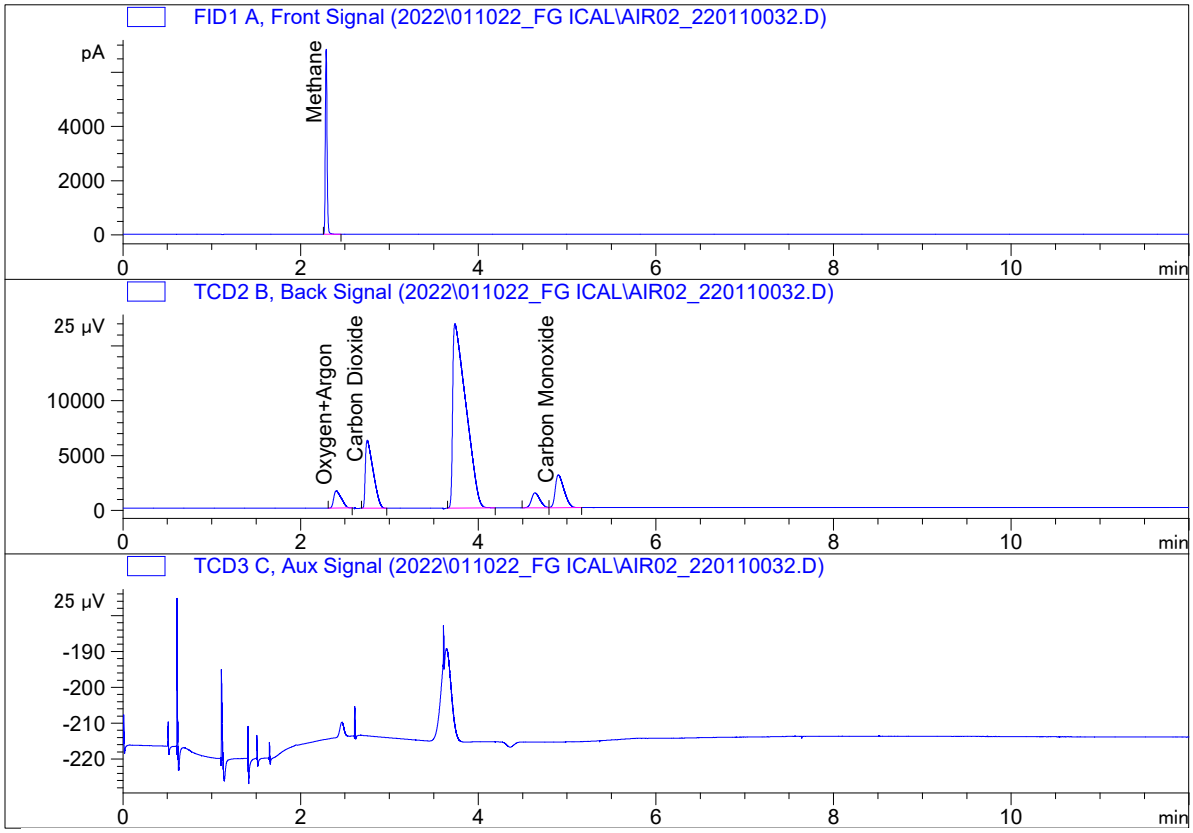
# Initial and Continuing Calibration Verifications and Blanks

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
931 W. Barkley Ave., Orange, CA 92868 • T: (714) 771-6900 • F: (714) 531-1209
www.enthalpy.com/socal

Data file : C:\CHEM32\1\DATA\2022\011022_FG ICAL\AIR02_220110032.D
Sample Name: FG ICV1,S14249,4% 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 17 |
| Acq Operator | : GSG | Location | : Vial 3 |
| Injection Date | : 1/10/2022 5:29:33 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |

Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/11/2022 2:36:53 PM




## External Standard Report

Calib. Data Modified : 1/11/2022 02:36:46 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.288 | BB S | 9258.878 | 4.452e-4 | 4.122 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.400 | BB | 9276.855 | 4.441e-4 | 4.120 | Oxygen+Argon |
| 2.750 | BB S | 37320.906 | 4.029e-4 | 15.037 | Carbon Dioxide |
| 4.901 | VB | 20518.846 | 3.431e-4 | 7.040 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\011022_FG ICAL\AIR02_220110032.D
Sample Name: FG ICV1,S14249,4% 2

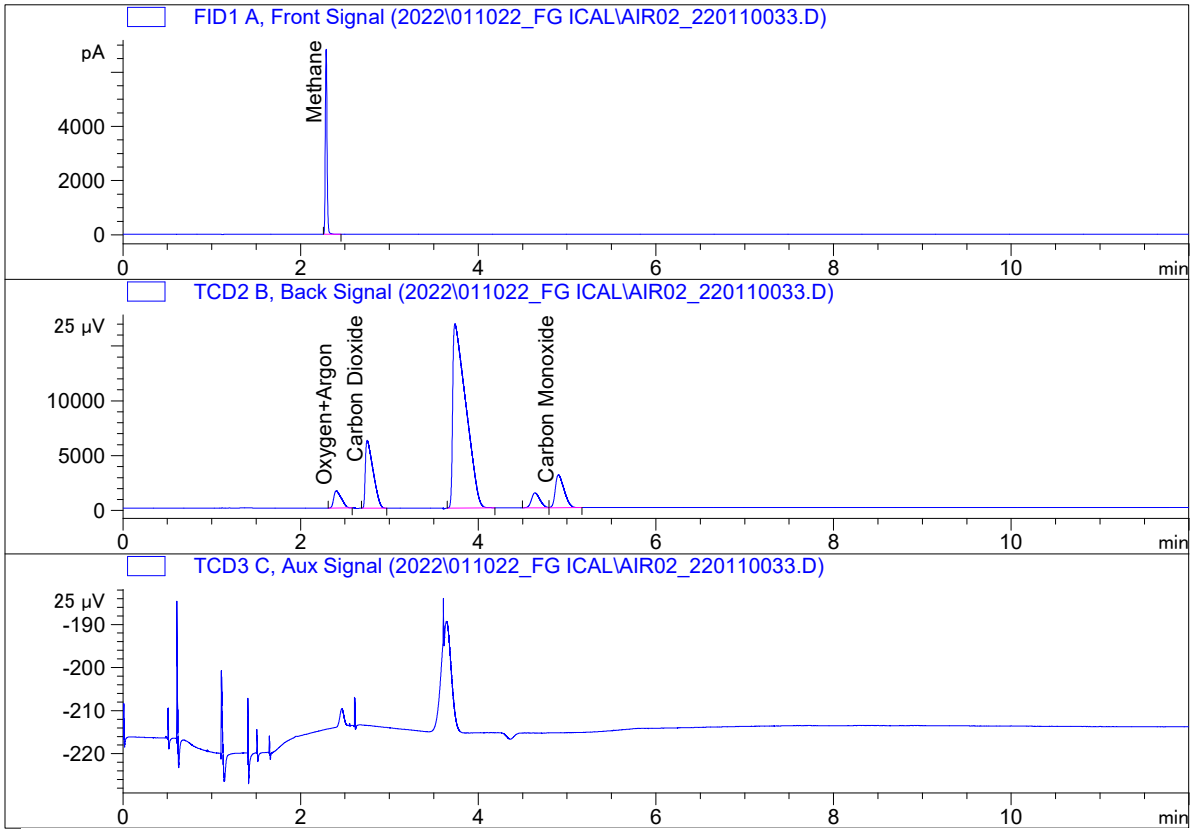
| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\011022_FG ICAL\AIR02_220110033.D
Sample Name: FG ICV1,S14249,4% 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 18 |
| Acq Operator | : GSG | Location | : Vial 3 |
| Injection Date | : 1/10/2022 5:45:20 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |

Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/11/2022 2:36:53 PM




## External Standard Report

Calib. Data Modified : 1/11/2022 02:36:46 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.288 | BB S | 9267.063 | 4.452e-4 | 4.126 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.400 | BB | 9280.422 | 4.441e-4 | 4.122 | Oxygen+Argon |
| 2.750 | BB S | 37319.496 | 4.029e-4 | 15.037 | Carbon Dioxide |
| 4.902 | VB | 20520.021 | 3.431e-4 | 7.040 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

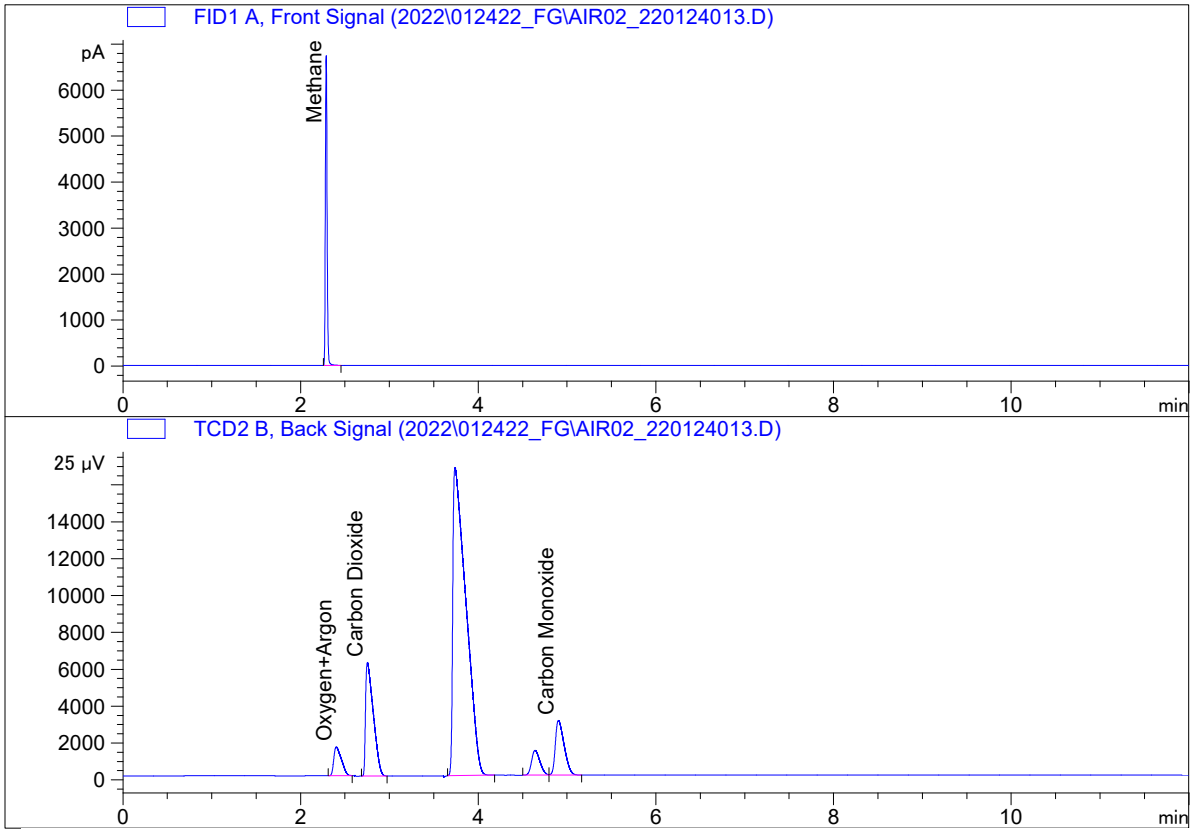
Data file : C:\CHEM32\1\DATA\2022\011022_FG ICAL\AIR02_220110033.D
Sample Name: FG ICV1,S14249,4% 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124013.D
Sample Name: FG CCV/BS,QC968076,282368,S14249,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 2
Acq Operator : GSG Location : Vial 3
Injection Date : 1/24/2022 12:08:27 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.289 | BB S | 9123.771 | 4.452e-4 | 4.062 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.402 | BB | 9238.147 | 4.441e-4 | 4.103 | Oxygen+Argon |
| 2.752 | BB S | 37120.176 | 4.029e-4 | 14.957 | Carbon Dioxide |
| 4.902 | VB | 20389.414 | 3.431e-4 | 6.995 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

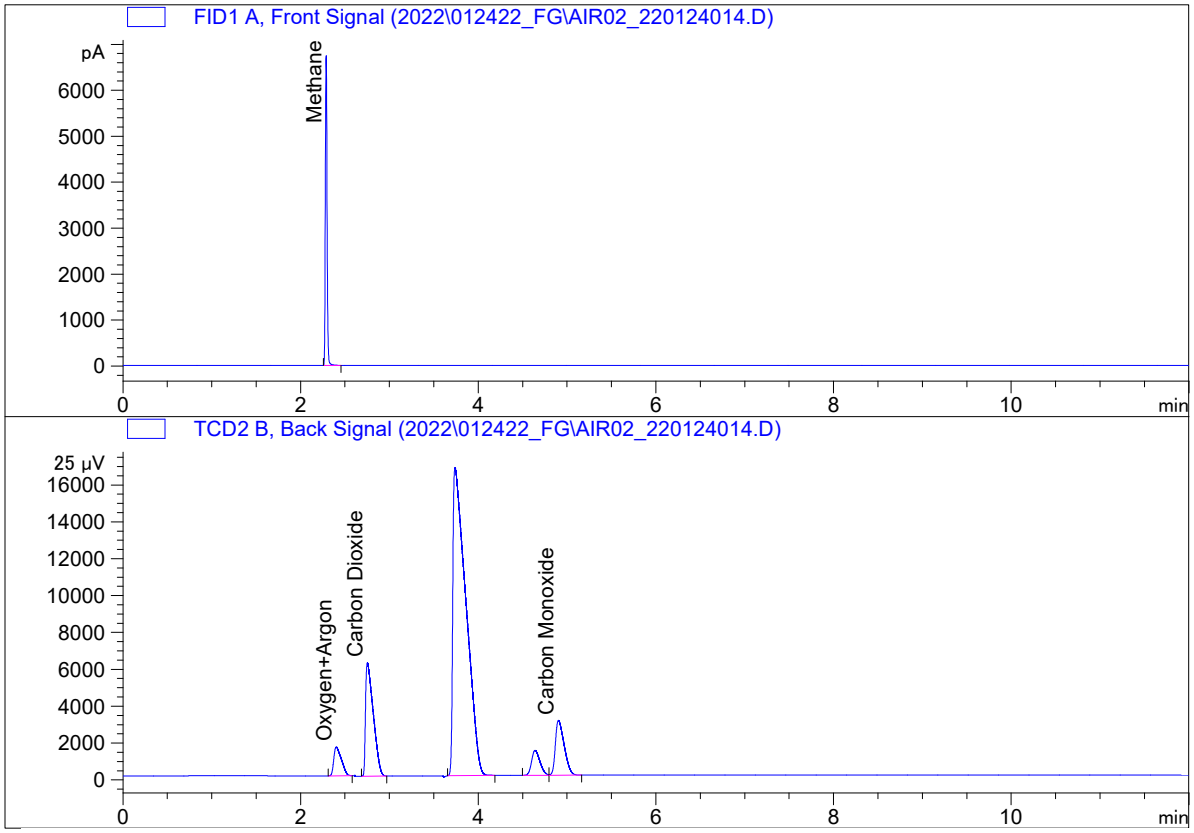
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124013.D
Sample Name: FG CCV/BS,QC968076,282368,S14249,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124014.D
Sample Name: FG CCV/BSD,QC968077,28236814249,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 3
Acq Operator : GSG Location : Vial 3
Injection Date : 1/24/2022 12:24:16 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.288 | BB S | 9140.774 | 4.452e-4 | 4.069 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.401 | BB | 9226.746 | 4.441e-4 | 4.098 | Oxygen+Argon |
| 2.752 | BB S | 37030.727 | 4.029e-4 | 14.921 | Carbon Dioxide |
| 4.902 | VB | 20391.520 | 3.431e-4 | 6.996 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

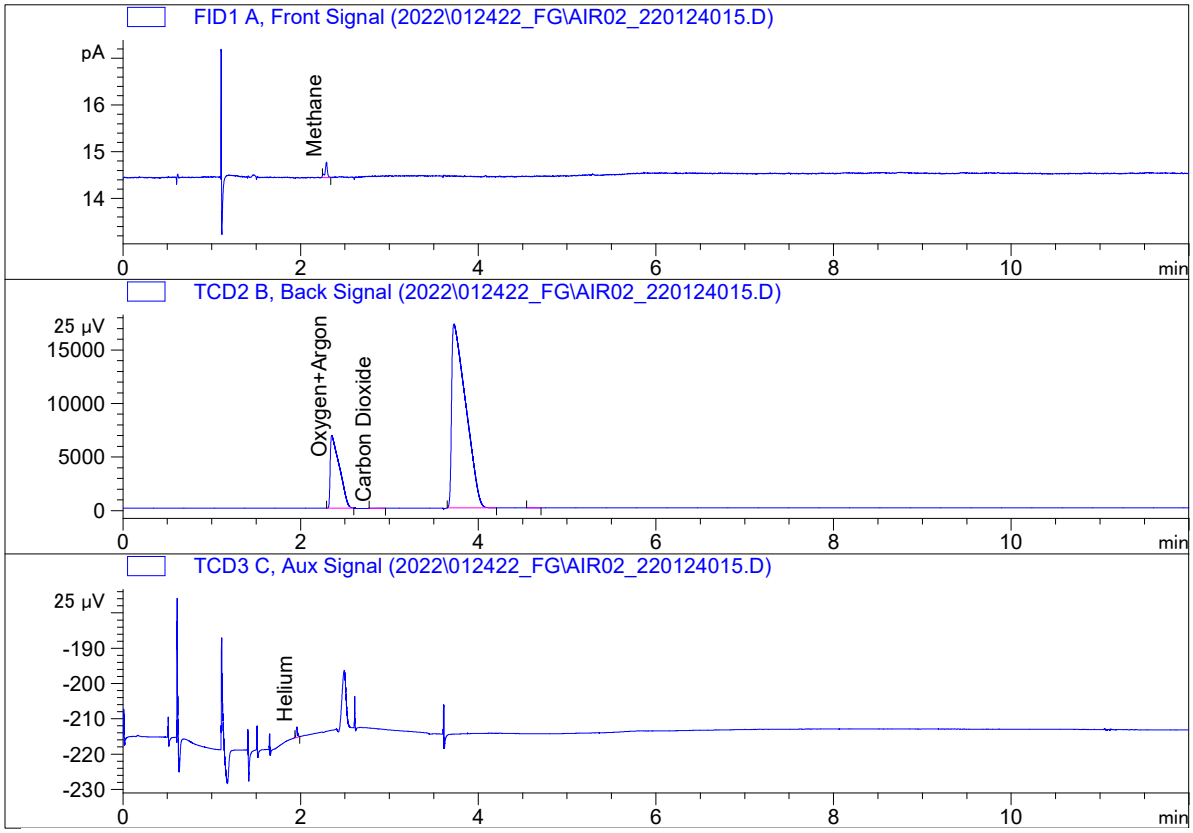
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124014.D
Sample Name: FG CCV/BSD,QC968077,28236814249,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124015.D
Sample Name: Lab Air 1

Acq. Instrument : AIR-GC02 Seq Line : 4
Acq Operator : GSG Location : Vial 2
Injection Date : 1/24/2022 12:40:03 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/24/2022 1:58:13 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.291 | BB | 0.569 | 1.717e-3 | 0.001 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.349 | BBAS | 48324.629 | 4.441e-4 | 21.462 | Oxygen+Argon |
| 2.845 | BB | 123.301 | 4.029e-4 | 0.050 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

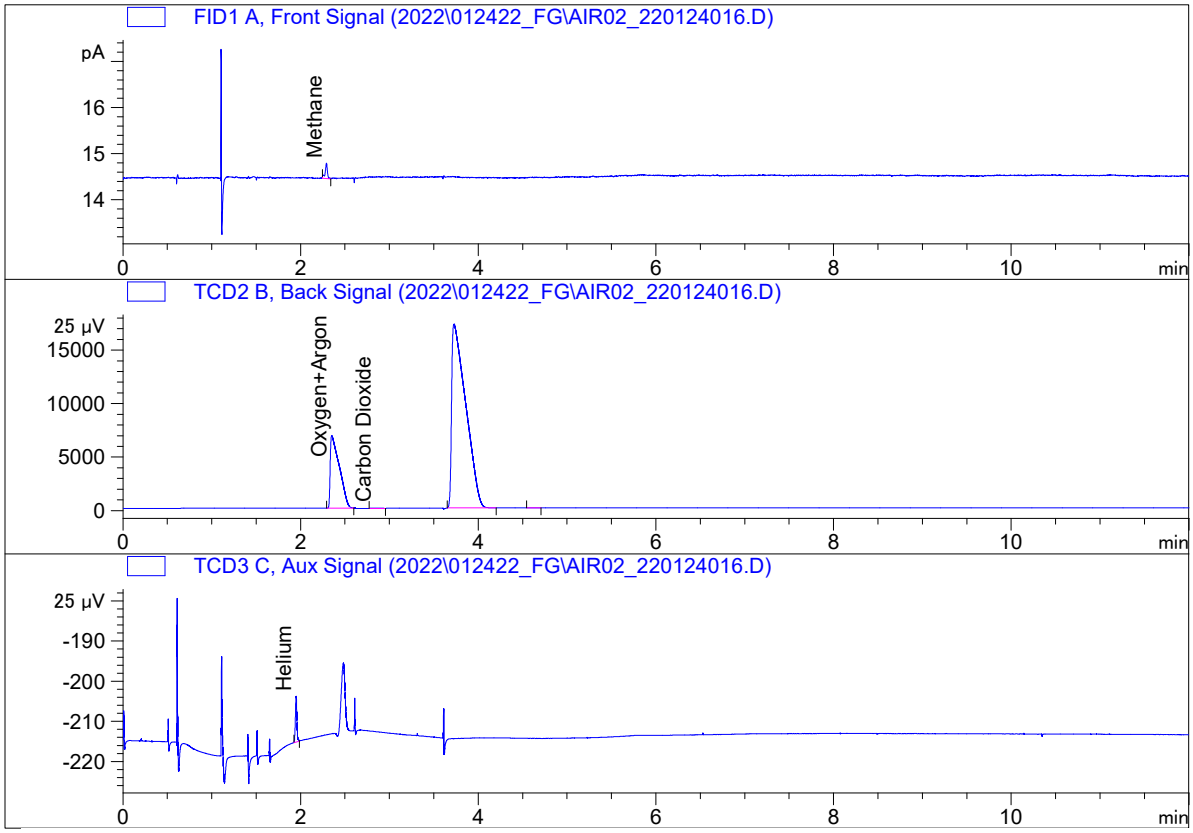
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124015.D
Sample Name: Lab Air 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.957 | BB | 3.408 | 9.762e-3 | 0.033 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124016.D
Sample Name: Lab Air Dup 1

Acq. Instrument : AIR-GC02 Seq Line : 5
Acq Operator : GSG Location : Vial 2
Injection Date : 1/24/2022 12:55:49 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/24/2022 1:58:13 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.291 | BB | 0.586 | 1.681e-3 | 0.001 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.349 | BBAS | 48254.539 | 4.441e-4 | 21.431 | Oxygen+Argon |
| 2.845 | BB | 117.334 | 4.029e-4 | 0.047 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

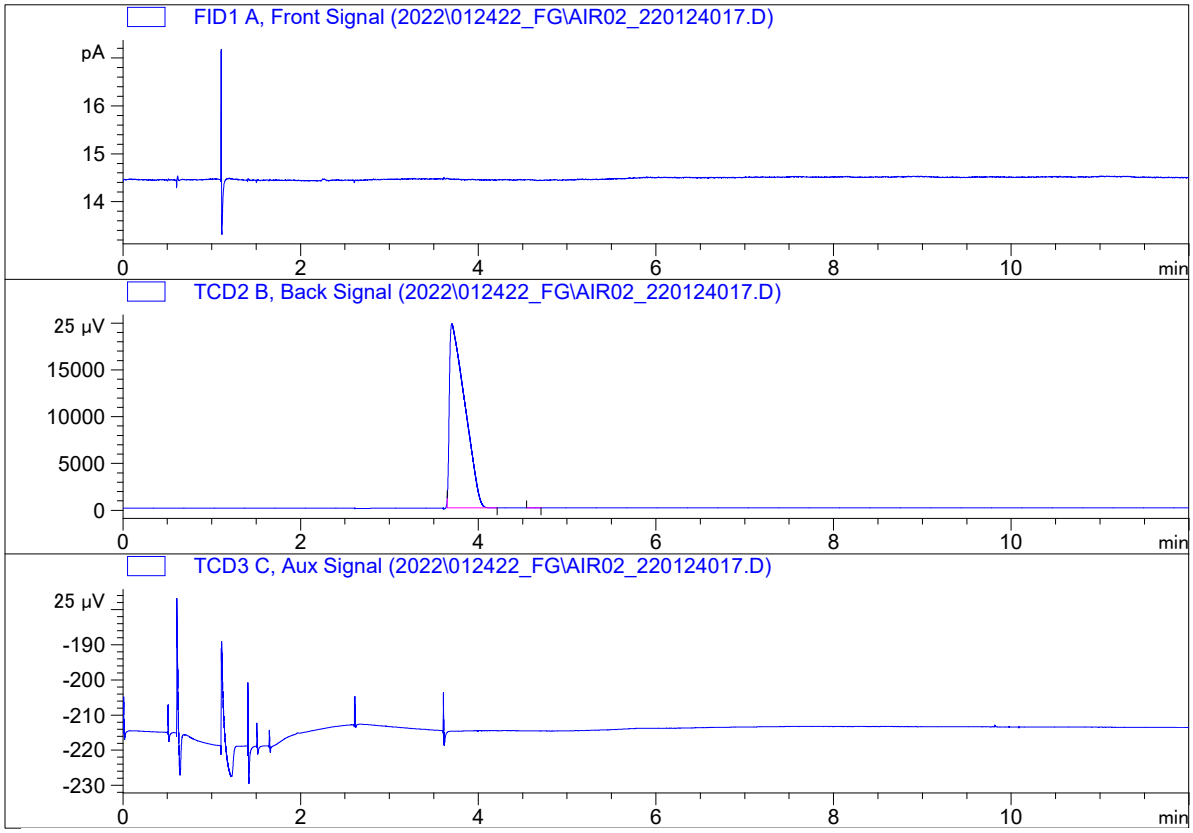
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124016.D
Sample Name: Lab Air Dup 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.949 | BB | 13.566 | 9.762e-3 | 0.132 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124017.D
Sample Name: BLANK,QC968078,282368,1x,PDF:1 1

Acq. Instrument : AIR-GC02 Seq Line : 6
Acq Operator : GSG Location : Vial 1
Injection Date : 1/24/2022 1:11:08 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Oxygen+Argon |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124017.D
Sample Name: BLANK,QC968078,282368,1x,PDF:1 2

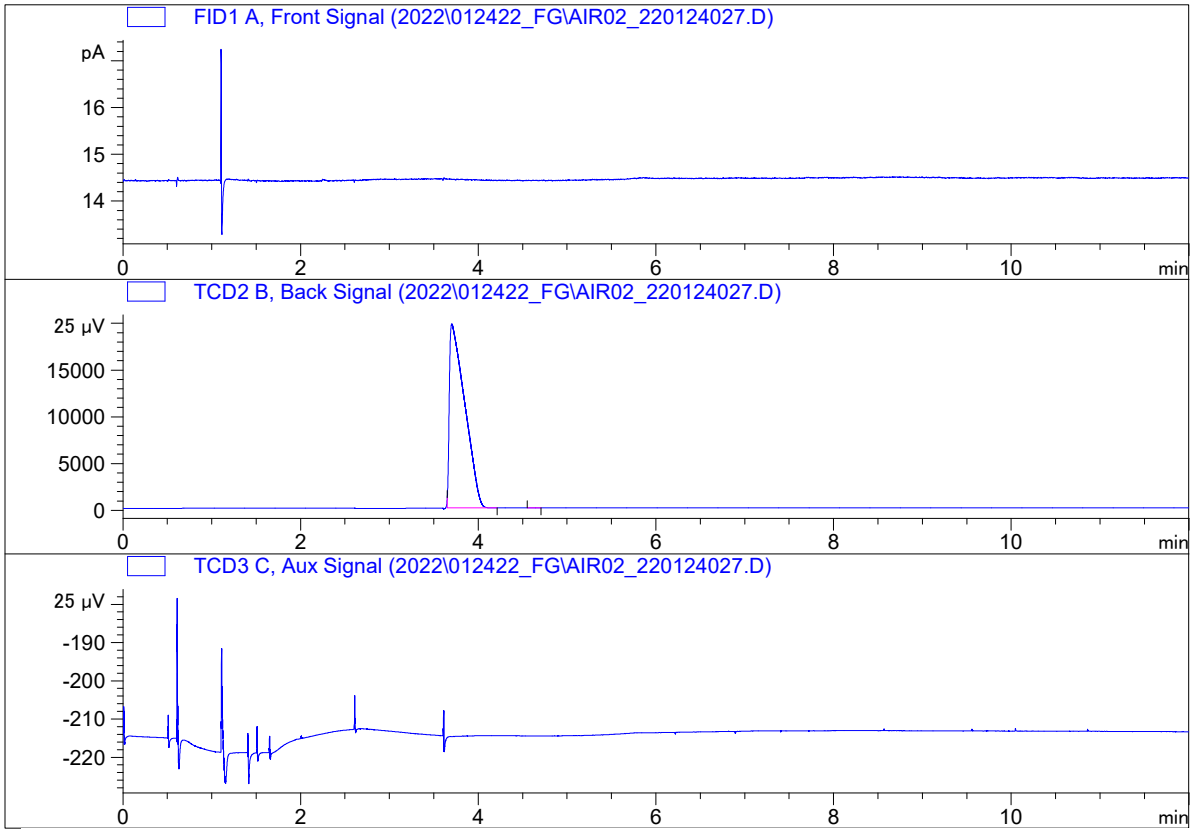
| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124027.D
Sample Name: Closing BLK 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 16 |
| Acq Operator | : GSG | Location | : Vial 1 |
| Injection Date | : 1/24/2022 3:50:17 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |

Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/12/2022 4:06:02 PM




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Oxygen+Argon |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

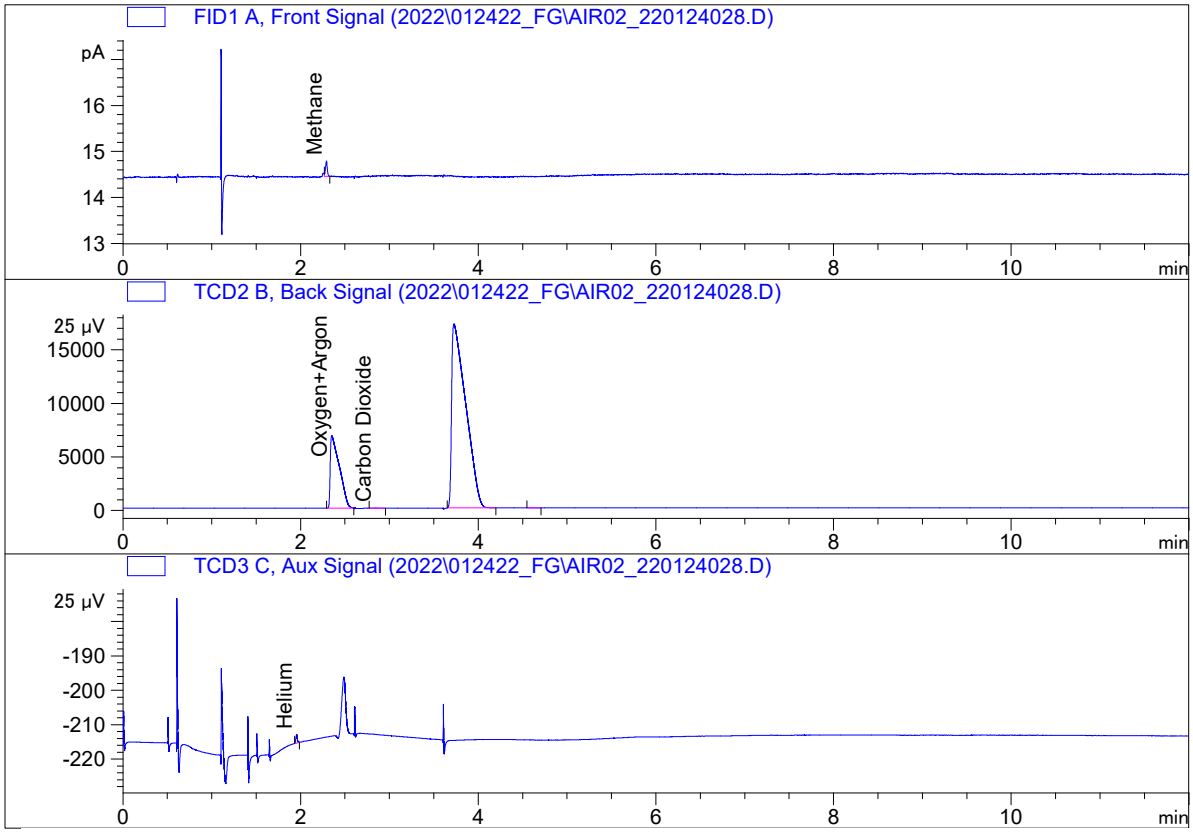
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124027.D
Sample Name: Closing BLK 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124028.D
Sample Name: Closing Lab Air 1

Acq. Instrument : AIR-GC02 Seq Line : 17
Acq Operator : GSG Location : Vial 2
Injection Date : 1/24/2022 4:06:03 PM Inj. No. : 1
Inj. Vol. : 3100 µl
Acq. Method : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M
Analysis Method : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M
Last Changed : 1/24/2022 4:20:43 PM




External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.291 | BB | 0.458 | 2.027e-3 | 0.001 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.350 | BBAS | 48096.410 | 4.441e-4 | 21.361 | Oxygen+Argon |
| 2.845 | BB | 120.759 | 4.029e-4 | 0.049 | Carbon Dioxide |
| 0.000 | | 0.000 | 0.000 | 0.000 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

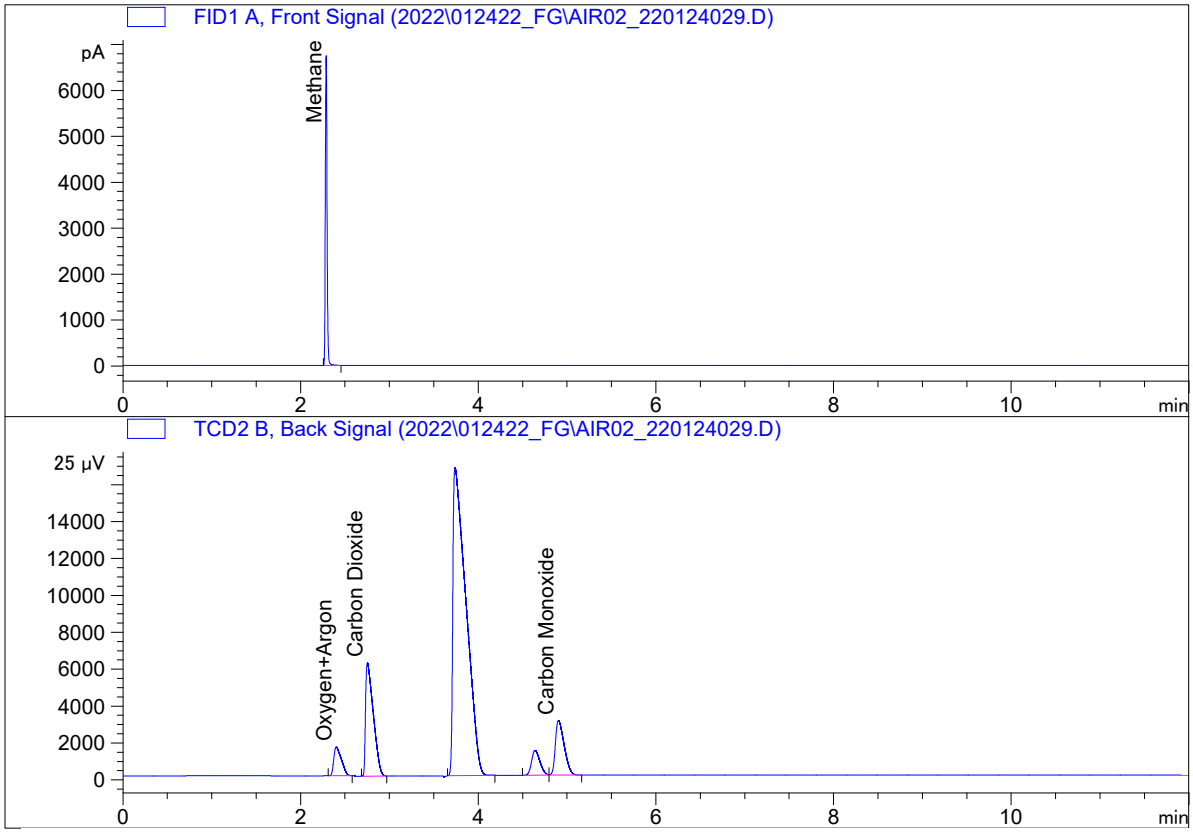
Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124028.D
Sample Name: Closing Lab Air 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 1.954 | BB | 3.007 | 9.762e-3 | 0.029 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124029.D
Sample Name: Closing FG CCV,S14249,PDF:1 1

| | | | |
|---|---|---|---|
| Acq. Instrument | : AIR-GC02 | Seq Line | : 18 |
| Acq Operator | : GSG | Location | : Vial 3 |
| Injection Date | : 1/24/2022 4:21:52 PM | Inj. No. | : 1 |
| | | Inj. Vol. | : 3100 µl |
| Acq. Method | : C:\CHEM32\1\METHODS\D1946_C1C6+HC_ACQ_210211_2.M | | |
| Analysis Method | : C:\CHEM32\1\QUANT METHODS\D1946_C1C6+HC_011022_1.M | | |
| Last Changed | : 1/12/2022 4:06:02 PM | | |




## External Standard Report

Calib. Data Modified : 1/12/2022 04:04:40 pm
Multiplier : 1.000000
Dilution : 1.000000
Signal : FID1 A, Front Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.288 | BB S | 9135.380 | 4.452e-4 | 4.067 | Methane |

Signal : TCD2 B, Back Signal

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 2.401 | BB | 9211.184 | 4.441e-4 | 4.091 | Oxygen+Argon |
| 2.752 | BB S | 36958.027 | 4.029e-4 | 14.891 | Carbon Dioxide |
| 4.902 | VB | 20353.381 | 3.431e-4 | 6.983 | Carbon Monoxide |

Signal : TCD3 C, Aux Signal

Data file : C:\CHEM32\1\DATA\2022\012422_FG\AIR02_220124029.D
Sample Name: Closing FG CCV,S14249,PDF:1 2

| Ret. Time [min] | Type | Area Response | RF | Amount [%v/v] | Compound Name |
|---|---|---|---|---|---|
| 0.000 | | 0.000 | 0.000 | 0.000 | Helium |
| 0.000 | | 0.000 | 0.000 | 0.000 | Hydrogen |

*** End of Report ***

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 456991
Report Level: IV
Report Date: 02/22/2022

**Volatile Organics in Air GC - TO3**

**Analytical Report** *prepared for:*

Marvin Heskett
Element Environmental, LLC
98-030 Hekaha Street
Unit 9
Aiea, HI 96701

Project: 180025 - Red Hill Soil Vapor Monitoring

*Authorized for release by:*



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

# Sample Summary

Marvin Heskett
Element Environmental, LLC
98-030 Hekaha Street
Unit 9
Aiea, HI 96701

Lab Job #: 456991
Project No: 180025
Location: Red Hill Soil Vapor Monitoring
Date Received: 01/19/22

| Sample ID | Lab ID | Collected | Matrix |
|---|---|---|---|
| SVMP-15S | 456991-001 | 01/17/22 12:41 | Air |
| SVMP-15D | 456991-002 | 01/17/22 12:48 | Air |
| SVMP-17S | 456991-003 | 01/17/22 13:06 | Air |
| SVMP-17D | 456991-004 | 01/17/22 13:07 | Air |
| SVMP-18S | 456991-005 | 01/17/22 13:20 | Air |
| SVMP-18D | 456991-006 | 01/17/22 13:21 | Air |
| SVMP-20M | 456991-007 | 01/17/22 13:35 | Air |
| SVMP-20D | 456991-008 | 01/17/22 13:38 | Air |

# Case Narrative

## VOLATILE ORGANICS IN AIR GC - TO3 (EPA TO-3M)

| | |
|---|---|
| Element Environmental, LLC | Lab Job Number: 456991 |
| 98-030 Hekaha Street | Project No: 180025 |
| Unit 9 | Location: Red Hill Soil Vapor Monitoring |
| Aiea, HI 96701 | Date Received: 01/19/22 |
| Marvin Heskett | |

This data package contains sample and QC results for eight air samples, requested for the above referenced project on 01/19/22. See attached cooler receipt form for any sample receipt problems or discrepancies.

**Volatile Organics in Air GC - TO3 (EPA TO-3M):**

No analytical problems were encountered.

**Chain of Custody**

# ENTHALPY ANALYTICAL

## Air Chain of Custody Record

Lab No: 45 6991

Page: 1 of 1

**Turn Around Time (rush by advanced notice only)**

| Standard: | | 5 Day: | X | 3 Day: | |
|---|---|---|---|---|---|
| 2 Day: | | 1 Day: | | Custom TAT: | |


**Enthalpy Analytical - Orange**

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900


| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| Company: | Element Environmental LLC | Name: | Red Hill Soil Vapor Monitoring |
| Report To: | Marvin Heskett | Number: | 180025 |
| Email: | mheskett@e2hi.com | P.O. #: | |
| Address: | 98-030 Hekaha St., Unit 9, Aiea, Hawaii 96701 | Address: | |
| Phone: | 808-728-4617 | Global ID: | |
| Fax: | | Sampled By: | AL/LH |

Special Instructions:
1. LEVEL IV Data Reporting, with additional anaylsis and text files data per discussion 9/14/21
2. Shipment contains three unused canisters (ID: C10595, C10543, C10535) and three unused controllers (ID: A10264, A10199, A10241).

*Note:*

s

| | Sample ID | Type | Equipment Information | | | Sampling Information | | | | | | Analysis Requested | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (I) Indoor (A) Ambient (SV) Soil Vapor (S) Source | Canister ID | Size (1L, 3L, 6L, 15L) | Flow Controller ID | Sample Start Date | Sample Start Time | Vacuum Start ("Hg) | Sample End Date | Sample End Time | Vacuum End ("Hg) | VOCs & TICs (TO-15) *C5-C12 (T-03) | Fixed Gases (ASTM D-1946 | | | | | | | |
| 1 | SVMP-15S | SV | C10699 | 1.4L | A10304 | 1/17/2022 | 12:33 | 29 | 1/17/2022 | 12:41 | 4.5 | X | X | | | | | | | |
| 2 | SVMP-15D | SV | C10625 | 1.4L | A10195 | 1/17/2022 | 12:40 | 29.0 | 1/17/2022 | 12:48 | 4.5 | X | X | | | | | | | |
| 3 | SVMP-17S | SV | C10280 | 1.4L | A10269 | 1/17/2022 | 12:57 | 29 | 1/17/2022 | 13:06 | 4.5 | X | X | | | | | | | |
| 4 | SVMP-17D | SV | C10557 | 1.4L | A10245 | 1/17/2022 | 12:58 | 28.0 | 1/17/2022 | 13:07 | 4.5 | X | X | | | | | | | |
| 5 | SVMP-18S | SV | C10759 | 1.4L | A10235 | 1/17/2022 | 13:12 | 29 | 1/17/2022 | 13:20 | 4.5 | X | X | | | | | | | |
| 6 | SVMP-18D | SV | C10630 | 1.4L | A10220 | 1/17/2022 | 13:13 | 30 | 1/17/2022 | 13:21 | 4.5 | X | X | | | | | | | |
| 7 | SVMP-20M | SV | C10549 | 1.4L | A10282 | 1/17/2022 | 13:28 | 27 | 1/17/2022 | 13:35 | 4.5 | X | X | | | | | | | |
| 8 | SVMP-20D | SV | C10582 | 1.4L | A10307 | 1/17/2022 | 13:29 | 30 | 1/17/2022 | 13:38 | 4.5 | X | X | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |

| | Signature | Print Name | Company / Title | Date / Time |
|---|---|---|---|---|
| [1] Relinquished By: | | Maya Matsuoka | Element Environmental LLC | 1/18/2021 (12:00) |
| [1] Received By: | | NICK O | EA | 1/19/22 09:45 |
| [2] Relinquished By: | | | | |
| [2] Received By: | | | | |
| [3] Relinquished By: | | | | |
| [3] Received By: | | | | |

ENTHALPY ANALYTICAL

# SAMPLE ACCEPTANCE CHECKLIST

**Section 1**

Client: Element Environmental, LLC  Project: Red Hill Soil Vapor Monitoring

Date Received: 1/19/22  Sampler's Name Present: ☑ Yes ☐ No

**Section 2**

Sample(s) received in a cooler? ☐ Yes, How many? _____ ☑ No (skip section 2)  Sample Temp (°C) (No Cooler): AMB

Sample Temp (°C), One from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: _____

**Section 3**

Was the cooler packed with: ☐ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____

| Section 4 | YES | NO | N/A |
|---|---|---|---|
| Was a COC received? | ✔ | | |
| Are sample IDs present? | ✔ | | |
| Are sampling dates & times present? | ✔ | | |
| Is a relinquished signature present? | ✔ | | |
| Are the tests required clearly indicated on the COC? | ✔ | | |
| Are custody seals present? | | ✔ | |
| If custody seals are present, were they intact? | | | ✔ |
| Are all samples sealed in plastic bags? (Recommended for Microbiology samples) | | | ✔ |
| Did all samples arrive intact? If no, indicate in Section 4 below. | ✔ | | |
| Did all bottle labels agree with COC? (ID, dates and times) | ✔ | | |
| Were the samples collected in the correct containers for the required tests? | ✔ | | |
| Are the containers labeled with the correct preservatives? | | | ✔ |
| Is there headspace in the VOA vials greater than 5-6 mm in diameter? | | | ✔ |
| Was a sufficient amount of sample submitted for the requested tests? | ✔ | | |

**Section 5** Explanations/Comments

**Section 6**

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: MVCB  Date: 1/19/22



ORIGIN ID:NAXA (808) 306-8615
JODIE TSUBONE
ELEMENT ENVIRONMENTAL LLC
98-030 HEKAHA ST.
SUITE 9
AIEA, HI 96701
UNITED STATES US

SHIP DATE: 18JAN22
ACTWGT: 26.45 LB
CAD: 0148956/CAFE3509
DIMS: 19x16x15 IN

BILL SENDER

TO SAMPLE RECEIVING
ENTHALPY ANALYTYICAL
931 W. BARKLEY AVE

ORANGE CA 92868
(714) 771-6900
REF: 180025
PO: 180025

FedEx Express

WED - 19 JAN 4:30P
STANDARD OVERNIGHT

TRK# 0201 4707 1911 7698

WZ APVA

92868
CA-US SNA

**Results & QC Summary**

ENTHALPY ANALYTICAL

# Gas range organics by EPA TO-3M

**Lab #:** 456991 **Project#:** 180025

**Client:** Element Environmental, LLC **Location:** Red Hill Soil Vapor Monitoring

**Field ID:** SVMP-15S **Diln Fac:** 2.000 **Analyzed:** 01/20/22 14:50
**Type:** SAMPLE **Batch#:** 282192 **Prep:**
**Lab ID:** 456991-001 **Sampled:** 01/17/22 12:41 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 01/19/22 **Analyst:** LJB

| Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| TPH (C5-C12) | ND | 0.050 | ppmv | ND | 0.20 | mg/m3 |

**Field ID:** SVMP-15D **Diln Fac:** 2.000 **Analyzed:** 01/20/22 15:19
**Type:** SAMPLE **Batch#:** 282192 **Prep:**
**Lab ID:** 456991-002 **Sampled:** 01/17/22 12:48 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 01/19/22 **Analyst:** LJB

| Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| TPH (C5-C12) | ND | 0.050 | ppmv | ND | 0.20 | mg/m3 |

**Field ID:** SVMP-17S **Diln Fac:** 2.000 **Analyzed:** 01/20/22 15:49
**Type:** SAMPLE **Batch#:** 282192 **Prep:**
**Lab ID:** 456991-003 **Sampled:** 01/17/22 13:06 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 01/19/22 **Analyst:** LJB

| Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH (C5-C12)** | **0.52** | 0.050 | ppmv | **2.1** | 0.20 | mg/m3 |

**Field ID:** SVMP-17D **Diln Fac:** 2.000 **Analyzed:** 01/20/22 16:18
**Type:** SAMPLE **Batch#:** 282192 **Prep:**
**Lab ID:** 456991-004 **Sampled:** 01/17/22 13:07 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 01/19/22 **Analyst:** LJB

| Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH (C5-C12)** | **0.31** | 0.050 | ppmv | **1.3** | 0.20 | mg/m3 |

**Field ID:** SVMP-18S **Diln Fac:** 2.000 **Analyzed:** 01/20/22 16:47
**Type:** SAMPLE **Batch#:** 282192 **Prep:**
**Lab ID:** 456991-005 **Sampled:** 01/17/22 13:20 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 01/19/22 **Analyst:** LJB

| Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH (C5-C12)** | **0.50** | 0.050 | ppmv | **2.0** | 0.20 | mg/m3 |

**Field ID:** SVMP-18D **Diln Fac:** 2.000 **Analyzed:** 01/20/22 17:17
**Type:** SAMPLE **Batch#:** 282192 **Prep:**
**Lab ID:** 456991-006 **Sampled:** 01/17/22 13:21 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 01/19/22 **Analyst:** LJB

| Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH (C5-C12)** | **0.21** | 0.050 | ppmv | **0.87** | 0.20 | mg/m3 |

ENTHALPY ANALYTICAL

# Gas range organics by EPA TO-3M

**Lab #:** 456991 **Project#:** 180025

**Client:** Element Environmental, LLC **Location:** Red Hill Soil Vapor Monitoring

**Field ID:** SVMP-20M **Diln Fac:** 2.000 **Analyzed:** 01/20/22 17:47
**Type:** SAMPLE **Batch#:** 282192 **Prep:**
**Lab ID:** 456991-007 **Sampled:** 01/17/22 13:35 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 01/19/22 **Analyst:** LJB

| Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH (C5-C12)** | **0.18** | 0.050 | ppmv | **0.72** | 0.20 | mg/m3 |

**Field ID:** SVMP-20D **Diln Fac:** 2.000 **Analyzed:** 01/20/22 18:16
**Type:** SAMPLE **Batch#:** 282192 **Prep:**
**Lab ID:** 456991-008 **Sampled:** 01/17/22 13:38 **Analysis:** EPA TO-3M
**Matrix:** Air **Received:** 01/19/22 **Analyst:** LJB

| Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| **TPH (C5-C12)** | **0.22** | 0.050 | ppmv | **0.91** | 0.20 | mg/m3 |

**Type:** BLANK **Diln Fac:** 1.000 **Prep:**
**Lab ID:** QC967567 **Batch#:** 282192 **Analysis:** EPA TO-3M
**Matrix:** Air **Analyzed:** 01/20/22 14:12 **Analyst:** LJB

| Analyte | Result (V) | RL (V) | Units (V) | Result (M) | RL (M) | Units (M) |
|---|---|---|---|---|---|---|
| TPH (C5-C12) | ND | 0.025 | ppmv | ND | 0.10 | mg/m3 |

Legend

**ND:** Not Detected
**RL (V):** Reporting Limit
**Result (M):** Result in mass units
**Result (V):** Result in volume units

ENTHALPY ANALYTICAL

# Gas range organics by EPA TO-3M: Batch QC

**Lab #:** 456991 **Project#:** 180025

**Client:** Element Environmental, LLC **Location:** Red Hill Soil Vapor Monitoring

**Type:** BS **Dil'n Fac:** 1.000 **Prep:**

**Lab ID:** QC967565 **Batch#:** 282192 **Analysis:** EPA TO-3M

**Matrix:** Air **Analyzed:** 01/20/22 12:44 **Analyst:** LJB

| Analyte | Spiked | Result (V) | Units (V) | %REC | Limits |
|---|---|---|---|---|---|
| TPH Gasoline | 2.500 | 2.343 | ppmv | 94 | 70-130 |

**Type:** BSD **Dil'n Fac:** 1.000 **Prep:**

**Lab ID:** QC967566 **Batch#:** 282192 **Analysis:** EPA TO-3M

**Matrix:** Air **Analyzed:** 01/20/22 13:14 **Analyst:** LJB

| Analyte | Spiked | Result (V) | Units (V) | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| TPH Gasoline | 2.500 | 2.301 | ppmv | 92 | 70-130 | 2 | 25 |

Legend

**RPD:** Relative Percent Difference

**Result (V):** Result in volume units

# Level IV Data Package

# 456991

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
931 W. Barkley Ave., Orange, CA 92868 • T: (714) 771-6900 • F: (714) 531-1209
www.enthalpy.com/socal

# Method
# TO-3M

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
931 W. Barkley Ave., Orange, CA 92868 • T: (714) 771-6900 • F: (714) 531-1209
www.enthalpy.com/socal

# Initial Calibration Summary

# Response Factor Report AIR-GC04

Method Path : C:\msdchem\1\methods\Quant Methods\
Method File : TO3M_211124_1.m
Title : AIR-GC04 TO-3M TPH-Gas
Last Update : Tue Nov 30 11:23:30 2021
Response Via : Initial Calibration

Calibration Files
1 =AIR04_112421009.D 2 =AIR04_112421010.D 3 =AIR04_112421011.D
4 =AIR04_112421012.D 5 =AIR04_112421013.D 6 =AIR04_112421014.D

| | Compound | 1 | 2 | 3 | 4 | 5 | 6 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1) H | TPH Gasoline | 2.067 | 1.887 | 1.885 | 1.458 | 1.409 | | 1.741 E9 | 16.72 |
| 2) H | TPH Gasoline ... | 2.067 | 1.887 | 1.885 | 1.458 | 1.409 | | 1.741 E9 | 16.72 |
| 3) H | TVOC as Hexane | | 1.469 | 1.447 | 1.303 | 1.294 | 1.295 | 1.362 E9 | 6.49 |
| 4) T | n-Hexane | | 1.469 | 1.447 | 1.303 | 1.294 | 1.295 | 1.362 E9 | 6.49 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421017.D
Acq On : 24 Nov 2021 6:06 pm
Operator : GSG
Sample : ICV,S16187,1x,PDF:1,2.5ppmv
Misc : I1 1x200mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 12:06:27 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

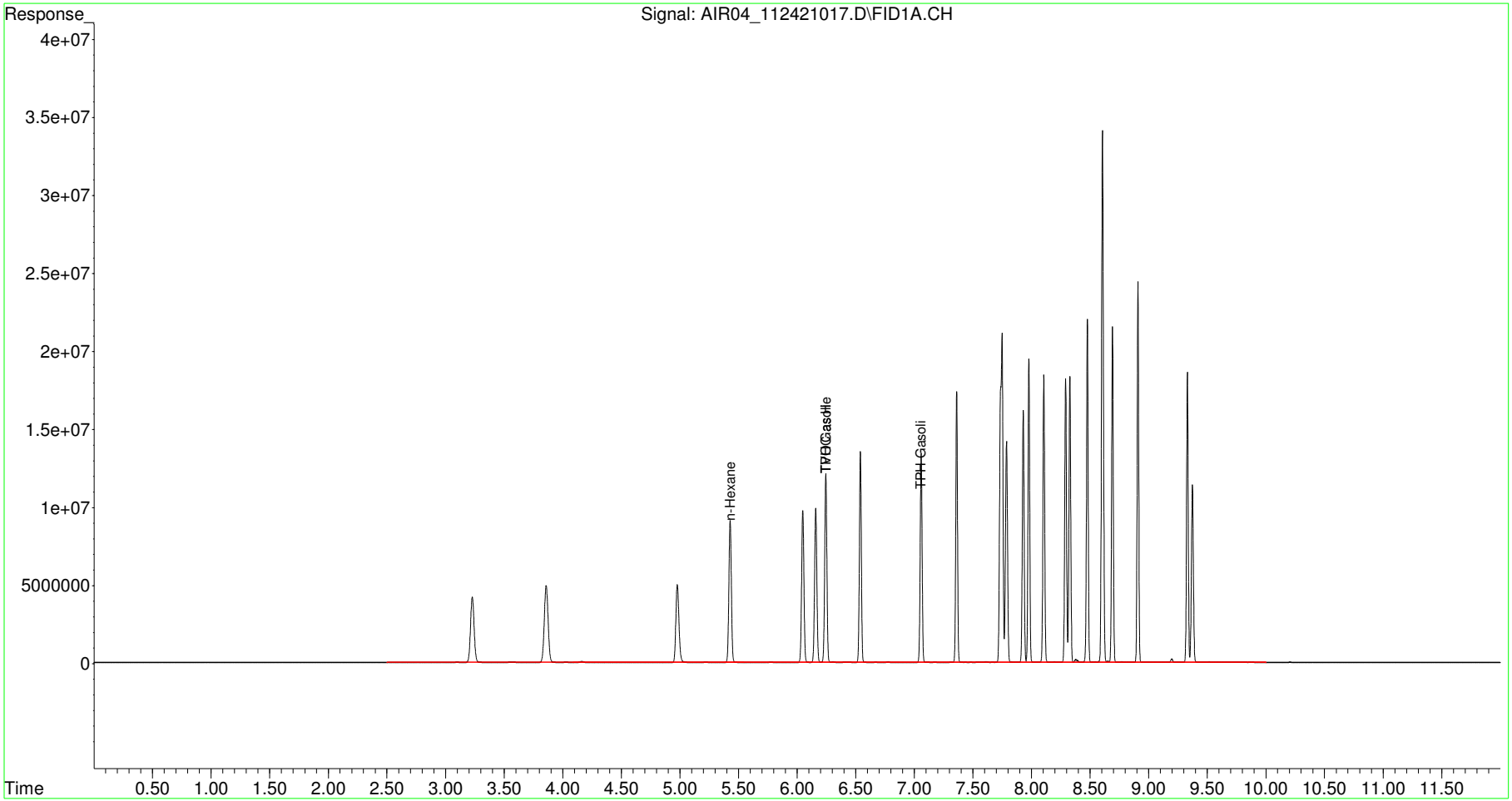
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 4164890159 | 2.392 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 3963127407 | 2.276 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 4164890159 | 3.059 uL/L |
| 4) T | n-Hexane | 5.428 | 132409782 | 0.097 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

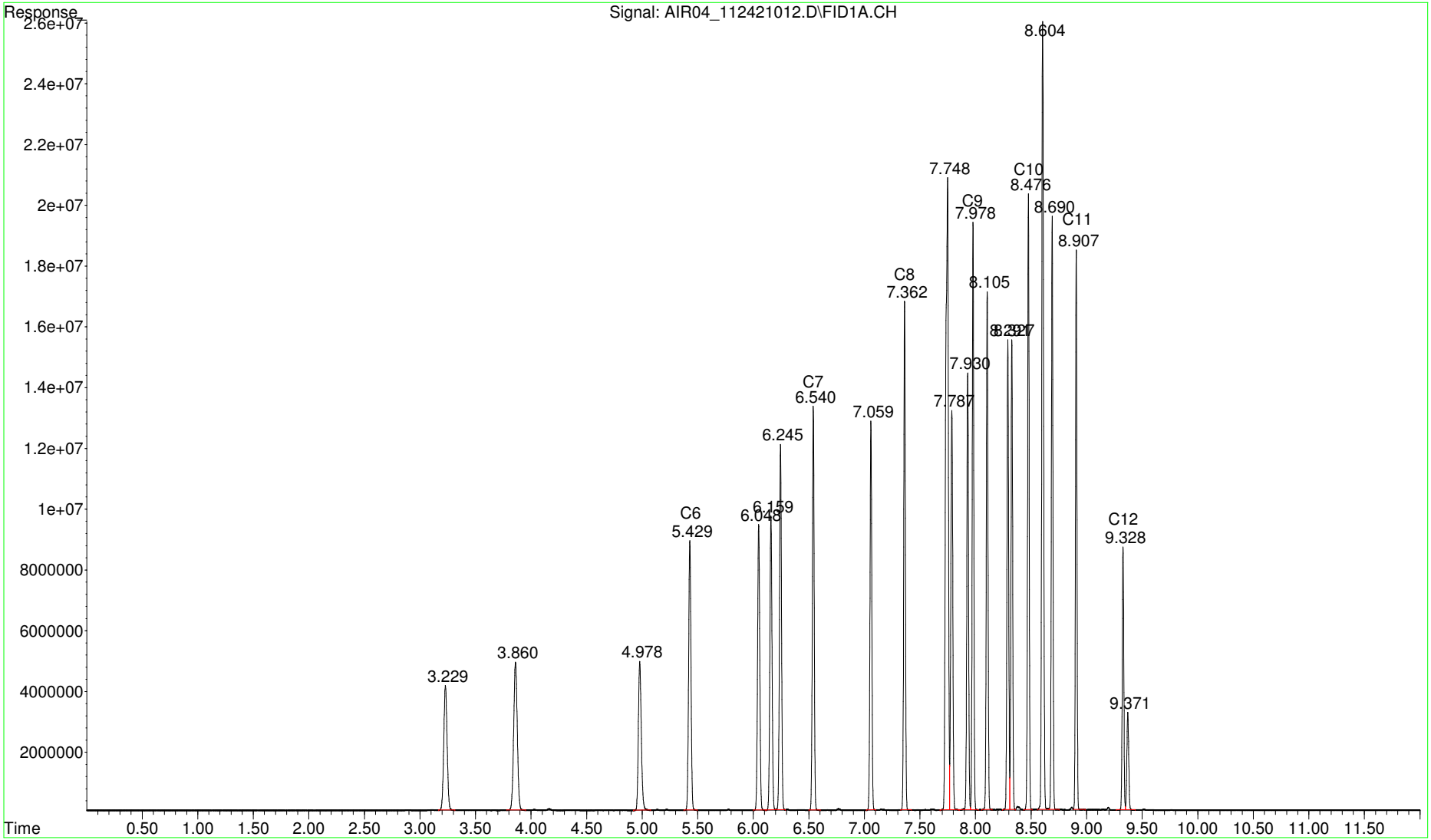
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421017.D
Acq On : 24 Nov 2021 6:06 pm
Operator : GSG
Sample : ICV,S16187,1x,PDF:1,2.5ppmv
Misc : I1 1x200mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 12:06:27 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



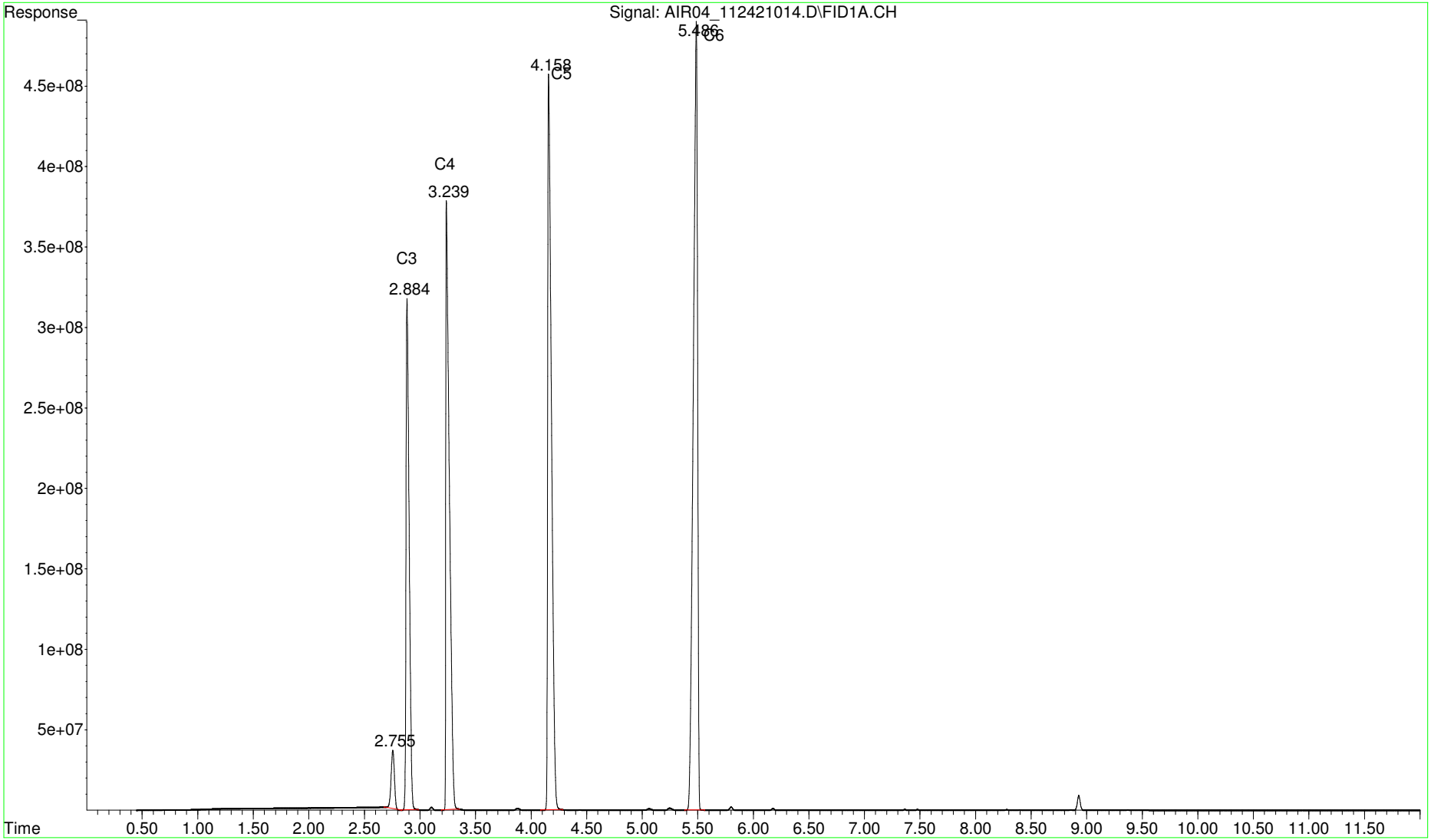
File :C:\msdchem\1\data\2021\211124_TO3 ICAL\AIR04_112421012.D
Operator : GSG
Acquired : 24 Nov 2021 3:43 pm using AcqMethod TO3M.M
Instrument : AIR-GC04
Sample Name: ICAL,S16186,1x,2.5ppmv
Misc Info : I2 1x200mL
Vial Number: 7



Signal: AIR04_112421012.D\FID1A.CH
ICAL,S16186,1x,2.5ppmv

| Peak # | Ret Time | Type | Width | Area | Start Time | End Time |
|---|---|---|---|---|---|---|
| 1 | 3.229 | BB | 0.033 | 85748494 | 3.168 | 3.315 |
| 2 | 3.860 | BB | 0.035 | 109707756 | 3.781 | 3.951 |
| 3 | 4.978 | BB | 0.028 | 88818725 | 4.921 | 5.075 |
| 4 | 5.429 | BB | 0.023 | 130081130 | 5.375 | 5.495 |
| 5 | 6.048 | BB | 0.022 | 128676789 | 6.001 | 6.111 |
| 6 | 6.159 | BV | 0.022 | 130910397 | 6.115 | 6.201 |
| 7 | 6.245 | VV | 0.020 | 151424191 | 6.201 | 6.288 |
| 8 | 6.540 | BB | 0.018 | 150577217 | 6.501 | 6.601 |
| 9 | 7.059 | BB | 0.018 | 144794078 | 7.018 | 7.101 |
| 10 | 7.362 | BB | 0.017 | 171254863 | 7.328 | 7.421 |
| 11 | 7.748 | BV | 0.024 | 350552114 | 7.681 | 7.768 |
| 12 | 7.787 | VB | 0.019 | 159689311 | 7.768 | 7.848 |
| 13 | 7.930 | BV | 0.018 | 155690621 | 7.855 | 7.954 |
| 14 | 7.978 | VB | 0.016 | 189530399 | 7.954 | 8.025 |
| 15 | 8.105 | BB | 0.016 | 174381245 | 8.055 | 8.148 |
| 16 | 8.291 | BV | 0.017 | 161226946 | 8.241 | 8.309 |
| 17 | 8.327 | VV | 0.017 | 157174821 | 8.309 | 8.358 |
| 18 | 8.476 | BB | 0.025 | 197630512 | 8.435 | 8.509 |
| 19 | 8.604 | BV | 0.018 | 297784805 | 8.558 | 8.661 |
| 20 | 8.690 | VB | 0.026 | 189888647 | 8.661 | 8.751 |
| 21 | 8.907 | VB | 0.031 | 168529824 | 8.880 | 8.988 |
| 22 | 9.328 | BV | 0.016 | 84274676 | 9.268 | 9.350 |
| 23 | 9.371 | VB | 0.019 | 37082595 | 9.350 | 9.438 |

File :C:\msdchem\1\data\2021\211124_TO3 ICAL\AIR04_112421014.D
Operator : GSG
Acquired : 24 Nov 2021 4:43 pm using AcqMethod TO3M.M
Instrument : AIR-GC04
Sample Name: ICAL,S14835,1x,10ppmv
Misc Info : I1 1x200mL Hx ONLY
Vial Number: 16



Signal: AIR04_112421014.D\FID1A.CH
ICAL,S14835,1x,10ppmv

| Peak # | Ret Time | Type | Width | Area | Start Time | End Time |
|---|---|---|---|---|---|---|
| 1 | 2.755 | BB | 0.033 | 749917280 | 2.678 | 2.825 |
| 2 | 2.884 | BB | 0.030 | 6187968364 | 2.835 | 2.985 |
| 3 | 3.239 | BB | 0.032 | 8438052058 | 3.192 | 3.355 |
| 4 | 4.158 | BB | 0.036 | 10719782910 | 4.088 | 4.285 |
| 5 | 5.486 | BB | 0.038 | 12934362358 | 5.385 | 5.562 |

Instr AIR-MS03
Date: 7/21/2021
Seq #: **210721_TO3**

| # | Sample ID | Data File | Injection Time | Comments |
|---|---|---|---|---|
| 1 | IB | Air04_112421001 | 11/24/2021 9:54 | |
| 2 | test CCV,10ppmv,CTD | Air04_112421002 | 11/24/2021 10:21 | |
| 3 | test CCV,10ppmv,CTD | Air04_112421003 | 11/24/2021 10:51 | |
| 4 | test CCV,10ppmv,CTD | Air04_112421004 | 11/24/2021 11:18 | |
| 5 | IB | Air04_112421005 | 11/24/2021 11:43 | |
| 6 | 454109-002,15x | Air04_112421006 | 11/24/2021 12:10 | |
| 7 | 454109-002,15x,150mL He | Air04_112421007 | 11/24/2021 12:50 | |
| 8 | IB | Air04_112421008 | 11/24/2021 13:47 | |
| 9 | ICAL,S16078,10X,0.025ppmv | Air04_112421009 | 11/24/2021 14:15 | |
| 10 | ICAL,S16078,2.5X,0.100ppmv | Air04_112421010 | 11/24/2021 14:43 | |
| 11 | ICAL,S16078,1X,0.250ppmv | Air04_112421011 | 11/24/2021 15:13 | |
| 12 | ICAL,S16186,1X,2.500ppmv | Air04_112421012 | 11/24/2021 15:43 | |
| 13 | ICAL,S16076,1X,25ppmv | Air04_112421013 | 11/24/2021 16:13 | |
| 14 | ICAL,S14835,1X,10ppmv | Air04_112421014 | 11/24/2021 16:43 | n-Hexane ONLY |
| 15 | IB | Air04_112421015 | 11/24/2021 17:09 | |
| 16 | IB | Air04_112421016 | 11/24/2021 17:36 | |
| 17 | ICV,S16187,1X,PDF:1,2.5ppmv | Air04_112421017 | 11/24/2021 18:06 | |
| 18 | BSD,S16187,1X,PDF:1,2.5ppmv | Air04_112421018 | 11/24/2021 18:35 | |
| 19 | IB | Air04_112421019 | 11/24/2021 19:06 | |
| 20 | BLK,QC957705,278783,1X,PDF:1 | Air04_112421020 | 11/24/2021 19:38 | |
| 21 | 453899-001,278783,S16078,10X,PDF:1 | Air04_112421021 | 11/24/2021 20:05 | MDL1,0.025ppbv |
| 22 | 453899-002,278783,S16078,10X,PDF:1 | Air04_112421022 | 11/24/2021 20:32 | MDL2,0.025ppbv |
| 23 | 453899-003,278783,S16078,10X,PDF:1 | Air04_112421023 | 11/24/2021 21:00 | MDL3,0.025ppbv |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421009.D
Acq On : 24 Nov 2021 2:15 pm
Operator : GSG
Sample : ICAL,S16078,10x,0.025ppmv
Misc : I1 1x20mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:03 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

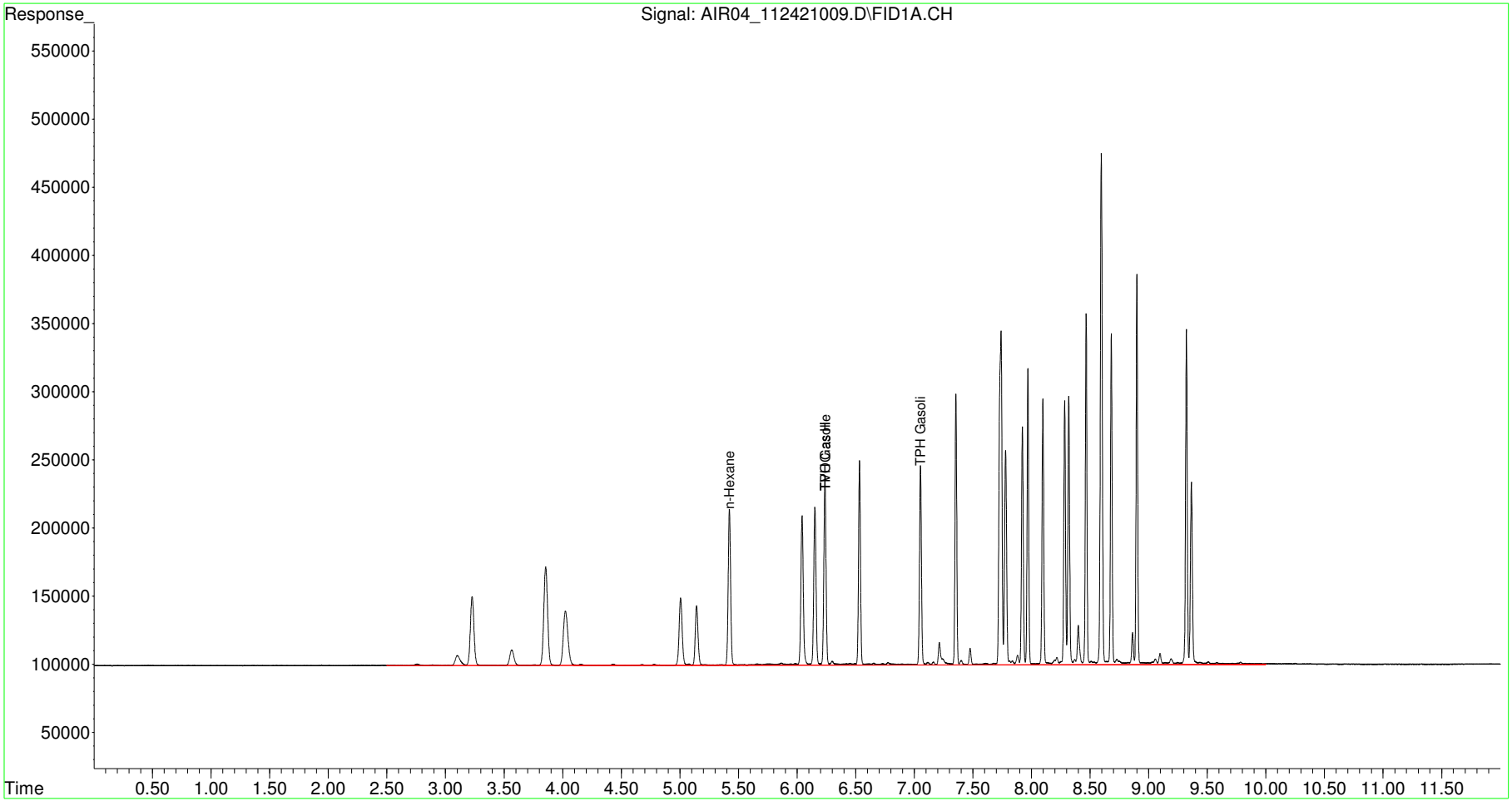
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 53211988 | 0.031 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 48688184 | 0.028 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 53211988 | 0.039 uL/L |
| 4) T | n-Hexane | 5.422 | 1650185 | 0.001 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421009.D
Acq On : 24 Nov 2021 2:15 pm
Operator : GSG
Sample : ICAL,S16078,10x,0.025ppmv
Misc : I1 1x20mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:03 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421010.D
Acq On : 24 Nov 2021 2:43 pm
Operator : GSG
Sample : ICAL,S16078,2.5x,0.100ppmv
Misc : I1 1x80mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:32 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

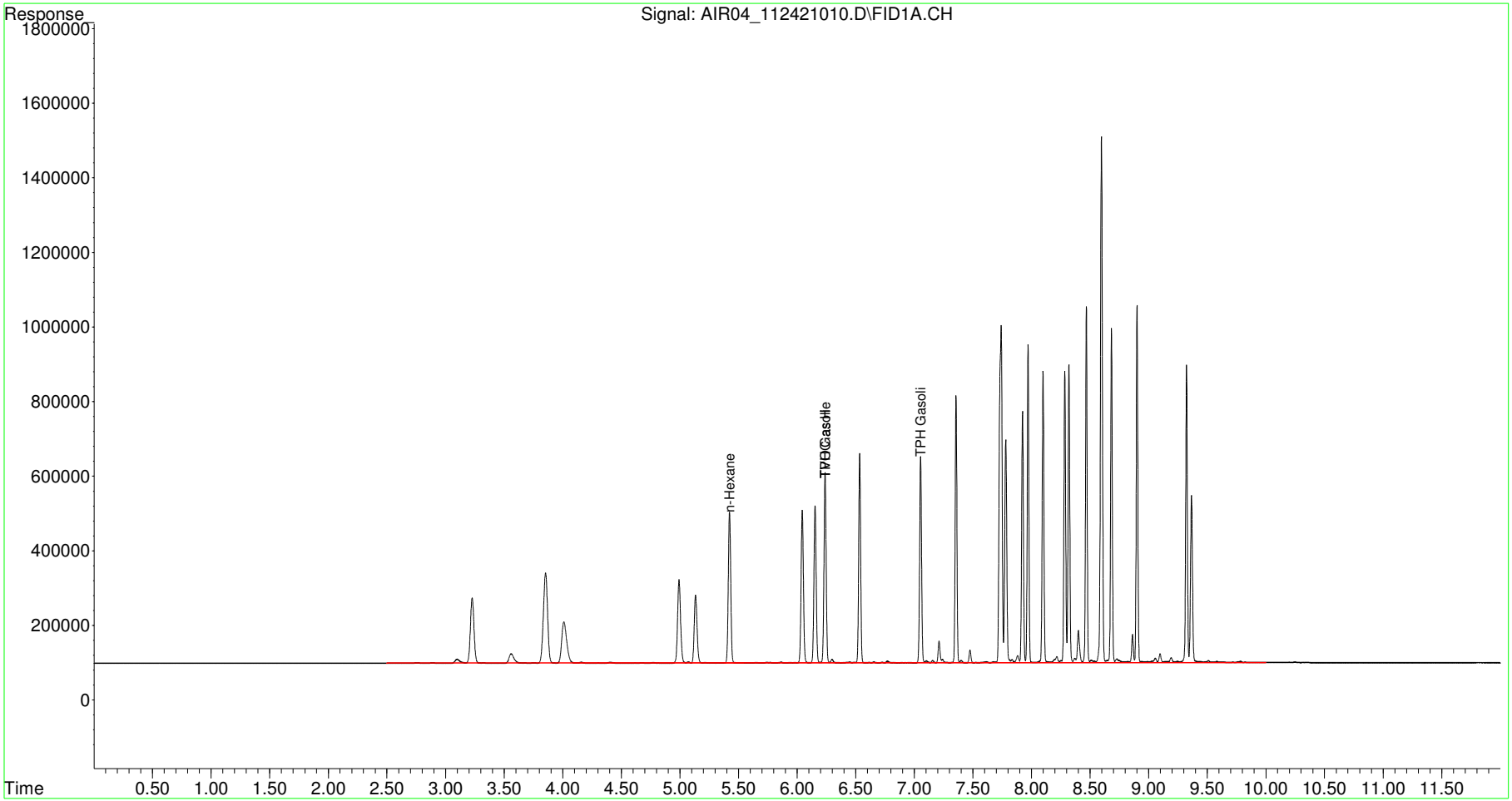
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 190148013 | 0.109 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 175846990 | 0.101 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 190148013 | 0.140 uL/L |
| 4) T | n-Hexane | 5.423 | 5880299 | 0.004 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421010.D
Acq On : 24 Nov 2021 2:43 pm
Operator : GSG
Sample : ICAL,S16078,2.5x,0.100ppmv
Misc : I1 1x80mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:32 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421011.D
Acq On : 24 Nov 2021 3:13 pm
Operator : GSG
Sample : ICAL,S16078,1x,0.250ppmv
Misc : I1 1x200mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:46 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

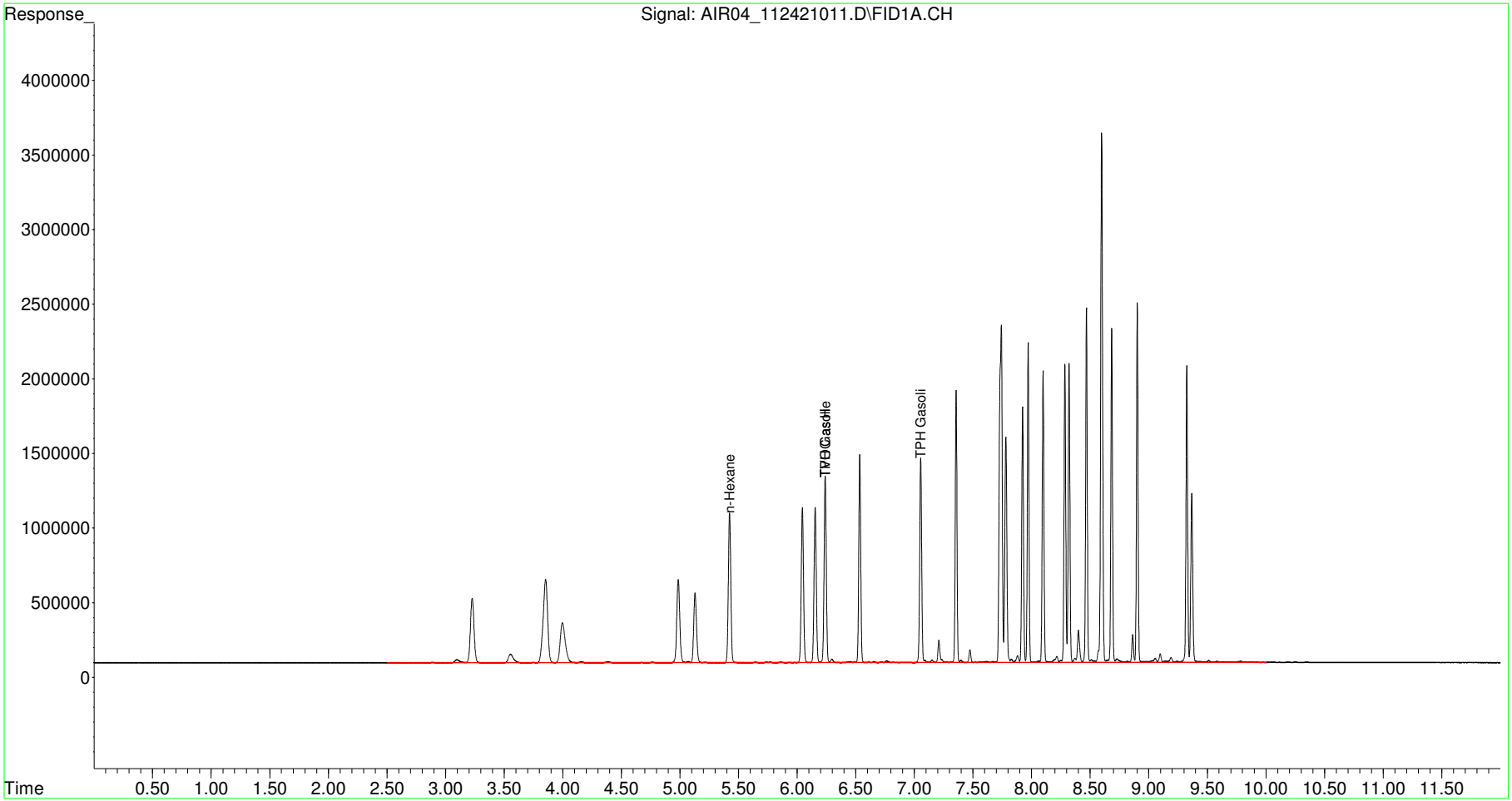
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 472389044 | 0.271 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 437682365 | 0.251 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 472389044 | 0.347 uL/L |
| 4) T | n-Hexane | 5.423 | 14472312 | 0.011 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421011.D
Acq On : 24 Nov 2021 3:13 pm
Operator : GSG
Sample : ICAL,S16078,1x,0.250ppmv
Misc : I1 1x200mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:46 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421012.D
Acq On : 24 Nov 2021 3:43 pm
Operator : GSG
Sample : ICAL,S16186,1x,2.5ppmv
Misc : I2 1x200mL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 14:37:01 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

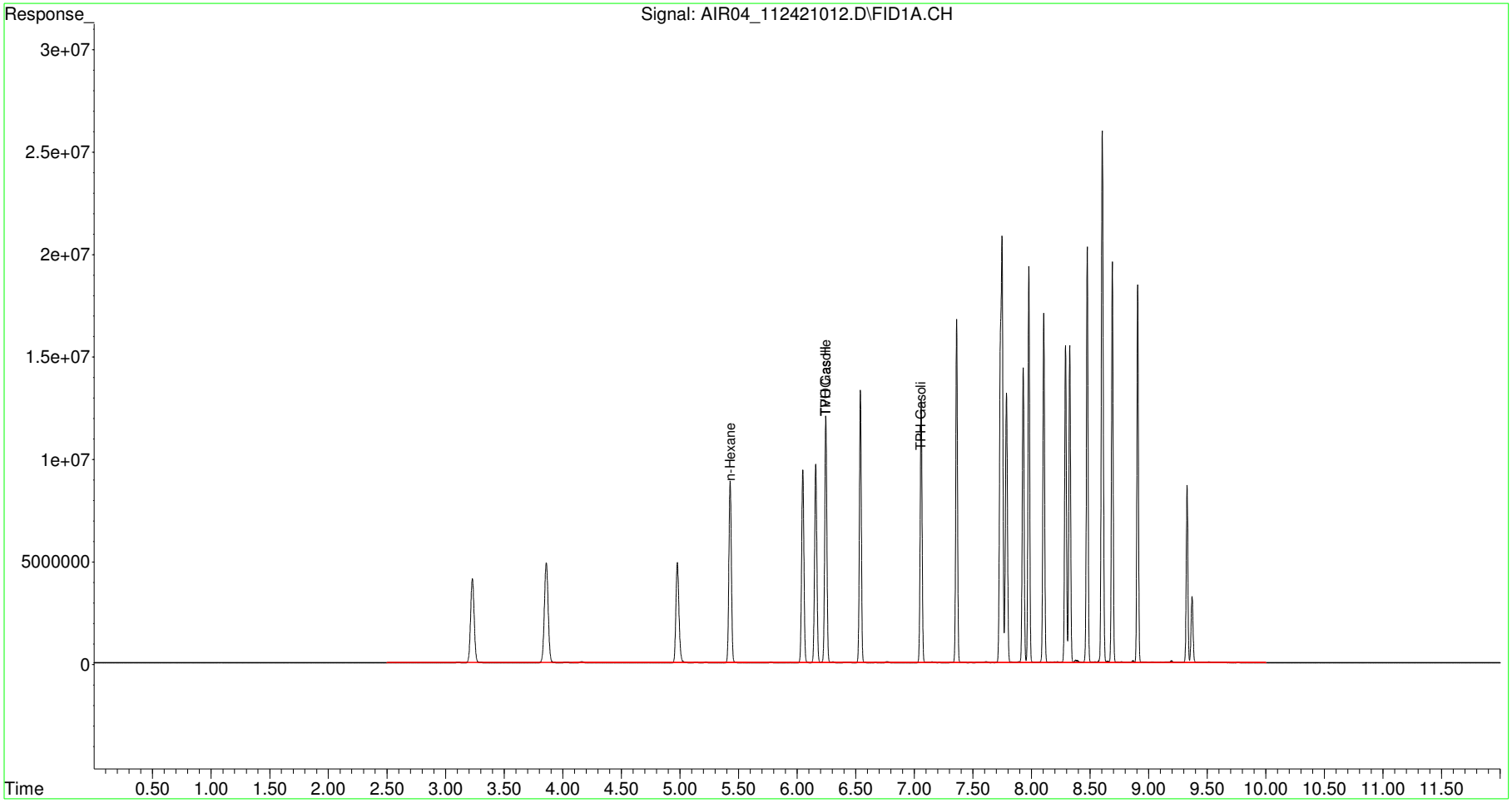
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 3651658404 | 2.097 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 3453423981 | 1.983 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 3651658404 | 2.682 uL/L |
| 4) T | n-Hexane | 5.429 | 130383417 | 0.096 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421012.D
Acq On : 24 Nov 2021 3:43 pm
Operator : GSG
Sample : ICAL,S16186,1x,2.5ppmv
Misc : I2 1x200mL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 14:37:01 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421013.D
Acq On : 24 Nov 2021 4:13 pm
Operator : GSG
Sample : ICAL,S16076,1x,25ppmv
Misc : I1 1x200mL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 12:06:19 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

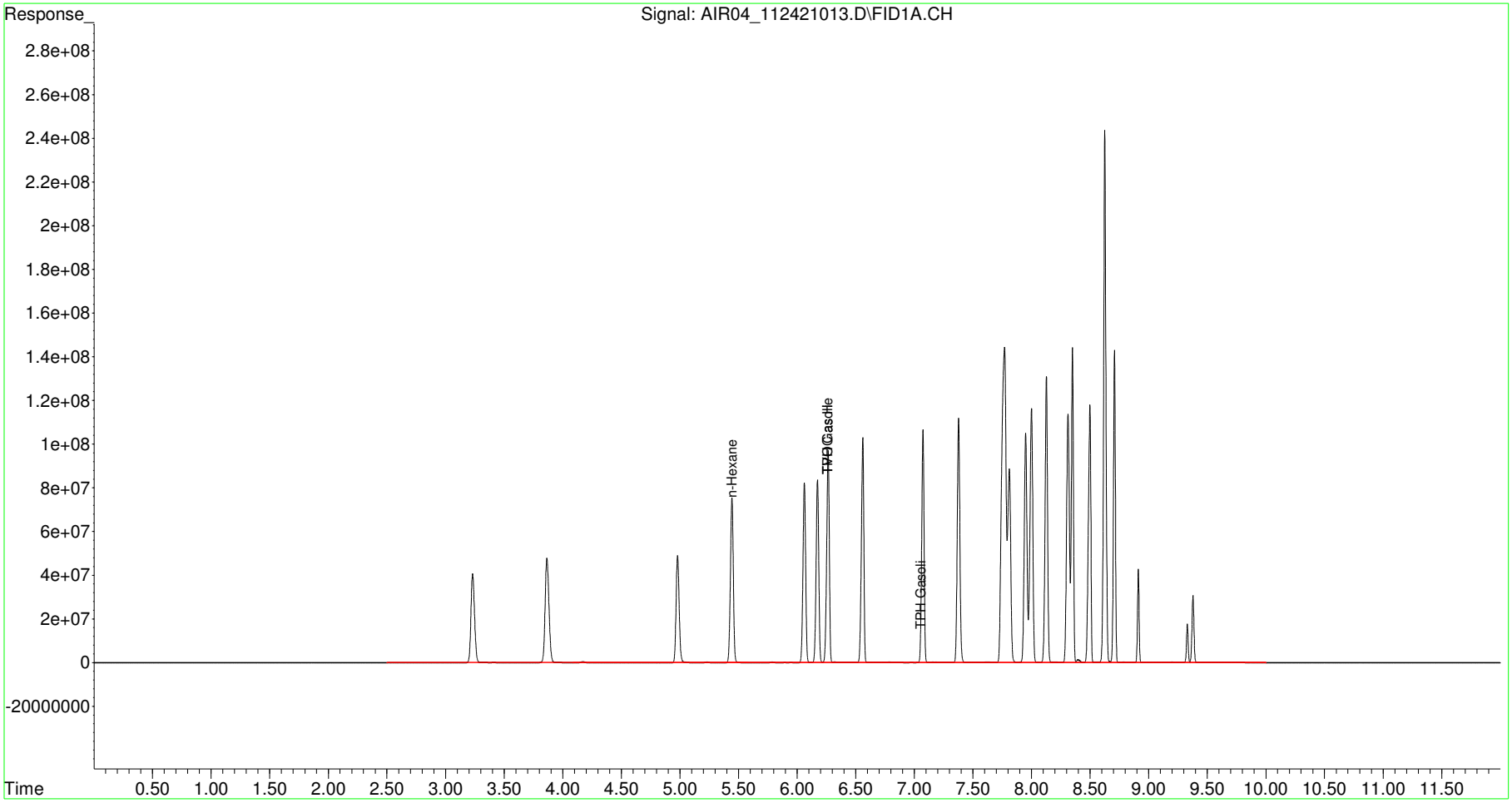
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 35217909706 | 20.227 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 33264953753 | 19.105 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 35217909706 | 25.866 uL/L |
| 4) T | n-Hexane | 5.444 | 1294299044 | 0.951 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421013.D
Acq On : 24 Nov 2021 4:13 pm
Operator : GSG
Sample : ICAL,S16076,1x,25ppmv
Misc : I1 1x200mL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 12:06:19 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421014.D
Acq On : 24 Nov 2021 4:43 pm
Operator : GSG
Sample : ICAL,S14835,1x,10ppmv
Misc : I1 1x200mL Hx ONLY
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 30 12:06:21 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

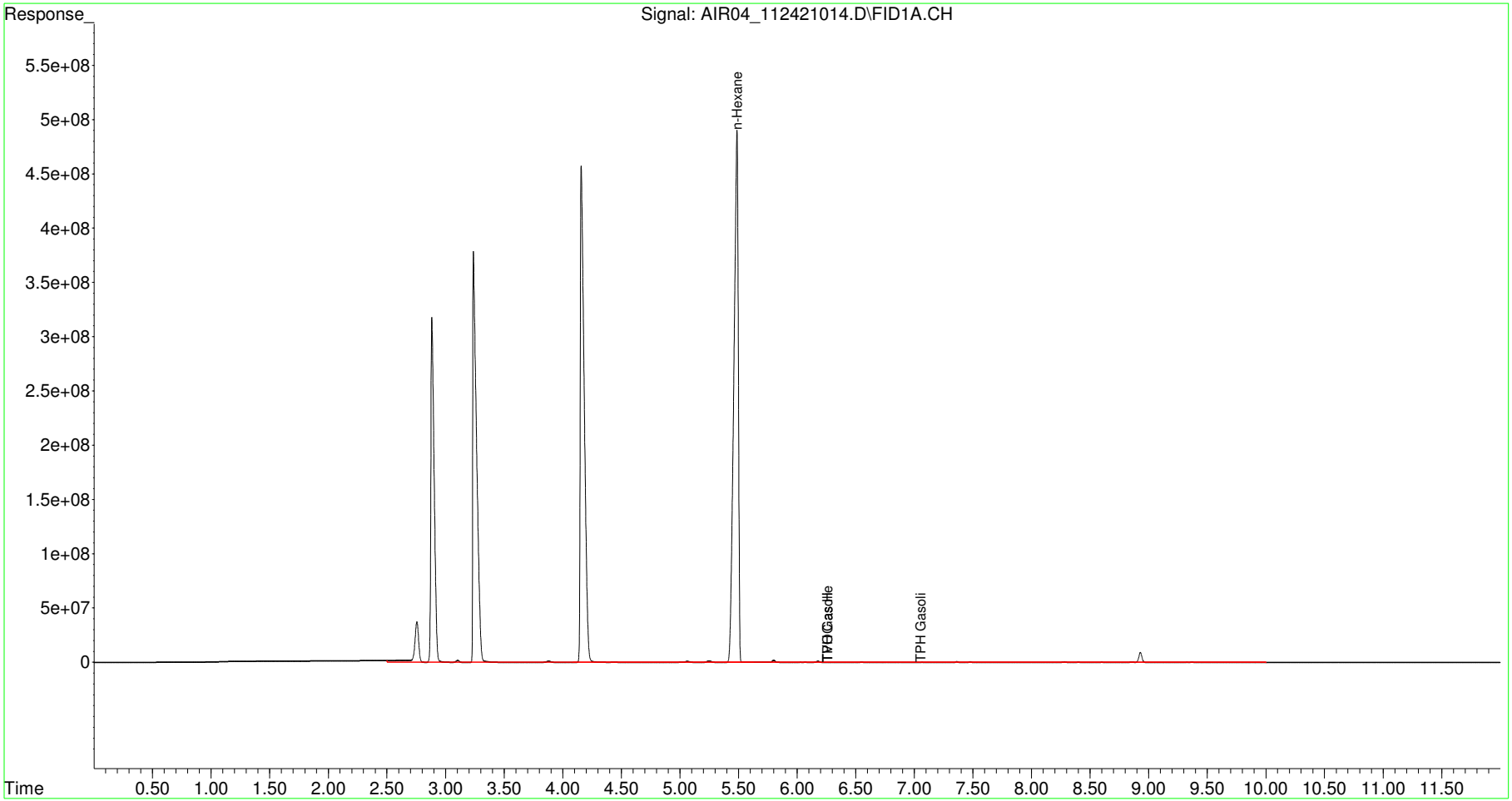
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 39961032976 | 22.951 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 24074465731 | 13.827 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 39961032976 | 29.349 uL/L |
| 4) T | n-Hexane | 5.486 | 12945335333 | 9.508 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421014.D
Acq On : 24 Nov 2021 4:43 pm
Operator : GSG
Sample : ICAL,S14835,1x,10ppmv
Misc : I1 1x200mL Hx ONLY
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 30 12:06:21 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421015.D
Acq On : 24 Nov 2021 5:09 pm
Operator : GSG
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 12:06:23 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

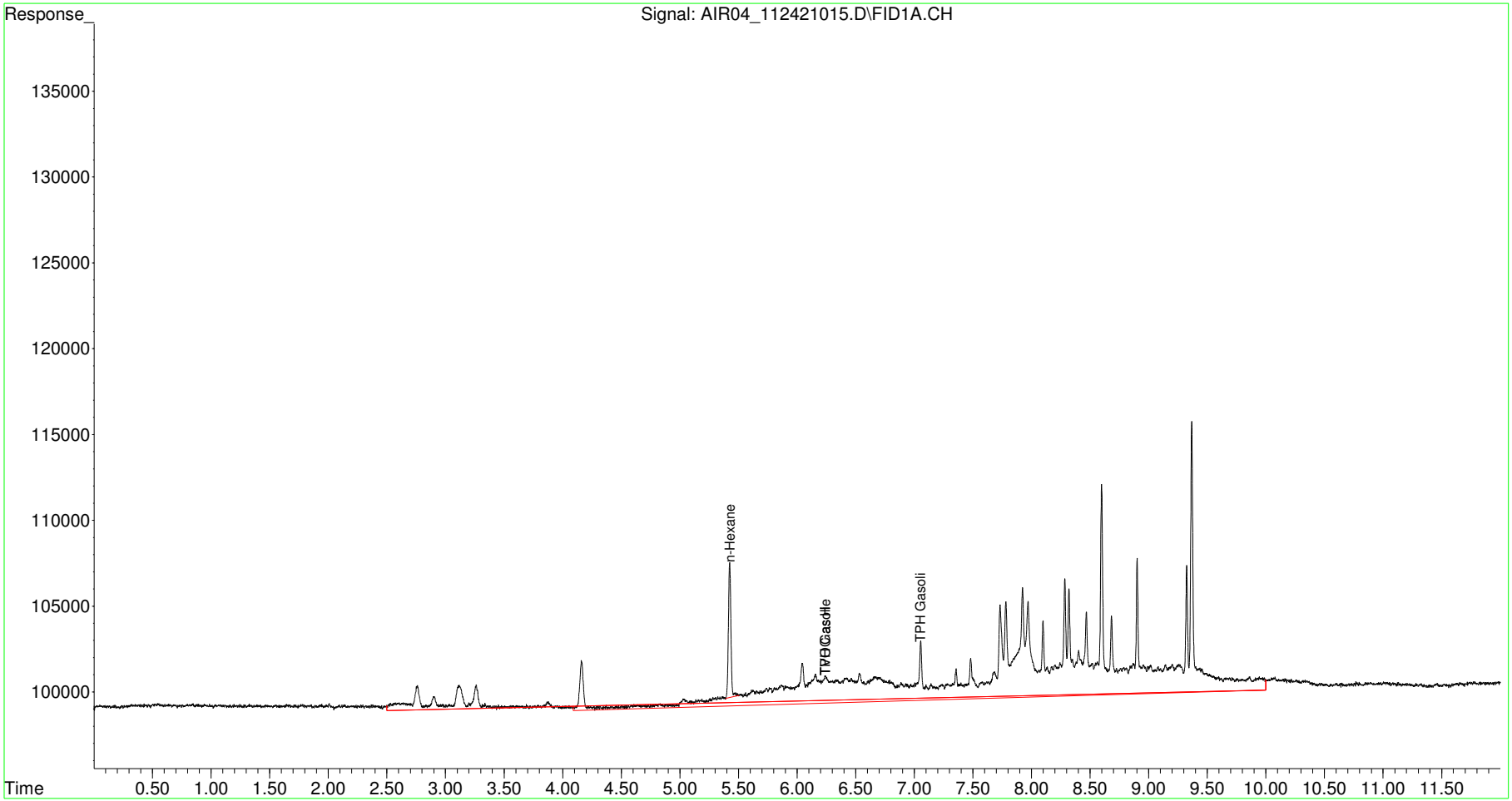
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 1950763 | 0.001 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 1835743 | 0.001 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 1950763 | 0.001 uL/L |
| 4) T | n-Hexane | 5.425 | 116656 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421015.D
Acq On : 24 Nov 2021 5:09 pm
Operator : GSG
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 12:06:23 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421016.D
Acq On : 24 Nov 2021 5:36 pm
Operator : GSG
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 12:06:25 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

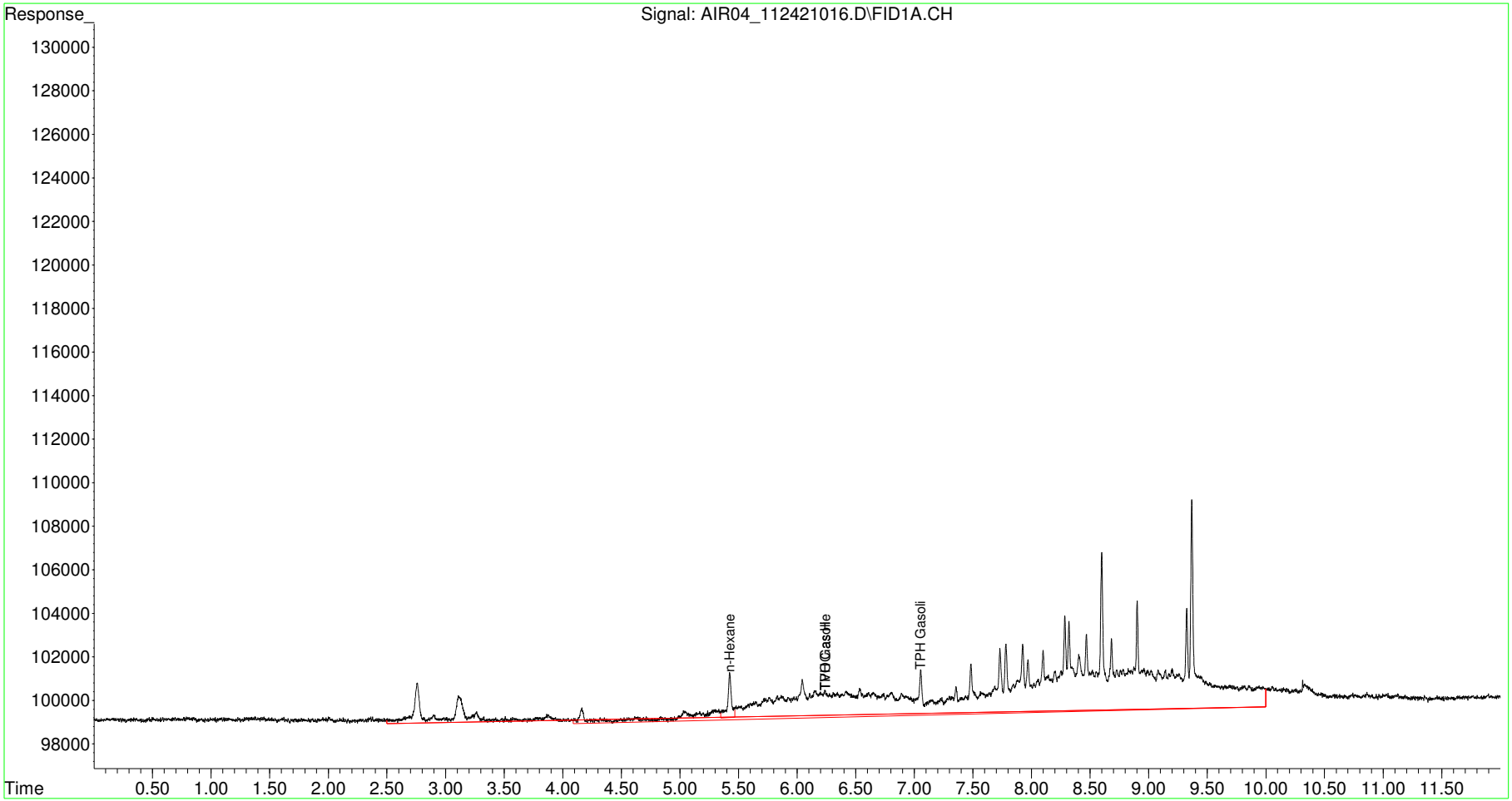
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 1306042 | 0.001 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 1219270 | 0.001 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 1306042 | 0.001 uL/L |
| 4) T | n-Hexane | 5.425 | 47647 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421016.D
Acq On : 24 Nov 2021 5:36 pm
Operator : GSG
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 12:06:25 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



# Initial and Continuing Calibration Verification Summary

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www.enthalpy.com/socal

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022001.D
Acq On : 20 Jan 2022 12:44 pm
Operator : LJB
Sample : CCV/BS,QC967565,282192,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:31:42 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(Min) |
|---|---|---|---|---|---|---|
| 1 H | TPH Gasoline | 1.741 | 1.631 E9 | 6.3 | 112 | 0.00 |
| 2 H | TPH Gasoline (C5-C12) | 1.741 | 1.549 E9 | 11.0 | 106 | 0.00 |
| 3 H | TVOC as Hexane | 1.362 | 40.787 E9 | -2894.6# | 3130# | 0.00 |
| 4 T | n-Hexane | 1.362 | 1.361 E9 | 0.1 | 104 | 0.00 |

Evaluate Continuing Calibration Report - Not Founds

---

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022013.D
Acq On : 20 Jan 2022 7:11 pm
Operator : LJB
Sample : CCV,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 12:35:38 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(Min) |
|---|---|---|---|---|---|---|
| 1 H | TPH Gasoline | 1.741 | 1.575 E9 | 9.5 | 108 | 0.00 |
| 2 H | TPH Gasoline (C5-C12) | 1.741 | 1.495 E9 | 14.1 | 103 | 0.00 |
| 3 H | TVOC as Hexane | 1.362 | 39.366 E9 | -2790.3# | 3021# | 0.00 |
| 4 T | n-Hexane | 1.362 | 1.307 E9 | 4.0 | 100 | 0.00 |

Evaluate Continuing Calibration Report - Not Founds

---

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421017.D
Acq On : 24 Nov 2021 6:06 pm
Operator : GSG
Sample : ICV,S16187,1x,PDF:1,2.5ppmv
Misc : I1 1x200mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 12:06:27 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(Min) |
|---|---|---|---|---|---|---|
| 1 H | TPH Gasoline | 1.741 | 1.666 E9 | 4.3 | 114 | 0.00 |
| 2 H | TPH Gasoline (C5-C12) | 1.741 | 1.585 E9 | 9.0 | 109 | 0.00 |
| 3 H | TVOC as Hexane | 1.362 | 41.649 E9 | -2957.9# | 3196# | 0.00 |
| 4 T | n-Hexane | 1.362 | 1.324 E9 | 2.8 | 102 | 0.00 |

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

# Instrument Run Logs

Instr AIR-MS03
Date: 7/21/2021
Seq #: **210721_TO3**

| # | Sample ID | Data File | Injection Time | Comments |
|---|---|---|---|---|
| 1 | IB | Air04_112421001 | 11/24/2021 9:54 | |
| 2 | test CCV,10ppmv,CTD | Air04_112421002 | 11/24/2021 10:21 | |
| 3 | test CCV,10ppmv,CTD | Air04_112421003 | 11/24/2021 10:51 | |
| 4 | test CCV,10ppmv,CTD | Air04_112421004 | 11/24/2021 11:18 | |
| 5 | IB | Air04_112421005 | 11/24/2021 11:43 | |
| 6 | 454109-002,15x | Air04_112421006 | 11/24/2021 12:10 | |
| 7 | 454109-002,15x,150mL He | Air04_112421007 | 11/24/2021 12:50 | |
| 8 | IB | Air04_112421008 | 11/24/2021 13:47 | |
| 9 | ICAL,S16078,10X,0.025ppmv | Air04_112421009 | 11/24/2021 14:15 | |
| 10 | ICAL,S16078,2.5X,0.100ppmv | Air04_112421010 | 11/24/2021 14:43 | |
| 11 | ICAL,S16078,1X,0.250ppmv | Air04_112421011 | 11/24/2021 15:13 | |
| 12 | ICAL,S16186,1X,2.500ppmv | Air04_112421012 | 11/24/2021 15:43 | |
| 13 | ICAL,S16076,1X,25ppmv | Air04_112421013 | 11/24/2021 16:13 | |
| 14 | ICAL,S14835,1X,10ppmv | Air04_112421014 | 11/24/2021 16:43 | n-Hexane ONLY |
| 15 | IB | Air04_112421015 | 11/24/2021 17:09 | |
| 16 | IB | Air04_112421016 | 11/24/2021 17:36 | |
| 17 | ICV,S16187,1X,PDF:1,2.5ppmv | Air04_112421017 | 11/24/2021 18:06 | |
| 18 | BSD,S16187,1X,PDF:1,2.5ppmv | Air04_112421018 | 11/24/2021 18:35 | |
| 19 | IB | Air04_112421019 | 11/24/2021 19:06 | |
| 20 | BLK,QC957705,278783,1X,PDF:1 | Air04_112421020 | 11/24/2021 19:38 | |
| 21 | 453899-001,278783,S16078,10X,PDF:1 | Air04_112421021 | 11/24/2021 20:05 | MDL1,0.025ppbv |
| 22 | 453899-002,278783,S16078,10X,PDF:1 | Air04_112421022 | 11/24/2021 20:32 | MDL2,0.025ppbv |
| 23 | 453899-003,278783,S16078,10X,PDF:1 | Air04_112421023 | 11/24/2021 21:00 | MDL3,0.025ppbv |

Instr AIR-GC04
Date: 1/20/2022
Seq #: **220120_TO3**

| # | Sample ID | Data File | Injection Time | Comments |
|---|---|---|---|---|
| 1 | CCV/BS,QC967565,282192,S16186,1x,PDF:1 | Air04_012022001 | 1/20/2022 12:44 | |
| 2 | BSD,QC967566,282192,S16186,1x,PDF:1 | Air04_012022002 | 1/20/2022 13:14 | |
| 3 | IB | Air04_012022003 | 1/20/2022 13:41 | NR,IB |
| 4 | BLANK,QC967567,282192,1x,PDF:1 | Air04_012022004 | 1/20/2022 14:12 | |
| 5 | 456991-001,282192,2x,PDF:1 | Air04_012022005 | 1/20/2022 14:50 | |
| 6 | 456991-002,282192,2x,PDF:1 | Air04_012022006 | 1/20/2022 15:19 | |
| 7 | 456991-003,282192,2x,PDF:2 | Air04_012022007 | 1/20/2022 15:49 | |
| 8 | 456991-004,282192,2x,PDF:2 | Air04_012022008 | 1/20/2022 16:18 | |
| 9 | 456991-005,282192,2x,PDF:3 | Air04_012022009 | 1/20/2022 16:47 | |
| 10 | 456991-006,282192,2x,PDF:3 | Air04_012022010 | 1/20/2022 17:17 | |
| 11 | 456991-007,282192,2x,PDF:4 | Air04_012022011 | 1/20/2022 17:47 | |
| 12 | 456991-008,282192,2x,PDF:4 | Air04_012022012 | 1/20/2022 18:16 | |
| 13 | CCV,S16186,1x,PDF:1 | Air04_012022013 | 1/20/2022 19:11 | |

# Sample Prep Logs

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# Pressurization Logbook

| Sample ID | Initial Pressure (mm Hg) | Final Pressure (mm Hg) | Canister Volume (L) | Dilution Factor | Analyst Initials | Date | Comments |
|---|---|---|---|---|---|---|---|
| 456895-007 | 719.7 | 1079.6 | 1.4L | 1.5x | LB | 1/19/22 | C10757 |
| -008 | 668.4 | 1002.6 | ↓ | ↓ | ↓ | ↓ | C10762 |
| -009 | 698.6 | 1047.9 | | | | | C10737 |
| -010 | 611.8 | 917.7 | | | | | C10628 |
| -011 | 636.1 | 954.2 | | | | | C10824 |
| -012 | 666.0 | 999.0 | | | | | C10846 |
| -013 | 698.9 | 1048.4 | | | | | C10560 |
| -014 | 715.9 | 1073.9 | | | | | C10583 |
| -015 | 646.6 | 969.9 | | | | | C10601 |
| -016 | 645.8 | 968.7 | | | | | C10569 |
| 456772-021 | 623.0 | NA | 6L | NA | DL | 1/19/22 | C70129 |
| -022 | 669.3 | | | | | | 090 |
| -023 | 713.0 | | | | | | 098 |
| -024 | 681.6 | | | | | | 156 |
| -025 | 689.5 | | | | | | 101 |
| -026 | 742.2 | | | | | | 133 |
| -027 | 671.7 | | | | | | 132 |
| -028 | 652.2 | | | | | | 183 |
| 456991-001 | 613.4 | 1226.8 | 1.4L | 2x | LB | 1/20/22 | C10699 |
| -002 | 623.9 | 1247.8 | | | | | C10625 |
| -003 | 621.8 | 1243.6 | | | | | C10280 |
| -004 | 623.0 | 1246.0 | | | | | C10557 |
| -005 | 620.0 | 1240.0 | | | | | C10759 |
| -006 | 629.7 | 1259.4 | | | | | C10630 |
| -007 | 549.4 | 1098.8 | | | | | C10549 |
| -008 | 658.8 | 1317.6 | | | | | C10582 |
| 456772-029 | 754.2 | NA | 6L | NA | DL | | C70202 |
| -030 | 659.2 | NA | | NA | | | 115 |
| -031 | 683.4 | | | | | | 106 |
| -032 | 641.8 | | | | | | 110 |
| 457062-001 | 665.9 | | | | LB | | C70064 |
| 457063-001 | 645.0 | | | | | | C70026 |
| -002 | 684.4 | | | | | | C70256 |
| -003 | 672.1 | | | | | | C70264 |
| -004 | 649.2 | | | | | | C70281 |
| 456872-001 | 811.1 | 1135.5 | 1.4L | 1.4X | CD | 01/21/22 | (2X)(1.4) = 2.8x (total) |
| 457112-001 | 641.3 | 1292.6 | | 2X | | | C10341 |
| -002 | 618.7 | 1237.4 | | | | | 266 |
| -003 | 648.3 | 1296.6 | | | | | 445 |
| -004 | 630.8 | 1261.6 | | | | | 254 |
| -005 | 629.2 | 1258.4 | | | | | 235 |
| -006 | 629.7 | 1259.4 | | | | | 396 |

# Raw Data

## Samples

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022005.D
Acq On : 20 Jan 2022 2:50 pm
Operator : LJB
Sample : 456991-001,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 2 Sample Multiplier: 2

Quant Time: Feb 21 12:33:19 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

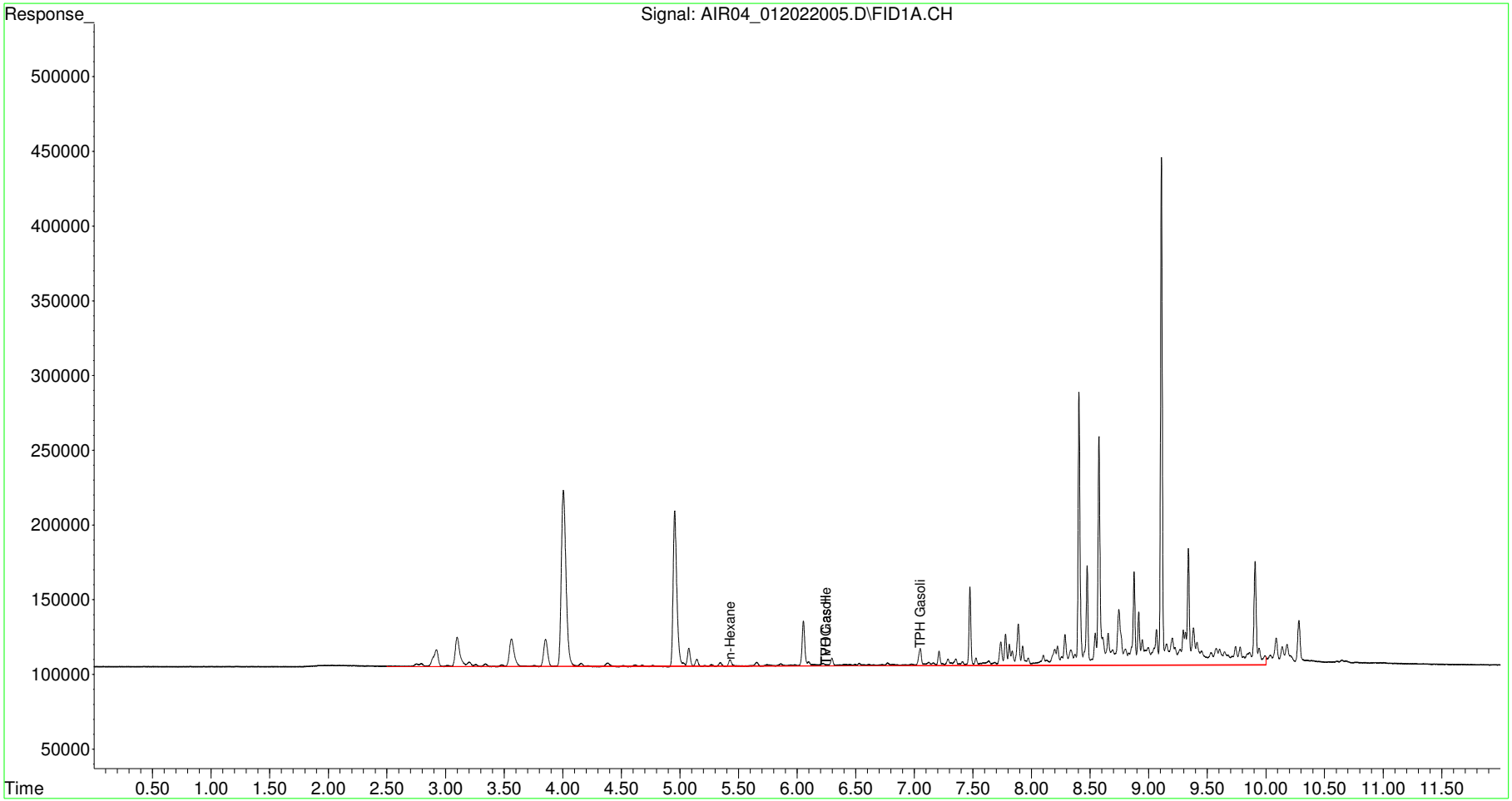
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 32029378 | 0.037 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 26521130 | 0.030 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 32029378 | 0.047 uL/L |
| 4) T | n-Hexane | 5.427 | 97622 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022005.D
Acq On : 20 Jan 2022 2:50 pm
Operator : LJB
Sample : 456991-001,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 2 Sample Multiplier: 2

Quant Time: Feb 21 12:33:19 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022006.D
Acq On : 20 Jan 2022 3:19 pm
Operator : LJB
Sample : 456991-002,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 3 Sample Multiplier: 2

Quant Time: Feb 21 12:33:45 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

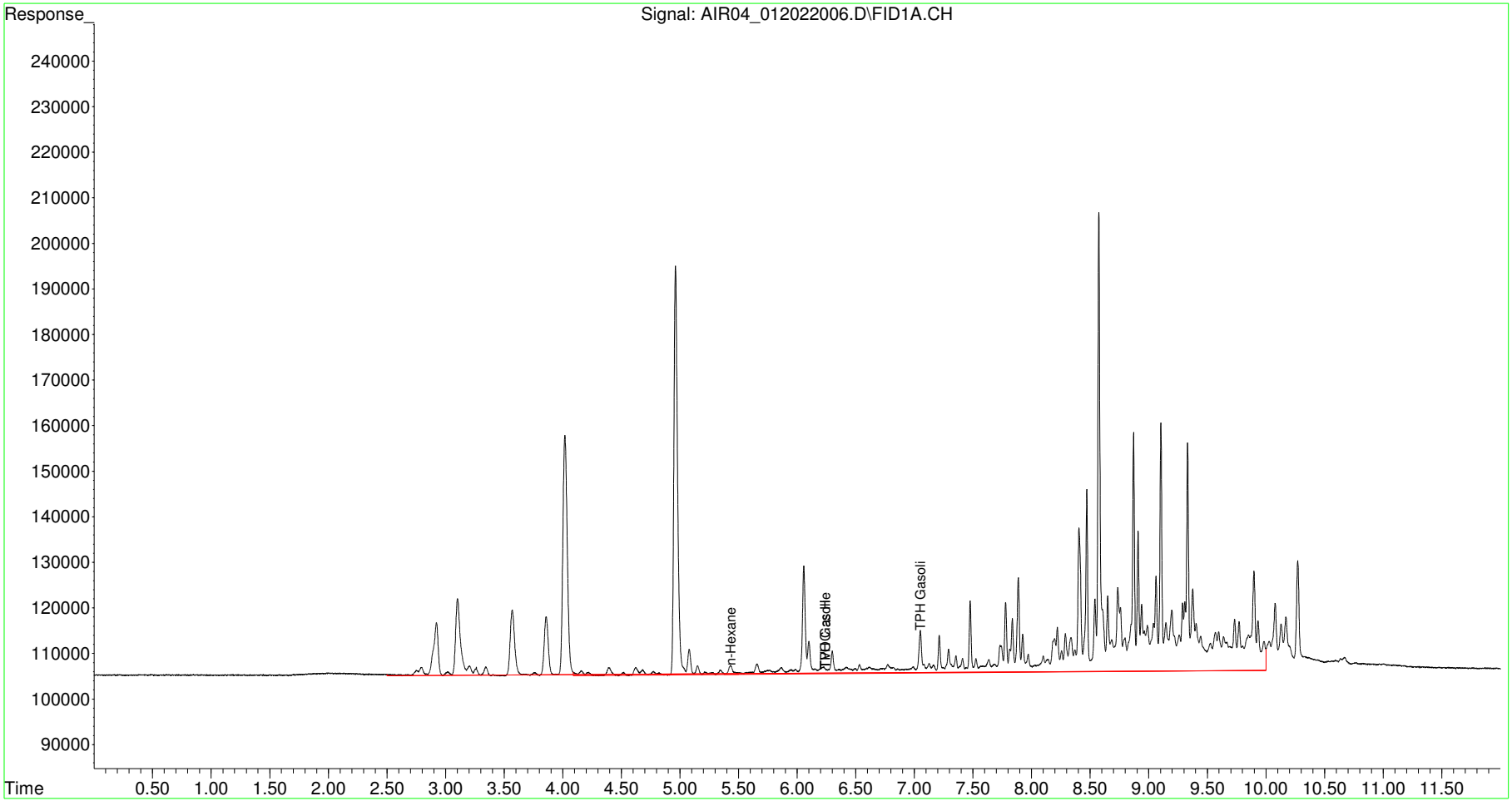
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 20292519 | 0.023 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 17107126 | 0.020 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 20292519 | 0.030 uL/L |
| 4) T | n-Hexane | 5.431 | 53205 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022006.D
Acq On : 20 Jan 2022 3:19 pm
Operator : LJB
Sample : 456991-002,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 3 Sample Multiplier: 2

Quant Time: Feb 21 12:33:45 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022007.D
Acq On : 20 Jan 2022 3:49 pm
Operator : LJB
Sample : 456991-003,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 4 Sample Multiplier: 2

Quant Time: Jan 21 14:42:48 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

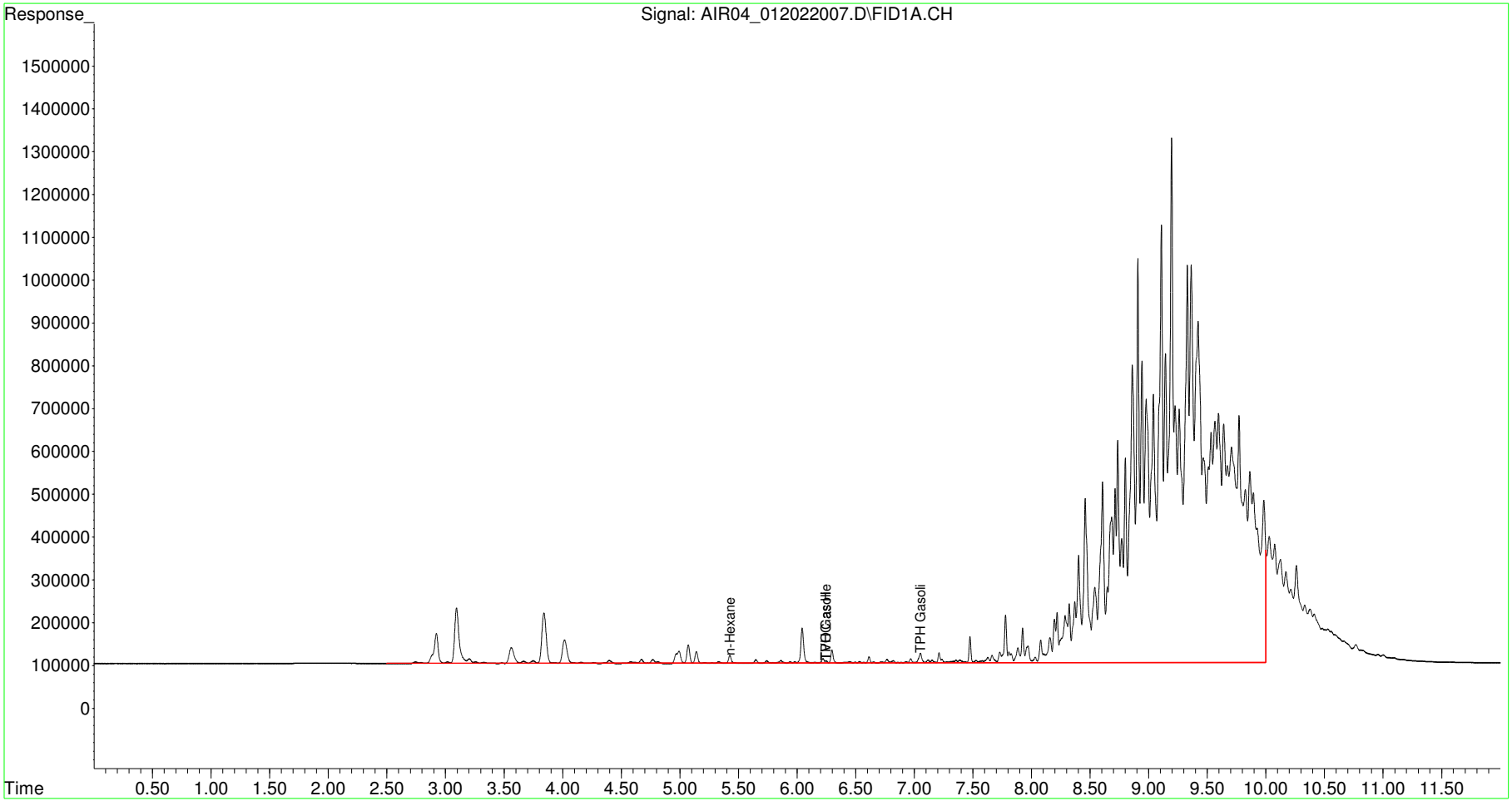
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 463306698 | 0.532 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 451296255 | 0.518 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 463306698 | 0.681 uL/L |
| 4) T | n-Hexane | 5.426 | 309407 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022007.D
Acq On : 20 Jan 2022 3:49 pm
Operator : LJB
Sample : 456991-003,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 4 Sample Multiplier: 2

Quant Time: Jan 21 14:42:48 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022007.D
Acq On : 20 Jan 2022 3:49 pm
Operator : LJB
Sample : 456991-003,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 4 Sample Multiplier: 2

Quant Time: Jan 21 14:42:48 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

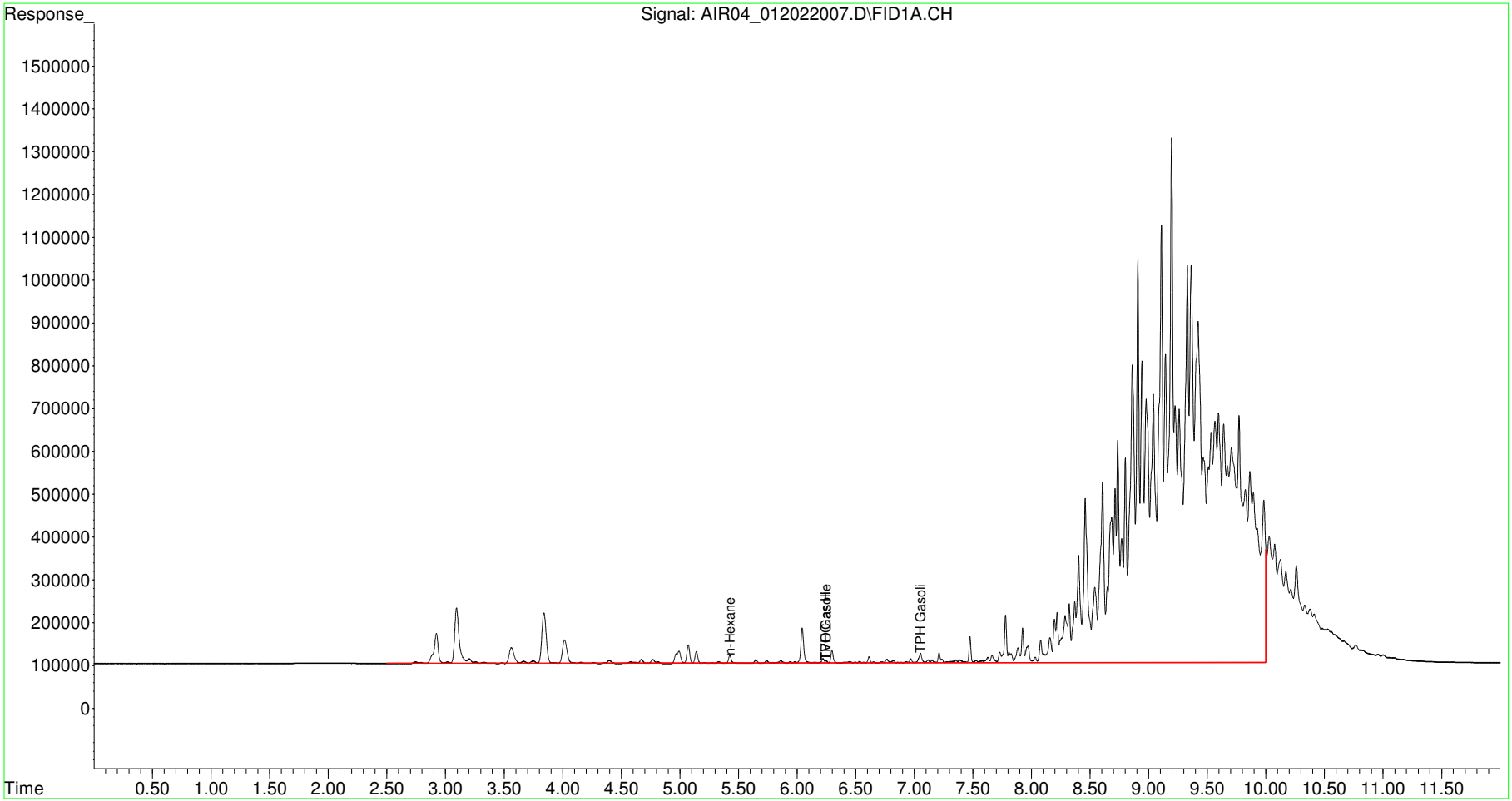
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 463306698 | 0.532 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 451296255 | 0.518 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 463306698 | 0.681 uL/L |
| 4) T | n-Hexane | 5.426 | 309407 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022007.D
Acq On : 20 Jan 2022 3:49 pm
Operator : LJB
Sample : 456991-003,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 4 Sample Multiplier: 2

Quant Time: Jan 21 14:42:48 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022008.D
Acq On : 20 Jan 2022 4:18 pm
Operator : LJB
Sample : 456991-004,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 5 Sample Multiplier: 2

Quant Time: Feb 21 12:34:18 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

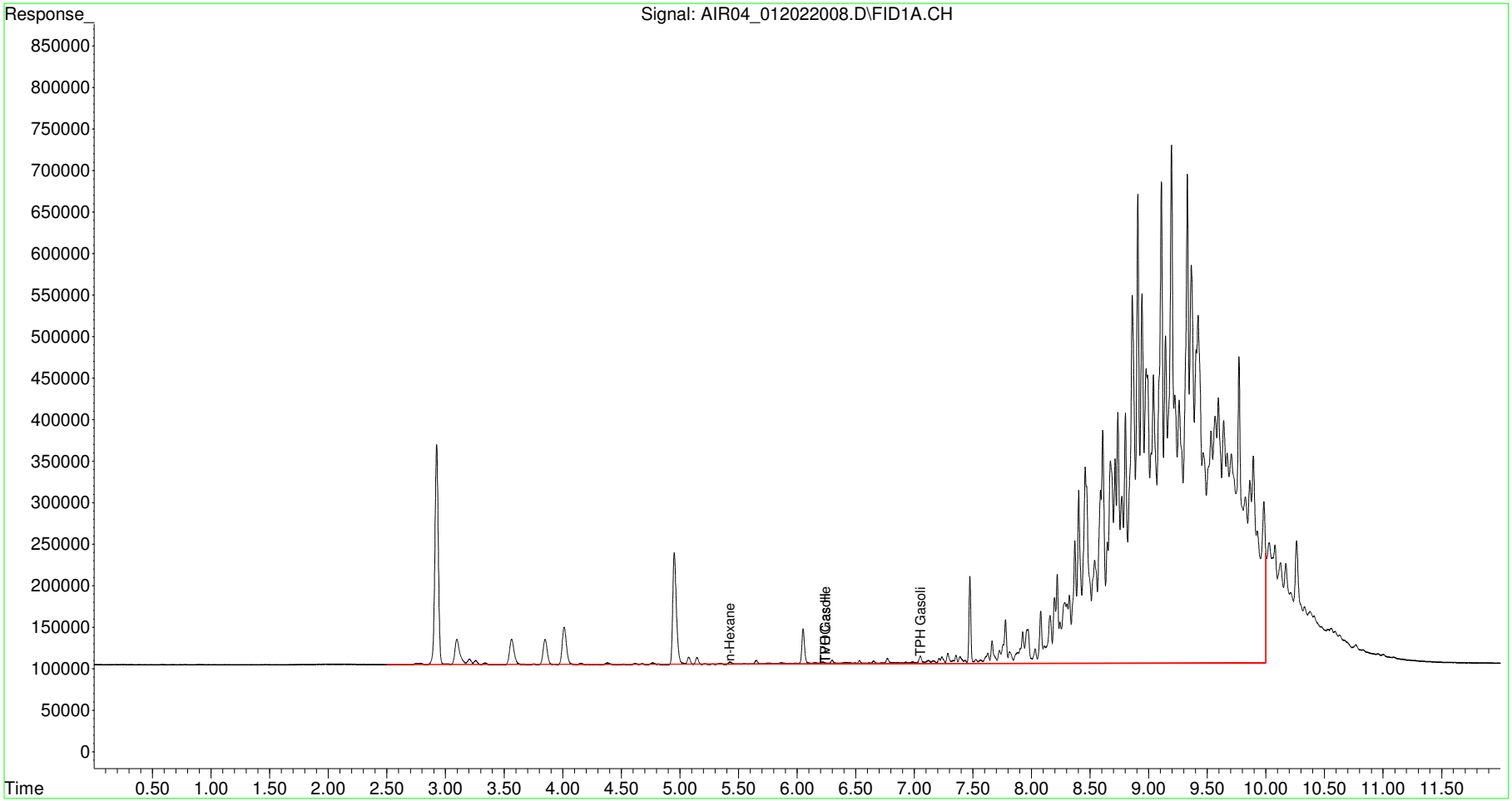
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 280269342 | 0.322 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 270823719 | 0.311 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 280269342 | 0.412 uL/L |
| 4) T | n-Hexane | 5.427 | 87482 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022008.D
Acq On : 20 Jan 2022 4:18 pm
Operator : LJB
Sample : 456991-004,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 5 Sample Multiplier: 2

Quant Time: Feb 21 12:34:18 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022009.D
Acq On : 20 Jan 2022 4:47 pm
Operator : LJB
Sample : 456991-005,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 6 Sample Multiplier: 2

Quant Time: Feb 21 12:34:34 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

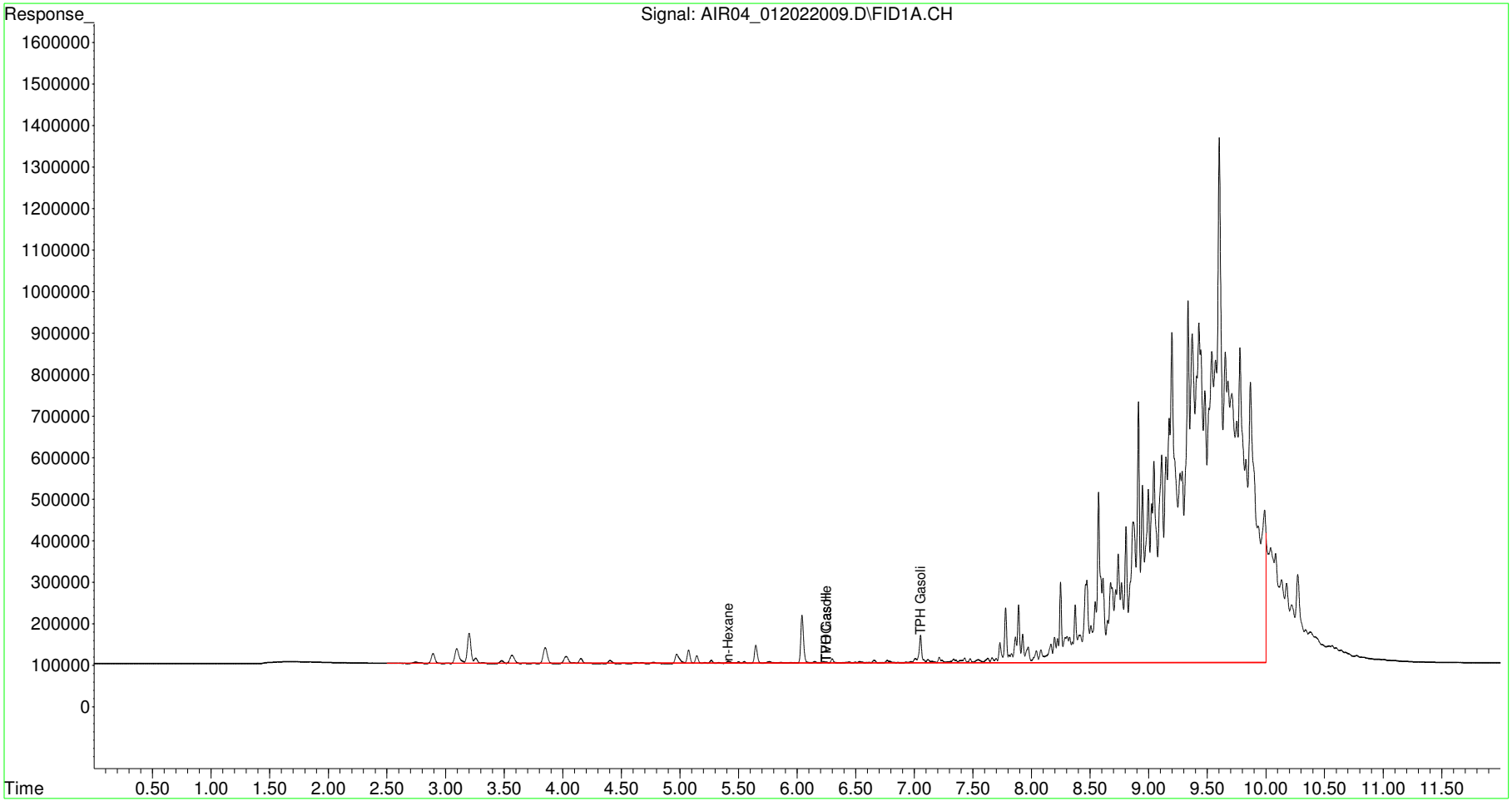
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 439760527 | 0.505 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 434121715 | 0.499 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 439760527 | 0.646 uL/L |
| 4) T | n-Hexane | 5.414 | 154523 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022009.D
Acq On : 20 Jan 2022 4:47 pm
Operator : LJB
Sample : 456991-005,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 6 Sample Multiplier: 2

Quant Time: Feb 21 12:34:34 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022010.D
Acq On : 20 Jan 2022 5:17 pm
Operator : LJB
Sample : 456991-006,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 7 Sample Multiplier: 2

Quant Time: Feb 21 12:34:49 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

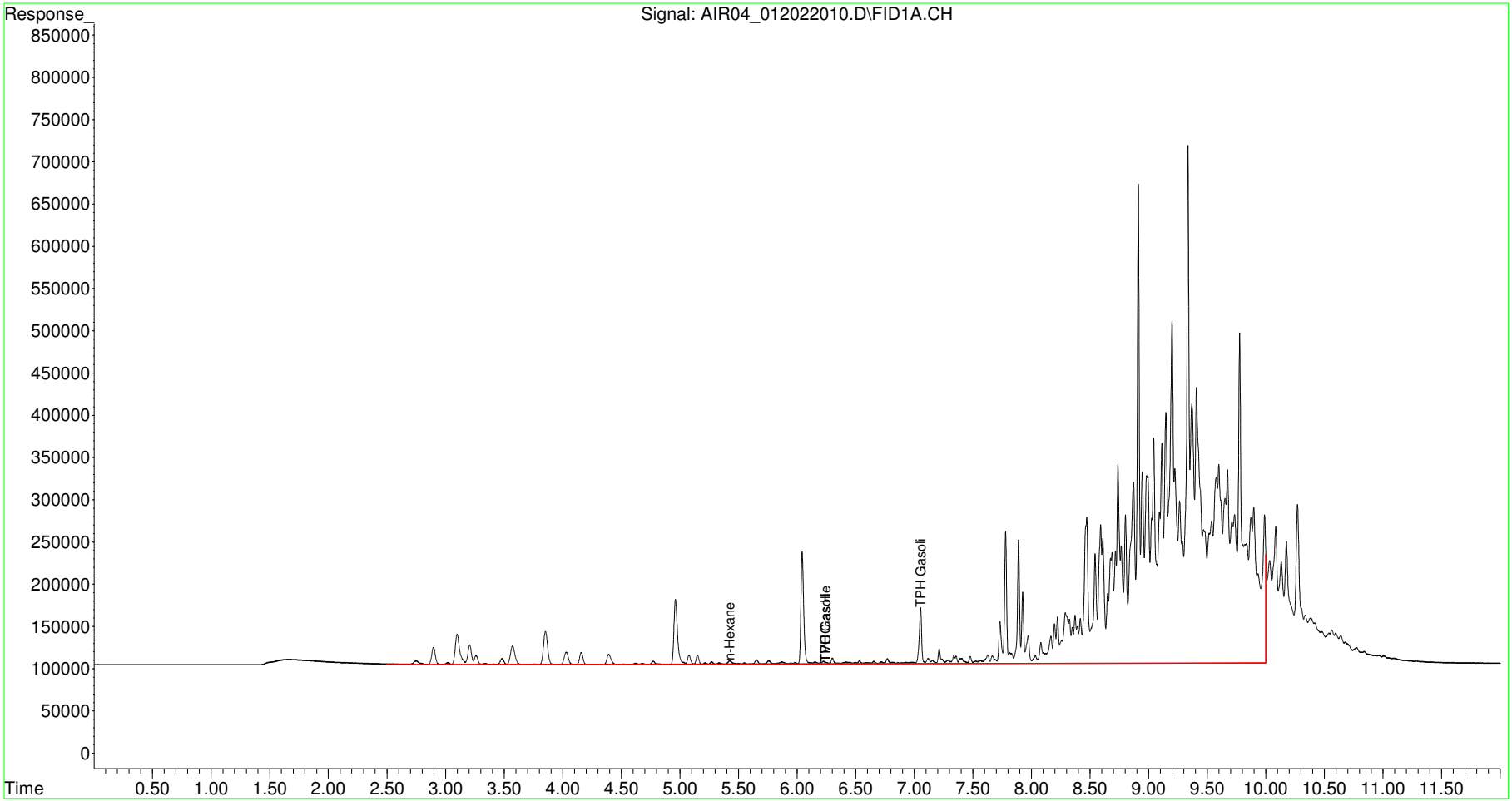
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 189671715 | 0.218 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 185080046 | 0.213 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 189671715 | 0.279 uL/L |
| 4) T | n-Hexane | 5.425 | 134546 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022010.D
Acq On : 20 Jan 2022 5:17 pm
Operator : LJB
Sample : 456991-006,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 7 Sample Multiplier: 2

Quant Time: Feb 21 12:34:49 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022011.D
Acq On : 20 Jan 2022 5:47 pm
Operator : LJB
Sample : 456991-007,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 8 Sample Multiplier: 2

Quant Time: Feb 21 12:35:07 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

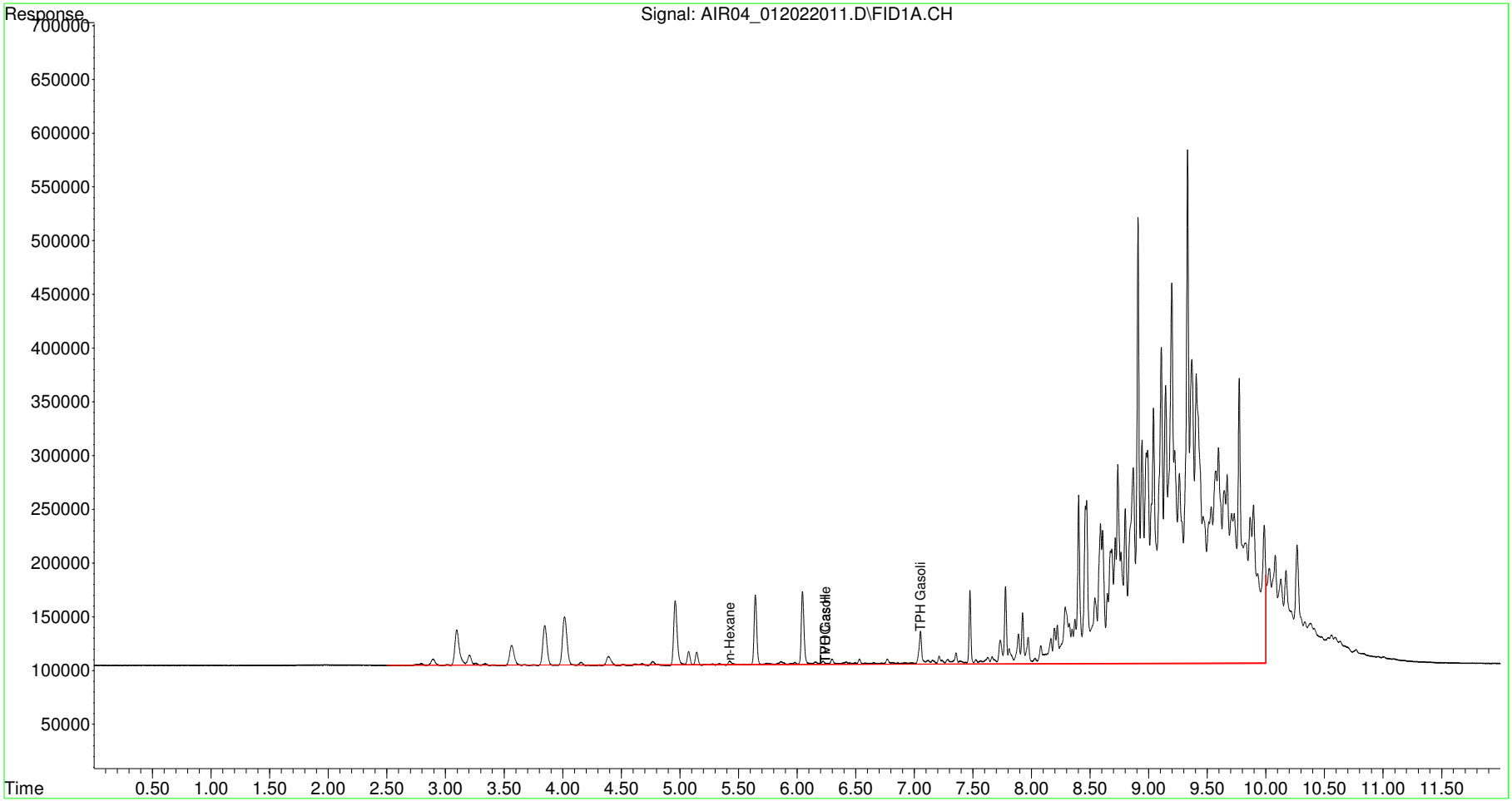
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 157320777 | 0.181 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 153276756 | 0.176 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 157320777 | 0.231 uL/L |
| 4) T | n-Hexane | 5.426 | 95213 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022011.D
Acq On : 20 Jan 2022 5:47 pm
Operator : LJB
Sample : 456991-007,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 8 Sample Multiplier: 2

Quant Time: Feb 21 12:35:07 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022012.D
Acq On : 20 Jan 2022 6:16 pm
Operator : LJB
Sample : 456991-008,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 9 Sample Multiplier: 2

Quant Time: Feb 21 12:35:22 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

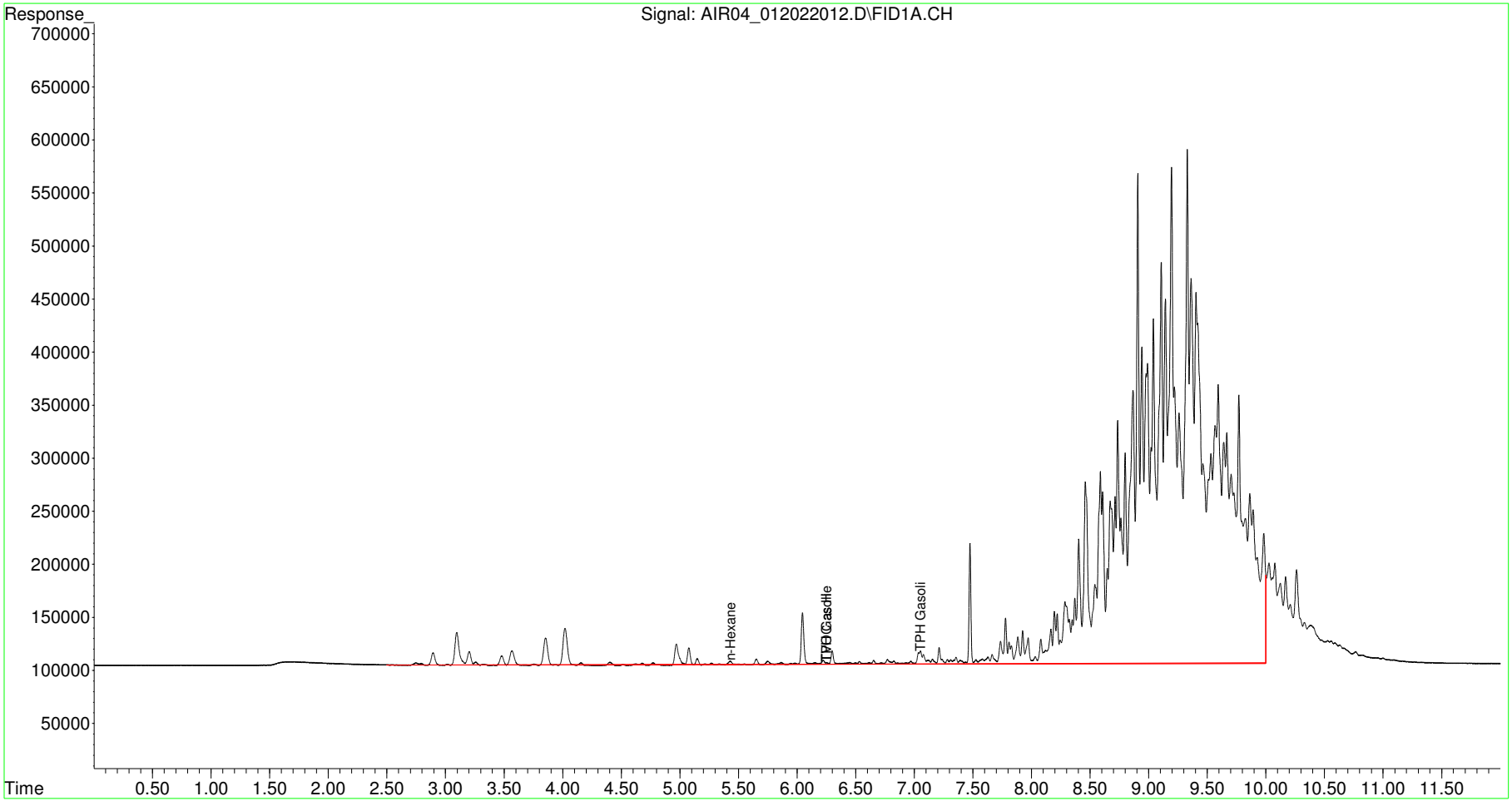
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 196733916 | 0.226 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 193080090 | 0.222 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 196733916 | 0.289 uL/L |
| 4) T | n-Hexane | 5.429 | 98038 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022012.D
Acq On : 20 Jan 2022 6:16 pm
Operator : LJB
Sample : 456991-008,282192,2x,PDF:1
Misc : I1 2x200mL
ALS Vial : 9 Sample Multiplier: 2

Quant Time: Feb 21 12:35:22 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



# Raw Data

## Batch Quality Control

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
931 W. Barkley Ave., Orange, CA 92868 • T: (714) 771-6900 • F: (714) 531-1209
www.enthalpy.com/socal

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022001.D
Acq On : 20 Jan 2022 12:44 pm
Operator : LJB
Sample : CCV/BS,QC967565,282192,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:31:42 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

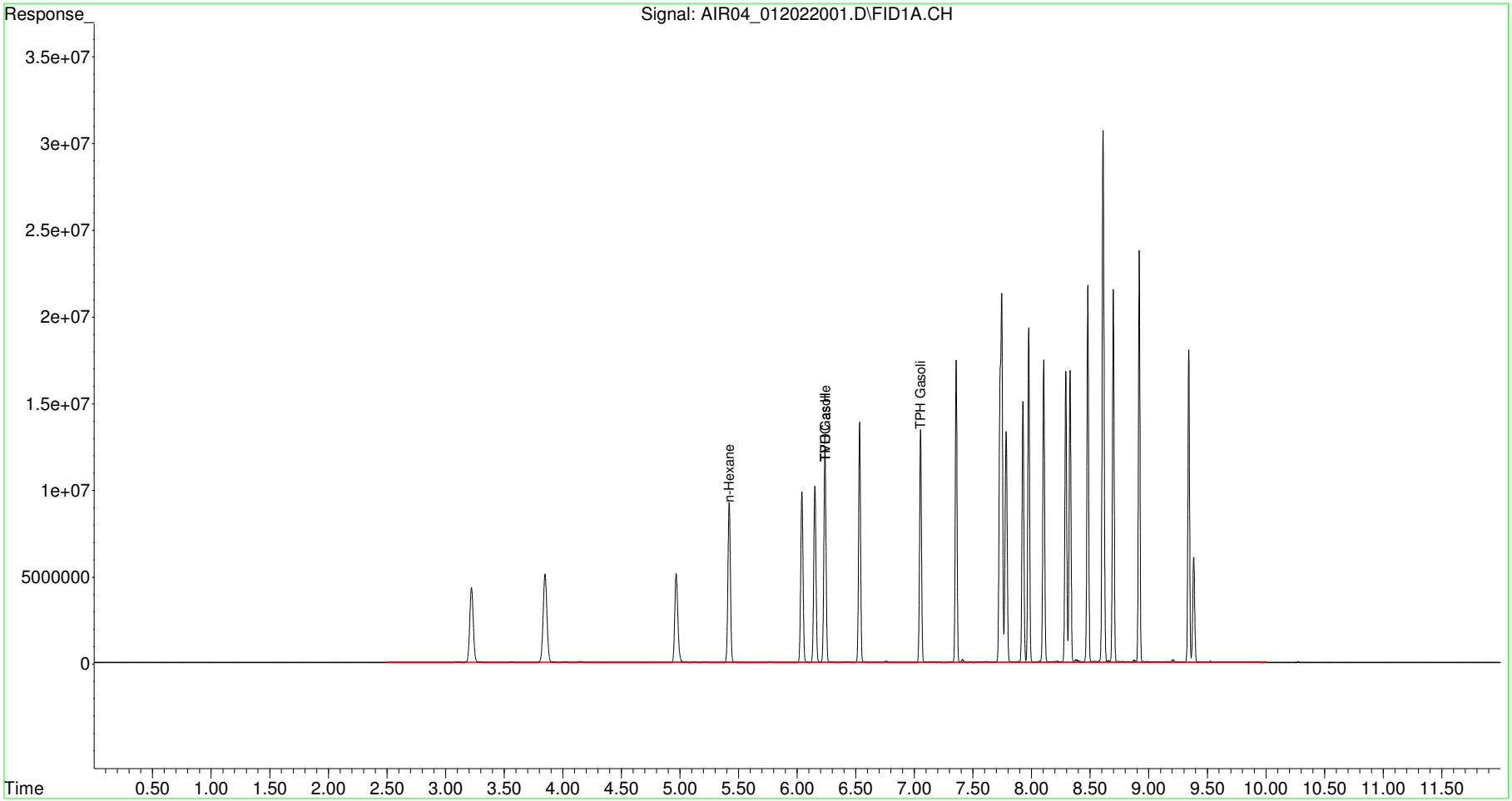
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 4078722686 | 2.343 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 3871681172 | 2.224 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 4078722686 | 2.996 uL/L |
| 4) T | n-Hexane | 5.420 | 136125384 | 0.100 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022001.D
Acq On : 20 Jan 2022 12:44 pm
Operator : LJB
Sample : CCV/BS,QC967565,282192,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:31:42 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022002.D
Acq On : 20 Jan 2022 1:14 pm
Operator : LJB
Sample : BSD,QC967566,282192,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:32:35 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

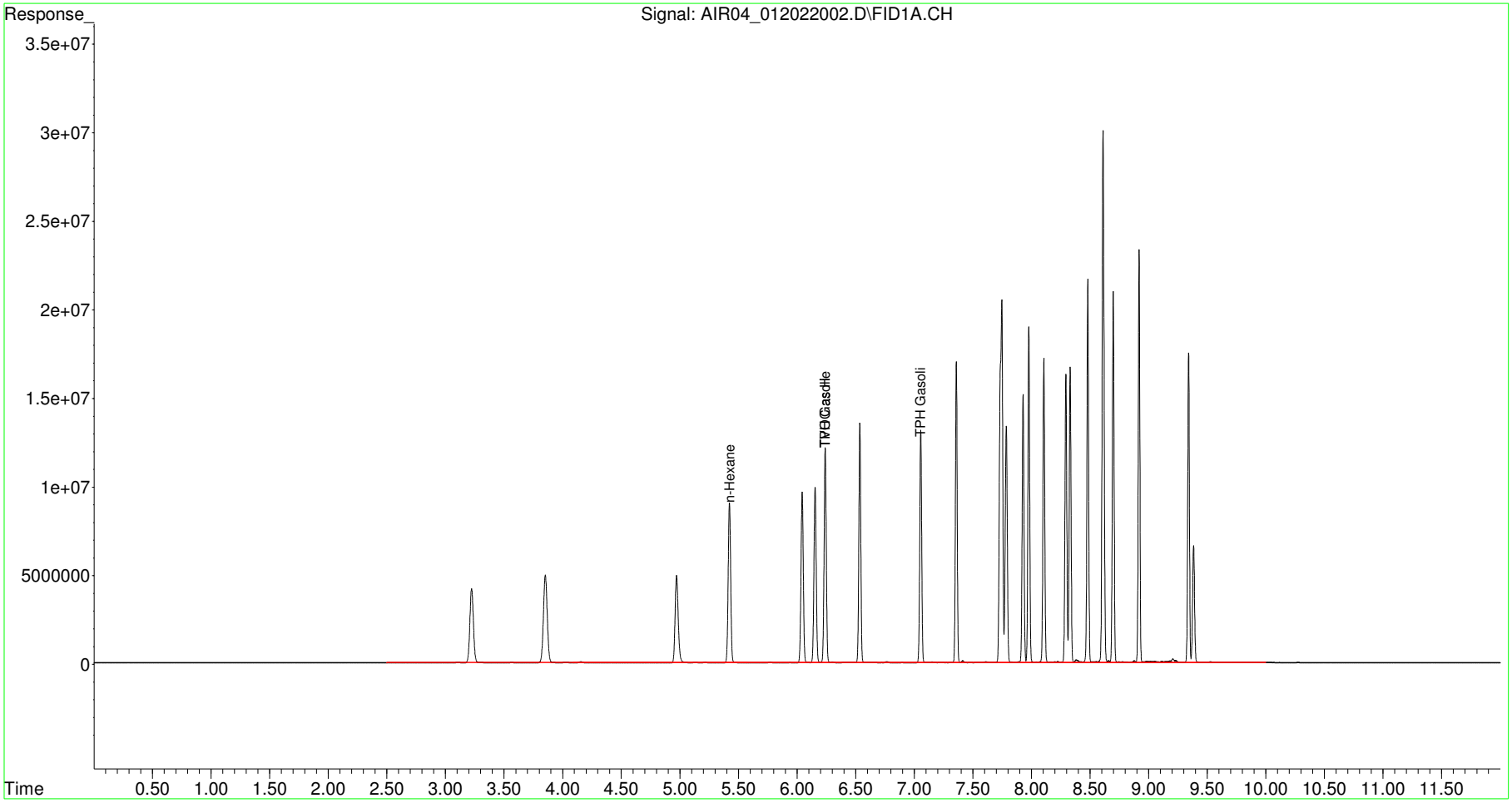
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 4007087913 | 2.301 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 3806098419 | 2.186 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 4007087913 | 2.943 uL/L |
| 4) T | n-Hexane | 5.423 | 132413355 | 0.097 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022002.D
Acq On : 20 Jan 2022 1:14 pm
Operator : LJB
Sample : BSD,QC967566,282192,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:32:35 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022003.D
Acq On : 20 Jan 2022 1:41 pm
Operator : LJB
Sample : IB
Misc : I1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:32:48 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

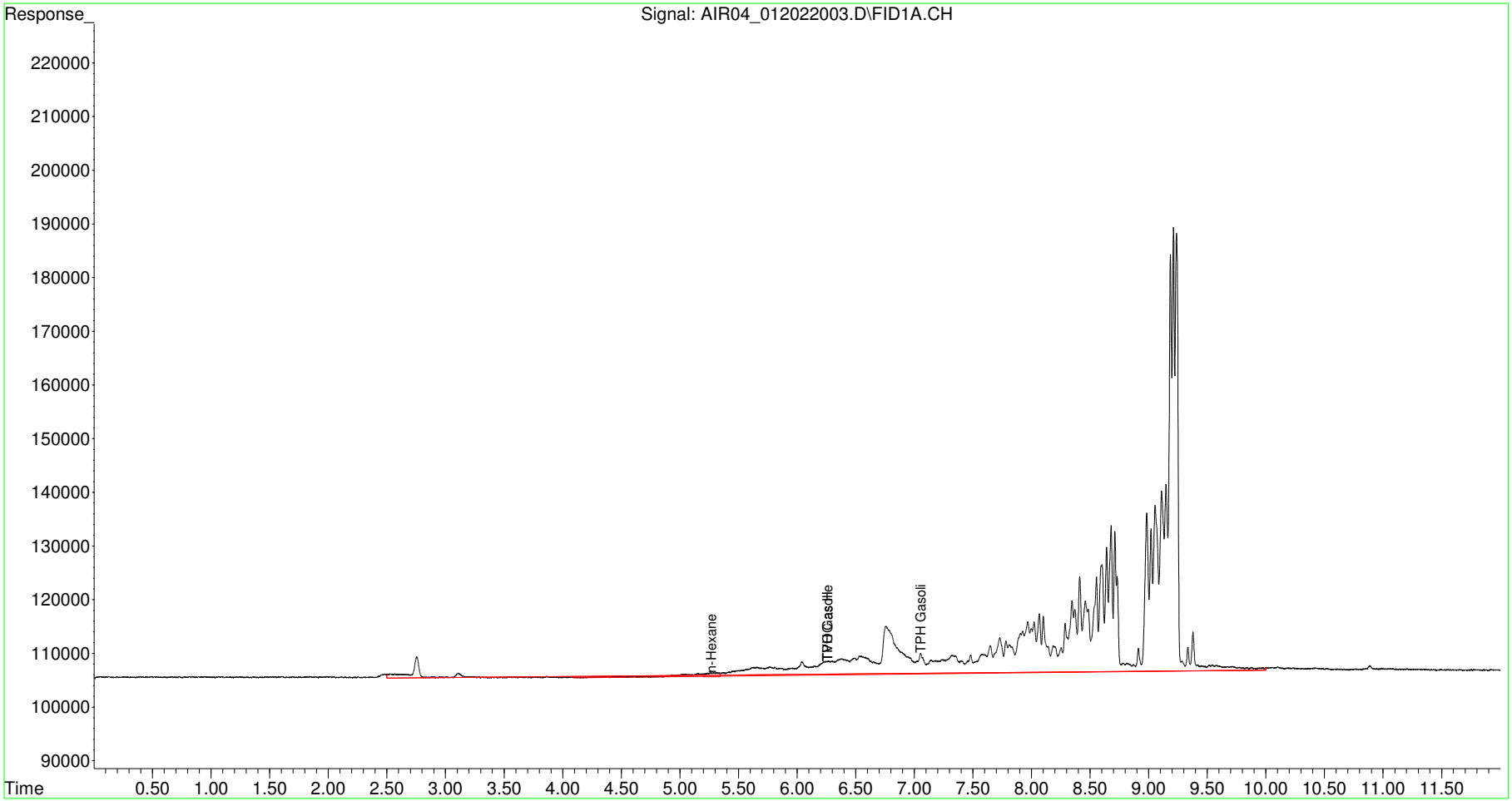
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 17821815 | 0.010 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 17525982 | 0.010 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 17821815 | 0.013 uL/L |
| 4) T | n-Hexane | 5.264 | 60249 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022003.D
Acq On : 20 Jan 2022 1:41 pm
Operator : LJB
Sample : IB
Misc : I1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:32:48 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022004.D
Acq On : 20 Jan 2022 2:12 pm
Operator : LJB
Sample : BLANK,QC967567,282192,1x,PDF:1
Misc : I1 1x200mL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:33:02 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

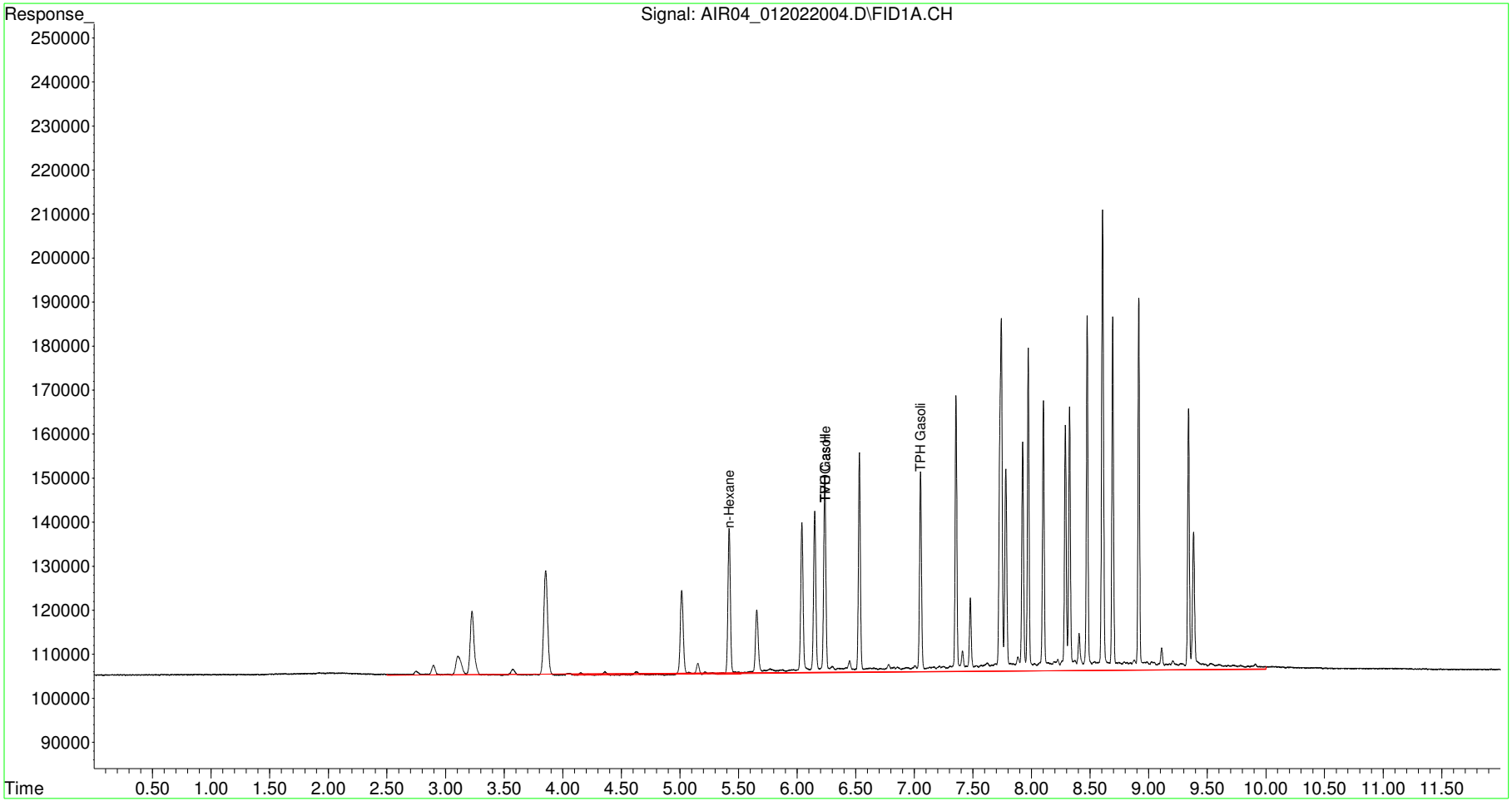
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 18163259 | 0.010 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 16928943 | 0.010 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 18163259 | 0.013 uL/L |
| 4) T | n-Hexane | 5.420 | 512645 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022004.D
Acq On : 20 Jan 2022 2:12 pm
Operator : LJB
Sample : BLANK,QC967567,282192,1x,PDF:1
Misc : I1 1x200mL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:33:02 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022013.D
Acq On : 20 Jan 2022 7:11 pm
Operator : LJB
Sample : CCV,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 12:35:38 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

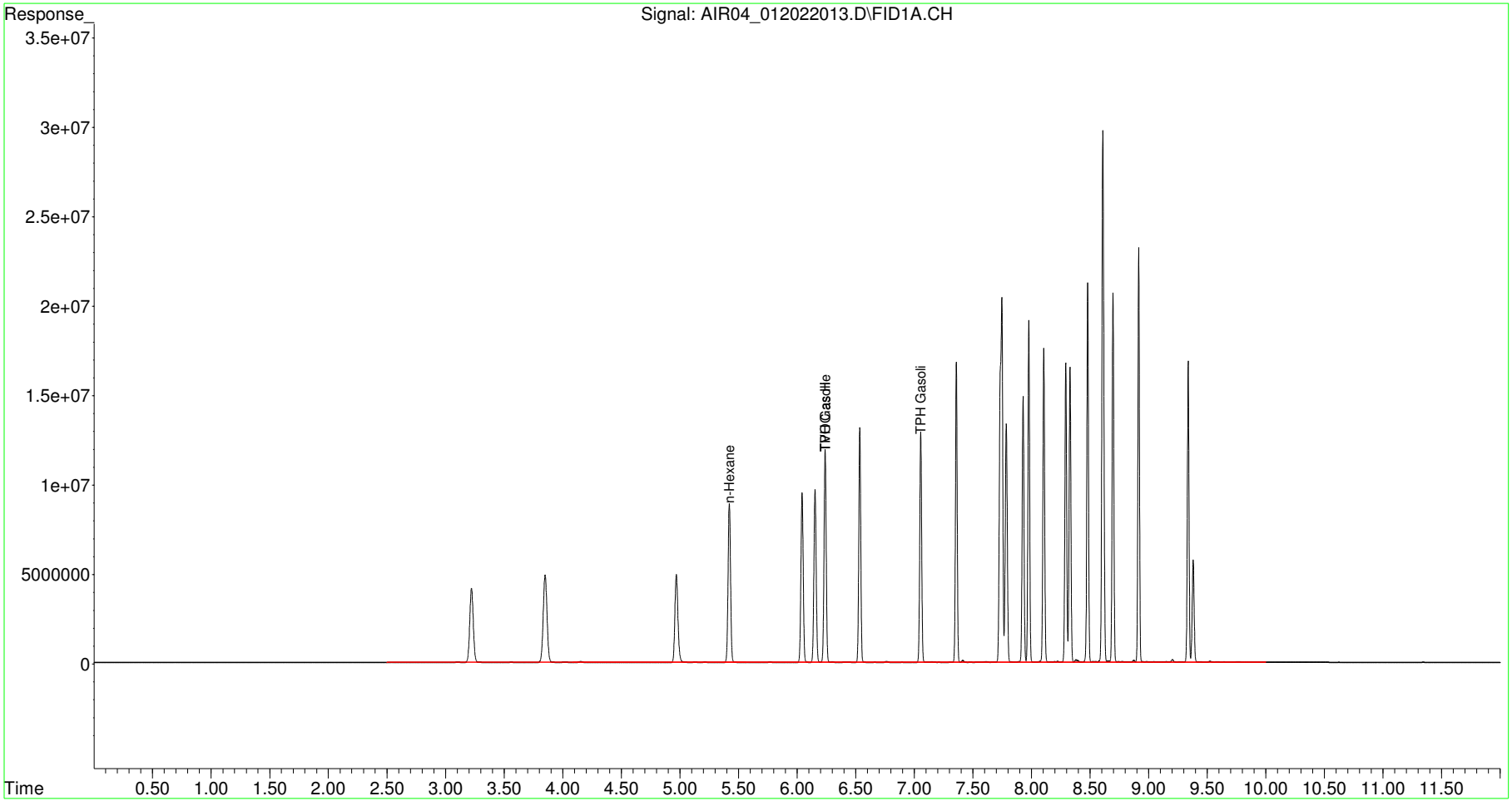
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 3936580681 | 2.261 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 3737660727 | 2.147 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 3936580681 | 2.891 uL/L |
| 4) T | n-Hexane | 5.422 | 130691809 | 0.096 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022013.D
Acq On : 20 Jan 2022 7:11 pm
Operator : LJB
Sample : CCV,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 12:35:38 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



# Raw Data

## Initial Calibration

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
931 W. Barkley Ave., Orange, CA 92868 • T: (714) 771-6900 • F: (714) 531-1209
www.enthalpy.com/socal

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421009.D
Acq On : 24 Nov 2021 2:15 pm
Operator : GSG
Sample : ICAL,S16078,10x,0.025ppmv
Misc : I1 1x20mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:03 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

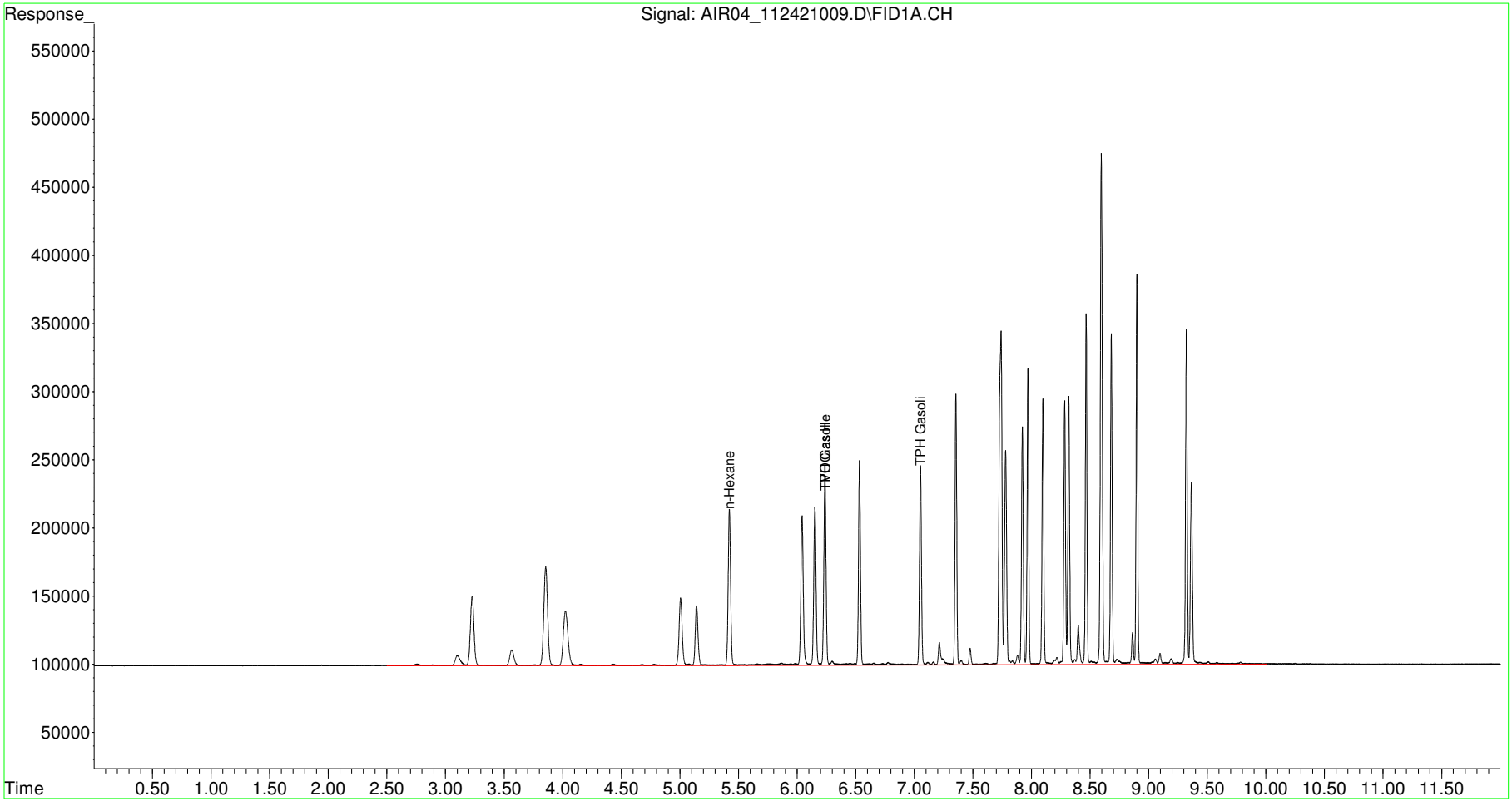
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 53211988 | 0.031 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 48688184 | 0.028 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 53211988 | 0.039 uL/L |
| 4) T | n-Hexane | 5.422 | 1650185 | 0.001 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421009.D
Acq On : 24 Nov 2021 2:15 pm
Operator : GSG
Sample : ICAL,S16078,10x,0.025ppmv
Misc : I1 1x20mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:03 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421010.D
Acq On : 24 Nov 2021 2:43 pm
Operator : GSG
Sample : ICAL,S16078,2.5x,0.100ppmv
Misc : I1 1x80mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:32 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

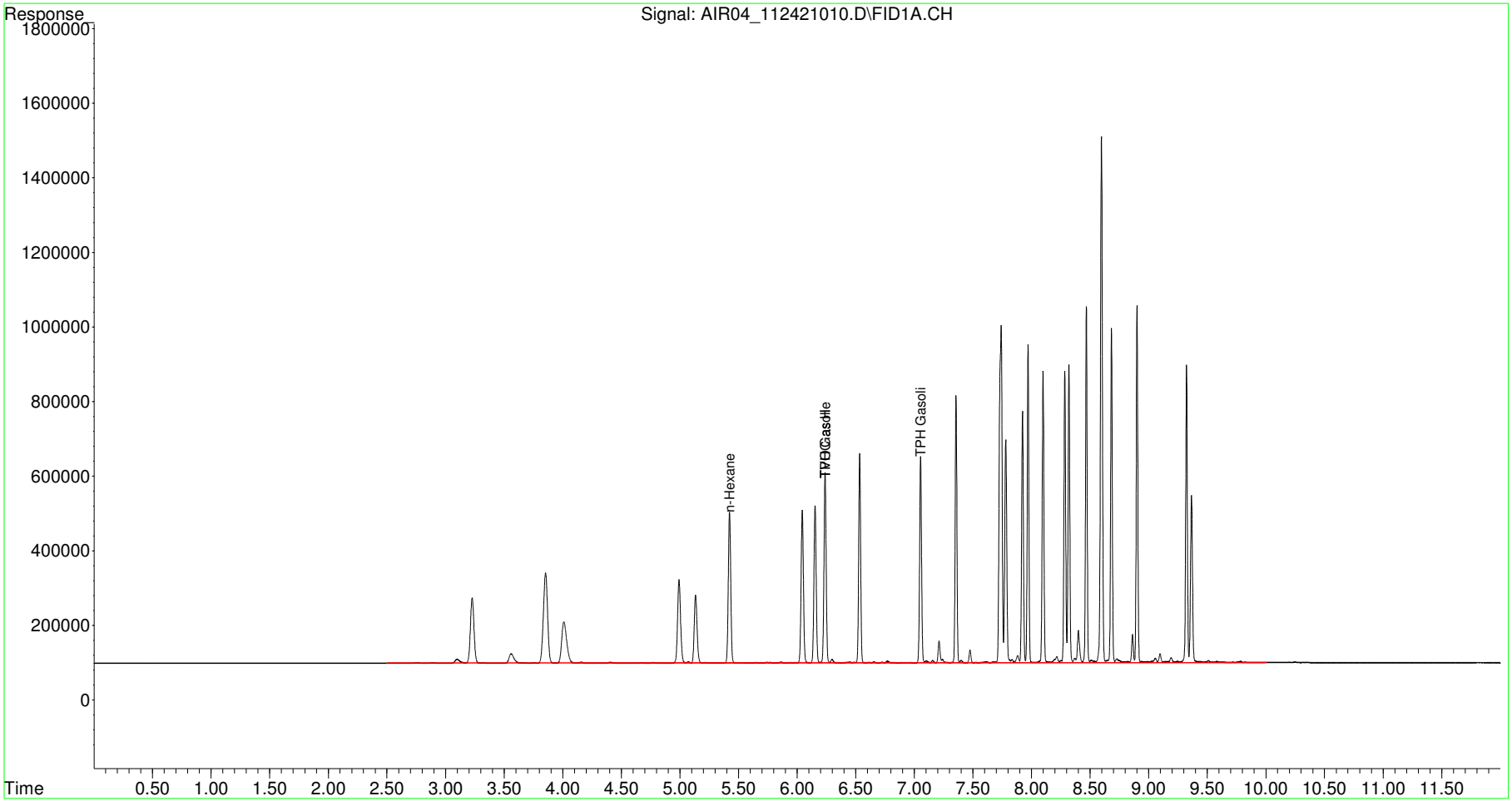
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 190148013 | 0.109 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 175846990 | 0.101 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 190148013 | 0.140 uL/L |
| 4) T | n-Hexane | 5.423 | 5880299 | 0.004 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421010.D
Acq On : 24 Nov 2021 2:43 pm
Operator : GSG
Sample : ICAL,S16078,2.5x,0.100ppmv
Misc : I1 1x80mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:32 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421011.D
Acq On : 24 Nov 2021 3:13 pm
Operator : GSG
Sample : ICAL,S16078,1x,0.250ppmv
Misc : I1 1x200mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:46 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

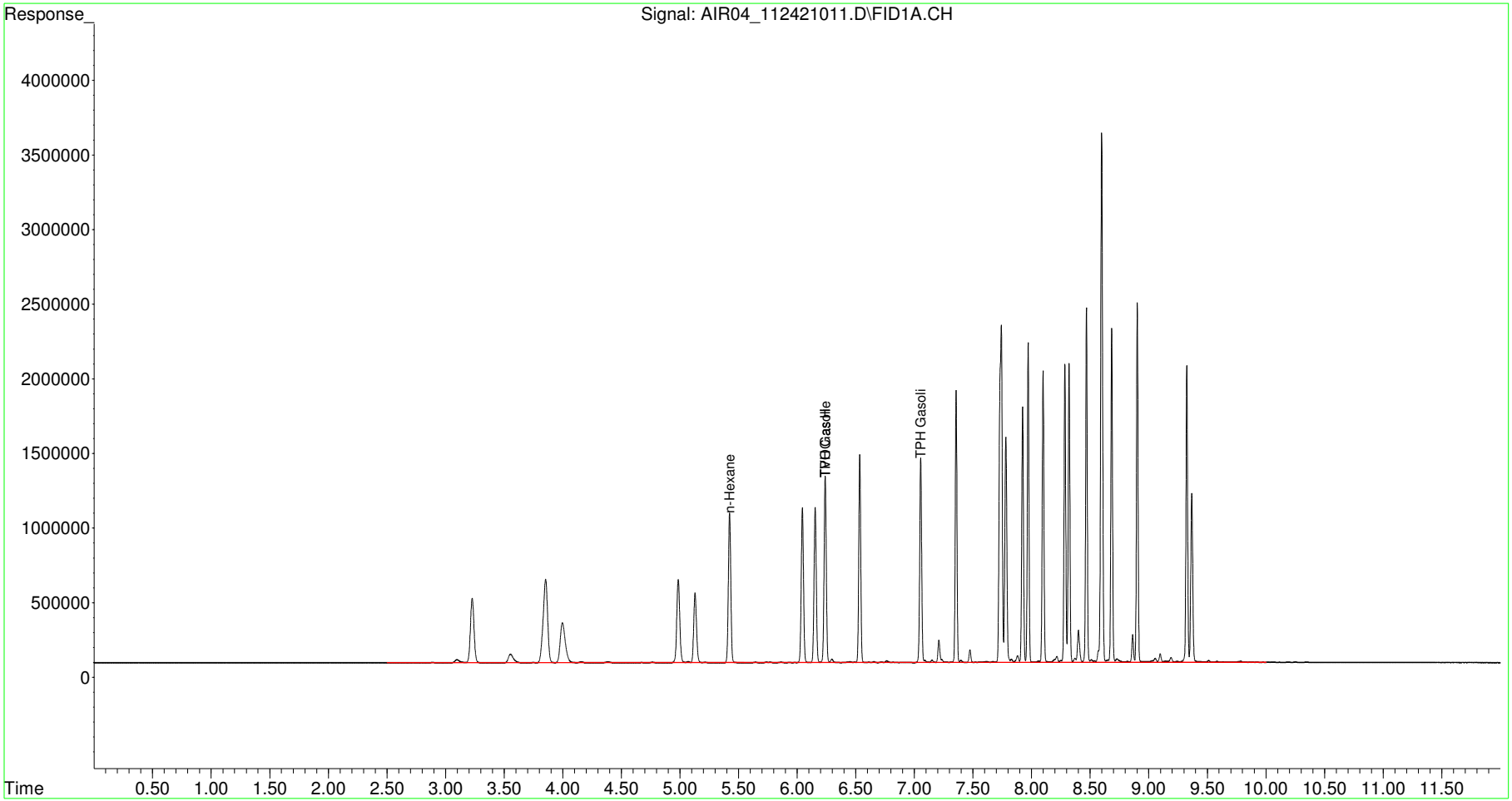
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 472389044 | 0.271 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 437682365 | 0.251 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 472389044 | 0.347 uL/L |
| 4) T | n-Hexane | 5.423 | 14472312 | 0.011 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421011.D
Acq On : 24 Nov 2021 3:13 pm
Operator : GSG
Sample : ICAL,S16078,1x,0.250ppmv
Misc : I1 1x200mL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 14:36:46 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421012.D
Acq On : 24 Nov 2021 3:43 pm
Operator : GSG
Sample : ICAL,S16186,1x,2.5ppmv
Misc : I2 1x200mL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 14:37:01 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

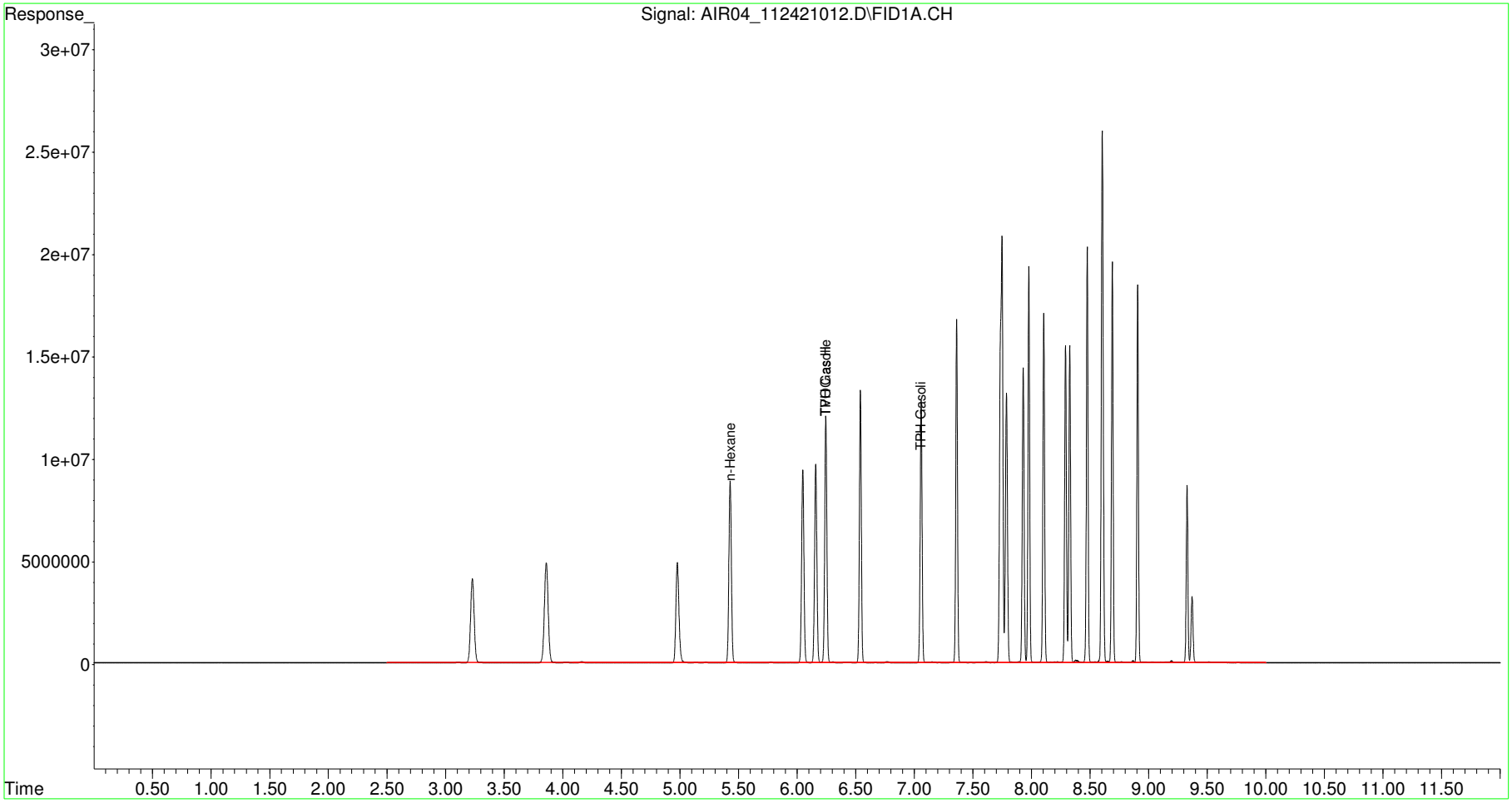
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 3651658404 | 2.097 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 3453423981 | 1.983 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 3651658404 | 2.682 uL/L |
| 4) T | n-Hexane | 5.429 | 130383417 | 0.096 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421012.D
Acq On : 24 Nov 2021 3:43 pm
Operator : GSG
Sample : ICAL,S16186,1x,2.5ppmv
Misc : I2 1x200mL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 14:37:01 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421013.D
Acq On : 24 Nov 2021 4:13 pm
Operator : GSG
Sample : ICAL,S16076,1x,25ppmv
Misc : I1 1x200mL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 12:06:19 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

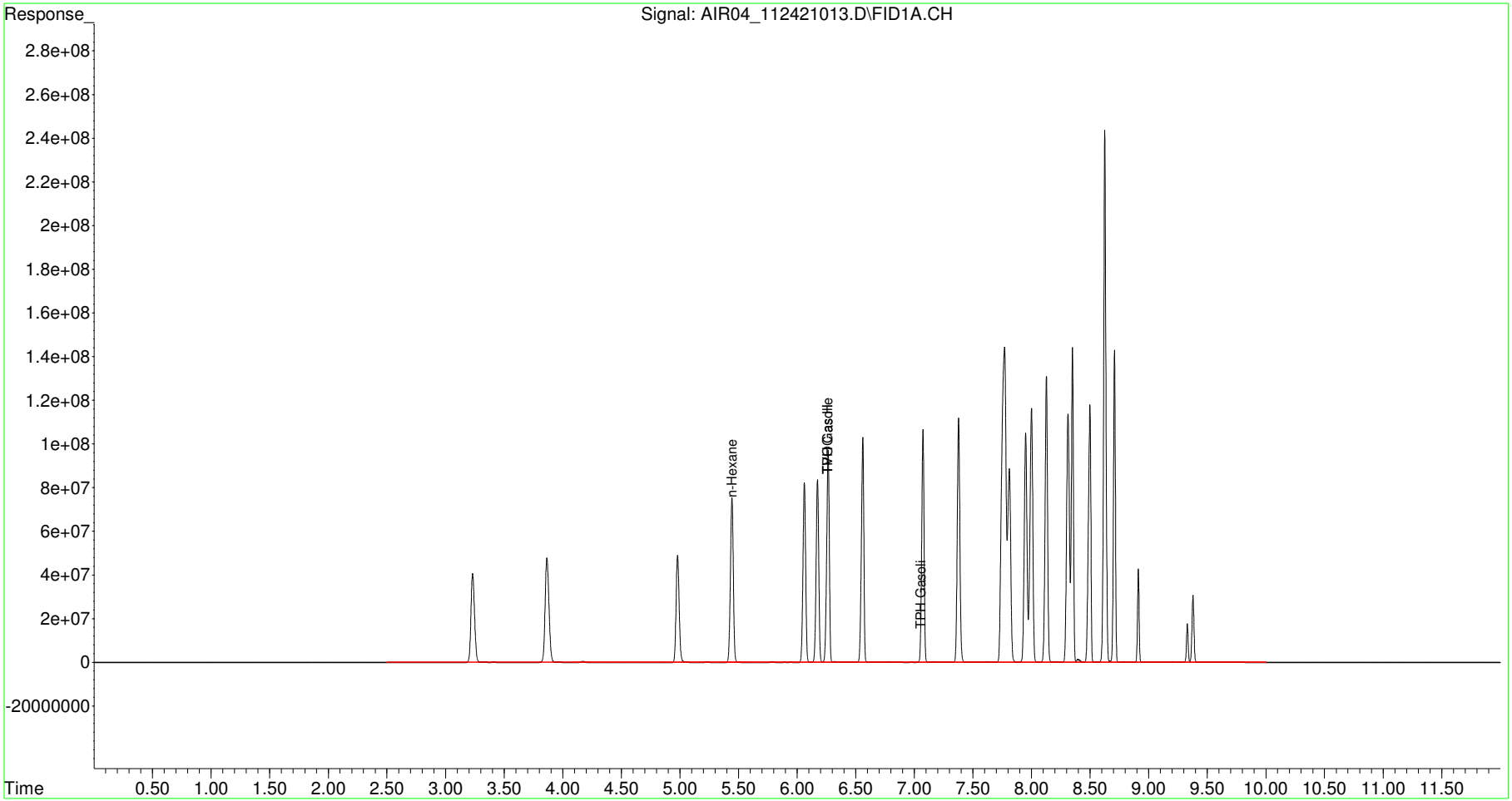
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 35217909706 | 20.227 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 33264953753 | 19.105 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 35217909706 | 25.866 uL/L |
| 4) T | n-Hexane | 5.444 | 1294299044 | 0.951 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421013.D
Acq On : 24 Nov 2021 4:13 pm
Operator : GSG
Sample : ICAL,S16076,1x,25ppmv
Misc : I1 1x200mL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 12:06:19 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421014.D
Acq On : 24 Nov 2021 4:43 pm
Operator : GSG
Sample : ICAL,S14835,1x,10ppmv
Misc : I1 1x200mL Hx ONLY
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 30 12:06:21 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

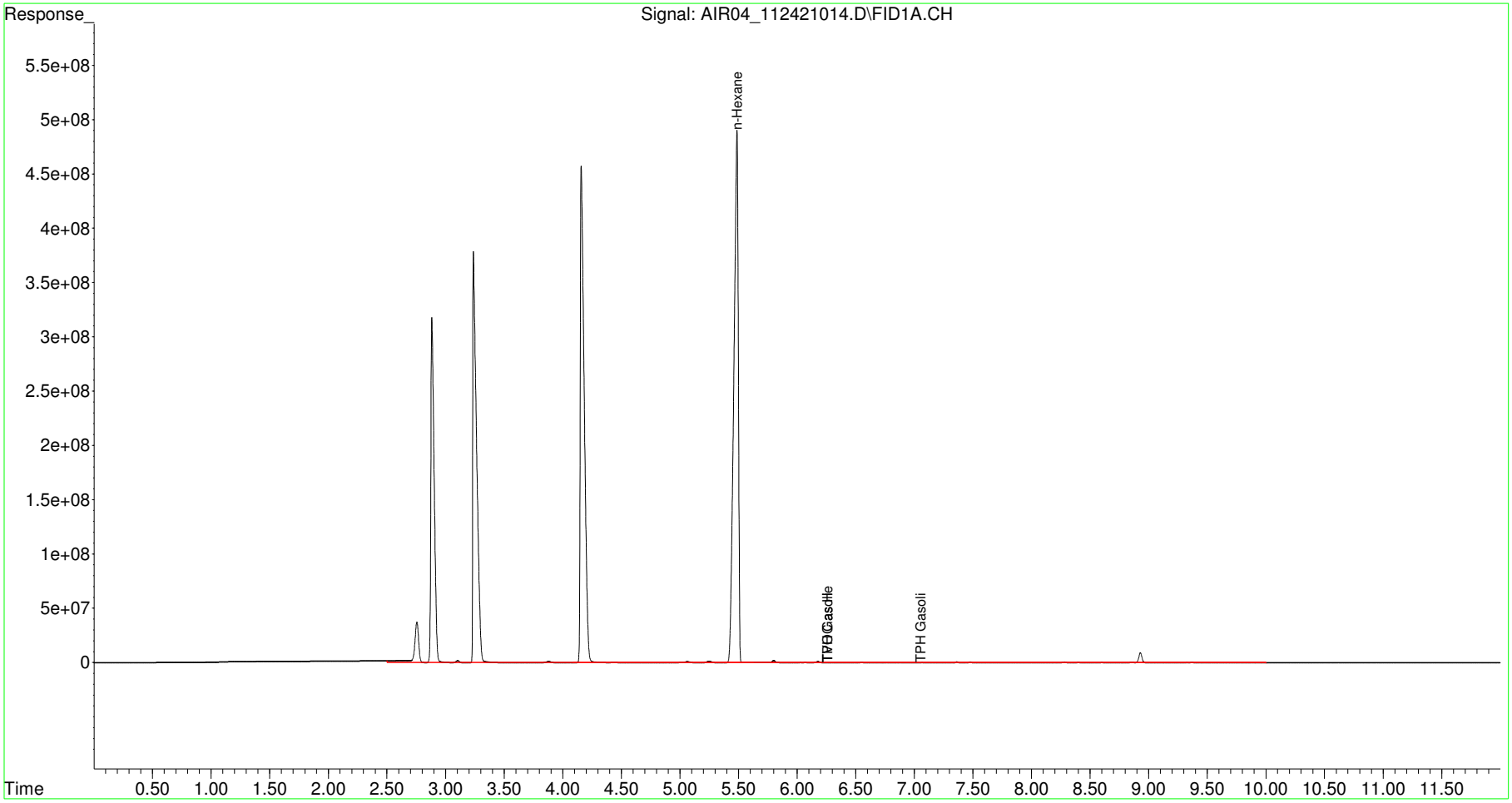
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 39961032976 | 22.951 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 24074465731 | 13.827 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 39961032976 | 29.349 uL/L |
| 4) T | n-Hexane | 5.486 | 12945335333 | 9.508 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421014.D
Acq On : 24 Nov 2021 4:43 pm
Operator : GSG
Sample : ICAL,S14835,1x,10ppmv
Misc : I1 1x200mL Hx ONLY
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 30 12:06:21 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421015.D
Acq On : 24 Nov 2021 5:09 pm
Operator : GSG
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 12:06:23 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

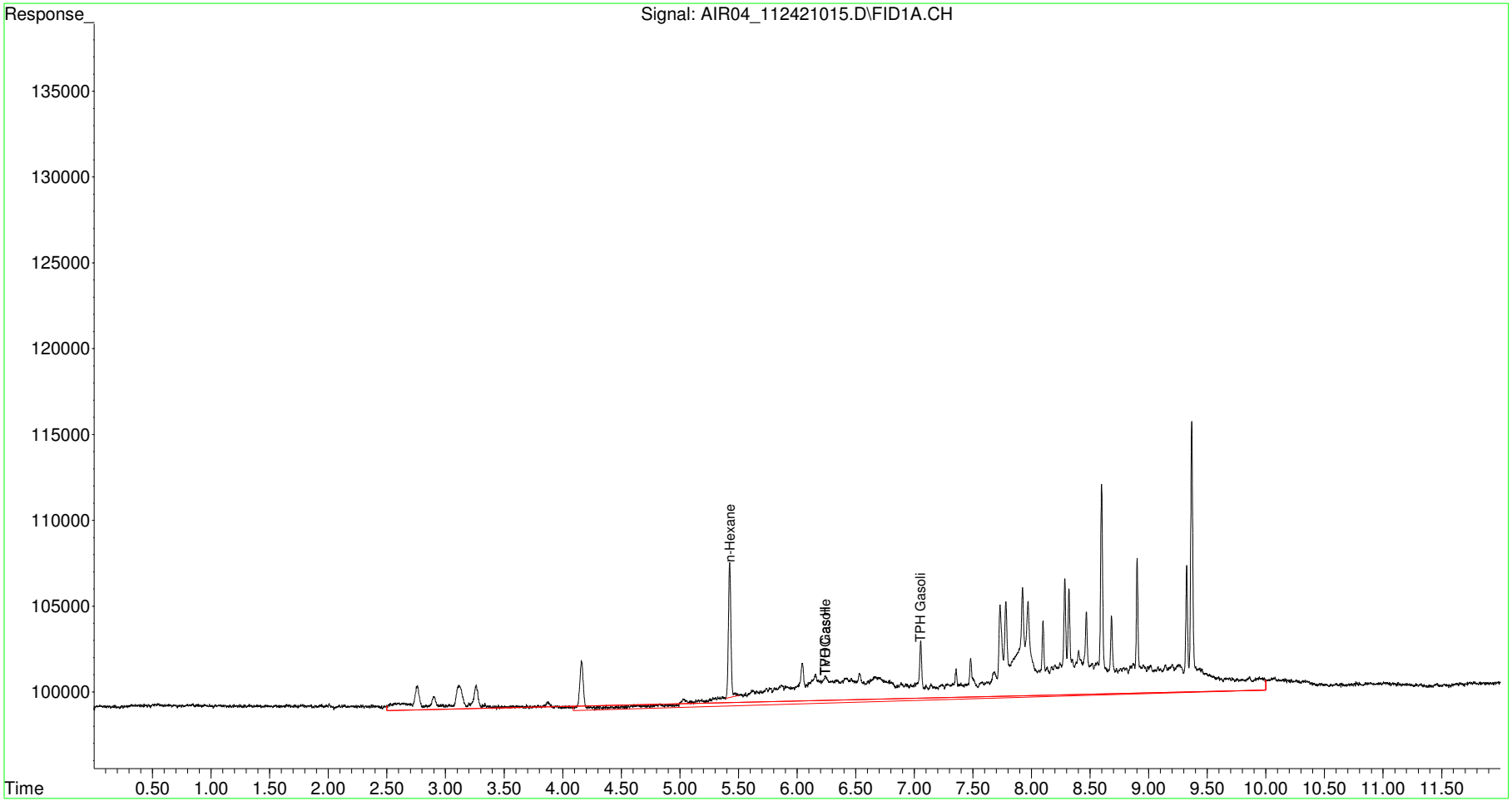
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 1950763 | 0.001 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 1835743 | 0.001 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 1950763 | 0.001 uL/L |
| 4) T | n-Hexane | 5.425 | 116656 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421015.D
Acq On : 24 Nov 2021 5:09 pm
Operator : GSG
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 12:06:23 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421016.D
Acq On : 24 Nov 2021 5:36 pm
Operator : GSG
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 12:06:25 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

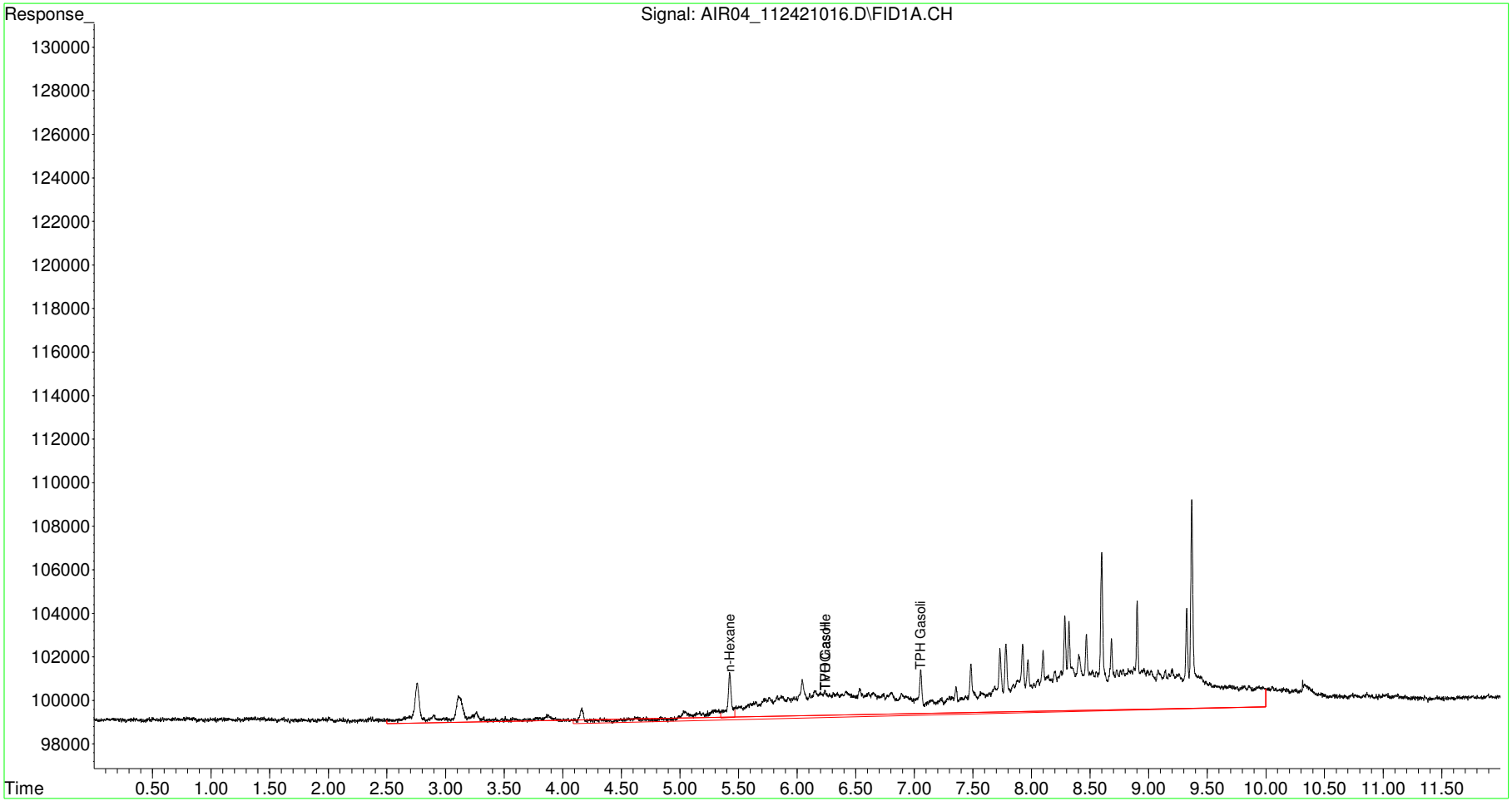
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 1306042 | 0.001 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 1219270 | 0.001 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 1306042 | 0.001 uL/L |
| 4) T | n-Hexane | 5.425 | 47647 | 0.000 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421016.D
Acq On : 24 Nov 2021 5:36 pm
Operator : GSG
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 12:06:25 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



# Raw Data

## Sequence Quality Control

### Initial and Continuing Calibration Verifications

**Enthalpy Analytical, an affiliate of Montrose Environmental Company**
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www.enthalpy.com/socal

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022001.D
Acq On : 20 Jan 2022 12:44 pm
Operator : LJB
Sample : CCV/BS,QC967565,282192,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:31:42 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

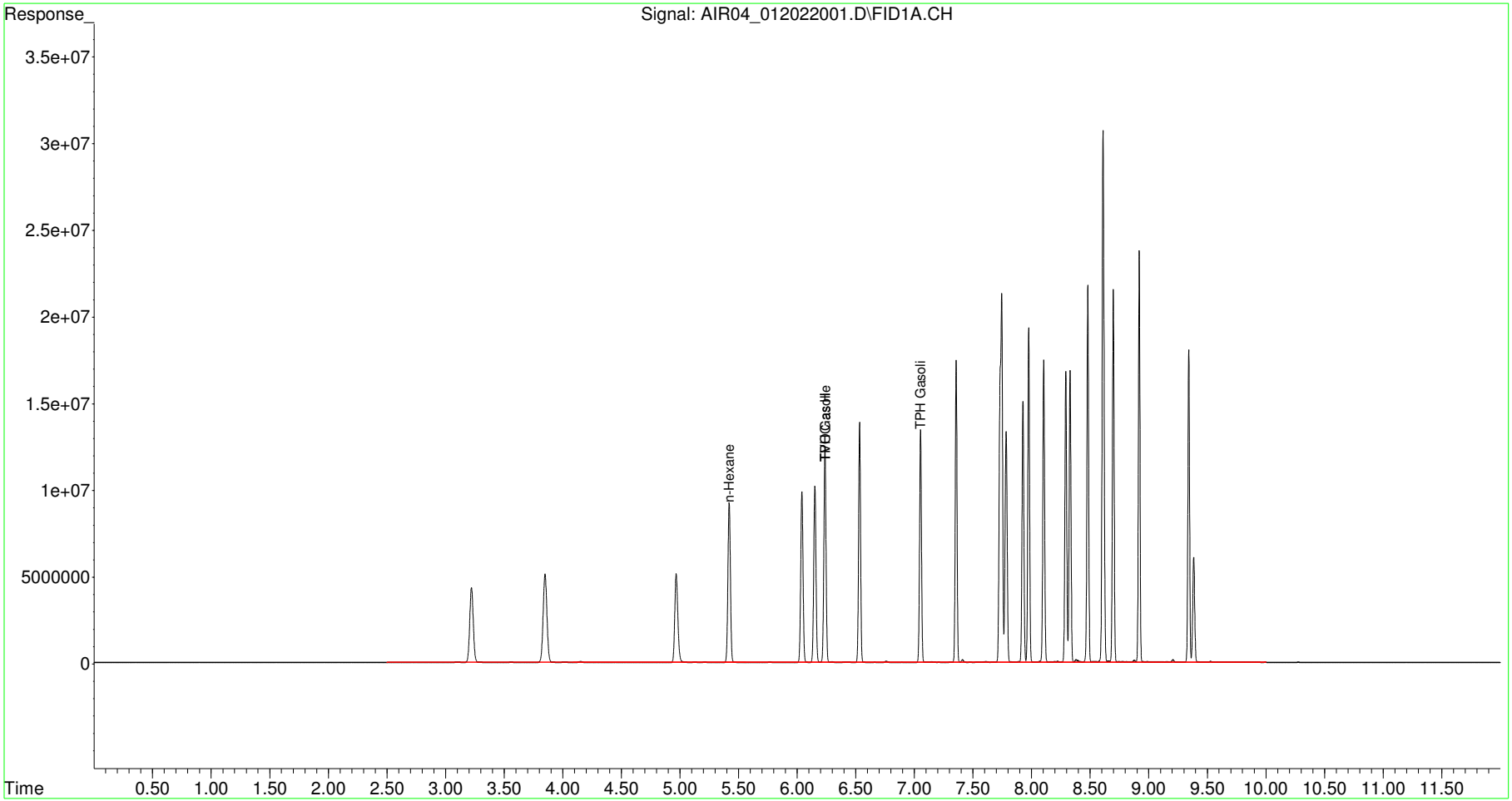
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 4078722686 | 2.343 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 3871681172 | 2.224 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 4078722686 | 2.996 uL/L |
| 4) T | n-Hexane | 5.420 | 136125384 | 0.100 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022001.D
Acq On : 20 Jan 2022 12:44 pm
Operator : LJB
Sample : CCV/BS,QC967565,282192,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 12:31:42 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022013.D
Acq On : 20 Jan 2022 7:11 pm
Operator : LJB
Sample : CCV,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 12:35:38 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

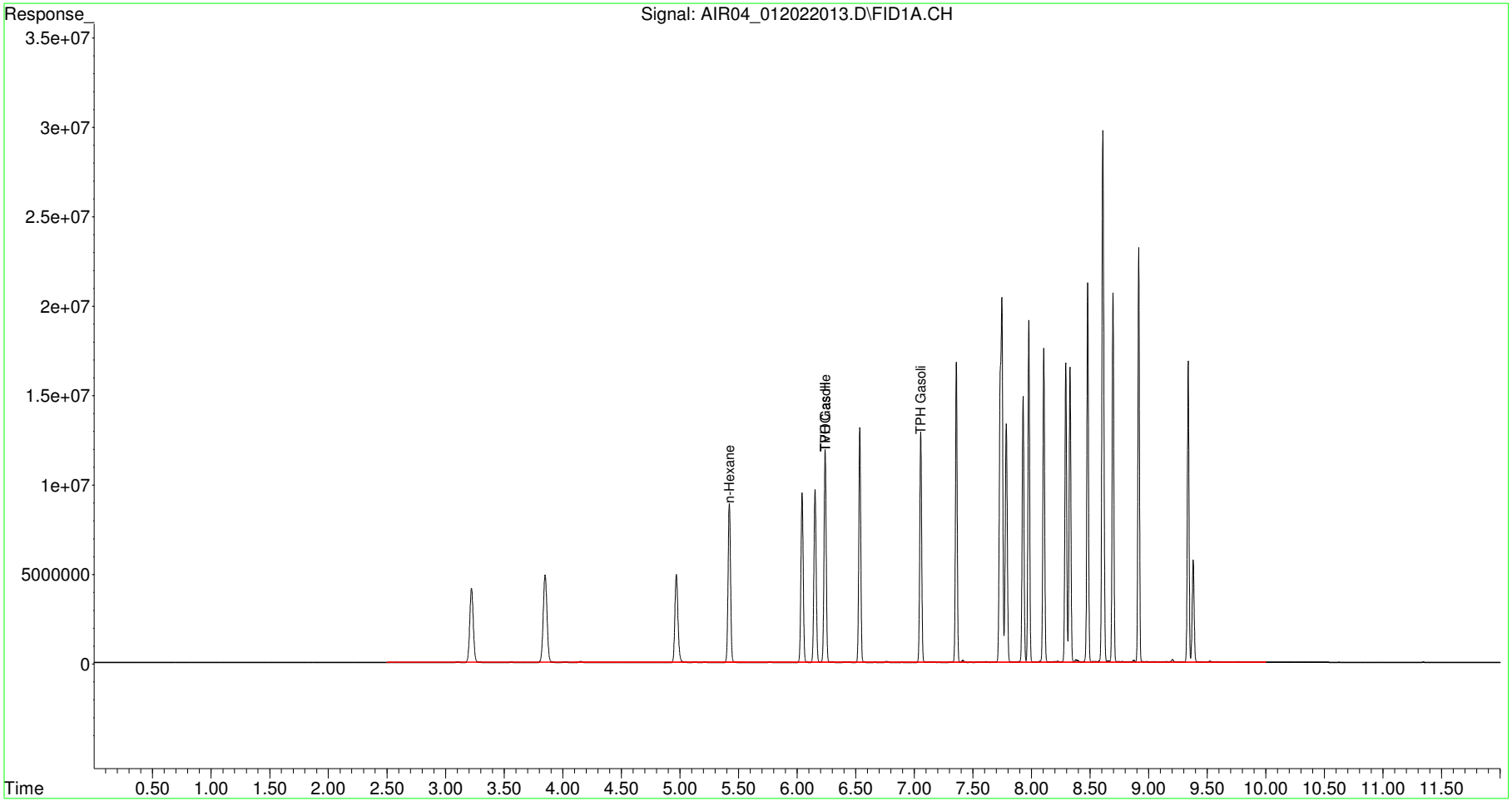
| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 3936580681 | 2.261 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 3737660727 | 2.147 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 3936580681 | 2.891 uL/L |
| 4) T | n-Hexane | 5.422 | 130691809 | 0.096 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022\220120_TO3\
Data File : AIR04_012022013.D
Acq On : 20 Jan 2022 7:11 pm
Operator : LJB
Sample : CCV,S16186,1x,PDF:1
Misc : I2 1x200mL 2.5ppmv
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 21 12:35:38 2022
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
Data File : AIR04_112421017.D
Acq On : 24 Nov 2021 6:06 pm
Operator : GSG
Sample : ICV,S16187,1x,PDF:1,2.5ppmv
Misc : I1 1x200mL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 12:06:27 2021
Quant Method : C:\msdchem\1\methods\Quant Methods\TO3M_211124_1.m
Quant Title : AIR-GC04 TO-3M TPH-Gas
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| Target Compounds | | | | |
| 1) H | TPH Gasoline | 6.250 | 4164890159 | 2.392 uL/L |
| 2) H | TPH Gasoline (C5-C12) | 7.044 | 3963127407 | 2.276 uL/L |
| 3) H | TVOC as Hexane | 6.250 | 4164890159 | 3.059 uL/L |
| 4) T | n-Hexane | 5.428 | 132409782 | 0.097 uL/L |

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2021\211124_TO3 ICAL\
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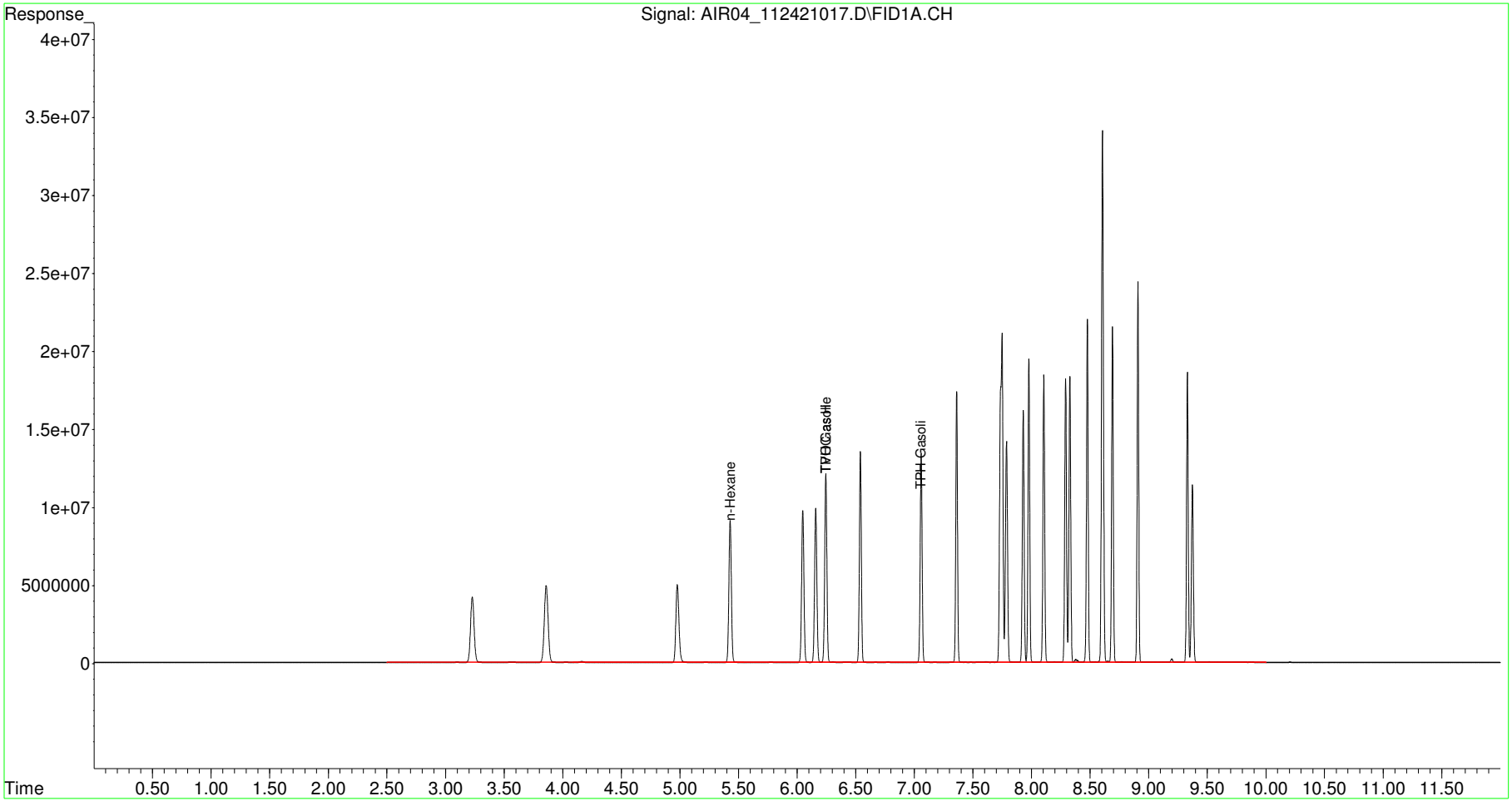
QLast Update : Tue Nov 30 11:23:30 2021
Response via : Initial Calibration
Signal(s) : FID1A.CH



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