Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 9 Oct 20 15:04
Matrix: Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
1		1,4-Dioxane	0.3588	0.3840	7.0		
2	TM	n-Nitrosodimethylamine	0.5546	0.6000	8.2	TM	
3	TM	Pyridine	1.551	1.511	2.6	TM	
4	*TM	Phenol	2.239	2.219	0.88	*TM	
5	TM	Aniline	1.755	1.852	5.5	TM	
6	TM	Bis (2-chloroethyl) ether	0.9045	0.8733	3.4	TM	
7	TM	2-Chlorophenol	1.864	1.873	0.51	TM	
8	TM	1,3-DCB	1.992	2.059	3.4	TM	
9	*TM	1,4-DCB	2.033	2.070	1.8	*TM	
10	TM	Benzyl alcohol	1.042	1.029	1.2	TM	
11	TM	1,2-DCB	1.910	1.941	1.6	TM	
12	TM	2-Methylphenol	1.379	1.341	2.8	TM	
13	TM	Bis (2-chloroisopropyl) ether	1.186	1.133	4.5	TM	
14	TM	Acetophenone	2.406	2.331	3.1	TM	
15	TM	3&4-Methylphenol	1.915	1.919	0.18	TM	
16	**TM	n-Nitrosodi-n-propylamine	1.212	1.184	2.3	**TM	
17	TM	Hexachloroethane	0.7164	0.7439	3.8	TM	
18	TM	Nitrobenzene	0.4309	0.4428	2.8	TM	
19	TM	Isophorone	0.7379	0.7698	4.3	TM	
20	*TM	2-Nitrophenol	0.2595	0.2685	3.5	*TM	
21	TM	2,4-Dimethylphenol	0.4053	0.4011	1.0	TM	
22	TML	Benzoic acid	0.2281	0.3005	32	TML	9.1
23	TM	Bis (2-chloroethoxy) methane	0.4685	0.4517	3.6	TM	
24	*TM	2,4-Dichlorophenol	0.4033	0.4044	0.27	*TM	
25	TM	1,2,4-Trichlorobenzene	0.4494	0.4623	2.9	TM	
26	TM	3,4-Dimethylphenol	0.5663	0.5509	2.7	TM	
27	TM	Naphthalene	1.312	1.311	0.02	TM	
28	TM	4-Chloroaniline	0.5518	0.5476	0.77	TM	
29	TM	2,6-Dichlorophenol	0.3974	0.3950	0.60	TM	
30	TM	Hexachloropropene	0.3271	0.3385	3.5	TM	
31	*TM	Hexachlorobutadiene	0.2760	0.2880	4.3	*TM	
32	TM	Caprolactum	0.1313	0.1297	1.2	TM	
33	*TM	4-Chloro-3-methylphenol	0.4121	0.4175	1.3	*TM	
34	TM	2-Methylnaphthalene	0.8852	0.9660	9.1	TM	
35	TM	1-Methylnaphthalene	0.9167	0.9017	1.6	TM	
36	**TM	Hexachlorocyclopentadiene	0.5574	0.5527	0.84	**TM	
37	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.7867	2.5	TM	
38	*TM	2,4,6-Trichlorophenol	0.5357	0.5317	0.76	*TM	
39	TM	2,4,5-Trichlorophenol	0.5612	0.5730	2.1	TM	
40	TM	1,1'-Biphenyl	1.924	1.880	2.3	TM	
		Average			3.4		

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Case No:
Matrix: 0

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	2-Chloronaphthalene	1.522	1.530	0.52	TM	
42	TM	2-Nitroaniline	0.3796	0.3919	3.2	TM	
43	TM	Dimethyl phthalate	1.821	1.754	3.7	TM	
44	TM	2,6-DNT	0.4045	0.4267	5.5	TM	
45	TM	Acenaphthylene	2.334	2.281	2.3	TM	
46	TM	3-Nitroaniline	0.5014	0.5212	4.0	TM	
47	*TM	Acenaphthene	1.551	1.552	0.05	*TM	
48	**TML	2,4-Dinitrophenol	0.1987	0.2081	4.7	**TML	0.27
49	**TM	4-Nitrophenol	0.2824	0.2943	4.2	**TM	
50	TM	Dibenzofuran	2.210	2.160	2.3	TM	
51	TM	2,4-DNT	0.5755	0.6014	4.5	TM	
52	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4860	3.7	TM	
53	TM	Diethyl phthalate	1.778	1.698	4.5	TM	
54	TM	4-Chlorophenyl phenyl ether	1.025	0.9806	4.4	TM	
55	TM	Fluorene	1.828	1.777	2.8	TM	
56	TM	4-Nitroaniline	0.4196	0.4194	0.06	TM	
57	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2041	4.9	TM	
58	TM	Diphenyl amine	0.7572	0.7578	0.07	TM	
59	*TM	n-Nitrosodiphenylamine	0.7572	0.7578	0.07	*TM	
60	TM	1,2-Diphenylhydrazine	0.7331	0.7678	4.7	TM	
61	TM	4-Bromophenyl phenyl ether	0.2995	0.2940	1.8	TM	
62	TM	Hexachlorobenzene	0.3219	0.3228	0.27	TM	
63	TM	Atrazine	0.2783	0.2851	2.5	TM	
64	*TM	Pentachlorophenol	0.2190	0.2289	4.5	*TM	
65	TM	Phenanthrene	1.358	1.342	1.2	TM	
66	TM	Anthracene	1.412	1.409	0.20	TM	
67	TM	Carbazol	1.270	1.264	0.43	TM	
68	TM	Di-n-butylphthalate	1.536	1.511	1.7	TM	
69	*TM	Fluoranthene	1.570	1.560	0.67	*TM	
70	TM	Benzidine	0.4483	0.5235	17	TM	
71	TM	Pyrene	1.596	1.586	0.61	TM	
72	TM	Butyl benzylphthalate	0.6574	0.6699	1.9	TM	
73	TM	3,3'-Dichlorobenzidine	0.5283	0.5702	7.9	TM	
74	TM	Benz (a) anthracene	1.607	1.576	1.9	TM	
75	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9398	1.9	TM	
76	TM	Chrysene	1.546	1.515	2.0	TM	
77	*TM	Di-n-octylphthalate	1.510	1.579	4.6	*TM	
78	TM	Benzo (b) fluoranthene	1.552	1.621	4.4	TM	
79	TM	Benzo (k) fluoranthene	1.503	1.517	0.88	TM	
80	*TM	Benzo (a) pyrene	1.419	1.463	3.1	*TM	
		Average			3.0		

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Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Indeno (1,2,3-cd) pyrene	1.602	1.568	2.1	TM	
82	TM	Dibenz (a,h) anthracene	1.396	1.434	2.7	TM	
83	TM	Benzo (g,h,i) perylene	1.392	1.406	1.00	TM	
84							
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119							
120							
		Average			1.9		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216183	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	873280	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	536403	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1035458	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	1061772	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1035051	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	0.00	112	0	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
6) Phenol-D6 (S)	0.00	99	0	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
22) Nitrobenzene-D5(S)	5.68	82	44035	4.82064 ppb	-0.05
Spiked Amount 100.000			Recovery =	4.821%	
46) 2-Fluorobiphenyl(S)	7.71	172	695	0.03074 ppb	-0.06
Spiked Amount 100.000			Recovery =	0.031%	
64) 2,4,6-Tribromophenol(S)	9.47	330	157	0.04046 ppb	0.00
Spiked Amount 200.000			Recovery =	0.020%	
82) Terphenyl-D14(S)	0.00	244	0	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	10377	5.35201	83
3) n-Nitrosodimethylamine	2.03	42	162139	54.09601 ppb	99
4) Pyridine	2.05	79	408244	48.70119 ppb	100
7) Phenol	4.72	94	599636	49.56231 ppb	94
8) Aniline	4.76	93	500352	52.75609 ppb	97
9) Bis (2-chloroethyl) ether	4.83	63	236003	48.27565 ppb	97
10) 2-Chlorophenol	4.88	128	506162	50.25677 ppb	95
11) 1,3-DCB	5.06	146	556468	51.69667 ppb	98
12) 1,4-DCB	5.14	146	559251	50.90140 ppb	100
13) Benzyl alcohol	5.27	108	278105	49.37920 ppb	98
14) 1,2-DCB	5.30	146	524514	50.79889 ppb	99
15) 2-Methylphenol	5.39	107	362346	48.61004 ppb	99
16) Bis (2-chloroisopropyl) et	5.43	45	306191	47.76973 ppb	97
17) Acetophenone	5.57	105	629817	48.43822 ppb	97
18) 3&4-Methylphenol	5.57	107	1037012	100.18123 ppb	97
19) n-Nitrosodi-n-propylamine	5.57	70	320028	48.86346 ppb	91
20) Hexachloroethane	5.68	117	201028	51.92266 ppb	95
23) Nitrobenzene	5.74	77	483369	51.38537 ppb	89
24) Isophorone	6.02	82	840280	52.16202 ppb	98
25) 2-Nitrophenol	6.10	139	293131	51.74788 ppb #	81
26) 2,4-Dimethylphenol	6.15	122	437860	49.48015 ppb	98
27) Benzoic acid	6.24	105	327995m	54.56581 ppb	97
28) Bis (2-chloroethoxy) metha	6.26	93	493099	48.21356 ppb	100
29) 2,4-Dichlorophenol	6.37	162	441395	50.13626 ppb	99
30) 1,2,4-Trichlorobenzene	6.47	180	504605	51.43079 ppb	98
31) 3,4-Dimethylphenol	6.49	107	601322	48.63904 ppb	98
32) Naphthalene	6.56	128	1431422	49.98782 ppb	100
33) 4-Chloroaniline	6.62	127	597741	49.61508 ppb	100
34) 2,6-Dichlorophenol	6.63	162	431213	49.70021 ppb	99
35) Hexachloropropene	6.66	213	369517	51.75060 ppb	98
36) Hexachlorobutadiene	6.70	225	314356	52.16765 ppb	99
37) Caprolactum	7.03	55	141607	49.38964 ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	455719	50.64752	ppb		99
39)	2-Methylnaphthalene	7.35	142	1054475	54.56257	ppb		100
40)	1-Methylnaphthalene	7.46	142	984333	49.18170	ppb		100
42)	Hexachlorocyclopentadiene	7.54	237	370560	49.57797	ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	527503	48.74136	ppb		100
44)	2,4,6-Trichlorophenol	7.66	196	356488	49.62173	ppb		96
45)	2,4,5-Trichlorophenol	7.71	196	384178	51.04434	ppb		99
47)	1,1'-Biphenyl	7.89	154	1260850	48.86920	ppb		99
48)	2-Chloronaphthalene	7.91	162	1025569	50.25867	ppb		99
49)	2-Nitroaniline	8.02	65	262797	51.62014	ppb		76
50)	Dimethyl phthalate	8.25	163	1175916	48.16279	ppb		99
51)	2,6-DNT	8.31	165	286088	52.74354	ppb		98
52)	Acenaphthylene	8.38	152	1529580	48.86112	ppb		99
53)	3-Nitroaniline	8.03	138	349489	51.98079	ppb		95
54)	Acenaphthene	8.58	154	1040624	50.02546	ppb		99
55)	2,4-Dinitrophenol	8.62	184	139500	50.13590	ppb		98
56)	4-Nitrophenol	8.70	65	197361	52.10820	ppb		93
57)	Dibenzofuran	8.79	168	1448178	48.87263	ppb		99
58)	2,4-DNT	8.78	165	403252	52.25266	ppb		98
59)	2,3,4,6-Tetrachlorophenol	8.93	232	325882	51.84686	ppb		99
60)	Diethyl phthalate	9.08	149	1138241	47.73036	ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	657483	47.81467	ppb		97
62)	Fluorene	9.19	166	1191367	48.60649	ppb		99
63)	4-Nitroaniline	8.50	138	281204	49.97047	ppb		95
66)	4,6-Dinitro-2-methylphenol	9.25	198	264110	52.42572	ppb		91
67)	Diphenyl amine	9.34	169	1961662	100.07437	ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1961662	100.07437	ppb		99
69)	1,2-Diphenylhydrazine	9.38	77	993810	52.36878	ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	380543	49.07901	ppb	#	81
71)	Hexachlorobenzene	9.83	284	417763	50.13304	ppb		95
72)	Atrazine	9.97	200	184523	25.61674	ppb		98
73)	Pentachlorophenol	10.05	266	296210	52.24180	ppb		99
74)	Phenanthrene	10.31	178	1736593	49.39457	ppb		99
75)	Anthracene	10.37	178	1823356	49.90120	ppb		100
76)	Carbazol	10.55	167	1636229	49.78363	ppb		100
77)	Di-n-butylphthalate	10.99	149	1955769	49.17204	ppb		100
78)	Fluoranthene	11.69	202	2019048	49.66528	ppb		99
80)	Benzidine	11.85	184	694739	58.38120	ppb	#	96
81)	Pyrene	11.95	202	2104725	49.69360	ppb		100
83)	Butyl benzylphthalate	12.73	149	889142	50.95072	ppb	#	77
84)	3,3'-Dichlorobenzidine	13.33	252	756835	53.96905	ppb		100
85)	Benz (a) anthracene	13.36	228	2092220	49.05758	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.42	149	1247309	50.96766	ppb		99
87)	Chrysene	13.39	228	2011174	49.00363	ppb		99
88)	Di-n-octylphthalate	14.14	149	2096116	52.30853	ppb		99
90)	Benzo (b) fluoranthene	14.58	252	2096677	52.20793	ppb		99
91)	Benzo (k) fluoranthene	14.62	252	1962159	50.43806	ppb		100
92)	Benzo (a) pyrene	15.00	252	1893209	51.55680	ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.75	276	2028571	48.92899	ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1855439	51.37332	ppb		99
95)	Benzo (g,h,i) perylene	17.25	276	1818788	50.49837	ppb		99

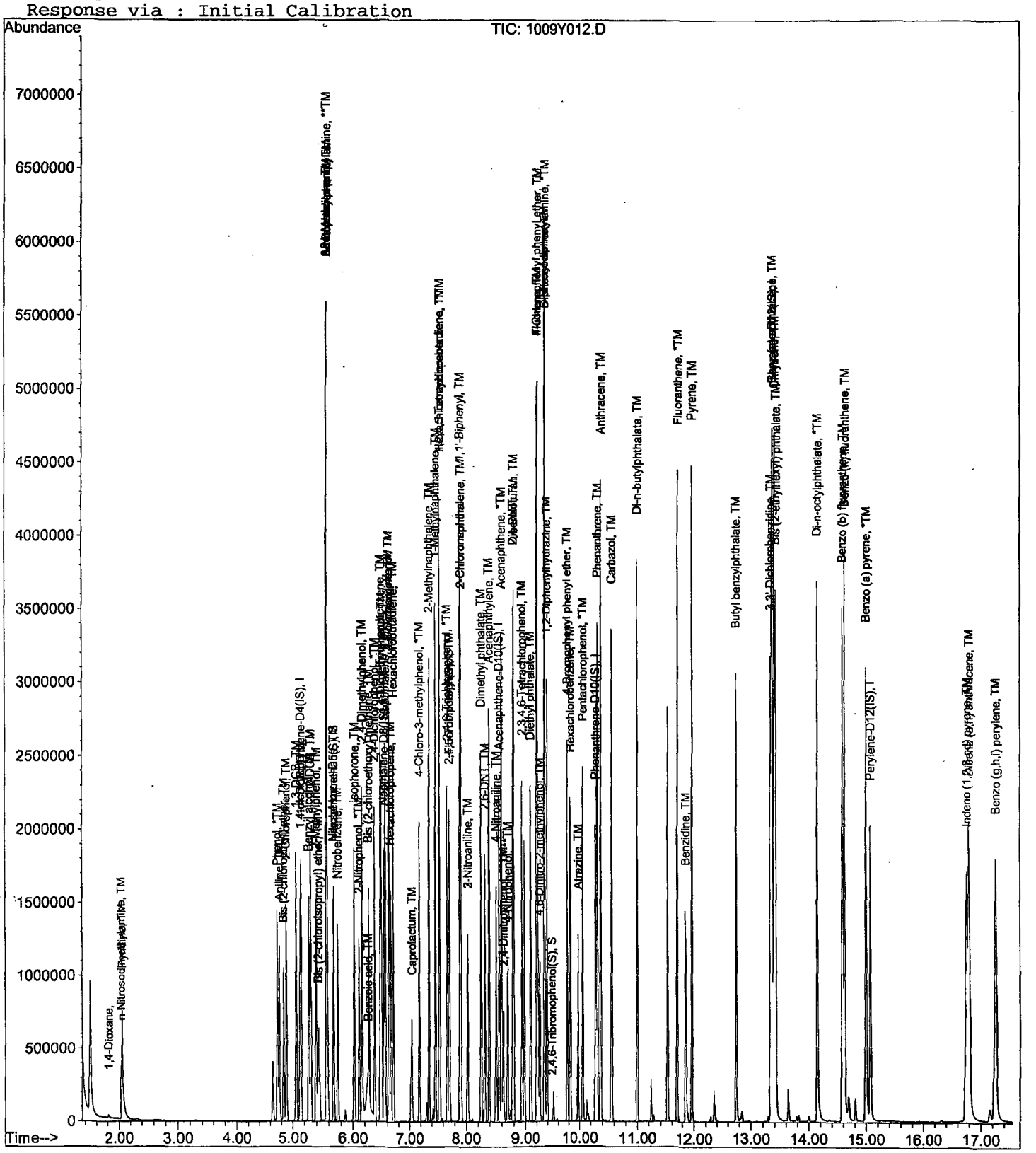
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

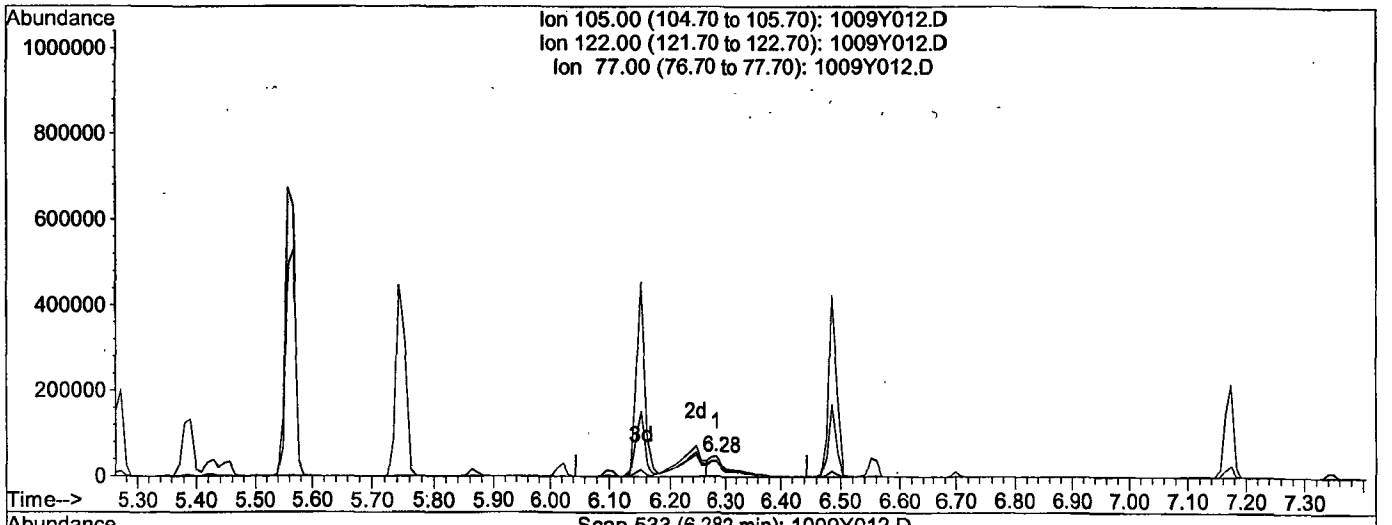
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration

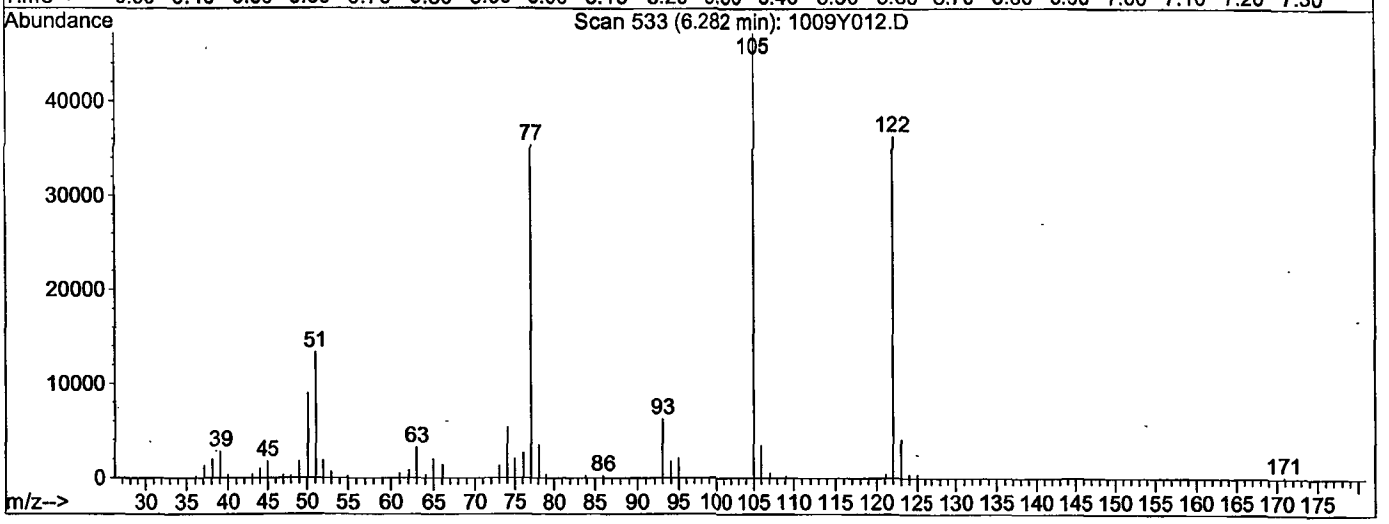


Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 15:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y012.D

(27) Benzoic acid (TM)

6.28min 25.1987ppb

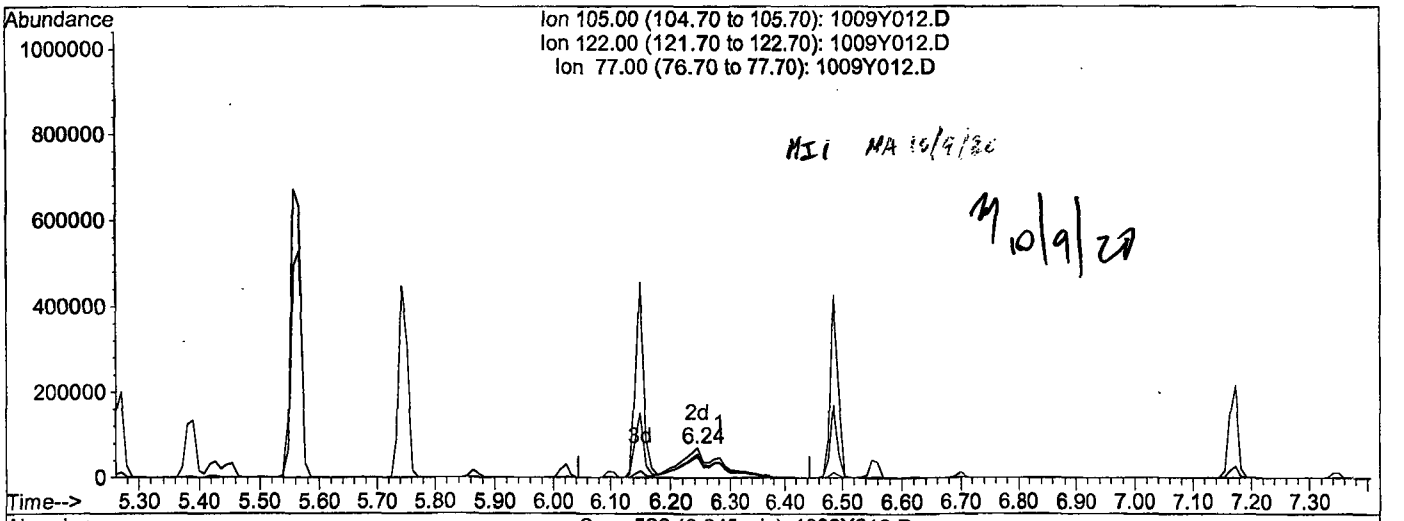
response 119810

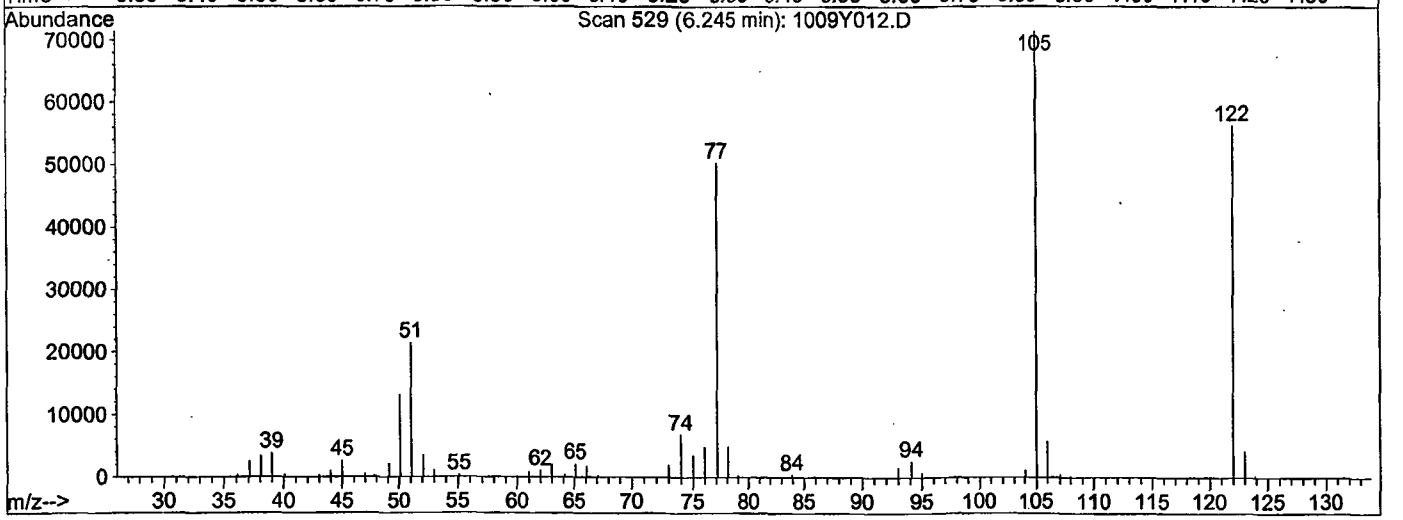
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	76.27
77.00	70.50	74.55
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 15:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y012.D

(27) Benzoic acid (TM)

6.24min 54.5658ppb m

response 327995

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	78.87
77.00	70.50	70.48
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/19/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y137.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3248	9.5		
3	TM	n-Nitrosodimethylamine	0.5546	0.6030	8.7	TM	
4	TM	Pyridine	1.551	1.590	2.5	TM	
5	S	2-Fluorophenol (S)	1.550	1.604	3.4	S	
6	S	Phenol-D6 (S)	1.954	2.079	6.4	S	
7	*TM	Phenol	2.239	2.489	11	*TM	
8	TM	Aniline	1.755	1.665	5.1	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9852	8.9	TM	
10	TM	2-Chlorophenol	1.864	2.018	8.3	TM	
11	TM	1,3-DCB	1.992	2.083	4.6	TM	
12	*TM	1,4-DCB	2.033	2.150	5.8	*TM	
13	TM	Benzyl alcohol	1.042	1.141	9.5	TM	
14	TM	1,2-DCB	1.910	2.025	6.0	TM	
15	TM	2-Methylphenol	1.379	1.517	10.0	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.329	12	TM	
17	TM	Acetophenone	2.406	2.547	5.9	TM	
18	TM	3&4-Methylphenol	1.915	2.086	8.9	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.288	6.3	**TM	
20	TM	Hexachloroethane	0.7164	0.7283	1.7	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4182	0.05	S	
23	TM	Nitrobenzene	0.4309	0.4403	2.2	TM	
24	TM	Isophorone	0.7379	0.7750	5.0	TM	
25	*TM	2-Nitrophenol	0.2595	0.2824	8.8	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4337	7.0	TM	
27	TML	Benzoic acid	0.2281	0.2789	22	TML	2.5
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.5040	7.6	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4317	7.0	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4710	4.8	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5710	0.83	TM	
32	TM	Naphthalene	1.312	1.396	6.4	TM	
33	TM	4-Chloroaniline	0.5518	0.5598	1.4	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.4149	4.4	TM	
35	TM	Hexachloropropene	0.3271	0.3239	0.96	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2763	0.11	*TM	
37	TM	Caprolactum	0.1313	0.1451	10	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4276	3.7	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.9361	5.7	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9998	9.1	TM	
		Average			6.4		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/19/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y137.D

		Compound	MEAN	CCRF	%D		%Drift	
41	I	Acenaphthene-D10(IS)	ISTD			I		
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5866	5.2	**TM		
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8375	3.8	TM		
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5598	4.5	*TM		
45	TM	2,4,5-Trichlorophenol	0.5612	0.5804	3.4	TM		
46	S	2-Fluorobiphenyl(S)	1.686	1.694	0.48	S		
47	TM	1,1'-Biphenyl	1.924	2.037	5.9	TM		
48	TM	2-Chloronaphthalene	1.522	1.599	5.1	TM		
49	TM	2-Nitroaniline	0.3796	0.3941	3.8	TM		
50	TM	Dimethyl phthalate	1.821	1.927	5.8	TM		
51	TM	2,6-DNT	0.4045	0.4439	9.7	TM		
52	TM	Acenaphthylene	2.334	2.464	5.6	TM		
53	TM	3-Nitroaniline	0.5014	0.5554	11	TM		
54	*TM	Acenaphthene	1.551	1.571	1.3	*TM		
55	**TML	2,4-Dinitrophenol	0.1987	0.1938	2.4	**TML	4.3	
56	**TM	4-Nitrophenol	0.2824	0.2659	5.8	**TM		
57	TM	Dibenzofuran	2.210	2.299	4.1	TM		
58	TM	2,4-DNT	0.5755	0.6273	9.0	TM		
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4616	1.5	TM		
60	TM	Diethyl phthalate	1.778	1.803	1.4	TM		
61	TM	4-Chlorophenyl phenyl ether	1.025	1.055	2.9	TM		
62	TM	Fluorene	1.828	1.918	4.9	TM		
63	TM	4-Nitroaniline	0.4196	0.4391	4.6	TM		
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2771	4.2	S		
65	I	Phenanthrene-D10(IS)	ISTD			I		
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2001	2.8	TM		
67	TM	Diphenyl amine	0.7572	0.7826	3.3	TM		
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7826	3.3	*TM		
69	TM	1,2-Diphenylhydrazine	0.7331	0.7348	0.24	TM		
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3157	5.4	TM		
71	TM	Hexachlorobenzene	0.3219	0.3350	4.1	TM		
72	TM	Atrazine	0.2783	0.2145	23	TM		*NT
73	*TM	Pentachlorophenol	0.2190	0.1744	20	*TM		
74	TM	Phenanthrene	1.358	1.398	2.9	TM		
75	TM	Anthracene	1.412	1.510	7.0	TM		
76	TM	Carbazol	1.270	1.318	3.8	TM		
77	TM	Di-n-butylphthalate	1.536	1.609	4.7	TM		
78	*TM	Fluoranthene	1.570	1.633	4.0	*TM		
79	I	Chrysene-D12(IS)	ISTD			I		
80	TM	Benzidine	0.4483	0.3056	32	TM		*NT
		Average			6.0			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/19/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y137.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Pyrene	1.596	1.688	5.8	TM	
82	S	Terphenyl-D14(S)	1.153	1.171	1.6	S	
83	TM	Butyl benzylphthalate	0.6574	0.7091	7.9	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6539	24	TM	*
85	TM	Benz (a) anthracene	1.607	1.677	4.4	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9788	6.2	TM	
87	TM	Chrysene	1.546	1.624	5.0	TM	
88	*TM	Di-n-octylphthalate	1.510	1.675	11	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.632	5.2	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.559	3.7	TM	
92	*TM	Benzo (a) pyrene	1.419	1.535	8.2	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.738	8.5	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.537	10	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.499	7.7	TM	
96							
97							
98							
99							
100							
101							
102							
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110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			7.8		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y137.D Vial: 37
Acq On : 19 Oct 20 15:36 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:36 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	158988	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.54	136	658718	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	403950	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	787927	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	804587	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	787125	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.68	112	637441	103.44574 ppb	0.01
Spiked Amount 200.000			Recovery =	51.723%	
6) Phenol-D6 (S)	4.73	99	826429	106.38355 ppb	0.01
Spiked Amount 200.000			Recovery =	53.192%	
22) Nitrobenzene-D5(S)	5.73	82	344352	49.97623 ppb	0.00
Spiked Amount 100.000			Recovery =	49.976%	
46) 2-Fluorobiphenyl(S)	7.78	172	855371	50.24071 ppb	0.00
Spiked Amount 100.000			Recovery =	50.241%	
64) 2,4,6-Tribromophenol(S)	9.47	330	279842	95.76356 ppb	0.00
Spiked Amount 200.000			Recovery =	47.882%	
82) Terphenyl-D14(S)	12.15	244	1177627	50.77628 ppb	0.00
Spiked Amount 100.000			Recovery =	50.776%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	6454	4.52617	63
3) n-Nitrosodimethylamine	2.04	42	119829	54.36218 ppb	85
4) Pyridine	2.06	79	315992	51.25698 ppb	96
7) Phenol	4.73	94	494612	55.58860 ppb	96
8) Aniline	4.76	93	330880	47.43781 ppb	97
9) Bis (2-chloroethyl) ether	4.84	63	195801	54.46063 ppb	94
10) 2-Chlorophenol	4.89	128	400986	54.13666 ppb	99
11) 1,3-DCB	5.06	146	414064	52.30546 ppb	98
12) 1,4-DCB	5.13	146	427372	52.89154 ppb	97
13) Benzyl alcohol	5.27	108	226752	54.74489 ppb	90
14) 1,2-DCB	5.30	146	402523	53.00844 ppb	97
15) 2-Methylphenol	5.39	107	301509	54.99966 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	264091	56.02362 ppb	94
17) Acetophenone	5.56	105	506130	52.92892 ppb	88
18) 3&4-Methylphenol	5.57	107	829034	108.90107 ppb	98
19) n-Nitrosodi-n-propylamine	5.57	70	256017	53.15232 ppb	96
20) Hexachloroethane	5.67	117	144730	50.82953 ppb	86
23) Nitrobenzene	5.75	77	362540	51.09408 ppb	93
24) Isophorone	6.02	82	638142	52.51722 ppb	96
25) 2-Nitrophenol	6.10	139	232498	54.41317 ppb #	88
26) 2,4-Dimethylphenol	6.15	122	357112	53.50005 ppb	98
27) Benzoic acid	6.28	105	229627	51.24063 ppb	97
28) Bis (2-chloroethoxy) metha	6.27	93	414987	53.79273 ppb	98
29) 2,4-Dichlorophenol	6.38	162	355445	53.52429 ppb	94
30) 1,2,4-Trichlorobenzene	6.47	180	387781	52.39769 ppb	95
31) 3,4-Dimethylphenol	6.50	107	470131	50.41396 ppb	92
32) Naphthalene	6.55	128	1149149	53.20186 ppb	99
33) 4-Chloroaniline	6.62	127	460930	50.72121 ppb	98
34) 2,6-Dichlorophenol	6.63	162	341664	52.20590 ppb	99
35) Hexachloropropene	6.66	213	266706	49.51853 ppb	98
36) Hexachlorobutadiene	6.70	225	227518	50.05521 ppb	99
37) Caprolactum	7.05	55	119469	55.24085 ppb	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y137.D Vial: 37
Acq On : 19 Oct 20 15:36 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:36 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38) 4-Chloro-3-methylphenol	7.19	107	352066	51.87273 ppb		94
39) 2-Methylnaphthalene	7.34	142	770768	52.87327 ppb		98
40) 1-Methylnaphthalene	7.45	142	823264	54.53240 ppb		97
42) Hexachlorocyclopentadiene	7.53	237	296192	52.62197 ppb		99
43) 1,2,4,5-Tetrachlorobenzene	7.54	216	422862	51.88418 ppb		97
44) 2,4,6-Trichlorophenol	7.68	196	282688	52.25140 ppb		97
45) 2,4,5-Trichlorophenol	7.72	196	293060	51.70532 ppb		97
47) 1,1'-Biphenyl	7.89	154	1028462	52.93265 ppb		97
48) 2-Chloronaphthalene	7.91	162	807297	52.53431 ppb		96
49) 2-Nitroaniline	8.03	65	199002	51.90627 ppb		96
50) Dimethyl phthalate	8.25	163	972906	52.91390 ppb		99
51) 2,6-DNT	8.32	165	224151	54.87492 ppb		83
52) Acenaphthylene	8.38	152	1244195	52.77683 ppb		99
53) 3-Nitroaniline	8.03	138	280423	55.38429 ppb		95
54) Acenaphthene	8.59	154	793069	50.62579 ppb		99
55) 2,4-Dinitrophenol	8.62	184	97870	47.83155 ppb		94
56) 4-Nitrophenol	8.71	65	134279	47.07783 ppb		83
57) Dibenzofuran	8.79	168	1161059	52.03093 ppb		92
58) 2,4-DNT	8.78	165	316724	54.49748 ppb		87
59) 2,3,4,6-Tetrachlorophenol	8.93	232	233087	49.24291 ppb		97
60) Diethyl phthalate	9.08	149	910494	50.69921 ppb		99
61) 4-Chlorophenyl phenyl ethe	9.20	204	532629	51.43574 ppb		87
62) Fluorene	9.19	166	968525	52.47146 ppb		99
63) 4-Nitroaniline	8.50	138	221728	52.32100 ppb		98
66) 4,6-Dinitro-2-methylphenol	9.26	198	197041	51.39995 ppb	#	83
67) Diphenyl amine	9.34	169	1541573	103.34972 ppb		100
68) n-Nitrosodiphenylamine	9.34	169	1541573	103.34972 ppb		100
69) 1,2-Diphenylhydrazine	9.38	77	723735	50.11817 ppb		96
70) 4-Bromophenyl phenyl ether	9.77	248	310965	52.70479 ppb		94
71) Hexachlorobenzene	9.82	284	329930	52.03103 ppb	#	90
72) Atrazine	9.96	200	105628	19.27076 ppb		97
73) Pentachlorophenol	10.05	266	171805m	39.81995 ppb		99
74) Phenanthrene	10.30	178	1376880	51.46639 ppb		100
75) Anthracene	10.37	178	1487214	53.48839 ppb		99
76) Carbazol	10.56	167	1297901	51.89560 ppb		97
77) Di-n-butylphthalate	10.98	149	1584317	52.34669 ppb		99
78) Fluoranthene	11.69	202	1608658	52.00158 ppb	#	96
80) Benzidine	11.85	184	307395	34.08838 ppb	#	96
81) Pyrene	11.96	202	1697231	52.88157 ppb		99
83) Butyl benzylphthalate	12.74	149	713158	53.92911 ppb		98
84) 3,3'-Dichlorobenzidine	13.33	252	657696	61.89093 ppb		97
85) Benz (a) anthracene	13.35	228	1686775	52.19323 ppb		100
86) Bis (2-ethylhexyl) phthala	13.41	149	984363	53.08040 ppb		97
87) Chrysene	13.40	228	1633054	52.50944 ppb		100
88) Di-n-octylphthalate	14.13	149	1685083	55.49282 ppb		98
90) Benzo (b) fluoranthene	14.57	252	1605858	52.58116 ppb		98
91) Benzo (k) fluoranthene	14.61	252	1534358	51.86435 ppb		97
92) Benzo (a) pyrene	14.99	252	1510729	54.09935 ppb		98
93) Indeno (1,2,3-cd) pyrene	16.75	276	1710507	54.25240 ppb		96
94) Dibenz (a,h) anthracene	16.79	278	1512533	55.06985 ppb		97
95) Benzo (g,h,i) perylene	17.25	276	1474532	53.83535 ppb		97

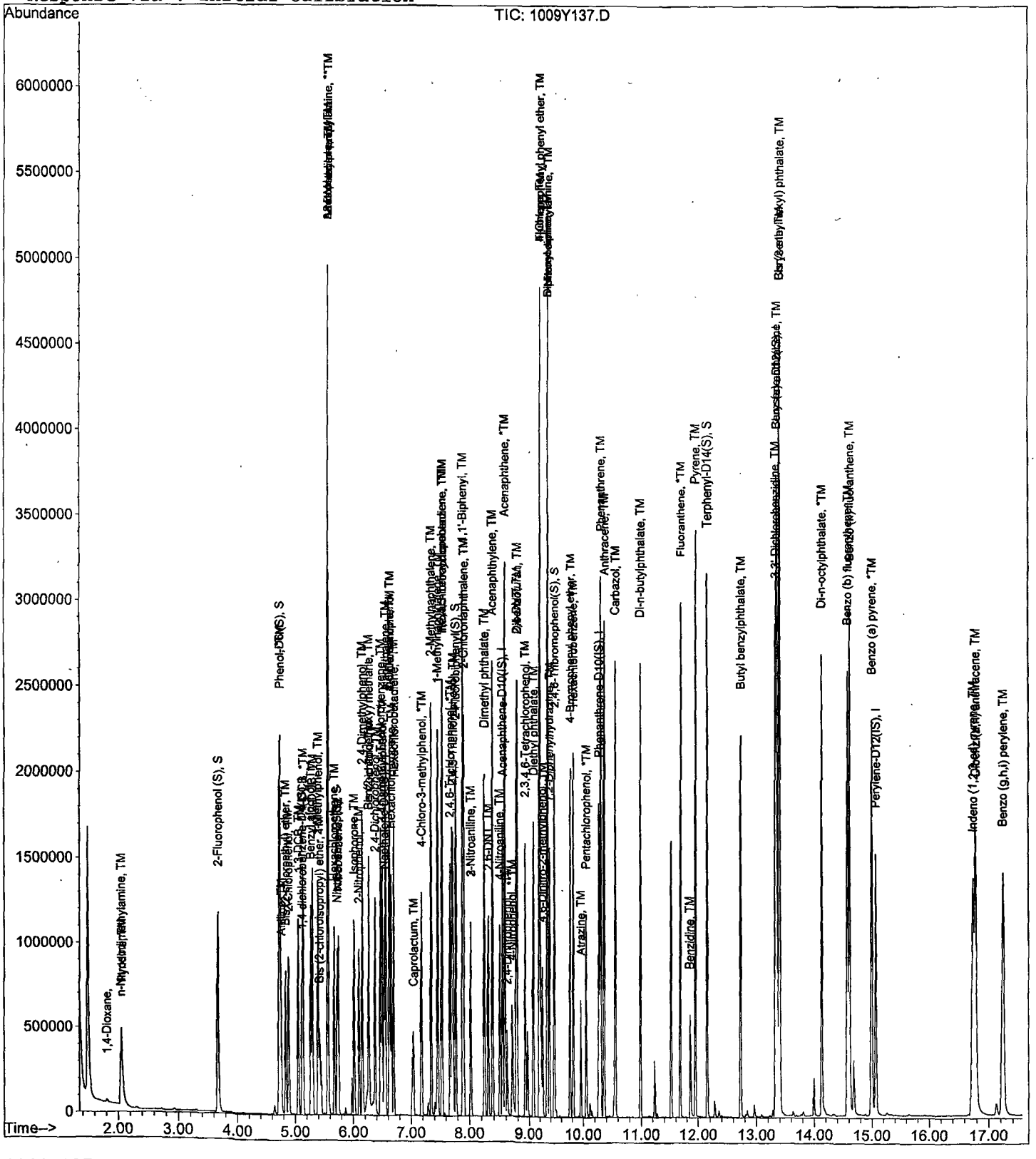
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y137.D Vial: 37
Acq On : 19 Oct 20 15:36 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:36 2020 Quant Results File: Y1009.RES

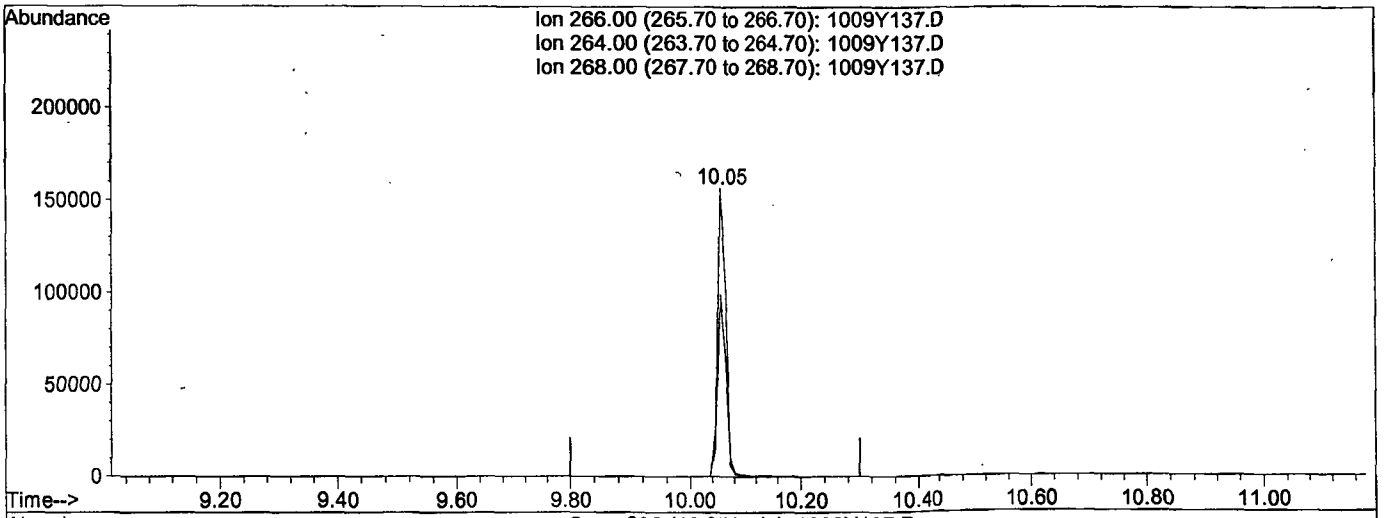
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration

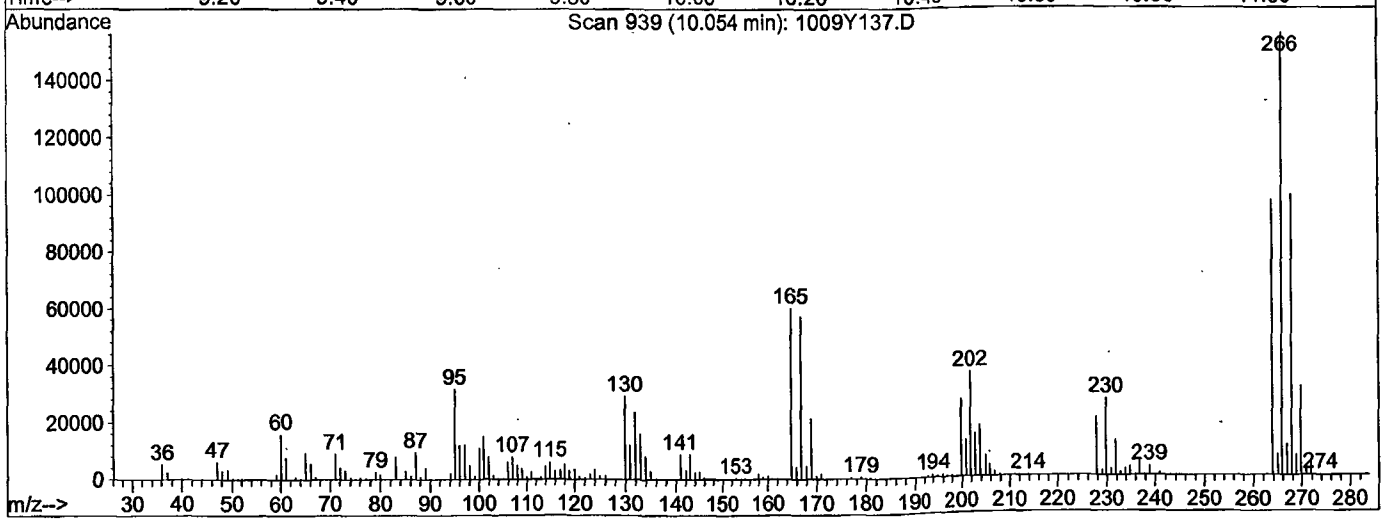


Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y137.D Vial: 37
Acq On : 19 Oct 20 15:36 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 19 15:34 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y137.D

(73) Pentachlorophenol (*TM)

10.05min 39.5040ppb

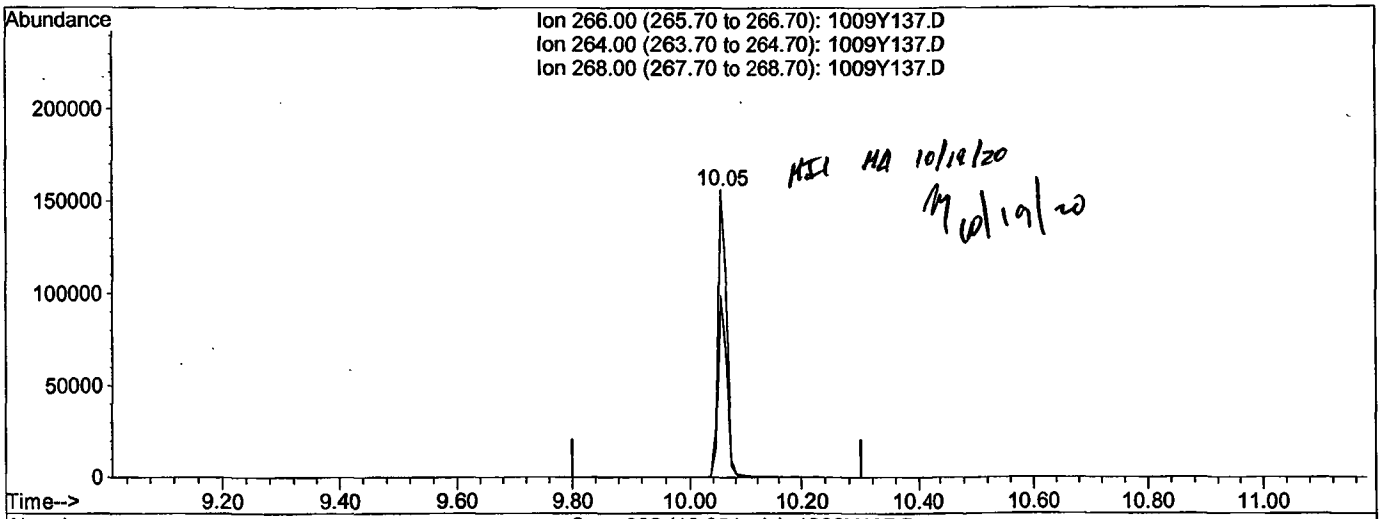
response 170442

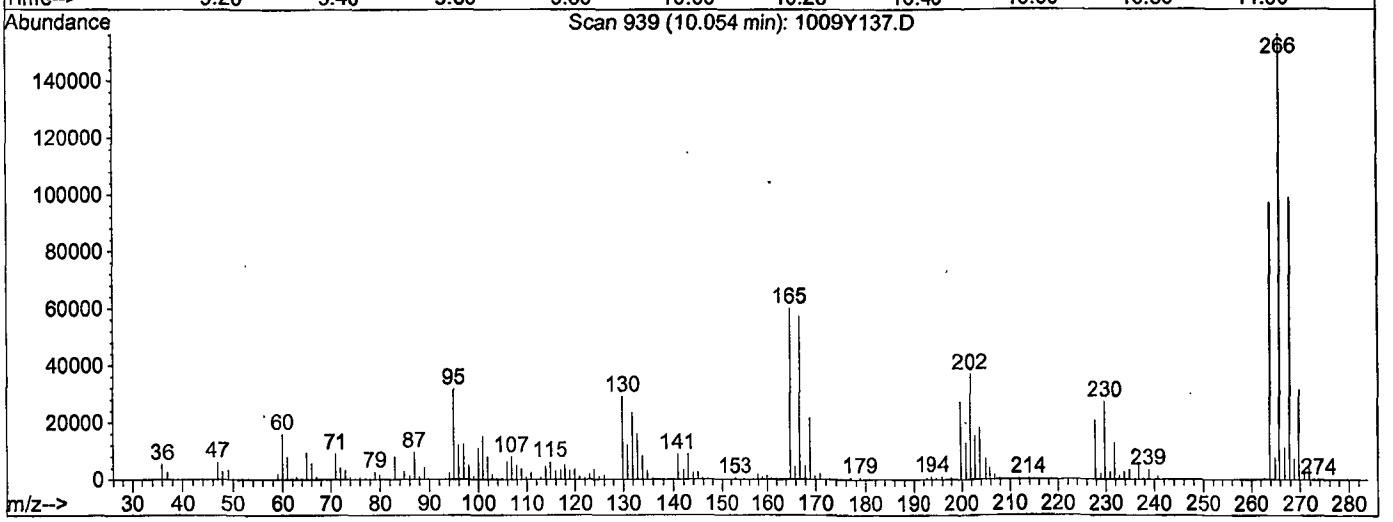
Ion	Exp%	Act%
266.00	100	100
264.00	64.30	62.31
268.00	63.60	63.44
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y137.D Vial: 37
Acq On : 19 Oct 20 15:36 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 19 15:36 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y137.D

(73) Pentachlorophenol (*TM)

10.05min 39.8200ppb m

response 171805

Ion	Exp%	Act%
266.00	100	100
264.00	64.30	62.31
268.00	63.60	63.44
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/19/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y156.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.4110	15		
3	TM	n-Nitrosodimethylamine	0.5546	0.5842	5.3	TM	
4	TM	Pyridine	1.551	1.696	9.3	TM	
5	S	2-Fluorophenol (S)	1.550	1.587	2.4	S	
6	S	Phenol-D6 (S)	1.954	2.330	19	S	
7	*TM	Phenol	2.239	2.656	19	*TM	
8	TM	Aniline	1.755	1.717	2.2	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9120	0.82	TM	
10	TM	2-Chlorophenol	1.864	2.004	7.5	TM	
11	TM	1,3-DCB	1.992	1.987	0.23	TM	
12	*TM	1,4-DCB	2.033	2.025	0.38	*TM	
13	TM	Benzyl alcohol	1.042	1.395	34	TM	
14	TM	1,2-DCB	1.910	1.897	0.72	TM	
15	TM	2-Methylphenol	1.379	1.746	27	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.279	7.8	TM	
17	TM	Acetophenone	2.406	2.878	20	TM	
18	TM	3&4-Methylphenol	1.915	2.637	38	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.680	39	**TM	
20	TM	Hexachloroethane	0.7164	0.6970	2.7	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4226	1.0	S	
23	TM	Nitrobenzene	0.4309	0.4308	0.01	TM	
24	TM	Isophorone	0.7379	0.9876	34	TM	
25	*TM	2-Nitrophenol	0.2595	0.2931	13	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.5190	28	TM	
27	TML	Benzoic acid	0.2281	0.3523	54	TML	25
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.5755	23	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.5186	29	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4323	3.8	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.7632	35	TM	
32	TM	Naphthalene	1.312	1.343	2.4	TM	
33	TM	4-Chloroaniline	0.5518	0.6480	17	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.4956	25	TM	
35	TM	Hexachloropropene	0.3271	0.2691	18	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2480	10	*TM	
37	TM	Caprolactum	0.1313	0.1969	50	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.5954	44	*TM	
39	TM	2-Methylnaphthalene	0.8852	1.097	24	TM	
40	TM	1-Methylnaphthalene	0.9167	1.174	28	TM	
		Average			18.1		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/19/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y156.D

		Compound	MEAN	CCRF	%D		%Drift	
41	I	Acenaphthene-D10(IS)	ISTD			I		
42	**TM	Hexachlorocyclopentadiene	0.5574	0.2584	54	**TM		*NT
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.7312	9.4	TM		
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5553	3.7	*TM		
45	TM	2,4,5-Trichlorophenol	0.5612	0.5971	6.4	TM		
46	S	2-Fluorobiphenyl(S)	1.686	1.670	0.96	S		
47	TM	1,1'-Biphenyl	1.924	1.913	0.57	TM		
48	TM	2-Chloronaphthalene	1.522	1.472	3.3	TM		
49	TM	2-Nitroaniline	0.3796	0.3926	3.4	TM		
50	TM	Dimethyl phthalate	1.821	1.925	5.8	TM		
51	TM	2,6-DNT	0.4045	0.4505	11	TM		
52	TM	Acenaphthylene	2.334	2.344	0.43	TM		
53	TM	3-Nitroaniline	0.5014	0.5514	10.0	TM		
54	*TM	Acenaphthene	1.551	1.542	0.57	*TM		
55	**TML	2,4-Dinitrophenol	0.1987	0.2059	3.6	**TML	0.42	
56	**TM	4-Nitrophenol	0.2824	0.2804	0.71	**TM		
57	TM	Dibenzofuran	2.210	2.268	2.7	TM		
58	TM	2,4-DNT	0.5755	0.6230	8.3	TM		
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4852	3.5	TM		
60	TM	Diethyl phthalate	1.778	1.869	5.1	TM		
61	TM	4-Chlorophenyl phenyl ether	1.025	1.061	3.4	TM		
62	TM	Fluorene	1.828	1.955	7.0	TM		
63	TM	4-Nitroaniline	0.4196	0.4590	9.4	TM		
64	S	2,4,6-Tribromophenol(S)	0.2894	0.3127	8.1	S		
65	I	Phenanthrene-D10(IS)	ISTD			I		
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.1883	3.2	TM		
67	TM	Diphenyl amine	0.7572	0.7725	2.0	TM		
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7725	2.0	*TM		
69	TM	1,2-Diphenylhydrazine	0.7331	0.7182	2.0	TM		
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3101	3.5	TM		
71	TM	Hexachlorobenzene	0.3219	0.3350	4.1	TM		
72	TM	Atrazine	0.2783	0.1855	33	TM		
73	*TM	Pentachlorophenol	0.2190	0.1839	16	*TM		
74	TM	Phenanthrene	1.358	1.401	3.2	TM		
75	TM	Anthracene	1.412	1.416	0.28	TM		
76	TM	Carbazol	1.270	1.307	2.9	TM		
77	TM	Di-n-butylphthalate	1.536	1.602	4.3	TM		
78	*TM	Fluoranthene	1.570	1.620	3.2	*TM		
79	I	Chrysene-D12(IS)	ISTD			I		
80	TM	Benzidine	0.4483	0.2052	54	TM		*NT
		Average			8.0			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/19/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y156.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Pyrene	1.596	1.619	1.5	TM	
82	S	Terphenyl-D14(S)	1.153	1.173	1.7	S	
83	TM	Butyl benzylphthalate	0.6574	0.7060	7.4	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6079	15	TM	
85	TM	Benz (a) anthracene	1.607	1.644	2.3	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9677	5.0	TM	
87	TM	Chrysene	1.546	1.504	2.7	TM	
88	*TM	Di-n-octylphthalate	1.510	1.674	11	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.571	1.2	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.607	6.9	TM	
92	*TM	Benzo (a) pyrene	1.419	1.500	5.7	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.709	6.7	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.522	9.0	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.462	5.0	TM	
96							
97							
98							
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114							
115							
116							
117							
118							
119							
120							
		Average			5.8		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y156.D Vial: 56
Acq On : 19 Oct 20 23:46 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (4) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 9:12 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	115080	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	513734	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	429540	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	889221	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	910127	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	888870	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	456532	102.35482 ppb	0.01
Spiked Amount 200.000			Recovery	= 51.177%	
6) Phenol-D6 (S)	4.72	99	670433	119.23089 ppb	0.01
Spiked Amount 200.000			Recovery	= 59.616%	
22) Nitrobenzene-D5(S)	5.72	82	271411	50.50676 ppb	0.00
Spiked Amount 100.000			Recovery	= 50.507%	
46) 2-Fluorobiphenyl(S)	7.78	172	896519	49.52047 ppb	0.00
Spiked Amount 100.000			Recovery	= 49.520%	
64) 2,4,6-Tribromophenol(S)	9.48	330	335821	108.07351 ppb	0.00
Spiked Amount 200.000			Recovery	= 54.037%	
82) Terphenyl-D14(S)	12.15	244	1334149	50.85440 ppb	0.00
Spiked Amount 100.000			Recovery	= 50.854%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	5912	5.72798	88
3) n-Nitrosodimethylamine	2.04	42	84031	52.66705 ppb	88
4) Pyridine	2.06	79	243928	54.66422 ppb	99
7) Phenol	4.73	94	382133	59.33352 ppb	96
8) Aniline	4.76	93	246976	48.91853 ppb	97
9) Bis (2-chloroethyl) ether	4.83	63	131184	50.40959 ppb	93
10) 2-Chlorophenol	4.89	128	288244	53.76344 ppb	99
11) 1,3-DCB	5.06	146	285850	49.88641 ppb	99
12) 1,4-DCB	5.14	146	291322	49.81016 ppb	99
13) Benzyl alcohol	5.27	108	200601	66.90985 ppb	96
14) 1,2-DCB	5.30	146	272845	49.64035 ppb	97
15) 2-Methylphenol	5.39	107	251126	63.28720 ppb	97
16) Bis (2-chloroisopropyl) et	5.42	45	183915	53.90130 ppb	92
17) Acetophenone	5.56	105	413959	59.80711 ppb	91
18) 3&4-Methylphenol	5.57	107	758571	137.66404 ppb	97
19) n-Nitrosodi-n-propylamine	5.57	70	241620	69.30281 ppb	94
20) Hexachloroethane	5.67	117	100267	48.64969 ppb	78
23) Nitrobenzene	5.74	77	276652	49.99306 ppb	91
24) Isophorone	6.02	82	634205	66.92298 ppb	94
25) 2-Nitrophenol	6.11	139	188237	56.48732 ppb	92
26) 2,4-Dimethylphenol	6.15	122	333285	64.02163 ppb	97
27) Benzoic acid	6.27	105	226204	62.53894 ppb	93
28) Bis (2-chloroethoxy) metha	6.26	93	369557	61.42310 ppb	99
29) 2,4-Dichlorophenol	6.37	162	333031	64.30199 ppb	96
30) 1,2,4-Trichlorobenzene	6.47	180	277592	48.09432 ppb	97
31) 3,4-Dimethylphenol	6.50	107	490120	67.39002 ppb	92
32) Naphthalene	6.55	128	862167	51.18033 ppb	99
33) 4-Chloroaniline	6.62	127	416132	58.71472 ppb	99
34) 2,6-Dichlorophenol	6.63	162	318273	62.35645 ppb	100
35) Hexachloropropene	6.65	213	172836	41.14626 ppb	98
36) Hexachlorobutadiene	6.70	225	159235	44.91933 ppb	97
37) Caprolactum	7.04	55	126419	74.95122 ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y156.D Vial: 56
Acq On : 19 Oct 20 23:46 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (4) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 9:12 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	382352	72.23366 ppb		99
39)	2-Methylnaphthalene	7.35	142	704663	61.98052 ppb		99
40)	1-Methylnaphthalene	7.46	142	753668	64.01132 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	138752	23.18233 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	392586	45.29968 ppb		99
44)	2,4,6-Trichlorophenol	7.67	196	298174	51.83037 ppb		98
45)	2,4,5-Trichlorophenol	7.72	196	320605	53.19527 ppb		96
47)	1,1'-Biphenyl	7.89	154	1027120	49.71421 ppb		99
48)	2-Chloronaphthalene	7.91	162	790257	48.36176 ppb		98
49)	2-Nitroaniline	8.03	65	210818	51.71232 ppb		94
50)	Dimethyl phthalate	8.25	163	1033825	52.87738 ppb		99
51)	2,6-DNT	8.31	165	241898	55.69157 ppb		94
52)	Acenaphthylene	8.38	152	1258760	50.21364 ppb		99
53)	3-Nitroaniline	8.03	138	296084	54.99357 ppb		96
54)	Acenaphthene	8.58	154	828144	49.71537 ppb		99
55)	2,4-Dinitrophenol	8.62	184	110559	49.78909 ppb		97
56)	4-Nitrophenol	8.70	65	150578	49.64710 ppb		83
57)	Dibenzofuran	8.79	168	1217964	51.32935 ppb		95
58)	2,4-DNT	8.78	165	334526	54.13141 ppb		94
59)	2,3,4,6-Tetrachlorophenol	8.94	232	260533	51.76216 ppb	#	90
60)	Diethyl phthalate	9.08	149	1003626	52.55572 ppb		99
61)	4-Chlorophenyl phenyl ethe	9.20	204	569416	51.71230 ppb		91
62)	Fluorene	9.19	166	1049726	53.48257 ppb		98
63)	4-Nitroaniline	8.51	138	246422	54.68384 ppb	#	66
66)	4,6-Dinitro-2-methylphenol	9.25	198	209327	48.38465 ppb		98
67)	Diphenyl amine	9.34	169	1717393	102.02137 ppb		100
68)	n-Nitrosodiphenylamine	9.34	169	1717393	102.02137 ppb		100
69)	1,2-Diphenylhydrazine	9.38	77	798329	48.98620 ppb	#	87
70)	4-Bromophenyl phenyl ether	9.76	248	344670	51.76287 ppb	#	89
71)	Hexachlorobenzene	9.83	284	372337	52.02991 ppb		92
72)	Atrazine	9.97	200	103118	16.66981 ppb		96
73)	Pentachlorophenol	10.06	266	204369	41.97167 ppb		98
74)	Phenanthrene	10.31	178	1557566	51.58820 ppb		98
75)	Anthracene	10.37	178	1573372	50.14108 ppb		99
76)	Carbazol	10.56	167	1452233	51.45192 ppb		94
77)	Di-n-butylphthalate	10.99	149	1780648	52.13165 ppb		98
78)	Fluoranthene	11.69	202	1800894	51.58426 ppb		98
80)	Benzidine	11.86	184	233399	22.88124 ppb	#	99
81)	Pyrene	11.95	202	1842050	50.73829 ppb		99
83)	Butyl benzylphthalate	12.73	149	803190	53.69413 ppb		96
84)	3,3'-Dichlorobenzidine	13.33	252	691584	57.53310 ppb		99
85)	Benz (a) anthracene	13.36	228	1870537	51.16752 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.40	149	1100897	52.48034 ppb	#	95
87)	Chrysene	13.39	228	1711336	48.64555 ppb		100
88)	Di-n-octylphthalate	14.14	149	1904452	55.44425 ppb	#	94
90)	Benzo (b) fluoranthene	14.58	252	1745420	50.60907 ppb		99
91)	Benzo (k) fluoranthene	14.61	252	1785172	53.43524 ppb		98
92)	Benzo (a) pyrene	15.00	252	1666823	52.85674 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1899239	53.34321 ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1690993	54.52005 ppb		97
95)	Benzo (g,h,i) perylene	17.25	276	1624289	52.51484 ppb		99

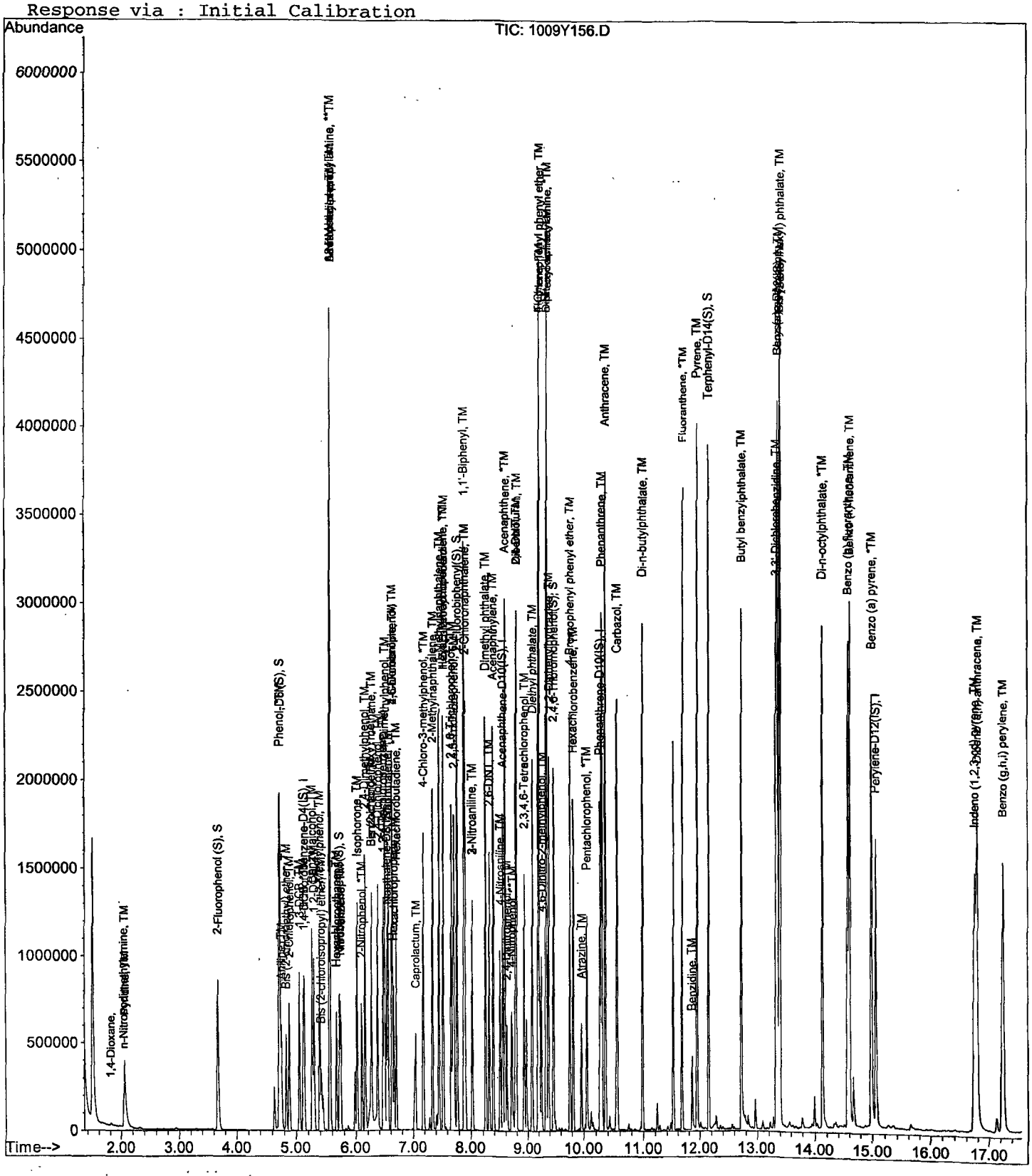
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y156.D Vial: 56
Acq On : 19 Oct 20 23:46 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (4) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 9:12 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/22/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y185.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3262	9.1		
3	TM	n-Nitrosodimethylamine	0.5546	0.5609	1.1	TM	
4	TM	Pyridine	1.551	1.666	7.4	TM	
5	S	2-Fluorophenol (S)	1.550	1.571	1.3	S	
6	S	Phenol-D6 (S)	1.954	1.996	2.1	S	
7	*TM	Phenol	2.239	2.301	2.8	*TM	
8	TM	Aniline	1.755	1.665	5.1	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9240	2.2	TM	
10	TM	2-Chlorophenol	1.864	1.889	1.4	TM	
11	TM	1,3-DCB	1.992	2.016	1.2	TM	
12	*TM	1,4-DCB	2.033	2.027	0.31	*TM	
13	TM	Benzyl alcohol	1.042	1.035	0.66	TM	
14	TM	1,2-DCB	1.910	1.903	0.39	TM	
15	TM	2-Methylphenol	1.379	1.393	0.98	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.249	5.4	TM	
17	TM	Acetophenone	2.406	2.357	2.0	TM	
18	TM	3&4-Methylphenol	1.915	1.923	0.39	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.176	3.0	**TM	
20	TM	Hexachloroethane	0.7164	0.6901	3.7	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4125	1.4	S	
23	TM	Nitrobenzene	0.4309	0.4152	3.6	TM	
24	TM	Isophorone	0.7379	0.7428	0.67	TM	
25	*TM	2-Nitrophenol	0.2595	0.2672	3.0	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.3984	1.7	TM	
27	TML	Benzoic acid	0.2281	0.2475	8.5	TML	7.2
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4753	1.5	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4055	0.55	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4631	3.1	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5572	1.6	TM	
32	TM	Naphthalene	1.312	1.318	0.48	TM	
33	TM	4-Chloroaniline	0.5518	0.5076	8.0	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.3925	1.2	TM	
35	TM	Hexachloropropene	0.3271	0.3133	4.2	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2656	3.8	*TM	
37	TM	Caprolactum	0.1313	0.1374	4.6	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4067	1.3	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.8966	1.3	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9271	1.1	TM	
		Average			2.7		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/22/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y185.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5844	4.9	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8011	0.74	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5380	0.43	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5747	2.4	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.711	1.5	S	
47	TM	1,1'-Biphenyl	1.924	1.959	1.8	TM	
48	TM	2-Chloronaphthalene	1.522	1.544	1.5	TM	
49	TM	2-Nitroaniline	0.3796	0.3680	3.1	TM	
50	TM	Dimethyl phthalate	1.821	1.814	0.37	TM	
51	TM	2,6-DNT	0.4045	0.4318	6.8	TM	
52	TM	Acenaphthylene	2.334	2.381	2.0	TM	
53	TM	3-Nitroaniline	0.5014	0.5274	5.2	TM	
54	*TM	Acenaphthene	1.551	1.495	3.6	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.1772	11	**TML	9.7
56	**TM	4-Nitrophenol	0.2824	0.2759	2.3	**TM	
57	TM	Dibenzofuran	2.210	2.202	0.33	TM	
58	TM	2,4-DNT	0.5755	0.5936	3.2	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4607	1.7	TM	
60	TM	Diethyl phthalate	1.778	1.729	2.8	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.018	0.70	TM	
62	TM	Fluorene	1.828	1.831	0.19	TM	
63	TM	4-Nitroaniline	0.4196	0.4402	4.9	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2921	0.95	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.1966	1.0	TM	
67	TM	Diphenyl amine	0.7572	0.7546	0.34	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7546	0.34	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7068	3.6	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3097	3.4	TM	
71	TM	Hexachlorobenzene	0.3219	0.3249	0.93	TM	
72	TM	Atrazine	0.2783	0.2766	0.61	TM	
73	*TM	Pentachlorophenol	0.2190	0.2095	4.3	*TM	
74	TM	Phenanthrene	1.358	1.363	0.39	TM	
75	TM	Anthracene	1.412	1.440	2.0	TM	
76	TM	Carbazol	1.270	1.289	1.5	TM	
77	TM	Di-n-butylphthalate	1.536	1.532	0.29	TM	
78	*TM	Fluoranthene	1.570	1.598	1.7	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.4598	2.6	TM	
		Average			2.3		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/22/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y185.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Pyrene	1.596	1.648	3.3	TM	
82	S	Terphenyl-D14(S)	1.153	1.207	4.7	S	
83	TM	Butyl benzylphthalate	0.6574	0.6845	4.1	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.5895	12	TM	
85	TM	Benz (a) anthracene	1.607	1.685	4.9	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9421	2.2	TM	
87	TM	Chrysene	1.546	1.560	0.89	TM	
88	*TM	Di-n-octylphthalate	1.510	1.649	9.2	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.561	0.61	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.506	0.20	TM	
92	*TM	Benzo (a) pyrene	1.419	1.483	4.5	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.680	4.8	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.506	7.9	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.457	4.7	TM	
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			4.6		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y185.D Vial: 85
Acq On : 22 Oct 20 11:30 Operator: MA
Sample : 50ug/mL 8270 7/22/20 96) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 22 11:33 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	150531	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	602905	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	362526	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	707314	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	720779	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	729609	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	591083	101.31167 ppb	0.01
Spiked Amount 200.000			Recovery =	50.656%	
6) Phenol-D6 (S)	4.72	99	751157	102.12641 ppb	0.01
Spiked Amount 200.000			Recovery =	51.063%	
22) Nitrobenzene-D5(S)	5.73	82	310896	49.29770 ppb	0.00
Spiked Amount 100.000			Recovery =	49.298%	
46) 2-Fluorobiphenyl(S)	7.78	172	775491	50.75355 ppb	0.00
Spiked Amount 100.000			Recovery =	50.754%	
64) 2,4,6-Tribromophenol(S)	9.47	330	264741	100.94785 ppb	0.00
Spiked Amount 200.000			Recovery =	50.474%	
82) Terphenyl-D14(S)	12.15	244	1087817	52.35762 ppb	0.00
Spiked Amount 100.000			Recovery =	52.358%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	6138m	4.54640	90
3) n-Nitrosodimethylamine	2.03	42	105534	50.56683 ppb	98
4) Pyridine	2.06	79	313418	53.69567 ppb	95
7) Phenol	4.74	94	433053	51.40442 ppb	99
8) Aniline	4.76	93	313216	47.42818 ppb	99
9) Bis (2-chloroethyl) ether	4.83	63	173862	51.07529 ppb	96
10) 2-Chlorophenol	4.89	128	355430	50.68211 ppb	99
11) 1,3-DCB	5.06	146	379289	50.60439 ppb	98
12) 1,4-DCB	5.13	146	381338	49.84581 ppb	98
13) Benzyl alcohol	5.27	108	194787	49.66962 ppb	96
14) 1,2-DCB	5.30	146	358064	49.80276 ppb	97
15) 2-Methylphenol	5.40	107	262074	50.49194 ppb	98
16) Bis (2-chloroisopropyl) et	5.42	45	235109	52.67751 ppb	94
17) Acetophenone	5.56	105	443432	48.97748 ppb	79
18) 3&4-Methylphenol	5.57	107	723569	100.38715 ppb	96
19) n-Nitrosodi-n-propylamine	5.57	70	221190	48.50174 ppb	96
20) Hexachloroethane	5.67	117	129858	48.16867 ppb	85
23) Nitrobenzene	5.74	77	312893	48.17937 ppb	93
24) Isophorone	6.02	82	559808	50.33547 ppb	94
25) 2-Nitrophenol	6.10	139	201336	51.48217 ppb #	88
26) 2,4-Dimethylphenol	6.15	122	300264	49.14775 ppb	98
27) Benzoic acid	6.25	105	186559m	46.41621 ppb	96
28) Bis (2-chloroethoxy) metha	6.26	93	358190	50.72863 ppb	98
29) 2,4-Dichlorophenol	6.38	162	305585	50.27605 ppb	96
30) 1,2,4-Trichlorobenzene	6.47	180	349028	51.52720 ppb	98
31) 3,4-Dimethylphenol	6.50	107	419925	49.19878 ppb	94
32) Naphthalene	6.55	128	993192	50.23823 ppb	99
33) 4-Chloroaniline	6.62	127	382540	45.99199 ppb	98
34) 2,6-Dichlorophenol	6.63	162	295781	49.37888 ppb	99
35) Hexachloropropene	6.65	213	236102	47.89446 ppb	99
36) Hexachlorobutadiene	6.70	225	200143	48.10880 ppb	99
37) Caprolactum	7.04	55	103519	52.29689 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y185.D Vial: 85
Acq On : 22 Oct 20 11:30 Operator: MA
Sample : 50ug/mL 8270 7/22/20 96) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 22 11:33 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	306524	49.34352 ppb		97
39) 2-Methylnaphthalene	7.34	142	675712	50.64363 ppb		100
40) 1-Methylnaphthalene	7.46	142	698715	50.56689 ppb		100
42) Hexachlorocyclopentadiene	7.53	237	264832	52.42672 ppb		98
43) 1,2,4,5-Tetrachlorobenzene	7.54	216	363003	49.62893 ppb		98
44) 2,4,6-Trichlorophenol	7.67	196	243803	50.21322 ppb		97
45) 2,4,5-Trichlorophenol	7.72	196	260444	51.20136 ppb		97
47) 1,1'-Biphenyl	7.89	154	887856	50.91742 ppb		97
48) 2-Chloronaphthalene	7.91	162	699639	50.73085 ppb		97
49) 2-Nitroaniline	8.03	65	166777	48.47156 ppb		99
50) Dimethyl phthalate	8.25	163	821973	49.81326 ppb		98
51) 2,6-DNT	8.32	165	195689	53.38117 ppb		83
52) Acenaphthylene	8.38	152	1078908	50.99501 ppb		99
53) 3-Nitroaniline	8.03	138	238978	52.59196 ppb		98
54) Acenaphthene	8.58	154	677481	48.18883 ppb		100
55) 2,4-Dinitrophenol	8.62	184	80280	45.13158 ppb		96
56) 4-Nitrophenol	8.72	65	125014m	48.83773 ppb		90
57) Dibenzofuran	8.79	168	997999	49.83402 ppb		92
58) 2,4-DNT	8.78	165	269010	51.57655 ppb		91
59) 2,3,4,6-Tetrachlorophenol	8.94	232	208747	49.13991 ppb	#	89
60) Diethyl phthalate	9.07	149	783589	48.61842 ppb		97
61) 4-Chlorophenyl phenyl ethe	9.20	204	461403	49.64883 ppb	#	85
62) Fluorene	9.19	166	829804	50.09291 ppb		99
63) 4-Nitroaniline	8.50	138	199477	52.44895 ppb		97
66) 4,6-Dinitro-2-methylphenol	9.25	198	173830	50.51316 ppb	#	81
67) Diphenyl amine	9.34	169	1334427	99.65837 ppb		99
68) n-Nitrosodiphenylamine	9.34	169	1334427	99.65837 ppb		99
69) 1,2-Diphenylhydrazine	9.37	77	624879	48.20424 ppb		96
70) 4-Bromophenyl phenyl ether	9.76	248	273855	51.70505 ppb		97
71) Hexachlorobenzene	9.82	284	287260	50.46491 ppb	#	91
72) Atrazine	9.97	200	122259	24.84703 ppb		96
73) Pentachlorophenol	10.06	266	185264	47.83323 ppb		97
74) Phenanthrene	10.30	178	1205469	50.19465 ppb		99
75) Anthracene	10.37	178	1273491	51.02178 ppb		98
76) Carbazol	10.55	167	1139442	50.75221 ppb		96
77) Di-n-butylphthalate	10.98	149	1354521	49.85476 ppb		99
78) Fluoranthene	11.69	202	1412512	50.86495 ppb	#	96
80) Benzidine	11.86	184	414265	51.28126 ppb		99
81) Pyrene	11.95	202	1484760	51.64051 ppb		99
83) Butyl benzylphthalate	12.73	149	616762	52.06262 ppb		81
84) 3,3'-Dichlorobenzidine	13.33	252	531128	55.79199 ppb		99
85) Benz (a) anthracene	13.35	228	1518122	52.43661 ppb		99
86) Bis (2-ethylhexyl) phthala	13.40	149	848846	51.09504 ppb		98
87) Chrysene	13.39	228	1405454	50.44572 ppb		99
88) Di-n-octylphthalate	14.13	149	1485254	54.59930 ppb		98
90) Benzo (b) fluoranthene	14.57	252	1424038	50.30349 ppb		97
91) Benzo (k) fluoranthene	14.61	252	1373824	50.09874 ppb		98
92) Benzo (a) pyrene	14.99	252	1352503	52.25131 ppb		98
93) Indeno (1,2,3-cd) pyrene	16.74	276	1531973	52.42021 ppb		96
94) Dibenz (a,h) anthracene	16.78	278	1373246	53.93999 ppb		100
95) Benzo (g,h,i) perylene	17.25	276	1328570	52.33006 ppb		98

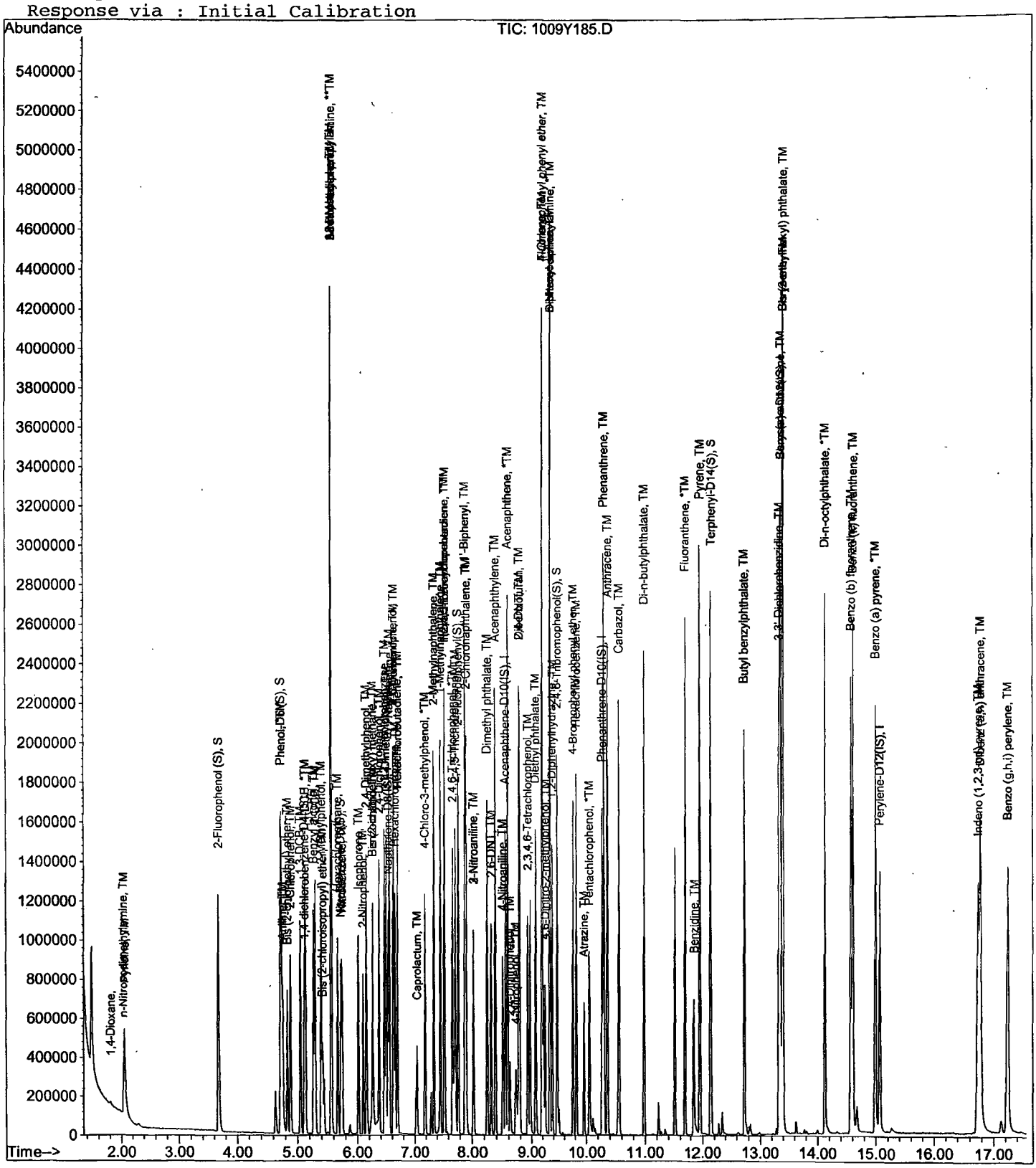
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y185.D Vial: 85
Acq On : 22 Oct 20 11:30 Operator: MA
Sample : 50ug/mL 8270 7/22/20 96) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 22 11:33 2020 Quant Results File: Y1009.RES

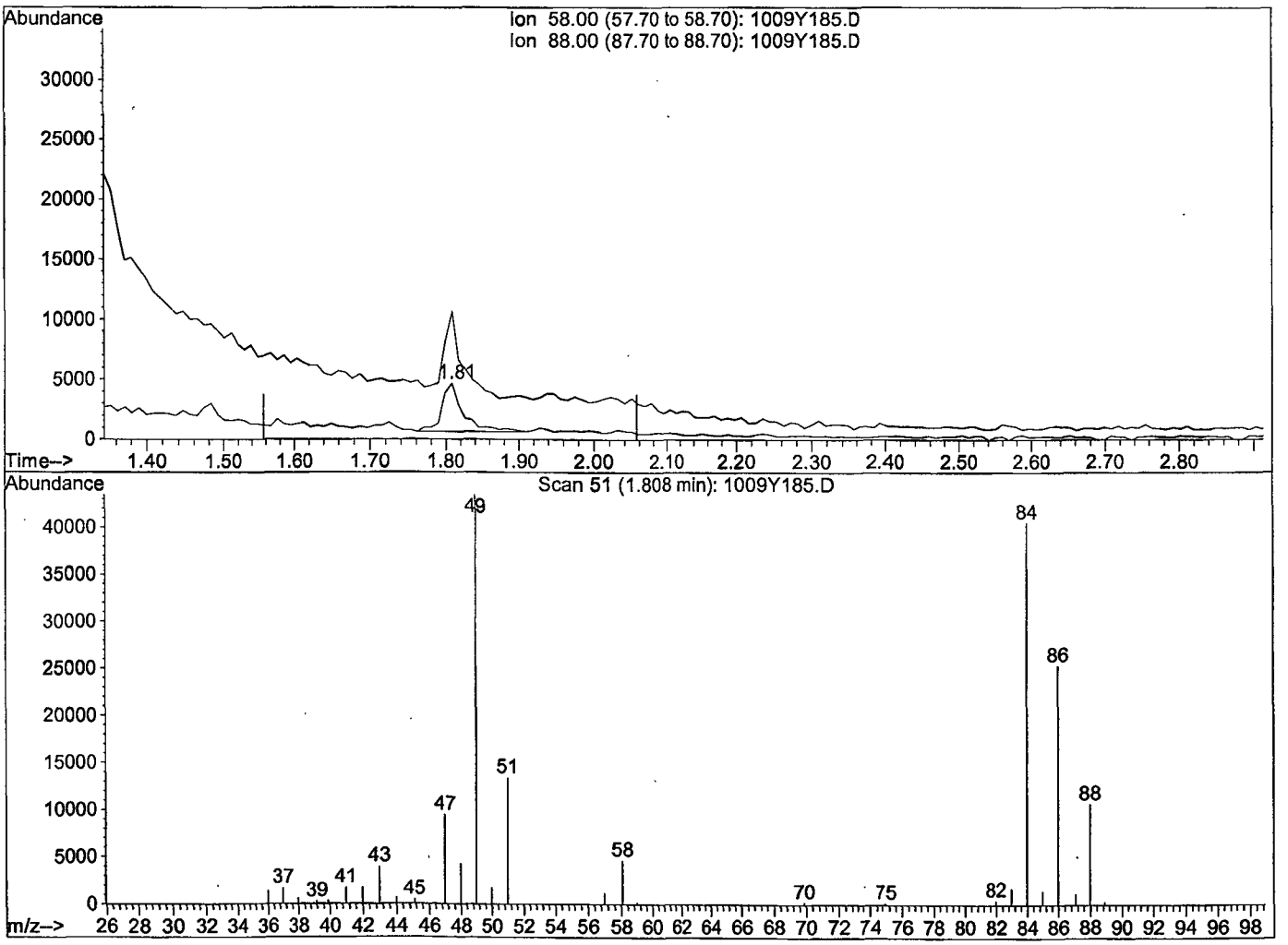
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y185.D Vial: 85
Acq On : 22 Oct 20 11:30 Operator: MA
Sample : 50ug/mL 8270 7/22/20 96) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 22 11:31 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y185.D

(2) 1,4-Dioxane

1.81min 6.1745

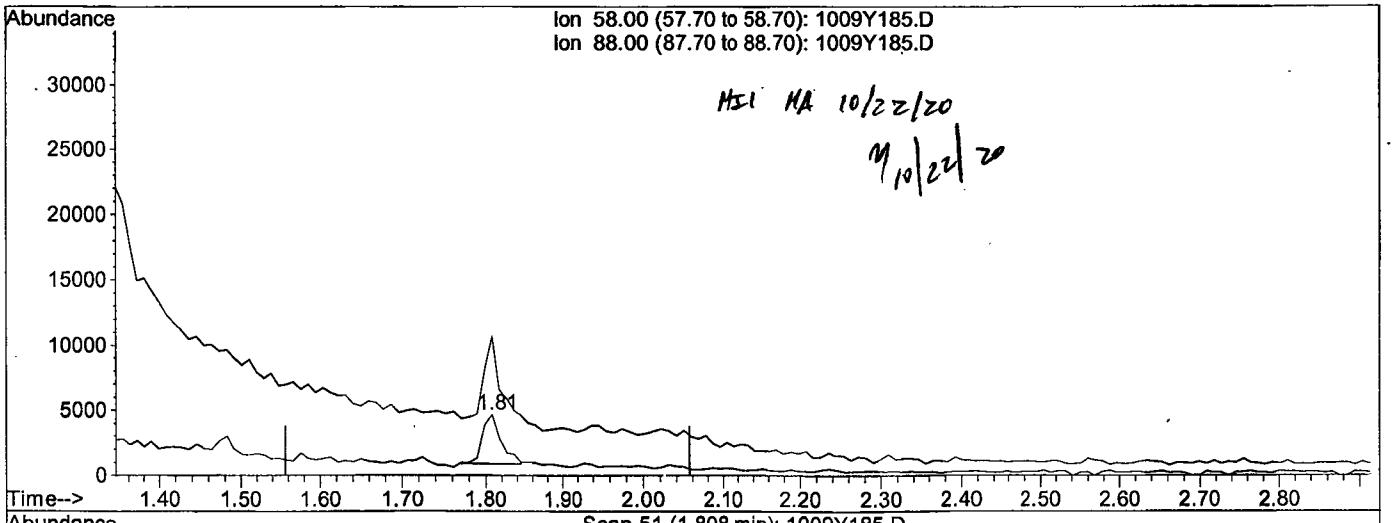
response 8336

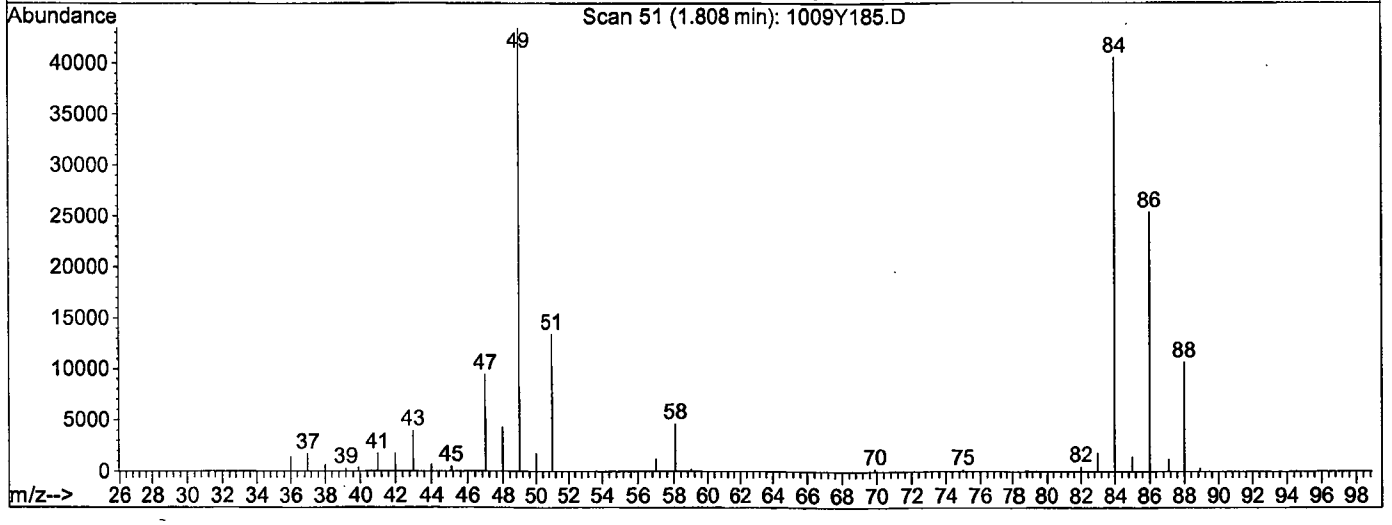
Ion	Exp%	Act%
58.00	100	100
88.00	166.30	152.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y185.D Vial: 85
Acq On : 22 Oct 20 11:30 Operator: MA
Sample : 50ug/mL 8270 7/22/20 96) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 22 11:32 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y185.D

(2) 1,4-Dioxane

1.81min 4.5464 m

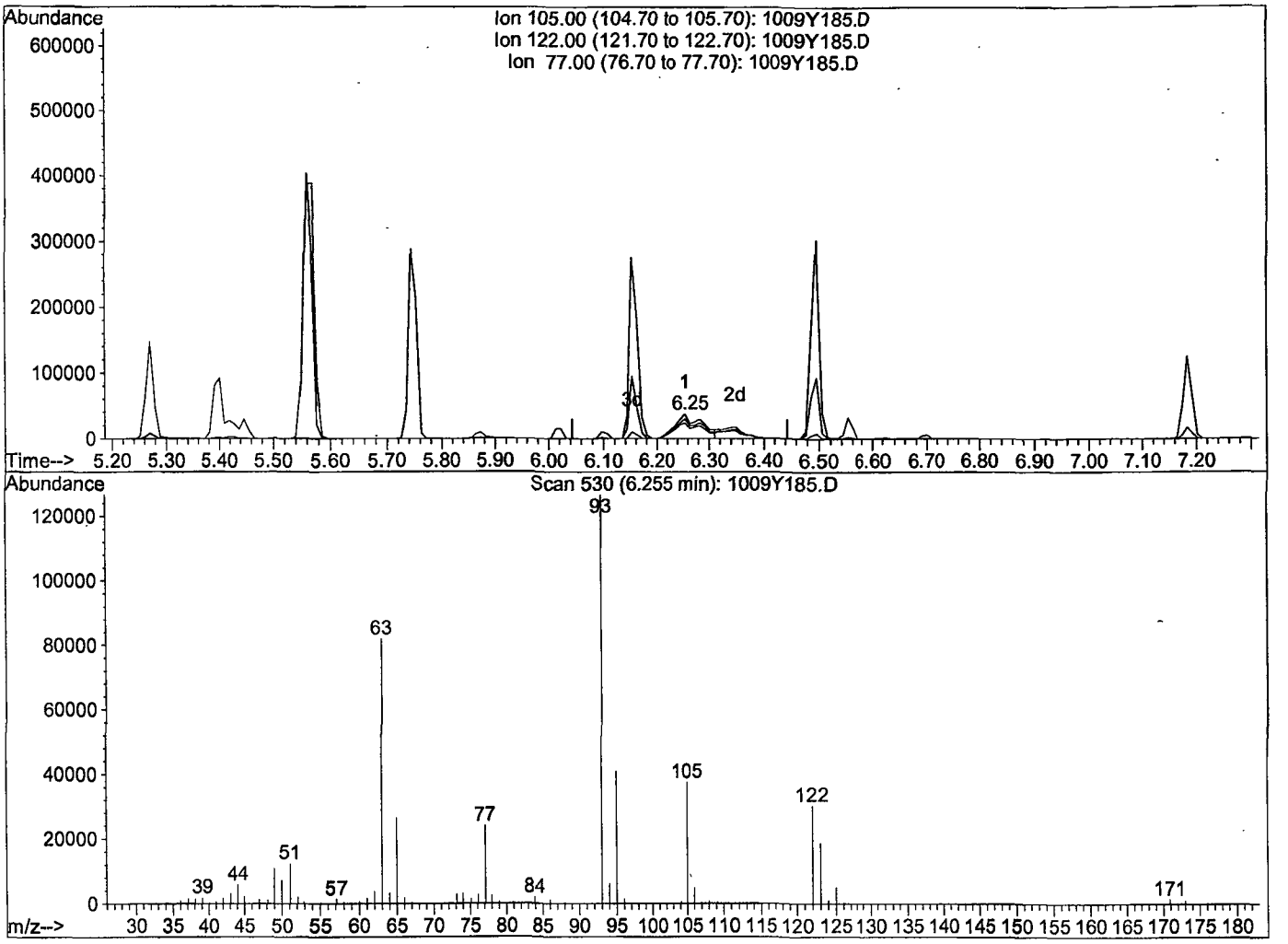
response 6138

Ion	Exp%	Act%
58.00	100	100
88.00	166.30	206.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y185.D Vial: 85
Acq On : 22 Oct 20 11:30 Operator: MA
Sample : 50ug/mL 8270 7/22/20 96) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 22 11:32 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y185.D

(27) Benzoic acid (TM)

6.25min 35.6523ppb

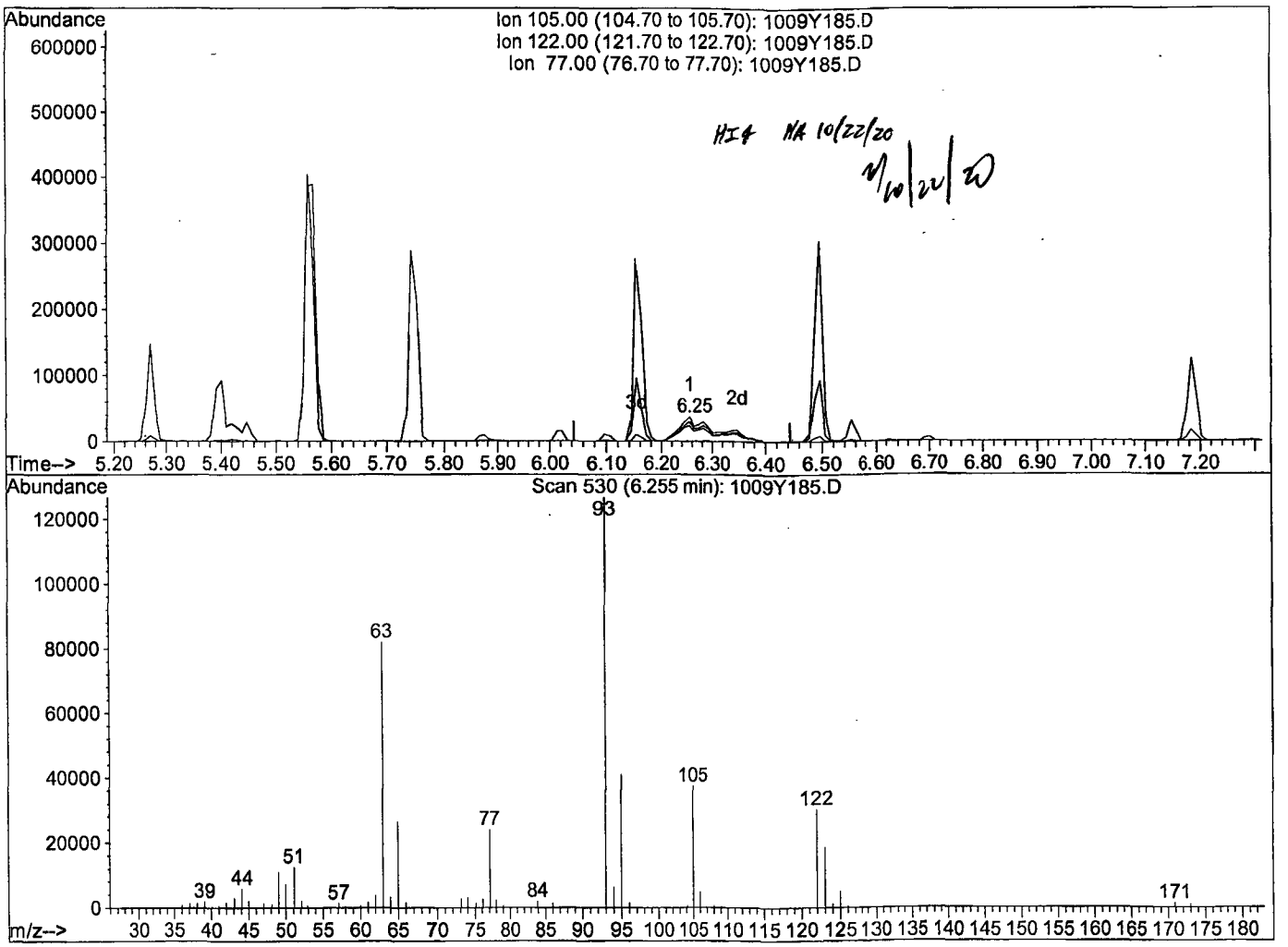
response 133878

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	78.43
77.00	70.50	64.03
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y185.D Vial: 85
Acq On : 22 Oct 20 11:30 Operator: MA
Sample : 50ug/mL 8270 7/22/20 96) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 22 11:33 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y185.D

(27) Benzoic acid (TM)

6.25min 46.4162ppb m

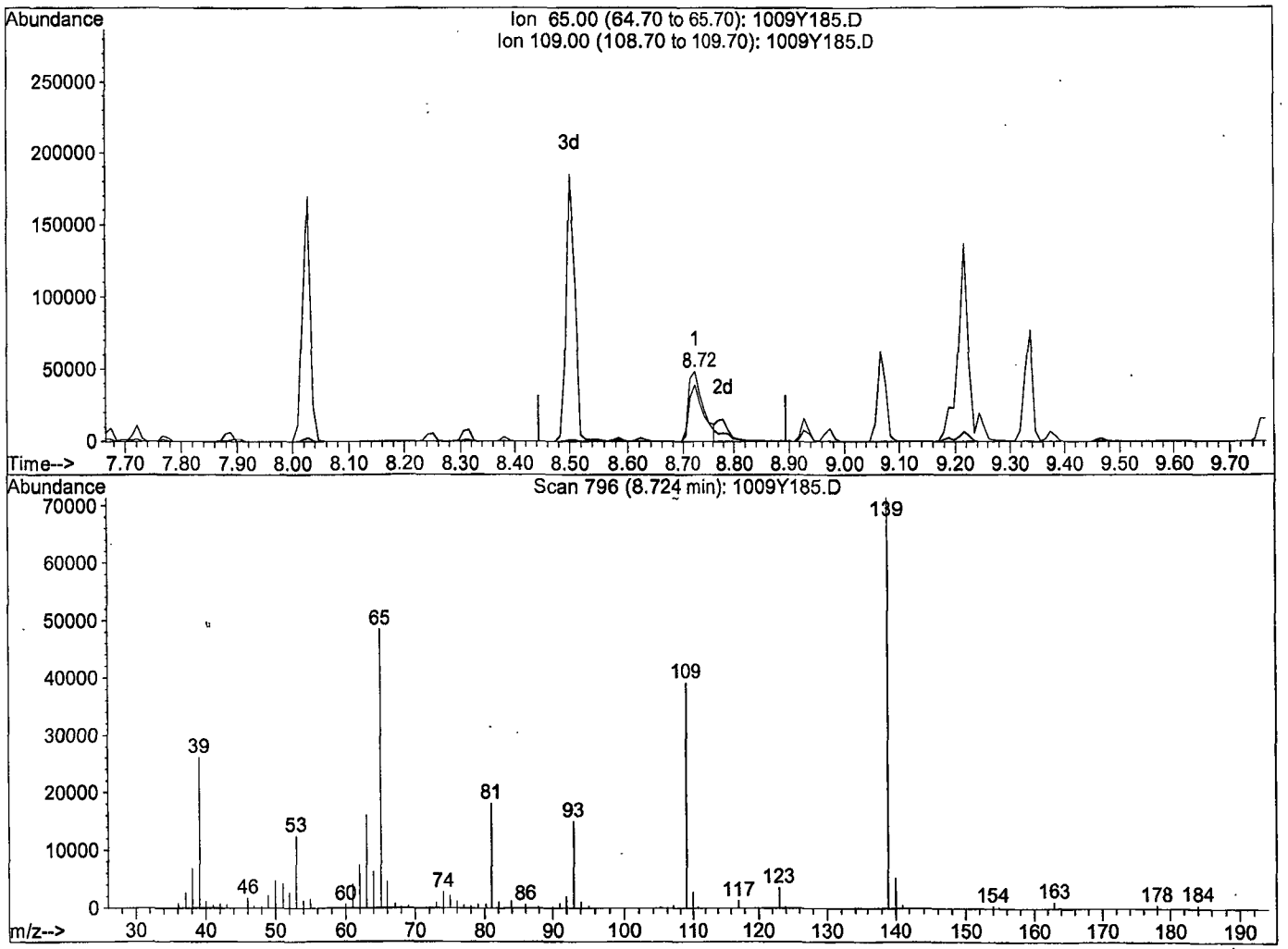
response 186559

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	80.82
77.00	70.50	64.03
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y185.D Vial: 85
Acq On : 22 Oct 20 11:30 Operator: MA
Sample : 50ug/mL 8270 7/22/20 96) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 22 11:33 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y185.D

(56) 4-Nitrophenol (**TM)

8.72min 38.9713ppb

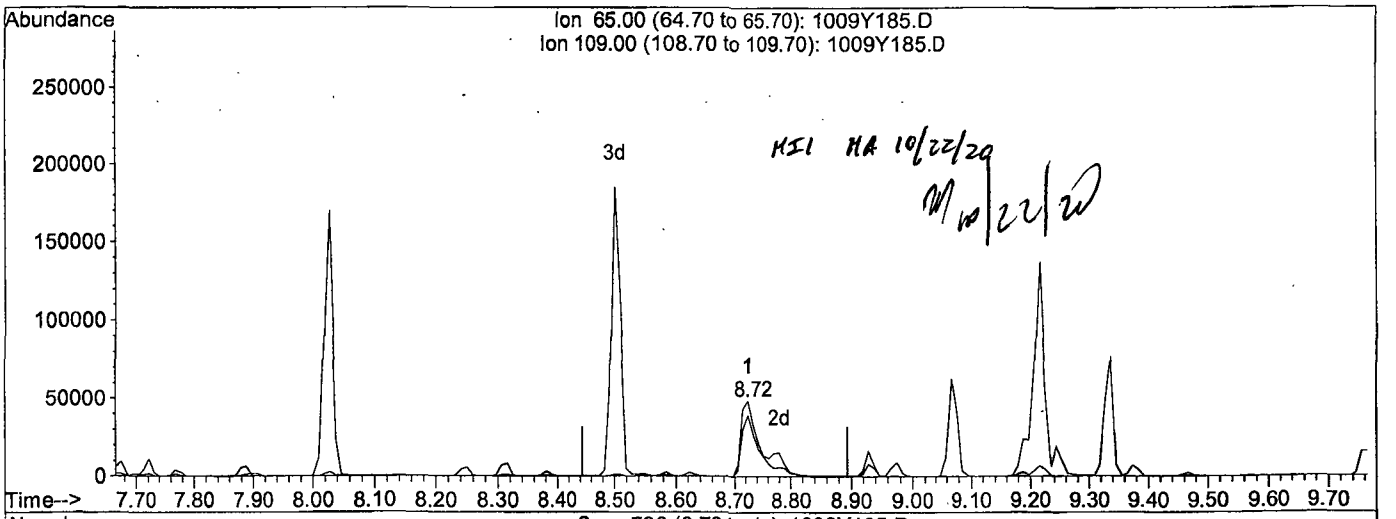
response 99758

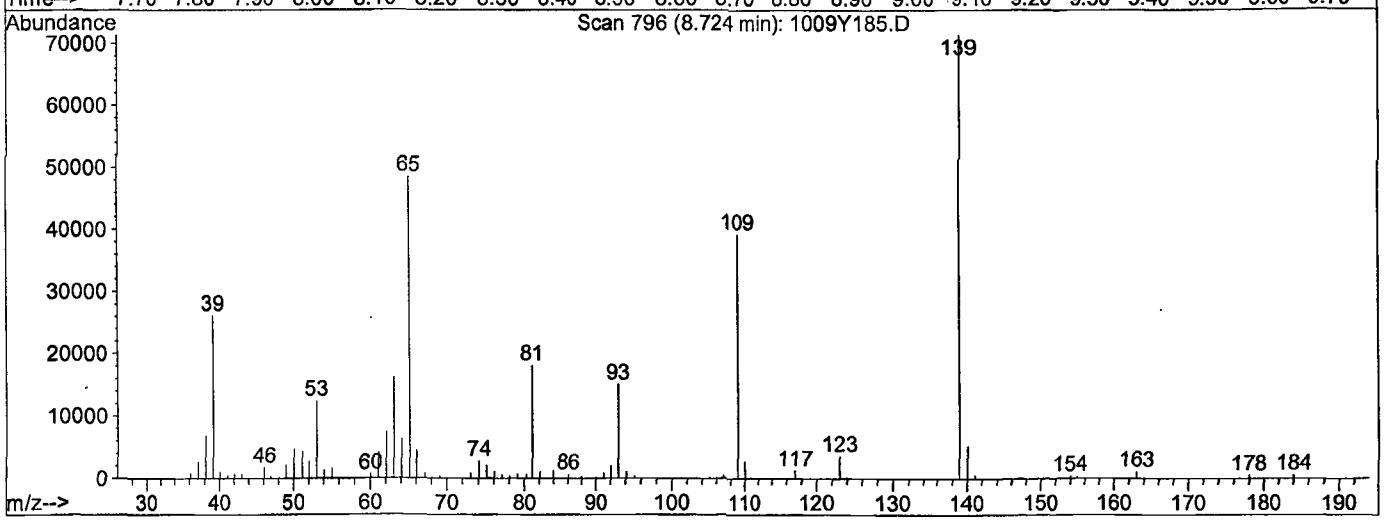
Ion	Exp%	Act%
65.00	100	100
109.00	90.40	80.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y185.D Vial: 85
Acq On : 22 Oct 20 11:30 Operator: MA
Sample : 50ug/mL 8270 7/22/20 96) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 22 11:33 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y185.D

(56) 4-Nitrophenol (**TM)

8.72min 48.8377ppb m

response 125014

Ion	Exp%	Act%
65.00	100	100
109.00	90.40	80.86
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/22/20
Matrix: Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y210.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.4202	17		
3	TM	n-Nitrosodimethylamine	0.5546	0.6055	9.2	TM	
4	TM	Pyridine	1.551	1.570	1.2	TM	
5	S	2-Fluorophenol (S)	1.550	1.621	4.5	S	
6	S	Phenol-D6 (S)	1.954	2.123	8.6	S	
7	*TM	Phenol	2.239	2.557	14	*TM	
8	TM	Aniline	1.755	1.579	10	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9846	8.9	TM	
10	TM	2-Chlorophenol	1.864	2.071	11	TM	
11	TM	1,3-DCB	1.992	2.101	5.5	TM	
12	*TM	1,4-DCB	2.033	2.174	7.0	*TM	
13	TM	Benzyl alcohol	1.042	1.168	12	TM	
14	TM	1,2-DCB	1.910	2.036	6.6	TM	
15	TM	2-Methylphenol	1.379	1.538	12	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.331	12	TM	
17	TM	Acetophenone	2.406	2.652	10	TM	
18	TM	3&4-Methylphenol	1.915	2.167	13	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.338	10	**TM	
20	TM	Hexachloroethane	0.7164	0.7399	3.3	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4208	0.58	S	
23	TM	Nitrobenzene	0.4309	0.4389	1.9	TM	
24	TM	Isophorone	0.7379	0.7711	4.5	TM	
25	*TM	2-Nitrophenol	0.2595	0.2809	8.3	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4313	6.4	TM	
27	TML	Benzoic acid	0.2281	0.3261	43	TML	17
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4938	5.4	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4304	6.7	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4694	4.4	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5978	5.6	TM	
32	TM	Naphthalene	1.312	1.390	6.0	TM	
33	TM	4-Chloroaniline	0.5518	0.5538	0.35	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.4174	5.0	TM	
35	TM	Hexachloropropene	0.3271	0.3265	0.18	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2793	1.2	*TM	
37	TM	Caprolactum	0.1313	0.1417	7.9	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4309	4.6	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.9426	6.5	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9798	6.9	TM	
		Average			7.9		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/22/20
Matrix: 0 Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y210.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5287	5.1	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8492	5.2	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5541	3.4	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5928	5.6	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.733	2.8	S	
47	TM	1,1'-Biphenyl	1.924	2.036	5.8	TM	
48	TM	2-Chloronaphthalene	1.522	1.582	4.0	TM	
49	TM	2-Nitroaniline	0.3796	0.3861	1.7	TM	
50	TM	Dimethyl phthalate	1.821	1.898	4.3	TM	
51	TM	2,6-DNT	0.4045	0.4439	9.7	TM	
52	TM	Acenaphthylene	2.334	2.477	6.1	TM	
53	TM	3-Nitroaniline	0.5014	0.5474	9.2	TM	
54	*TM	Acenaphthene	1.551	1.574	1.5	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.2648	33	**TML	19
56	**TM	4-Nitrophenol	0.2824	0.2712	4.0	**TM	
57	TM	Dibenzofuran	2.210	2.289	3.6	TM	
58	TM	2,4-DNT	0.5755	0.6292	9.3	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4992	6.5	TM	
60	TM	Diethyl phthalate	1.778	1.846	3.8	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.070	4.3	TM	
62	TM	Fluorene	1.828	1.925	5.3	TM	
63	TM	4-Nitroaniline	0.4196	0.4694	12	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.3015	4.2	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2159	11	TM	
67	TM	Diphenyl amine	0.7572	0.7824	3.3	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7824	3.3	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7285	0.63	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3257	8.7	TM	
71	TM	Hexachlorobenzene	0.3219	0.3393	5.4	TM	
72	TM	Atrazine	0.2783	0.2044	27	TM	
73	*TM	Pentachlorophenol	0.2190	0.2257	3.0	*TM	
74	TM	Phenanthrene	1.358	1.378	1.4	TM	
75	TM	Anthracene	1.412	1.485	5.2	TM	
76	TM	Carbazol	1.270	1.335	5.2	TM	
77	TM	Di-n-butylphthalate	1.536	1.601	4.2	TM	
78	*TM	Fluoranthene	1.570	1.665	6.0	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.2672	40	TM	
		Average			7.4		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/22/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y210.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Pyrene	1.596	1.682	5.4	TM	
82	S	Terphenyl-D14(S)	1.153	1.194	3.6	S	
83	TM	Butyl benzylphthalate	0.6574	0.7209	9.7	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6629	25	TM	
85	TM	Benz (a) anthracene	1.607	1.726	7.4	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	1.007	9.2	TM	
87	TM	Chrysene	1.546	1.603	3.7	TM	
88	*TM	Di-n-octylphthalate	1.510	1.734	15	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.600	3.1	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.627	8.2	TM	
92	*TM	Benzo (a) pyrene	1.419	1.557	9.7	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.767	10	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.567	12	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.516	8.9	TM	
96							
97							
98							
99							
100							
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113							
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115							
116							
117							
118							
119							
120							
		Average			9.4		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y210.D Vial: 10
Acq On : 22 Oct 20 22:36 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 9:33 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	190395	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	811024	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	495205	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	987534	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.37	240	999306	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.06	264	1001638	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.67	112	771417	104.53714 ppb		0.01
Spiked Amount 200.000			Recovery =	52.269%		
6) Phenol-D6 (S)	4.72	99	1010605	108.63235 ppb		0.01
Spiked Amount 200.000			Recovery =	54.316%		
22) Nitrobenzene-D5(S)	5.73	82	426626	50.28912 ppb		0.00
Spiked Amount 100.000			Recovery =	50.289%		
46) 2-Fluorobiphenyl(S)	7.78	172	1072641	51.39232 ppb		0.00
Spiked Amount 100.000			Recovery =	51.392%		
64) 2,4,6-Tribromophenol(S)	9.48	330	373248	104.19034 ppb		0.00
Spiked Amount 200.000			Recovery =	52.095%		
82) Terphenyl-D14(S)	12.15	244	1491614	51.78263 ppb		0.00
Spiked Amount 100.000			Recovery =	51.783%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	10001	5.85672		71
3) n-Nitrosodimethylamine	2.03	42	144099	54.58895 ppb		95
4) Pyridine	2.05	79	373735	50.62319 ppb		98
7) Phenol	4.74	94	608482	57.10545 ppb		96
8) Aniline	4.76	93	375680	44.97602 ppb		98
9) Bis (2-chloroethyl) ether	4.83	63	234333	54.42645 ppb		95
10) 2-Chlorophenol	4.89	128	492878	55.56617 ppb		99
11) 1,3-DCB	5.06	146	500101	52.75287 ppb		97
12) 1,4-DCB	5.13	146	517468	53.47767 ppb		97
13) Benzyl alcohol	5.27	108	277860	56.01796 ppb		95
14) 1,2-DCB	5.30	146	484527	53.28207 ppb		97
15) 2-Methylphenol	5.40	107	366052	55.75853 ppb		99
16) Bis (2-chloroisopropyl) et	5.42	45	316741	56.10876 ppb		95
17) Acetophenone	5.57	105	631069	55.10825 ppb		96
18) 3&4-Methylphenol	5.57	107	1031297	113.12337 ppb		95
19) n-Nitrosodi-n-propylamine	5.57	70	318516	55.21963 ppb		94
20) Hexachloroethane	5.67	117	176086	51.64059 ppb		87
23) Nitrobenzene	5.75	77	444900	50.92639 ppb		95
24) Isophorone	6.02	82	781747	52.25363 ppb		99
25) 2-Nitrophenol	6.11	139	284768	54.13047 ppb		95
26) 2,4-Dimethylphenol	6.16	122	437229	53.20158 ppb		95
27) Benzoic acid	6.30	105	330569	58.50839 ppb		98
28) Bis (2-chloroethoxy) metha	6.26	93	500610	52.70531 ppb		99
29) 2,4-Dichlorophenol	6.37	162	436356	53.36853 ppb		97
30) 1,2,4-Trichlorobenzene	6.47	180	475847	52.22264 ppb		97
31) 3,4-Dimethylphenol	6.50	107	606066	52.78587 ppb		96
32) Naphthalene	6.55	128	1409162	52.98796 ppb		99
33) 4-Chloroaniline	6.63	127	561404	50.17599 ppb	#	92
34) 2,6-Dichlorophenol	6.63	162	423127	52.51180 ppb		99
35) Hexachloropropene	6.65	213	330958	49.90840 ppb		98
36) Hexachlorobutadiene	6.70	225	283169	50.59936 ppb		98
37) Caprolactum	7.05	55	143612	53.93388 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y210.D Vial: 10
Acq On : 22 Oct 20 22:36 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 9:33 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	436855	52.27790 ppb		97
39)	2-Methylnaphthalene	7.34	142	955625	53.24341 ppb		100
40)	1-Methylnaphthalene	7.46	142	993273	53.43797 ppb		100
42)	Hexachlorocyclopentadiene	7.53	237	327296	47.43262 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	525652	52.61108 ppb		99
44)	2,4,6-Trichlorophenol	7.67	196	342989	51.71462 ppb		97
45)	2,4,5-Trichlorophenol	7.73	196	366961	52.81304 ppb		96
47)	1,1'-Biphenyl	7.89	154	1260142	52.90509 ppb		98
48)	2-Chloronaphthalene	7.91	162	979287	51.98311 ppb		98
49)	2-Nitroaniline	8.03	65	239024	50.85650 ppb		90
50)	Dimethyl phthalate	8.25	163	1175144	52.13539 ppb		98
51)	2,6-DNT	8.32	165	274788	54.87487 ppb		97
52)	Acenaphthylene	8.38	152	1533306	53.05499 ppb		99
53)	3-Nitroaniline	8.03	138	338815	54.58561 ppb		98
54)	Acenaphthene	8.58	154	974575	50.74797 ppb		99
55)	2,4-Dinitrophenol	8.63	184	163938	59.33416 ppb	#	82
56)	4-Nitrophenol	8.71	65	167895	48.01630 ppb		89
57)	Dibenzofuran	8.79	168	1417055	51.80082 ppb		94
58)	2,4-DNT	8.78	165	389466	54.66478 ppb		97
59)	2,3,4,6-Tetrachlorophenol	8.94	232	309027	53.25553 ppb	#	89
60)	Diethyl phthalate	9.08	149	1142957	51.91544 ppb		99
61)	4-Chlorophenyl phenyl ethe	9.20	204	662068	52.15373 ppb		87
62)	Fluorene	9.19	166	1191388	52.65118 ppb		99
63)	4-Nitroaniline	8.51	138	290540	55.92475 ppb	#	77
66)	4,6-Dinitro-2-methylphenol	9.25	198	266484	55.46400 ppb		97
67)	Diphenyl amine	9.34	169	1931627	103.32428 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1931627	103.32428 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	899233	49.68460 ppb		96
70)	4-Bromophenyl phenyl ether	9.76	248	402017	54.36469 ppb		95
71)	Hexachlorobenzene	9.82	284	418845	52.70209 ppb	#	87
72)	Atrazine	9.97	200	126127	18.35954 ppb		97
73)	Pentachlorophenol	10.06	266	278593	51.51919 ppb		97
74)	Phenanthrene	10.30	178	1700763	50.72305 ppb		99
75)	Anthracene	10.37	178	1833601	52.61684 ppb		99
76)	Carbazol	10.56	167	1648457	52.58968 ppb		94
77)	Di-n-butylphthalate	10.98	149	1975737	52.08470 ppb		99
78)	Fluoranthene	11.69	202	2055295	53.01038 ppb		98
80)	Benzidine	11.86	184	333796	29.80336 ppb		99
81)	Pyrene	11.95	202	2101356	52.71540 ppb		99
83)	Butyl benzylphthalate	12.72	149	900527	54.82880 ppb		81
84)	3,3'-Dichlorobenzidine	13.33	252	828053	62.73855 ppb		100
85)	Benz (a) anthracene	13.35	228	2156409	53.72330 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.40	149	1257362	54.59008 ppb		99
87)	Chrysene	13.39	228	2002792	51.84981 ppb		100
88)	Di-n-octylphthalate	14.13	149	2165874	57.42793 ppb		98
90)	Benzo (b) fluoranthene	14.58	252	2003017	51.53954 ppb		99
91)	Benzo (k) fluoranthene	14.62	252	2037383	54.11876 ppb		99
92)	Benzo (a) pyrene	15.00	252	1949795	54.86904 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.75	276	2212356	55.14194 ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1961902	56.13313 ppb		99
95)	Benzo (g,h,i) perylene	17.26	276	1898333	54.46514 ppb		99

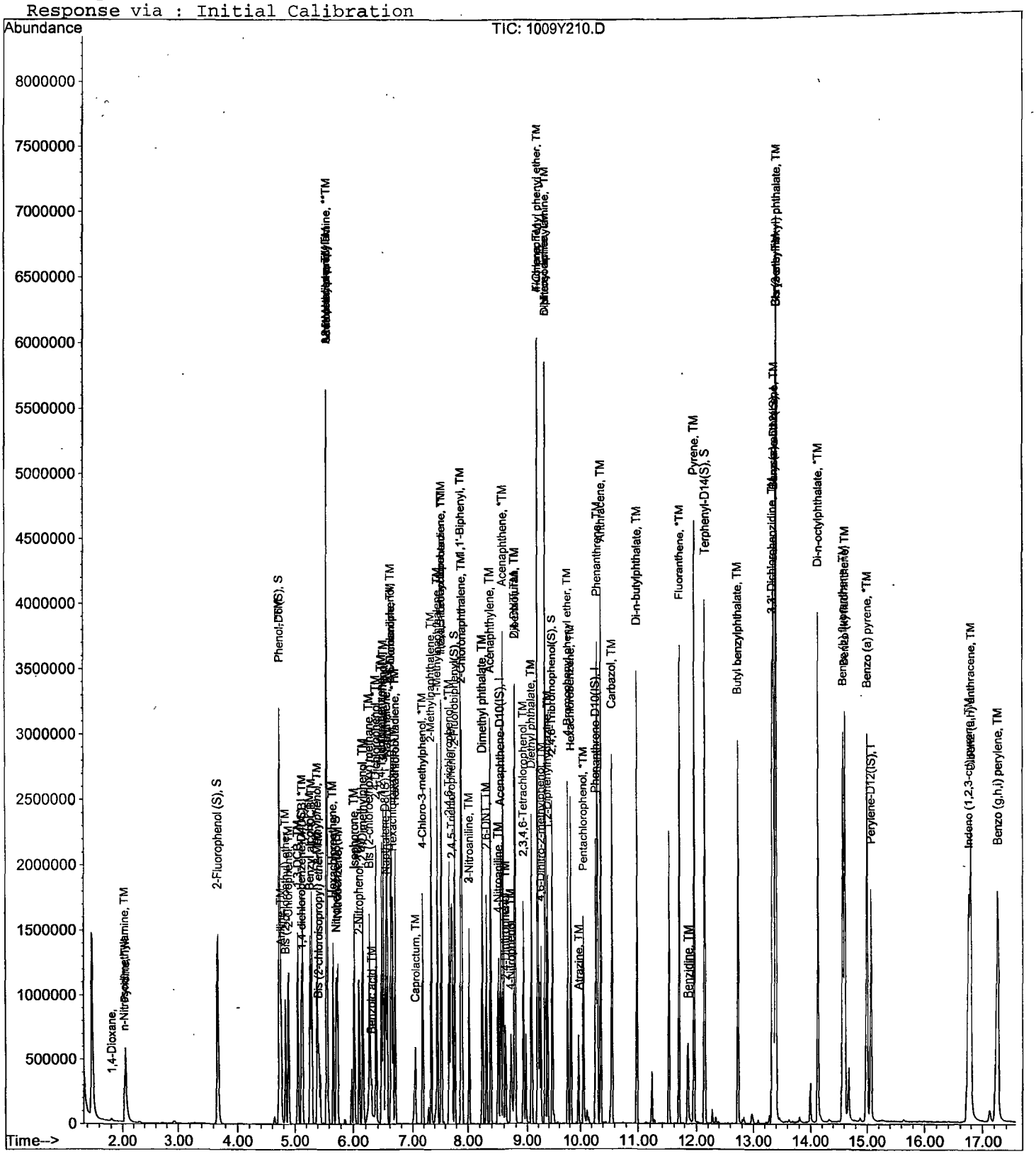
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y210.D Vial: 10
Acq On : 22 Oct 20 22:36 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 9:33 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 11/10/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1102Y086.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I		
2		1,4-Dioxane	0.3588	0.4615	29			*NT
3	TM	n-Nitrosodimethylamine	0.5546	0.5640	1.7	TM		
4	TM	Pyridine	1.551	1.641	5.8	TM		
5	S	2-Fluorophenol (S)	1.550	1.605	3.5	S		
6	S	Phenol-D6 (S)	1.954	2.076	6.2	S		
7	*TM	Phenol	2.239	2.355	5.2	*TM		
8	TM	Aniline	1.755	1.827	4.1	TM		
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9385	3.8	TM		
10	TM	2-Chlorophenol	1.864	1.944	4.3	TM		
11	TM	1,3-DCB	1.992	2.019	1.4	TM		
12	*TM	1,4-DCB	2.033	2.055	1.1	*TM		
13	TM	Benzyl alcohol	1.042	1.079	3.5	TM		
14	TM	1,2-DCB	1.910	1.938	1.4	TM		
15	TM	2-Methylphenol	1.379	1.423	3.2	TM		
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.271	7.1	TM		
17	TM	Acetophenone	2.406	2.356	2.1	TM		
18	TM	3&4-Methylphenol	1.915	1.968	2.8	TM		
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.227	1.3	**TM		
20	TM	Hexachloroethane	0.7164	0.7047	1.6	TM		
21	I	Napthalene-D8(IS)	ISTD			I		
22	S	Nitrobenzene-D5(S)	0.4184	0.4261	1.8	S		
23	TM	Nitrobenzene	0.4309	0.4252	1.3	TM		
24	TM	Isophorone	0.7379	0.7510	1.8	TM		
25	*TM	2-Nitrophenol	0.2595	0.2667	2.8	*TM		
26	TM	2,4-Dimethylphenol	0.4053	0.4068	0.35	TM		
27	TML	Benzoic acid	0.2281	0.2331	2.2	TML	12	
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4842	3.4	TM		
29	*TM	2,4-Dichlorophenol	0.4033	0.4044	0.27	*TM		
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4519	0.56	TM		
31	TM	3,4-Dimethylphenol	0.5663	0.5445	3.9	TM		
32	TM	Naphthalene	1.312	1.353	3.2	TM		
33	TM	4-Chloroaniline	0.5518	0.5508	0.19	TM		
34	TM	2,6-Dichlorophenol	0.3974	0.3895	2.0	TM		
35	TM	Hexachloropropene	0.3271	0.3067	6.2	TM		
36	*TM	Hexachlorobutadiene	0.2760	0.2570	6.9	*TM		
37	TM	Caprolactum	0.1313	0.1336	1.7	TM		
38	*TM	4-Chloro-3-methylphenol	0.4121	0.3989	3.2	*TM		
39	TM	2-Methylnaphthalene	0.8852	0.8883	0.34	TM		
40	TM	1-Methylnaphthalene	0.9167	0.9204	0.40	TM		
		Average			3.5			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 11/10/20
Matrix: 0 Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1102Y086.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.4512	19	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8040	0.37	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5279	1.5	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5694	1.5	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.738	3.1	S	
47	TM	1,1'-Biphenyl	1.924	1.962	2.0	TM	
48	TM	2-Chloronaphthalene	1.522	1.542	1.3	TM	
49	TM	2-Nitroaniline	0.3796	0.3664	3.5	TM	
50	TM	Dimethyl phthalate	1.821	1.816	0.24	TM	
51	TM	2,6-DNT	0.4045	0.4174	3.2	TM	
52	TM	Acenaphthylene	2.334	2.414	3.4	TM	
53	TM	3-Nitroaniline	0.5014	0.5280	5.3	TM	
54	*TM	Acenaphthene	1.551	1.524	1.7	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.2402	21	**TML	11
56	**TM	4-Nitrophenol	0.2824	0.2669	5.5	**TM	
57	TM	Dibenzofuran	2.210	2.197	0.55	TM	
58	TM	2,4-DNT	0.5755	0.5739	0.27	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4520	3.6	TM	
60	TM	Diethyl phthalate	1.778	1.716	3.5	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.004	2.1	TM	
62	TM	Fluorene	1.828	1.823	0.27	TM	
63	TM	4-Nitroaniline	0.4196	0.4449	6.0	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2769	4.3	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2116	8.8	TM	
67	TM	Diphenyl amine	0.7572	0.7767	2.6	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7767	2.6	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7562	3.1	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3122	4.2	TM	
71	TM	Hexachlorobenzene	0.3219	0.3235	0.48	TM	
72	TM	Atrazine	0.2783	0.2699	3.0	TM	
73	*TM	Pentachlorophenol	0.2190	0.2147	2.0	*TM	
74	TM	Phenanthrene	1.358	1.410	3.8	TM	
75	TM	Anthracene	1.412	1.465	3.8	TM	
76	TM	Carbazol	1.270	1.333	5.0	TM	
77	TM	Di-n-butylphthalate	1.536	1.578	2.7	TM	
78	*TM	Fluoranthene	1.570	1.620	3.1	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.4607	2.8	TM	
		Average			3.8		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 11/10/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1102Y086.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Pyrene	1.596	1.640	2.8	TM	
82	S	Terphenyl-D14(S)	1.153	1.190	3.2	S	
83	TM	Butyl benzylphthalate	0.6574	0.6913	5.1	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6124	16	TM	
85	TM	Benz (a) anthracene	1.607	1.652	2.8	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9704	5.3	TM	
87	TM	Chrysene	1.546	1.570	1.5	TM	
88	*TM	Di-n-octylphthalate	1.510	1.655	9.6	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.540	0.79	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.593	5.9	TM	
92	*TM	Benzo (a) pyrene	1.419	1.513	6.6	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.714	7.0	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.512	8.3	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.474	5.9	TM	
96							
97							
98							
99							
100							
101							
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112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			5.8		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y086.D Vial: 86
Acq On : 10 Nov 20 10:50 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 10 10:53 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	156748	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	636150	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	377782	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	720187	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	732600	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	712550	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	628911	103.51997 ppb	0.01
Spiked Amount 200.000			Recovery =	51.760%	
6) Phenol-D6 (S)	4.72	99	813687	106.24014 ppb	0.01
Spiked Amount 200.000			Recovery =	53.120%	
22) Nitrobenzene-D5(S)	5.72	82	338796	50.91423 ppb	0.00
Spiked Amount 100.000			Recovery =	50.914%	
46) 2-Fluorobiphenyl(S)	7.77	172	820636	51.53925 ppb	0.00
Spiked Amount 100.000			Recovery =	51.539%	
64) 2,4,6-Tribromophenol(S)	9.47	330	261474	95.67583 ppb	0.00
Spiked Amount 200.000			Recovery =	47.838%	
82) Terphenyl-D14(S)	12.14	244	1090082	51.62005 ppb	-0.02
Spiked Amount 100.000			Recovery =	51.620%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	9042	6.43175	76
3) n-Nitrosodimethylamine	2.03	42	110505	50.84863 ppb	97
4) Pyridine	2.06	79	321454	52.88812 ppb	99
7) Phenol	4.73	94	461496	52.60794 ppb	99
8) Aniline	4.75	93	358016	52.06177 ppb	99
9) Bis (2-chloroethyl) ether	4.83	63	183882	51.87634 ppb	85
10) 2-Chlorophenol	4.88	128	380934	52.16441 ppb	97
11) 1,3-DCB	5.05	146	395684	50.69795 ppb	98
12) 1,4-DCB	5.13	146	402550	50.53152 ppb	99
13) Benzyl alcohol	5.26	108	211327	51.74993 ppb	99
14) 1,2-DCB	5.30	146	379746	50.72358 ppb	95
15) 2-Methylphenol	5.39	107	278804	51.58472 ppb	98
16) Bis (2-chloroisopropyl) et	5.42	45	248971	53.57087 ppb	97
17) Acetophenone	5.56	105	461559	48.95765 ppb	93
18) 3&4-Methylphenol	5.56	107	771281	102.76252 ppb	95
19) n-Nitrosodi-n-propylamine	5.56	70	240468	50.63760 ppb	94
20) Hexachloroethane	5.67	117	138085	49.18882 ppb	98
23) Nitrobenzene	5.74	77	338094	49.33920 ppb	99
24) Isophorone	6.01	82	597169	50.88873 ppb	99
25) 2-Nitrophenol	6.10	139	212114	51.40367 ppb	93
26) 2,4-Dimethylphenol	6.15	122	323451	50.17625 ppb	95
27) Benzoic acid	6.26	105	185363	44.19257 ppb	96
28) Bis (2-chloroethoxy) metha	6.25	93	385004	51.67664 ppb	99
29) 2,4-Dichlorophenol	6.37	162	321535	50.13566 ppb	99
30) 1,2,4-Trichlorobenzene	6.46	180	359376	50.28225 ppb	100
31) 3,4-Dimethylphenol	6.49	107	432948	48.07371 ppb	98
32) Naphthalene	6.55	128	1076061	51.58546 ppb	100
33) 4-Chloroaniline	6.62	127	437970	49.90442 ppb #	94
34) 2,6-Dichlorophenol	6.63	162	309742	49.00726 ppb	96
35) Hexachloropropene	6.65	213	243891	46.88897 ppb	99
36) Hexachlorobutadiene	6.69	225	204400	46.56444 ppb	100
37) Caprolactum	7.02	55	106199	50.84703 ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y086.D Vial: 86
Acq On : 10 Nov 20 10:50 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 10 10:53 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	317212	48.39546	ppb		96
39)	2-Methylnaphthalene	7.34	142	706330	50.17186	ppb		99
40)	1-Methylnaphthalene	7.45	142	731914	50.20137	ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	213056	40.47379	ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	379691	49.81417	ppb		95
44)	2,4,6-Trichlorophenol	7.67	196	249304	49.27267	ppb		95
45)	2,4,5-Trichlorophenol	7.71	196	268896	50.72819	ppb	#	92
47)	1,1'-Biphenyl	7.88	154	926311	50.97750	ppb		98
48)	2-Chloronaphthalene	7.90	162	728229	50.67153	ppb		99
49)	2-Nitroaniline	8.02	65	173028	48.25753	ppb		85
50)	Dimethyl phthalate	8.24	163	857692	49.87887	ppb		99
51)	2,6-DNT	8.31	165	197091	51.59247	ppb		99
52)	Acenaphthylene	8.38	152	1139843	51.69948	ppb		100
53)	3-Nitroaniline	8.02	138	249356	52.65979	ppb		93
54)	Acenaphthene	8.58	154	719890	49.13753	ppb		99
55)	2,4-Dinitrophenol	8.62	184	113431	55.34366	ppb		95
56)	4-Nitrophenol	8.72	65	126051	47.25426	ppb		86
57)	Dibenzofuran	8.78	168	1037674	49.72269	ppb		98
58)	2,4-DNT	8.77	165	271015	49.86262	ppb		98
59)	2,3,4,6-Tetrachlorophenol	8.93	232	213465	48.22128	ppb		94
60)	Diethyl phthalate	9.07	149	810569	48.26146	ppb		99
61)	4-Chlorophenyl phenyl ethe	9.19	204	474143	48.95938	ppb		91
62)	Fluorene	9.18	166	860832	49.86744	ppb		100
63)	4-Nitroaniline	8.50	138	210117	53.01552	ppb	#	80
66)	4,6-Dinitro-2-methylphenol	9.24	198	190532	54.37694	ppb		94
67)	Diphenyl amine	9.33	169	1398442	102.57237	ppb		99
68)	n-Nitrosodiphenylamine	9.33	169	1398442	102.57237	ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	680723	51.57351	ppb		90
70)	4-Bromophenyl phenyl ether	9.75	248	281072	52.11909	ppb	#	88
71)	Hexachlorobenzene	9.82	284	291193	50.24146	ppb		98
72)	Atrazine	9.96	200	121466	24.24461	ppb		98
73)	Pentachlorophenol	10.05	266	193301	49.01621	ppb		99
74)	Phenanthrene	10.30	178	1269477	51.91504	ppb		99
75)	Anthracene	10.36	178	1318938	51.89806	ppb		99
76)	Carbazol	10.55	167	1199730	52.48235	ppb		95
77)	Di-n-butylphthalate	10.97	149	1420246	51.33947	ppb		99
78)	Fluoranthene	11.68	202	1458217	51.57220	ppb		99
80)	Benzidine	11.85	184	421865	51.37942	ppb	#	97
81)	Pyrene	11.94	202	1501672	51.38597	ppb		99
83)	Butyl benzylphthalate	12.72	149	633033	52.57387	ppb		98
84)	3,3'-Dichlorobenzidine	13.33	252	560782	57.95647	ppb	#	97
85)	Benz (a) anthracene	13.35	228	1512498	51.39939	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.39	149	888603	52.62508	ppb		98
87)	Chrysene	13.38	228	1437390	50.75952	ppb		100
88)	Di-n-octylphthalate	14.12	149	1515729	54.82052	ppb		96
90)	Benzo (b) fluoranthene	14.57	252	1371436	49.60516	ppb		99
91)	Benzo (k) fluoranthene	14.60	252	1418443	52.96421	ppb	#	97
92)	Benzo (a) pyrene	14.99	252	1347690	53.31186	ppb		100
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1527019	53.50162	ppb		97
94)	Dibenz (a,h) anthracene	16.77	278	1346375	54.15062	ppb		98
95)	Benzo (g,h,i) perylene	17.24	276	1312895	52.95069	ppb		98

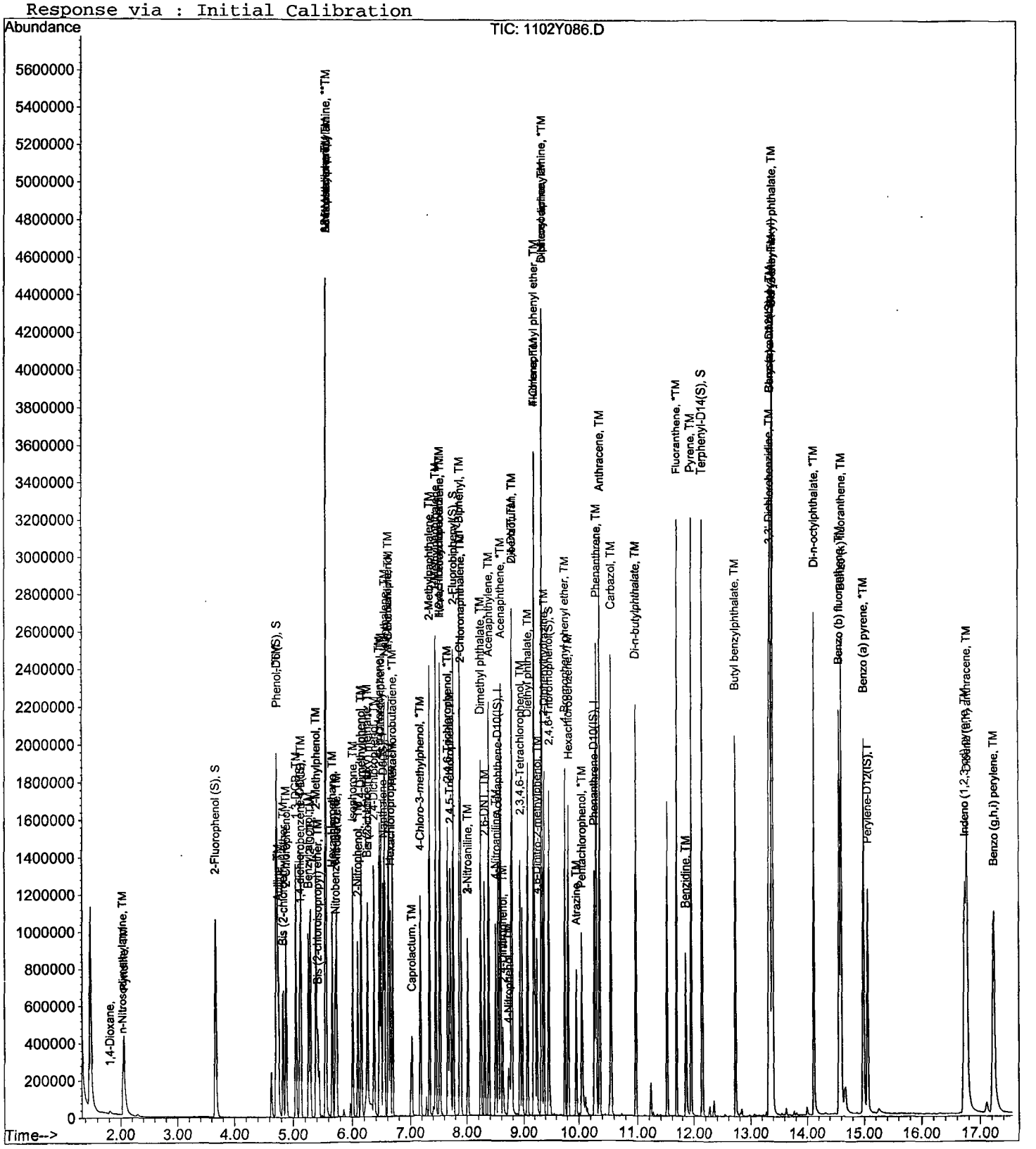
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y086.D Vial: 86
Acq On : 10 Nov 20 10:50 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 10 10:53 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 11/10/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1102Y110.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3690	2.9		
3	TM	n-Nitrosodimethylamine	0.5546	0.6322	14	TM	
4	TM	Pyridine	1.551	1.739	12	TM	
5	S	2-Fluorophenol (S)	1.550	1.589	2.5	S	
6	S	Phenol-D6 (S)	1.954	2.027	3.7	S	
7	*TM	Phenol	2.239	2.323	3.8	*TM	
8	TM	Aniline	1.755	1.691	3.7	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9088	0.47	TM	
10	TM	2-Chlorophenol	1.864	1.961	5.2	TM	
11	TM	1,3-DCB	1.992	2.085	4.7	TM	
12	*TM	1,4-DCB	2.033	2.130	4.8	*TM	
13	TM	Benzyl alcohol	1.042	1.062	1.9	TM	
14	TM	1,2-DCB	1.910	1.974	3.4	TM	
15	TM	2-Methylphenol	1.379	1.407	2.0	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.221	2.9	TM	
17	TM	Acetophenone	2.406	2.408	0.07	TM	
18	TM	3&4-Methylphenol	1.915	2.008	4.8	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.240	2.3	**TM	
20	TM	Hexachloroethane	0.7164	0.7306	2.0	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4355	4.1	S	
23	TM	Nitrobenzene	0.4309	0.4415	2.5	TM	
24	TM	Isophorone	0.7379	0.7603	3.0	TM	
25	*TM	2-Nitrophenol	0.2595	0.2802	8.0	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4249	4.8	TM	
27	TML	Benzoic acid	0.2281	0.3012	32	TML	9.4
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4877	4.1	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4166	3.3	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4673	4.0	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5631	0.57	TM	
32	TM	Naphthalene	1.312	1.402	6.9	TM	
33	TM	4-Chloroaniline	0.5518	0.5444	1.4	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.4149	4.4	TM	
35	TM	Hexachloropropene	0.3271	0.3263	0.24	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2782	0.79	*TM	
37	TM	Caprolactum	0.1313	0.1378	5.0	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4146	0.59	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.9285	4.9	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9676	5.6	TM	
		Average			4.6		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 11/10/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1102Y110.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.4303	23	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8423	4.4	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5541	3.4	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5999	6.9	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.755	4.1	S	
47	TM	1,1'-Biphenyl	1.924	1.999	3.9	TM	
48	TM	2-Chloronaphthalene	1.522	1.587	4.3	TM	
49	TM	2-Nitroaniline	0.3796	0.3855	1.6	TM	
50	TM	Dimethyl phthalate	1.821	1.873	2.9	TM	
51	TM	2,6-DNT	0.4045	0.4338	7.2	TM	
52	TM	Acenaphthylene	2.334	2.460	5.4	TM	
53	TM	3-Nitroaniline	0.5014	0.5517	10	TM	
54	*TM	Acenaphthene	1.551	1.588	2.4	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.2890	45	**TML	26
56	**TM	4-Nitrophenol	0.2824	0.3187	13	**TM	
57	TM	Dibenzofuran	2.210	2.268	2.6	TM	
58	TM	2,4-DNT	0.5755	0.6136	6.6	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4889	4.3	TM	
60	TM	Diethyl phthalate	1.778	1.808	1.7	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.076	5.0	TM	
62	TM	Fluorene	1.828	1.921	5.1	TM	
63	TM	4-Nitroaniline	0.4196	0.4501	7.3	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2961	2.3	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2213	14	TM	
67	TM	Diphenyl amine	0.7572	0.8253	9.0	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.8253	9.0	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7739	5.6	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3168	5.8	TM	
71	TM	Hexachlorobenzene	0.3219	0.3402	5.7	TM	
72	TM	Atrazine	0.2783	0.2692	3.2	TM	
73	*TM	Pentachlorophenol	0.2190	0.2226	1.6	*TM	
74	TM	Phenanthrene	1.358	1.447	6.5	TM	
75	TM	Anthracene	1.412	1.512	7.1	TM	
76	TM	Carbazol	1.270	1.370	7.9	TM	
77	TM	Di-n-butylphthalate	1.536	1.650	7.4	TM	
78	*TM	Fluoranthene	1.570	1.674	6.6	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.3575	20	TM	
		Average			7.6		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 11/10/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1102Y110.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Pyrene	1.596	1.676	5.0	TM	
82	S	Terphenyl-D14(S)	1.153	1.218	5.6	S	
83	TM	Butyl benzylphthalate	0.6574	0.7180	9.2	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6276	19	TM	
85	TM	Benz (a) anthracene	1.607	1.685	4.9	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	1.002	8.7	TM	
87	TM	Chrysene	1.546	1.628	5.3	TM	
88	*TM	Di-n-octylphthalate	1.510	1.737	15	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.766	14	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.498	0.36	TM	
92	*TM	Benzo (a) pyrene	1.419	1.566	10	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.757	9.7	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.540	10	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.493	7.2	TM	
96							
97							
98							
99							
100							
101							
102							
103							
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108							
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110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			8.9		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y110.D Vial: 10
Acq On : 10 Nov 20 21:04 Operator: MA
Sample : 50ug/mL 8270 8/16/20(3) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 11 10:08 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	172519	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	686318	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	409756	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	789396	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	818554	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	791309	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	685128	102.46410 ppb	0.01
Spiked Amount 200.000			Recovery =	51.232%	
6) Phenol-D6 (S)	4.72	99	874287	103.71710 ppb	0.01
Spiked Amount 200.000			Recovery =	51.859%	
22) Nitrobenzene-D5(S)	5.73	82	373597	52.04013 ppb	0.00
Spiked Amount 100.000			Recovery =	52.040%	
46) 2-Fluorobiphenyl(S)	7.77	172	898768	52.04166 ppb	0.00
Spiked Amount 100.000			Recovery =	52.042%	
64) 2,4,6-Tribromophenol(S)	9.47	330	303336	102.33251 ppb	0.00
Spiked Amount 200.000			Recovery =	51.167%	
82) Terphenyl-D14(S)	12.14	244	1245756	52.79731 ppb	-0.02
Spiked Amount 100.000			Recovery =	52.797%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	7958	5.14320	95
3) n-Nitrosodimethylamine	2.03	42	136340	57.00142 ppb	98
4) Pyridine	2.06	79	375078	56.06941 ppb	95
7) Phenol	4.73	94	500861	51.87590 ppb	94
8) Aniline	4.75	93	364608	48.17345 ppb	100
9) Bis (2-chloroethyl) ether	4.83	63	195971	50.23275 ppb	84
10) 2-Chlorophenol	4.88	128	422810	52.60595 ppb	95
11) 1,3-DCB	5.05	146	449586	52.33832 ppb	99
12) 1,4-DCB	5.13	146	459291	52.38362 ppb	99
13) Benzyl alcohol	5.27	108	229027	50.95732 ppb	88
14) 1,2-DCB	5.30	146	425799	51.67570 ppb	95
15) 2-Methylphenol	5.39	107	303339	50.99356 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	263262	51.46751 ppb	99
17) Acetophenone	5.56	105	519187	50.03595 ppb	90
18) 3&4-Methylphenol	5.57	107	865955	104.82926 ppb	99
19) n-Nitrosodi-n-propylamine	5.56	70	267411	51.16349 ppb	89
20) Hexachloroethane	5.67	117	157547	50.99118 ppb	97
23) Nitrobenzene	5.74	77	378719	51.22782 ppb	96
24) Isophorone	6.01	82	652282	51.52214 ppb	100
25) 2-Nitrophenol	6.10	139	240401	54.00018 ppb	93
26) 2,4-Dimethylphenol	6.15	122	364559	52.41936 ppb	95
27) Benzoic acid	6.28	105	258422	54.68212 ppb	98
28) Bis (2-chloroethoxy) metha	6.25	93	418431	52.05795 ppb	99
29) 2,4-Dichlorophenol	6.37	162	357371	51.65019 ppb	98
30) 1,2,4-Trichlorobenzene	6.46	180	400877	51.98894 ppb	99
31) 3,4-Dimethylphenol	6.49	107	483043	49.71550 ppb	97
32) Naphthalene	6.55	128	1202352	53.42644 ppb	100
33) 4-Chloroaniline	6.62	127	467007	49.32331 ppb #	94
34) 2,6-Dichlorophenol	6.63	162	355913	52.19613 ppb	96
35) Hexachloropropene	6.65	213	279920	49.88190 ppb	99
36) Hexachlorobutadiene	6.69	225	238671	50.39730 ppb	100
37) Caprolactum	7.03	55	118243	52.47528 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y110.D Vial: 10
Acq On : 10 Nov 20 21:04 Operator: MA
Sample : 50ug/mL 8270 8/16/20(3) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 11 10:08 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	355647	50.29309	ppb		95
39)	2-Methylnaphthalene	7.34	142	796526	52.44289	ppb		98
40)	1-Methylnaphthalene	7.45	142	830127	52.77572	ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	220416	38.60461	ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	431437	52.18623	ppb		96
44)	2,4,6-Trichlorophenol	7.67	196	283817	51.71675	ppb		95
45)	2,4,5-Trichlorophenol	7.72	196	307251	53.44096	ppb		96
47)	1,1'-Biphenyl	7.88	154	1023814	51.94679	ppb		99
48)	2-Chloronaphthalene	7.90	162	812885	52.14842	ppb		99
49)	2-Nitroaniline	8.02	65	197476	50.77840	ppb		85
50)	Dimethyl phthalate	8.24	163	959424	51.44128	ppb		100
51)	2,6-DNT	8.31	165	222173	53.61999	ppb		92
52)	Acenaphthylene	8.38	152	1260167	52.69692	ppb		100
53)	3-Nitroaniline	8.02	138	282578	55.01911	ppb		94
54)	Acenaphthene	8.58	154	813505	51.19450	ppb		99
55)	2,4-Dinitrophenol	8.62	184	148010	63.24284	ppb		97
56)	4-Nitrophenol	8.71	65	163227	56.41605	ppb		84
57)	Dibenzofuran	8.78	168	1161566	51.31608	ppb		99
58)	2,4-DNT	8.77	165	314267	53.30851	ppb		92
59)	2,3,4,6-Tetrachlorophenol	8.93	232	250410	52.15304	ppb		94
60)	Diethyl phthalate	9.07	149	926070	50.83586	ppb		99
61)	4-Chlorophenyl phenyl ethe	9.19	204	551236	52.47834	ppb		92
62)	Fluorene	9.18	166	983892	52.54871	ppb		99
63)	4-Nitroaniline	8.50	138	230526	53.62629	ppb		87
66)	4,6-Dinitro-2-methylphenol	9.24	198	218361	56.85547	ppb		86
67)	Diphenyl amine	9.33	169	1628773	108.99256	ppb		99
68)	n-Nitrosodiphenylamine	9.33	169	1628773	108.99256	ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	763688	52.78647	ppb		90
70)	4-Bromophenyl phenyl ether	9.75	248	312587	52.88111	ppb	#	86
71)	Hexachlorobenzene	9.82	284	335698	52.84214	ppb		98
72)	Atrazine	9.96	200	132833	24.18894	ppb		99
73)	Pentachlorophenol	10.05	266	219677	50.82069	ppb		99
74)	Phenanthrene	10.30	178	1427693	53.26642	ppb		99
75)	Anthracene	10.36	178	1491542	53.54422	ppb		99
76)	Carbazol	10.55	167	1351405	53.93437	ppb		95
77)	Di-n-butylphthalate	10.97	149	1627790	53.68298	ppb		99
78)	Fluoranthene	11.69	202	1651470	53.28617	ppb		99
80)	Benzidine	11.85	184	365808	39.87388	ppb	#	97
81)	Pyrene	11.95	202	1715004	52.52357	ppb		100
83)	Butyl benzylphthalate	12.73	149	734625	54.60455	ppb		99
84)	3,3'-Dichlorobenzidine	13.33	252	642117	59.39387	ppb	#	97
85)	Benz (a) anthracene	13.35	228	1723788	52.42839	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.39	149	1025391	54.34932	ppb		98
87)	Chrysene	13.38	228	1665302	52.63268	ppb		99
88)	Di-n-octylphthalate	14.12	149	1777423	57.53498	ppb		97
90)	Benzo (b) fluoranthene	14.57	252	1746732	56.89143	ppb		99
91)	Benzo (k) fluoranthene	14.61	252	1481706	49.81979	ppb		100
92)	Benzo (a) pyrene	14.99	252	1548619	55.16297	ppb		100
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1737990	54.83262	ppb		97
94)	Dibenz (a,h) anthracene	16.78	278	1523528	55.17687	ppb		98
95)	Benzo (g,h,i) perylene	17.24	276	1476544	53.62376	ppb		98

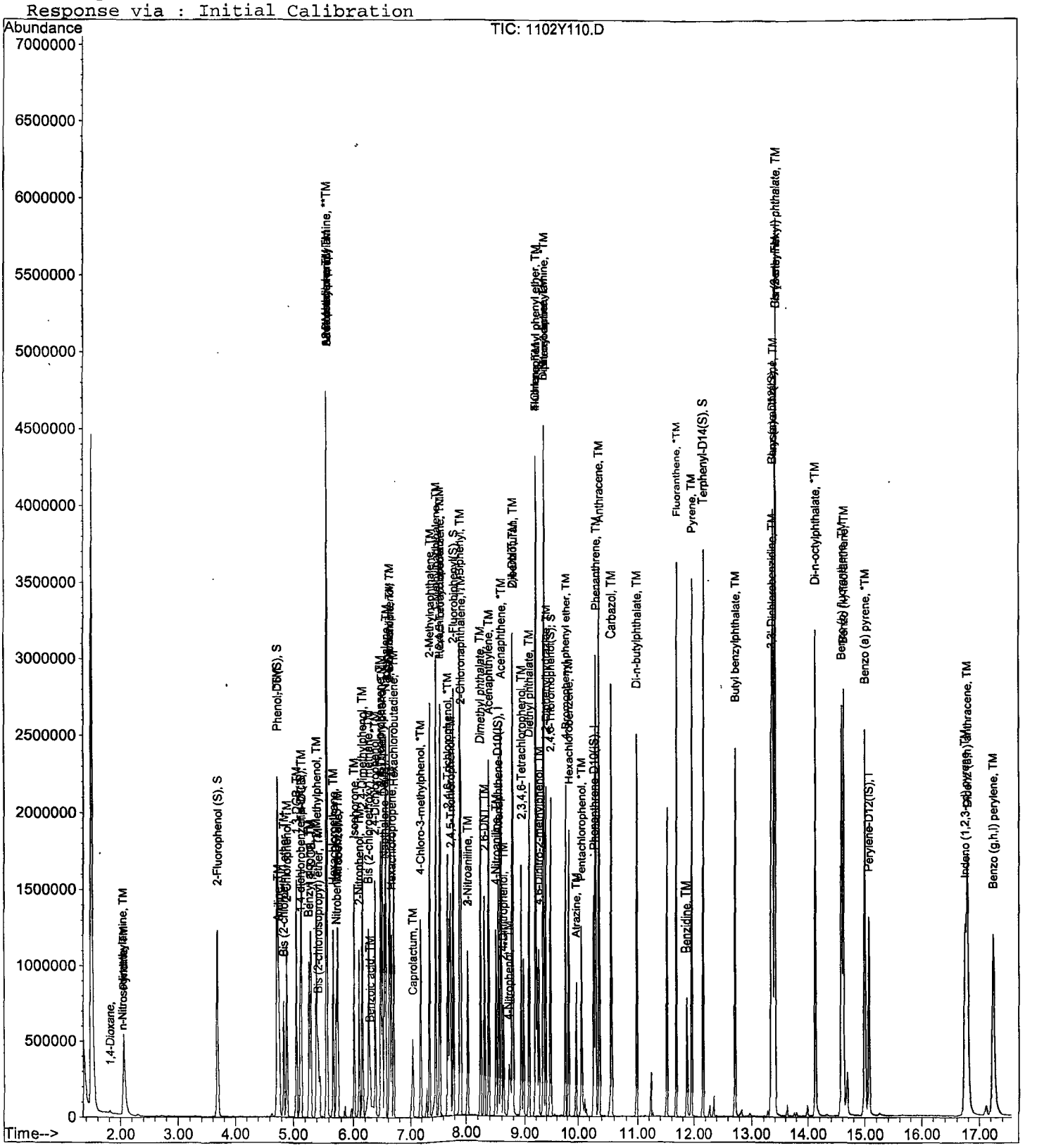
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y110.D Vial: 10
Acq On : 10 Nov 20 21:04 Operator: MA
Sample : 50ug/mL 8270 8/16/20(3) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 11 10:08 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 11/11/20
Matrix: Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1102Y114.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I		
2		1,4-Dioxane	0.3588	0.4408	23			*NT
3	TM	n-Nitrosodimethylamine	0.5546	0.6064	9.3	TM		
4	TM	Pyridine	1.551	1.650	6.4	TM		
5	S	2-Fluorophenol (S)	1.550	1.598	3.1	S		
6	S	Phenol-D6 (S)	1.954	2.025	3.6	S		
7	*TM	Phenol	2.239	2.325	3.9	*TM		
8	TM	Aniline	1.755	1.740	0.83	TM		
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9318	3.0	TM		
10	TM	2-Chlorophenol	1.864	1.895	1.7	TM		
11	TM	1,3-DCB	1.992	1.997	0.27	TM		
12	*TM	1,4-DCB	2.033	2.038	0.27	*TM		
13	TM	Benzyl alcohol	1.042	1.063	2.0	TM		
14	TM	1,2-DCB	1.910	1.915	0.25	TM		
15	TM	2-Methylphenol	1.379	1.393	1.0	TM		
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.220	2.9	TM		
17	TM	Acetophenone	2.406	2.373	1.4	TM		
18	TM	3&4-Methylphenol	1.915	1.940	1.3	TM		
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.220	0.67	**TM		
20	TM	Hexachloroethane	0.7164	0.7056	1.5	TM		
21	I	Napthalene-D8(IS)	ISTD			I		
22	S	Nitrobenzene-D5(S)	0.4184	0.4303	2.8	S		
23	TM	Nitrobenzene	0.4309	0.4328	0.44	TM		
24	TM	Isophorone	0.7379	0.7460	1.1	TM		
25	*TM	2-Nitrophenol	0.2595	0.2687	3.6	*TM		
26	TM	2,4-Dimethylphenol	0.4053	0.4157	2.6	TM		
27	TML	Benzoic acid	0.2281	0.3327	46	TML		19
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4855	3.6	TM		
29	*TM	2,4-Dichlorophenol	0.4033	0.4092	1.5	*TM		
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4591	2.2	TM		
31	TM	3,4-Dimethylphenol	0.5663	0.5668	0.10	TM		
32	TM	Naphthalene	1.312	1.358	3.5	TM		
33	TM	4-Chloroaniline	0.5518	0.5465	0.97	TM		
34	TM	2,6-Dichlorophenol	0.3974	0.4075	2.5	TM		
35	TM	Hexachloropropene	0.3271	0.3171	3.0	TM		
36	*TM	Hexachlorobutadiene	0.2760	0.2685	2.7	*TM		
37	TM	Caprolactum	0.1313	0.1350	2.8	TM		
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4100	0.53	*TM		
39	TM	2-Methylnaphthalene	0.8852	0.9030	2.0	TM		
40	TM	1-Methylnaphthalene	0.9167	0.9172	0.05	TM		
		Average			3.9			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 11/11/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1102Y114.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.4744	15	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8191	1.5	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5354	0.06	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5674	1.1	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.757	4.2	S	
47	TM	1,1'-Biphenyl	1.924	1.974	2.6	TM	
48	TM	2-Chloronaphthalene	1.522	1.551	1.9	TM	
49	TM	2-Nitroaniline	0.3796	0.3755	1.1	TM	
50	TM	Dimethyl phthalate	1.821	1.823	0.10	TM	
51	TM	2,6-DNT	0.4045	0.4135	2.2	TM	
52	TM	Acenaphthylene	2.334	2.400	2.8	TM	
53	TM	3-Nitroaniline	0.5014	0.5252	4.8	TM	
54	*TM	Acenaphthene	1.551	1.525	1.7	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.2421	22	**TML	11
56	**TM	4-Nitrophenol	0.2824	0.2926	3.6	**TM	
57	TM	Dibenzofuran	2.210	2.221	0.50	TM	
58	TM	2,4-DNT	0.5755	0.5819	1.1	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4631	1.2	TM	
60	TM	Diethyl phthalate	1.778	1.763	0.86	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.022	0.34	TM	
62	TM	Fluorene	1.828	1.850	1.2	TM	
63	TM	4-Nitroaniline	0.4196	0.4414	5.2	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2901	0.25	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2032	4.4	TM	
67	TM	Diphenyl amine	0.7572	0.7700	1.7	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7700	1.7	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7344	0.18	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3013	0.58	TM	
71	TM	Hexachlorobenzene	0.3219	0.3204	0.47	TM	
72	TM	Atrazine	0.2783	0.2688	3.4	TM	
73	*TM	Pentachlorophenol	0.2190	0.2130	2.7	*TM	
74	TM	Phenanthrene	1.358	1.398	3.0	TM	
75	TM	Anthracene	1.412	1.430	1.3	TM	
76	TM	Carbazol	1.270	1.282	0.95	TM	
77	TM	Di-n-butylphthalate	1.536	1.533	0.25	TM	
78	*TM	Fluoranthene	1.570	1.590	1.2	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.4355	2.9	TM	
		Average			2.7		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 11/11/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1102Y114.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Pyrene	1.596	1.660	4.0	TM	
82	S	Terphenyl-D14(S)	1.153	1.194	3.6	S	
83	TM	Butyl benzylphthalate	0.6574	0.6977	6.1	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6109	16	TM	
85	TM	Benz (a) anthracene	1.607	1.674	4.2	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9726	5.5	TM	
87	TM	Chrysene	1.546	1.595	3.1	TM	
88	*TM	Di-n-octylphthalate	1.510	1.648	9.2	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.542	0.67	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.627	8.2	TM	
92	*TM	Benzo (a) pyrene	1.419	1.522	7.2	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.702	6.2	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.492	6.9	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.440	3.4	TM	
96							
97							
98							
99							
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120							
		Average			6.0		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y114.D Vial: 14
Acq On : 11 Nov 20 12:04 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 11 12:14 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	141897	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	567497	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	341230	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	667065	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	665673	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	645403	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	566807	103.06209 ppb	0.01
Spiked Amount 200.000			Recovery =	51.531%	
6) Phenol-D6 (S)	4.72	99	718446	103.62253 ppb	0.01
Spiked Amount 200.000			Recovery =	51.812%	
22) Nitrobenzene-D5(S)	5.73	82	305233	51.41956 ppb	0.00
Spiked Amount 100.000			Recovery =	51.420%	
46) 2-Fluorobiphenyl(S)	7.77	172	749523	52.11546 ppb	0.00
Spiked Amount 100.000			Recovery =	52.115%	
64) 2,4,6-Tribromophenol(S)	9.47	330	247460	100.24733 ppb	0.00
Spiked Amount 200.000			Recovery =	50.124%	
82) Terphenyl-D14(S)	12.14	244	993884	51.79656 ppb	-0.02
Spiked Amount 100.000			Recovery =	51.797%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	7818	6.14312	68
3) n-Nitrosodimethylamine	2.03	42	107552	54.66943 ppb	100
4) Pyridine	2.06	79	292702	53.19781 ppb	99
7) Phenol	4.73	94	412399	51.93137 ppb	98
8) Aniline	4.75	93	308672	49.58411 ppb	98
9) Bis (2-chloroethyl) ether	4.83	63	165271	51.50573 ppb	87
10) 2-Chlorophenol	4.88	128	336134	50.84706 ppb	95
11) 1,3-DCB	5.05	146	354217	50.13489 ppb	99
12) 1,4-DCB	5.13	146	361548	50.13457 ppb	99
13) Benzyl alcohol	5.27	108	188534	51.00036 ppb	88
14) 1,2-DCB	5.30	146	339697	50.12301 ppb	95
15) 2-Methylphenol	5.39	107	247153	50.51458 ppb	100
16) Bis (2-chloroisopropyl) et	5.42	45	216457	51.44941 ppb	99
17) Acetophenone	5.56	105	420910	49.31867 ppb	92
18) 3&4-Methylphenol	5.57	107	688344	101.31096 ppb	98
19) n-Nitrosodi-n-propylamine	5.56	70	216377	50.33333 ppb	90
20) Hexachloroethane	5.67	117	125145	49.24500 ppb	98
23) Nitrobenzene	5.74	77	306983	50.21864 ppb	98
24) Isophorone	6.01	82	529205	50.55269 ppb	99
25) 2-Nitrophenol	6.10	139	190607	51.77971 ppb	94
26) 2,4-Dimethylphenol	6.15	122	294887	51.27921 ppb	96
27) Benzoic acid	6.27	105	236028	59.53281 ppb	98
28) Bis (2-chloroethoxy) metha	6.25	93	344371	51.81453 ppb	99
29) 2,4-Dichlorophenol	6.37	162	290300	50.74129 ppb	98
30) 1,2,4-Trichlorobenzene	6.46	180	325651	51.07566 ppb	100
31) 3,4-Dimethylphenol	6.49	107	402092	50.04876 ppb	97
32) Naphthalene	6.55	128	963440	51.77392 ppb	100
33) 4-Chloroaniline	6.62	127	387646	49.51376 ppb	95
34) 2,6-Dichlorophenol	6.63	162	289044	51.26492 ppb	96
35) Hexachloropropene	6.65	213	224931	48.47527 ppb	97
36) Hexachlorobutadiene	6.69	225	190456	48.63670 ppb	99
37) Caprolactum	7.03	55	95798	51.41591 ppb	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y114.D Vial: 14
Acq On : 11 Nov 20 12:04 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 11 12:14 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	290821	49.73668 ppb		94
39)	2-Methylnaphthalene	7.34	142	640597	51.00742 ppb		100
40)	1-Methylnaphthalene	7.45	142	650654	50.02667 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	202368	42.56141 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	349364	50.74519 ppb		97
44)	2,4,6-Trichlorophenol	7.67	196	228372	49.97051 ppb		96
45)	2,4,5-Trichlorophenol	7.71	196	242035	50.55188 ppb	#	92
47)	1,1'-Biphenyl	7.88	154	841995	51.30094 ppb		99
48)	2-Chloronaphthalene	7.90	162	661535	50.96159 ppb		99
49)	2-Nitroaniline	8.02	65	160176	49.45842 ppb		83
50)	Dimethyl phthalate	8.24	163	777385	50.05131 ppb		100
51)	2,6-DNT	8.31	165	176386	51.11845 ppb		96
52)	Acenaphthylene	8.38	152	1023504	51.39546 ppb		99
53)	3-Nitroaniline	8.02	138	224018	52.37648 ppb		92
54)	Acenaphthene	8.59	154	650265	49.13960 ppb		99
55)	2,4-Dinitrophenol	8.62	184	103245	55.64325 ppb		97
56)	4-Nitrophenol	8.72	65	124785	51.79062 ppb		84
57)	Dibenzofuran	8.78	168	947196	50.24902 ppb		99
58)	2,4-DNT	8.77	165	248195	50.55555 ppb		95
59)	2,3,4,6-Tetrachlorophenol	8.93	232	197523	49.39964 ppb		94
60)	Diethyl phthalate	9.07	149	752009	49.57098 ppb		100
61)	4-Chlorophenyl phenyl ethe	9.19	204	435881	49.82973 ppb		92
62)	Fluorene	9.18	166	789283	50.62039 ppb		99
63)	4-Nitroaniline	8.50	138	188292	52.59783 ppb		84
66)	4,6-Dinitro-2-methylphenol	9.24	198	169466	52.21635 ppb		94
67)	Diphenyl amine	9.33	169	1284058	101.68284 ppb		99
68)	n-Nitrosodiphenylamine	9.33	169	1284058	101.68284 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	612395	50.09162 ppb		91
70)	4-Bromophenyl phenyl ether	9.75	248	251204	50.29015 ppb	#	88
71)	Hexachlorobenzene	9.82	284	267146	49.76306 ppb		97
72)	Atrazine	9.96	200	112049	24.14603 ppb		98
73)	Pentachlorophenol	10.05	266	177642	48.63270 ppb		98
74)	Phenanthrene	10.30	178	1165932	51.47765 ppb		99
75)	Anthracene	10.36	178	1192551	50.66182 ppb		99
76)	Carbazol	10.55	167	1068706	50.47369 ppb		96
77)	Di-n-butylphthalate	10.97	149	1277976	49.87555 ppb		99
78)	Fluoranthene	11.69	202	1325742	50.62087 ppb		99
80)	Benzidine	11.85	184	362394	48.57386 ppb	#	97
81)	Pyrene	11.95	202	1381180	52.01466 ppb		99
83)	Butyl benzylphthalate	12.73	149	580551	53.06277 ppb		99
84)	3,3'-Dichlorobenzidine	13.33	252	508335	57.81811 ppb	#	97
85)	Benz (a) anthracene	13.35	228	1393279	52.10833 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.39	149	809316	52.74838 ppb		99
87)	Chrysene	13.38	228	1326950	51.57075 ppb		99
88)	Di-n-octylphthalate	14.12	149	1371254	54.58150 ppb		96
90)	Benzo (b) fluoranthene	14.57	252	1243666	49.66375 ppb		99
91)	Benzo (k) fluoranthene	14.60	252	1312413	54.10351 ppb	#	97
92)	Benzo (a) pyrene	14.99	252	1227661	53.61628 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1372697	53.09841 ppb		97
94)	Dibenz (a,h) anthracene	16.78	278	1203720	53.44994 ppb		98
95)	Benzo (g,h,i) perylene	17.24	276	1161434	51.71548 ppb		98

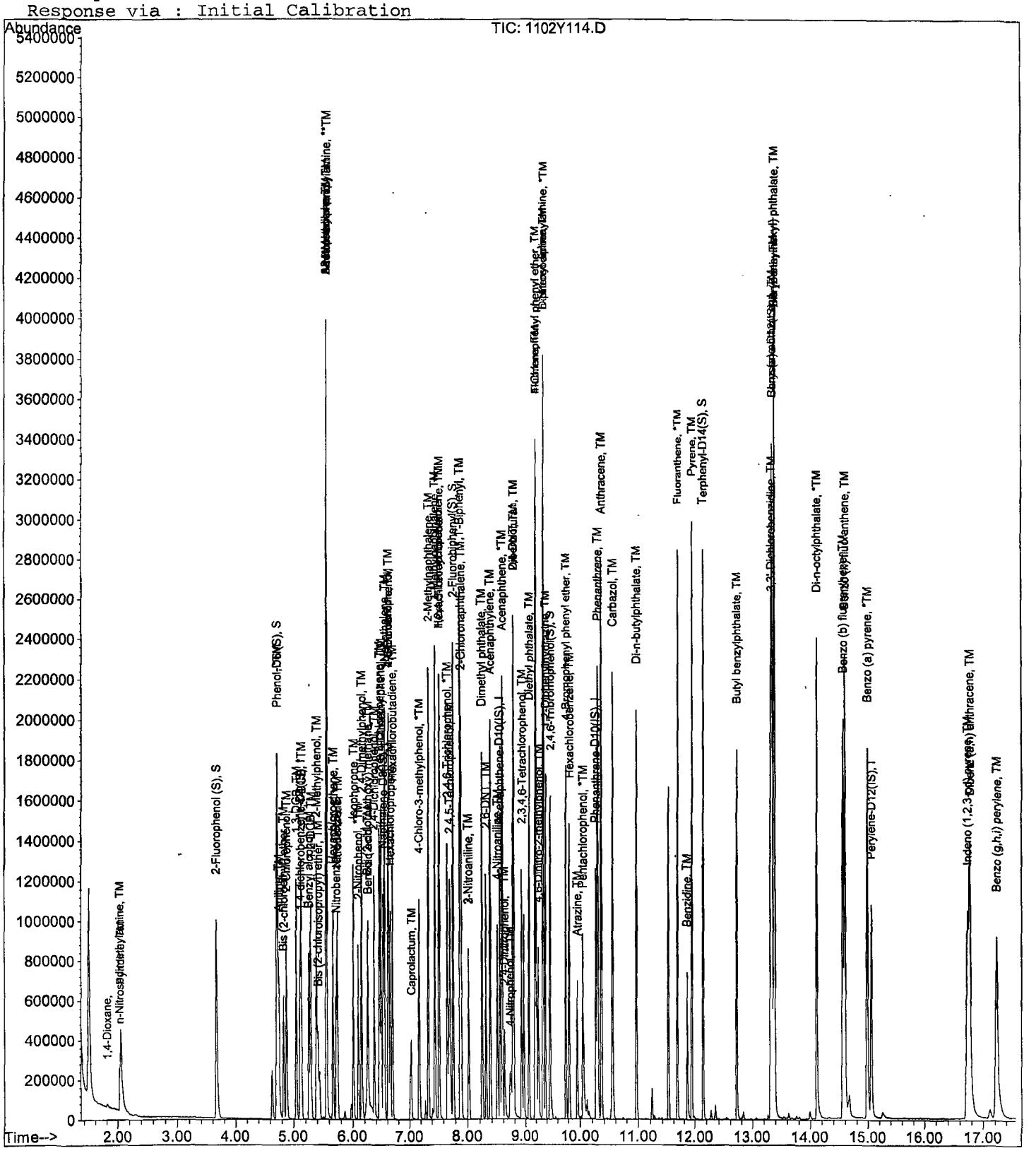
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y114.D Vial: 14
Acq On : 11 Nov 20 12:04 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 11 12:14 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 11/11/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1102Y127.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3816	6.4		
3	TM	n-Nitrosodimethylamine	0.5546	0.6326	14	TM	
4	TM	Pyridine	1.551	1.734	12	TM	
5	S	2-Fluorophenol (S)	1.550	1.584	2.2	S	
6	S	Phenol-D6 (S)	1.954	2.039	4.3	S	
7	*TM	Phenol	2.239	2.377	6.2	*TM	
8	TM	Aniline	1.755	1.551	12	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9429	4.2	TM	
10	TM	2-Chlorophenol	1.864	1.936	3.9	TM	
11	TM	1,3-DCB	1.992	2.064	3.6	TM	
12	*TM	1,4-DCB	2.033	2.088	2.7	*TM	
13	TM	Benzyl alcohol	1.042	1.067	2.4	TM	
14	TM	1,2-DCB	1.910	1.979	3.6	TM	
15	TM	2-Methylphenol	1.379	1.412	2.4	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.241	4.6	TM	
17	TM	Acetophenone	2.406	2.420	0.59	TM	
18	TM	3&4-Methylphenol	1.915	1.989	3.9	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.247	2.9	**TM	
20	TM	Hexachloroethane	0.7164	0.7255	1.3	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4434	6.0	S	
23	TM	Nitrobenzene	0.4309	0.4550	5.6	TM	
24	TM	Isophorone	0.7379	0.7886	6.9	TM	
25	*TM	2-Nitrophenol	0.2595	0.2872	11	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4351	7.3	TM	
27	TML	Benzoic acid	0.2281	0.3900	71	TML	37
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.5132	9.5	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4380	8.6	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4780	6.4	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5888	4.0	TM	
32	TM	Naphthalene	1.312	1.416	7.9	TM	
33	TM	4-Chloroaniline	0.5518	0.5606	1.6	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.4212	6.0	TM	
35	TM	Hexachloropropene	0.3271	0.3262	0.25	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2793	1.2	*TM	
37	TM	Caprolactum	0.1313	0.1501	14	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4378	6.2	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.9604	8.5	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9946	8.5	TM	
		Average			7.5		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 11/11/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1102Y127.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.4997	10	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8327	3.2	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5461	1.9	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5813	3.6	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.698	0.72	S	
47	TM	1,1'-Biphenyl	1.924	2.003	4.1	TM	
48	TM	2-Chloronaphthalene	1.522	1.563	2.7	TM	
49	TM	2-Nitroaniline	0.3796	0.4045	6.6	TM	
50	TM	Dimethyl phthalate	1.821	1.856	2.0	TM	
51	TM	2,6-DNT	0.4045	0.4427	9.5	TM	
52	TM	Acenaphthylene	2.334	2.432	4.2	TM	
53	TM	3-Nitroaniline	0.5014	0.5477	9.2	TM	
54	*TM	Acenaphthene	1.551	1.586	2.3	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.2633	33	**TML	18
56	**TM	4-Nitrophenol	0.2824	0.3226	14	**TM	
57	TM	Dibenzofuran	2.210	2.303	4.2	TM	
58	TM	2,4-DNT	0.5755	0.6161	7.0	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4851	3.5	TM	
60	TM	Diethyl phthalate	1.778	1.784	0.31	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.032	0.62	TM	
62	TM	Fluorene	1.828	1.930	5.6	TM	
63	TM	4-Nitroaniline	0.4196	0.4509	7.4	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2858	1.2	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2147	10	TM	
67	TM	Diphenyl amine	0.7572	0.8288	9.5	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.8288	9.5	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7799	6.4	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3218	7.4	TM	
71	TM	Hexachlorobenzene	0.3219	0.3352	4.1	TM	
72	TM	Atrazine	0.2783	0.2595	6.7	TM	
73	*TM	Pentachlorophenol	0.2190	0.2247	2.6	*TM	
74	TM	Phenanthrene	1.358	1.443	6.3	TM	
75	TM	Anthracene	1.412	1.514	7.2	TM	
76	TM	Carbazol	1.270	1.347	6.1	TM	
77	TM	Di-n-butylphthalate	1.536	1.659	8.0	TM	
78	*TM	Fluoranthene	1.570	1.676	6.7	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.4145	7.5	TM	
		Average			6.3		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 11/11/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1102Y127.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Pyrene	1.596	1.751	9.7	TM	
82	S	Terphenyl-D14(S)	1.153	1.252	8.6	S	
83	TM	Butyl benzylphthalate	0.6574	0.7356	12	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6667	26	TM	
85	TM	Benz (a) anthracene	1.607	1.730	7.7	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	1.025	11	TM	
87	TM	Chrysene	1.546	1.698	9.8	TM	
88	*TM	Di-n-octylphthalate	1.510	1.766	17	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.748	13	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.528	1.6	TM	
92	*TM	Benzo (a) pyrene	1.419	1.567	10	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.749	9.2	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.558	12	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.499	7.7	TM	
96							
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118							
119							
120							
		Average			11.1		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y127.D Vial: 27
Acq On : 11 Nov 20 17:46 Operator: MA
Sample : 50ug/mL 8270 8/16/20(3) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 12 9:10 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	172675	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.52	136	671801	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	416679	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	794223	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.36	240	797102	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.06	264	774364	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.67	112	683776	102.16952 ppb		0.00
Spiked Amount 200.000			Recovery =	51.085%		
6) Phenol-D6 (S)	4.72	99	880108	104.31332 ppb		0.00
Spiked Amount 200.000			Recovery =	52.157%		
22) Nitrobenzene-D5(S)	5.72	82	372370	52.99006 ppb		0.00
Spiked Amount 100.000			Recovery =	52.990%		
46) 2-Fluorobiphenyl(S)	7.77	172	884380	50.35773 ppb		0.00
Spiked Amount 100.000			Recovery =	50.358%		
64) 2,4,6-Tribromophenol(S)	9.47	330	297739	98.77547 ppb		0.00
Spiked Amount 200.000			Recovery =	49.388%		
82) Terphenyl-D14(S)	12.14	244	1247368	54.28838 ppb		-0.02
Spiked Amount 100.000			Recovery =	54.288%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	8237	5.31871		99
3) n-Nitrosodimethylamine	2.04	42	136533	57.03054 ppb		86
4) Pyridine	2.06	79	374227	55.89165 ppb		97
7) Phenol	4.74	94	513044	53.08973 ppb		97
8) Aniline	4.76	93	334848	44.20147 ppb		98
9) Bis (2-chloroethyl) ether	4.83	63	203527	52.12243 ppb		94
10) 2-Chlorophenol	4.89	128	417878	51.94534 ppb		99
11) 1,3-DCB	5.05	146	445397	51.80381 ppb		96
12) 1,4-DCB	5.13	146	450754	51.36350 ppb		99
13) Benzyl alcohol	5.27	108	230297	51.19359 ppb		94
14) 1,2-DCB	5.30	146	427086	51.78507 ppb		94
15) 2-Methylphenol	5.39	107	304739	51.18263 ppb		99
16) Bis (2-chloroisopropyl) et	5.42	45	267888	52.32458 ppb		97
17) Acetophenone	5.56	105	522340	50.29434 ppb		85
18) 3&4-Methylphenol	5.57	107	858687	103.85551 ppb		98
19) n-Nitrosodi-n-propylamine	5.57	70	269249	51.46861 ppb		99
20) Hexachloroethane	5.67	117	156596	50.63760 ppb		90
23) Nitrobenzene	5.74	77	382127	52.80576 ppb		93
24) Isophorone	6.01	82	662229	53.43816 ppb		95
25) 2-Nitrophenol	6.10	139	241170	55.34354 ppb	#	89
26) 2,4-Dimethylphenol	6.15	122	365338	53.66652 ppb		99
27) Benzoic acid	6.29	105	327483	68.34804 ppb		97
28) Bis (2-chloroethoxy) metha	6.26	93	430929	54.77138 ppb		98
29) 2,4-Dichlorophenol	6.37	162	367839	54.31192 ppb		94
30) 1,2,4-Trichlorobenzene	6.47	180	401394	53.18087 ppb		95
31) 3,4-Dimethylphenol	6.49	107	494410	51.98500 ppb		97
32) Naphthalene	6.55	128	1188725	53.96234 ppb		99
33) 4-Chloroaniline	6.62	127	470750	50.79300 ppb		97
34) 2,6-Dichlorophenol	6.62	162	353708	52.99368 ppb		97
35) Hexachloropropene	6.65	213	273964	49.87551 ppb		99
36) Hexachlorobutadiene	6.70	225	234521	50.59110 ppb		97
37) Caprolactum	7.04	55	126076	57.16056 ppb		95

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y201102\1102Y127.D Vial: 27
Acq On : 11 Nov 20 17:46 Operator: MA
Sample : 50ug/mL 8270 8/16/20(3) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 12 9:10 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	367648	53.11365	ppb		98
39)	2-Methylnaphthalene	7.34	142	806508	54.24755	ppb		100
40)	1-Methylnaphthalene	7.45	142	835216	54.24668	ppb		98
42)	Hexachlorocyclopentadiene	7.53	237	260288	44.83054	ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.53	216	433703	51.58871	ppb		95
44)	2,4,6-Trichlorophenol	7.67	196	284445	50.97002	ppb		96
45)	2,4,5-Trichlorophenol	7.72	196	302777	51.78781	ppb		96
47)	1,1'-Biphenyl	7.88	154	1043068	52.04440	ppb		99
48)	2-Chloronaphthalene	7.91	162	813862	51.34362	ppb		95
49)	2-Nitroaniline	8.03	65	210699	53.27836	ppb		100
50)	Dimethyl phthalate	8.24	163	966903	50.98094	ppb		99
51)	2,6-DNT	8.31	165	230586	54.72580	ppb	#	81
52)	Acenaphthylene	8.38	152	1266837	52.09566	ppb		99
53)	3-Nitroaniline	8.03	138	285257	54.61793	ppb		98
54)	Acenaphthene	8.58	154	826317	51.13680	ppb		98
55)	2,4-Dinitrophenol	8.62	184	137138	59.08416	ppb		97
56)	4-Nitrophenol	8.72	65	168027	57.11017	ppb		88
57)	Dibenzofuran	8.79	168	1199422	52.10811	ppb		90
58)	2,4-DNT	8.78	165	320872	53.52458	ppb		93
59)	2,3,4,6-Tetrachlorophenol	8.93	232	252686	51.75268	ppb		95
60)	Diethyl phthalate	9.07	149	929097	50.15464	ppb		98
61)	4-Chlorophenyl phenyl ethe	9.19	204	537379	50.30914	ppb		95
62)	Fluorene	9.18	166	1005397	52.80510	ppb		100
63)	4-Nitroaniline	8.50	138	234837	53.72149	ppb		94
66)	4,6-Dinitro-2-methylphenol	9.25	198	213137	55.15800	ppb	#	85
67)	Diphenyl amine	9.34	169	1645699	109.45589	ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1645699	109.45589	ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	774300	53.19470	ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	319446	53.71302	ppb		96
71)	Hexachlorobenzene	9.82	284	332765	52.06211	ppb		94
72)	Atrazine	9.96	200	128837	23.31868	ppb		98
73)	Pentachlorophenol	10.05	266	223087	51.29591	ppb		99
74)	Phenanthrene	10.30	178	1432978	53.13867	ppb		99
75)	Anthracene	10.36	178	1502658	53.61542	ppb		99
76)	Carbazol	10.55	167	1337651	53.06099	ppb		96
77)	Di-n-butylphthalate	10.98	149	1647359	53.99815	ppb		98
78)	Fluoranthene	11.68	202	1663532	53.34915	ppb		97
80)	Benzidine	11.85	184	413036	46.23348	ppb	#	97
81)	Pyrene	11.95	202	1744297	54.85837	ppb		98
83)	Butyl benzylphthalate	12.72	149	732974	55.94808	ppb		92
84)	3,3'-Dichlorobenzidine	13.33	252	664243	63.09398	ppb		97
85)	Benz (a) anthracene	13.35	228	1723448	53.82875	ppb		100
86)	Bis (2-ethylhexyl) phthala	13.39	149	1021094	55.57811	ppb		97
87)	Chrysene	13.39	228	1691385	54.89571	ppb		99
88)	Di-n-octylphthalate	14.12	149	1759688	58.49386	ppb		99
90)	Benzo (b) fluoranthene	14.57	252	1692070	56.31705	ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1478624	50.80407	ppb		99
92)	Benzo (a) pyrene	14.99	252	1516376	55.19642	ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1693043	54.58341	ppb		97
94)	Dibenz (a,h) anthracene	16.78	278	1507645	55.79646	ppb		99
95)	Benzo (g,h,i) perylene	17.25	276	1450692	53.83777	ppb		100

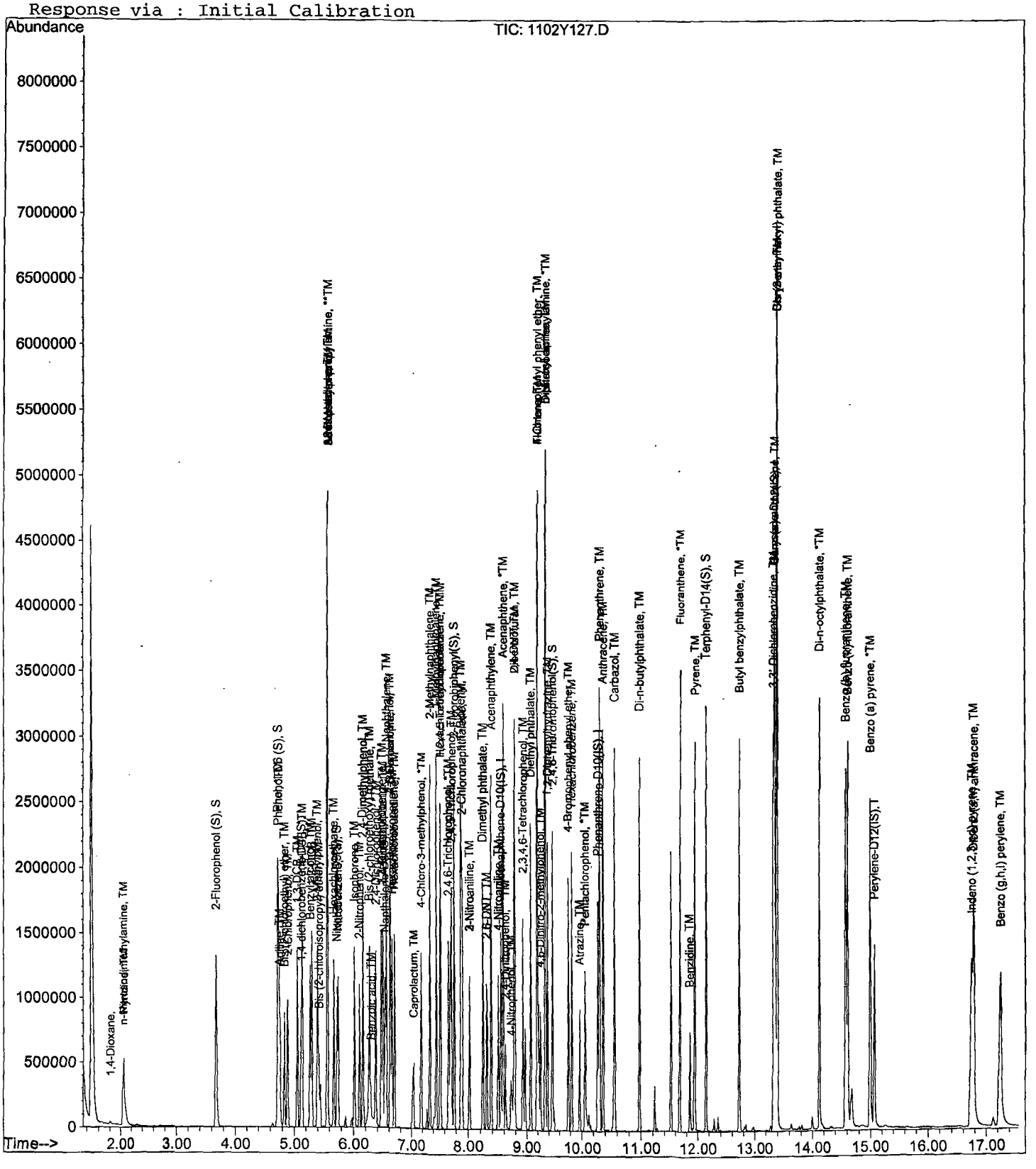
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y127.D Vial: 27
Acq On : 11 Nov 20 17:46 Operator: MA
Sample : 50ug/mL 8270 8/16/20(3) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Nov 12 9:10 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y186.D Vial: 86
Acq On : 22 Oct 20 11:59 Operator: MA
Sample : BA20184W13 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 22 12:44 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	143520	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	577107	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	345295	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	679802	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	681819	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	645269	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	791670	177.90113 ppb	0.01
Spiked Amount 250.000			Recovery	= 71.160%	
6) Phenol-D6 (S)	4.72	99	973285	173.48858 ppb	0.01
Spiked Amount 250.000			Recovery	= 69.396%	
22) Nitrobenzene-D5(S)	5.73	82	561009	116.16730 ppb	0.00
Spiked Amount 125.000			Recovery	= 92.934%	
46) 2-Fluorobiphenyl(S)	7.77	172	1331498	114.36393 ppb	0.00
Spiked Amount 125.000			Recovery	= 91.491%	
64) 2,4,6-Tribromophenol(S)	9.47	330	381984	191.15246 ppb	0.00
Spiked Amount 250.000			Recovery	= 76.461%	
82) Terphenyl-D14(S)	12.15	244	2054649	130.67867 ppb	0.00
Spiked Amount 125.000			Recovery	= 104.543%	

Target Compounds Qvalue

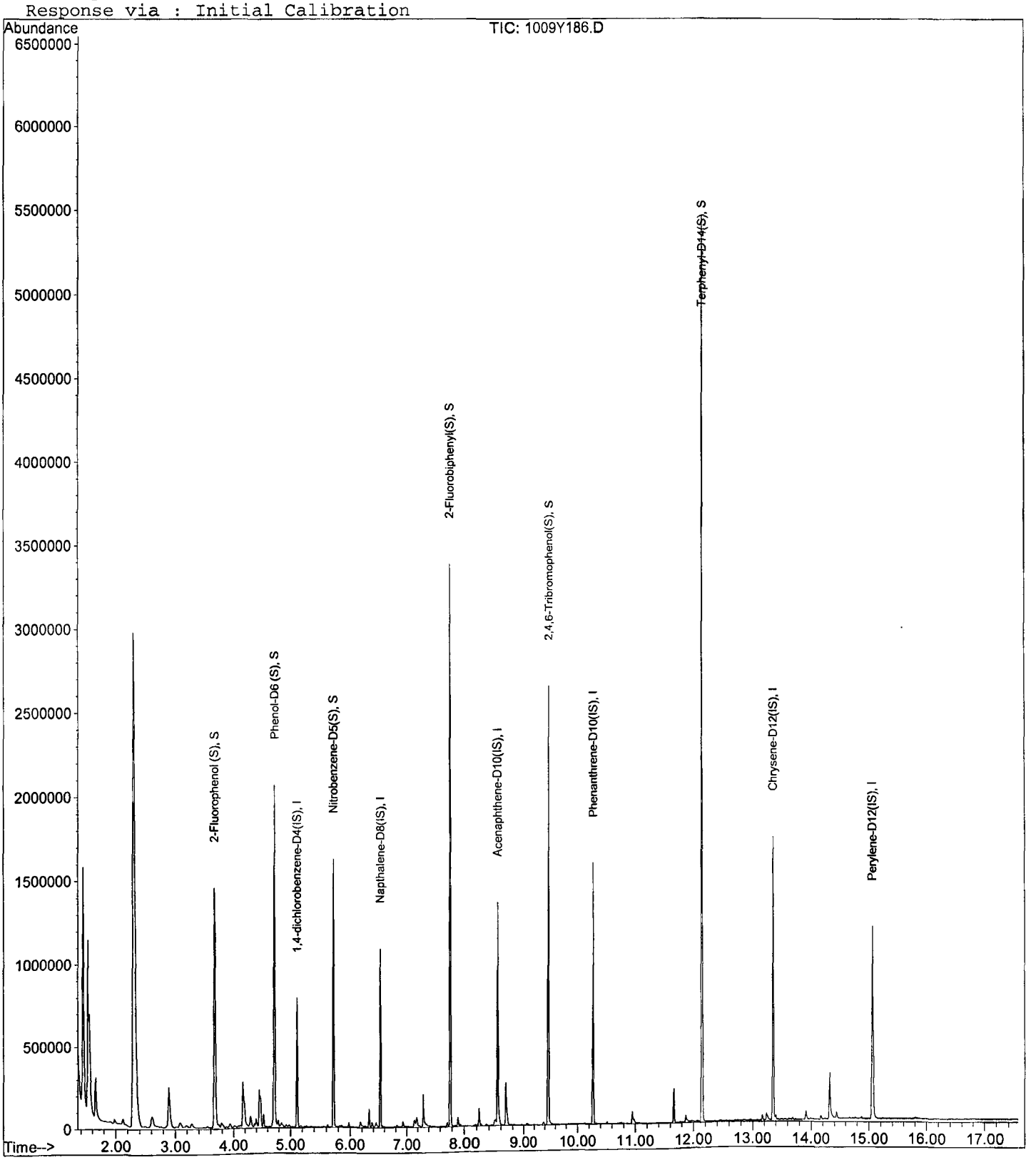
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y186.D Vial: 86
Acq On : 22 Oct 20 11:59 Operator: MA
Sample : BA20184W13 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 22 12:44 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y101.D Vial: 1
Acq On : 10 Nov 20 17:18 Operator: MA
Sample : BA20184W14 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 17:50 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	170220	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	680327	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	392995	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.26	188	769310	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	759045	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	745943	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1106558	209.65757 ppb	0.00
Spiked Amount 250.000				Recovery = 83.863%	
6) Phenol-D6 (S)	4.72	99	1414171	212.53704 ppb	0.00
Spiked Amount 250.000				Recovery = 85.015%	
22) Nitrobenzene-D5(S)	5.72	82	649533	114.09167 ppb	0.00
Spiked Amount 125.000				Recovery = 91.274%	
46) 2-Fluorobiphenyl(S)	7.77	172	1559189	117.66589 ppb	0.00
Spiked Amount 125.000				Recovery = 94.133%	
64) 2,4,6-Tribromophenol(S)	9.47	330	533081	234.38575 ppb	0.00
Spiked Amount 250.000				Recovery = 93.754%	
82) Terphenyl-D14(S)	12.14	244	2358030	134.71563 ppb	-0.02
Spiked Amount 125.000				Recovery = 107.773%	

Target Compounds Qvalue

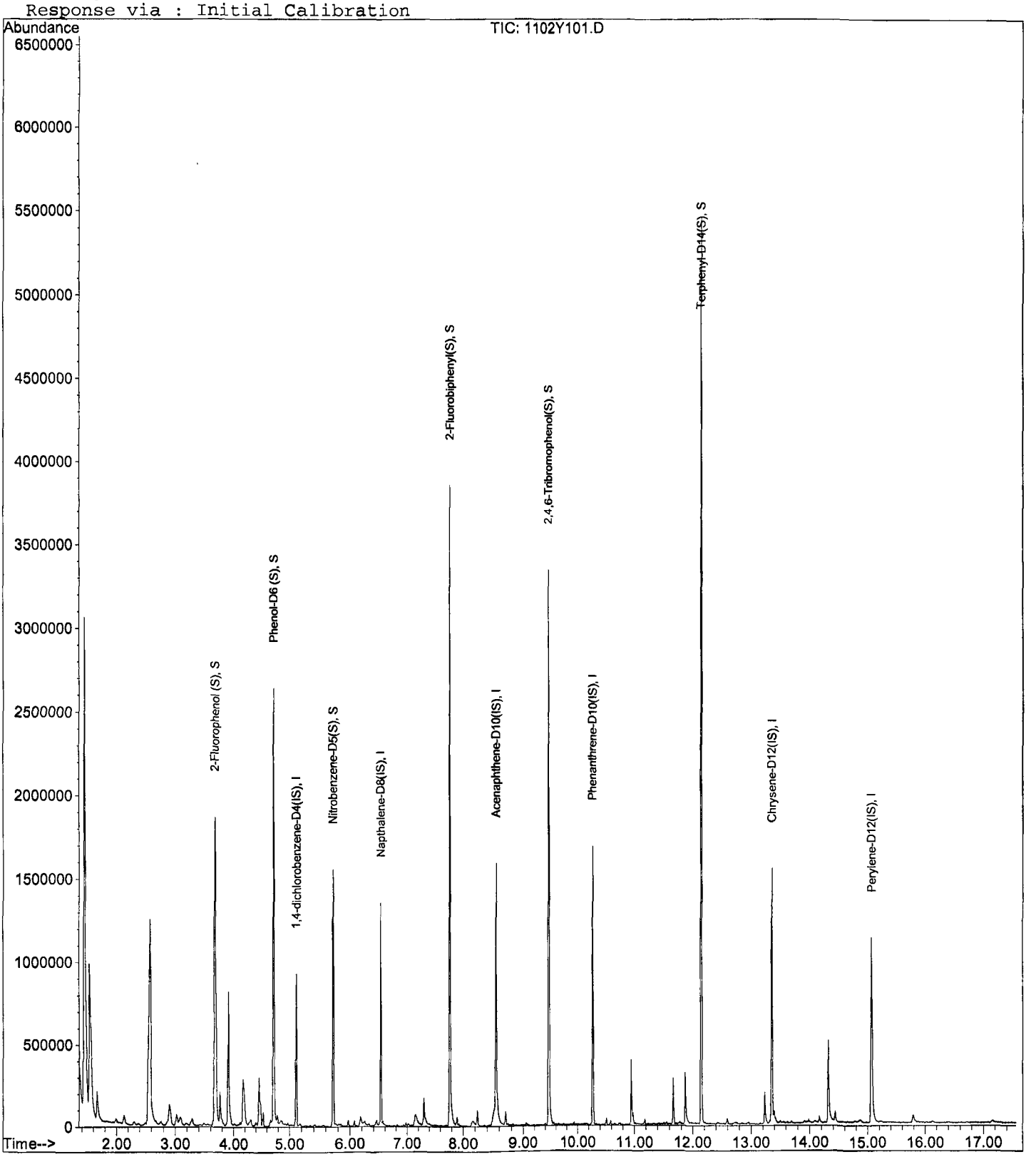
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y101.D Vial: 1
Acq On : 10 Nov 20 17:18 Operator: MA
Sample : BA20184W14 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 17:50 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y187.D Vial: 87
Acq On : 22 Oct 20 12:24 Operator: MA
Sample : BA20186W16 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 22 12:45 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	158369	40.00000	ppb	0.00
21) Napthalene-D8(IS)	6.52	136	641399	40.00000	ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	387832	40.00000	ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	766960	40.00000	ppb	0.00
79) Chrysene-D12(IS)	13.36	240	770607	40.00000	ppb	0.00
89) Perylene-D12(IS)	15.06	264	761173	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.67	112	1156448	235.50650	ppb	0.01
Spiked Amount 250.000			Recovery =	94.202%		
6) Phenol-D6 (S)	4.72	99	1439653	232.55782	ppb	0.01
Spiked Amount 250.000			Recovery =	93.023%		
22) Nitrobenzene-D5(S)	5.73	82	646647	120.47846	ppb	0.00
Spiked Amount 125.000			Recovery =	96.382%		
46) 2-Fluorobiphenyl(S)	7.77	172	1549118	118.46218	ppb	0.00
Spiked Amount 125.000			Recovery =	94.770%		
64) 2,4,6-Tribromophenol(S)	9.47	330	537716	239.57105	ppb	0.00
Spiked Amount 250.000			Recovery =	95.828%		
82) Terphenyl-D14(S)	12.15	244	2332029	131.23122	ppb	0.00
Spiked Amount 125.000			Recovery =	104.985%		

Target Compounds Qvalue

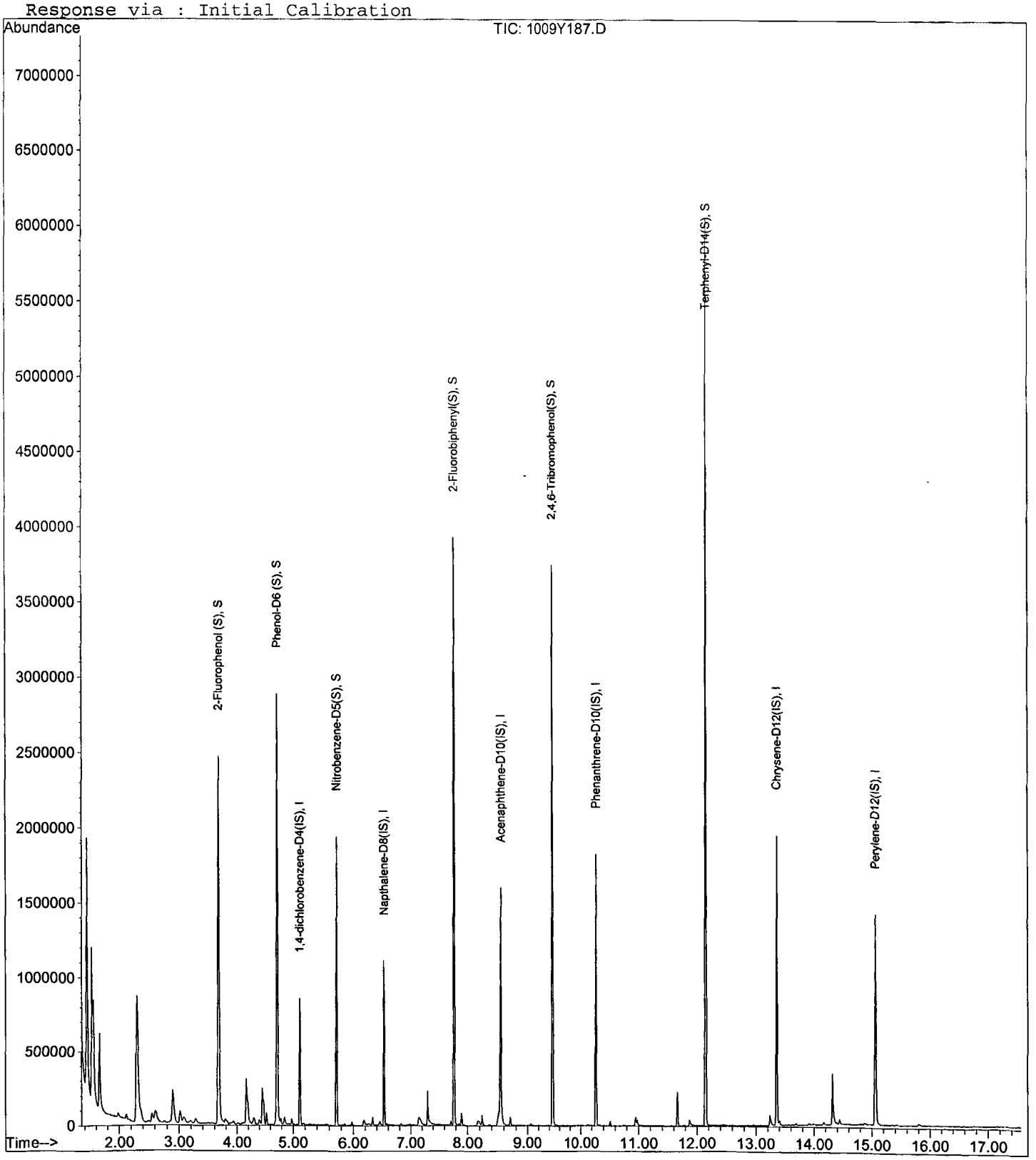
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y187.D Vial: 87
Acq On : 22 Oct 20 12:24 Operator: MA
Sample : BA20186W16 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 22 12:45 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y102.D Vial: 2
Acq On : 10 Nov 20 17:43 Operator: MA
Sample : BA20186W15 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 17:51 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	172872	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	679747	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	390451	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	765000	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	763244	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	745908	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1193165	222.59879 ppb	0.01
Spiked Amount 250.000			Recovery	= 89.040%	
6) Phenol-D6 (S)	4.72	99	1532463	226.78202 ppb	0.01
Spiked Amount 250.000			Recovery	= 90.713%	
22) Nitrobenzene-D5(S)	5.72	82	679002	119.36972 ppb	0.00
Spiked Amount 125.000			Recovery	= 95.496%	
46) 2-Fluorobiphenyl(S)	7.77	172	1641491	124.68402 ppb	0.00
Spiked Amount 125.000			Recovery	= 99.747%	
64) 2,4,6-Tribromophenol(S)	9.47	330	555360	245.77238 ppb	0.00
Spiked Amount 250.000			Recovery	= 98.309%	
82) Terphenyl-D14(S)	12.14	244	2455004	139.48419 ppb	-0.02
Spiked Amount 125.000			Recovery	= 111.587%	

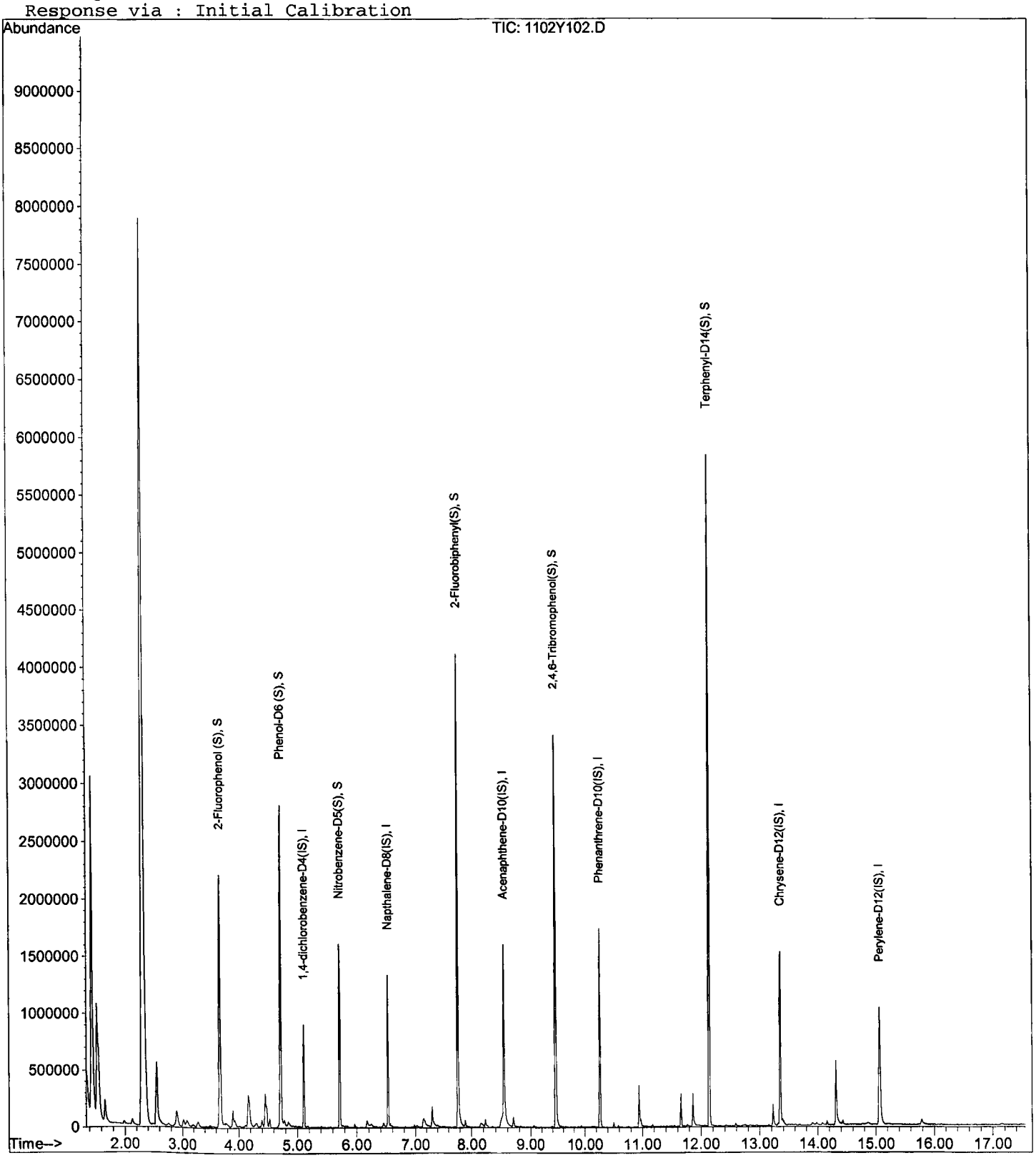
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y201102\1102Y102.D Vial: 2
Acq On : 10 Nov 20 17:43 Operator: MA
Sample : BA20186W15 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 17:51 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y188.D Vial: 88
Acq On : 22 Oct 20 12:50 Operator: MA
Sample : BA20188W16 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 22 13:26 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	161070	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	653755	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	401975	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	768314	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.35	240	782961	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	772200	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1151437	230.55390 ppb	0.00
Spiked Amount 250.000			Recovery =	92.222%	
6) Phenol-D6 (S)	4.73	99	1473808	234.08282 ppb	0.01
Spiked Amount 250.000			Recovery =	93.633%	
22) Nitrobenzene-D5(S)	5.72	82	642251	117.39786 ppb	0.00
Spiked Amount 125.000			Recovery =	93.918%	
46) 2-Fluorobiphenyl(S)	7.77	172	1540692	113.67256 ppb	0.00
Spiked Amount 125.000			Recovery =	90.938%	
64) 2,4,6-Tribromophenol(S)	9.47	330	551961	237.26538 ppb	0.00
Spiked Amount 250.000			Recovery =	94.906%	
82) Terphenyl-D14(S)	12.15	244	2413638	133.68054 ppb	0.00
Spiked Amount 125.000			Recovery =	106.945%	

Target Compounds Qvalue

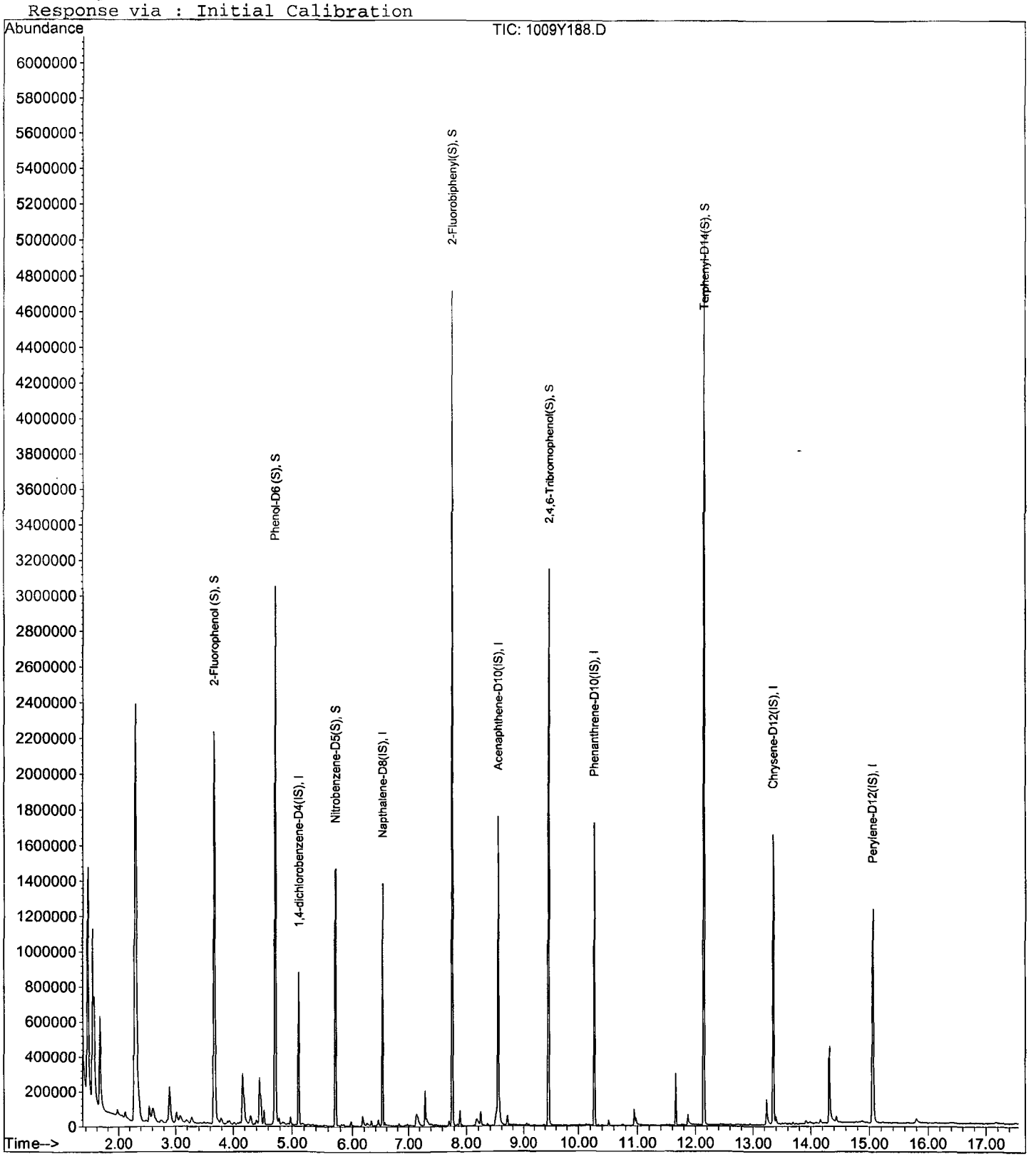
(#) = qualifier out of range (m) = manual integration
1009Y188.D Y1009.M Tue Nov 03 14:30:21 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y188.D Vial: 88
Acq On : 22 Oct 20 12:50 Operator: MA
Sample : BA20188W16 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 22 13:26 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y103.D Vial: 3
Acq On : 10 Nov 20 18:08 Operator: MA
Sample : BA20188W15 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 18:12 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	166788	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	671071	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	391817	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.26	188	758034	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	742324	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	729109	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1157583	223.83825 ppb	0.00
Spiked Amount 250.000			Recovery	= 89.535%	
6) Phenol-D6 (S)	4.72	99	1455501	223.24976 ppb	0.00
Spiked Amount 250.000			Recovery	= 89.300%	
22) Nitrobenzene-D5(S)	5.72	82	651114	115.94686 ppb	0.00
Spiked Amount 125.000			Recovery	= 92.758%	
46) 2-Fluorobiphenyl(S)	7.77	172	1533975	116.11113 ppb	0.00
Spiked Amount 125.000			Recovery	= 92.889%	
64) 2,4,6-Tribromophenol(S)	9.47	330	544075	239.93882 ppb	0.00
Spiked Amount 250.000			Recovery	= 95.976%	
82) Terphenyl-D14(S)	12.14	244	2436306	142.32281 ppb	-0.02
Spiked Amount 125.000			Recovery	= 113.858%	

Target Compounds Qvalue

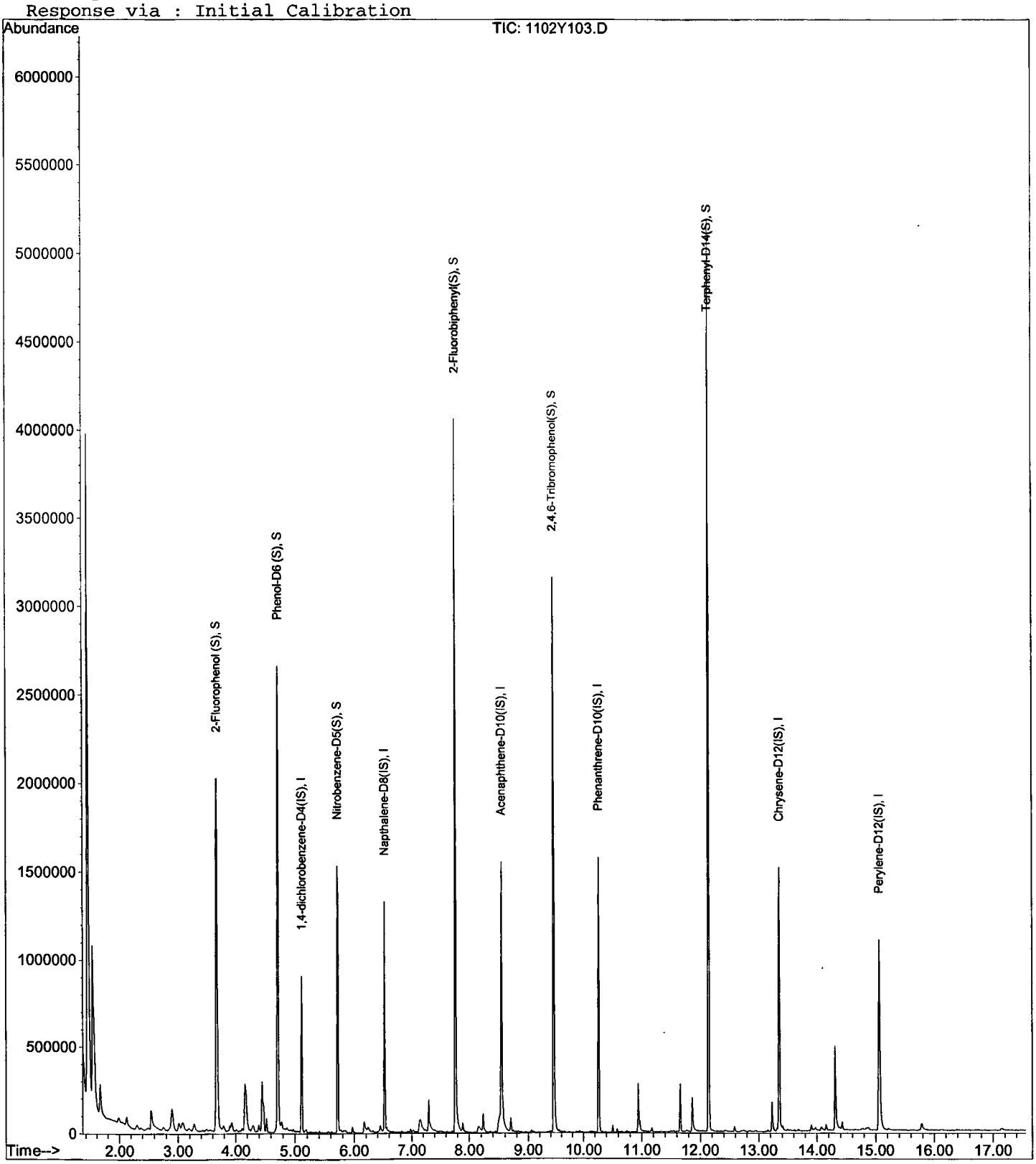
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y103.D Vial: 3
Acq On : 10 Nov 20 18:08 Operator: MA
Sample : BA20188W15 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 18:12 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y189.D Vial: 89
Acq On : 22 Oct 20 13:15 Operator: MA
Sample : BA20190W13 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 22 13:27 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	148559	40.00000	ppb	0.00
21) Napthalene-D8(IS)	6.53	136	599954	40.00000	ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	349708	40.00000	ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	691855	40.00000	ppb	0.00
79) Chrysene-D12(IS)	13.36	240	706959	40.00000	ppb	0.00
89) Perylene-D12(IS)	15.06	264	658437	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.68	112	1071024	232.51297	ppb	0.01
Spiked Amount 250.000			Recovery =	93.005%		
6) Phenol-D6 (S)	4.72	99	1347409	232.02980	ppb	0.01
Spiked Amount 250.000			Recovery =	92.812%		
22) Nitrobenzene-D5(S)	5.73	82	617059	122.90772	ppb	0.00
Spiked Amount 125.000			Recovery =	98.326%		
46) 2-Fluorobiphenyl(S)	7.77	172	1431147	121.37172	ppb	0.00
Spiked Amount 125.000			Recovery =	97.098%		
64) 2,4,6-Tribromophenol(S)	9.47	330	511232	252.60241	ppb	0.00
Spiked Amount 250.000			Recovery =	101.041%		
82) Terphenyl-D14(S)	12.15	244	2261851	138.74136	ppb	0.00
Spiked Amount 125.000			Recovery =	110.993%		

Target Compounds Qvalue

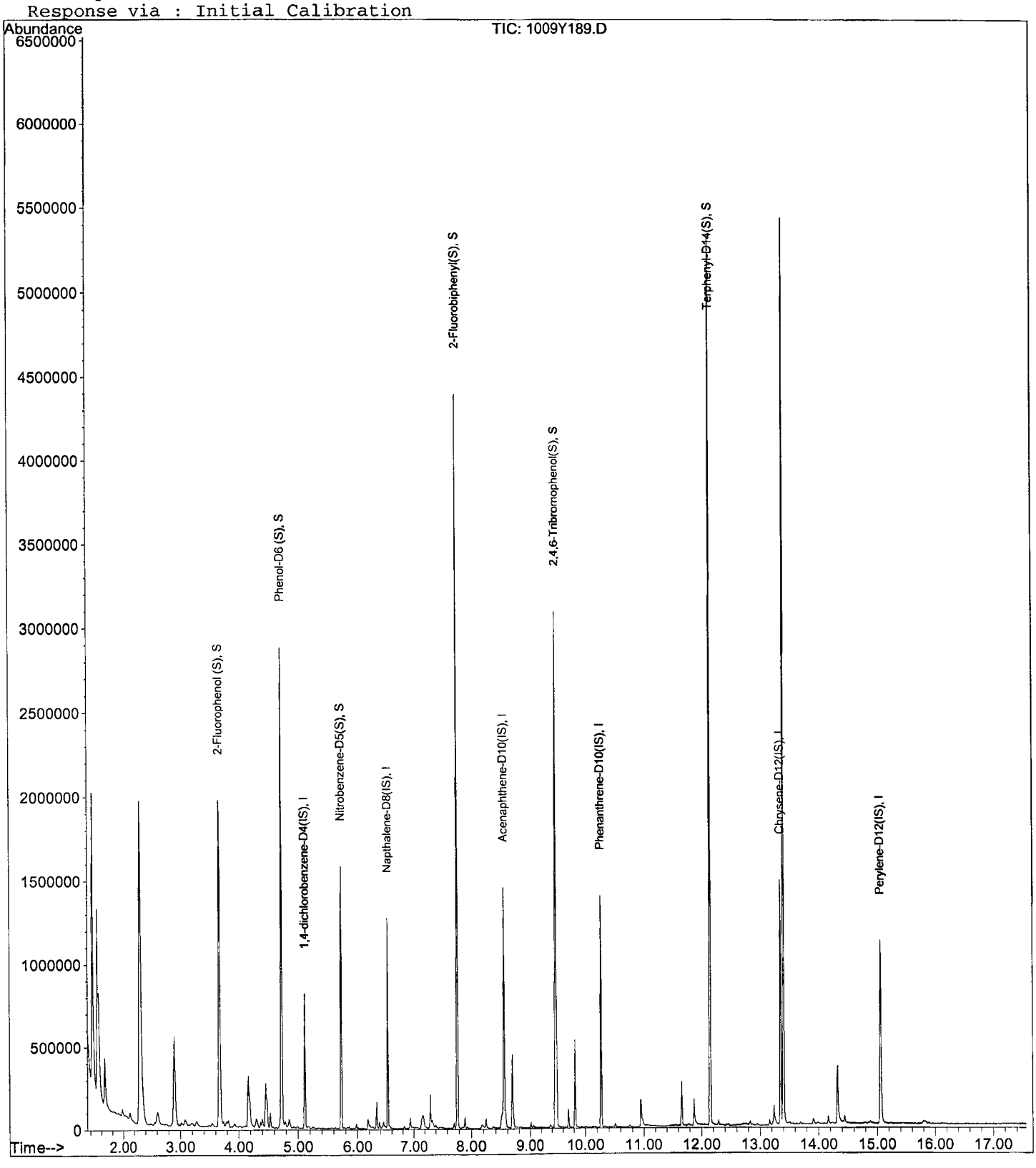
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y189.D Vial: 89
Acq On : 22 Oct 20 13:15 Operator: MA
Sample : BA20190W13 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 22 13:27 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y126.D Vial: 26
Acq On : 11 Nov 20 17:20 Operator: MA
Sample : BA20190W14 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 12 10:56 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	150093	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	571886	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	352082	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	667705	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.35	240	644940	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	637210	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	921417	197.98976 ppb	0.00
Spiked Amount 250.000			Recovery =	79.196%	
6) Phenol-D6 (S)	4.72	99	1092683	186.24175 ppb	0.00
Spiked Amount 250.000			Recovery =	74.497%	
22) Nitrobenzene-D5(S)	5.72	82	550869	115.10900 ppb	0.00
Spiked Amount 125.000			Recovery =	92.087%	
46) 2-Fluorobiphenyl(S)	7.77	172	1318815	111.09101 ppb	0.00
Spiked Amount 125.000			Recovery =	88.873%	
64) 2,4,6-Tribromophenol(S)	9.46	330	447640	219.68990 ppb	-0.01
Spiked Amount 250.000			Recovery =	87.876%	
82) Terphenyl-D14(S)	12.14	244	1993500	134.03959 ppb	-0.01
Spiked Amount 125.000			Recovery =	107.232%	
Target Compounds					Qvalue

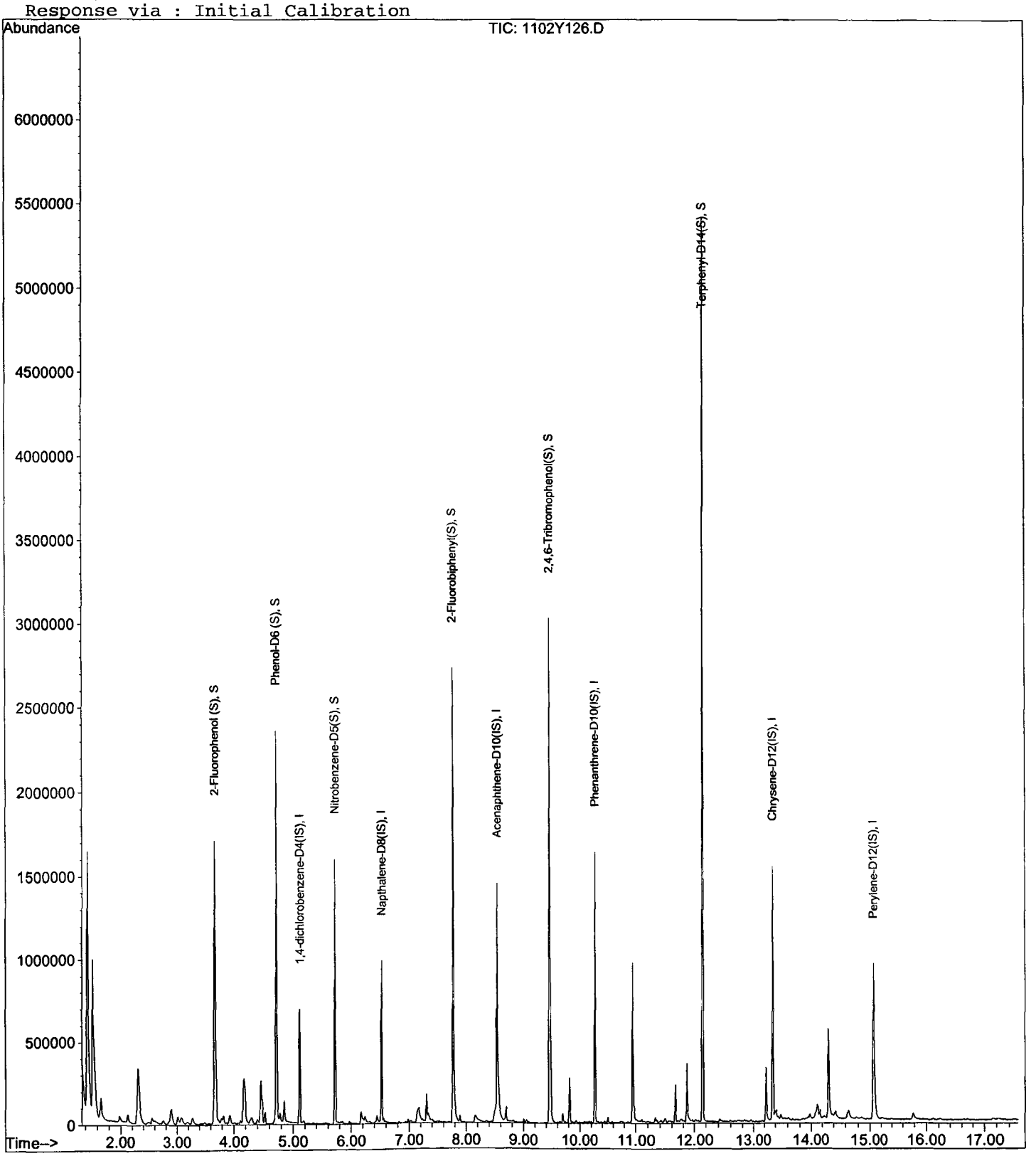
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y126.D Vial: 26
Acq On : 11 Nov 20 17:20 Operator: MA
Sample : BA20190W14 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 12 10:56 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y138.D Vial: 38
Acq On : 19 Oct 20 16:05 Operator: MA
Sample : 201015A BLK 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 20 9:00 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	148604	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	593027	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	359750	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	687301	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	692195	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	672540	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	23863	5.17895 ppb	0.01
Spiked Amount 250.000			Recovery =	2.072%	
6) Phenol-D6 (S)	4.71	99	194402	33.46675 ppb	0.00
Spiked Amount 250.000			Recovery =	13.387%	
22) Nitrobenzene-D5(S)	5.73	82	515638	103.90606 ppb	0.00
Spiked Amount 125.000			Recovery =	83.125%	
46) 2-Fluorobiphenyl(S)	7.78	172	1176092	96.95704 ppb	0.00
Spiked Amount 125.000			Recovery =	77.566%	
64) 2,4,6-Tribromophenol(S)	9.47	330	16376	7.86560 ppb	0.00
Spiked Amount 250.000			Recovery =	3.146%	
82) Terphenyl-D14(S)	12.15	244	1900626	119.07056 ppb	0.00
Spiked Amount 125.000			Recovery =	95.257%	

Target Compounds Qvalue

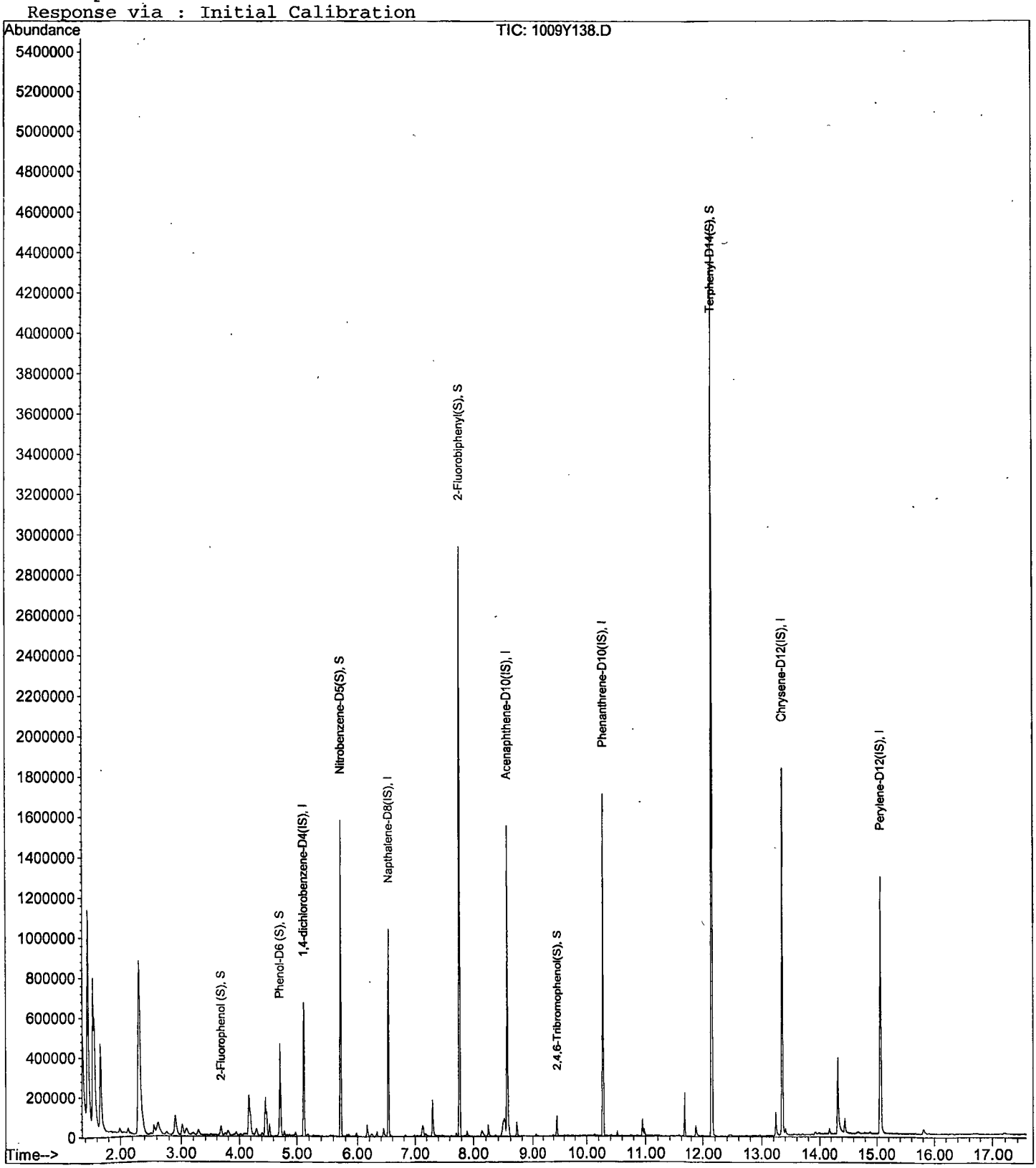
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y138.D Vial: 38
Acq On : 19 Oct 20 16:05 Operator: MA
Sample : 201015A BLK 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 20 9:00 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y087.D Vial: 87
Acq On : 10 Nov 20 11:27 Operator: MA
Sample : 201105A BLK 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 16:18 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	169050	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	651984	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	390731	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.26	188	742479	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	726975	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	726248	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1157380	220.80442 ppb	0.01
Spiked Amount 250.000			Recovery =	88.322%	
6) Phenol-D6 (S)	4.71	99	1392564	210.73820 ppb	0.00
Spiked Amount 250.000			Recovery =	84.295%	
22) Nitrobenzene-D5(S)	5.72	82	658938	120.77527 ppb	0.00
Spiked Amount 125.000			Recovery =	96.620%	
46) 2-Fluorobiphenyl(S)	7.77	172	1524953	115.74905 ppb	0.00
Spiked Amount 125.000			Recovery =	92.599%	
64) 2,4,6-Tribromophenol(S)	9.47	330	501287	221.68361 ppb	0.00
Spiked Amount 250.000			Recovery =	88.674%	
82) Terphenyl-D14(S)	12.15	244	2311496	137.88272 ppb	0.00
Spiked Amount 125.000			Recovery =	110.306%	

Target Compounds Qvalue

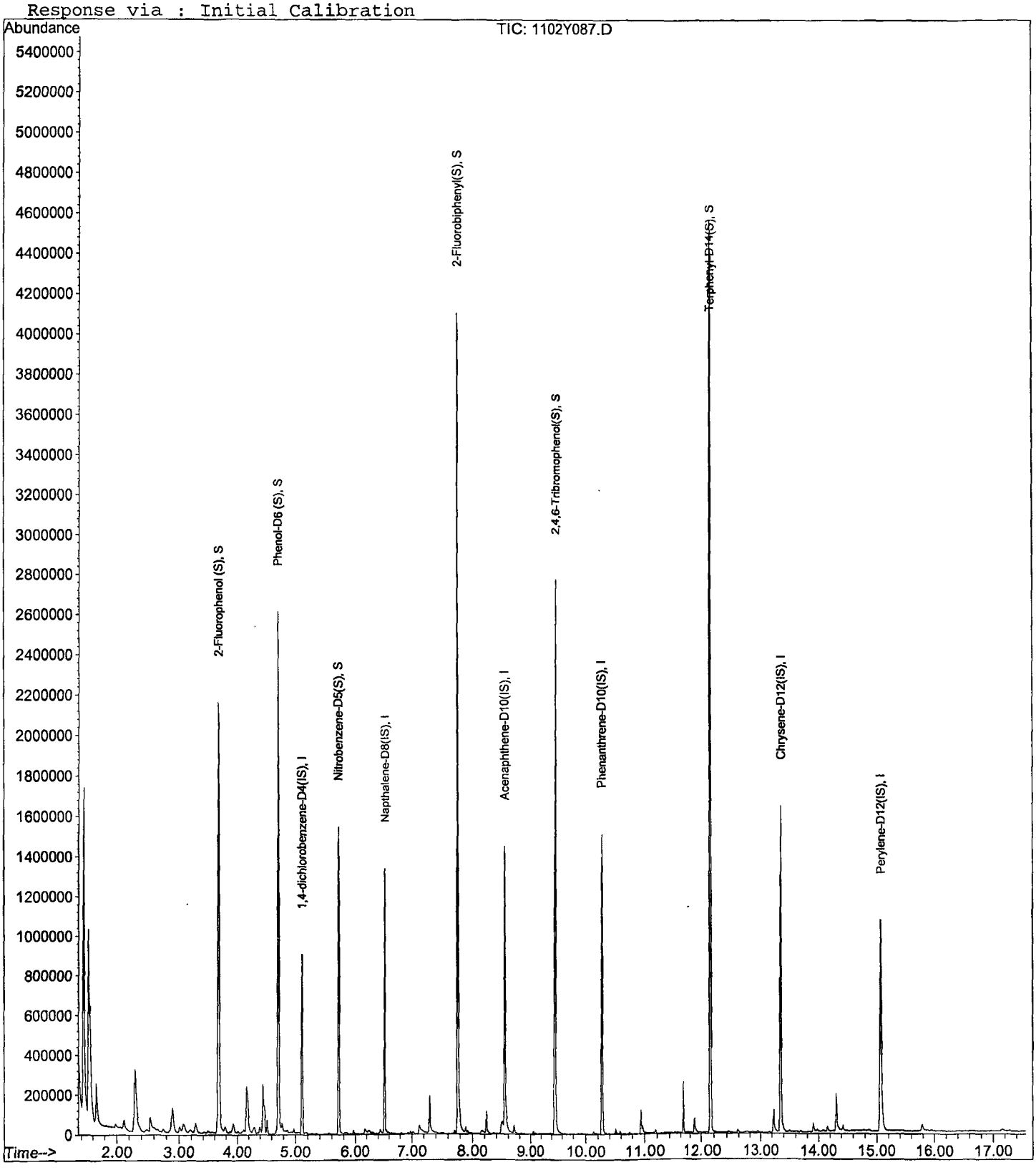
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y087.D Vial: 87
Acq On : 10 Nov 20 11:27 Operator: MA
Sample : 201105A BLK 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 16:18 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y139.D Vial: 39
Acq On : 19 Oct 20 16:30 Operator: MA
Sample : 201015A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 19 16:27 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	145798	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.54	136	580717	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	347952	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.28	188	679723	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.36	240	687249	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.07	264	676208	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.68	112	93645	20.71476 ppb		0.01
Spiked Amount 250.000			Recovery = 8.286%			
6) Phenol-D6 (S)	4.72	99	624178	109.52170 ppb		0.01
Spiked Amount 250.000			Recovery = 43.809%			
22) Nitrobenzene-D5(S)	5.73	82	538473	110.80767 ppb		0.00
Spiked Amount 125.000			Recovery = 88.646%			
46) 2-Fluorobiphenyl(S)	7.77	172	1246218	106.22177 ppb		0.00
Spiked Amount 125.000			Recovery = 84.978%			
64) 2,4,6-Tribromophenol(S)	9.47	330	55648	27.63473 ppb		0.00
Spiked Amount 250.000			Recovery = 11.054%			
82) Terphenyl-D14(S)	12.15	244	1964448	123.95459 ppb		0.00
Spiked Amount 125.000			Recovery = 99.164%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	7030	6.72017		73
3) n-Nitrosodimethylamine	2.04	42	90697	56.08551 ppb		88
4) Pyridine	2.06	79	221184	48.90502 ppb		97
7) Phenol	4.73	94	219548	33.63360 ppb		97
8) Aniline	4.76	93	232384	45.41331 ppb		97
9) Bis (2-chloroethyl) ether	4.84	63	143506	54.40773 ppb		88
10) 2-Chlorophenol	4.89	128	80330	14.78301 ppb		96
11) 1,3-DCB	5.05	146	270003	46.49122 ppb		97
12) 1,4-DCB	5.13	146	279061	47.07628 ppb		98
13) Benzyl alcohol	5.27	108	162699	53.54268 ppb		90
14) 1,2-DCB	5.30	146	267225	47.96829 ppb		96
15) 2-Methylphenol	5.39	107	204211	50.77637 ppb		98
16) Bis (2-chloroisopropyl) et	5.42	45	193941	56.08026 ppb		96
17) Acetophenone	5.56	105	347590	49.54742 ppb		88
18) 3&4-Methylphenol	5.57	107	539187	96.54327 ppb		100
19) n-Nitrosodi-n-propylamine	5.57	70	185740	52.56319 ppb		100
20) Hexachloroethane	5.67	117	83505	39.97540 ppb		82
23) Nitrobenzene	5.75	77	265989	53.15246 ppb		94
24) Isophorone	6.02	82	455657	53.17010 ppb		98
25) 2-Nitrophenol	6.10	139	30434	10.09924 ppb		91
26) 2,4-Dimethylphenol	6.15	122	220463	46.83068 ppb		96
27) Benzoic acid	6.29	105	1421	10.74930 ppb	#	74
28) Bis (2-chloroethoxy) metha	6.27	93	298852	54.92755 ppb		98
29) 2,4-Dichlorophenol	6.37	162	60922	13.00761 ppb		100
30) 1,2,4-Trichlorobenzene	6.47	180	245903	47.11232 ppb		95
31) 3,4-Dimethylphenol	6.49	107	338146	51.41397 ppb		99
32) Naphthalene	6.55	128	801293	52.60013 ppb		99
33) 4-Chloroaniline	6.62	127	275078	42.91959 ppb	#	93
34) 2,6-Dichlorophenol	6.63	162	14568	3.15621 ppb		97
35) Hexachloropropene	6.66	213	106964	28.15902 ppb		98
36) Hexachlorobutadiene	6.70	225	125693	39.20934 ppb		98
37) Caprolactum	7.00	55	85841	56.27881 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y139.D Vial: 39
Acq On : 19 Oct 20 16:30 Operator: MA
Sample : 201015A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 19 16:27 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	229658	47.97794	ppb		90
39)	2-Methylnaphthalene	7.34	142	557556	54.23080	ppb		99
40)	1-Methylnaphthalene	7.45	142	542439	50.94615	ppb		100
42)	Hexachlorocyclopentadiene	7.53	237	42576	10.97683	ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	284639	50.68144	ppb		98
44)	2,4,6-Trichlorophenol	7.68	196	10151	2.72281	ppb		98
45)	2,4,5-Trichlorophenol	7.71	196	26728	6.84327	ppb		95
47)	1,1'-Biphenyl	7.89	154	711996	53.17791	ppb		97
48)	2-Chloronaphthalene	7.91	162	552336	52.15925	ppb		95
49)	2-Nitroaniline	8.02	65	136754	51.76315	ppb		82
50)	Dimethyl phthalate	8.25	163	719195	56.76281	ppb		97
51)	2,6-DNT	8.31	165	154647	54.94055	ppb		89
52)	Acenaphthylene	8.38	152	846863	52.12982	ppb		99
53)	3-Nitroaniline	8.03	138	199056	57.05143	ppb		92
54)	Acenaphthene	8.59	154	545256	50.51026	ppb		99
55)	2,4-Dinitrophenol	8.62	184	423	20.74258	ppb	#	44
56)	4-Nitrophenol	8.73	65	5527	2.81201	ppb	#	43
57)	Dibenzofuran	8.79	168	803659	52.26337	ppb		91
58)	2,4-DNT	8.77	165	211363	52.77676	ppb		98
59)	2,3,4,6-Tetrachlorophenol	8.93	232	6654	2.03998	ppb		94
60)	Diethyl phthalate	9.07	149	655039	52.93093	ppb		98
61)	4-Chlorophenyl phenyl ethe	9.19	204	369802	51.82362	ppb		99
62)	Fluorene	9.19	166	674311	53.01403	ppb		99
63)	4-Nitroaniline	8.50	138	150974	51.69826	ppb	#	80
66)	4,6-Dinitro-2-methylphenol	9.25	198	2157	0.81531	ppb		97
67)	Diphenyl amine	9.34	169	1025345	99.60457	ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1025345	99.60457	ppb		99
69)	1,2-Diphenylhydrazine	9.38	77	513960	51.57140	ppb		98
70)	4-Bromophenyl phenyl ether	9.77	248	224490	55.13147	ppb		99
71)	Hexachlorobenzene	9.82	284	233480	53.35244	ppb		96
72)	Atrazine	9.96	200	95406	25.22084	ppb		99
73)	Pentachlorophenol	10.05	266	4809	1.61504	ppb		89
74)	Phenanthrene	10.30	178	979371	53.04432	ppb		100
75)	Anthracene	10.36	178	1000651	52.14740	ppb		99
76)	Carbazol	10.55	167	920789	53.34739	ppb		96
77)	Di-n-butylphthalate	10.98	149	1161336	55.59927	ppb		99
78)	Fluoranthene	11.69	202	1136593	53.23801	ppb		98
80)	Benzidine	11.85	184	145236	23.56963	ppb	#	97
81)	Pyrene	11.95	202	1180426	53.82339	ppb		100
83)	Butyl benzylphthalate	12.73	149	506232	56.02166	ppb		81
84)	3,3'-Dichlorobenzidine	13.33	252	268578	36.98632	ppb	#	97
85)	Benz (a) anthracene	13.35	228	1132160	51.26651	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.41	149	740833	58.46126	ppb		97
87)	Chrysene	13.39	228	1138143	53.55531	ppb		99
88)	Di-n-octylphthalate	14.13	149	1241175	59.81601	ppb		99
90)	Benzo (b) fluoranthene	14.57	252	1188367	56.61702	ppb		99
91)	Benzo (k) fluoranthene	14.61	252	1081482	53.19060	ppb		99
92)	Benzo (a) pyrene	14.99	252	999566	52.08232	ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1138692	52.55013	ppb		98
94)	Dibenz (a,h) anthracene	16.78	278	1053251	55.79744	ppb		99
95)	Benzo (g,h,i) perylene	17.24	276	1026288	54.52002	ppb		98

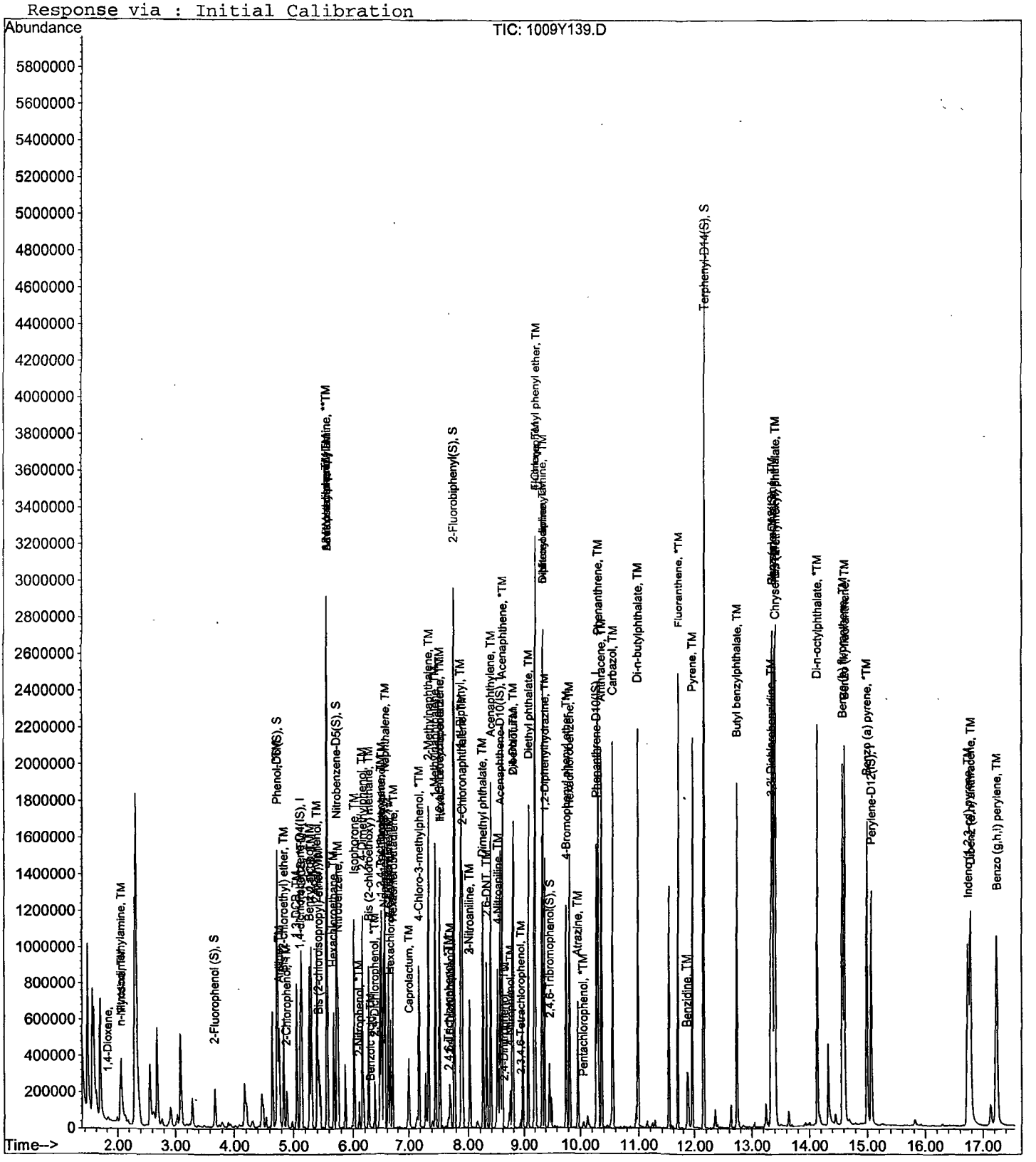
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y139.D Vial: 39
Acq On : 19 Oct 20 16:30 Operator: MA
Sample : 201015A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 19 16:27 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y140.D Vial: 40
Acq On : 19 Oct 20 16:56 Operator: MA
Sample : 201015A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 19 16:28 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	145937	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	584089	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	346330	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	672228	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	680050	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	682445	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	160037	35.36730 ppb	0.01
Spiked Amount 250.000			Recovery =	14.147%	
6) Phenol-D6 (S)	4.72	99	810894	142.14839 ppb	0.01
Spiked Amount 250.000			Recovery =	56.859%	
22) Nitrobenzene-D5(S)	5.73	82	556047	113.76349 ppb	0.00
Spiked Amount 125.000			Recovery =	91.010%	
46) 2-Fluorobiphenyl(S)	7.78	172	1318469	112.90642 ppb	0.00
Spiked Amount 125.000			Recovery =	90.325%	
64) 2,4,6-Tribromophenol(S)	9.47	330	93645	46.72179 ppb	0.00
Spiked Amount 250.000			Recovery =	18.689%	
82) Terphenyl-D14(S)	12.15	244	1983245	126.46539 ppb	0.00
Spiked Amount 125.000			Recovery =	101.172%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	5848	5.58494	93
3) n-Nitrosodimethylamine	2.04	42	91323	56.41883 ppb	83
4) Pyridine	2.06	79	222402	49.12749 ppb	95
7) Phenol	4.74	94	275824	42.21454 ppb	99
8) Aniline	4.76	93	293824	57.36544 ppb	97
9) Bis (2-chloroethyl) ether	4.83	63	148646	56.30279 ppb	94
10) 2-Chlorophenol	4.89	128	114990	21.14128 ppb	98
11) 1,3-DCB	5.06	146	271742	46.74609 ppb	99
12) 1,4-DCB	5.14	146	285628	48.13820 ppb	98
13) Benzyl alcohol	5.27	108	166841	54.85348 ppb	92
14) 1,2-DCB	5.30	146	275547	49.41502 ppb	98
15) 2-Methylphenol	5.39	107	220809	54.85111 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	201890	58.32320 ppb	94
17) Acetophenone	5.56	105	362165	51.57585 ppb	88
18) 3&4-Methylphenol	5.57	107	597017	106.79611 ppb	97
19) n-Nitrosodi-n-propylamine	5.57	70	189735	53.64260 ppb	98
20) Hexachloroethane	5.67	117	84261	40.29889 ppb	82
23) Nitrobenzene	5.74	77	279128	55.45601 ppb	90
24) Isophorone	6.01	82	472550	54.82298 ppb	96
25) 2-Nitrophenol	6.10	139	46877	15.46590 ppb	92
26) 2,4-Dimethylphenol	6.15	122	254876	53.82811 ppb	99
27) Benzoic acid	6.28	105	6702	12.13936 ppb	97
28) Bis (2-chloroethoxy) metha	6.26	93	312351	57.07718 ppb	99
29) 2,4-Dichlorophenol	6.38	162	89430	18.98420 ppb	91
30) 1,2,4-Trichlorobenzene	6.47	180	251808	47.96514 ppb	97
31) 3,4-Dimethylphenol	6.49	107	359543	54.35172 ppb	100
32) Naphthalene	6.55	128	830201	54.18315 ppb	99
33) 4-Chloroaniline	6.62	127	330080	51.20406 ppb	95
34) 2,6-Dichlorophenol	6.63	162	27551	5.93456 ppb	100
35) Hexachloropropene	6.65	213	121317	31.75317 ppb	97
36) Hexachlorobutadiene	6.70	225	133939	41.54044 ppb	97
37) Caprolactum	7.00	55	89683	58.45825 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y140.D Vial: 40
Acq On : 19 Oct 20 16:56 Operator: MA
Sample : 201015A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 19 16:28 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	247304	51.36611 ppb		95
39) 2-Methylnaphthalene	7.34	142	578234	55.91736 ppb		98
40) 1-Methylnaphthalene	7.46	142	559362	52.23228 ppb		100
42) Hexachlorocyclopentadiene	7.53	237	40984	10.61587 ppb		98
43) 1,2,4,5-Tetrachlorobenzene	7.54	216	301583	53.94990 ppb		98
44) 2,4,6-Trichlorophenol	7.68	196	20069	5.40834 ppb		98
45) 2,4,5-Trichlorophenol	7.71	196	44213	11.37303 ppb		96
47) 1,1'-Biphenyl	7.89	154	746706	56.03154 ppb		99
48) 2-Chloronaphthalene	7.91	162	582323	55.24859 ppb		96
49) 2-Nitroaniline	8.02	65	142977	54.37209 ppb		80
50) Dimethyl phthalate	8.25	163	742925	58.91032 ppb		98
51) 2,6-DNT	8.32	165	166439	59.40675 ppb	#	79
52) Acenaphthylene	8.38	152	874743	54.09820 ppb		99
53) 3-Nitroaniline	8.03	138	201635	58.06125 ppb	#	94
54) Acenaphthene	8.58	154	569975	53.04741 ppb		99
55) 2,4-Dinitrophenol	8.62	184	1704	21.34261 ppb	#	86
56) 4-Nitrophenol	8.72	65	7278	3.72021 ppb	#	58
57) Dibenzofuran	8.79	168	839665	54.86064 ppb		92
58) 2,4-DNT	8.77	165	220942	55.42698 ppb		98
59) 2,3,4,6-Tetrachlorophenol	8.93	232	14338	4.41633 ppb		98
60) Diethyl phthalate	9.07	149	689480	55.97489 ppb		97
61) 4-Chlorophenyl phenyl ethe	9.20	204	391888	55.17593 ppb		87
62) Fluorene	9.19	166	710689	56.13573 ppb		98
63) 4-Nitroaniline	8.50	138	160620	55.25895 ppb		87
66) 4,6-Dinitro-2-methylphenol	9.24	198	5598	2.13953 ppb		94
67) Diphenyl amine	9.34	169	950294	93.34318 ppb		100
68) n-Nitrosodiphenylamine	9.34	169	950294	93.34318 ppb		100
69) 1,2-Diphenylhydrazine	9.37	77	519856	52.74461 ppb		96
70) 4-Bromophenyl phenyl ether	9.76	248	233155	57.89789 ppb		97
71) Hexachlorobenzene	9.82	284	240078	55.47181 ppb	#	92
72) Atrazine	9.96	200	79439	21.23406 ppb		99
73) Pentachlorophenol	10.05	266	10126	3.43860 ppb		95
74) Phenanthrene	10.30	178	1030603	56.44148 ppb		99
75) Anthracene	10.37	178	1033441	54.45667 ppb		99
76) Carbazol	10.55	167	954591	55.92239 ppb		97
77) Di-n-butylphthalate	10.98	149	1189531	57.58406 ppb		99
78) Fluoranthene	11.69	202	1196108	56.65035 ppb	#	97
80) Benzidine	11.85	184	153994	25.25548 ppb	#	94
81) Pyrene	11.95	202	1225754	56.48185 ppb		99
83) Butyl benzylphthalate	12.73	149	528470	59.10170 ppb		99
84) 3,3'-Dichlorobenzidine	13.33	252	337494	46.96886 ppb		98
85) Benz (a) anthracene	13.35	228	1189098	54.41478 ppb		100
86) Bis (2-ethylhexyl) phthala	13.40	149	770200	61.42209 ppb	#	94
87) Chrysene	13.39	228	1203299	57.22062 ppb		100
88) Di-n-octylphthalate	14.13	149	1281802	62.42788 ppb		98
90) Benzo (b) fluoranthene	14.57	252	1194911	56.40851 ppb		98
91) Benzo (k) fluoranthene	14.61	252	1180548	57.53232 ppb		99
92) Benzo (a) pyrene	14.99	252	1058892	54.66926 ppb		98
93) Indeno (1,2,3-cd) pyrene	16.74	276	1197268	54.74841 ppb		97
94) Dibenz (a,h) anthracene	16.78	278	1107155	58.11704 ppb		99
95) Benzo (g,h,i) perylene	17.24	276	1064654	56.04126 ppb		97

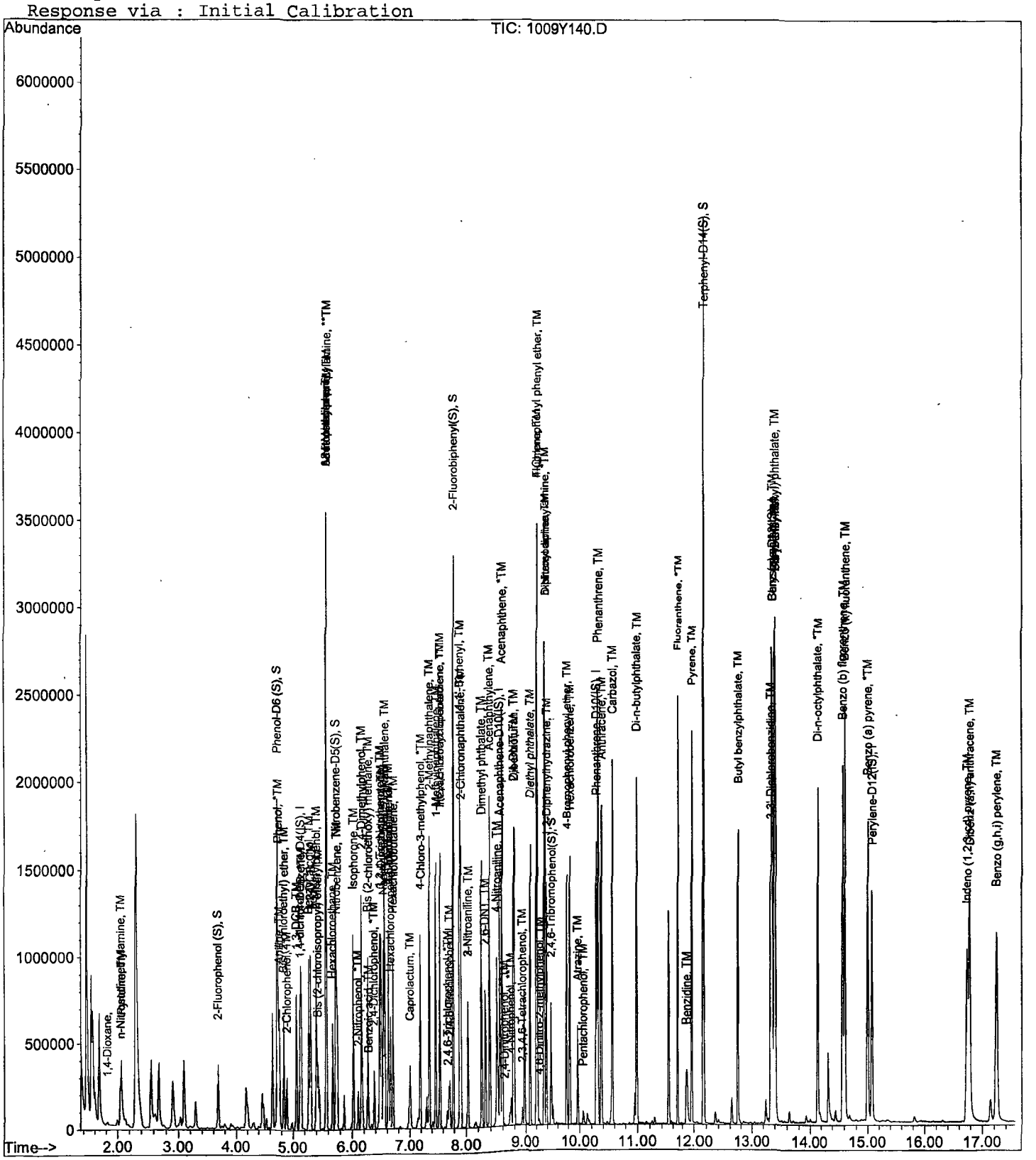
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y140.D Vial: 40
Acq On : 19 Oct 20 16:56 Operator: MA
Sample : 201015A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 19 16:28 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y088.D Vial: 88
Acq On : 10 Nov 20 11:52 Operator: MA
Sample : 201105A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 11:59 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	163554	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.52	136	644001	40.00000 ppb		-0.01
41) Acenaphthene-D10(IS)	8.54	164	374923	40.00000 ppb		-0.01
65) Phenanthrene-D10(IS)	10.27	188	735769	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.36	240	728714	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.06	264	713257	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.68	112	1162078	229.15064 ppb		0.02
Spiked Amount 250.000			Recovery = 91.660%			
6) Phenol-D6 (S)	4.72	99	1447271	226.37683 ppb		0.00
Spiked Amount 250.000			Recovery = 90.551%			
22) Nitrobenzene-D5(S)	5.72	82	638055	118.39735 ppb		0.00
Spiked Amount 125.000			Recovery = 94.718%			
46) 2-Fluorobiphenyl(S)	7.77	172	1500184	118.67010 ppb		0.00
Spiked Amount 125.000			Recovery = 94.936%			
64) 2,4,6-Tribromophenol(S)	9.47	330	506851	233.59484 ppb		0.00
Spiked Amount 250.000			Recovery = 93.438%			
82) Terphenyl-D14(S)	12.14	244	2231156	132.77277 ppb		-0.02
Spiked Amount 125.000			Recovery = 106.218%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	5951	5.07114		90
3) n-Nitrosodimethylamine	2.03	42	101571	55.99095 ppb		98
4) Pyridine	2.06	79	229579	45.25039 ppb		94
7) Phenol	4.74	94	395010	53.94390 ppb		99
8) Aniline	4.75	93	202624	35.29866 ppb		96
9) Bis (2-chloroethyl) ether	4.83	63	164453	55.58054 ppb		87
10) 2-Chlorophenol	4.88	128	333698	54.74306 ppb		94
11) 1,3-DCB	5.05	146	340470	52.26026 ppb		99
12) 1,4-DCB	5.13	146	352501	53.00950 ppb		99
13) Benzyl alcohol	5.27	108	185239	54.34231 ppb		86
14) 1,2-DCB	5.30	146	340951	54.55813 ppb		94
15) 2-Methylphenol	5.39	107	247963	54.96165 ppb		96
16) Bis (2-chloroisopropyl) et	5.42	45	223644	57.64850 ppb		98
17) Acetophenone	5.56	105	419122	53.25797 ppb		89
18) 3&4-Methylphenol	5.57	107	680868	108.67656 ppb		97
19) n-Nitrosodi-n-propylamine	5.56	70	212972	53.72657 ppb		94
20) Hexachloroethane	5.67	117	106715	45.54033 ppb		98
23) Nitrobenzene	5.74	77	319368	57.54784 ppb		96
24) Isophorone	6.01	82	555162	58.41537 ppb		98
25) 2-Nitrophenol	6.10	139	195033	58.36008 ppb		93
26) 2,4-Dimethylphenol	6.15	122	260914	49.97699 ppb		95
27) Benzoic acid	6.27	105	240591	67.89902 ppb		95
28) Bis (2-chloroethoxy) metha	6.25	93	346916	57.49584 ppb		99
29) 2,4-Dichlorophenol	6.36	162	290355	55.90245 ppb		99
30) 1,2,4-Trichlorobenzene	6.46	180	302052	52.18316 ppb		99
31) 3,4-Dimethylphenol	6.49	107	380809	52.21101 ppb		95
32) Naphthalene	6.55	128	963828	57.05228 ppb		99
33) 4-Chloroaniline	6.62	127	205617	28.92922 ppb	#	93
34) 2,6-Dichlorophenol	6.62	162	281069	54.91061 ppb		95
35) Hexachloropropene	6.65	213	108994	25.87382 ppb		98
36) Hexachlorobutadiene	6.69	225	147239	41.41707 ppb		98
37) Caprolactum	7.02	55	95835	56.65683 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y088.D Vial: 88
Acq On : 10 Nov 20 11:52 Operator: MA
Sample : 201105A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 11:59 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	295178	55.60605	ppb		94
39)	2-Methylnaphthalene	7.34	142	624816	54.80090	ppb		100
40)	1-Methylnaphthalene	7.45	142	652137	55.23029	ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	69304	16.58241	ppb		97
43)	1,2,4,5-Tetrachlorobenzene	7.53	216	317488	52.46373	ppb		94
44)	2,4,6-Trichlorophenol	7.66	196	228153	56.79528	ppb		96
45)	2,4,5-Trichlorophenol	7.71	196	241069	57.28166	ppb		96
47)	1,1'-Biphenyl	7.88	154	812222	56.29965	ppb		98
48)	2-Chloronaphthalene	7.90	162	661072	57.93674	ppb		99
49)	2-Nitroaniline	8.02	65	157301	55.25727	ppb		84
50)	Dimethyl phthalate	8.24	163	822074	60.21509	ppb		99
51)	2,6-DNT	8.30	165	184575	60.85575	ppb		99
52)	Acenaphthylene	8.38	152	979674	55.96699	ppb		100
53)	3-Nitroaniline	8.02	138	220405	58.62596	ppb		92
54)	Acenaphthene	8.58	154	652378	56.08616	ppb		99
55)	2,4-Dinitrophenol	8.62	184	117171	71.16620	ppb		92
56)	4-Nitrophenol	8.72	65	130057	61.40979	ppb		75
57)	Dibenzofuran	8.78	168	922188	55.65733	ppb		96
58)	2,4-DNT	8.77	165	261650	60.63337	ppb		99
59)	2,3,4,6-Tetrachlorophenol	8.93	232	205811	58.55848	ppb		93
60)	Diethyl phthalate	9.07	149	753704	56.52238	ppb		99
61)	4-Chlorophenyl phenyl ethe	9.19	204	423280	55.05078	ppb		92
62)	Fluorene	9.18	166	784622	57.24906	ppb		99
63)	4-Nitroaniline	8.50	138	140029	44.50093	ppb	#	74
66)	4,6-Dinitro-2-methylphenol	9.24	198	165606	57.82780	ppb		93
67)	Diphenyl amine	9.33	169	1176396	105.57310	ppb		99
68)	n-Nitrosodiphenylamine	9.33	169	1176396	105.57310	ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	638652	59.20173	ppb		88
70)	4-Bromophenyl phenyl ether	9.75	248	247479	56.14763	ppb	#	88
71)	Hexachlorobenzene	9.82	284	263469	55.61919	ppb		100
72)	Atrazine	9.96	200	107062	26.14627	ppb		97
73)	Pentachlorophenol	10.05	266	175658	54.49885	ppb		98
74)	Phenanthrene	10.30	178	1158195	57.95139	ppb		99
75)	Anthracene	10.36	178	1155816	55.64540	ppb		99
76)	Carbazol	10.55	167	1077471	57.66989	ppb		95
77)	Di-n-butylphthalate	10.97	149	1319092	58.34139	ppb		99
78)	Fluoranthene	11.68	202	1333537	57.70486	ppb		98
80)	Benzidine	11.87	184	8794	1.34593	ppb	#	1
81)	Pyrene	11.94	202	1377224	59.22347	ppb		99
83)	Butyl benzylphthalate	12.72	149	572148	59.71340	ppb		100
84)	3,3'-Dichlorobenzidine	13.33	252	178558	23.19034	ppb	#	97
85)	Benz (a) anthracene	13.35	228	1296051	55.34839	ppb		100
86)	Bis (2-ethylhexyl) phthala	13.39	149	818934	60.94719	ppb		97
87)	Chrysene	13.38	228	1309837	58.12728	ppb		99
88)	Di-n-octylphthalate	14.12	149	1406745	63.93767	ppb		97
90)	Benzo (b) fluoranthene	14.57	252	1435730	64.84902	ppb		99
91)	Benzo (k) fluoranthene	14.60	252	1163473	54.25081	ppb	#	97
92)	Benzo (a) pyrene	14.99	252	1153053	56.95901	ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.73	276	1310087	57.31944	ppb		96
94)	Dibenz (a,h) anthracene	16.77	278	1210218	60.78274	ppb		99
95)	Benzo (g,h,i) perylene	17.24	276	1189148	59.89036	ppb		98

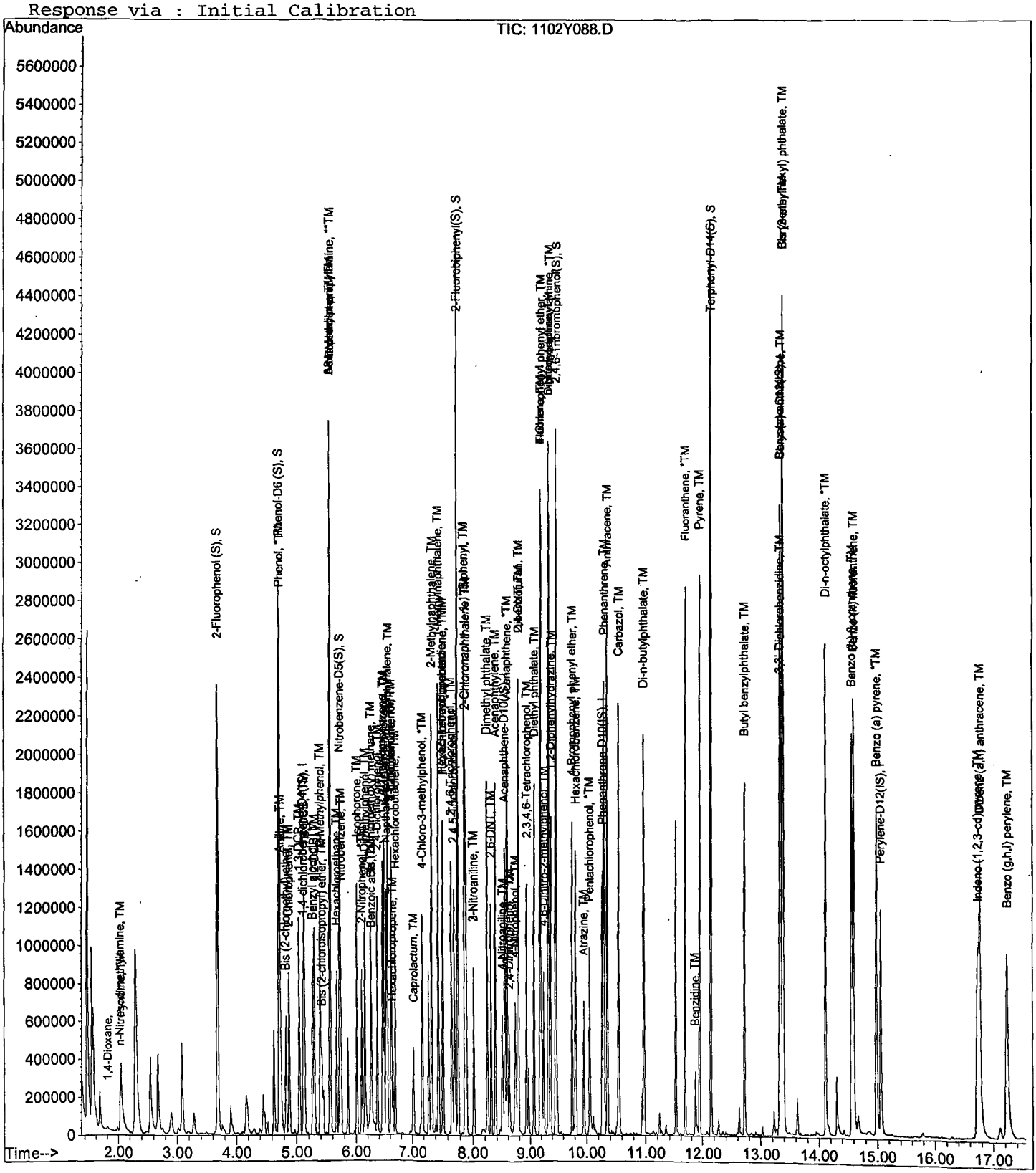
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y088.D Vial: 88
Acq On : 10 Nov 20 11:52 Operator: MA
Sample : 201105A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 11:59 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y089.D Vial: 89
Acq On : 10 Nov 20 12:17 Operator: MA
Sample : 201105A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 12:24 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	159455	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.52	136	625312	40.00000 ppb		-0.01
41) Acenaphthene-D10(IS)	8.54	164	375077	40.00000 ppb		-0.01
65) Phenanthrene-D10(IS)	10.27	188	722931	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.36	240	709966	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.06	264	696973	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.68	112	1200353	242.78273 ppb		0.02
Spiked Amount 250.000			Recovery = 97.113%			
6) Phenol-D6 (S)	4.72	99	1517207	243.41648 ppb		0.00
Spiked Amount 250.000			Recovery = 97.366%			
22) Nitrobenzene-D5(S)	5.72	82	643378	122.95321 ppb		0.00
Spiked Amount 125.000			Recovery = 98.362%			
46) 2-Fluorobiphenyl(S)	7.77	172	1540942	121.84416 ppb		0.00
Spiked Amount 125.000			Recovery = 97.475%			
64) 2,4,6-Tribromophenol(S)	9.47	330	523753	241.28544 ppb		0.00
Spiked Amount 250.000			Recovery = 96.514%			
82) Terphenyl-D14(S)	12.14	244	2282570	139.41925 ppb		-0.02
Spiked Amount 125.000			Recovery = 111.535%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	8533	7.45831		98
3) n-Nitrosodimethylamine	2.03	42	100042	56.56575 ppb		98
4) Pyridine	2.05	79	276658	55.93149 ppb		98
7) Phenol	4.74	94	418023	58.55412 ppb		98
8) Aniline	4.75	93	229888	41.07775 ppb		94
9) Bis (2-chloroethyl) ether	4.83	63	166889	57.85377 ppb		89
10) 2-Chlorophenol	4.88	128	344098	57.90027 ppb		94
11) 1,3-DCB	5.05	146	340441	53.59912 ppb		99
12) 1,4-DCB	5.13	146	352925	54.43758 ppb		98
13) Benzyl alcohol	5.27	108	191280	57.55701 ppb		86
14) 1,2-DCB	5.30	146	340743	55.92648 ppb		94
15) 2-Methylphenol	5.39	107	248599	56.51911 ppb		99
16) Bis (2-chloroisopropyl) et	5.42	45	225173	59.53470 ppb		98
17) Acetophenone	5.56	105	419639	54.69442 ppb		89
18) 3&4-Methylphenol	5.57	107	696400	114.01310 ppb		99
19) n-Nitrosodi-n-propylamine	5.57	70	213369	55.21041 ppb		97
20) Hexachloroethane	5.67	117	101805	44.56181 ppb		99
23) Nitrobenzene	5.74	77	324013	60.12982 ppb		95
24) Isophorone	6.01	82	565247	61.25414 ppb		99
25) 2-Nitrophenol	6.10	139	198481	61.16690 ppb		93
26) 2,4-Dimethylphenol	6.15	122	264534	52.18480 ppb		95
27) Benzoic acid	6.27	105	256134	73.44582 ppb		98
28) Bis (2-chloroethoxy) metha	6.25	93	352219	60.11940 ppb		100
29) 2,4-Dichlorophenol	6.36	162	297898	59.06890 ppb		99
30) 1,2,4-Trichlorobenzene	6.46	180	303667	54.03013 ppb		99
31) 3,4-Dimethylphenol	6.49	107	386855	54.62518 ppb		97
32) Naphthalene	6.55	128	992611	60.51211 ppb		99
33) 4-Chloroaniline	6.62	127	233068	33.77148 ppb	#	94
34) 2,6-Dichlorophenol	6.62	162	291187	58.58752 ppb		96
35) Hexachloropropene	6.65	213	108541	26.53637 ppb		100
36) Hexachlorobutadiene	6.69	225	143376	41.53581 ppb		98
37) Caprolactum	7.02	55	103259	62.87035 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201102\1102Y089.D Vial: 89
Acq On : 10 Nov 20 12:17 Operator: MA
Sample : 201105A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 12:24 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	297566	57.73127 ppb		95
39)	2-Methylnaphthalene	7.34	142	621769	56.16353 ppb		99
40)	1-Methylnaphthalene	7.45	142	653348	56.98661 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	68456	16.37278 ppb		94
43)	1,2,4,5-Tetrachlorobenzene	7.53	216	325120	53.70283 ppb		94
44)	2,4,6-Trichlorophenol	7.66	196	232529	57.86086 ppb		96
45)	2,4,5-Trichlorophenol	7.71	196	250718	59.54995 ppb		96
47)	1,1'-Biphenyl	7.88	154	834390	57.81249 ppb		99
48)	2-Chloronaphthalene	7.90	162	673935	59.03981 ppb		99
49)	2-Nitroaniline	8.02	65	162908	57.20342 ppb		85
50)	Dimethyl phthalate	8.24	163	852673	62.43076 ppb		99
51)	2,6-DNT	8.30	165	189847	62.56827 ppb		99
52)	Acenaphthylene	8.38	152	1000017	57.10569 ppb		100
53)	3-Nitroaniline	8.02	138	231472	61.54441 ppb		92
54)	Acenaphthene	8.58	154	647460	55.64049 ppb		99
55)	2,4-Dinitrophenol	8.62	184	124992	74.52288 ppb		94
56)	4-Nitrophenol	8.72	65	137022	64.67193 ppb		76
57)	Dibenzofuran	8.78	168	935815	56.45657 ppb		97
58)	2,4-DNT	8.77	165	264564	61.28347 ppb		98
59)	2,3,4,6-Tetrachlorophenol	8.93	232	215649	61.33245 ppb		93
60)	Diethyl phthalate	9.07	149	766226	57.43785 ppb		99
61)	4-Chlorophenyl phenyl ethe	9.19	204	431720	56.12541 ppb		93
62)	Fluorene	9.18	166	796146	58.06604 ppb		99
63)	4-Nitroaniline	8.50	138	153247	48.68158 ppb	#	75
66)	4,6-Dinitro-2-methylphenol	9.24	198	172978	61.47466 ppb		95
67)	Diphenyl amine	9.33	169	1184069	108.14872 ppb		99
68)	n-Nitrosodiphenylamine	9.33	169	1184069	108.14872 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	652670	61.57556 ppb		91
70)	4-Bromophenyl phenyl ether	9.75	248	251084	57.97714 ppb	#	86
71)	Hexachlorobenzene	9.82	284	270392	58.09431 ppb		99
72)	Atrazine	9.96	200	113165	28.12750 ppb		97
73)	Pentachlorophenol	10.05	266	182309	57.56681 ppb		99
74)	Phenanthrene	10.30	178	1164181	59.28534 ppb		99
75)	Anthracene	10.36	178	1165635	57.11468 ppb		99
76)	Carbazol	10.55	167	1088335	59.28581 ppb		95
77)	Di-n-butylphthalate	10.97	149	1332350	59.97422 ppb		99
78)	Fluoranthene	11.68	202	1342006	59.10257 ppb		98
80)	Benzidine	11.86	184	23596	3.70675 ppb	#	31
81)	Pyrene	11.94	202	1398101	61.70884 ppb		99
83)	Butyl benzylphthalate	12.72	149	597063	63.95921 ppb		97
84)	3,3'-Dichlorobenzidine	13.32	252	204070	27.20360 ppb		98
85)	Benz (a) anthracene	13.35	228	1351191	59.22693 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.39	149	824447	62.97775 ppb		98
87)	Chrysene	13.38	228	1322492	60.23867 ppb		99
88)	Di-n-octylphthalate	14.12	149	1443733	67.35159 ppb		96
90)	Benzo (b) fluoranthene	14.57	252	1286648	59.47309 ppb		98
91)	Benzo (k) fluoranthene	14.60	252	1369383	65.34388 ppb	#	97
92)	Benzo (a) pyrene	14.99	252	1181471	59.72639 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.73	276	1351019	60.49136 ppb		98
94)	Dibenz (a,h) anthracene	16.77	278	1248244	64.15733 ppb		99
95)	Benzo (g,h,i) perylene	17.24	276	1203470	62.02779 ppb		98

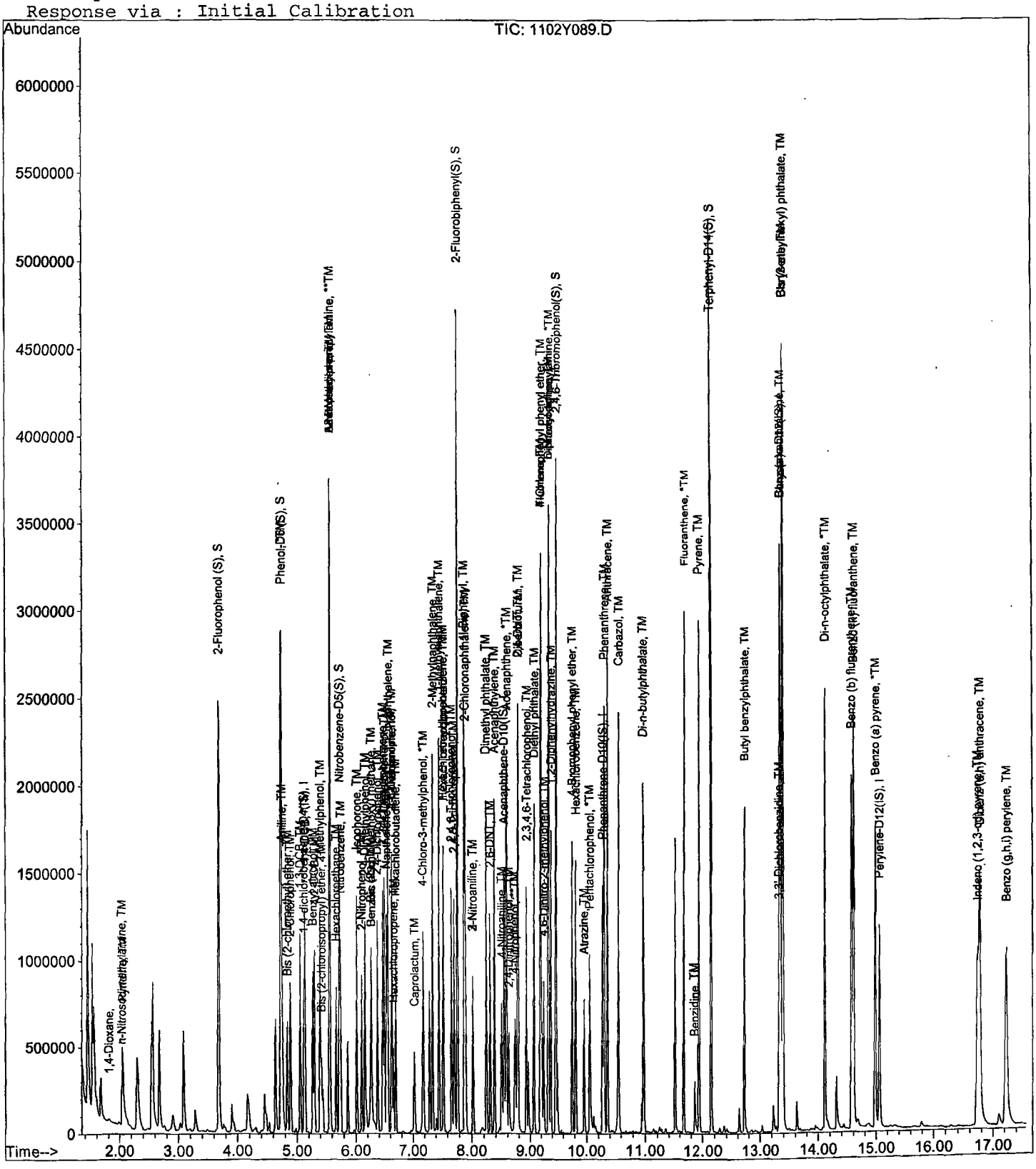
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y089.D Vial: 89
Acq On : 10 Nov 20 12:17 Operator: MA
Sample : 201105A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Nov 10 12:24 2020 Quant Results File: Y1009.RES

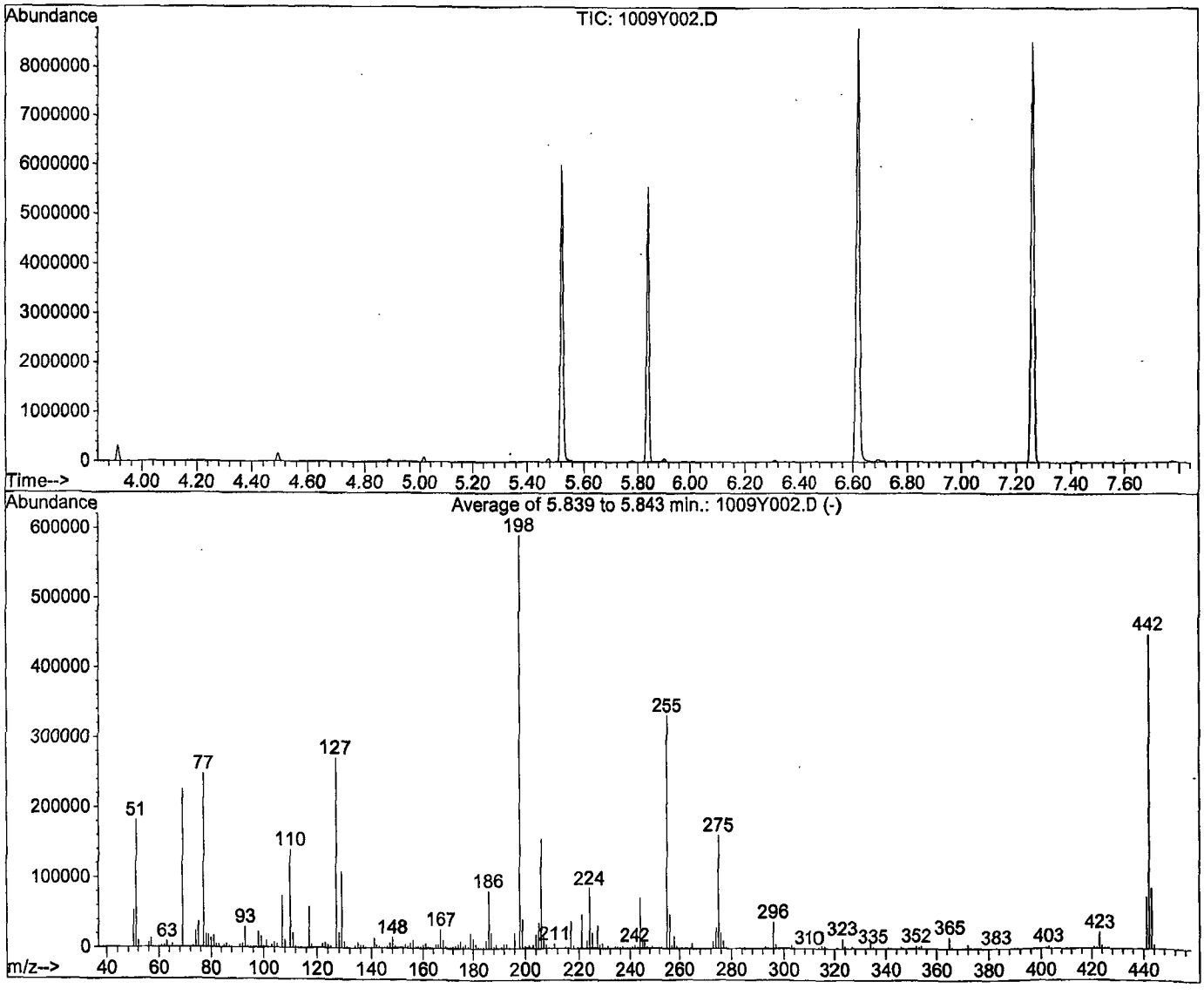
Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y201009\1009Y002.D
Acq On : 9 Oct 20 10:55
Sample : SV TUNE 10/02/20
Misc :

Vial: 2
Operator: MA
Inst : Yoda
Multiplr: 1.00

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 902, 903, 904; Background Corrected with Scan 893

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.7	181099	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.2	468	PASS
127	198	10	80	45.8	270485	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	590528	PASS
199	198	5	9	6.9	40837	PASS
275	198	10	60	27.3	160981	PASS
365	198	1	100	2.7	15871	PASS
441	442	0.01	24	16.5	74272	PASS
442	198	50	500	76.1	449344	PASS
443	442	15	24	19.4	86981	PASS

1009Y002.D Y1009.M Sat Oct 10 15:02:25 2020

Data File Name:	**1009Y002.D**
Data File Path:	**M:\YODA\DATA\Y201009**
Operator:	**MA**
Date Acquired:	**9 Oct 20 10:55**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**2**
Instrument Name:	**Yoda**

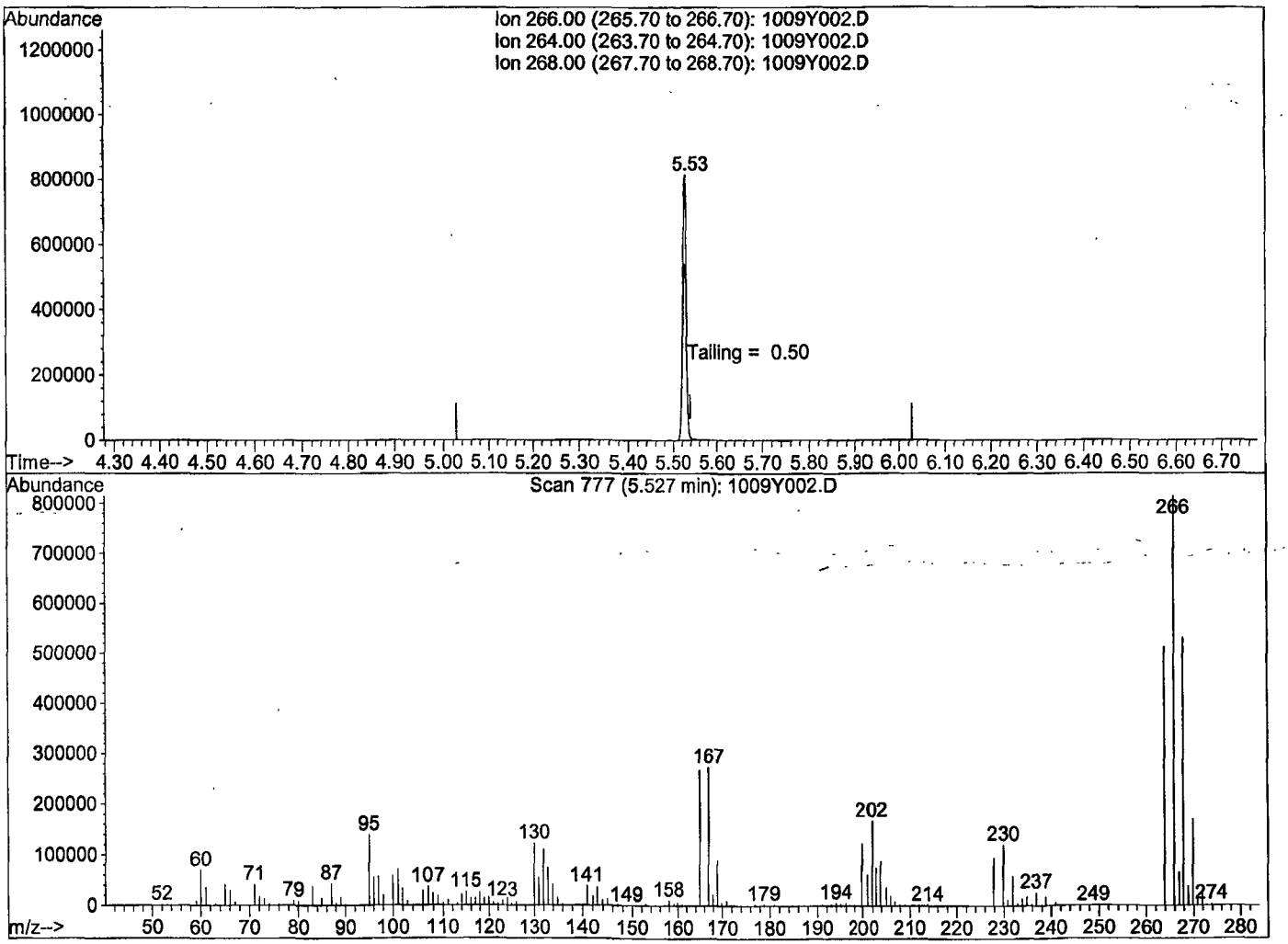
#	Name	Ret Time	Target Response
1)	DDT	7.26	61419600
2)	DDD	7.02	151178
3)	DDE	5.93	385231

Breakdown **0.87**

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y002.D Vial: 2
Acq On : 9 Oct 20 10:55 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 10:49 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration



TIC: 1009Y002.D

(5) Pentachlorophenol

5.53min 0.0000

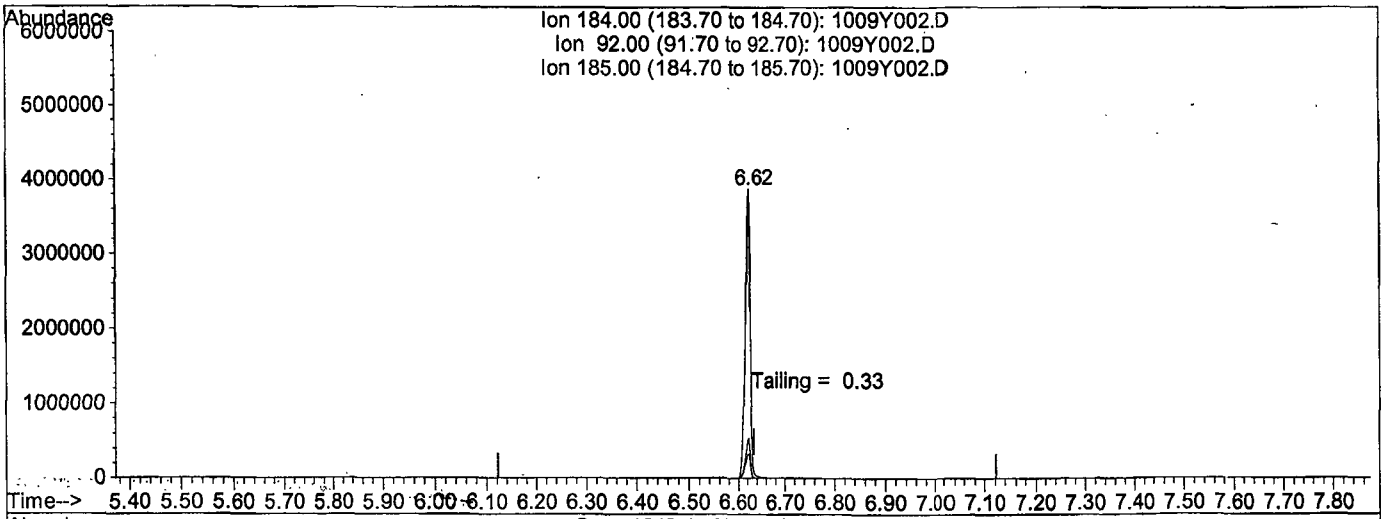
response 5042204

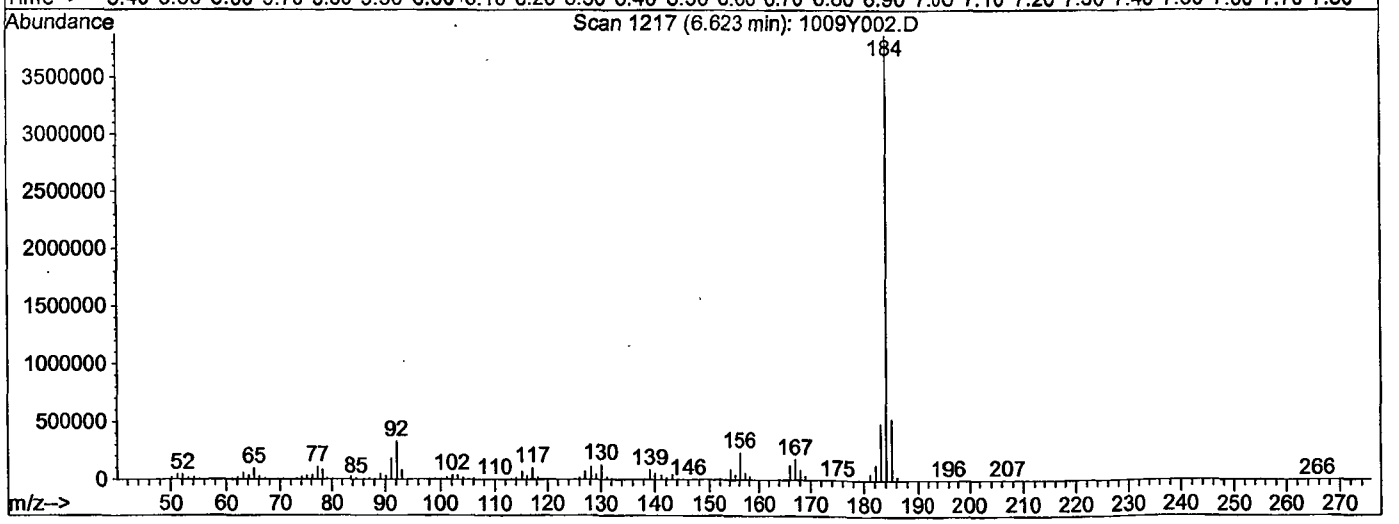
Ion	Exp%	Act%
266.00	100	100
264.00	63.10	64.09
268.00	65.40	65.83
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y002.D Vial: 2
Acq On : 9 Oct 20 10:55 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 10:49 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration





TIC: 1009Y002.D

(6) Benzidine

6.62min 0.0000

response 29089801

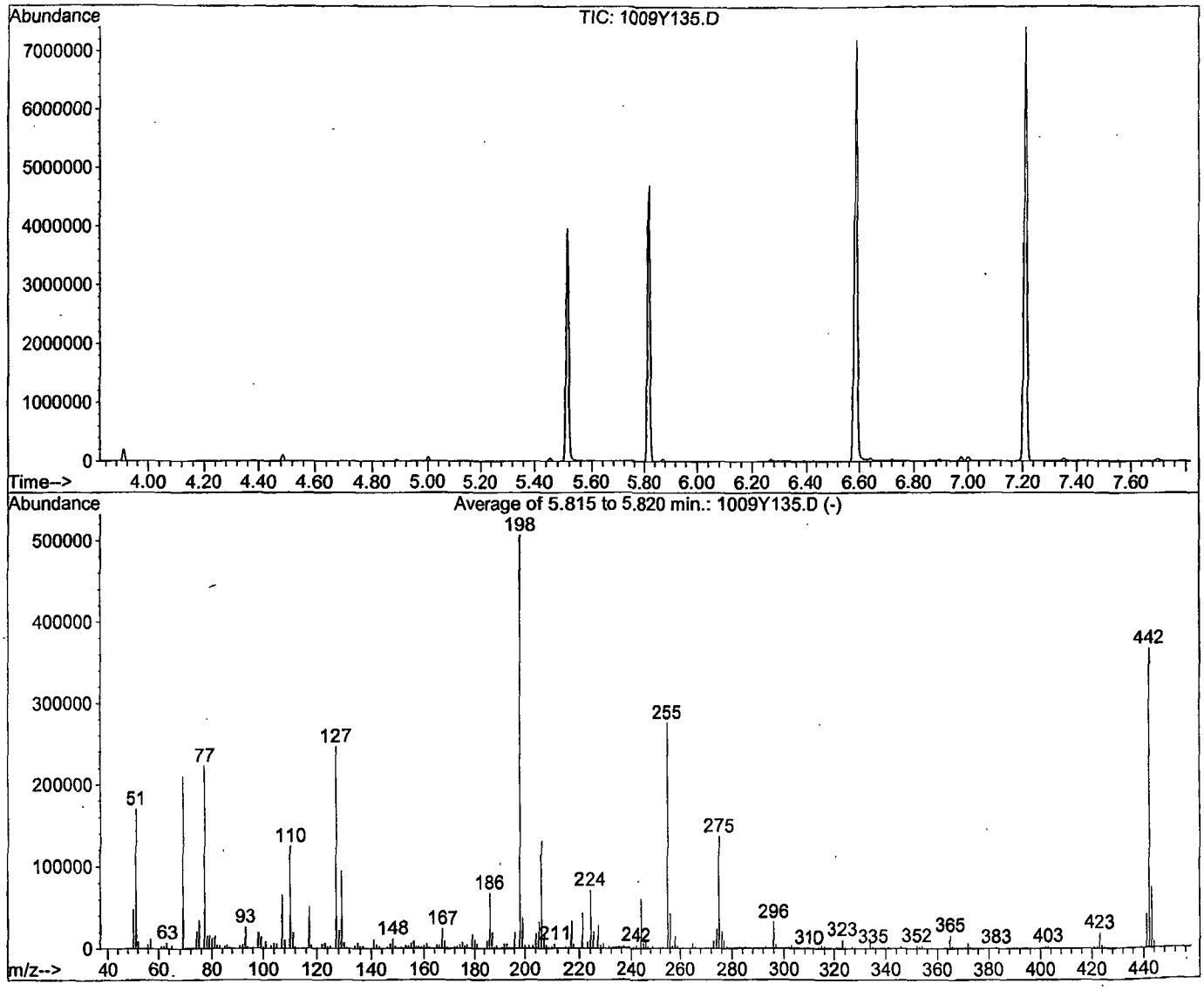
Ion	Exp%	Act%
184.00	100	100
92.00	8.50	8.82
185.00	13.80	13.96
0.00	0.00	0.00

DFTPP

Data File : M:\YODA\DATA\Y201009\1009Y135.D
Acq On : 19 Oct 20 14:53
Sample : SV TUNE 10/2/20
Misc :

Vial: 35
Operator: MA
Inst : Yoda
Multiplr: 1.00

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 893, 894, 895; Background Corrected with Scan 885

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.5	169963	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.4	769	PASS
127	198	10	80	48.6	246805	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	507456	PASS
199	198	5	9	7.3	37027	PASS
275	198	10	60	26.9	136608	PASS
365	198	1	100	3.1	15482	PASS
441	442	0.01	24	11.2	41237	PASS
442	198	50	500	72.6	368341	PASS
443	442	15	24	20.1	74032	PASS

1009Y135.D Y1009.M Mon Oct 19 15:11:20 2020

Data File Name:	**1009Y135.D**
Data File Path:	**M:\YODA\DATA\Y201009**
Operator:	**MA**
Date Acquired:	**19 Oct 2020 14:53**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/2/20**
Vial Number:	**35**
Instrument Name:	**Yoda**

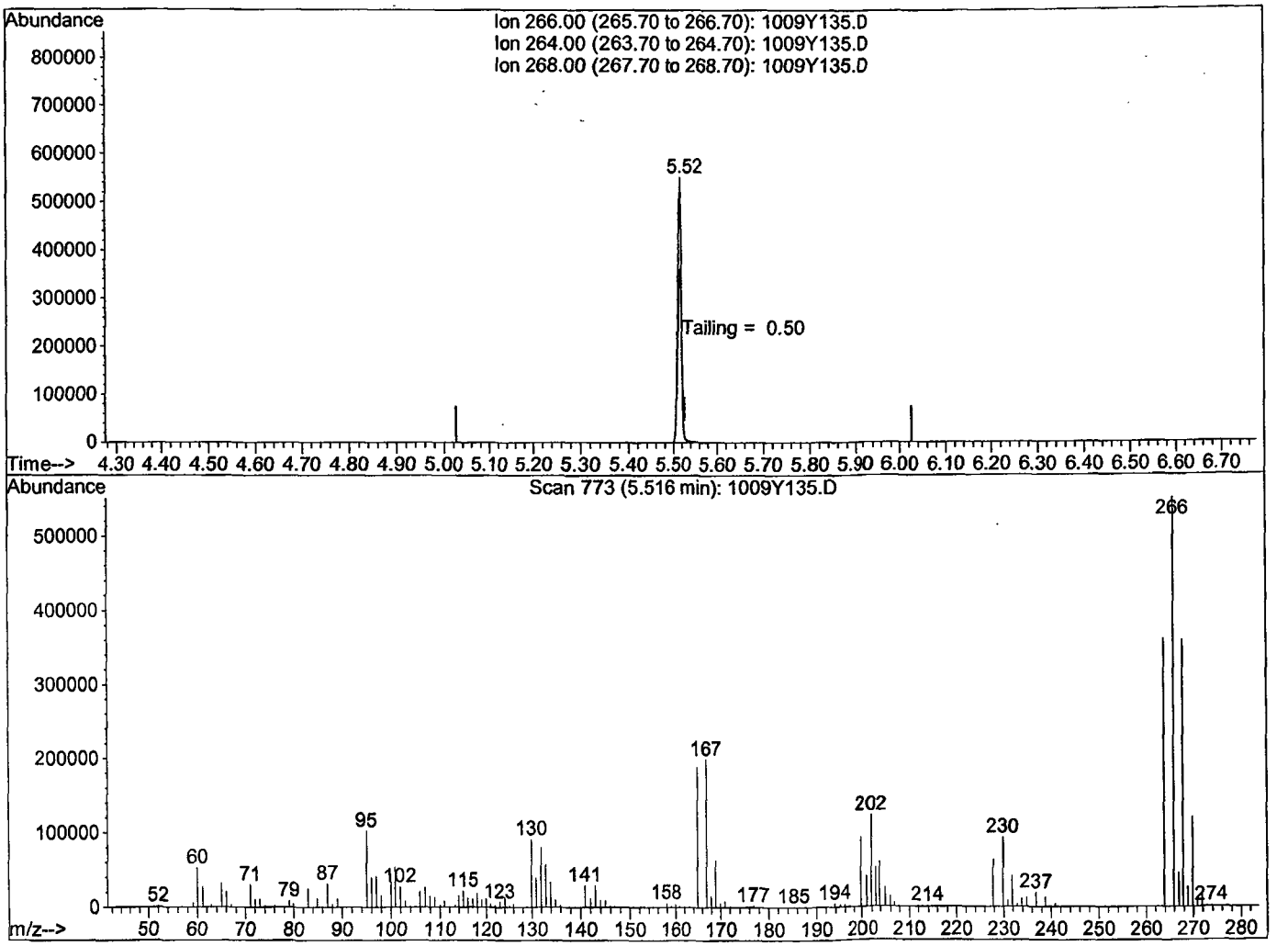
#	Name	Ret Time	Target Response
1)	DDT	7.26	53182000
2)	DDD	7.02	492614
3)	DDE	5.93	0

Breakdown **0.92**

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y135.D Vial: 35
Acq On : 19 Oct 20 14:53 Operator: MA
Sample : SV TUNE 10/2/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 19 15:11 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 16 14:19:59 2020
Response via : Single Level Calibration



TIC: 1009Y135.D

(5) Pentachlorophenol

5.52min 0.0000

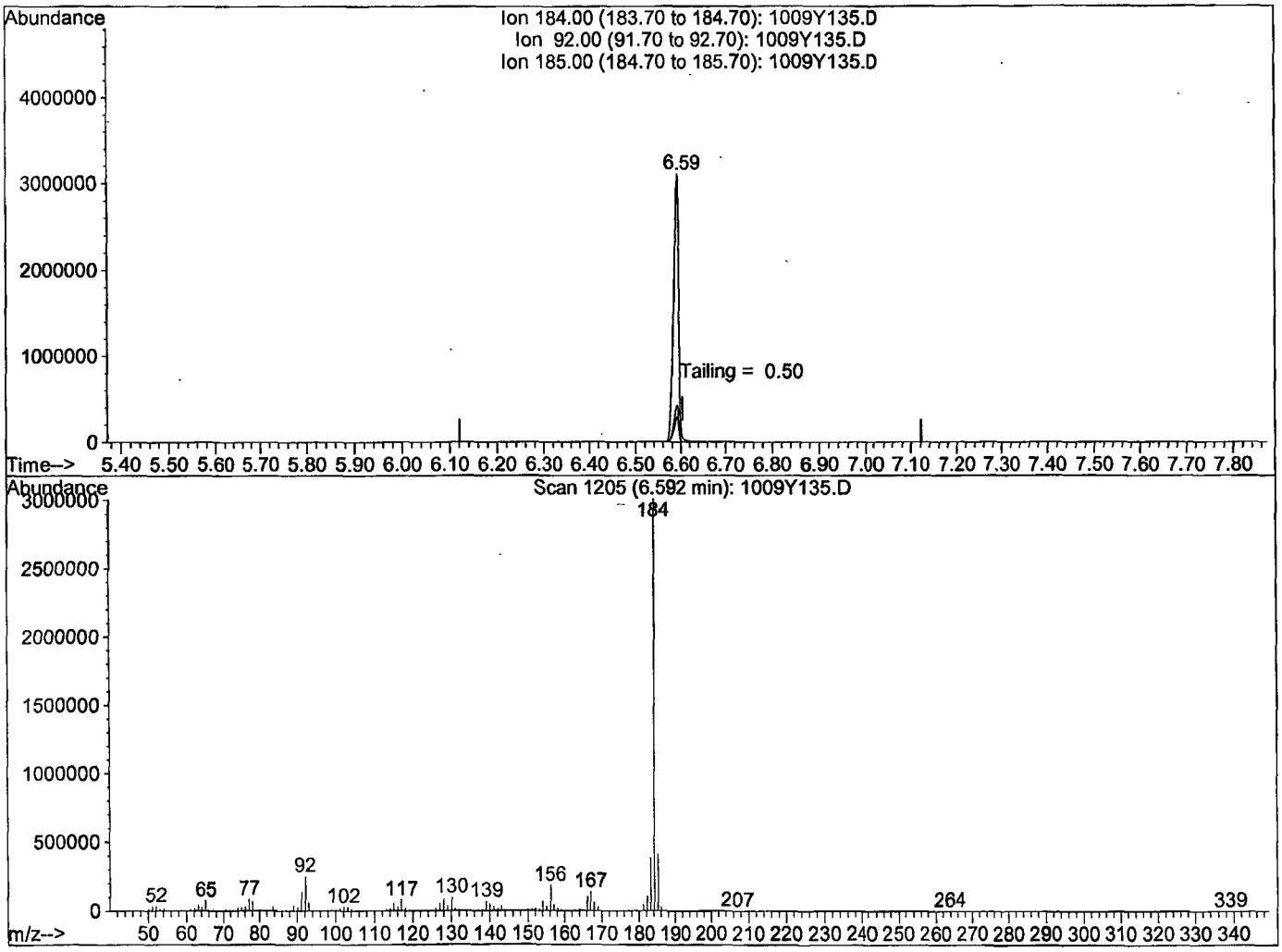
response 3454514

Ion	Exp%	Act%
266.00	100	100
264.00	61.80	64.47
268.00	63.50	64.57
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y135.D Vial: 35
Acq On : 19 Oct 20 14:53 Operator: MA
Sample : SV TUNE 10/2/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 19 15:11 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 16 14:19:59 2020
Response via : Single Level Calibration



TIC: 1009Y135.D

(6) Benzidine

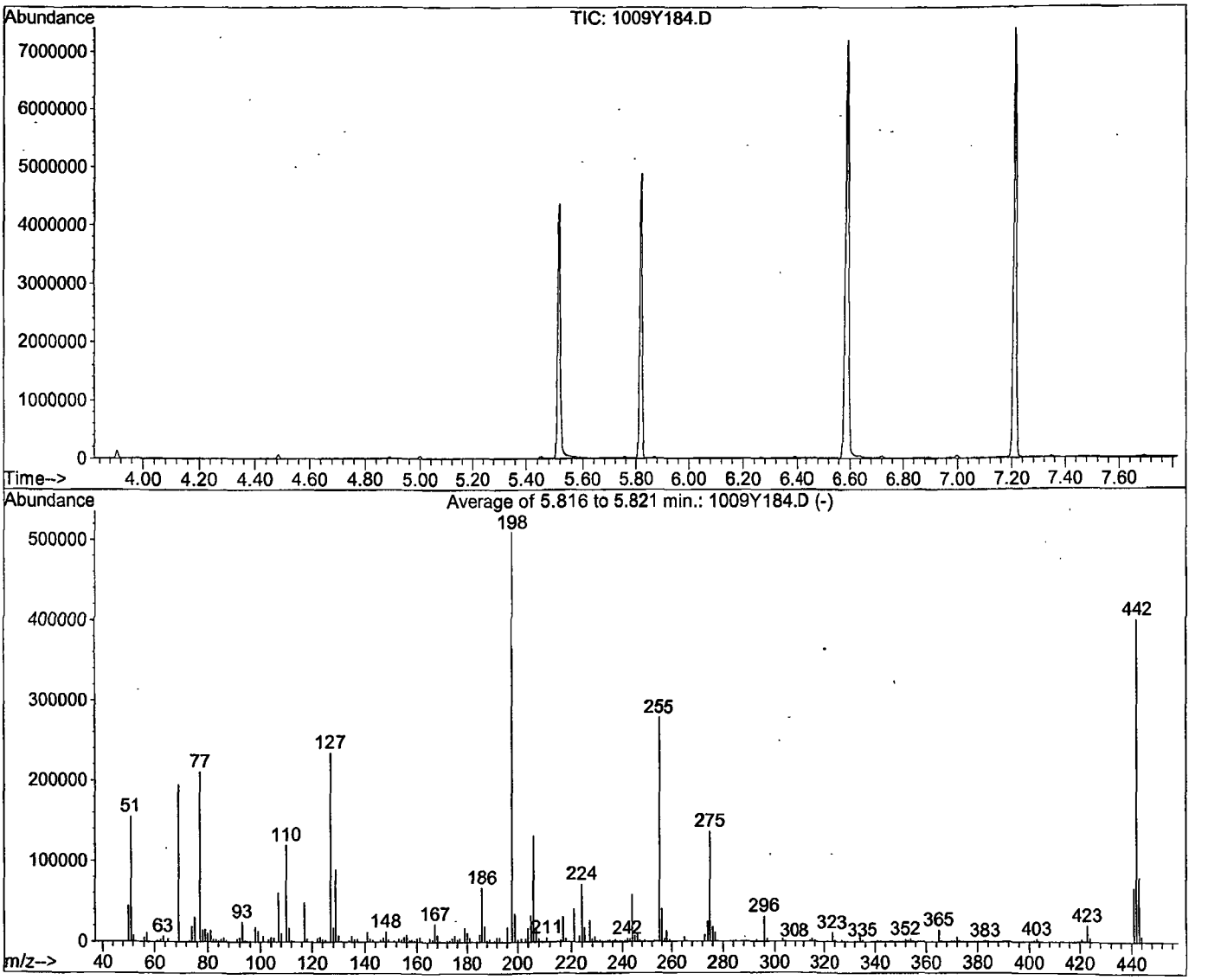
6.59min 0.0000

response 25274289

Ion	Exp%	Act%
184.00	100	100
92.00	9.60	9.04
185.00	14.00	13.90
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y201009\1009Y184.D Vial: 84
Acq On : 22 Oct 20 11:14 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 893, 894, 895; Background Corrected with Scan 884

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.4	155050	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	46.2	235456	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	509589	PASS
199	198	5	9	6.9	35072	PASS
275	198	10	60	26.8	136563	PASS
365	198	1	100	2.9	14642	PASS
441	442	0.01	24	16.7	66613	PASS
442	198	50	500	78.4	399360	PASS
443	442	15	24	19.9	79669	PASS

1009Y184.D Y1009.M Thu Oct 22 11:22:01 2020

Data File Name:	**1009Y184.D**
Data File Path:	**M:\YODA\DATA\Y201009**
Operator:	**MA**
Date Acquired:	**22 Oct 2020 11:14**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**84**
Instrument Name:	**Yoda**

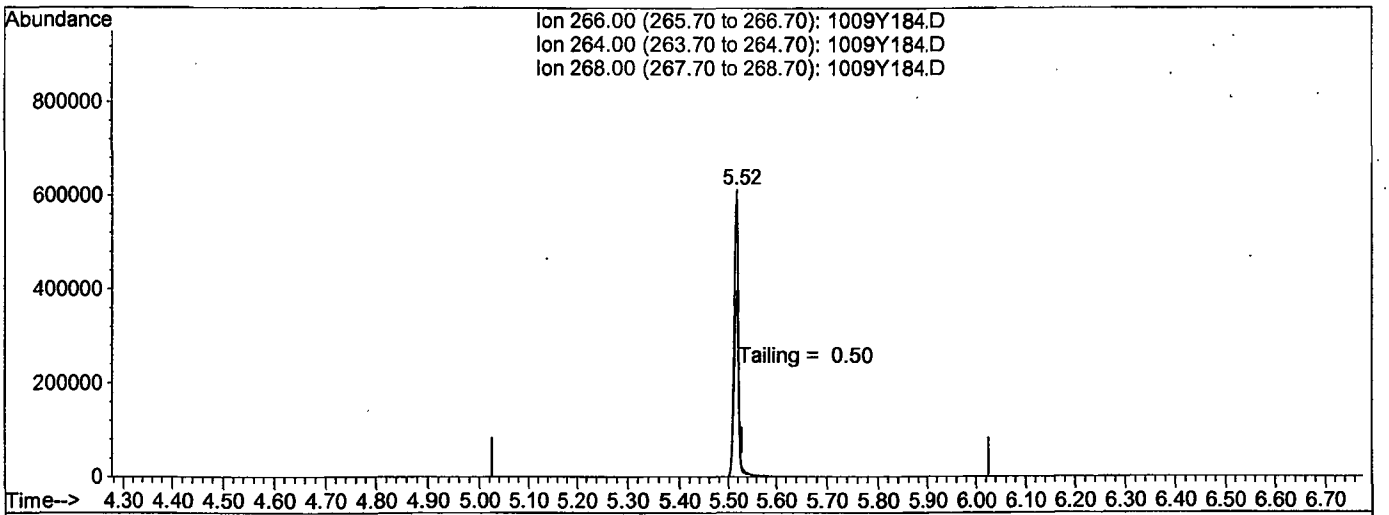
#	Name	Ret Time	Target Response
1)	DDT	7.26	52011900
2)	DDD	7.02	397295
3)	DDE	5.93	0

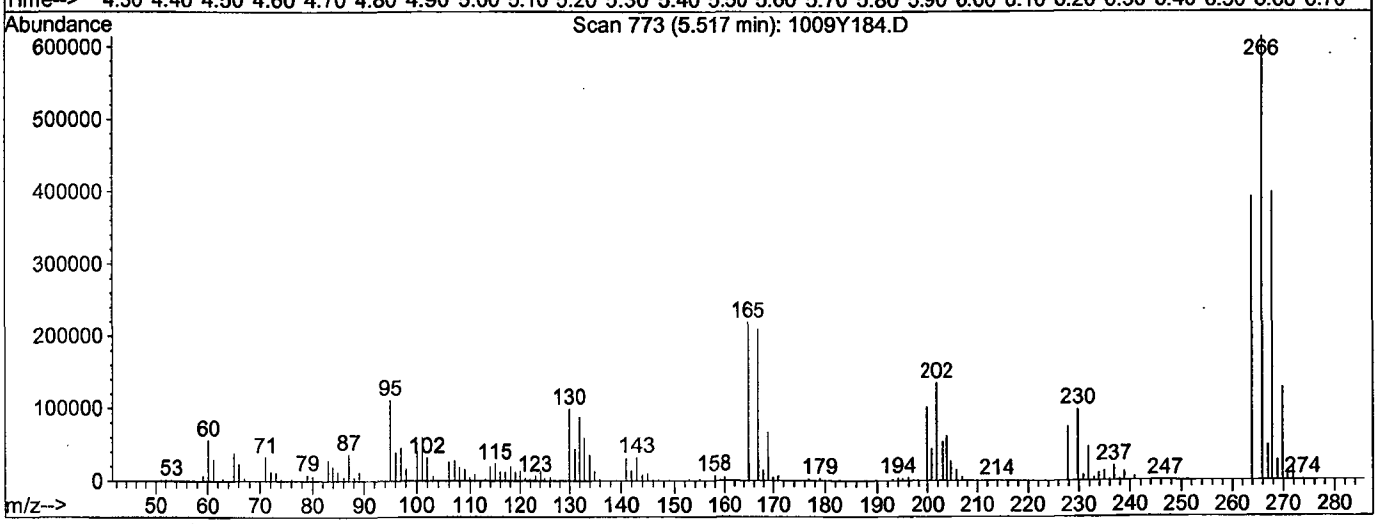
Breakdown **0.76**

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y184.D Vial: 84
Acq On : 22 Oct 20 11:14 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 22 11:22 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 16 14:19:59 2020
Response via : Single Level Calibration





TIC: 1009Y184.D

(5) Pentachlorophenol

5.52min 0.0000

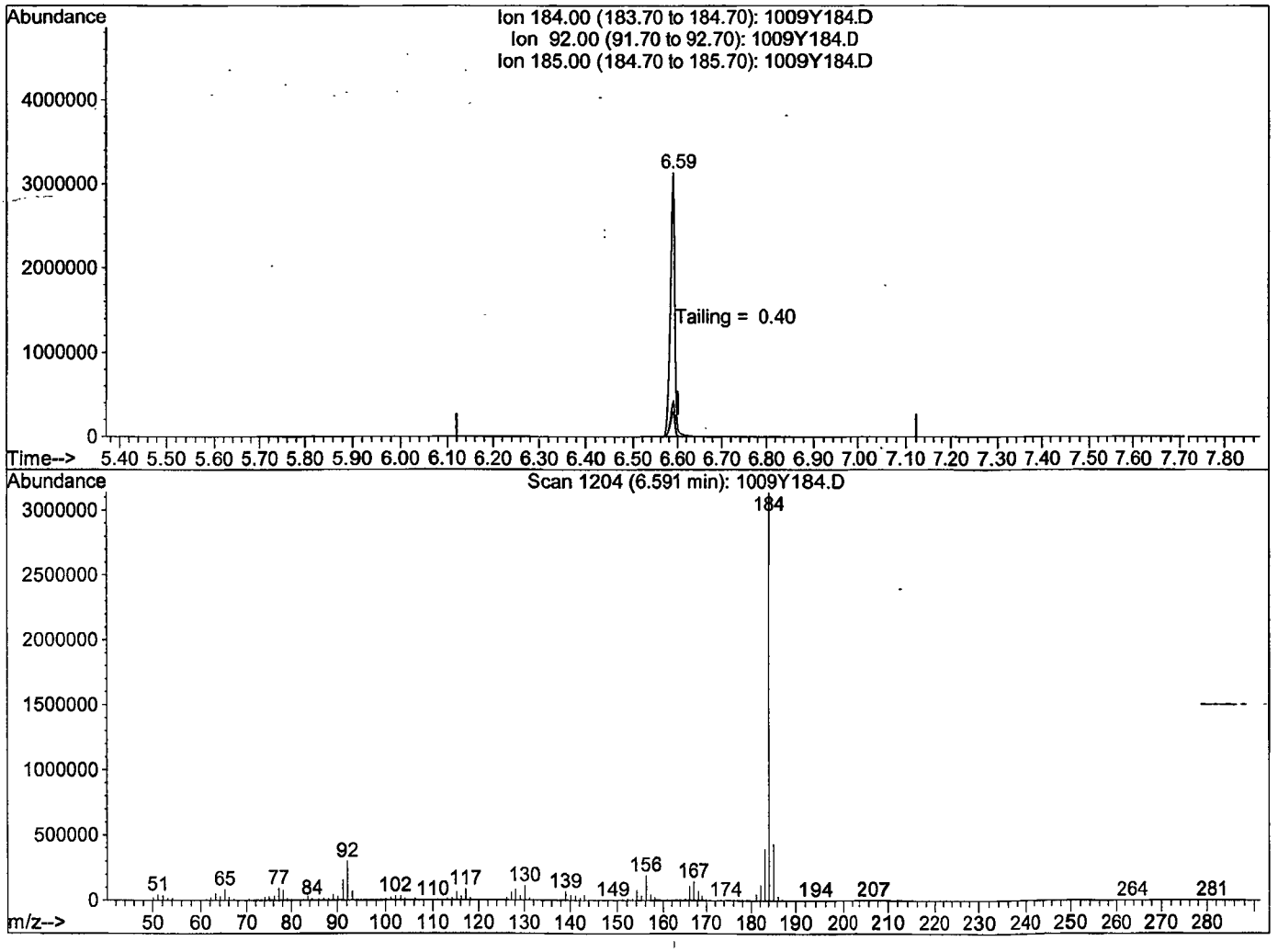
response 3817443

Ion	Exp%	Act%
266.00	100	100
264.00	61.80	63.12
268.00	63.50	64.65
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y184.D Vial: 84
Acq On : 22 Oct 20 11:14 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 22 11:22 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 16 14:19:59 2020
Response via : Single Level Calibration



TIC: 1009Y184.D

(6) Benzidine

6.59min 0.0000

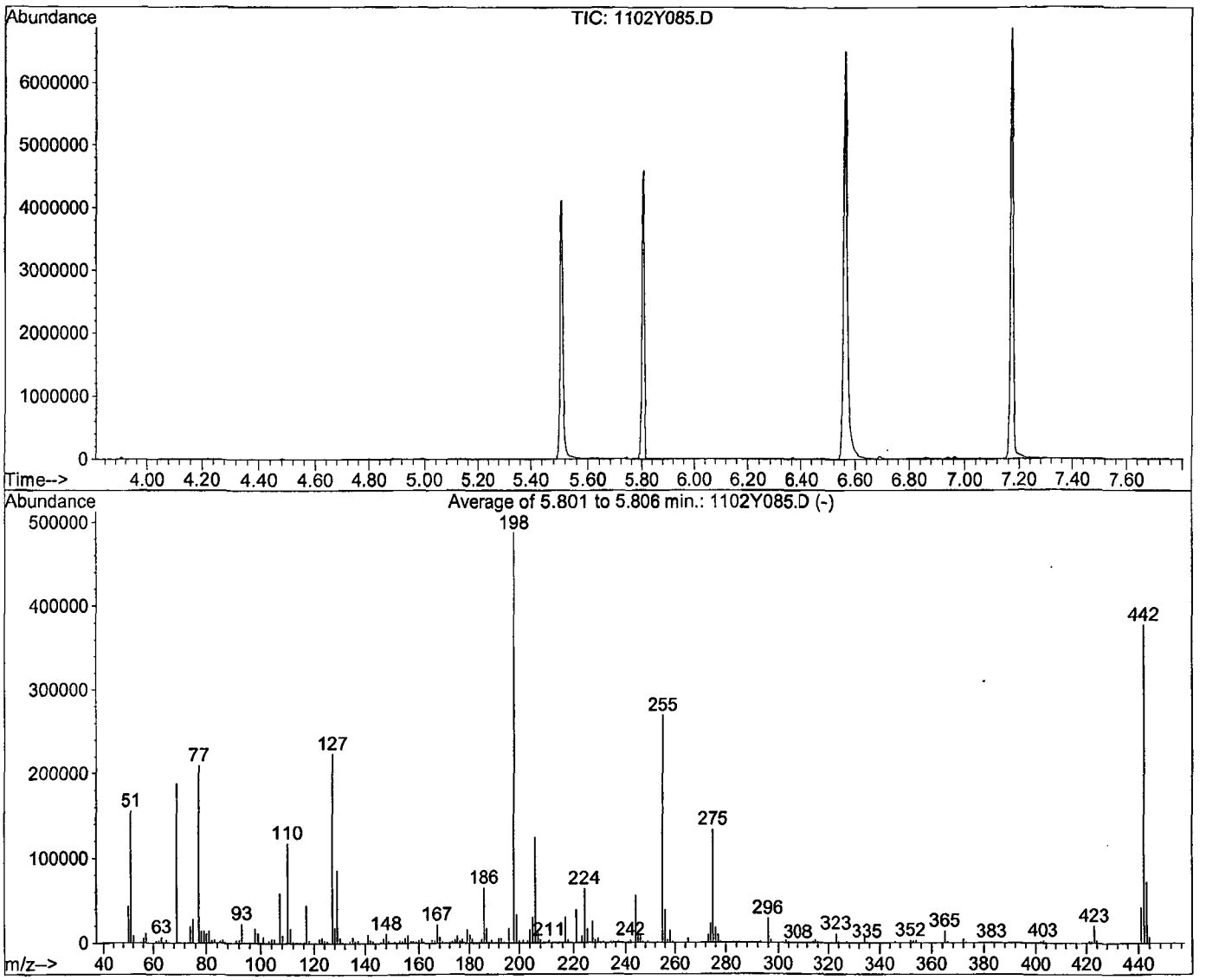
response 23850557

Ion	Exp%	Act%
184.00	100	100
92.00	9.60	9.35
185.00	14.00	13.89
0.00	0.00	0.00

DFTPP

Data File : M:\YODA\DATA\Y201102\1102Y085.D Vial: 85
Acq On : 10 Nov 20 10:35 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 886, 887, 888; Background Corrected with Scan 877

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.9	155750	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.1	215	PASS
127	198	10	80	46.0	224107	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	487701	PASS
199	198	5	9	6.8	33171	PASS
275	198	10	60	27.4	133605	PASS
365	198	1	100	2.9	14291	PASS
441	442	0.01	24	11.3	42776	PASS
442	198	50	500	77.5	378176	PASS
443	442	15	24	19.2	72501	PASS

Data File Name:	**1102Y085.D**
Data File Path:	**M:\YODA\DATA\Y201102**
Operator:	**MA**
Date Acquired:	**10 Nov 2020 10:35**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**85**
Instrument Name:	**Yoda**

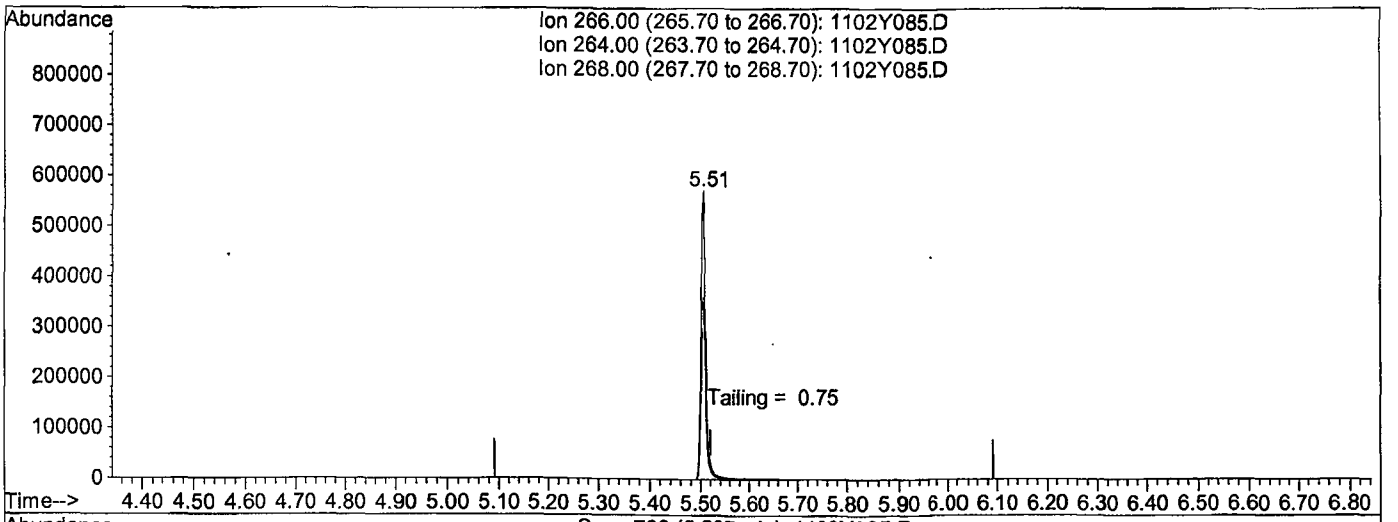
#	Name	Ret Time	Target Response
1)	DDT	7.25	49144700
2)	DDD	7.01	241456
3)	DDE	6.21	0

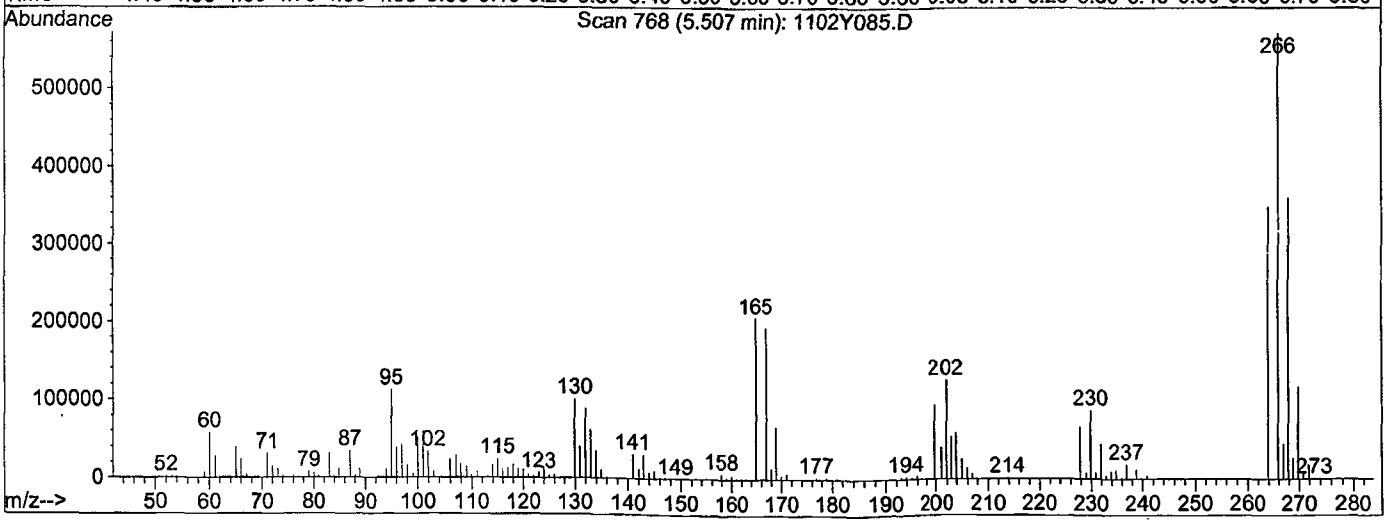
Breakdown **0.49**

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y085.D Vial: 85
Acq On : 10 Nov 20 10:35 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Nov 10 10:52 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201102\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Mon Oct 26 10:44:41 2020
Response via : Single Level Calibration





TIC: 1102Y085.D

(5) Pentachlorophenol

5.51min 0.0000

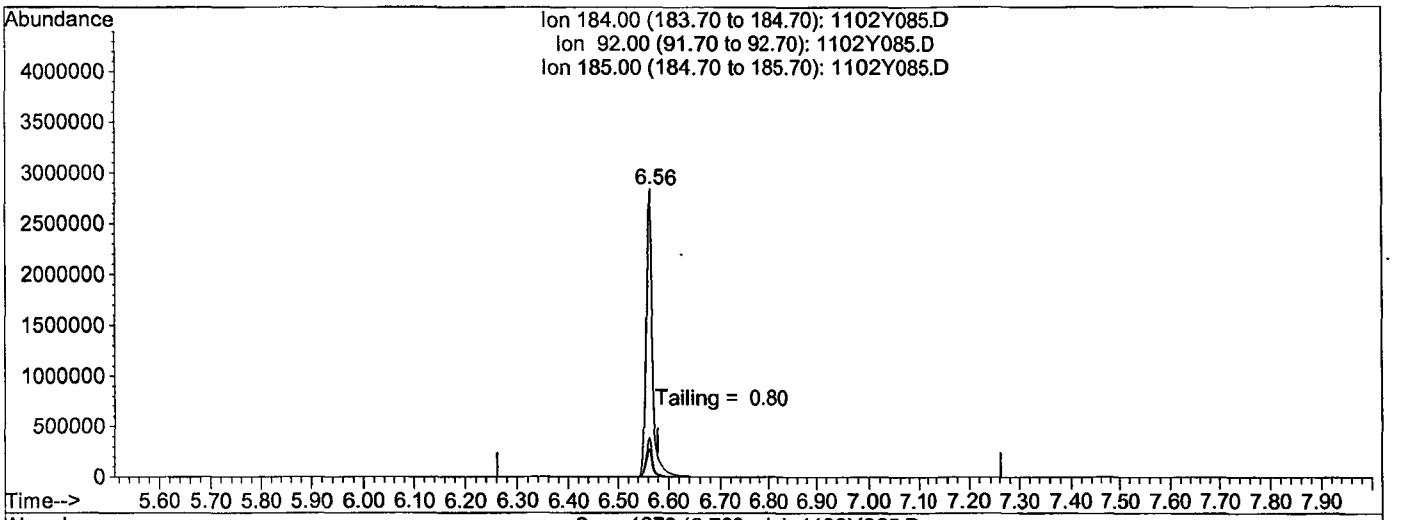
response 3756288

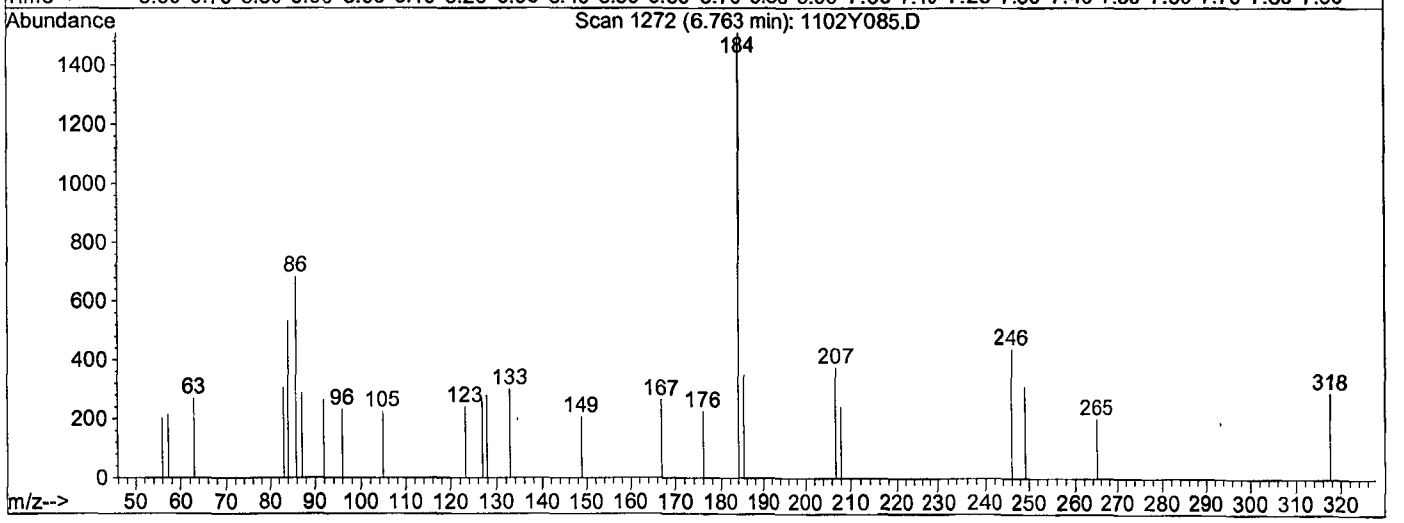
Ion	Exp%	Act%
266.00	100	100
264.00	61.70	62.38
268.00	63.80	66.42
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y085.D Vial: 85
Acq On : 10 Nov 20 10:35 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Nov 10 10:52 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201102\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Mon Oct 26 10:44:41 2020
Response via : Single Level Calibration





TIC: 1102Y085.D

(6) Benzidine

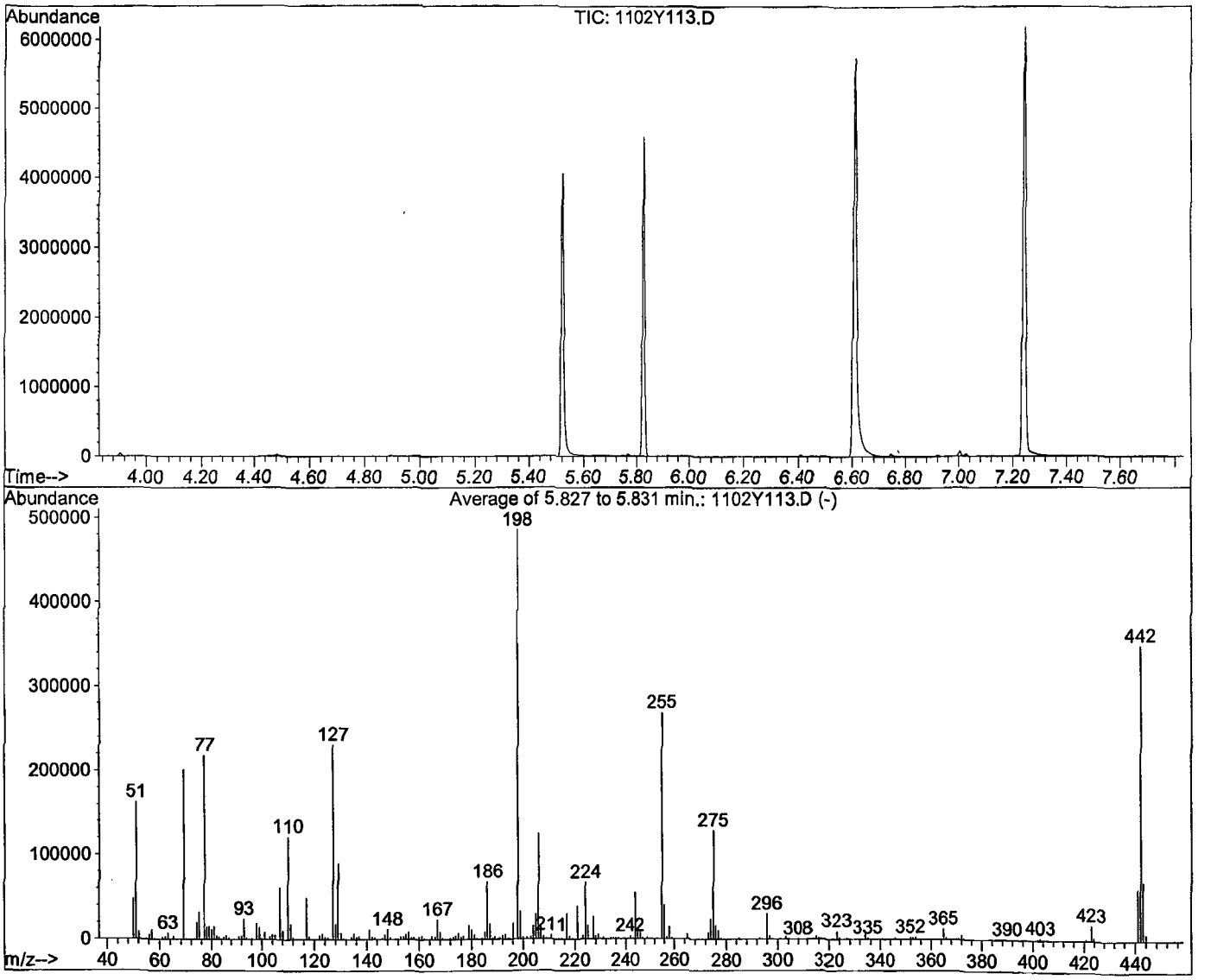
6.76min 0.0000

response 0

Ion	Exp%	Act%
184.00	100	0.00
92.00	9.70	0.00#
185.00	14.10	0.00#
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y201102\1102Y113.D Vial: 13
Acq On : 11 Nov 20 11:49 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00

Method : M:\YODA\DATA\Y201102\Y1009.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 896, 897, 898; Background Corrected with Scan 888

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.5	162593	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1200	PASS
127	198	10	80	47.6	230955	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	485419	PASS
199	198	5	9	6.8	32827	PASS
275	198	10	60	26.5	128549	PASS
365	198	1	100	2.6	12709	PASS
441	442	0.01	24	17.5	60992	PASS
442	198	50	500	71.9	348864	PASS
443	442	15	24	19.7	68827	PASS

Data File Name:	**1102Y113.D**
Data File Path:	**M:\YODA\DATA\Y201102**
Operator:	**MA**
Date Acquired:	**11 Nov 2020 11:49**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**13**
Instrument Name:	**Yoda**

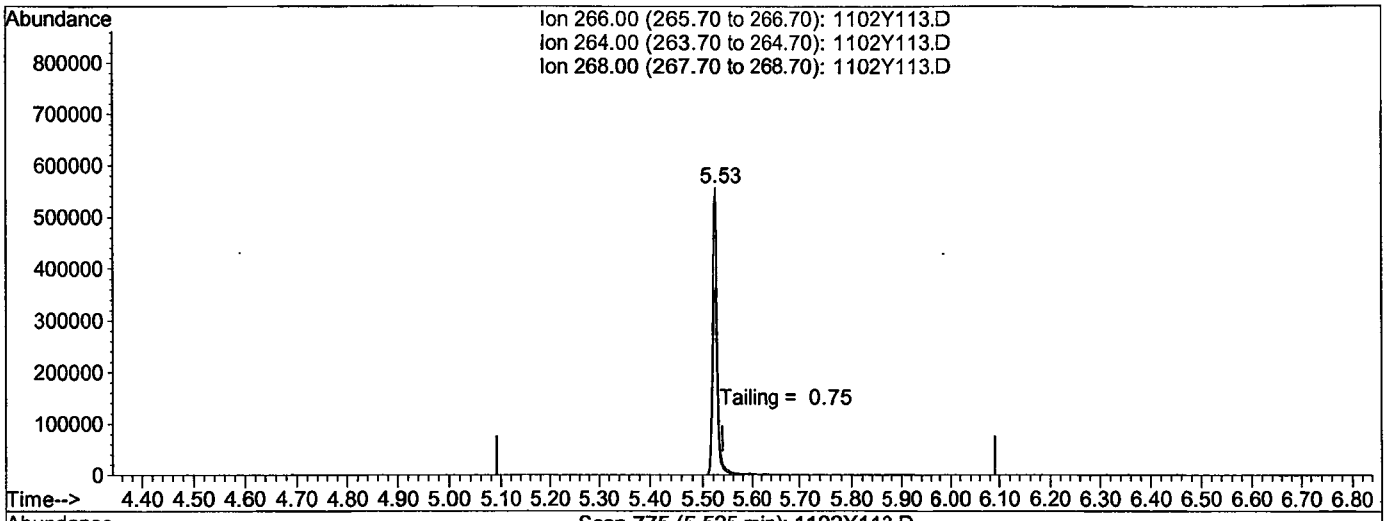
#	Name	Ret Time	Target Response
1)	DDT	7.25	46154900
2)	DDD	7.01	419306
3)	DDE	6.21	0

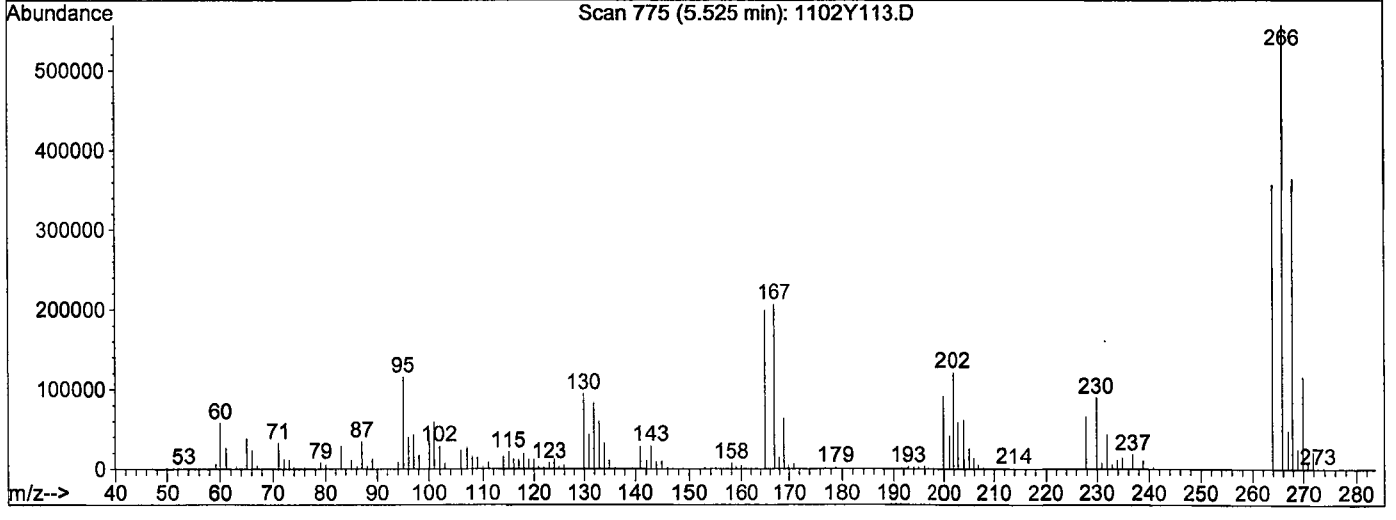
Breakdown **0.90**

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y113.D Vial: 13
Acq On : 11 Nov 20 11:49 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Nov 11 12:11 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201102\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Mon Oct 26 10:44:41 2020
Response via : Single Level Calibration





TIC: 1102Y113.D

(5) Pentachlorophenol

5.53min 0.0000

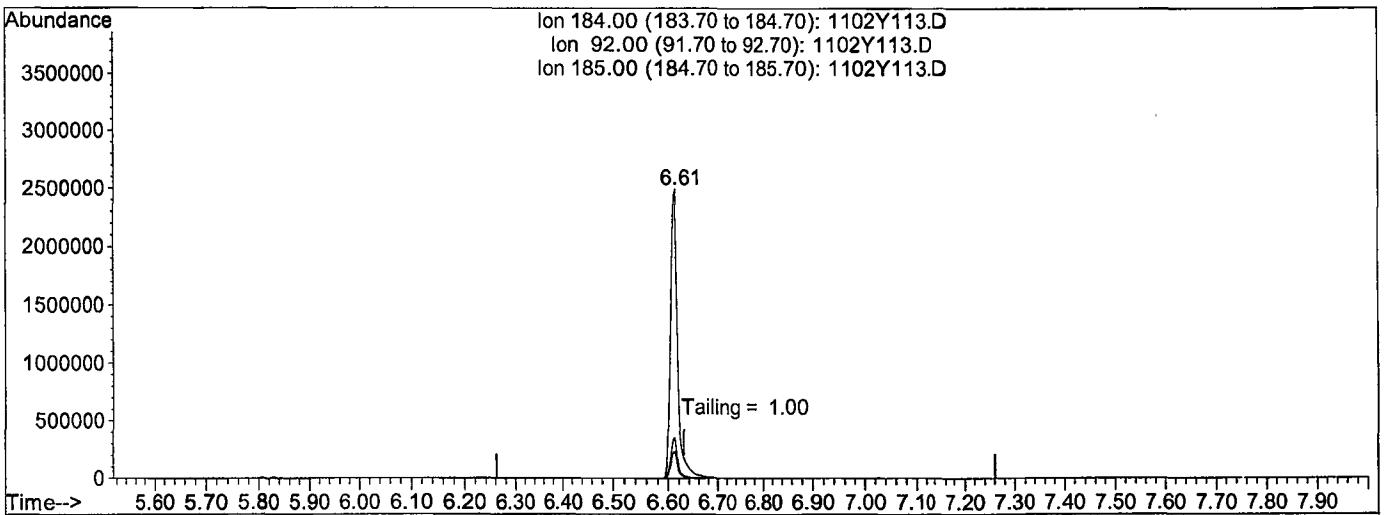
response 3728233

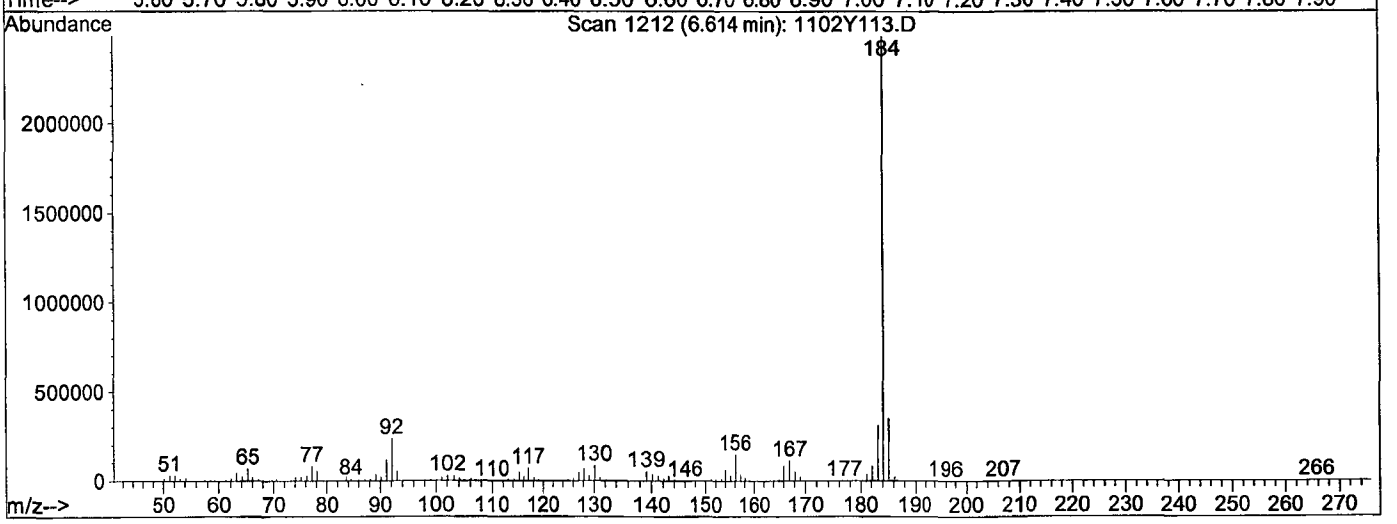
Ion	Exp%	Act%
266.00	100	100
264.00	61.70	63.24
268.00	63.80	65.10
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201102\1102Y113.D Vial: 13
Acq On : 11 Nov 20 11:49 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Nov 11 12:11 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201102\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Mon Oct 26 10:44:41 2020
Response via : Single Level Calibration





TIC: 1102Y113.D

(6) Benzidine

6.61min 0.0000

response 22852002

Ion	Exp%	Act%
184.00	100	100
92.00	9.70	9.24
185.00	14.10	14.15
0.00	0.00	0.00

Name of Final Standard: 8270 Full Scan Standard Curve
Prep Date: 07/22/20
Exp Date: 03/03/20
Prep'd By (Initials): CD

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	4 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	5 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	5 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	10 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	20 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	50 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	30 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	40 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	50 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			

Name of Final Standard: 8270 Full Scan Second Source
Prep Date: 07/22/20
Exp Date: 07/22/21
Prep'd By (Initials): CD

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	07/20/20	07/20/21	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			

Name of Final Standard	8270 Stock	Prep'd By (Initials)	CD
Prep Date	07/20/20		
Exp Date	07/20/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	041720-50312	07/20/21	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	042820-50317	07/20/21	1.0 mL	"	"	200 ug/mL
10004	Absolute	10004	2000	103119-50322	07/20/21	1.0 mL	"	"	200 ug/mL
10005	Absolute	10005	2000	031618-50362	07/20/21	1.0 mL	"	"	200 ug/mL
10006	Absolute	10006	2000	050420-50327	07/20/21	1.0 mL	"	"	200 ug/mL
10007	Absolute	10007	2000	060118-50332	07/20/21	1.0 mL	"	"	200 ug/mL
10018	Absolute	10018	2000	022620-50337	07/20/21	1.0 mL	"	"	200 ug/mL
70023	Absolute	70023	1000	112119-50342	07/20/21	1.0 mL	"	"	100 ug/mL
82705	Absolute	82705	2000	050620-50352	07/20/21	1.0 mL	"	"	200 ug/mL
94552	Absolute	94552	various	032520-50356	07/20/21	1.0 mL	"	"	various

Name of Final Standard	8270 2nd Source Stock	Prep'd By (Initials)	CD
Prep Date	07/20/20		
Exp Date	01/17/21		

Initial Standard Information						Final Standard Information			
Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39204	07/20/21	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	041619-50074	07/20/21	1.0 mL	"	"	200 ug/mL
10004	Absolute	10004	2000	071618-50210	07/20/21	1.0 mL	"	"	200 ug/mL
10005	Absolute	10005	2000	011620-49804	07/20/21	1.0 mL	"	"	200 ug/mL
10006	Absolute	10006	2000	011718-39209	1/17/21	1.0 mL	"	"	200 ug/mL
10007	Absolute	10007	2000	011620-49809	07/20/21	1.0 mL	"	"	200 ug/mL
10018	Absolute	10018	2000	091919-49568	07/20/21	1.0 mL	"	"	200 ug/mL
70023	Absolute	70023	1000	051618-39216	07/20/21	1.0 mL	"	"	100 ug/mL
82705	Absolute	82705	2000	081418-50071	07/20/21	1.0 mL	"	"	200 ug/mL
94552	Absolute	94552	various	053119-50061	07/20/21	1.0 mL	"	"	various

Name of Final Standard	8270 Working Surrogate Stock	Prep'd By (Initials)	JP
Prep Date	03/03/20		
Exp Date	03/03/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Surrogate Stock	APPL	8270 Surrogate Stock	2000:1000 ug/mL	03/03/20	03/03/21	1.5mL	7.5 mL	MC DW717.6 mL	400:200 ug/mL

8270 Internal Standard Ampules

Name of Final Standard	(4)	**Prep'd By (Initials)**	MA
Prep Date	05/29/20		
Exp Date	12/31/25		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile Internal Standard	Restek	31206	2000 ug/mL	AO157142-49996to49999	12/31/25	3 mL	3 mL	NA	2000ug/mL

Name of Final Standard	8270 Full Scan Spike	Prep'd By (Initials)	CD
Prep Date	06/19/20		
Exp Date	09/06/20		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	(or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	051018-40533, 40534	05/10/21	2.0 mL	80 mL	Methanol Lot# 235140	50 ug/mL
10002	Absolute	10002	2000	090919-49813 042820-50313	09/09/22 04/28/23	2.0 mL			50 ug/mL
10004	Absolute	10004	2000	051018-39197, 39198	05/10/21	2.0 mL			50 ug/mL
10005	Absolute	10005	2000	032018-49803 031618-50358	03/20/23 3/16/23	2.0 mL			50 ug/mL
10006	Absolute	10006	2000	011718-39209, 39210	01/17/21	2.0 mL			50 ug/mL
10007	Absolute	10007	2000	080116-49808 060118-50328	08/01/21 06/01/23	2.0 mL			50 ug/mL
10018	Absolute	10018	2000	030216-38196, 98197	03/02/21	2.0 mL			50 ug/mL
70023	Absolute	70023	1000	112119-50338, 49825	11/21/24	2.0 mL			25 ug/mL
82705	Absolute	82705	2000	090617-40540 081418-50069	09/06/20 08/14/21	2.0 mL			50 ug/mL
94552	Absolute	94552	various	032520-50357, 50057	03/25/22	2.0 mL			various

Name of Final Standard	**8270 Surrogate**	**Prep'd By (Initials)**	**CD**
Prep Date	**05/11/20**		
Exp Date	**05/11/21**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0158618-50005,50007	03/31/28	20 mL	1000 mL	MeOH:Acetone 2:1	200 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0158684-50001,50002,50003,500011	02/28/26	20 mL			100 ug/mL

Name of Final Standard	8270 Surrogate	Prep'd By (Initials)	MA
Prep Date	10/06/20		
Exp Date	10/06/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0158618-50006, A0152714-49436	09/30/27	20 mL	200 mL	Acetone246130/ MC59353 1:1	1000 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0158684-50244,5024550248,50004	02/28/26	20 mL			500 ug/mL

Use 0.2ml in extraction.

Name of Final Standard	8270 Spike	Prep'd By (Initials)	MA
Prep Date	10/06/20		
Exp Date	10/06/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	041720-50309,50311	04/17/23	2.0 mL	80 mL	Acetone Lot# 0246130	50 ug/mL
10002	Absolute	10002	2000	042820-50646,50647	04/28/23	2.0 mL			50 ug/mL
10004	Absolute	10004	2000	103119-50319,50321	10/31/24	2.0 mL			50 ug/mL
10005	Absolute	10005	2000	011620-50671,50672	01/16/25	2.0 mL			50 ug/mL
10006	Absolute	10006	2000	050420-50324,50325	05/04/23	2.0 mL			50 ug/mL
10007	Absolute	10007	2000	060148-50066,50067	06/01/23	2.0 mL			50 ug/mL
10018	Absolute	10018	2000	022620-50334,50687	02/26/25	2.0 mL			50 ug/mL
70023	Absolute	70023	1000	112119-50691,50692	11/21/24	2.0 mL			25 ug/mL
82705	Absolute	82705	2000	050620-50349,50350	05/06/23	2.0 mL			50 ug/mL
94552	Absolute	94552	various	032520-50711,50712	03/25/22	2.0 mL			various

_LIQ003

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	201015A	Extraction Method	LIQ003	Units	mL

Spiked ID 1	8270T Spike 10/6/20 ex 10/6/21		Surrogate ID 1	8270 Surrogate 10/6/20 ex 10/6/21	
Spiked ID 2	Sim Spike 9/11/20 ex 9/11/21		Surrogate ID 2	SIM Surrogate 8/11/20 ex 8/11/21 ex 8/11/21	
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/15/20 15:00	
Spiked ID 8			Ext. End Time:	10/19/20 13:50	
			GC Requires Extract By:		

pH1	2		Water Bath Temp 1 °C	EWB5 70/69.1 °
pH2	14		Water Bath Temp 2 °C	EWB6 75/73
pH3			Water Bath Temp 3 °C	

Spiked By: **Date** 10/15/20 **Witnessed By:** **Date** 10/15/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201015A Blk				0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	
2	201015A LCS-1		1	1	0.2	1 equip	800	1	2/1	10/15/20 15:00	
3	201015A LCS-2		0.125	2	0.05	2 equip	800	1	2/1	10/15/20 15:00	
4	201015A LCSD-1		1	1	0.2	1 equip	800	1	2/1	10/15/20 15:00	
5	201015A LCSD-2		0.125	2	0.05	2 equip	800	1	2/1	10/15/20 15:00	
6	BA19987	BA19987W01			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93716
7	BA20023	BA20023W16			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93704
8	BA20025	BA20025W14			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93704
9	BA20054 MS-1	BA20054W26	1	1	0.2	1 equip	800	1	2/1	10/15/20 15:00	93719
10	BA20054 MSD-1	BA20054W31	1	1	0.2	1 equip	800	1	2/1	10/15/20 15:00	93719
11	BA20054 MS-2	BA20054W28	0.125	2	0.05	2 equip	800	1	2/1	10/15/20 15:00	93719
12	BA20054 MSD-2	BA20054W27	0.125	2	0.05	2 equip	800	1	2/1	10/15/20 15:00	93719
13	BA20054	BA20054W33			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93719
14	BA20055	BA20055W08			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93719
15	BA20057	BA20057W15			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93719
16	BA20058	BA20058W10			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93719

Solvent and Lot#	
PH Strips	HC904495
Dichloromethane (DCM)	60127
1+1 H2SO4	231834
10N NaOH	10/6/20
Filter Paper	400178
Na2SO4	2019070279

Extraction COC Transfer	
Extraction lab employee Initials	YL
GC analyst's initials	MA
Date	10/19/20
Time	14:00
Refrigerator	GC_C

	Technician's Initials
Scanned By	
Sample Preparation	
Extraction	
Concentration	

Modified	10/19/20 1:49:05 PM

Reviewed By: **Date**

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	201015A	Extraction Method	LIQ003	Units	mL

Spiked ID 1	8270T Spike 10/6/20 ex 10/6/21		Surrogate ID 1	8270 Surrogate 10/6/20 ex 10/6/21	
Spiked ID 2	Sim Spike 9/11/20 ex 9/11/21		Surrogate ID 2	SIM Surrogate 8/11/20 ex 8/11/21 ex 8/11/21	
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/15/20 15:00	
Spiked ID 8			Ext. End Time:	10/19/20 13:50	
			GC Requires Extract By:		

pH1	2		Water Bath Temp 1 °C	EWB5 70/69.1 °
pH2	14		Water Bath Temp 2 °C	EWB6 75/73
pH3			Water Bath Temp 3 °C	

Spiked By: **Date** 10/15/20 **Witnessed By:** **Date** 10/15/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	BA20060	BA20060W13			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93719
18	BA20062	BA20062W16			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93719
19	BA20064	BA20064W13			0.2,0.05	1,2 equip	800	1	2/1	10/15/20 15:00	93719
20	BA20184	BA20184W13			0.2,0.05	1,2 equip	800	1	2/1	10/16/20 13:45	93740
21	BA20186	BA20186W16			0.2,0.05	1,2 equip	800	1	2/1	10/16/20 13:45	93740
22	BA20188	BA20188W16			0.2,0.05	1,2 equip	800	1	2/1	10/16/20 13:45	93740
23	BA20190	BA20190W13			0.2,0.05	1,2 equip	800	1	2/1	10/16/20 13:45	93740

Solvent and Lot#	
PH Strips	HC904495
Dichloromethane (DCM)	60127
1+1 H2SO4	231834
10N NaOH	10/6/20
Filter Paper	400178
Na2SO4	2019070279

Extraction COC Transfer	
Extraction lab employee Initials	YL
GC analyst's initials	MA
Date	
Time	
Refrigerator	GC_C

	Technician's Initials
Scanned By	
Sample Preparation	
Extraction	
Concentration	

Modified	10/19/20 1:49:05 PM

Reviewed By: **Date**

_LIQ003

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	201105A	Extraction Method	LIQ003	Units	mL

Spiked ID 1	8270T Spike 10/6/20 ex 10/6/21		Surrogate ID 1	8270 Surrogate 10/06/20 ex 10/06/21	
Spiked ID 2	Sim Spike 9/11/20 ex 9/11/21		Surrogate ID 2	SIM Surrogate 8/11/20 ex 8/11/21	
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	11/05/20 10:20	
Spiked ID 8			Ext. End Time:	11/06/20 8:00	
			GC Requires Extract By:		

pH1	2	11/05/20 13:50	Water Bath Temp 1 °C	EWB5 75/74.1 °
pH2	14	11/06/20 12:15	Water Bath Temp 2 °C	EWB6 75/73
pH3			Water Bath Temp 3 °C	EWB7 75/74.1 °

Spiked By: DL **Date** 11/05/20 **Witnessed By:** KY **Date** 11/05/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201105A Blk				0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	
						equip	EWB5				
2	201105A LCS-1		1	1	0.2	1	800	1	2/1	11/05/20 10:20	
						equip	EWB5				
3	201105A LCS-2		0.125	2	0.05	2	800	1	2/1	11/05/20 10:20	
						equip	EWB5				
4	201105A LCSD-1		1	1	0.2	1	800	1	2/1	11/05/20 10:20	
						equip	EWB5				
5	201105A LCSD-2		0.125	2	0.05	2	800	1	2/1	11/05/20 10:20	
						equip	EWB5				
6	BA19987	BA19987W01			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93716
						equip	EWB5				
7	BA20023	BA20023W13			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93704
						equip	EWB5				
8	BA20025	BA20025W13			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93704
						equip	EWB5				
9	BA20054 MS-1	BA20054W29	1	1	0.2	1	800	1	2/1	11/05/20 10:20	93719
						equip	EWB5				
10	BA20054 MSD-1	BA20054W25	1	1	0.2	1	800	1	2/1	11/05/20 10:20	93719
						equip	EWB5				
11	BA20054 MS-2	BA20054W32	0.125	2	0.05	2	800	1	2/1	11/05/20 10:20	93719
						equip	EWB5				
12	BA20054 MSD-2	BA20054W30	0.125	2	0.05	2	800	1	2/1	11/05/20 10:20	93719
						equip	EWB5				
13	BA20054	BA20054W28			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93719
						equip	EWB5				
14	BA20055	BA20055W09			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93719
						equip	EWB6				
15	BA20057	BA20057W14			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93719
						equip	EWB6				
16	BA20058	BA20058W08			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93719
						equip	EWB6				

Solvent and Lot#	
PH Strips	HC904495
Dichloromethane (DCM)	60182
1+1 H2SO4	231834
10N NaOH	102220
Filter Paper	400178
Na2SO4	2019070279

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	MA
Date	11/10/20
Time	10:00
Refrigerator	GC_C

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified	11/12/20 12:11:10 PM

Reviewed By: **Date**

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	201105A	Extraction Method	LIQ003	Units	mL

Spiked ID 1	8270T Spike 10/6/20 ex 10/6/21		Surrogate ID 1	8270 Surrogate 10/06/20 ex 10/06/21	
Spiked ID 2	Sim Spike 9/11/20 ex 9/11/21		Surrogate ID 2	SIM Surrogate 8/11/20 ex 8/11/21	
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	11/05/20 10:20	
Spiked ID 8			Ext. End Time:	11/06/20 8:00	
			GC Requires Extract By:		

pH1	2	11/05/20 13:50	Water Bath Temp 1 °C	EWB5 75/74.1 °
pH2	14	11/06/20 12:15	Water Bath Temp 2 °C	EWB6 75/73
pH3			Water Bath Temp 3 °C	EWB7 75/74.1 °

Spiked By: DL **Date** 11/05/20 **Witnessed By:** KY **Date** 11/05/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	BA20060	BA20060W16			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93719
						equip	EWB6				
18	BA20062	BA20062W14			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93719
						equip	EWB6				
19	BA20064	BA20064W16			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93719
						equip	EWB6				
20	BA20184	BA20184W14			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93740
						equip	EWB6				
21	BA20186	BA20186W15			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93740
						equip	EWB7				
22	BA20188	BA20188W15			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93740
						equip	EWB7				
23	BA20190	BA20190W14			0.2,0.05	1,2	800	1	2/1	11/05/20 10:20	93740
						equip	EWB7				

Solvent and Lot#	
PH Strips	HC904495
Dichloromethane (DCM)	60182
1+1 H2SO4	231834
10N NaOH	102220
Filter Paper	400178
Na2SO4	2019070279

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	MA
Date	
Time	
Refrigerator	GC_C

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified	11/12/20 12:11:10 PM

Reviewed By: **Date**

Injection Log

Directory: M:\YODA\DATA\Y201009\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	1009Y002.D	1	SV TUNE 10/02/20		9 Oct 20 10:55
3	1009Y003.D	1	4ug/mL 8270 7/22/20		9 Oct 20 11:14
4	1009Y004.D	1	5ug/mL 8270 7/22/20		9 Oct 20 11:40
5	1009Y005.D	1	10ug/mL 8270 7/22/20		9 Oct 20 12:05
6	1009Y006.D	1	20ug/mL 8270 7/22/20		9 Oct 20 12:31
7	1009Y007.D	1	40ug/mL 8270 7/22/20		9 Oct 20 12:56
8	1009Y008.D	1	50ug/mL 8270 7/22/20		9 Oct 20 13:22
9	1009Y009.D	1	60ug/mL 8270 7/22/20		9 Oct 20 13:48
10	1009Y010.D	1	80ug/mL 8270 7/22/20		9 Oct 20 14:13
11	1009Y011.D	1	100ug/mL 8270 7/22/20		9 Oct 20 14:38
12	1009Y012.D	1	SS 50ug/mL 8270 7/22/20		9 Oct 20 15:04
35	1009Y135.D	1	SV TUNE 10/2/20		19 Oct 20 14:53
37	1009Y137.D	1	50ug/mL 8270 8/13/20 (2)		19 Oct 20 15:36
38	1009Y138.D	1.25	201015A BLK 1/800		19 Oct 20 16:05
39	1009Y139.D	1.25	201015A LCS-1 1/800		19 Oct 20 16:30
40	1009Y140.D	1.25	201015A LCSD-1 1/800		19 Oct 20 16:56
56	1009Y156.D	1	50ug/mL 8270 7/22/20 (4)		19 Oct 20 23:46
84	1009Y184.D	1	SV TUNE 10/02/20		22 Oct 20 11:14
85	1009Y185.D	1	50ug/mL 8270 7/22/20 96)		22 Oct 20 11:30
86	1009Y186.D	1.25	BA20184W13 1/800		22 Oct 20 11:59
87	1009Y187.D	1.25	BA20186W16 1/800		22 Oct 20 12:24
88	1009Y188.D	1.25	BA20188W16 1/800		22 Oct 20 12:50
89	1009Y189.D	1.25	BA20190W13 1/800		22 Oct 20 13:15
10	1009Y210.D	1	50ug/mL 8270 8/13/20 (2)		22 Oct 20 22:36
85	1102Y085.D	1	SV TUNE 10/02/20		10 Nov 20 10:35
86	1102Y086.D	1	50ug/mL 8270 7/22/20 (6)		10 Nov 20 10:50
87	1102Y087.D	1.25	201105A BLK 1/800		10 Nov 20 11:27
88	1102Y088.D	1.25	201105A LCS-1 1/800		10 Nov 20 11:52
89	1102Y089.D	1.25	201105A LCSD-1 1/800		10 Nov 20 12:17
1	1102Y101.D	1.25	BA20184W14 1/800		10 Nov 20 17:18
2	1102Y102.D	1.25	BA20186W15 1/800		10 Nov 20 17:43
3	1102Y103.D	1.25	BA20188W15 1/800		10 Nov 20 18:08
10	1102Y110.D	1	50ug/mL 8270 8/16/20(3)		10 Nov 20 21:04
13	1102Y113.D	1	SV TUNE 10/02/20		11 Nov 20 11:49
14	1102Y114.D	1	50ug/mL 8270 7/22/20 (6)		11 Nov 20 12:04
26	1102Y126.D	1.25	BA20190W14 1/800		11 Nov 20 17:20
27	1102Y127.D	1	50ug/mL 8270 8/16/20(3)		11 Nov 20 17:46

ORGANICS

Calibration Data

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/16/20
Matrix: Instrument: Linus
Initials: HA

		Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD	Type	r^2	Q	MRF
			1016L003.D	1016L004.D	1016L005.D	1016L006.D	1016L007.D	1016L008.D	1016L009.D	1016L010.D								
1	I	Napthalene-D8(IS)																
2	TM	Naphthalene	1.072	1.011	0.9676	1.022	0.9167	0.9139	0.9182	0.8593			0.96	7.4	TM			0.700
3	S	2-Methylnaphthalene-D10 (2M	1.176	1.100	1.058	1.081	1.179	1.100	1.103	1.115			1.1	3.9	S			
4	TM	2-Methylnaphthalene	0.7140	0.6668	0.6549	0.6735	0.6684	0.6295	0.6063	0.5873			0.65	6.2	TM			0.400
5	TM	1-Methylnaphthalene	0.7055	0.6769	0.6442	0.6665	0.6278	0.6160	0.6081	0.5750			0.64	6.6	TM			
6	I	Acenaphthene-D10(IS)																
7	TM	Acenaphthylene	4.020	3.698	3.609	3.849	3.853	3.617	3.693	3.090			3.7	7.5	TM			0.900
8	*TM	Acenaphthene	1.255	1.178	1.070	1.129	1.081	1.066	1.067	0.8941			1.1	9.6	*TM			0.900
9	TM	Fluorene	1.425	1.326	1.361	1.398	1.361	1.378	1.359	1.238			1.4	4.1	TM			0.900
10	I	Phenanthrene-D10(IS)																
11	TM	Phenanthrene	1.106	1.072	1.058	1.094	1.014	1.075	0.8950	0.8282			1.0	10.0	TM			0.700
12	TM	Anthracene	1.004	0.9774	0.9456	0.9873	0.9650	0.9772	0.8354	0.7568			0.93	9.4	TM			0.700
13	S	Fluoranthene-D10 (FRT)	1.325	1.172	1.200	1.205	1.196	1.284	1.270	1.255			1.2	4.3	S			
14	*TM	Fluoranthene	1.487	1.413	1.446	1.478	1.433	1.459	1.208	1.113			1.4	10	*TM			0.600
15	I	Chrysene-D12(IS)																
16	TM	Pyrene	1.113	1.074	1.065	1.102	1.058	1.049	0.9360	0.9508			1.0	6.3	TM			0.600
17	TM	Benz (a) anthracene	1.122	1.058	1.018	1.026	1.036	1.020	0.9993	0.9390			1.0	5.0	TM			0.800
18	TM	Chrysene	1.164	1.114	1.105	1.100	1.015	1.027	0.9314	0.8998			1.0	8.9	TM			0.700
19	TM	Indeno (1,2,3-cd) pyrene	1.282	1.197	1.190	1.247	1.262	1.263	1.262	1.253			1.2	2.7	TM			0.500
20	I	Perylene-D12(IS)																
21	TM	Benzo (b) fluoranthene	0.9987	0.9431	0.8304	0.8853	0.9907	1.093	1.028	0.9179			0.96	8.7	TM			0.700
22	TM	Benzo (k) fluoranthene	1.083	1.006	1.104	1.167	1.140	1.122	0.9848	0.9491			1.1	7.4	TM			0.700
23	*TM	Benzo (a) pyrene	0.8612	0.7892	0.8030	0.9158	0.9626	0.9531	0.9222	0.8779			0.89	7.3	*TM			0.700
24	TM	Dibenz (a,h) anthracene	0.9238	0.8974	0.9091	0.9540	1.001	1.033	0.9122	1.001			0.95	5.4	TM			0.400
25	TM	Benzo (g,h,i) perylene	1.019	0.9534	0.9591	0.9979	1.017	1.046	0.9207	0.9822			0.99	4.2	TM			0.500
26																		
27																		
28																		
29																		
30																		
31																		
32																		
33																		
34																		
35																		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L003.D Vial: 3
Acq On : 16 Oct 20 10:37 Operator: MA
Sample : 0.1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	44084	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	24595	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	48782	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.12	240	67228	2.50000 ppb		-0.01
20) Perylene-D12(IS)	13.56	264	75125	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	1037	0.05495 ppb		0.00
Spiked Amount 5.000			Recovery =	1.100%		
13) Fluoranthene-D10 (FRT)	9.38	212	1293	0.05685 ppb		0.00
Spiked Amount 5.000			Recovery =	1.140%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	1890	0.11284 ppb		99
4) 2-Methylnaphthalene	5.08	142	1259	0.11717 ppb		99
5) 1-Methylnaphthalene	5.19	142	1244	0.11294 ppb		100
7) Acenaphthylene	6.11	152	3955	0.11795 ppb		99
8) Acenaphthene	6.31	154	1235	0.11635 ppb		99
9) Fluorene	6.90	166	1402	0.11107 ppb		99
11) Phenanthrene	8.02	178	2158	0.11070 ppb		99
12) Anthracene	8.08	178	1960	0.11301 ppb		99
14) Fluoranthene	9.40	202	2902	0.11366 ppb		98
16) Pyrene	9.65	202	2993	0.11038 ppb	#	82
17) Benz (a) anthracene	11.11	228	3017	0.11408 ppb		100
18) Chrysene	11.16	228	3131	0.11082 ppb		98
19) Indeno (1,2,3-cd) pyrene	15.03	276	3448	0.10423 ppb	#	93
21) Benzo (b) fluoranthene	12.92	252	3001	0.11051 ppb	#	98
22) Benzo (k) fluoranthene	12.98	252	3253	0.09995 ppb		98
23) Benzo (a) pyrene	13.46	252	2588	0.10136 ppb		98
24) Dibenz (a,h) anthracene	15.07	278	2776	0.09615 ppb	#	96
25) Benzo (g,h,i) perylene	15.40	276	3061	0.10254 ppb		98

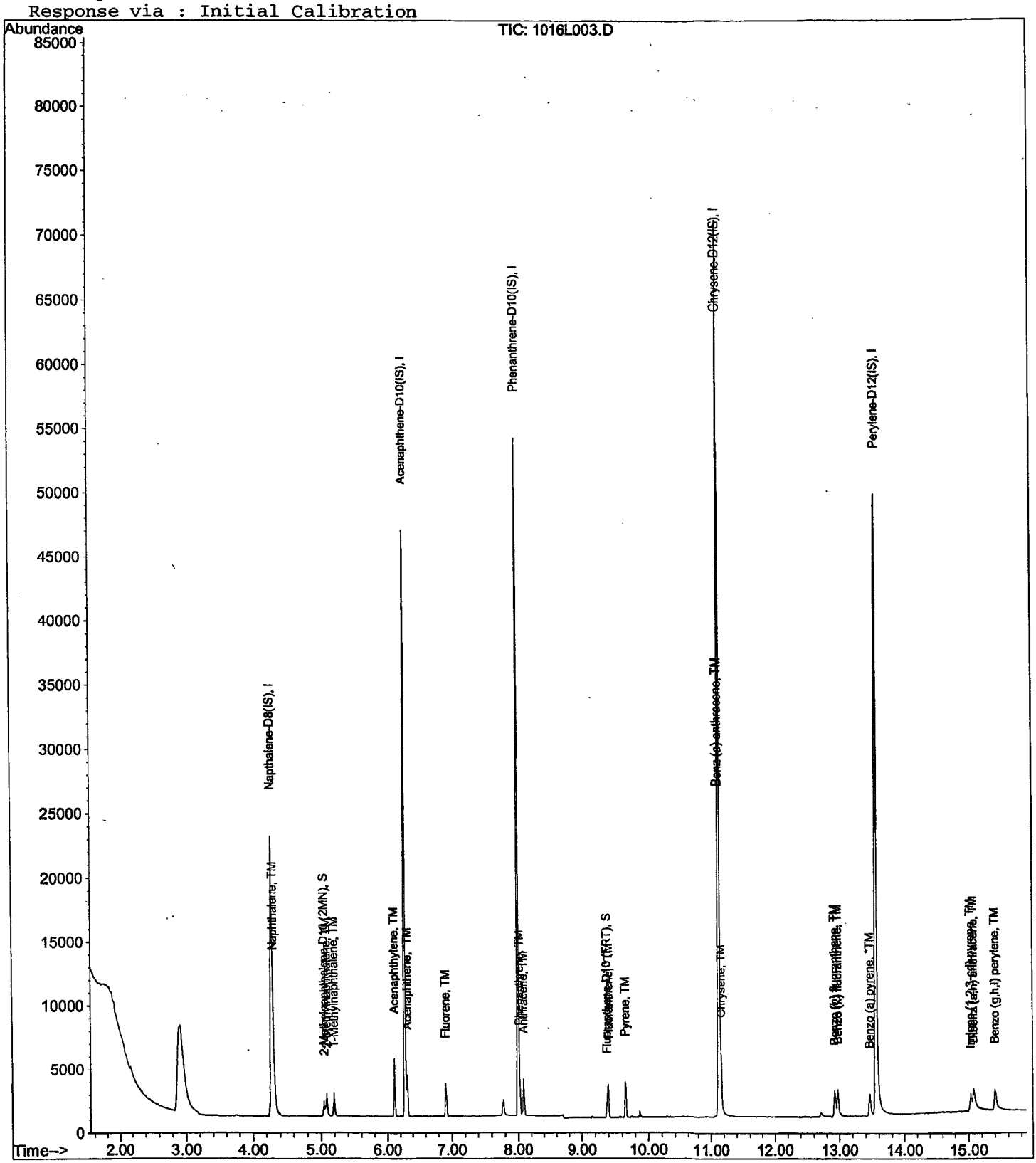
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L003.D Vial: 3
Acq On : 16 Oct 20 10:37 Operator: MA
Sample : 0.1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L004.D Vial: 4
Acq On : 16 Oct 20 10:59 Operator: MA
Sample : 0.2 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	58321	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	32526	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	62347	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.12	240	83952	2.50000 ppb		-0.01
20) Perylene-D12(IS)	13.56	264	93534	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	2566	0.10278 ppb		0.00
Spiked Amount 5.000			Recovery = 2.060%			
13) Fluoranthene-D10 (FRT)	9.38	212	2923	0.10055 ppb		0.00
Spiked Amount 5.000			Recovery = 2.020%			
Target Compounds						Qvalue
2) Naphthalene	4.30	128	4715	0.21277 ppb		99
4) 2-Methylnaphthalene	5.08	142	3111	0.21884 ppb		99
5) 1-Methylnaphthalene	5.19	142	3158	0.21671 ppb		100
7) Acenaphthylene	6.11	152	9622	0.21698 ppb		100
8) Acenaphthene	6.31	154	3066	0.21841 ppb		99
9) Fluorene	6.90	166	3451	0.20674 ppb		96
11) Phenanthrene	8.01	178	5348	0.21466 ppb		100
12) Anthracene	8.08	178	4875	0.21993 ppb		99
14) Fluoranthene	9.40	202	7047	0.21596 ppb		98
16) Pyrene	9.66	202	7210	0.21292 ppb		99
17) Benz (a) anthracene	11.11	228	7107	0.21520 ppb		99
18) Chrysene	11.16	228	7480	0.21202 ppb		99
19) Indeno (1,2,3-cd) pyrene	15.03	276	8042	0.19468 ppb	#	90
21) Benzo (b) fluoranthene	12.92	252	7057	0.20872 ppb		99
22) Benzo (k) fluoranthene	12.98	252	7525	0.18570 ppb		98
23) Benzo (a) pyrene	13.46	252	5905	0.18575 ppb		98
24) Dibenz (a,h) anthracene	15.07	278	6715	0.18680 ppb	#	97
25) Benzo (g,h,i) perylene	15.40	276	7134	0.19194 ppb		96

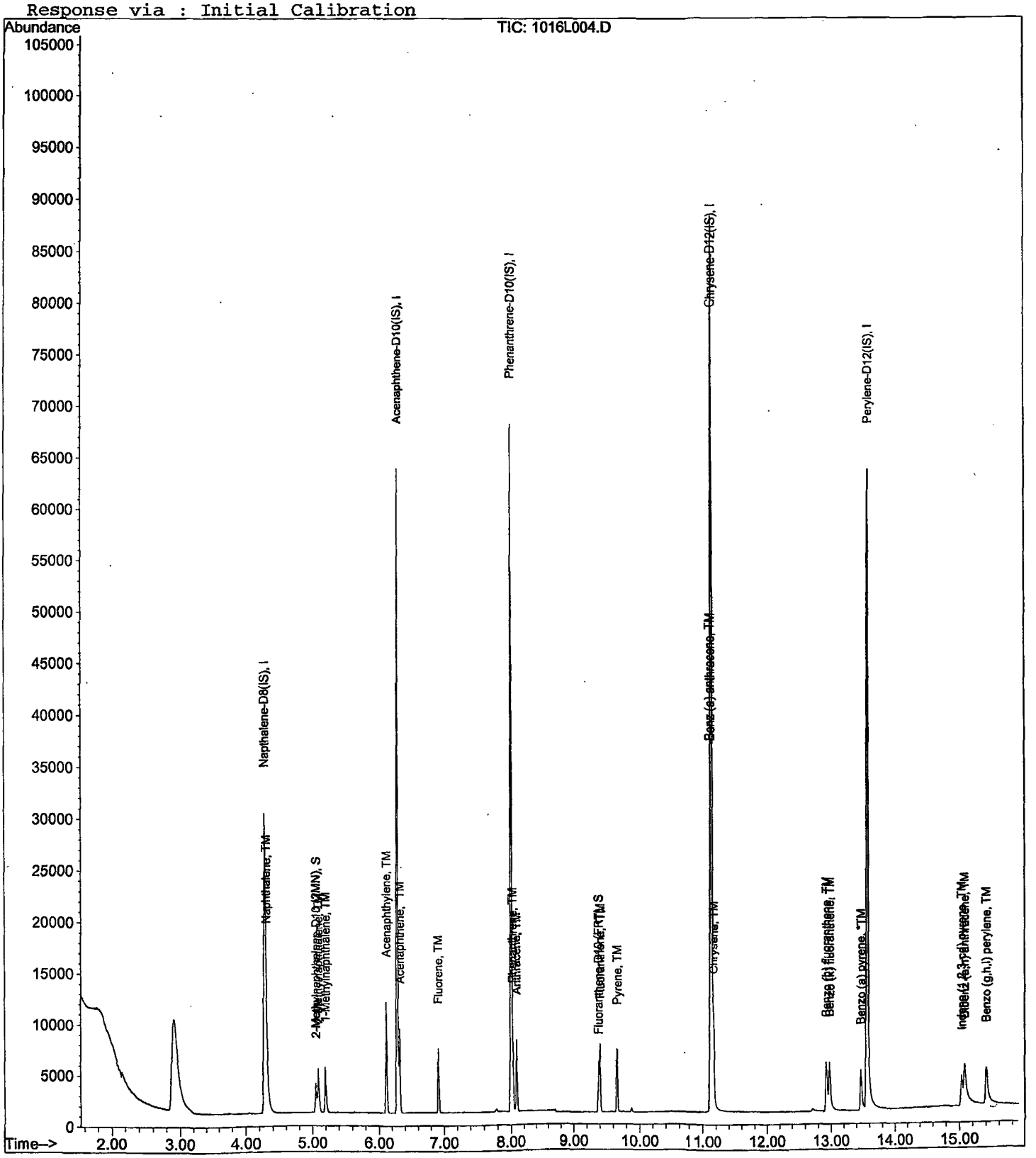
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L004.D Vial: 4
Acq On : 16 Oct 20 10:59 Operator: MA
Sample : 0.2 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L005.D Vial: 5
Acq On : 16 Oct 20 11:21 Operator: MA
Sample : 0.5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	44248	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	24849	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	46124	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.12	240	63984	2.50000	ppb		-0.01
20) Perylene-D12(IS)	13.55	264	70650	2.50000	ppb		-0.01
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	4681	0.24712	ppb		0.00
Spiked Amount 5.000			Recovery	= 4.940%			
13) Fluoranthene-D10 (FRT)	9.38	212	5535	0.25737	ppb		0.00
Spiked Amount 5.000			Recovery	= 5.140%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	8563	0.50933	ppb		99
4) 2-Methylnaphthalene	5.08	142	5796	0.53739	ppb		100
5) 1-Methylnaphthalene	5.19	142	5701	0.51565	ppb		98
7) Acenaphthylene	6.11	152	17937	0.52946	ppb		100
8) Acenaphthene	6.31	154	5316	0.49569	ppb		100
9) Fluorene	6.90	166	6766	0.53055	ppb		96
11) Phenanthrene	8.01	178	9757	0.52937	ppb		99
12) Anthracene	8.08	178	8723	0.53195	ppb		99
14) Fluoranthene	9.40	202	13338	0.55251	ppb		98
16) Pyrene	9.65	202	13623	0.52786	ppb	#	82
17) Benz (a) anthracene	11.11	228	13025	0.51748	ppb		99
18) Chrysene	11.15	228	14146	0.52610	ppb	#	95
19) Indeno (1,2,3-cd) pyrene	15.03	276	15224	0.48356	ppb		92
21) Benzo (b) fluoranthene	12.92	252	11733	0.45943	ppb		98
22) Benzo (k) fluoranthene	12.98	252	15599	0.50963	ppb		98
23) Benzo (a) pyrene	13.46	252	11347	0.47256	ppb		99
24) Dibenz (a,h) anthracene	15.07	278	12845	0.47308	ppb	#	97
25) Benzo (g,h,i) perylene	15.40	276	13552	0.48272	ppb		98

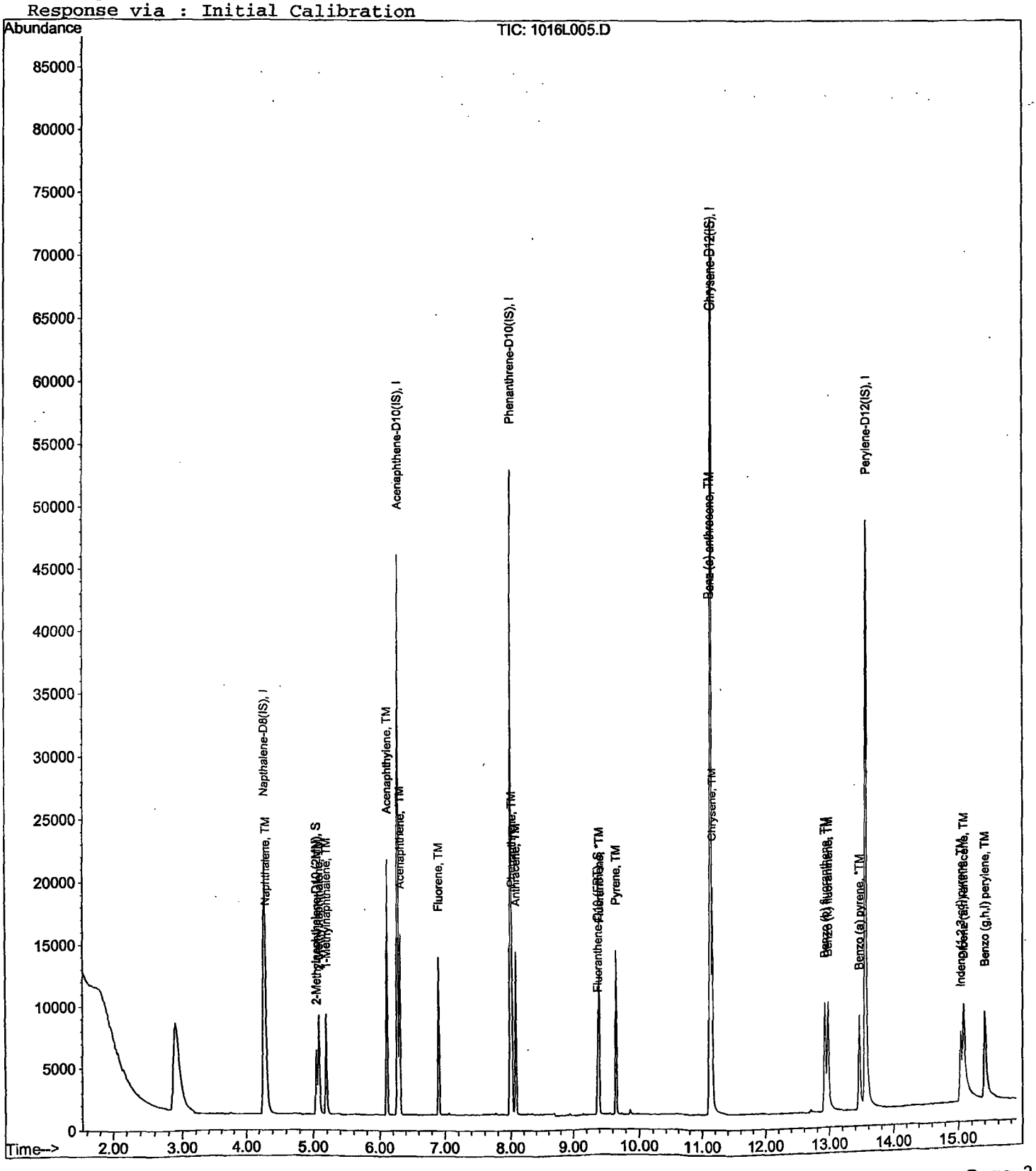
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L005.D Vial: 5
Acq On : 16 Oct 20 11:21 Operator: MA
Sample : 0.5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L006.D Vial: 6
Acq On : 16 Oct 20 11:43 Operator: MA
Sample : 1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	49012	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	26755	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	54274	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.12	240	71691	2.50000 ppb		-0.01
20) Perylene-D12(IS)	13.55	264	78644	2.50000 ppb		-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	10597	0.50507 ppb		0.00
Spiked Amount 5.000			Recovery = 10.100%			
13) Fluoranthene-D10 (FRT)	9.38	212	13081	0.51692 ppb		0.00
Spiked Amount 5.000			Recovery = 10.340%			
Target Compounds						Qvalue
2) Naphthalene	4.30	128	20041	1.07617 ppb		100
4) 2-Methylnaphthalene	5.08	142	13203	1.10516 ppb		99
5) 1-Methylnaphthalene	5.19	142	13067	1.06701 ppb		100
7) Acenaphthylene	6.11	152	41197	1.12942 ppb		100
8) Acenaphthene	6.31	154	12084	1.04651 ppb		98
9) Fluorene	6.90	166	14961	1.08959 ppb		95
11) Phenanthrene	8.01	178	23742	1.09469 ppb		100
12) Anthracene	8.08	178	21433	1.11077 ppb		99
14) Fluoranthene	9.40	202	32091	1.12971 ppb		98
16) Pyrene	9.65	202	31599	1.09276 ppb	#	84
17) Benz (a) anthracene	11.11	228	29434	1.04369 ppb		99
18) Chrysene	11.15	228	31530	1.04656 ppb	#	96
19) Indeno (1,2,3-cd) pyrene	15.03	276	35770	1.01403 ppb	#	93
21) Benzo (b) fluoranthene	12.92	252	27848	0.97960 ppb		98
22) Benzo (k) fluoranthene	12.98	252	36719	1.07769 ppb		98
23) Benzo (a) pyrene	13.46	252	28808	1.07779 ppb		98
24) Dibenz (a,h) anthracene	15.07	278	30010	0.99291 ppb	#	96
25) Benzo (g,h,i) perylene	15.40	276	31391	1.00449 ppb		98

(#) = qualifier out of range (m) = manual integration

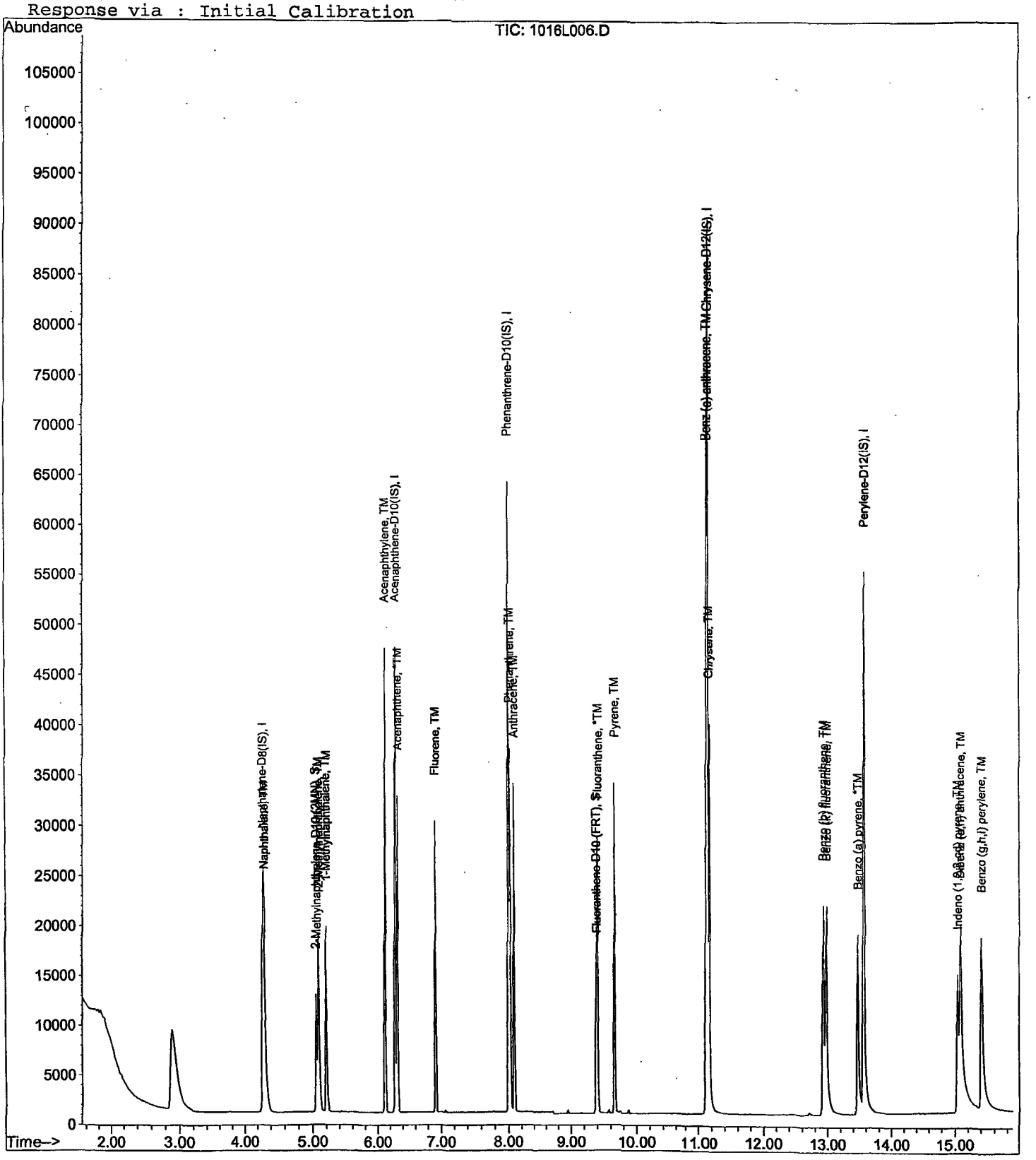
Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L006.D
Acq On : 16 Oct 20 11:43
Sample : 1 SIM 08/21/20
Misc :

Vial: 6
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L007.D Vial: 7
Acq On : 16 Oct 20 12:05 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	49866	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	26363	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	52853	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	72201	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	77115	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	58812	2.75507 ppb		0.00
Spiked Amount 5.000			Recovery	= 55.100%		
13) Fluoranthene-D10 (FRT)	9.38	212	63208	2.56494 ppb		0.00
Spiked Amount 5.000			Recovery	= 51.300%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	91420	4.82503 ppb		100
4) 2-Methylnaphthalene	5.08	142	66664	5.48457 ppb		100
5) 1-Methylnaphthalene	5.19	142	62616	5.02547 ppb		100
7) Acenaphthylene	6.11	152	203147	5.65209 ppb		100
8) Acenaphthene	6.31	154	57006	5.01028 ppb		100
9) Fluorene	6.90	166	71772	5.30476 ppb		100
11) Phenanthrene	8.01	178	107223	5.07675 ppb		100
12) Anthracene	8.08	178	102004	5.42852 ppb		100
14) Fluoranthene	9.40	202	151517	5.47730 ppb		100
16) Pyrene	9.66	202	152720	5.24406 ppb		100
17) Benz (a) anthracene	11.11	228	149635	5.26839 ppb		100
18) Chrysene	11.16	228	146496	4.82821 ppb		100
19) Indeno (1,2,3-cd) pyrene	15.04	276	182195	5.12848 ppb	#	100
21) Benzo (b) fluoranthene	12.93	252	152793	5.48134 ppb		100
22) Benzo (k) fluoranthene	12.98	252	175807	5.26218 ppb		100
23) Benzo (a) pyrene	13.46	252	148467	5.66469 ppb		100
24) Dibenz (a,h) anthracene	15.08	278	154350	5.20809 ppb		100
25) Benzo (g,h,i) perylene	15.41	276	156806	5.11716 ppb		100

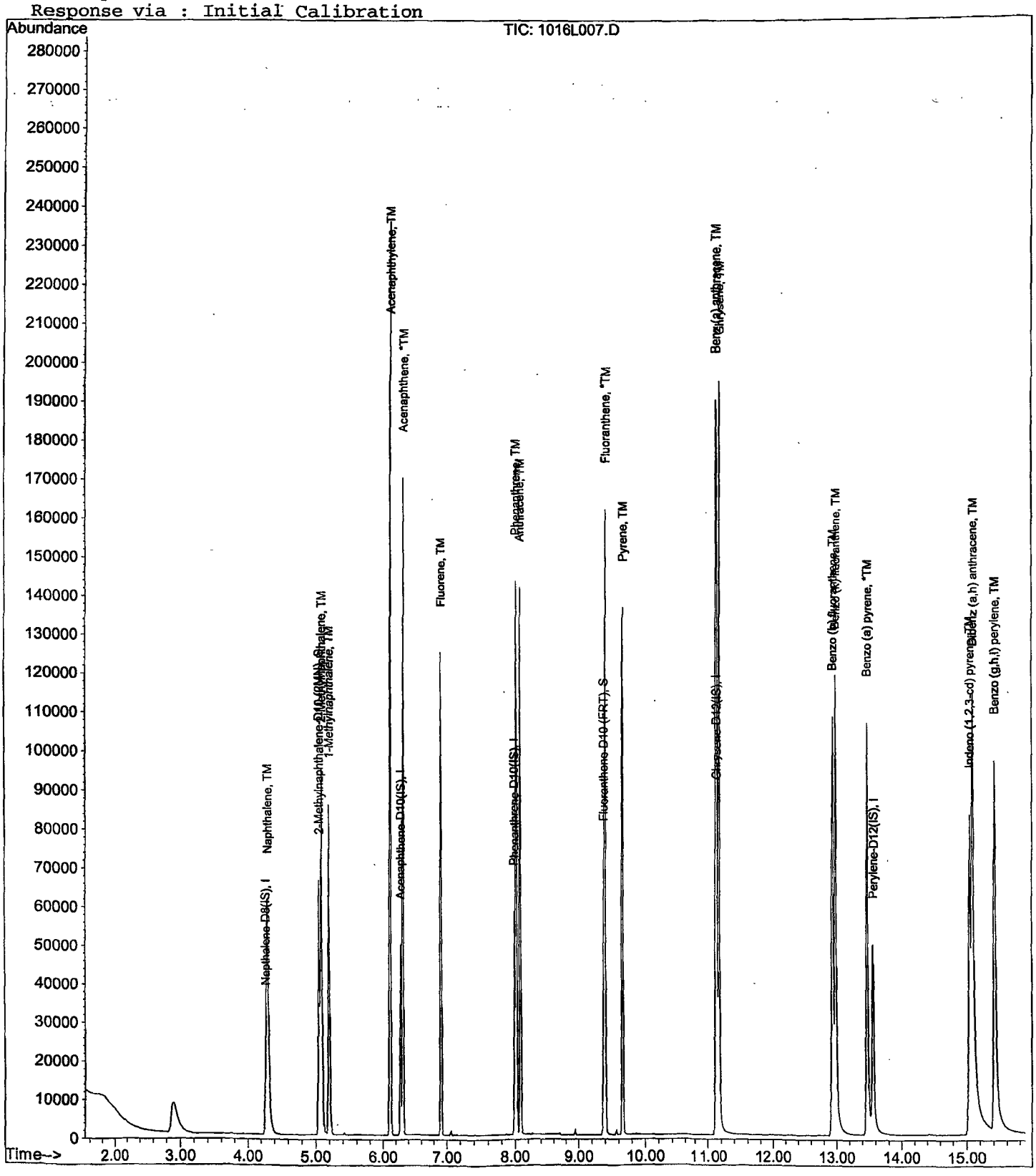
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L007.D Vial: 7
Acq On : 16 Oct 20 12:05 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L008.D Vial: 8
Acq On : 16 Oct 20 12:27 Operator: MA
Sample : 10 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	46239	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	24174	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	47454	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	66927	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	68921	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	101736	5.13969 ppb		0.00
Spiked Amount 5.000			Recovery	= 102.800%		
13) Fluoranthene-D10 (FRT)	9.38	212	121907	5.50973 ppb		0.00
Spiked Amount 5.000			Recovery	= 110.200%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	169029	9.62090 ppb		100
4) 2-Methylnaphthalene	5.08	142	116429	10.33020 ppb		100
5) 1-Methylnaphthalene	5.19	142	113925	9.86066 ppb		100
7) Acenaphthylene	6.11	152	349784	10.61317 ppb		100
8) Acenaphthene	6.31	154	103108	9.88280 ppb		100
9) Fluorene	6.90	166	133281	10.74300 ppb		96
11) Phenanthrene	8.03	178	203962	10.75583 ppb		97
12) Anthracene	8.09	178	185489	10.99459 ppb		96
14) Fluoranthene	9.40	202	277003	11.15286 ppb		95
16) Pyrene	9.66	202	280854	10.40385 ppb		95
17) Benz (a) anthracene	11.12	228	272999	10.36925 ppb		97
18) Chrysene	11.16	228	274840	9.77196 ppb	#	97
19) Indeno (1,2,3-cd) pyrene	15.05	276	338064	10.26581 ppb	#	97
21) Benzo (b) fluoranthene	12.93	252	301266	12.09264 ppb	#	98
22) Benzo (k) fluoranthene	12.99	252	309244	10.35662 ppb		98
23) Benzo (a) pyrene	13.48	252	262761	11.21745 ppb		98
24) Dibenz (a,h) anthracene	15.10	278	284747	10.75025 ppb		99
25) Benzo (g,h,i) perylene	15.42	276	288237	10.52455 ppb		99

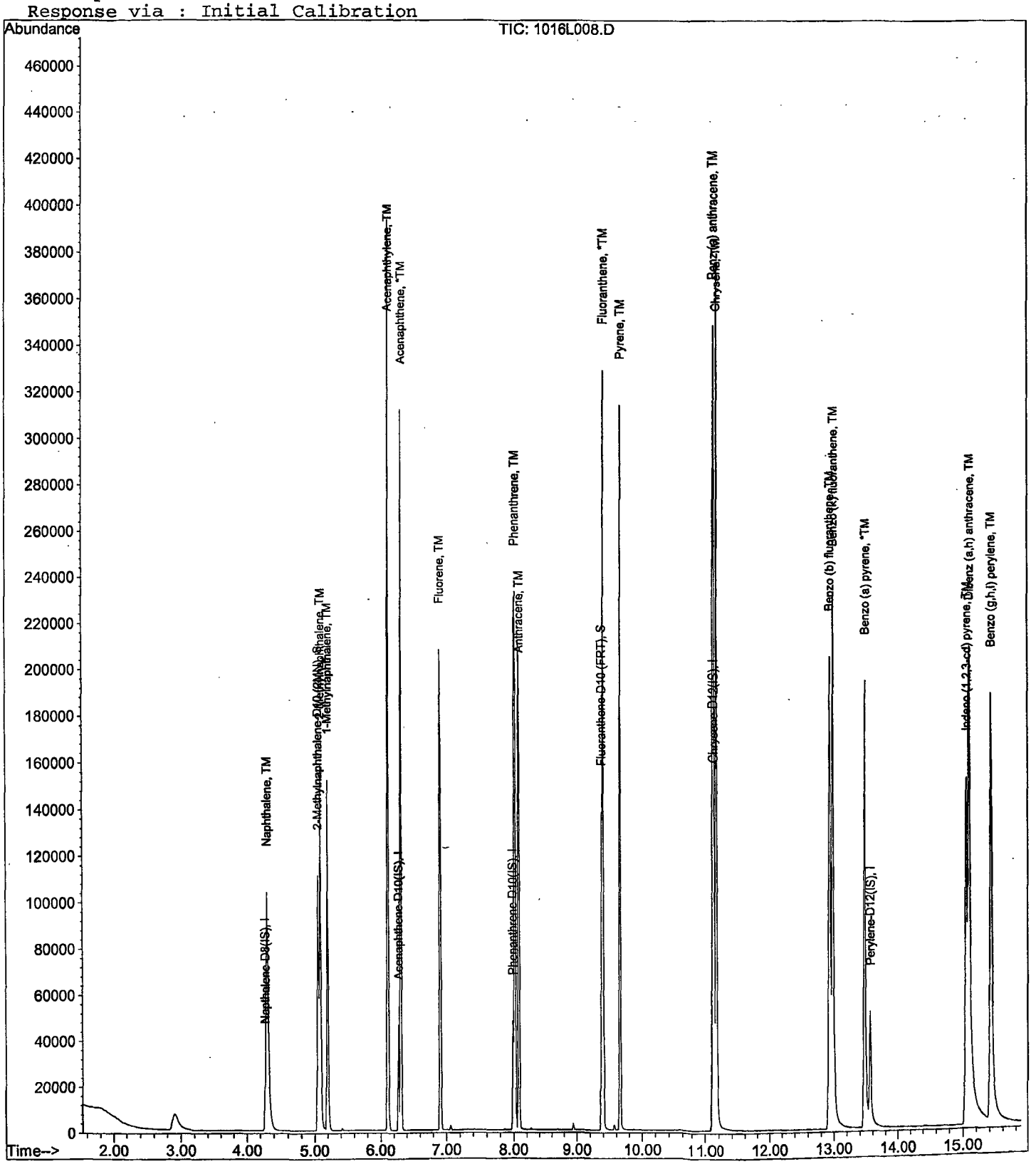
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L008.D Vial: 8
Acq On : 16 Oct 20 12:27 Operator: MA
Sample : 10 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L009.D Vial: 9
Acq On : 16 Oct 20 12:50 Operator: MA
Sample : 50 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:48 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:47:50 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	40530	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	20899	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	8.00	188	41652	2.50000	ppb		0.01
15) Chrysene-D12(IS)	11.14	240	56403	2.50000	ppb		0.01
20) Perylene-D12(IS)	13.57	264	65963	2.50000	ppb		0.01
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	447024	25.76472	ppb		0.00
Spiked Amount 5.000			Recovery = 515.300%				
13) Fluoranthene-D10 (FRT)	9.39	212	528902	27.23414	ppb		0.01
Spiked Amount 5.000			Recovery = 544.680%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	744322	48.33340	ppb		99
4) 2-Methylnaphthalene	5.08	142	491506	49.75173	ppb		99
5) 1-Methylnaphthalene	5.20	142	492889	48.67075	ppb		94
7) Acenaphthylene	6.12	152	1543648	54.17718	ppb		98
8) Acenaphthene	6.31	154	445953	49.44242	ppb		95
9) Fluorene	6.92	166	568152	52.97182	ppb		90
11) Phenanthrene	8.03	178	745533	44.79178	ppb		98
12) Anthracene	8.09	178	695926	46.99599	ppb		98
14) Fluoranthene	9.41	202	1006088	46.15032	ppb	#	92
16) Pyrene	9.67	202	1055879	46.41163	ppb	#	93
17) Benz (a) anthracene	11.13	228	1127240	50.80447	ppb		98
18) Chrysene	11.18	228	1050714	44.32875	ppb		98
19) Indeno (1,2,3-cd) pyrene	15.07	276	1423510	51.29252	ppb	#	89
21) Benzo (b) fluoranthene	12.97	252	1356281	56.88160	ppb	#	97
22) Benzo (k) fluoranthene	13.02	252	1299182	45.46088	ppb		98
23) Benzo (a) pyrene	13.50	252	1216664	54.26940	ppb		98
24) Dibenz (a,h) anthracene	15.13	278	1203467	47.47280	ppb		96
25) Benzo (g,h,i) perylene	15.47	276	1214669	46.34075	ppb		96

(#) = qualifier out of range (m) = manual integration

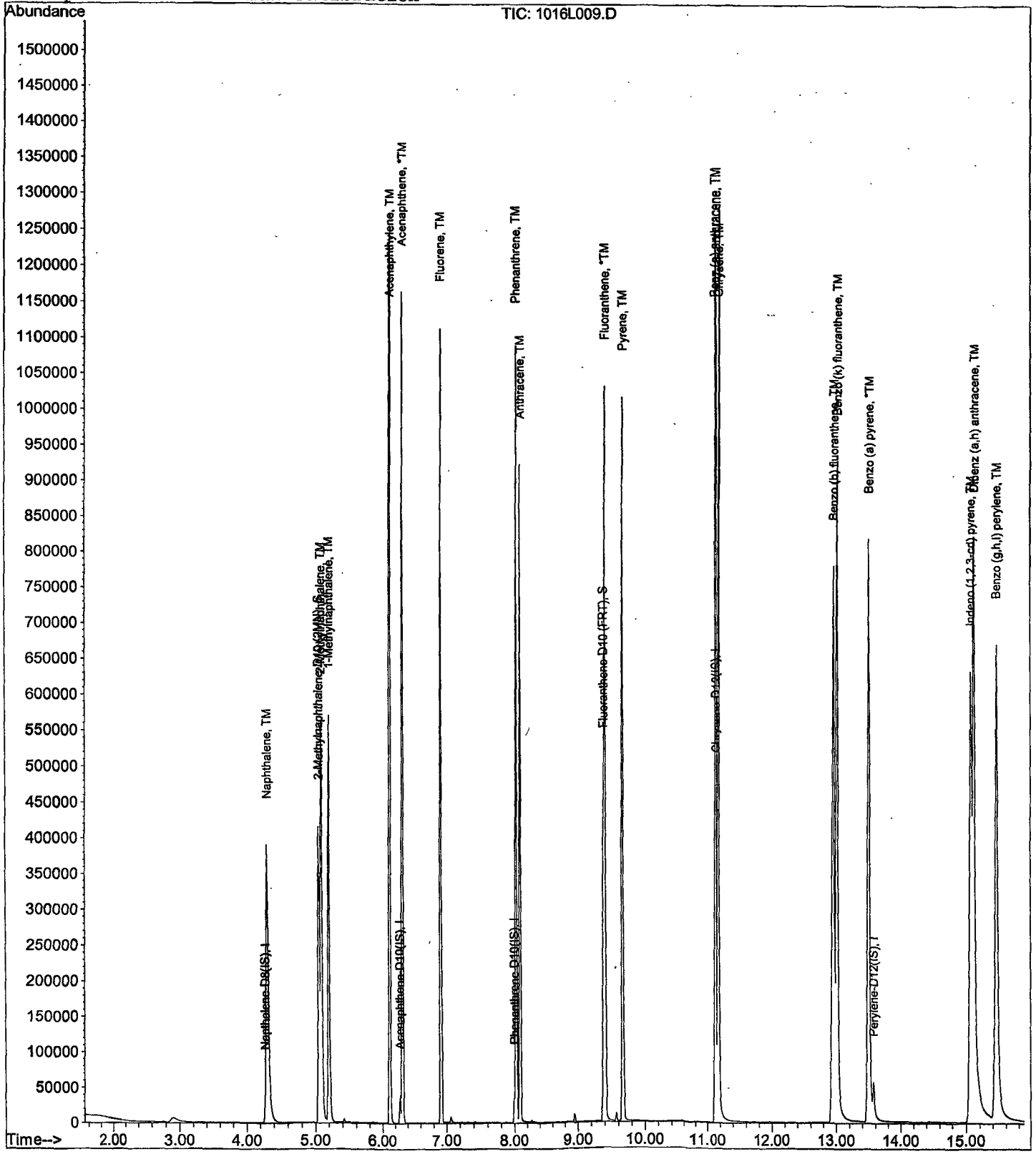
Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L009.D
Acq On : 16 Oct 20 12:50
Sample : 50 SIM 08/21/20
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 16 13:48 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L010.D Vial: 10
Acq On : 16 Oct 20 13:12 Operator: MA
Sample : 100 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:47 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:47:50 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	39931	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	22446	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	8.00	188	44342	2.50000	ppb		0.01
15) Chrysene-D12(IS)	11.15	240	55121	2.50000	ppb		0.02
20) Perylene-D12(IS)	13.58	264	58243	2.50000	ppb		0.02
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	890571	52.09901	ppb		0.00
Spiked Amount 5.000			Recovery	= 1041.980%			
13) Fluoranthene-D10 (FRT)	9.39	212	1112969	53.83220	ppb		0.01
Spiked Amount 5.000			Recovery	= 1076.640%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	1372540	90.46444	ppb		98
4) 2-Methylnaphthalene	5.09	142	938117	96.38352	ppb		96
5) 1-Methylnaphthalene	5.20	142	918368	92.04539	ppb		95
7) Acenaphthylene	6.12	152	2774435	90.66282	ppb		99
8) Acenaphthene	6.33	154	802774	82.86868	ppb		97
9) Fluorene	6.93	166	1111179	96.46082	ppb		85
11) Phenanthrene	8.04	178	1468903	82.89821	ppb		97
12) Anthracene	8.10	178	1342303	85.14692	ppb		96
14) Fluoranthene	9.42	202	1974317	85.06995	ppb	#	90
16) Pyrene	9.68	202	2096374	94.29019	ppb	#	94
17) Benz (a) anthracene	11.14	228	2070440	95.48460	ppb		97
18) Chrysene	11.19	228	1983840	85.64316	ppb	#	95
19) Indeno (1,2,3-cd) pyrene	15.11	276	2762426	101.85194	ppb	#	87
21) Benzo (b) fluoranthene	12.98	252	2138419	101.57143	ppb		100
22) Benzo (k) fluoranthene	13.04	252	2211086	87.62543	ppb		100
23) Benzo (a) pyrene	13.52	252	2045239	103.32017	ppb		98
24) Dibenz (a,h) anthracene	15.15	278	2331210	104.14746	ppb	#	95
25) Benzo (g,h,i) perylene	15.50	276	2288345	98.87428	ppb		97

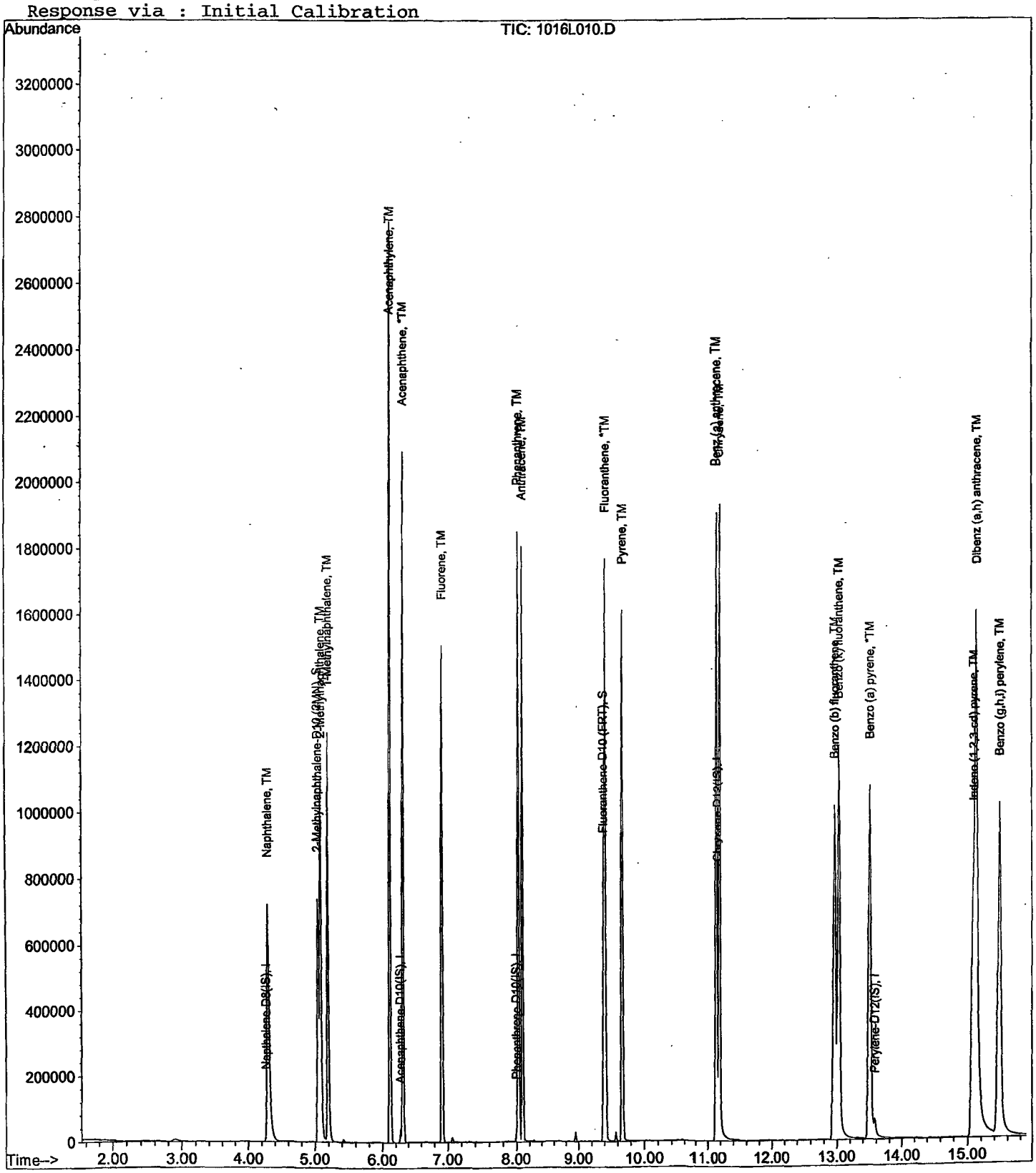
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L010.D Vial: 10
Acq On : 16 Oct 20 13:12 Operator: MA
Sample : 100 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:47 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/16/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L011.D

		Compound	MEAN	CCRF	%D		%Drift
1	TM	Naphthalene	0.9600	0.9132	4.9	TM	
2	TM	2-Methylnaphthalene	0.6501	0.6497	0.06	TM	
3	TM	1-Methylnaphthalene	0.6400	0.6197	3.2	TM	
4	TM	Acenaphthylene	3.679	3.702	0.64	TM	
5	*TM	Acenaphthene	1.093	1.076	1.5	*TM	
6	TM	Fluorene	1.356	1.354	0.13	TM	
7	TM	Phenanthrene	1.018	1.058	3.9	TM	
8	TM	Anthracene	0.9311	1.069	15	TM	
9	*TM	Fluoranthene	1.380	1.519	10	*TM	
10	TM	Pyrene	1.043	1.078	3.3	TM	
11	TM	Benz (a) anthracene	1.027	1.030	0.22	TM	
12	TM	Chrysene	1.044	1.015	2.8	TM	
13	TM	Indeno (1,2,3-cd) pyrene	1.244	1.350	8.5	TM	
14	TM	Benzo (b) fluoranthene	0.9609	0.9298	3.2	TM	
15	TM	Benzo (k) fluoranthene	1.069	1.178	10	TM	
16	*TM	Benzo (a) pyrene	0.8856	0.9841	11	*TM	
17	TM	Dibenz (a,h) anthracene	0.9538	1.040	9.1	TM	
18	TM	Benzo (g,h,i) perylene	0.9868	1.050	6.4	TM	
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			5.2		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L011.D Vial: 11
Acq On : 16 Oct 20 13:34 Operator: MA
Sample : SS SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:53 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	59322	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	30386	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	62233	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	91312	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	98148	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	0.00	152	0d	0.00000	ppb		
Spiked Amount 5.000			Recovery	=	0.000%		
13) Fluoranthene-D10 (FRT)	0.00	212	0d	0.00000	ppb		
Spiked Amount 5.000			Recovery	=	0.000%		
Target Compounds							Qvalue
2) Naphthalene	4.30	128	108342	4.75587	ppb		99
4) 2-Methylnaphthalene	5.08	142	77085	4.99708	ppb		99
5) 1-Methylnaphthalene	5.19	142	73520	4.84127	ppb		98
7) Acenaphthylene	6.11	152	225002	5.03212	ppb		99
8) Acenaphthene	6.31	154	65388	4.92375	ppb		96
9) Fluorene	6.92	166	82291	4.99334	ppb		87
11) Phenanthrene	8.03	178	131665	5.19729	ppb		98
12) Anthracene	8.09	178	133038	5.73959	ppb		97
14) Fluoranthene	9.40	202	189096	5.50570	ppb		95
16) Pyrene	9.66	202	196781	5.16391	ppb		95
17) Benz (a) anthracene	11.12	228	188027	5.01094	ppb		98
18) Chrysene	11.16	228	185421	4.86068	ppb	#	98
19) Indeno (1,2,3-cd) pyrene	15.04	276	246499	5.42292	ppb	#	89
21) Benzo (b) fluoranthene	12.93	252	182515	4.83839	ppb		98
22) Benzo (k) fluoranthene	12.99	252	231163	5.50621	ppb		98
23) Benzo (a) pyrene	13.48	252	193170	5.55576	ppb		98
24) Dibenz (a,h) anthracene	15.10	278	204218	5.45350	ppb		99
25) Benzo (g,h,i) perylene	15.42	276	206170	5.32189	ppb		97

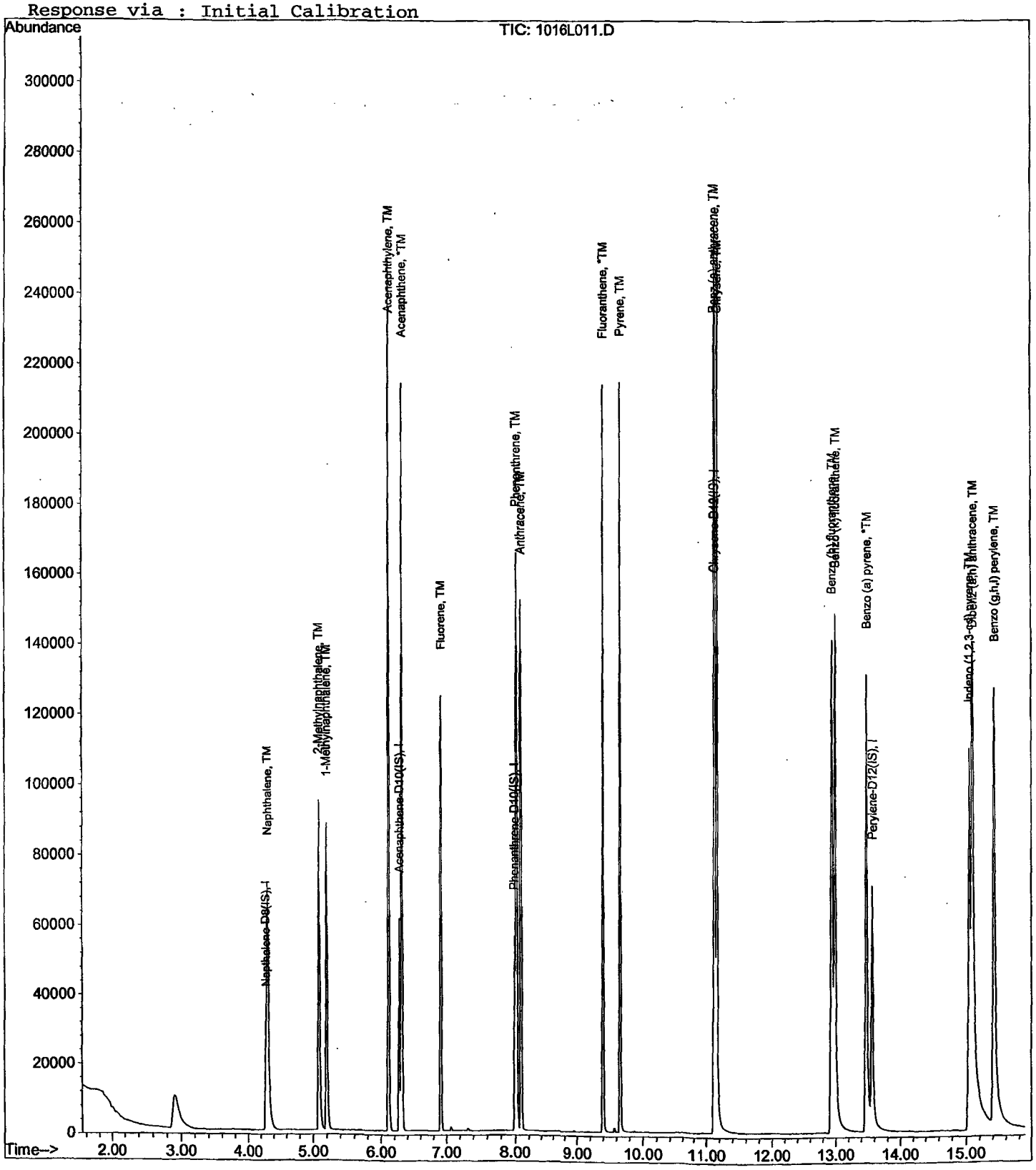
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L011.D Vial: 11
Acq On : 16 Oct 20 13:34 Operator: MA
Sample : SS SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:53 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/19/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L046.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	0.9600	0.8672	9.7	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.114	1.162	4.3	S	
4	TM	2-Methylnaphthalene	0.6501	0.6335	2.6	TM	
5	TM	1-Methylnaphthalene	0.6400	0.6145	4.0	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	3.679	3.540	3.8	TM	
8	*TM	Acenaphthene	1.093	0.9593	12	*TM	
9	TM	Fluorene	1.356	1.297	4.3	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.018	0.9838	3.3	TM	
12	TM	Anthracene	0.9311	0.9444	1.4	TM	
13	S	Fluoranthene-D10 (FRT)	1.238	1.283	3.6	S	
14	*TM	Fluoranthene	1.380	1.505	9.0	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.043	1.052	0.84	TM	
17	TM	Benz (a) anthracene	1.027	1.000	2.6	TM	
18	TM	Chrysene	1.044	1.021	2.3	TM	
19	TM	Indeno (1,2,3-cd) pyrene	1.244	1.252	0.64	TM	
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	0.9609	0.9159	4.7	TM	
22	TM	Benzo (k) fluoranthene	1.069	1.168	9.2	TM	
23	*TM	Benzo (a) pyrene	0.8856	0.9027	1.9	*TM	
24	TM	Dibenz (a,h) anthracene	0.9538	0.9874	3.5	TM	
25	TM	Benzo (g,h,i) perylene	0.9868	1.013	2.7	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.3		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L046.D Vial: 46
Acq On : 19 Oct 20 10:01 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 19 10:26 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	49980	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	28295	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	52020	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	73865	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	79263	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	58091	2.60816	ppb		0.00
Spiked Amount 5.000			Recovery = 52.160%				
13) Fluoranthene-D10 (FRT)	9.38	212	66747	2.59012	ppb		0.00
Spiked Amount 5.000			Recovery = 51.800%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	86685	4.51644	ppb		100
4) 2-Methylnaphthalene	5.08	142	63323	4.87222	ppb		97
5) 1-Methylnaphthalene	5.19	142	61426	4.80093	ppb		97
7) Acenaphthylene	6.11	152	200352	4.81197	ppb		100
8) Acenaphthene	6.31	154	54287	4.38993	ppb		97
9) Fluorene	6.90	166	73395	4.78266	ppb		97
11) Phenanthrene	8.01	178	102359	4.83373	ppb		99
12) Anthracene	8.08	178	98254	5.07114	ppb		100
14) Fluoranthene	9.40	202	156531	5.45231	ppb		99
16) Pyrene	9.66	202	155430	5.04219	ppb		99
17) Benz (a) anthracene	11.11	228	147804	4.86939	ppb		99
18) Chrysene	11.16	228	150807	4.88707	ppb		99
19) Indeno (1,2,3-cd) pyrene	15.04	276	185020	5.03183	ppb	#	94
21) Benzo (b) fluoranthene	12.93	252	145191	4.76598	ppb		99
22) Benzo (k) fluoranthene	12.99	252	185154	5.46108	ppb	#	97
23) Benzo (a) pyrene	13.48	252	143097	5.09619	ppb		97
24) Dibenz (a,h) anthracene	15.08	278	156536	5.17614	ppb		98
25) Benzo (g,h,i) perylene	15.42	276	160601	5.13333	ppb		97

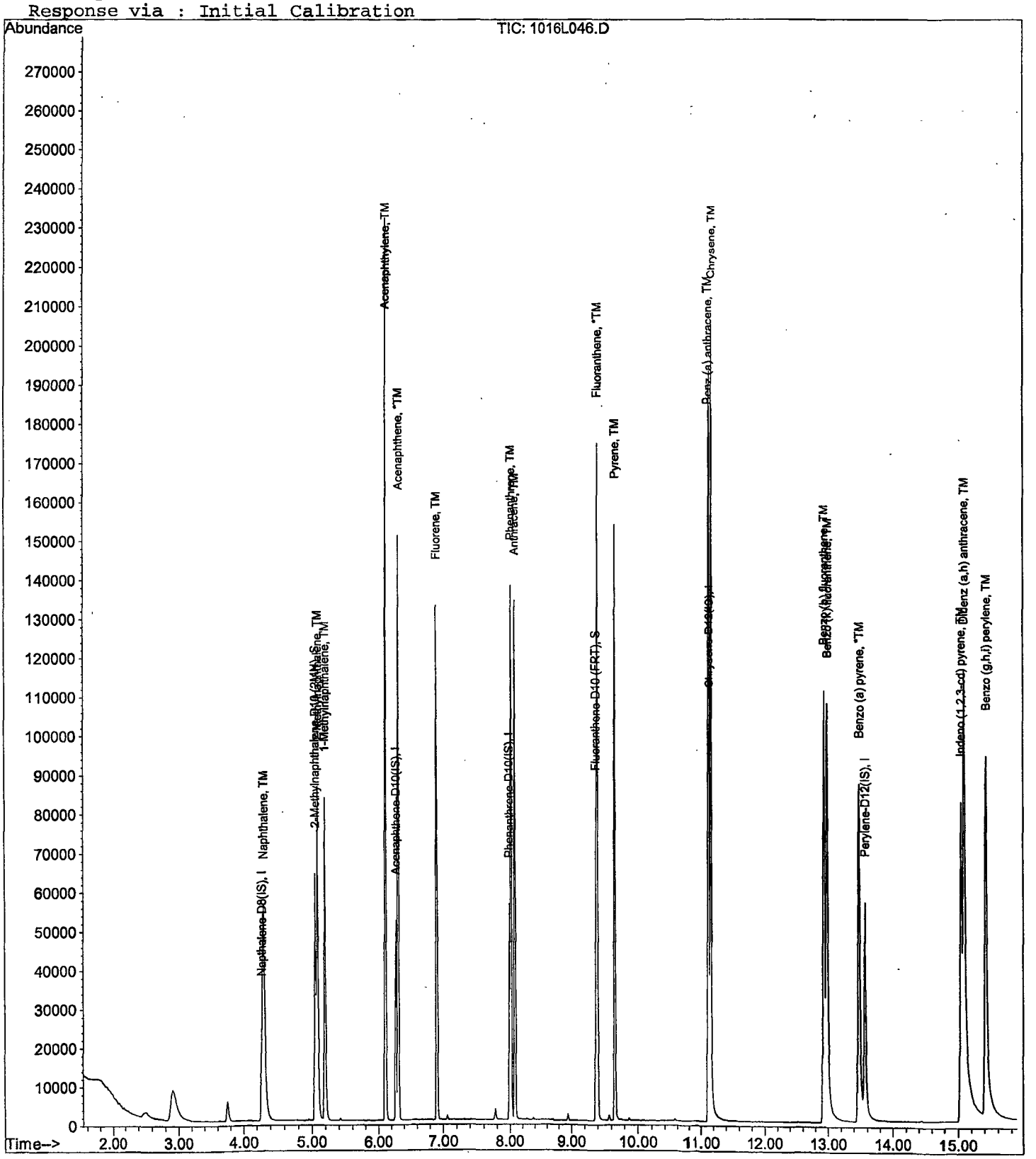
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L046.D Vial: 46
Acq On : 19 Oct 20 10:01 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 19 10:26 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/19/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L077.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	0.9600	1.039	8.3	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.114	1.188	6.6	S	
4	TM	2-Methylnaphthalene	0.6501	0.7091	9.1	TM	
5	TM	1-Methylnaphthalene	0.6400	0.6961	8.8	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	3.679	4.411	20	TM	
8	*TM	Acenaphthene	1.093	1.186	8.6	*TM	
9	TM	Fluorene	1.356	1.583	17	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.018	1.115	9.6	TM	
12	TM	Anthracene	0.9311	1.011	8.6	TM	
13	S	Fluoranthene-D10 (FRT)	1.238	1.335	7.8	S	
14	*TM	Fluoranthene	1.380	1.585	15	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.043	1.179	13	TM	
17	TM	Benz (a) anthracene	1.027	1.142	11	TM	
18	TM	Chrysene	1.044	1.139	9.0	TM	
19	TM	Indeno (1,2,3-cd) pyrene	1.244	1.396	12	TM	
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	0.9609	0.9653	0.47	TM	
22	TM	Benzo (k) fluoranthene	1.069	1.218	14	TM	
23	*TM	Benzo (a) pyrene	0.8856	0.9762	10	*TM	
24	TM	Dibenz (a,h) anthracene	0.9538	1.034	8.4	TM	
25	TM	Benzo (g,h,i) perylene	0.9868	1.046	6.0	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			10.2		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L077.D Vial: 77
Acq On : 19 Oct 20 21:37 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 20 9:11 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	45670	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	23341	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	49755	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	68076	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	78274	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	54256	2.66587 ppb		0.00
Spiked Amount 5.000			Recovery	= 53.320%		
13) Fluoranthene-D10 (FRT)	9.38	212	66425	2.69497 ppb		0.00
Spiked Amount 5.000			Recovery	= 53.900%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	94935	5.41308 ppb		99
4) 2-Methylnaphthalene	5.08	142	64767	5.45362 ppb		94
5) 1-Methylnaphthalene	5.19	142	63584	5.43859 ppb		98
7) Acenaphthylene	6.11	152	205916	5.99528 ppb		99
8) Acenaphthene	6.31	154	55373	5.42813 ppb		98
9) Fluorene	6.92	166	73907	5.83820 ppb		86
11) Phenanthrene	8.03	178	110949	5.47789 ppb		97
12) Anthracene	8.08	178	100633	5.43037 ppb		99
14) Fluoranthene	9.40	202	157762	5.74535 ppb		96
16) Pyrene	9.66	202	160531	5.65052 ppb		98
17) Benz (a) anthracene	11.12	228	155457	5.55704 ppb		95
18) Chrysene	11.16	228	155030	5.45114 ppb		98
19) Indeno (1,2,3-cd) pyrene	15.04	276	190006	5.60685 ppb	#	88
21) Benzo (b) fluoranthene	12.93	252	151122	5.02335 ppb		99
22) Benzo (k) fluoranthene	12.99	252	190699	5.69569 ppb		98
23) Benzo (a) pyrene	13.48	252	152819	5.51119 ppb		98
24) Dibenz (a,h) anthracene	15.08	278	161900	5.42115 ppb	#	97
25) Benzo (g,h,i) perylene	15.42	276	163725	5.29931 ppb		97

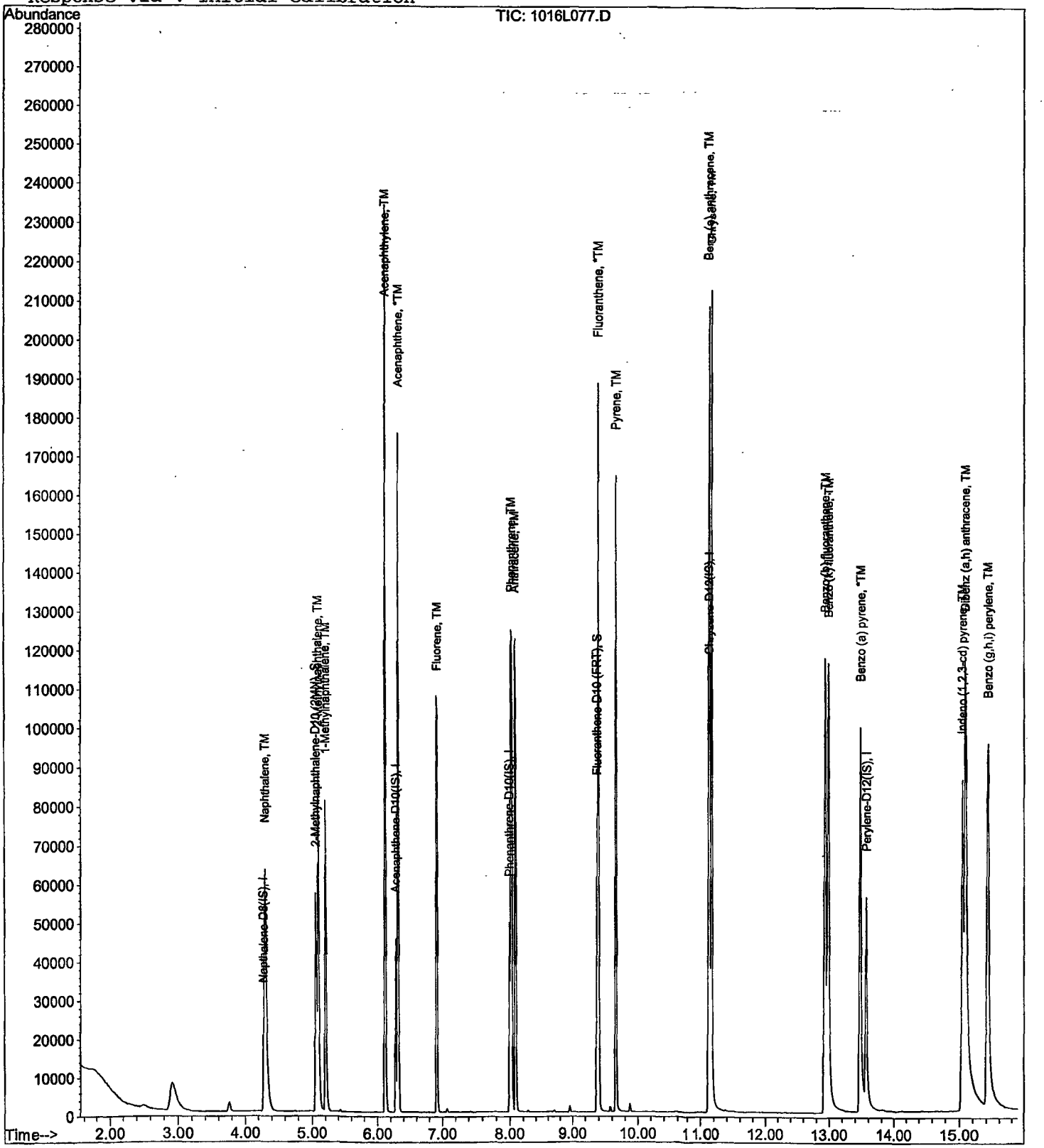
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L077.D Vial: 77
Acq On : 19 Oct 20 21:37 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 20 9:11 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/21/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L091.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	0.9600	0.9096	5.3	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.114	1.169	4.9	S	
4	TM	2-Methylnaphthalene	0.6501	0.6319	2.8	TM	
5	TM	1-Methylnaphthalene	0.6400	0.6213	2.9	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	3.679	3.549	3.5	TM	
8	*TM	Acenaphthene	1.093	1.009	7.7	*TM	
9	TM	Fluorene	1.356	1.336	1.5	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.018	1.063	4.4	TM	
12	TM	Anthracene	0.9311	0.9812	5.4	TM	
13	S	Fluoranthene-D10 (FRT)	1.238	1.303	5.2	S	
14	*TM	Fluoranthene	1.380	1.472	6.7	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.043	1.079	3.4	TM	
17	TM	Benz (a) anthracene	1.027	1.015	1.2	TM	
18	TM	Chrysene	1.044	1.050	0.52	TM	
19	TM	Indeno (1,2,3-cd) pyrene	1.244	1.283	3.1	TM	
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	0.9609	0.9103	5.3	TM	
22	TM	Benzo (k) fluoranthene	1.069	1.156	8.1	TM	
23	*TM	Benzo (a) pyrene	0.8856	0.9146	3.3	*TM	
24	TM	Dibenz (a,h) anthracene	0.9538	0.9993	4.8	TM	
25	TM	Benzo (g,h,i) perylene	0.9868	1.036	5.0	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.3		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L091.D Vial: 91
Acq On : 21 Oct 20 9:57 Operator: MA
Sample : 5 SIM 08/21/20 (1) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 21 10:17 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	50360	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	27789	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	51334	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	71945	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	78146	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	58881	2.62369 ppb		0.00
Spiked Amount 5.000			Recovery	= 52.480%		
13) Fluoranthene-D10 (FRT)	9.38	212	66907	2.63103 ppb		0.00
Spiked Amount 5.000			Recovery	= 52.620%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	91614	4.73724 ppb		99
4) 2-Methylnaphthalene	5.08	142	63642	4.85982 ppb		97
5) 1-Methylnaphthalene	5.19	142	62580	4.85422 ppb		99
7) Acenaphthylene	6.11	152	197265	4.82409 ppb		100
8) Acenaphthene	6.31	154	56076	4.61717 ppb		96
9) Fluorene	6.90	166	74247	4.92628 ppb		89
11) Phenanthrene	8.01	178	109094	5.22063 ppb		99
12) Anthracene	8.08	178	100733	5.26857 ppb		98
14) Fluoranthene	9.40	202	151122	5.33425 ppb		100
16) Pyrene	9.66	202	155232	5.17016 ppb		99
17) Benz (a) anthracene	11.11	228	146023	4.93910 ppb		99
18) Chrysene	11.16	228	151067	5.02614 ppb		99
19) Indeno (1,2,3-cd) pyrene	15.04	276	184544	5.15282 ppb	#	91
21) Benzo (b) fluoranthene	12.93	252	142268	4.73679 ppb		99
22) Benzo (k) fluoranthene	12.98	252	180669	5.40496 ppb		99
23) Benzo (a) pyrene	13.46	252	142948	5.16365 ppb		98
24) Dibenz (a,h) anthracene	15.08	278	156182	5.23825 ppb		99
25) Benzo (g,h,i) perylene	15.41	276	161862	5.24759 ppb		97

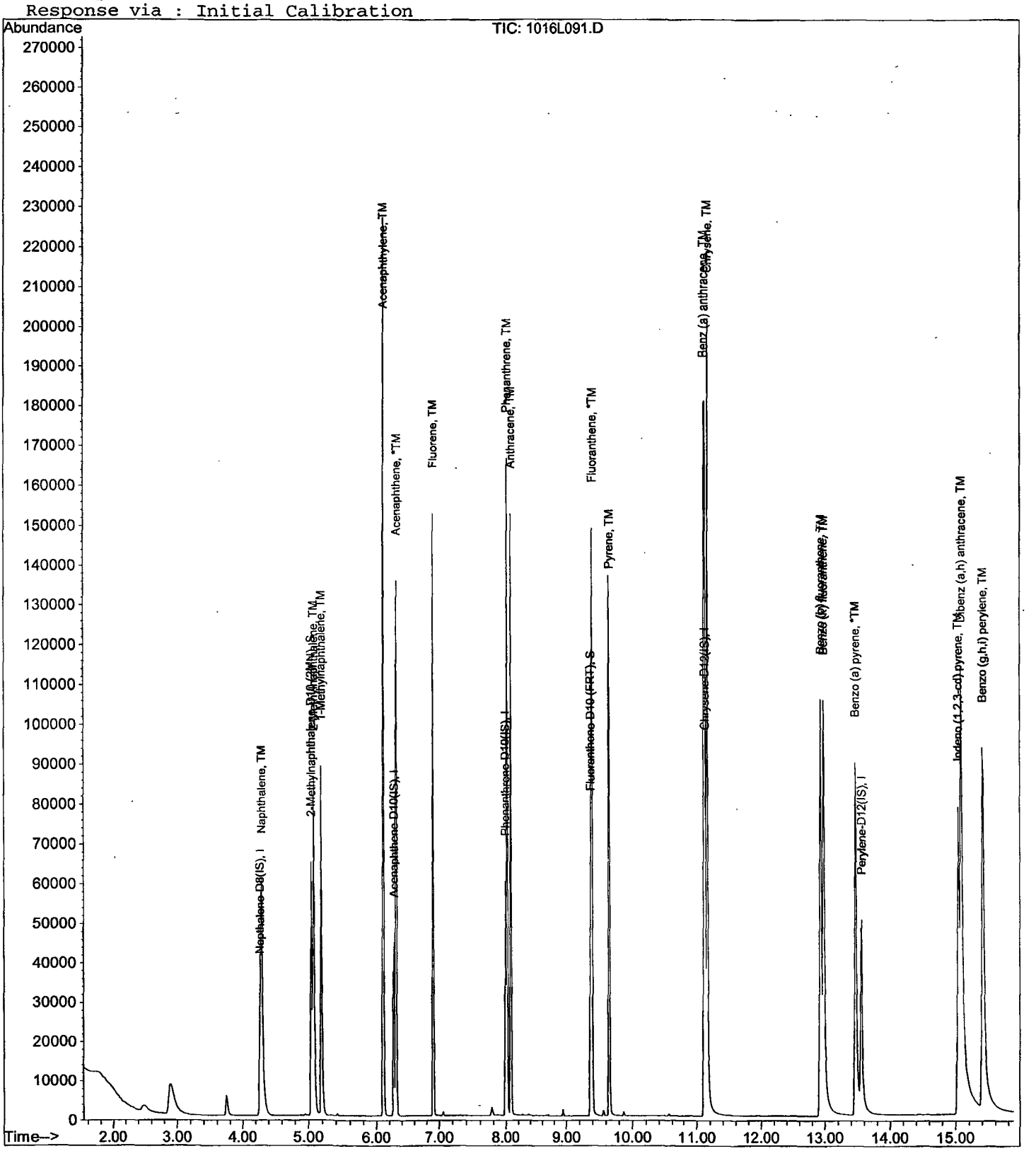
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L091.D Vial: 91
Acq On : 21 Oct 20 9:57 Operator: MA
Sample : 5 SIM 08/21/20 (1) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 21 10:17 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/21/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L114.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	0.9600	1.136	18	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.114	1.239	11	S	
4	TM	2-Methylnaphthalene	0.6501	0.7529	16	TM	
5	TM	1-Methylnaphthalene	0.6400	0.7349	15	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	3.679	4.200	14	TM	
8	*TM	Acenaphthene	1.093	1.126	3.0	*TM	
9	TM	Fluorene	1.356	1.393	2.7	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.018	1.092	7.3	TM	
12	TM	Anthracene	0.9311	1.073	15	TM	
13	S	Fluoranthene-D10 (FRT)	1.238	1.434	16	S	
14	*TM	Fluoranthene	1.380	1.620	17	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.043	1.062	1.8	TM	
17	TM	Benz (a) anthracene	1.027	1.177	15	TM	
18	TM	Chrysene	1.044	1.149	10	TM	
19	TM	Indeno (1,2,3-cd) pyrene	1.244	1.524	22	TM	
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	0.9609	1.059	10	TM	
22	TM	Benzo (k) fluoranthene	1.069	1.107	3.6	TM	
23	*TM	Benzo (a) pyrene	0.8856	0.9517	7.5	*TM	
24	TM	Dibenz (a,h) anthracene	0.9538	1.045	9.6	TM	
25	TM	Benzo (g,h,i) perylene	0.9868	1.018	3.2	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			10.9		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L114.D Vial: 14
Acq On : 21 Oct 20 18:58 Operator: MA
Sample : 5 SIM 08/21/20 (2) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 22 9:48 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	42119	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	25551	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	49693	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	69706	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	83566	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	52190	2.78056	ppb		0.00
Spiked Amount 5.000			Recovery = 55.620%				
13) Fluoranthene-D10 (FRT)	9.38	212	71267	2.89502	ppb		0.00
Spiked Amount 5.000			Recovery = 57.900%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	95682	5.91563	ppb		99
4) 2-Methylnaphthalene	5.08	142	63419	5.79033	ppb		100
5) 1-Methylnaphthalene	5.19	142	61906	5.74149	ppb		93
7) Acenaphthylene	6.11	152	214654	5.70913	ppb		99
8) Acenaphthene	6.31	154	57529	5.15170	ppb		96
9) Fluorene	6.92	166	71178	5.13630	ppb		85
11) Phenanthrene	8.03	178	108490	5.36317	ppb		97
12) Anthracene	8.09	178	106689	5.76435	ppb		96
14) Fluoranthene	9.40	202	160994	5.87036	ppb		95
16) Pyrene	9.66	202	148050	5.08934	ppb		95
17) Benz (a) anthracene	11.12	228	164042	5.72680	ppb		98
18) Chrysene	11.16	228	160181	5.50056	ppb		98
19) Indeno (1,2,3-cd) pyrene	15.05	276	212396	6.12099	ppb	#	95
21) Benzo (b) fluoranthene	12.93	252	177054	5.51264	ppb	#	98
22) Benzo (k) fluoranthene	12.99	252	185098	5.17831	ppb		96
23) Benzo (a) pyrene	13.48	252	159060	5.37300	ppb		98
24) Dibenz (a,h) anthracene	15.10	278	174706	5.47950	ppb		98
25) Benzo (g,h,i) perylene	15.42	276	170146	5.15838	ppb		99

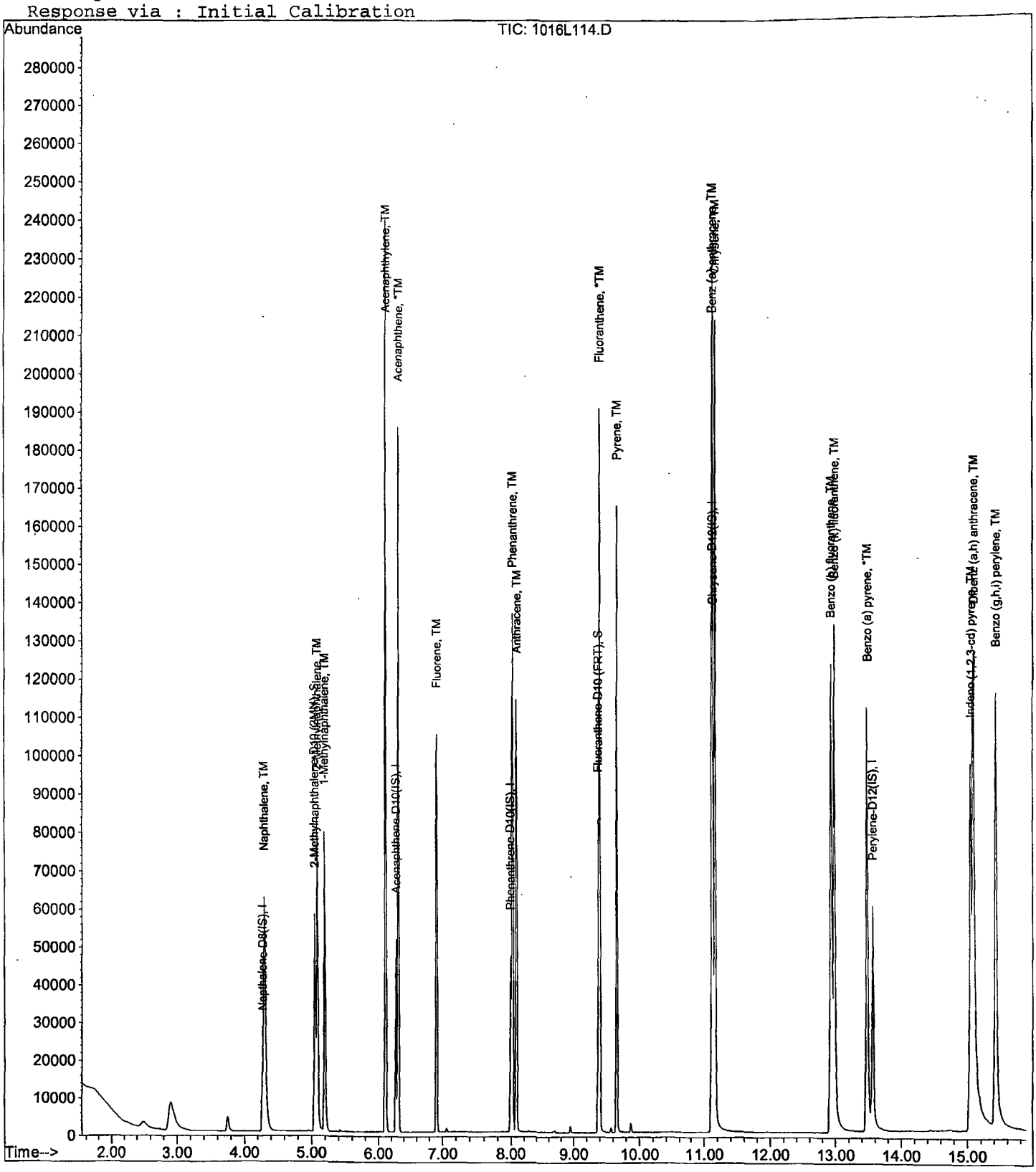
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L114.D Vial: 14
Acq On : 21 Oct 20 18:58 Operator: MA
Sample : 5 SIM 08/21/20 (2) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 22 9:48 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L099.D Vial: 99
Acq On : 21 Oct 20 13:09 Operator: MA
Sample : BA20184W13 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 21 14:26 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	39770	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	6.28	164	21528	2.50000 ppb	0.00
10) Phenanthrene-D10(IS)	7.99	188	40338	2.50000 ppb	0.00
15) Chrysene-D12(IS)	11.13	240	55562	2.50000 ppb	0.00
20) Perylene-D12(IS)	13.56	264	62711	2.50000 ppb	0.00
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	5.05	152	81192	5.72651 ppb	0.00
Spiked Amount 6.250			Recovery = 91.632%		
13) Fluoranthene-D10 (FRT)	9.38	212	105430	6.59506 ppb	0.00
Spiked Amount 6.250			Recovery = 105.520%		

Target Compounds Qvalue

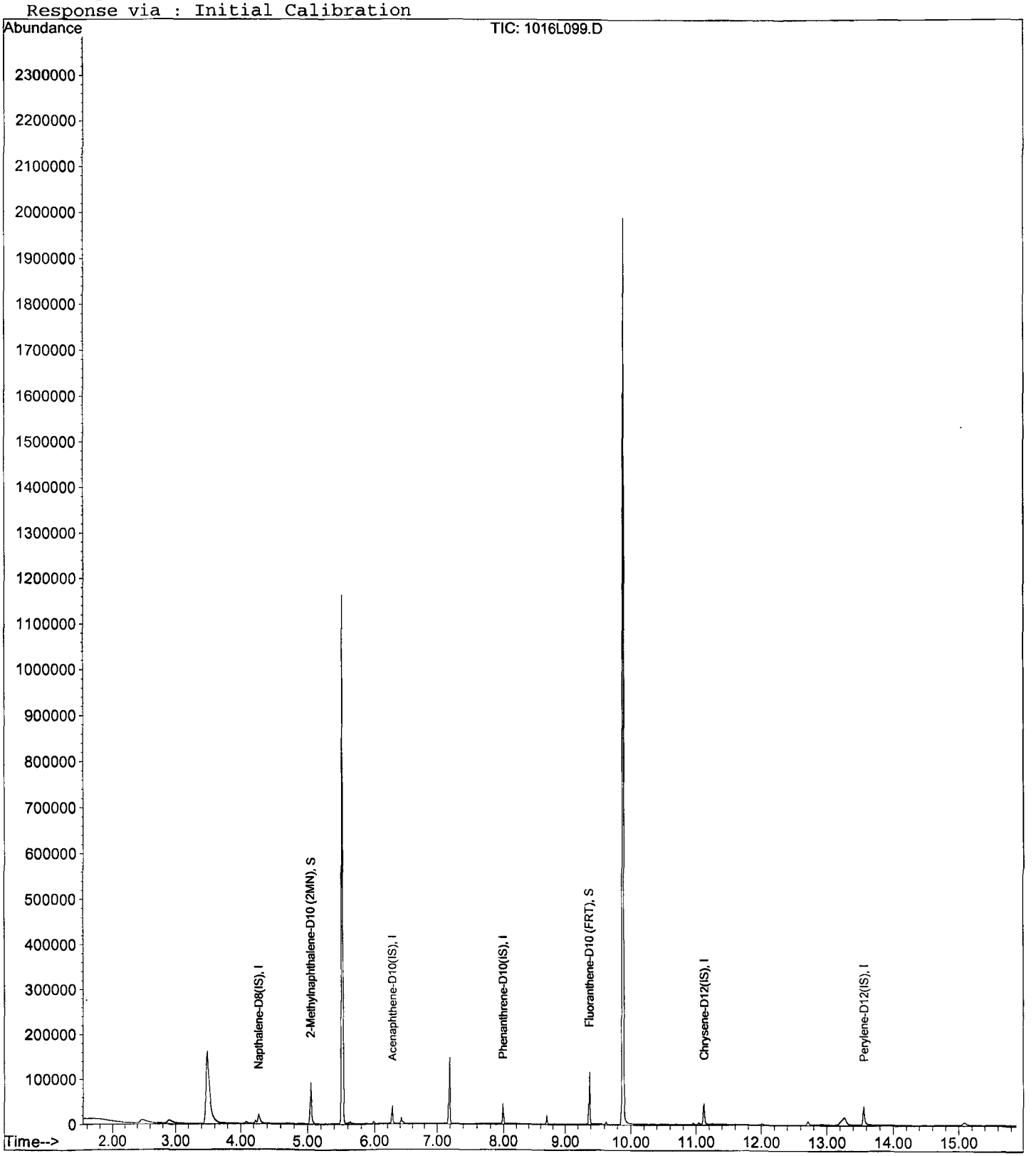
(#) = qualifier out of range (m) = manual integration
1016L099.D L1016.M Thu Oct 22 16:38:23 2020 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L099.D Vial: 99
Acq On : 21 Oct 20 13:09 Operator: MA
Sample : BA20184W13 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 21 14:26 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L100.D Vial: 100
Acq On : 21 Oct 20 13:31 Operator: MA
Sample : BA20186W16 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 21 14:27 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	35592	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	6.28	164	20158	2.50000	ppb	0.00
10) Phenanthrene-D10(IS)	7.99	188	38940	2.50000	ppb	0.00
15) Chrysene-D12(IS)	11.13	240	55911	2.50000	ppb	0.00
20) Perylene-D12(IS)	13.56	264	62752	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	89409	7.04630	ppb	0.00
Spiked Amount 6.250			Recovery = 112.736%			
13) Fluoranthene-D10 (FRT)	9.38	212	116497	7.54897	ppb	0.00
Spiked Amount 6.250			Recovery = 120.784%			
Target Compounds						Qvalue

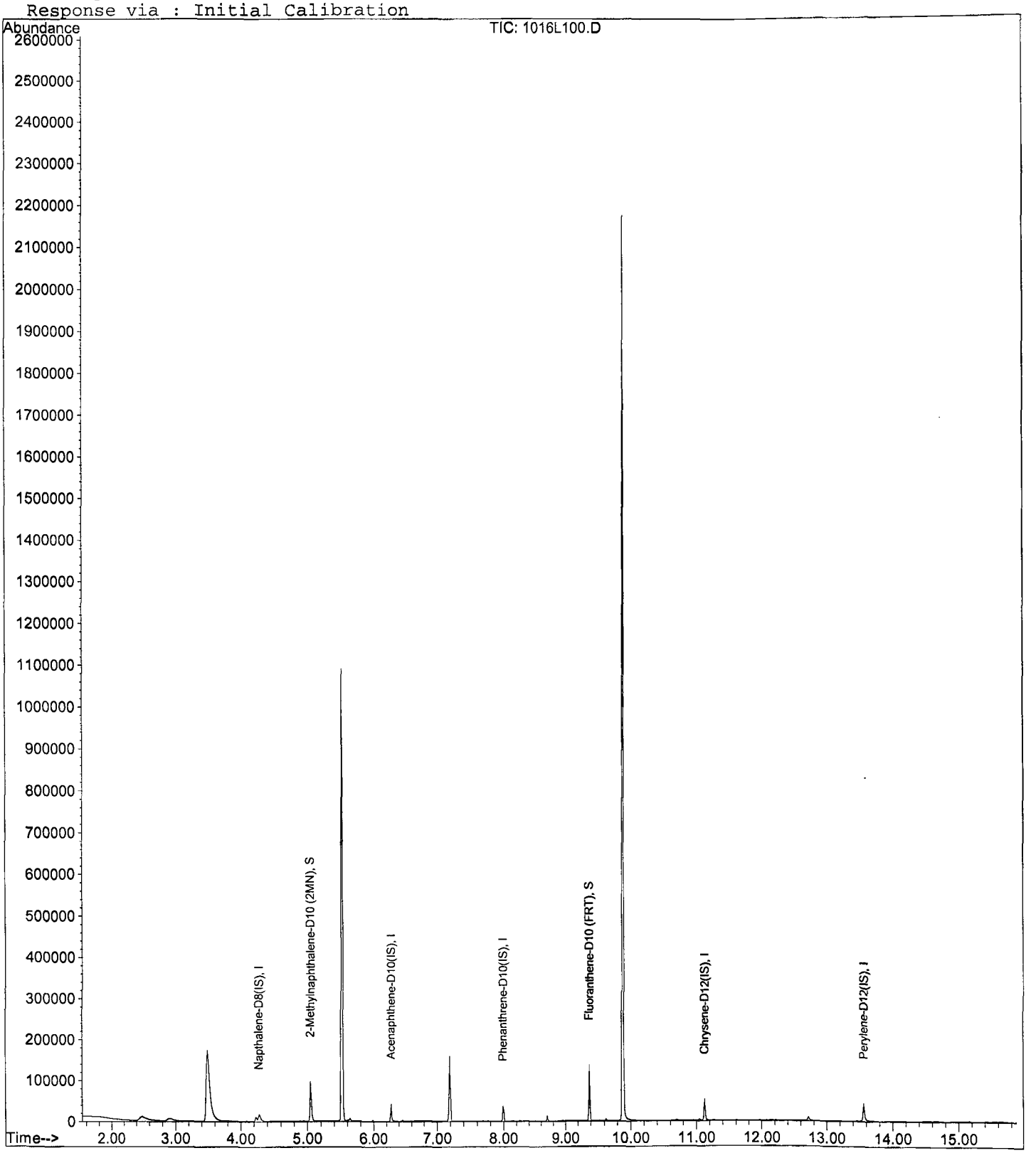
(#) = qualifier out of range (m) = manual integration
1016L100.D L1016.M Thu Oct 22 16:38:28 2020 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L100.D Vial: 100
Acq On : 21 Oct 20 13:31 Operator: MA
Sample : BA20186W16 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 21 14:27 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L101.D Vial: 1
Acq On : 21 Oct 20 13:53 Operator: MA
Sample : BA20188W16 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 21 14:27 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	36092	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	6.28	164	20269	2.50000	ppb	0.00
10) Phenanthrene-D10(IS)	7.99	188	37987	2.50000	ppb	0.00
15) Chrysene-D12(IS)	11.13	240	53472	2.50000	ppb	0.00
20) Perylene-D12(IS)	13.56	264	62126	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	83777	6.51098	ppb	0.00
Spiked Amount 6.250			Recovery = 104.176%			
13) Fluoranthene-D10 (FRT)	9.38	212	110121	7.31483	ppb	0.00
Spiked Amount 6.250			Recovery = 117.040%			

Target Compounds	Qvalue

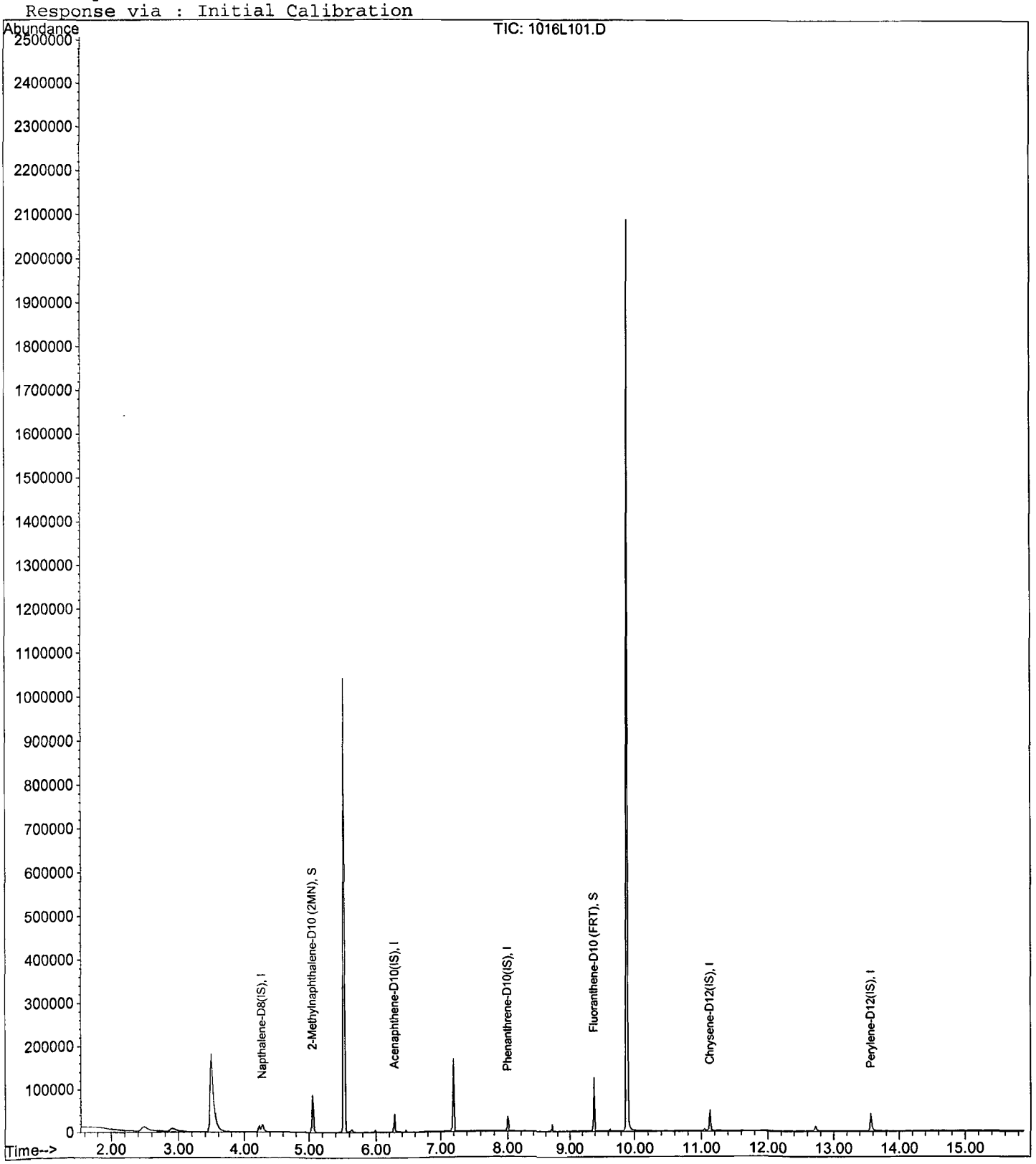
(#) = qualifier out of range (m) = manual integration
1016L101.D L1016.M Thu Oct 22 16:38:33 2020 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L101.D Vial: 1
Acq On : 21 Oct 20 13:53 Operator: MA
Sample : BA20188W16 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 21 14:27 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L102.D Vial: 2
Acq On : 21 Oct 20 14:15 Operator: MA
Sample : BA20190W13 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 21 14:59 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	35074	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	6.28	164	19801	2.50000 ppb	0.00
10) Phenanthrene-D10(IS)	7.99	188	38576	2.50000 ppb	0.00
15) Chrysene-D12(IS)	11.13	240	53536	2.50000 ppb	0.00
20) Perylene-D12(IS)	13.56	264	58450	2.50000 ppb	0.00
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	5.05	152	82619	6.60734 ppb	0.00
Spiked Amount 6.250			Recovery	= 105.712%	
13) Fluoranthene-D10 (FRT)	9.38	212	106831	6.98794 ppb	0.00
Spiked Amount 6.250			Recovery	= 111.808%	

Target Compounds Qvalue

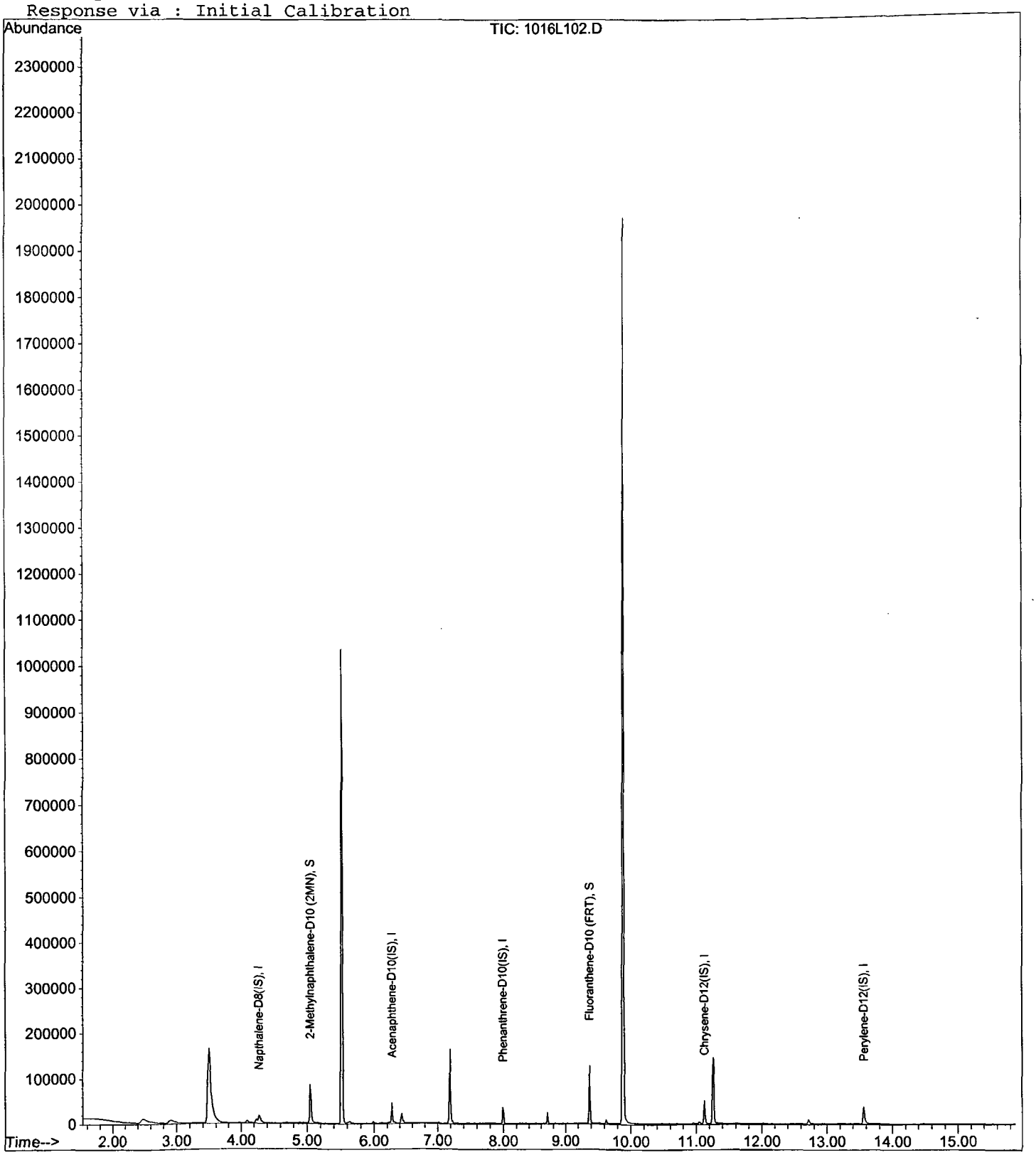
(#) = qualifier out of range (m) = manual integration
1016L102.D L1016.M Thu Oct 22 16:38:38 2020 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L102.D Vial: 2
Acq On : 21 Oct 20 14:15 Operator: MA
Sample : BA20190W13 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 21 14:59 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L069.D Vial: 69
Acq On : 19 Oct 20 18:40 Operator: MA
Sample : 201015A BLK 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 20 11:55 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	43325	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	6.28	164	24649	2.50000	ppb	0.00
10) Phenanthrene-D10(IS)	7.99	188	48493	2.50000	ppb	0.00
15) Chrysene-D12(IS)	11.13	240	68070	2.50000	ppb	0.00
20) Perylene-D12(IS)	13.56	264	78359	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	71844	4.65141	ppb	0.00
Spiked Amount 6.250			Recovery = 74.416%			
13) Fluoranthene-D10 (FRT)	9.38	212	98640	5.13267	ppb	0.00
Spiked Amount 6.250			Recovery = 82.128%			

Target Compounds	Qvalue

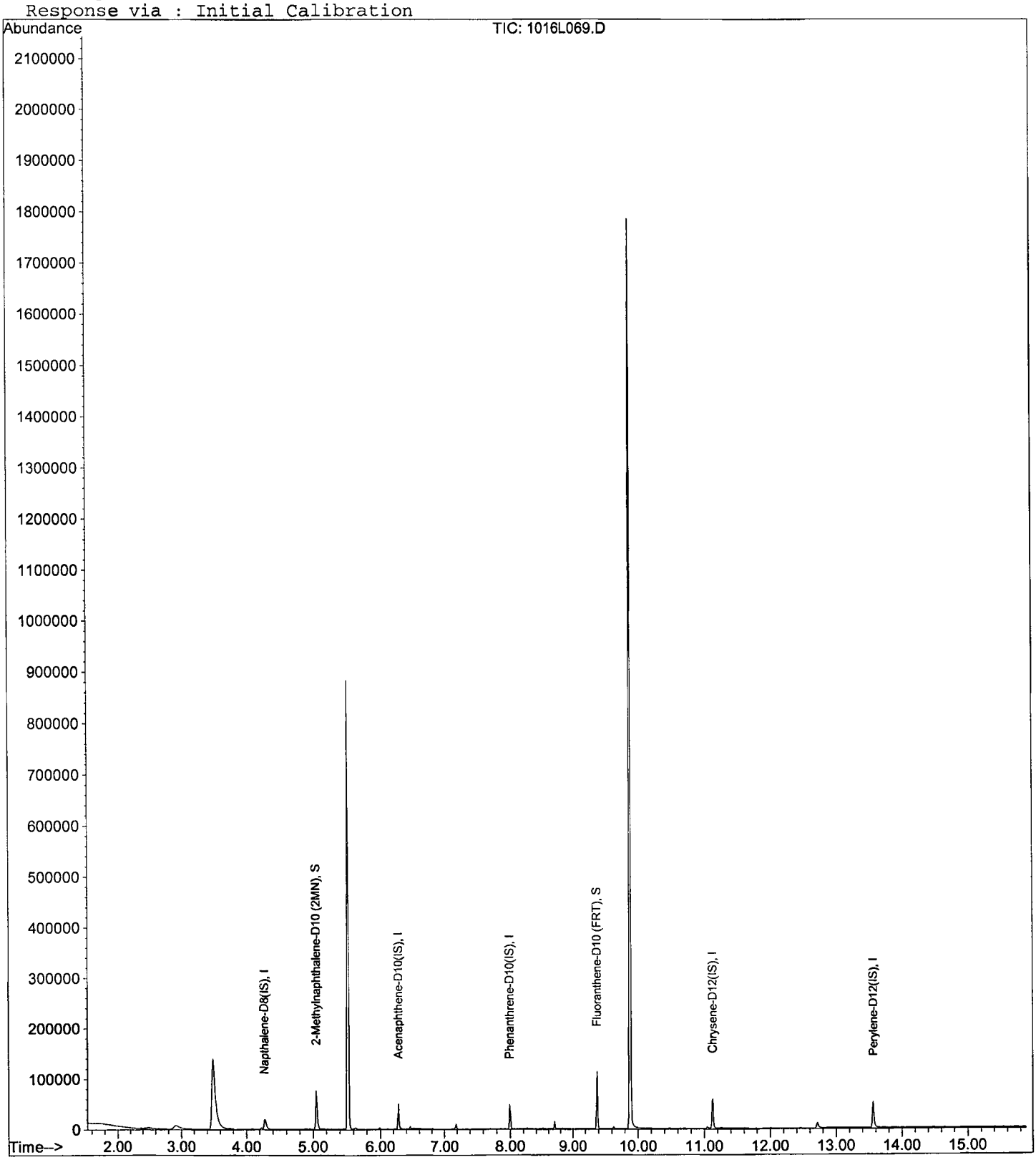
(#) = qualifier out of range (m) = manual integration
1016L069.D L1016.M Thu Oct 22 16:38:07 2020 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L069.D Vial: 69
Acq On : 19 Oct 20 18:40 Operator: MA
Sample : 201015A BLK 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 20 11:55 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L070.D Vial: 70
Acq On : 19 Oct 20 19:02 Operator: MA
Sample : 201015A LCS-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 20 10:41 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	43130	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	21575	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	44240	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	59825	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	67645	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	75203	4.89089	ppb		0.00
Spiked Amount 6.250			Recovery = 78.256%				
13) Fluoranthene-D10 (FRT)	9.38	212	97117	5.53923	ppb		0.00
Spiked Amount 6.250			Recovery = 88.624%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	63102	4.76236	ppb		99
4) 2-Methylnaphthalene	5.08	142	41313	4.60446	ppb		99
5) 1-Methylnaphthalene	5.19	142	40578	4.59400	ppb		99
7) Acenaphthylene	6.11	152	139180	5.47992	ppb		99
8) Acenaphthene	6.31	154	40455	5.36294	ppb		99
9) Fluorene	6.90	166	50464	5.39081	ppb		97
11) Phenanthrene	8.03	178	76136	5.28460	ppb		97
12) Anthracene	8.08	178	70151	5.32175	ppb		99
14) Fluoranthene	9.40	202	116020	5.93989	ppb		98
16) Pyrene	9.66	202	111972	5.60609	ppb		99
17) Benz (a) anthracene	11.11	228	105502	5.36433	ppb		99
18) Chrysene	11.16	228	104456	5.22428	ppb		98
19) Indeno (1,2,3-cd) pyrene	15.04	276	133982	5.62367	ppb	#	93
21) Benzo (b) fluoranthene	12.93	252	105344	5.06486	ppb		99
22) Benzo (k) fluoranthene	12.99	252	131035	5.66079	ppb	#	97
23) Benzo (a) pyrene	13.48	252	98412	5.13343	ppb		96
24) Dibenz (a,h) anthracene	15.08	278	113790	5.51113	ppb		98
25) Benzo (g,h,i) perylene	15.42	276	113711	5.32351	ppb		96

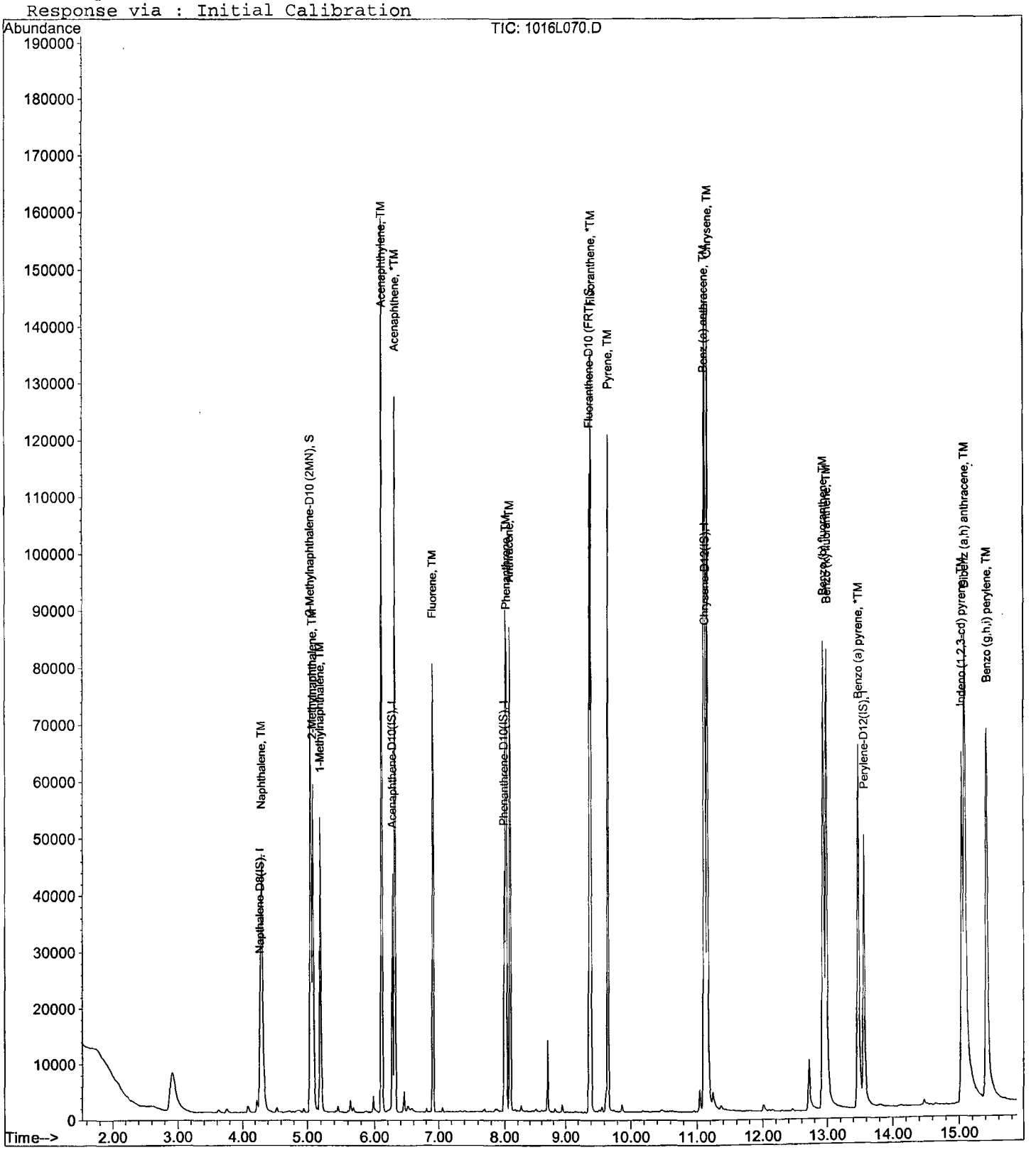
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L070.D Vial: 70
Acq On : 19 Oct 20 19:02 Operator: MA
Sample : 201015A LCS-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 20 10:41 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L071.D Vial: 71
Acq On : 19 Oct 20 19:24 Operator: MA
Sample : 201015A LCSD-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 20 10:41 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.29	136	37274	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	6.28	164	20718	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	41443	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	55635	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	62798	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	80851	6.08432 ppb		0.00
Spiked Amount 6.250			Recovery	= 97.344%		
13) Fluoranthene-D10 (FRT)	9.38	212	98889	6.02096 ppb		0.00
Spiked Amount 6.250			Recovery	= 96.336%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	64371	5.62138 ppb		100
4) 2-Methylnaphthalene	5.08	142	42715	5.50866 ppb		98
5) 1-Methylnaphthalene	5.19	142	43441	5.69080 ppb		95
7) Acenaphthylene	6.11	152	134776	5.52603 ppb		99
8) Acenaphthene	6.31	154	41346	5.70778 ppb		96
9) Fluorene	6.92	166	51070	5.68121 ppb		86
11) Phenanthrene	8.03	178	78222	5.79582 ppb		97
12) Anthracene	8.09	178	67602	5.47450 ppb		97
14) Fluoranthene	9.40	202	109659	5.99313 ppb		96
16) Pyrene	9.66	202	109484	5.89435 ppb		95
17) Benz (a) anthracene	11.12	228	108002	5.90501 ppb		97
18) Chrysene	11.16	228	109083	5.86658 ppb		98
19) Indeno (1,2,3-cd) pyrene	15.04	276	137111	6.18842 ppb	#	88
21) Benzo (b) fluoranthene	12.93	252	104479	5.41099 ppb		98
22) Benzo (k) fluoranthene	12.99	252	132745	6.17729 ppb		98
23) Benzo (a) pyrene	13.48	252	100342	5.63809 ppb		98
24) Dibenz (a,h) anthracene	15.10	278	117644	6.13757 ppb		98
25) Benzo (g,h,i) perylene	15.42	276	114724	5.78549 ppb		98

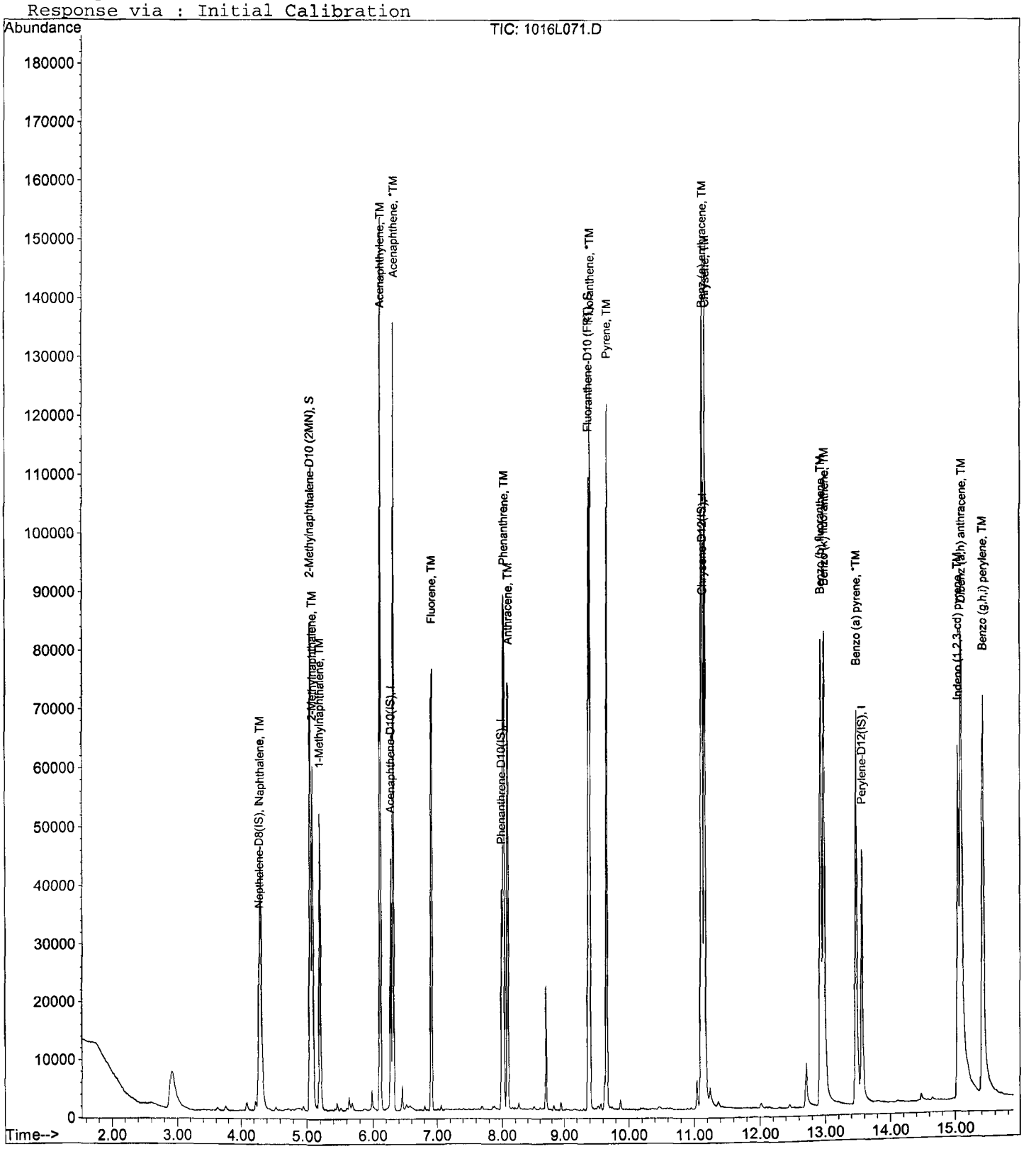
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L071.D Vial: 71
Acq On : 19 Oct 20 19:24 Operator: MA
Sample : 201015A LCSD-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 20 10:41 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration

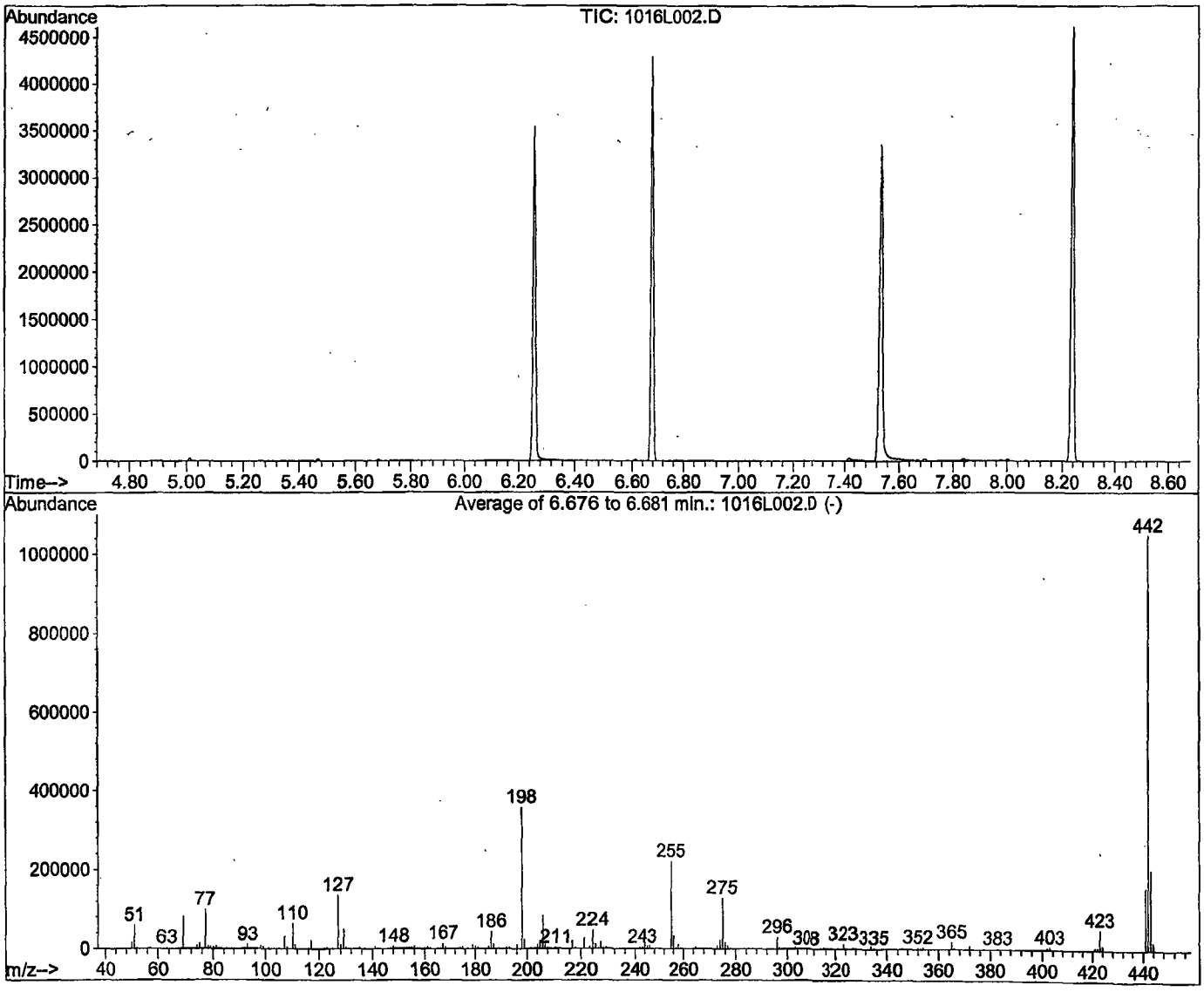


DFTPP

Data File : M:\LINUS\DATA\L201016\1016L002.D
Acq On : 16 Oct 20 10:21
Sample : SV Tune 10/01/19
Misc :

Vial: 2
Operator: MA
Inst : Linus
Multiplr: 1.00

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270



AutoFind: Scans 1643, 1644, 1645; Background Corrected with Scan 1634

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	16.6	59205	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	502	PASS
127	198	10	80	38.1	135989	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	357205	PASS
199	198	5	9	6.7	23979	PASS
275	198	10	60	35.8	127832	PASS
365	198	1	100	5.1	18325	PASS
441	442	0.01	24	14.9	155691	PASS
442	198	50	500	293.3	1047637	PASS
443	442	15	24	19.2	201045	PASS

M:\LINUS\DATA\L201016\1016L002.D

Data File Name:	**1016L002.D**
Data File Path:	**M:\LINUS\DATA\L201016**
Operator:	**MA**
Date Acquired:	**16 Oct 2020 10:21**
Method File:	**DFTPP2.M**
Sample Name:	**SV Tune 10/01/19**
Vial Number:	**2**
Instrument Name:	**Linus**

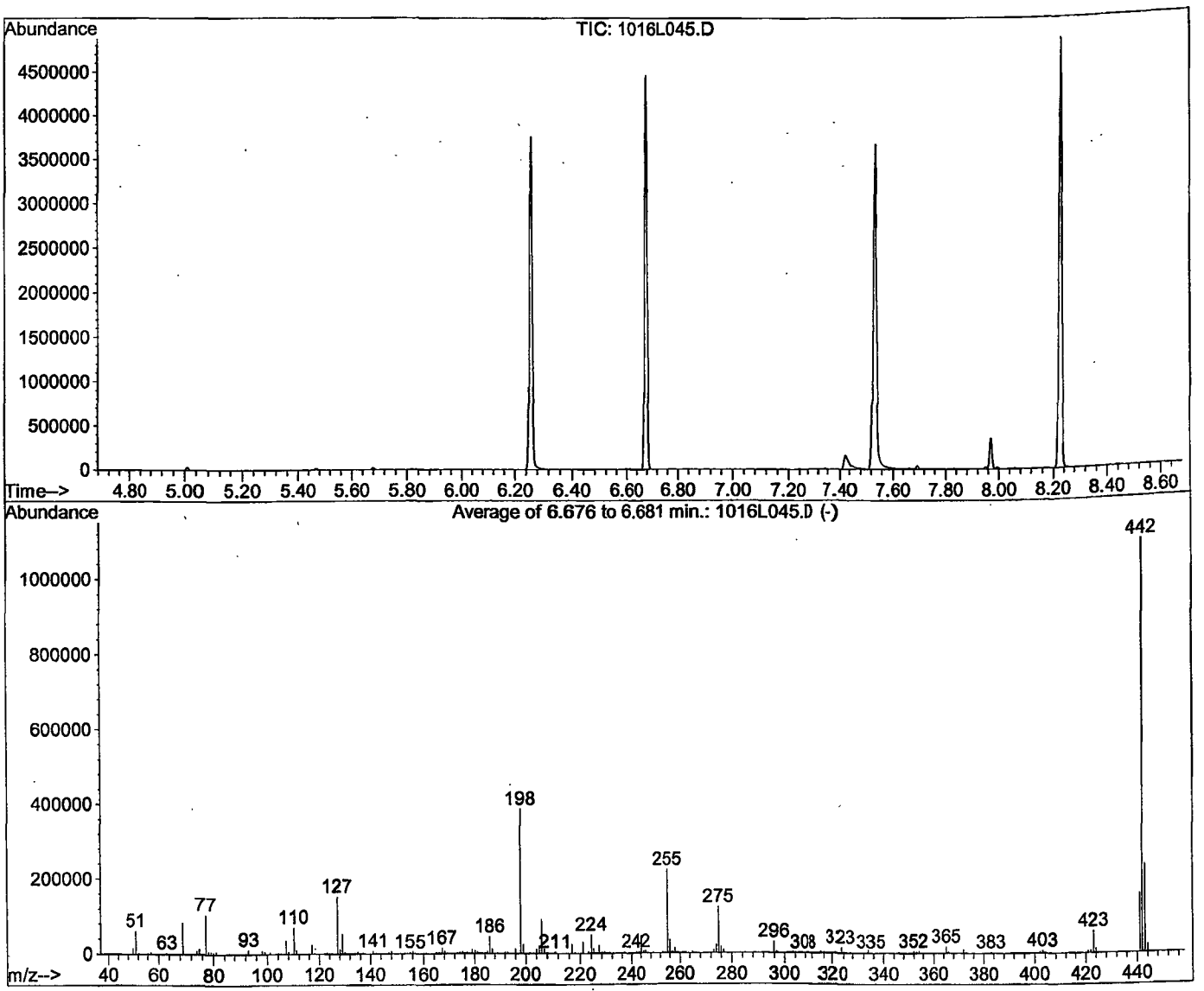
#	Name	Ret Time	Target Response
1)	DDT	8.24	32904900
2)	DDD	7.98	120213
3)	DDE	6.84	0

Breakdown **0.36**

DFTPP

Data File : M:\LINUS\DATA\L201016\1016L045.D Vial: 45
Acq On : 19 Oct 20 9:45 Operator: MA
Sample : SV Tune 10/02/20 Inst : Linus
Misc : Multiplr: 1.00

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270



AutoFind: Scans 1643, 1644, 1645; Background Corrected with Scan 1634

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	15.8	61144	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	493	PASS
127	198	10	80	39.4	152096	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	386027	PASS
199	198	5	9	6.2	23797	PASS
275	198	10	60	31.7	122379	PASS
365	198	1	100	4.5	17447	PASS
441	442	0.01	24	14.3	156437	PASS
442	198	50	500	284.1	1096683	PASS
443	442	15	24	21.1	231936	PASS

Data File Name:	**1016L045.D**
Data File Path:	**M:\LINUS\DATA\L201016**
Operator:	**MA**
Date Acquired:	**19 Oct 2020 09:45**
Method File:	**DFTPP2.M**
Sample Name:	**SV Tune 10/02/20**
Vial Number:	**45**
Instrument Name:	**Linus**

#	Name	Ret Time	Target Response
1)	DDT	8.24	35482800
2)	DDD	7.98	2386340
3)	DDE	6.84	0

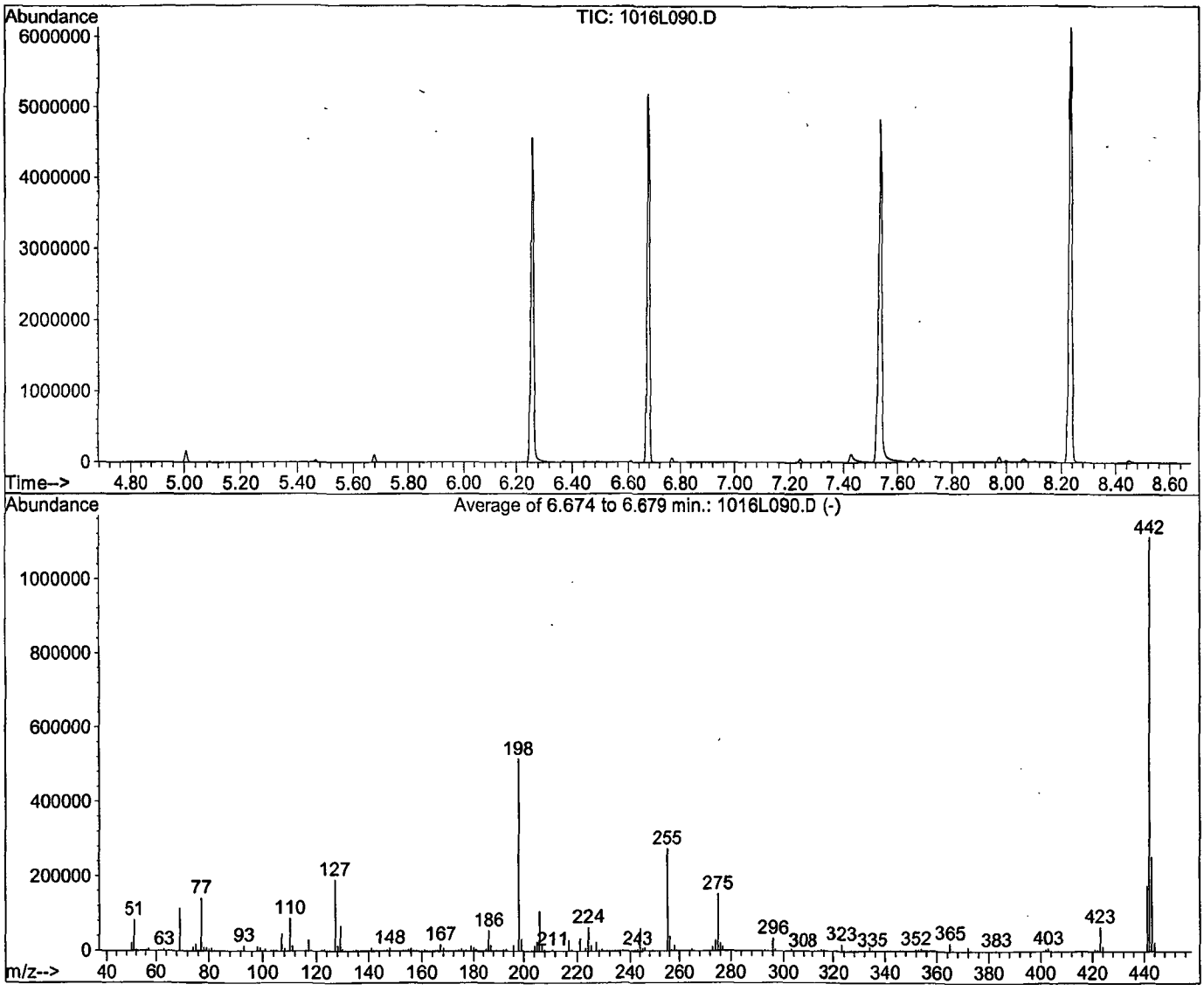
Breakdown **6.30**

DFTPP

Data File : M:\LINUS\DATA\L201016\1016L090.D
Acq On : 21 Oct 20 9:41
Sample : SV Tune 10/02/20
Misc :

Vial: 90
Operator: MA
Inst : Linus
Multiplr: 1.00

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270



AutoFind: Scans 1642, 1643, 1644; Background Corrected with Scan 1634

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	16.1	83059	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	372	PASS
127	198	10	80	37.2	191701	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	515243	PASS
199	198	5	9	6.3	32675	PASS
275	198	10	60	29.6	152757	PASS
365	198	1	100	4.2	21648	PASS
441	442	0.01	24	15.8	176320	PASS
442	198	50	500	215.9	1112661	PASS
443	442	15	24	22.8	253803	PASS

1016L090.D L1016.M Wed Oct 21 09:56:21 2020

Data File Name:	**1016L090.D**
Data File Path:	**M:\LINUS\DATA\L201016**
Operator:	**MA**
Date Acquired:	**21 Oct 2020 09:41**
Method File:	**DFTPP2.M**
Sample Name:	**SV Tune 10/02/20**
Vial Number:	**90**
Instrument Name:	**Linus**

#	Name	Ret Time	Target Response
1)	DDT	8.24	46316200
2)	DDD	7.98	507325
3)	DDE	6.84	0

Breakdown **1.08**

Standard	**SIM Curve**
Prep Date	**08/21/20**
Exp Date	**06/19/21**

Prep'd By (Initials) **MA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/21/20	06/19/21	10 uL	1000 uL	MC 59130 990 uL	0.1 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL			2.50g/mL
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/21/20	06/19/21	20 uL	1000 uL	MC 59130 980 uL	0.2 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL			2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/21/20	06/19/21	10 uL	1000 uL	MC 59130 990 uL	0.5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL			2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/21/20	06/19/21	20 uL	1000 uL	MC 59130 980 uL	1.0 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL			2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	08/20/20	08/20/21	5 uL	200 uL	MC 59130 190 uL	5.0 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	5 uL			2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	4 uL			2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	08/20/20	08/20/21	5 uL	100 uL	MC 59130 95 uL	10 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	5 uL			5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL			2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200	08/20/20	08/20/21	25 uL	100 uL	MC 59130 50 uL	50 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	25 uL			25 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL			2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	08/20/20	08/20/21	50 uL	100 uL	n/a	100 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	50 uL			50 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL			2.5ug/mL

Name of Final Standard	**8270 PAH SIM Second Source**
Prep Date	**08/21/20**
Exp Date	**08/19/21**

Prep'd By (Initials) **MA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	CL13117-40823. Open 7/24/19	12/31/22	5 uL	200 uL	MC 58130 1950 uL	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	4 uL			2.5ug/mL

Name of Final Standard	**PAH SIM Stock (Ampule)**
Prep Date	**08/20/20**
Exp Date	**08/20/21**

Prep'd By (I **MA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	ALO-130490	200 ug/mL	**CL13121-41383**	**12/31/22**	1000 uL	1mL	NA	200ug/mL

Name of Final Standard	SIM Surrogate	Prep'd By (Initials)	GD
Prep Date	08/11/20		
Exp Date	04/01/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0154854-49995,49992,50255,50256,50257	10/01/25	5mL	100 mL	Acetone #0234320	100 ug/mL

Name of Final Standard	8270 SIM PAH Internal Standard
Prep Date	06/19/20
Exp Date	06/19/21

Prep'd By (Initials) CD

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	A0157142-49875	12/31/25	625uL	10mL	MC DW717	125 ug/mL

Name of Final Standard	**SIM Spike**
Prep Date	**09/11/20**
Exp Date	**09/11/21**

Prep'd By (Initials) **MA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	CL13121- 41545 41546 41547 49548	12/31/22	.5 mL	25 mL	Acetone 0246130	40 ug/mL

Injection Log

Directory: M:\LINUS\DATA\L201016\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	1016L002.D	1	SV Tune 10/01/19		16 Oct 20 10:21
2	3	1016L003.D	1	0.1 SIM 08/21/20		16 Oct 20 10:37
3	4	1016L004.D	1	0.2 SIM 08/21/20		16 Oct 20 10:59
4	5	1016L005.D	1	0.5 SIM 08/21/20		16 Oct 20 11:21
5	6	1016L006.D	1	1 SIM 08/21/20		16 Oct 20 11:43
6	7	1016L007.D	1	5 SIM 08/21/20		16 Oct 20 12:05
7	8	1016L008.D	1	10 SIM 08/21/20		16 Oct 20 12:27
8	9	1016L009.D	1	50 SIM 08/21/20		16 Oct 20 12:50
9	10	1016L010.D	1	100 SIM 08/21/20		16 Oct 20 13:12
10	11	1016L011.D	1	SS SIM 08/21/20		16 Oct 20 13:34
11	45	1016L045.D	1	SV Tune 10/02/20		19 Oct 20 9:45
12	46	1016L046.D	1	5 SIM 08/21/20		19 Oct 20 10:01
13	69	1016L069.D	1.25	201015A BLK 1/800		19 Oct 20 18:40
14	70	1016L070.D	1.25	201015A LCS-2 1/800		19 Oct 20 19:02
15	71	1016L071.D	1.25	201015A LCSD-2 1/800		19 Oct 20 19:24
16	77	1016L077.D	1	5 SIM 08/21/20		19 Oct 20 21:37
17	90	1016L090.D	1	SV Tune 10/02/20		21 Oct 20 9:41
18	91	1016L091.D	1	5 SIM 08/21/20 (1)		21 Oct 20 9:57
19	99	1016L099.D	1.25	BA20184W13 1/800		21 Oct 20 13:09
20	100	1016L100.D	1.25	BA20186W16 1/800		21 Oct 20 13:31
21	1	1016L101.D	1.25	BA20188W16 1/800		21 Oct 20 13:53
22	2	1016L102.D	1.25	BA20190W13 1/800		21 Oct 20 14:15
23	14	1016L114.D	1	5 SIM 08/21/20 (2)		21 Oct 20 18:58

ORGANICS

Calibration Data

2MEE
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 05/01/20
Matrix: Instrument: Yoda Initials: MA

0501Y003.D 0501Y004.D 0501Y006.D 0501Y007.D 0501Y008.D 0501Y009.D 0501Y010.D 0501Y011.D

		Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r^2	Q	MRF
1	I	1,4-dichlorobenzene-D4(IS)																
2	TM	2-(2-Methoxyethoxy)ethanol	0.1264	0.1827	0.1475	0.1625	0.1354	0.1644	0.1592	0.1806			0.16	13	TM			
3																		
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Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y003.D Vial: 39
Acq On : 1 May 20 9:39 Operator: MA,SS
Sample : 50ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:24 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	428206	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.28	45	67679	26.91018	ppb	95

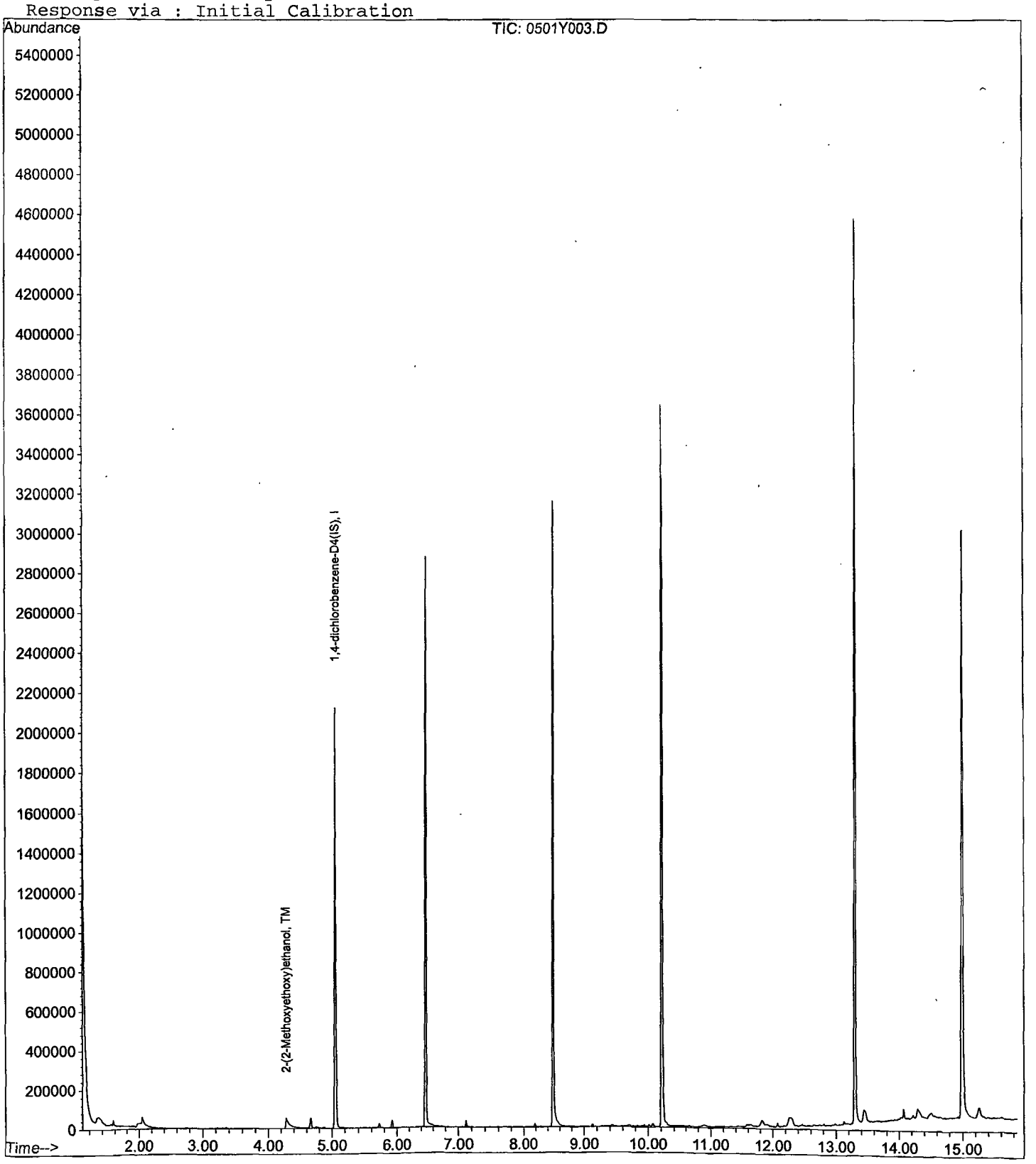
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y003.D Vial: 39
Acq On : 1 May 20 9:39 Operator: MA,SS
Sample : 50ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y004.D Vial: 40
Acq On : 1 May 20 10:03 Operator: MA,SS
Sample : 100ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	358512	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	163785	77.78322	ppb	99

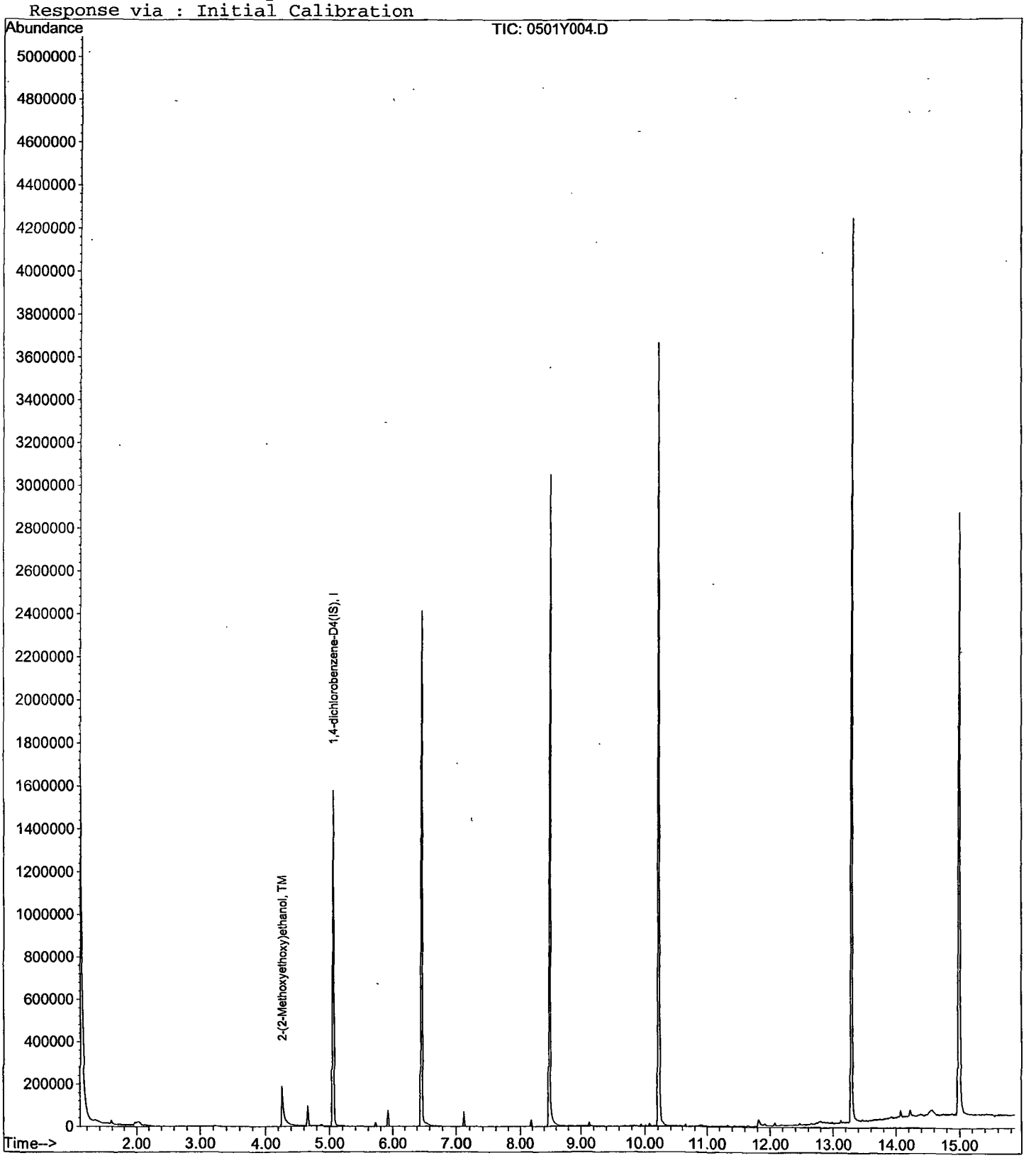
(#) = qualifier out of range (m) = manual integration
0501Y004.D YMEE0501.M Fri May 01 14:33:11 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y004.D Vial: 40
Acq On : 1 May 20 10:03 Operator: MA,SS
Sample : 100ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y006.D Vial: 42
Acq On : 1 May 20 10:51 Operator: MA,SS
Sample : 200ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	431824	40.00000 ppb	-0.01

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	318364	125.52571 ppb	98

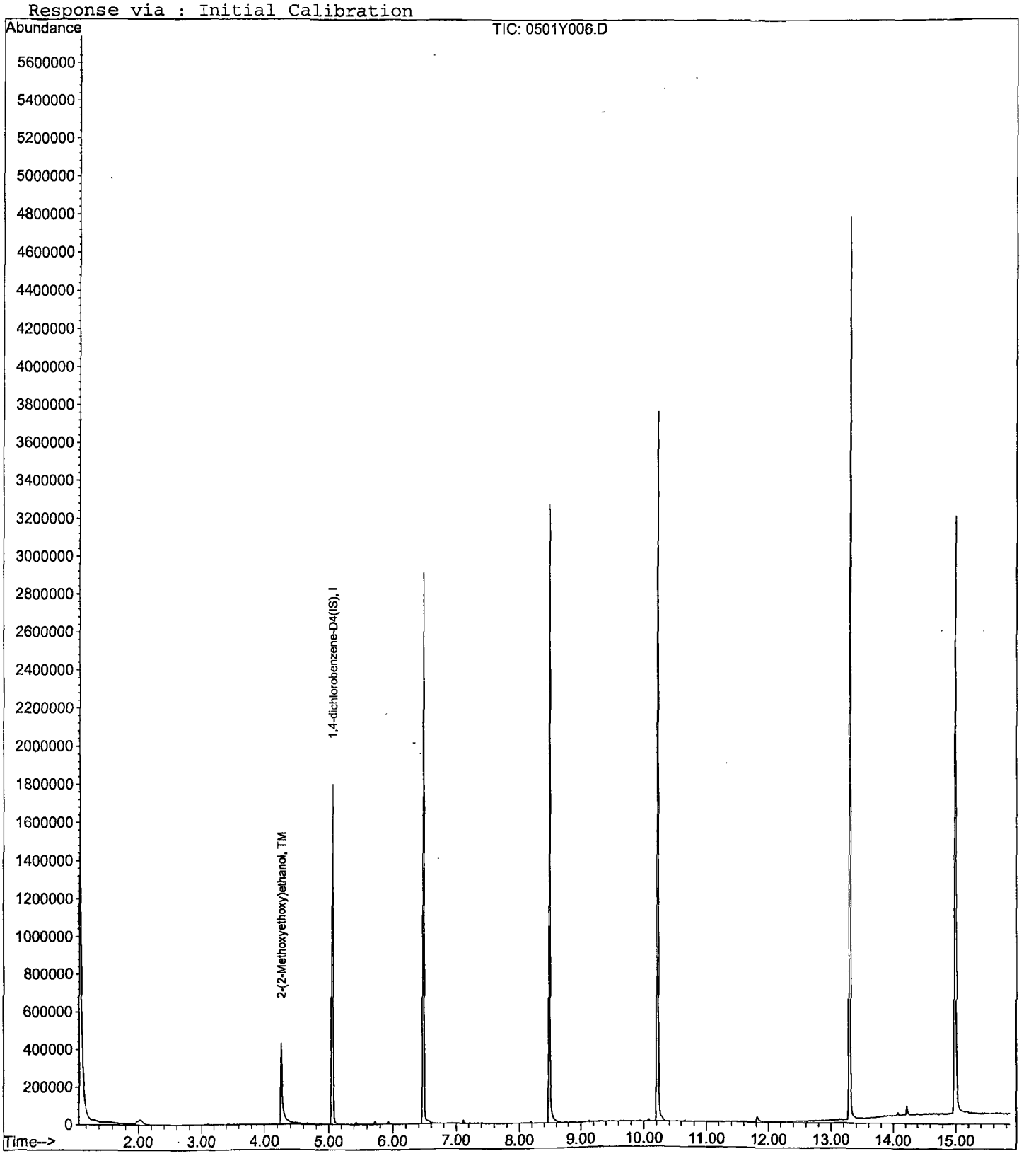
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y006.D Vial: 42
Acq On : 1 May 20 10:51 Operator: MA,SS
Sample : 200ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y007.D Vial: 7
Acq On : 1 May 20 11:24 Operator: MA,SS
Sample : 400ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	425852	40.00000 ppb	-0.01

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	692148	276.72970 ppb	99

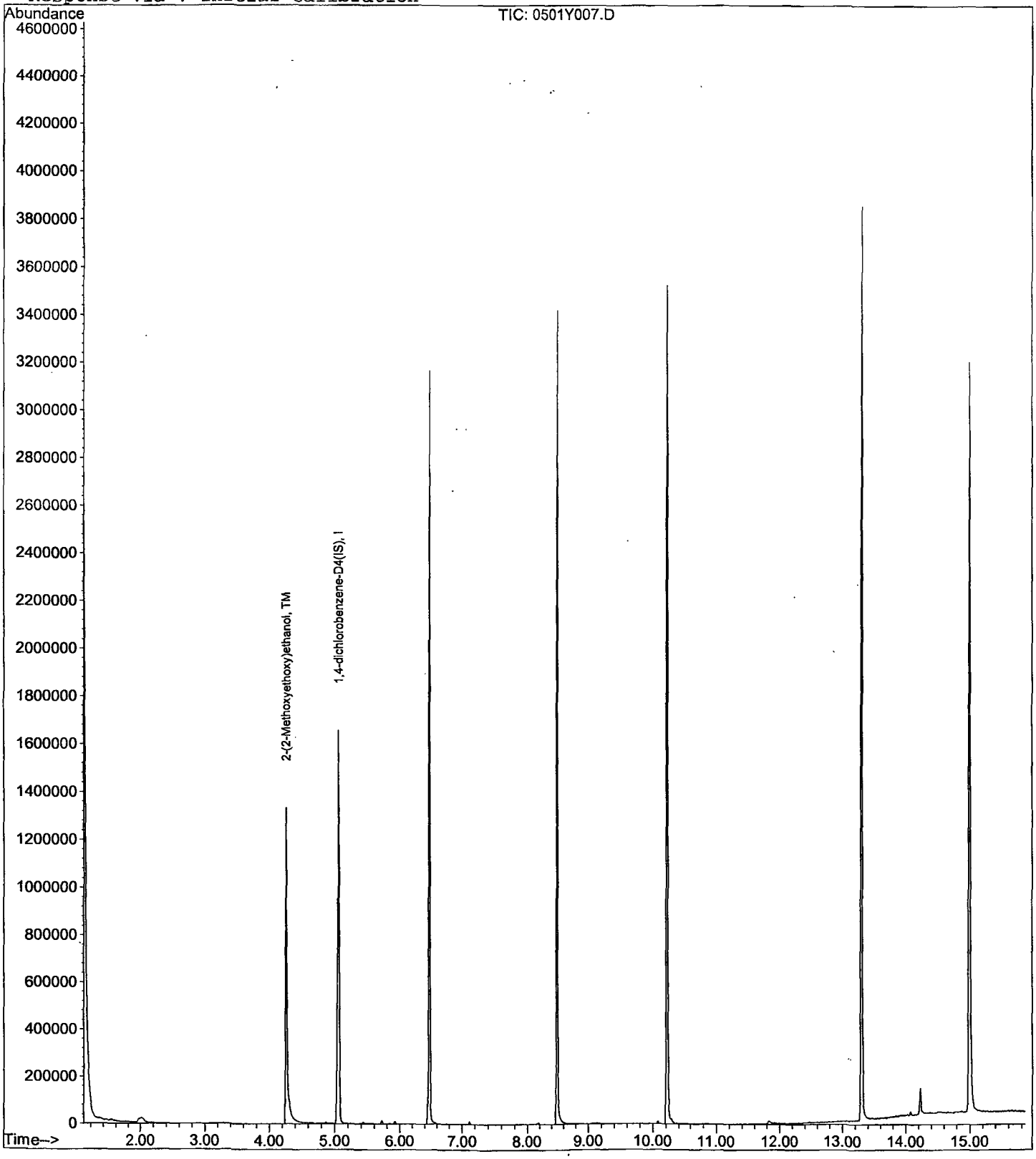
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y007.D Vial: 7
Acq On : 1 May 20 11:24 Operator: MA,SS
Sample : 400ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y008.D Vial: 8
Acq On : 1 May 20 11:48 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:16 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 12:15:50 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.07	152	483204	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.28	45	818058	442.11333	ppb	100

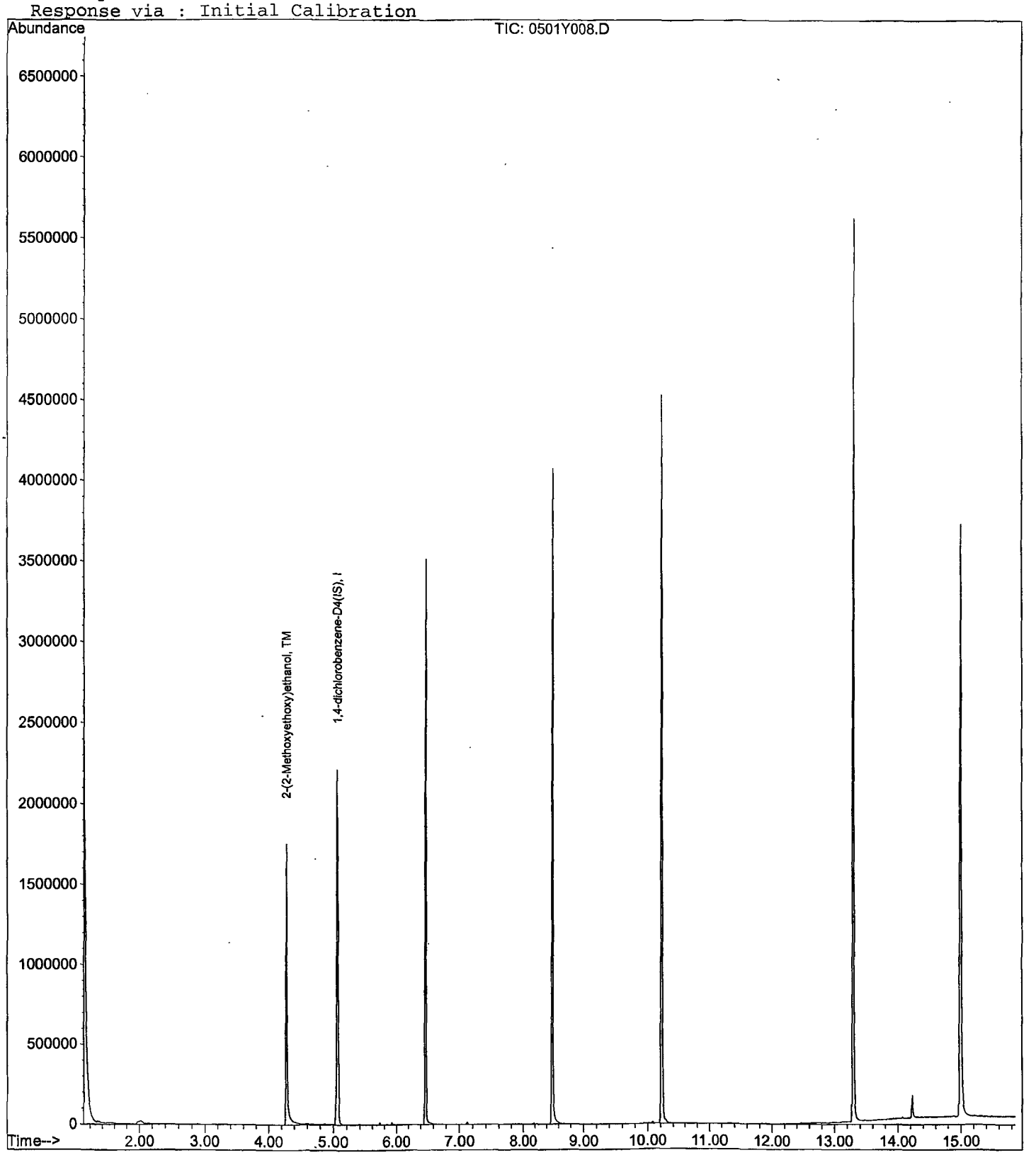
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y008.D Vial: 8
Acq On : 1 May 20 11:48 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:16 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y009.D Vial: 9
Acq On : 1 May 20 12:13 Operator: MA,SS
Sample : 600ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:14 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	445147	40.00000 ppb	-0.01
System Monitoring Compounds					
Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.27	45	1097935	518.98742 ppb	99

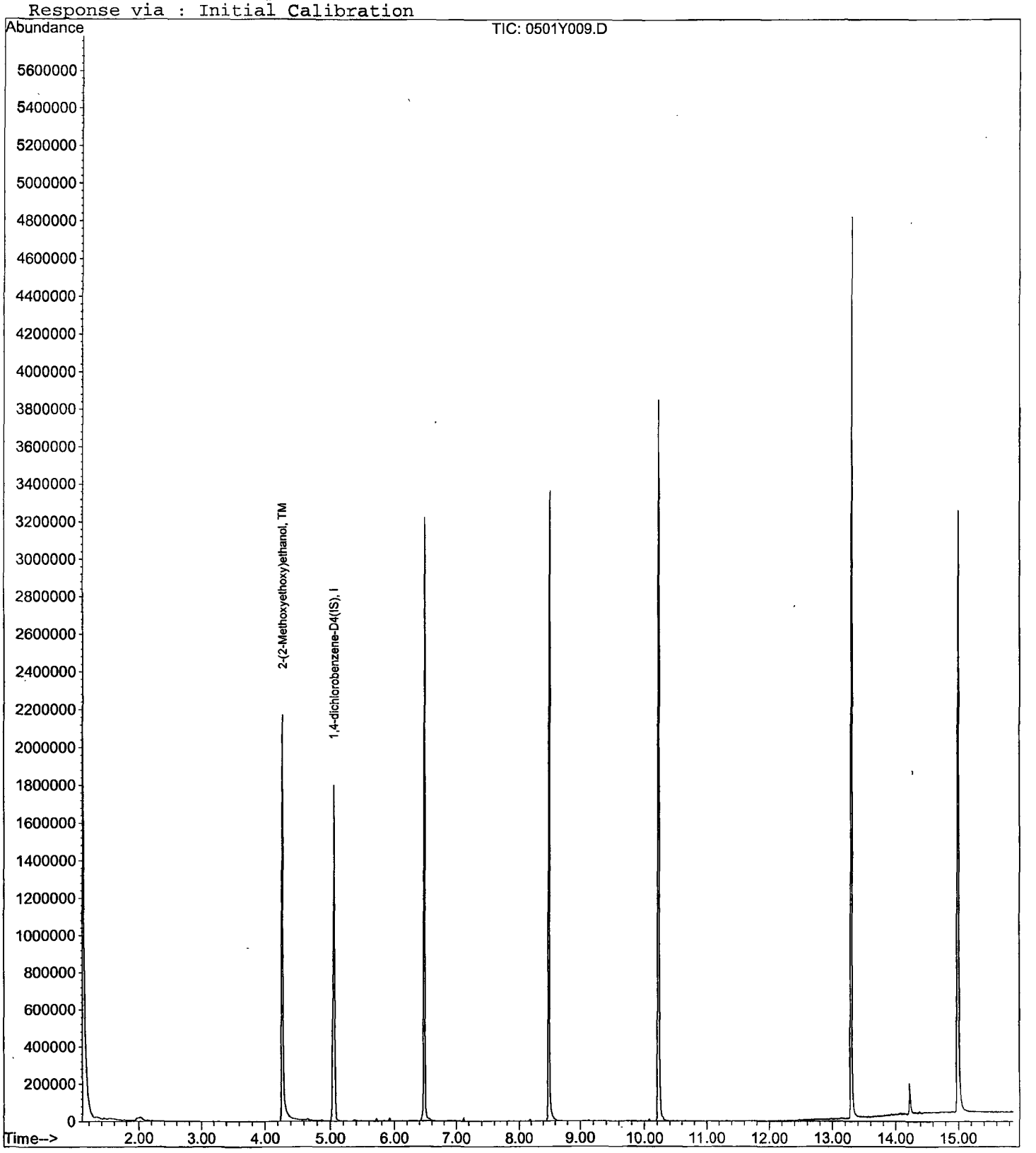
(#) = qualifier out of range (m) = manual integration
0501Y009.D YMEE0501.M Fri May 01 14:33:29 2020

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y009.D Vial: 9
Acq On : 1 May 20 12:13 Operator: MA,SS
Sample : 600ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:14 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y010.D Vial: 10
Acq On : 1 May 20 12:37 Operator: MA,SS
Sample : 800ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:36 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 12:15:50 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.07	152	461483	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.30	45	1469246	831.41690	ppb	99

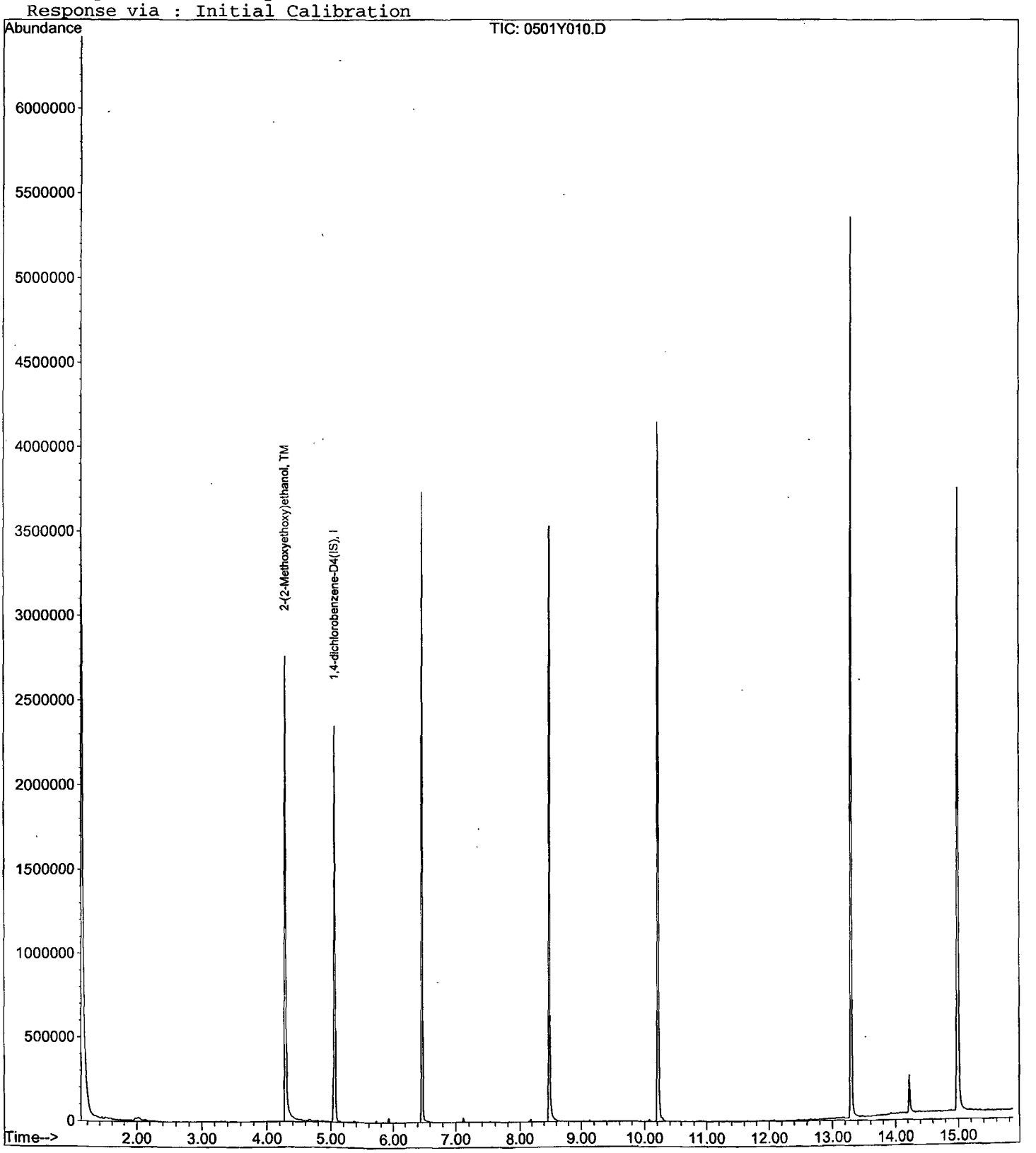
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y010.D Vial: 10
Acq On : 1 May 20 12:37 Operator: MA,SS
Sample : 800ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:36 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y011.D Vial: 11
Acq On : 1 May 20 13:01 Operator: MA,SS
Sample : 1000ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 13:03 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 12:15:50 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	445958	40.00000	ppb	-0.01

System Monitoring Compounds

Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.29	45	2014018	1172.78870	ppb	100

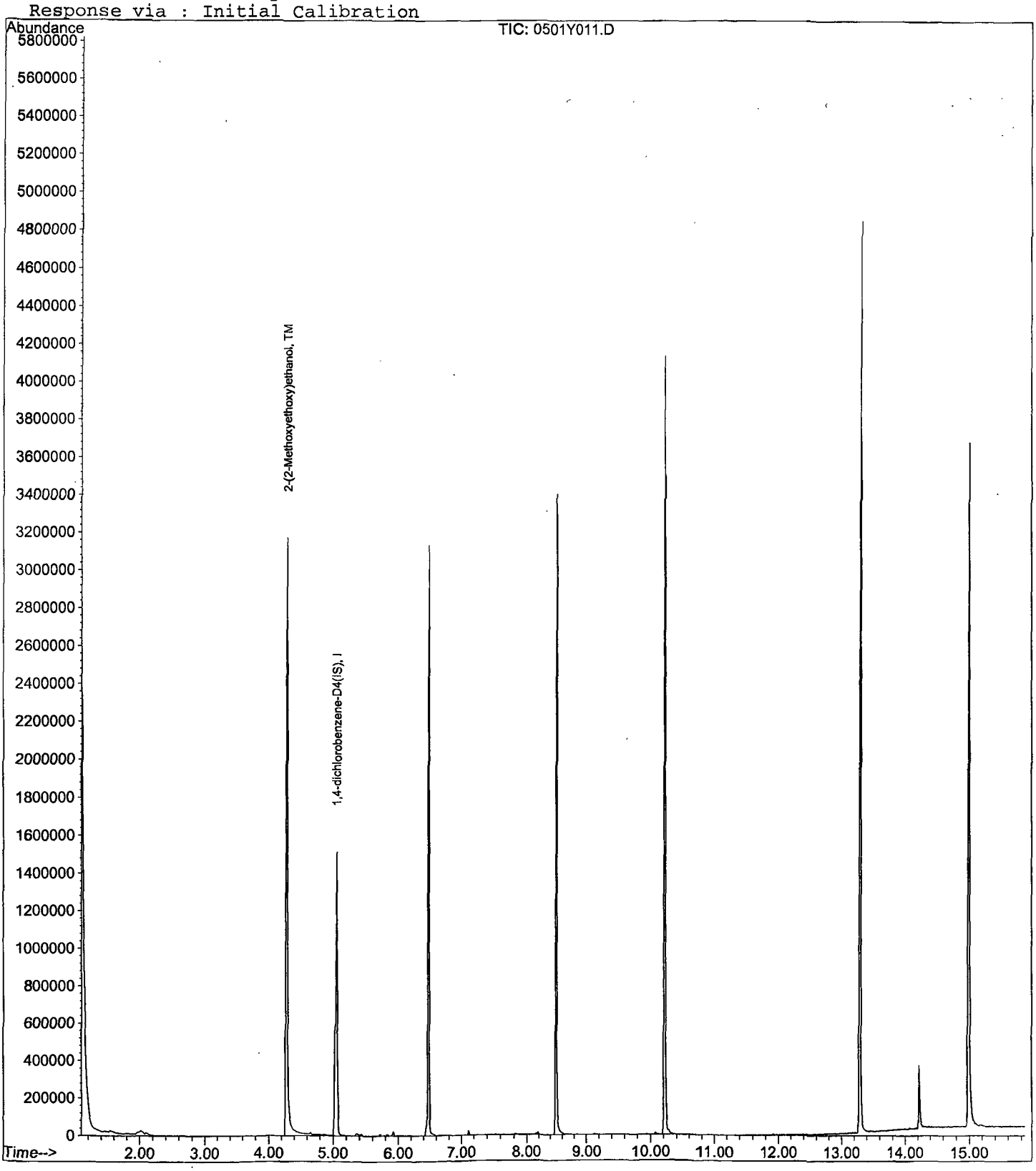
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y011.D Vial: 11
Acq On : 1 May 20 13:01 Operator: MA,SS
Sample : 1000ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 13:03 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



2MEE
EPA 8270

Form 7
Second Source

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 1 May 20 13:50
Instrument: Yoda
Initial Cal. Date: 05/01/20
Data File: 0501Y013.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TM	2-(2-Methoxyethoxy)ethanol	0.1574	0.1794	14	TM	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			14.0		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y013.D Vial: 13
Acq On : 1 May 20 13:50 Operator: MA,SS
Sample : SSug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 14:30 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	461050	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	1033684	569.91471	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

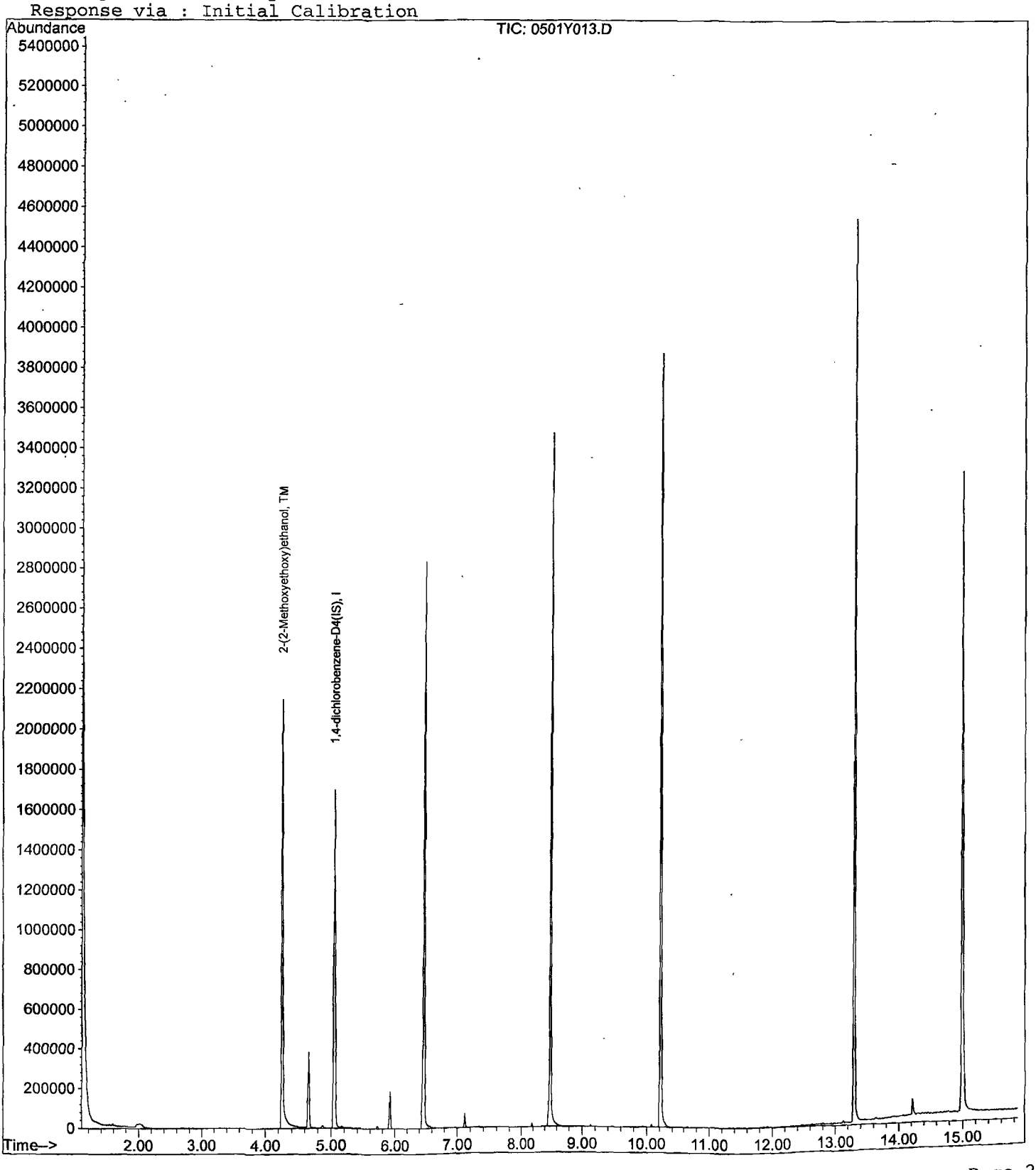
Data File : M:\YODA\DATA\Y200501M\0501Y013.D
Acq On : 1 May 20 13:50
Sample : SSug/ml MEE 05/01/20
Misc : soil

Vial: 13
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: May 1 14:30 2020

Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/20/20
Instrument: Yoda
Initial Cal. Date: 05/01/20
Data File: 0501Y105.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TM	2-(2-Methoxyethoxy)ethanol	0.1574	0.1513	3.9	TM	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
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30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			3.9		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y105.D Vial: 5
Acq On : 20 Oct 20 10:57 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (1) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 11:03 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 14 11:16:28 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.38	152	176279	40.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.57	45	333371	480.72570	ppb	99

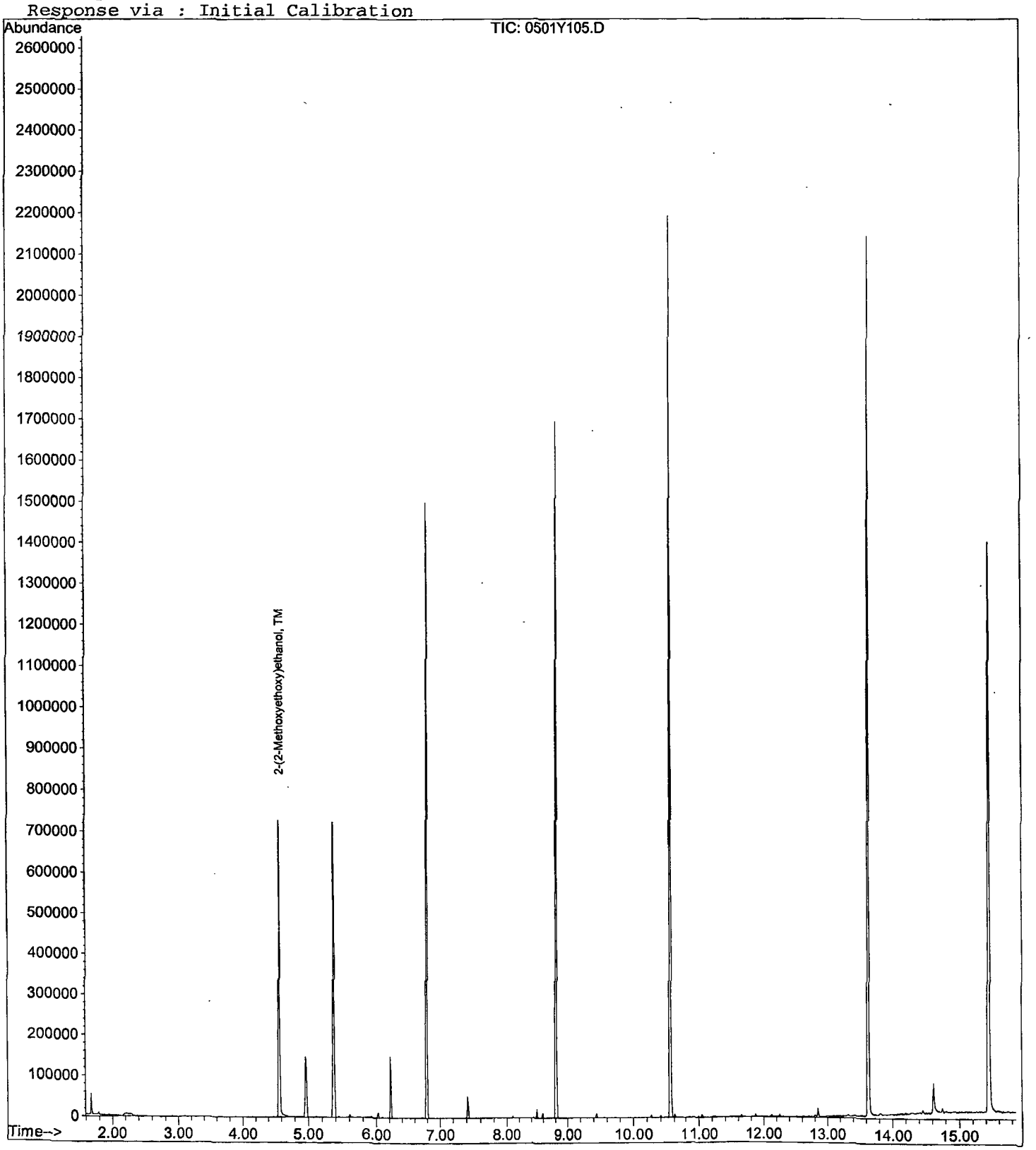
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y105.D Vial: 5
Acq On : 20 Oct 20 10:57 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (1) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 11:03 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 14 11:16:28 2020
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/20/20
Instrument: Yoda
Initial Cal. Date: 05/01/20
Data File: 0501Y127.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TM	2-(2-Methoxyethoxy)ethanol	0.1574	0.1674	6.4	TM	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
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31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			6.4		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y127.D Vial: 27
Acq On : 20 Oct 20 20:26 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:10 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.37	152	121864	40.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.56	45	254999	531.90387	ppb	100

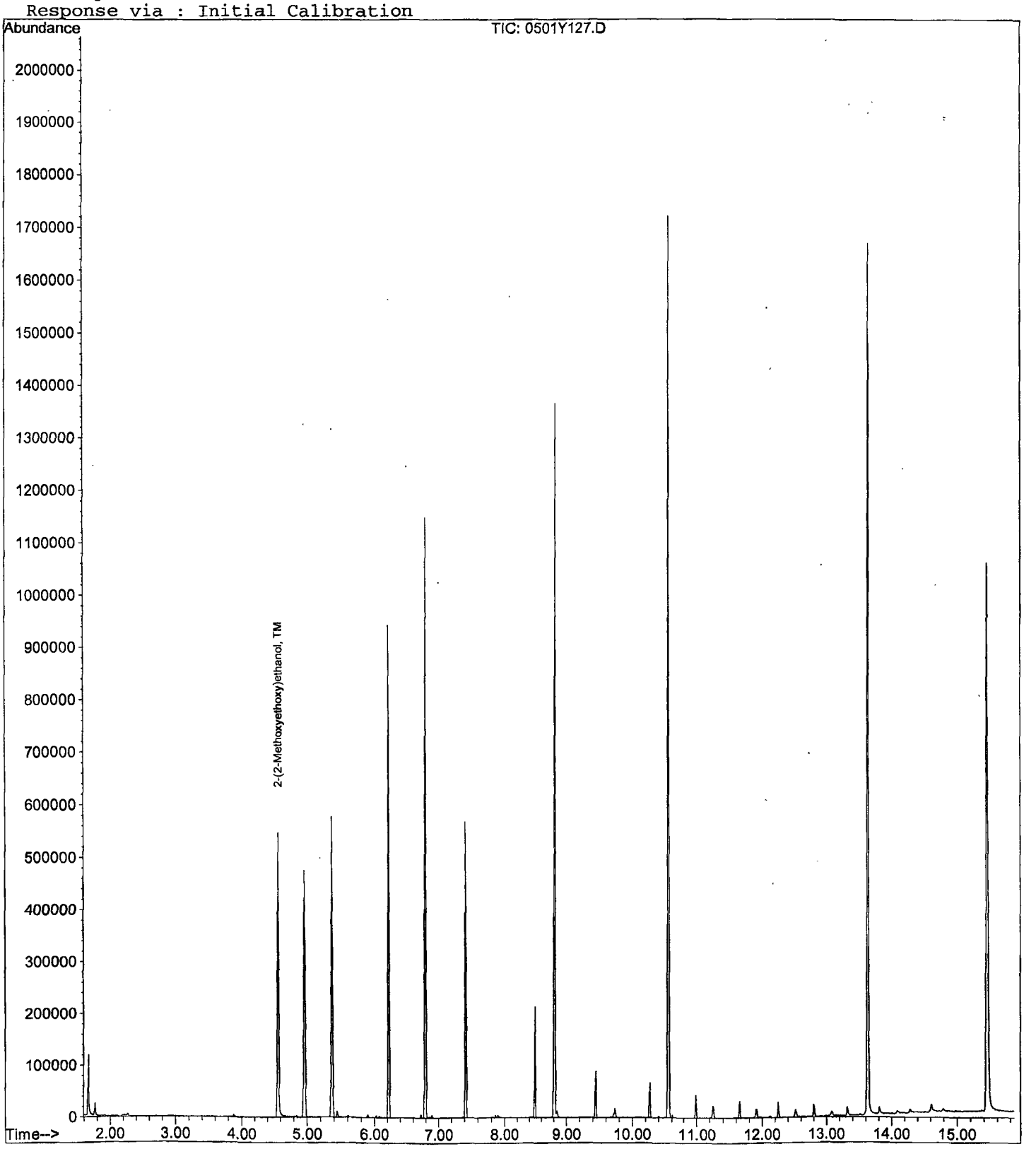
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y127.D Vial: 27
Acq On : 20 Oct 20 20:26 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:10 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y106.D Vial: 6
Acq On : 20 Oct 20 11:40 Operator: MA,SS
Sample : 201019A BLK 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 11:41 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 14 11:16:28 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.36	152	114420	40.00000	ppb	-0.01

System Monitoring Compounds

Target Compounds Qvalue

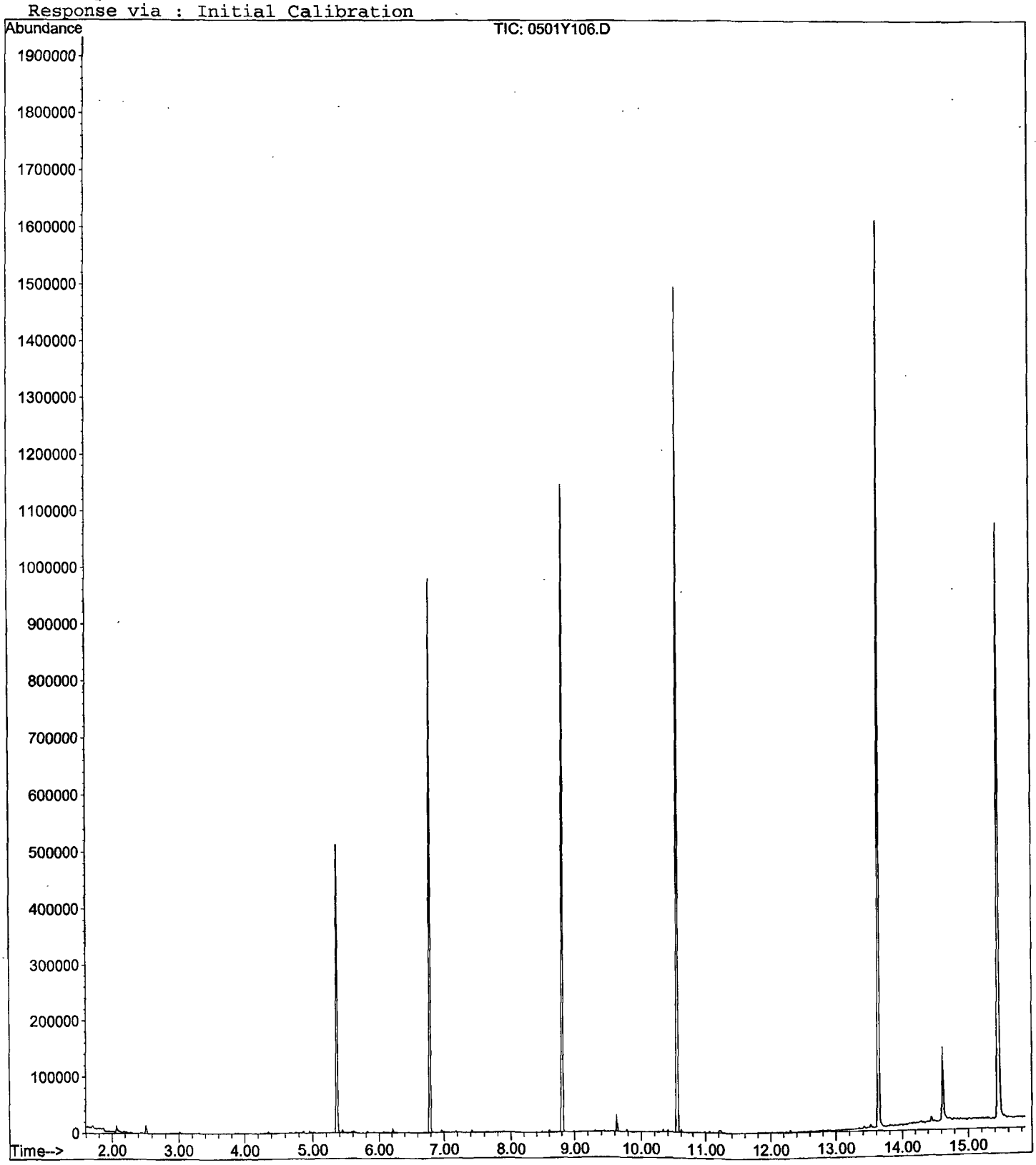
(#) = qualifier out of range (m) = manual integration
0501Y106.D YMEE0501.M Wed Oct 21 16:20:34 2020

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y106.D Vial: 6
Acq On : 20 Oct 20 11:40 Operator: MA,SS
Sample : 201019A BLK 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 11:41 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y114.D Vial: 14
Acq On : 20 Oct 20 15:17 Operator: MA,SS
Sample : 201019A LCS-1 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 15:12 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 20 14:12:00 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.36	152	181279	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.77	45	45520	63.83000	ppb	98

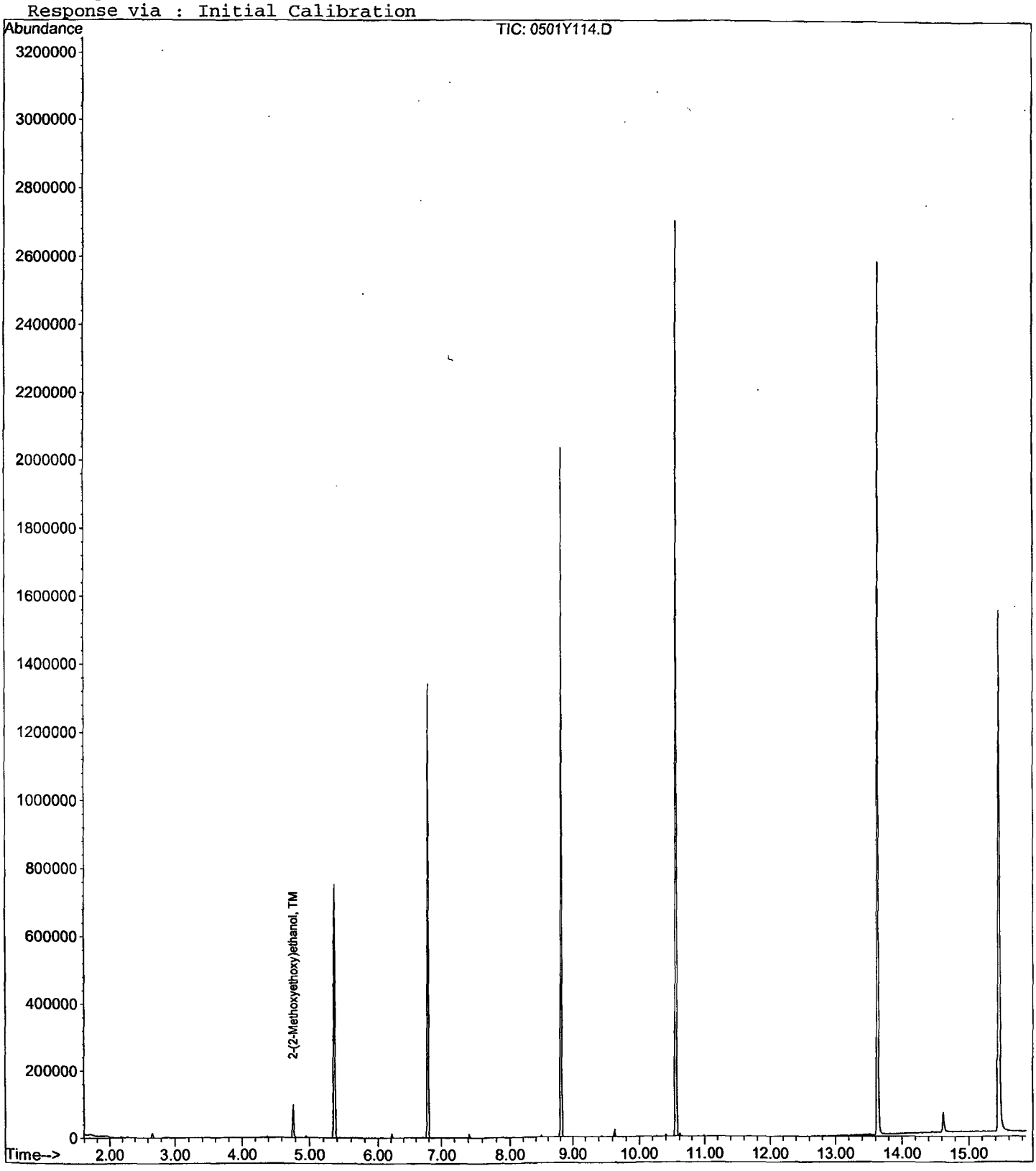
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y114.D Vial: 14
Acq On : 20 Oct 20 15:17 Operator: MA,SS
Sample : 201019A LCS-1 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 15:12 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y126.D Vial: 26
Acq On : 20 Oct 20 20:02 Operator: MA,SS
Sample : BA20268W12 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 20 14:12:00 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.35	152	105217	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds Qvalue

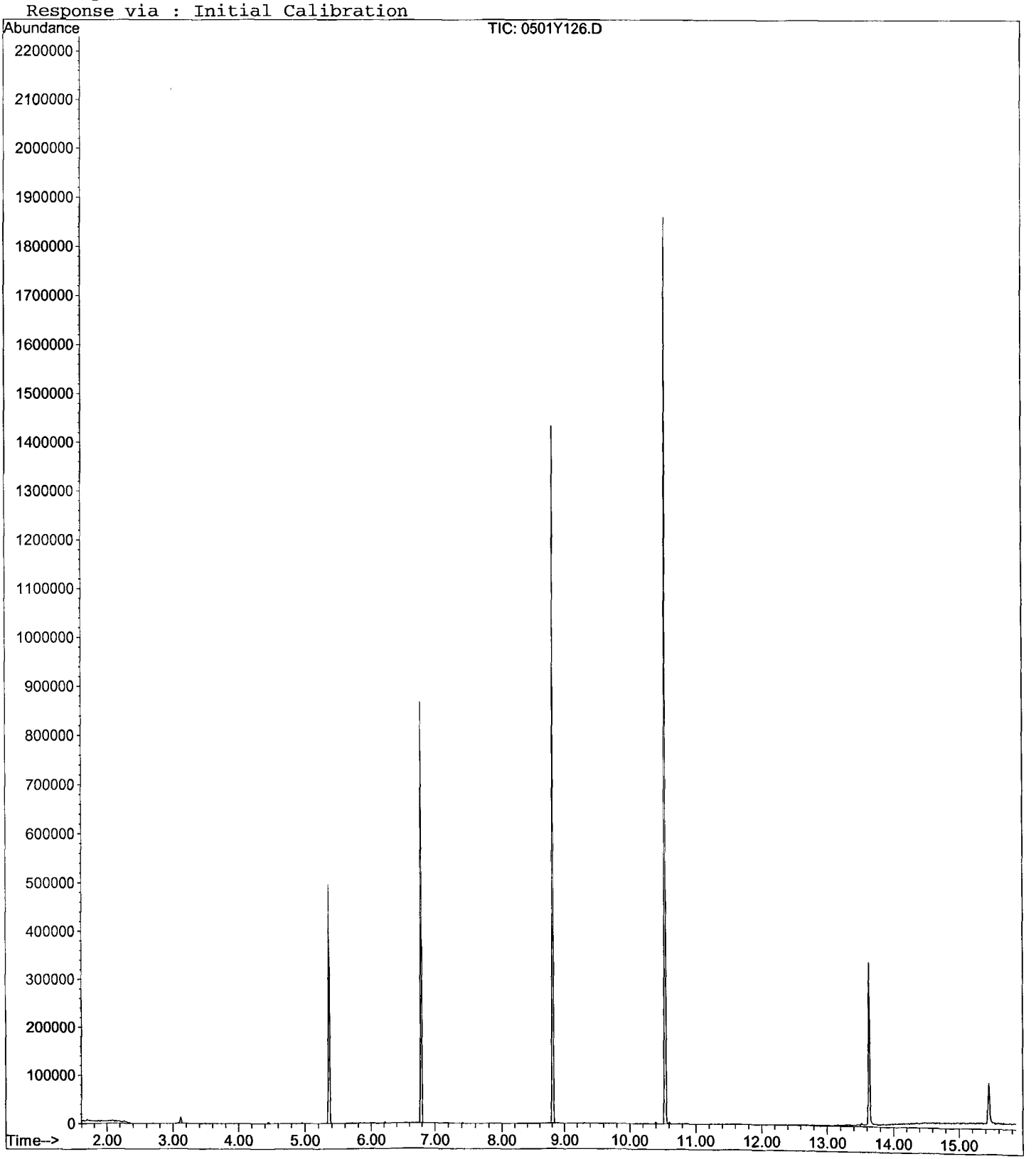
(#) = qualifier out of range (m) = manual integration
0501Y126.D YMEE0501.M Wed Oct 21 16:21:50 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y126.D Vial: 26
Acq On : 20 Oct 20 20:02 Operator: MA,SS
Sample : BA20268W12 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

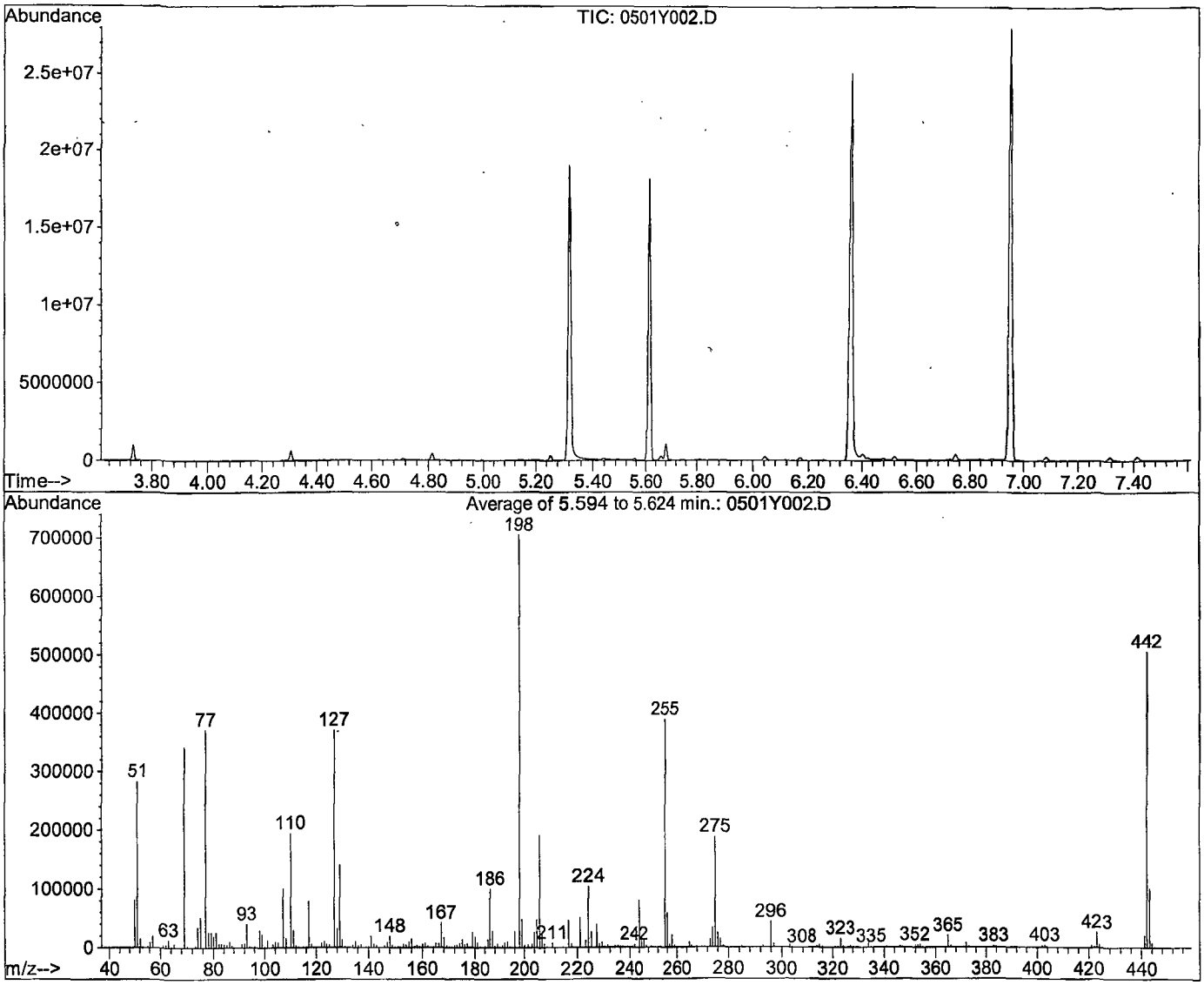
Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y200501M\0501Y002.D
Acq On : 1 May 20 9:23
Sample : SV TUNE 10/01/19
Misc : soil

Vial: 38
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C



Spectrum Information: Average of 5.594 to 5.624 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.1	283365	PASS
68	69	0.00	2	0.0	30	PASS
70	69	0.00	2	0.5	1711	PASS
127	198	10	80	52.5	370953	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	706767	PASS
199	198	5	9	6.8	48387	PASS
275	198	10	60	26.7	188525	PASS
365	198	1	100	2.8	20013	PASS
441	442	0.01	24	3.9	19955	PASS
442	198	50	500	71.6	506304	PASS
443	442	15	24	19.8	100283	PASS

Data File Name:	**0501Y002.D**
Data File Path:	**M:\YODA\DATA\Y200501M**
Operator:	**MA,SS**
Date Acquired:	**1 May 20 9:23**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/01/19**
Vial Number:	**38**
Instrument Name:	**Yoda**

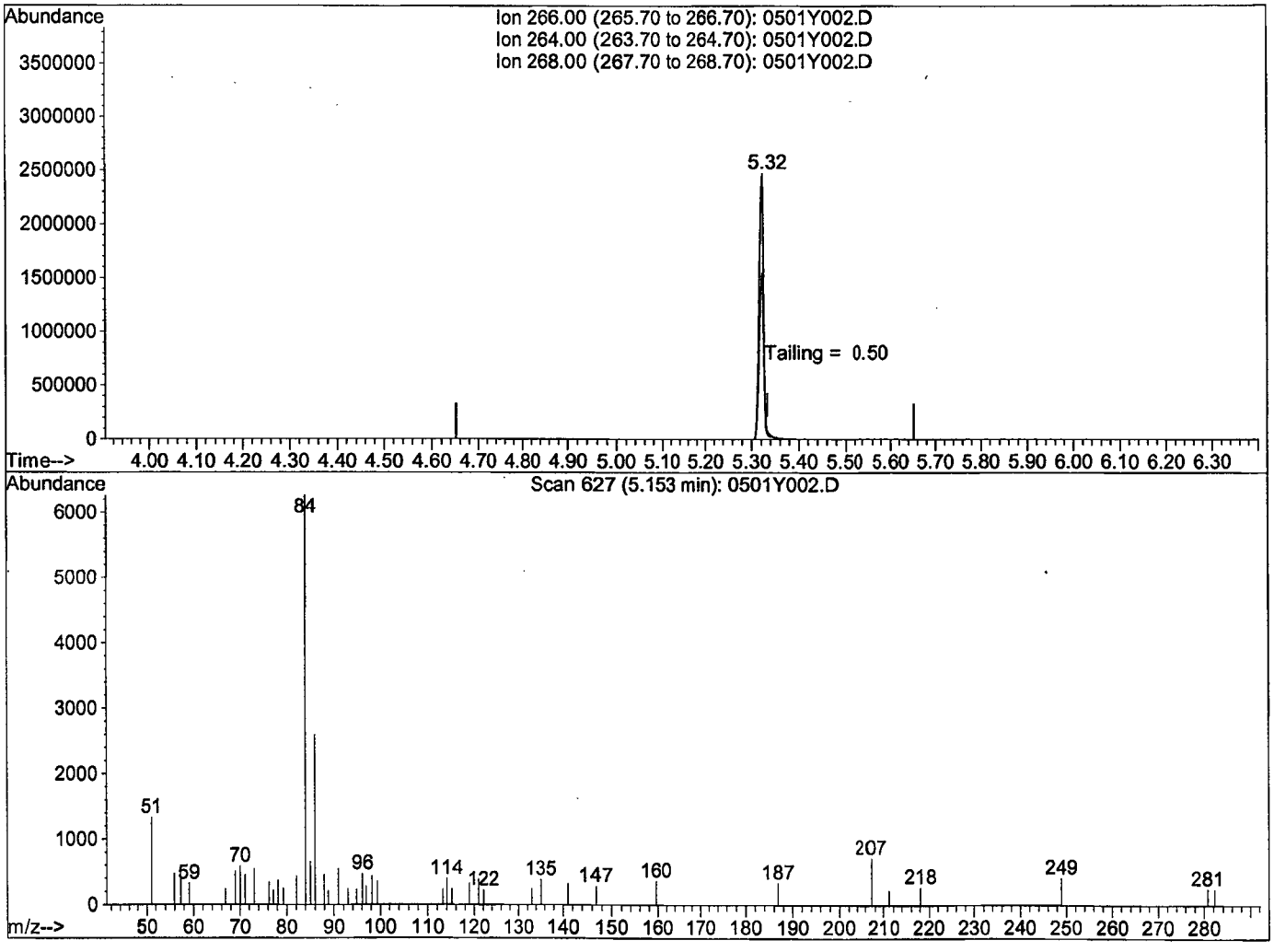
#	Name	Ret Time	Target Response
1)	DDT	6.95	212314000
2)	DDD	6.72	691986
3)	DDE	6.31	0

Breakdown **0.32**

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y002.D Vial: 38
Acq On : 1 May 20 9:23 Operator: MA,SS
Sample : SV TUNE 10/01/19 Inst : Yoda
Misc : soil Multiplr: 1.00
Quant Time: Aug 7 11:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 22 08:17:43 2020
Response via : Single Level Calibration



TIC: 0501Y002.D

(5) Pentachlorophenol

5.15min 0.0000

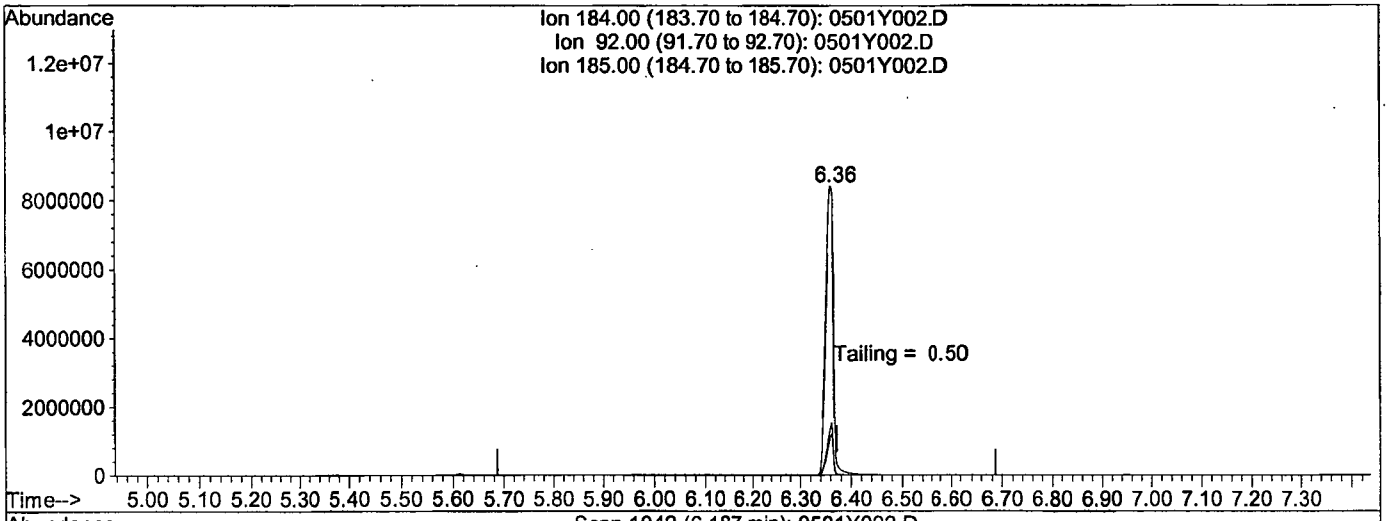
response 0

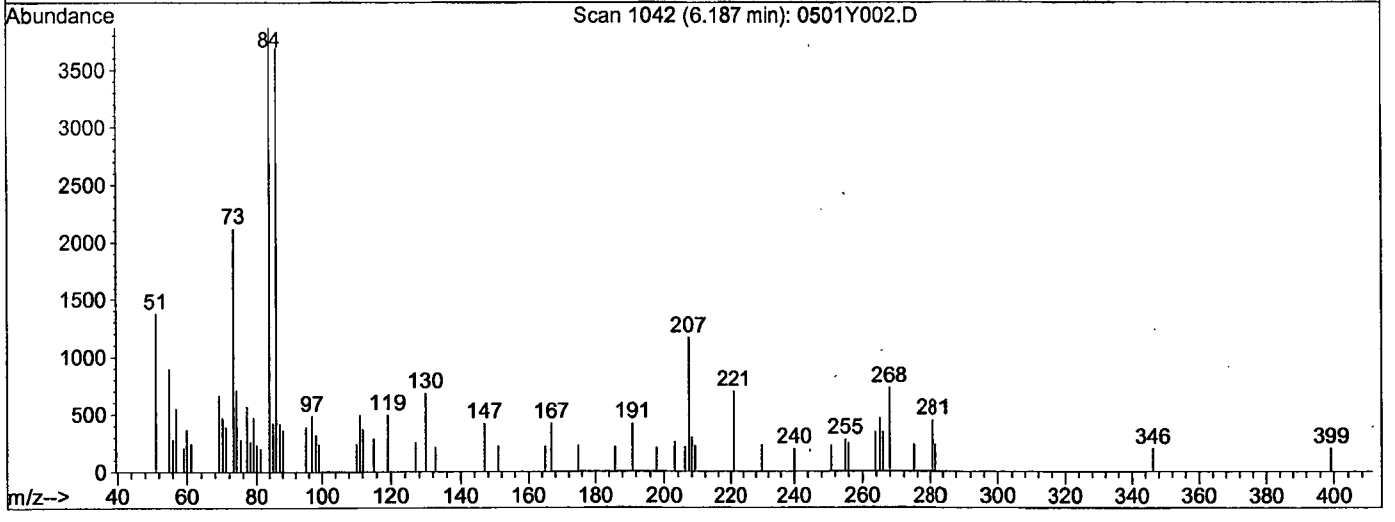
Ion	Exp%	Act%
266.00	100	0.00
264.00	63.90	0.00#
268.00	65.20	0.00#
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y002.D Vial: 38
Acq On : 1 May 20 9:23 Operator: MA,SS
Sample : SV TUNE 10/01/19 Inst : Yoda
Misc : soil Multiplr: 1.00
Quant Time: Aug 7 11:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 22 08:17:43 2020
Response via : Single Level Calibration





TIC: 0501Y002.D

(6) Benzidine

6.19min 0.0000

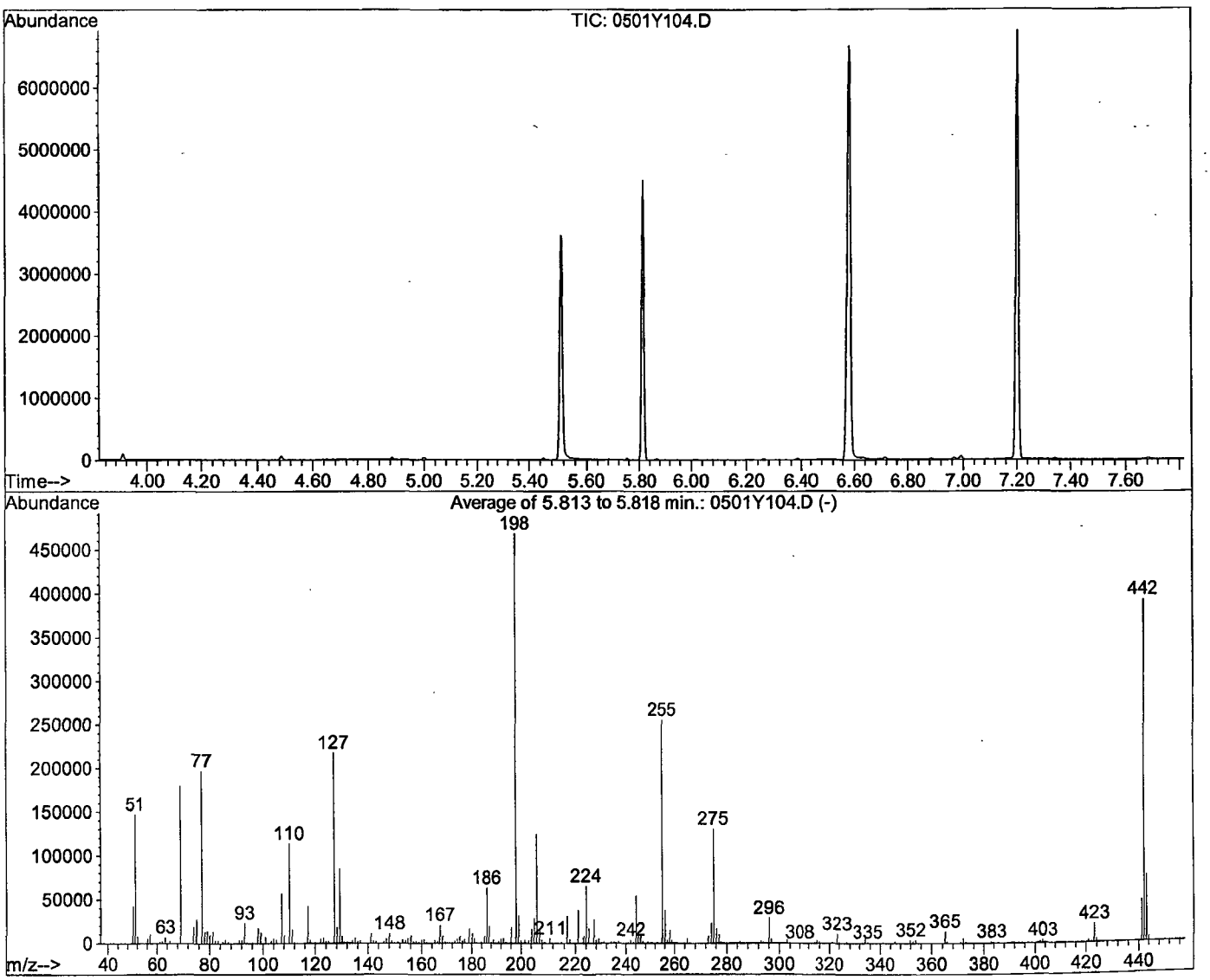
response 0

Ion	Exp%	Act%
184.00	100	0.00
92.00	10.00	0.00#
185.00	14.30	0.00#
0.00	0.00	0.00

DFTPP

Data File : M:\YODA\DATA\Y200501M\0501Y104.D Vial: 4
Acq On : 20 Oct 20 10:15 Operator: MA,SS
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 892, 893, 894; Background Corrected with Scan 883

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.4	146944	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.4	729	PASS
127	198	10	80	46.4	217408	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	468331	PASS
199	198	5	9	6.7	31184	PASS
275	198	10	60	27.9	130632	PASS
365	198	1	100	2.8	13214	PASS
441	442	0.01	24	12.2	47736	PASS
442	198	50	500	83.9	392768	PASS
443	442	15	24	19.3	75880	PASS

Data File Name:	**0501Y104.D**
Data File Path:	**M:\YODA\DATA\Y200501M**
Operator:	**MA,SS**
Date Acquired:	**20 Oct 2020 10:15**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**4**
Instrument Name:	**Yoda**

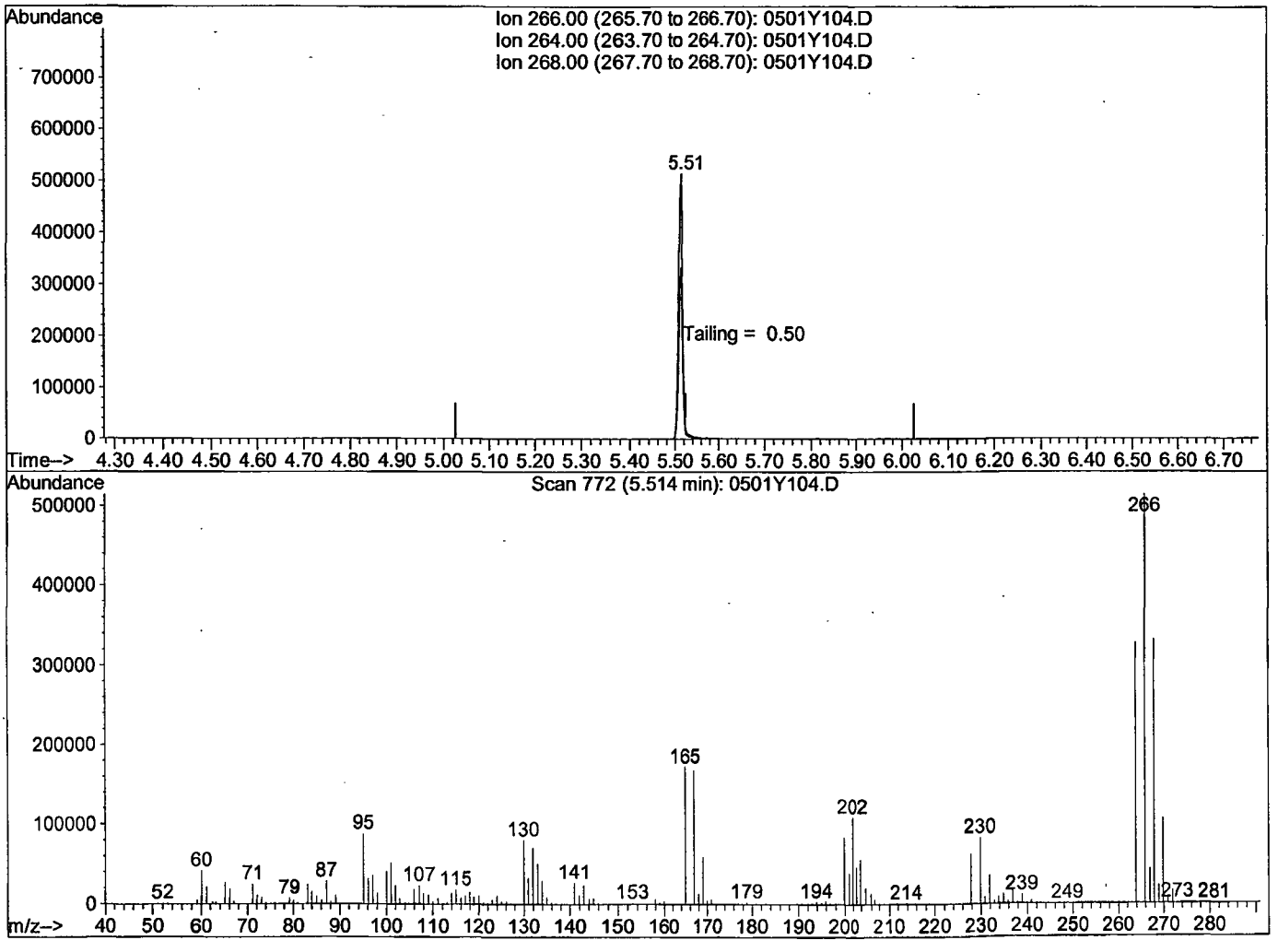
#	Name	Ret Time	Target Response
1)	DDT	7.26	49131900
2)	DDD	7.02	352113
3)	DDE	5.93	0

Breakdown **0.71**

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y104.D Vial: 4
Acq On : 20 Oct 20 10:15 Operator: MA,SS
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 20 10:17 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration



TIC: 0501Y104.D

(5) Pentachlorophenol

5.51min 0.0000

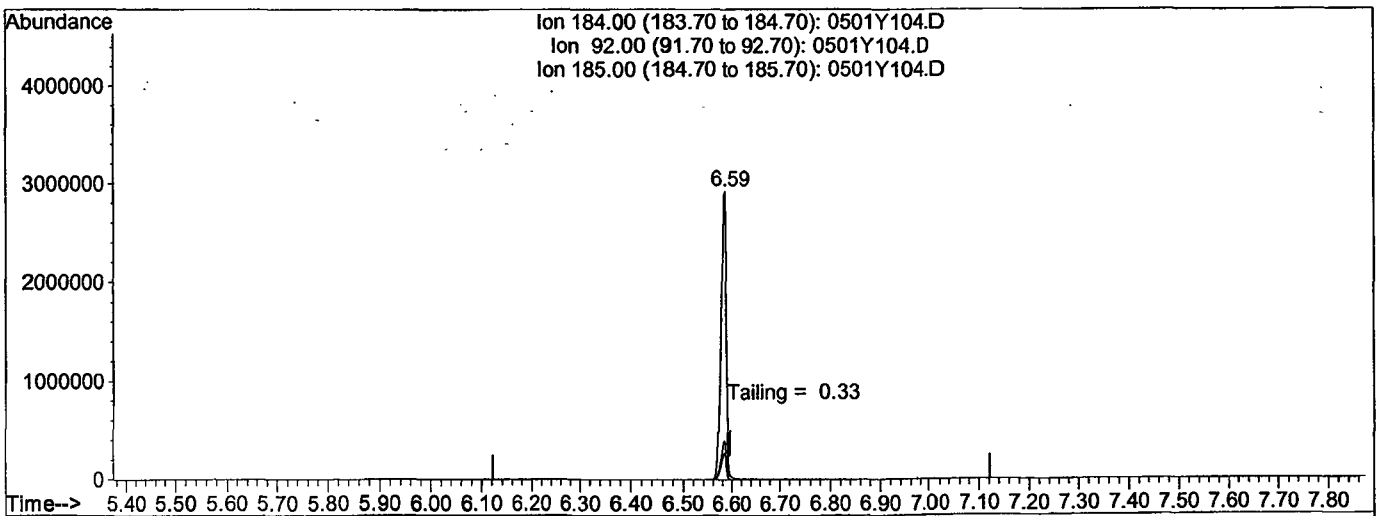
response 3372253

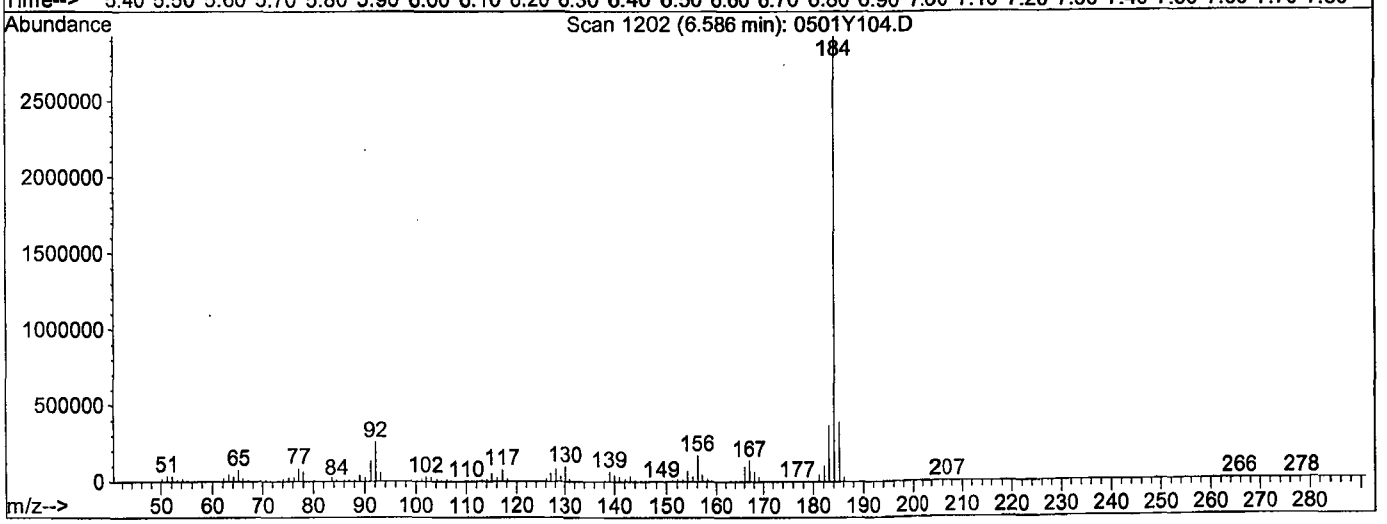
Ion	Exp%	Act%
266.00	100	100
264.00	63.10	61.56
268.00	65.40	62.84
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y104.D Vial: 4
Acq On : 20 Oct 20 10:15 Operator: MA,SS
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 20 10:17 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration





TIC: 0501Y104.D

(6) Benzidine

6.59min 0.0000

response 22878783

Ion	Exp%	Act%
184.00	100	100
92.00	8.50	9.22
185.00	13.80	13.71
0.00	0.00	0.00

Name of Final Standard MEE Curve **Prep'd By (Initials)** CD

Prep Date 05/01/20

Exp Date 11/06/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	5 uL	200uL	Methanol 195uL Lot# 235140	50 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	4 uL	"	"	"
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	5 uL	100uL	Methanol 95uL Lot# 235140	100 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	"	"	"
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	10 uL	100uL	Methanol 90uL Lot# 235140	200 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	"	"	"
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	20 uL	100uL	Methanol 80 uL Lot# 235140	400 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	"	"	"
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	50 uL	200 uL	Methanol 150 uL Lot# 235140	500 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	4 uL	"	"	"
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	30 uL	100uL	Methanol 70 uL Lot# 235140	600 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	"	"	"
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	40 uL	100uL	Methanol 60 uL Lot# 235140	800 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	"	"	"
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	50 uL	100uL	Methanol 50uL Lot# 235140	1000 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	"	"	"

Name of Final Standard MEE Second Source **Prep'd By (Initials)** MA

Prep Date 05/01/20

Exp Date 11/06/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	11/06/19	11/06/20	50 uL	200uL	Methanol 150uL Lot# 235140	500 ug/mL
SV Internal Standard	APPL	8277 Internal Standard	2000 ug/mL	03/03/20	03/03/21	4 uL	"	"	"

Name of Final Standard Diethylene Glycol

Prep Date 11/05/19

Exp Date 11/05/20

Prep'd By (Initials) MA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Diethylene glycol methyl ether	AccuStandard	S-72273	2000 ug/mL	218101558-39890	12/01/20	1.0 mL	2 mL	Methanol #208858	1000 ug/mL

Given to Extraction to do MEE M STD Stock (used for ICAL) Final concentration 2000ug/L

Name of Final Standard 2MEE Second Source Stock **Prep'd By (Initials)** JP

Prep Date 10/28/19
Exp Date 10/28/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	**7079100 - 39417**	**07/31/22**	0.1022g	10 mL	MC #56258	10220 ug/mL

Given to Extraction to do **MEE SS** (used for ICAL SS)
0.097ml were spiked in 500ml of water and extracted on 04/29/19 . Final concentration is 2000ug/L

Name of Final Standard	8270 Internal Standard Ampules (2)	Prep'd By (Initials)	MA
Prep Date	11/20/19		
Exp Date	11/20/20		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile Internal Standard	Restek	31206	2000 ug/mL	AO157142-49871,872,873	07/31/25	3 mL	3 mL	NA	2000ug/mL

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	201019A	Extraction Method	MWE2MEE	Units	mL

piked ID 1	Diethylene Glycol 4/29/20 ex 12/1/20		Surrogate ID 1		
piked ID 2			Surrogate ID 2		
piked ID 3			Surrogate ID 3		
piked ID 4			Surrogate ID 4		
piked ID 5			Surrogate ID 5		
piked ID 6			Sufficient Vol for Matrix QC:	YES	
piked ID 7			Ext. Start Time:	10/19/20 8:30	
piked ID 8			Ext. End Time:		
			GC Requires Extract By:		

pH1			Water Bath Temp 1 °C	
pH2			Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: DL **Date** 10/20/20 11:45:20 AM **Witnessed By:** CFM **Date** 10/20/20 11:45:28 AM

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201019A Blk				NA	NA equip	500	2	7	10/19/20 8:30	
2	201019A LCS-1		0.040	1	NA	NA equip	500	2	7	10/19/20 8:30	
3	BA20023	BA20023W12			NA	NA equip	500	2	7	10/19/20 8:30	93704
4	BA20025	BA20025W12			NA	NA equip	500	2	7	10/19/20 8:30	93704
5	BA20054 MS-1	BA20054W16	0.040	1	NA	NA equip	500	2	7	10/19/20 8:30	93719
6	BA20054 MSD-1	BA20054W19	0.040	1	NA	NA equip	500	2	7	10/19/20 8:30	93719
7	BA20054	BA20054W15			NA	NA equip	500	2	7	10/19/20 8:30	93719
8	BA20055	BA20055W05			NA	NA equip	500	2	7	10/19/20 8:30	93719
9	BA20057	BA20057W11			NA	NA equip	500	2	7	10/19/20 8:30	93719
10	BA20058	BA20058W06			NA	NA equip	500	2	7	10/19/20 8:30	93719
11	BA20060	BA20060W12			NA	NA equip	500	2	7	10/19/20 8:30	93719
12	BA20062	BA20062W10			NA	NA equip	500	2	7	10/19/20 8:30	93719
13	BA20064	BA20064W10			NA	NA equip	500	2	7	10/19/20 8:30	93719
14	BA20184	BA20184W12			NA	NA equip	500	2	7	10/19/20 8:30	93740
15	BA20186	BA20186W10			NA	NA equip	500	2	7	10/19/20 8:30	93740
16	BA20188	BA20188W12			NA	NA equip	500	2	7	10/19/20 8:30	93740

Solvent and Lot#	
ENVIRO-CLEAN CARTRIDGES	50193-E
PH Strip	HC904495
Di Water	10/19/20
Methanol:DCM 80:20 PREP	8/4/20

Extraction COC Transfer	
Extraction lab employee Initials	CFM
GC analyst's initials	MA
Date	10/20/20
Time	11:00
Refrigerator	GC_C

	Technician's Initials
Scanned By	CFM
Sample Preparation	DL
Extraction	DL
Concentration	DL/KY

Modified	10/19/20 7:46:55 AM

Reviewed By: MA **Date** 10/19/20

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	201019A	Extraction Method	MWE2MEE	Units	mL

Spiked ID 1	Diethylene Glycol 4/29/20 ex 12/1/20		Surrogate ID 1		
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/19/20 8:30	
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:		

pH1			Water Bath Temp 1 °C	
pH2			Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: DL **Date** 10/20/20 11:45:20 AM **Witnessed By:** CFM **Date** 10/20/20 11:45:28 AM

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	BA20190	BA20190W11			NA	NA equip	500	2	7	10/19/20 8:30	93740
18	BA20268	BA20268W12			NA	NA equip	500	2	7	10/19/20 8:30	93765

Solvent and Lot#	
ENVIRO-CLEAN CARTRIDGES	50193-E
PH Strip	HC904495
Di Water	10/19/20
Methanol:DCM 80:20 PREP	8/4/20

Extraction COC Transfer	
Extraction lab employee Initials	CFM
GC analyst's initials	MA
Date	
Time	
Refrigerator	GC_C

	Technician's Initials
Scanned By	CFM
Sample Preparation	DL
Extraction	DL
Concentration	DL/KY

Modified	10/19/20 7:46:55 AM

Reviewed By: MA **Date** 10/19/20

Injection Log

Directory: M:\YODA\DATA\Y200501M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
38	0501Y002.D	1	SV TUNE 10/01/19	soil	1 May 20 9:23
39	0501Y003.D	1	50ug/ml MEE 05/01/20	soil	1 May 20 9:39
40	0501Y004.D	1	100ug/ml MEE 05/01/20	soil	1 May 20 10:03
42	0501Y006.D	1	200ug/ml MEE 05/01/20	soil	1 May 20 10:51
7	0501Y007.D	1	400ug/ml MEE 05/01/20	soil	1 May 20 11:24
8	0501Y008.D	1	500ug/ml MEE 05/01/20	soil	1 May 20 11:48
9	0501Y009.D	1	600ug/ml MEE 05/01/20	soil	1 May 20 12:13
10	0501Y010.D	1	800ug/ml MEE 05/01/20	soil	1 May 20 12:37
11	0501Y011.D	1	1000ug/ml MEE 05/01/20	soil	1 May 20 13:01
13	0501Y013.D	1	SSug/ml MEE 05/01/20	soil	1 May 20 13:50
4	0501Y104.D	1	SV TUNE 10/02/20		20 Oct 20 10:15
5	0501Y105.D	1	500ug/ml MEE 05/01/20 (1)		20 Oct 20 10:57
6	0501Y106.D	1	201019A BLK 2/500		20 Oct 20 11:40
14	0501Y114.D	1	201019A LCS-1 2/500		20 Oct 20 15:17
22	0501Y122.D	1	BA20184W12 2/500		20 Oct 20 18:28
23	0501Y123.D	1	BA20186W10 2/500		20 Oct 20 18:52
24	0501Y124.D	1	BA20188W12 2/500		20 Oct 20 19:15
25	0501Y125.D	1	BA20190W11 2/500		20 Oct 20 19:39
27	0501Y127.D	1	500ug/ml MEE 05/01/20 (2)		20 Oct 20 20:26

ORGANICS

Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc SDG No:
Case No. Initial Cal Date: 10/16/20
Matrix: Water Instrument: ZEUS Initials: CH

			1016Z30 D	1016Z31 D	1016Z32 D	1016Z33 D	1016Z34 D	1016Z35 D	1016Z36.D	1016Z37 D	1016Z38 D							
		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
1	I	*Fluorobenzene (IS)*																
2	TM	Chlorotrifluoroethene													TM			
3	TML	Dichlorodifluoromethane		0.0405	0.0405	0.0404	0 0262	0.0306	0.0301	0.0296	0.0300		0.03	18	TM	1.000		
4	TMQ	Freon 114		0.0716	0.0571	0.0516	0.0245	0.0299	0.0351				0.04	40	TM	0.996		
5	TM**	Chloromethane		0.1685	0.1549	0.1603	0.1113	0.1282	0.1248	0.1306	0.1278		0.14	15	TM**			
6	TM*	Vinyl chloride		0.1122	0.1195	0.1199	0.0900	0.1046	0.1037	0.1098	0.1136		0.11	9.0	TM*			
7		Butane																
8	TM	2-Chloro-1,1,1-trifluoroethane													TM			
9	TM	Bromomethane		0.0426	0.0418	0.0408	0.0306	0.0319					0.04	15	TM			
10	TML	Chloroethane		0.1065	0.0657	0.0491	0.0348	0.0374	0.0391				0.06	50	TM	0.995		
11	TM	Dichlorofluoromethane		0.2620	0.2277	0.2244	0.1848	0.1886	0.1897	0.1764			0.21	15	TM			
12	TM	Trichlorofluoromethane		0.1778	0.1784	0.1774	0.1320	0.1520	0.1470	0.1470	0.1271		0.15	13	TM			
13	TM	Pentane													TM			
14	TM	Diethyl ether													TM			
15	TM	1,2 Dichlorotrifluoroethane													TM			
16	TM	Acrolein		0.0117	0.0117	0.0125	0.0122	0.0113	0.0117	0.0126	0.0104		0.01	6.1	TM			
17	TM	Acetone	0.0536	0.0471	0.0425	0.0432	0.0423	0.0379	0.0385	0 0418	0.0412		0.04	11	TM			
18	TML	Freon-113		0.1292	0.1197	0.1165	0.0718	0.0801	0.1008	0.1013	0.1061		0.10	19	TM	0.999		
19	TM*	1,1-DCE		0.1771	0.1749	0 1822	0.1400	0.1400	0.1579	0.1648	0.1673		0.16	9.9	TM*			
20	TM	2-Propanol													TM			
21	TM	Acetonitrile		0.0057	0.0057	0.0057	0.0050	0.0047	0.0045	0.0043			0.01	12	TM			
22	TM	t-Butanol	0.0044	0.0045	0.0046	0.0048	0.0049	0.0045	0.0045	0.0048			0.00	4.4	TM			
23	TM	Methyl Acetate		0.1403	0.1211	0.1196	0.1085	0.0944	0.1001	0.1118	0.1159		0.11	12	TM			
24	TML	Iodomethane		0.0488	0.0548	0.0628	0.0538	0.0768	0.0970	0.1102			0.07	33	TM	0.993		
25	TM	Acrylonitrile		0.0446	0.0483	0.0487	0.0467	0.0413	0.0447	0.0469	0.0468		0.05	5.3	TM			
26	TML	Methylene chloride		0.2915	0.2966	0.2584	0.1591	0.1322	0.1334	0 1329	0.1264		0.19	40	TM	1.000		
27	TML	Carbon disulfide		0.2018	0.1766	0.1710	0.1249	0.1277	0.1499	0.1578	0.1576		0.16	16	TM	1.000		
28	TM	Methyl t-butyl ether (MtBE)		0 2319	0.2386	0.2627	0.2450	0 2514	0.2724	0.2979	0.3062		0.26	10	TM			
29	TM	Trans-1,2-DCE		0.1751	0.1724	0.1733	0.1428	0.1428	0.1548	0.1612	0.1624		0.16	8.1	TM			
30	TM	Hexane													TM			
31	TM	Diisopropyl Ether		0.3096	0.3084	0.3438	0.3246	0.3384	0.3798	0.4113	0.4178		0.35	12	TM			
32	TM**	2,2-Dichloro-1,1,1-trifluoroethane													TM**			
33	TM**	1,1-DCA		0.2226	0.2181	0.2163	0.1914	0.1917	0.2000	0.2082	0.2078		0.21	5.7	TM**			
34	TM	Vinyl Acetate		0.1682	0.1761	0.1596	0.1484	0.1825	0.1768	0.1935	0.2171		0.18	12	TM			
35	TML	Ethyl tert Butyl Ether		0.2245	0.2348	0.2635	0.2611	0.2688	0.3091	0.3403	0.3551		0.28	17	TM	0.999		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal Date: 10/16/20
Matrix: Water Instrument: ZEUS Initials: CH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
36	TM	MEK (2-Butanone)	0.0460	0.0485	0.0478	0.0536	0.0580	0.0517	0.0561	0.0651	0.0670		0.05	14	TM			
37	TM	Cis-1,2-DCE		0.1992	0 1924	0.1957	0 1701	0.1714	0.1810	0.1881	0 1848		0.19	5.8	TM			
38	TM	2,2-Dichloropropane		0.1398	0.1312	0.1434	0.1202	0.1231	0.1367	0.1465	0.1488		0.14	7.8	TM			
39	TM	2-Methylpentane													TM			
40	TM	3-Methylpentane													TM			
41	TM*	Chloroform		0.2174	0 2111	0.2114	0 1824	0 1857	0.1954	0.2019	0 1984		0.20	6.2	TM*			
42	TM	Bromochloromethane		0.1122	0.1057	0 1144	0.0971	0.0986	0.1011	0.1047	0 1029		0.10	5.9	TM			
43	S	Dibromofluoromethane(S)	0 1946	0.1976	0.2355	0.2373	0.2558	0.2587	0.2612	0.2594	0.2525		0.24	11	S			
44	TM	1,1,1-TCA		0.1734	0.1630	0.1677	0 1409	0 1411	0.1578	0 1635	0.1654		0.16	7.5	TM			
45	TML	Cyclohexane		0.1881	0.1777	0 1770	0.1197	0 1385	0.1797	0.1896	0 2003		0.17	16	TM	0.999		
46	TM	1,1-Dichloropropene		0.1613	0.1443	0.1514	0 1277	0.1256	0.1464	0.1535	0.1540		0.15	8.7	TM			
47	TML	2,2,4-Trimethylpentane		0.3422	0.3442	0.3733	0.2416	0 2959	0 3657	0.3926	0.4248		0.35	16	TM	0.998		
48	S	1,2-DCA-D4(S)	0.2125	0.2082	0.2482	0.2544	0 2678	0.2673	0.2664	0.2632	0.2547		0.25	9.2	S			
49	TM	Carbon Tetrachloride		0.1360	0.1412	0 1362	0.1069	0.1125	0 1276	0.1365	0.1417		0.13	10	TM			
50	TML	Tert Amyl Methyl Ether		0.1976	0.2034	0.2285	0.2262	0.2367	0 2698	0.2995	0.3144		0.25	17	TM	0.999		
51	TM	Methylcyclopentane		0.0169	0.0216	0.0227	0.0209	0.0199	0.0201	0.0193	0.0179		0.02	9.6	TM			
52	TM	1,2-DCA		0.1663	0.1661	0.1627	0.1424	0.1394	0.1417	0.1440	0.1419		0.15	8.0	TM			
53	TM	Benzene		0.5281	0.5057	0.5335	0.4547	0.4491	0.4770	0.4920	0.4746		0.49	6.4	TM			
54	TM	TCE		0.1490	0.1374	0.1477	0.1257	0.1201	0.1318	0.1380	0.1401		0.14	7.4	TM			
55	TM	2-Pentanone		0.0651	0.0685	0 0781	0.0869	0.0791	0 0866				0.08	12	TM			
56	TM*	1,2-Dichloropropane		0.1257	0.1177	0.1299	0.1127	0.1125	0.1174	0.1217	0.1185		0.12	5.0	TM*			
57	TM	Bromodichloromethane		0.1165	0.1229	0.1248	0.1130	0.1185	0.1301	0.1402	0.1447		0.13	8.9	TM			
58	TM	Methyl Cyclohexane		0.1911	0.1926	0.2040	0.1277	0.1487	0.1843	0.1913	0.1972		0.18	15	TM			
59	TM	Dibromomethane		0.0859	0.0777	0.0842	0.0727	0.0741	0.0770	0.0817	0.0814		0.08	5.9	TM			
60	TMQ	MIBK (methyl isobutyl ketone	0.0698	0.0746	0.0800	0.0924	0.1003	0.0939	0.1023	0.1209			0.09	18	TM	0.996		
61	TM	1-Bromo-2-chloroethane		0.0168	0.0182	0.0195	0 0179	0.0170	0.0184	0.0205	0.0207		0.02	8.0	TM			
62	TM	2-Chloroethyl vinyl ether													TM			
63	TML	Cis-1,3-Dichloropropene		0.1284	0.1272	0.1468	0.1373	0 1466	0.1648	0.1844	0.1931		0 15	16	TM	0.999		
64	TM*	Toluene		0.4985	0.5131	0.5222	0.4728	0.4517	0.4913	0.5137	0.5054		0.50	4.8	TM*			
65	TML	Trans-1,3-Dichloropropene		0.0984	0.1059	0.1166	0.1112	0.1207	0.1390	0.1535	0.1622		0.13	18	TM	0.999		
66	TM	1,1,2-TCA		0.0897	0.0977	0.1022	0.0918	0.0932	0.0994	0.1062	0.1073		0.10	6.7	TM			
67	TMQ	2-Hexanone	0.0475	0.0499	0.0542	0.0626	0.0685	0.0634	0.0687	0.0817			0.06	18	TM	0.995		
68	I	Chlorobenzene-D5 (IS)																
69	S	Toluene-D8(S)	0.9669	0.9810	1.206	1.231	1.362	1.363	1.380	1.380	1.287		1.2	13	S			
70	TM	1,2-EDB		0.1280	0.1274	0.1374	0 1347	0.1345	0.1464	0.1578	0.1626		0.14	9.4	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/16/20
Matrix: Water Instrument: ZEUS Initials: CH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
71	TM	Tetrachloroethene		0.2011	0 1885	0 1914	0.1668	0.1663	0.1815	0 1882	0.1878		0.18	6.5	TM			
72	TM	1-Chlorohexane		0.2937	0.2470	0 2482	0.1868	0.1931	0.2225	0.2327	0.2368		0.23	14	TM			
73	TM	1,1,1,2-Tetrachloroethane		0.1082	0 1177	0.1304	0.1312	0.1365	0 1511	0.1652			0.13	14	TM			
74	TM	m&p-Xylene		0.5102	0.5077	0.5532	0.5309	0.5373	0.5809	0.5939	0 5613		0.55	5.7	TM			
75	TM	o-Xylene		0.4876	0.4828	0.5194	0.5110	0.5417	0.5929	0.6134	0 5965		0.54	9.5	TM			
76	TML	Styrene		0.3294	0.3164	0 3768	0 3942	0.4268	0.4779	0.5125			0.40	18	TM	0.998		
77	SL	4-Bromofluorobenzene(S)	0.3194	0.3165	0.3990	0 4081	0.4706	0.4745	0.4859	0.4926	0 4783		0.43	16	S	0.999		
78	TM	1,3-Dichloropropane		0.2347	0.2248	0.2403	0.2318	0.2313	0.2455	0.2603	0.2562		0.24	5.2	TM			
79	TML	Dibromochloromethane		0.1001	0.1172	0 1177	0.1142	0.1222	0.1406	0.1564	0.1702		0.13	18	TM	0.998		
80	TM**	Chlorobenzene		0.5112	0.4998	0 4969	0.4435	0.4433	0.4726	0 4845	0.4663		0.48	5.3	TM**			
81	TM*	Ethylbenzene		0.7556	0 7067	0 7489	0.6925	0.7039	0.7723	0.8101	0.8051		0.75	6.1	TM*			
82	TM**L	Bromoform		0.0571	0 0659	0.0699	0.0690	0.0728	0.0891	0.1066			0.08	22	TM**	0.991		
83	I	1,4-Dichlorobenzene-D (IS)																
84	TML	Isopropylbenzene		1.068	1.039	1.142	1.140	1.209	1.390	1.502	1.587		1.3	16	TM	0.999		
85	TM**	1,1,2,2-Tetrachloroethane		0.3034	0.2882	0.3131	0.3120	0.3015	0.3383	0 3729	0.3940		0.33	11	TM**			
86	TM	1,2,3-Trichloropropane		0.0859	0.0944	0.1013	0.1028	0.1005	0.1073	0.1196	0.1295		0.11	13	TM			
87	TML	t-1,4-Dichloro-2-Butene			0.0643	0 0661	0.0706	0.0669	0.0795	0.0956	0.1061		0.08	21	TM	0.997		
88	TM	Bromobenzene		0.5828	0.5927	0 6083	0.5848	0.5813	0.6231	0.6696	0 7188		0.62	8.0	TM			
89	TM	n-Propylbenzene		1.368	1.422	1.540	1.480	1.527	1.729	1.830	1.889		1.6	12	TM			
90	TM	4-Ethyltoluene		1.073	1.144	1.298	1.275	1.325	1.481	1 554	1.610		1.3	14	TM			
91	TM	2-Chlorotoluene		1.014	1 025	1.070	1.019	1.036	1.138	1.191	1.261		1.1	8.5	TM			
92	TM	1,3,5-Trimethylbenzene		0.8324	0 9614	1.058	1.059	1.092	1 217	1 269	1.266		1.1	14	TM			
93	TM	4-Chlorotoluene		0.9425	1.047	1 103	1.061	1.063	1.160	1.199	1.204		1.1	8.1	TM			
94	TML	Tert-Butylbenzene		0.7386	0.7817	0.8529	0.8503	0.9041	1.040	1.125	1.178		0.93	17	TM	0.999		
95	TML	1,2,4-Trimethylbenzene		0.7892	0.8356	0.9741	1.050	1.108	1.222	1.295	1.350		1.1	19	TM	1.000		
96	TML	Sec-Butylbenzene		1.155	1.228	1.377	1.337	1 426	1.641	1.725	1.790		1.5	16	TM	1.000		
97	TM	p-Isopropyltoluene		1.084	1.065	1.195	1.165	1.213	1.372	1.445	1.479		1.3	13	TM			
98	TML	Benzyl Chloride		0.3151	0.3122	0.3245	0.3136	0.3798	0.4666	0.5676	0.6730		0.42	33	TM	0.994		
99	TM	1,3-DCB		0.6988	0.6740	0.7313	0.6594	0.6672	0.7192	0.7493	0 7815		0.71	6.1	TM			
100	TM	1,4-DCB		0.7686	0.7539	0 7859	0.7042	0.6832	0.7370	0.7618	0.7909		0.75	5.1	TM			
101	TML	n-Butylbenzene		0.8848	0.8591	1.009	1.006	1.108	1.307	1.367	1.359		1.1	19	TM	1.000		
102	TM	1,2-DCB		0.6137	0.6268	0.6611	0.6226	0.6241	0.6785	0 7002	0.6977		0.65	5.5	TM			
103	TML	Hexachloroethane		0.1091	0.1033	0.1134	0.1106	0.1344	0.1587	0.1867	0.2225		0.14	31	TM	0.995		
104	TML	1,2-Dibromo-3-chloropropane		0.0454	0 0511	0 0551	0.0585	0.0604	0.0674	0 0828	0.0945		0.06	26	TM	0.996		
105	TML	1,2,4-Trichlorobenzene		0.3250	0.3305	0.3691	0.3641	0.3779	0.4519	0.4875	0 5127		0.40	18	TM	0.999		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/16/20
Matrix: Water Instrument: ZEUS Initials CH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
106	TM	Hexachlorobutadiene		0.1860	0.1807	0.1899	0.1758	0.1846	0.2140	0.2263	0 2343		0.20	11	TM			
107	TML	Naphthalene		0.5724	0.6182	0.7115	0.8074	0.8933	1 079	1.244	1.309		0.90	31	TM	0.999		
108	TML	1,2,3-Trichlorobenzene		0.2869	0.3147	0.3485	0.3576	0.3661	0 4157	0.4430	0.4563		0.37	16	TM	1.000		
109																		
110																		
111																		
112																		
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Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z30.D
Acq On : 16 Oct 20 16:48
Sample : 0.3ug/L VOC STD 10/16/20
Misc :

Vial: 4
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1697466	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1181869	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	655069	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	66061	4.07	ppb		0.00
Spiked Amount 25.000			Recovery = 16.272%				
48) 1,2-DCA-D4(S)	4.78	65	72155	4.26	ppb		0.00
Spiked Amount 25.000			Recovery = 17.060%				
69) Toluene-D8(S)	6.44	98	228546	3.90	ppb		0.00
Spiked Amount 25.000			Recovery = 15.596%				
77) 4-Bromofluorobenzene(S)	8.83	95	75489	4.55	ppb		0.00
Spiked Amount 25.000			Recovery = 18.216%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	603	0.20	ppb		80
4) Freon 114	1.29	85	1093	-1.42	ppb		92
5) Chloromethane	1.37	50	3445	0.37	ppb	#	69
6) Vinyl chloride	1.43	62	2184	0.29	ppb		96
9) Bromomethane	1.70	94	814	0.32	ppb	#	80
10) Chloroethane	1.80	64	1706	0.20	ppb	#	80
11) Dichlorofluoromethane	1.99	67	4596	0.33	ppb		92
12) Trichlorofluoromethane	2.04	101	2999	0.29	ppb		95
16) Acrolein	2.43	55	6746	8.43	ppb		89
17) Acetone	2.58	43	18198	6.22	ppb		93
18) Freon-113	2.55	101	2129	1.15	ppb		90
19) 1,1-DCE	2.53	61	3250	0.29	ppb	#	83
21) Acetonitrile	2.83	40	3368	9.73	ppb		81
22) t-Butanol	3.12	59	2977	9.51	ppb		98
23) Methyl Acetate	2.90	43	3206	0.41	ppb	#	75
24) Iodomethane	2.65	142	995	1.62	ppb	#	85
25) Acrylonitrile	3.19	52	711	0.23	ppb	#	81
27) Carbon disulfide	2.70	76	3719	0.87	ppb		99
28) Methyl t-butyl ether (MtBE	3.25	73	4606	0.26	ppb		99
29) Trans-1,2-DCE	3.22	61	2949	0.27	ppb	#	91
31) Diisopropyl Ether	3.69	45	5706	0.24	ppb		87
33) 1,1-DCA	3.59	63	4351	0.31	ppb	#	86
34) Vinyl Acetate	3.65	43	3004	0.25	ppb		97
35) Ethyl tert Butyl Ether	4.00	59	4659	1.46	ppb	#	75
36) MEK (2-Butanone)	4.12	43	15613	4.19	ppb		99
37) Cis-1,2-DCE	4.09	61	4340	0.34	ppb		98
38) 2,2-Dichloropropane	4.09	77	2886	0.31	ppb		96
41) Chloroform	4.37	83	5641	0.41	ppb		94
42) Bromochloromethane	4.29	49	2152	0.30	ppb		90
44) 1,1,1-TCA	4.53	97	3123	0.29	ppb		98
45) Cyclohexane	4.58	56	3259	1.57	ppb		89
46) 1,1-Dichloropropene	4.67	75	2508	0.25	ppb	#	77
47) 2,2,4-Trimethylpentane	4.93	57	5690	1.74	ppb		92
49) Carbon Tetrachloride	4.67	117	2204	0.25	ppb		97
50) Tert Amyl Methyl Ether	4.97	73	3426	1.50	ppb	#	76
51) Methylcyclopentane	4.01	56	357	0.26	ppb	#	96
52) 1,2-DCA	4.84	62	3359	0.33	ppb	#	82
53) Benzene	4.84	78	10171	0.31	ppb		96
54) TCE	5.40	130	3014	0.33	ppb	#	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z30.D Vial: 4
Acq On : 16 Oct 20 16:48 Operator: LP,DG,CH
Sample : 0.3ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
55)	2-Pentanone	5.56	43	37845	7.20	ppb		99
56)	1,2-Dichloropropane	5.57	63	2536	0.31	ppb	#	88
57)	Bromodichloromethane	5.81	83	2538	0.30	ppb		89
58)	Methyl Cyclohexane	5.57	83	3062	0.25	ppb		100
59)	Dibromomethane	5.68	174	1744	0.32	ppb		84
60)	MIBK (methyl isobutyl ket	6.35	43	23699	4.12	ppb		97
61)	1-Bromo-2-chloroethane	6.07	144	363	0.29	ppb	#	76
63)	Cis-1,3-Dichloropropene	6.20	75	2558	1.52	ppb	#	78
64)	Toluene	6.50	91	9514	0.28	ppb		86
65)	Trans-1,3-Dichloropropene	6.69	75	2112	1.60	ppb	#	76
66)	1,1,2-TCA	6.85	97	1811	0.27	ppb	#	81
67)	2-Hexanone	7.09	43	16140	4.17	ppb		100
70)	1,2-EDB	7.30	107	1873	0.28	ppb	#	66
71)	Tetrachloroethene	6.99	166	2610	0.30	ppb		89
72)	1-Chlorohexane	7.75	91	4979	0.45	ppb	#	63
73)	1,1,1,2-Tetrachloroethane	7.84	131	1695	0.27	ppb		96
74)	m&p-Xylene	7.98	91	14324	0.55	ppb		94
75)	o-Xylene	8.35	91	6536	0.25	ppb		99
76)	Styrene	8.36	104	4513	1.00	ppb	#	80
78)	1,3-Dichloropropane	6.99	76	3105	0.27	ppb		99
79)	Dibromochloromethane	7.20	129	1642	1.84	ppb		89
80)	Chlorobenzene	7.76	112	7192	0.32	ppb	#	88
81)	Ethylbenzene	7.88	91	9362	0.26	ppb		92
82)	Bromoform	8.51	173	771	1.50	ppb	#	72
84)	Isopropylbenzene	8.70	105	7478	1.48	ppb		100
85)	1,1,2,2-Tetrachloroethane	8.97	83	2069	0.24	ppb	#	86
86)	1,2,3-Trichloropropane	9.01	110	623	0.23	ppb		90
87)	t-1,4-Dichloro-2-Butene	9.02	53	359	2.61	ppb		90
88)	Bromobenzene	8.97	77	4650	0.29	ppb		94
89)	n-Propylbenzene	9.09	91	9535	0.23	ppb		95
90)	4-Ethyltoluene	9.20	105	7612	0.22	ppb		94
91)	2-Chlorotoluene	9.16	91	7419	0.26	ppb		97
92)	1,3,5-Trimethylbenzene	9.26	105	6312	0.22	ppb		92
93)	4-Chlorotoluene	9.26	91	7115	0.25	ppb		96
94)	Tert-Butylbenzene	9.58	119	5450	1.42	ppb		96
95)	1,2,4-Trimethylbenzene	9.62	105	5343	1.20	ppb		100
96)	Sec-Butylbenzene	9.79	105	7938	1.21	ppb		98
97)	p-Isopropyltoluene	9.94	119	7318	0.22	ppb	#	88
98)	Benzyl Chloride	10.10	91	2414	2.89	ppb	#	86
99)	1,3-DCB	9.97	146	6273	0.34	ppb		91
100)	1,4-DCB	9.97	146	6273	0.32	ppb		91
101)	n-Butylbenzene	10.33	91	6223	0.96	ppb		98
102)	1,2-DCB	10.33	146	4755	0.28	ppb	#	92
103)	Hexachloroethane	10.59	201	924	2.78	ppb	#	65
104)	1,2-Dibromo-3-chloropropan	11.08	157	273	2.42	ppb	#	61
105)	1,2,4-Trichlorobenzene	11.91	180	2414	1.50	ppb		93
106)	Hexachlorobutadiene	12.10	225	1496	0.29	ppb		96
107)	Naphthalene	12.15	128	4534	1.87	ppb	#	91
108)	1,2,3-Trichlorobenzene	12.39	180	2248	1.18	ppb	#	73

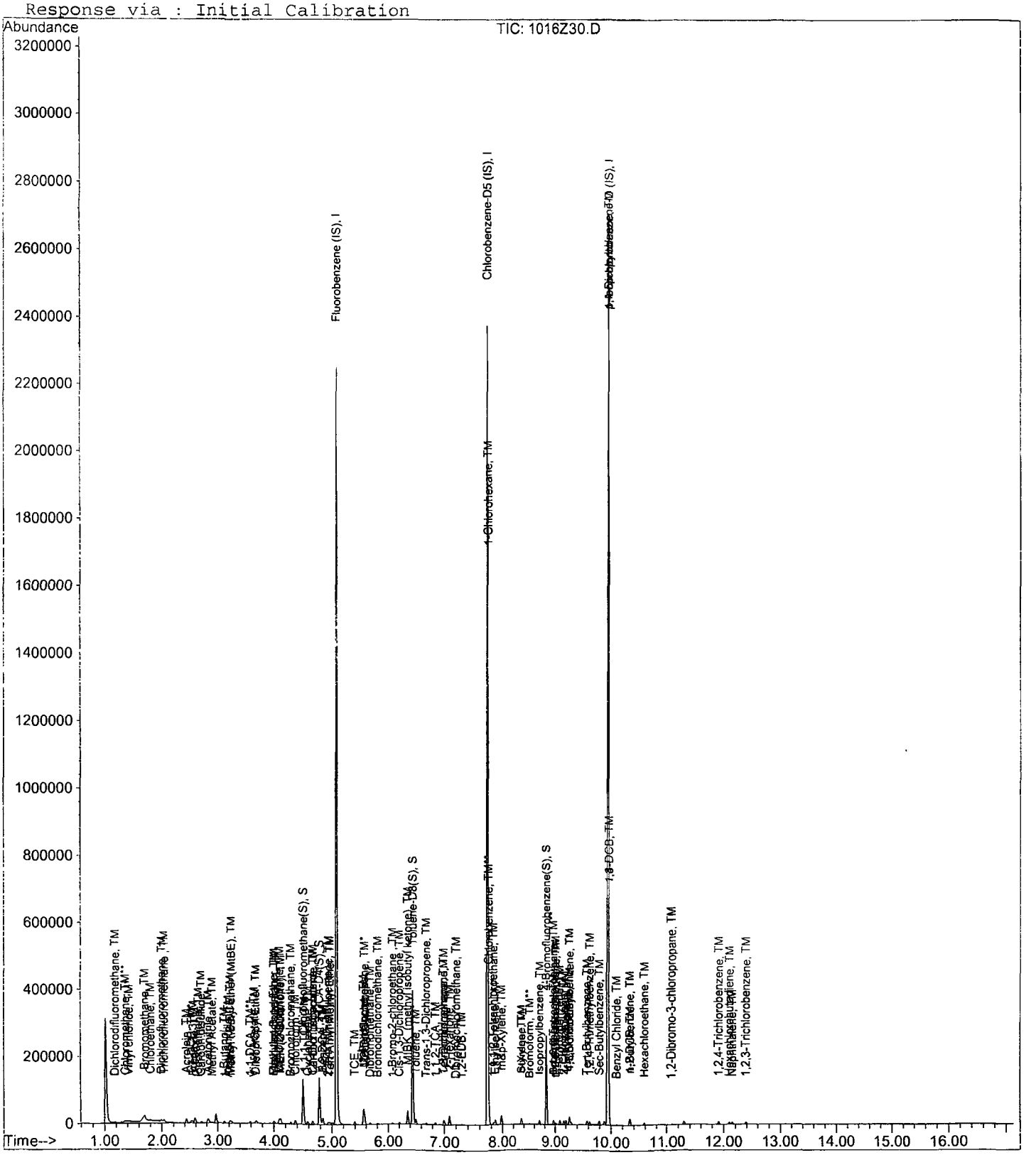
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z30.D Vial: 4
Acq On : 16 Oct 20 16:48 Operator: LP,DG,CH
Sample : 0.3ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z31.D Vial: 5
Acq On : 16 Oct 20 17:11 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1636282	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1145414	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	627228	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	64663	4.13	ppb		0.00
Spiked Amount 25.000			Recovery =	16.524%			
48) 1,2-DCA-D4(S)	4.78	65	68121	4.18	ppb		0.00
Spiked Amount 25.000			Recovery =	16.708%			
69) Toluene-D8(S)	6.45	98	224737	3.96	ppb		0.00
Spiked Amount 25.000			Recovery =	15.824%			
77) 4-Bromofluorobenzene(S)	8.83	95	72496	4.52	ppb		0.00
Spiked Amount 25.000			Recovery =	18.100%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.19	87	1327	0.58	ppb	#	41
4) Freon 114	1.29	85	2343	-0.18	ppb		88
5) Chloromethane	1.36	50	5513	0.61	ppb		97
6) Vinyl chloride	1.43	62	3671	0.51	ppb	#	85
9) Bromomethane	1.70	94	1395	0.57	ppb	#	71
10) Chloroethane	1.79	64	3485	0.95	ppb		91
11) Dichlorofluoromethane	1.99	67	8573	0.63	ppb		93
12) Trichlorofluoromethane	2.04	101	5817	0.57	ppb		95
16) Acrolein	2.43	55	19199	24.90	ppb		98
17) Acetone	2.58	43	30809	10.92	ppb		98
18) Freon-113	2.55	101	4228	1.46	ppb		98
19) 1,1-DCE	2.52	61	5795	0.54	ppb		95
21) Acetonitrile	2.82	40	9359	28.06	ppb		99
22) t-Butanol	3.12	59	7312	24.22	ppb		95
23) Methyl Acetate	2.90	43	4590	0.62	ppb	#	82
24) Iodomethane	2.65	142	1596	1.71	ppb	#	81
25) Acrylonitrile	3.19	52	1459	0.48	ppb		87
26) Methylene chloride	2.97	84	9541	-0.19	ppb		92
27) Carbon disulfide	2.71	76	6603	1.16	ppb	#	92
28) Methyl t-butyl ether (MtBE	3.25	73	7588	0.44	ppb		100
29) Trans-1,2-DCE	3.21	61	5729	0.55	ppb	#	73
31) Diisopropyl Ether	3.69	45	10131	0.44	ppb	#	84
33) 1,1-DCA	3.59	63	7285	0.54	ppb		94
34) Vinyl Acetate	3.65	43	5506	0.47	ppb		100
35) Ethyl tert Butyl Ether	4.00	59	7347	1.58	ppb		95
36) MEK (2-Butanone)	4.12	43	31776	8.85	ppb		98
37) Cis-1,2-DCE	4.09	61	6518	0.54	ppb		97
38) 2,2-Dichloropropane	4.09	77	4575	0.51	ppb		93
41) Chloroform	4.37	83	7113	0.54	ppb		98
42) Bromochloromethane	4.29	49	3672	0.54	ppb		96
44) 1,1,1-TCA	4.53	97	5673	0.54	ppb	#	84
45) Cyclohexane	4.58	56	6157	1.80	ppb	#	92
46) 1,1-Dichloropropene	4.67	75	5277	0.55	ppb	#	92
47) 2,2,4-Trimethylpentane	4.93	57	11198	1.94	ppb		97
49) Carbon Tetrachloride	4.67	117	4452	0.52	ppb		91
50) Tert Amyl Methyl Ether	4.97	73	6465	1.65	ppb		98
51) Methylcyclopentane	4.01	56	554	0.43	ppb	#	96
52) 1,2-DCA	4.85	62	5442	0.55	ppb		97
53) Benzene	4.84	78	17283	0.54	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z31.D Vial: 5
Acq On : 16 Oct 20 17:11 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.40	130	4876	0.55	ppb		90
55)	2-Pentanone	5.55	43	106561	21.04	ppb		99
56)	1,2-Dichloropropane	5.58	63	4113	0.53	ppb	#	88
57)	Bromodichloromethane	5.81	83	3812	0.46	ppb		94
58)	Methyl Cyclohexane	5.57	83	6253	0.53	ppb		94
59)	Dibromomethane	5.67	174	2810	0.54	ppb		98
60)	MIBK (methyl isobutyl ket	6.35	43	48842	9.57	ppb		98
61)	1-Bromo-2-chloroethane	6.09	144	551	0.45	ppb	#	76
63)	Cis-1,3-Dichloropropene	6.21	75	4202	1.66	ppb		95
64)	Toluene	6.50	91	16313	0.50	ppb		99
65)	Trans-1,3-Dichloropropene	6.69	75	3219	1.71	ppb		93
66)	1,1,2-TCA	6.86	97	2934	0.46	ppb	#	90
67)	2-Hexanone	7.09	43	32687	9.45	ppb		96
70)	1,2-EDB	7.30	107	2932	0.45	ppb	#	99
71)	Tetrachloroethene	6.99	166	4606	0.55	ppb	#	81
72)	1-Chlorohexane	7.75	91	6728	0.63	ppb	#	79
73)	1,1,1,2-Tetrachloroethane	7.84	131	2478	0.40	ppb		94
74)	m&p-Xylene	7.98	91	23374	0.93	ppb		91
75)	o-Xylene	8.35	91	11169	0.45	ppb		89
76)	Styrene	8.36	104	7547	1.14	ppb		95
78)	1,3-Dichloropropane	7.00	76	5377	0.49	ppb		94
79)	Dibromochloromethane	7.20	129	2292	1.93	ppb	#	80
80)	Chlorobenzene	7.76	112	11711	0.54	ppb		96
81)	Ethylbenzene	7.87	91	17309	0.50	ppb		100
82)	Bromoform	8.52	173	1308	1.62	ppb		94
84)	Isopropylbenzene	8.70	105	13397	1.63	ppb		90
85)	1,1,2,2-Tetrachloroethane	8.97	83	3806	0.46	ppb	#	97
86)	1,2,3-Trichloropropane	9.00	110	1078	0.41	ppb	#	74
87)	t-1,4-Dichloro-2-Butene	9.02	53	699	2.74	ppb		92
88)	Bromobenzene	8.97	77	7311	0.47	ppb		87
89)	n-Propylbenzene	9.09	91	17166	0.43	ppb		98
90)	4-Ethyltoluene	9.20	105	13463	0.40	ppb		98
91)	2-Chlorotoluene	9.17	91	12723	0.46	ppb		99
92)	1,3,5-Trimethylbenzene	9.27	105	10442	0.38	ppb		93
93)	4-Chlorotoluene	9.27	91	11823	0.43	ppb		95
94)	Tert-Butylbenzene	9.57	119	9266	1.56	ppb		100
95)	1,2,4-Trimethylbenzene	9.63	105	9900	1.34	ppb		98
96)	Sec-Butylbenzene	9.79	105	14488	1.36	ppb		98
97)	p-Isopropyltoluene	9.94	119	13597	0.43	ppb		90
98)	Benzyl Chloride	10.10	91	3953	2.99	ppb	#	83
99)	1,3-DCB	9.88	146	8766	0.49	ppb		94
100)	1,4-DCB	9.97	146	9642	0.51	ppb	#	86
101)	n-Butylbenzene	10.33	91	11099	1.11	ppb		93
102)	1,2-DCB	10.33	146	7699	0.47	ppb	#	87
103)	Hexachloroethane	10.59	201	1368	2.87	ppb		91
104)	1,2-Dibromo-3-chloropropan	11.09	157	570	2.55	ppb	#	77
105)	1,2,4-Trichlorobenzene	11.91	180	4077	1.64	ppb		98
106)	Hexachlorobutadiene	12.10	225	2333	0.47	ppb	#	84
107)	Naphthalene	12.15	128	7180	1.96	ppb		97
108)	1,2,3-Trichlorobenzene	12.39	180	3599	1.31	ppb		83

(#) = qualifier out of range (m) = manual integration

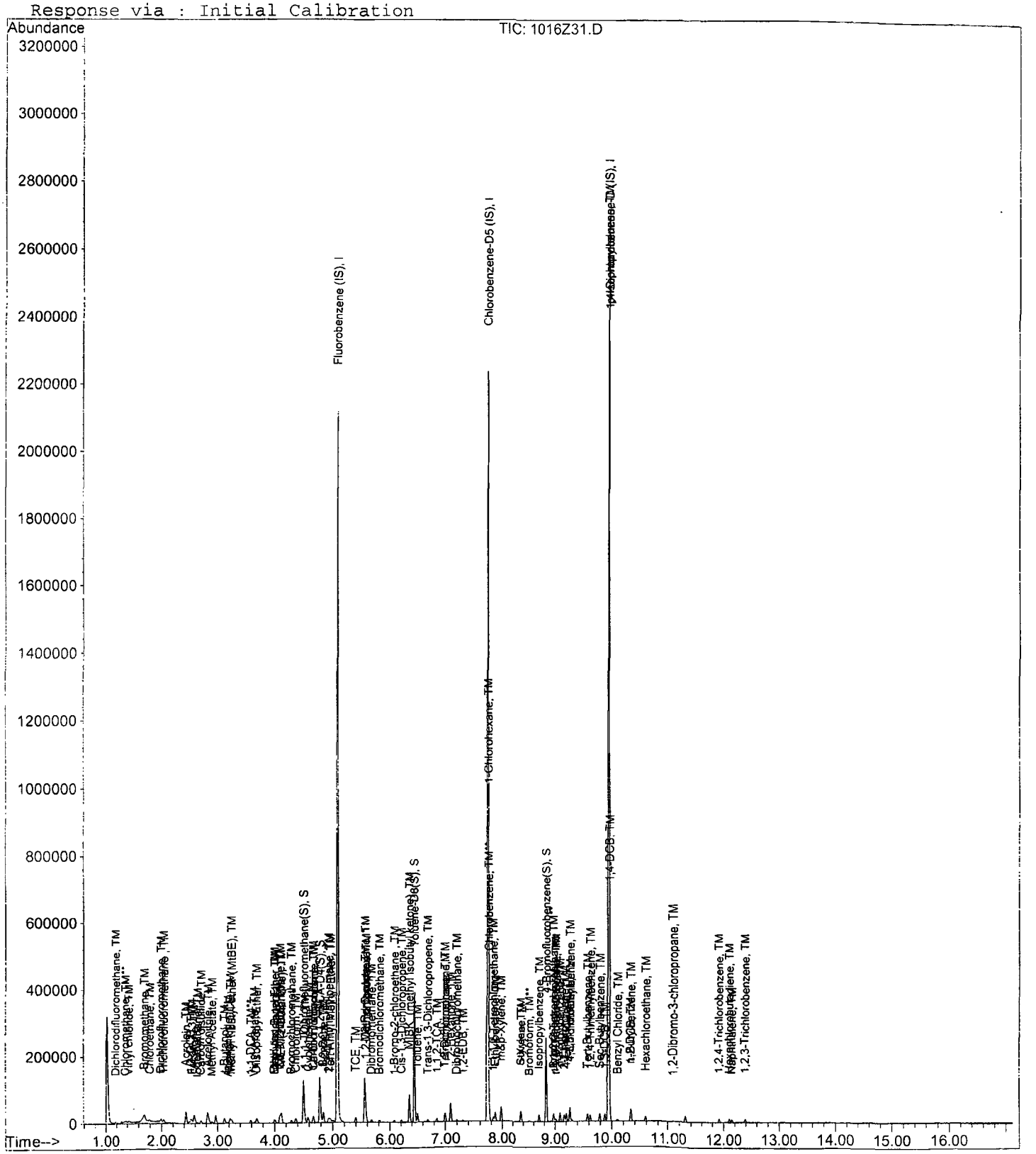
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z31.D
Acq On : 16 Oct 20 17:11
Sample : 0.5ug/L VOC STD 10/16/20
Misc :

Vial: 5
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z32.D Vial: 6
Acq On : 16 Oct 20 17:34 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1664785	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1166593	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	645296	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	156804	9.85	ppb		0.00
Spiked Amount 25.000			Recovery =	39.380%			
48) 1,2-DCA-D4(S)	4.78	65	165293	9.96	ppb		0.00
Spiked Amount 25.000			Recovery =	39.844%			
69) Toluene-D8(S)	6.44	98	562609	9.72	ppb		0.00
Spiked Amount 25.000			Recovery =	38.900%			
77) 4-Bromofluorobenzene(S)	8.83	95	186205	9.43	ppb		0.00
Spiked Amount 25.000			Recovery =	37.732%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	2700	1.25	ppb		75
4) Freon 114	1.29	85	3801	1.01	ppb		94
5) Chloromethane	1.37	50	10313	1.12	ppb		94
6) Vinyl chloride	1.43	62	7955	1.09	ppb		93
9) Bromomethane	1.70	94	2781	1.11	ppb		95
10) Chloroethane	1.79	64	4375	1.29	ppb	#	87
11) Dichlorofluoromethane	1.99	67	15160	1.10	ppb		99
12) Trichlorofluoromethane	2.04	101	11877	1.15	ppb		91
16) Acrolein	2.43	55	38963	49.67	ppb		97
17) Acetone	2.59	43	56579	19.71	ppb		90
18) Freon-113	2.54	101	7972	1.98	ppb		93
19) 1,1-DCE	2.52	61	11648	1.07	ppb		96
21) Acetonitrile	2.83	40	18935	55.80	ppb		89
22) t-Butanol	3.12	59	15243	49.63	ppb		96
23) Methyl Acetate	2.90	43	8066	1.06	ppb		99
24) Iodomethane	2.64	142	3650	1.98	ppb	#	87
25) Acrylonitrile	3.19	52	3219	1.05	ppb		92
26) Methylene chloride	2.97	84	19753	1.01	ppb		97
27) Carbon disulfide	2.71	76	11759	1.64	ppb	#	94
28) Methyl t-butyl ether (MtBE	3.25	73	15889	0.91	ppb		97
29) Trans-1,2-DCE	3.22	61	11478	1.07	ppb	#	91
31) Diisopropyl Ether	3.69	45	20535	0.87	ppb		98
33) 1,1-DCA	3.59	63	14526	1.05	ppb		97
34) Vinyl Acetate	3.65	43	10305	0.87	ppb		95
35) Ethyl tert Butyl Ether	4.01	59	15637	1.92	ppb		97
36) MEK (2-Butanone)	4.12	43	63605	17.41	ppb		100
37) Cis-1,2-DCE	4.09	61	12810	1.04	ppb		97
38) 2,2-Dichloropropane	4.09	77	8739	0.96	ppb		96
41) Chloroform	4.37	83	14060	1.05	ppb		93
42) Bromochloromethane	4.29	49	7036	1.01	ppb		93
44) 1,1,1-TCA	4.52	97	10854	1.02	ppb		93
45) Cyclohexane	4.58	56	11831	2.21	ppb		93
46) 1,1-Dichloropropene	4.67	75	9610	0.99	ppb	#	90
47) 2,2,4-Trimethylpentane	4.93	57	22923	2.35	ppb		97
49) Carbon Tetrachloride	4.67	117	9404	1.09	ppb		95
50) Tert Amyl Methyl Ether	4.97	73	13547	1.98	ppb	#	88
51) Methylcyclopentane	4.00	56	1440	1.09	ppb	#	96
52) 1,2-DCA	4.84	62	11061	1.10	ppb		99
53) Benzene	4.84	78	33674	1.03	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z32.D Vial: 6
Acq On : 16 Oct 20 17:34 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.40	130	9152	1.01	ppb		93
55)	2-Pentanone	5.55	43	228132	44.27	ppb		99
56)	1,2-Dichloropropane	5.57	63	7838	0.98	ppb		99
57)	Bromodichloromethane	5.81	83	8185	0.97	ppb		93
58)	Methyl Cyclohexane	5.57	83	12826	1.07	ppb		100
59)	Dibromomethane	5.67	174	5176	0.98	ppb		95
60)	MIBK (methyl isobutyl ket	6.35	43	106538	19.78	ppb		96
61)	1-Bromo-2-chloroethane	6.08	144	1212	0.98	ppb		97
63)	Cis-1,3-Dichloropropene	6.21	75	8471	1.98	ppb		97
64)	Toluene	6.51	91	34168	1.03	ppb		98
65)	Trans-1,3-Dichloropropene	6.69	75	7051	2.06	ppb	#	91
66)	1,1,2-TCA	6.85	97	6509	0.99	ppb		99
67)	2-Hexanone	7.09	43	72129	19.74	ppb		99
70)	1,2-EDB	7.30	107	5943	0.90	ppb	#	87
71)	Tetrachloroethene	6.99	166	8798	1.02	ppb		96
72)	1-Chlorohexane	7.75	91	11525	1.06	ppb		93
73)	1,1,1,2-Tetrachloroethane	7.84	131	5491	0.88	ppb		90
74)	m&p-Xylene	7.98	91	47382	1.86	ppb		100
75)	o-Xylene	8.35	91	22528	0.89	ppb		100
76)	Styrene	8.36	104	14765	1.43	ppb		89
78)	1,3-Dichloropropane	7.00	76	10492	0.93	ppb		98
79)	Dibromochloromethane	7.20	129	5469	2.32	ppb		98
80)	Chlorobenzene	7.76	112	23324	1.05	ppb		96
81)	Ethylbenzene	7.87	91	32977	0.94	ppb		96
82)	Bromoform	8.51	173	3077	1.97	ppb		98
84)	Isopropylbenzene	8.70	105	26807	1.95	ppb		94
85)	1,1,2,2-Tetrachloroethane	8.97	83	7439	0.88	ppb		98
86)	1,2,3-Trichloropropane	9.00	110	2437	0.90	ppb	#	72
87)	t-1,4-Dichloro-2-Butene	9.02	53	1660	3.08	ppb	#	85
88)	Bromobenzene	8.97	77	15298	0.96	ppb		93
89)	n-Propylbenzene	9.09	91	36701	0.89	ppb		98
90)	4-Ethyltoluene	9.21	105	29528	0.85	ppb		97
91)	2-Chlorotoluene	9.16	91	26470	0.94	ppb		95
92)	1,3,5-Trimethylbenzene	9.27	105	24815	0.88	ppb		97
93)	4-Chlorotoluene	9.27	91	27032	0.95	ppb		96
94)	Tert-Butylbenzene	9.58	119	20176	1.90	ppb		96
95)	1,2,4-Trimethylbenzene	9.63	105	21568	1.67	ppb		99
96)	Sec-Butylbenzene	9.79	105	31703	1.72	ppb		96
97)	p-Isopropyltoluene	9.94	119	27499	0.85	ppb		99
98)	Benzyl Chloride	10.10	91	8059	3.22	ppb	#	89
99)	1,3-DCB	9.88	146	17396	0.95	ppb		95
100)	1,4-DCB	9.97	146	19459	1.01	ppb		95
101)	n-Butylbenzene	10.33	91	22175	1.41	ppb		95
102)	1,2-DCB	10.33	146	16178	0.96	ppb		99
103)	Hexachloroethane	10.59	201	2667	3.09	ppb	#	61
104)	1,2-Dibromo-3-chloropropan	11.09	157	1319	2.85	ppb	#	66
105)	1,2,4-Trichlorobenzene	11.92	180	8531	1.96	ppb		92
106)	Hexachlorobutadiene	12.10	225	4665	0.91	ppb		97
107)	Naphthalene	12.15	128	15957	2.21	ppb		98
108)	1,2,3-Trichlorobenzene	12.39	180	8122	1.68	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

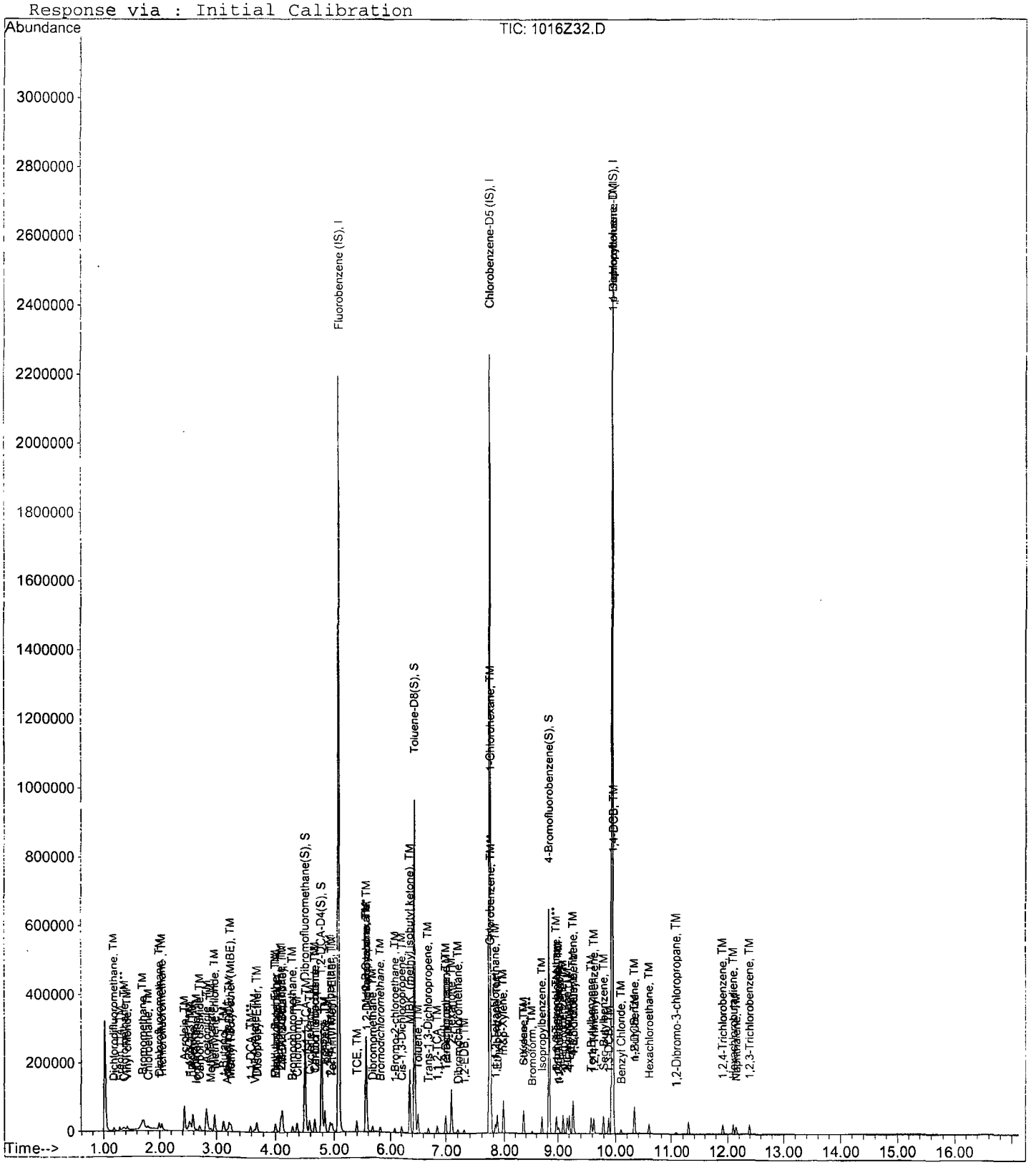
Data File : M:\ZEUS\DATA\201016\1016Z32.D
Acq On : 16 Oct 20 17:34
Sample : 1ug/L VOC STD 10/16/20
Misc :

Vial: 6
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 17 8:50 2020

Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z33.D Vial: 7
Acq On : 16 Oct 20 17:57 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1665942	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1172489	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	650691	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	158152	9.92	ppb		0.00
Spiked Amount 25.000			Recovery =	39.692%			
48) 1,2-DCA-D4(S)	4.78	65	169506	10.21	ppb		0.00
Spiked Amount 25.000			Recovery =	40.832%			
69) Toluene-D8(S)	6.44	98	577504	9.93	ppb		0.00
Spiked Amount 25.000			Recovery =	39.728%			
77) 4-Bromofluorobenzene(S)	8.83	95	191413	9.62	ppb		0.00
Spiked Amount 25.000			Recovery =	38.472%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	5379	2.60	ppb		74
4) Freon 114	1.30	85	6879	3.25	ppb		99
5) Chloromethane	1.37	50	21366	2.32	ppb		97
6) Vinyl chloride	1.43	62	15974	2.20	ppb		98
9) Bromomethane	1.70	94	5444	2.18	ppb		90
10) Chloroethane	1.79	64	6538	2.15	ppb		98
11) Dichlorofluoromethane	1.99	67	29904	2.16	ppb		99
12) Trichlorofluoromethane	2.04	101	23642	2.29	ppb		92
16) Acrolein	2.43	55	62496	79.62	ppb		95
17) Acetone	2.59	43	86414	30.08	ppb		97
18) Freon-113	2.54	101	15529	3.04	ppb		93
19) 1,1-DCE	2.52	61	24277	2.23	ppb		95
21) Acetonitrile	2.83	40	28312	83.38	ppb		95
22) t-Butanol	3.12	59	24160	78.61	ppb		99
23) Methyl Acetate	2.89	43	15943	2.10	ppb		92
24) Iodomethane	2.65	142	8366	2.61	ppb		99
25) Acrylonitrile	3.19	52	6496	2.12	ppb		91
26) Methylene chloride	2.97	84	34437	2.77	ppb		95
27) Carbon disulfide	2.70	76	22784	2.68	ppb		98
28) Methyl t-butyl ether (MtBE	3.25	73	35007	2.00	ppb		99
29) Trans-1,2-DCE	3.22	61	23094	2.16	ppb		92
31) Diisopropyl Ether	3.69	45	45821	1.94	ppb		95
33) 1,1-DCA	3.59	63	28827	2.09	ppb		97
34) Vinyl Acetate	3.65	43	21275	1.80	ppb		96
35) Ethyl tert Butyl Ether	4.00	59	35122	2.74	ppb		99
36) MEK (2-Butanone)	4.12	43	107066	29.29	ppb		99
37) Cis-1,2-DCE	4.09	61	26084	2.11	ppb		100
38) 2,2-Dichloropropane	4.09	77	19110	2.11	ppb		92
41) Chloroform	4.37	83	28177	2.11	ppb		98
42) Bromochloromethane	4.29	49	15253	2.19	ppb		93
44) 1,1,1-TCA	4.53	97	22346	2.11	ppb		93
45) Cyclohexane	4.58	56	23586	3.09	ppb		99
46) 1,1-Dichloropropene	4.67	75	20180	2.08	ppb		93
47) 2,2,4-Trimethylpentane	4.93	57	49757	3.29	ppb		100
49) Carbon Tetrachloride	4.67	117	18155	2.10	ppb		89
50) Tert Amyl Methyl Ether	4.97	73	30450	2.79	ppb		98
51) Methylcyclopentane	4.00	56	3031	2.28	ppb	#	96
52) 1,2-DCA	4.85	62	21686	2.16	ppb	#	94
53) Benzene	4.84	78	71105	2.18	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z33.D Vial: 7
Acq On : 16 Oct 20 17:57 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.40	130	19684	2.17	ppb		99
55)	2-Pentanone	5.55	43	390453	75.71	ppb		98
56)	1,2-Dichloropropane	5.58	63	17310	2.17	ppb	#	95
57)	Bromodichloromethane	5.81	83	16638	1.98	ppb		96
58)	Methyl Cyclohexane	5.57	83	27185	2.27	ppb		95
59)	Dibromomethane	5.67	174	11216	2.12	ppb		96
60)	MIBK (methyl isobutyl ket	6.35	43	184643	31.64	ppb		98
61)	1-Bromo-2-chloroethane	6.08	144	2605	2.10	ppb		98
63)	Cis-1,3-Dichloropropene	6.21	75	19568	2.84	ppb		96
64)	Toluene	6.51	91	69592	2.11	ppb		98
65)	Trans-1,3-Dichloropropene	6.69	75	15535	2.84	ppb		93
66)	1,1,2-TCA	6.85	97	13618	2.08	ppb		97
67)	2-Hexanone	7.09	43	125204	31.65	ppb		99
70)	1,2-EDB	7.30	107	12891	1.95	ppb	#	96
71)	Tetrachloroethene	6.99	166	17956	2.08	ppb		97
72)	1-Chlorohexane	7.75	91	23280	2.13	ppb		95
73)	1,1,1,2-Tetrachloroethane	7.84	131	12228	1.94	ppb		97
74)	m&p-Xylene	7.98	91	103772	4.05	ppb		97
75)	o-Xylene	8.35	91	48722	1.91	ppb		99
76)	Styrene	8.36	104	35345	2.28	ppb		95
78)	1,3-Dichloropropane	7.00	76	22538	2.00	ppb		94
79)	Dibromochloromethane	7.20	129	11040	3.01	ppb		97
80)	Chlorobenzene	7.76	112	46607	2.08	ppb		99
81)	Ethylbenzene	7.87	91	70245	2.00	ppb		98
82)	Bromoform	8.51	173	6555	2.66	ppb		87
84)	Isopropylbenzene	8.70	105	59435	2.73	ppb		99
85)	1,1,2,2-Tetrachloroethane	8.97	83	16300	1.91	ppb		98
86)	1,2,3-Trichloropropane	9.01	110	5272	1.93	ppb		96
87)	t-1,4-Dichloro-2-Butene	9.02	53	3441	3.71	ppb		88
88)	Bromobenzene	8.97	77	31664	1.96	ppb		98
89)	n-Propylbenzene	9.09	91	80157	1.93	ppb		98
90)	4-Ethyltoluene	9.21	105	67565	1.93	ppb		98
91)	2-Chlorotoluene	9.16	91	55694	1.96	ppb		100
92)	1,3,5-Trimethylbenzene	9.27	105	55083	1.93	ppb		98
93)	4-Chlorotoluene	9.27	91	57427	2.01	ppb		100
94)	Tert-Butylbenzene	9.58	119	44399	2.68	ppb		98
95)	1,2,4-Trimethylbenzene	9.63	105	50707	2.49	ppb		98
96)	Sec-Butylbenzene	9.79	105	71699	2.57	ppb		100
97)	p-Isopropyltoluene	9.94	119	62214	1.91	ppb		97
98)	Benzyl Chloride	10.10	91	16894	3.72	ppb		96
99)	1,3-DCB	9.88	146	38066	2.06	ppb		94
100)	1,4-DCB	9.97	146	40911	2.10	ppb		98
101)	n-Butylbenzene	10.33	91	52519	2.26	ppb		96
102)	1,2-DCB	10.33	146	34413	2.02	ppb		92
103)	Hexachloroethane	10.59	201	5904	3.64	ppb	#	67
104)	1,2-Dibromo-3-chloropropan	11.08	157	2867	3.47	ppb	#	90
105)	1,2,4-Trichlorobenzene	11.92	180	19214	2.75	ppb		99
106)	Hexachlorobutadiene	12.10	225	9883	1.91	ppb		95
107)	Naphthalene	12.15	128	37038	2.82	ppb		97
108)	1,2,3-Trichlorobenzene	12.39	180	18141	2.51	ppb		94

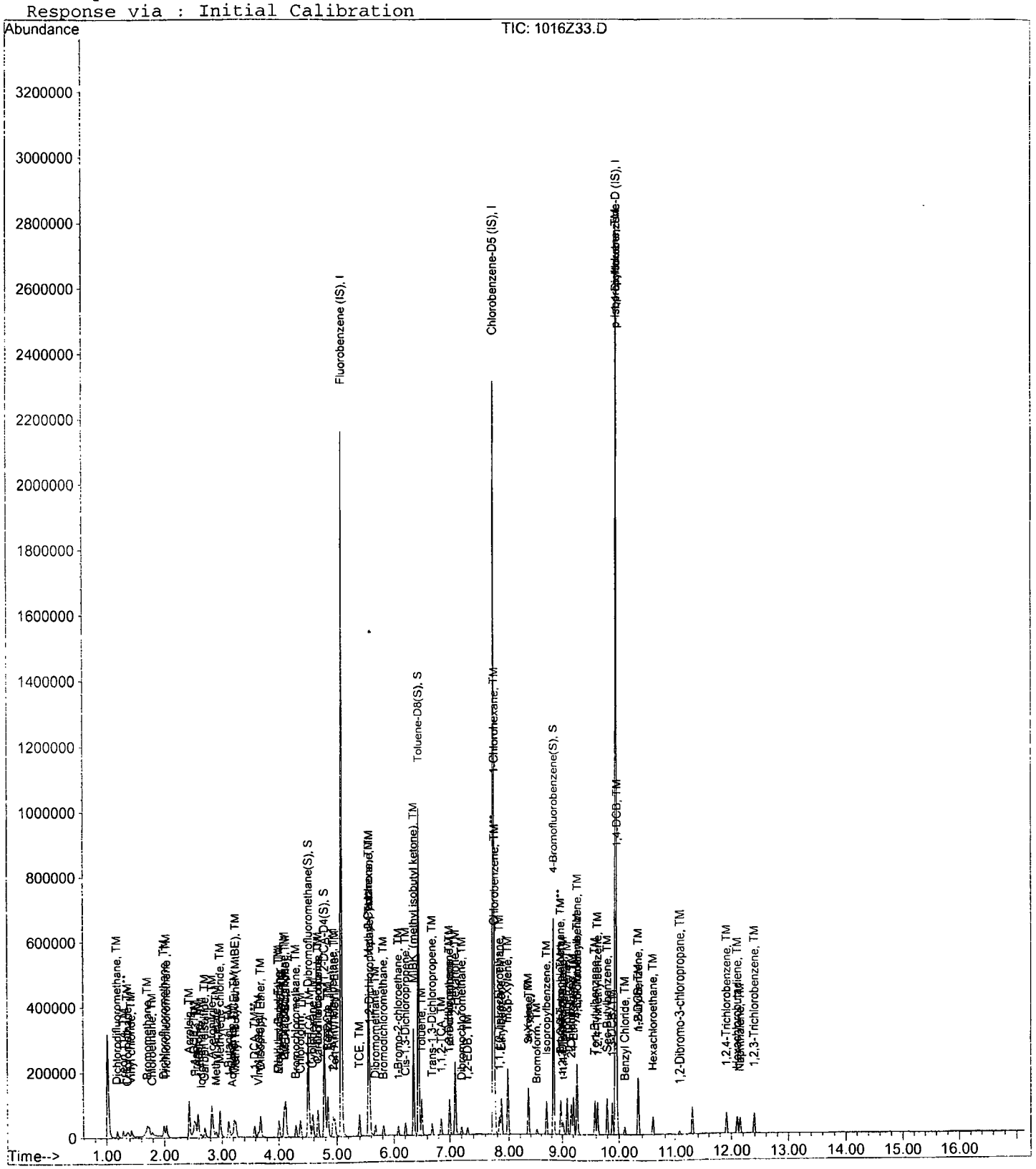
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z33.D Vial: 7
Acq On : 16 Oct 20 17:57 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z34.D Vial: 8
Acq On : 16 Oct 20 18:21 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1832153	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1258519	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	697389	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	468622	26.74	ppb		0.00
Spiked Amount 25.000			Recovery =	106.940%			
48) 1,2-DCA-D4(S)	4.78	65	490570	26.86	ppb		0.00
Spiked Amount 25.000			Recovery =	107.456%			
69) Toluene-D8(S)	6.45	98	1714270	27.47	ppb		0.00
Spiked Amount 25.000			Recovery =	109.868%			
77) 4-Bromofluorobenzene(S)	8.83	95	592298	25.28	ppb		0.00
Spiked Amount 25.000			Recovery =	101.124%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	9617	4.28	ppb		86
4) Freon 114	1.29	85	8963	4.08	ppb		100
5) Chloromethane	1.37	50	40772	4.02	ppb		99
6) Vinyl chloride	1.43	62	32965	4.12	ppb		99
9) Bromomethane	1.70	94	11214	4.07	ppb		92
10) Chloroethane	1.78	64	12736	4.17	ppb		95
11) Dichlorofluoromethane	1.99	67	67732	4.45	ppb		96
12) Trichlorofluoromethane	2.03	101	48369	4.26	ppb		98
16) Acrolein	2.44	55	89512	103.69	ppb		97
17) Acetone	2.59	43	123916	39.22	ppb		97
18) Freon-113	2.55	101	26299	4.23	ppb		91
19) 1,1-DCE	2.52	61	51284	4.29	ppb		98
21) Acetonitrile	2.83	40	36747	98.40	ppb		98
22) t-Butanol	3.13	59	36080	106.75	ppb		96
23) Methyl Acetate	2.90	43	39763	4.76	ppb		95
24) Iodomethane	2.65	142	19705	3.90	ppb		97
25) Acrylonitrile	3.19	52	17105	5.07	ppb		94
26) Methylene chloride	2.97	84	58298	5.00	ppb		98
27) Carbon disulfide	2.71	76	45776	4.47	ppb		100
28) Methyl t-butyl ether (MtBE	3.25	73	89783	4.65	ppb		96
29) Trans-1,2-DCE	3.22	61	52333	4.45	ppb		99
31) Diisopropyl Ether	3.69	45	118943	4.58	ppb		98
33) 1,1-DCA	3.59	63	70138	4.62	ppb		99
34) Vinyl Acetate	3.65	43	54385	4.17	ppb		96
35) Ethyl tert Butyl Ether	4.01	59	95663	4.92	ppb		97
36) MEK (2-Butanone)	4.12	43	170025	42.29	ppb		97
37) Cis-1,2-DCE	4.09	61	62317	4.59	ppb		97
38) 2,2-Dichloropropane	4.09	77	44035	4.41	ppb		96
41) Chloroform	4.37	83	66847	4.55	ppb		97
42) Bromochloromethane	4.29	49	35587	4.64	ppb		92
44) 1,1,1-TCA	4.52	97	51630	4.43	ppb		97
45) Cyclohexane	4.58	56	43858	4.30	ppb		89
46) 1,1-Dichloropropene	4.67	75	46806	4.39	ppb		98
47) 2,2,4-Trimethylpentane	4.93	57	88516	4.37	ppb		99
49) Carbon Tetrachloride	4.67	117	39176	4.12	ppb		100
50) Tert Amyl Methyl Ether	4.97	73	82892	4.92	ppb		90
51) Methylcyclopentane	4.00	56	7642	5.24	ppb	#	96
52) 1,2-DCA	4.85	62	52166	4.73	ppb		99
53) Benzene	4.84	78	166608	4.65	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z34.D Vial: 8
Acq On : 16 Oct 20 18:21 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	46058	4.61	ppb		98
55)	2-Pentanone	5.56	43	636653	112.25	ppb		98
56)	1,2-Dichloropropane	5.58	63	41314	4.72	ppb		99
57)	Bromodichloromethane	5.81	83	41395	4.47	ppb		99
58)	Methyl Cyclohexane	5.57	83	46801	3.56	ppb		99
59)	Dibromomethane	5.67	174	26652	4.58	ppb		90
60)	MIBK (methyl isobutyl ket	6.35	43	293943	42.49	ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	6548	4.79	ppb		85
63)	Cis-1,3-Dichloropropene	6.21	75	50294	4.86	ppb		97
64)	Toluene	6.51	91	173258	4.77	ppb		96
65)	Trans-1,3-Dichloropropene	6.69	75	40736	4.82	ppb		98
66)	1,1,2-TCA	6.85	97	33652	4.66	ppb		94
67)	2-Hexanone	7.09	43	200936	42.80	ppb		95
70)	1,2-EDB	7.30	107	33903	4.77	ppb	#	98
71)	Tetrachloroethene	6.99	166	41987	4.53	ppb		99
72)	1-Chlorohexane	7.75	91	47022	4.02	ppb		94
73)	1,1,1,2-Tetrachloroethane	7.84	131	33018	4.88	ppb		98
74)	m&p-Xylene	7.98	91	267276	9.71	ppb		99
75)	o-Xylene	8.35	91	128626	4.70	ppb		98
76)	Styrene	8.36	104	99232	4.64	ppb		97
78)	1,3-Dichloropropane	7.00	76	58341	4.82	ppb		95
79)	Dibromochloromethane	7.20	129	28748	4.98	ppb		97
80)	Chlorobenzene	7.76	112	111629	4.65	ppb		99
81)	Ethylbenzene	7.87	91	174299	4.62	ppb		99
82)	Bromoform	8.51	173	17364	4.59	ppb		100
84)	Isopropylbenzene	8.70	105	158958	4.87	ppb		98
85)	1,1,2,2-Tetrachloroethane	8.97	83	43515	4.76	ppb		98
86)	1,2,3-Trichloropropane	9.01	110	14336	4.89	ppb		99
87)	t-1,4-Dichloro-2-Butene	9.02	53	9852	5.77	ppb		94
88)	Bromobenzene	8.98	77	81561	4.71	ppb		92
89)	n-Propylbenzene	9.09	91	206449	4.63	ppb		98
90)	4-Ethyltoluene	9.21	105	177848	4.74	ppb		97
91)	2-Chlorotoluene	9.16	91	142139	4.66	ppb		100
92)	1,3,5-Trimethylbenzene	9.26	105	147670	4.84	ppb		98
93)	4-Chlorotoluene	9.27	91	147935	4.83	ppb		96
94)	Tert-Butylbenzene	9.58	119	118595	4.83	ppb		99
95)	1,2,4-Trimethylbenzene	9.63	105	146449	4.92	ppb		99
96)	Sec-Butylbenzene	9.79	105	186522	4.75	ppb		99
97)	p-Isopropyltoluene	9.94	119	162463	4.65	ppb		100
98)	Benzyl Chloride	10.10	91	43745	5.08	ppb		94
99)	1,3-DCB	9.88	146	91965	4.64	ppb		98
100)	1,4-DCB	9.97	146	98220	4.71	ppb		95
101)	n-Butylbenzene	10.33	91	140369	4.45	ppb		99
102)	1,2-DCB	10.33	146	86835	4.77	ppb		98
103)	Hexachloroethane	10.59	201	15431	5.10	ppb		93
104)	1,2-Dibromo-3-chloropropan	11.08	157	8161	5.39	ppb		88
105)	1,2,4-Trichlorobenzene	11.91	180	50790	4.85	ppb		97
106)	Hexachlorobutadiene	12.11	225	24526	4.42	ppb		97
107)	Naphthalene	12.15	128	112617	4.80	ppb		96
108)	1,2,3-Trichlorobenzene	12.39	180	49878	4.89	ppb		97

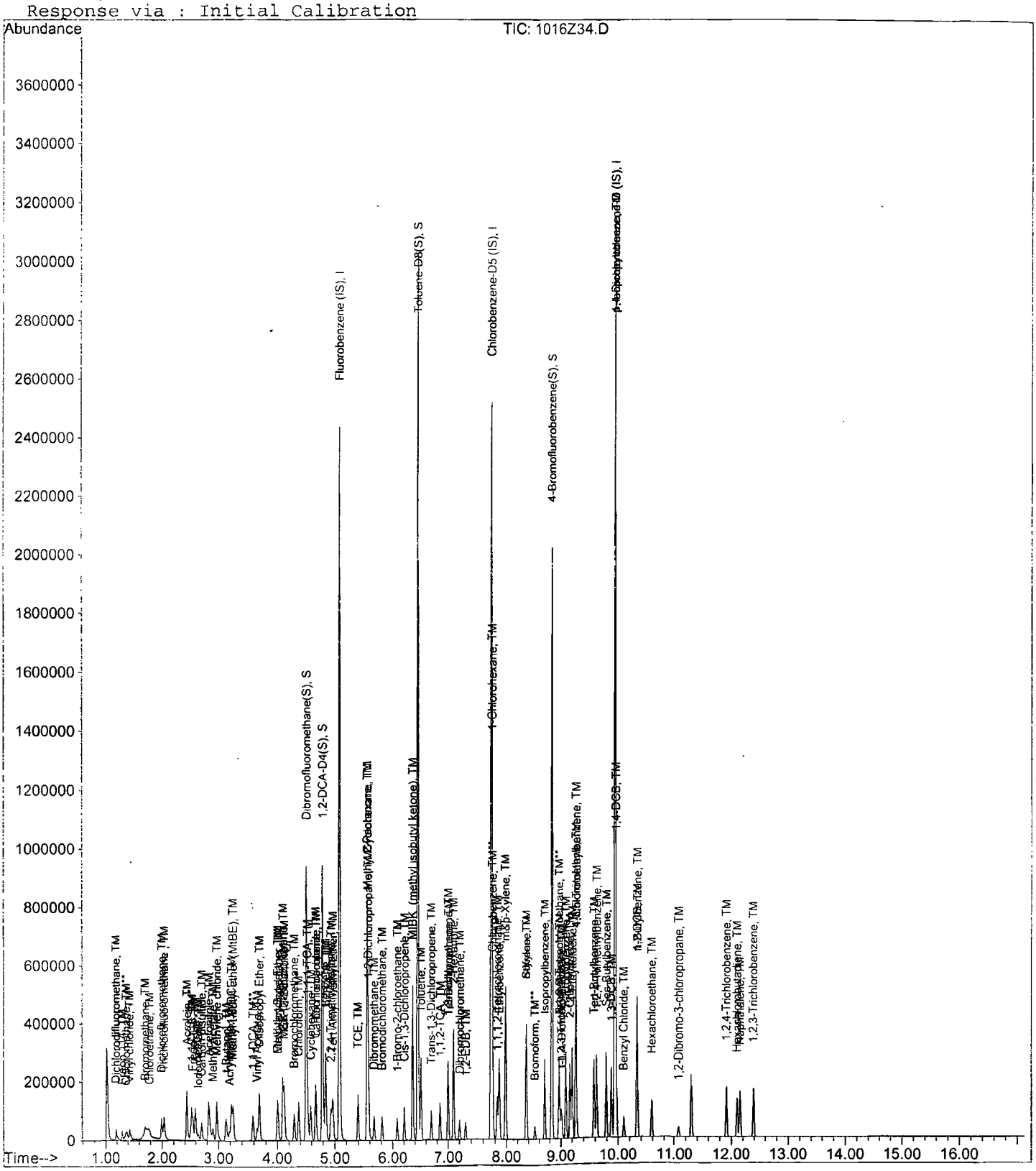
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z34.D Vial: 8
Acq On : 16 Oct 20 18:21 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z35.D Vial: 9
Acq On : 16 Oct 20 18:44 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1852119	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1279265	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	708302	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	479222	27.05	ppb		0.00
Spiked Amount 25.000			Recovery =	108.180%			
48) 1,2-DCA-D4(S)	4.78	65	495035	26.82	ppb		0.00
Spiked Amount 25.000			Recovery =	107.264%			
69) Toluene-D8(S)	6.44	98	1743650	27.48	ppb		0.00
Spiked Amount 25.000			Recovery =	109.940%			
77) 4-Bromofluorobenzene(S)	8.83	95	607068	25.48	ppb		0.00
Spiked Amount 25.000			Recovery =	101.920%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	22659	10.12	ppb		100
4) Freon 114	1.29	85	22176	10.25	ppb		100
5) Chloromethane	1.37	50	94971	9.27	ppb		100
6) Vinyl chloride	1.43	62	77477	9.58	ppb		100
9) Bromomethane	1.70	94	23647	8.50	ppb		100
10) Chloroethane	1.78	64	27723	9.53	ppb		97
11) Dichlorofluoromethane	1.99	67	139710	9.08	ppb		100
12) Trichlorofluoromethane	2.03	101	112595	9.82	ppb		100
16) Acrolein	2.43	55	105070	120.40	ppb		100
17) Acetone	2.59	43	140479	43.98	ppb		100
18) Freon-113	2.54	101	59341	8.39	ppb		100
19) 1,1-DCE	2.52	61	103704	8.59	ppb		100
21) Acetonitrile	2.83	40	43768	115.94	ppb		100
22) t-Butanol	3.12	59	41440	121.29	ppb		100
23) Methyl Acetate	2.90	43	69967	8.29	ppb		100
24) Iodomethane	2.65	142	56877	8.38	ppb		100
25) Acrylonitrile	3.19	52	30565	8.97	ppb		99
26) Methylene chloride	2.97	84	97911	9.20	ppb		100
27) Carbon disulfide	2.71	76	94640	8.59	ppb		100
28) Methyl t-butyl ether (MtBE	3.25	73	186213	9.55	ppb		100
29) Trans-1,2-DCE	3.22	61	105771	8.89	ppb		100
31) Diisopropyl Ether	3.69	45	250681	9.55	ppb		100
33) 1,1-DCA	3.59	63	142007	9.26	ppb		100
34) Vinyl Acetate	3.65	43	119156	9.05	ppb		100
35) Ethyl tert Butyl Ether	4.00	59	199112	8.78	ppb		100
36) MEK (2-Butanone)	4.12	43	191396	47.10	ppb		100
37) Cis-1,2-DCE	4.09	61	126972	9.25	ppb		100
38) 2,2-Dichloropropane	4.09	77	91185	9.04	ppb		100
41) Chloroform	4.37	83	137546	9.26	ppb		100
42) Bromochloromethane	4.29	49	73050	9.43	ppb		100
44) 1,1,1-TCA	4.52	97	104528	8.87	ppb		100
45) Cyclohexane	4.58	56	102598	8.21	ppb		100
46) 1,1-Dichloropropene	4.67	75	93033	8.63	ppb		100
47) 2,2,4-Trimethylpentane	4.93	57	219230	8.47	ppb		100
49) Carbon Tetrachloride	4.67	117	83357	8.67	ppb		100
50) Tert Amyl Methyl Ether	4.97	73	175374	8.82	ppb		100
51) Methylcyclopentane	4.01	56	14732	9.99	ppb	#	96
52) 1,2-DCA	4.85	62	103297	9.26	ppb		100
53) Benzene	4.84	78	332728	9.18	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z35.D Vial: 9
Acq On : 16 Oct 20 18:44 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
54)	TCE	5.40	130	88951	8.81 ppb	100
55)	2-Pentanone	5.55	43	732357	127.73 ppb	100
56)	1,2-Dichloropropane	5.58	63	83349	9.41 ppb	100
57)	Bromodichloromethane	5.81	83	87796	9.38 ppb	100
58)	Methyl Cyclohexane	5.57	83	110171	8.28 ppb	100
59)	Dibromomethane	5.67	174	54902	9.34 ppb	100
60)	MIBK (methyl isobutyl ket	6.35	43	347707	47.93 ppb	100
61)	1-Bromo-2-chloroethane	6.08	144	12558	9.09 ppb	100
63)	Cis-1,3-Dichloropropene	6.21	75	108604	8.87 ppb	100
64)	Toluene	6.51	91	334625	9.10 ppb	100
65)	Trans-1,3-Dichloropropene	6.69	75	89399	8.80 ppb	100
66)	1,1,2-TCA	6.85	97	69082	9.47 ppb	100
67)	2-Hexanone	7.09	43	235015	47.88 ppb	100
70)	1,2-EDB	7.30	107	68816	9.53 ppb	100
71)	Tetrachloroethene	6.99	166	85097	9.04 ppb	100
72)	1-Chlorohexane	7.75	91	98834	8.30 ppb	100
73)	1,1,1,2-Tetrachloroethane	7.84	131	69846	10.16 ppb	100
74)	m&p-Xylene	7.98	91	549927	19.65 ppb	100
75)	o-Xylene	8.35	91	277197	9.97 ppb	100
76)	Styrene	8.36	104	218405	9.09 ppb	100
78)	1,3-Dichloropropane	7.00	76	118362	9.61 ppb	100
79)	Dibromochloromethane	7.20	129	62507	8.78 ppb	100
80)	Chlorobenzene	7.76	112	226823	9.29 ppb	100
81)	Ethylbenzene	7.87	91	360195	9.39 ppb	100
82)	Bromoform	8.51	173	37230	8.18 ppb	100
84)	Isopropylbenzene	8.70	105	342490	8.88 ppb	100
85)	1,1,2,2-Tetrachloroethane	8.97	83	85413	9.19 ppb	100
86)	1,2,3-Trichloropropane	9.01	110	28472	9.56 ppb	100
87)	t-1,4-Dichloro-2-Butene	9.02	53	18953	8.71 ppb	100
88)	Bromobenzene	8.97	77	164682	9.37 ppb	100
89)	n-Propylbenzene	9.09	91	432534	9.55 ppb	100
90)	4-Ethyltoluene	9.21	105	375442	9.85 ppb	100
91)	2-Chlorotoluene	9.16	91	293421	9.46 ppb	100
92)	1,3,5-Trimethylbenzene	9.26	105	309394	9.98 ppb	100
93)	4-Chlorotoluene	9.27	91	301129	9.68 ppb	100
94)	Tert-Butylbenzene	9.58	119	256159	8.87 ppb	100
95)	1,2,4-Trimethylbenzene	9.63	105	314009	9.22 ppb	100
96)	Sec-Butylbenzene	9.79	105	404021	8.96 ppb	100
97)	p-Isopropyltoluene	9.94	119	343599	9.69 ppb	100
98)	Benzyl Chloride	10.10	91	107612	8.37 ppb	100
99)	1,3-DCB	9.88	146	189028	9.40 ppb	100
100)	1,4-DCB	9.97	146	193565	9.13 ppb	100
101)	n-Butylbenzene	10.33	91	314026	8.87 ppb	100
102)	1,2-DCB	10.33	146	176816	9.56 ppb	100
103)	Hexachloroethane	10.59	201	38081	8.64 ppb	100
104)	1,2-Dibromo-3-chloropropan	11.08	157	17123	8.67 ppb	100
105)	1,2,4-Trichlorobenzene	11.92	180	107053	8.64 ppb	100
106)	Hexachlorobutadiene	12.10	225	52290	9.28 ppb	100
107)	Naphthalene	12.15	128	253087	8.50 ppb	100
108)	1,2,3-Trichlorobenzene	12.39	180	103715	8.97 ppb	100

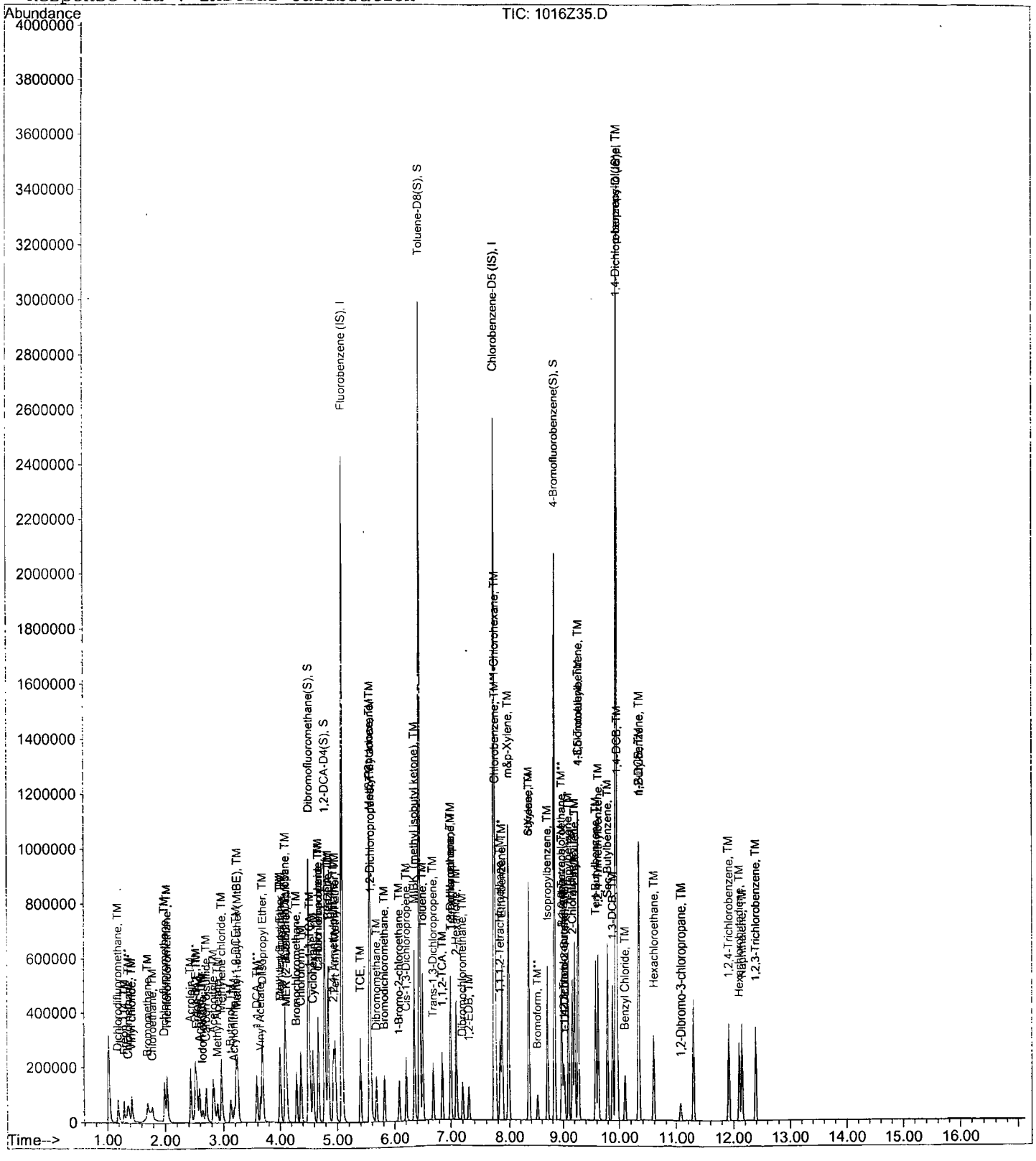
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z35.D Vial: 9
Acq On : 16 Oct 20 18:44 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z36.D Vial: 10
Acq On : 16 Oct 20 19:07 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1991993	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1373902	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	751754	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	1040472	54.60	ppb	0.00
Spiked Amount 25.000			Recovery = 218.384%			
48) 1,2-DCA-D4(S)	4.78	65	1061420	53.46	ppb	0.00
Spiked Amount 25.000			Recovery = 213.840%			
69) Toluene-D8(S)	6.45	98	3792704	55.67	ppb	0.00
Spiked Amount 25.000			Recovery = 222.664%			
77) 4-Bromofluorobenzene(S)	8.83	95	1335064	50.81	ppb	0.00
Spiked Amount 25.000			Recovery = 203.260%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.18	87	47903	19.99	ppb	97
4) Freon 114	1.29	85	55972	19.98	ppb	85
5) Chloromethane	1.37	50	198921	18.05	ppb	95
6) Vinyl chloride	1.43	62	165244	19.00	ppb	99
9) Bromomethane	1.70	94	44520	14.88	ppb	99
10) Chloroethane	1.78	64	62237	20.40	ppb	99
11) Dichlorofluoromethane	1.99	67	302267	18.27	ppb	99
12) Trichlorofluoromethane	2.03	101	234206	18.99	ppb	100
16) Acrolein	2.44	55	140070	149.24	ppb	93
17) Acetone	2.60	43	183965	53.55	ppb	98
18) Freon-113	2.54	101	160639	19.81	ppb	95
19) 1,1-DCE	2.52	61	251601	19.37	ppb	100
21) Acetonitrile	2.83	40	53786	132.47	ppb	95
22) t-Butanol	3.14	59	53392	145.30	ppb	98
23) Methyl Acetate	2.90	43	159576	17.57	ppb	97
24) Iodomethane	2.64	142	154571	18.89	ppb	97
25) Acrylonitrile	3.19	52	71241	19.44	ppb	98
26) Methylene chloride	2.97	84	212589	19.96	ppb	97
27) Carbon disulfide	2.70	76	238912	19.47	ppb	97
28) Methyl t-butyl ether (MtBE	3.25	73	434050	20.69	ppb	99
29) Trans-1,2-DCE	3.22	61	246668	19.28	ppb	95
31) Diisopropyl Ether	3.69	45	605274	21.45	ppb	98
33) 1,1-DCA	3.59	63	318674	19.32	ppb	98
34) Vinyl Acetate	3.65	43	281773	19.89	ppb	96
35) Ethyl tert Butyl Ether	4.01	59	492593	18.56	ppb	98
36) MEK (2-Butanone)	4.12	43	268338	61.39	ppb	99
37) Cis-1,2-DCE	4.09	61	288398	19.53	ppb	97
38) 2,2-Dichloropropane	4.09	77	217827	20.07	ppb	100
41) Chloroform	4.37	83	311401	19.50	ppb	99
42) Bromochloromethane	4.29	49	161038	19.32	ppb	94
44) 1,1,1-TCA	4.52	97	251445	19.84	ppb	95
45) Cyclohexane	4.58	56	286356	19.17	ppb	98
46) 1,1-Dichloropropene	4.67	75	233328	20.12	ppb	98
47) 2,2,4-Trimethylpentane	4.93	57	582711	18.68	ppb	99
49) Carbon Tetrachloride	4.67	117	203365	19.66	ppb	99
50) Tert Amyl Methyl Ether	4.97	73	429916	18.40	ppb	95
51) Methylcyclopentane	4.01	56	31990	20.17	ppb	100
52) 1,2-DCA	4.85	62	225739	18.82	ppb	99
53) Benzene	4.84	78	760131	19.50	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z36.D Vial: 10
Acq On : 16 Oct 20 19:07 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	210062	19.35	ppb		98
55)	2-Pentanone	5.55	43	1035374	167.90	ppb		99
56)	1,2-Dichloropropane	5.58	63	187059	19.64	ppb		99
57)	Bromodichloromethane	5.81	83	207259	20.59	ppb		99
58)	Methyl Cyclohexane	5.57	83	293753	20.53	ppb		94
59)	Dibromomethane	5.67	174	122718	19.41	ppb		94
60)	MIBK (methyl isobutyl ket	6.35	43	488931	58.50	ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	29397	19.80	ppb		99
63)	Cis-1,3-Dichloropropene	6.21	75	262578	18.29	ppb		97
64)	Toluene	6.51	91	783011	19.81	ppb		99
65)	Trans-1,3-Dichloropropene	6.69	75	221580	18.45	ppb		97
66)	1,1,2-TCA	6.85	97	158429	20.20	ppb		98
67)	2-Hexanone	7.09	43	328517	58.24	ppb		99
70)	1,2-EDB	7.30	107	160864	20.75	ppb	#	97
71)	Tetrachloroethene	6.99	166	199465	19.73	ppb		98
72)	1-Chlorohexane	7.75	91	244587	19.13	ppb		96
73)	1,1,1,2-Tetrachloroethane	7.84	131	166093	22.50	ppb		97
74)	m&p-Xylene	7.99	91	1277005	42.49	ppb		99
75)	o-Xylene	8.35	91	651701	21.83	ppb		100
76)	Styrene	8.36	104	525268	19.35	ppb		98
78)	1,3-Dichloropropane	7.00	76	269880	20.41	ppb		97
79)	Dibromochloromethane	7.20	129	154590	18.09	ppb		97
80)	Chlorobenzene	7.76	112	519466	19.81	ppb		99
81)	Ethylbenzene	7.87	91	848797	20.61	ppb		100
82)	Bromoform	8.51	173	97967	18.09	ppb		95
84)	Isopropylbenzene	8.70	105	835888	18.72	ppb		100
85)	1,1,2,2-Tetrachloroethane	8.97	83	203483	20.64	ppb		99
86)	1,2,3-Trichloropropane	9.01	110	64513	20.40	ppb		96
87)	t-1,4-Dichloro-2-Butene	9.02	53	47799	17.29	ppb		93
88)	Bromobenzene	8.97	77	374736	20.09	ppb		99
89)	n-Propylbenzene	9.09	91	1040116	21.64	ppb		99
90)	4-Ethyltoluene	9.21	105	890820	22.03	ppb		99
91)	2-Chlorotoluene	9.16	91	684397	20.80	ppb		99
92)	1,3,5-Trimethylbenzene	9.26	105	731941	22.24	ppb		100
93)	4-Chlorotoluene	9.27	91	697765	21.14	ppb		99
94)	Tert-Butylbenzene	9.58	119	625320	18.79	ppb		100
95)	1,2,4-Trimethylbenzene	9.63	105	734765	19.06	ppb		100
96)	Sec-Butylbenzene	9.79	105	986980	19.27	ppb		100
97)	p-Isopropyltoluene	9.94	119	825062	21.91	ppb		99
98)	Benzyl Chloride	10.10	91	280629	16.55	ppb		98
99)	1,3-DCB	9.88	146	432520	20.26	ppb		99
100)	1,4-DCB	9.97	146	443223	19.70	ppb		98
101)	n-Butylbenzene	10.33	91	786128	19.85	ppb		100
102)	1,2-DCB	10.33	146	408026	20.78	ppb		99
103)	Hexachloroethane	10.59	201	95431	16.83	ppb		86
104)	1,2-Dibromo-3-chloropropan	11.08	157	40539	16.51	ppb		92
105)	1,2,4-Trichlorobenzene	11.92	180	271764	18.84	ppb		97
106)	Hexachlorobutadiene	12.10	225	128685	21.51	ppb		98
107)	Naphthalene	12.15	128	648841	18.07	ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	250022	19.11	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

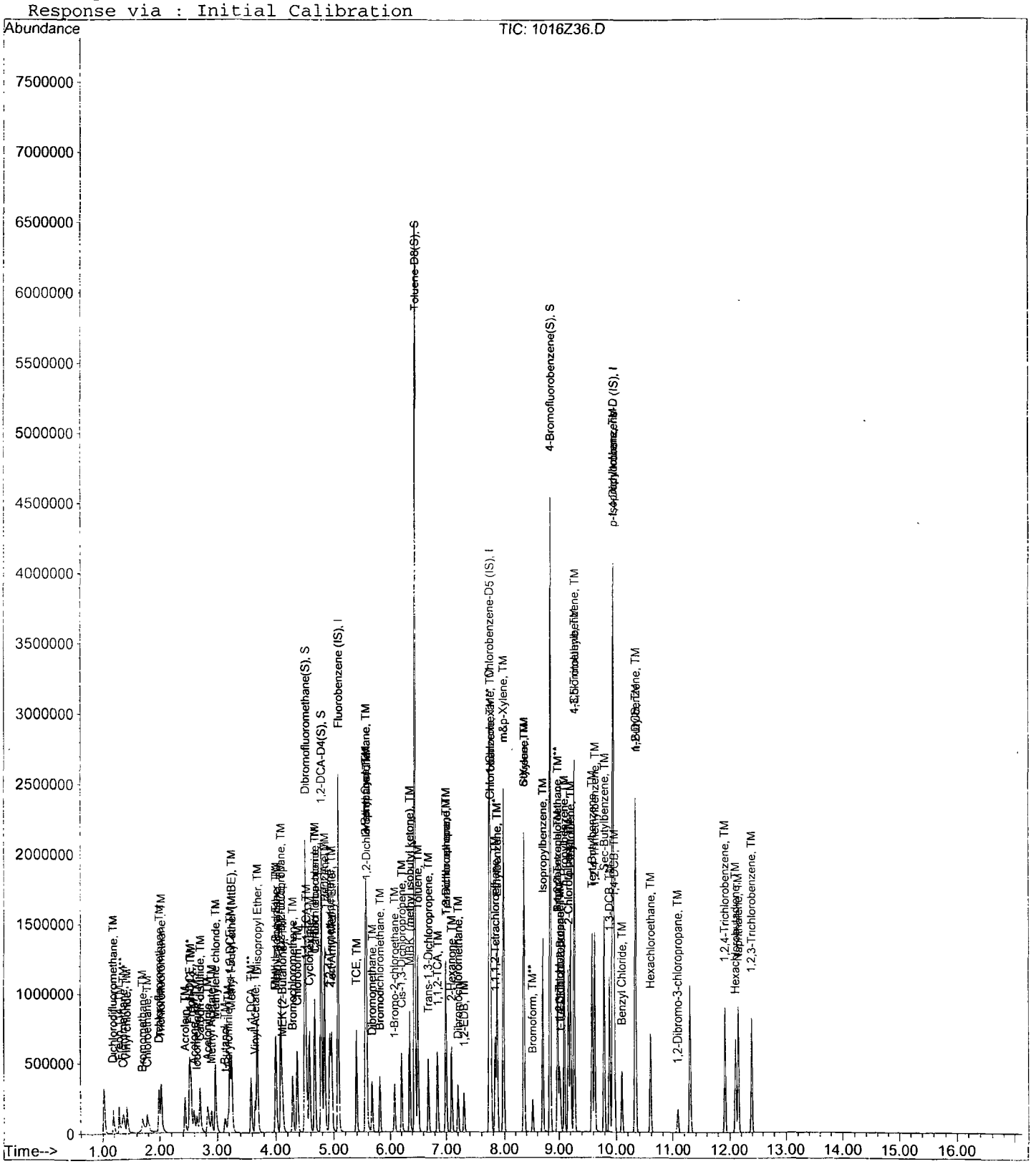
Data File : M:\ZEUS\DATA\201016\1016Z36.D
Acq On : 16 Oct 20 19:07
Sample : 20ug/L VOC STD 10/16/20
Misc :

Vial: 10
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 17 8:50 2020

Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z37.D Vial: 11
Acq On : 16 Oct 20 19:30 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2112823	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1466619	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	785320	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	1096262	54.23	ppb		0.00
Spiked Amount 25.000			Recovery = 216.936%				
48) 1,2-DCA-D4(S)	4.78	65	1112037	52.81	ppb		0.00
Spiked Amount 25.000			Recovery = 211.224%				
69) Toluene-D8(S)	6.45	98	4048681	55.67	ppb		0.00
Spiked Amount 25.000			Recovery = 222.664%				
77) 4-Bromofluorobenzene(S)	8.83	95	1444905	51.50	ppb		0.00
Spiked Amount 25.000			Recovery = 206.004%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	100047	39.46	ppb		97
4) Freon 114	1.29	85	111523	30.66	ppb		93
5) Chloromethane	1.37	50	441468	37.77	ppb		99
6) Vinyl chloride	1.43	62	371244	40.25	ppb		98
9) Bromomethane	1.70	94	95216	30.00	ppb		98
10) Chloroethane	1.78	64	123012	38.42	ppb		98
11) Dichlorofluoromethane	1.98	67	596375	33.98	ppb		98
12) Trichlorofluoromethane	2.02	101	497028	37.99	ppb		96
16) Acrolein	2.44	55	186700	187.55	ppb		99
17) Acetone	2.60	43	282588	77.55	ppb		98
18) Freon-113	2.54	101	342591	38.98	ppb		96
19) 1,1-DCE	2.52	61	557091	40.44	ppb		99
21) Acetonitrile	2.84	40	64206	149.09	ppb		97
22) t-Butanol	3.14	59	70464	180.79	ppb		99
23) Methyl Acetate	2.90	43	378052	39.25	ppb		98
24) Iodomethane	2.64	142	372413	41.03	ppb		95
25) Acrylonitrile	3.19	52	158577	40.79	ppb		98
26) Methylene chloride	2.97	84	449326	41.12	ppb		97
27) Carbon disulfide	2.70	76	533440	40.41	ppb		99
28) Methyl t-butyl ether (MtBE	3.25	73	1007068	45.27	ppb		100
29) Trans-1,2-DCE	3.22	61	544994	40.16	ppb		96
31) Diisopropyl Ether	3.69	45	1390486	46.45	ppb		100
33) 1,1-DCA	3.59	63	703741	40.22	ppb		99
34) Vinyl Acetate	3.65	43	654019	43.53	ppb		95
35) Ethyl tert Butyl Ether	4.01	59	1150412	39.36	ppb		99
36) MEK (2-Butanone)	4.12	43	439900	94.89	ppb		99
37) Cis-1,2-DCE	4.09	61	635957	40.60	ppb		97
38) 2,2-Dichloropropane	4.09	77	495216	43.02	ppb		98
41) Chloroform	4.37	83	682689	40.30	ppb		98
42) Bromochloromethane	4.29	49	353961	40.05	ppb		94
44) 1,1,1-TCA	4.52	97	552796	41.12	ppb		96
45) Cyclohexane	4.58	56	640847	38.98	ppb		99
46) 1,1-Dichloropropene	4.67	75	518947	42.19	ppb		99
47) 2,2,4-Trimethylpentane	4.93	57	1327253	38.34	ppb		98
49) Carbon Tetrachloride	4.67	117	461519	42.06	ppb		99
50) Tert Amyl Methyl Ether	4.96	73	1012599	39.22	ppb		91
51) Methylcyclopentane	4.00	56	65356	38.84	ppb	#	98
52) 1,2-DCA	4.85	62	486778	38.26	ppb		99
53) Benzene	4.84	78	1663087	40.22	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z37.D Vial: 11
Acq On : 16 Oct 20 19:30 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	466669	40.53	ppb		97
55)	2-Pentanone	5.56	43	1519807	232.37	ppb		98
56)	1,2-Dichloropropane	5.58	63	411473	40.74	ppb		99
57)	Bromodichloromethane	5.81	83	473801	44.38	ppb		99
58)	Methyl Cyclohexane	5.57	83	646576	42.60	ppb		95
59)	Dibromomethane	5.67	174	276086	41.18	ppb		95
60)	MIBK (methyl isobutyl ket	6.35	43	817539	80.75	ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	69334	44.02	ppb		96
63)	Cis-1,3-Dichloropropene	6.21	75	623531	39.30	ppb		98
64)	Toluene	6.51	91	1736495	41.42	ppb		98
65)	Trans-1,3-Dichloropropene	6.69	75	519037	39.03	ppb		98
66)	1,1,2-TCA	6.85	97	358914	43.14	ppb		100
67)	2-Hexanone	7.09	43	552507	80.84	ppb		98
70)	1,2-EDB	7.30	107	370406	44.75	ppb		97
71)	Tetrachloroethene	6.99	166	441703	40.93	ppb		98
72)	1-Chlorohexane	7.75	91	546006	40.01	ppb		95
73)	1,1,1,2-Tetrachloroethane	7.84	131	387561	49.19	ppb		96
74)	m&p-Xylene	7.98	91	2787506	86.88	ppb		100
75)	o-Xylene	8.35	91	1439432	45.17	ppb		99
76)	Styrene	8.36	104	1202575	40.56	ppb		99
78)	1,3-Dichloropropane	7.00	76	610727	43.27	ppb		99
79)	Dibromochloromethane	7.20	129	366905	38.21	ppb		97
80)	Chlorobenzene	7.76	112	1136892	40.61	ppb		98
81)	Ethylbenzene	7.87	91	1900882	43.24	ppb		99
82)	Bromoform	8.51	173	250184	41.39	ppb		94
84)	Isopropylbenzene	8.70	105	1887347	38.95	ppb		99
85)	1,1,2,2-Tetrachloroethane	8.97	83	468552	45.49	ppb		98
86)	1,2,3-Trichloropropane	9.01	110	150255	45.49	ppb		95
87)	t-1,4-Dichloro-2-Butene	9.03	53	120108	38.09	ppb	#	82
88)	Bromobenzene	8.97	77	841422	43.19	ppb		99
89)	n-Propylbenzene	9.10	91	2298959	45.79	ppb		98
90)	4-Ethyltoluene	9.21	105	1952080	46.20	ppb		100
91)	2-Chlorotoluene	9.16	91	1496262	43.53	ppb		99
92)	1,3,5-Trimethylbenzene	9.26	105	1595076	46.40	ppb		99
93)	4-Chlorotoluene	9.27	91	1506934	43.71	ppb		99
94)	Tert-Butylbenzene	9.58	119	1413837	39.22	ppb		99
95)	1,2,4-Trimethylbenzene	9.63	105	1627185	39.23	ppb		100
96)	Sec-Butylbenzene	9.79	105	2166984	39.37	ppb		100
97)	p-Isopropyltoluene	9.94	119	1815527	46.16	ppb		100
98)	Benzyl Chloride	10.10	91	713232	36.32	ppb		98
99)	1,3-DCB	9.88	146	941449	42.21	ppb		98
100)	1,4-DCB	9.97	146	957204	40.73	ppb		98
101)	n-Butylbenzene	10.33	91	1718172	40.66	ppb		98
102)	1,2-DCB	10.33	146	879769	42.88	ppb		99
103)	Hexachloroethane	10.59	201	234561	36.06	ppb	#	78
104)	1,2-Dibromo-3-chloropropan	11.08	157	104072	37.20	ppb		93
105)	1,2,4-Trichlorobenzene	11.91	180	612597	39.12	ppb		98
106)	Hexachlorobutadiene	12.11	225	284343	45.50	ppb		98
107)	Naphthalene	12.15	128	1562678	39.38	ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	556572	39.60	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

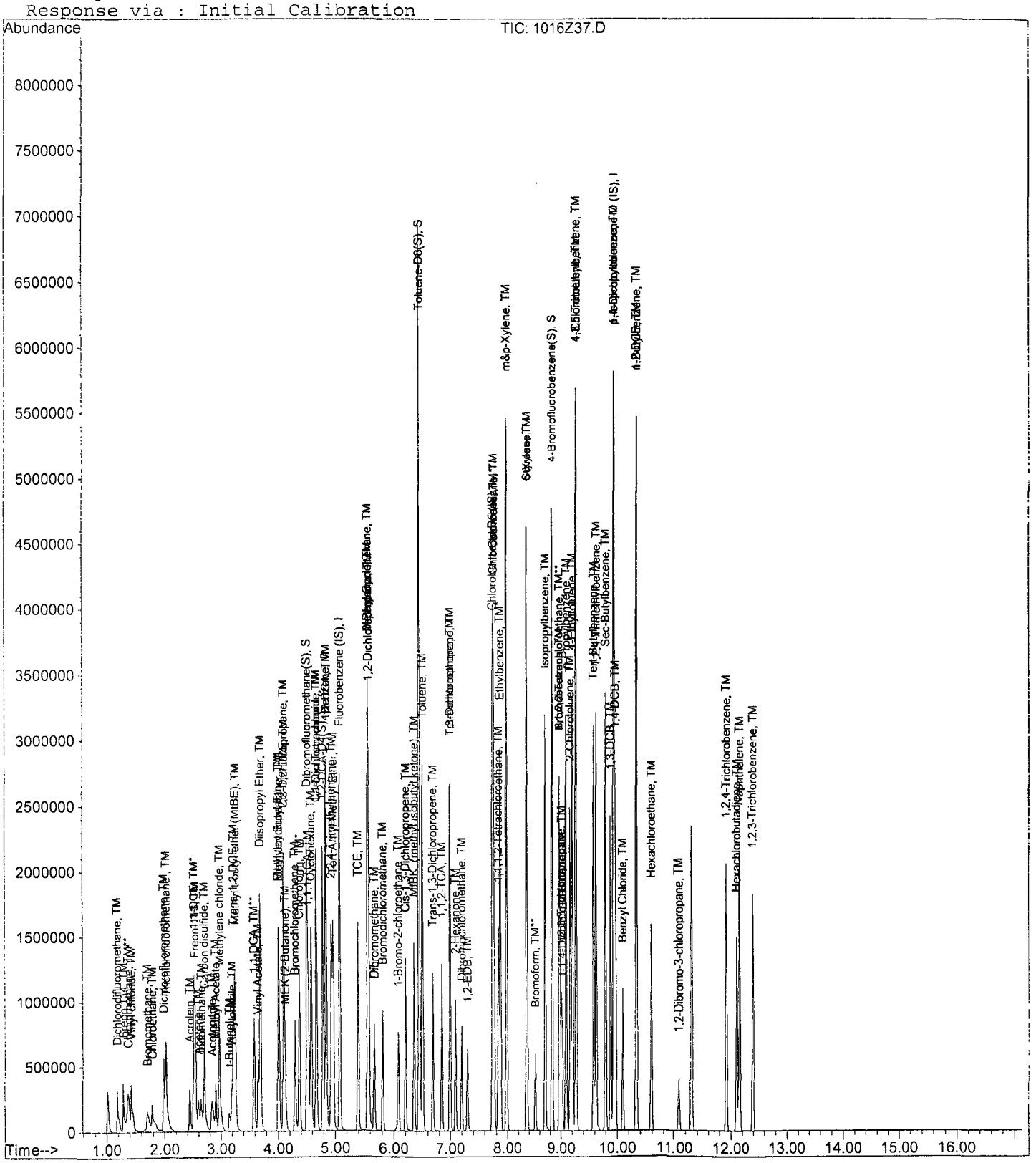
Data File : M:\ZEUS\DATA\201016\1016Z37.D
Acq On : 16 Oct 20 19:30
Sample : 40ug/L VOC STD 10/16/20
Misc :

Vial: 11
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 17 8:50 2020

Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z38.D Vial: 12
Acq On : 16 Oct 20 19:53 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2377031	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1646009	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	833768	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	2400807	105.57	ppb		0.00
Spiked Amount 25.000			Recovery = 422.280%				
48) 1,2-DCA-D4(S)	4.78	65	2421831	102.22	ppb		0.00
Spiked Amount 25.000			Recovery = 408.880%				
69) Toluene-D8(S)	6.45	98	8476397	103.84	ppb		0.00
Spiked Amount 25.000			Recovery = 415.368%				
77) 4-Bromofluorobenzene(S)	8.83	95	3149334	98.79	ppb		0.00
Spiked Amount 25.000			Recovery = 395.172%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	285484	100.23	ppb		96
4) Freon 114	1.29	85	267680	49.09	ppb		93
5) Chloromethane	1.38	50	1215134	92.41	ppb		99
6) Vinyl chloride	1.43	62	1080353	104.10	ppb		98
9) Bromomethane	1.70	94	241541	67.65	ppb		99
10) Chloroethane	1.78	64	290884	81.27	ppb		99
11) Dichlorofluoromethane	1.98	67	1012305	51.27	ppb		98
12) Trichlorofluoromethane	2.01	101	1208208	82.08	ppb		97
16) Acrolein	2.44	55	222281	198.47	ppb		97
17) Acetone	2.61	43	391567	95.52	ppb		98
18) Freon-113	2.53	101	1008525	100.61	ppb		95
19) 1,1-DCE	2.51	61	1590496	102.62	ppb		99
21) Acetonitrile	2.85	40	57937	119.58	ppb		95
22) t-Butanol	3.17	59	67328	153.54	ppb		92
23) Methyl Acetate	2.91	43	1102064	101.69	ppb		97
24) Iodomethane	2.64	142	1064947	101.98	ppb		98
25) Acrylonitrile	3.19	52	444671	101.67	ppb		98
26) Methylene chloride	2.96	84	1201926	99.63	ppb		98
27) Carbon disulfide	2.69	76	1498112	100.09	ppb		99
28) Methyl t-butyl ether (MtBE	3.26	73	2911088	116.31	ppb		100
29) Trans-1,2-DCE	3.21	61	1543938	101.12	ppb		92
31) Diisopropyl Ether	3.70	45	3972183	117.95	ppb		99
33) 1,1-DCA	3.59	63	1976123	100.40	ppb		99
34) Vinyl Acetate	3.65	43	1911173	113.06	ppb		96
35) Ethyl tert Butyl Ether	4.01	59	3376269	100.64	ppb		100
36) MEK (2-Butanone)	4.13	43	636945	122.12	ppb		99
37) Cis-1,2-DCE	4.09	61	1757325	99.73	ppb		97
38) 2,2-Dichloropropane	4.09	77	1414712	109.24	ppb		97
41) Chloroform	4.37	83	1886399	98.97	ppb		97
42) Bromochloromethane	4.29	49	978319	98.38	ppb		96
44) 1,1,1-TCA	4.52	97	1572514	103.96	ppb		96
45) Cyclohexane	4.58	56	1904018	100.75	ppb		99
46) 1,1-Dichloropropene	4.67	75	1464528	105.84	ppb		98
47) 2,2,4-Trimethylpentane	4.93	57	4038718	101.07	ppb		98
49) Carbon Tetrachloride	4.67	117	1346942	109.11	ppb		100
50) Tert Amyl Methyl Ether	4.97	73	2989253	100.72	ppb	#	88
51) Methylcyclopentane	4.01	56	169480	89.53	ppb	#	99
52) 1,2-DCA	4.85	62	1349246	94.25	ppb		98
53) Benzene	4.84	78	4512357	96.99	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z38.D Vial: 12
Acq On : 16 Oct 20 19:53 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	1331928	102.83	ppb		97
55)	2-Pentanone	5.56	43	2074980	281.99	ppb		99
56)	1,2-Dichloropropane	5.58	63	1127129	99.18	ppb		99
57)	Bromodichloromethane	5.81	83	1375914	114.55	ppb		98
58)	Methyl Cyclohexane	5.57	83	1874587	109.77	ppb		98
59)	Dibromomethane	5.67	174	774032	102.61	ppb		96
60)	MIBK (methyl isobutyl ket	6.35	43	1229317	98.24	ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	197202	111.28	ppb		100
63)	Cis-1,3-Dichloropropene	6.21	75	1836112	100.71	ppb		97
64)	Toluene	6.51	91	4805823	101.89	ppb		99
65)	Trans-1,3-Dichloropropene	6.69	75	1542439	100.79	ppb		97
66)	1,1,2-TCA	6.85	97	1019828	108.96	ppb		99
67)	2-Hexanone	7.09	43	820602	97.61	ppb		97
70)	1,2-EDB	7.30	107	1070448	115.23	ppb		97
71)	Tetrachloroethene	6.99	166	1236750	102.11	ppb		97
72)	1-Chlorohexane	7.75	91	1559327	101.82	ppb		97
73)	1,1,1,2-Tetrachloroethane	7.84	131	1118374	126.47	ppb		98
74)	m&p-Xylene	7.99	91	7391750	205.27	ppb		100
75)	o-Xylene	8.35	91	3927525	109.82	ppb		99
76)	Styrene	8.36	104	3286806	97.61	ppb		100
78)	1,3-Dichloropropane	7.00	76	1686715	106.47	ppb		99
79)	Dibromochloromethane	7.20	129	1120690	101.18	ppb		97
80)	Chlorobenzene	7.76	112	3070395	97.71	ppb		99
81)	Ethylbenzene	7.87	91	5300604	107.43	ppb		98
82)	Bromoform	8.52	173	793587	114.52	ppb		95
84)	Isopropylbenzene	8.70	105	5293435	100.76	ppb		99
85)	1,1,2,2-Tetrachloroethane	8.97	83	1314039	120.15	ppb		100
86)	1,2,3-Trichloropropane	9.01	110	431990	123.17	ppb		96
87)	t-1,4-Dichloro-2-Butene	9.03	53	353988	101.34	ppb	#	76
88)	Bromobenzene	8.98	77	2397193	115.90	ppb		96
89)	n-Propylbenzene	9.10	91	6299969	118.20	ppb		97
90)	4-Ethyltoluene	9.21	105	5368174	119.68	ppb		99
91)	2-Chlorotoluene	9.17	91	4206646	115.26	ppb		99
92)	1,3,5-Trimethylbenzene	9.27	105	4223630	115.71	ppb		100
93)	4-Chlorotoluene	9.27	91	4015065	109.70	ppb		96
94)	Tert-Butylbenzene	9.58	119	3929533	100.65	ppb		97
95)	1,2,4-Trimethylbenzene	9.63	105	4502227	100.55	ppb		99
96)	Sec-Butylbenzene	9.79	105	5969995	100.49	ppb		100
97)	p-Isopropyltoluene	9.94	119	4931078	118.08	ppb		99
98)	Benzyl Chloride	10.10	91	2244525	102.25	ppb		99
99)	1,3-DCB	9.88	146	2606410	110.06	ppb		99
100)	1,4-DCB	9.97	146	2637548	105.70	ppb		100
101)	n-Butylbenzene	10.34	91	4533888	99.89	ppb		97
102)	1,2-DCB	10.33	146	2327033	106.84	ppb		97
103)	Hexachloroethane	10.59	201	742180	102.27	ppb	#	72
104)	1,2-Dibromo-3-chloropropan	11.08	157	315315	101.88	ppb		92
105)	1,2,4-Trichlorobenzene	11.92	180	1709995	100.70	ppb		97
106)	Hexachlorobutadiene	12.11	225	781448	117.78	ppb		98
107)	Naphthalene	12.15	128	4364028	100.76	ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	1521735	100.42	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

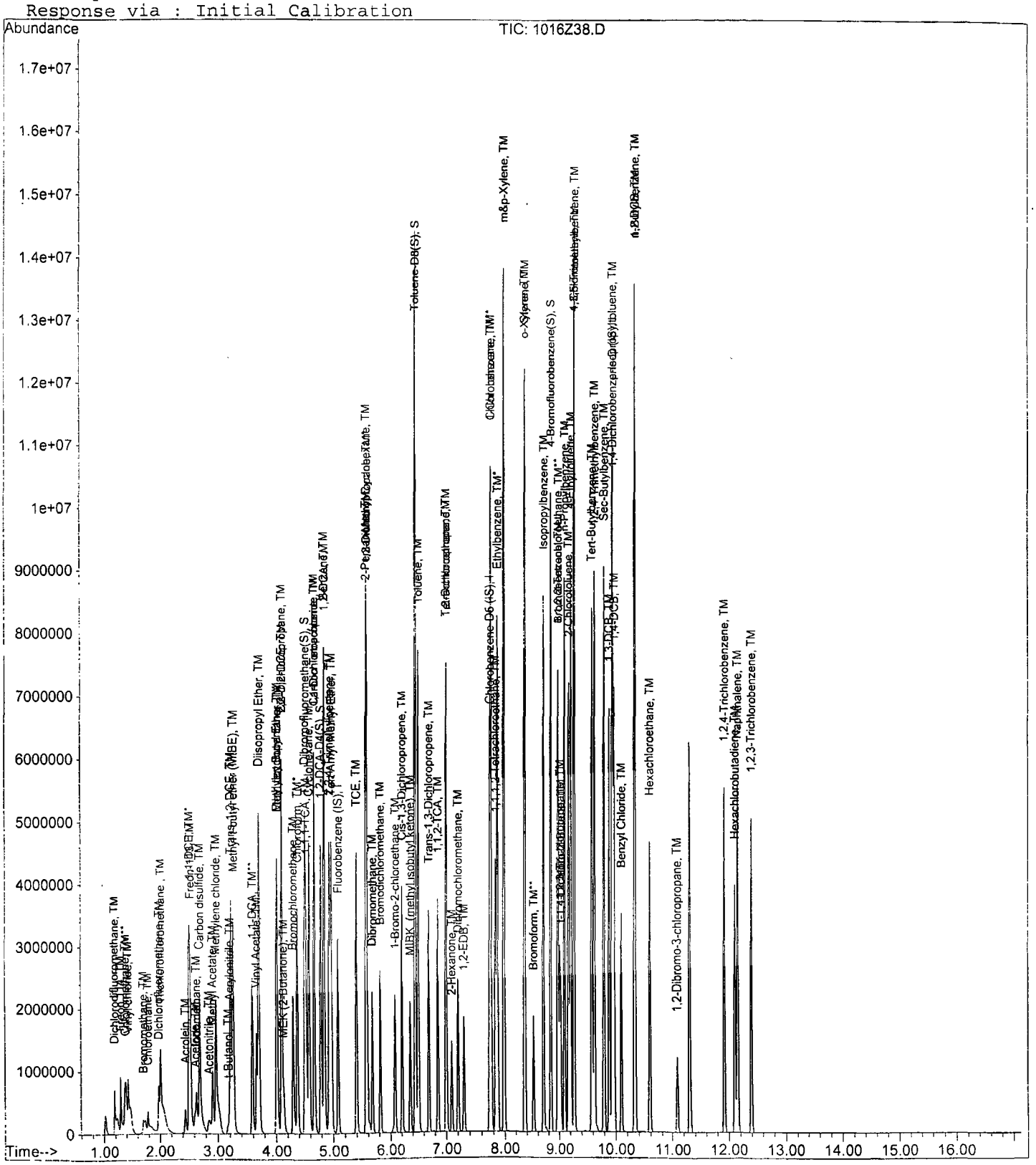
Data File : M:\ZEUS\DATA\201016\1016Z38.D
Acq On : 16 Oct 20 19:53
Sample : 100ug/L VOC STD 10/16/20
Misc :

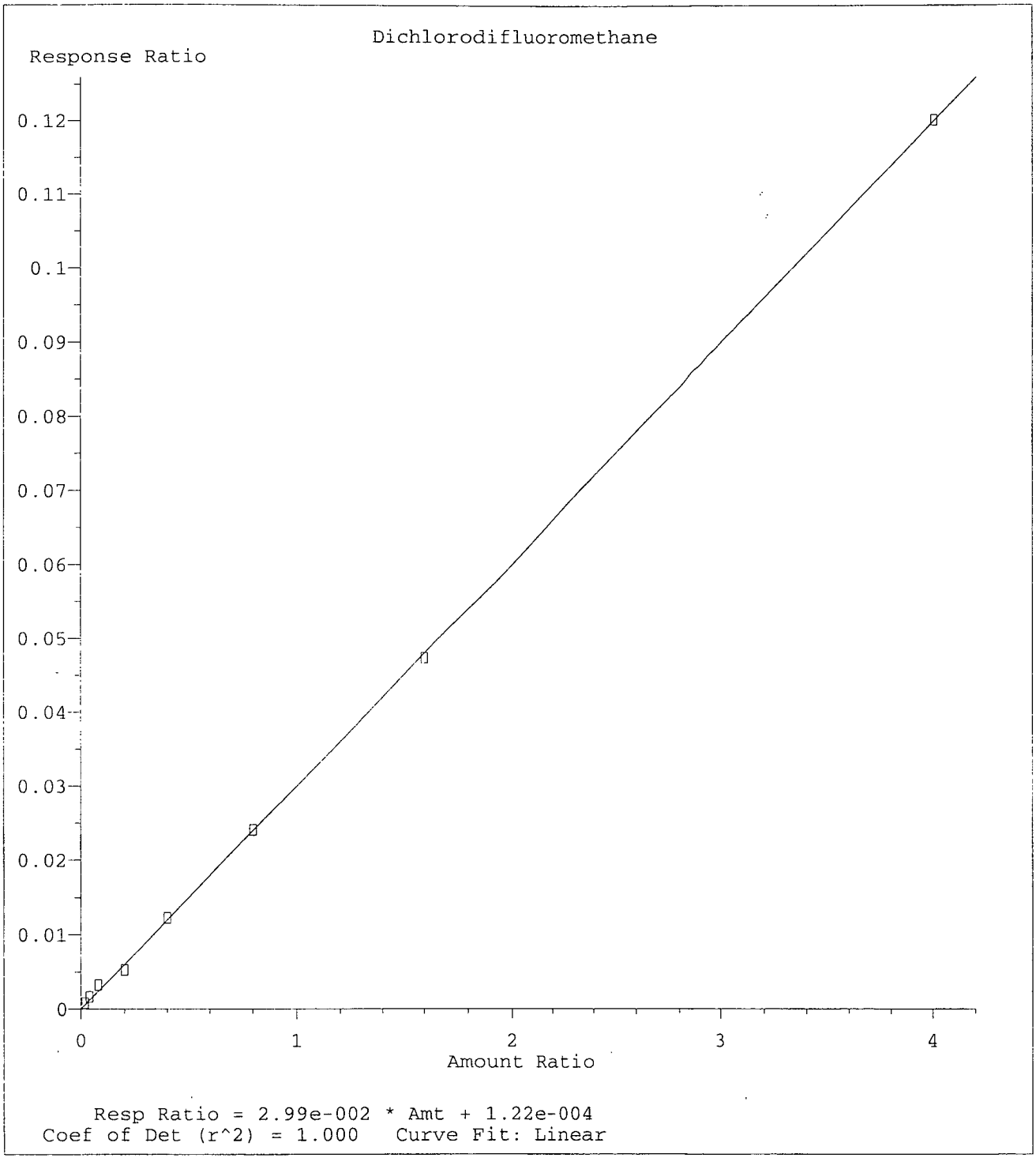
Vial: 12
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 17 8:50 2020

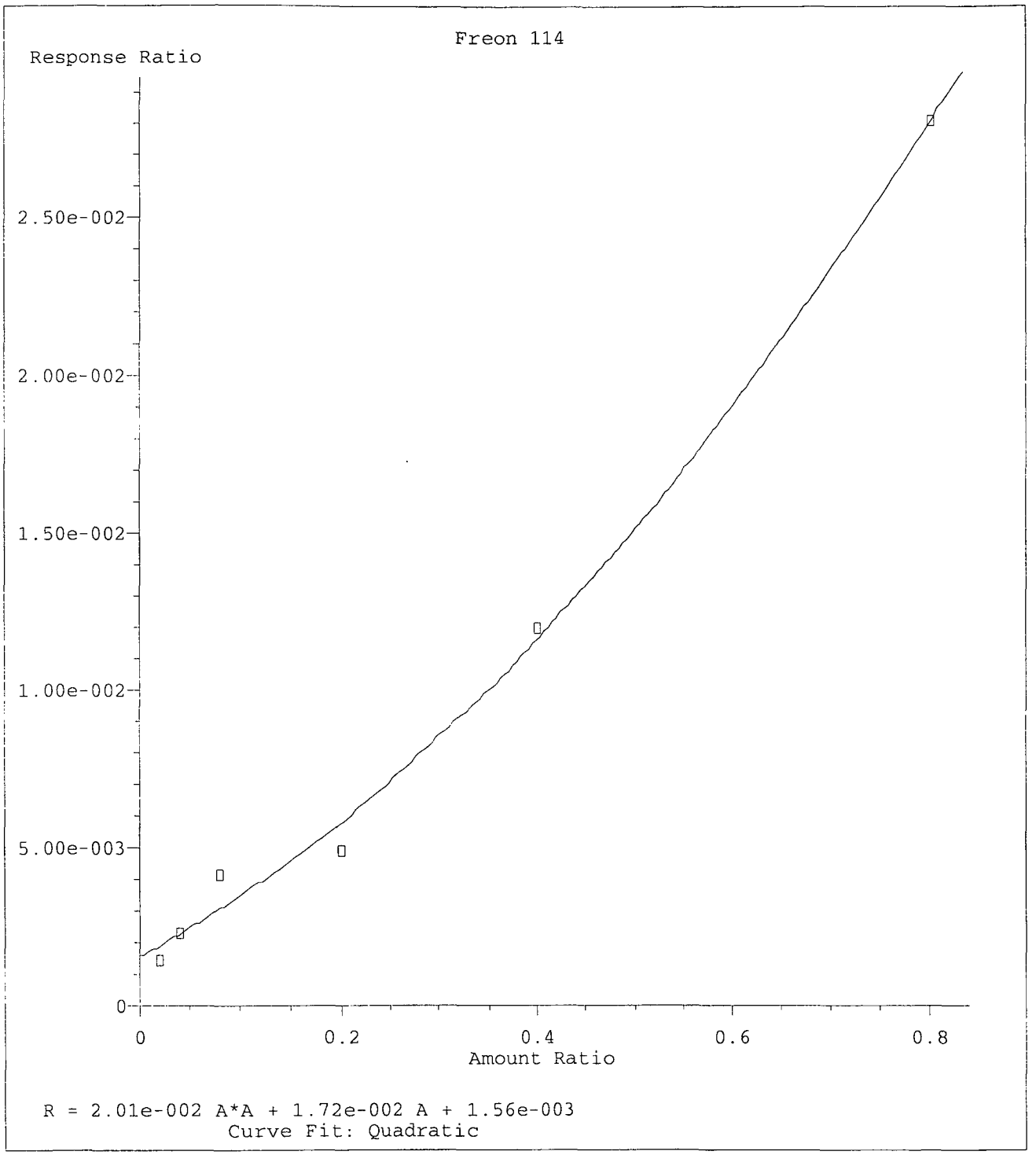
Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration

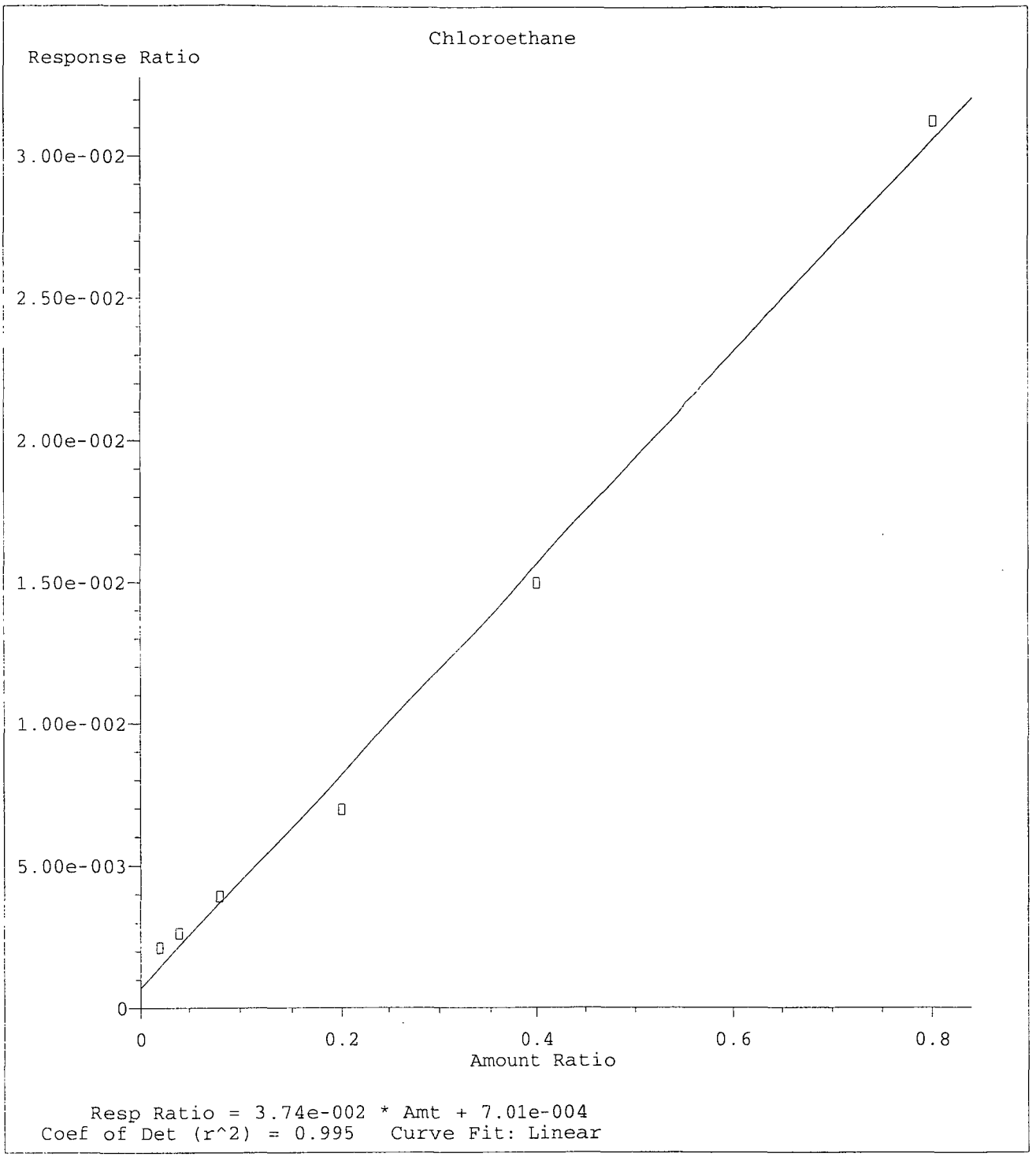




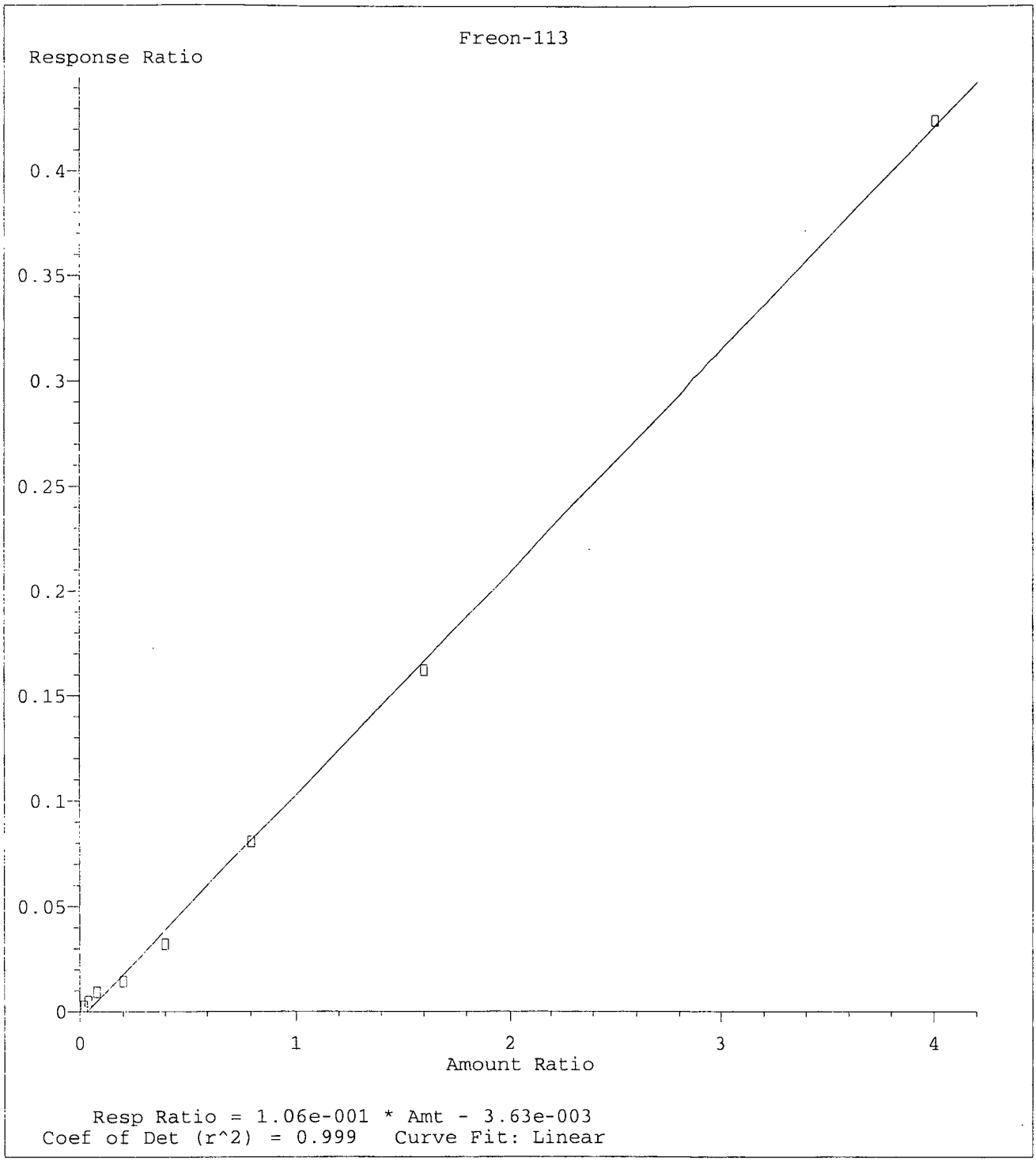
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



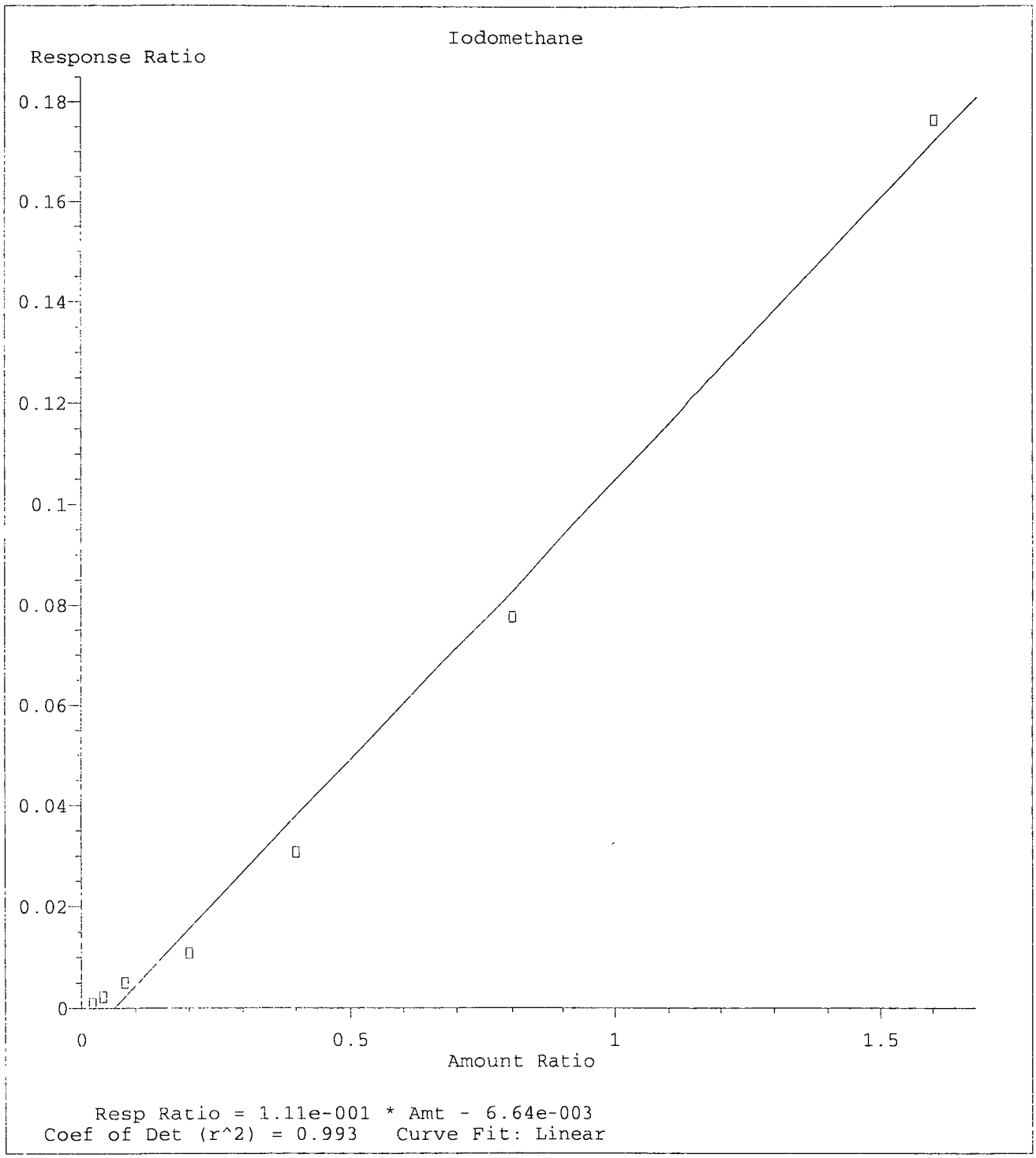
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



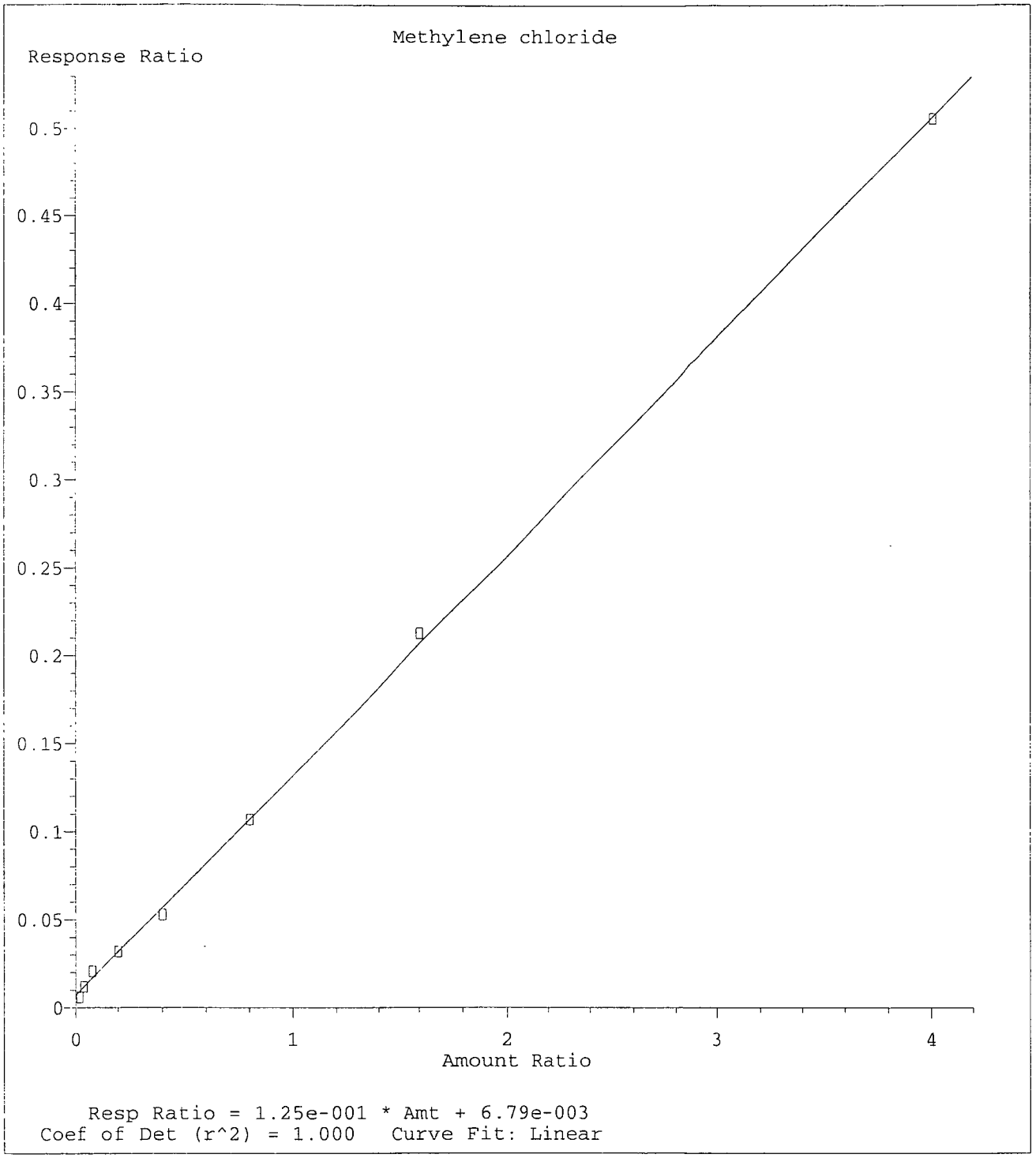
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



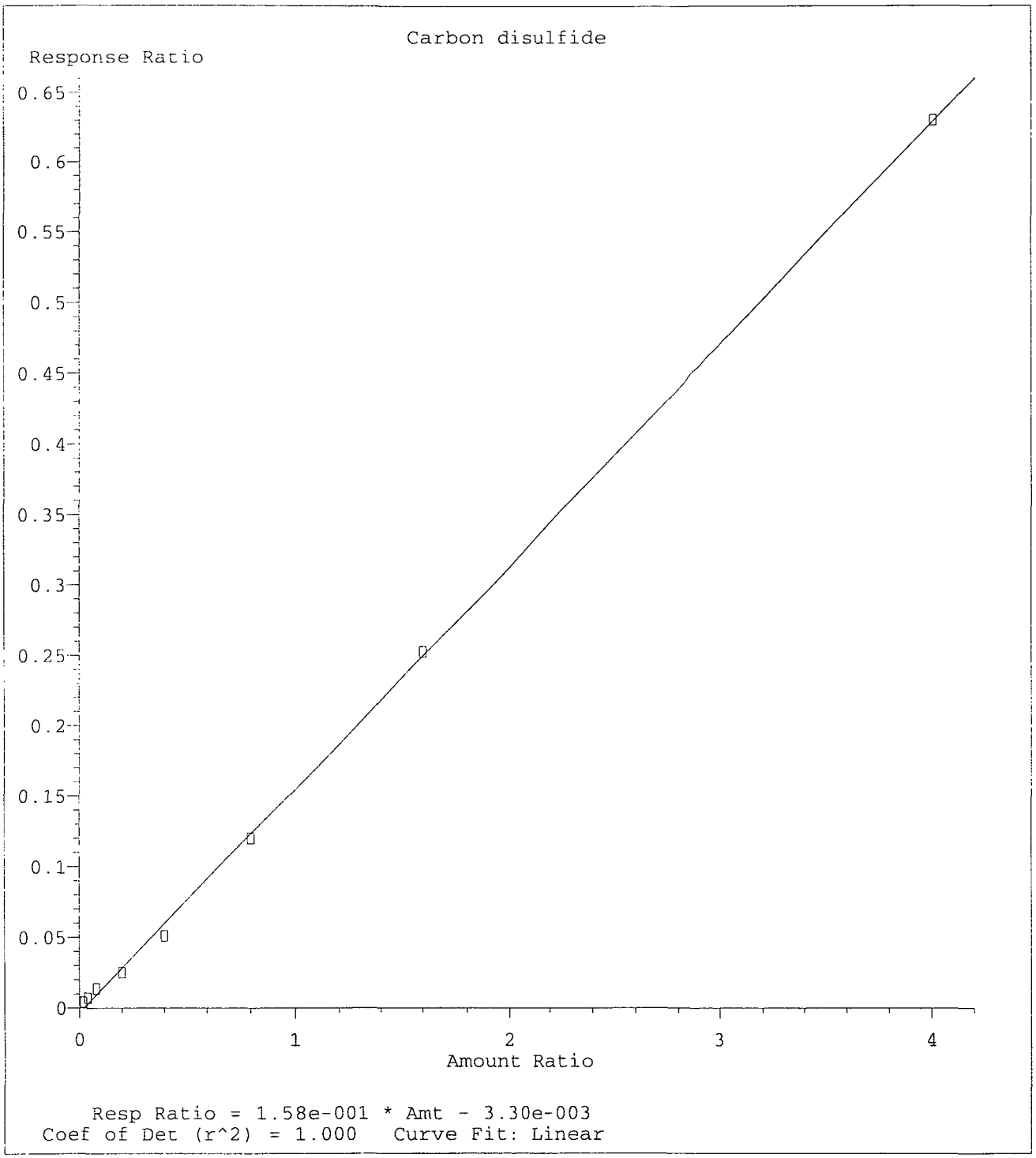
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



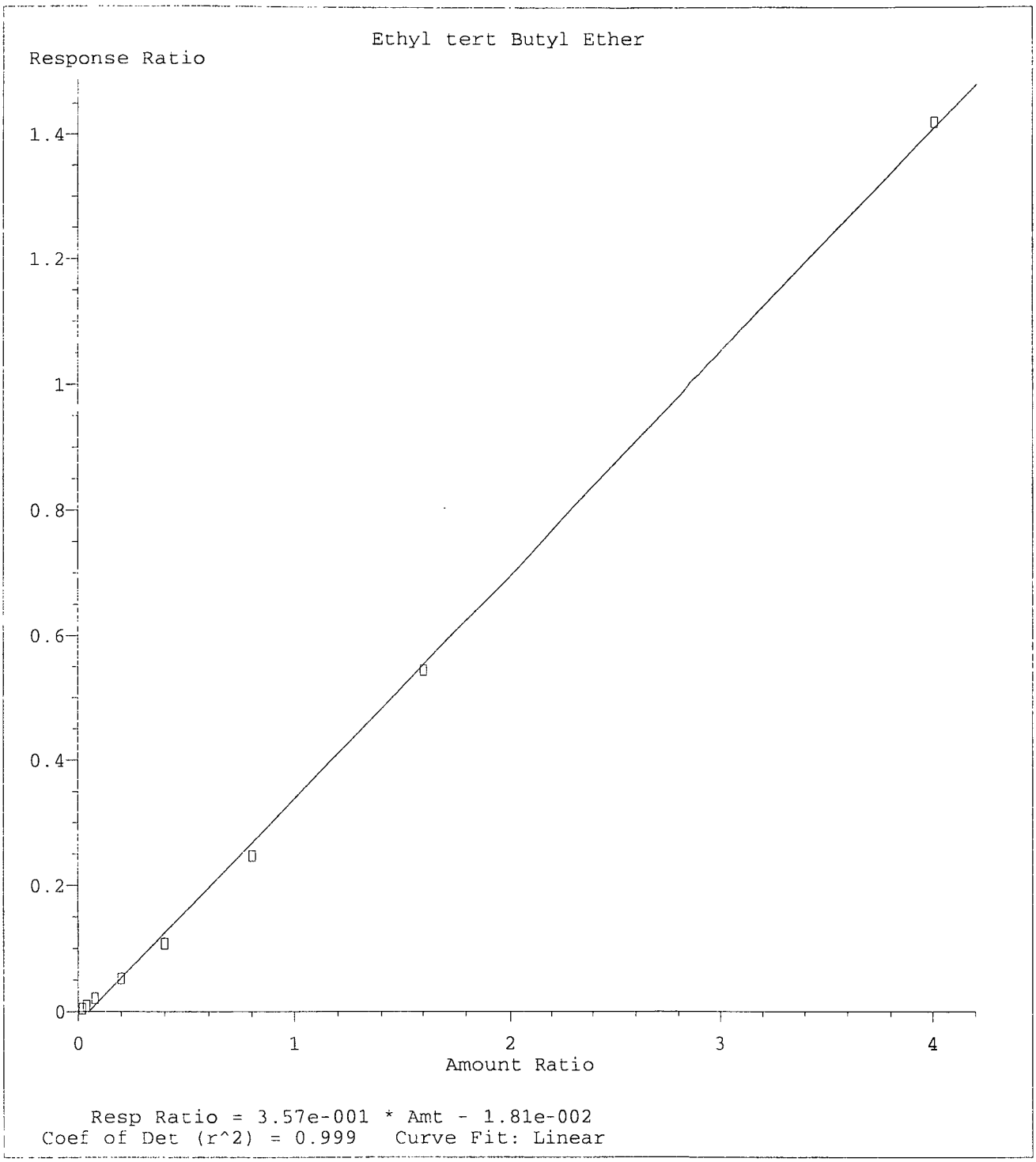
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



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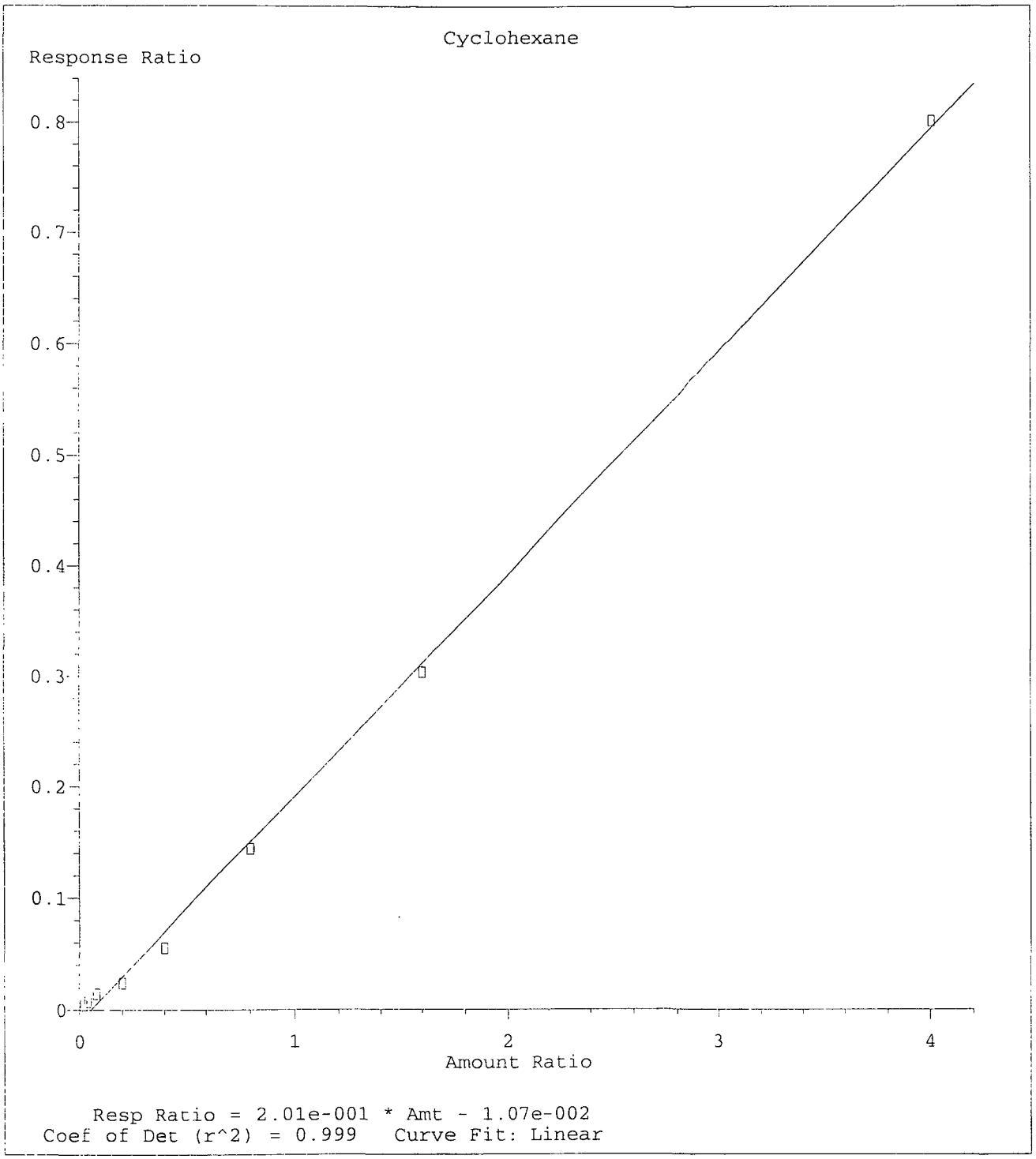
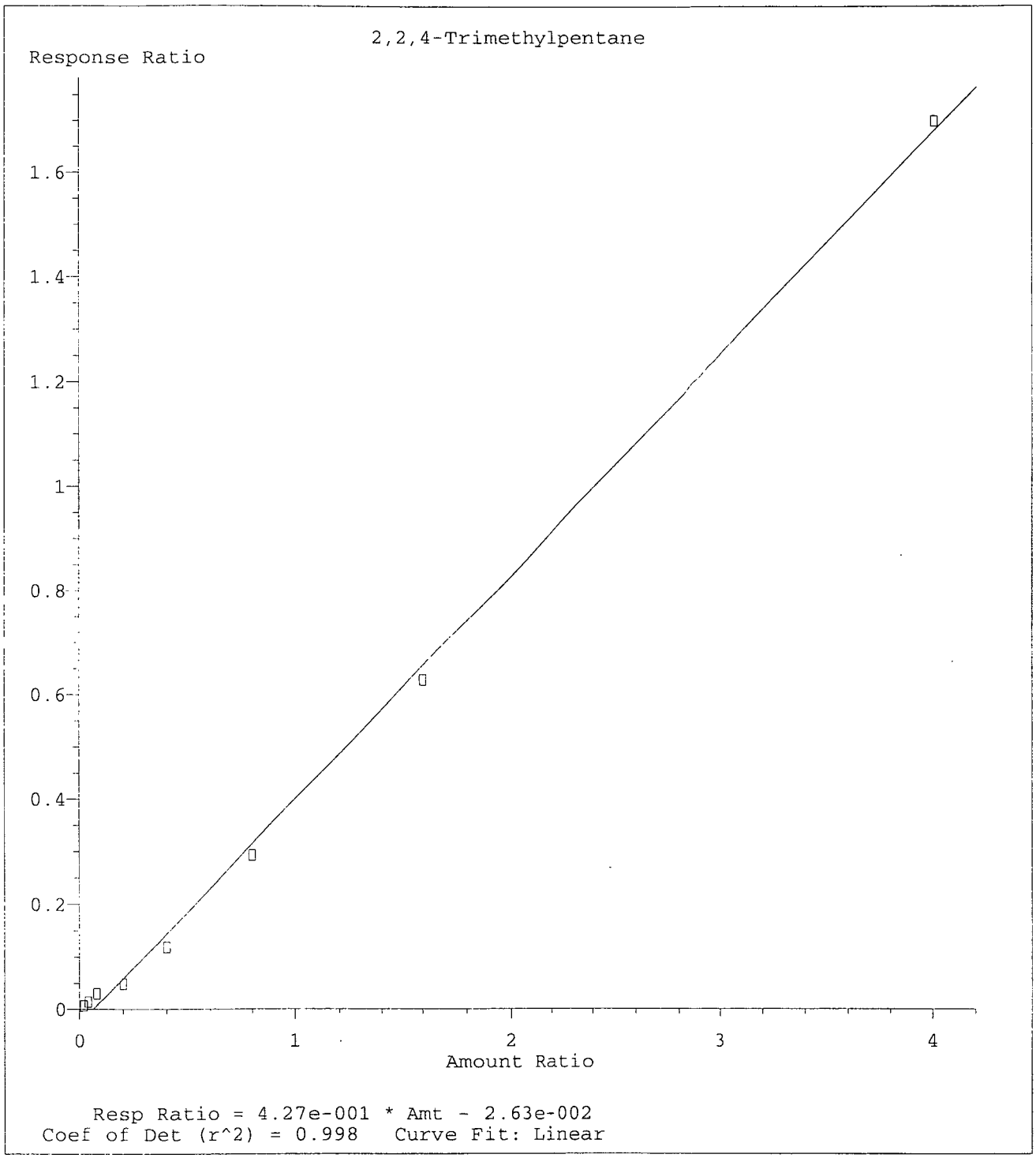
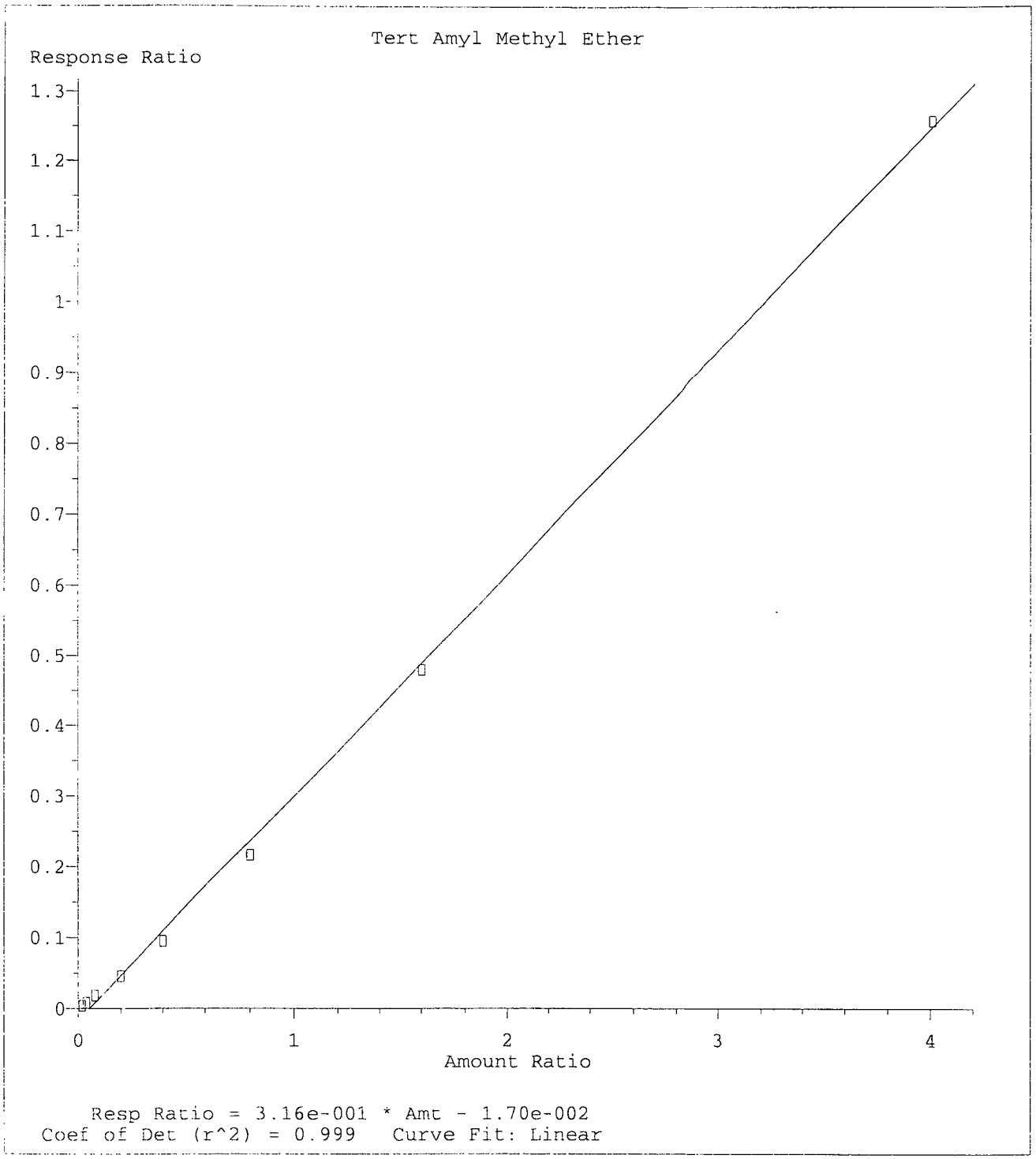
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



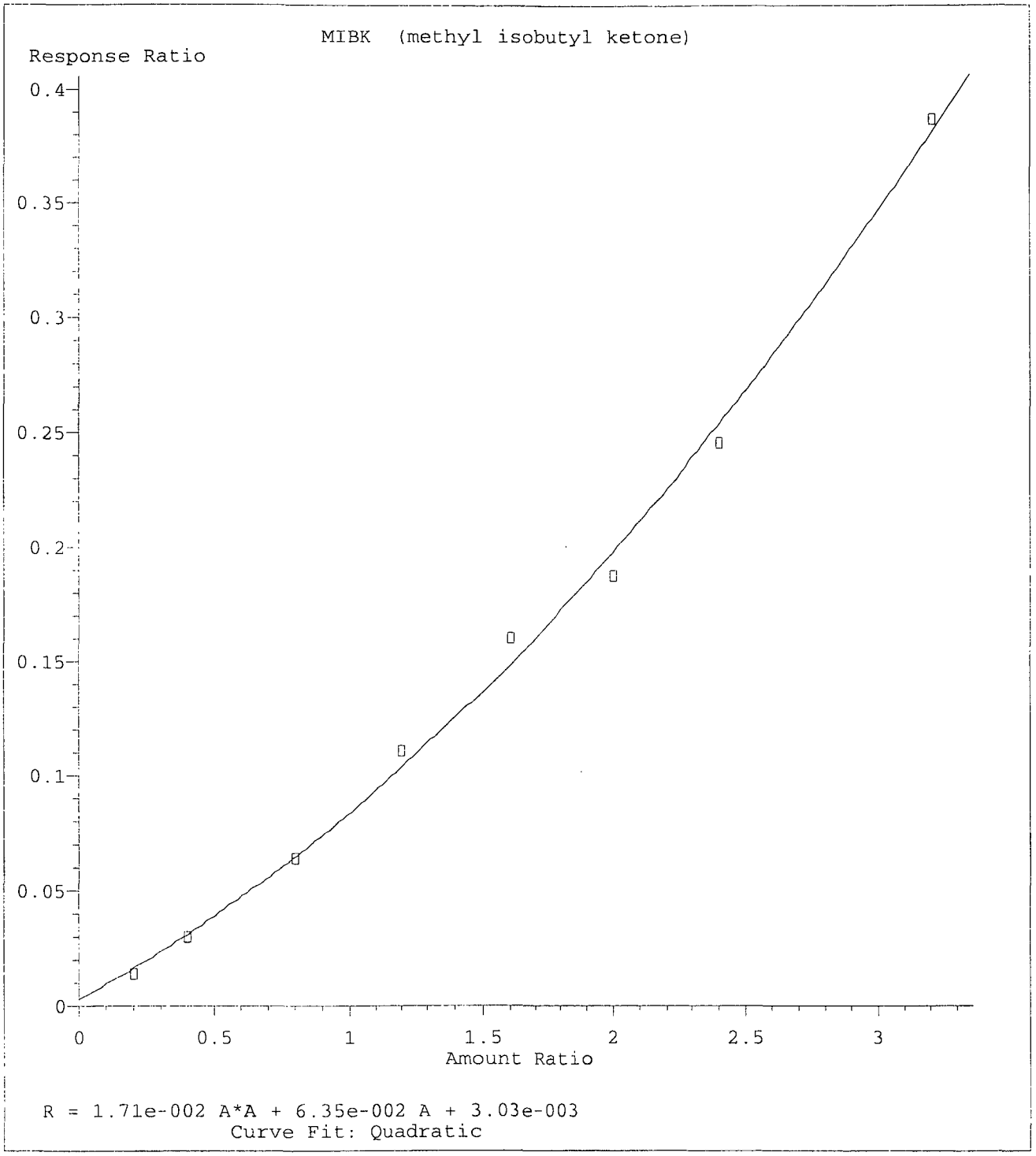
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



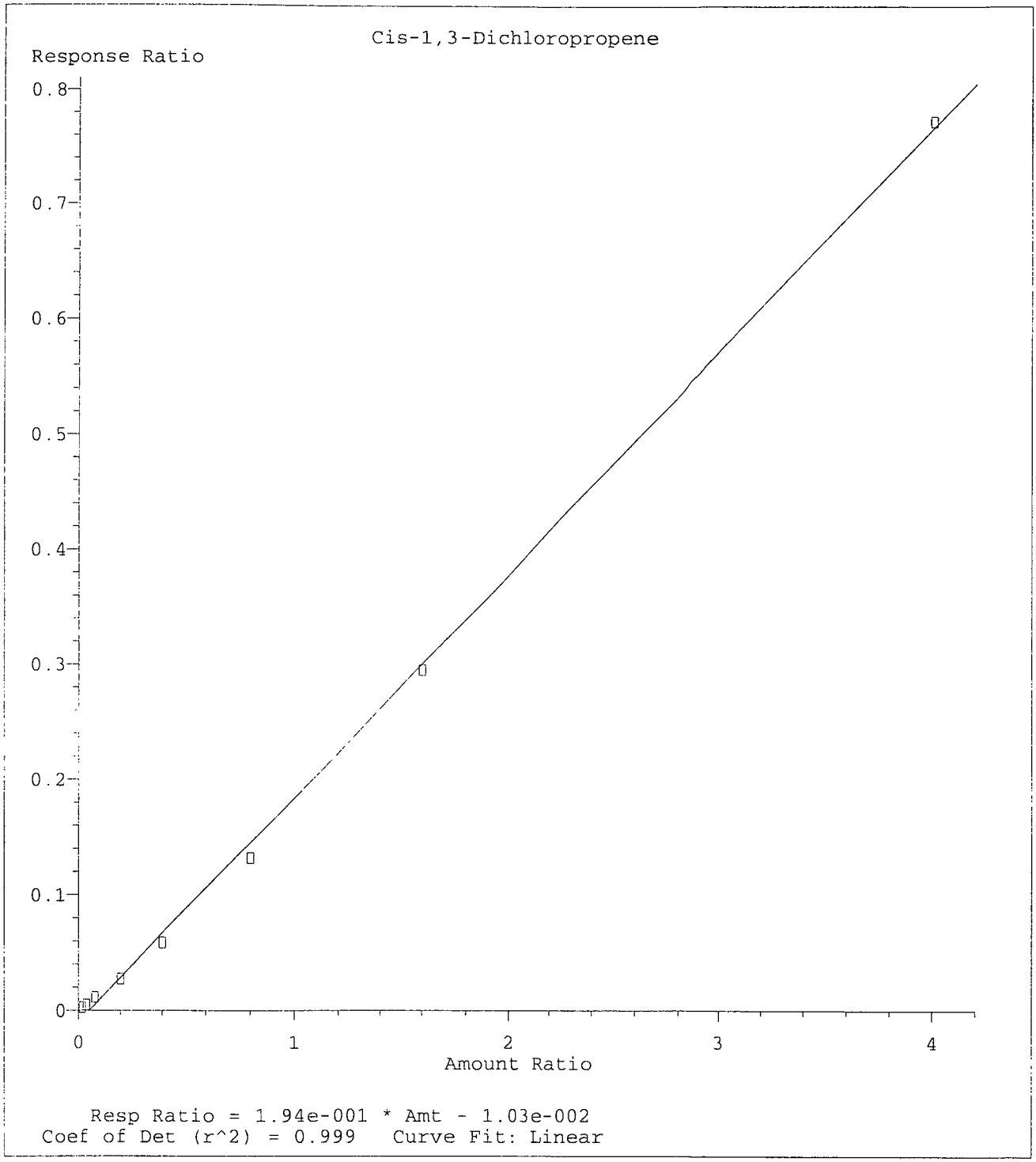
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



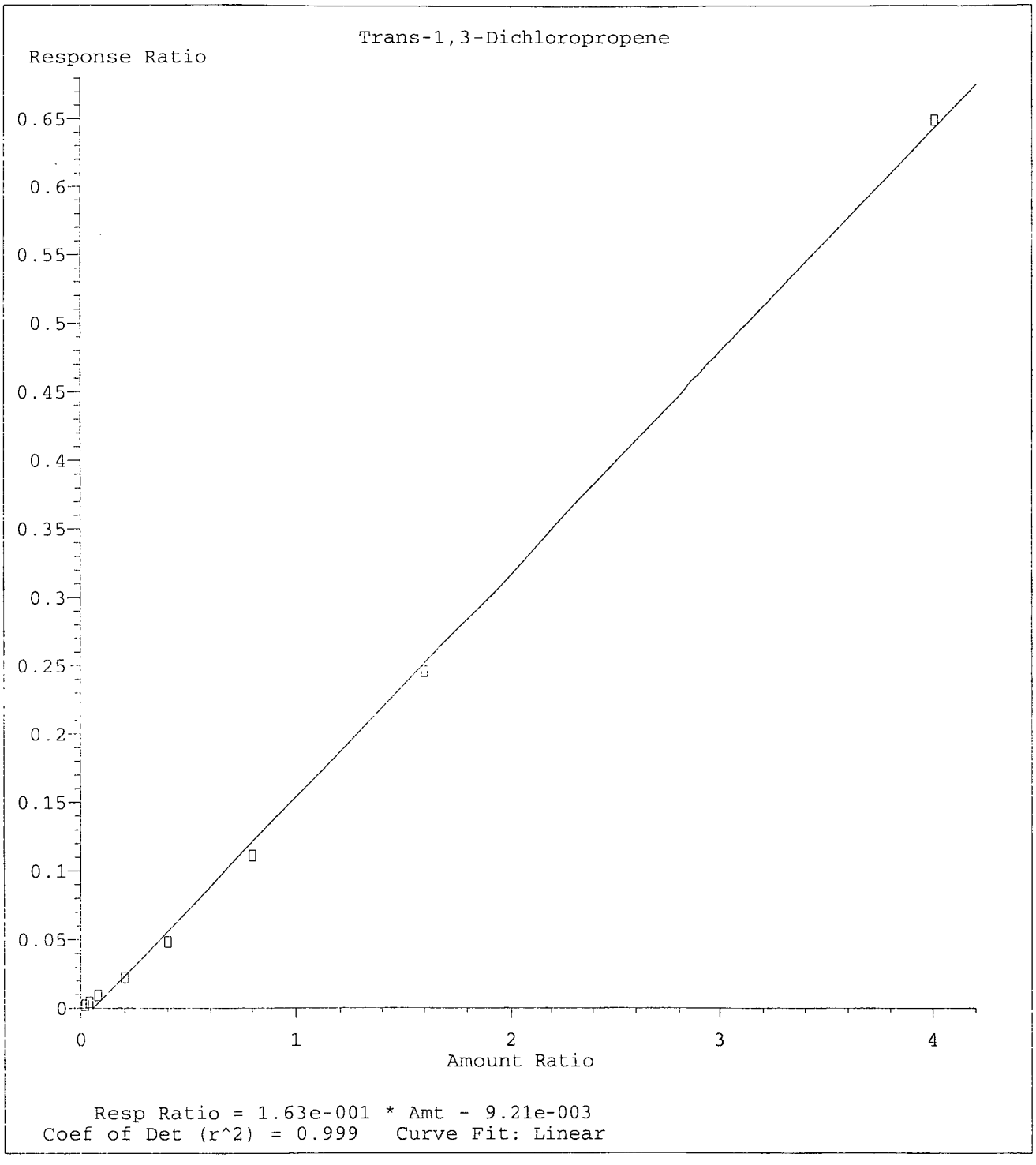
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



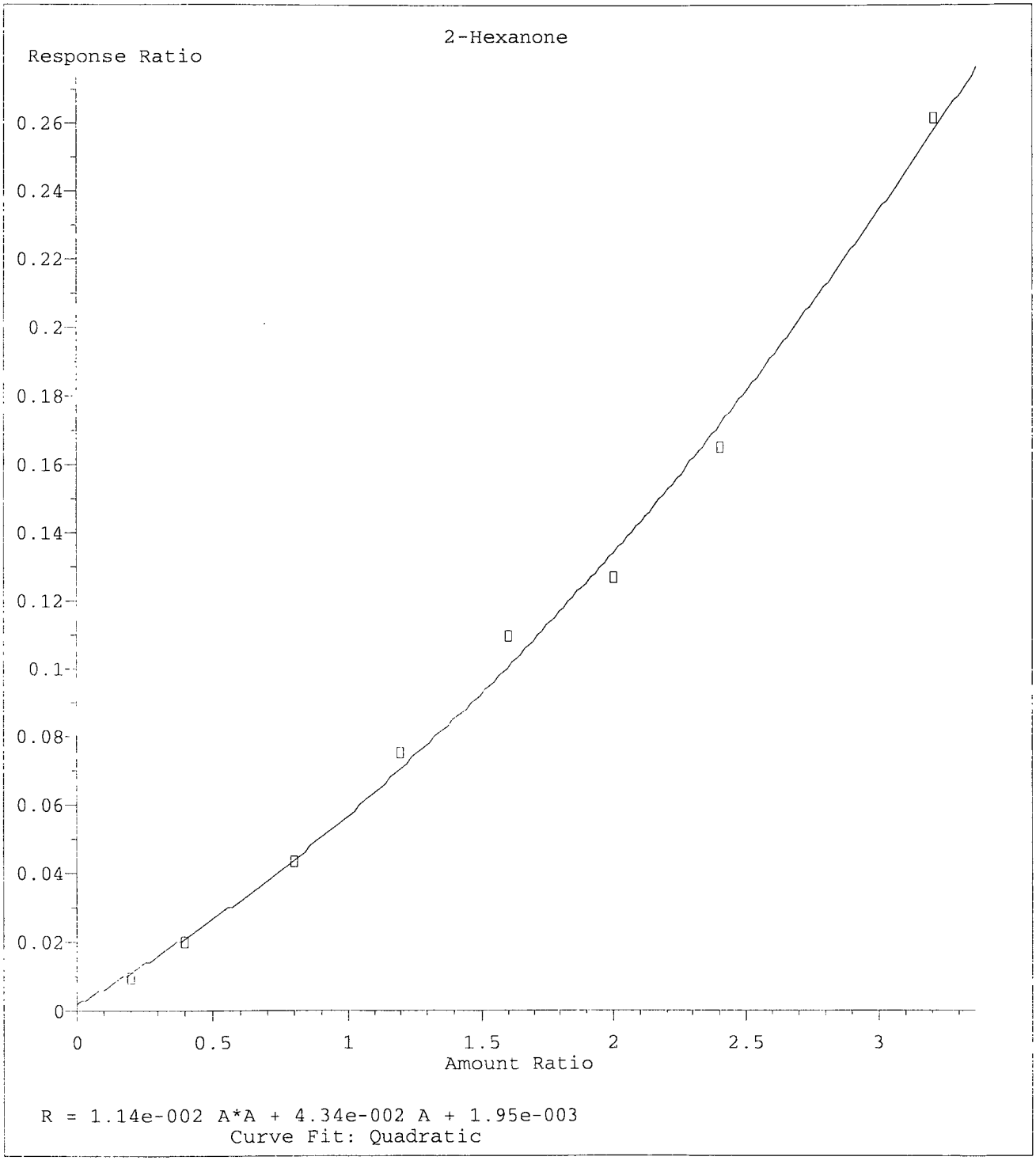
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



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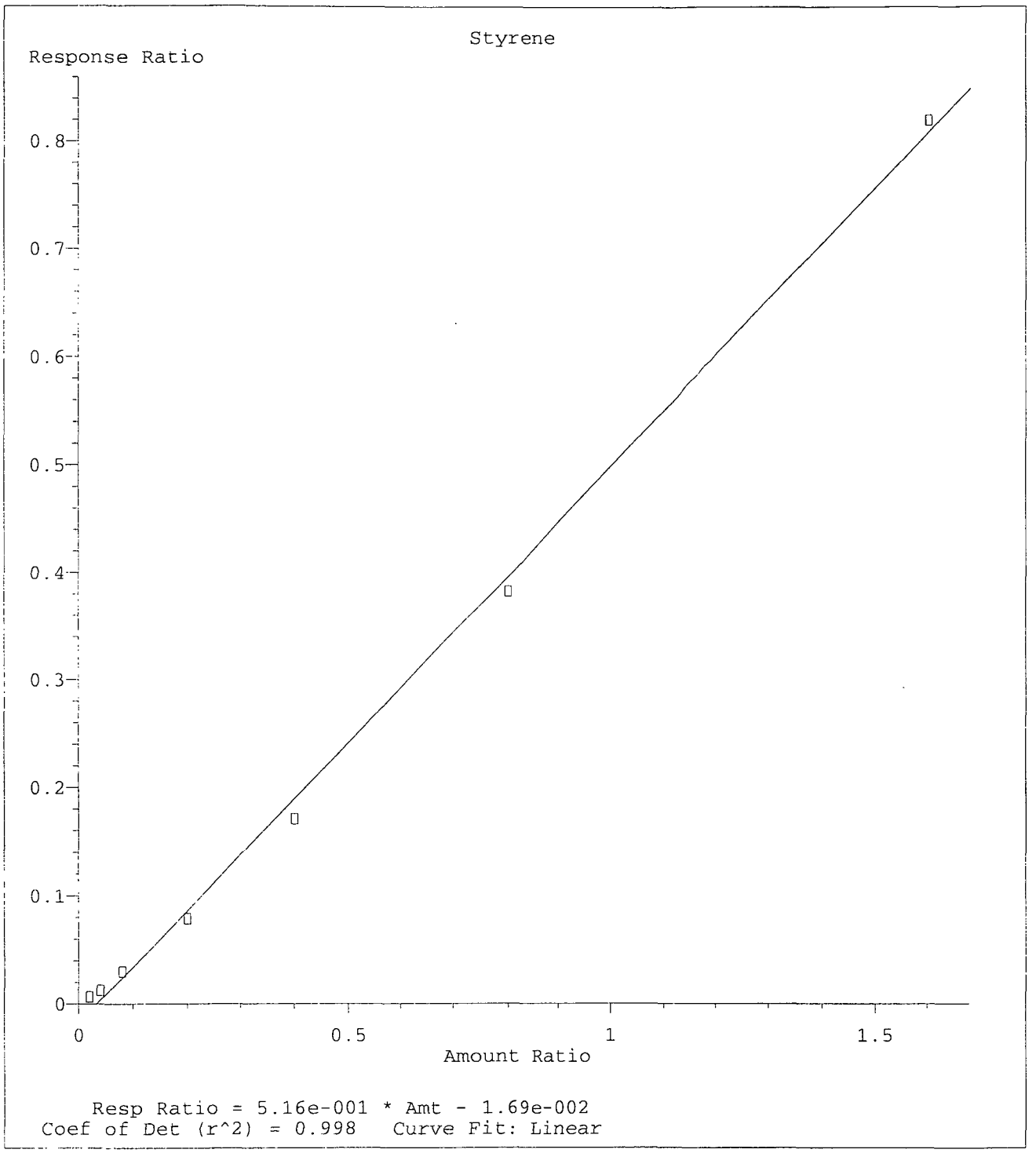
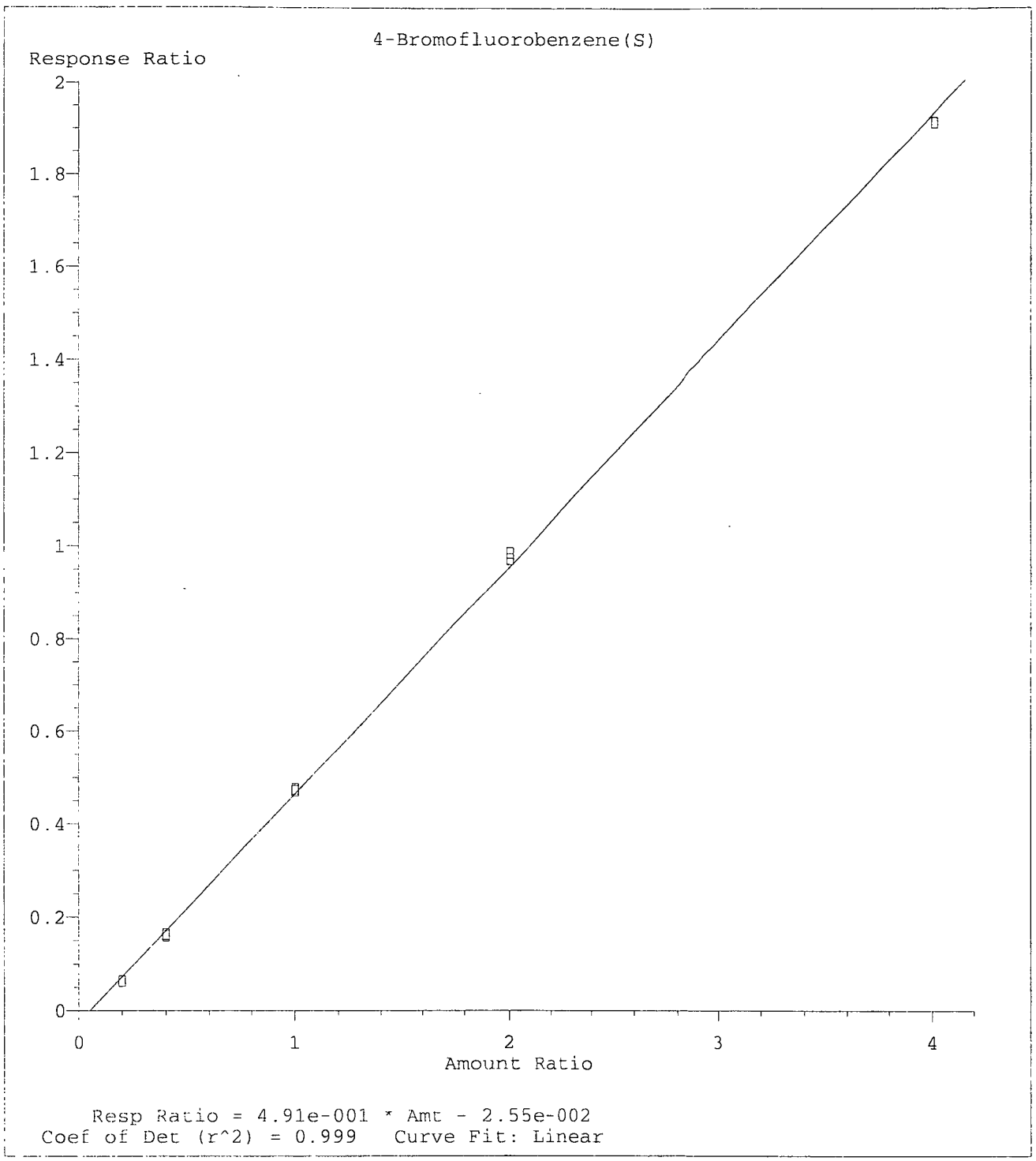
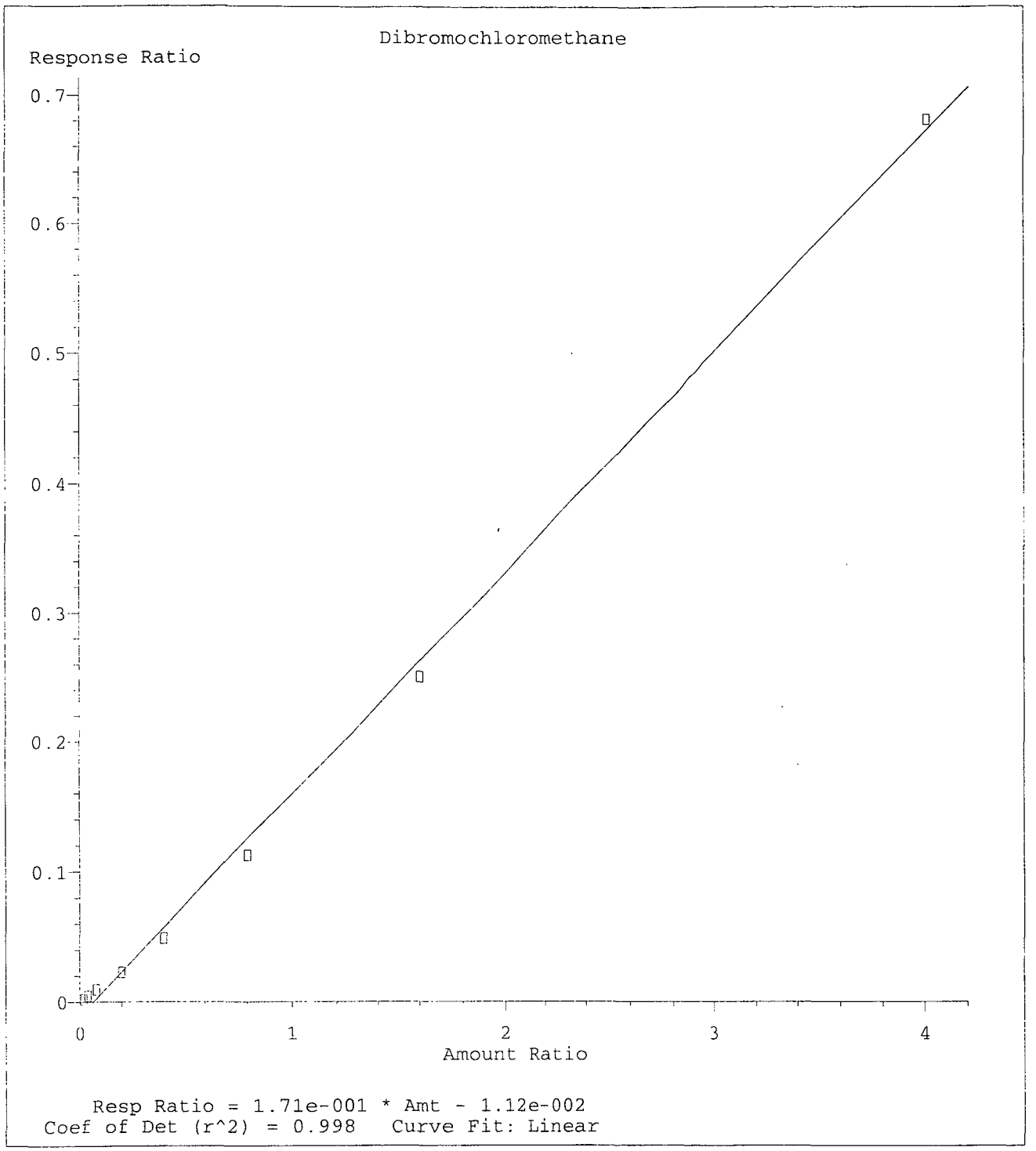
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



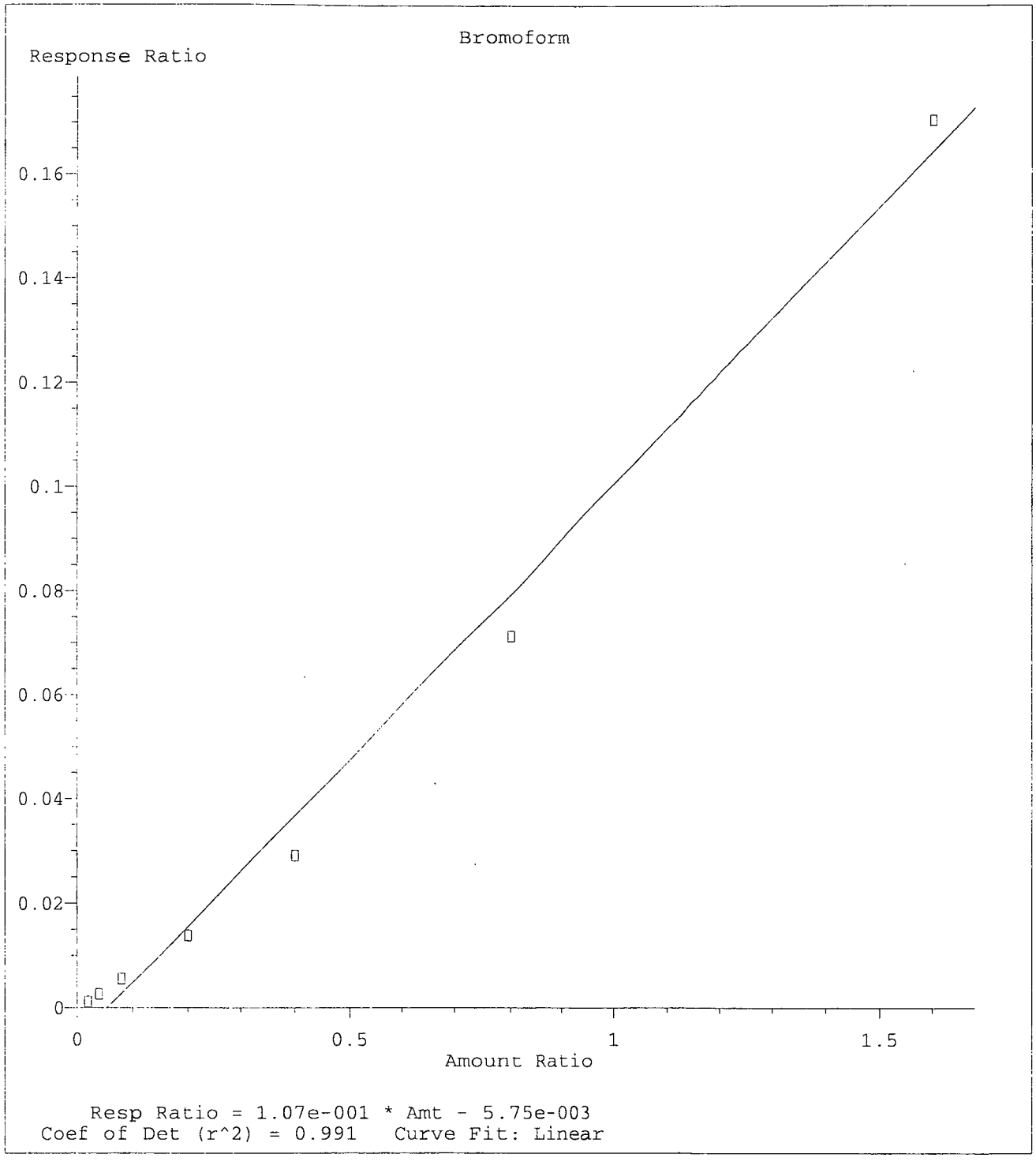
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



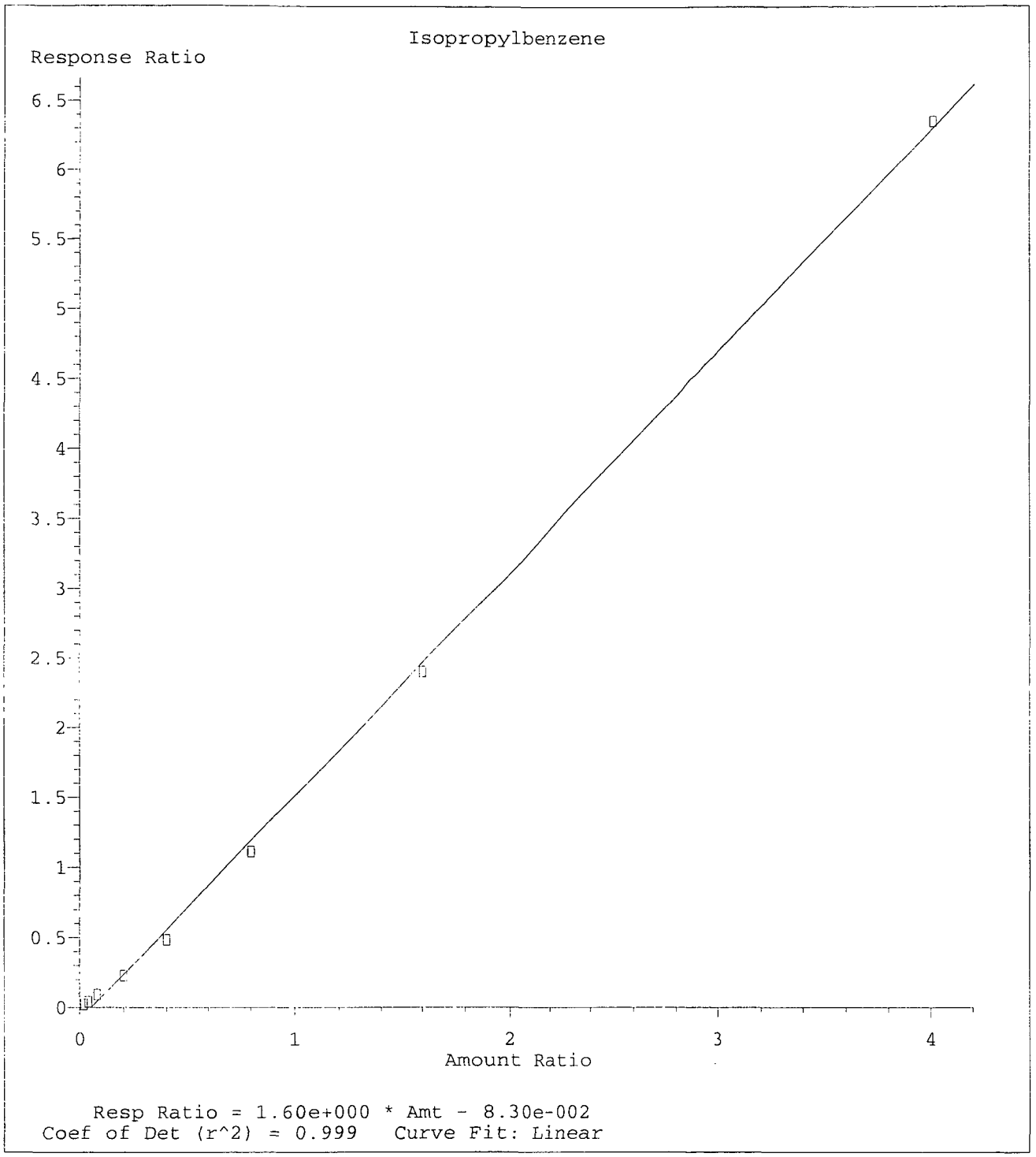
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



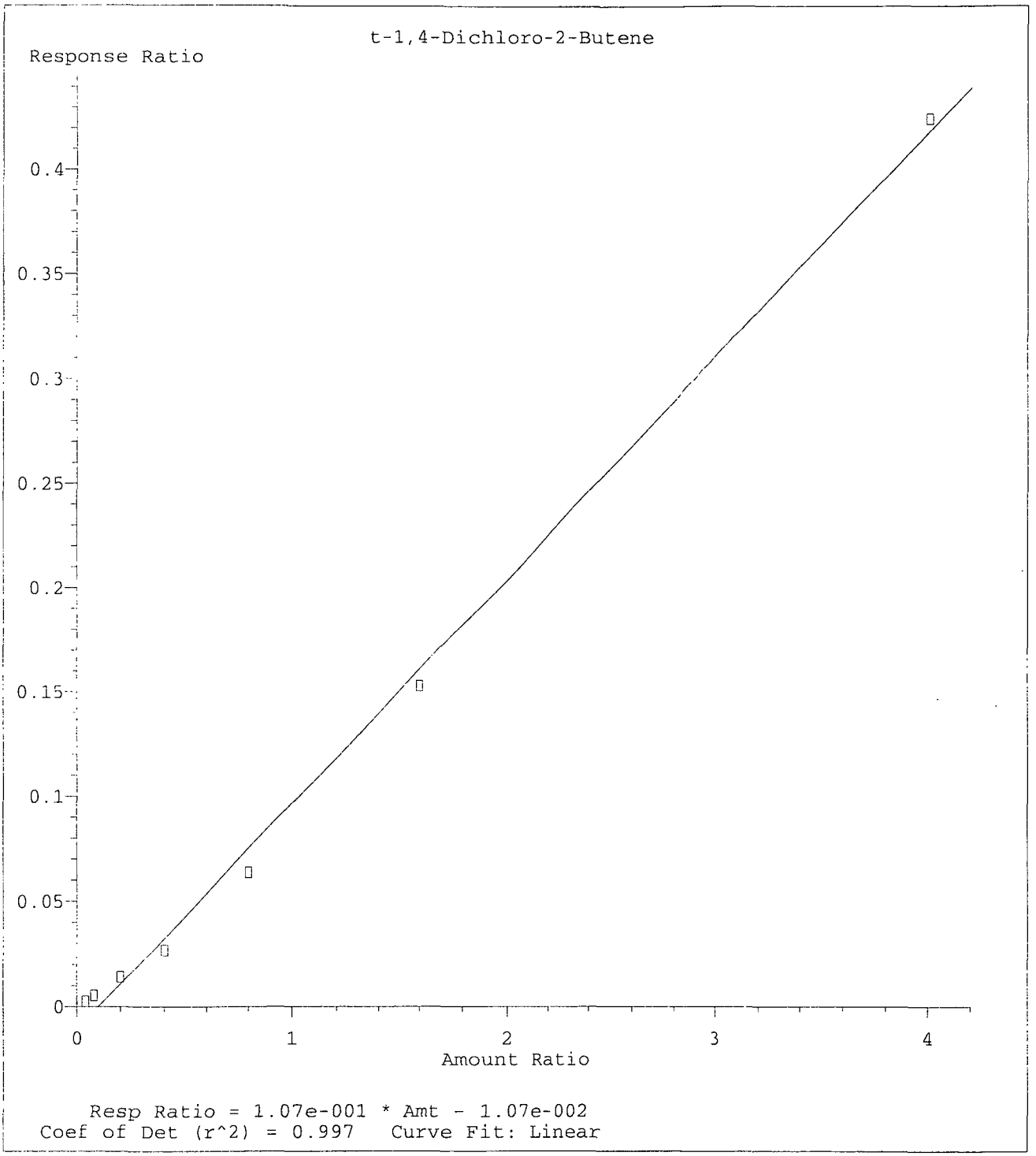
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



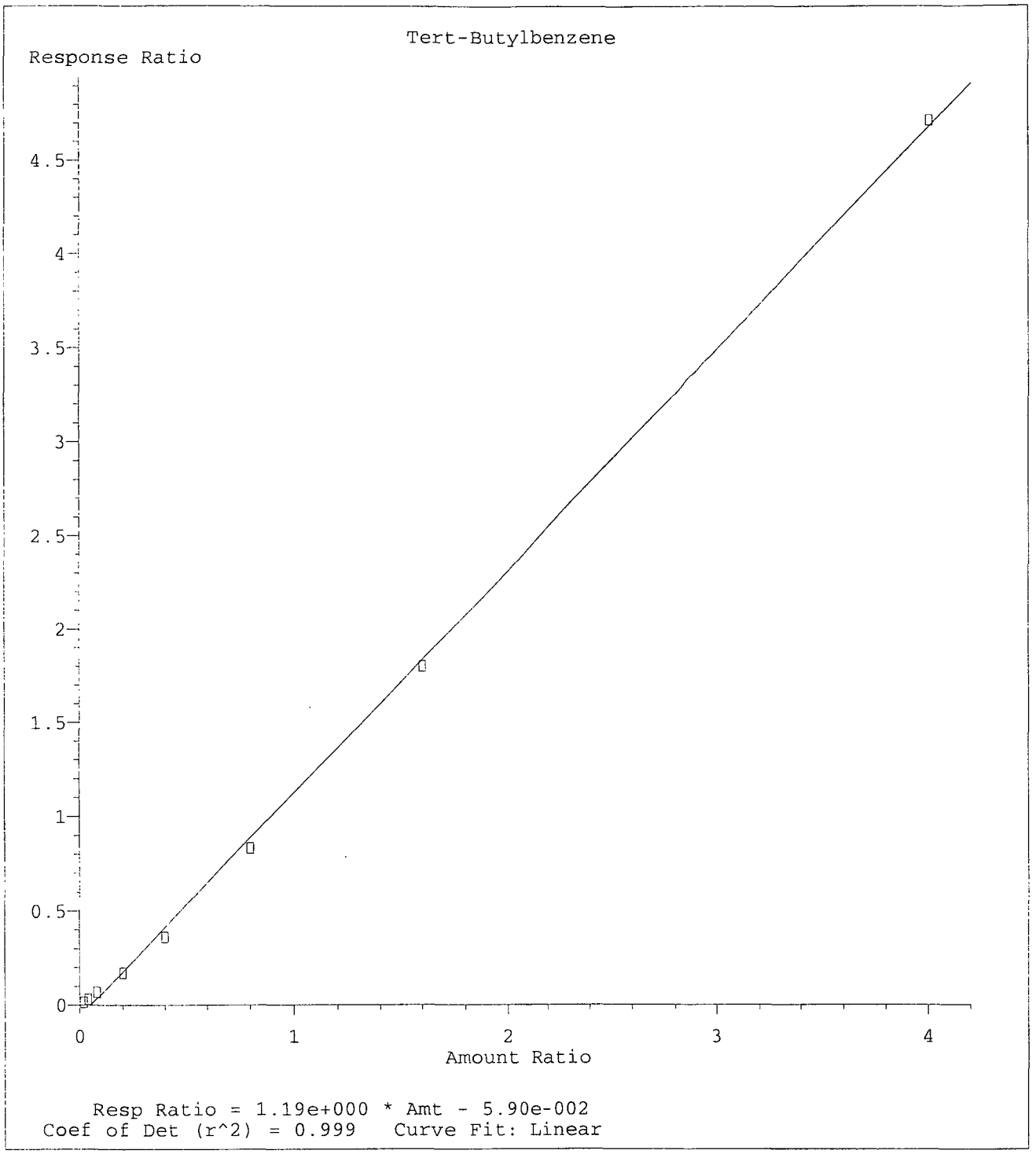
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



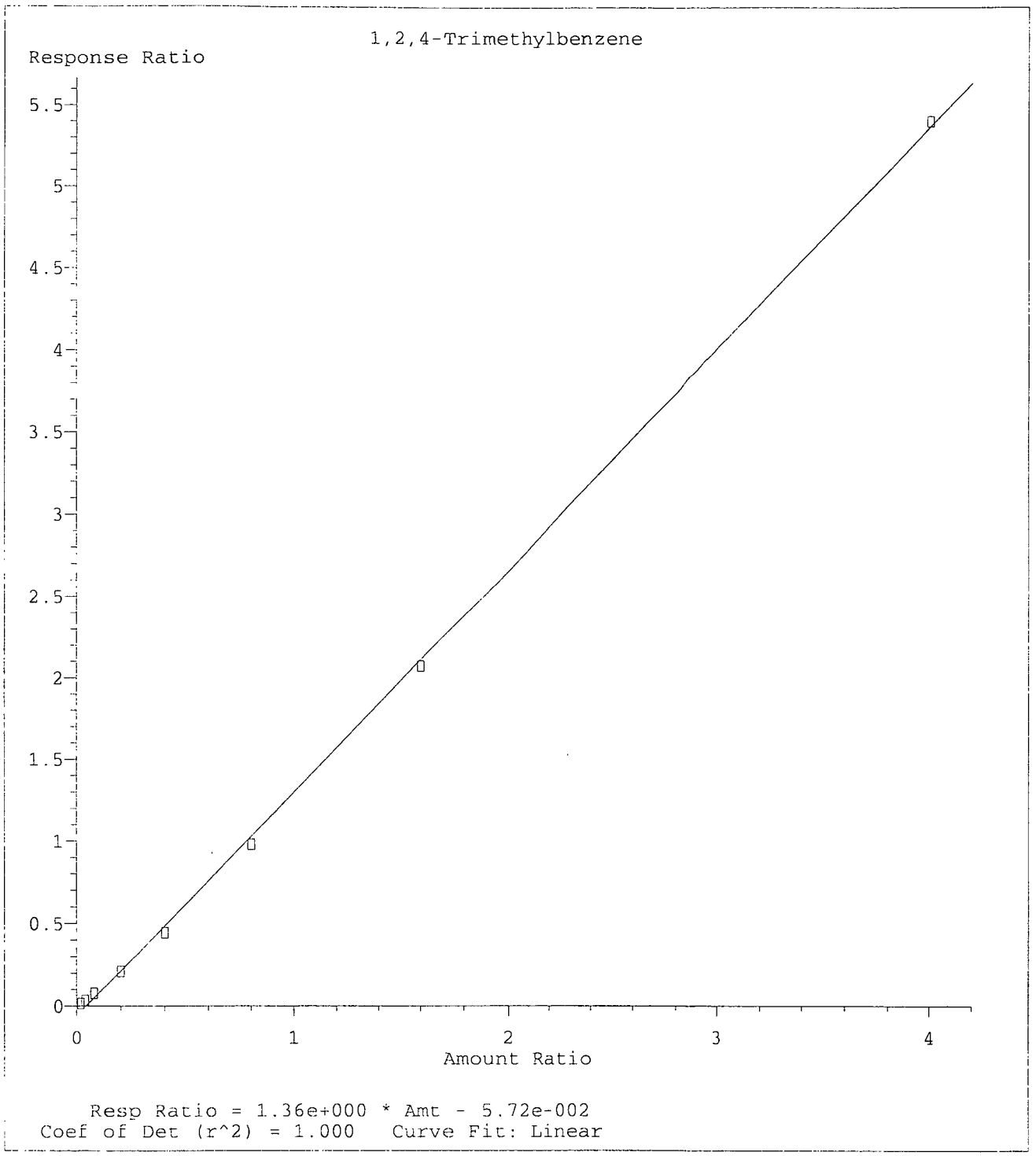
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



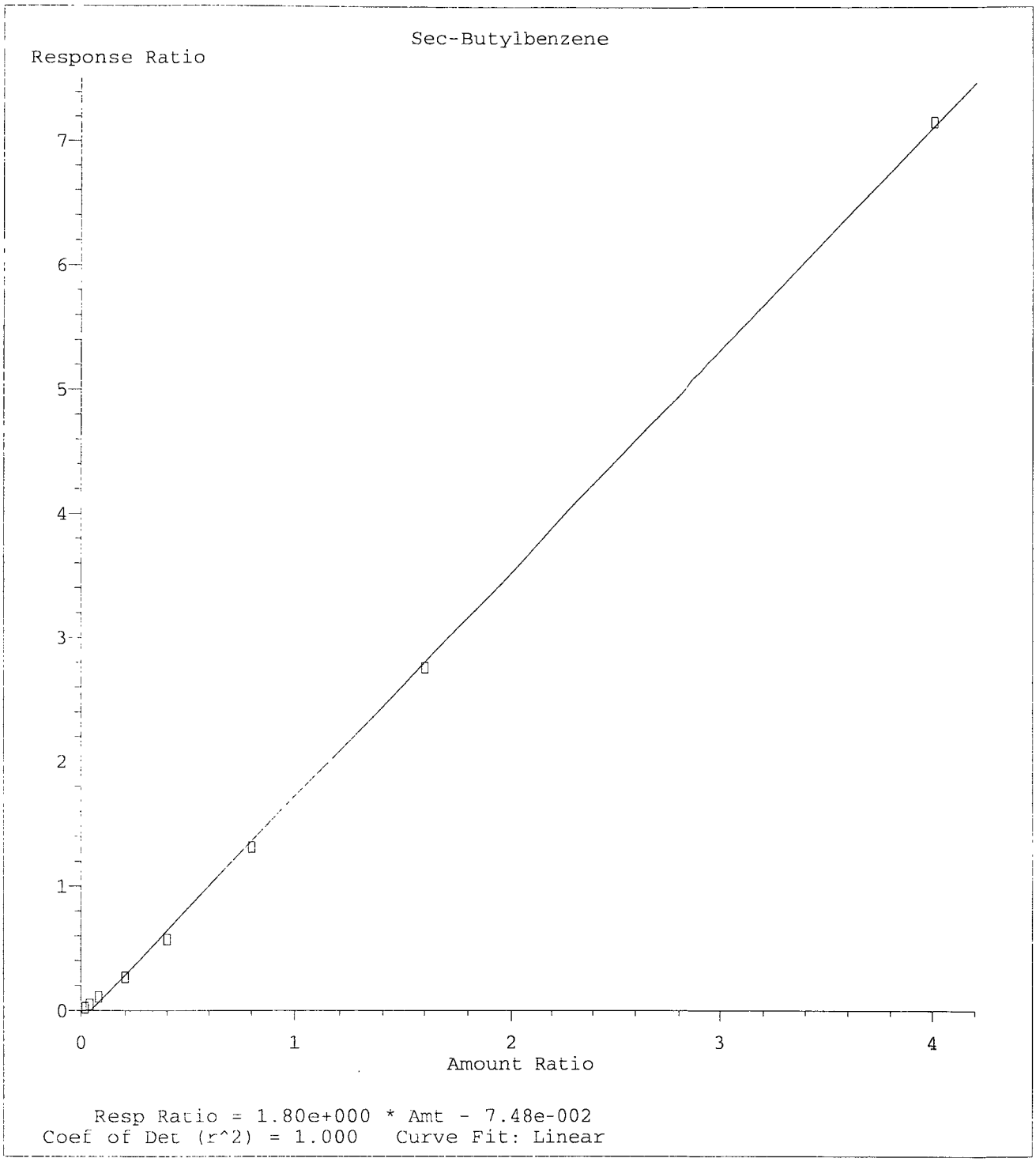
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



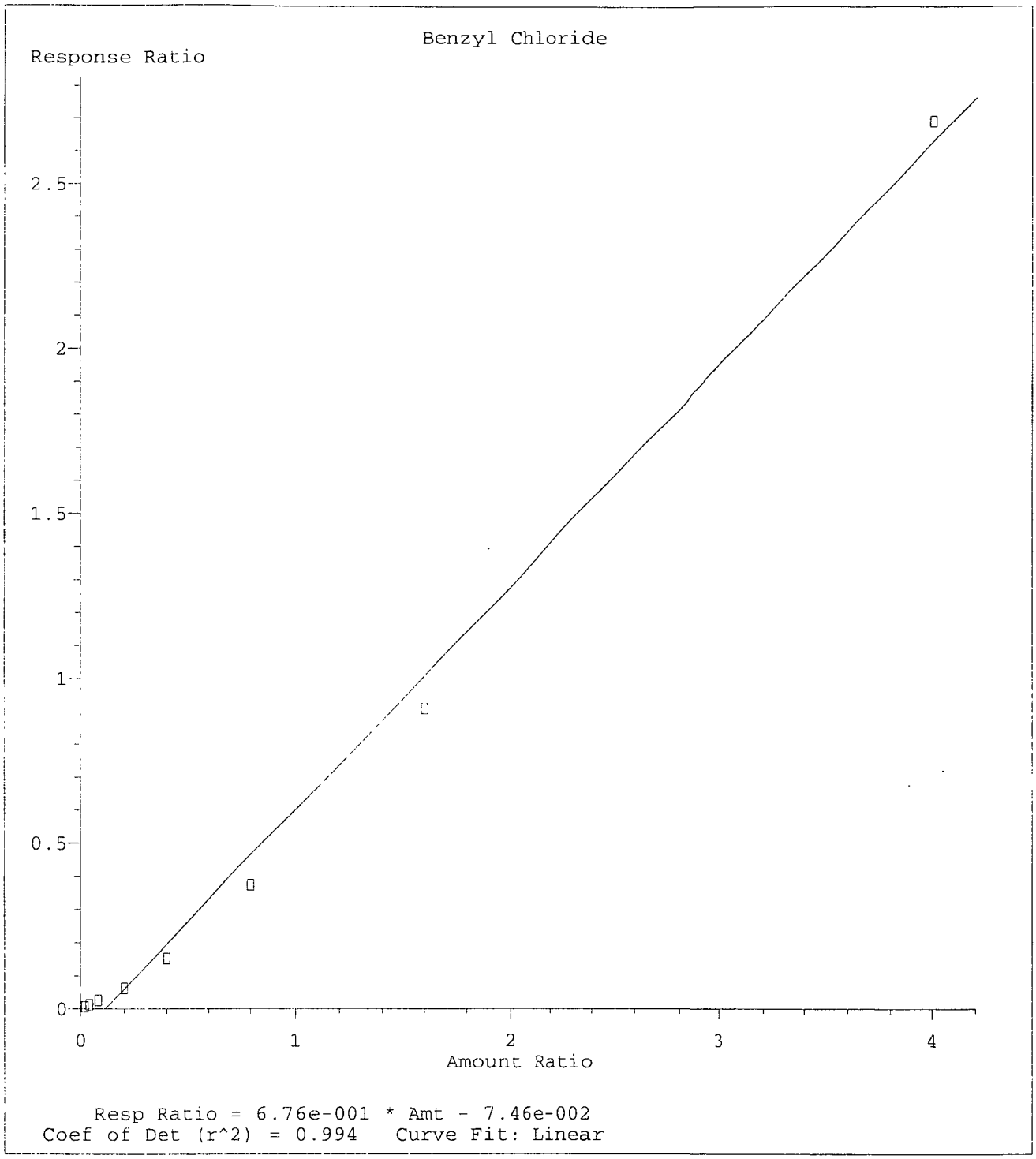
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



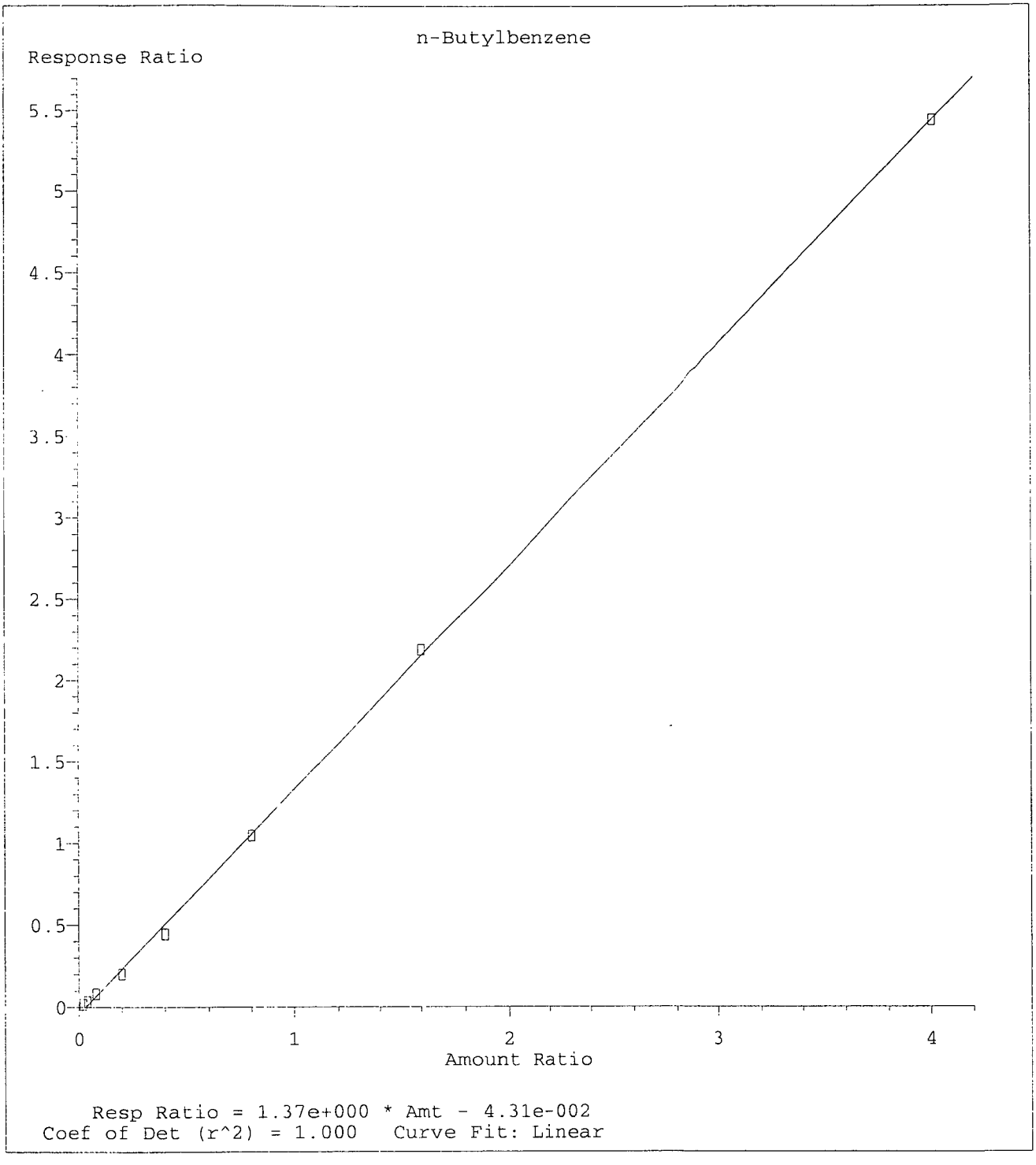
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



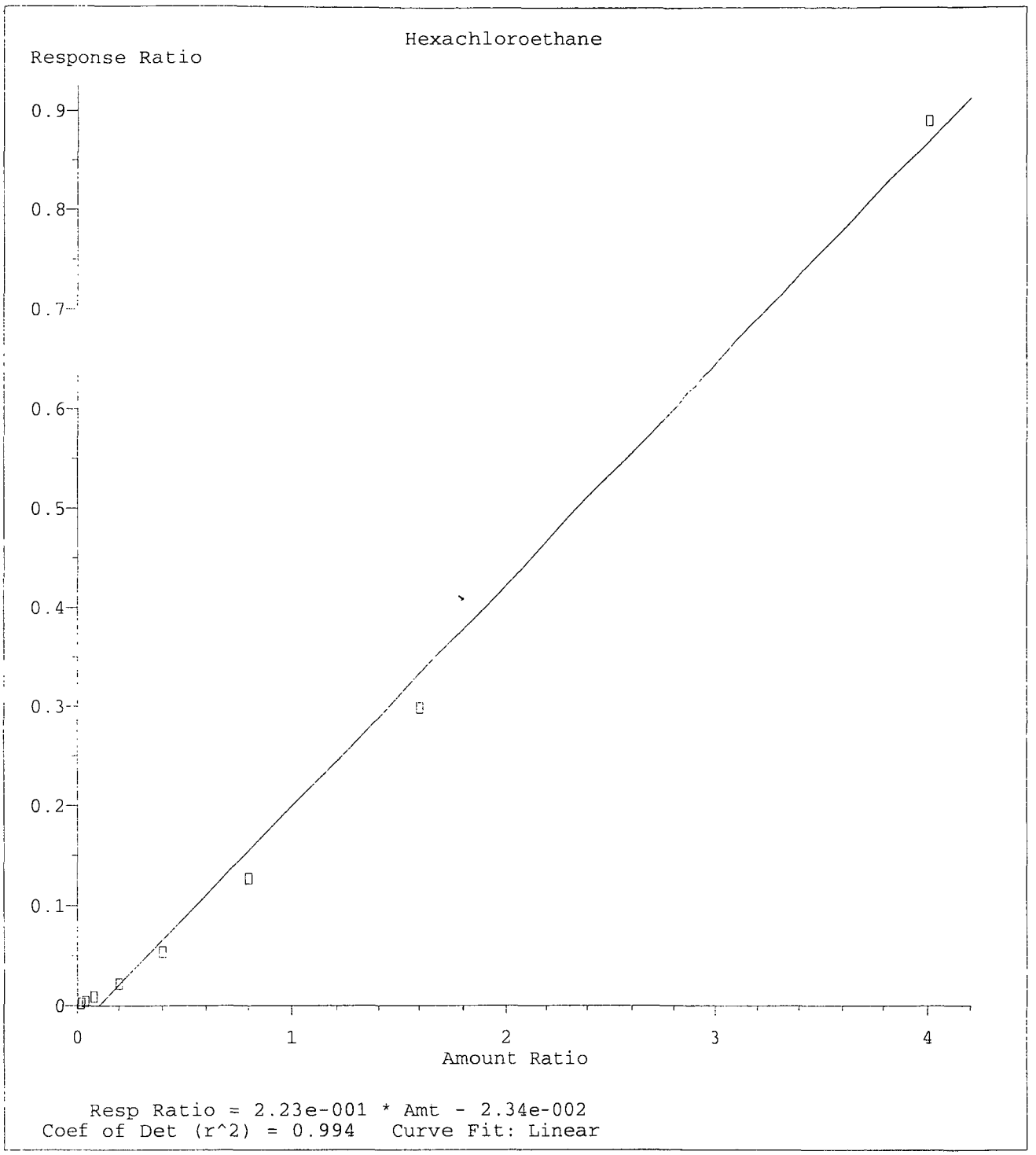
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



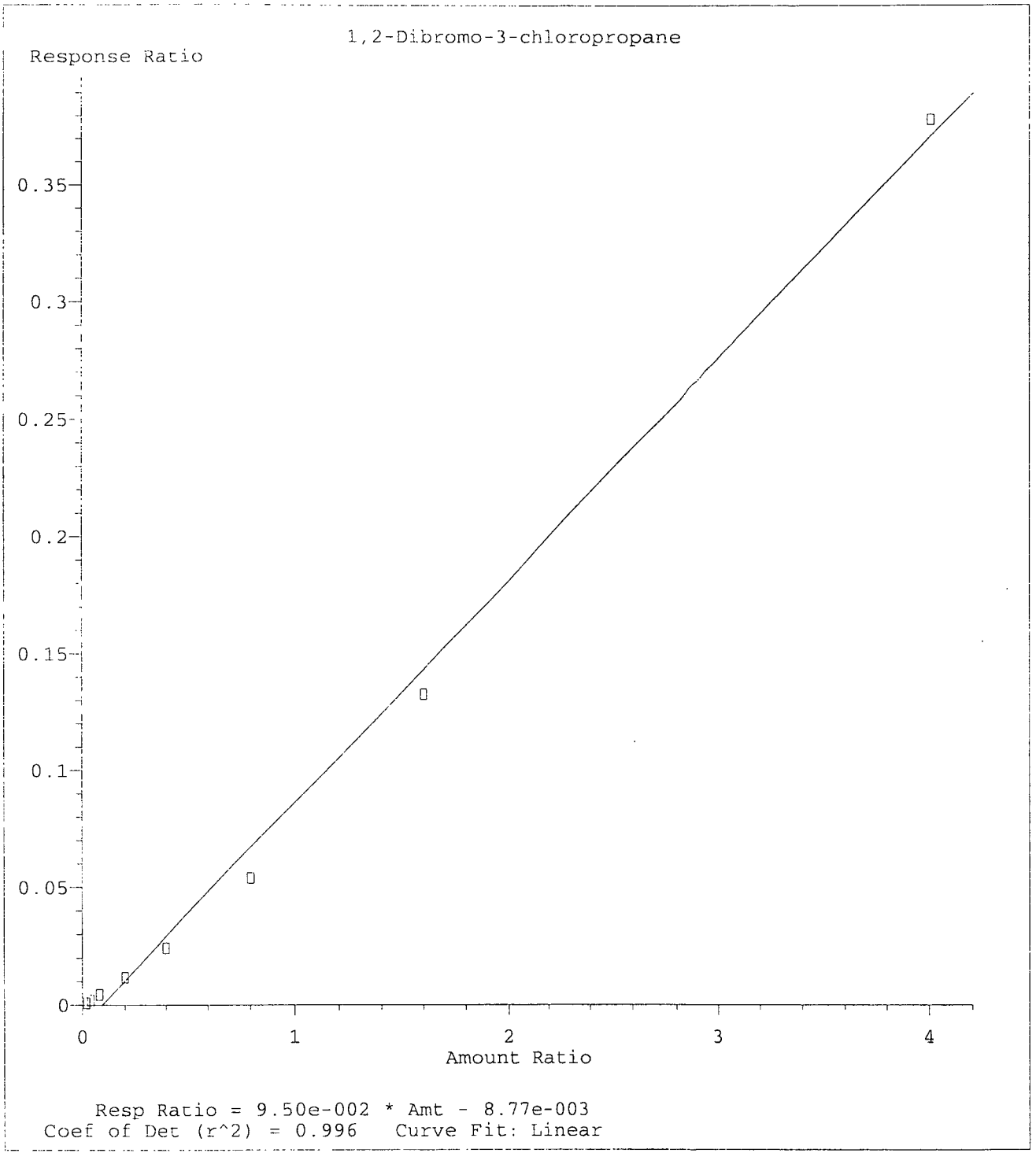
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



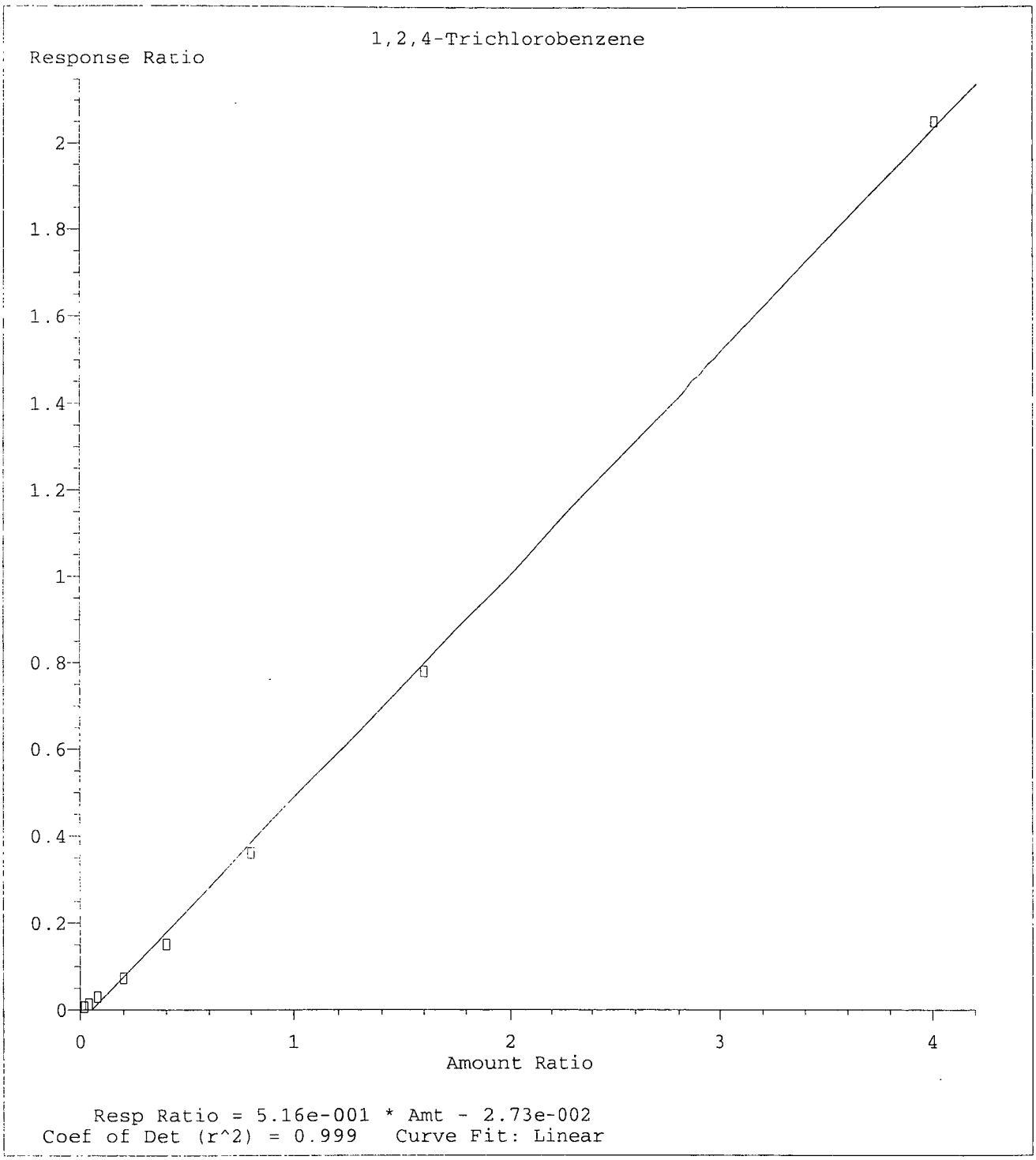
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



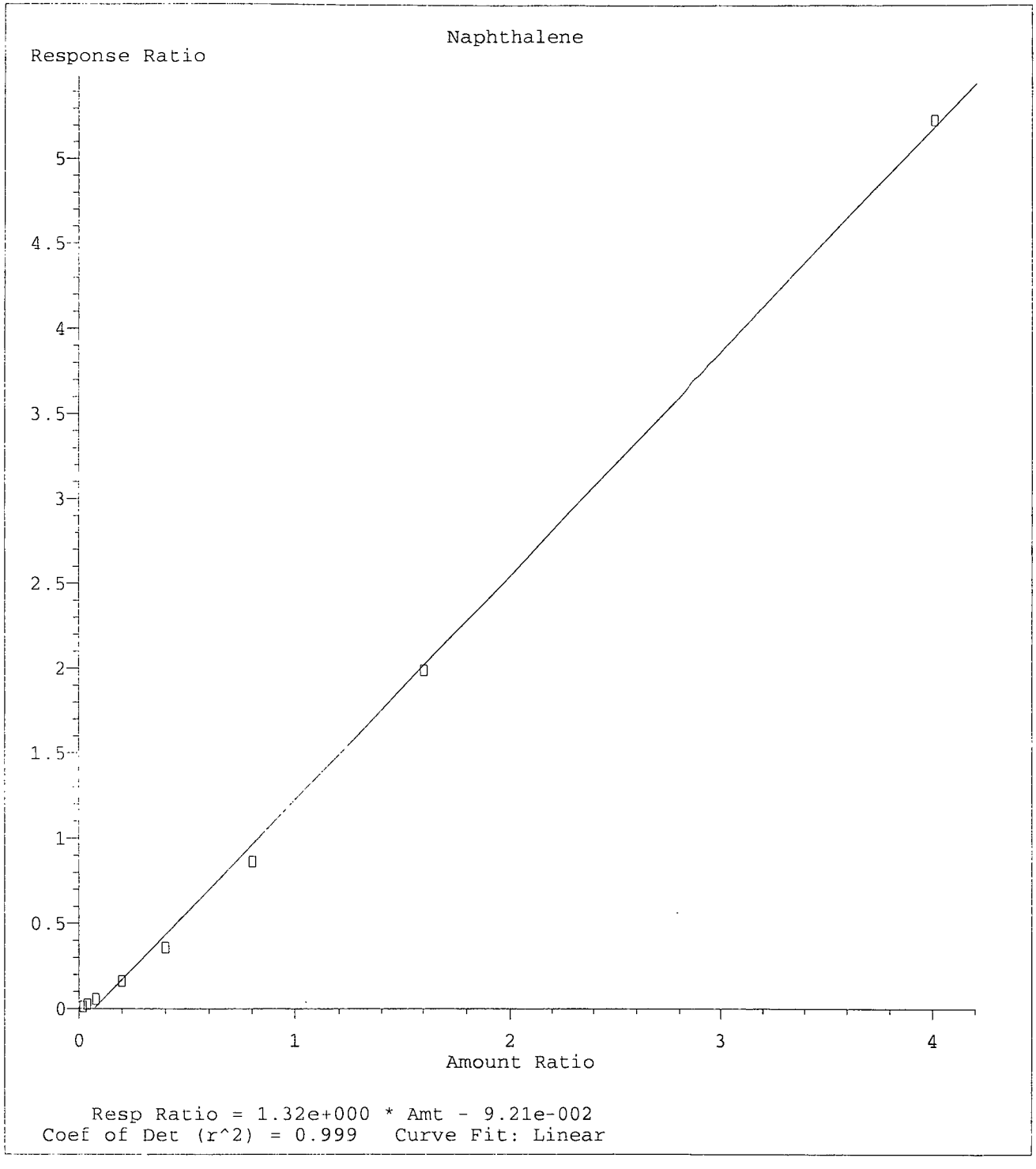
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



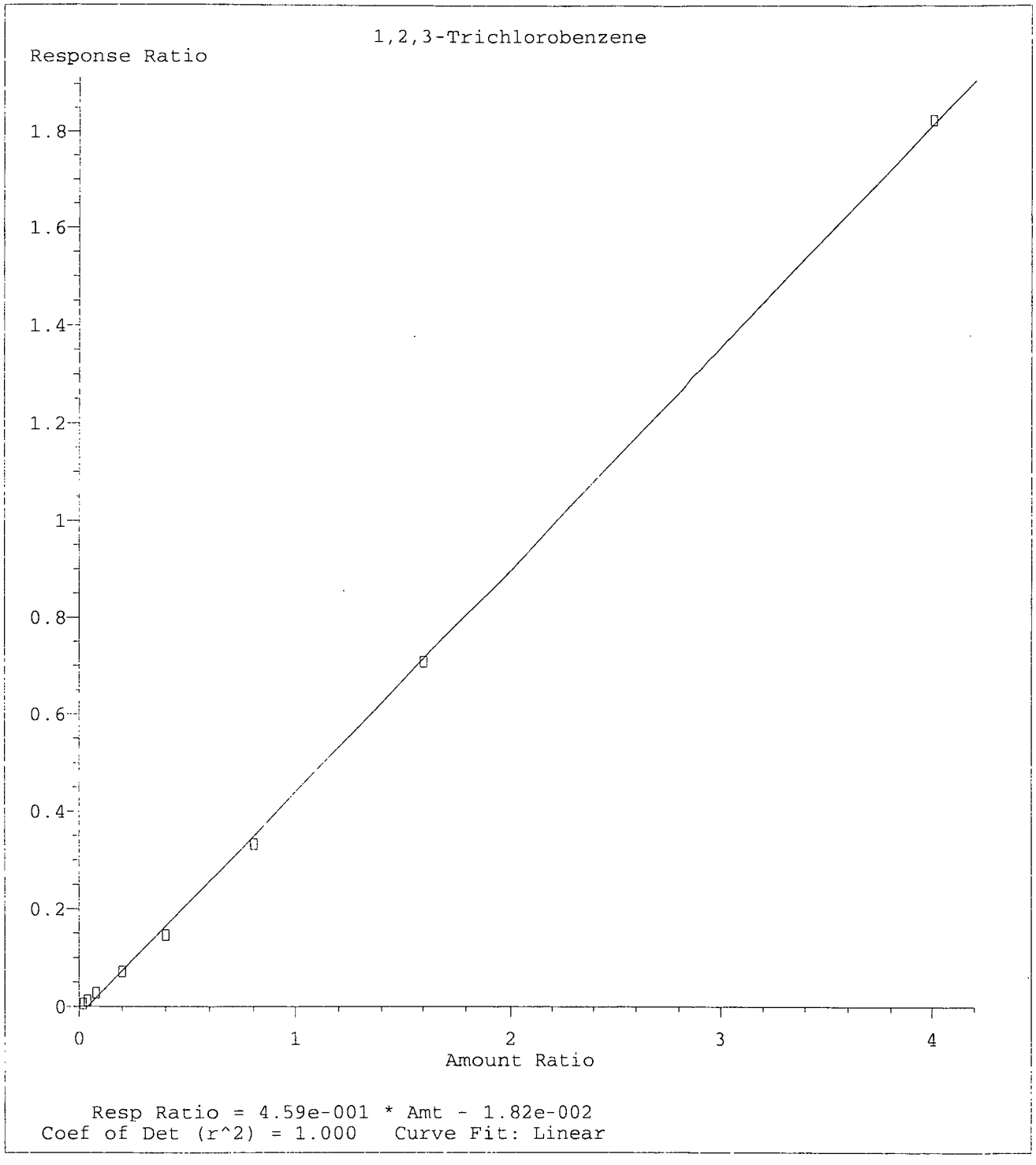
Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020



Method Name: M:\ZEUS\DATA\201016\Z1016W.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/16/20
Matrix: Water Instrument: ZEUS
Initial Cal. Date: 10/16/20
Data File: 1016Z40.D

		Compound	MEAN	CCRF	%D		%Drift	
1	TML	Dichlorodifluoromethane	0.0335	0.0338	0.92	TML	12	
2	TMQ	Freon 114	0.0450	0.0482	7.2	TMQ	51	*NT
3	TM**	Chloromethane	0.1383	0.1259	9.0	TM**		
4	TM*	Vinyl chloride	0.1091	0.1053	3.5	TM*		
5		Butane	0.0000	0.0000	0.00			
6	TM	Bromomethane	0.0376	0.0350	6.9	TM		
7	TML	Chloroethane	0.0554	0.0374	33	TML	4.9	
8	TM	Dichlorofluoromethane	0.2076	0.1755	15	TM		
9	TM	Trichlorofluoromethane	0.1548	0.1466	5.3	TM		
10	TM	Pentane	0.0000	0.0018	0.00	TM		
11	TM	Acrolein	0.0118	0.0130	10	TM		
12	TM	Acetone	0.0431	0.0439	1.8	TM		
13	TML	Freon-113	0.1032	0.0962	6.8	TML	0.97	
14	TM*	1,1-DCE	0.1630	0.1613	1.0	TM*		
15	TM	2-Propanol	0.0000	0.0002	0.00	TM		
16	TM	Acetonitrile	0.0051	0.0051	0.17	TM		
17	TM	t-Butanol	0.0046	0.0056	20	TM		
18	TM	Methyl Acetate	0.1140	0.1050	7.9	TM		
19	TML	Iodomethane	0.0720	0.0672	6.7	TML	25	*NT
20	TM	Acrylonitrile	0.0460	0.0439	4.6	TM		
21	TML	Methylene chloride	0.1913	0.1521	21	TML	7.9	
22	TML	Carbon disulfide	0.1584	0.1498	5.4	TML	0.13	
23	TM	Methyl t-butyl ether (MtBE)	0.2632	0.2579	2.0	TM		
24	TM	Trans-1,2-DCE	0.1606	0.1605	0.08	TM		
25	TM	Hexane	0.0000	0.0003	0.00	TM		
26	TM	Diisopropyl Ether	0.3542	0.3485	1.6	TM		
27	TM**	1,1-DCA	0.2070	0.2101	1.5	TM**		
28	TM	Vinyl Acetate	0.1778	0.1612	9.3	TM		
29	TML	Ethyl tert Butyl Ether	0.2821	0.2856	1.2	TML	7.5	
30	TM	MEK (2-Butanone)	0.0549	0.0637	16	TM		
31	TM	Cis-1,2-DCE	0.1853	0.1828	1.4	TM		
32	TM	2,2-Dichloropropane	0.1362	0.1331	2.3	TM		
33	TM	2-Methylpentane	0.0000	0.0003	0.00	TM		
34	TM	3-Methylpentane	0.0000	0.0644	0.00	TM		
35	TM*	Chloroform	0.2005	0.1967	1.9	TM*		
36	TM	Bromochloromethane	0.1046	0.1029	1.7	TM		
37	TM	1,1,1-TCA	0.1591	0.1560	1.9	TM		
38	TML	Cyclohexane	0.1713	0.1746	1.9	TML	0.01	
39	TM	1,1-Dichloropropene	0.1455	0.1514	4.0	TM		
40	TML	2,2,4-Trimethylpentane	0.3475	0.3397	2.3	TML	5.0	
		Average			5.4			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/16/20
Matrix: Water Instrument: ZEUS
Cal. Date: 10/16/20
Data File: 1016Z40.D

		Compound	MEAN	CCRF	%D		%Drift	
41	TM	Carbon Tetrachloride	0.1298	0.1261	2.8	TM		
42	TML	Tert Amyl Methyl Ether	0.2470	0.2519	2.0	TML	7.0	
43	TM	Methylcyclopentane	0.0199	0.0189	5.1	TM		
44	TM	1,2-DCA	0.1506	0.1429	5.1	TM		
45	TM	Benzene	0.4893	0.4849	0.91	TM		
46	TM	TCE	0.1362	0.1348	1.1	TM		
47	TM	2-Pentanone	0.0774	0.0950	23	TM		*NT
48	TM*	1,2-Dichloropropane	0.1195	0.1202	0.58	TM*		
49	TM	Bromodichloromethane	0.1263	0.1225	3.1	TM		
50	TM	Methyl Cyclohexane	0.1796	0.1766	1.7	TM		
51	TM	Dibromomethane	0.0793	0.0780	1.6	TM		
52	TMQ	MIBK (methyl isobutyl ketone)	0.0918	0.1122	22	TMQ	9.5	
53	TM	1-Bromo-2-chloroethane	0.0186	0.0176	5.7	TM		
54	TM	2-Chloroethyl vinyl ether	0.0000	0.0001	0.00	TM		
55	TML	Cis-1,3-Dichloropropene	0.1536	0.1608	4.7	TML	4.0	
56	TM*	Toluene	0.4961	0.4980	0.38	TM*		
57	TML	Trans-1,3-Dichloropropene	0.1259	0.1311	4.1	TML	5.6	
58	TM	1,1,2-TCA	0.0984	0.0986	0.15	TM		
59	TMQ	2-Hexanone	0.0621	0.0768	24	TMQ	11	
60	TM	1,2-EDB	0.1411	0.1433	1.6	TM		
61	TM	Tetrachloroethene	0.1840	0.1862	1.2	TM		
62	TM	1-Chlorohexane	0.2326	0.2133	8.3	TM		
63	TM	1,1,1,2-Tetrachloroethane	0.1343	0.1446	7.7	TM		
64	TM	m&p-Xylene	0.5469	0.5877	7.5	TM		
65	TM	o-Xylene	0.5432	0.5830	7.3	TM		
66	TML	Styrene	0.4049	0.4535	12	TML	3.9	
67	TM	1,3-Dichloropropane	0.2406	0.2476	2.9	TM		
68	TML	Dibromochloromethane	0.1298	0.1279	1.5	TML	8.9	
69	TM**	Chlorobenzene	0.4773	0.4718	1.1	TM**		
70	TM*	Ethylbenzene	0.7494	0.7640	1.9	TM*		
71	TM**L	Bromoform	0.0758	0.0813	7.3	TM**L	10	
72	TML	Isopropylbenzene	1.259	1.361	8.1	TML	1.7	
73	TM**	1,1,2,2-Tetrachloroethane	0.3279	0.3320	1.2	TM**		
74	TM	1,2,3-Trichloropropane	0.1052	0.1071	1.8	TM		
75	TML	t-1,4-Dichloro-2-Butene	0.0785	0.0738	6.0	TML	6.5	
76	TM	Bromobenzene	0.6202	0.6249	0.77	TM		
77	TM	n-Propylbenzene	1.598	1.695	6.0	TM		
78	TM	4-Ethyltoluene	1.345	1.392	3.5	TM		
79	TM	2-Chlorotoluene	1.094	1.124	2.7	TM		
80	TM	1,3,5-Trimethylbenzene	1.094	1.201	9.8	TM		
		Average			5.2			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/16/20
Matrix: Water Instrument: ZEUS
Cal. Date: 10/16/20
Data File: 1016Z40.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	4-Chlorotoluene	1.097	1.164	6.1	TM	
82	TML	Tert-Butylbenzene	0.9339	1.010	8.1	TML	2.4
83	TML	1,2,4-Trimethylbenzene	1.078	1.182	9.7	TML	2.3
84	TML	Sec-Butylbenzene	1.460	1.567	7.3	TML	2.5
85	TM	p-Isopropyltoluene	1.252	1.326	5.9	TM	
86	TML	Benzyl Chloride	0.4191	0.3890	7.2	TML	15
87	TM	1,3-DCB	0.7101	0.6990	1.6	TM	
88	TM	1,4-DCB	0.7482	0.7334	2.0	TM	
89	TML	n-Butylbenzene	1.113	1.222	9.8	TML	3.0
90	TM	1,2-DCB	0.6531	0.6608	1.2	TM	
91	TML	Hexachloroethane	0.1423	0.1410	0.96	TML	11
92	TML	1,2-Dibromo-3-chloropropane	0.0644	0.0661	2.7	TML	7.3
93	TML	1,2,4-Trichlorobenzene	0.4023	0.4305	7.0	TML	3.3
94	TM	Hexachlorobutadiene	0.1989	0.2059	3.5	TM	
95	TML	Naphthalene	0.9042	1.033	14	TML	4.4
96	TML	1,2,3-Trichlorobenzene	0.3736	0.4013	7.4	TML	2.6
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			5.9		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z40.D Vial: 14
Acq On : 16 Oct 20 20:40 Operator: LP,DG,CH
Sample : (SS) 10ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2298469	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1578382	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	851334	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	577474	26.26	ppb		0.00
Spiked Amount 25.000			Recovery = 105.044%				
48) 1,2-DCA-D4(S)	4.78	65	590500	25.78	ppb		0.00
Spiked Amount 25.000			Recovery = 103.104%				
69) Toluene-D8(S)	6.45	98	2150945	27.48	ppb		0.00
Spiked Amount 25.000			Recovery = 109.920%				
77) 4-Bromofluorobenzene(S)	8.83	95	752566	25.60	ppb		0.00
Spiked Amount 25.000			Recovery = 102.380%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	31079	11.19	ppb		98
4) Freon 114	1.29	85	44325	15.12	ppb		98
5) Chloromethane	1.37	50	115762	9.10	ppb		98
6) Vinyl chloride	1.43	62	96839	9.65	ppb		97
9) Bromomethane	1.70	94	32146	9.31	ppb		98
10) Chloroethane	1.78	64	34342	9.51	ppb		100
11) Dichlorofluoromethane	1.99	67	161385	8.45	ppb		98
12) Trichlorofluoromethane	2.03	101	134772	9.47	ppb		97
16) Acrolein	2.44	55	149319	137.88	ppb		99
17) Acetone	2.59	43	201775	50.90	ppb		97
18) Freon-113	2.54	101	88467	9.90	ppb		97
19) 1,1-DCE	2.52	61	148300	9.90	ppb		99
21) Acetonitrile	2.83	40	58458	124.78	ppb		97
22) t-Butanol	3.13	59	63856	150.60	ppb		96
23) Methyl Acetate	2.90	43	96499	9.21	ppb		97
24) Iodomethane	2.65	142	61739	7.51	ppb		95
25) Acrylonitrile	3.19	52	40363	9.54	ppb		95
26) Methylene chloride	2.97	84	139813	10.79	ppb		98
27) Carbon disulfide	2.70	76	137728	9.99	ppb		100
28) Methyl t-butyl ether (MtBE	3.25	73	237143	9.80	ppb		100
29) Trans-1,2-DCE	3.22	61	147526	9.99	ppb		94
31) Diisopropyl Ether	3.69	45	320450	9.84	ppb		98
33) 1,1-DCA	3.59	63	193195	10.15	ppb		97
34) Vinyl Acetate	3.65	43	148220	9.07	ppb		98
35) Ethyl tert Butyl Ether	4.01	59	262544	9.25	ppb		98
36) MEK (2-Butanone)	4.12	43	293010	58.10	ppb		99
37) Cis-1,2-DCE	4.09	61	168067	9.86	ppb		98
38) 2,2-Dichloropropane	4.09	77	122381	9.77	ppb		97
41) Chloroform	4.37	83	180803	9.81	ppb		98
42) Bromochloromethane	4.29	49	94567	9.83	ppb		97
44) 1,1,1-TCA	4.52	97	143455	9.81	ppb		96
45) Cyclohexane	4.58	56	160545	10.00	ppb		97
46) 1,1-Dichloropropene	4.67	75	139167	10.40	ppb		98
47) 2,2,4-Trimethylpentane	4.93	57	312325	9.50	ppb		99
49) Carbon Tetrachloride	4.67	117	115977	9.72	ppb		99
50) Tert Amyl Methyl Ether	4.97	73	231631	9.30	ppb		98
51) Methylcyclopentane	4.01	56	17366	9.49	ppb	#	96
52) 1,2-DCA	4.85	62	131423	9.49	ppb		100
53) Benzene	4.84	78	445810	9.91	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z40.D
Acq On : 16 Oct 20 20:40
Sample : (SS) 10ug/L VOC STD 10/16/20
Misc :

Vial: 14
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	123912	9.89	ppb		97
55)	2-Pentanone	5.55	43	1092339	153.52	ppb		100
56)	1,2-Dichloropropane	5.58	63	110519	10.06	ppb		99
57)	Bromodichloromethane	5.81	83	112589	9.69	ppb		99
58)	Methyl Cyclohexane	5.57	83	162344	9.83	ppb		99
59)	Dibromomethane	5.67	174	71755	9.84	ppb		98
60)	MIBK (methyl isobutyl ket	6.35	43	515777	54.77	ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	16151	9.43	ppb		93
63)	Cis-1,3-Dichloropropene	6.21	75	147874	9.60	ppb		97
64)	Toluene	6.51	91	457835	10.04	ppb		97
65)	Trans-1,3-Dichloropropene	6.69	75	120517	9.44	ppb		97
66)	1,1,2-TCA	6.85	97	90641	10.02	ppb		99
67)	2-Hexanone	7.09	43	353101	55.27	ppb		98
70)	1,2-EDB	7.30	107	90495	10.16	ppb	#	94
71)	Tetrachloroethene	6.99	166	117558	10.12	ppb		97
72)	1-Chlorohexane	7.75	91	134638	9.17	ppb		96
73)	1,1,1,2-Tetrachloroethane	7.84	131	91319	10.77	ppb		95
74)	m&p-Xylene	7.98	91	742106	21.49	ppb		98
75)	o-Xylene	8.35	91	368064	10.73	ppb		99
76)	Styrene	8.36	104	286311	9.61	ppb		98
78)	1,3-Dichloropropane	7.00	76	156325	10.29	ppb		98
79)	Dibromochloromethane	7.20	129	80720	9.11	ppb		97
80)	Chlorobenzene	7.76	112	297887	9.89	ppb		98
81)	Ethylbenzene	7.87	91	482325	10.19	ppb		100
82)	Bromoform	8.51	173	51311	8.98	ppb		91
84)	Isopropylbenzene	8.70	105	463635	9.83	ppb		98
85)	1,1,2,2-Tetrachloroethane	8.97	83	113063	10.12	ppb		97
86)	1,2,3-Trichloropropane	9.01	110	36471	10.18	ppb		97
87)	t-1,4-Dichloro-2-Butene	9.03	53	25116	9.35	ppb		93
88)	Bromobenzene	8.98	77	212806	10.08	ppb		94
89)	n-Propylbenzene	9.10	91	577092	10.60	ppb		97
90)	4-Ethyltoluene	9.21	105	473964	10.35	ppb		99
91)	2-Chlorotoluene	9.16	91	382679	10.27	ppb		99
92)	1,3,5-Trimethylbenzene	9.26	105	409138	10.98	ppb		99
93)	4-Chlorotoluene	9.27	91	396353	10.61	ppb		100
94)	Tert-Butylbenzene	9.58	119	343886	9.76	ppb		99
95)	1,2,4-Trimethylbenzene	9.63	105	402545	9.77	ppb		98
96)	Sec-Butylbenzene	9.79	105	533622	9.75	ppb		100
97)	p-Isopropyltoluene	9.94	119	451401	10.59	ppb		100
98)	Benzyl Chloride	10.10	91	132482	8.51	ppb		98
99)	1,3-DCB	9.88	146	238020	9.84	ppb		95
100)	1,4-DCB	9.97	146	249753	9.80	ppb		96
101)	n-Butylbenzene	10.33	91	416164	9.70	ppb		98
102)	1,2-DCB	10.33	146	225020	10.12	ppb		98
103)	Hexachloroethane	10.59	201	48009	8.94	ppb		95
104)	1,2-Dibromo-3-chloropropan	11.09	157	22519	9.27	ppb		95
105)	1,2,4-Trichlorobenzene	11.92	180	146606	9.67	ppb		100
106)	Hexachlorobutadiene	12.11	225	70126	10.35	ppb		97
107)	Naphthalene	12.15	128	351830	9.56	ppb		100
108)	1,2,3-Trichlorobenzene	12.39	180	136663	9.74	ppb		99

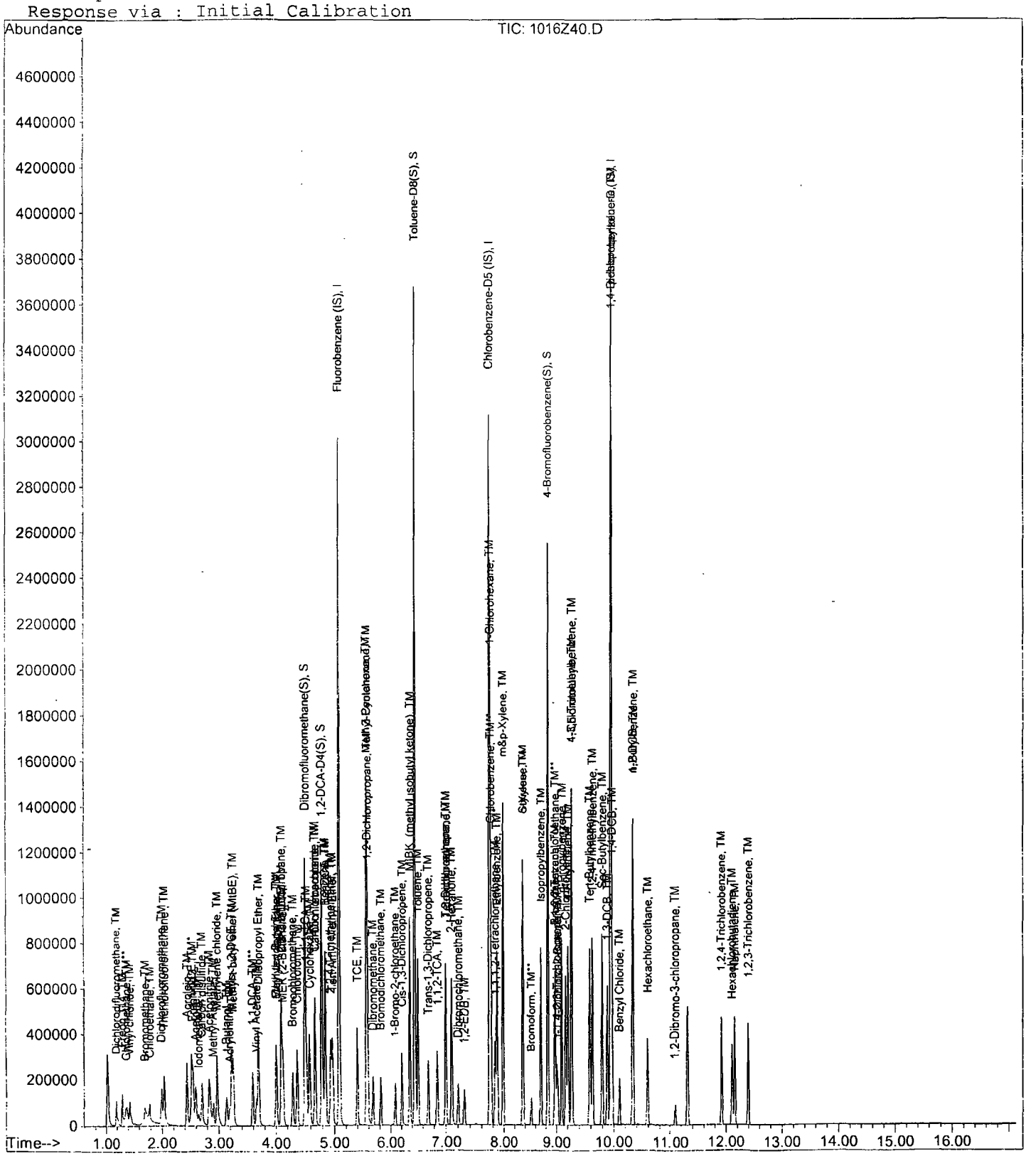
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z40.D Vial: 14
Acq On : 16 Oct 20 20:40 Operator: LP,DG,CH
Sample : (SS) 10ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 17 8:50 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/17/20
Instrument: ZEUS
Initial Cal. Date: 10/16/20
Data File: 1017Z13.D

		Compound	MEAN	CCRF	%D	%Drift		
1	I	Fluorobenzene (IS)	ISTD			I		
2	TML	Dichlorodifluoromethane	0.0335	0.0220	34	TML	27	*
3	TMQ	Freon 114	0.0450	0.0327	27	TMQ	11	
4	TM**	Chloromethane	0.1383	0.1148	17	TM**		
5	TM*	Vinyl chloride	0.1091	0.0894	18	TM*		
6		Butane	0.0000	0.0005	0.00			
7	TM	Bromomethane	0.0376	0.0328	13	TM		
8	TML	Chloroethane	0.0554	0.0363	35	TML	7.8	
9	TM	Dichlorofluoromethane	0.2076	0.1912	7.9	TM		
10	TM	Trichlorofluoromethane	0.1548	0.1337	14	TM		
11	TM	Pentane	0.0000	0.0011	0.00	TM		
12	TM	Acrolein	0.0118	0.0123	4.8	TM		
13	TM	Acetone	0.0431	0.0435	0.86	TM		
14	TML	Freon-113	0.1032	0.0987	4.4	TML	1.3	
15	TM*	1,1-DCE	0.1630	0.1572	3.6	TM*		
16	TM	2-Propanol	0.0000	0.0000	0.00	TM		
17	TM	Acetonitrile	0.0051	0.0049	3.8	TM		
18	TM	t-Butanol	0.0046	0.0051	10	TM		
19	TM	Methyl Acetate	0.1140	0.1070	6.2	TM		
20	TML	Iodomethane	0.0720	0.0640	11	TML	28	*NT
21	TM	Acrylonitrile	0.0460	0.0468	1.7	TM		
22	TML	Methylene chloride	0.1913	0.1387	27	TML	2.7	
23	TML	Carbon disulfide	0.1584	0.1359	14	TML	8.9	
24	TM	Methyl t-butyl ether (MtBE)	0.2632	0.2900	10	TM		
25	TM	Trans-1,2-DCE	0.1606	0.1532	4.6	TM		
26	TM	Hexane	0.0000	0.0003	0.00	TM		
27	TM	Diisopropyl Ether	0.3542	0.3796	7.2	TM		
28	TM**	1,1-DCA	0.2070	0.2021	2.4	TM**		
29	TM	Vinyl Acetate	0.1778	0.1873	5.3	TM		
30	TML	Ethyl tert Butyl Ether	0.2821	0.3068	8.7	TML	1.5	
31	TM	MEK (2-Butanone)	0.0549	0.0625	14	TM		
32	TM	Cis-1,2-DCE	0.1853	0.1881	1.5	TM		
33	TM	2,2-Dichloropropane	0.1362	0.1354	0.61	TM		
34	TM	2-Methylpentane	0.0000	0.0002	0.00	TM		
35	TM	3-Methylpentane	0.0000	0.0707	0.00	TM		
36	TM*	Chloroform	0.2005	0.2070	3.3	TM*		
37	TM	Bromochloromethane	0.1046	0.1065	1.8	TM		
38	S	Dibromofluoromethane(S)	0.2392	0.2633	10	S		
39	TM	1,1,1-TCA	0.1591	0.1573	1.1	TM		
40	TML	Cyclohexane	0.1713	0.1640	4.3	TML	5.3	
		Average			8.4			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/17/20
Instrument: ZEUS
Cal. Date: 10/16/20
Data File: 1017Z13.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	1,1-Dichloropropene	0.1455	0.1439	1.1	TM	
42	TML	2,2,4-Trimethylpentane	0.3475	0.3377	2.8	TML	5.5
43	S	1,2-DCA-D4(S)	0.2492	0.2750	10	S	
44	TM	Carbon Tetrachloride	0.1298	0.1267	2.4	TM	
45	TML	Tert Amyl Methyl Ether	0.2470	0.2722	10	TML	0.56
46	TM	Methylcyclopentane	0.0199	0.0221	11	TM	
47	TM	1,2-DCA	0.1506	0.1496	0.61	TM	
48	TM	Benzene	0.4893	0.4853	0.82	TM	
49	TM	TCE	0.1362	0.1347	1.1	TM	
50	TM	2-Pentanone	0.0774	0.0928	20	TM	
51	TM*	1,2-Dichloropropane	0.1195	0.1210	1.2	TM*	
52	TM	Bromodichloromethane	0.1263	0.1307	3.4	TM	
53	TM	Methyl Cyclohexane	0.1796	0.1757	2.2	TM	
54	TM	Dibromomethane	0.0793	0.0808	1.8	TM	
55	TMQ	MIBK (methyl isobutyl ketone)	0.0918	0.1102	20	TMQ	8.1
56	TM	1-Bromo-2-chloroethane	0.0186	0.0201	8.0	TM	
57	TM	2-Chloroethyl vinyl ether	0.0000	0.0001	0.00	TM	
58	TML	Cis-1,3-Dichloropropene	0.1536	0.1596	3.9	TML	4.6
59	TM*	Toluene	0.4961	0.5014	1.1	TM*	
60	TML	Trans-1,3-Dichloropropene	0.1259	0.1355	7.6	TML	2.9
61	TM	1,1,2-TCA	0.0984	0.1061	7.8	TM	
62	TMQ	2-Hexanone	0.0621	0.0755	22	TMQ	9.1
63	I	Chlorobenzene-D5 (IS)	ISTD			I	
64	S	Toluene-D8(S)	1.240	1.355	9.3	S	
65	TM	1,2-EDB	0.1411	0.1514	7.3	TM	
66	TM	Tetrachloroethene	0.1840	0.1799	2.2	TM	
67	TM	1-Chlorohexane	0.2326	0.2131	8.4	TM	
68	TM	1,1,1,2-Tetrachloroethane	0.1343	0.1517	13	TM	
69	TM	m&p-Xylene	0.5469	0.5790	5.9	TM	
70	TM	o-Xylene	0.5432	0.5833	7.4	TM	
71	TML	Styrene	0.4049	0.4666	15	TML	1.3
72	SL	4-Bromofluorobenzene(S)	0.4272	0.4826	13	SL	3.6
73	TM	1,3-Dichloropropane	0.2406	0.2536	5.4	TM	
74	TML	Dibromochloromethane	0.1298	0.1382	6.4	TML	2.8
75	TM**	Chlorobenzene	0.4773	0.4814	0.87	TM**	
76	TM*	Ethylbenzene	0.7494	0.7594	1.3	TM*	
77	TM**L	Bromoform	0.0758	0.0842	11	TM**L	7.4
78	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
79	TML	Isopropylbenzene	1.259	1.329	5.5	TML	3.7
80	TM**	1,1,2,2-Tetrachloroethane	0.3279	0.3460	5.5	TM**	
		Average			6.7		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/17/20
Instrument: ZEUS
Cal. Date: 10/16/20
Data File: 1017Z13.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,2,3-Trichloropropane	0.1052	0.1145	8.9	TM	
82	TML	t-1,4-Dichloro-2-Butene	0.0785	0.0769	2.0	TML	3.6
83	TM	Bromobenzene	0.6202	0.6257	0.90	TM	
84	TM	n-Propylbenzene	1.598	1.657	3.7	TM	
85	TM	4-Ethyltoluene	1.345	1.437	6.9	TM	
86	TM	2-Chlorotoluene	1.094	1.124	2.8	TM	
87	TM	1,3,5-Trimethylbenzene	1.094	1.178	7.6	TM	
88	TM	4-Chlorotoluene	1.097	1.162	5.8	TM	
89	TML	Tert-Butylbenzene	0.9339	0.9854	5.5	TML	4.4
90	TML	1,2,4-Trimethylbenzene	1.078	1.183	9.8	TML	2.3
91	TML	Sec-Butylbenzene	1.460	1.543	5.7	TML	3.9
92	TM	p-Isopropyltoluene	1.252	1.304	4.1	TM	
93	TML	Benzyl Chloride	0.4191	0.4170	0.49	TML	11
94	TM	1,3-DCB	0.7101	0.7180	1.1	TM	
95	TM	1,4-DCB	0.7482	0.7521	0.53	TM	
96	TML	n-Butylbenzene	1.113	1.203	8.1	TML	4.4
97	TM	1,2-DCB	0.6531	0.6869	5.2	TM	
98	TML	Hexachloroethane	0.1423	0.1340	5.9	TML	14
99	TML	1,2-Dibromo-3-chloropropane	0.0644	0.0649	0.68	TML	8.6
100	TML	1,2,4-Trichlorobenzene	0.4023	0.4189	4.1	TML	5.6
101	TM	Hexachlorobutadiene	0.1989	0.2001	0.60	TM	
102	TML	Naphthalene	0.9042	1.011	12	TML	6.1
103	TML	1,2,3-Trichlorobenzene	0.3736	0.4057	8.6	TML	1.6
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			4.8		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z13.D Vial: 12
Acq On : 17 Oct 20 14:44 Operator: LP,DG,CH
Sample : 201017A CCV 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:51 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1959977	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1373200	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	757524	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	515995	27.52	ppb		0.00
Spiked Amount 25.000			Recovery = 110.072%				
48) 1,2-DCA-D4(S)	4.78	65	538988	27.59	ppb		0.00
Spiked Amount 25.000			Recovery = 110.360%				
69) Toluene-D8(S)	6.45	98	1860552	27.32	ppb		0.00
Spiked Amount 25.000			Recovery = 109.284%				
77) 4-Bromofluorobenzene(S)	8.83	95	662698	25.89	ppb		0.00
Spiked Amount 25.000			Recovery = 103.560%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	17271	7.26	ppb		98
4) Freon 114	1.29	85	25640	11.06	ppb		98
5) Chloromethane	1.37	50	90014	8.30	ppb		98
6) Vinyl chloride	1.43	62	70127	8.20	ppb		99
9) Bromomethane	1.70	94	25704	8.73	ppb		98
10) Chloroethane	1.78	64	28439	9.22	ppb		100
11) Dichlorofluoromethane	1.99	67	149928	9.21	ppb		95
12) Trichlorofluoromethane	2.03	101	104838	8.64	ppb		99
16) Acrolein	2.44	55	120967	130.99	ppb		98
17) Acetone	2.59	43	170458	50.43	ppb		96
18) Freon-113	2.54	101	77375	10.13	ppb		96
19) 1,1-DCE	2.52	61	123214	9.64	ppb		98
21) Acetonitrile	2.83	40	48034	120.24	ppb		98
22) t-Butanol	3.13	59	49856	137.89	ppb		90
23) Methyl Acetate	2.90	43	83854	9.38	ppb		98
24) Iodomethane	2.65	142	50184	7.23	ppb		94
25) Acrylonitrile	3.19	52	36675	10.17	ppb		95
26) Methylene chloride	2.97	84	108749	9.73	ppb		94
27) Carbon disulfide	2.71	76	106512	9.11	ppb		98
28) Methyl t-butyl ether (MtBE	3.25	73	227391	11.02	ppb		99
29) Trans-1,2-DCE	3.22	61	120087	9.54	ppb		95
31) Diisopropyl Ether	3.69	45	297571	10.72	ppb		99
33) 1,1-DCA	3.59	63	158440	9.76	ppb		98
34) Vinyl Acetate	3.65	43	146829	10.53	ppb		96
35) Ethyl tert Butyl Ether	4.01	59	240551	9.85	ppb		100
36) MEK (2-Butanone)	4.12	43	244969	56.96	ppb		100
37) Cis-1,2-DCE	4.09	61	147488	10.15	ppb		98
38) 2,2-Dichloropropane	4.09	77	106128	9.94	ppb		100
41) Chloroform	4.37	83	162286	10.33	ppb		99
42) Bromochloromethane	4.29	49	83465	10.18	ppb		92
44) 1,1,1-TCA	4.53	97	123289	9.89	ppb		94
45) Cyclohexane	4.58	56	128579	9.47	ppb		99
46) 1,1-Dichloropropene	4.67	75	112837	9.89	ppb		97
47) 2,2,4-Trimethylpentane	4.93	57	264754	9.45	ppb		100
49) Carbon Tetrachloride	4.67	117	99301	9.76	ppb		99
50) Tert Amyl Methyl Ether	4.97	73	213366	9.94	ppb		97
51) Methylcyclopentane	4.00	56	17361	11.12	ppb	#	96
52) 1,2-DCA	4.85	62	117319	9.94	ppb		99
53) Benzene	4.84	78	380495	9.92	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z13.D Vial: 12
Acq On : 17 Oct 20 14:44 Operator: LP,DG,CH
Sample : 201017A CCV 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:51 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54)	TCE	5.39	130	105610	9.89	ppb	95
55)	2-Pentanone	5.55	43	909336	149.87	ppb	99
56)	1,2-Dichloropropane	5.58	63	94842	10.12	ppb	99
57)	Bromodichloromethane	5.81	83	102445	10.34	ppb	99
58)	Methyl Cyclohexane	5.57	83	137718	9.78	ppb	94
59)	Dibromomethane	5.67	174	63316	10.18	ppb	96
60)	MIBK (methyl isobutyl ket	6.35	43	431967	54.05	ppb	99
61)	1-Bromo-2-chloroethane	6.08	144	15787	10.80	ppb	91
63)	Cis-1,3-Dichloropropene	6.21	75	125100	9.54	ppb	97
64)	Toluene	6.51	91	393092	10.11	ppb	98
65)	Trans-1,3-Dichloropropene	6.69	75	106265	9.71	ppb	99
66)	1,1,2-TCA	6.85	97	83159	10.78	ppb	98
67)	2-Hexanone	7.09	43	295832	54.55	ppb	99
70)	1,2-EDB	7.30	107	83150	10.73	ppb	97
71)	Tetrachloroethene	6.99	166	98790	9.78	ppb	98
72)	1-Chlorohexane	7.75	91	117058	9.16	ppb	96
73)	1,1,1,2-Tetrachloroethane	7.84	131	83309	11.29	ppb	98
74)	m&p-Xylene	7.98	91	636061	21.17	ppb	99
75)	o-Xylene	8.35	91	320368	10.74	ppb	97
76)	Styrene	8.36	104	256281	9.87	ppb	97
78)	1,3-Dichloropropane	7.00	76	139298	10.54	ppb	100
79)	Dibromochloromethane	7.20	129	75884	9.72	ppb	96
80)	Chlorobenzene	7.76	112	264422	10.09	ppb	96
81)	Ethylbenzene	7.87	91	417133	10.13	ppb	100
82)	Bromoform	8.52	173	46252	9.26	ppb	89
84)	Isopropylbenzene	8.70	105	402561	9.63	ppb	100
85)	1,1,2,2-Tetrachloroethane	8.97	83	104836	10.55	ppb	99
86)	1,2,3-Trichloropropane	9.01	110	34699	10.89	ppb	91
87)	t-1,4-Dichloro-2-Butene	9.03	53	23301	9.64	ppb	97
88)	Bromobenzene	8.97	77	189603	10.09	ppb	98
89)	n-Propylbenzene	9.10	91	502166	10.37	ppb	100
90)	4-Ethyltoluene	9.21	105	435558	10.69	ppb	99
91)	2-Chlorotoluene	9.16	91	340730	10.28	ppb	100
92)	1,3,5-Trimethylbenzene	9.27	105	356831	10.76	ppb	97
93)	4-Chlorotoluene	9.27	91	351966	10.58	ppb	98
94)	Tert-Butylbenzene	9.58	119	298600	9.56	ppb	100
95)	1,2,4-Trimethylbenzene	9.63	105	358504	9.77	ppb	99
96)	Sec-Butylbenzene	9.79	105	467659	9.61	ppb	99
97)	p-Isopropyltoluene	9.94	119	395046	10.41	ppb	99
98)	Benzyl Chloride	10.10	91	126355	8.92	ppb	98
99)	1,3-DCB	9.88	146	217553	10.11	ppb	99
100)	1,4-DCB	9.97	146	227896	10.05	ppb	98
101)	n-Butylbenzene	10.33	91	364603	9.56	ppb	99
102)	1,2-DCB	10.33	146	208124	10.52	ppb	100
103)	Hexachloroethane	10.59	201	40591	8.62	ppb	96
104)	1,2-Dibromo-3-chloropropan	11.08	157	19651	9.14	ppb	95
105)	1,2,4-Trichlorobenzene	11.92	180	126928	9.44	ppb	98
106)	Hexachlorobutadiene	12.11	225	60646	10.06	ppb	96
107)	Naphthalene	12.15	128	306344	9.39	ppb	98
108)	1,2,3-Trichlorobenzene	12.39	180	122939	9.84	ppb	99

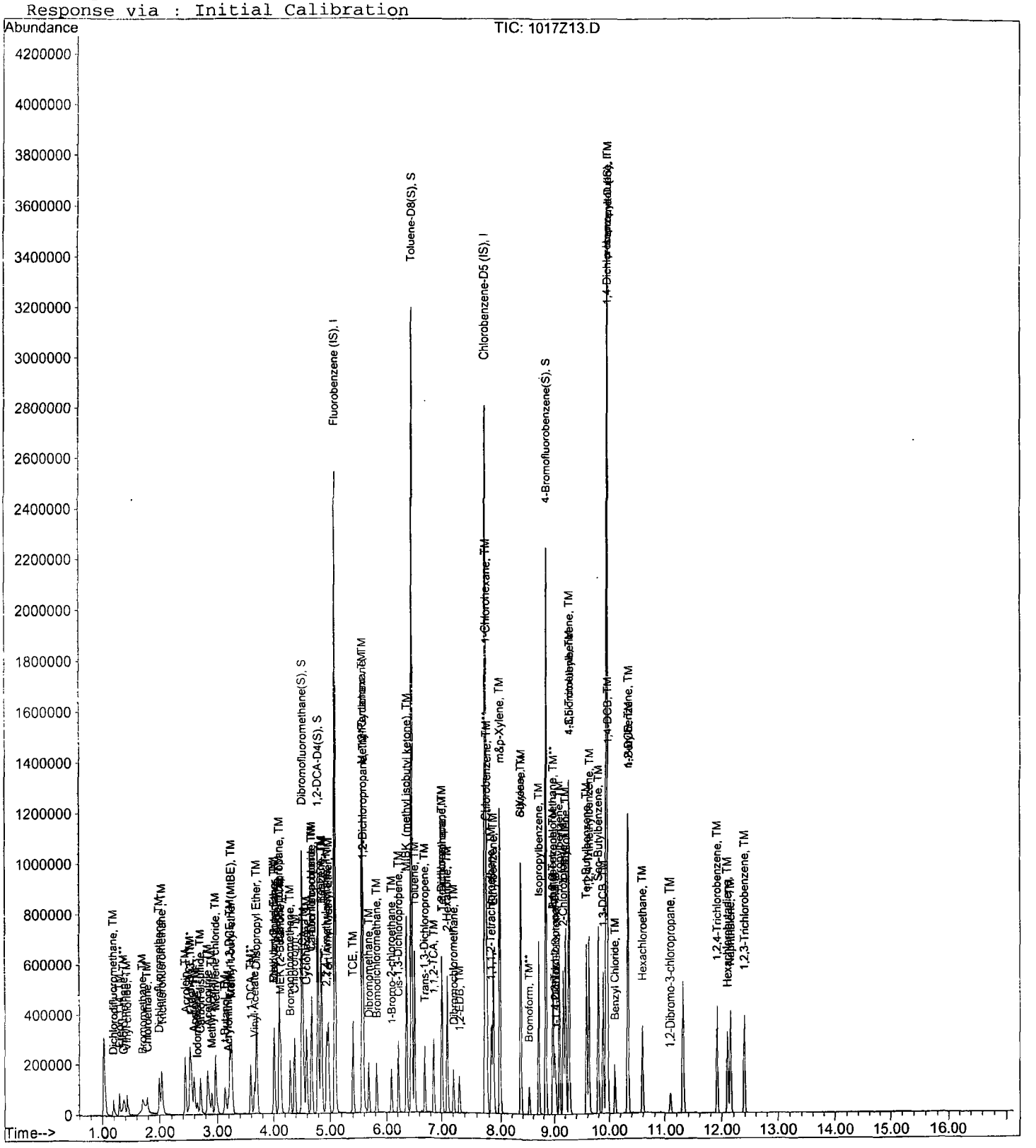
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z13.D Vial: 12
Acq On : 17 Oct 20 14:44 Operator: LP,DG,CH
Sample : 201017A CCV 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:51 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/18/20
Matrix: Water Instrument: ZEUS
Initial Cal. Date: 10/16/20
Data File: 1017Z44.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TML	Dichlorodifluoromethane	0.0335	0.0324	3.3	TML	7.2	
3	TMQ	Freon 114	0.0450	0.0260	42	TMQ	9.5	
4	TM**	Chloromethane	0.1383	0.1329	3.9	TM**		
5	TM*	Vinyl chloride	0.1091	0.1042	4.5	TM*		
6		Butane	0.0000	0.0002	0.00			
7	TM	Bromomethane	0.0376	0.0372	1.0	TM		
8	TML	Chloroethane	0.0554	0.0419	24	TML	7.3	
9	TM	Dichlorofluoromethane	0.2076	0.2009	3.3	TM		
10	TM	Trichlorofluoromethane	0.1548	0.1750	13	TM		
11	TM	Pentane	0.0000	0.0021	0.00	TM		
12	TM	Acrolein	0.0118	0.0106	10.0	TM		
13	TM	Acetone	0.0431	0.0464	7.6	TM		
14	TML	Freon-113	0.1032	0.0920	11	TML	4.9	
15	TM*	1,1-DCE	0.1630	0.1562	4.2	TM*		
16	TM	2-Propanol	0.0000	0.0000	0.00	TM		
17	TM	Acetonitrile	0.0051	0.0053	4.5	TM		
18	TM	t-Butanol	0.0046	0.0051	10	TM		
19	TM	Methyl Acetate	0.1140	0.1095	4.0	TM		
20	TML	Iodomethane	0.0720	0.0934	30	TML	1.3	
21	TM	Acrylonitrile	0.0460	0.0477	3.7	TM		
22	TML	Methylene chloride	0.1913	0.1396	27	TML	2.0	
23	TML	Carbon disulfide	0.1584	0.1353	15	TML	9.3	
24	TM	Methyl t-butyl ether (MtBE)	0.2632	0.2959	12	TM		
25	TM	Trans-1,2-DCE	0.1606	0.1573	2.1	TM		
26	TM	Hexane	0.0000	0.0001	0.00	TM		
27	TM	Diisopropyl Ether	0.3542	0.3742	5.7	TM		
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0001	0.00	TM**		
29	TM**	1,1-DCA	0.2070	0.2086	0.78	TM**		
30	TM	Vinyl Acetate	0.1778	0.0873	51	TM		*NT
31	TML	Ethyl tert Butyl Ether	0.2821	0.3039	7.7	TML	2.3	
32	TM	MEK (2-Butanone)	0.0549	0.0614	12	TM		
33	TM	Cis-1,2-DCE	0.1853	0.1821	1.7	TM		
34	TM	2,2-Dichloropropane	0.1362	0.1088	20	TM		
35	TM	3-Methylpentane	0.0000	0.0700	0.00	TM		
36	TM*	Chloroform	0.2005	0.2124	5.9	TM*		
37	TM	Bromochloromethane	0.1046	0.1063	1.6	TM		
38	S	Dibromofluoromethane(S)	0.2392	0.2663	11	S		
39	TM	1,1,1-TCA	0.1591	0.1654	4.0	TM		
40	TML	Cyclohexane	0.1713	0.1514	12	TML	12	
		Average			9.5			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/18/20
Instrument: ZEUS
Cal. Date: 10/16/20
Data File: 1017Z44.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	1,1-Dichloropropene	0.1455	0.1433	1.5	TM	
42	TML	2,2,4-Trimethylpentane	0.3475	0.2800	19	TML	19
43	S	1,2-DCA-D4(S)	0.2492	0.2797	12	S	
44	TM	Carbon Tetrachloride	0.1298	0.1325	2.1	TM	
45	TML	Tert Amyl Methyl Ether	0.2470	0.2682	8.6	TML	1.8
46	TM	Methylcyclopentane	0.0199	0.0215	8.2	TM	
47	TM	1,2-DCA	0.1506	0.1582	5.1	TM	
48	TM	Benzene	0.4893	0.4933	0.80	TM	
49	TM	TCE	0.1362	0.1510	11	TM	
50	TM	2-Pentanone	0.0774	0.0918	19	TM	
51	TM*	1,2-Dichloropropane	0.1195	0.1171	2.0	TM*	
52	TM	Bromodichloromethane	0.1263	0.1346	6.5	TM	
53	TM	Methyl Cyclohexane	0.1796	0.1577	12	TM	
54	TM	Dibromomethane	0.0793	0.0849	7.0	TM	
55	TMQ	MIBK (methyl isobutyl ketone)	0.0918	0.1076	17	TMQ	6.2
56	TM	1-Bromo-2-chloroethane	0.0186	0.0208	12	TM	
57	TM	2-Chloroethyl vinyl ether	0.0000	0.0001	0.00	TM	
58	TML	Cis-1,3-Dichloropropene	0.1536	0.1541	0.33	TML	7.4
59	TM*	Toluene	0.4961	0.5102	2.8	TM*	
60	TML	Trans-1,3-Dichloropropene	0.1259	0.1297	3.0	TML	6.4
61	TM	1,1,2-TCA	0.0984	0.1063	8.0	TM	
62	TMQ	2-Hexanone	0.0621	0.0732	18	TMQ	6.7
63	I	Chlorobenzene-D5 (IS)	ISTD			I	
64	S	Toluene-D8(S)	1.240	1.374	11	S	
65	TM	1,2-EDB	0.1411	0.1527	8.2	TM	
66	TM	Tetrachloroethene	0.1840	0.1835	0.24	TM	
67	TM	1-Chlorohexane	0.2326	0.2083	10	TM	
68	TM	1,1,1,2-Tetrachloroethane	0.1343	0.1557	16	TM	
69	TM	m&p-Xylene	0.5469	0.5988	9.5	TM	
70	TM	o-Xylene	0.5432	0.6007	11	TM	
71	TML	Styrene	0.4049	0.4790	18	TML	1.1
72	SL	4-Bromofluorobenzene(S)	0.4272	0.4881	14	SL	4.7
73	TM	1,3-Dichloropropane	0.2406	0.2517	4.6	TM	
74	TML	Dibromochloromethane	0.1298	0.1365	5.2	TML	3.8
75	TM**	Chlorobenzene	0.4773	0.4950	3.7	TM**	
76	TM*	Ethylbenzene	0.7494	0.7705	2.8	TM*	
77	TM**L	Bromoform	0.0758	0.0825	8.9	TM**L	9.0
78	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
79	TML	Isopropylbenzene	1.259	1.369	8.7	TML	1.2
80	TM**	1,1,2,2-Tetrachloroethane	0.3279	0.3091	5.7	TM**	
		Average			8.2		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/18/20
Matrix: Water Instrument: ZEUS
Cal. Date: 10/16/20
Data File: 1017Z44.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,2,3-Trichloropropane	0.1052	0.1191	13	TM	
82	TML	t-1,4-Dichloro-2-Butene	0.0785	0.0720	8.3	TML	8.1
83	TM	Bromobenzene	0.6202	0.6348	2.4	TM	
84	TM	n-Propylbenzene	1.598	1.687	5.5	TM	
85	TM	4-Ethyltoluene	1.345	1.485	10	TM	
86	TM	2-Chlorotoluene	1.094	1.154	5.4	TM	
87	TM	1,3,5-Trimethylbenzene	1.094	1.245	14	TM	
88	TM	4-Chlorotoluene	1.097	1.193	8.7	TM	
89	TML	Tert-Butylbenzene	0.9339	1.024	9.7	TML	1.2
90	TML	1,2,4-Trimethylbenzene	1.078	1.232	14	TML	1.3
91	TML	Sec-Butylbenzene	1.460	1.557	6.6	TML	3.1
92	TM	p-Isopropyltoluene	1.252	1.352	8.0	TM	
93	TML	Benzyl Chloride	0.4191	0.2766	34	TML	32
94	TM	1,3-DCB	0.7101	0.7519	5.9	TM	
95	TM	1,4-DCB	0.7482	0.7726	3.3	TM	
96	TML	n-Butylbenzene	1.113	1.193	7.2	TML	5.2
97	TM	1,2-DCB	0.6531	0.7073	8.3	TM	
98	TML	Hexachloroethane	0.1423	0.1470	3.3	TML	7.9
99	TML	1,2-Dibromo-3-chloropropane	0.0644	0.0688	6.8	TML	4.5
100	TML	1,2,4-Trichlorobenzene	0.4023	0.4424	10.0	TML	1.0
101	TM	Hexachlorobutadiene	0.1989	0.2095	5.3	TM	
102	TML	Naphthalene	0.9042	1.054	17	TML	2.9
103	TML	1,2,3-Trichlorobenzene	0.3736	0.4177	12	TML	0.96
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			9.5		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z44.D Vial: 43
Acq On : 18 Oct 20 02:43 Operator: LP,DG,CH
Sample : Ending CCV 10ug/L 10/17/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:53 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1871678	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1305115	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	716435	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	498352	27.83	ppb		0.00
Spiked Amount 25.000			Recovery =	111.324%			
48) 1,2-DCA-D4(S)	4.78	65	523516	28.06	ppb		0.00
Spiked Amount 25.000			Recovery =	112.248%			
69) Toluene-D8(S)	6.44	98	1793571	27.71	ppb		0.00
Spiked Amount 25.000			Recovery =	110.848%			
77) 4-Bromofluorobenzene(S)	8.83	95	637063	26.17	ppb		0.00
Spiked Amount 25.000			Recovery =	104.688%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	24256	10.72	ppb		93
4) Freon 114	1.29	85	19472	9.05	ppb		89
5) Chloromethane	1.37	50	99484	9.61	ppb		99
6) Vinyl chloride	1.43	62	78044	9.55	ppb		99
9) Bromomethane	1.70	94	27829	9.90	ppb		97
10) Chloroethane	1.78	64	31371	10.73	ppb		99
11) Dichlorofluoromethane	1.99	67	150405	9.67	ppb		97
12) Trichlorofluoromethane	2.03	101	131016	11.30	ppb		98
16) Acrolein	2.43	55	99246	112.54	ppb		97
17) Acetone	2.59	43	173585	53.78	ppb		96
18) Freon-113	2.54	101	68902	9.51	ppb		97
19) 1,1-DCE	2.52	61	116972	9.58	ppb		97
21) Acetonitrile	2.83	40	49852	130.68	ppb		95
22) t-Butanol	3.13	59	47592	137.84	ppb		96
23) Methyl Acetate	2.90	43	81960	9.60	ppb		95
24) Iodomethane	2.64	142	69954	9.87	ppb		98
25) Acrylonitrile	3.19	52	35728	10.37	ppb		96
26) Methylene chloride	2.97	84	104536	9.80	ppb		95
27) Carbon disulfide	2.70	76	101264	9.07	ppb		99
28) Methyl t-butyl ether (MtBE	3.25	73	221569	11.24	ppb		98
29) Trans-1,2-DCE	3.22	61	117733	9.79	ppb		97
31) Diisopropyl Ether	3.69	45	280179	10.57	ppb		99
33) 1,1-DCA	3.59	63	156195	10.08	ppb		96
34) Vinyl Acetate	3.65	43	65329	4.91	ppb		98
35) Ethyl tert Butyl Ether	4.00	59	227496	9.77	ppb		98
36) MEK (2-Butanone)	4.12	43	230010	56.01	ppb		100
37) Cis-1,2-DCE	4.09	61	136355	9.83	ppb		99
38) 2,2-Dichloropropane	4.09	77	81467	7.99	ppb		98
41) Chloroform	4.37	83	159001	10.59	ppb		96
42) Bromochloromethane	4.29	49	79548	10.16	ppb	#	85
44) 1,1,1-TCA	4.52	97	123831	10.40	ppb		96
45) Cyclohexane	4.58	56	113353	8.85	ppb		93
46) 1,1-Dichloropropene	4.67	75	107312	9.85	ppb		99
47) 2,2,4-Trimethylpentane	4.93	57	209634	8.10	ppb		99
49) Carbon Tetrachloride	4.67	117	99235	10.21	ppb		96
50) Tert Amyl Methyl Ether	4.97	73	200818	9.82	ppb		98
51) Methylcyclopentane	4.00	56	16129	10.82	ppb	#	96
52) 1,2-DCA	4.84	62	118413	10.51	ppb		98
53) Benzene	4.84	78	369294	10.08	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z44.D Vial: 43
Acq On : 18 Oct 20 02:43 Operator: LP,DG,CH
Sample : Ending CCV 10ug/L 10/17/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:53 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
54)	TCE	5.40	130	113045	11.08 ppb		99
55)	2-Pentanone	5.55	43	859266	148.30 ppb		99
56)	1,2-Dichloropropane	5.57	63	87672	9.80 ppb	#	97
57)	Bromodichloromethane	5.81	83	100750	10.65 ppb		97
58)	Methyl Cyclohexane	5.57	83	118053	8.78 ppb		97
59)	Dibromomethane	5.67	174	63561	10.70 ppb		91
60)	MIBK (methyl isobutyl ket	6.35	43	402651	53.08 ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	15578	11.16 ppb		90
63)	Cis-1,3-Dichloropropene	6.21	75	115360	9.26 ppb		98
64)	Toluene	6.50	91	381975	10.28 ppb		98
65)	Trans-1,3-Dichloropropene	6.69	75	97097	9.36 ppb		98
66)	1,1,2-TCA	6.85	97	79558	10.80 ppb		99
67)	2-Hexanone	7.09	43	274073	53.33 ppb		99
70)	1,2-EDB	7.30	107	79703	10.82 ppb		94
71)	Tetrachloroethene	6.99	166	95807	9.98 ppb		98
72)	1-Chlorohexane	7.75	91	108741	8.95 ppb		94
73)	1,1,1,2-Tetrachloroethane	7.84	131	81273	11.59 ppb		99
74)	m&p-Xylene	7.98	91	625166	21.90 ppb		98
75)	o-Xylene	8.35	91	313569	11.06 ppb		99
76)	Styrene	8.36	104	250082	10.11 ppb		98
78)	1,3-Dichloropropane	7.00	76	131381	10.46 ppb		97
79)	Dibromochloromethane	7.20	129	71274	9.62 ppb		99
80)	Chlorobenzene	7.76	112	258403	10.37 ppb		99
81)	Ethylbenzene	7.87	91	402244	10.28 ppb		100
82)	Bromoform	8.51	173	43075	9.10 ppb		99
84)	Isopropylbenzene	8.70	105	392303	9.88 ppb		98
85)	1,1,2,2-Tetrachloroethane	8.97	83	88575	9.43 ppb		95
86)	1,2,3-Trichloropropane	9.01	110	34118	11.32 ppb		95
87)	t-1,4-Dichloro-2-Butene	9.02	53	20624	9.19 ppb		98
88)	Bromobenzene	8.97	77	181925	10.24 ppb		97
89)	n-Propylbenzene	9.09	91	483336	10.55 ppb		100
90)	4-Ethyltoluene	9.20	105	425622	11.04 ppb		100
91)	2-Chlorotoluene	9.16	91	330565	10.54 ppb		99
92)	1,3,5-Trimethylbenzene	9.26	105	356806	11.38 ppb		98
93)	4-Chlorotoluene	9.27	91	341943	10.87 ppb		98
94)	Tert-Butylbenzene	9.58	119	293450	9.88 ppb		97
95)	1,2,4-Trimethylbenzene	9.63	105	352972	10.13 ppb		99
96)	Sec-Butylbenzene	9.79	105	446194	9.69 ppb		99
97)	p-Isopropyltoluene	9.94	119	387465	10.80 ppb		99
98)	Benzyl Chloride	10.10	91	79252	6.85 ppb		99
99)	1,3-DCB	9.88	146	215476	10.59 ppb		98
100)	1,4-DCB	9.97	146	221412	10.33 ppb		99
101)	n-Butylbenzene	10.33	91	341797	9.48 ppb		98
102)	1,2-DCB	10.33	146	202692	10.83 ppb		97
103)	Hexachloroethane	10.59	201	42139	9.21 ppb		97
104)	1,2-Dibromo-3-chloropropan	11.08	157	19717	9.55 ppb		97
105)	1,2,4-Trichlorobenzene	11.92	180	126791	9.90 ppb		99
106)	Hexachlorobutadiene	12.11	225	60046	10.53 ppb		98
107)	Naphthalene	12.15	128	301912	9.71 ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	119698	10.10 ppb		96

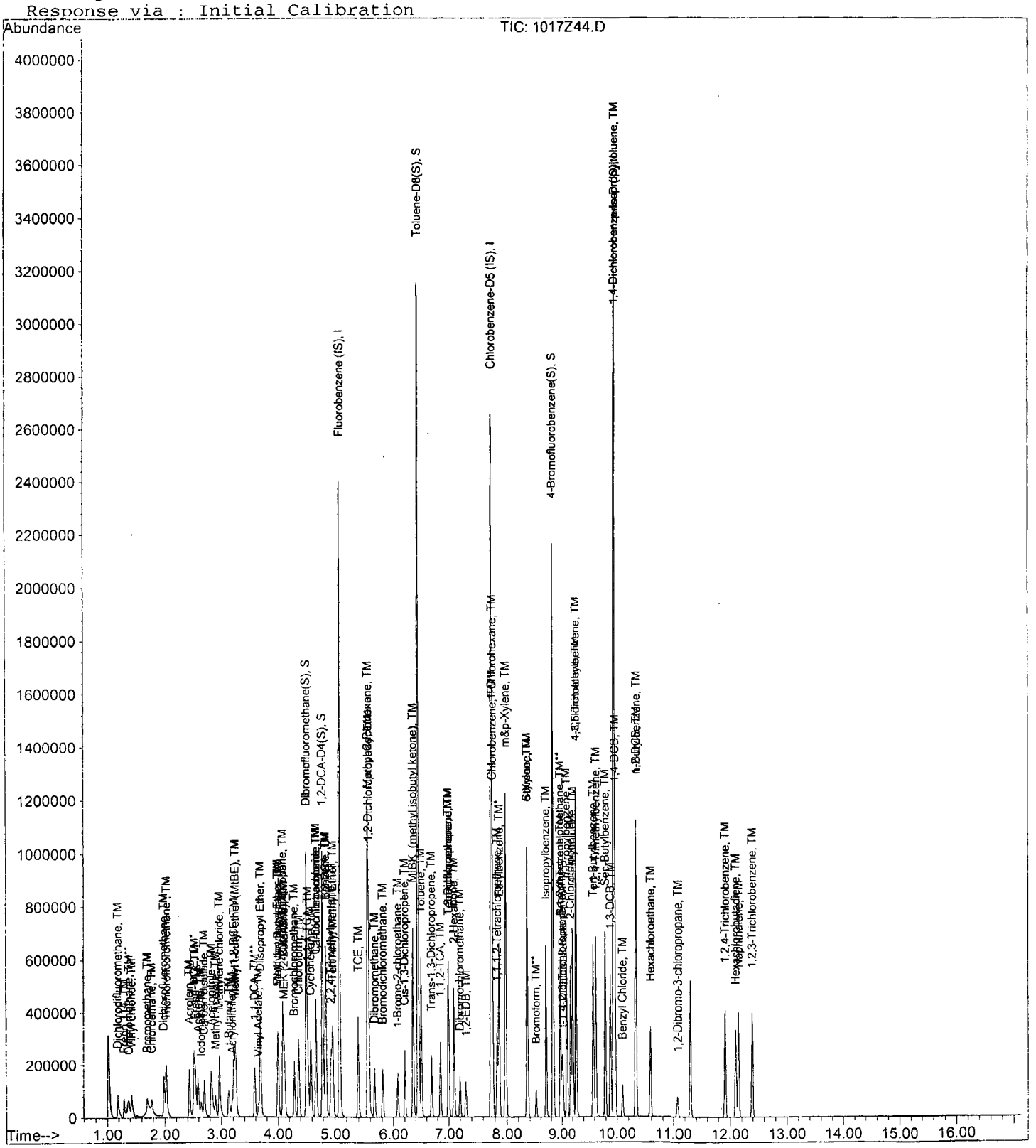
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z44.D Vial: 43
Acq On : 18 Oct 20 02:43 Operator: LP,DG,CH
Sample : Ending CCV 10ug/L 10/17/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:53 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z20.D
Acq On : 17 Oct 20 17:26
Sample : BA20183W01
Misc :

Vial: 19
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 6:45 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1831471	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1270903	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	685204	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	491515	28.05	ppb	0.00
Spiked Amount 25.000			Recovery = 112.208%			
48) 1,2-DCA-D4(S)	4.78	65	522034	28.60	ppb	0.00
Spiked Amount 25.000			Recovery = 114.388%			
69) Toluene-D8(S)	6.44	98	1721476	27.31	ppb	0.00
Spiked Amount 25.000			Recovery = 109.256%			
77) 4-Bromofluorobenzene(S)	8.83	95	598663	25.30	ppb	0.00
Spiked Amount 25.000			Recovery = 101.208%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

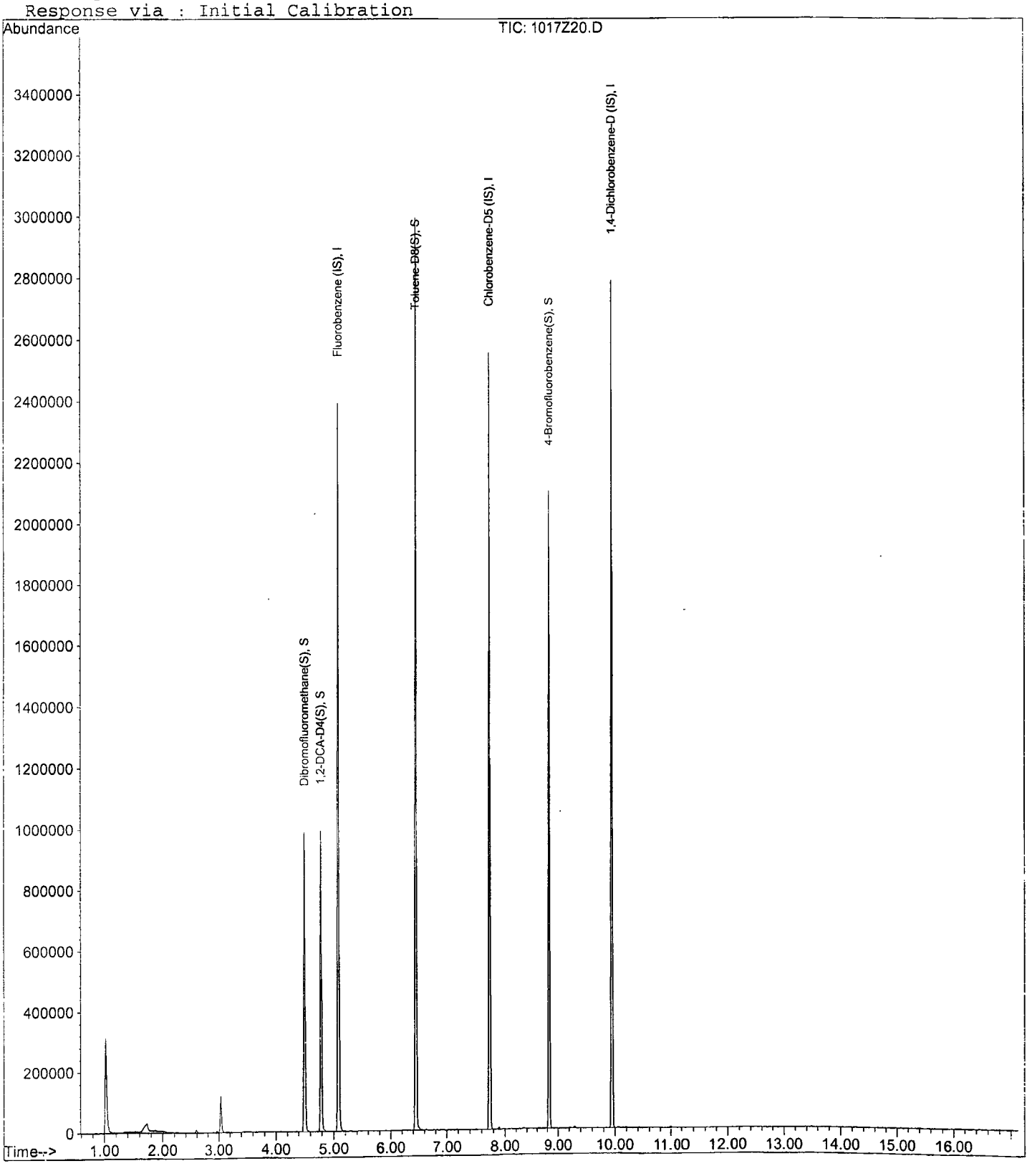
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z20.D
Acq On : 17 Oct 20 17:26
Sample : BA20183W01
Misc :

Vial: 19
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 6:45 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z21.D Vial: 20
Acq On : 17 Oct 20 17:49 Operator: LP,DG,CH
Sample : BA20184W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:48 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1796295	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1238277	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	672109	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	477604	27.79	ppb	0.00
Spiked Amount 25.000			Recovery =	111.164%		
48) 1,2-DCA-D4(S)	4.78	65	501342	28.00	ppb	0.00
Spiked Amount 25.000			Recovery =	112.008%		
69) Toluene-D8(S)	6.45	98	1661957	27.06	ppb	0.00
Spiked Amount 25.000			Recovery =	108.256%		
77) 4-Bromofluorobenzene(S)	8.83	95	575952	25.00	ppb	0.00
Spiked Amount 25.000			Recovery =	100.000%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

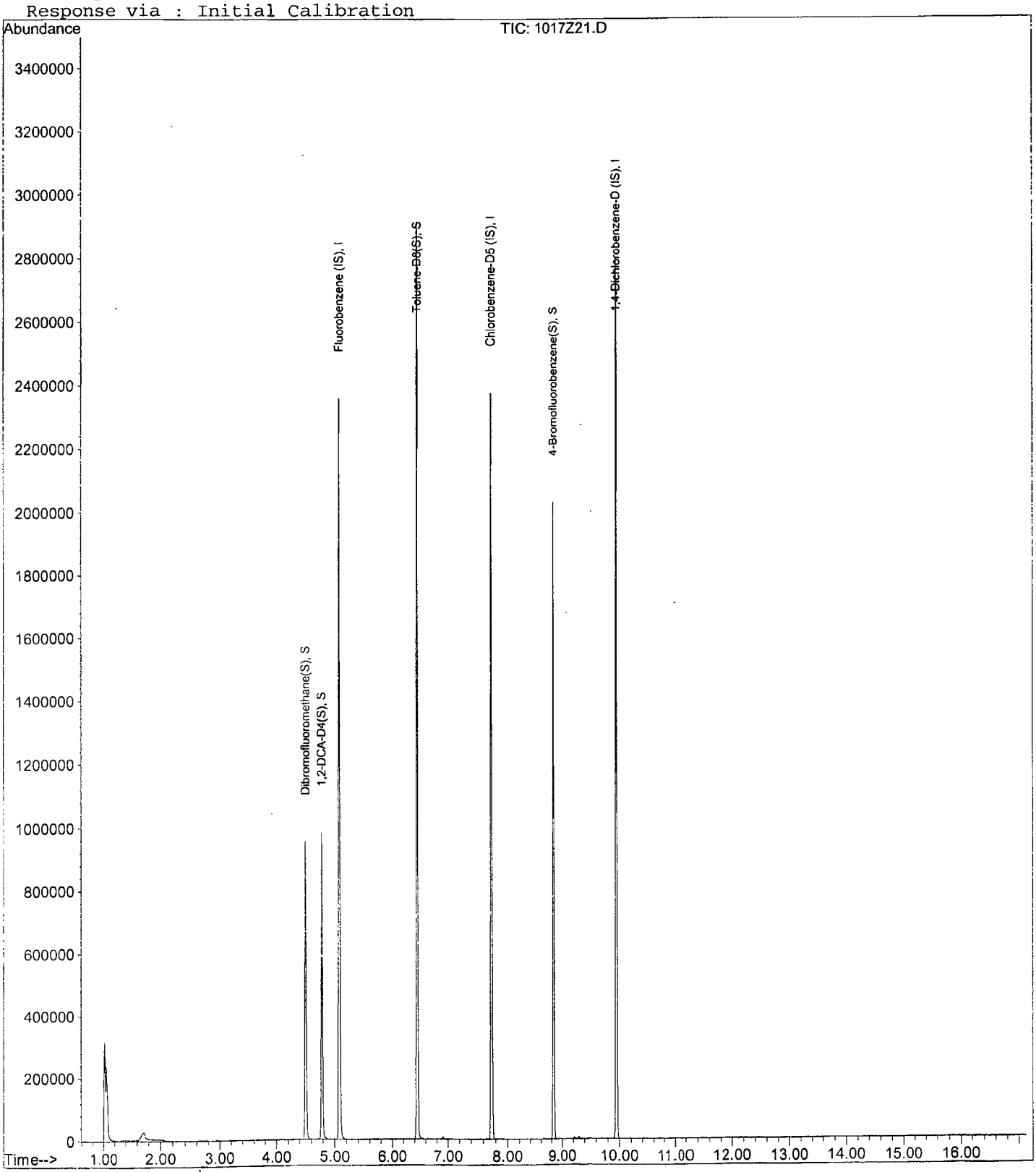
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z21.D
Acq On : 17 Oct 20 17:49
Sample : BA20184W01
Misc :

Vial: 20
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 6:48 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z22.D Vial: 21
Acq On : 17 Oct 20 18:13 Operator: LP,DG,CH
Sample : BA20185W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:48 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1644433	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1147149	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	623269	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	455423	28.95	ppb	0.00
Spiked Amount 25.000			Recovery = 115.792%			
48) 1,2-DCA-D4(S)	4.78	65	473068	28.86	ppb	0.00
Spiked Amount 25.000			Recovery = 115.452%			
69) Toluene-D8(S)	6.44	98	1563965	27.49	ppb	0.00
Spiked Amount 25.000			Recovery = 109.968%			
77) 4-Bromofluorobenzene(S)	8.83	95	543087	25.42	ppb	0.00
Spiked Amount 25.000			Recovery = 101.692%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

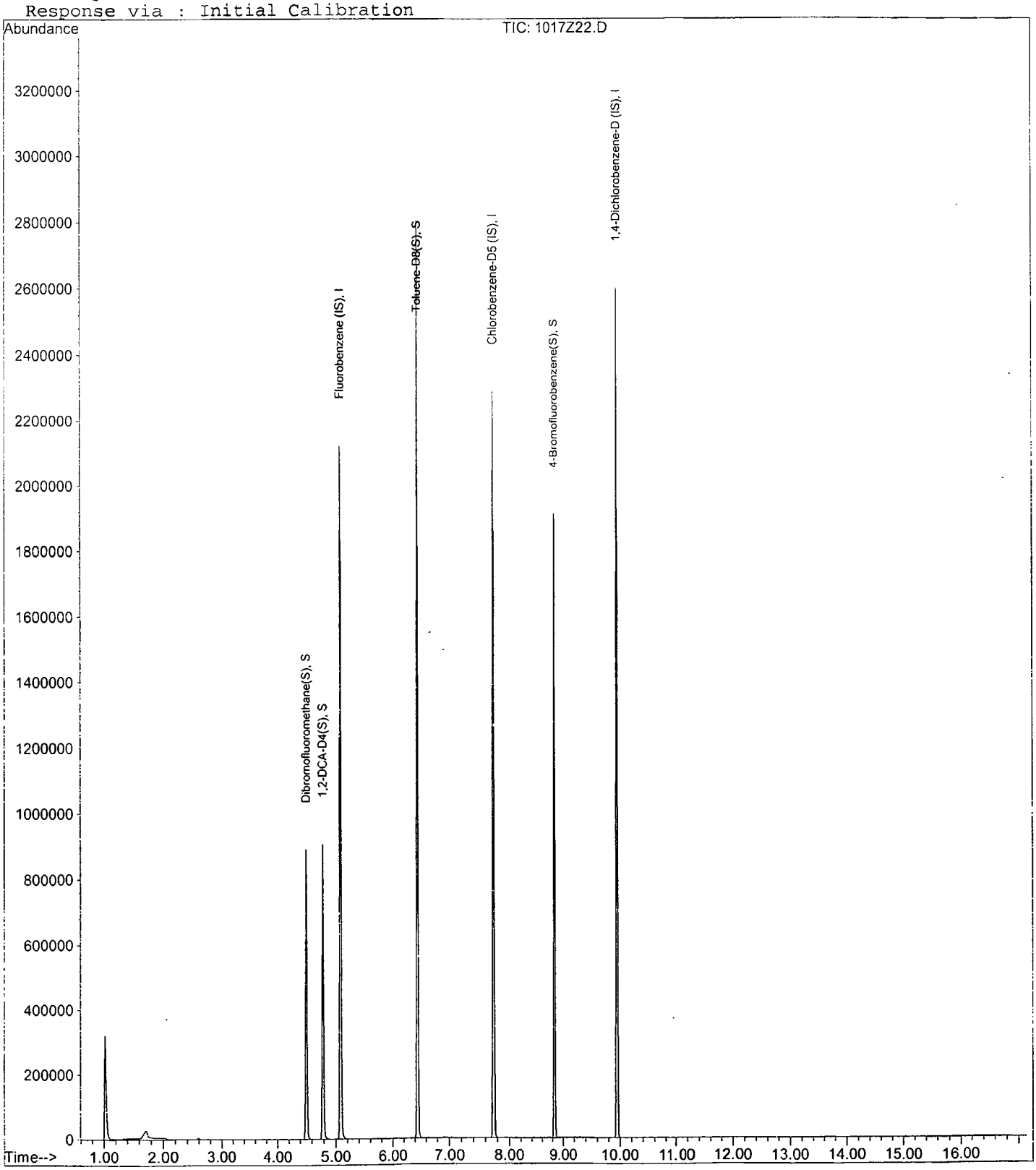
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z22.D
Acq On : 17 Oct 20 18:13
Sample : BA20185W01
Misc :

Vial: 21
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 6:48 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z23.D Vial: 22
Acq On : 17 Oct 20 18:36 Operator: LP,DG,CH
Sample : BA20186W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:50 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1672561	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1148242	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	625770	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	454803	28.42	ppb	0.00
Spiked Amount 25.000			Recovery =	113.688%		
48) 1,2-DCA-D4(S)	4.78	65	482895	28.97	ppb	0.00
Spiked Amount 25.000			Recovery =	115.868%		
69) Toluene-D8(S)	6.44	98	1565494	27.49	ppb	0.00
Spiked Amount 25.000			Recovery =	109.968%		
77) 4-Bromofluorobenzene(S)	8.83	95	540867	25.30	ppb	0.00
Spiked Amount 25.000			Recovery =	101.208%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

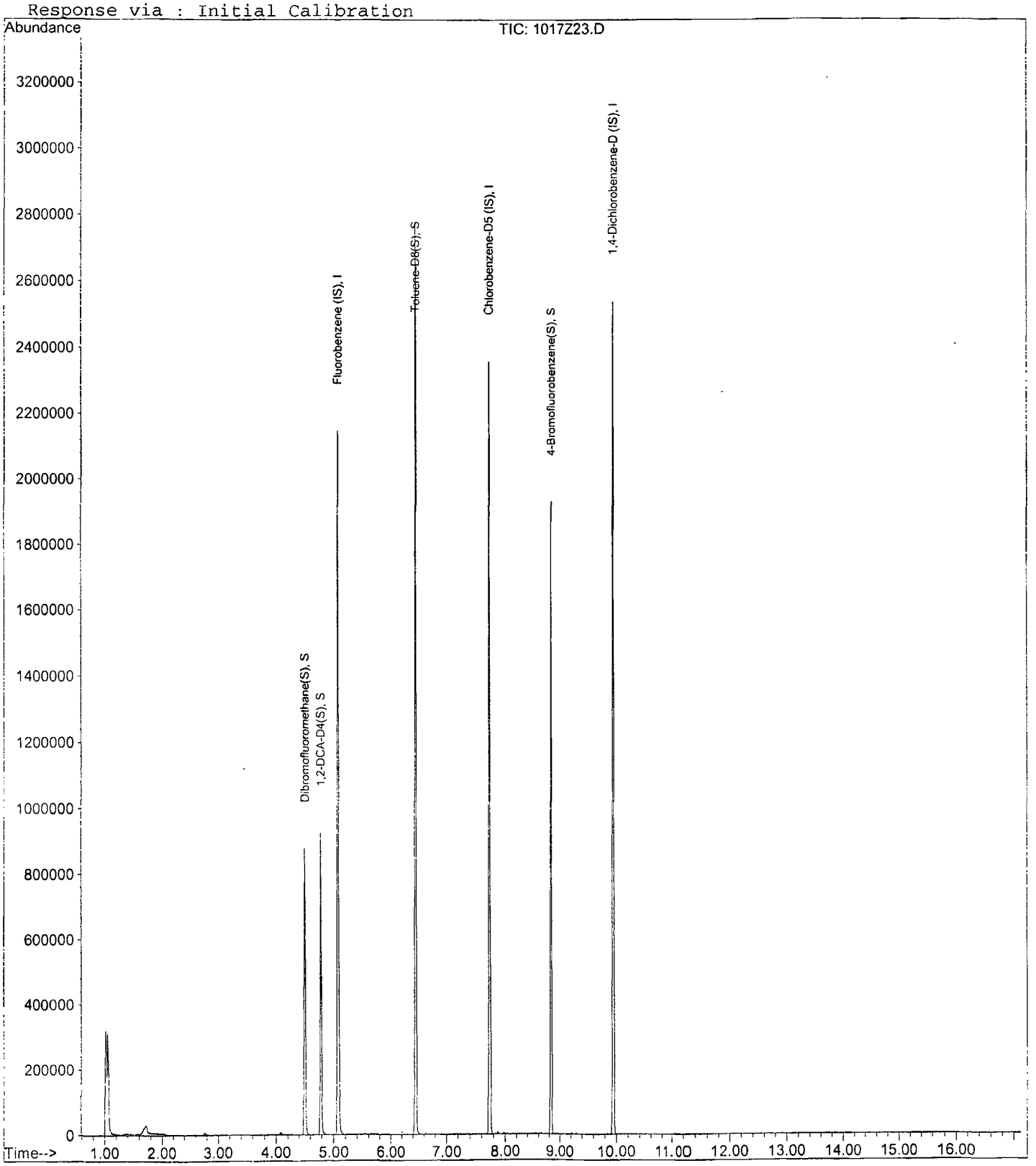
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z23.D
Acq On : 17 Oct 20 18:36
Sample : BA20186W01
Misc :

Vial: 22
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 6:50 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z24.D Vial: 23
Acq On : 17 Oct 20 18:59 Operator: LP,DG,CH
Sample : BA20187W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:51 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1616625	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1126123	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	611888	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	442493	28.61	ppb	0.00
Spiked Amount 25.000			Recovery =	114.440%		
48) 1,2-DCA-D4(S)	4.78	65	469248	29.12	ppb	0.00
Spiked Amount 25.000			Recovery =	116.488%		
69) Toluene-D8(S)	6.44	98	1527462	27.35	ppb	0.00
Spiked Amount 25.000			Recovery =	109.404%		
77) 4-Bromofluorobenzene(S)	8.83	95	523228	24.97	ppb	0.00
Spiked Amount 25.000			Recovery =	99.900%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

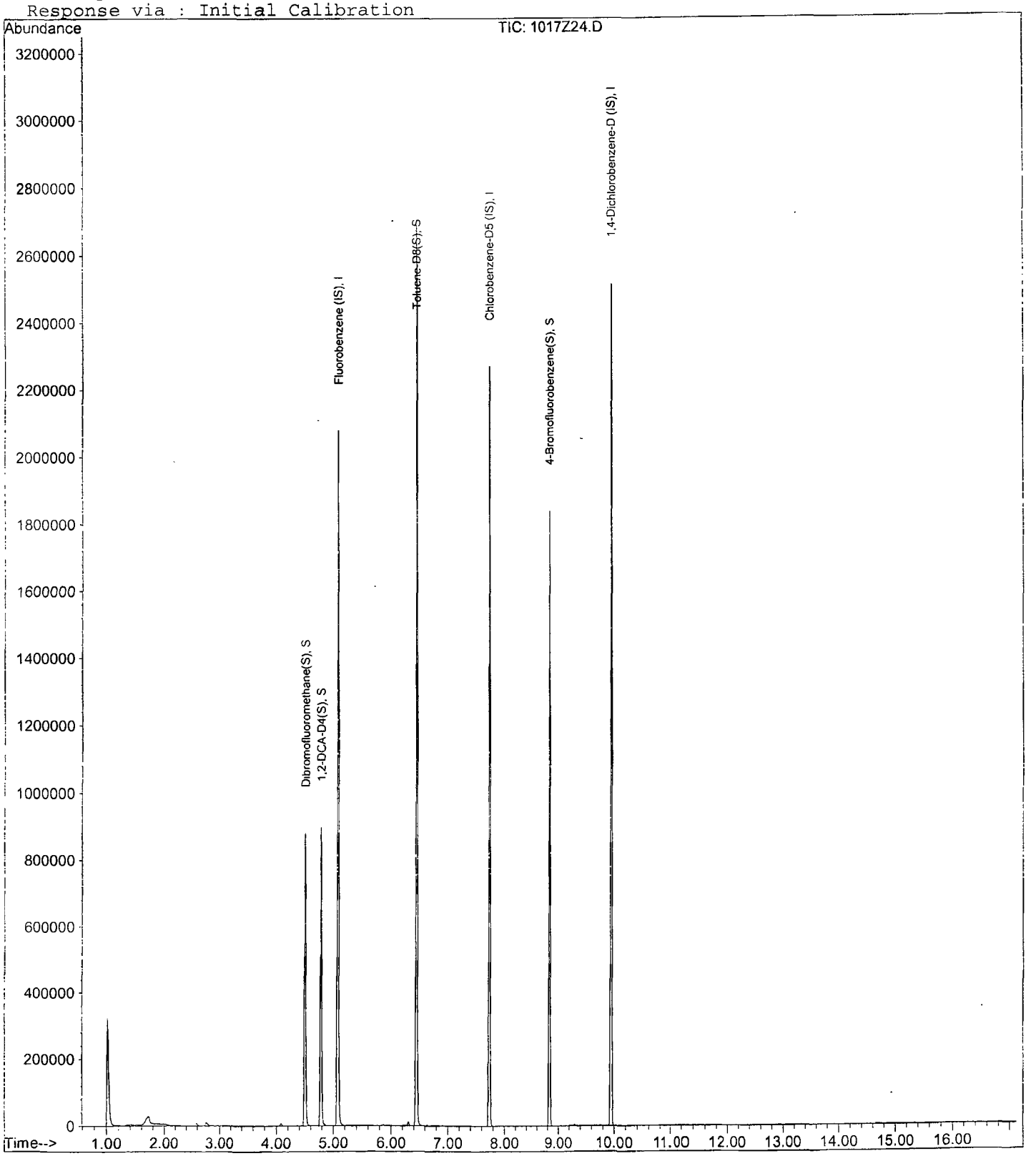
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z24.D
Acq On : 17 Oct 20 18:59
Sample : BA20187W01
Misc :

Vial: 23
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 6:51 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z25.D Vial: 24
Acq On : 17 Oct 20 19:22 Operator: LP,DG,CH
Sample : BA20188W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:51 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1604335	25.00 ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1112571	25.00 ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	601451	25.00 ppb	0.00
System Monitoring Compounds					
43) Dibromofluoromethane(S)	4.50	111	434925	28.34 ppb	0.00
Spiked Amount 25.000			Recovery =	113.344%	
48) 1,2-DCA-D4(S)	4.78	65	466940	29.20 ppb	0.00
Spiked Amount 25.000			Recovery =	116.804%	
69) Toluene-D8(S)	6.44	98	1497187	27.14 ppb	0.00
Spiked Amount 25.000			Recovery =	108.544%	
77) 4-Bromofluorobenzene(S)	8.83	95	512875	24.79 ppb	0.00
Spiked Amount 25.000			Recovery =	99.156%	

Target Compounds Qvalue

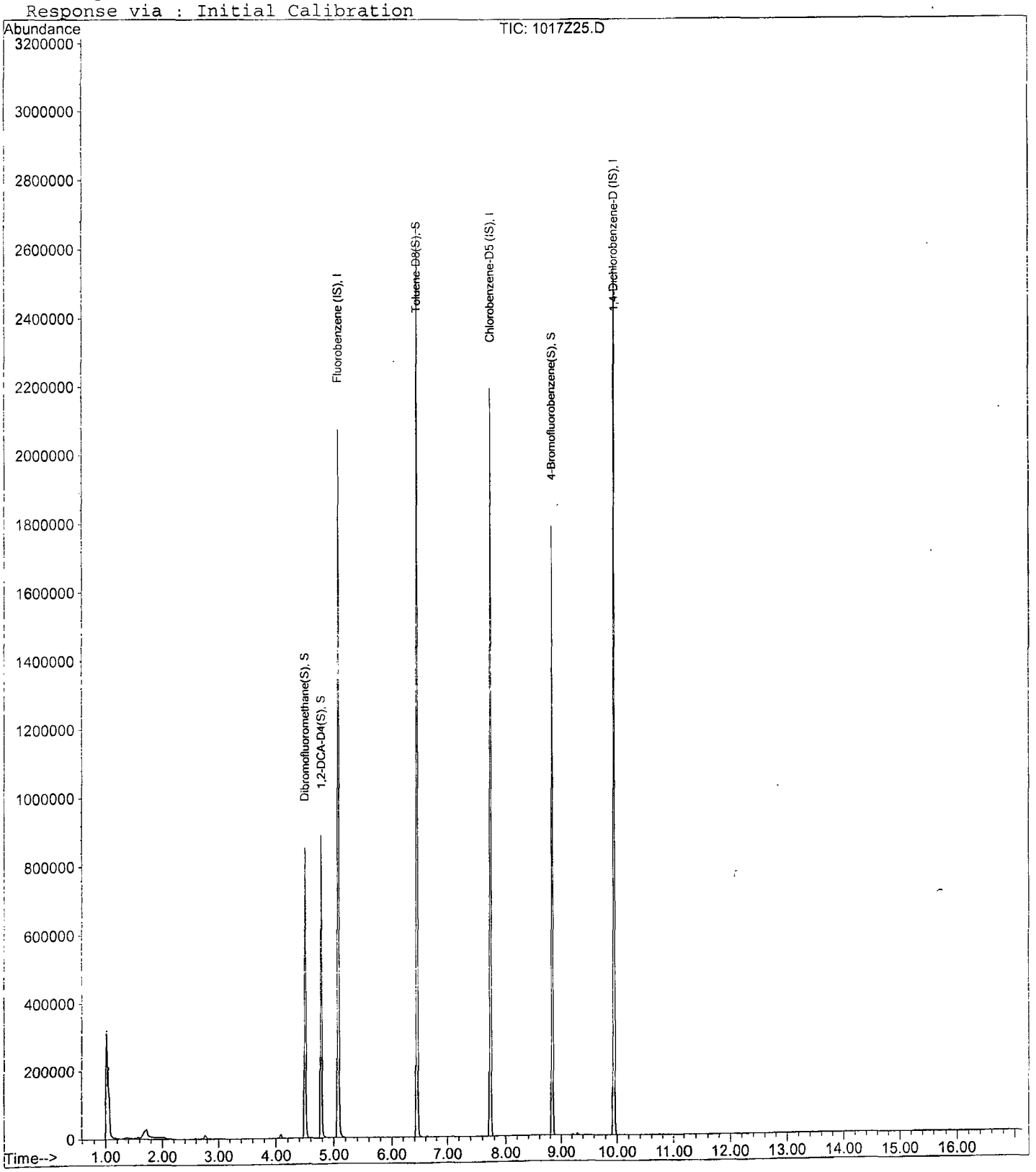
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z25.D Vial: 24
Acq On : 17 Oct 20 19:22 Operator: LP,DG,CH
Sample : BA20188W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:51 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z26.D Vial: 25
Acq On : 17 Oct 20 19:45 Operator: LP,DG,CH
Sample : BA20189W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:51 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1564683	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1083939	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	583909	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	428104	28.60	ppb	0.00
Spiked Amount 25.000			Recovery = 114.392%			
48) 1,2-DCA-D4(S)	4.78	65	452006	28.98	ppb	0.00
Spiked Amount 25.000			Recovery = 115.932%			
69) Toluene-D8(S)	6.44	98	1470185	27.35	ppb	0.00
Spiked Amount 25.000			Recovery = 109.400%			
77) 4-Bromofluorobenzene(S)	8.83	95	503832	24.98	ppb	0.00
Spiked Amount 25.000			Recovery = 99.940%			

Target Compounds Qvalue

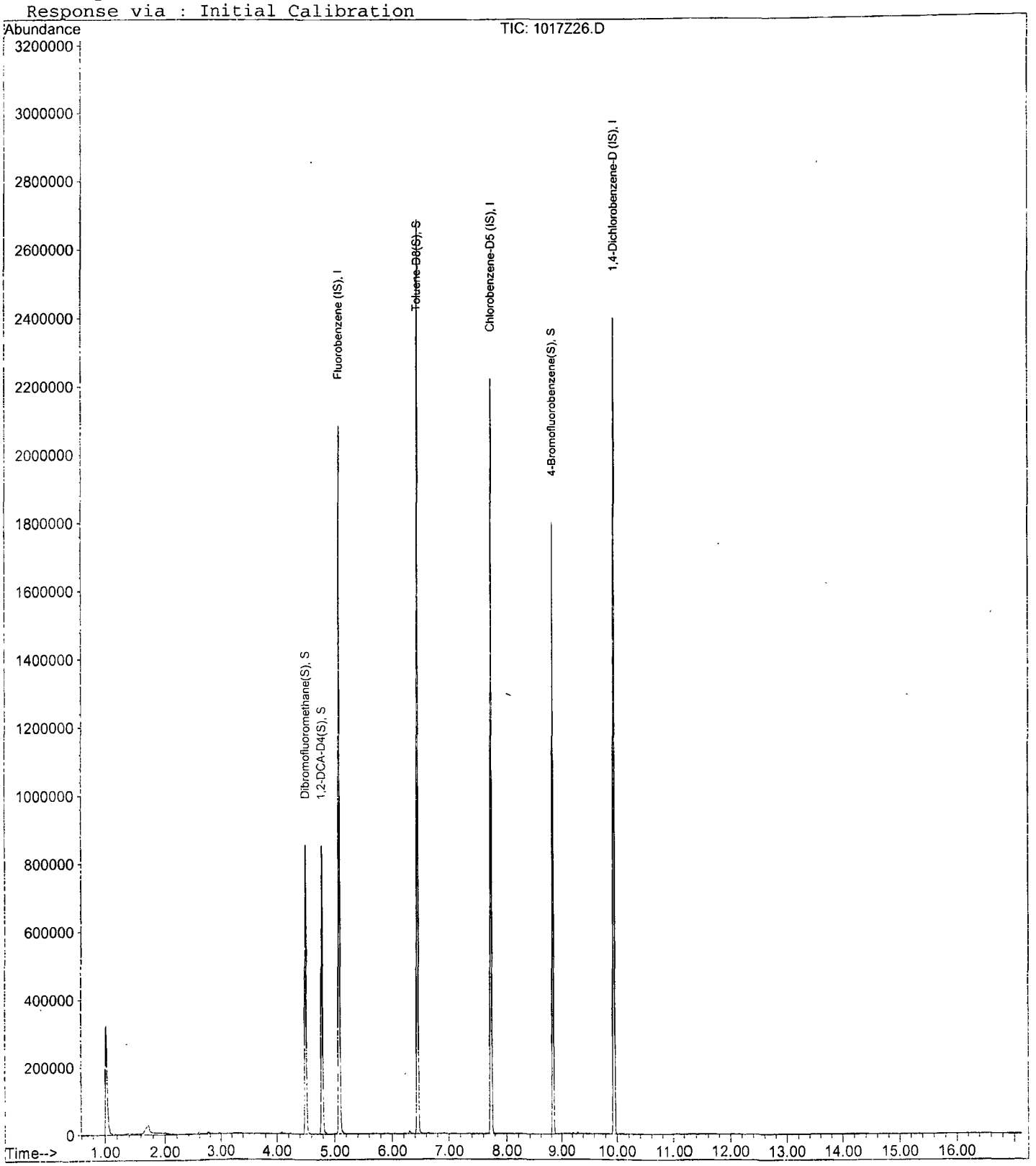
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z26.D Vial: 25
Acq On : 17 Oct 20 19:45 Operator: LP,DG,CH
Sample : BA20189W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:51 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z27.D Vial: 26
Acq On : 17 Oct 20 20:08 Operator: LP,DG,CH
Sample : BA20190W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:52 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1536221	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1069653	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	579565	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	420432	28.61	ppb	0.00
Spiked Amount 25.000			Recovery =	114.424%		
48) 1,2-DCA-D4(S)	4.78	65	452853	29.58	ppb	0.00
Spiked Amount 25.000			Recovery =	118.300%		
69) Toluene-D8(S)	6.45	98	1434255	27.04	ppb	0.00
Spiked Amount 25.000			Recovery =	108.152%		
77) 4-Bromofluorobenzene(S)	8.83	95	496056	24.93	ppb	0.00
Spiked Amount 25.000			Recovery =	99.720%		

Target Compounds Qvalue

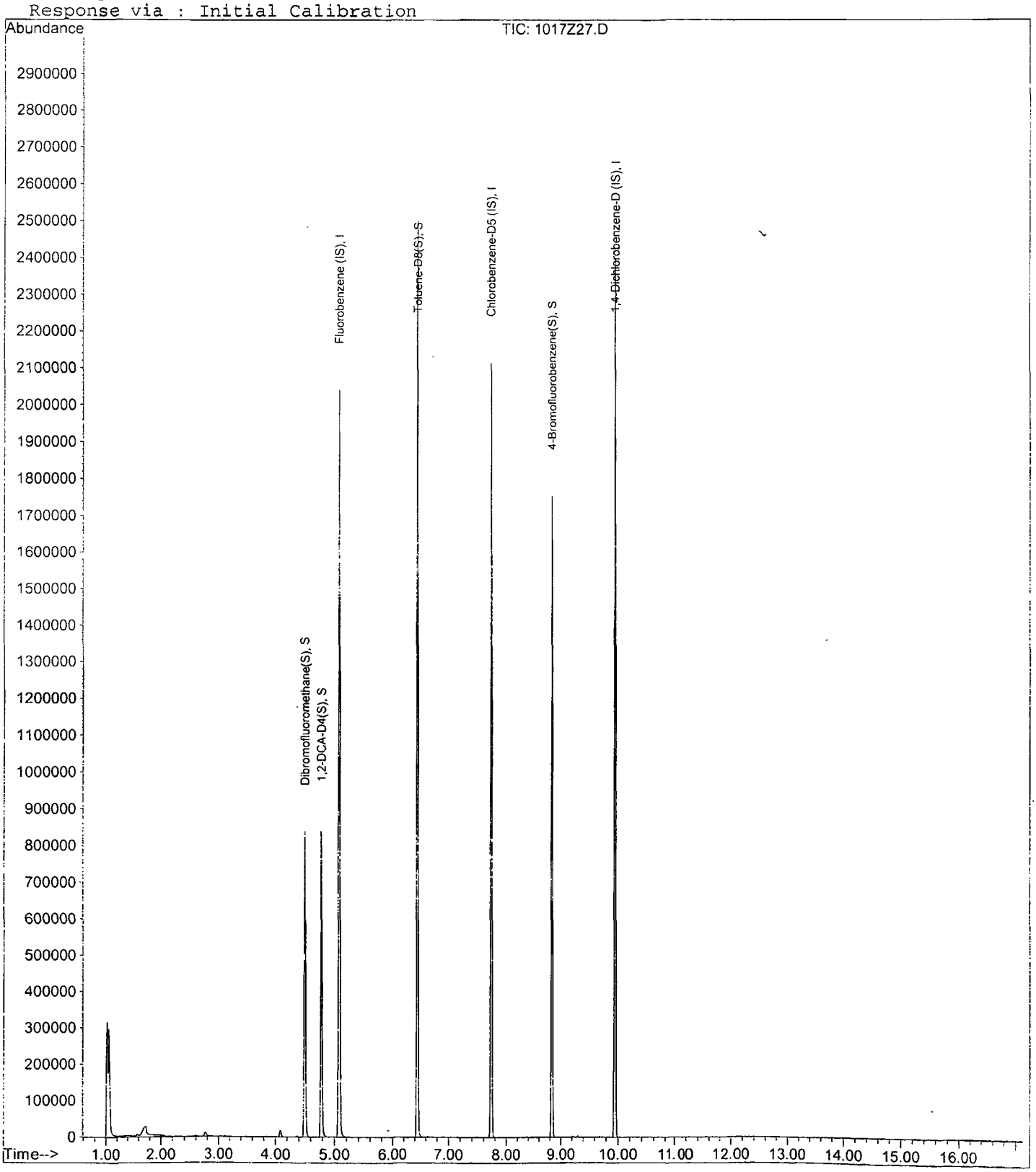
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z27.D Vial: 26
Acq On : 17 Oct 20 20:08 Operator: LP,DG,CH
Sample : BA20190W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 6:52 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z19.D Vial: 18
Acq On : 17 Oct 20 17:03 Operator: LP,DG,CH
Sample : 201017A BLK Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:07 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1926340	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1329700	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	724017	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	508394	27.59	ppb	0.00
Spiked Amount 25.000			Recovery =	110.344%		
48) 1,2-DCA-D4(S)	4.78	65	533985	27.81	ppb	0.00
Spiked Amount 25.000			Recovery =	111.244%		
69) Toluene-D8(S)	6.44	98	1802692	27.34	ppb	0.00
Spiked Amount 25.000			Recovery =	109.352%		
77) 4-Bromofluorobenzene(S)	8.83	95	627674	25.35	ppb	0.00
Spiked Amount 25.000			Recovery =	101.412%		

Target Compounds Qvalue

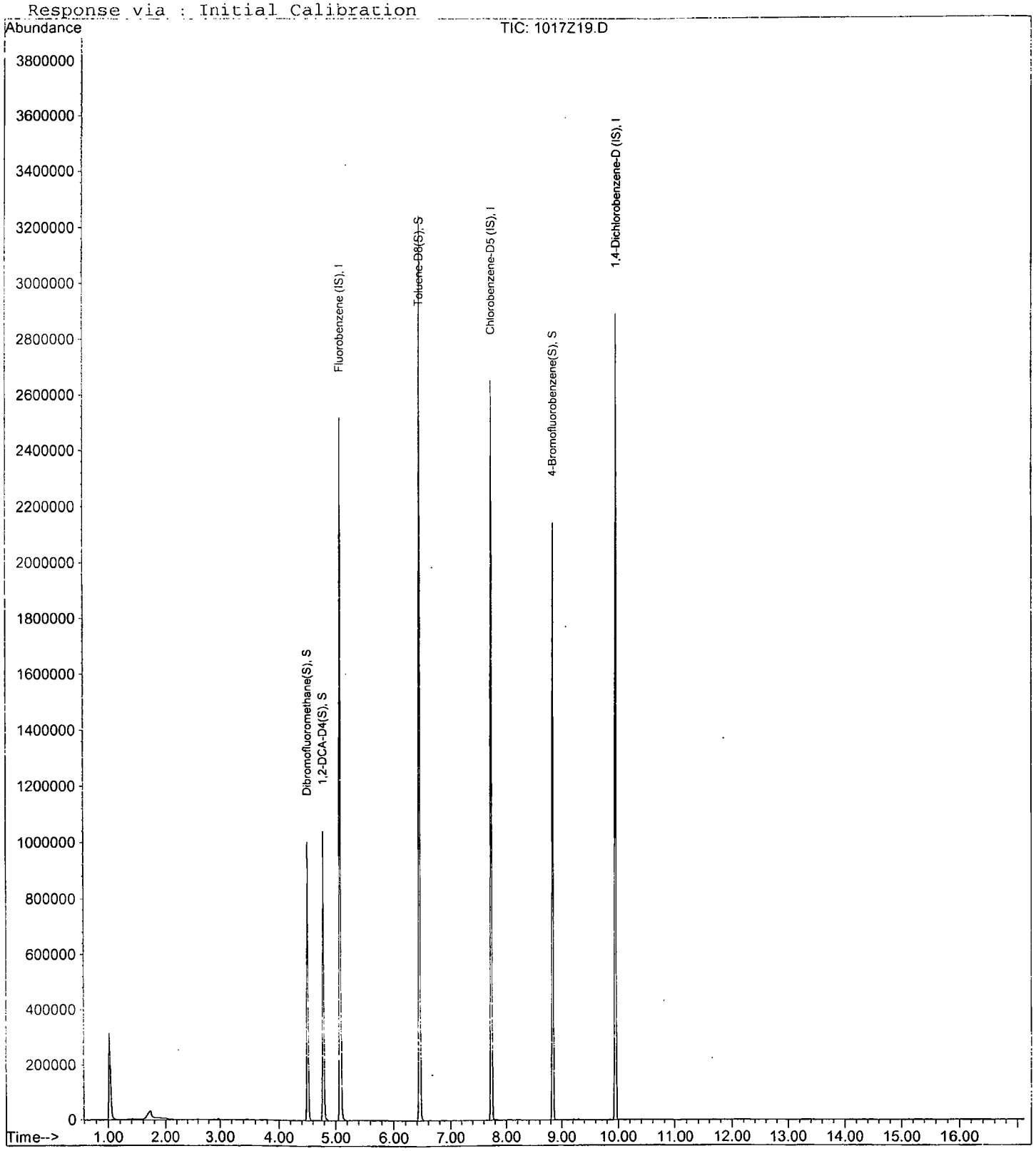
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z19.D Vial: 18
Acq On : 17 Oct 20 17:03 Operator: LP,DG,CH
Sample : 201017A BLK Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:07 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z14.D Vial: 13
Acq On : 17 Oct 20 15:07 Operator: LP,DG,CH
Sample : 201017A LCS 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:52 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1953274	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1352561	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	749042	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	509398	27.26	ppb		0.00
Spiked Amount 25.000			Recovery = 109.036%				
48) 1,2-DCA-D4(S)	4.78	65	524227	26.93	ppb		0.00
Spiked Amount 25.000			Recovery = 107.708%				
69) Toluene-D8(S)	6.44	98	1866406	27.83	ppb		0.00
Spiked Amount 25.000			Recovery = 111.304%				
77) 4-Bromofluorobenzene(S)	8.83	95	651433	25.84	ppb		0.00
Spiked Amount 25.000			Recovery = 103.364%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	23455	9.93	ppb		96
4) Freon 114	1.29	85	21672	9.59	ppb		100
5) Chloromethane	1.37	50	98522	9.12	ppb		97
6) Vinyl chloride	1.43	62	79013	9.27	ppb		100
9) Bromomethane	1.70	94	27263	9.29	ppb		98
10) Chloroethane	1.78	64	29432	9.60	ppb		95
11) Dichlorofluoromethane	1.99	67	145606	8.97	ppb		96
12) Trichlorofluoromethane	2.03	101	119868	9.91	ppb		98
16) Acrolein	2.43	55	116075	126.13	ppb		95
17) Acetone	2.59	43	167214	49.64	ppb		99
18) Freon-113	2.54	101	67065	8.93	ppb		96
19) 1,1-DCE	2.52	61	114994	9.03	ppb		98
21) Acetonitrile	2.83	40	50862	127.75	ppb		93
22) t-Butanol	3.13	59	48400	134.32	ppb		100
23) Methyl Acetate	2.90	43	79086	8.88	ppb		98
24) Iodomethane	2.65	142	61694	8.57	ppb		99
25) Acrylonitrile	3.19	52	35744	9.95	ppb		95
26) Methylene chloride	2.97	84	101271	9.00	ppb		95
27) Carbon disulfide	2.70	76	99744	8.59	ppb		97
28) Methyl t-butyl ether (MtBE	3.25	73	217567	10.58	ppb		99
29) Trans-1,2-DCE	3.22	61	114180	9.10	ppb		97
31) Diisopropyl Ether	3.69	45	282405	10.20	ppb		99
33) 1,1-DCA	3.59	63	152593	9.43	ppb		99
34) Vinyl Acetate	3.65	43	132911	9.57	ppb		96
35) Ethyl tert Butyl Ether	4.01	59	228137	9.43	ppb		97
36) MEK (2-Butanone)	4.12	43	235592	54.97	ppb		99
37) Cis-1,2-DCE	4.09	61	138654	9.58	ppb		99
38) 2,2-Dichloropropane	4.09	77	99031	9.31	ppb		94
41) Chloroform	4.37	83	154798	9.88	ppb		97
42) Bromochloromethane	4.29	49	80097	9.80	ppb		94
44) 1,1,1-TCA	4.52	97	116083	9.34	ppb		98
45) Cyclohexane	4.58	56	111556	8.42	ppb		100
46) 1,1-Dichloropropene	4.67	75	104675	9.21	ppb		99
47) 2,2,4-Trimethylpentane	4.93	57	229275	8.42	ppb		99
49) Carbon Tetrachloride	4.67	117	91962	9.07	ppb		100
50) Tert Amyl Methyl Ether	4.97	73	202562	9.54	ppb		99
51) Methylcyclopentane	4.01	56	16679	10.72	ppb	#	96
52) 1,2-DCA	4.84	62	114757	9.76	ppb		99
53) Benzene	4.84	78	364114	9.52	ppb		98

(#) = qualifier out of range (m) = manual integration

Data File : M:\ZEUS\DATA\201016\1017Z14.D Vial: 13
Acq On : 17 Oct 20 15:07 Operator: LP,DG,CH
Sample : 201017A LCS 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:52 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.40	130	102022	9.59	ppb		93
55)	2-Pentanone	5.55	43	877584	145.14	ppb		100
56)	1,2-Dichloropropane	5.58	63	91190	9.77	ppb		98
57)	Bromodichloromethane	5.81	83	97816	9.91	ppb		99
58)	Methyl Cyclohexane	5.57	83	117616	8.38	ppb		92
59)	Dibromomethane	5.67	174	62028	10.01	ppb		91
60)	MIBK (methyl isobutyl ket	6.35	43	415877	52.68	ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	14997	10.30	ppb		94
63)	Cis-1,3-Dichloropropene	6.21	75	121312	9.32	ppb		95
64)	Toluene	6.51	91	368467	9.51	ppb		98
65)	Trans-1,3-Dichloropropene	6.69	75	101342	9.36	ppb		98
66)	1,1,2-TCA	6.85	97	79067	10.28	ppb		100
67)	2-Hexanone	7.09	43	282109	52.79	ppb		99
70)	1,2-EDB	7.30	107	79127	10.37	ppb	#	94
71)	Tetrachloroethene	6.99	166	92944	9.34	ppb		97
72)	1-Chlorohexane	7.75	91	109519	8.70	ppb		94
73)	1,1,1,2-Tetrachloroethane	7.84	131	77646	10.69	ppb		99
74)	m&p-Xylene	7.98	91	598470	20.22	ppb		99
75)	o-Xylene	8.35	91	302127	10.28	ppb		99
76)	Styrene	8.36	104	242949	9.53	ppb		97
78)	1,3-Dichloropropane	7.00	76	133564	10.26	ppb		99
79)	Dibromochloromethane	7.20	129	72121	9.43	ppb		97
80)	Chlorobenzene	7.76	112	255429	9.89	ppb		96
81)	Ethylbenzene	7.87	91	394087	9.72	ppb		98
82)	Bromoform	8.51	173	44127	9.01	ppb		95
84)	Isopropylbenzene	8.70	105	375521	9.15	ppb		98
85)	1,1,2,2-Tetrachloroethane	8.97	83	98941	10.07	ppb		96
86)	1,2,3-Trichloropropane	9.01	110	32757	10.40	ppb		97
87)	t-1,4-Dichloro-2-Butene	9.02	53	22778	9.56	ppb		98
88)	Bromobenzene	8.97	77	181869	9.79	ppb		98
89)	n-Propylbenzene	9.09	91	473338	9.89	ppb		100
90)	4-Ethyltoluene	9.21	105	411181	10.20	ppb		100
91)	2-Chlorotoluene	9.16	91	322697	9.84	ppb		98
92)	1,3,5-Trimethylbenzene	9.26	105	339818	10.36	ppb		99
93)	4-Chlorotoluene	9.27	91	336223	10.23	ppb		100
94)	Tert-Butylbenzene	9.58	119	277669	9.06	ppb		99
95)	1,2,4-Trimethylbenzene	9.63	105	339628	9.41	ppb		97
96)	Sec-Butylbenzene	9.79	105	433496	9.08	ppb		98
97)	p-Isopropyltoluene	9.94	119	373966	9.97	ppb		97
98)	Benzyl Chloride	10.10	91	126920	9.02	ppb		99
99)	1,3-DCB	9.88	146	208375	9.79	ppb		97
100)	1,4-DCB	9.97	146	218382	9.74	ppb		98
101)	n-Butylbenzene	10.34	91	347344	9.24	ppb		99
102)	1,2-DCB	10.33	146	196424	10.04	ppb		97
103)	Hexachloroethane	10.59	201	42455	8.97	ppb		98
104)	1,2-Dibromo-3-chloropropan	11.08	157	18496	8.81	ppb		96
105)	1,2,4-Trichlorobenzene	11.92	180	124129	9.35	ppb		95
106)	Hexachlorobutadiene	12.11	225	58934	9.89	ppb		97
107)	Naphthalene	12.15	128	295428	9.20	ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	119983	9.72	ppb		94

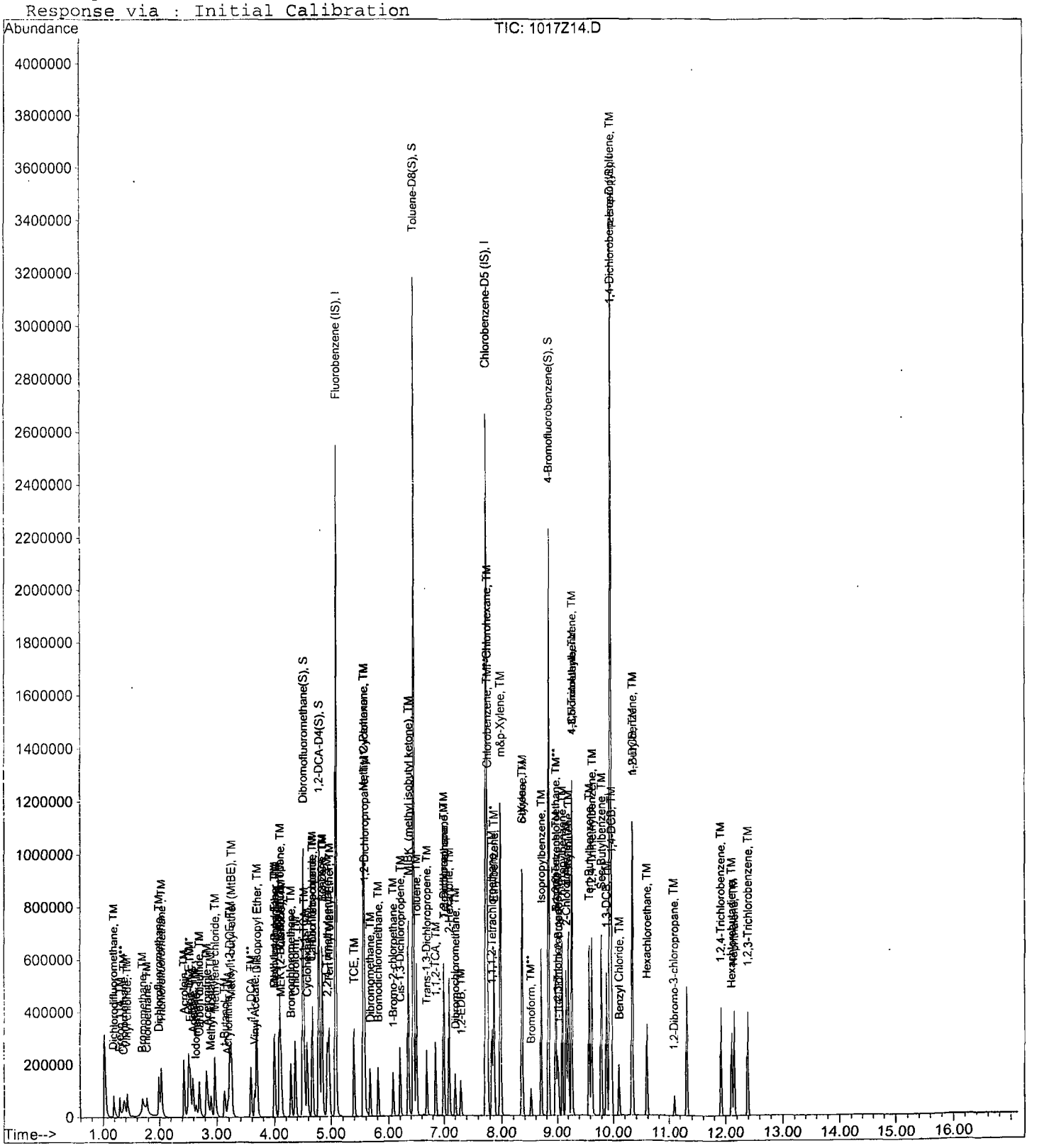
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z14.D Vial: 13
Acq On : 17 Oct 20 15:07 Operator: LP,DG,CH
Sample : 201017A LCS 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:52 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z15.D Vial: 14
Acq On : 17 Oct 20 15:30 Operator: LP,DG,CH
Sample : 201017A LCSD 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:52 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1986341	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1385750	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	764464	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	519731	27.35	ppb		0.00
Spiked Amount 25.000			Recovery = 109.396%				
48) 1,2-DCA-D4(S)	4.78	65	537323	27.14	ppb		0.00
Spiked Amount 25.000			Recovery = 108.560%				
69) Toluene-D8(S)	6.44	98	1880510	27.36	ppb		0.00
Spiked Amount 25.000			Recovery = 109.456%				
77) 4-Bromofluorobenzene(S)	8.83	95	667958	25.86	ppb		0.00
Spiked Amount 25.000			Recovery = 103.444%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	19897	8.27	ppb		96
4) Freon 114	1.29	85	30528	12.64	ppb		88
5) Chloromethane	1.37	50	100461	9.14	ppb		95
6) Vinyl chloride	1.43	62	78527	9.06	ppb		99
9) Bromomethane	1.70	94	28643	9.60	ppb		96
10) Chloroethane	1.78	64	31275	10.05	ppb		98
11) Dichlorofluoromethane	1.99	67	164978	10.00	ppb		98
12) Trichlorofluoromethane	2.03	101	120486	9.79	ppb		97
16) Acrolein	2.43	55	116903	124.91	ppb		98
17) Acetone	2.59	43	163653	47.77	ppb		99
18) Freon-113	2.54	101	82368	10.60	ppb		97
19) 1,1-DCE	2.52	61	132450	10.23	ppb		98
21) Acetonitrile	2.83	40	49996	123.49	ppb		93
22) t-Butanol	3.12	59	48328	131.89	ppb		100
23) Methyl Acetate	2.90	43	80785	8.92	ppb	#	90
24) Iodomethane	2.64	142	75111	9.97	ppb		94
25) Acrylonitrile	3.18	52	36175	9.90	ppb		94
26) Methylene chloride	2.97	84	111228	9.83	ppb		94
27) Carbon disulfide	2.70	76	120624	10.11	ppb		99
28) Methyl t-butyl ether (MtBE	3.25	73	226262	10.82	ppb		99
29) Trans-1,2-DCE	3.22	61	128598	10.08	ppb		97
31) Diisopropyl Ether	3.69	45	302791	10.76	ppb		99
33) 1,1-DCA	3.59	63	168277	10.23	ppb		97
34) Vinyl Acetate	3.65	43	147034	10.41	ppb		94
35) Ethyl tert Butyl Ether	4.00	59	242383	9.80	ppb		99
36) MEK (2-Butanone)	4.12	43	229928	52.75	ppb		99
37) Cis-1,2-DCE	4.09	61	152857	10.38	ppb		99
38) 2,2-Dichloropropane	4.09	77	113180	10.46	ppb		95
41) Chloroform	4.37	83	170227	10.69	ppb		98
42) Bromochloromethane	4.29	49	85564	10.30	ppb		92
44) 1,1,1-TCA	4.52	97	134791	10.66	ppb		96
45) Cyclohexane	4.58	56	140903	10.13	ppb		97
46) 1,1-Dichloropropene	4.67	75	122349	10.58	ppb		96
47) 2,2,4-Trimethylpentane	4.93	57	284501	9.93	ppb		99
49) Carbon Tetrachloride	4.67	117	108862	10.55	ppb		97
50) Tert Amyl Methyl Ether	4.97	73	212307	9.79	ppb		98
51) Methylcyclopentane	4.00	56	16906	10.69	ppb	#	96
52) 1,2-DCA	4.84	62	120778	10.10	ppb		99
53) Benzene	4.84	78	400954	10.31	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z15.D Vial: 14
Acq On : 17 Oct 20 15:30 Operator: LP,DG,CH
Sample : 201017A LCSD 10ug/L Inst : : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:52 2020 Quant Results File: Z1016W.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
54)	TCE	5.40	130	112727	10.41 ppb		96
55)	2-Pentanone	5.55	43	849772	138.20 ppb		97
56)	1,2-Dichloropropane	5.58	63	98326	10.35 ppb	#	97
57)	Bromodichloromethane	5.81	83	105772	10.54 ppb		98
58)	Methyl Cyclohexane	5.57	83	147919	10.37 ppb		95
59)	Dibromomethane	5.67	174	64477	10.23 ppb		94
60)	MIBK (methyl isobutyl ket	6.35	43	407317	51.22 ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	15380	10.39 ppb		96
63)	Cis-1,3-Dichloropropene	6.21	75	131357	9.83 ppb		97
64)	Toluene	6.51	91	412952	10.48 ppb		98
65)	Trans-1,3-Dichloropropene	6.69	75	106609	9.63 ppb		95
66)	1,1,2-TCA	6.85	97	83181	10.64 ppb		97
67)	2-Hexanone	7.09	43	275676	51.24 ppb		97
70)	1,2-EDB	7.30	107	82197	10.51 ppb		94
71)	Tetrachloroethene	6.99	166	103044	10.11 ppb		97
72)	1-Chlorohexane	7.75	91	127667	9.90 ppb		97
73)	1,1,1,2-Tetrachloroethane	7.84	131	86235	11.58 ppb		92
74)	m&p-Xylene	7.98	91	676297	22.31 ppb		100
75)	o-Xylene	8.35	91	337852	11.22 ppb		100
76)	Styrene	8.36	104	268198	10.20 ppb		100
78)	1,3-Dichloropropane	7.00	76	139624	10.47 ppb		98
79)	Dibromochloromethane	7.20	129	74999	9.55 ppb		99
80)	Chlorobenzene	7.76	112	276432	10.45 ppb		99
81)	Ethylbenzene	7.87	91	439196	10.57 ppb		99
82)	Bromoform	8.51	173	46377	9.21 ppb		97
84)	Isopropylbenzene	8.70	105	428848	10.09 ppb		99
85)	1,1,2,2-Tetrachloroethane	8.97	83	102596	10.23 ppb		95
86)	1,2,3-Trichloropropane	9.01	110	33205	10.33 ppb		95
87)	t-1,4-Dichloro-2-Butene	9.02	53	23173	9.54 ppb		96
88)	Bromobenzene	8.98	77	193644	10.21 ppb		94
89)	n-Propylbenzene	9.09	91	531780	10.88 ppb		99
90)	4-Ethyltoluene	9.21	105	459011	11.16 ppb		99
91)	2-Chlorotoluene	9.16	91	361403	10.80 ppb		99
92)	1,3,5-Trimethylbenzene	9.26	105	383245	11.45 ppb		98
93)	4-Chlorotoluene	9.27	91	369924	11.02 ppb		100
94)	Tert-Butylbenzene	9.58	119	319109	10.05 ppb		96
95)	1,2,4-Trimethylbenzene	9.63	105	382463	10.27 ppb		100
96)	Sec-Butylbenzene	9.79	105	507008	10.25 ppb		99
97)	p-Isopropyltoluene	9.94	119	420979	10.99 ppb		100
98)	Benzyl Chloride	10.10	91	126954	8.89 ppb		98
99)	1,3-DCB	9.88	146	227392	10.47 ppb		99
100)	1,4-DCB	9.97	146	234615	10.25 ppb		98
101)	n-Butylbenzene	10.33	91	390564	10.10 ppb		100
102)	1,2-DCB	10.33	146	213958	10.71 ppb		98
103)	Hexachloroethane	10.59	201	43515	9.00 ppb		91
104)	1,2-Dibromo-3-chloropropan	11.08	157	19128	8.90 ppb		87
105)	1,2,4-Trichlorobenzene	11.92	180	131841	9.68 ppb		99
106)	Hexachlorobutadiene	12.11	225	67180	11.04 ppb		97
107)	Naphthalene	12.15	128	305390	9.30 ppb		97
108)	1,2,3-Trichlorobenzene	12.39	180	126386	10.00 ppb		98

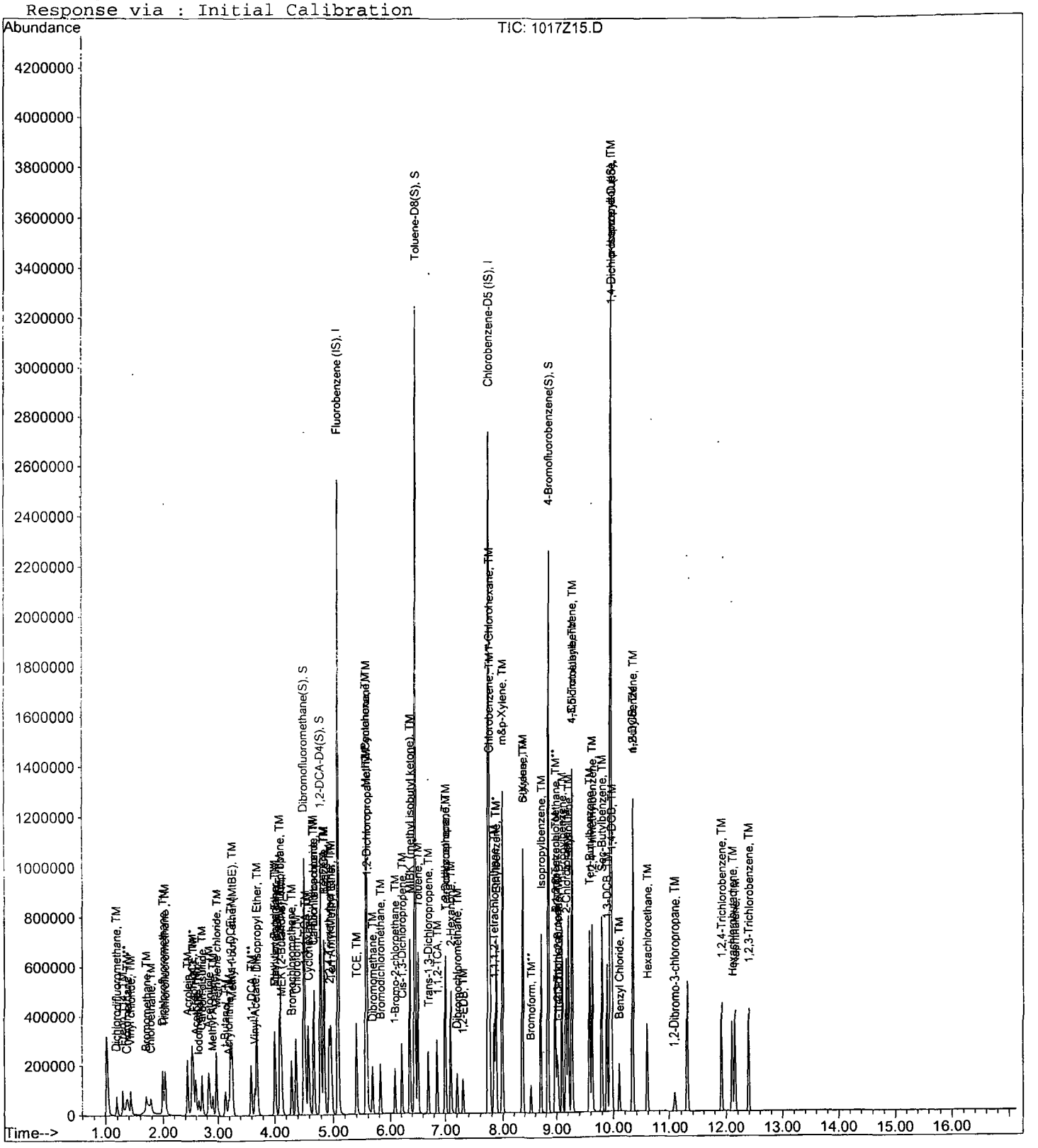
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z15.D Vial: 14
Acq On : 17 Oct 20 15:30 Operator: LP,DG,CH
Sample : 201017A LCSD 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 18 5:52 2020 Quant Results File: Z1016W.RES

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration

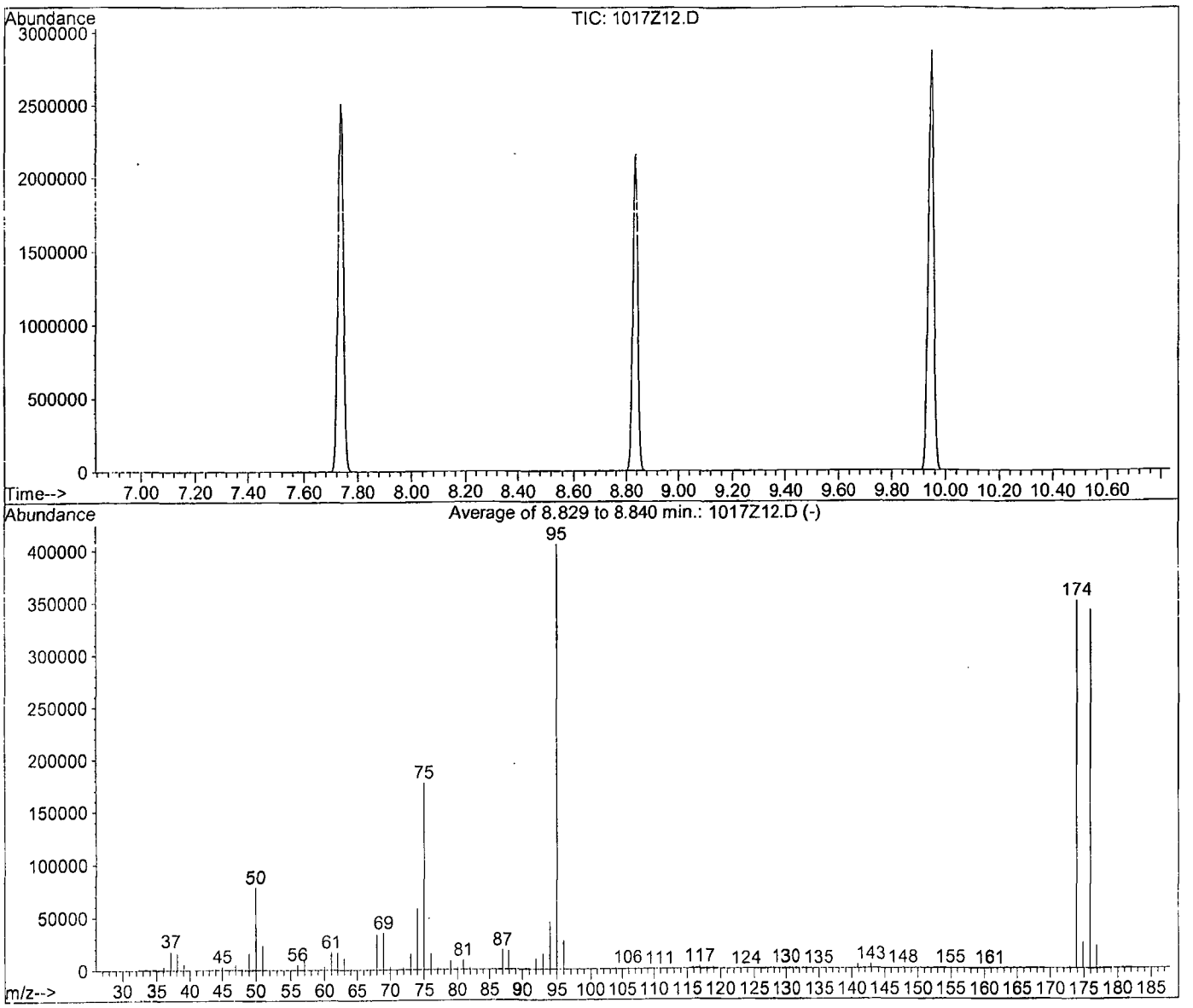


BFB

Data File : M:\ZEUS\DATA\201016\1017Z12.D
Acq On : 17 Oct 20 14:21
Sample : 25ug/L BFB STD 9/14/20
Misc :

Vial: 11
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Method : M:\ZEUS\DATA\201016\Z1016W.M (RTE Integrator)
Title : METHOD 8260B



AutoFind: Scans 1572, 1573, 1574; Background Corrected with Scan 1563

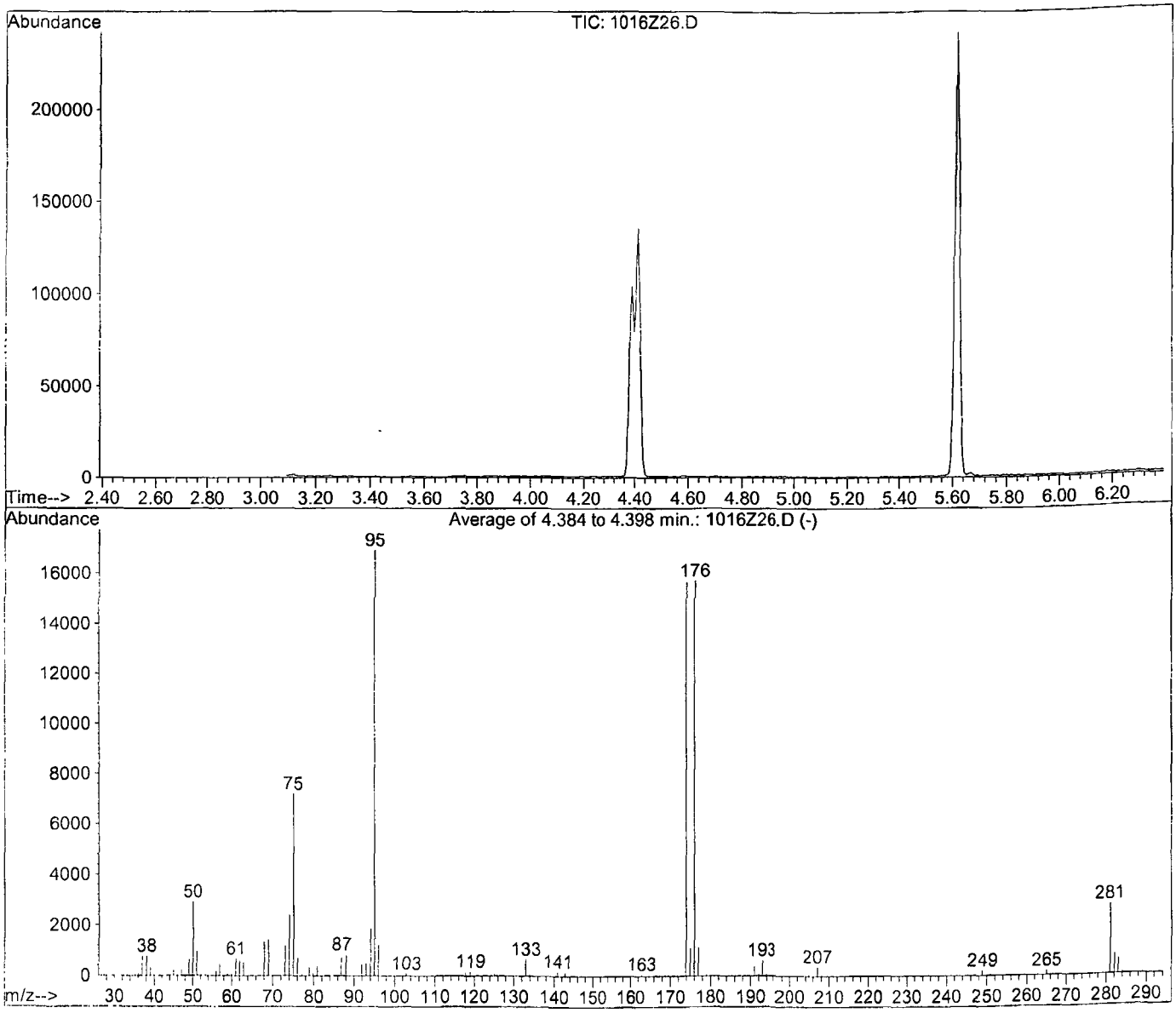
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	78232	PASS
75	95	30	60	43.7	177643	PASS
95	95	100	100	100.0	406123	PASS
96	95	5	9	6.8	27683	PASS
173	174	0.00	2	0.6	1974	PASS
174	95	50	200	86.6	351531	PASS
175	174	5	9	7.0	24733	PASS
176	174	95	101	97.6	343083	PASS
177	176	5	9	6.4	21925	PASS

1017Z12.D Z1016W.M Tue Nov 10 15:12:56 2020

Data File : M:\ZEUS\DATA\201016\1016Z26.D
Acq On : 16 Oct 20 15:13
Sample : 25ug/L BFB STD 9/14/20
Misc :

Vial: 1
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Method : M:\ZEUS\DATA\201011\Z1011SUR.M (RTE Integrator)
Title : METHOD 8260B



AutoFind: Scans 181, 182, 183; Background Corrected with Scan 175

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	2916	PASS
75	95	30	60	42.6	7208	PASS
95	95	100	100	100.0	16918	PASS
96	95	5	9	7.3	1240	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	92.6	15664	PASS
175	174	5	9	7.0	1093	PASS
176	174	95	101	100.4	15720	PASS
177	176	5	9	7.2	1135	PASS

Primary and Secondary Working Standards

Primary Standards

VOA STD 7

Prepared: 10/10/20 A
Expires: 12/09/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL14506-50818	10/10/21	10/31/24	100uL	4mL	Methanol	50
Hexachloroethane	Absolute	70199	1,000	091818-50783	10/10/21	09/18/23	200uL			50
Benzyl Chloride	Accusta	M-8010-01	1,000	042420-50799	10/10/21	04/24/21	200uL			50

VOA STD 8

Prepared: 10/10/20 B
Expires: 11/04/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL15724-50831	10/10/21	09/30/22	100uL	4mL	Methanol	50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL14379-50557	10/10/21	10/31/24	100uL			50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL15886-50944	10/10/21	11/04/20	100uL			50

VOA STD TBA

Prepared: 10/10/20 C
Expires: 11/04/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL15725-50806	10/10/21	09/30/23	500uL	4mL	Methanol	250
Acrolein	Phenova	ALO-130549	10,000	CL15890-50946	10/10/21	11/04/20	100uL			250

VOA STD 1

Prepared: 10/10/20 D
Expires: 12/09/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	82408	2,000	121119-50900	10/10/21	12/11/22	50	2mL	Methanol	50

VOA STD 2

Prepared: 10/10/20 E
Expires: 12/09/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std.	Phenova	ALO-109211	2,000	CL12730-50633	10/10/21	08/31/28	100	4mL	Methanol	50

VOA STD 9

Prepared: 10/10/20 F
Expires: 12/09/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 10/10/20	10/10/21	N/A	200uL	2mL	Methanol	5
VOA STD. 8			50	Prepared 10/10/20	10/10/21	N/A	200uL			5

VOA STD. 10

Prepared: 10/10/20 G
Expires: 12/09/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 10/10/20	10/10/21	N/A	200uL	2mL	Methanol	5

VOA STD. 12

Prepared: 10/10/20 H
Expires: 12/09/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 10/10/20	10/10/21	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards

VOA STD 3

Prepared: 10/10/20 I
Expires: 12/09/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL13994-50637	10/10/21	08/31/29	50uL	2mL	Methanol	50

VOA STD. Gases

Prepared: 10/10/20 J
Expires: 12/09/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL14505-50827	10/10/21	10/31/24	50uL	2mL	Methanol	50

VOA STD 6

Prepared: 10/10/20 K
Expires: 11/04/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL14381-50563	10/10/21	10/31/24	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL15886-50945	10/10/21	11/04/20	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	219061767-50624	10/10/21	06/28/29	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219111303-50802	10/10/21	12/25/21	500uL			50

VOA STD. TBA

Prepared: 10/10/20 L
Expires: 11/04/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12929-50568	10/10/21	11/30/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL15890-50947	10/10/21	11/04/20	50uL			250

VOA STD 0

Prepared: 10/10/20 M
Expires: 12/09/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL14058-50579	10/10/21	08/31/21	50uL	2mL	Methanol	50

VOA STD. 2-CEVE

Prepared: 10/10/20 N
Expires: 12/09/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp Date (1 yr)	Exp Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE (SS)	Absolute	82408	2,000	011320-50895	10/10/21	01/13/23	50uL	2mL	Methanol	50

Zeus 8260 Standard Prep

Zeus 8260 Water Calibration Curve

Prepared By (Initials): CH

0.3ug/L

Prepared: 10/16/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.3ug/L	5	Prepared 10/10/20	12/09/20	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 1	Absolute		50	Prepared 10/10/20	12/09/20	N/A	5uL			5
VOA STD. 2	Phenova		100	Prepared 10/10/20	12/09/20	N/A	2.5uL			5
VOA STD. TBA	Various		250	Prepared 10/10/20	11/04/20	N/A	2uL			10

0.5ug/L

Prepared: 10/16/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.5ug/L	5	Prepared 10/10/20	12/09/20	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 1	Absolute		50	Prepared 10/10/20	12/09/20	N/A	10uL			10
VOA STD. 2	Phenova		100	Prepared 10/10/20	12/09/20	N/A	5uL			10
VOA STD. TBA	Various		250	Prepared 10/10/20	11/04/20	N/A	5uL			25

1.0ug/L

Prepared: 10/16/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	1.0ug/L	5	Prepared 10/10/20	12/09/20	N/A	10uL	50mL	P&T Water	1
VOA STD. 1	Absolute		50	Prepared 10/10/20	12/09/20	N/A	20uL			20
VOA STD 2	Phenova		100	Prepared 10/10/20	12/09/20	N/A	10uL			20
VOA STD. TBA	Various		250	Prepared 10/10/20	11/04/20	N/A	10uL			50

2.0ug/L

Prepared: 10/16/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	2.0ug/L	5	Prepared 10/10/20	12/09/20	N/A	20uL	50mL	P&T Water	2
VOA STD 1	Absolute		50	Prepared 10/10/20	12/09/20	N/A	30uL			30
VOA STD 2	Phenova		100	Prepared 10/10/20	12/09/20	N/A	15uL			30
VOA STD. TBA	Various		250	Prepared 10/10/20	11/04/20	N/A	15uL			75

5ug/L

Prepared: 10/16/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 10/10/20	12/09/20	N/A	5uL	50mL	P&T Water	5
VOA STD 8	Phenova		50	Prepared 10/10/20	11/04/20	N/A	5uL			5
VOA STD. 1	Absolute		50	Prepared 10/10/20	12/09/20	N/A	40uL			40
VOA STD 2	Phenova		100	Prepared 10/10/20	12/09/20	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 10/10/20	11/04/20	N/A	20uL			100

10ug/L

Prepared: 10/16/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 10/10/20	12/09/20	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 10/10/20	11/04/20	N/A	10uL			10
VOA STD. 1	Absolute		50	Prepared 10/10/20	12/09/20	N/A	50uL			50
VOA STD. 2	Phenova		100	Prepared 10/10/20	12/09/20	N/A	25uL			50
VOA STD. TBA	Various		250	Prepared 10/10/20	11/04/20	N/A	25uL			125

20ug/L

Prepared: 10/16/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 10/10/20	12/09/20	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 10/10/20	11/04/20	N/A	20uL			20
VOA STD. 1	Absolute		50	Prepared 10/10/20	12/09/20	N/A	60uL			60
VOA STD. 2	Phenova		100	Prepared 10/10/20	12/09/20	N/A	30uL			60
VOA STD. TBA	Various		250	Prepared 10/10/20	11/04/20	N/A	30uL			150

40ug/L

Prepared: 10/16/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 10/10/20	12/09/20	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 10/10/20	11/04/20	N/A	40uL			40
VOA STD. 1	Absolute		50	Prepared 10/10/20	12/09/20	N/A	80uL			80
VOA STD. 2	Phenova		100	Prepared 10/10/20	12/09/20	N/A	40uL			80
VOA STD. TBA	Various		250	Prepared 10/10/20	11/04/20	N/A	35uL			175

100ug/L

Prepared: 10/16/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 10/10/20	12/09/20	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 10/10/20	11/04/20	N/A	100uL			100
VOA STD. 1	Absolute		50	Prepared 10/10/20	12/09/20	N/A	100uL			100
VOA STD 2	Phenova		100	Prepared 10/10/20	12/09/20	N/A	50uL			100
VOA STD. TBA	Various		250	Prepared 10/10/20	11/04/20	N/A	40uL			200

Zeus 8260 Water Second Source (SS)

Prepared: 10/16/20

Expires: 11/04/20

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 3	Phenova	8260 Water SS	100	Prepared 10/10/20	12/09/20	N/A	25uL	50mL	P&T Water	50
VOA STD. GASES	Phenova	8260 Water SS	50	Prepared 10/10/20	12/09/20	N/A	10uL			10
VOA STD. 0	Phenova	8260 Water SS	50	Prepared 10/10/20	12/09/20	N/A	10uL			10
VOA STD. 2-CEVE	Absolute	8260 Water SS	50	Prepared 10/10/20	10/10/20	N/A	50uL			50
VOA STD 6	Various	8260 Water SS	50	Prepared 10/10/20	11/04/20	N/A	10uL			10
Voa STD. TBA	Various	8260 Water SS	250	Prepared 10/10/20	11/04/20	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)

Prepared: 10/16/20

Expires: 10/17/20

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 10/10/20	12/09/20	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 10/10/20	11/04/20	N/A	10uL			10
VOA STD 1	Absolute	CCV/ LCS	50	Prepared 10/10/20	12/09/20	N/A	50uL			50
VOA STD. 2	Phenova	CCV/ LCS	100	Prepared 10/10/20	12/09/20	N/A	25uL			50
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 10/10/20	11/04/20	N/A	25uL			125

Injection Log

Directory: M:\ZEUS\DATA\201016\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1016Z26.D	1	25ug/L BFB STD 9/14/20		16 Oct 20 15:13
2	4	1016Z30.D	1	0.3ug/L VOC STD 10/16/20		16 Oct 20 16:48
3	5	1016Z31.D	1	0.5ug/L VOC STD 10/16/20		16 Oct 20 17:11
4	6	1016Z32.D	1	1ug/L VOC STD 10/16/20		16 Oct 20 17:34
5	7	1016Z33.D	1	2ug/L VOC STD 10/16/20		16 Oct 20 17:57
6	8	1016Z34.D	1	5ug/L VOC STD 10/16/20		16 Oct 20 18:21
7	9	1016Z35.D	1	10ug/L VOC STD 10/16/20		16 Oct 20 18:44
8	10	1016Z36.D	1	20ug/L VOC STD 10/16/20		16 Oct 20 19:07
9	11	1016Z37.D	1	40ug/L VOC STD 10/16/20		16 Oct 20 19:30
10	12	1016Z38.D	1	100ug/L VOC STD 10/16/20		16 Oct 20 19:53
11	14	1016Z40.D	1	(SS) 10ug/L VOC STD 10/16/20		16 Oct 20 20:40
12	11	1017Z12.D	1	25ug/L BFB STD 9/14/20		17 Oct 20 14:21
13	12	1017Z13.D	1	201017A CCV 10ug/L		17 Oct 20 14:44
14	13	1017Z14.D	1	201017A LCS 10ug/L		17 Oct 20 15:07
15	14	1017Z15.D	1	201017A LCSD 10ug/L		17 Oct 20 15:30
16	18	1017Z19.D	1	201017A BLK		17 Oct 20 17:03
17	19	1017Z20.D	1	BA20183W01		17 Oct 20 17:26
18	20	1017Z21.D	1	BA20184W01		17 Oct 20 17:49
19	21	1017Z22.D	1	BA20185W01		17 Oct 20 18:13
20	22	1017Z23.D	1	BA20186W01		17 Oct 20 18:36
21	23	1017Z24.D	1	BA20187W01		17 Oct 20 18:59
22	24	1017Z25.D	1	BA20188W01		17 Oct 20 19:22
23	25	1017Z26.D	1	BA20189W01		17 Oct 20 19:45
24	26	1017Z27.D	1	BA20190W01		17 Oct 20 20:08
25	43	1017Z44.D	1	Ending CCV 10ug/L 10/17/20		18 Oct 20 02:43

ORGANICS

Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/16/20
Matrix: Water Instrument: ZEUS Initials: CH

			1016Z30 D	1016Z31.D	1016Z32.D	1016Z33 D	1016Z34 D	1016Z35.D	1016Z36 D	1016Z37 D	1016Z38 D							
		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	S	Dibromofluoromethane(S)	0.1946	0.1976	0.2355	0.2373	0.2558	0.2587	0.2612	0.2594	0.2525		0.24	11	S			
3	S	1,2-DCA-D4(S)	0.2125	0.2082	0.2482	0.2544	0.2678	0.2673	0.2664	0.2632	0.2547		0.25	9.2	S			
4	I	Chlorobenzene-D5 (IS)																
5	S	Toluene-D8(S)	0.9669	0.9810	1.206	1.231	1.362	1.363	1.380	1.380	1.287		1.2	13	S			
6	SL	4-Bromofluorobenzene(S)	0.3194	0.3165	0.3990	0.4081	0.4706	0.4745	0.4859	0.4926	0.4783		0.43	16	S	0.999		
7	I	1,4-Dichlorobenzene-D (IS)																
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
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35																		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z30.D Vial: 4
Acq On : 16 Oct 20 16:48 Operator: LP,DG,CH
Sample : 0.3ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1697466	25.00 ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1181869	25.00 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	655069	25.00 ppb	0.00
System Monitoring Compounds					
2) Dibromofluoromethane(S)	4.50	111	66061	4.07 ppb	0.00
Spiked Amount 25.000			Recovery	= 16.272%	
3) 1,2-DCA-D4(S)	4.78	65	72155	4.26 ppb	0.00
Spiked Amount 25.000			Recovery	= 17.060%	
5) Toluene-D8(S)	6.44	98	228546	3.90 ppb	0.00
Spiked Amount 25.000			Recovery	= 15.596%	
6) 4-Bromofluorobenzene(S)	8.83	95	75489	4.55 ppb	0.00
Spiked Amount 25.000			Recovery	= 18.216%	

Target Compounds Qvalue

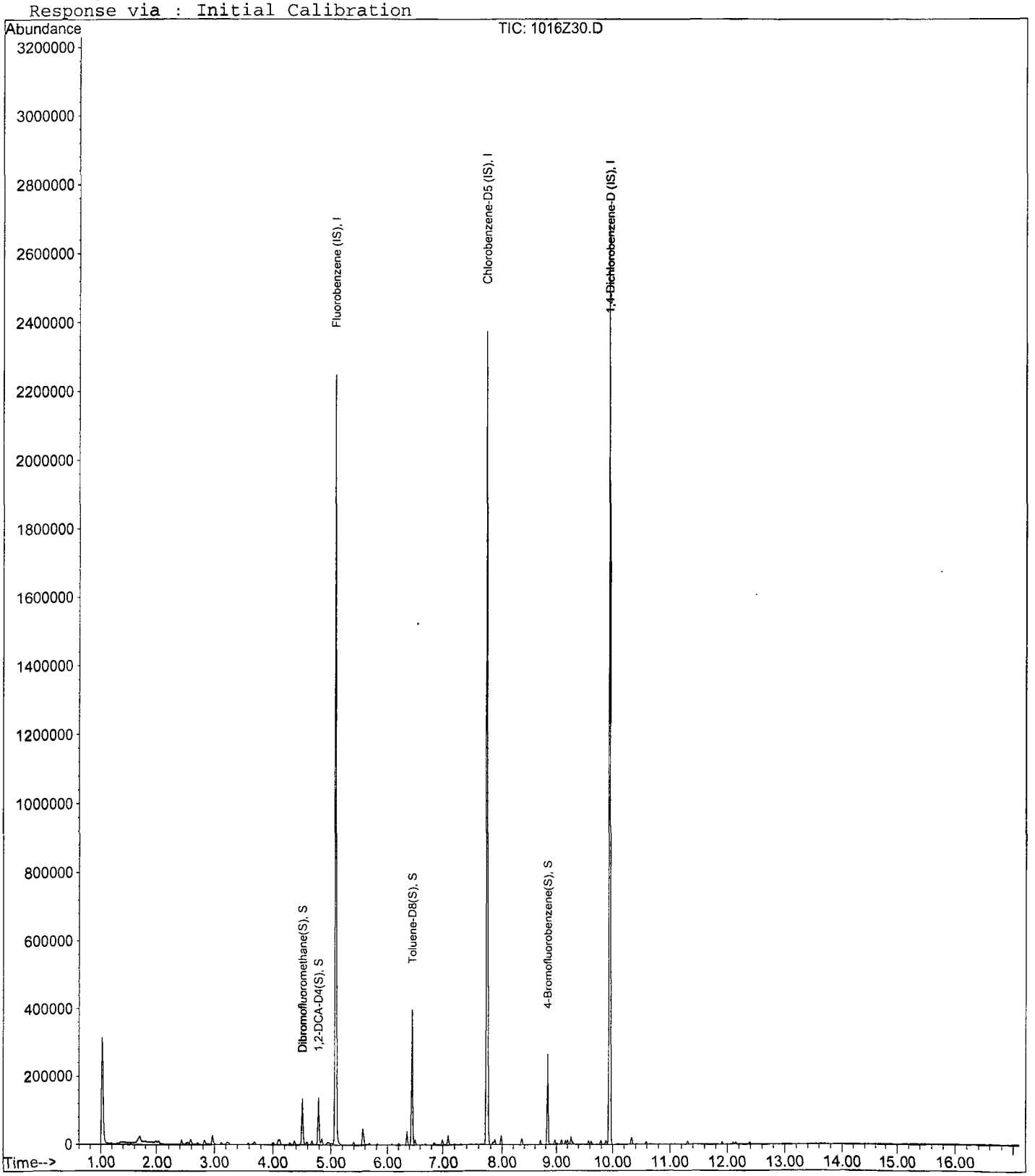
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z30.D Vial: 4
Acq On : 16 Oct 20 16:48 Operator: LP,DG,CH
Sample : 0.3ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z31.D Vial: 5
Acq On : 16 Oct 20 17:11 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1636282	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.74	117	1145414	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	627228	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	64663	4.13	ppb	0.00
Spiked Amount 25.000			Recovery = 16.524%			
3) 1,2-DCA-D4(S)	4.78	65	68121	4.18	ppb	0.00
Spiked Amount 25.000			Recovery = 16.708%			
5) Toluene-D8(S)	6.45	98	224737	3.96	ppb	0.00
Spiked Amount 25.000			Recovery = 15.824%			
6) 4-Bromofluorobenzene(S)	8.83	95	72496	4.52	ppb	0.00
Spiked Amount 25.000			Recovery = 18.100%			

Target Compounds Qvalue

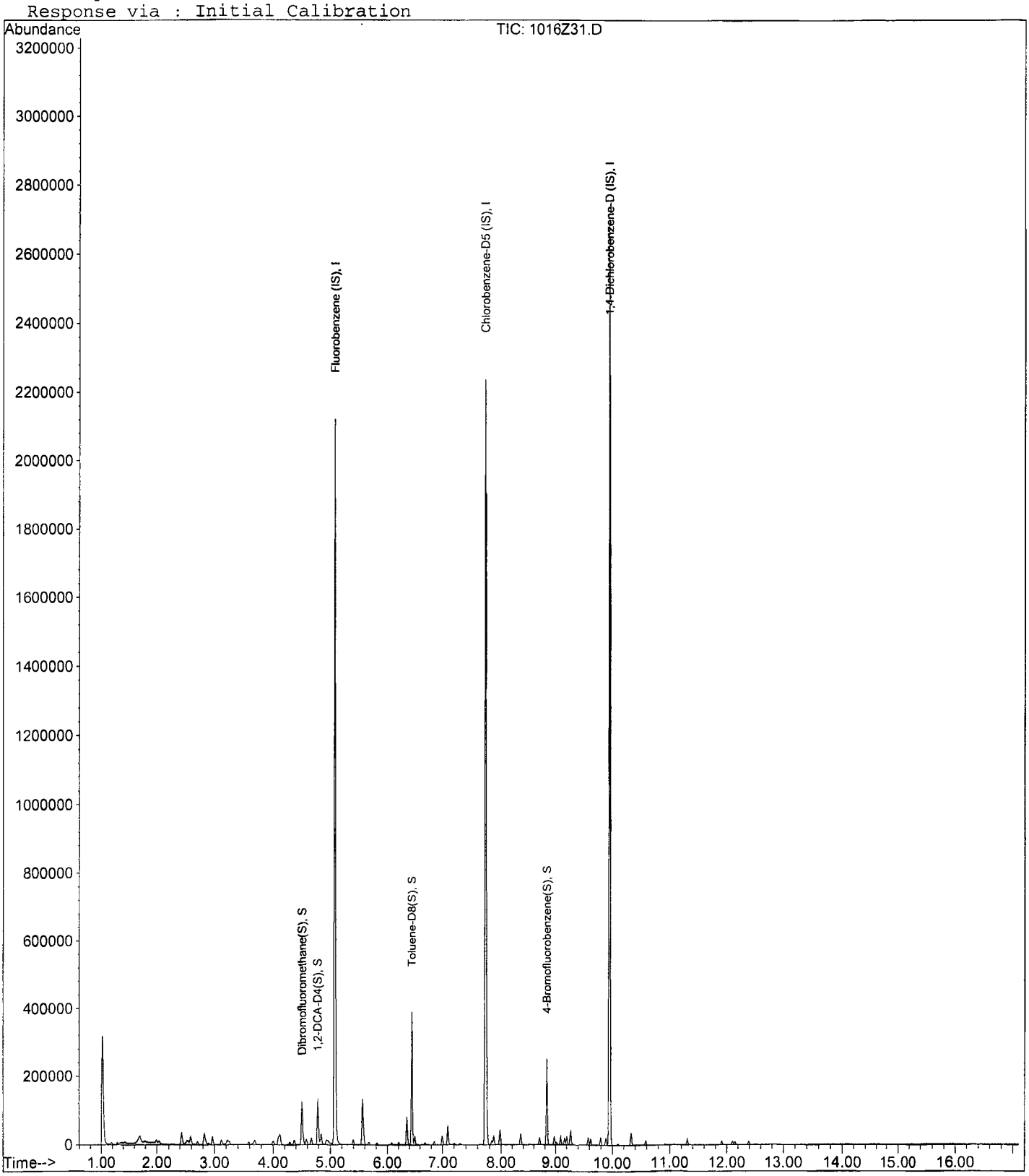
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z31.D Vial: 5
Acq On : 16 Oct 20 17:11 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z32.D Vial: 6
Acq On : 16 Oct 20 17:34 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1664785	25.00 ppb	0.00
4) Chlorobenzene-D5 (IS)	7.74	117	1166593	25.00 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	645296	25.00 ppb	0.00
System Monitoring Compounds					
2) Dibromofluoromethane(S)	4.50	111	156804	9.85 ppb	0.00
Spiked Amount 25.000			Recovery	= 39.380%	
3) 1,2-DCA-D4(S)	4.78	65	165293	9.96 ppb	0.00
Spiked Amount 25.000			Recovery	= 39.844%	
5) Toluene-D8(S)	6.44	98	562609	9.72 ppb	0.00
Spiked Amount 25.000			Recovery	= 38.900%	
6) 4-Bromofluorobenzene(S)	8.83	95	186205	9.43 ppb	0.00
Spiked Amount 25.000			Recovery	= 37.732%	
Target Compounds					Qvalue

(#) = qualifier out of range (m) = manual integration

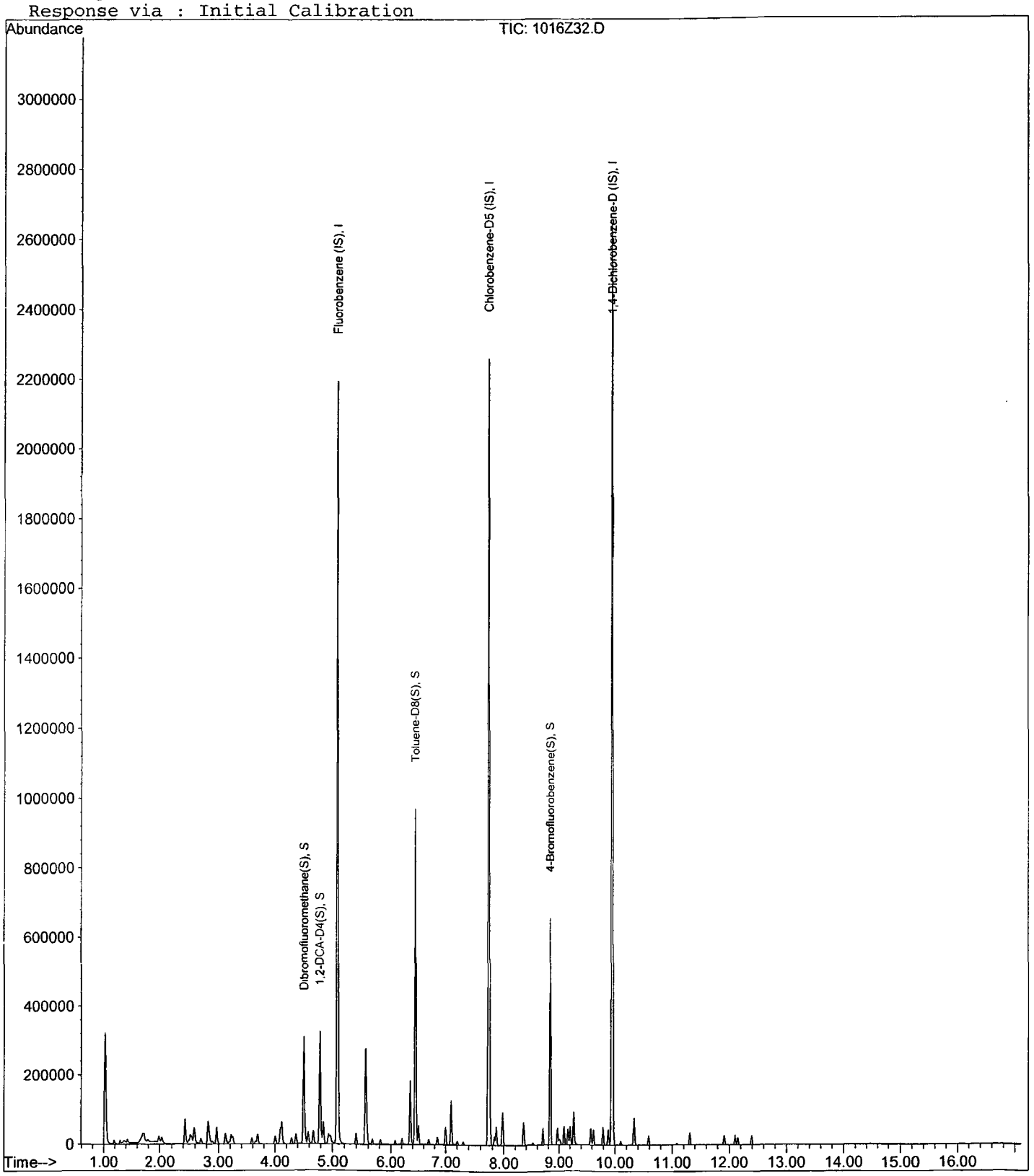
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z32.D
Acq On : 16 Oct 20 17:34
Sample : 1ug/L VOC STD 10/16/20
Misc :

Vial: 6
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z33.D Vial: 7
Acq On : 16 Oct 20 17:57 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1665942	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.74	117	1172489	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	650691	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	158152	9.92	ppb	0.00
Spiked Amount 25.000			Recovery =	39.692%		
3) 1,2-DCA-D4(S)	4.78	65	169506	10.21	ppb	0.00
Spiked Amount 25.000			Recovery =	40.832%		
5) Toluene-D8(S)	6.44	98	577504	9.93	ppb	0.00
Spiked Amount 25.000			Recovery =	39.728%		
6) 4-Bromofluorobenzene(S)	8.83	95	191413	9.62	ppb	0.00
Spiked Amount 25.000			Recovery =	38.472%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

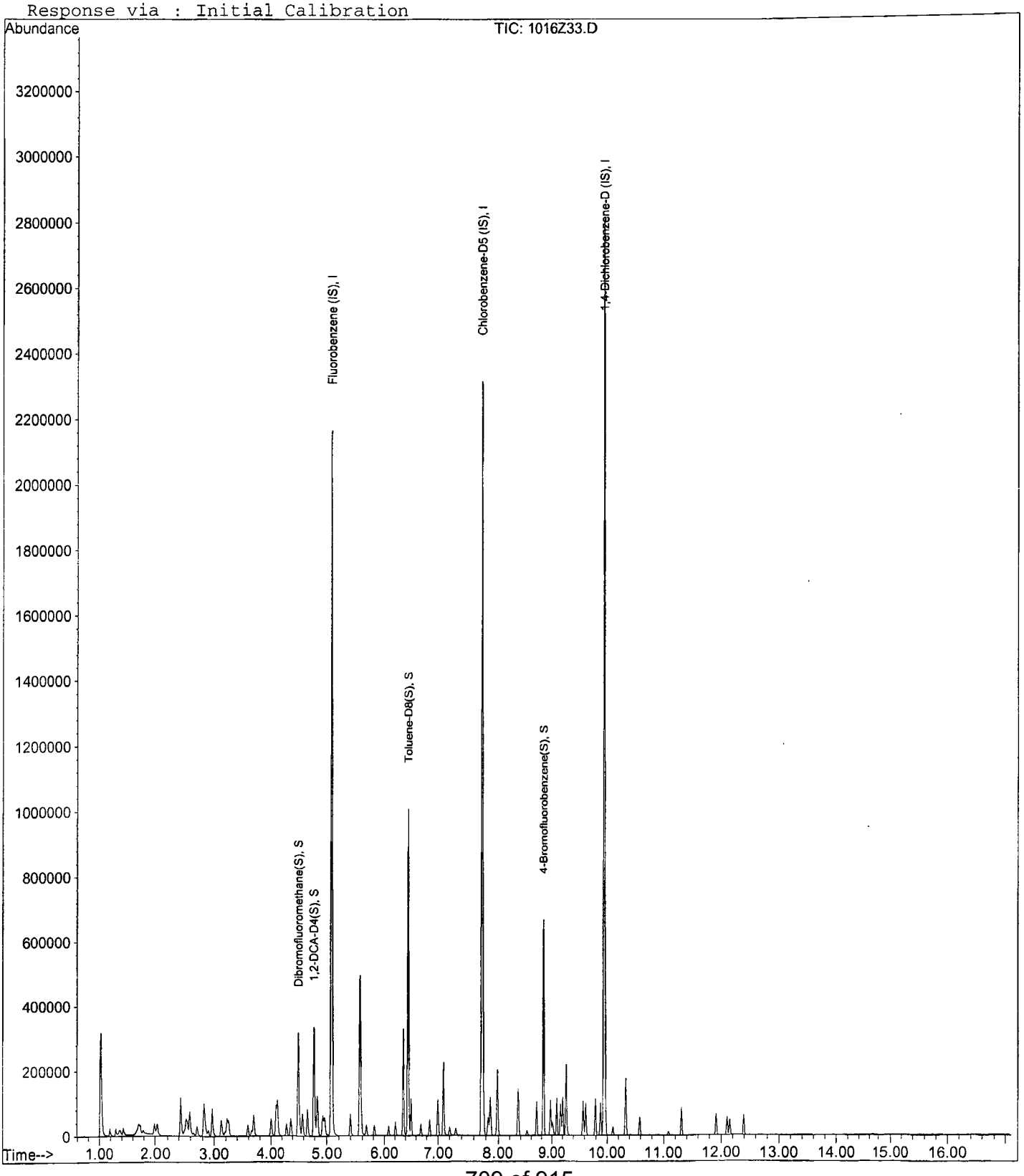
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z33.D
Acq On : 16 Oct 20 17:57
Sample : 2ug/L VOC STD 10/16/20
Misc :

Vial: 7
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z34.D Vial: 8
Acq On : 16 Oct 20 18:21 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1832153	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.74	117	1258519	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	697389	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	468622	26.74	ppb	0.00
Spiked Amount 25.000			Recovery =	106.940%		
3) 1,2-DCA-D4(S)	4.78	65	490570	26.86	ppb	0.00
Spiked Amount 25.000			Recovery =	107.456%		
5) Toluene-D8(S)	6.45	98	1714270	27.47	ppb	0.00
Spiked Amount 25.000			Recovery =	109.868%		
6) 4-Bromofluorobenzene(S)	8.83	95	592298	25.28	ppb	0.00
Spiked Amount 25.000			Recovery =	101.124%		

Target Compounds Qvalue

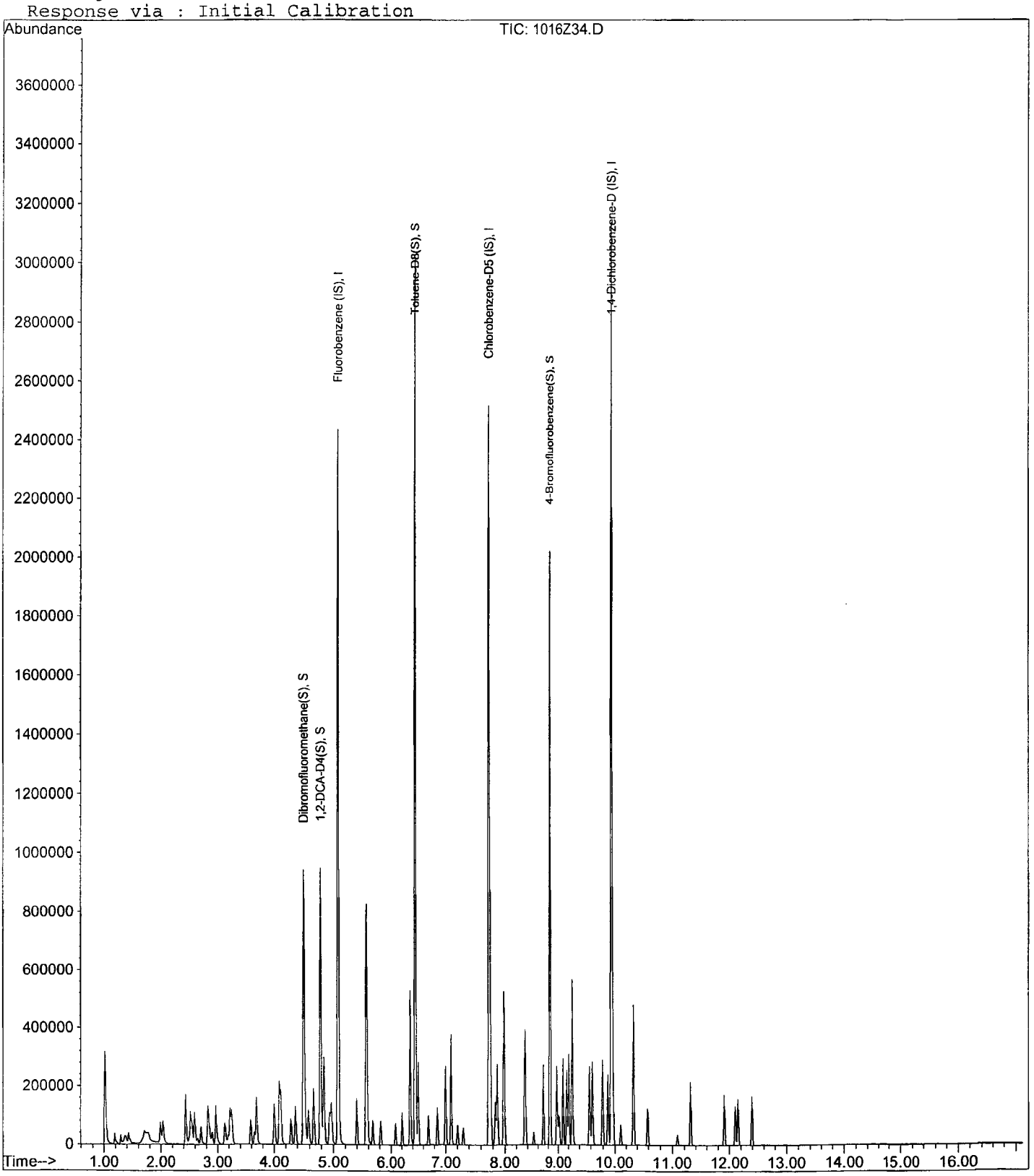
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z34.D Vial: 8
Acq On : 16 Oct 20 18:21 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z35.D Vial: 9
Acq On : 16 Oct 20 18:44 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1852119	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1279265	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	708302	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	479222	27.05	ppb	0.00
Spiked Amount 25.000			Recovery =	108.180%		
3) 1,2-DCA-D4(S)	4.78	65	495035	26.82	ppb	0.00
Spiked Amount 25.000			Recovery =	107.264%		
5) Toluene-D8(S)	6.44	98	1743650	27.48	ppb	0.00
Spiked Amount 25.000			Recovery =	109.940%		
6) 4-Bromofluorobenzene(S)	8.83	95	607068	25.48	ppb	0.00
Spiked Amount 25.000			Recovery =	101.920%		

Target Compounds Qvalue

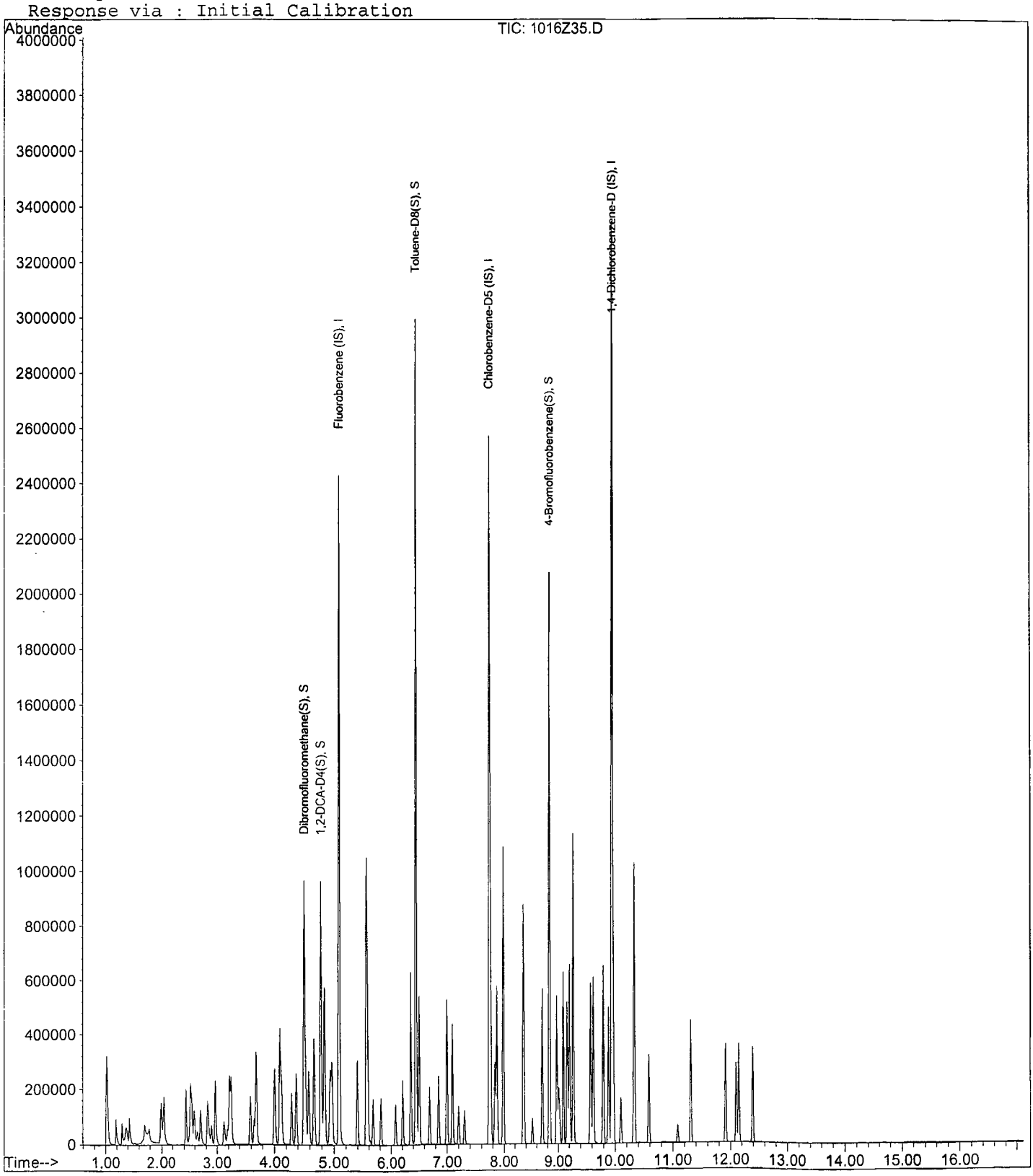
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z35.D Vial: 9
Acq On : 16 Oct 20 18:44 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z36.D Vial: 10
Acq On : 16 Oct 20 19:07 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1991993	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.74	117	1373902	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	751754	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	1040472	54.60	ppb	0.00
Spiked Amount 25.000			Recovery = 218.384%			
3) 1,2-DCA-D4(S)	4.78	65	1061420	53.46	ppb	0.00
Spiked Amount 25.000			Recovery = 213.840%			
5) Toluene-D8(S)	6.45	98	3792704	55.67	ppb	0.00
Spiked Amount 25.000			Recovery = 222.664%			
6) 4-Bromofluorobenzene(S)	8.83	95	1335064	50.81	ppb	0.00
Spiked Amount 25.000			Recovery = 203.260%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

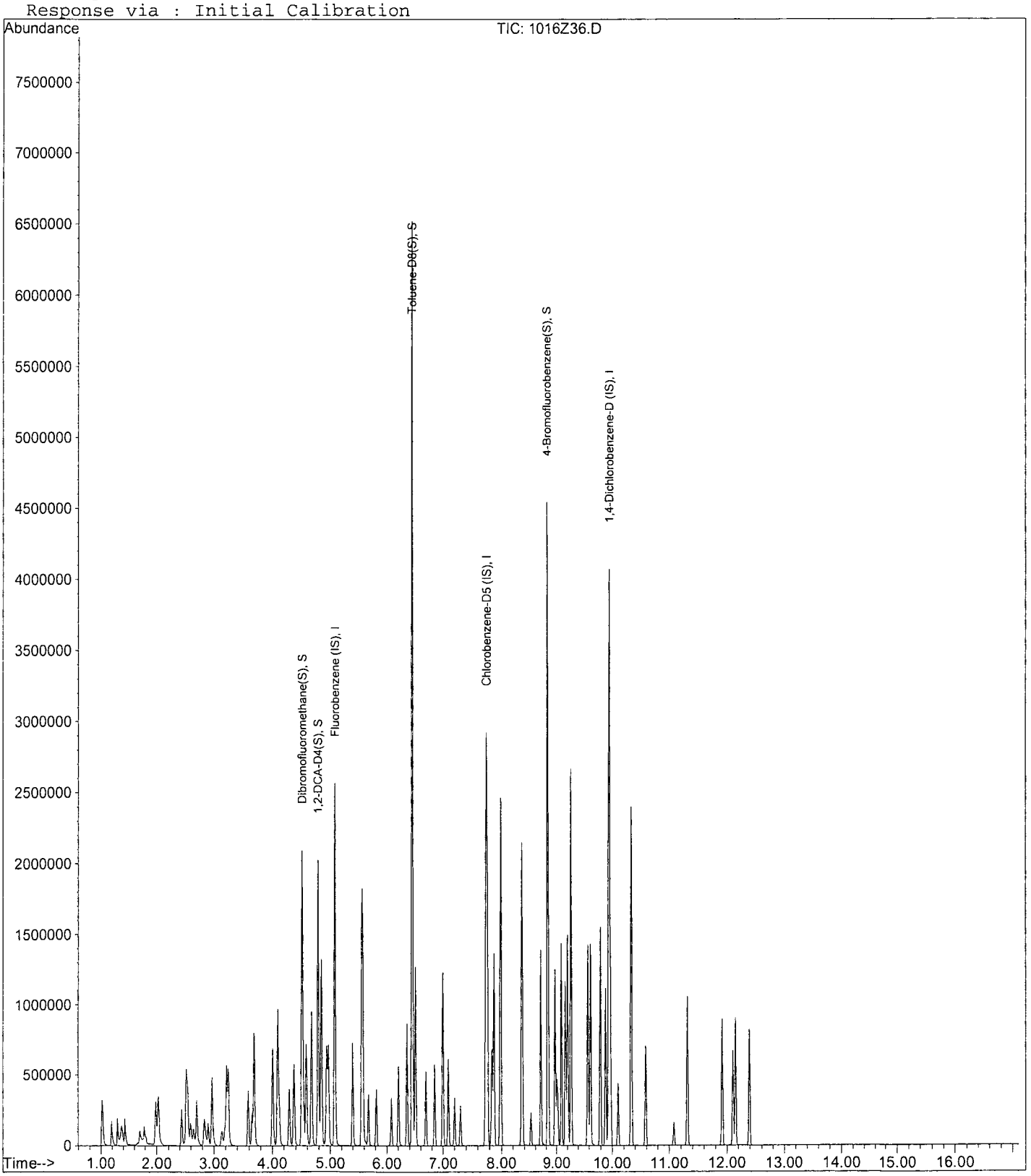
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z36.D
Acq On : 16 Oct 20 19:07
Sample : 20ug/L VOC STD 10/16/20
Misc :

Vial: 10
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z37.D Vial: 11
Acq On : 16 Oct 20 19:30 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2112823	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.74	117	1466619	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	785320	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	1096262	54.23	ppb	0.00
Spiked Amount 25.000			Recovery =	216.936%		
3) 1,2-DCA-D4(S)	4.78	65	1112037	52.81	ppb	0.00
Spiked Amount 25.000			Recovery =	211.224%		
5) Toluene-D8(S)	6.45	98	4048681	55.67	ppb	0.00
Spiked Amount 25.000			Recovery =	222.664%		
6) 4-Bromofluorobenzene(S)	8.83	95	1444905	51.50	ppb	0.00
Spiked Amount 25.000			Recovery =	206.004%		

Target Compounds Qvalue

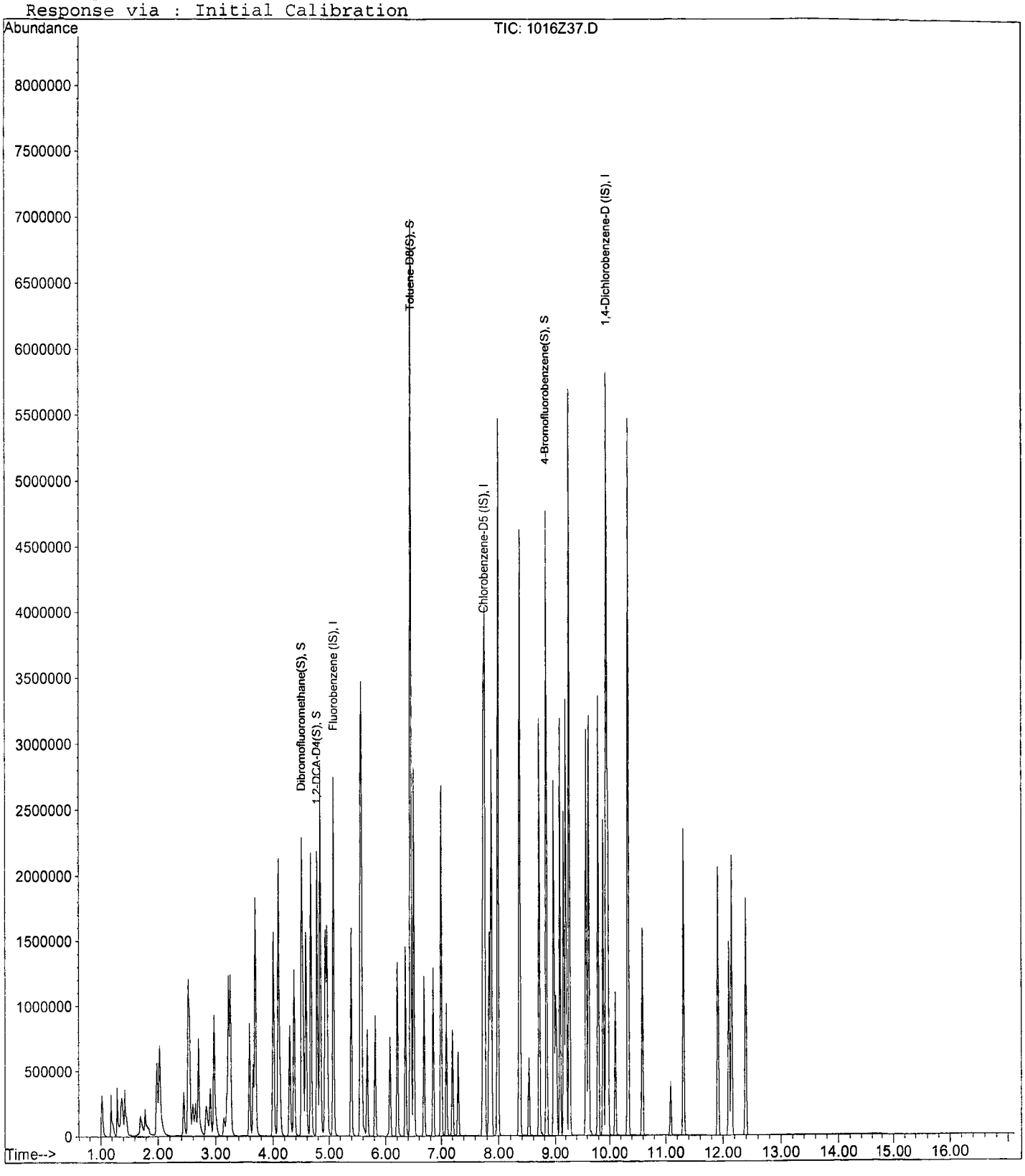
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z37.D Vial: 11
Acq On : 16 Oct 20 19:30 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1016Z38.D Vial: 12
Acq On : 16 Oct 20 19:53 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2377031	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.74	117	1646009	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	833768	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	2400807	105.57	ppb	0.00
Spiked Amount 25.000			Recovery =	422.280%		
3) 1,2-DCA-D4(S)	4.78	65	2421831	102.22	ppb	0.00
Spiked Amount 25.000			Recovery =	408.880%		
5) Toluene-D8(S)	6.45	98	8476397	103.84	ppb	0.00
Spiked Amount 25.000			Recovery =	415.368%		
6) 4-Bromofluorobenzene(S)	8.83	95	3149334	98.79	ppb	0.00
Spiked Amount 25.000			Recovery =	395.172%		

Target Compounds Qvalue

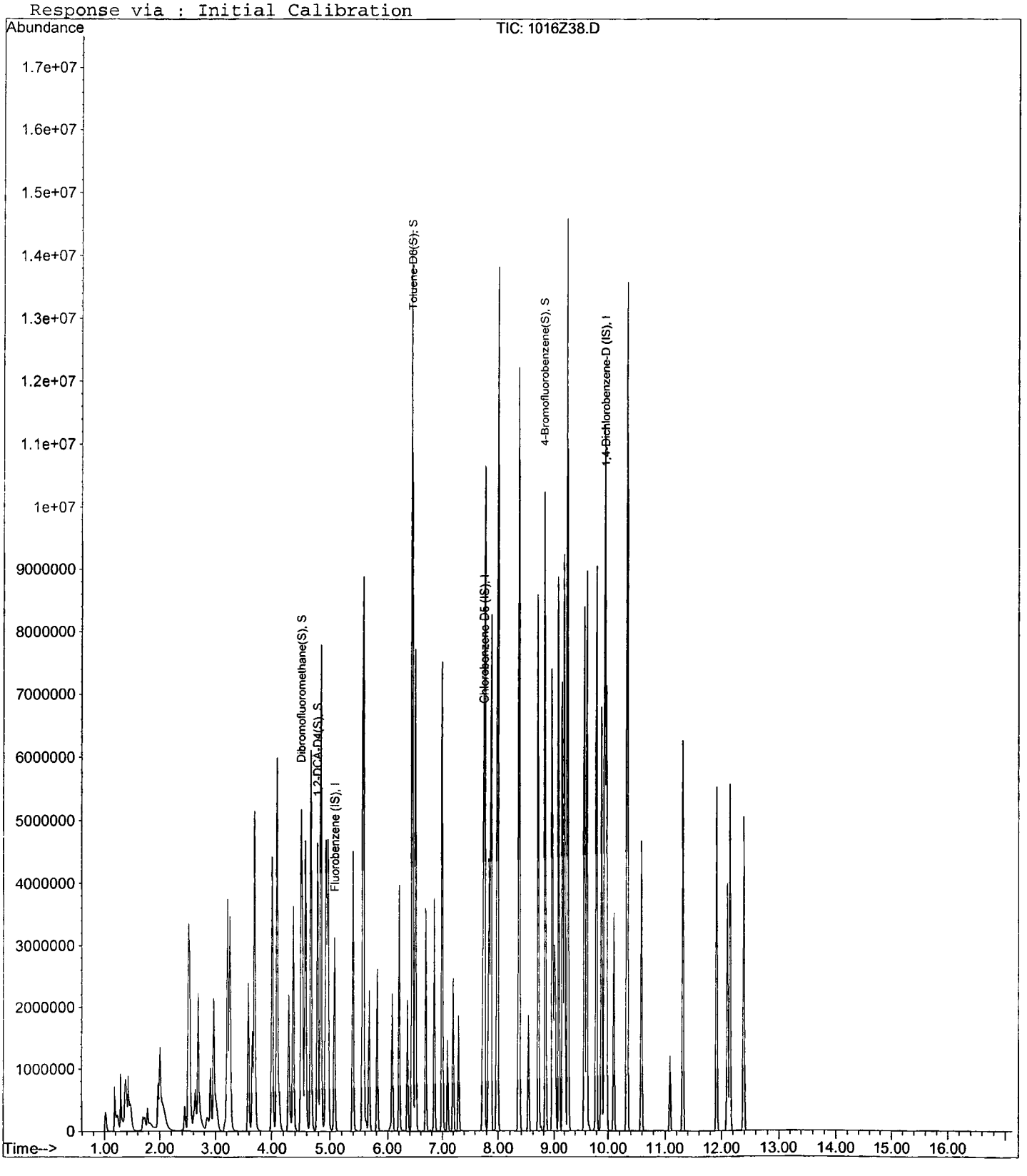
(#) = qualifier out of range (m) = manual integration
1016Z38.D Z1016SUR.M Mon Oct 19 13:48:41 2020

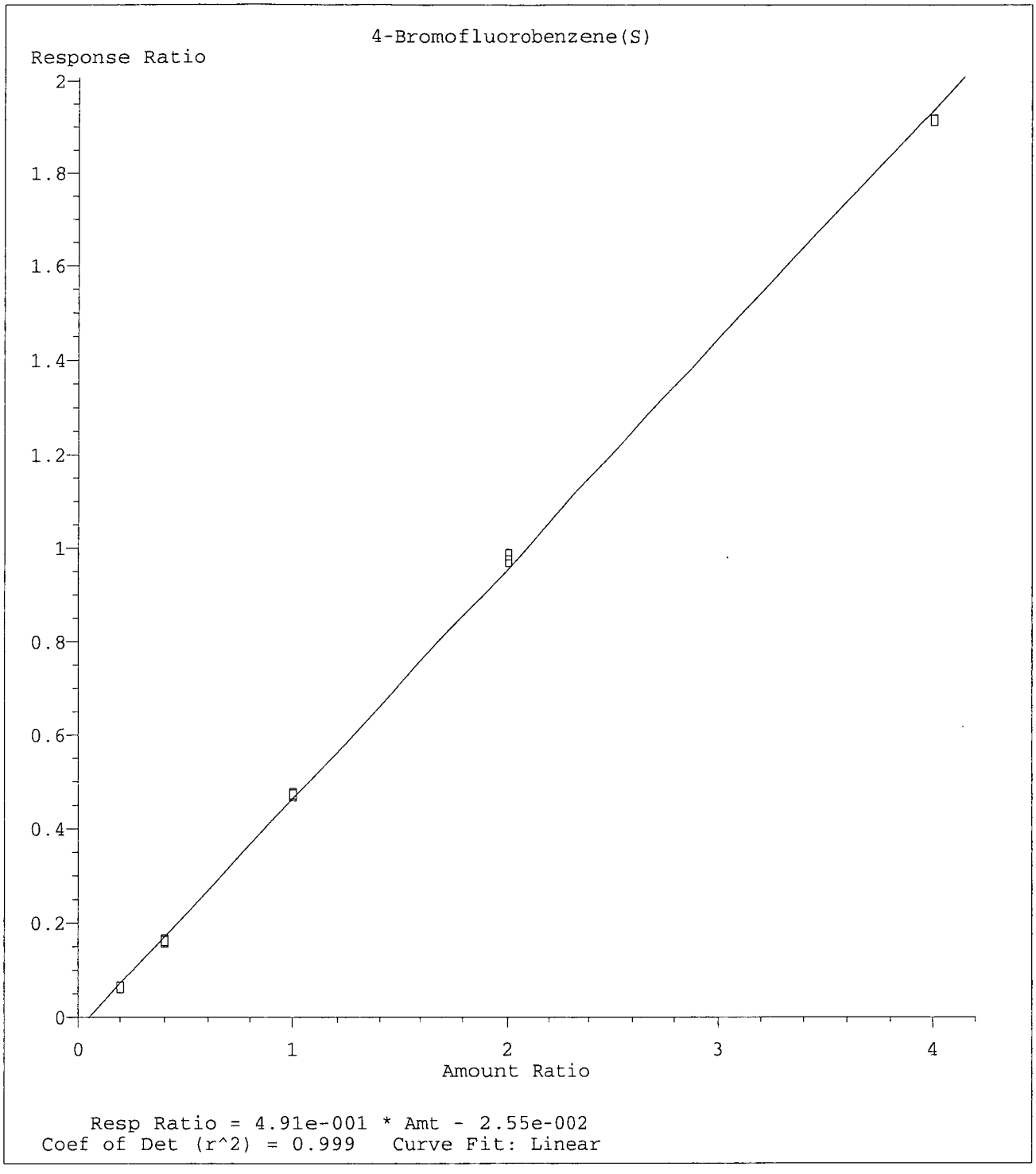
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1016Z38.D Vial: 12
Acq On : 16 Oct 20 19:53 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:47 2020 Quant Results File: Z1016SUR.RES

Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration





Method Name: M:\ZEUS\DATA\201016\Z1016SUR.M
Calibration Table Last Updated: Sat Oct 17 09:49:51 2020

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc
Case No:
Matrix: Water
SDG No:
Initial Cal. Date: 10/17/20
Instrument: ZEUS
Initials: CH

			1017Z04.D	1017Z05.D	1017Z06.D	1017Z07.D	1017Z08.D	1017Z09.D	1017Z10.D									
		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	TMHBL	Gasoline C6-C10	9.666	4.019	2.087	1.036	0.7354	0.6257	0.6352				2.7	123	TMHB	0.993		
3	I	Chlorobenzene-D5 (IS)																
4	I	1,4-Dichlorobenzene-D (IS)																
5																		
6																		
7																		
8																		
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Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z04.D Vial: 3
Acq On : 17 Oct 20 11:16 Operator: LP,DG,CH
Sample : 20ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:36 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2032356	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2446982	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2446982	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline C6-C10	6.44	TIC	15715311m	26.37 ppb	100

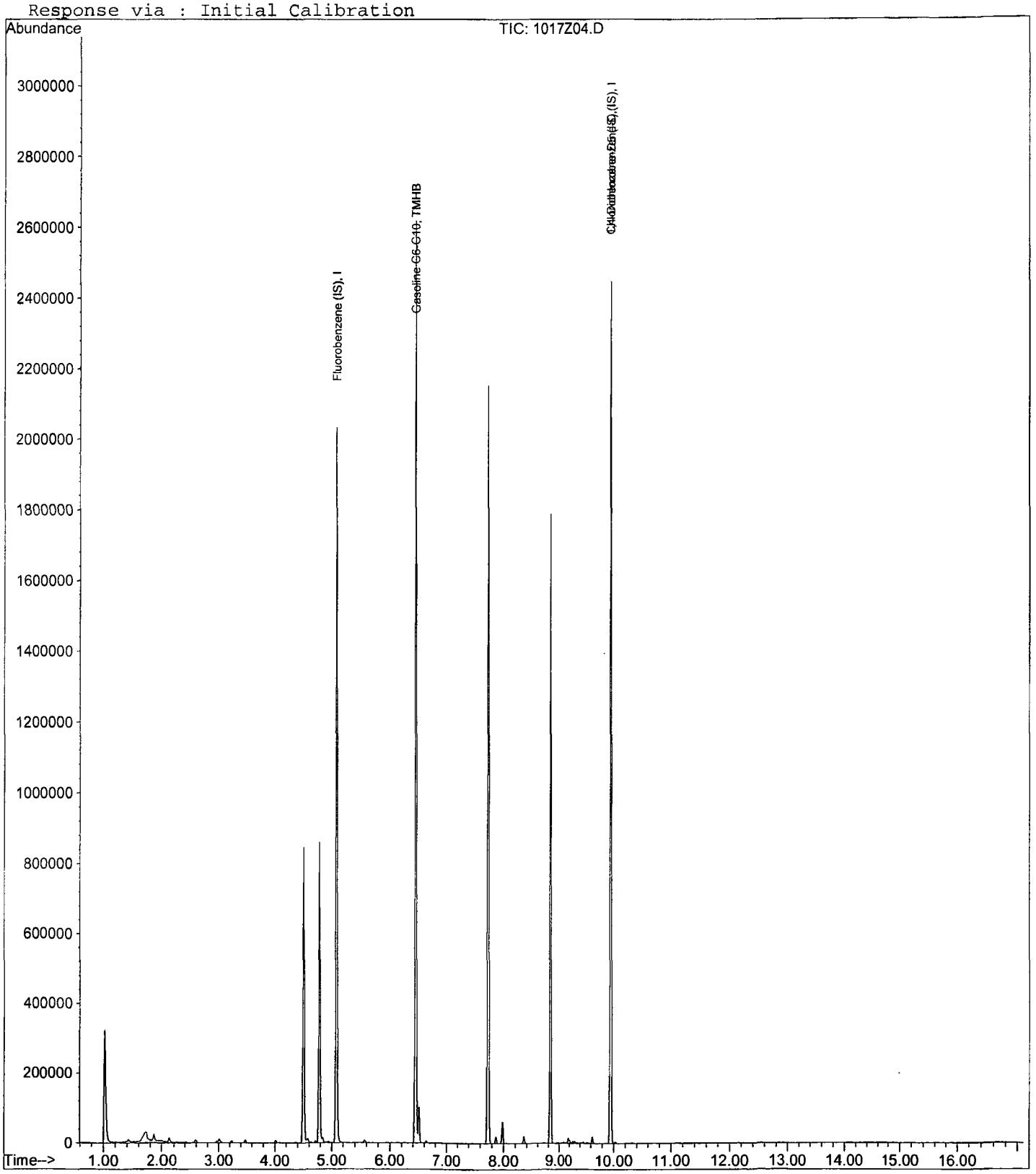
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z04.D Vial: 3
Acq On : 17 Oct 20 11:16 Operator: LP,DG,CH
Sample : 20ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:36 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z05.D Vial: 4
Acq On : 17 Oct 20 11:39 Operator: LP,DG,CH
Sample : 50ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:37 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2100142	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2465426	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2465426	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	16878977m	46.11	ppb	100

(#) = qualifier out of range (m) = manual integration

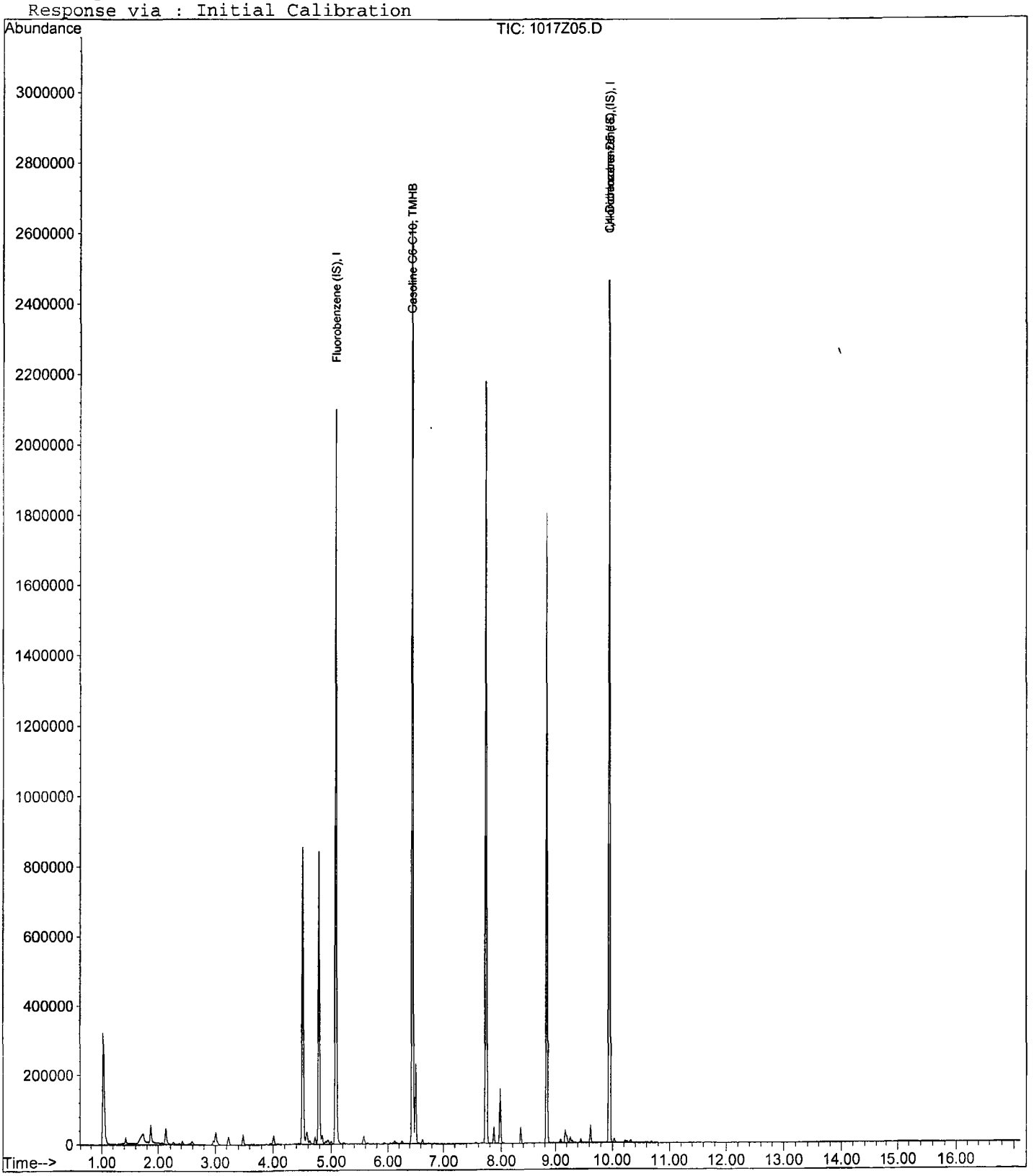
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z05.D
Acq On : 17 Oct 20 11:39
Sample : 50ug/L GAS STD 10/16/20
Misc :

Vial: 4
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:37 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z06.D Vial: 5
Acq On : 17 Oct 20 12:02 Operator: LP,DG,CH
Sample : 100ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:37 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2080794	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2462306	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2462306	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline C6-C10	6.45	TIC	17371266m	66.29 ppb	100

(#) = qualifier out of range (m) = manual integration

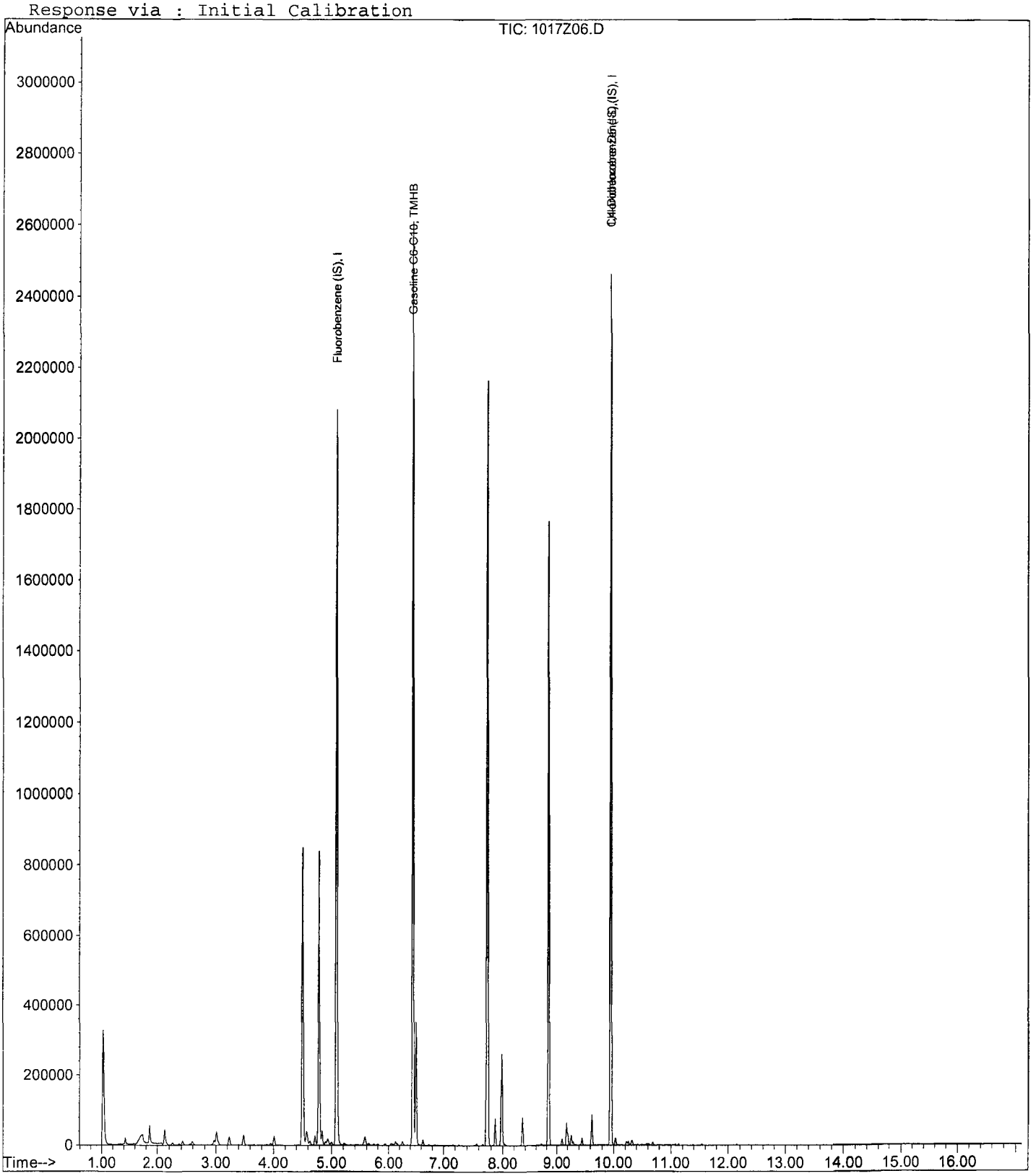
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z06.D
Acq On : 17 Oct 20 12:02
Sample : 100ug/L GAS STD 10/16/20
Misc :

Vial: 5
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:37 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z07.D Vial: 6
Acq On : 17 Oct 20 12:25 Operator: LP,DG,CH
Sample : 300ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:38 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2154973	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2524592	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2524592	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	26788366m	330.93	ppb	100

(#) = qualifier out of range (m) = manual integration

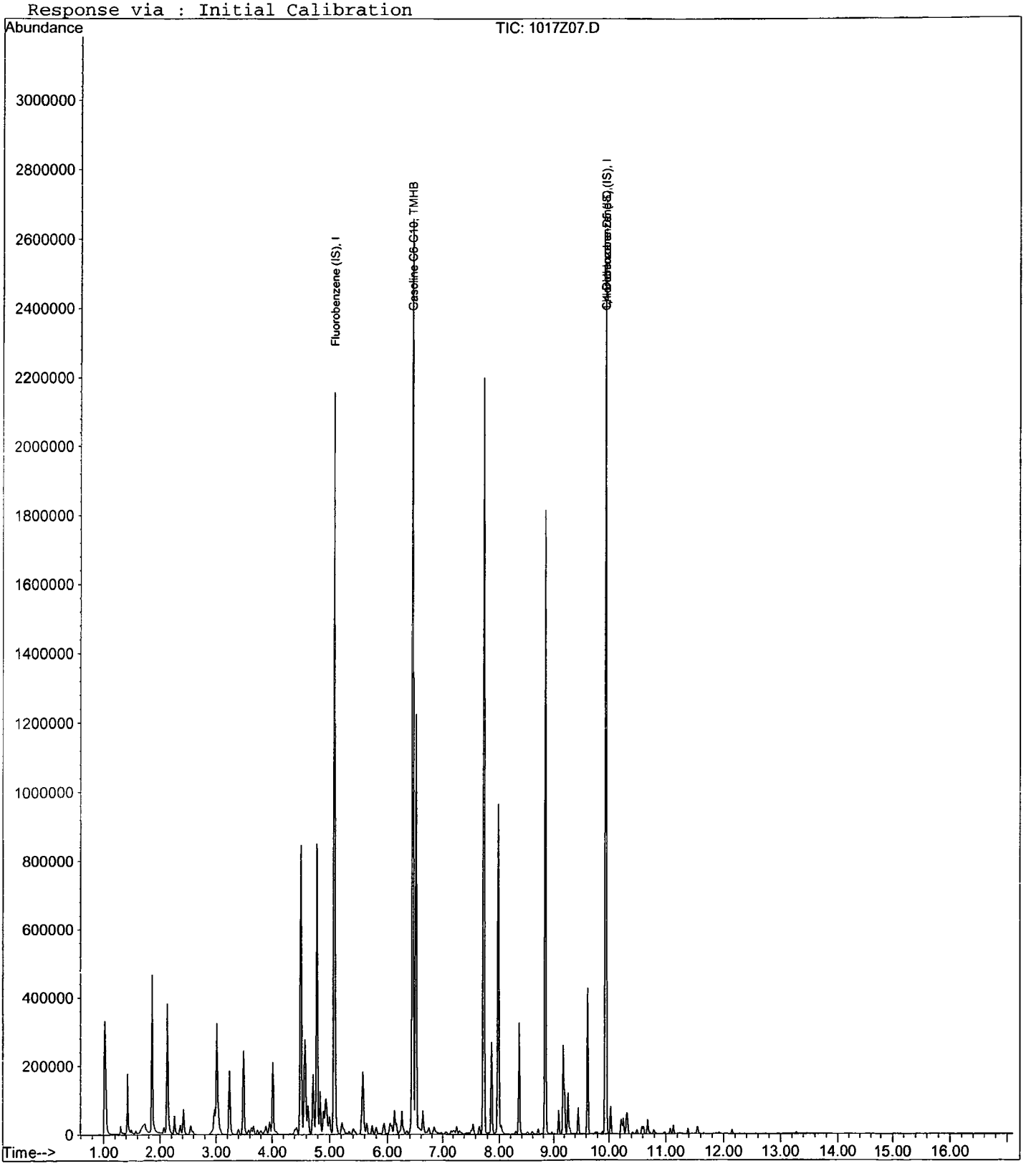
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z07.D
Acq On : 17 Oct 20 12:25
Sample : 300ug/L GAS STD 10/16/20
Misc :

Vial: 6
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:38 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z08.D Vial: 7
Acq On : 17 Oct 20 12:48 Operator: LP,DG,CH
Sample : 600ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:39 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2336650	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2686218	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2686218	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.45	TIC	41240900m	669.21	ppb	100

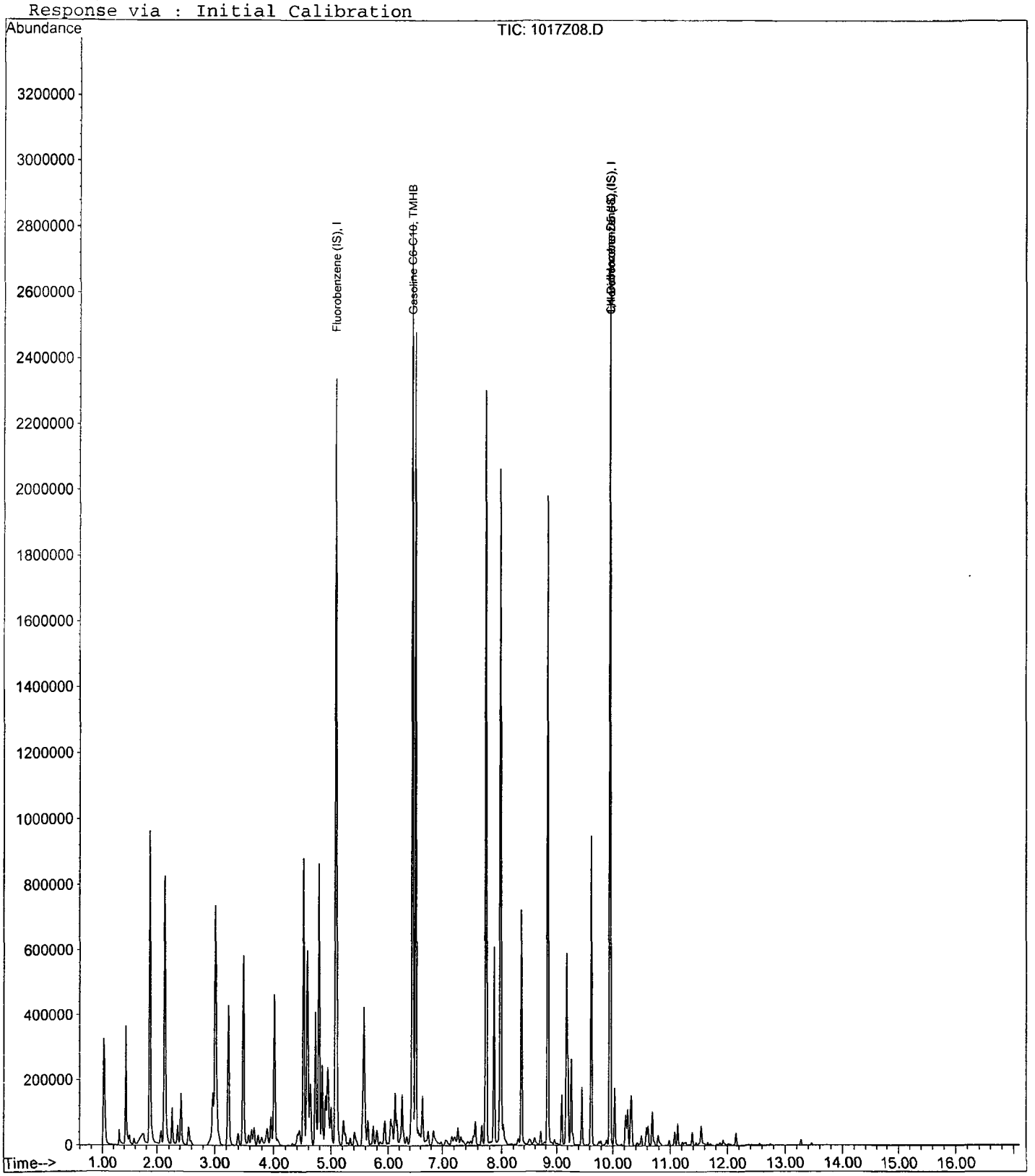
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z08.D Vial: 7
Acq On : 17 Oct 20 12:48 Operator: LP,DG,CH
Sample : 600ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:39 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z09.D Vial: 8
Acq On : 17 Oct 20 13:11 Operator: LP,DG,CH
Sample : 800ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:40 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2524254	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2841418	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2841418	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.51	TIC	50545305m	823.11	ppb	100

(#) = qualifier out of range (m) = manual integration

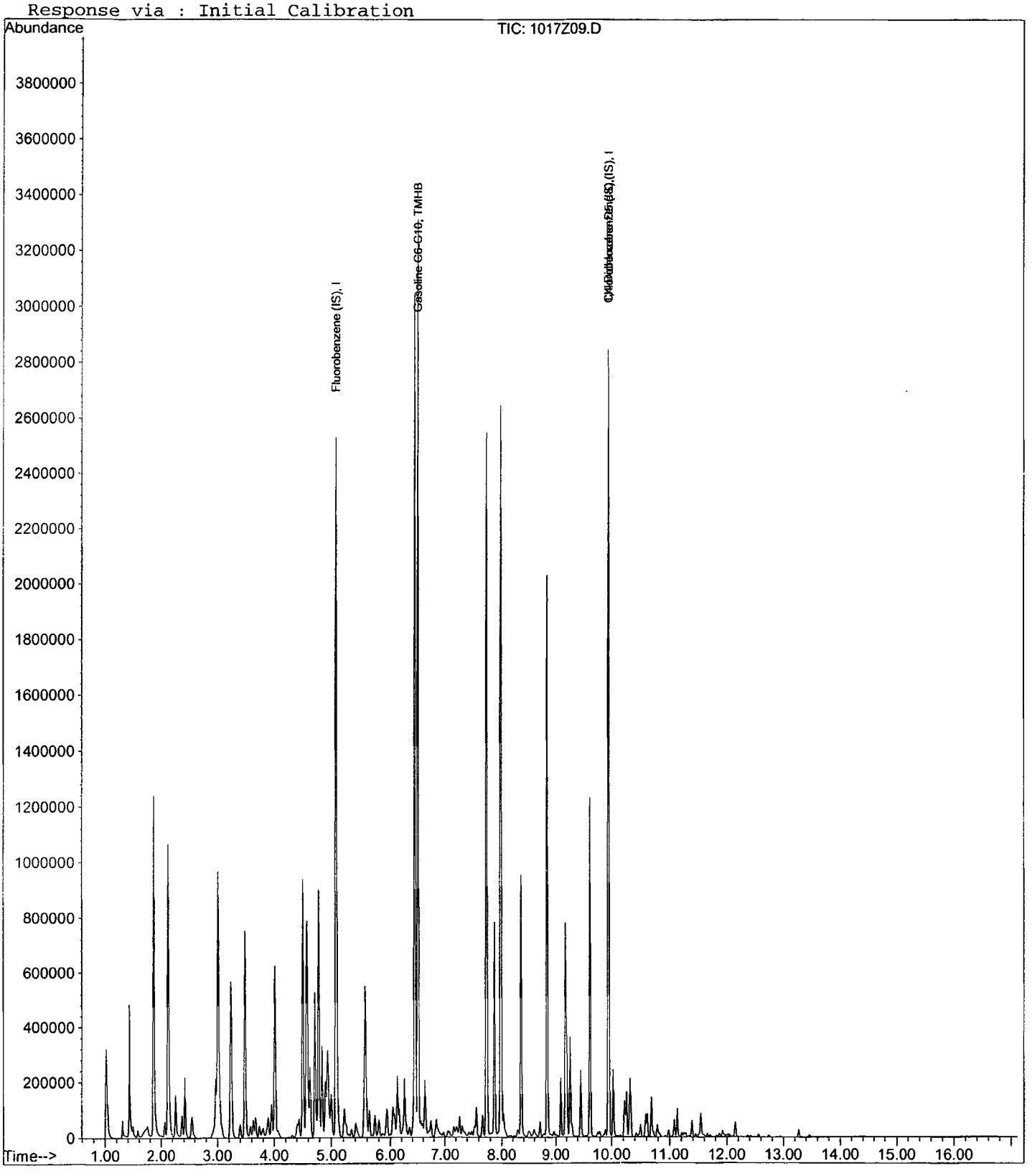
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z09.D
Acq On : 17 Oct 20 13:11
Sample : 800ug/L GAS STD 10/16/20
Misc :

Vial: 8
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:40 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z10.D Vial: 9
Acq On : 17 Oct 20 13:35 Operator: LP,DG,CH
Sample : 1000ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:40 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2695131	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2988393	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2988393	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.50	TIC	68474127m	1172.03	ppb	100

(#) = qualifier out of range (m) = manual integration
1017Z10.D ZGAS1017.M Mon Oct 19 13:32:14 2020

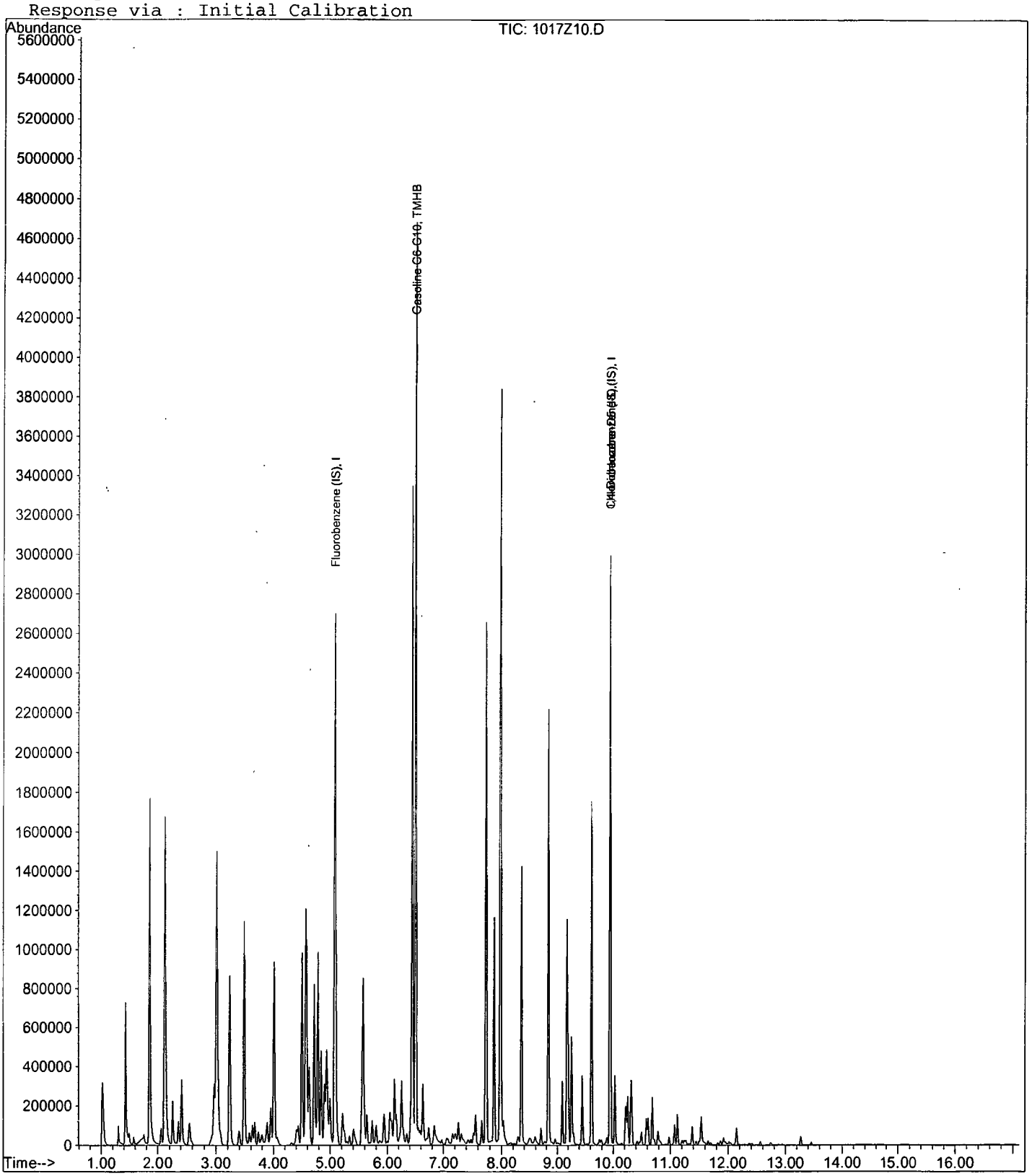
Quantitation Report

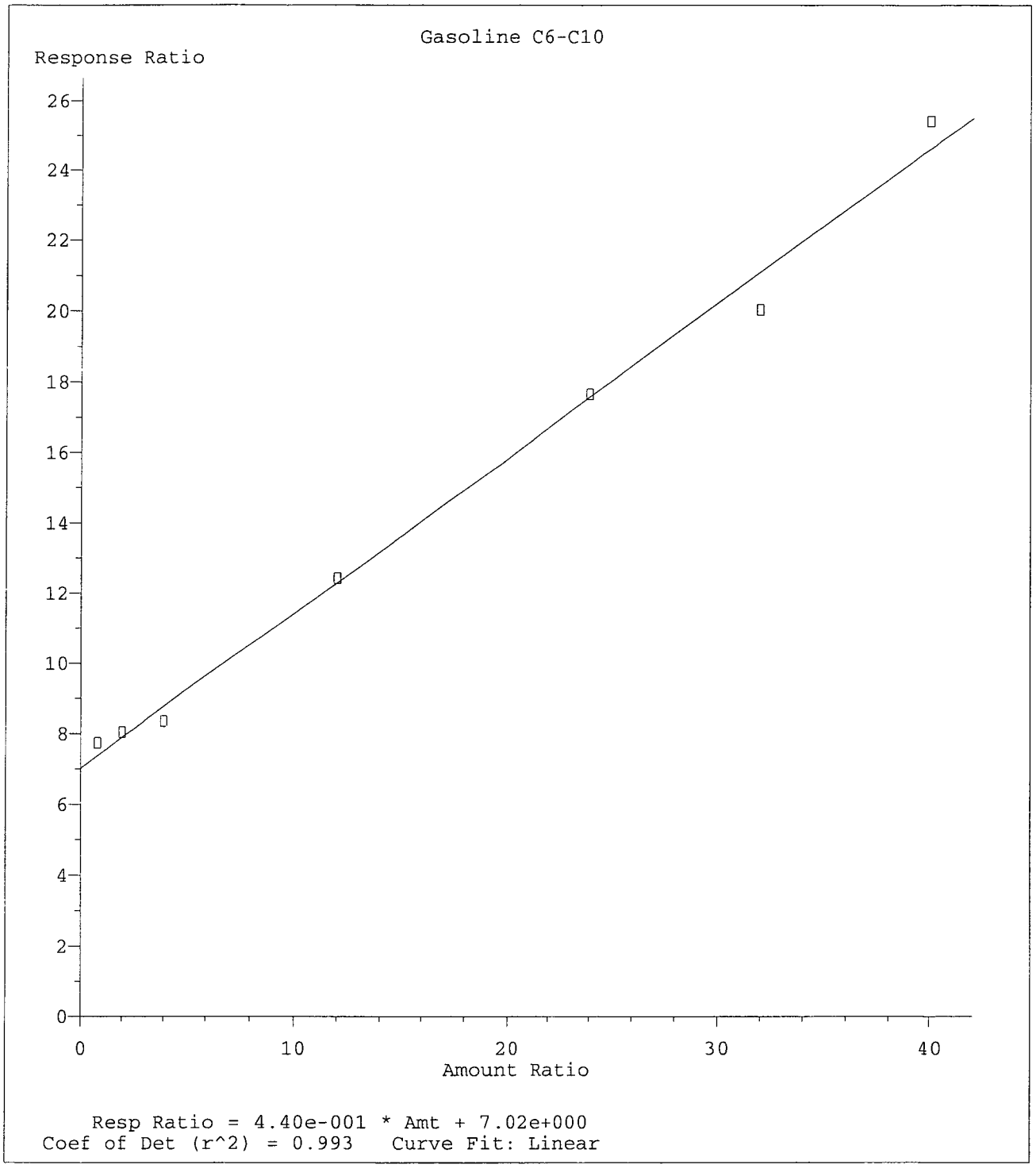
Data File : M:\ZEUS\DATA\201016\1017Z10.D
Acq On : 17 Oct 20 13:35
Sample : 1000ug/L GAS STD 10/16/20
Misc :

Vial: 9
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:40 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration





Method Name: M:\ZEUS\DATA\201016\ZGAS1017.M
Calibration Table Last Updated: Mon Oct 19 08:44:17 2020

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/17/20
Instrument: ZEUS
Initial Cal. Date: 10/17/20
Data File: 1017Z11.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMHB	Gasoline C6-C10	2.686	0.9597	64	TMHBL	15
2							
3							
4							
5							
6							
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35							
36							
37							
38							
39							
40							
		Average			64.0		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z11.D Vial: 10
Acq On : 17 Oct 20 13:58 Operator: LP,DG,CH
Sample : (SS) 300ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:47 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2638646	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	3170844	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	3170844	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	30387543m	255.54	ppb	100

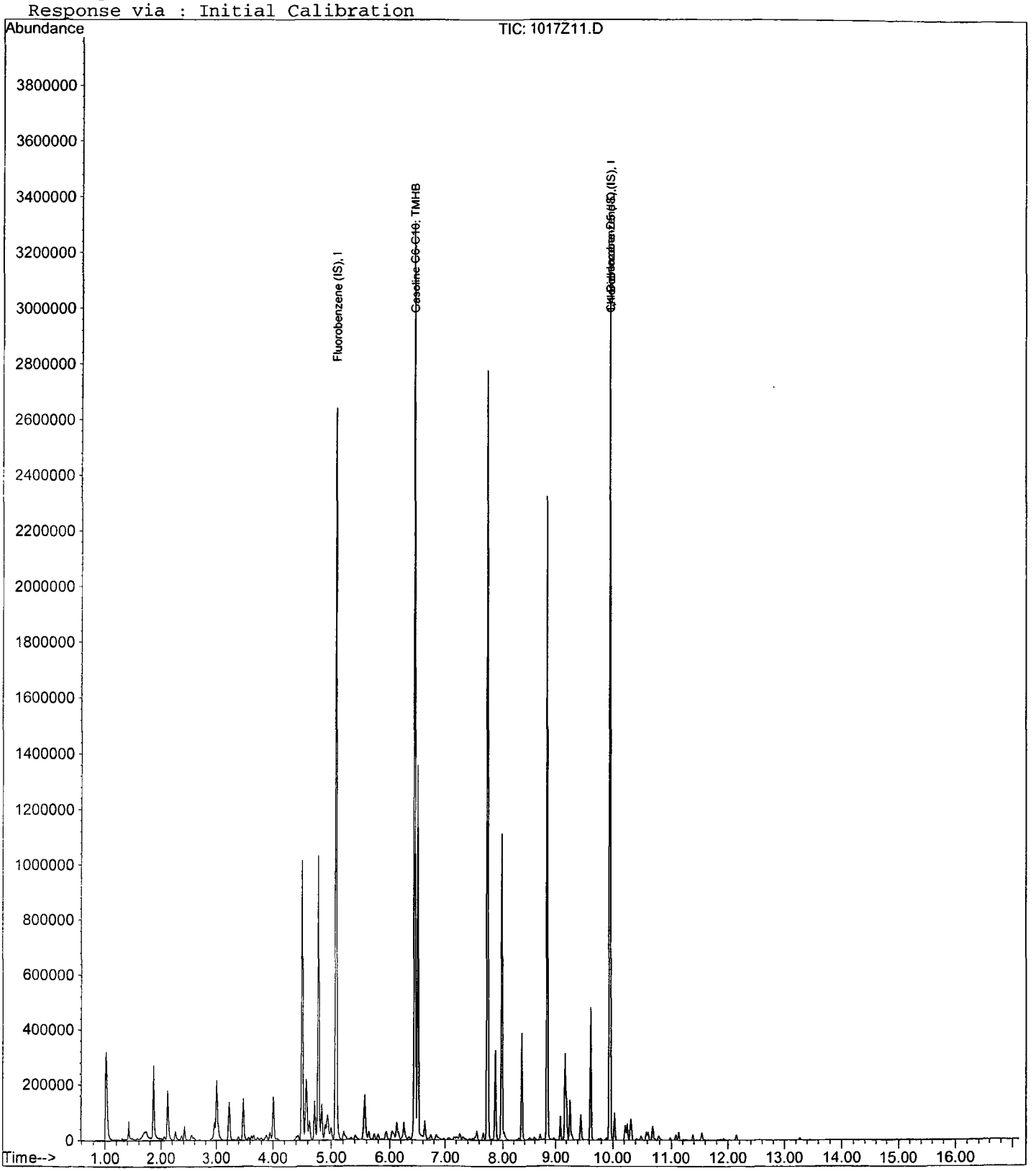
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z11.D Vial: 10
Acq On : 17 Oct 20 13:58 Operator: LP,DG,CH
Sample : (SS) 300ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:47 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/17/20
Instrument: ZEUS
Initial Cal. Date: 10/17/20
Data File: 1017Z16.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	2.686	1.065	60	TMHBL	9.2
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
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33							
34							
35							
36							
37							
38							
39							
40							
		Average			60.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/17/20
Instrument: ZEUS
Initial Cal. Date: 10/16/20
Data File: 1017Z16.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.2392	0.2556	6.9	S	
3	S	1,2-DCA-D4(S)	0.2492	0.2657	6.6	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	S	Toluene-D8(S)	1.240	1.360	9.7	S	
6	SL	4-Bromofluorobenzene(S)	0.4272	0.4734	11	SL	1.7
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
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33							
34							
35							
36							
37							
38							
39							
40							
		Average			8.6		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z16.D Vial: 15
Acq On : 17 Oct 20 15:53 Operator: LP,DG,CH
Sample : 201017A CCV 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:48 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2626019	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2952303	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2952303	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	33568592m	327.57	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z16.D Vial: 15
Acq On : 17 Oct 20 15:53 Operator: LP,DG,CH
Sample : 201017A CCV 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 14:44 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1984596	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1378651	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	743373	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	507189	26.71	ppb	0.00
Spiked Amount 25.000			Recovery =	106.852%		
3) 1,2-DCA-D4(S)	4.78	65	527250	26.65	ppb	0.00
Spiked Amount 25.000			Recovery =	106.620%		
5) Toluene-D8(S)	6.44	98	1874713	27.42	ppb	0.00
Spiked Amount 25.000			Recovery =	109.680%		
6) 4-Bromofluorobenzene(S)	8.83	95	652601	25.42	ppb	0.00
Spiked Amount 25.000			Recovery =	101.680%		

Target Compounds Qvalue

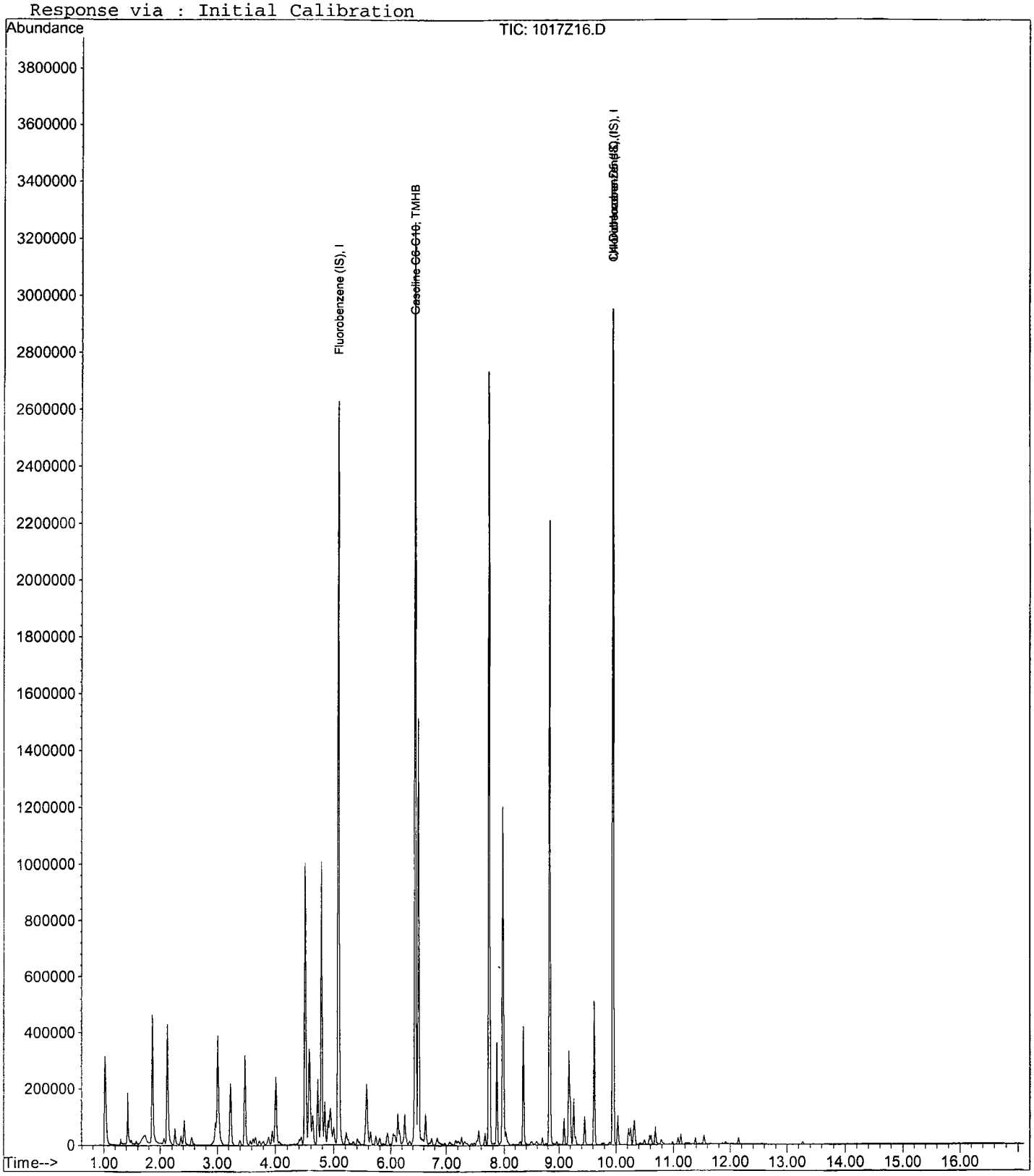
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z16.D Vial: 15
Acq On : 17 Oct 20 15:53 Operator: LP,DG,CH
Sample : 201017A CCV 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:48 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/18/20
Instrument: ZEUS
Initial Cal. Date: 10/17/20
Data File: 1017Z45.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	2.686	1.026	62	TMHBL	0.16
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			62.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/18/20
Instrument: ZEUS
Initial Cal. Date: 10/16/20
Data File: 1017Z45.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.2392	0.2647	11	S	
3	S	1,2-DCA-D4(S)	0.2492	0.2832	14	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	S	Toluene-D8(S)	1.240	1.363	9.9	S	
6	SL	4-Bromofluorobenzene(S)	0.4272	0.4833	13	SL	3.7
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
8							
9							
10							
11							
12							
13							
14							
15							
16							
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32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			12.0		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z45.D Vial: 44
Acq On : 18 Oct 20 03:06 Operator: LP,DG,CH
Sample : Ending CCV 300ug/L 10/17/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:51 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2532182	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2958921	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2958921	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	31162256m	300.47	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z45.D Vial: 44
Acq On : 18 Oct 20 03:06 Operator: LP,DG,CH
Sample : Ending CCV 300ug/L 10/17/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 14:44 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1899668	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1320897	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	725684	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	502841	27.67	ppb	0.00
Spiked Amount 25.000			Recovery =	110.672%		
3) 1,2-DCA-D4(S)	4.78	65	537976	28.41	ppb	0.00
Spiked Amount 25.000			Recovery =	113.652%		
5) Toluene-D8(S)	6.44	98	1799740	27.47	ppb	0.00
Spiked Amount 25.000			Recovery =	109.900%		
6) 4-Bromofluorobenzene(S)	8.83	95	638421	25.93	ppb	0.00
Spiked Amount 25.000			Recovery =	103.712%		

Target Compounds Qvalue

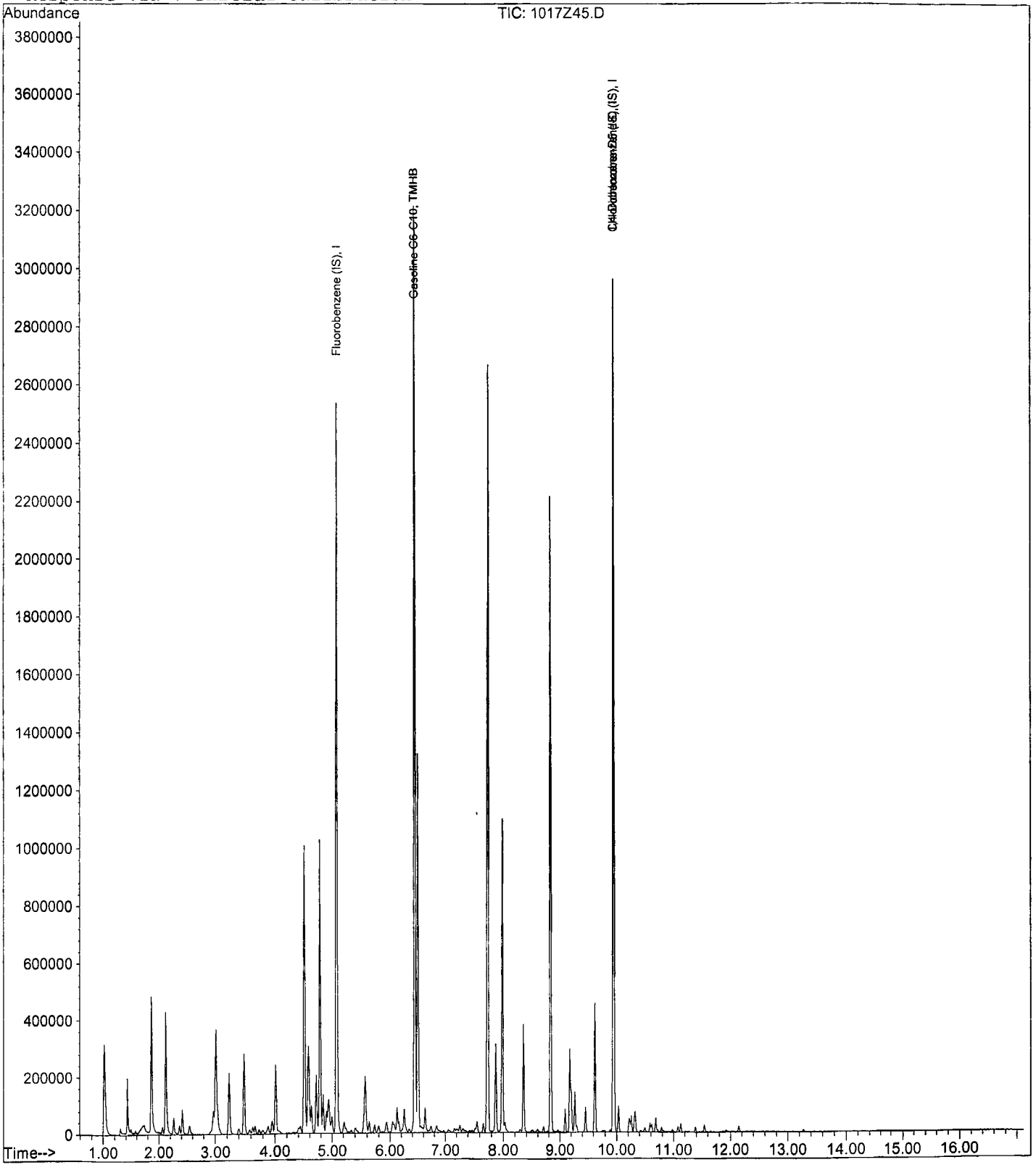
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z45.D Vial: 44
Acq On : 18 Oct 20 03:06 Operator: LP,DG,CH
Sample : Ending CCV 300ug/L 10/17/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:51 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z20.D Vial: 19
Acq On : 17 Oct 20 17:26 Operator: LP,DG,CH
Sample : BA20183W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:47 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2391448	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2786270	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2786270	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z20.D Vial: 19
Acq On : 17 Oct 20 17:26 Operator: LP,DG,CH
Sample : BA20183W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:54 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1831471	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1270903	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	685204	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	491515	28.05	ppb	0.00
Spiked Amount 25.000			Recovery = 112.208%			
3) 1,2-DCA-D4(S)	4.78	65	522034	28.60	ppb	0.00
Spiked Amount 25.000			Recovery = 114.388%			
5) Toluene-D8(S)	6.44	98	1721476	27.31	ppb	0.00
Spiked Amount 25.000			Recovery = 109.256%			
6) 4-Bromofluorobenzene(S)	8.83	95	598663	25.30	ppb	0.00
Spiked Amount 25.000			Recovery = 101.208%			

Target Compounds Qvalue

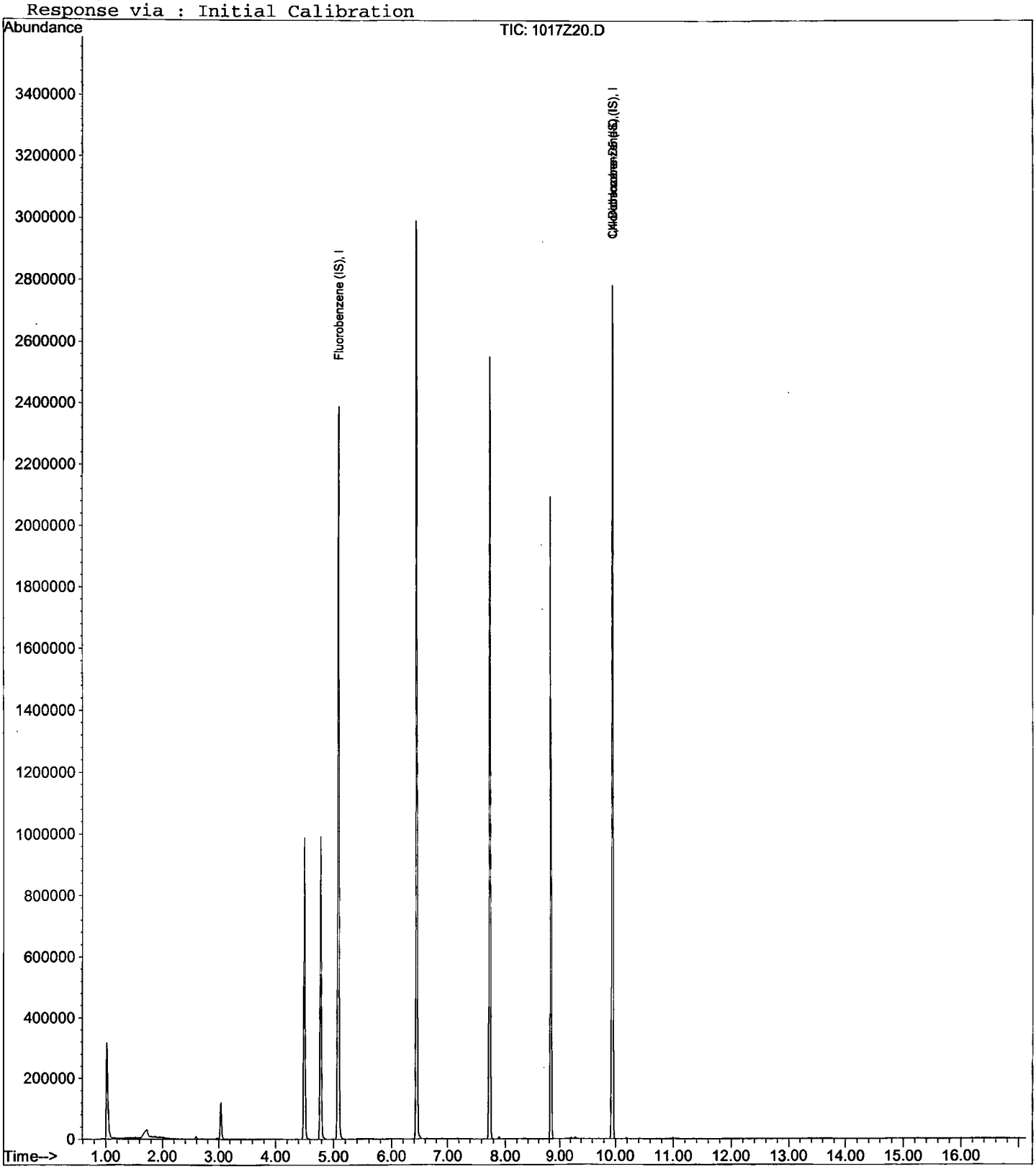
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z20.D Vial: 19
Acq On : 17 Oct 20 17:26 Operator: LP,DG,CH
Sample : BA20183W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:47 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z21.D Vial: 20
Acq On : 17 Oct 20 17:49 Operator: LP,DG,CH
Sample : BA20184W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:47 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2356640	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2796022	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2796022	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1017Z21.D ZGAS1017.M Tue Nov 03 14:28:09 2020 Page 1

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z21.D Vial: 20
Acq On : 17 Oct 20 17:49 Operator: LP,DG,CH
Sample : BA20184W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:54 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1796295	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.74	117	1238277	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	672109	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	477604	27.79	ppb	0.00
Spiked Amount 25.000			Recovery = 111.164%			
3) 1,2-DCA-D4(S)	4.78	65	501342	28.00	ppb	0.00
Spiked Amount 25.000			Recovery = 112.008%			
5) Toluene-D8(S)	6.45	98	1661957	27.06	ppb	0.00
Spiked Amount 25.000			Recovery = 108.256%			
6) 4-Bromofluorobenzene(S)	8.83	95	575952	25.00	ppb	0.00
Spiked Amount 25.000			Recovery = 100.000%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

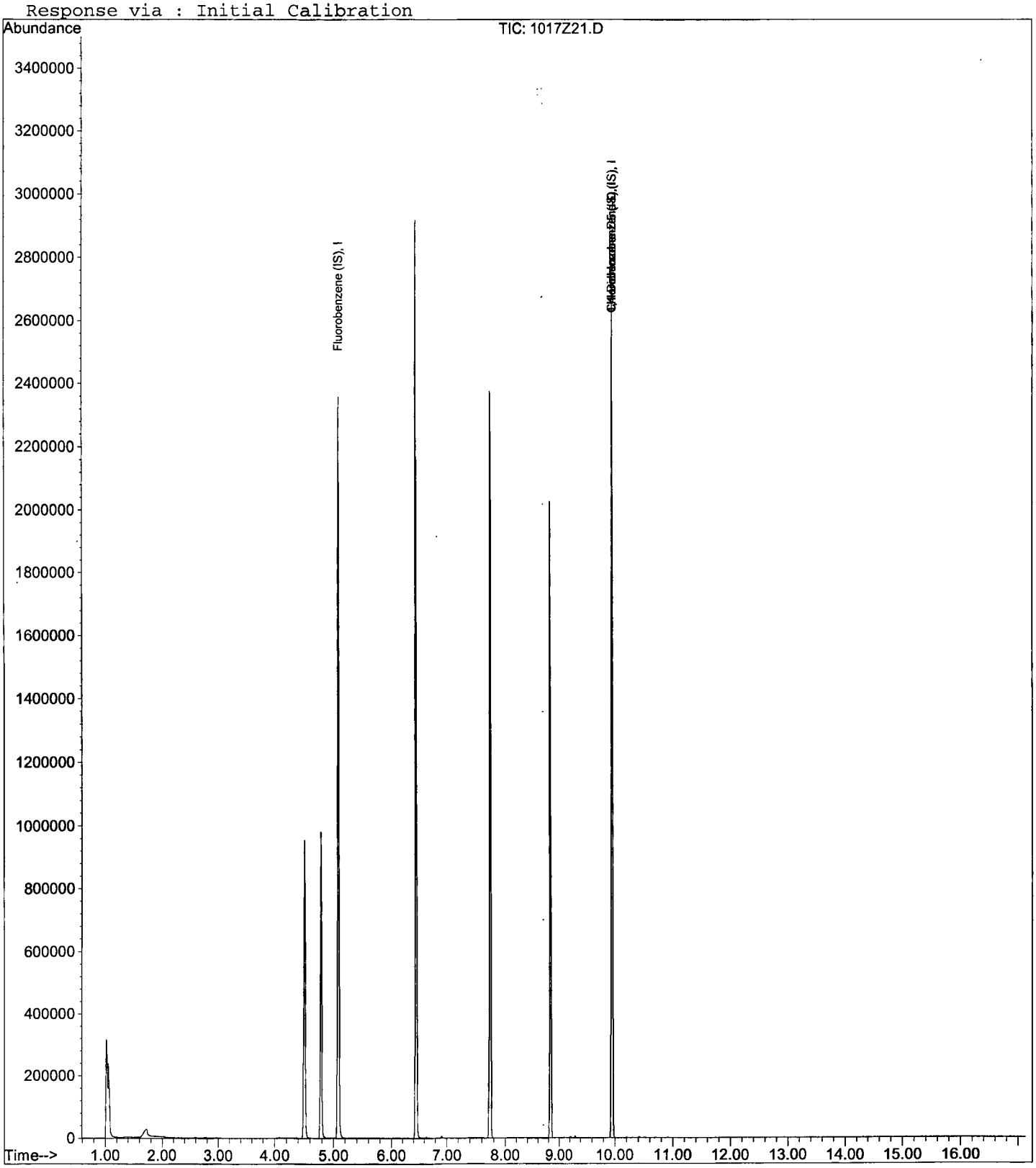
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z21.D
Acq On : 17 Oct 20 17:49
Sample : BA20184W01
Misc :

Vial: 20
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:47 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z22.D Vial: 21
Acq On : 17 Oct 20 18:13 Operator: LP,DG,CH
Sample : BA20185W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:47 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2123876	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2597022	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2597022	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z22.D Vial: 21
Acq On : 17 Oct 20 18:13 Operator: LP,DG,CH
Sample : BA20185W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:54 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1644433	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1147149	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	623269	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	455423	28.95	ppb	0.00
Spiked Amount 25.000			Recovery =	115.792%		
3) 1,2-DCA-D4(S)	4.78	65	473068	28.86	ppb	0.00
Spiked Amount 25.000			Recovery =	115.452%		
5) Toluene-D8(S)	6.44	98	1563965	27.49	ppb	0.00
Spiked Amount 25.000			Recovery =	109.968%		
6) 4-Bromofluorobenzene(S)	8.83	95	543087	25.42	ppb	0.00
Spiked Amount 25.000			Recovery =	101.692%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1017Z22.D Z1016SUR.M Tue Nov 03 14:30:35 2020

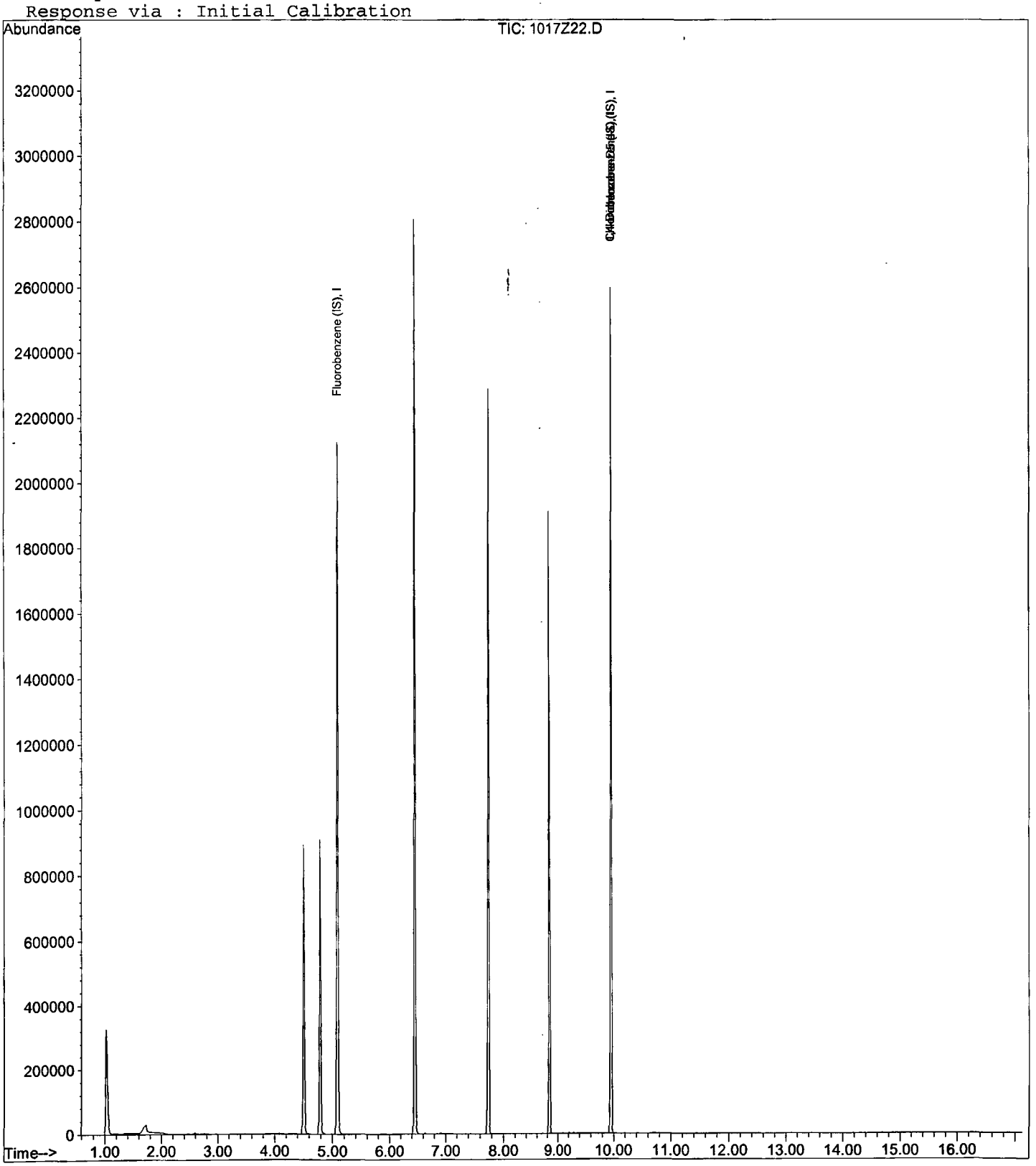
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z22.D
Acq On : 17 Oct 20 18:13
Sample : BA20185W01
Misc :

Vial: 21
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:47 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z23.D Vial: 22
Acq On : 17 Oct 20 18:36 Operator: LP,DG,CH
Sample : BA20186W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:47 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2147467	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2537935	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2537935	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z23.D Vial: 22
Acq On : 17 Oct 20 18:36 Operator: LP,DG,CH
Sample : BA20186W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:54 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1672561	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1148242	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	625770	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	454803	28.42	ppb	0.00
Spiked Amount 25.000			Recovery =	113.688%		
3) 1,2-DCA-D4(S)	4.78	65	482895	28.97	ppb	0.00
Spiked Amount 25.000			Recovery =	115.868%		
5) Toluene-D8(S)	6.44	98	1565494	27.49	ppb	0.00
Spiked Amount 25.000			Recovery =	109.968%		
6) 4-Bromofluorobenzene(S)	8.83	95	540867	25.30	ppb	0.00
Spiked Amount 25.000			Recovery =	101.208%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

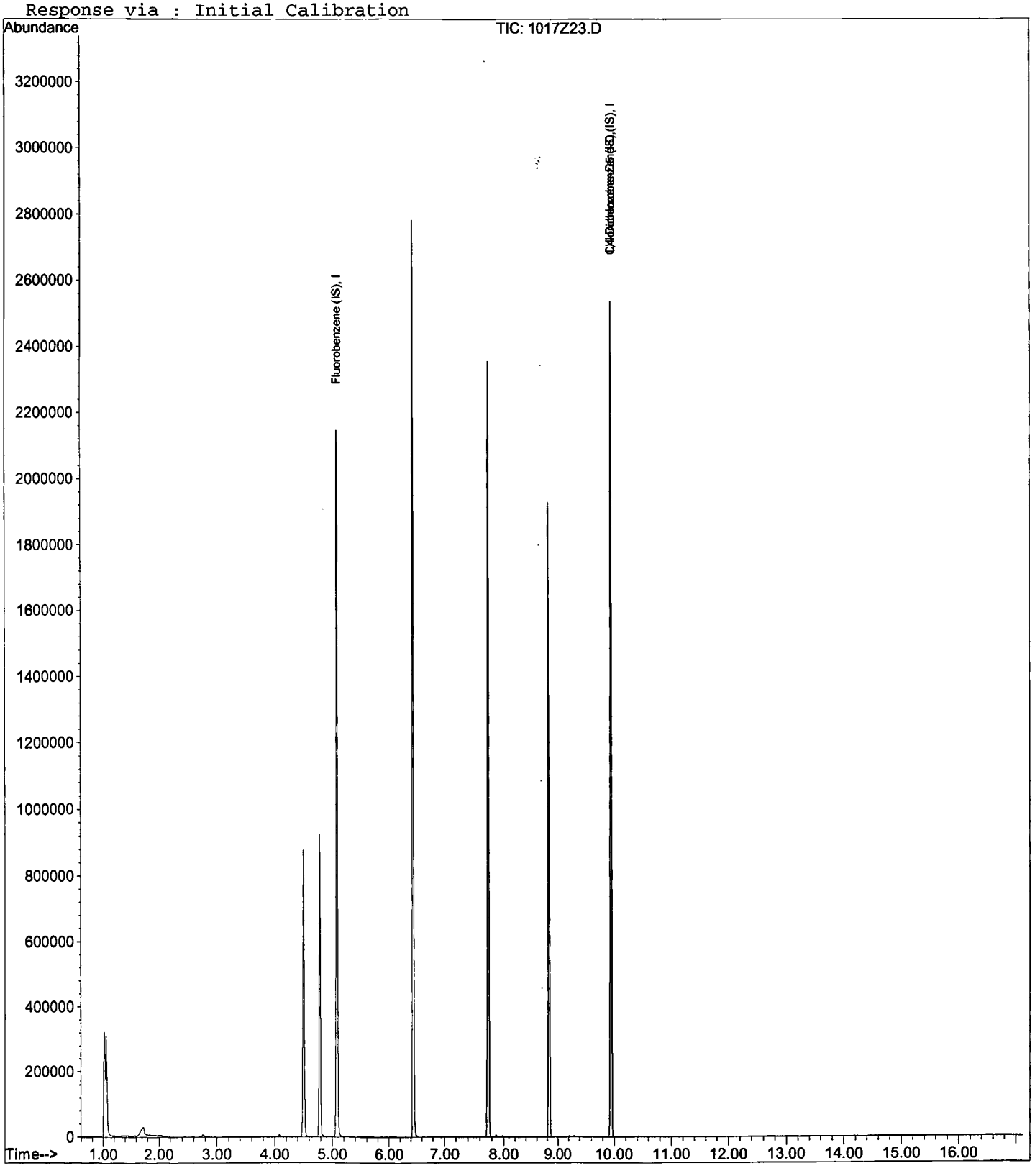
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z23.D
Acq On : 17 Oct 20 18:36
Sample : BA20186W01
Misc :

Vial: 22
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:47 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z24.D Vial: 23
Acq On : 17 Oct 20 18:59 Operator: LP,DG,CH
Sample : BA20187W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:48 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2079443	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2513288	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2513288	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1017Z24.D ZGAS1017.M Tue Nov 03 14:28:13 2020 Page 1

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z24.D Vial: 23
Acq On : 17 Oct 20 18:59 Operator: LP,DG,CH
Sample : BA20187W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:54 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1616625	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1126123	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	611888	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	442493	28.61	ppb	0.00
Spiked Amount 25.000			Recovery = 114.440%			
3) 1,2-DCA-D4(S)	4.78	65	469248	29.12	ppb	0.00
Spiked Amount 25.000			Recovery = 116.488%			
5) Toluene-D8(S)	6.44	98	1527462	27.35	ppb	0.00
Spiked Amount 25.000			Recovery = 109.404%			
6) 4-Bromofluorobenzene(S)	8.83	95	523228	24.97	ppb	0.00
Spiked Amount 25.000			Recovery = 99.900%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

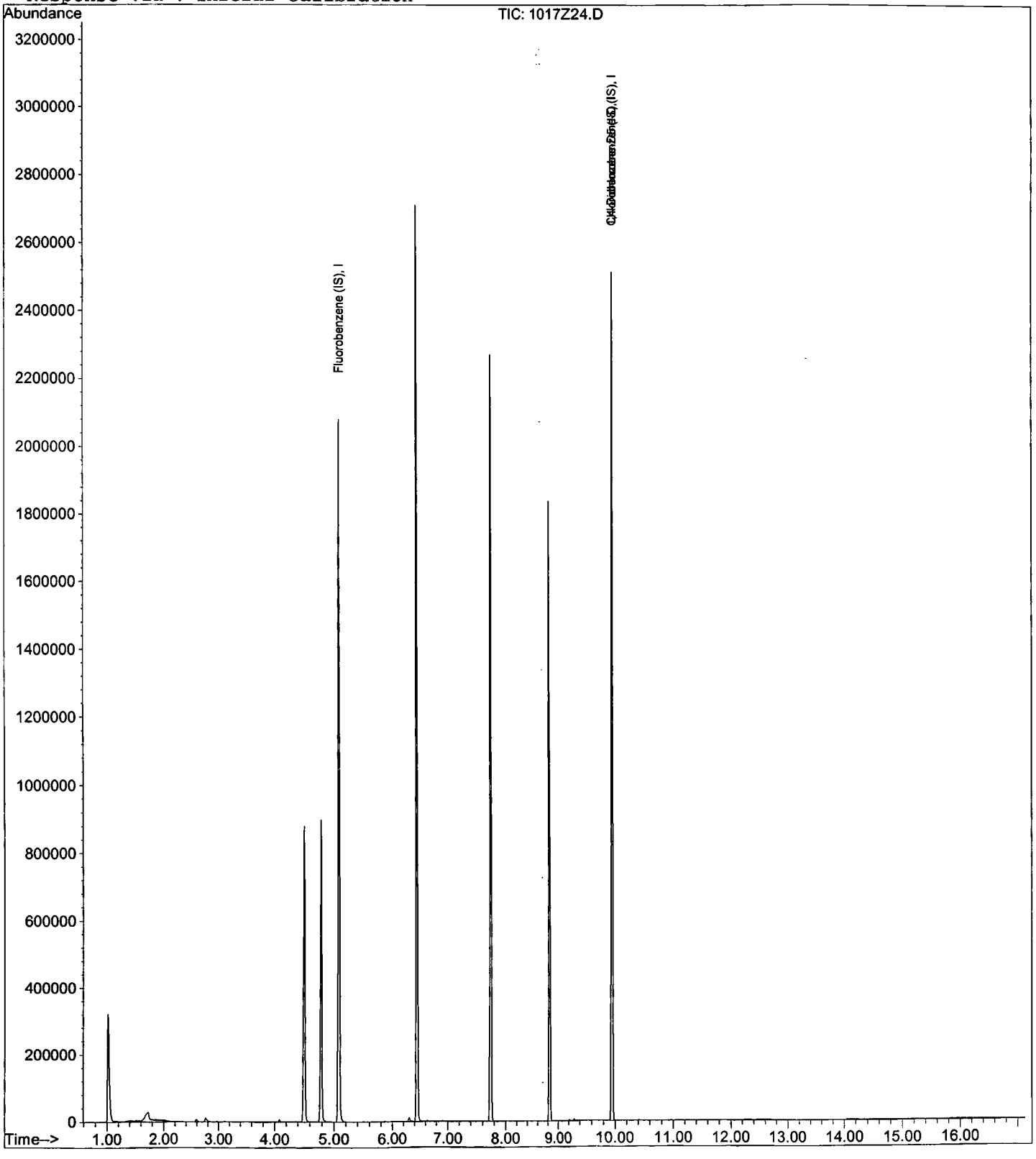
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z24.D
Acq On : 17 Oct 20 18:59
Sample : BA20187W01
Misc :

Vial: 23
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:48 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z25.D Vial: 24
Acq On : 17 Oct 20 19:22 Operator: LP,DG,CH
Sample : BA20188W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:48 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2075150	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2555873	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2555873	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1017Z25.D ZGAS1017.M Tue Nov 03 14:28:14 2020 Page 1

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z25.D Vial: 24
Acq On : 17 Oct 20 19:22 Operator: LP,DG,CH
Sample : BA20188W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:54 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1604335	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1112571	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	601451	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	434925	28.34	ppb	0.00
Spiked Amount 25.000			Recovery = 113.344%			
3) 1,2-DCA-D4(S)	4.78	65	466940	29.20	ppb	0.00
Spiked Amount 25.000			Recovery = 116.804%			
5) Toluene-D8(S)	6.44	98	1497187	27.14	ppb	0.00
Spiked Amount 25.000			Recovery = 108.544%			
6) 4-Bromofluorobenzene(S)	8.83	95	512875	24.79	ppb	0.00
Spiked Amount 25.000			Recovery = 99.156%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

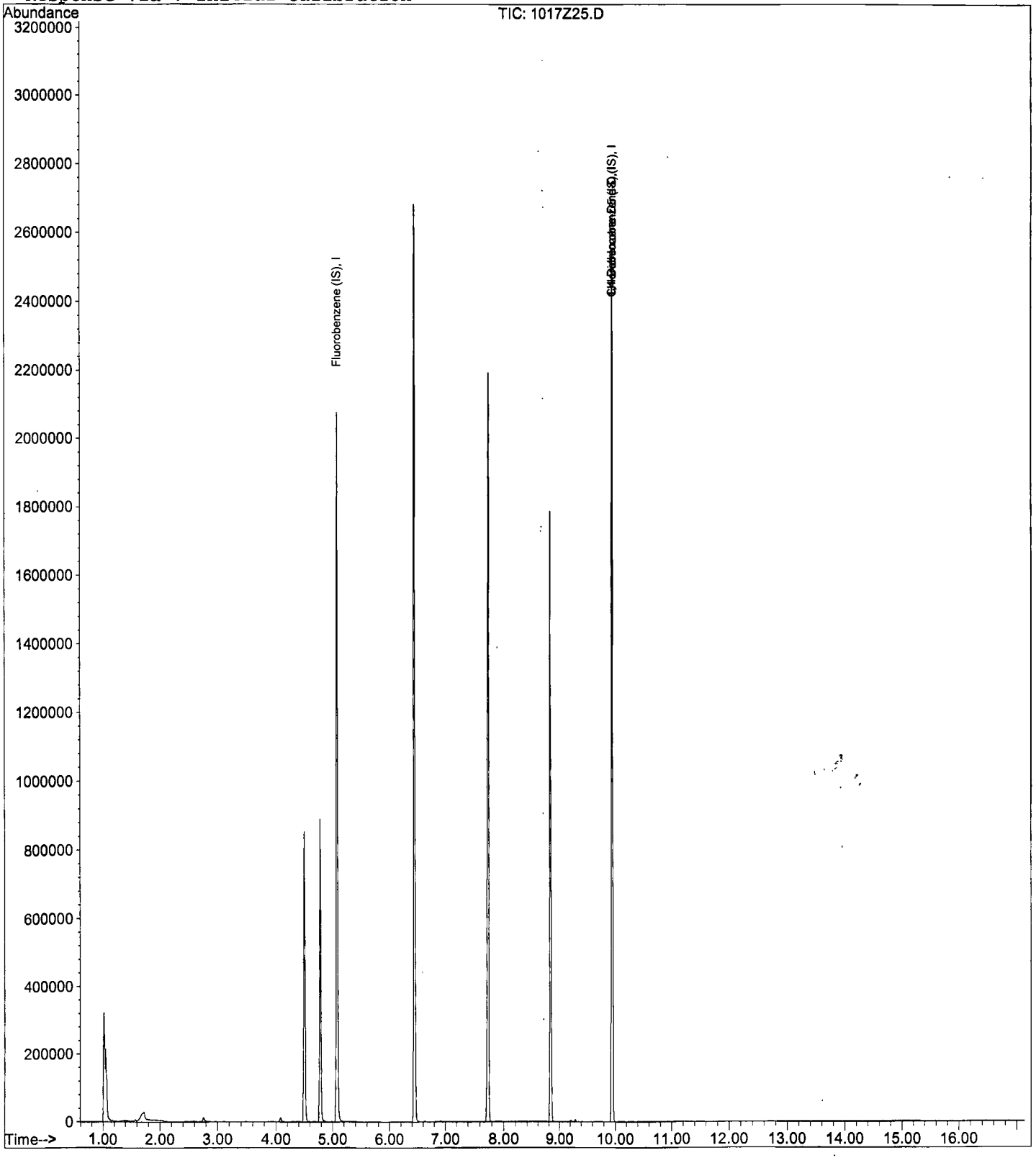
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z25.D
Acq On : 17 Oct 20 19:22
Sample : BA20188W01
Misc :

Vial: 24
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:48 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z26.D Vial: 25
Acq On : 17 Oct 20 19:45 Operator: LP,DG,CH
Sample : BA20189W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:48 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2085358	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2398284	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2398284	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z26.D Vial: 25
Acq On : 17 Oct 20 19:45 Operator: LP,DG,CH
Sample : BA20189W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:54 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1564683	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1083939	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	583909	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	428104	28.60	ppb	0.00
Spiked Amount 25.000			Recovery =	114.392%		
3) 1,2-DCA-D4(S)	4.78	65	452006	28.98	ppb	0.00
Spiked Amount 25.000			Recovery =	115.932%		
5) Toluene-D8(S)	6.44	98	1470185	27.35	ppb	0.00
Spiked Amount 25.000			Recovery =	109.400%		
6) 4-Bromofluorobenzene(S)	8.83	95	503832	24.98	ppb	0.00
Spiked Amount 25.000			Recovery =	99.940%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

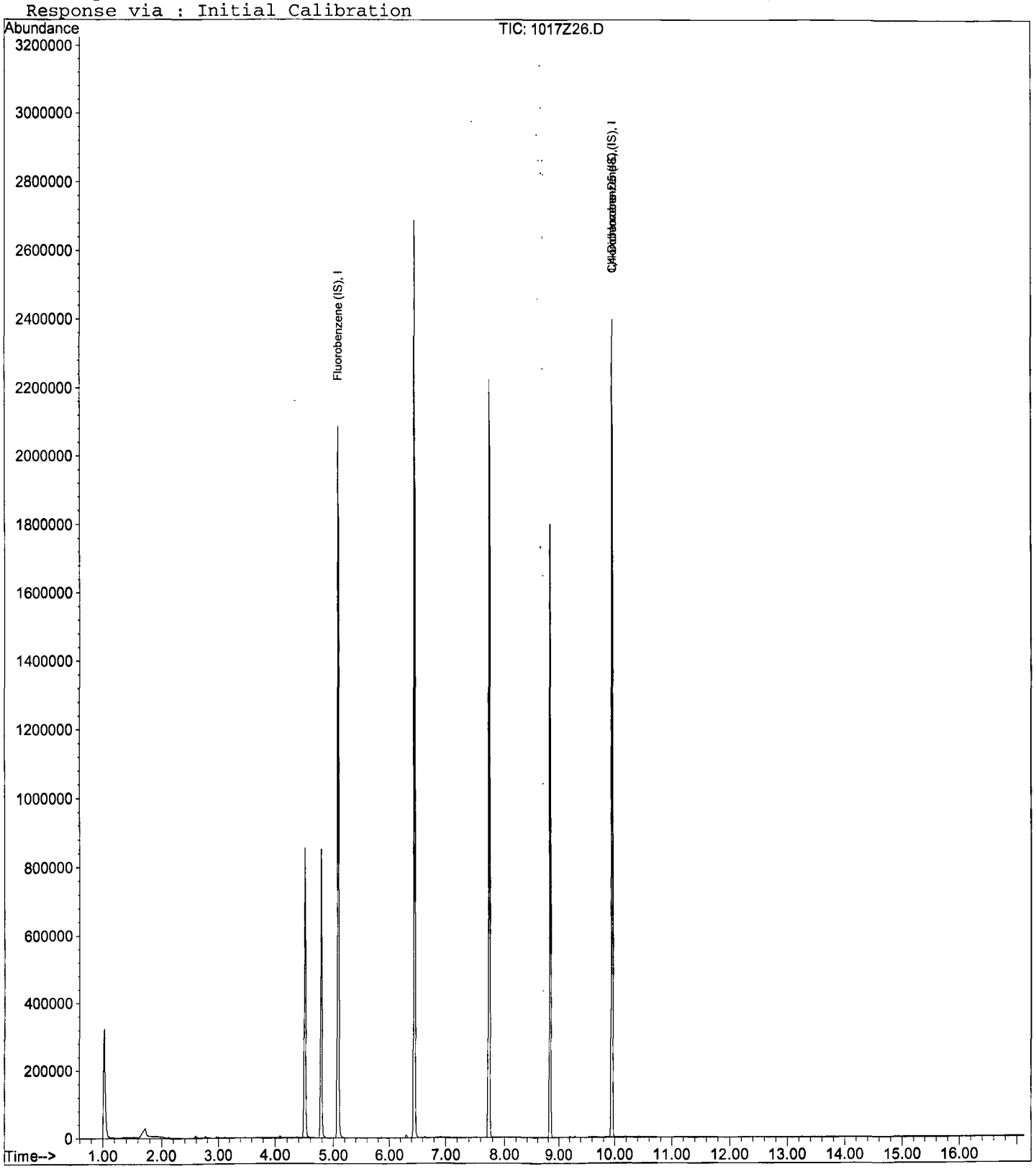
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z26.D
Acq On : 17 Oct 20 19:45
Sample : BA20189W01
Misc :

Vial: 25
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:48 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z27.D Vial: 26
Acq On : 17 Oct 20 20:08 Operator: LP,DG,CH
Sample : BA20190W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:48 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2040040	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2399543	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2399543	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1017Z27.D ZGAS1017.M Tue Nov 03 14:28:17 2020 Page 1

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z27.D Vial: 26
Acq On : 17 Oct 20 20:08 Operator: LP,DG,CH
Sample : BA20190W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:54 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1536221	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.74	117	1069653	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	579565	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	420432	28.61	ppb	0.00
Spiked Amount 25.000			Recovery = 114.424%			
3) 1,2-DCA-D4(S)	4.78	65	452853	29.58	ppb	0.00
Spiked Amount 25.000			Recovery = 118.300%			
5) Toluene-D8(S)	6.45	98	1434255	27.04	ppb	0.00
Spiked Amount 25.000			Recovery = 108.152%			
6) 4-Bromofluorobenzene(S)	8.83	95	496056	24.93	ppb	0.00
Spiked Amount 25.000			Recovery = 99.720%			

Target Compounds Qvalue

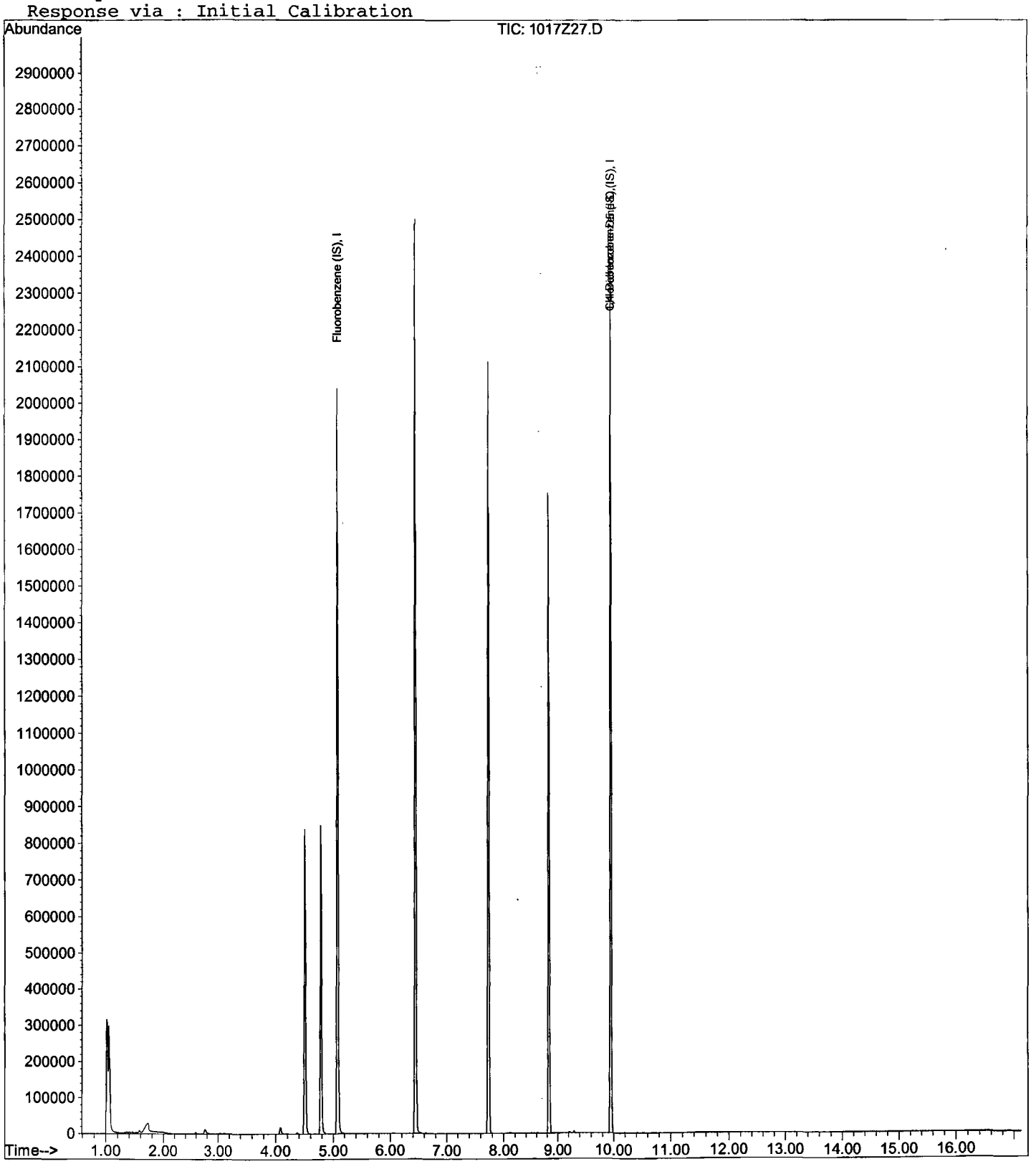
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z27.D Vial: 26
Acq On : 17 Oct 20 20:08 Operator: LP,DG,CH
Sample : BA20190W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:48 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z19.D Vial: 18
Acq On : 17 Oct 20 17:03 Operator: LP,DG,CH
Sample : 201017A BLK Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 13:54 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2518351	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2891310	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2891310	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z19.D Vial: 18
Acq On : 17 Oct 20 17:03 Operator: LP,DG,CH
Sample : 201017A BLK Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 14:44 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1926340	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1329700	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	724017	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	508394	27.59	ppb	0.00
Spiked Amount 25.000			Recovery =	110.344%		
3) 1,2-DCA-D4(S)	4.78	65	533985	27.81	ppb	0.00
Spiked Amount 25.000			Recovery =	111.244%		
5) Toluene-D8(S)	6.44	98	1802692	27.34	ppb	0.00
Spiked Amount 25.000			Recovery =	109.352%		
6) 4-Bromofluorobenzene(S)	8.83	95	627674	25.35	ppb	0.00
Spiked Amount 25.000			Recovery =	101.412%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

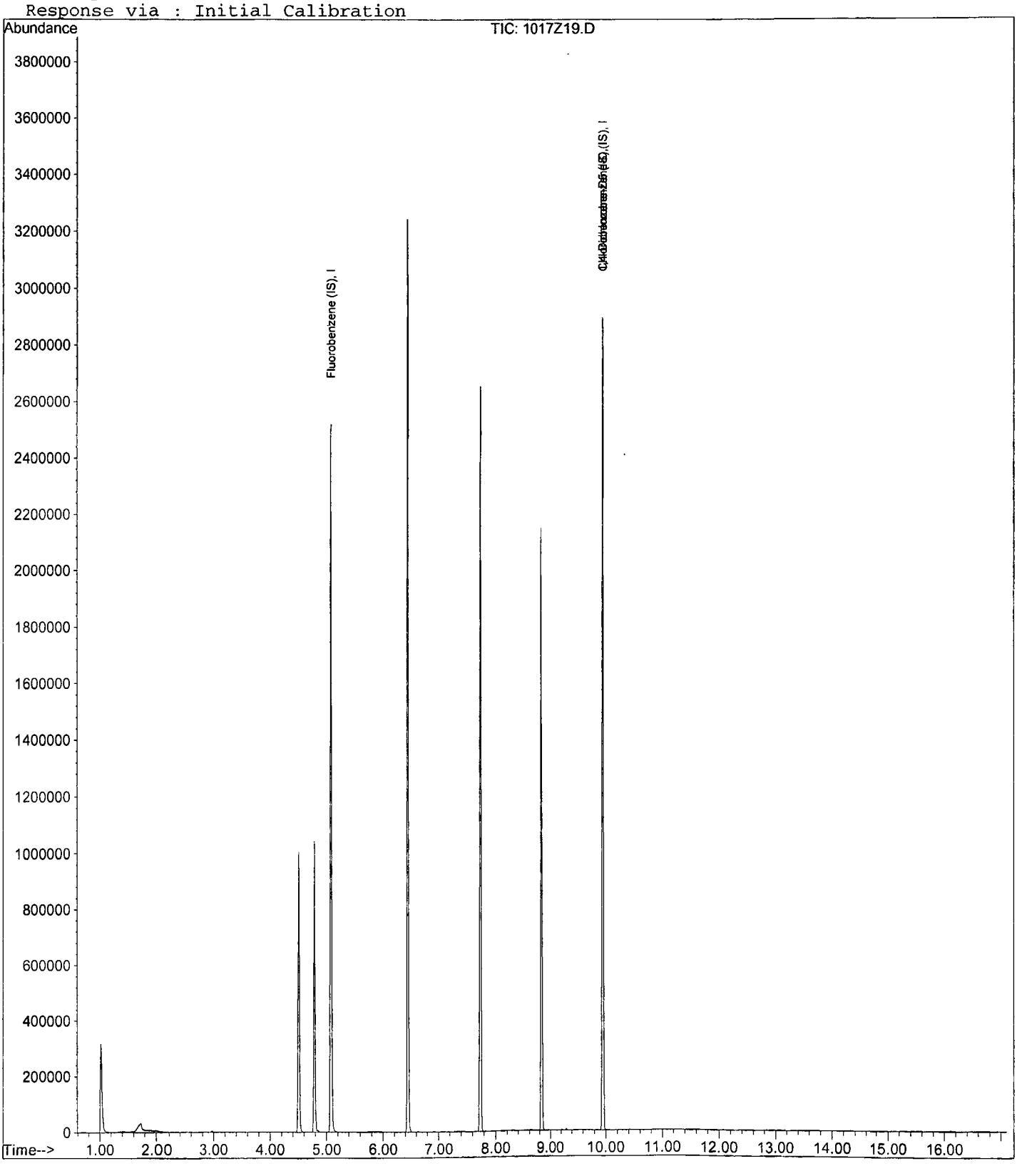
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z19.D
Acq On : 17 Oct 20 17:03
Sample : 201017A BLK
Misc :

Vial: 18
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 13:54 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z17.D
Acq On : 17 Oct 20 16:17
Sample : 201017A LCS 300ug/L
Misc :

Vial: 16
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:48 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2643208	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	3120941	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	3120941	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	32370391m	297.06	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z17.D Vial: 16
Acq On : 17 Oct 20 16:17 Operator: LP,DG,CH
Sample : 201017A LCS 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 14:44 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2033072	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1408915	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	758390	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	514255	26.44	ppb	0.00
Spiked Amount 25.000			Recovery =	105.756%		
3) 1,2-DCA-D4(S)	4.78	65	542978	26.80	ppb	0.00
Spiked Amount 25.000			Recovery =	107.180%		
5) Toluene-D8(S)	6.44	98	1902233	27.23	ppb	0.00
Spiked Amount 25.000			Recovery =	108.900%		
6) 4-Bromofluorobenzene(S)	8.83	95	661965	25.24	ppb	0.00
Spiked Amount 25.000			Recovery =	100.964%		

Target Compounds Qvalue

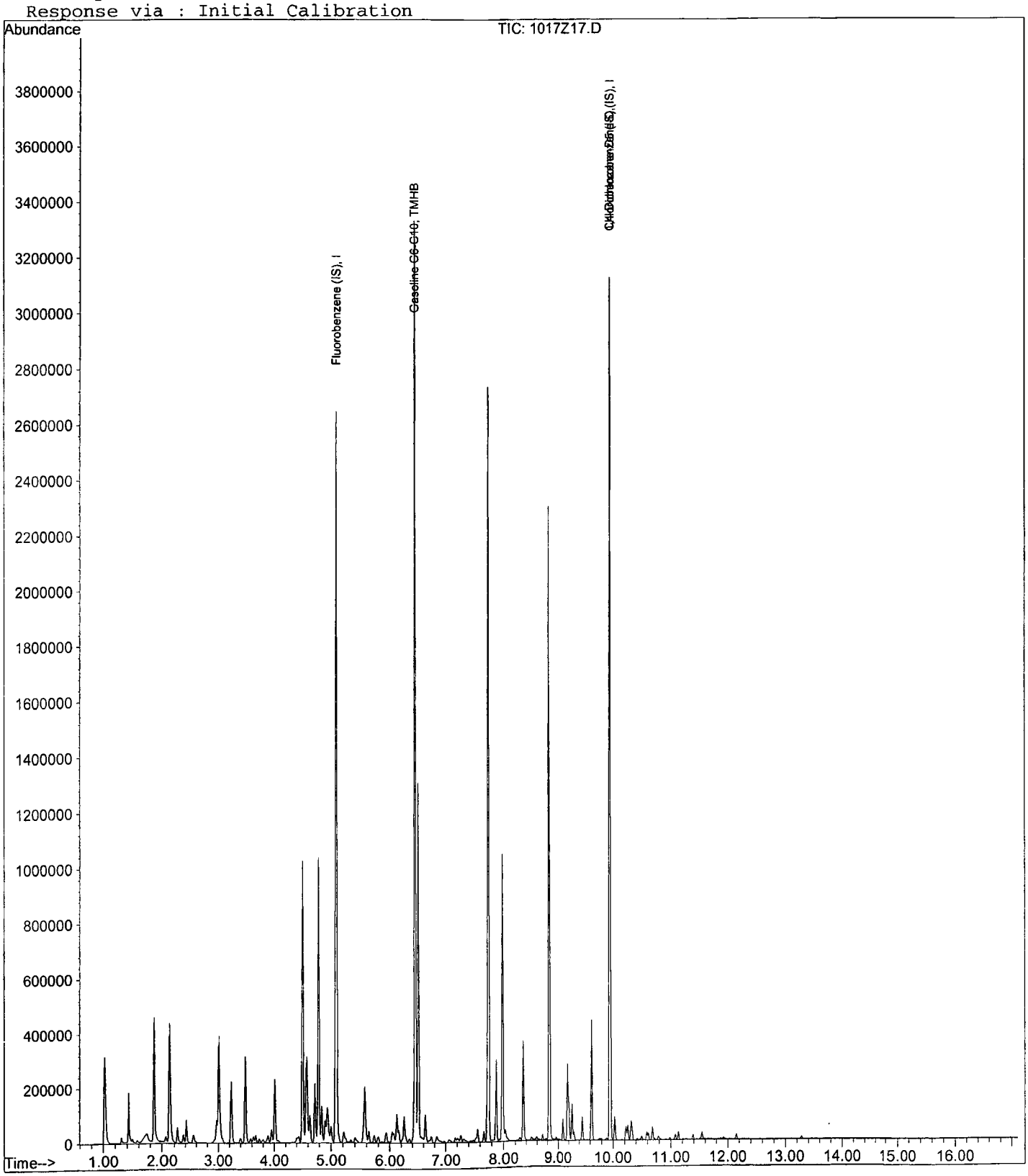
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z17.D Vial: 16
Acq On : 17 Oct 20 16:17 Operator: LP,DG,CH
Sample : 201017A LCS 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:48 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z18.D Vial: 17
Acq On : 17 Oct 20 16:40 Operator: LP,DG,CH
Sample : 201017A LCSD 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:49 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2549463	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	3017367	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	3017367	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	28893316m	245.12	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z18.D Vial: 17
Acq On : 17 Oct 20 16:40 Operator: LP,DG,CH
Sample : 201017A LCSD 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 14:44 2020 Quant Results File: Z1016SUR.RES

Quant Method : M:\ZEUS\DATA\201016\Z1016SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sat Oct 17 09:49:51 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1963258	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1360127	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	749402	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	510681	27.19	ppb	0.00
Spiked Amount 25.000			Recovery =	108.756%		
3) 1,2-DCA-D4(S)	4.78	65	530998	27.14	ppb	0.00
Spiked Amount 25.000			Recovery =	108.544%		
5) Toluene-D8(S)	6.44	98	1834104	27.19	ppb	0.00
Spiked Amount 25.000			Recovery =	108.768%		
6) 4-Bromofluorobenzene(S)	8.83	95	641183	25.32	ppb	0.00
Spiked Amount 25.000			Recovery =	101.284%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

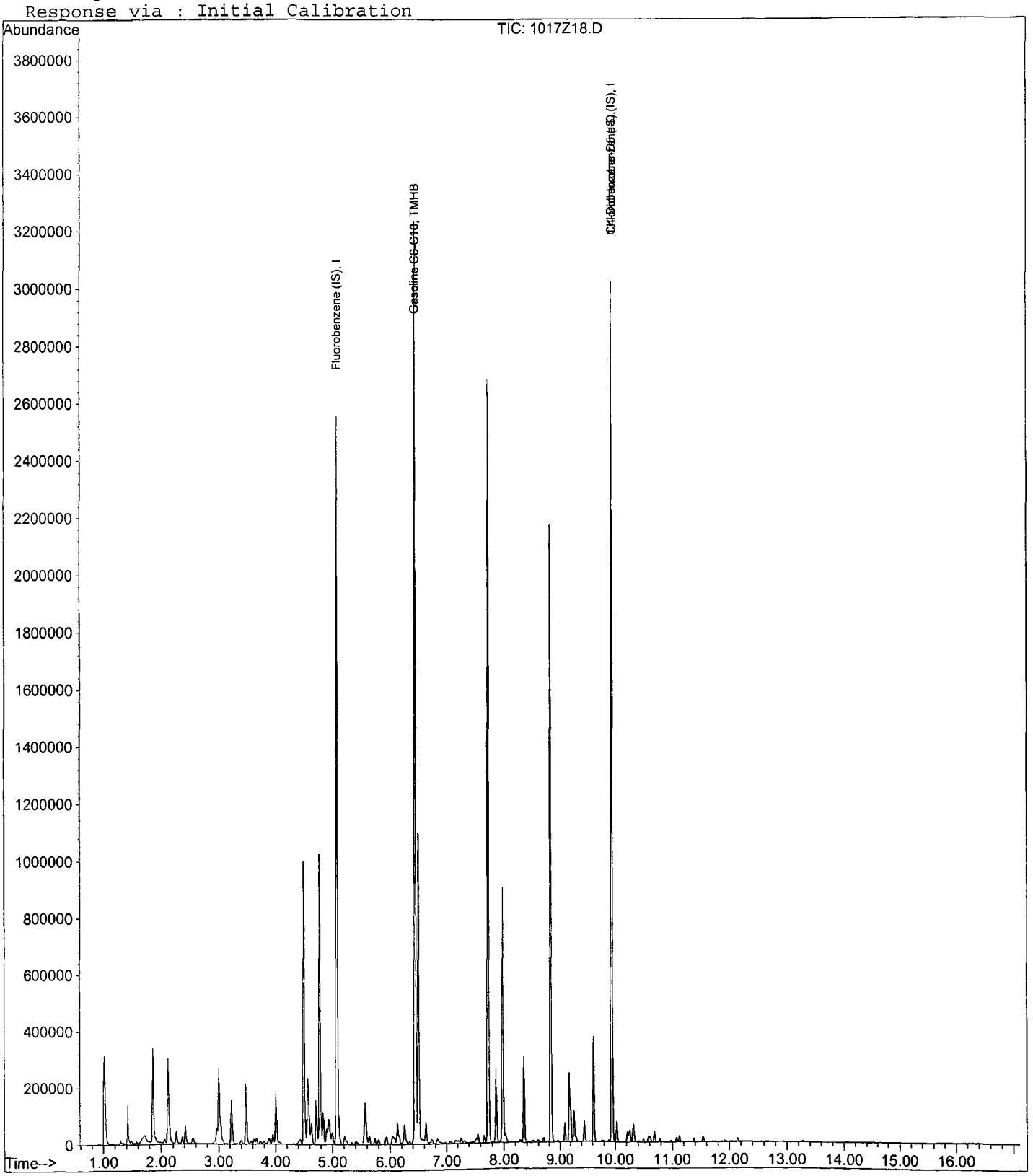
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z18.D
Acq On : 17 Oct 20 16:40
Sample : 201017A LCSD 300ug/L
Misc :

Vial: 17
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:49 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Injection Log

Directory: M:\ZEUS\DATA\201016\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	1016Z30.D	1	0.3ug/L VOC STD 10/16/20		16 Oct 20 16:48
2	5	1016Z31.D	1	0.5ug/L VOC STD 10/16/20		16 Oct 20 17:11
3	6	1016Z32.D	1	1ug/L VOC STD 10/16/20		16 Oct 20 17:34
4	7	1016Z33.D	1	2ug/L VOC STD 10/16/20		16 Oct 20 17:57
5	8	1016Z34.D	1	5ug/L VOC STD 10/16/20		16 Oct 20 18:21
6	9	1016Z35.D	1	10ug/L VOC STD 10/16/20		16 Oct 20 18:44
7	10	1016Z36.D	1	20ug/L VOC STD 10/16/20		16 Oct 20 19:07
8	11	1016Z37.D	1	40ug/L VOC STD 10/16/20		16 Oct 20 19:30
9	12	1016Z38.D	1	100ug/L VOC STD 10/16/20		16 Oct 20 19:53
10	3	1017Z04.D	1	20ug/L GAS STD 10/16/20		17 Oct 20 11:16
11	4	1017Z05.D	1	50ug/L GAS STD 10/16/20		17 Oct 20 11:39
12	5	1017Z06.D	1	100ug/L GAS STD 10/16/20		17 Oct 20 12:02
13	6	1017Z07.D	1	300ug/L GAS STD 10/16/20		17 Oct 20 12:25
14	7	1017Z08.D	1	600ug/L GAS STD 10/16/20		17 Oct 20 12:48
15	8	1017Z09.D	1	800ug/L GAS STD 10/16/20		17 Oct 20 13:11
16	9	1017Z10.D	1	1000ug/L GAS STD 10/16/20		17 Oct 20 13:35
17	10	1017Z11.D	1	(SS) 300ug/L GAS STD 10/16/20		17 Oct 20 13:58
18	15	1017Z16.D	1	201017A CCV 300ug/L		17 Oct 20 15:53
19	16	1017Z17.D	1	201017A LCS 300ug/L		17 Oct 20 16:17
20	17	1017Z18.D	1	201017A LCSD 300ug/L		17 Oct 20 16:40
21	18	1017Z19.D	1	201017A BLK		17 Oct 20 17:03
22	19	1017Z20.D	1	BA20183W01		17 Oct 20 17:26
23	20	1017Z21.D	1	BA20184W01		17 Oct 20 17:49
24	21	1017Z22.D	1	BA20185W01		17 Oct 20 18:13
25	22	1017Z23.D	1	BA20186W01		17 Oct 20 18:36
26	23	1017Z24.D	1	BA20187W01		17 Oct 20 18:59
27	24	1017Z25.D	1	BA20188W01		17 Oct 20 19:22
28	25	1017Z26.D	1	BA20189W01		17 Oct 20 19:45
29	26	1017Z27.D	1	BA20190W01		17 Oct 20 20:08
30	44	1017Z45.D	1	Ending CCV 300ug/L 10/17/20		18 Oct 20 03:06

ORGANICS

Calibration Data

RSK 175
RSK 175

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 09/14/20
Matrix: Instrument: 7890
Initials: CD

0914R07.D 0914R08.D 0914R09.D 0914R10.D 0914R11.D 0914R12.D 0914R13.D

		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q
1	ATML	Methane	31176	26056	25996	23232	23337	25358	24640				25685	10	ATM	1.000	
2	ATML	Ethane	21362	19532	19181	17082	17815	18853	18215				18863	7.3	ATM	1.000	
3	ATML	Ethene	16420	15064	15131	13510	13711	15061	14685				14797	6.6	ATM	1.000	
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35																	

0.696467

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R07.D Vial: 1
Acq On : 14 Sep 20 12:06 Operator: CD
Sample : RSK STD1 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

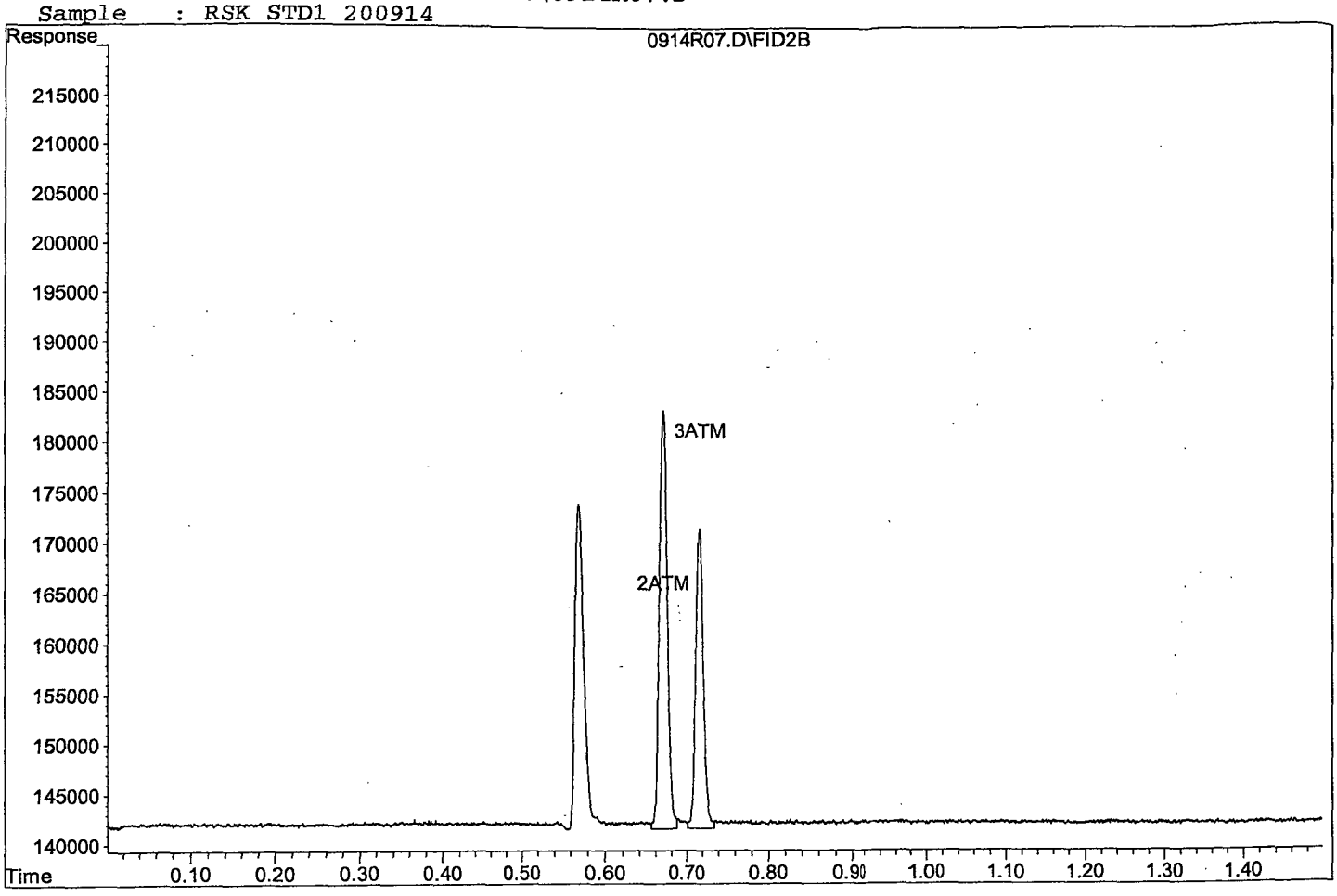
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	41762	102628.492	ppb
3) ATM Ethene	0.72	29966	4.139	ppb
Target Compounds				
1) ATM Methane	0.57	32423	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R07.D
Sample : RSK STD1 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R08.D Vial: 1
Acq On : 14 Sep 20 12:10 Operator: CD
Sample : RSK STD2 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

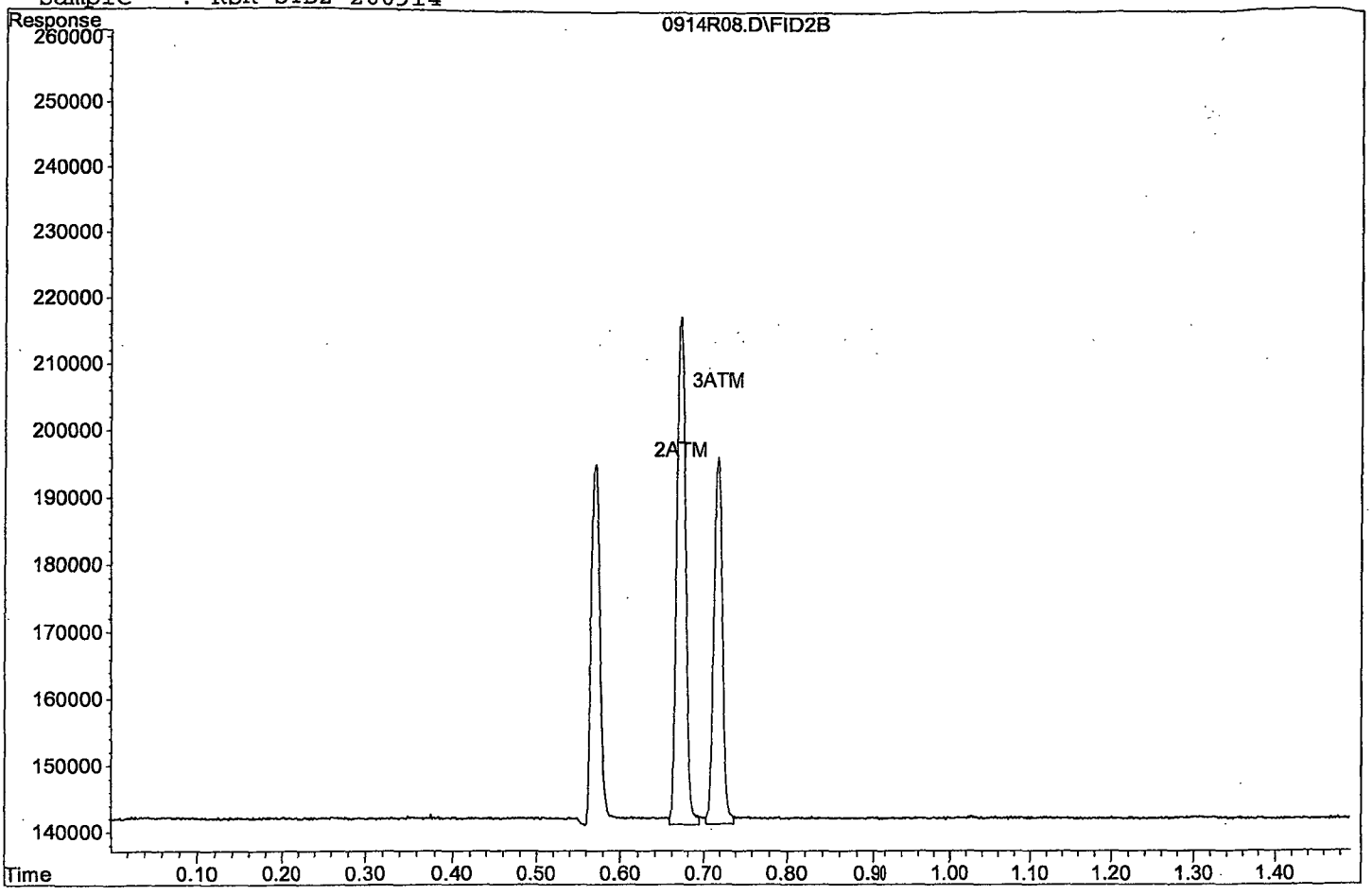
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	76271	190289.144	ppb
3) ATM Ethene	0.72	54983	7.686	ppb
Target Compounds				
1) ATM Methane	0.57	54196	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R08.D
Sample : RSK STD2 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R09.D Vial: 1
Acq On : 14 Sep 20 12:13 Operator: CD
Sample : RSK STD3 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

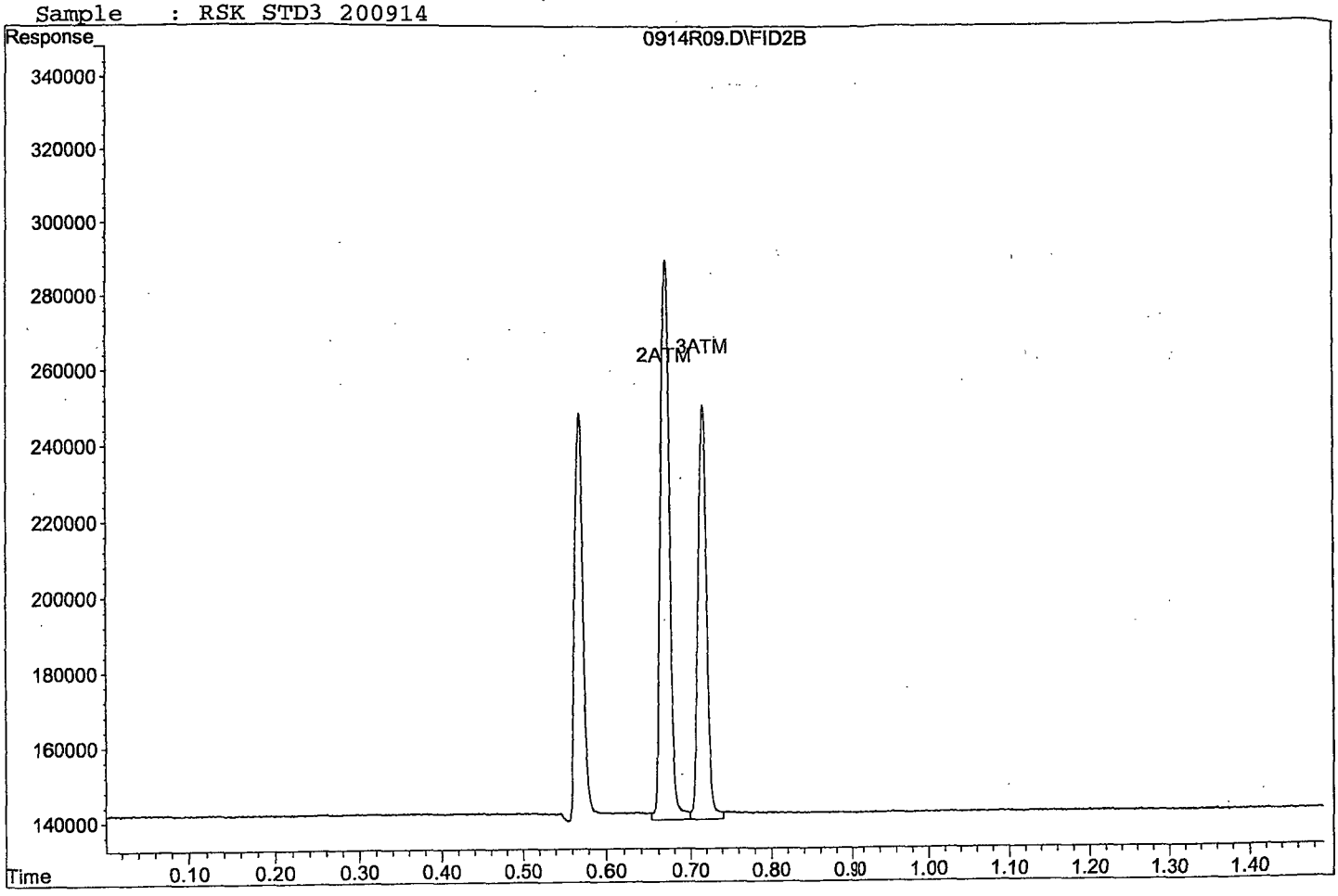
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
2) ATM Ethane	0.67	149612	376595.524 ppb
3) ATM Ethene	0.72	110455	15.551 ppb
Target Compounds			
1) ATM Methane	0.57	108403	N.D. ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R09.D
Sample : RSK STD3 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R10.D Vial: 1
Acq On : 14 Sep 20 12:18 Operator: CD
Sample : RSK STD4 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

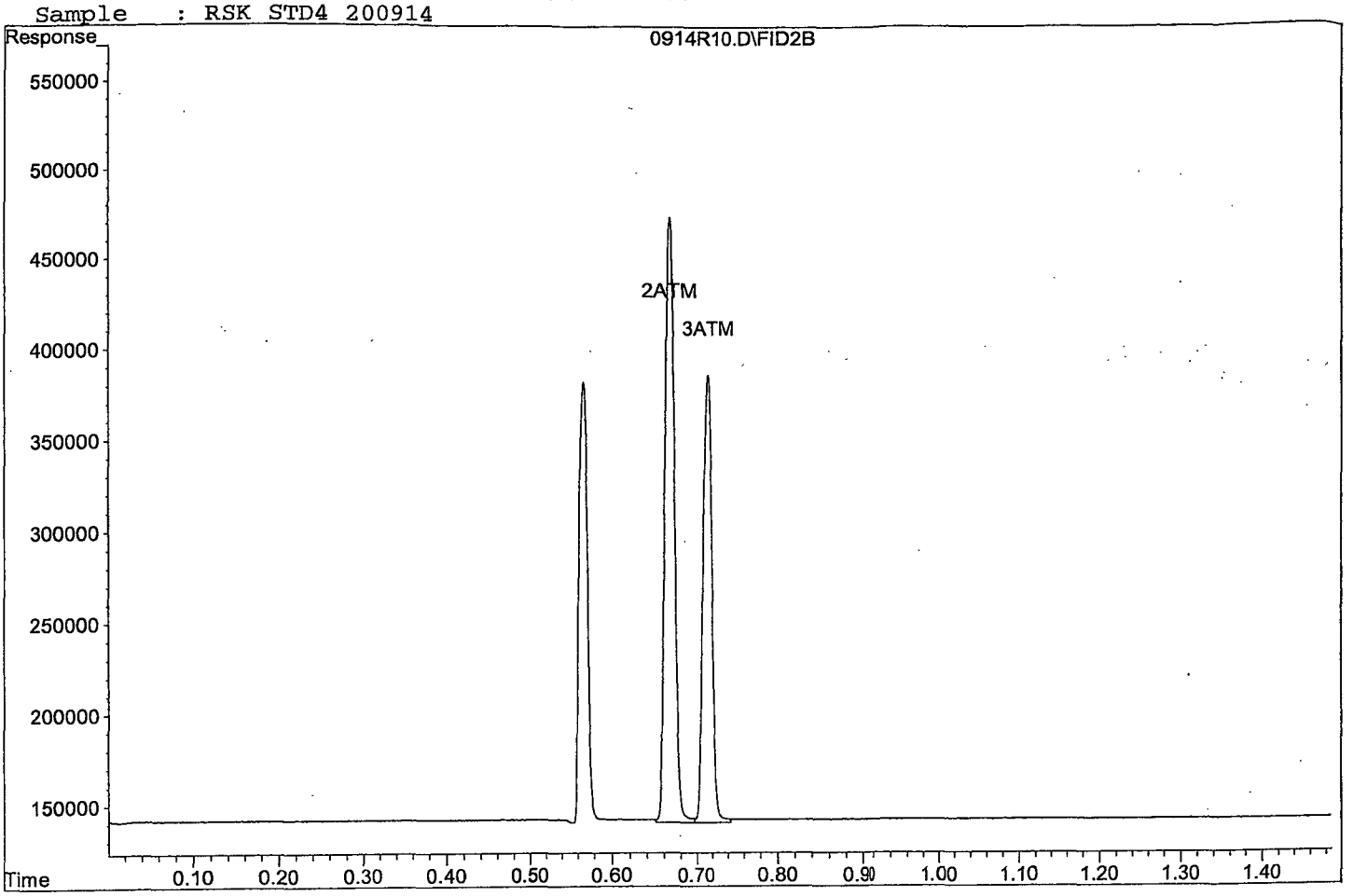
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
2) ATM Ethane	0.67	333873	844667.853 ppb
3) ATM Ethene	0.71	246286	34.810 ppb
Target Compounds			
1) ATM Methane	0.57	242197	N.D. ppb

Quantitation Report

Data File: G:\ROCKY\DATA\200914RS\0914R10.D
Sample : RSK STD4 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R11.D Vial: 1
Acq On : 14 Sep 20 12:21 Operator: CD
Sample : RSK STD5 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

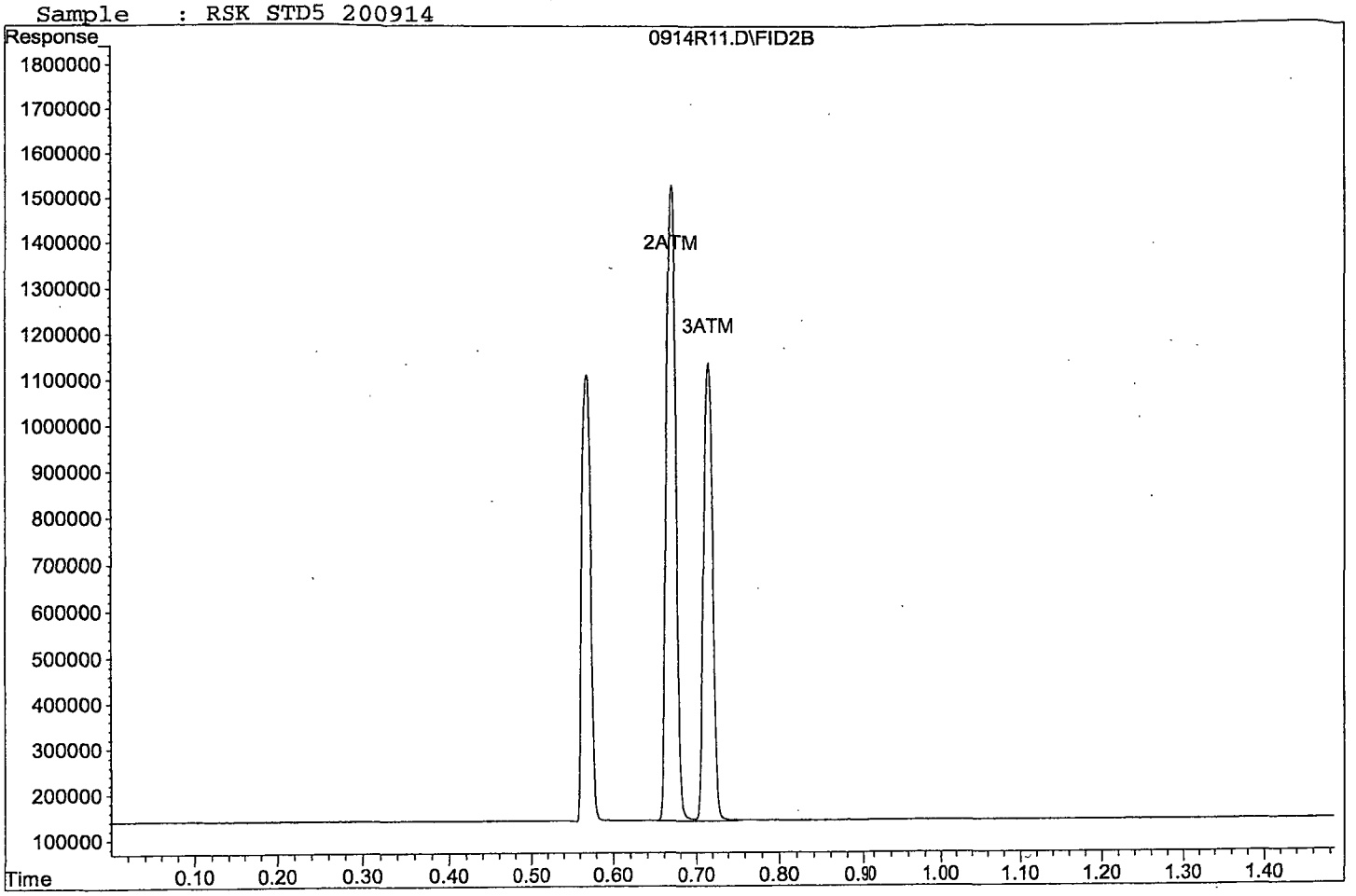
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
2) ATM Ethane	0.67	1392673	3534302.847 ppb
3) ATM Ethene	0.71	999836	141.654 ppb
Target Compounds			
1) ATM Methane	0.57	973152	N.D. ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R11.D
Sample : RSK STD5 200914



Quantitation Report (Not Reviewed)

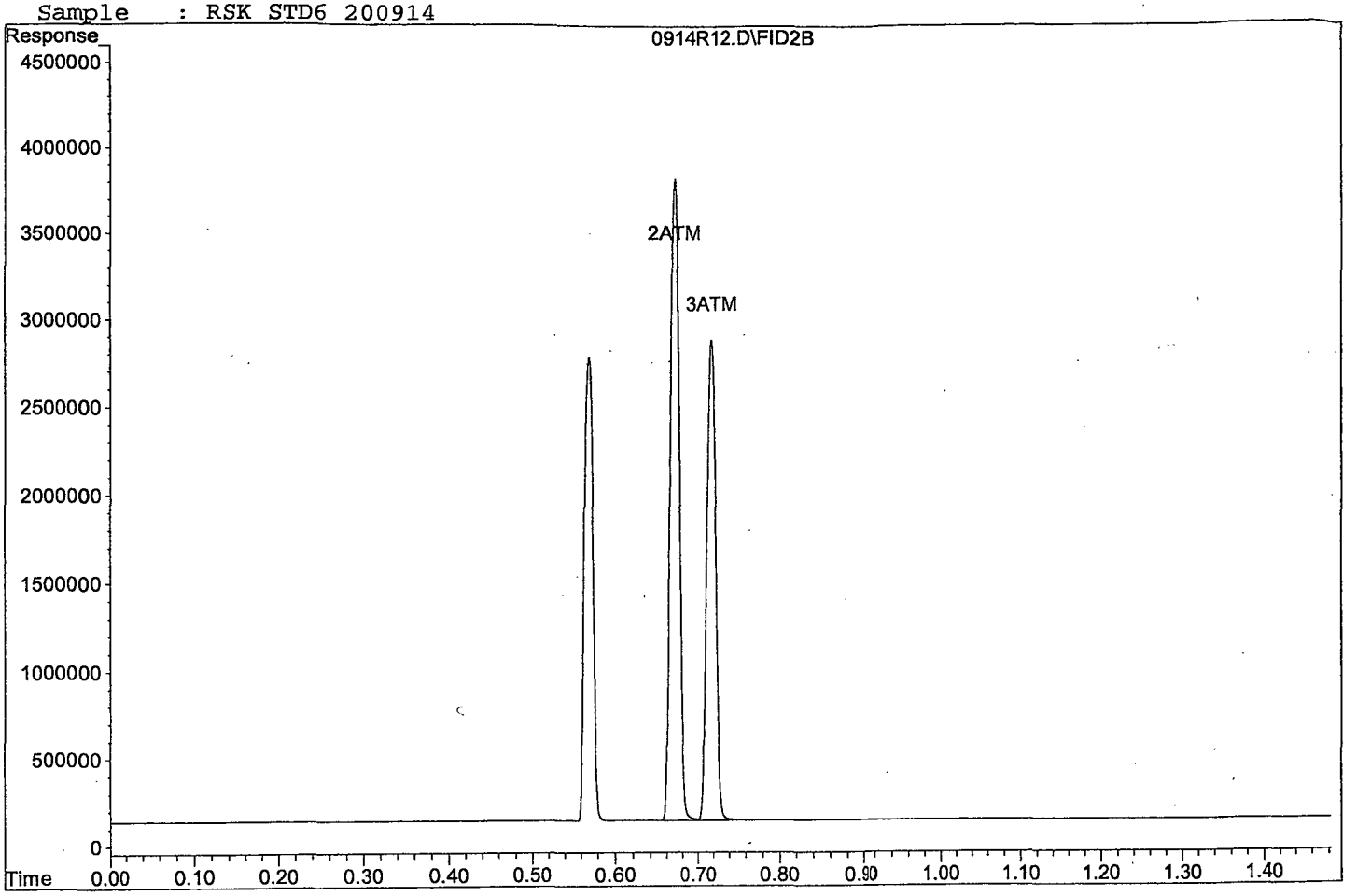
Data File : G:\ROCKY\DATA\200914RS\0914R12.D Vial: 1
Acq On : 14 Sep 20 12:25 Operator: CD
Sample : RSK STD6 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
2) ATM Ethane	0.67	3684845	9357031.284 ppb
3) ATM Ethene	0.72	2745673	389.192 ppb
Target Compounds			
1) ATM Methane	0.57	2643568	N.D. ppb

Data File: G:\ROCKY\DATA\200914RS\0914R12.D
Sample : RSK STD6 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R13.D Vial: 1
Acq On : 14 Sep 20 12:28 Operator: CD
Sample : RSK STD7 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

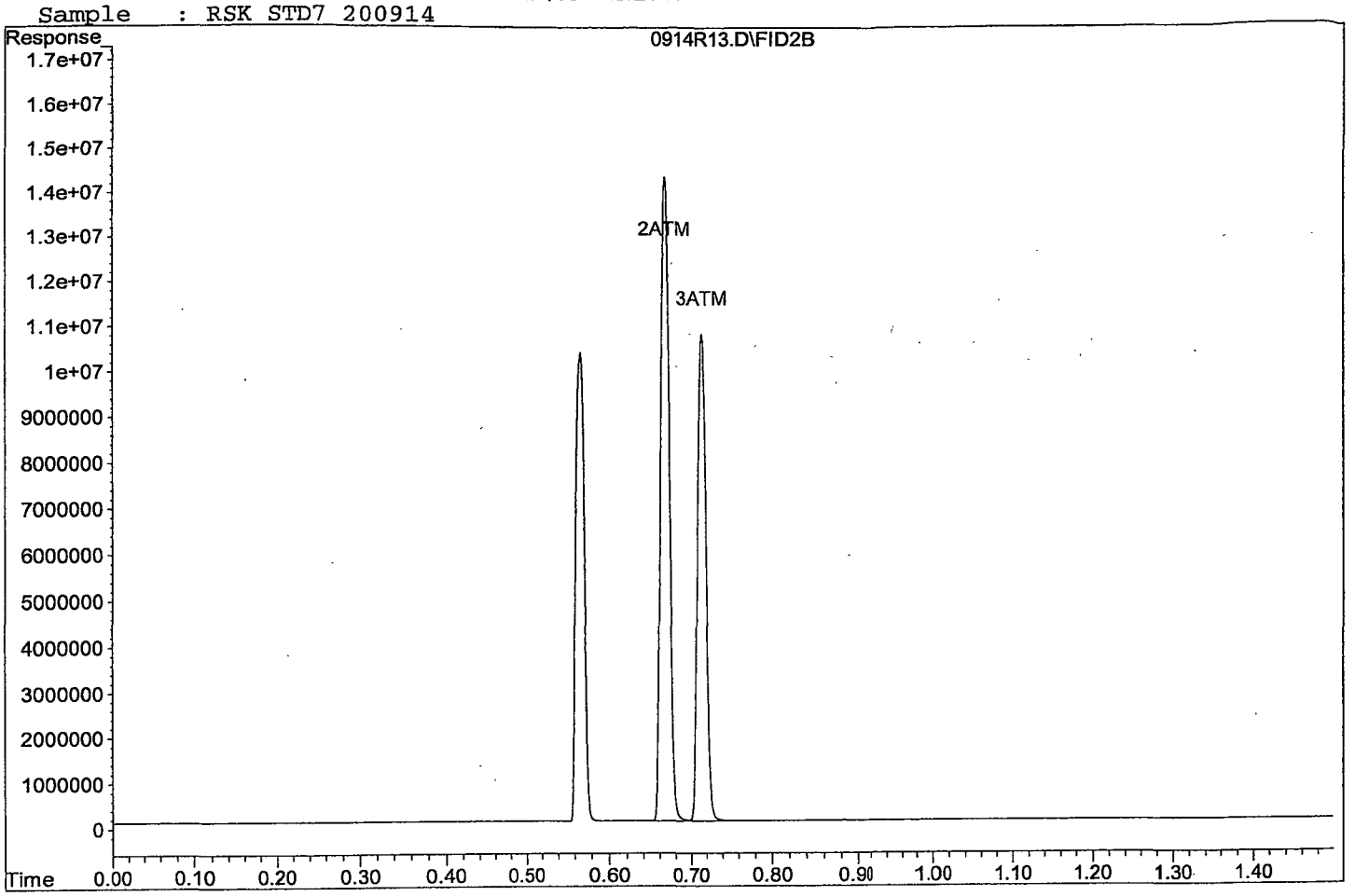
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	14239394	36168407.278	ppb
3) ATM Ethene	0.71	10708428	1518.210	ppb
Target Compounds				
1) ATM Methane	0.57	10274710	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File: G:\ROCKY\DATA\200914RS\0914R13.D
Sample : RSK STD7 200914



RSK 175
RSK 175

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 09/14/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 0914R14.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	25685	23394	8.9	ATML	5.2
2	ATML	Ethane	18863	17545	7.0	ATML	4.5
3	ATML	Ethene	14798	13693	7.5	ATML	6.4
4							
5							
6							
7							
8							
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39							
40							
		Average			7.8		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R14.D Vial: 1
Acq On : 14 Sep 20 12:32 Operator: CD
Sample : SS RSK STD5 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:48 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

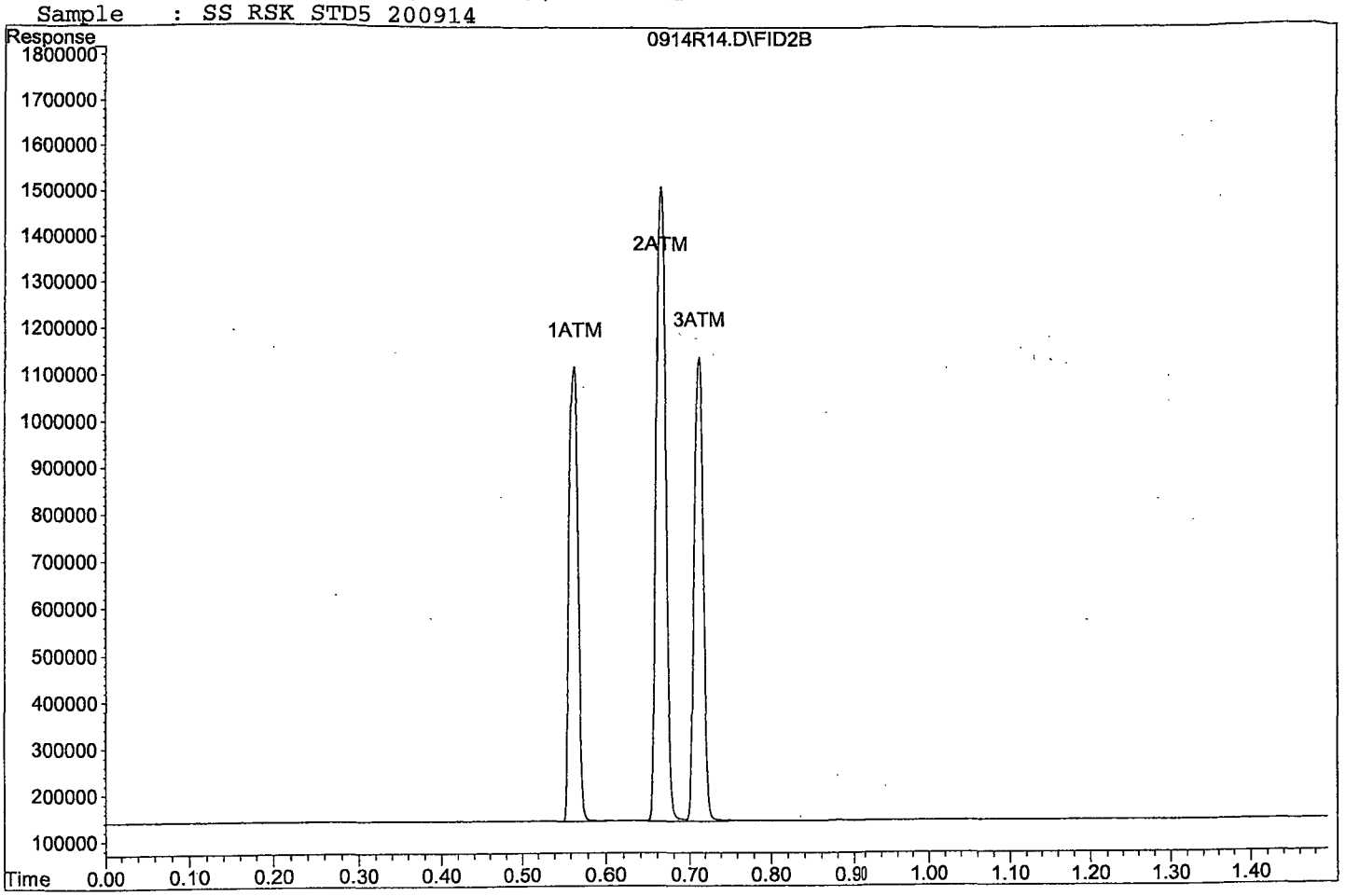
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

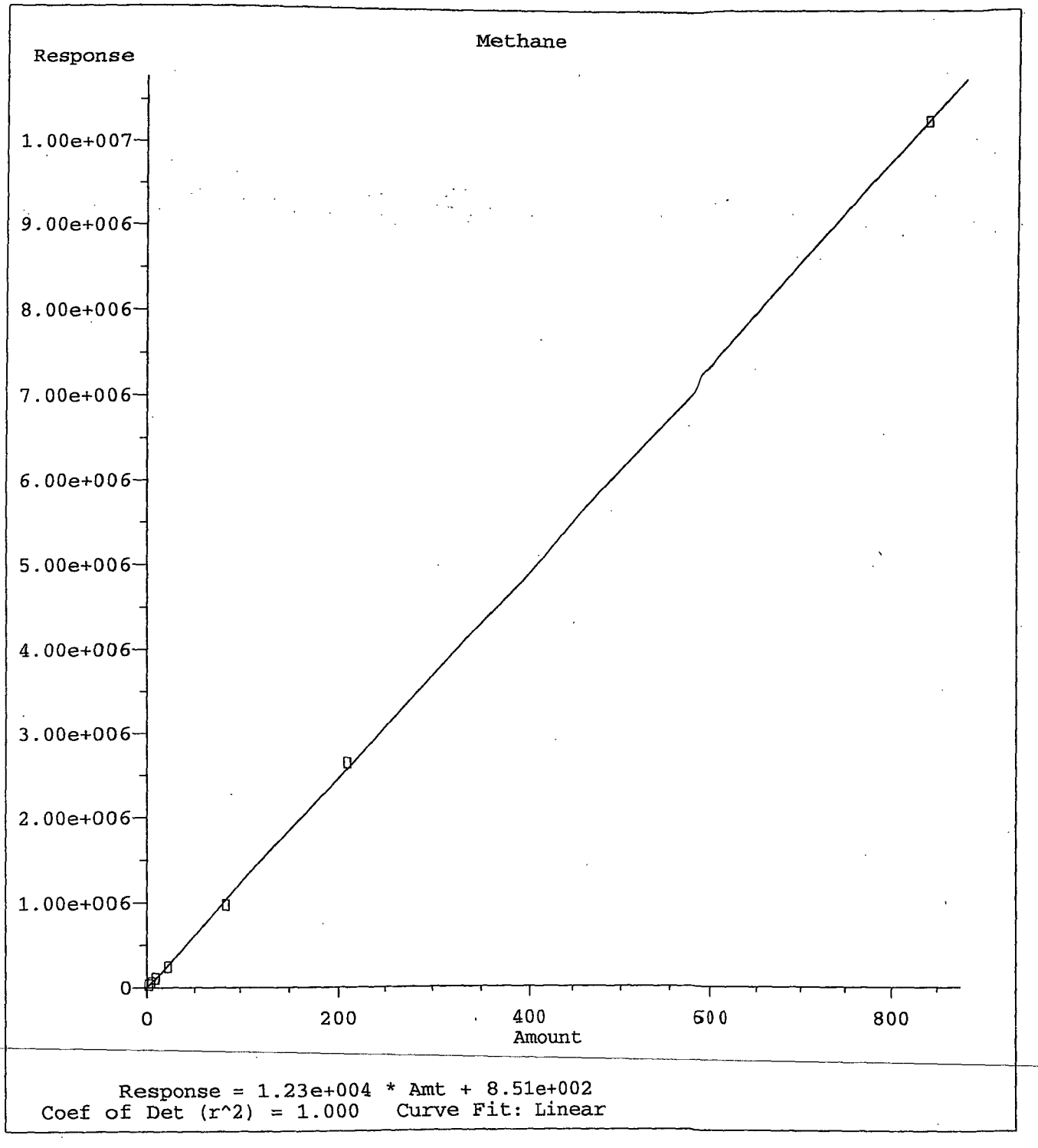
Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.56	975516	79.029 ppb
2) ATM Ethane	0.66	1371570	149.323 ppb
3) ATM Ethene	0.71	998467	136.525 ppb

Target Compounds

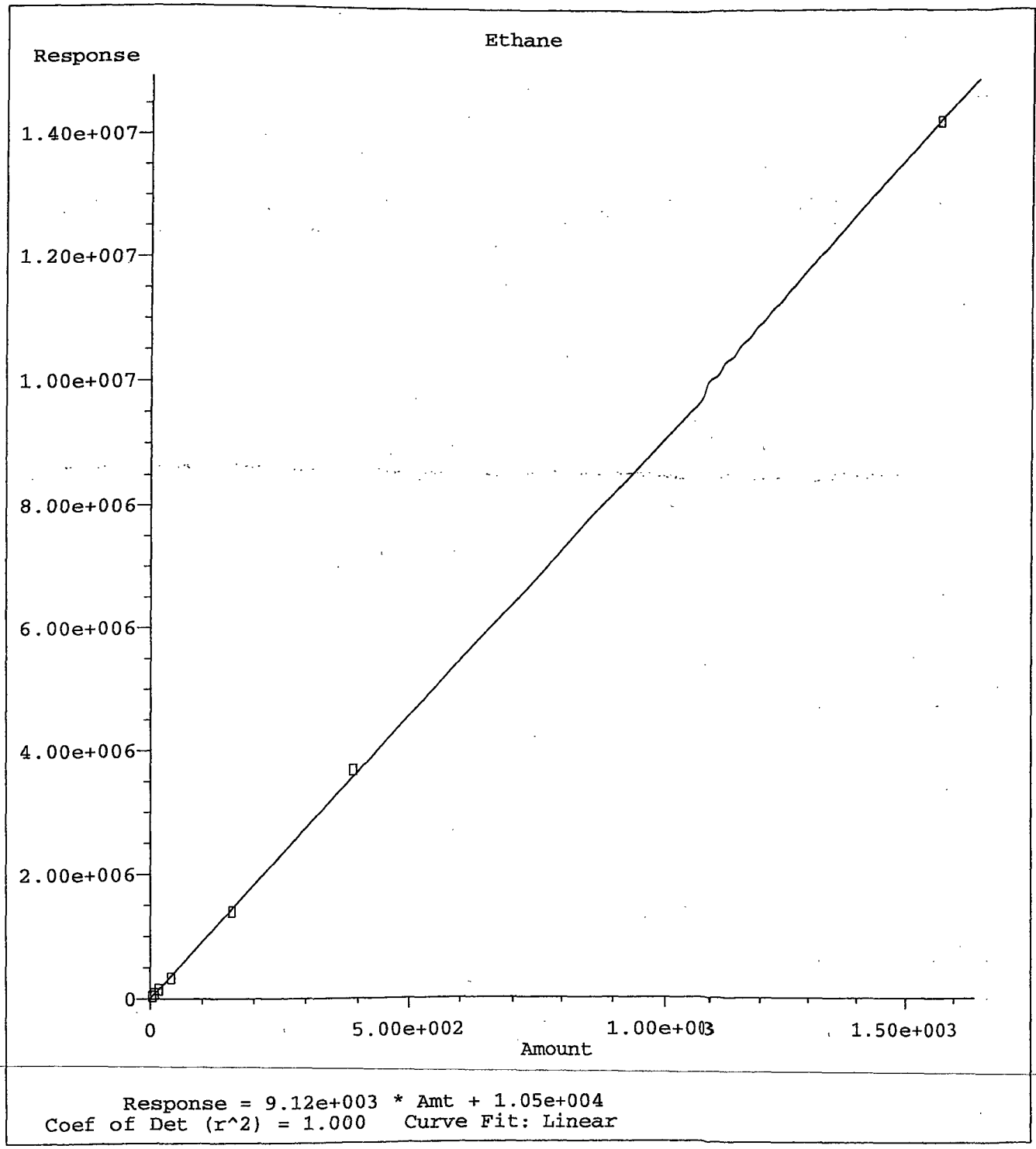
Quantitation Report

Data File: G:\ROCKY\DATA\200914RS\0914R14.D
Sample : SS RSK STD5 200914

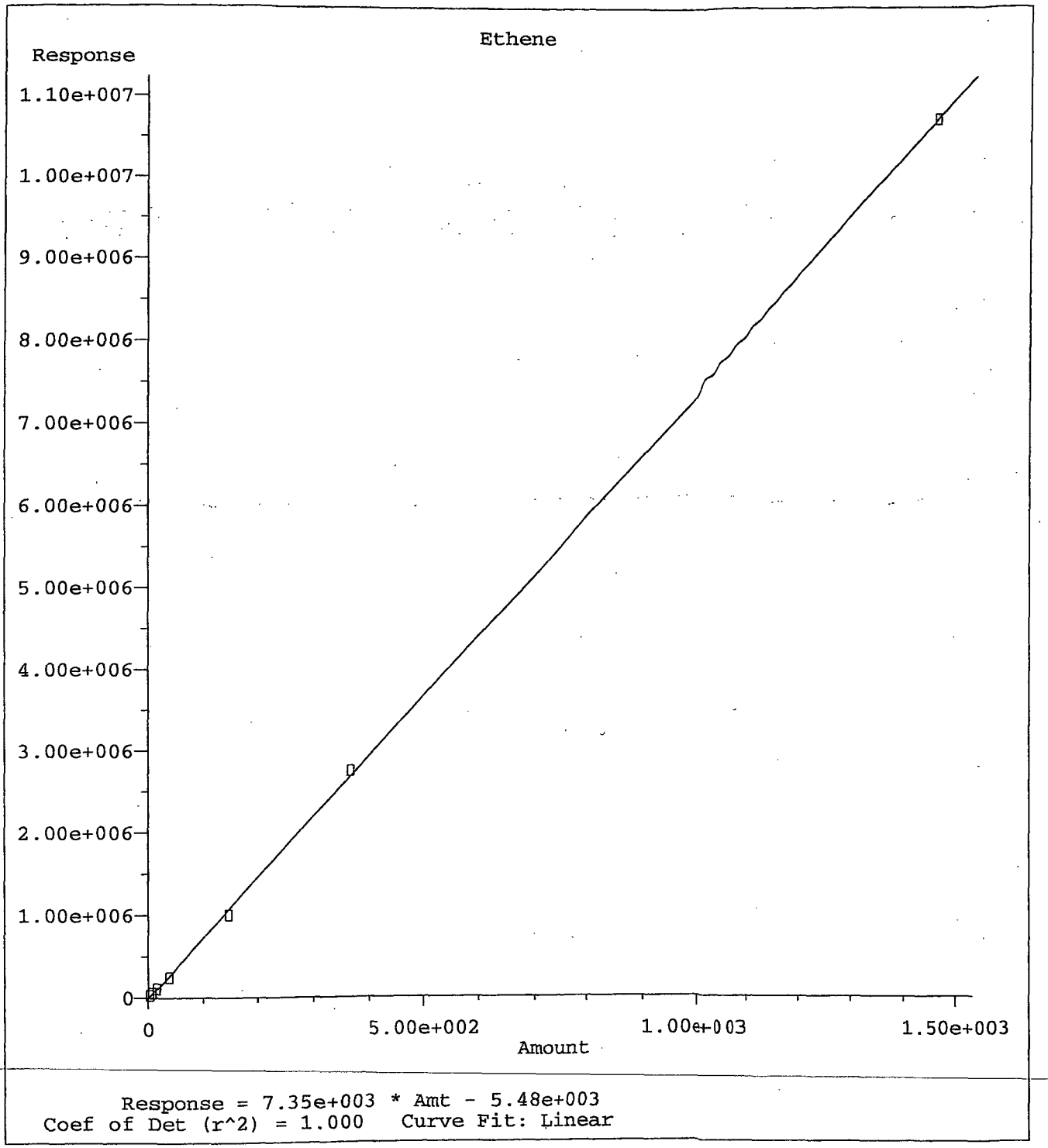




Method Name: G:\ROCKY\DATA\200624RS\RSK0914A.M
Calibration Table Last Updated: Mon Sep 14 12:40:32 2020



Method Name: G:\ROCKY\DATA\200624RS\RSK0914A.M
Calibration Table Last Updated: Mon Sep 14 12:40:32 2020



Method Name: G:\ROCKY\DATA\200624RS\RSK0914A.M
Calibration Table Last Updated: Mon Sep 14 12:40:32 2020

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/19/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 1019R01.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	25685	27600	7.5	ATML	12
2	ATML	Ethane	18863	22513	19	ATML	23
3	ATML	Ethene	14798	17961	21	ATML	23
4							
5							
6							
7							
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36							
37							
38							
39							
40							
		Average			15.8		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R01.D Vial: 1
Acq On : 19 Oct 20 17:00 Operator: GA
Sample : 201019A LCS/CCV Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 17:09 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

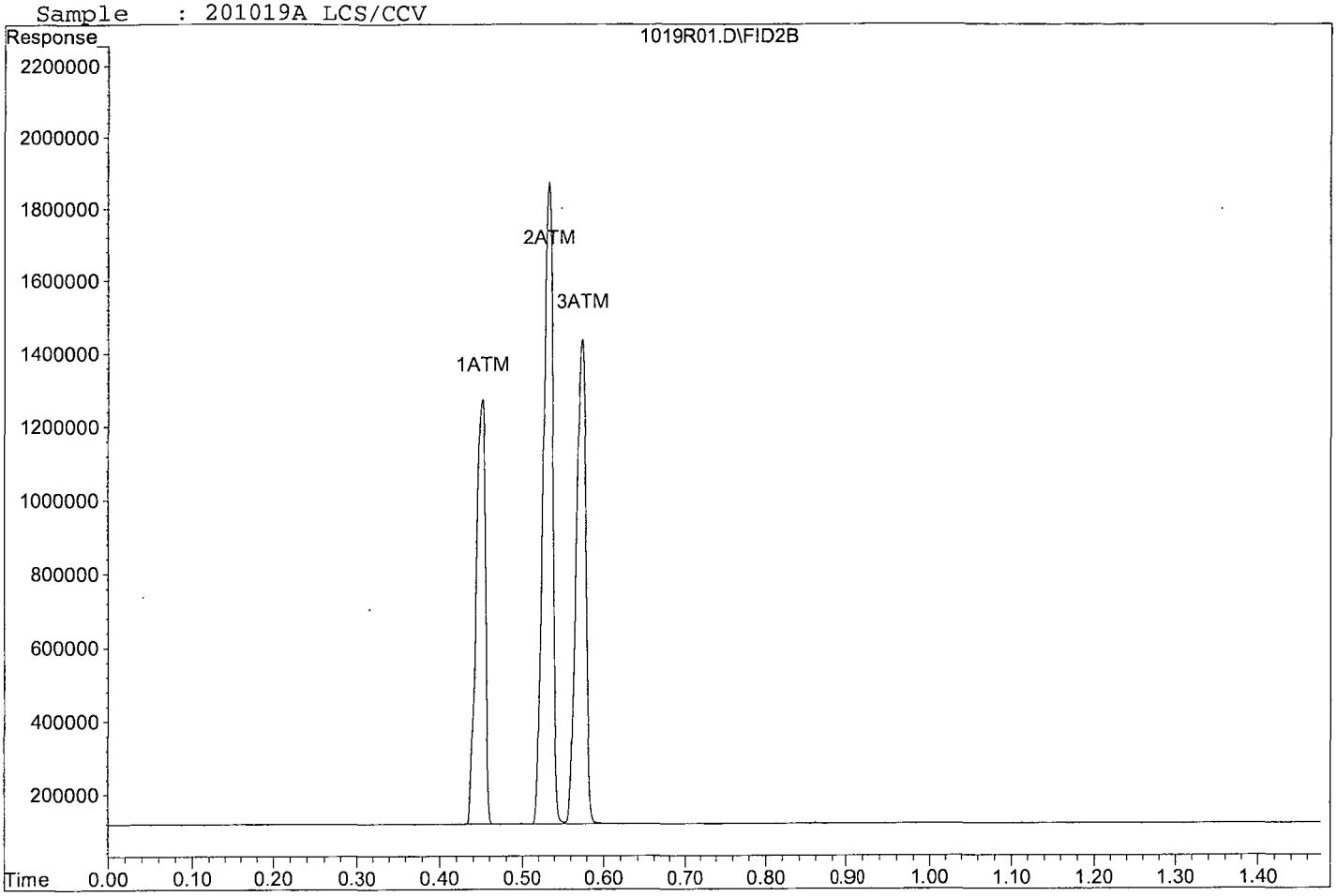
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.45	1150919	93.251 ppb
2) ATM Ethane	0.53	1759969	191.933 ppb
3) ATM Ethene	0.57	1309719	178.852 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R01.D
Sample : 201019A LCS/CCV



Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/19/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 1019R30.D

		Compound	MEAN	CCRF	%D	%Drift	
1	ATML	Methane	25685	27252	6.1	ATML	10
2	ATML	Ethane	18863	22737	21	ATML	24
3	ATML	Ethene	14798	17655	19	ATML	21
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			15.4		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R30.D Vial: 30
Acq On : 19 Oct 20 18:52 Operator: GA
Sample : 201019B LCS/CCV Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 18:54 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

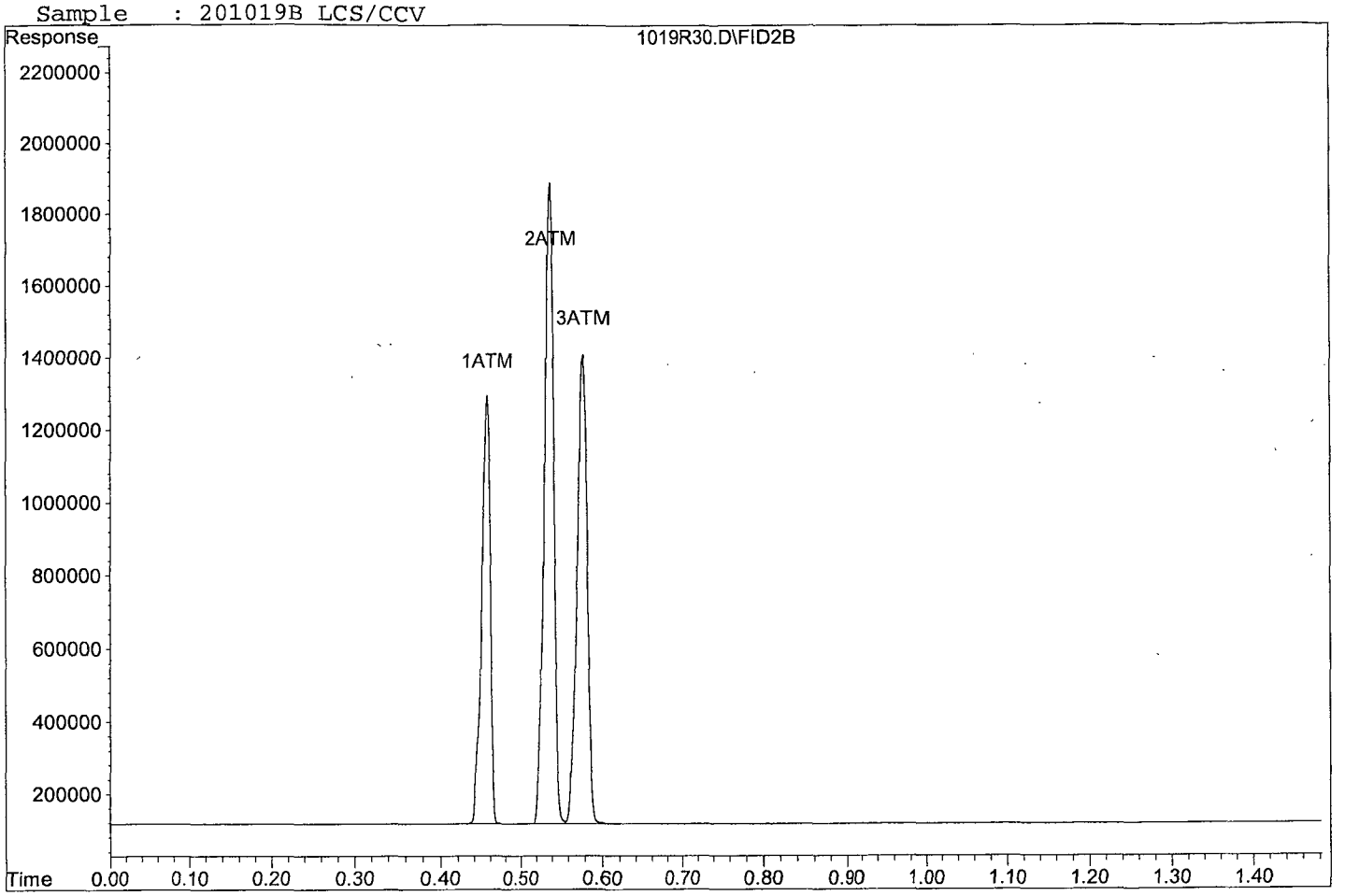
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.46	1136420	92.076 ppb
2) ATM Ethane	0.54	1777463	193.853 ppb
3) ATM Ethene	0.58	1287379	175.814 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R30.D
Sample : 201019B LCS/CCV



Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/19/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 1019R35.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	25685	24203	5.8	ATML	2.0
2	ATML	Ethane	18863	19968	5.9	ATML	8.8
3	ATML	Ethene	14798	15668	5.9	ATML	7.0
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			5.9		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R35.D Vial: 35
Acq On : 19 Oct 20 19:07 Operator: GA
Sample : 201019 CCV Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 19:10 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

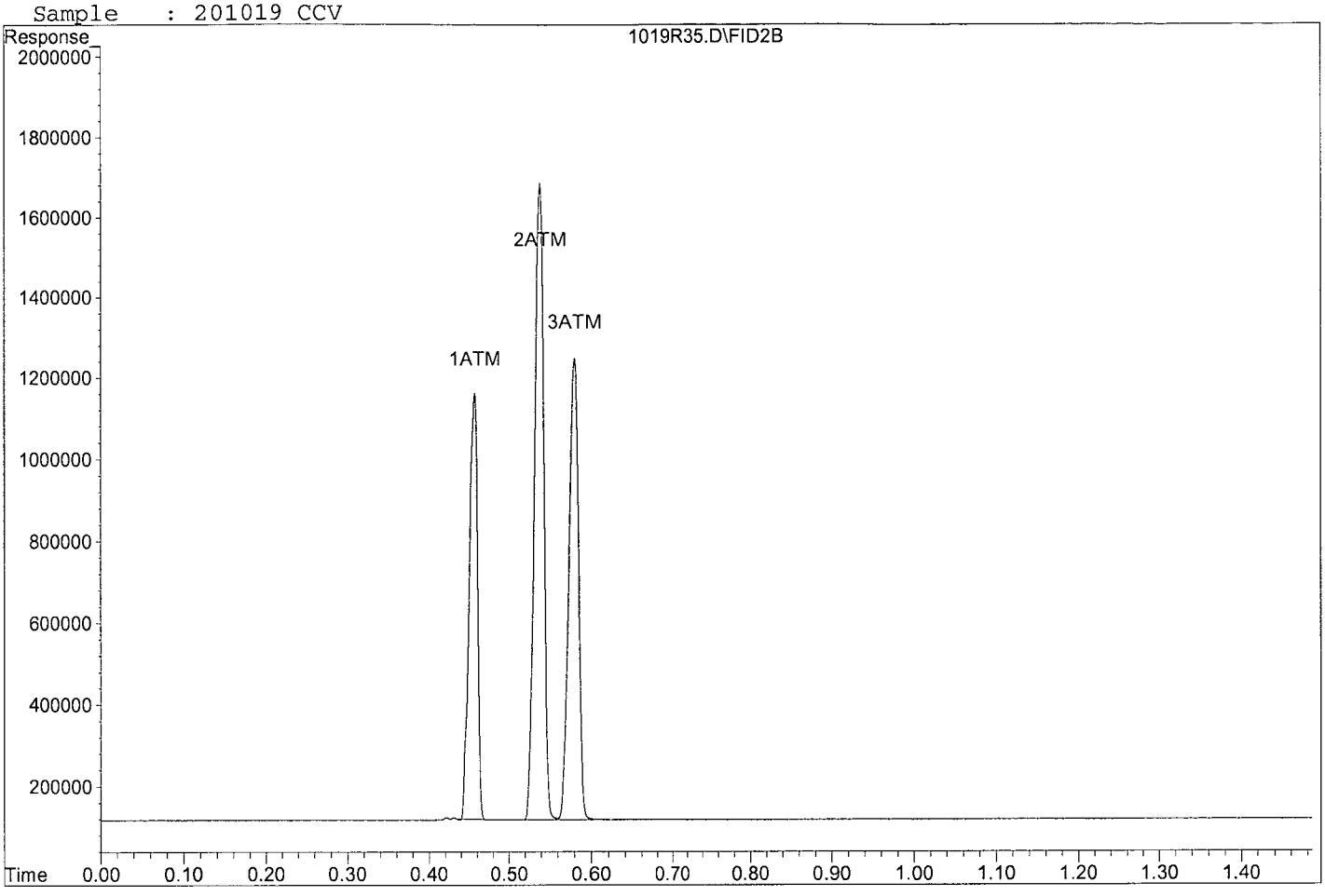
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) ATM Methane	0.46	1009253	81.764	ppb
2) ATM Ethane	0.54	1561023	170.108	ppb
3) ATM Ethene	0.58	1142535	156.117	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R35.D
Sample : 201019 CCV



ORGANICS

Raw Data

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R23.D Vial: 23
Acq On : 19 Oct 20 18:23 Operator: GA
Sample : BA20183W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 18:28 2020 Quant Results File: RSK0914A.RES

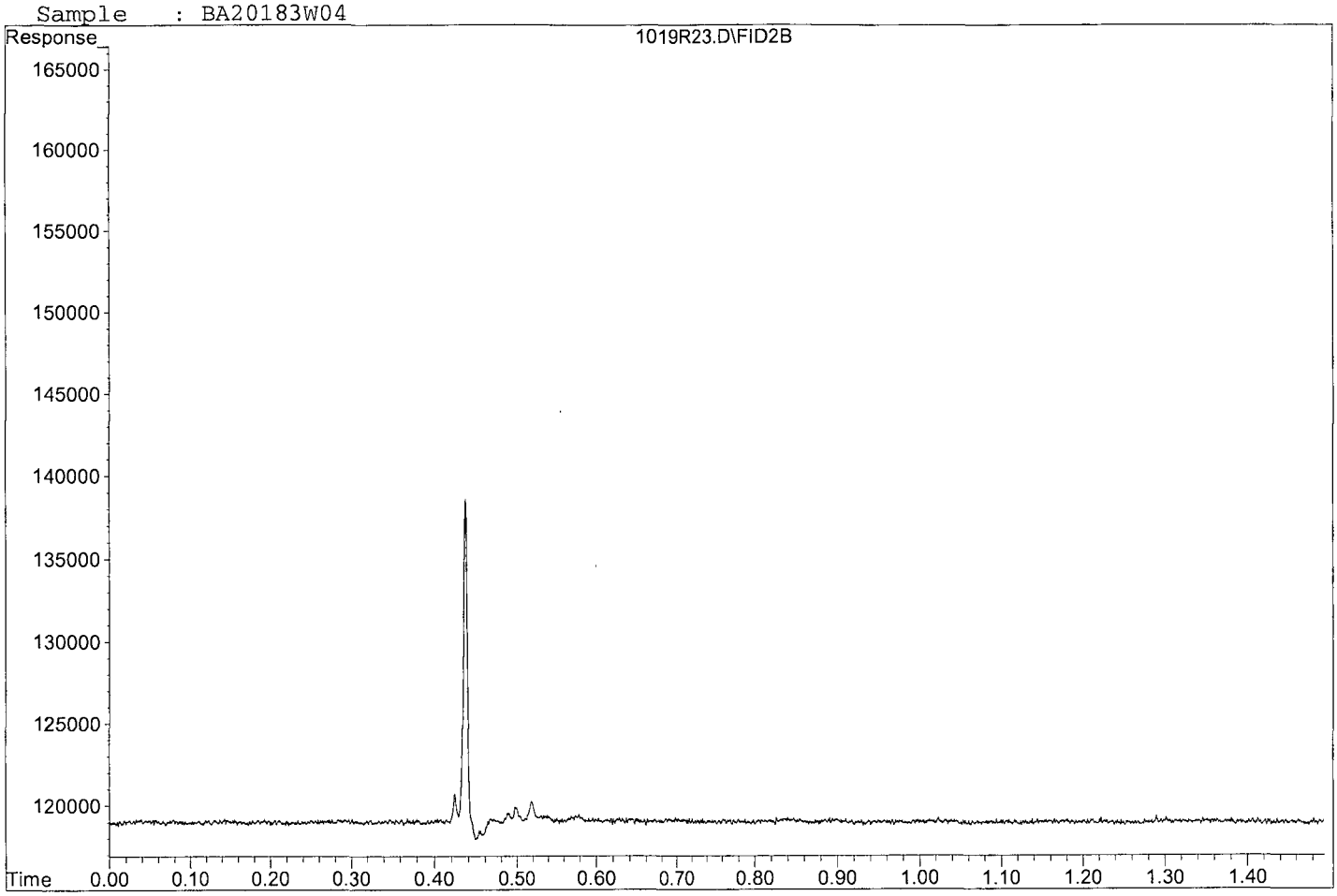
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R23.D
Sample : BA20183W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R24.D Vial: 24
Acq On : 19 Oct 20 18:29 Operator: GA
Sample : BA20184W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 18:33 2020 Quant Results File: RSK0914A.RES

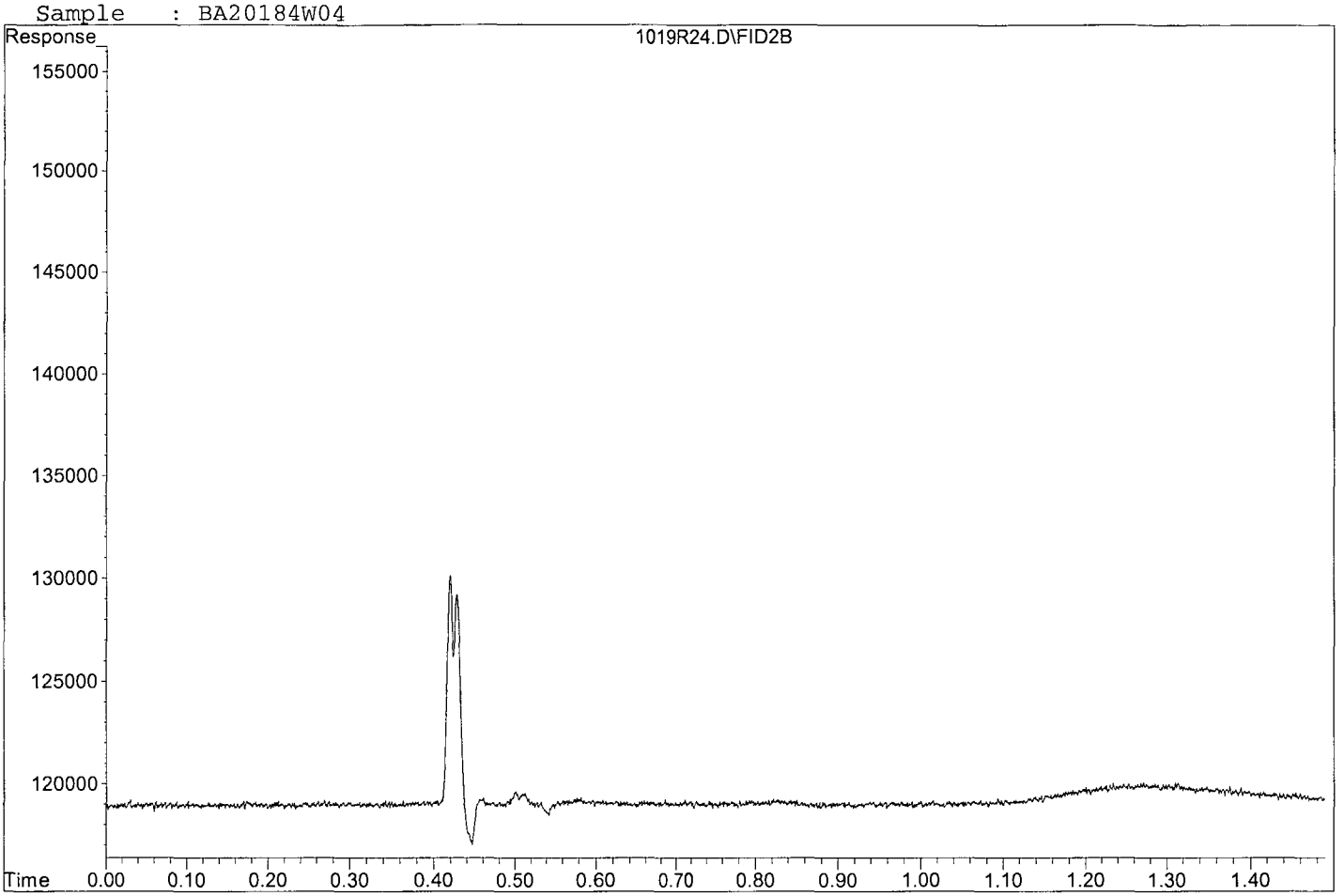
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R24.D
Sample : BA20184W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R25.D Vial: 25
Acq On : 19 Oct 20 18:34 Operator: GA
Sample : BA20185W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 18:37 2020 Quant Results File: RSK0914A.RES

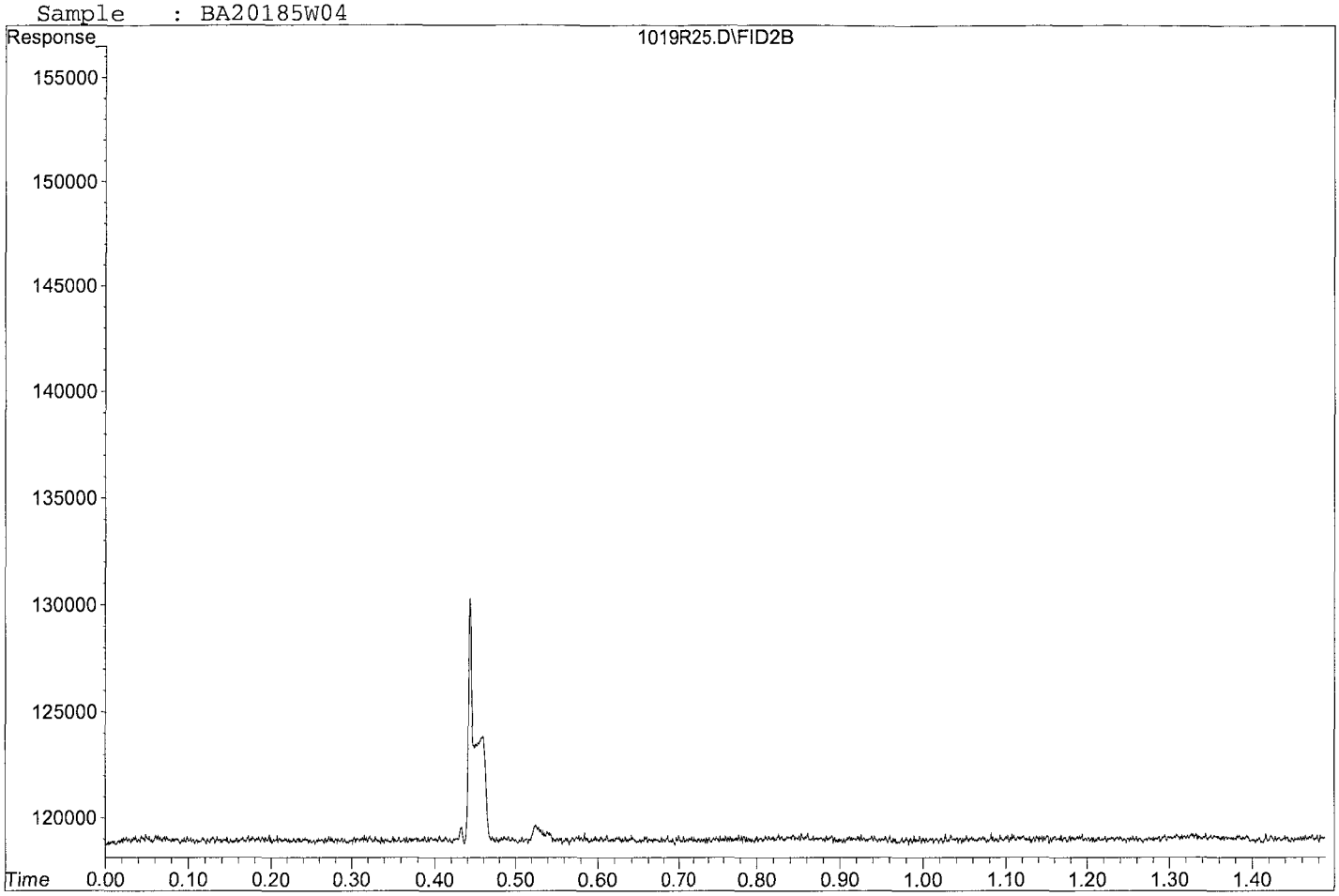
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R25.D
Sample : BA20185W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R26.D Vial: 26
Acq On : 19 Oct 20 18:38 Operator: GA
Sample : BA20186W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 18:40 2020 Quant Results File: RSK0914A.RES

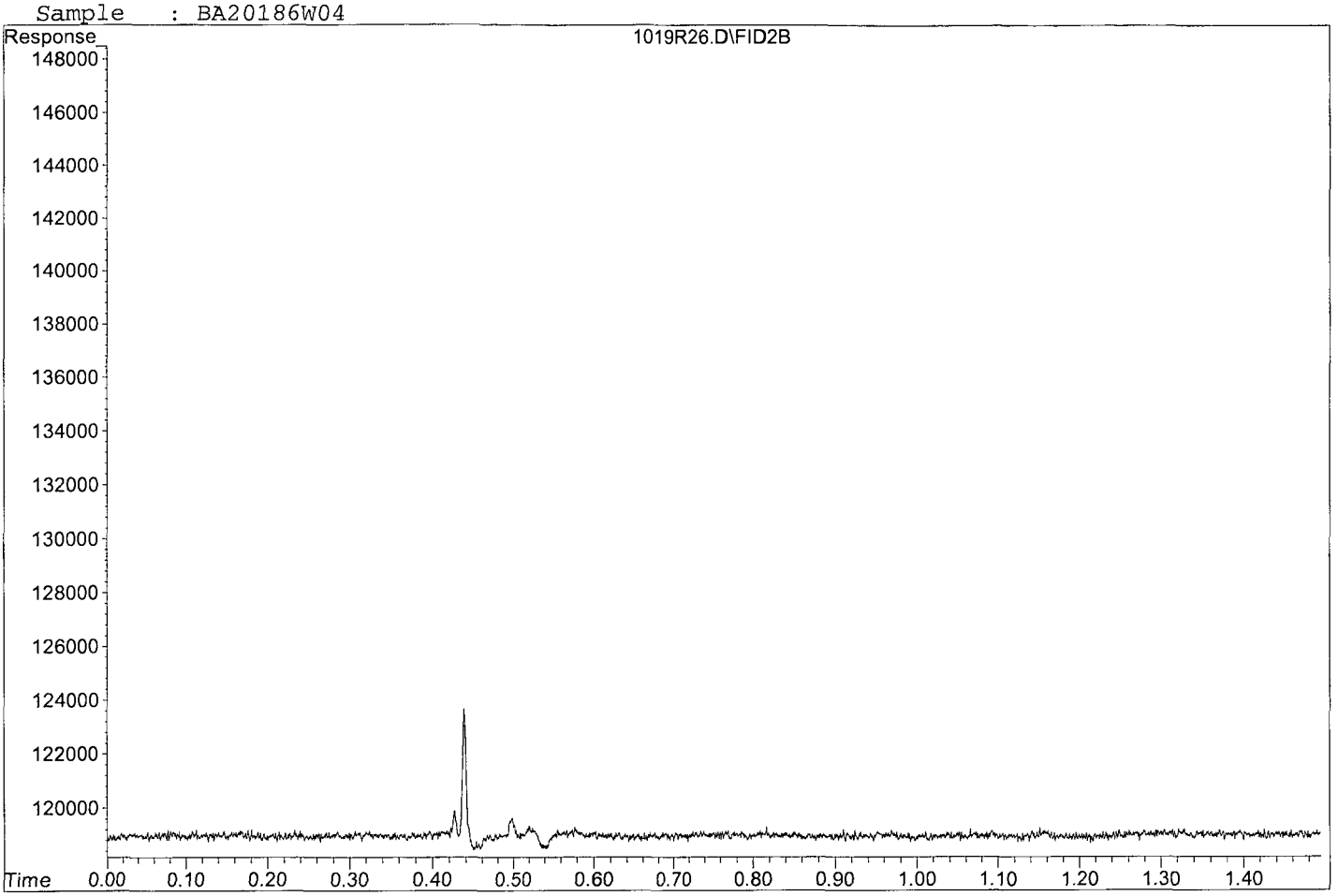
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R26.D
Sample : BA20186W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R27.D Vial: 27
Acq On : 19 Oct 20 18:41 Operator: GA
Sample : BA20187W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 18:43 2020 Quant Results File: RSK0914A.RES

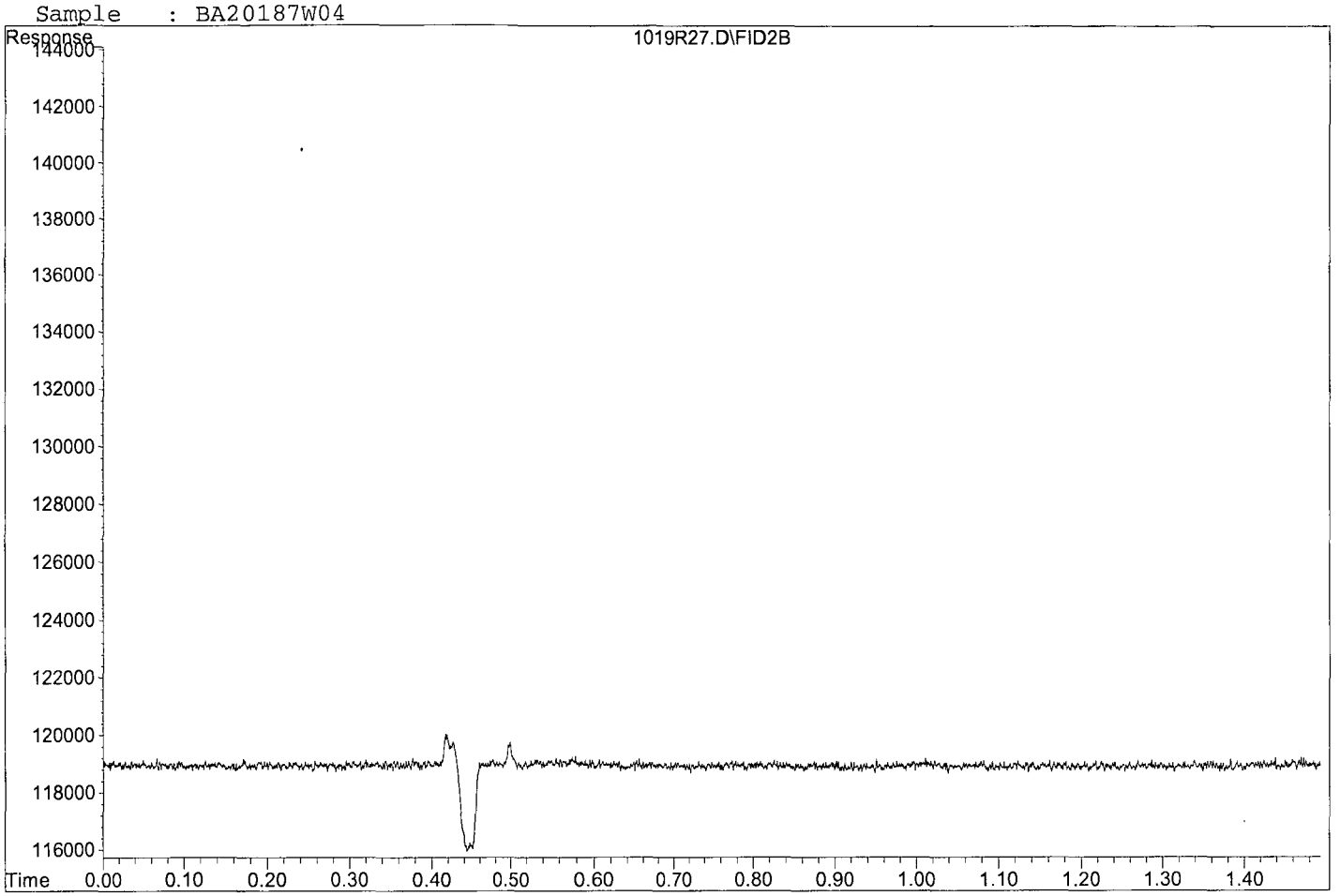
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R27.D
Sample : BA20187W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R28.D Vial: 28
Acq On : 19 Oct 20 18:44 Operator: GA
Sample : BA20188W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 18:47 2020 Quant Results File: RSK0914A.RES

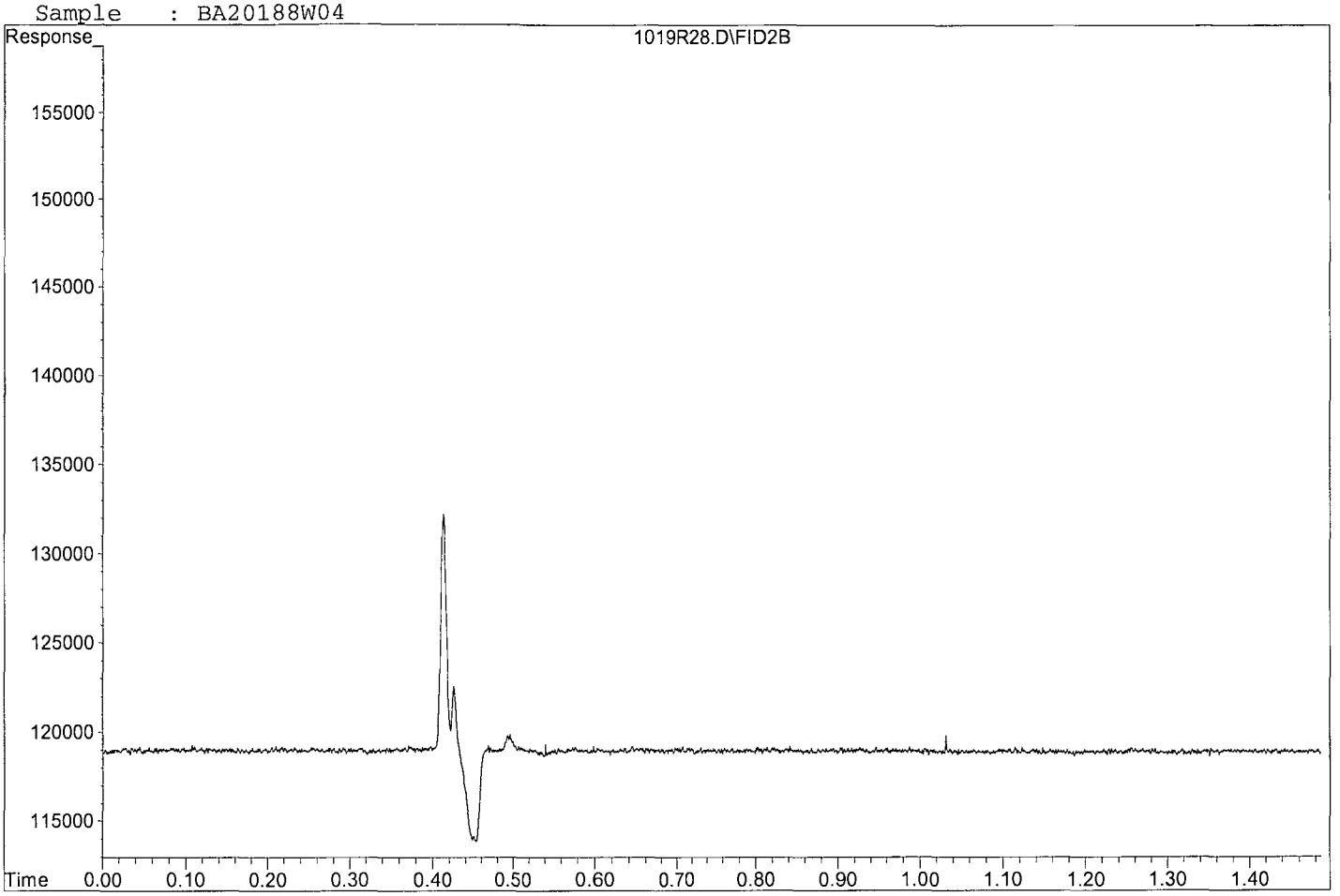
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R28.D
Sample : BA20188W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R33.D Vial: 33
Acq On : 19 Oct 20 19:00 Operator: GA
Sample : BA20189W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 19:03 2020 Quant Results File: RSK0914A.RES

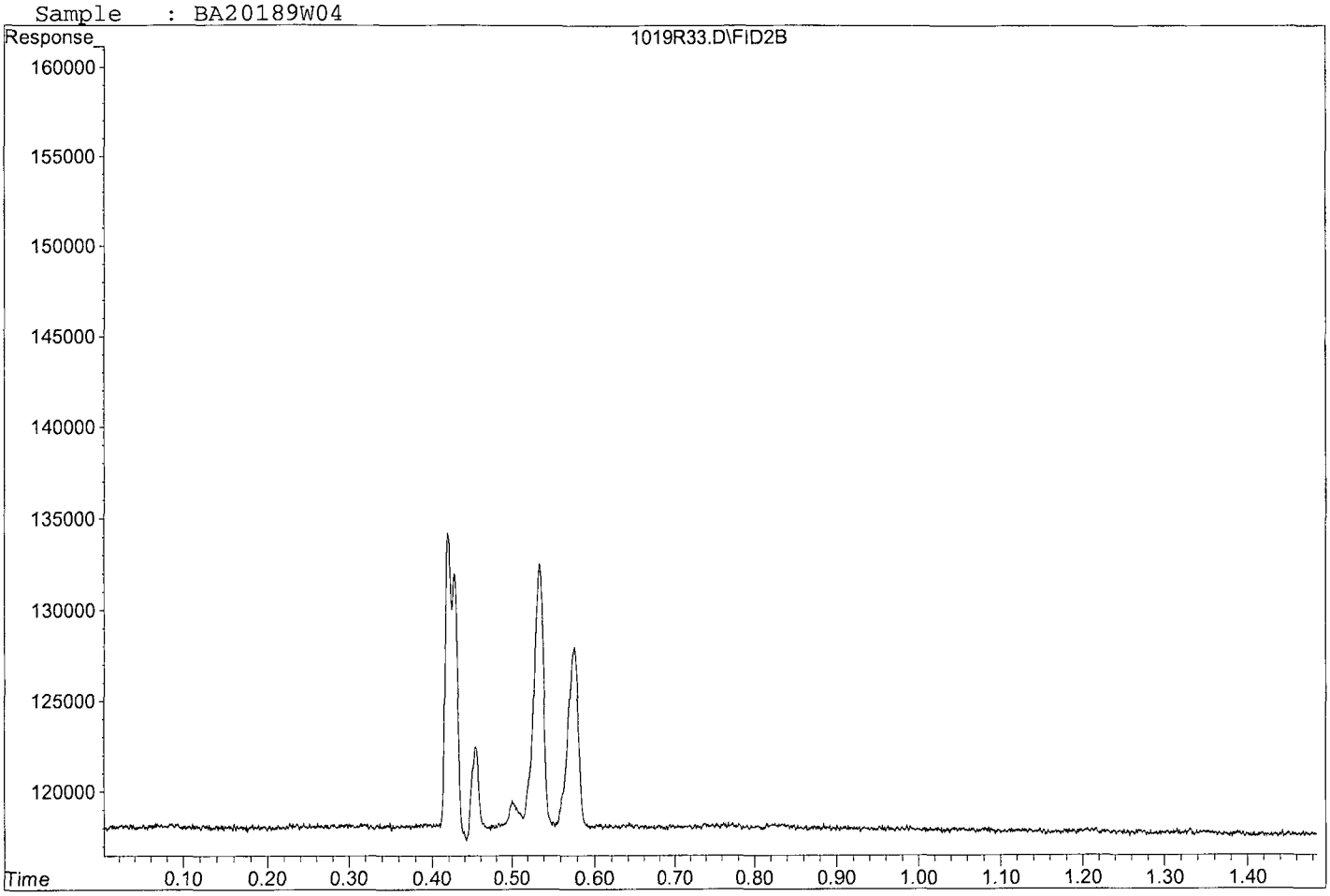
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R33.D
Sample : BA20189W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R34.D Vial: 34
Acq On : 19 Oct 20 19:04 Operator: GA
Sample : BA20190W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 19:06 2020 Quant Results File: RSK0914A.RES

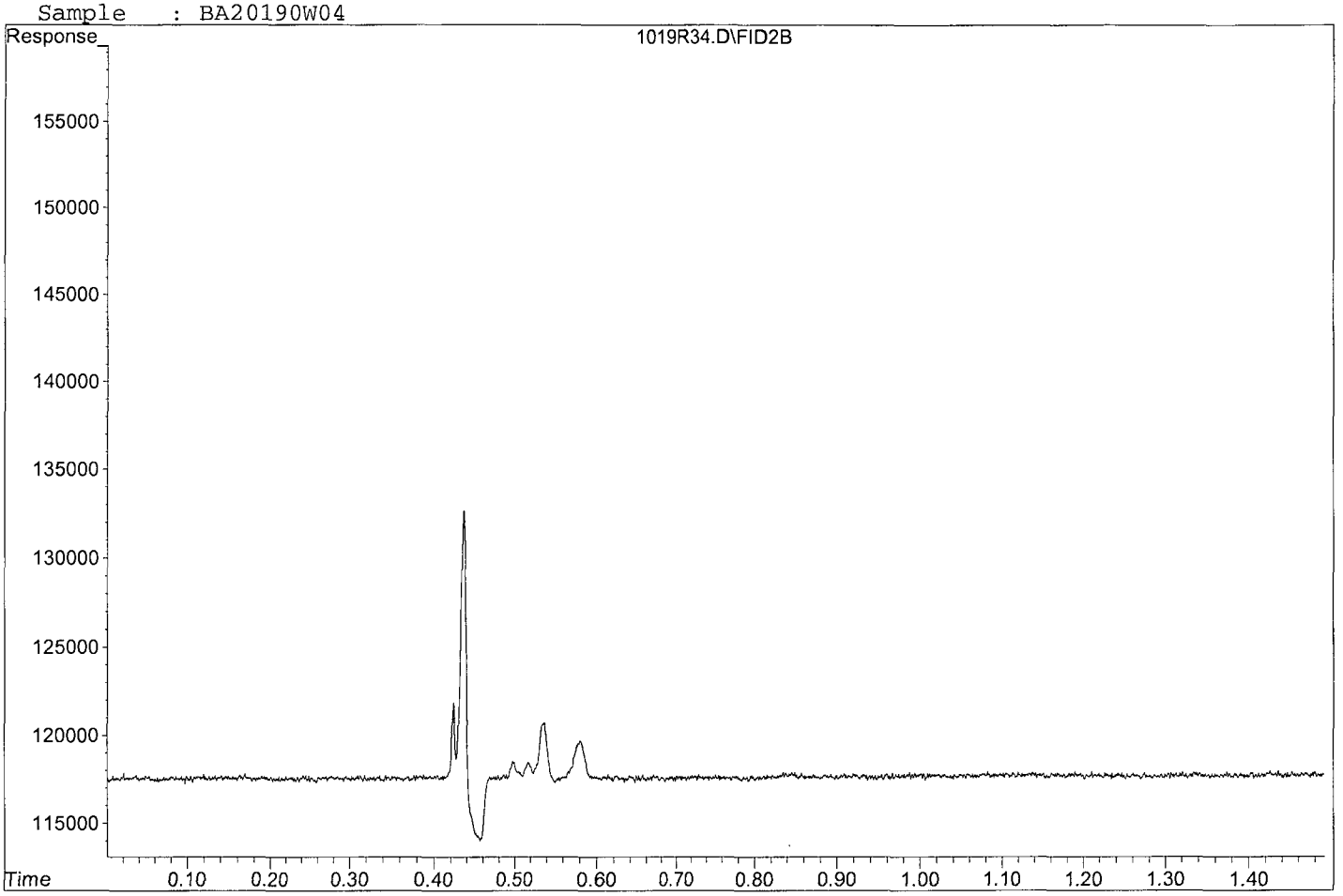
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R34.D
Sample : BA20190W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R04.D Vial: 4
Acq On : 19 Oct 20 17:15 Operator: GA
Sample : 201019A BLK Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 17:17 2020 Quant Results File: RSK0914A.RES

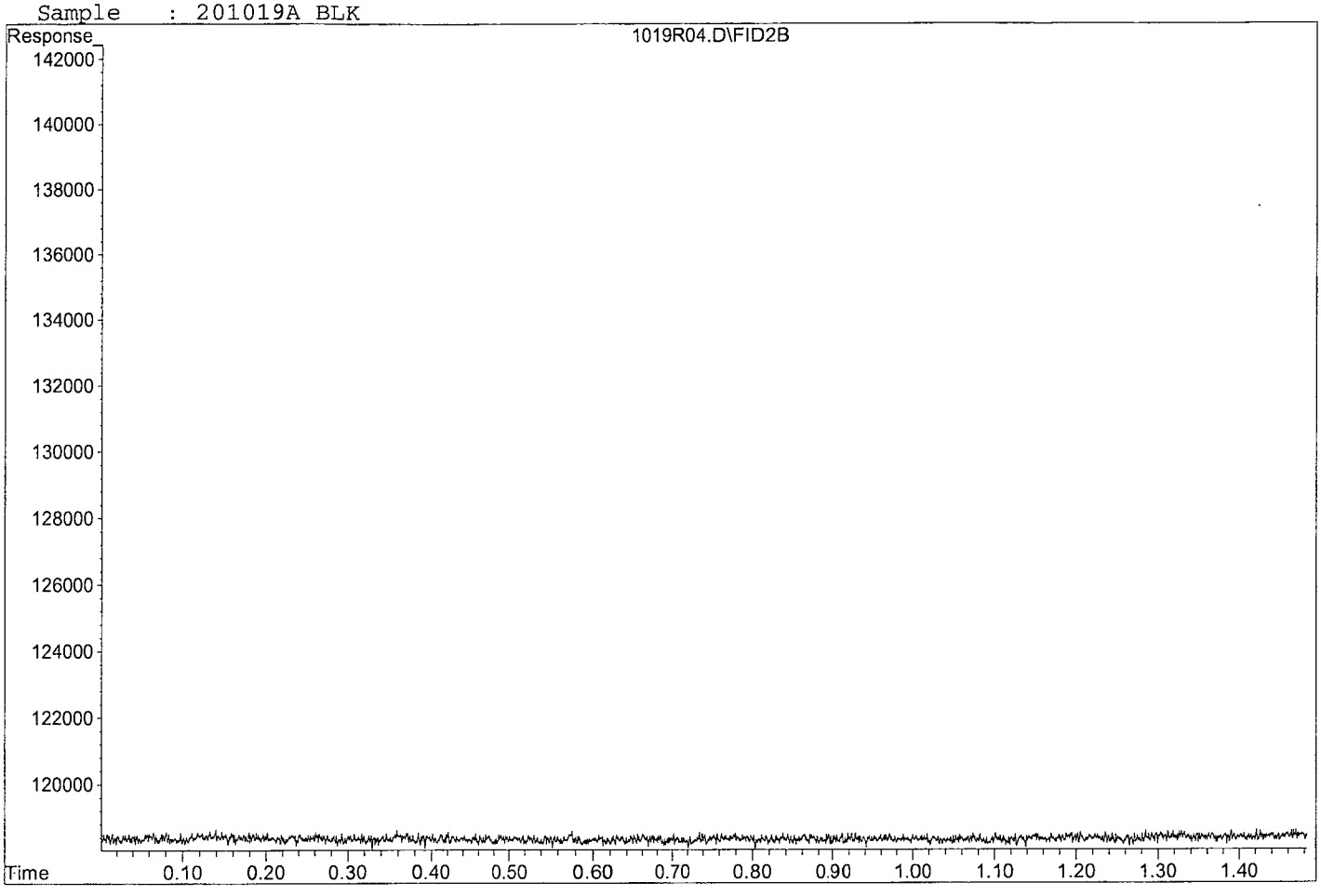
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R04.D
Sample : 201019A BLK



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R32.D Vial: 32
Acq On : 19 Oct 20 18:58 Operator: GA
Sample : 201019B BLK Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 19:00 2020 Quant Results File: RSK0914A.RES

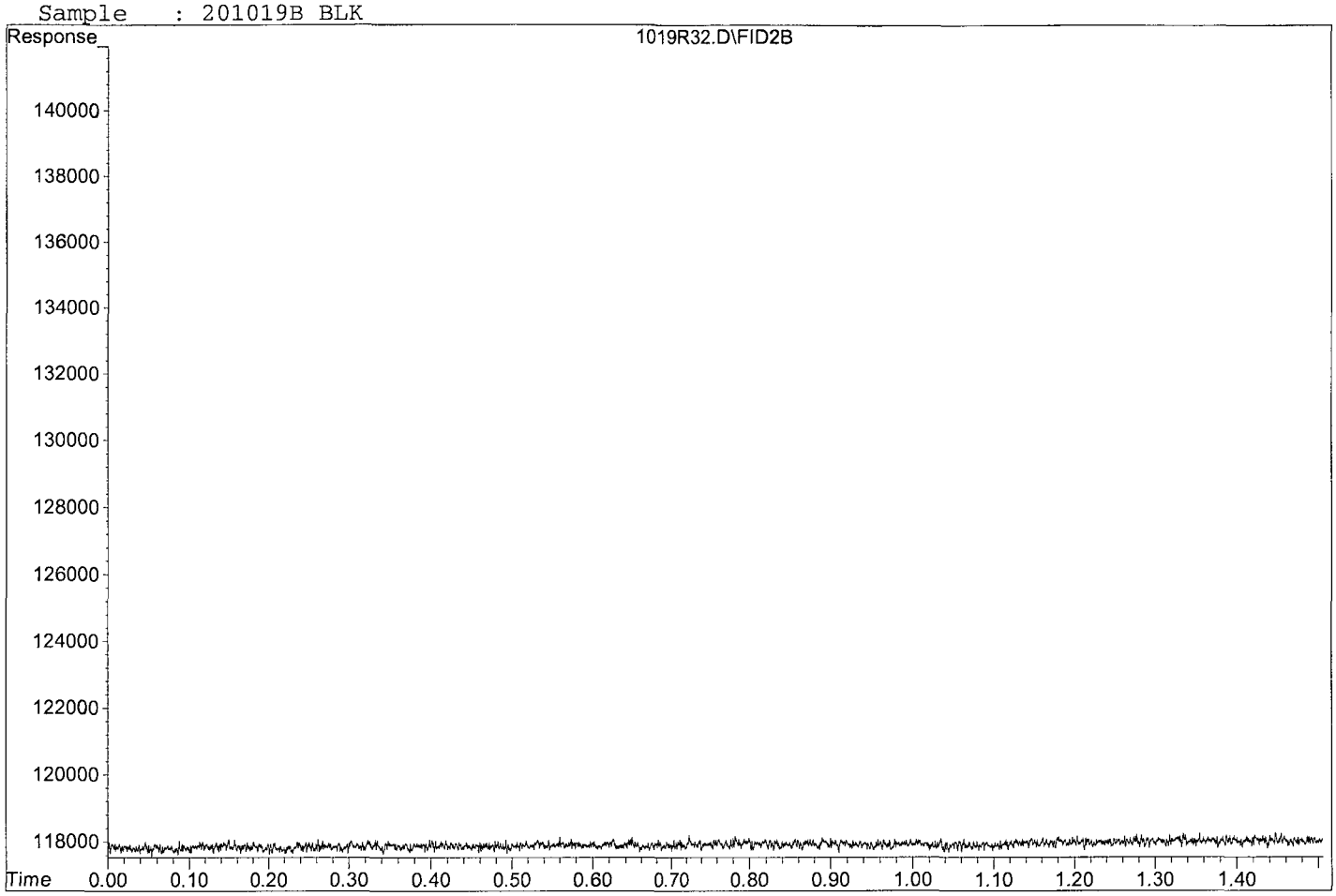
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R32.D
Sample : 201019B BLK



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R01.D Vial: 1
Acq On : 19 Oct 20 17:00 Operator: GA
Sample : 201019A LCS/CCV Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 17:09 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

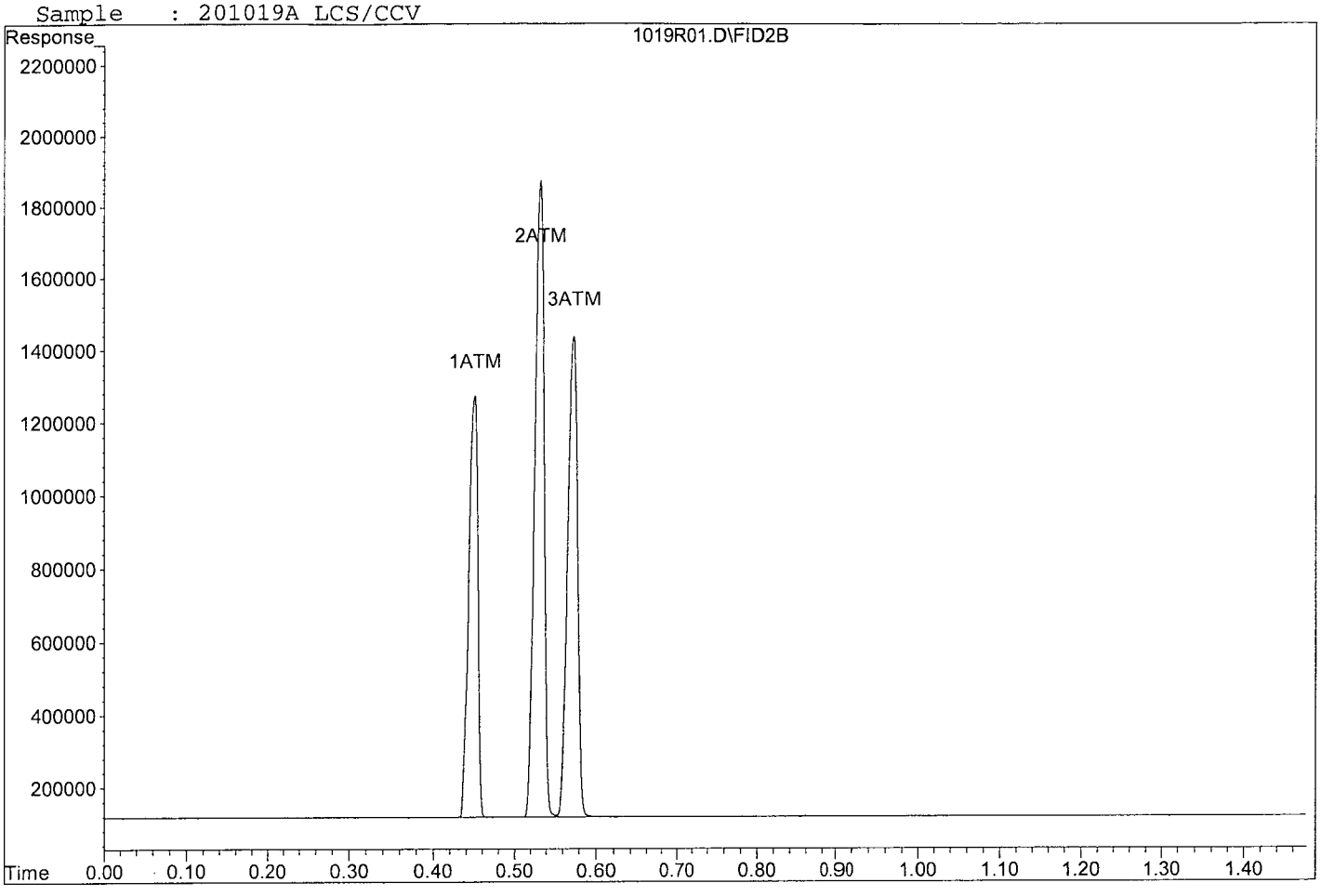
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.45	1150919	93.251 ppb
2) ATM Ethane	0.53	1759969	191.933 ppb
3) ATM Ethene	0.57	1309719	178.852 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R01.D
Sample : 201019A LCS/CCV



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R30.D Vial: 30
Acq On : 19 Oct 20 18:52 Operator: GA
Sample : 201019B LCS/CCV Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 18:54 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 20 11:32:07 2020
Response via : Multiple Level Calibration

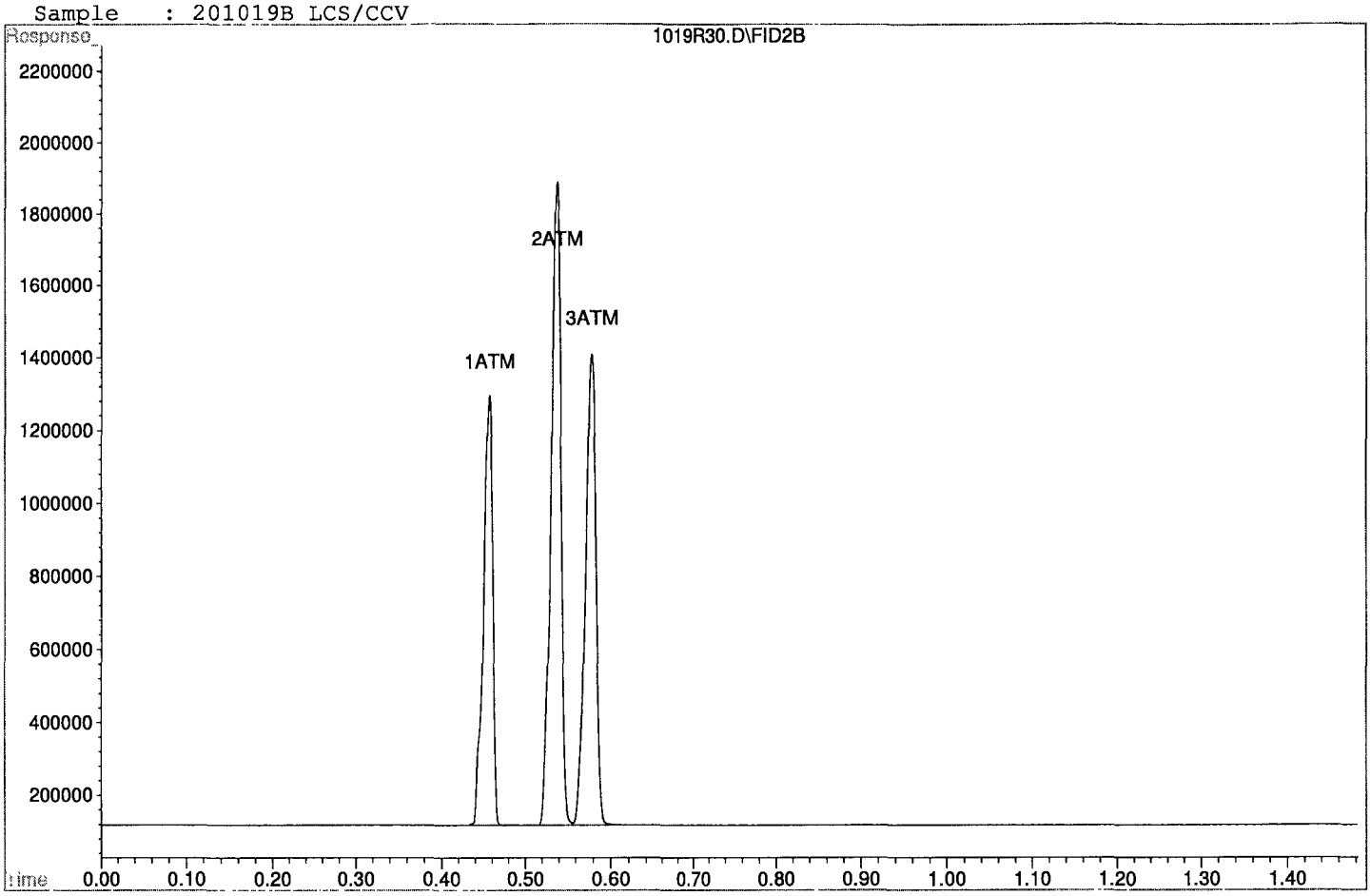
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.46	1136420	92.076 ppb
2) ATM Ethane	0.54	1777463	193.853 ppb
3) ATM Ethene	0.58	1287379	175.814 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R30.D
Sample : 201019B LCS/CCV



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R03.D Vial: 3
Acq On : 19 Oct 20 17:13 Operator: GA
Sample : 201019A LCSD Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 17:15 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

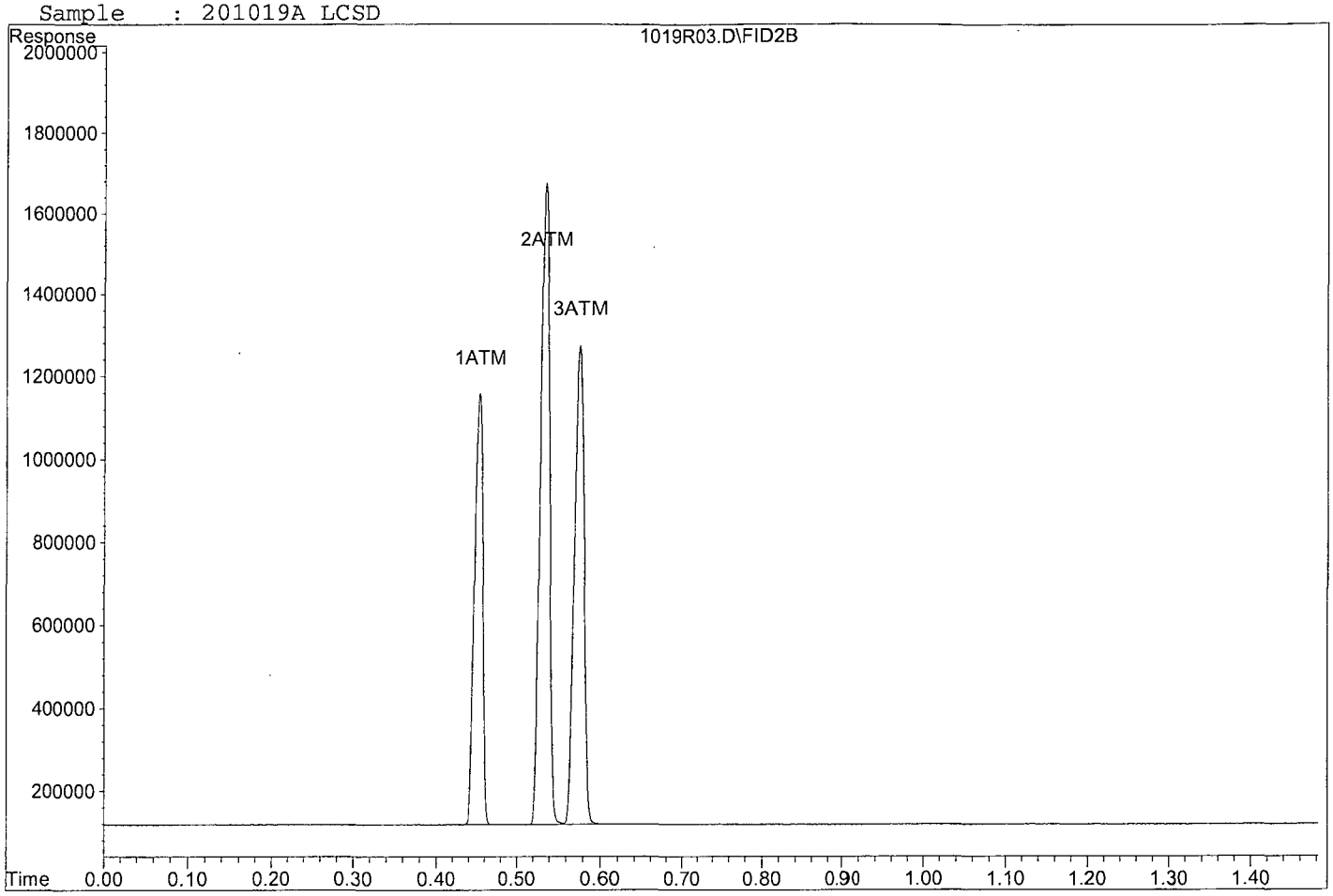
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.45	1022173	82.812 ppb
2) ATM Ethane	0.53	1560550	170.056 ppb
3) ATM Ethene	0.58	1143832	156.293 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R03.D
Sample : 201019A LCSD



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1019R31.D Vial: 31
Acq On : 19 Oct 20 18:55 Operator: GA
Sample : 201019B LCSD Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 19 18:57 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Oct 19 17:09:30 2020
Response via : Multiple Level Calibration

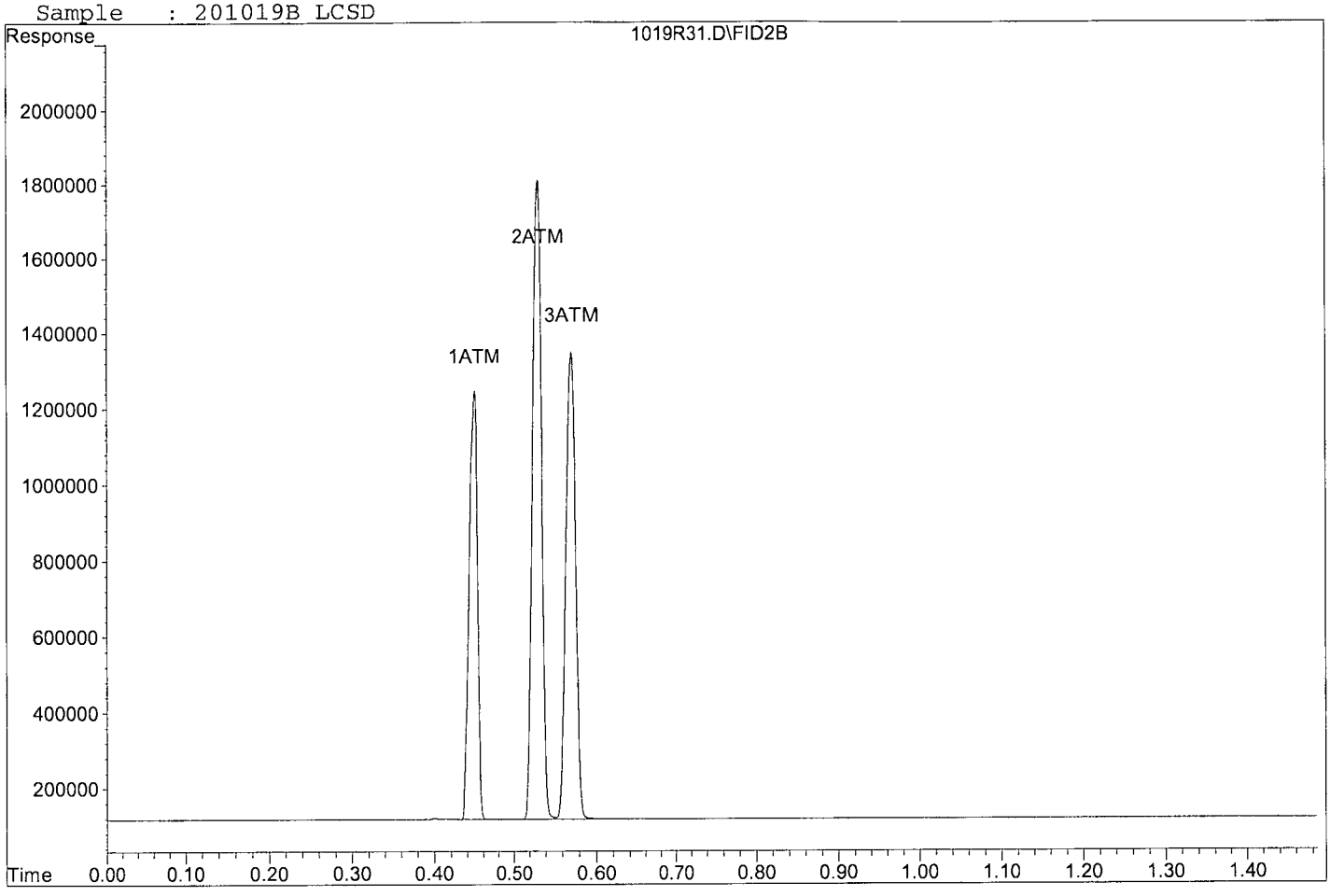
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) ATM Methane	0.45	1086927	88.063	ppb
2) ATM Ethane	0.53	1708344	186.270	ppb
3) ATM Ethene	0.57	1230653	168.100	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1019R31.D
Sample : 201019B LCSD



Primary Stock Source

10,000ppmV **Manufacture Expiration:** 09/21/21

RSK Gas Mix (Scott Specialty Gas) CAT#X04NI97CP140001 LOT#160-401558175-1

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

RSK Calibration Curve

Analyte	Conc Std 1 (1/2 = LOD) (ug/L)	Conc Std 2 (LOQ Chk) (ug/L)	Conc Std 3 (ug/L)	Conc Std 4 (ug/L)	Conc Std 5 (ug/L)	Conc Std 6 (ug/L)	Conc Std 7 (ug/L)
Methane (MW 16.04)	2.08	4.16	8.34	20.85	83.40	208.5	834.0
Ethane (MW 30.07)	3.91	7.81	15.6	39.09	156.35	390.9	1563.5
Ethene (MW 28.05)	3.65	7.30	14.6	36.46	145.84	364.6	1458.4
Stock Source	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1
Stock Conc (ppmv)	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV
Stock Aliquot (mL)	0.010	0.020	0.040	0.100	0.400	1.00	4.00
Final Volume P&T Water	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL
Curve Prep:	09/14/20						
Expiration Date	09/15/20						
Analyst	CD						

Second Source Stock Standard 10,000ppmV **Manufacturer Exp date 9-21-2021**

RSK Gas Mix (Scott Specialty Gas) Cat.# 23452, Lot # 160-401303032-1-39774

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

Second Source **Expires 06/25/2020** **CD 09/14/20**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace

final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

CCV/LCS/LCSD **GA 10/19/20**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace
final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

Injection Log

Directory: G:\ROCKY\DATA\200914RS\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0914R07.D	1	RSK STD1 200914		14 Sep 20 12:06
2	1	0914R08.D	1	RSK STD2 200914		14 Sep 20 12:10
3	1	0914R09.D	1	RSK STD3 200914		14 Sep 20 12:13
4	1	0914R10.D	1	RSK STD4 200914		14 Sep 20 12:18
5	1	0914R11.D	1	RSK STD5 200914		14 Sep 20 12:21
6	1	0914R12.D	1	RSK STD6 200914		14 Sep 20 12:25
7	1	0914R13.D	1	RSK STD7 200914		14 Sep 20 12:28
8	1	0914R14.D	1	SS RSK STD5 200914		14 Sep 20 12:32
9	1	1019R01.D	1	201019A LCS/CCV	RSK STD 5	19 Oct 20 17:00
11	3	1019R03.D	1	201019A LCSD	RSK STD 5	19 Oct 20 17:13
12	4	1019R04.D	1	201019A BLK		19 Oct 20 17:15
31	23	1019R23.D	1	BA20183W04		19 Oct 20 18:23
32	24	1019R24.D	1	BA20184W04		19 Oct 20 18:29
33	25	1019R25.D	1	BA20185W04		19 Oct 20 18:34
34	26	1019R26.D	1	BA20186W04		19 Oct 20 18:38
35	27	1019R27.D	1	BA20187W04		19 Oct 20 18:41
36	28	1019R28.D	1	BA20188W04		19 Oct 20 18:44
38	30	1019R30.D	1	201019B LCS/CCV	RSK STD 5	19 Oct 20 18:52
39	31	1019R31.D	1	201019B LCSD	RSK STD 5	19 Oct 20 18:55
40	32	1019R32.D	1	201019B BLK		19 Oct 20 18:58
41	33	1019R33.D	1	BA20189W04		19 Oct 20 19:00
42	34	1019R34.D	1	BA20190W04		19 Oct 20 19:04
43	35	1019R35.D	1	201019 CCV	RSK STD 5	19 Oct 20 19:07

INORGANIC ANALYSIS
Calibration Data

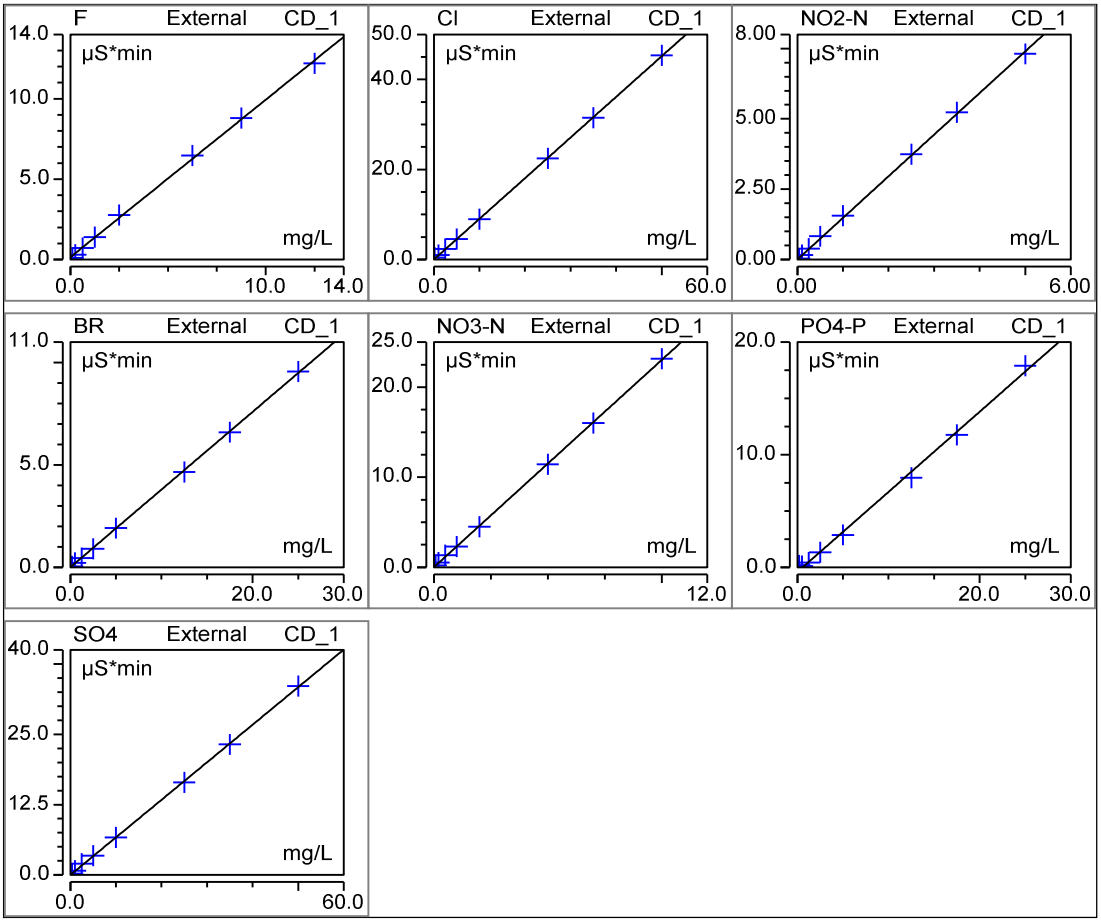
Calibration Batch Report

Sequence:	**200914**	*Injection Volume:*	**100.00**
Instrument Method:	**Anions IM**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:14**	*Run Time:*	**11.3**

Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset	8.000	0.145	0.979	0.000	99.9001
Cl	Area	Lin	8.000	0.000	0.903	0.000	99.9935
NO2-N	Area	Lin	8.000	0.000	1.479	0.000	99.9464
BR	Area	Lin	8.000	0.000	0.380	0.000	99.9760
NO3-N	Area	Lin	8.000	0.000	2.303	0.000	99.9829
PO4-P	Area	Lin, WithOffset	8.000	-0.422	0.712	0.000	99.6941
SO4	Area	Lin	8.000	0.000	0.668	0.000	99.9749

Injection Name	Amount mg/L CD_1 F	Amount mg/L CD_1 Cl	Amount mg/L CD_1 NO2-N	Amount mg/L CD_1 BR	Amount mg/L CD_1 NO3-N	Amount mg/L CD_1 PO4-P	Amount mg/L CD_1 SO4
Cal 1 2020.09.14	n.a.	0.4466	0.0267	0.1154	0.0851	0.8392	0.3384
Cal 2 2020.09.14	0.156	1.0882	0.1103	0.5719	0.2207	0.7580	1.0968
Cal 3 2020.09.14	0.579	2.5688	0.2608	1.1951	0.5851	1.1858	3.0282
Cal 6 2020.09.14	6.454	24.8384	2.5325	12.2607	4.9590	11.7563	24.6682
Cal 7 2020.09.14	8.833	34.8728	3.5379	17.3849	6.9578	17.1045	34.7367
Cal 8 2020.09.14	12.309	50.1817	4.9401	25.2082	10.0551	25.7199	50.3133
Cal 4 2020.09.14	1.274	5.0060	0.5579	2.3764	0.9968	2.4551	5.1734
Cal 5 2020.09.14	2.674	9.9066	1.0533	5.0316	1.9525	4.6312	9.9586

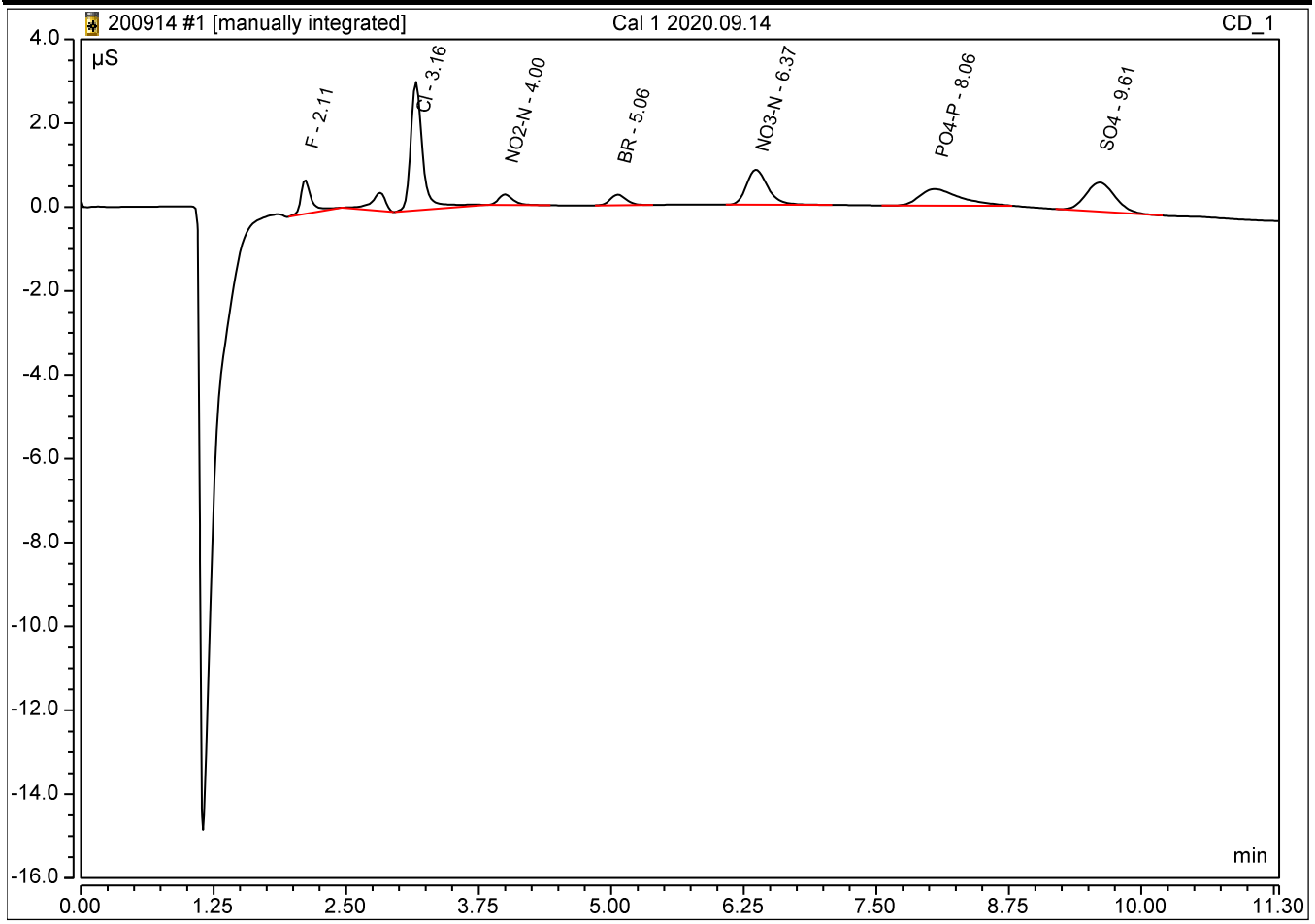


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 1 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:17**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	0.093	0.817	n.a.	0.1	3951224067 c
3	3.16	**Cl**	BMB	0.403	3.072	0.45	0.2	223.3%
4	4.00	**NO2-N**	BMB	0.039	0.250	0.03	0.04	66.7%
5	5.06	**BR**	BMB	0.044	0.253	0.12	0.2	57.7%
6	6.37	**NO3-N**	BMB	0.196	0.837	0.09	0.08	106.4%
7	8.06	**PO4-P**	BMB*	0.176	0.398	0.84	0.2	419.6%
8	9.61	**SO4**	BMB	0.226	0.700	0.34	0.4	84.6%

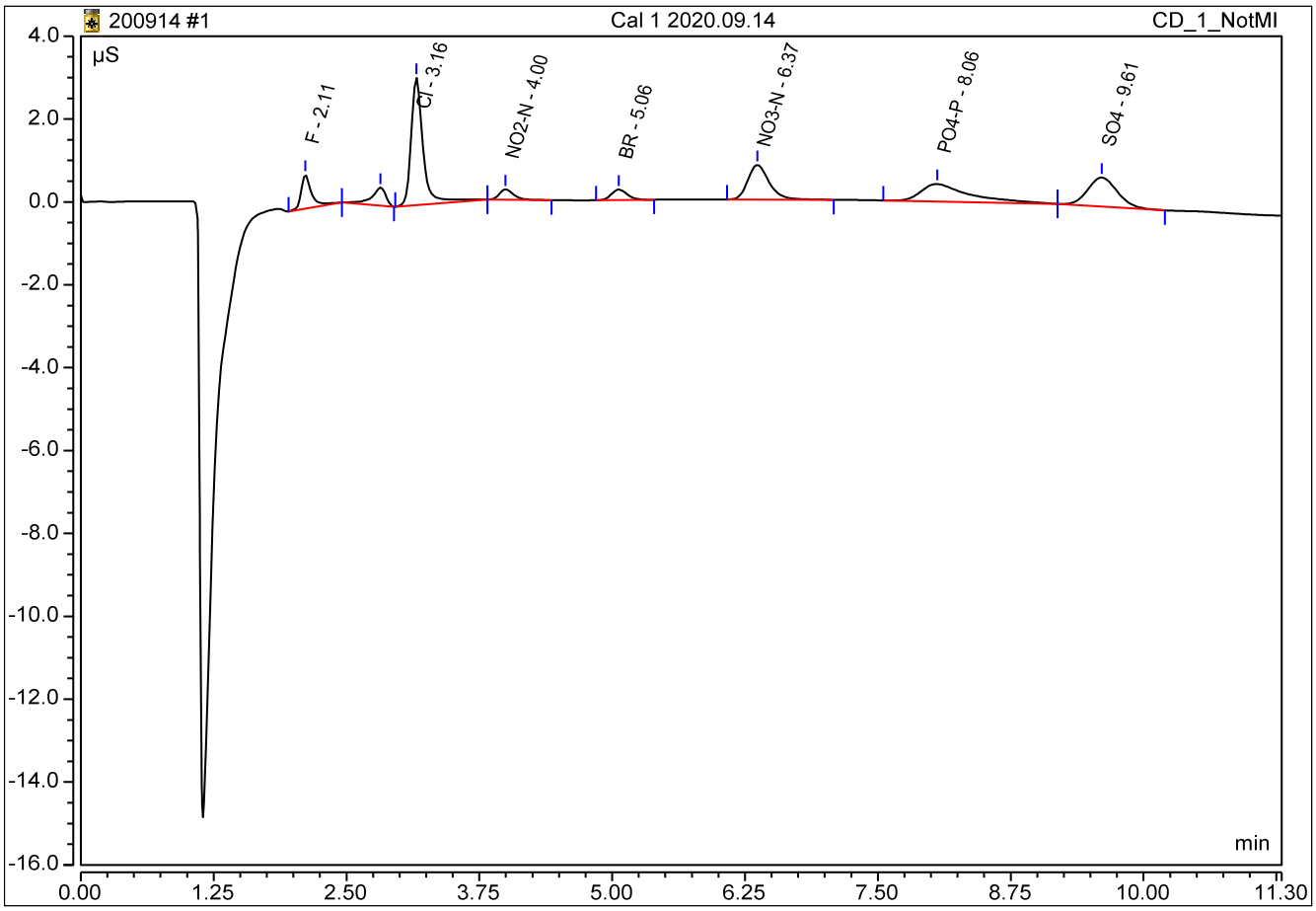


MI 5 PO4 GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**Cal 1 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:17**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.11	**F**	BMB	0.093	0.817	-0.0531
3	3.16	**Cl**	BMB	0.403	3.072	0.4466
4	4.00	**NO2-N**	BMB	0.039	0.250	0.0267
5	5.06	**BR**	BMB	0.044	0.253	0.1154
6	6.37	**NO3-N**	BMB	0.196	0.837	0.0849
7	8.06	**PO4-P**	BMB*	0.223	0.422	0.8905
8	9.61	**SO4**	BMB	0.226	0.700	0.3383

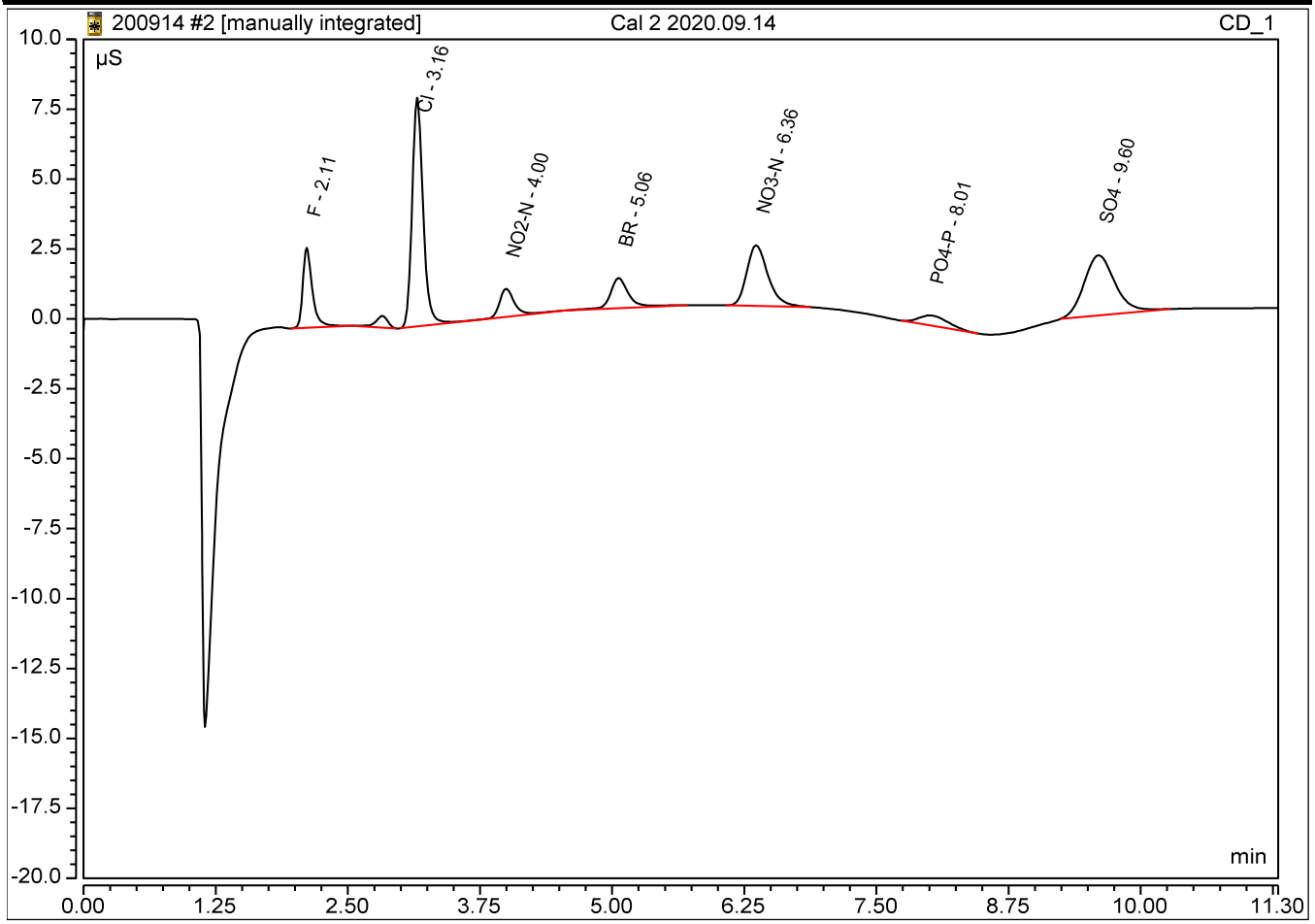


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 2 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:31**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	0.298	2.857	0.16	0.25	62.4%
3	3.16	**Cl**	BMB	0.983	8.183	1.09	1	108.8%
4	4.00	**NO2-N**	BMB	0.163	1.007	0.11	0.1	110.3%
5	5.06	**BR**	BMB	0.217	1.077	0.57	0.5	114.4%
6	6.36	**NO3-N**	BMB*	0.508	2.172	0.22	0.2	110.4%
7	8.01	**PO4-P**	BMB	0.118	0.358	0.76	0.5	151.6%
8	9.60	**SO4**	BMB*	0.732	2.158	1.10	1	109.7%

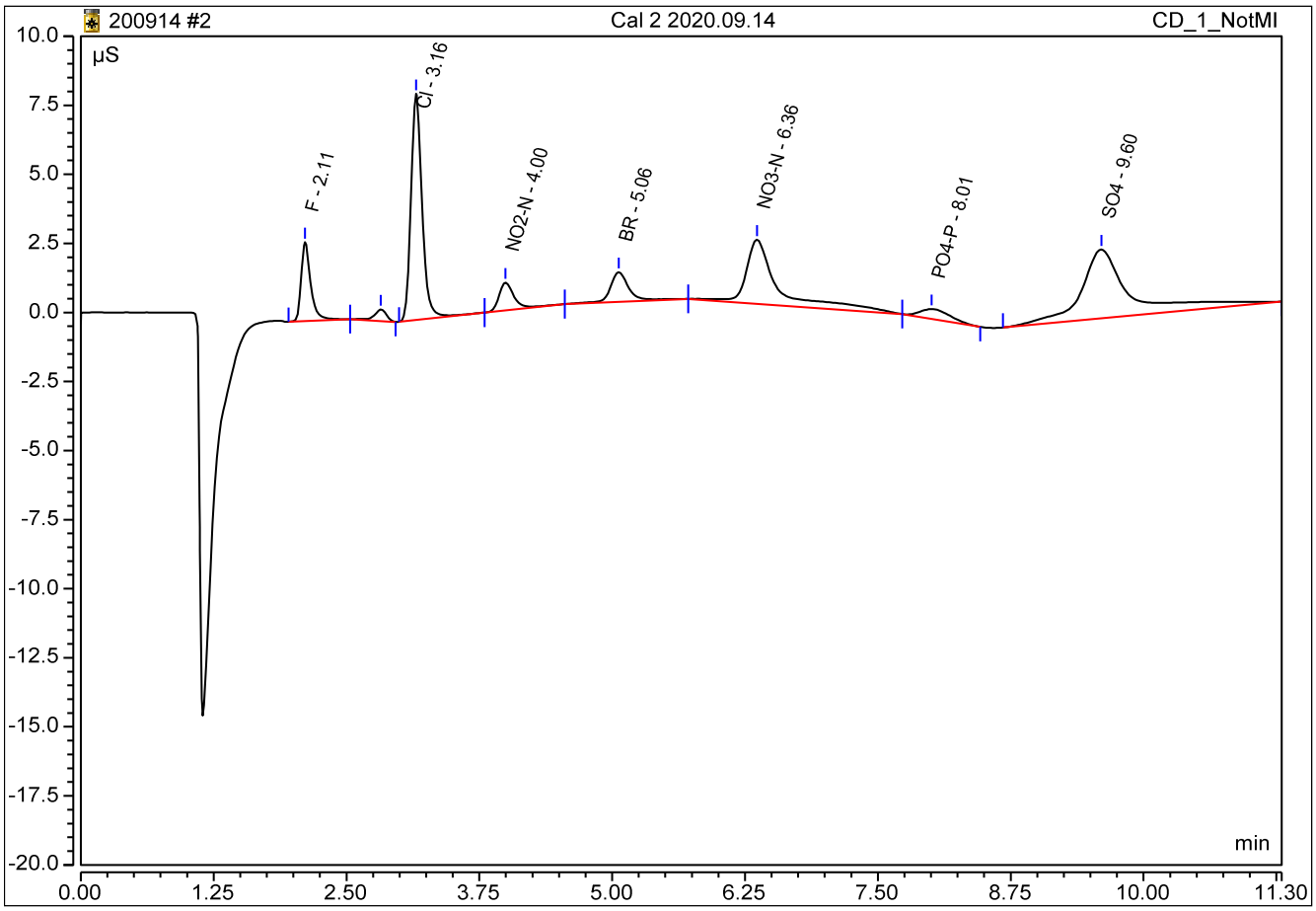


MI 5 F GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**Cal 2 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:31**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.11	**F**	BMB	0.298	2.857	0.1559
3	3.16	**Cl**	BMB	0.983	8.183	1.0882
4	4.00	**NO2-N**	BMB	0.163	1.007	0.1103
5	5.06	**BR**	BMB	0.217	1.077	0.5719
6	6.36	**NO3-N**	BMB*	0.803	2.321	0.3480
7	8.01	**PO4-P**	BMB	0.118	0.358	0.7435
8	9.60	**SO4**	BMB*	1.336	2.496	2.0007

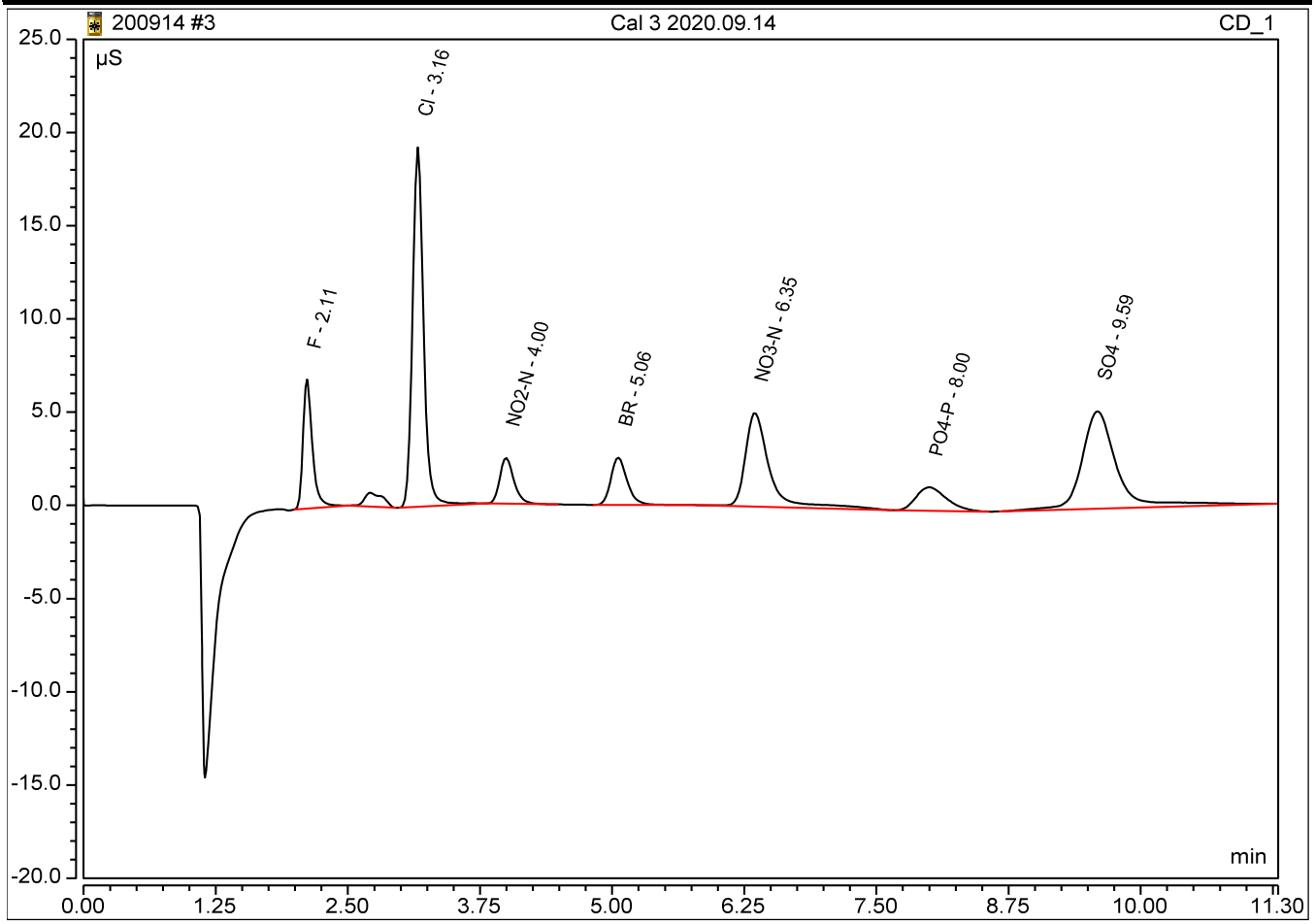


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 3 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:46**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	0.712	6.920	0.58	0.625	92.6%
3	3.16	**Cl**	BMB	2.321	19.279	2.57	2.5	102.8%
4	4.00	**NO2-N**	BMB	0.386	2.457	0.26	0.25	104.3%
5	5.06	**BR**	BMB	0.454	2.538	1.20	1.25	95.6%
6	6.35	**NO3-N**	BMB	1.347	5.037	0.59	0.5	117.0%
7	8.00	**PO4-P**	BMB	0.423	1.261	1.19	1.25	94.9%
8	9.59	**SO4**	BMB	2.022	5.227	3.03	2.5	121.1%

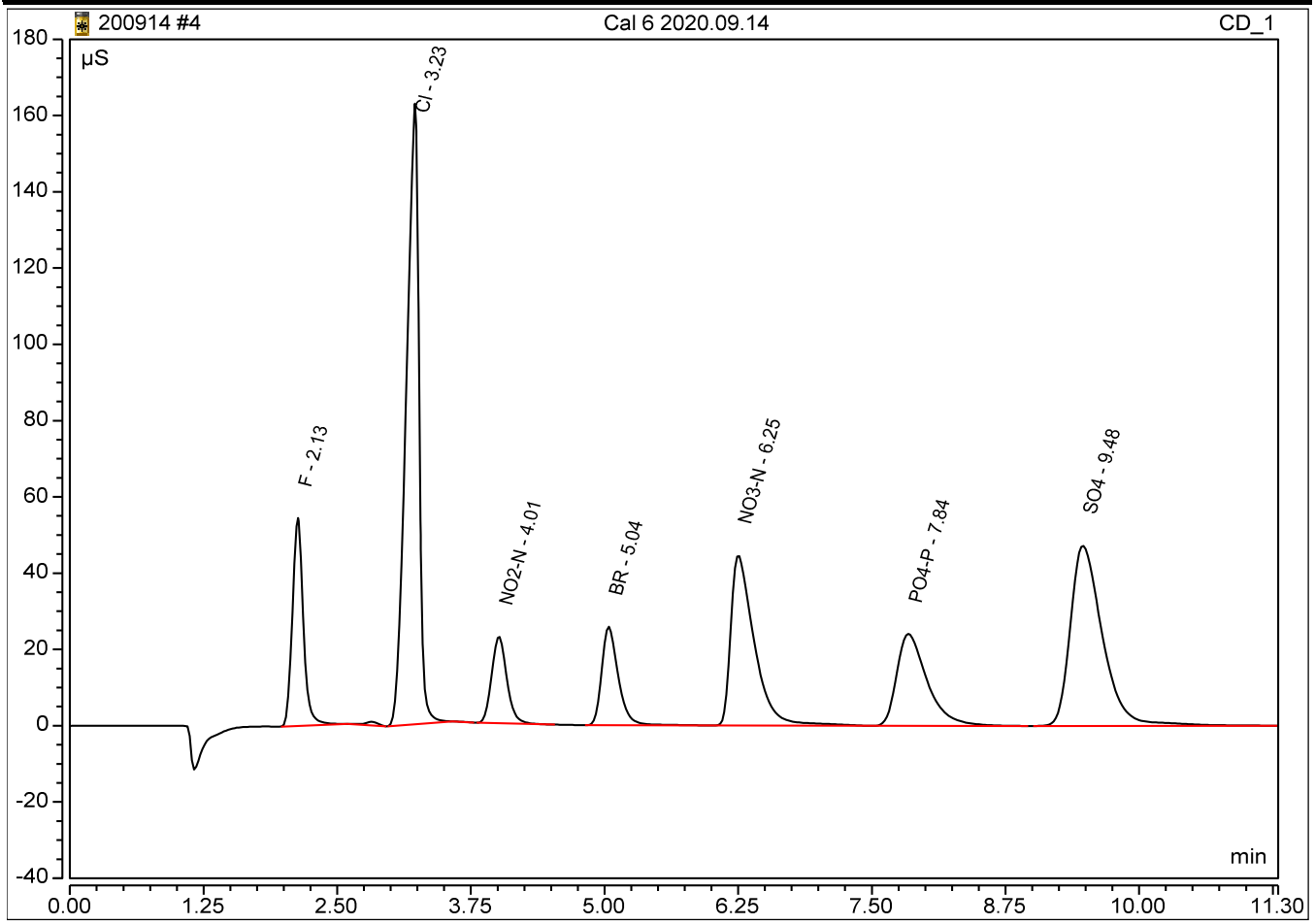


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 6 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 12:30**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.13	**F**	BMB	6.464	54.477	6.45	6.25	103.3%
3	3.23	**Cl**	BMB	22.440	162.678	24.84	25	99.4%
5	4.01	**NO2-N**	BMB	3.747	22.824	2.53	2.5	101.3%
6	5.04	**BR**	BMB	4.656	25.839	12.26	12.5	98.1%
7	6.25	**NO3-N**	BMB	11.419	44.646	4.96	5	99.2%
8	7.84	**PO4-P**	BMB	7.951	24.149	11.76	12.5	94.1%
9	9.48	**SO4**	BMB	16.472	47.232	24.67	25	98.7%

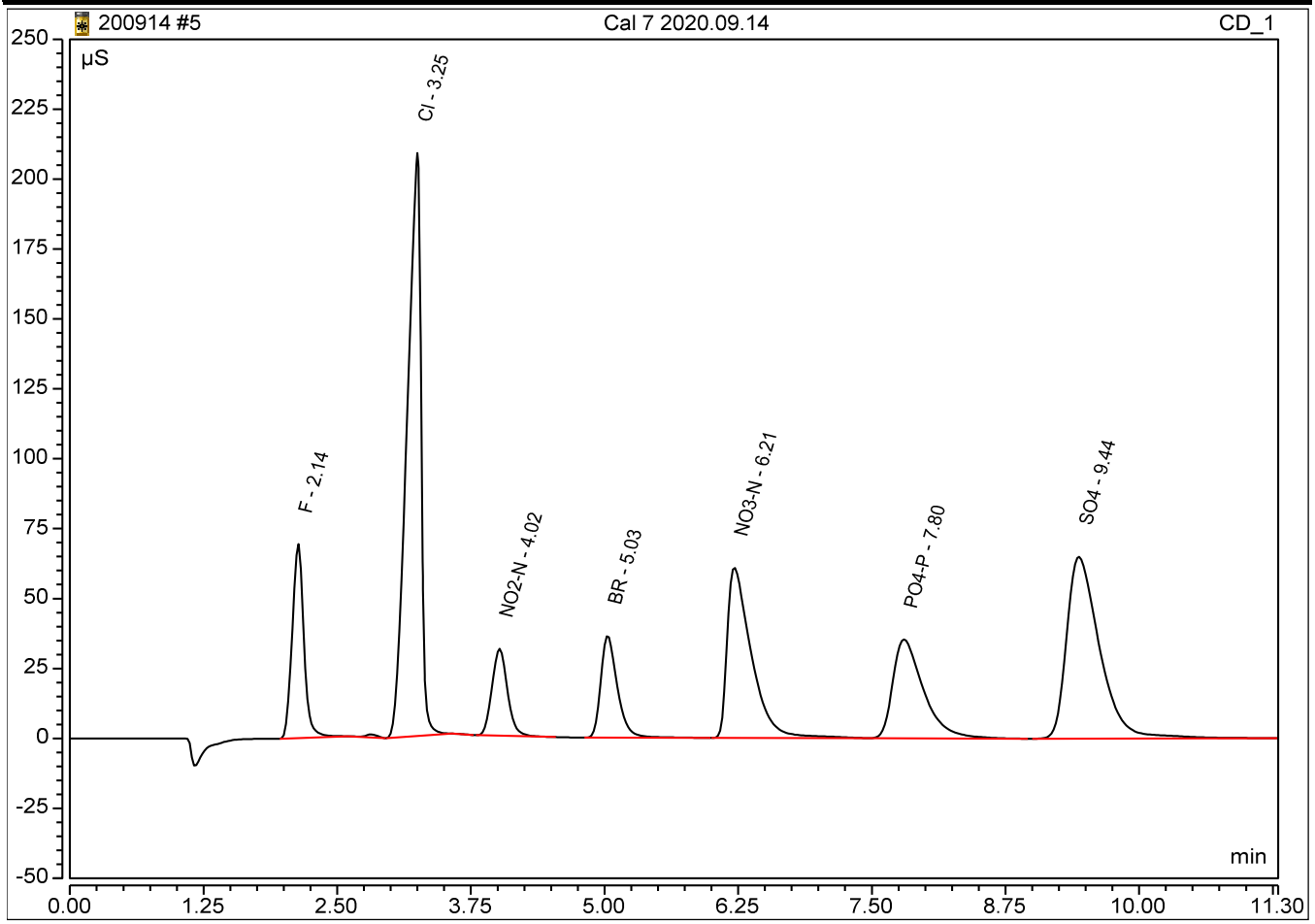


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 7 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 12:44**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.14	**F**	BMB	8.794	69.377	8.83	8.75	100.9%
3	3.25	**Cl**	BMB	31.505	208.470	34.87	35	99.6%
5	4.02	**NO2-N**	BMB	5.234	31.143	3.54	3.5	101.1%
6	5.03	**BR**	BMB	6.602	36.544	17.38	17.5	99.3%
7	6.21	**NO3-N**	BMB	16.022	60.982	6.96	7	99.4%
8	7.80	**PO4-P**	BMB	11.759	35.362	17.10	17.5	97.7%
9	9.44	**SO4**	BMB	23.196	65.073	34.74	35	99.2%

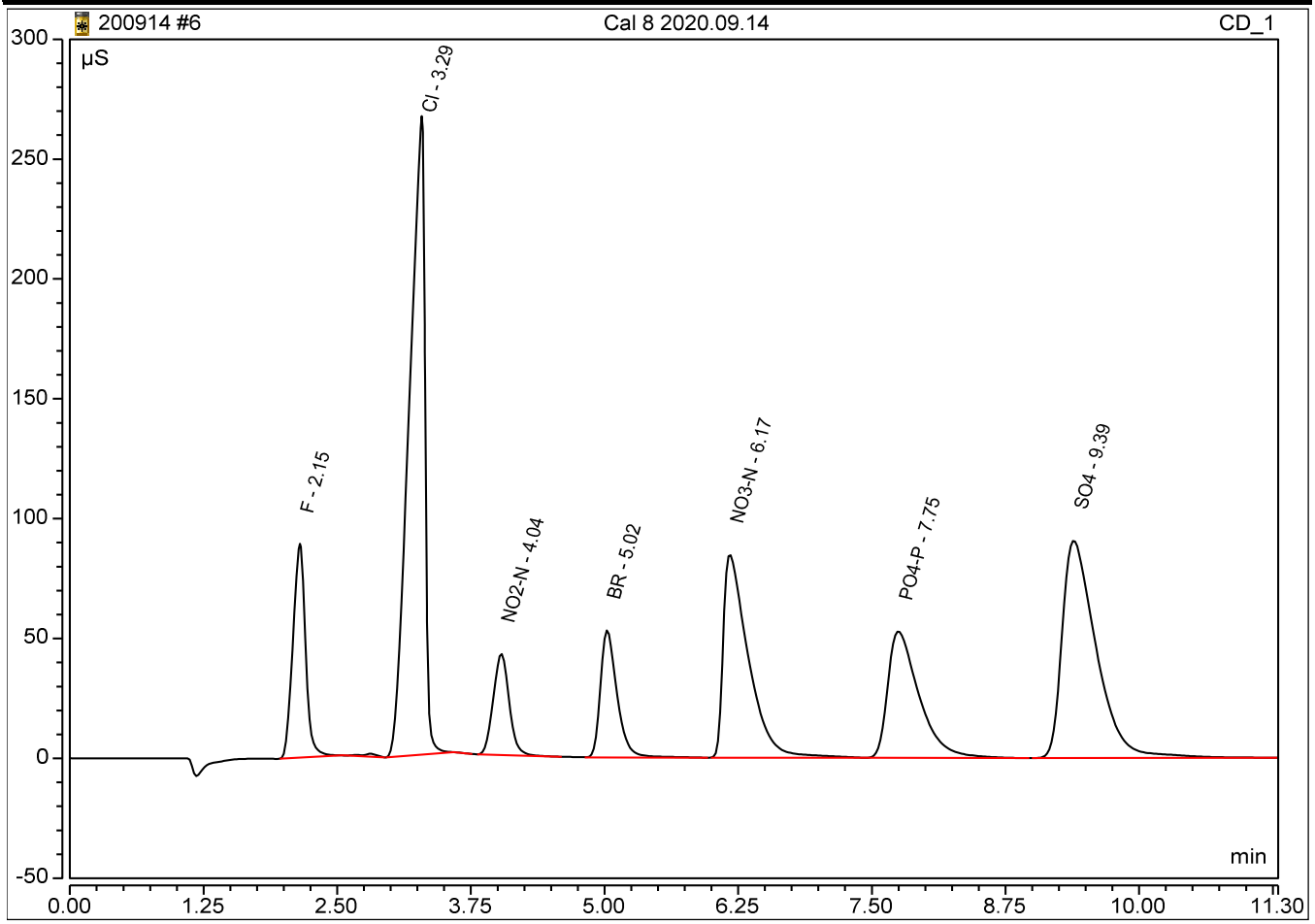


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 8 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 12:59**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.15	**F**	BMB	12.197	89.244	12.31	12.5	98.5%
3	3.29	**Cl**	BMB	45.336	266.470	50.18	50	100.4%
5	4.04	**NO2-N**	BMB	7.309	42.267	4.94	5	98.8%
6	5.02	**BR**	BMB	9.573	52.969	25.21	25	100.8%
7	6.17	**NO3-N**	BMB	23.155	84.819	10.06	10	100.6%
8	7.75	**PO4-P**	BMB	17.895	52.746	25.72	25	102.9%
9	9.39	**SO4**	BMB	33.597	90.716	50.31	50	100.6%

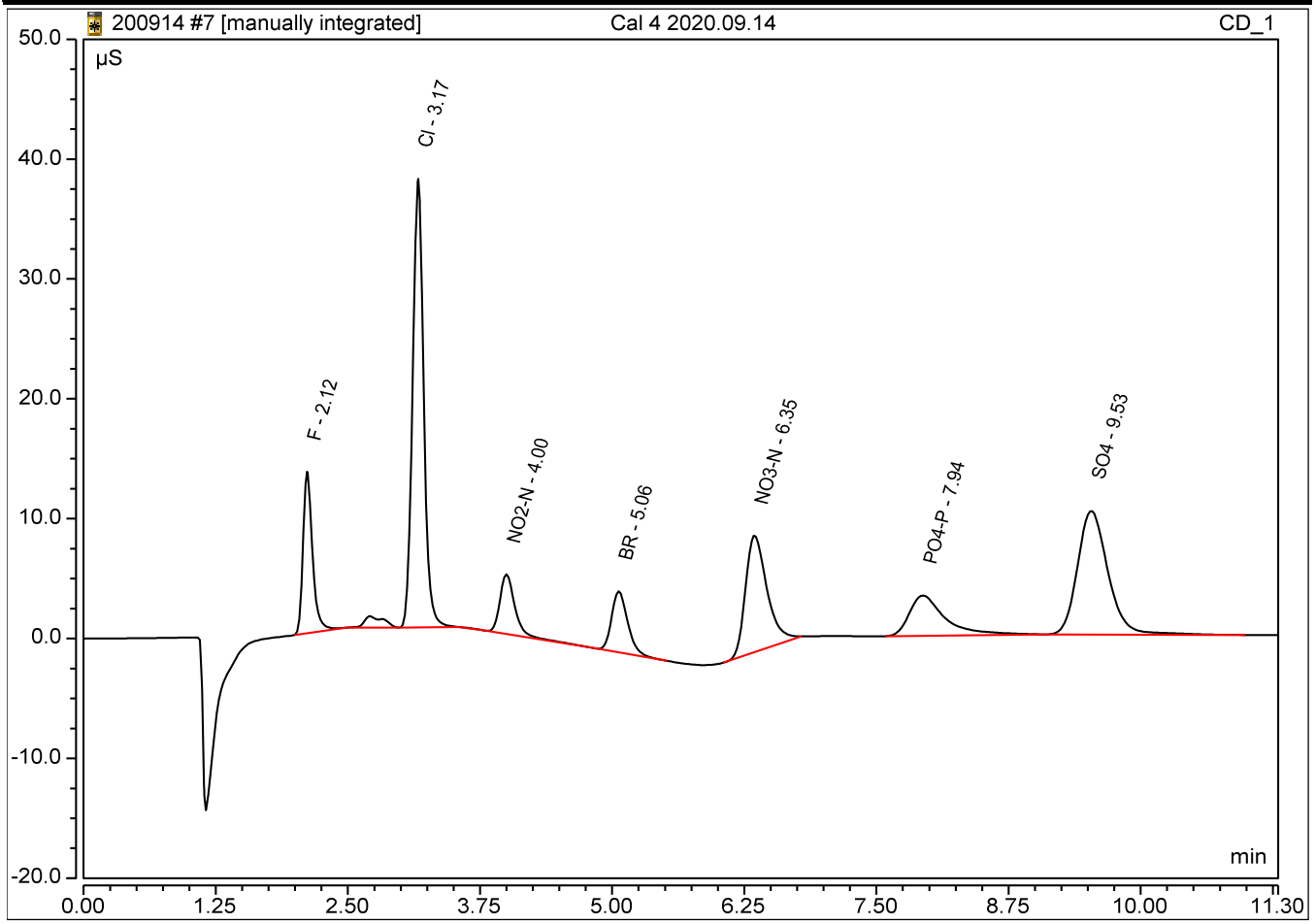


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 4 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 14:59**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.12	**F**	BMB	1.393	13.483	1.27	1.25	101.9%
3	3.17	**Cl**	BMB	4.523	37.438	5.01	5	100.1%
5	4.00	**NO2-N**	BMB	0.825	4.993	0.56	0.5	111.6%
6	5.06	**BR**	BMB	0.902	5.100	2.38	2.5	95.1%
7	6.35	**NO3-N**	BMB*	2.295	9.746	1.00	1	99.7%
8	7.94	**PO4-P**	BMB	1.327	3.365	2.46	2.5	98.2%
9	9.53	**SO4**	BMB	3.455	10.323	5.17	5	103.5%

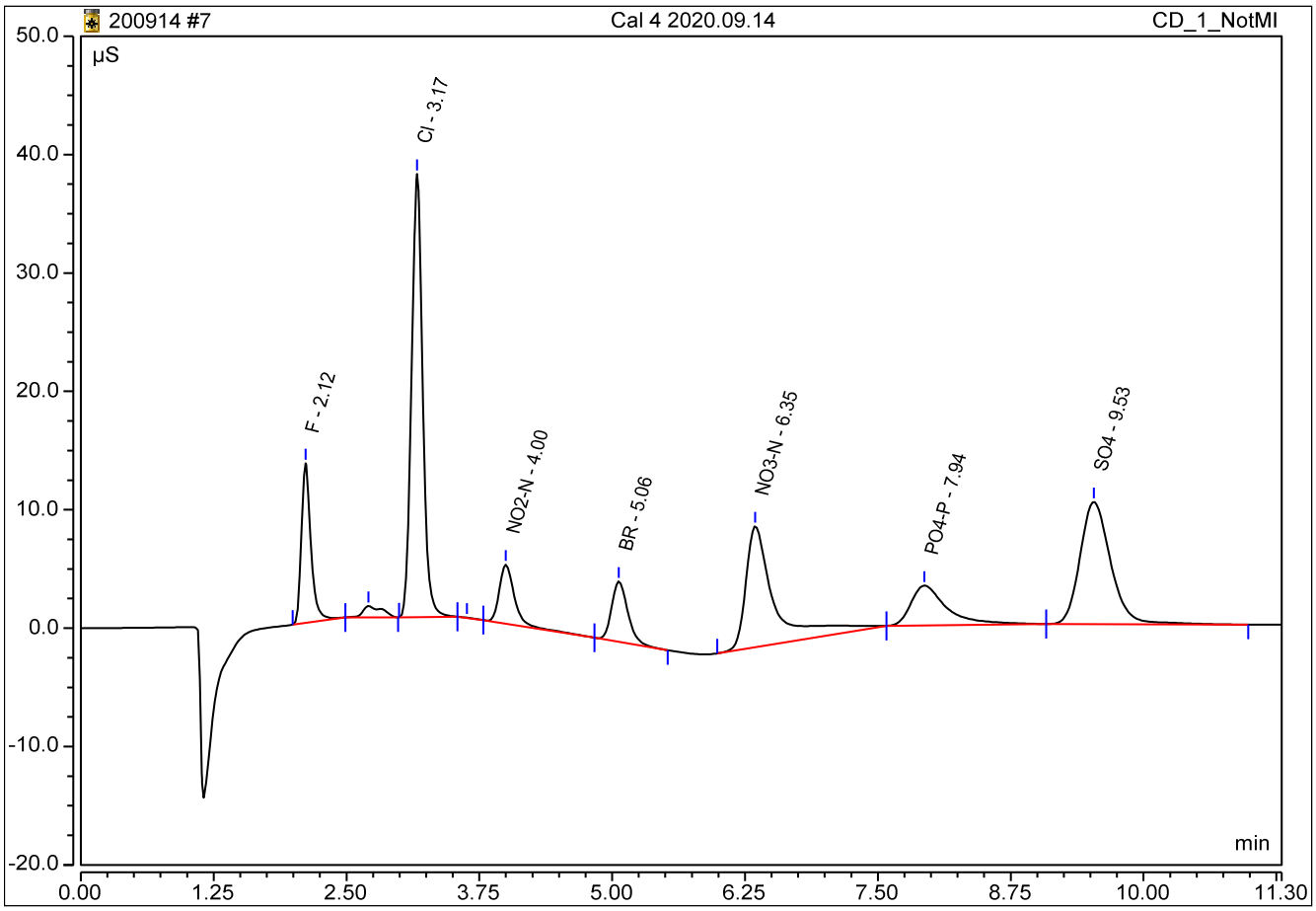


MI 5 NO3 GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**Cal 4 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 14:59**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.12	**F**	BMB	1.393	13.483	1.2743
3	3.17	**Cl**	BMB	4.523	37.438	5.0060
5	4.00	**NO2-N**	BMB	0.825	4.993	0.5579
6	5.06	**BR**	BMB	0.902	5.100	2.3764
7	6.35	**NO3-N**	BMB*	3.185	10.217	1.3799
8	7.94	**PO4-P**	BMB	1.327	3.365	2.4421
9	9.53	**SO4**	BMB	3.455	10.323	5.1723

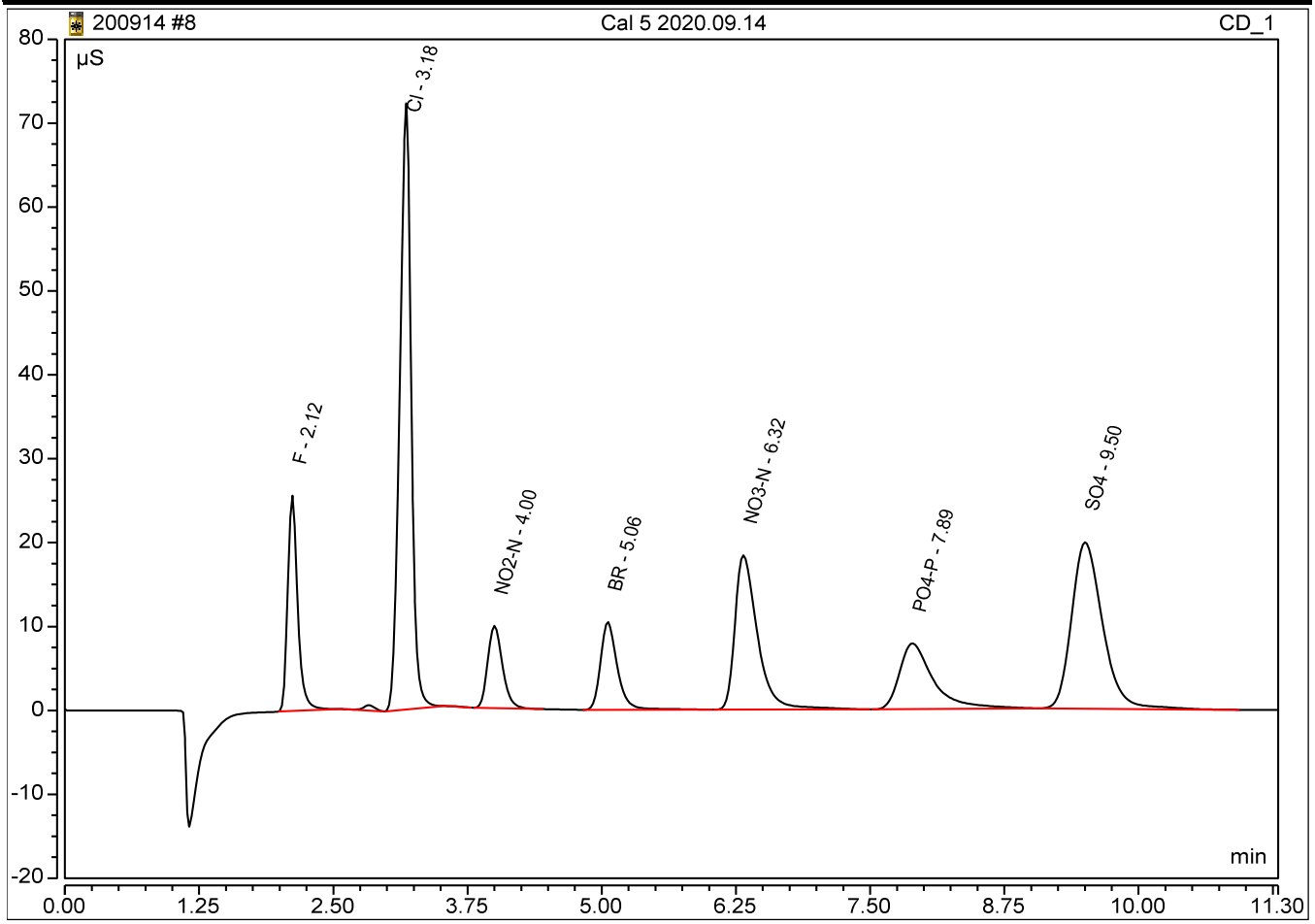


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 5 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:14**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.12	**F**	BMB	2.764	25.690	2.67	2.5	107.0%
3	3.18	**Cl**	BMB	8.950	72.239	9.91	10	99.1%
5	4.00	**NO2-N**	BMB	1.558	9.806	1.05	1	105.3%
6	5.06	**BR**	BMB	1.911	10.461	5.03	5	100.6%
7	6.32	**NO3-N**	BMB	4.496	18.415	1.95	2	97.6%
8	7.89	**PO4-P**	BMB	2.876	7.859	4.63	5	92.6%
9	9.50	**SO4**	BMB	6.650	19.846	9.96	10	99.6%

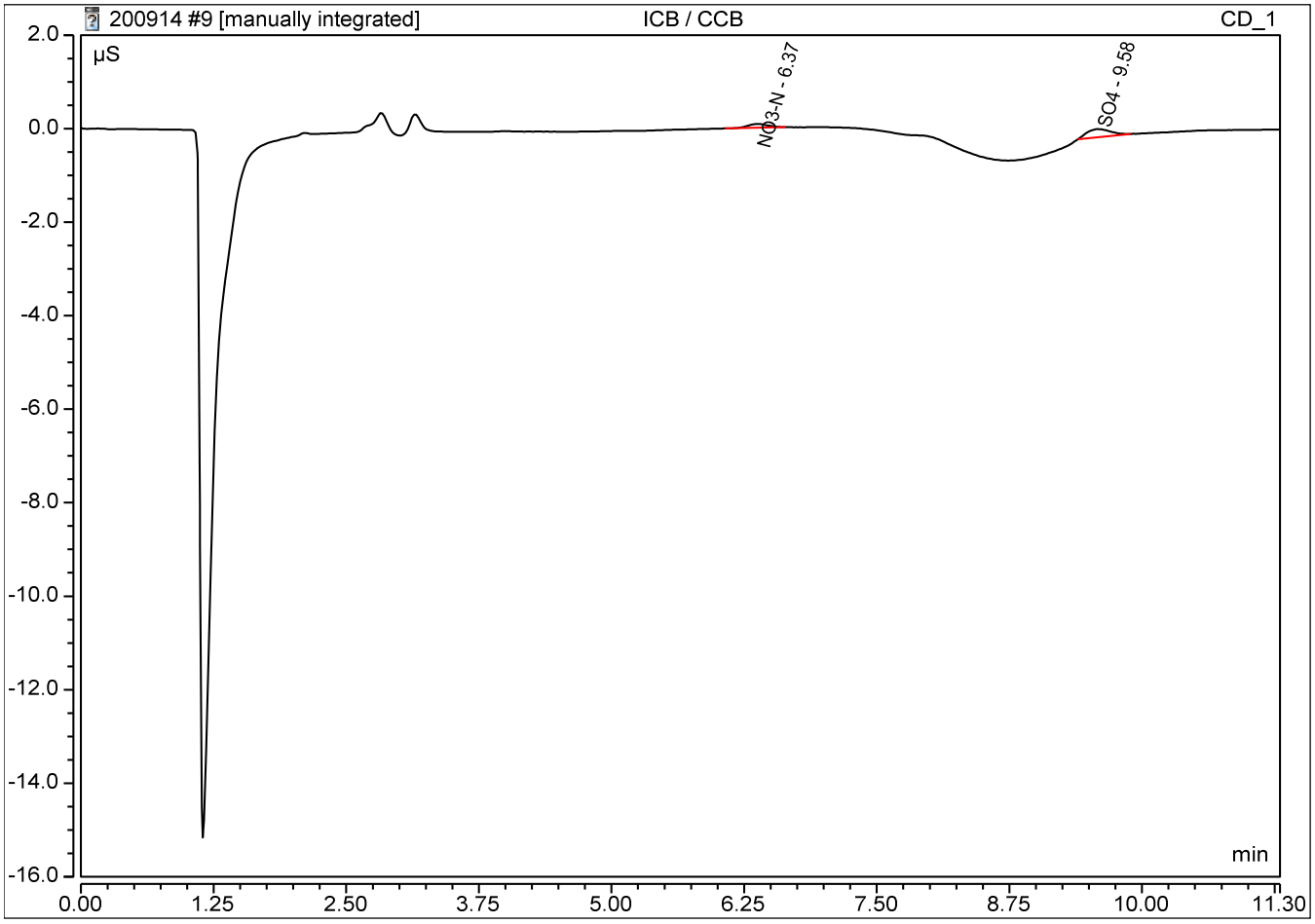


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**ICB / CCB**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:29**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	6.37	**NO3-N**	BMB*	0.017	0.081	0.01		
2	9.58	**SO4**	BMB*	0.046	0.175	0.07		

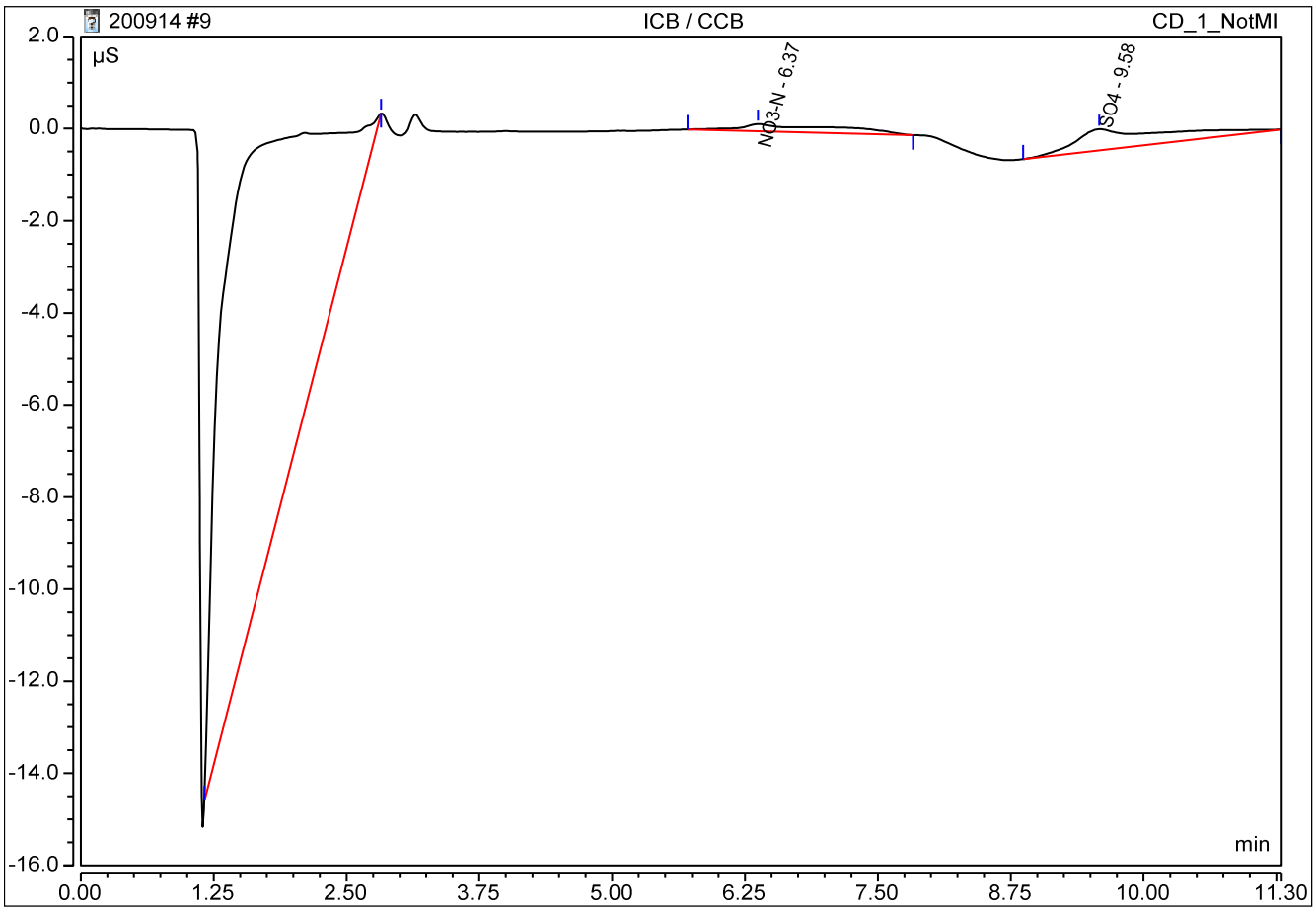


MI 5 F SO4 GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**ICB / CCB**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:29**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	6.37	**NO3-N**	BMB*	0.177	0.155	0.0769
2	9.58	**SO4**	BMB*	0.456	0.464	0.6832

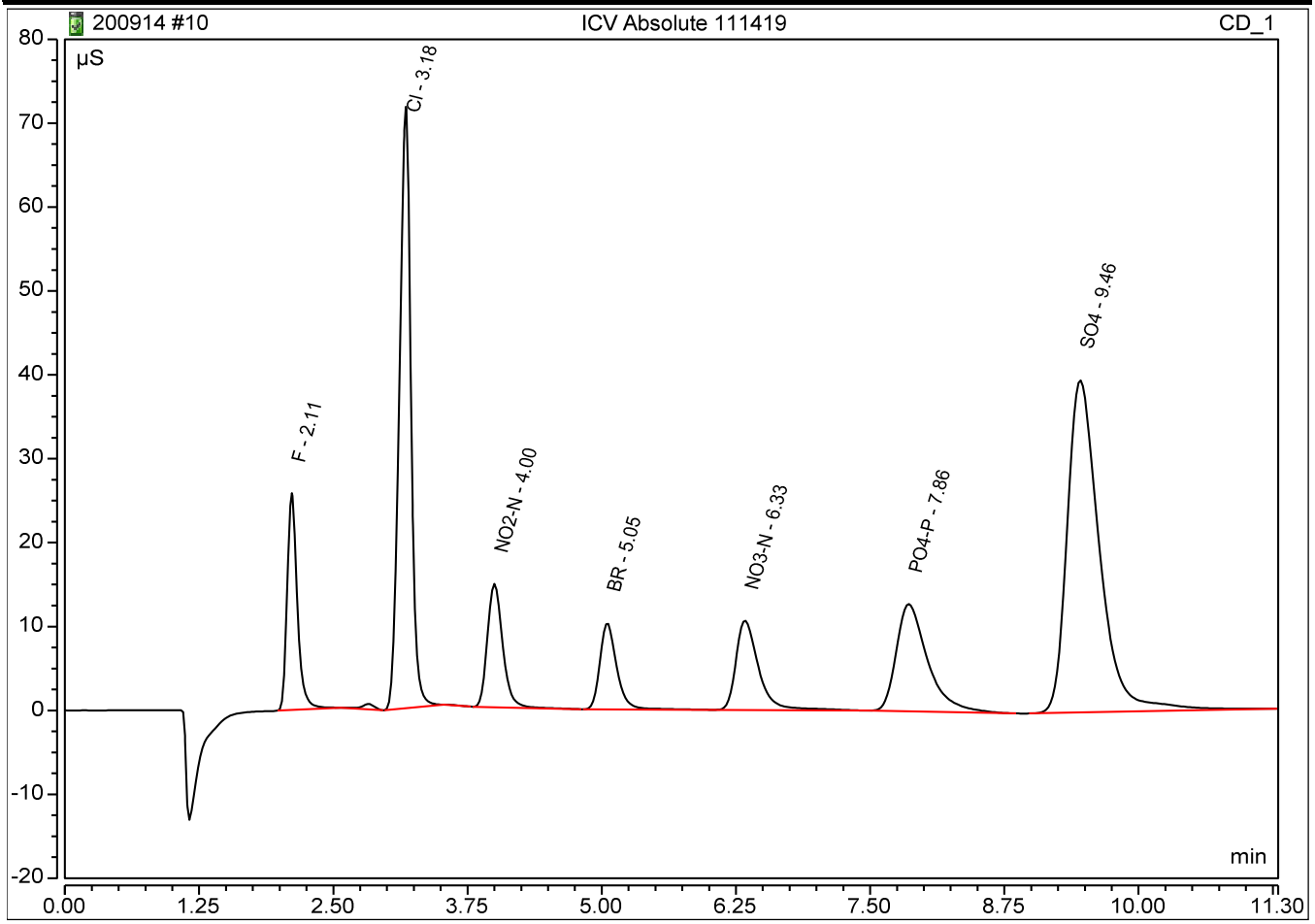


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**ICV Absolute 111419**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:43**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	2.829	25.835	2.74	2.5	109.6%
3	3.18	**Cl**	BMB	8.963	71.696	9.92	10	99.2%
5	4.00	**NO2-N**	BMB	2.425	14.715	1.64	1.522334	107.7%
6	5.05	**BR**	BMB	1.878	10.287	4.95	5	98.9%
7	6.33	**NO3-N**	BMB	2.618	10.656	1.14	1.129525	100.7%
8	7.86	**PO4-P**	BMB	4.336	12.817	6.68	6.522	102.4%
9	9.46	**SO4**	BMB	13.880	39.594	20.79	20	103.9%

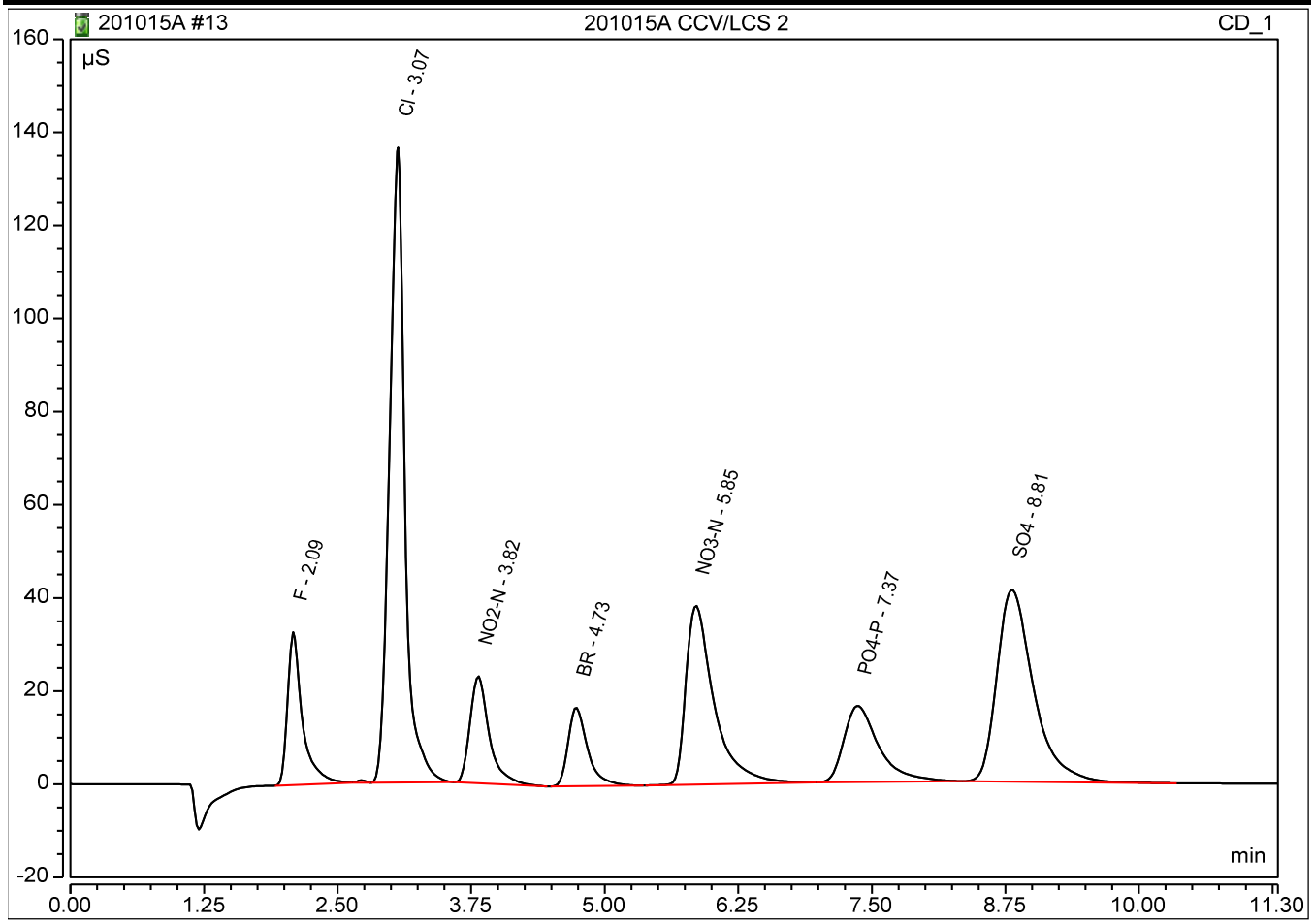


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**201015A CCV/LCS 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 11:36**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.09	**F**	BMB	5.307	32.824	5.27	5	105.4%
3	3.07	**Cl**	BMB	22.471	136.377	24.87	25	99.5%
4	3.82	**NO2-N**	BMB	4.829	23.015	3.26	3.04	107.4%
5	4.73	**BR**	BMB	3.589	16.883	9.45	10	94.5%
6	5.85	**NO3-N**	BMB	11.736	38.409	5.10	5	101.9%
7	7.37	**PO4-P**	BMB	6.156	16.345	9.24	10	92.4%
8	8.81	**SO4**	BMB	16.325	41.224	24.45	25	97.8%

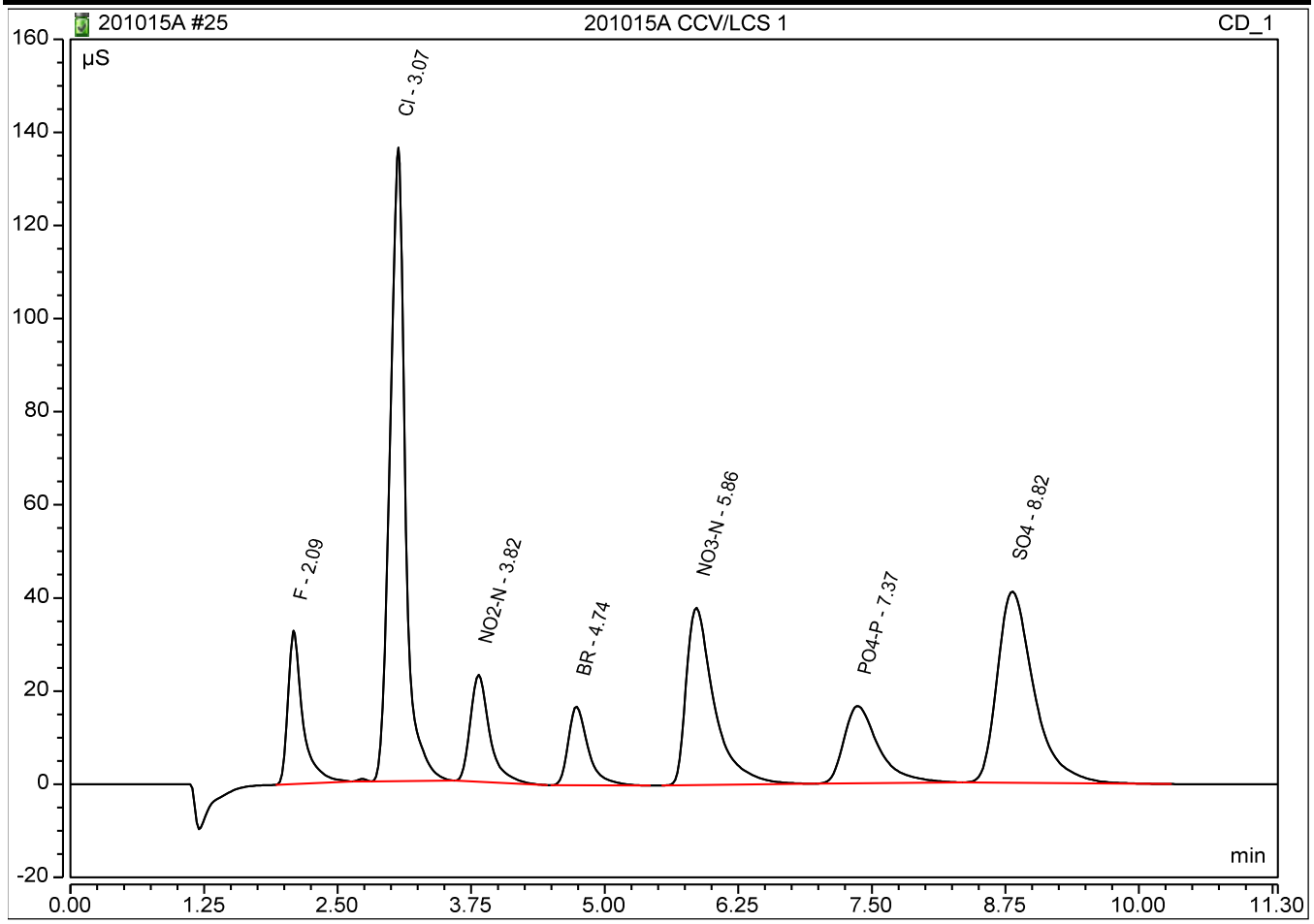


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**201015A CCV/LCS 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 15:06**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.09	**F**	BMB	5.322	32.951	5.29	5	105.7%
3	3.07	**Cl**	BMB	22.554	136.094	24.96	25	99.9%
4	3.82	**NO2-N**	BMB	4.842	23.029	3.27	3.04	107.7%
5	4.74	**BR**	BMB	3.661	16.920	9.64	10	96.4%
6	5.86	**NO3-N**	BMB	11.612	38.093	5.04	5	100.9%
7	7.37	**PO4-P**	BMB	6.259	16.625	9.38	10	93.8%
8	8.82	**SO4**	BMB	16.370	41.109	24.51	25	98.1%

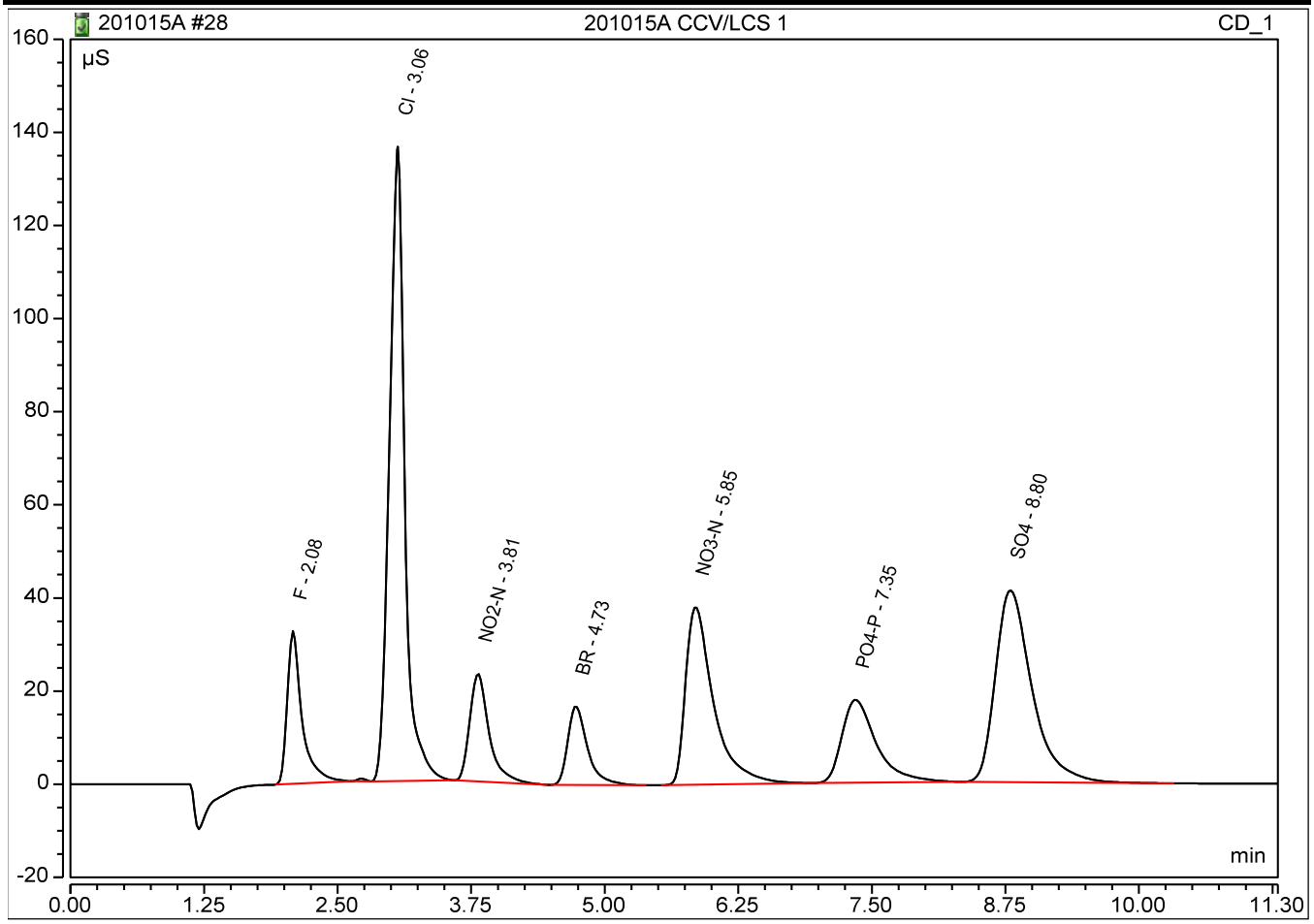


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**201015A CCV/LCS 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 15:50**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.08	**F**	BMB	5.284	32.875	5.25	5	105.0%
3	3.06	**Cl**	BMB	22.526	136.223	24.93	25	99.7%
4	3.81	**NO2-N**	BMB	4.863	23.130	3.29	3.04	108.1%
5	4.73	**BR**	BMB	3.636	16.940	9.57	10	95.7%
6	5.85	**NO3-N**	BMB	11.650	38.205	5.06	5	101.2%
7	7.35	**PO4-P**	BMB	6.670	17.831	9.96	10	99.6%
8	8.80	**SO4**	BMB	16.357	41.203	24.50	25	98.0%

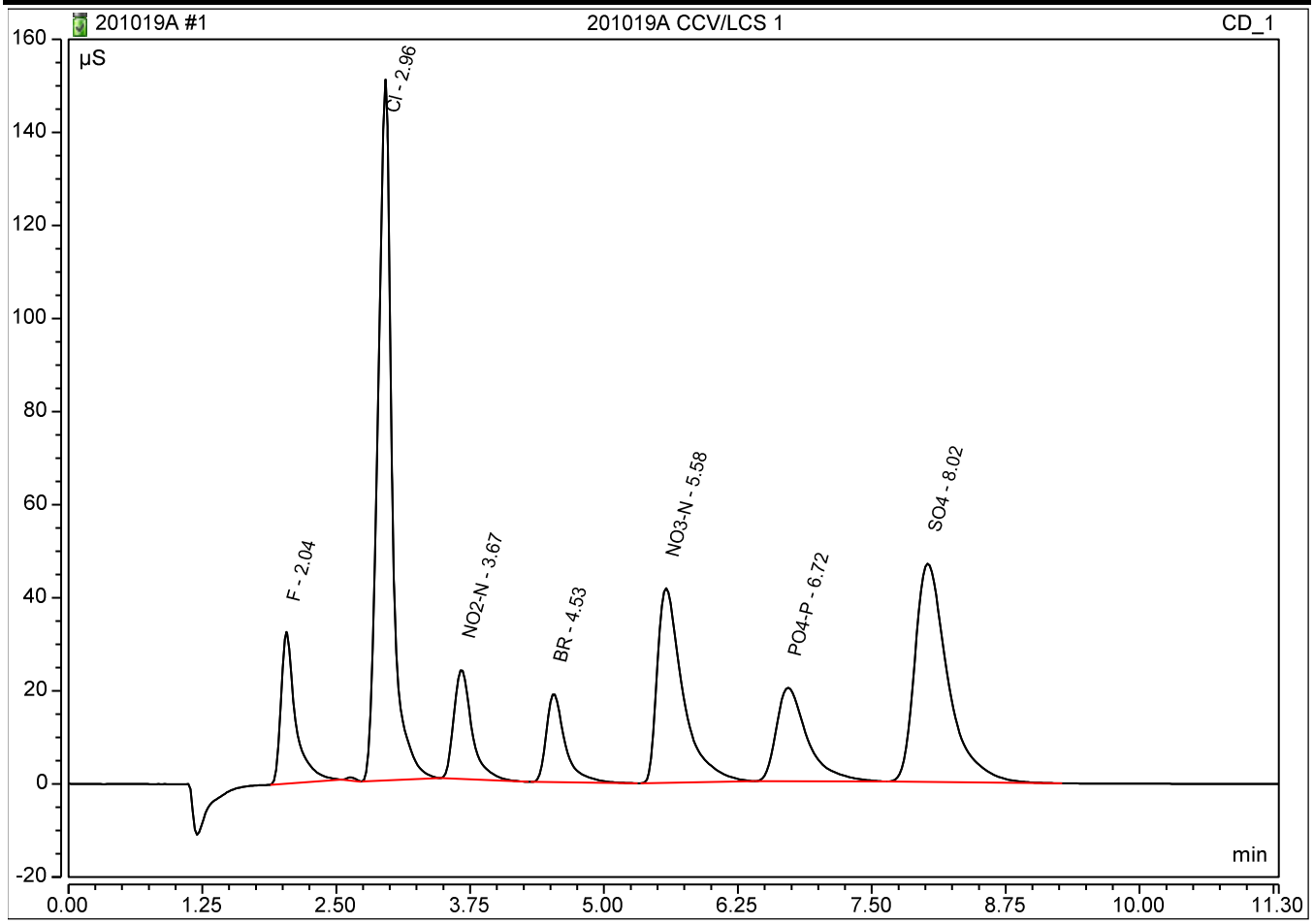


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201019A

Peak Integration Report

Sample Name:	**201019A CCV/LCS 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**19-Oct-2020 / 10:07**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.04	**F**	BMB	5.163	32.567	5.12	5	102.5%
3	2.96	**Cl**	BMB	23.003	150.598	25.46	25	101.8%
4	3.67	**NO2-N**	BMB	4.606	23.547	3.11	3.04	102.4%
5	4.53	**BR**	BMB	3.866	19.033	10.18	10	101.8%
6	5.58	**NO3-N**	BMB	11.653	41.827	5.06	5	101.2%
7	6.72	**PO4-P**	BMB	6.728	20.099	10.04	10	100.4%
8	8.02	**SO4**	BMB	16.759	46.922	25.10	25	100.4%

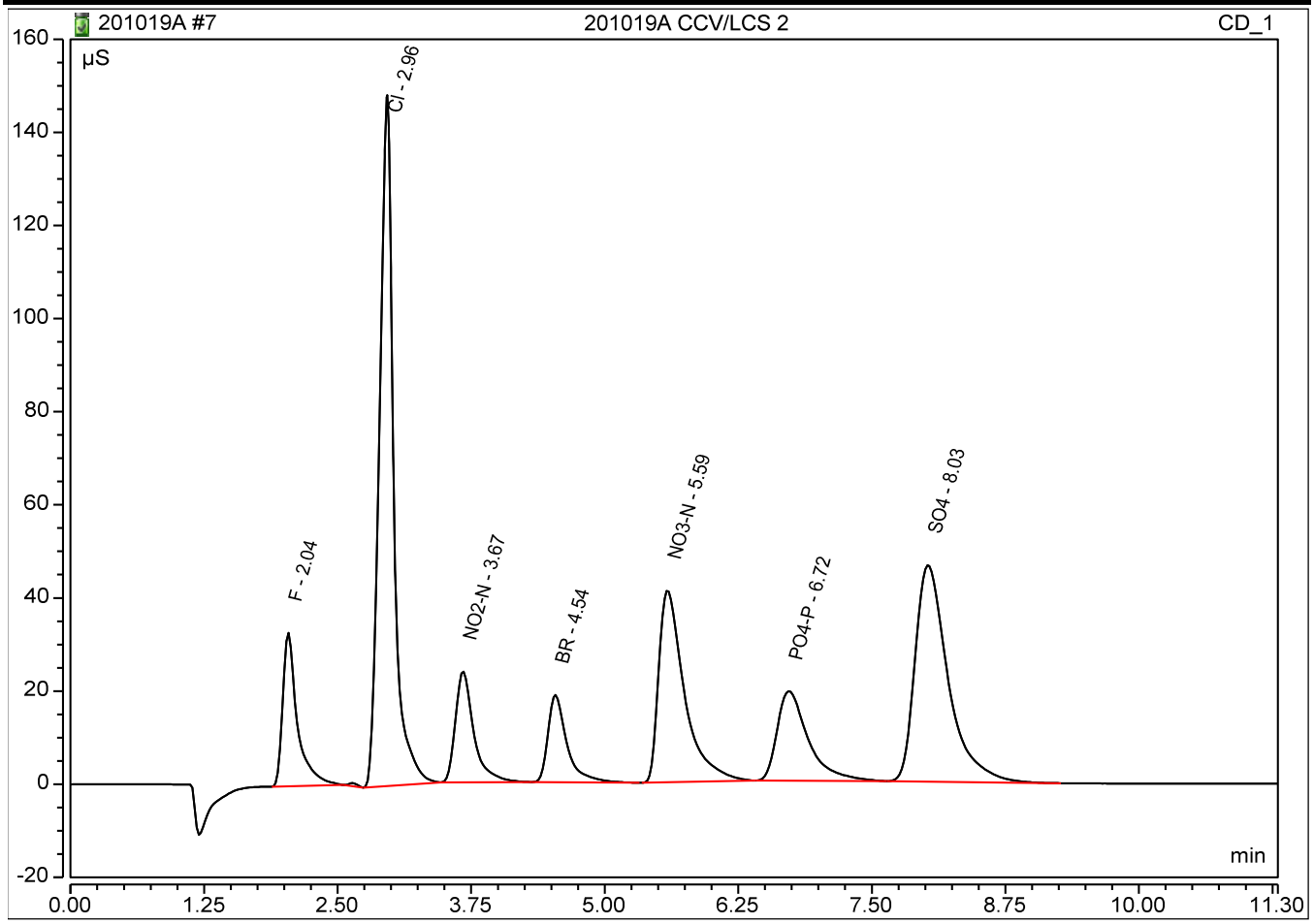


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201019A

Peak Integration Report

Sample Name:	**201019A CCV/LCS 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**19-Oct-2020 / 11:35**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.04	**F**	BMB	5.214	33.020	5.18	5	103.5%
3	2.96	**Cl**	BMB	22.618	148.351	25.04	25	100.1%
4	3.67	**NO2-N**	BMB	4.736	23.804	3.20	3.04	105.3%
5	4.54	**BR**	BMB	3.857	18.778	10.16	10	101.6%
6	5.59	**NO3-N**	BMB	11.527	41.241	5.01	5	100.1%
7	6.72	**PO4-P**	BMB	6.493	19.254	9.71	10	97.1%
8	8.03	**SO4**	BMB	16.662	46.541	24.95	25	99.8%

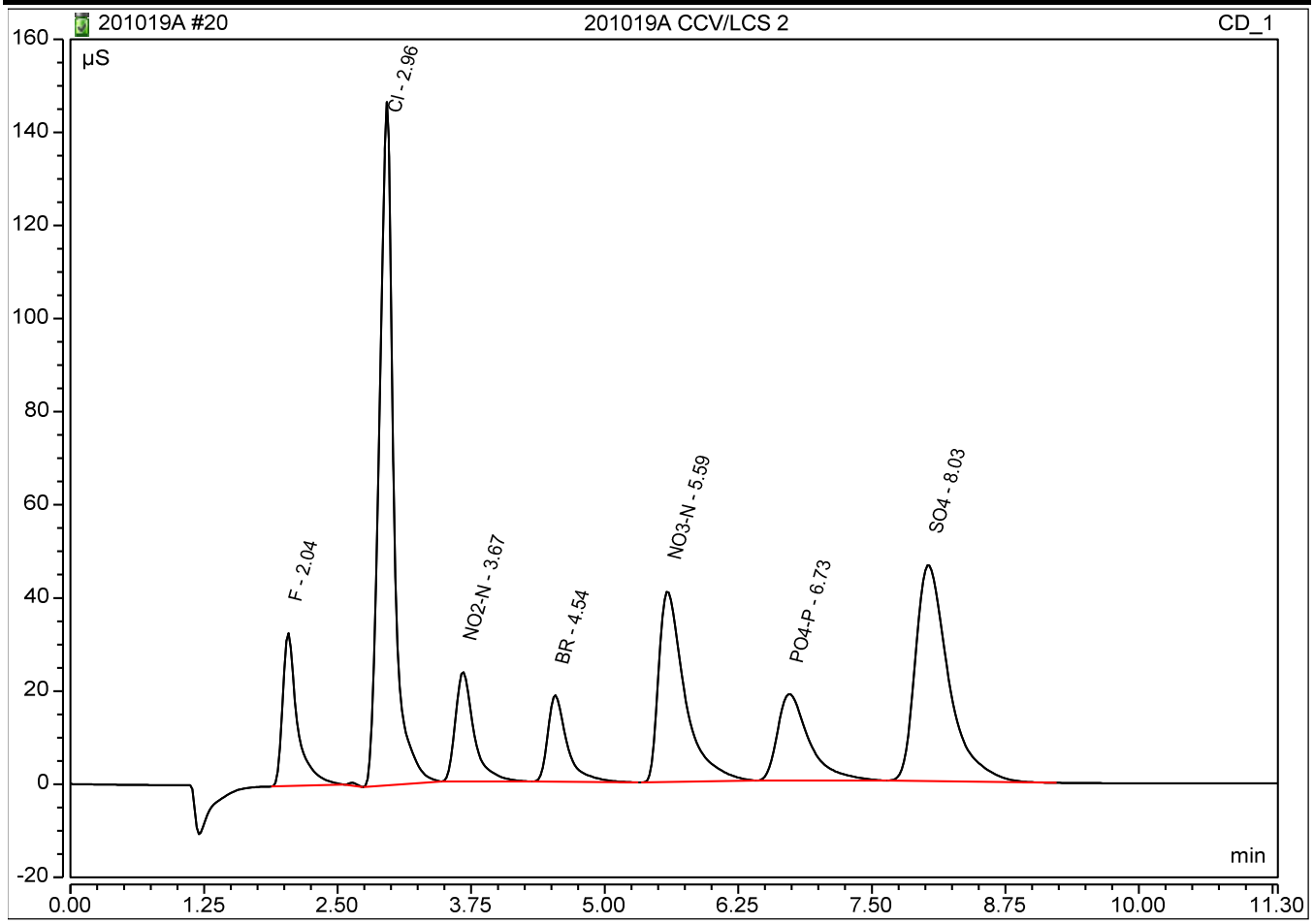


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201019A

Peak Integration Report

Sample Name:	**201019A CCV/LCS 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**19-Oct-2020 / 14:45**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.04	**F**	BMB	5.269	32.935	5.23	5	104.7%
3	2.96	**Cl**	BMB	22.810	146.799	25.25	25	101.0%
4	3.67	**NO2-N**	BMB	4.773	23.595	3.23	3.04	106.1%
5	4.54	**BR**	BMB	3.901	18.632	10.27	10	102.7%
6	5.59	**NO3-N**	BMB	11.661	40.989	5.06	5	101.3%
7	6.73	**PO4-P**	BMB	6.383	18.606	9.56	10	95.6%
8	8.03	**SO4**	BMB	16.738	46.461	25.07	25	100.3%

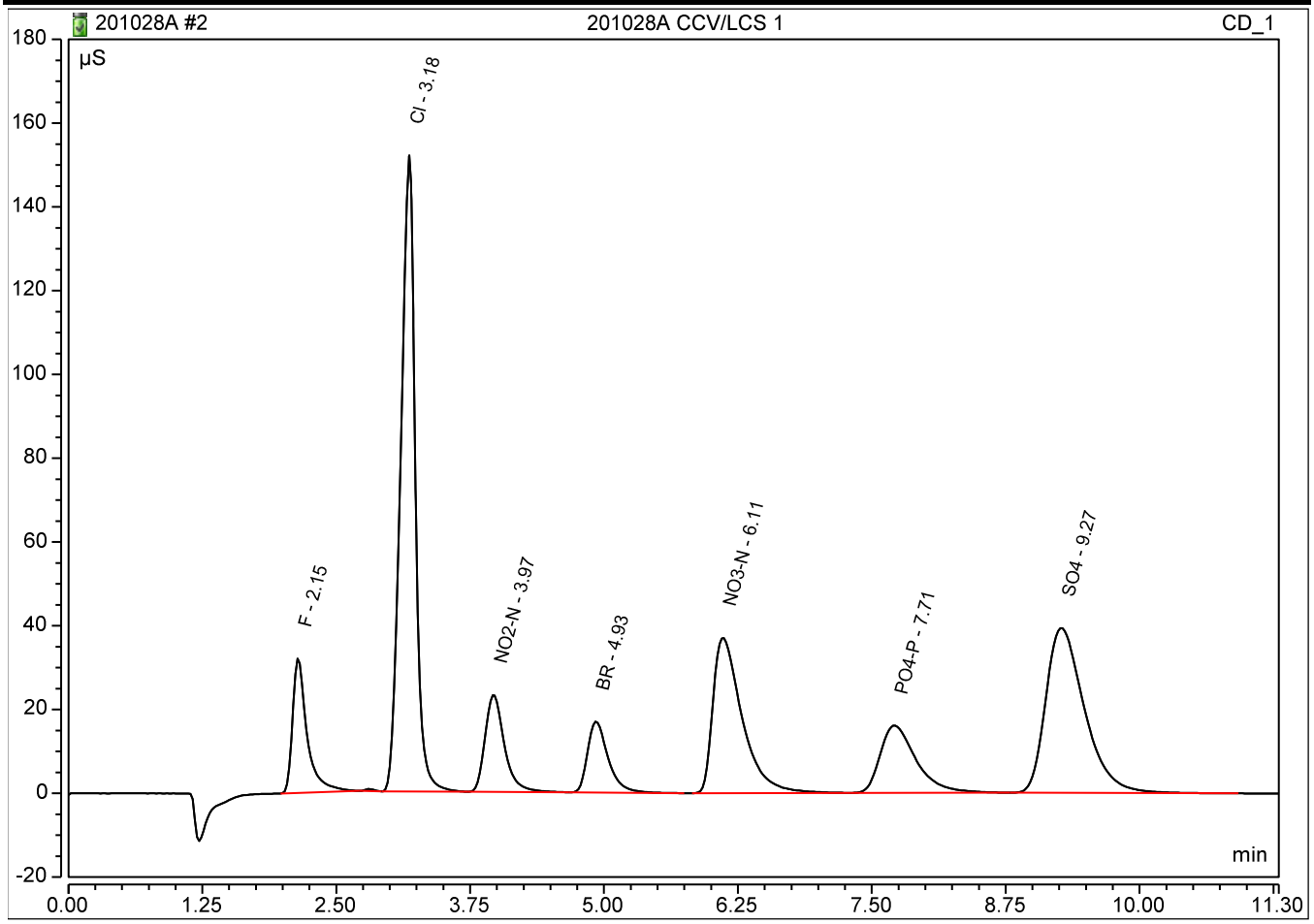


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201028A

Peak Integration Report

Sample Name:	**201028A CCV/LCS 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**28-Oct-2020 / 12:33**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.15	**F**	BMB	5.052	32.246	5.01	5	100.2%
3	3.18	**Cl**	BMB	23.768	151.873	26.31	25	105.2%
4	3.97	**NO2-N**	BMB	4.866	23.249	3.29	3.04	108.2%
5	4.93	**BR**	BMB	3.767	16.923	9.92	10	99.2%
6	6.11	**NO3-N**	BMB	11.723	37.117	5.09	5	101.8%
7	7.71	**PO4-P**	BMB	6.245	16.093	9.36	10	93.6%
8	9.27	**SO4**	BMB	16.506	39.364	24.72	25	98.9%

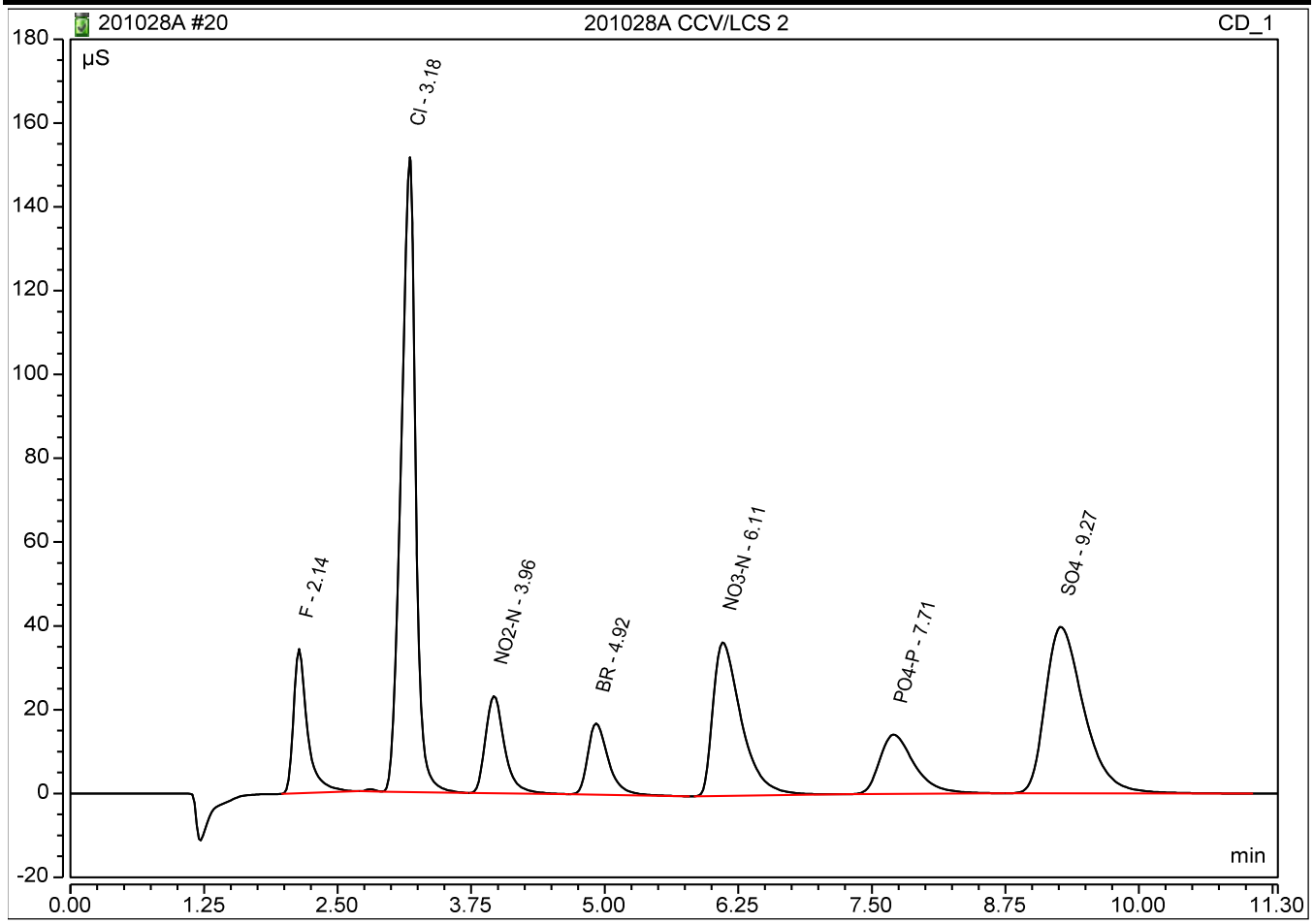


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201028A

Peak Integration Report

Sample Name:	**201028A CCV/LCS 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**28-Oct-2020 / 17:04**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.14	**F**	BMB	5.230	34.408	5.19	5	103.9%
3	3.18	**Cl**	BMB	23.766	151.514	26.31	25	105.2%
4	3.96	**NO2-N**	BMB	4.816	23.216	3.25	3.04	107.1%
5	4.92	**BR**	BMB	3.794	17.005	9.99	10	99.9%
6	6.11	**NO3-N**	BMB	11.296	36.681	4.91	5	98.1%
7	7.71	**PO4-P**	BMB	5.355	14.128	8.11	10	81.1%
8	9.27	**SO4**	BMB	16.638	39.740	24.92	25	99.7%

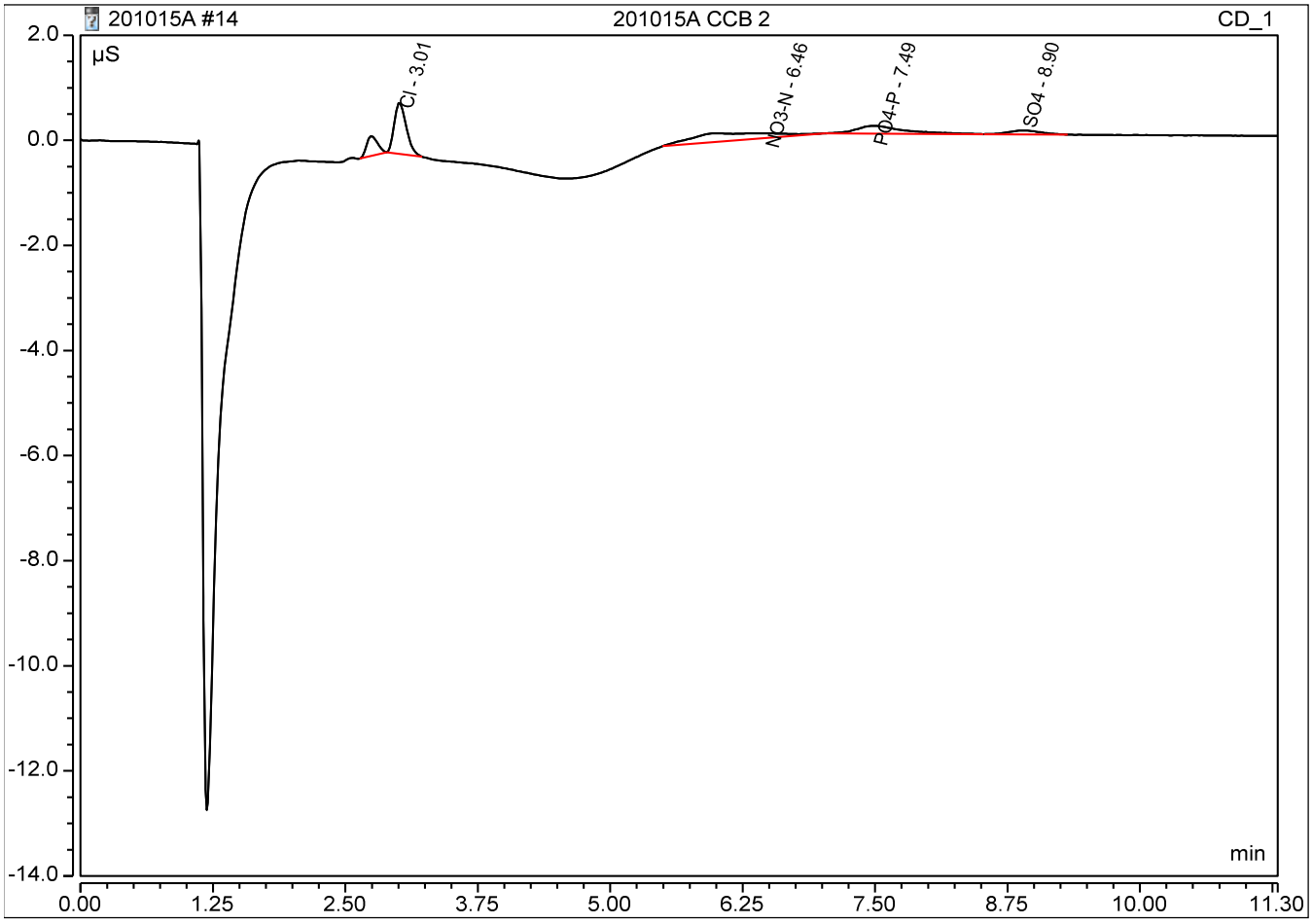


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**201015A CCB 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 11:51**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	3.01	**Cl**	BMB	0.130	0.981	0.14		
3	6.46	**NO3-N**	BMB	0.129	0.093	0.06		
4	7.49	**PO4-P**	BMB	0.078	0.149	0.70		
5	8.90	**SO4**	BMB	0.026	0.075	0.04		

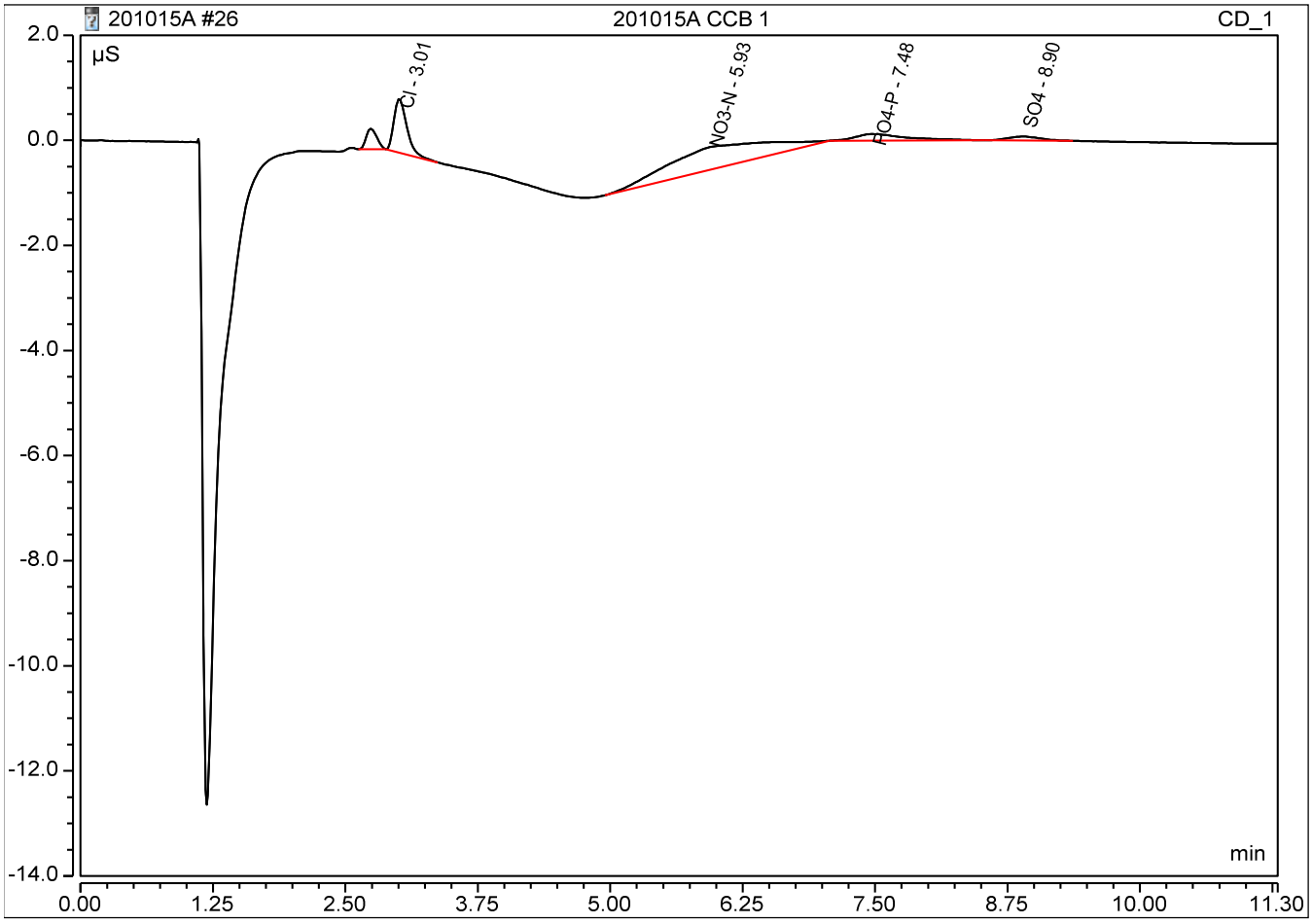


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**201015A CCB 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 15:21**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	3.01	**Cl**	BMB	0.147	1.032	0.16		
3	5.93	**NO3-N**	BMB	0.482	0.432	0.21		
4	7.48	**PO4-P**	BMB	0.070	0.127	0.69		
5	8.90	**SO4**	BMB	0.027	0.077	0.04		

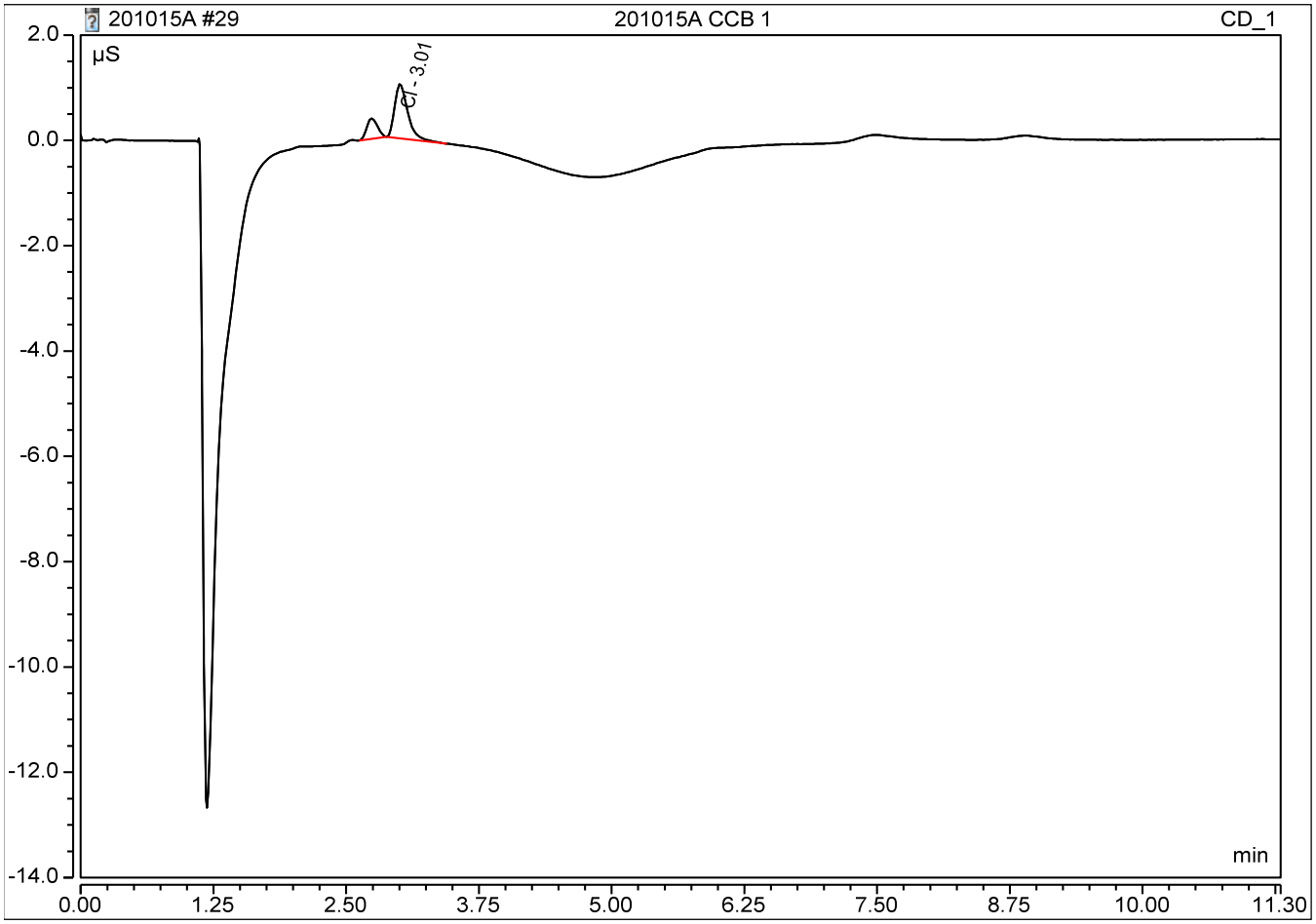


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**201015A CCB 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 16:05**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	3.01	**Cl**	BMB	0.150	1.036	0.17		

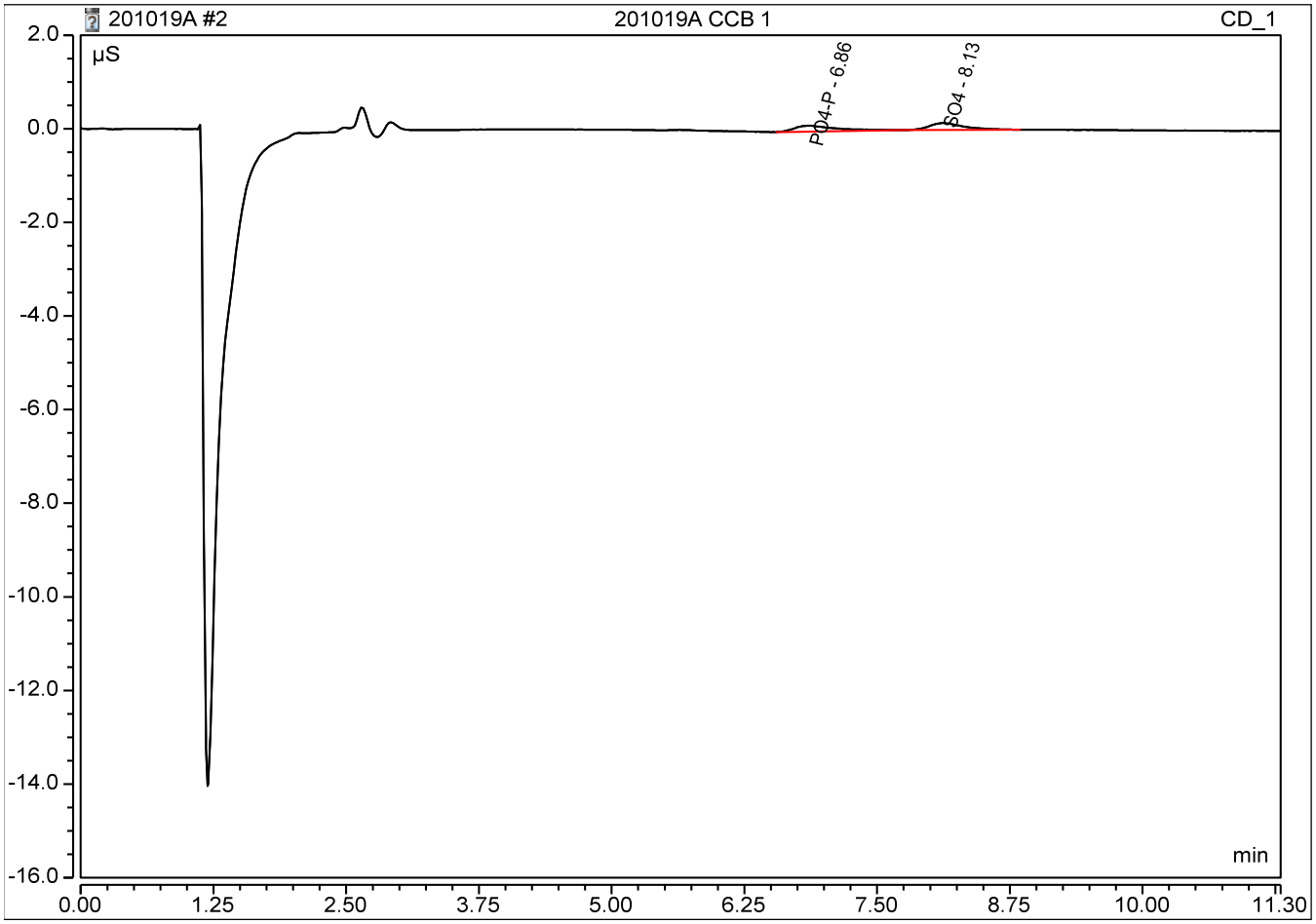


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201019A

Peak Integration Report

Sample Name:	**201019A CCB 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**19-Oct-2020 / 10:21**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	6.86	**PO4-P**	BMB	0.058	0.126	0.67		
2	8.13	**SO4**	BMB	0.056	0.149	0.08		

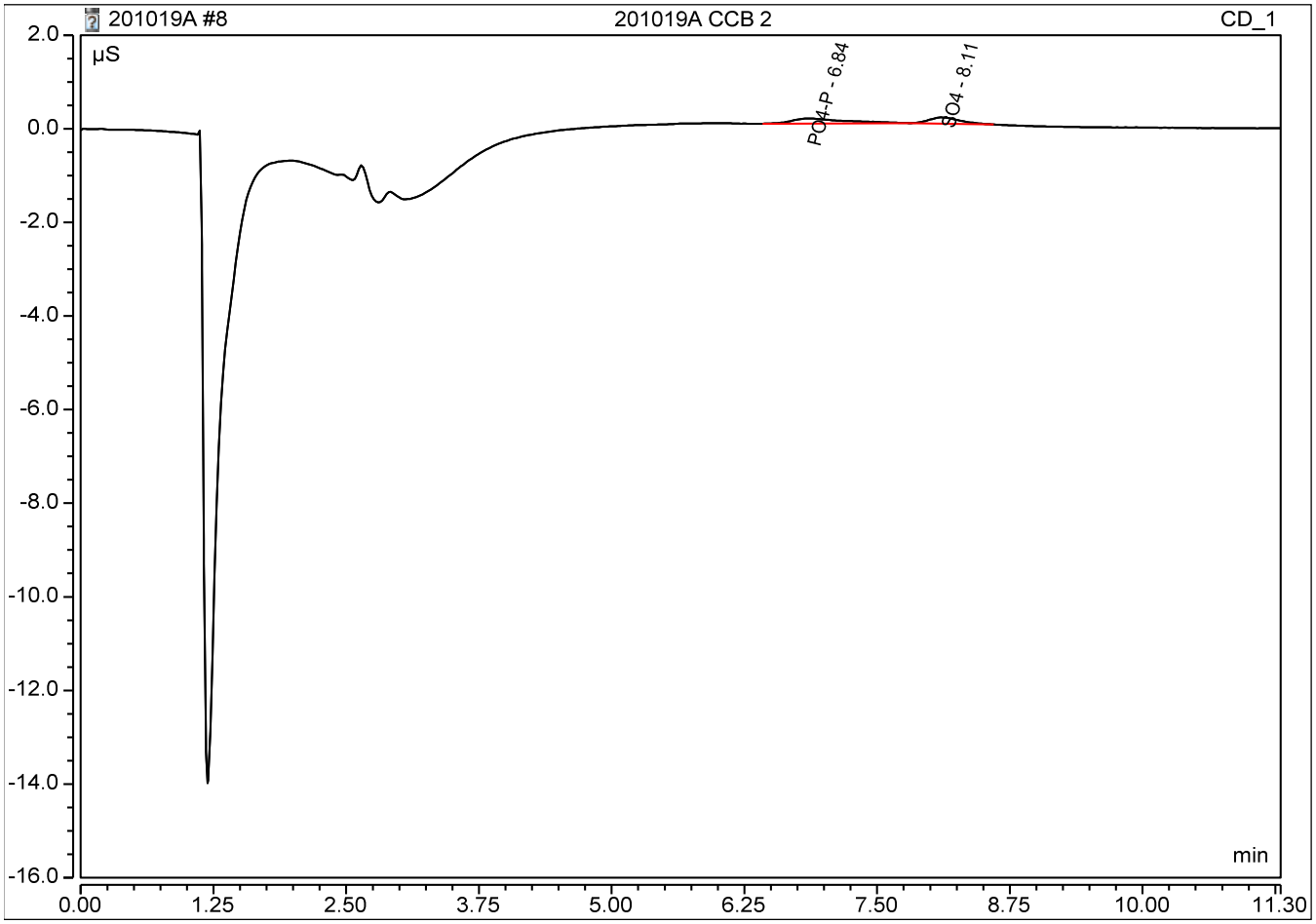


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201019A

Peak Integration Report

Sample Name:	**201019A CCB 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**19-Oct-2020 / 11:49**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	6.84	**PO4-P**	BMB	0.064	0.110	0.68		
2	8.11	**SO4**	BMB	0.046	0.136	0.07		

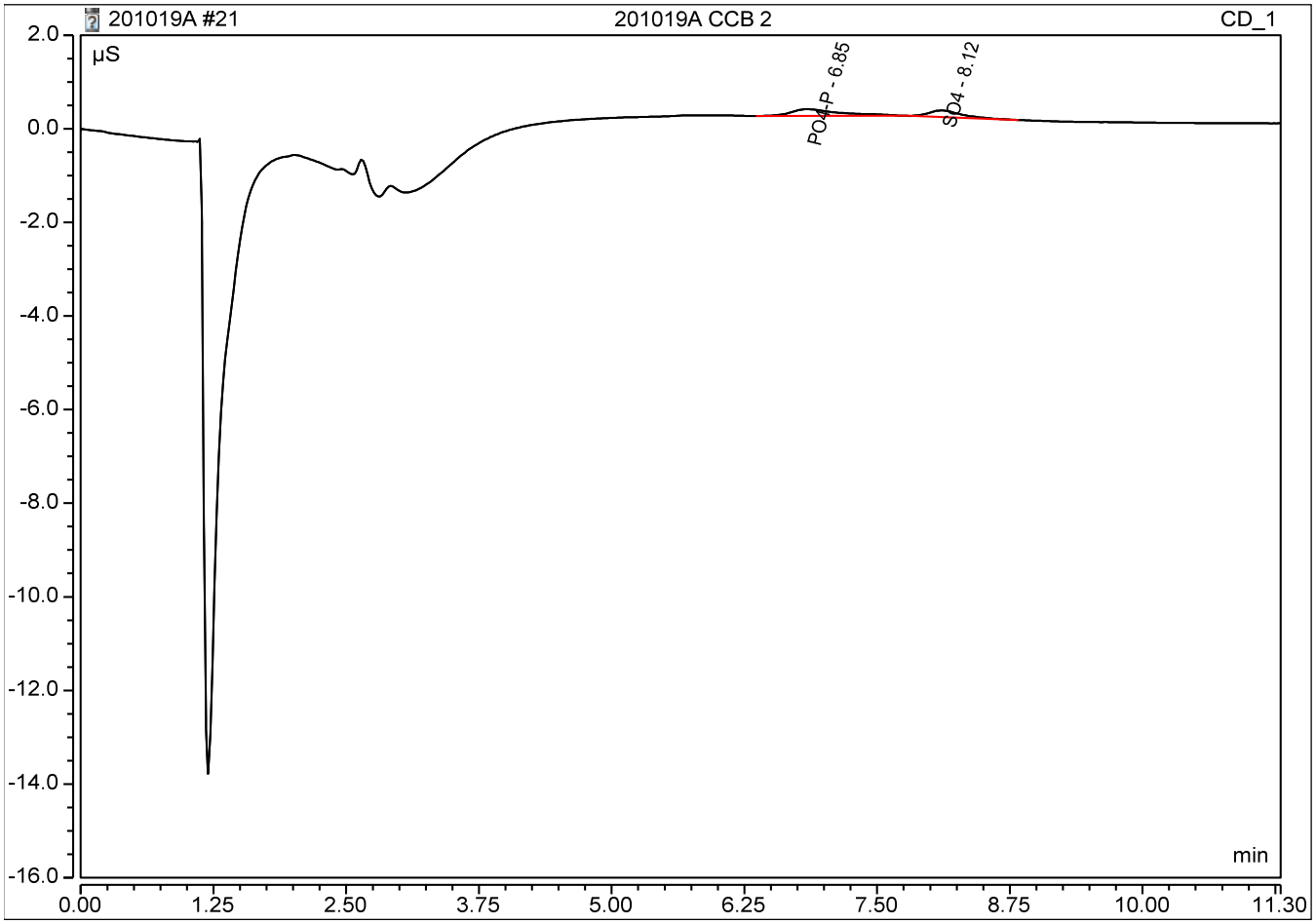


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201019A

Peak Integration Report

Sample Name:	**201019A CCB 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**19-Oct-2020 / 15:00**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	6.85	**PO4-P**	BMB	0.079	0.147	0.70		
2	8.12	**SO4**	BMB	0.053	0.144	0.08		

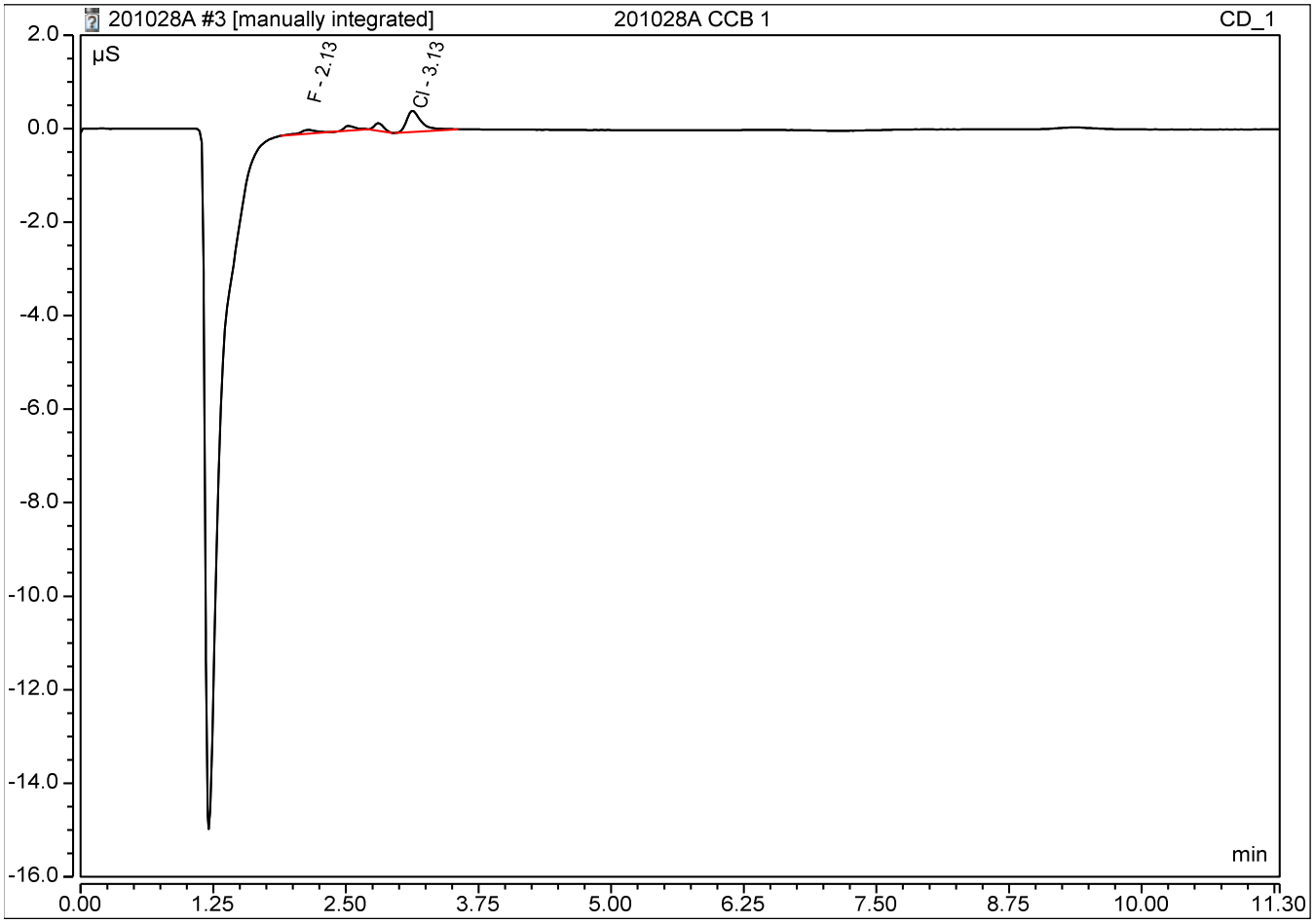


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201028A

Peak Integration Report

Sample Name:	**201028A CCB 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**28-Oct-2020 / 12:55**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.13	**F**	BMB*	0.015	0.086	n.a.		
4	3.13	**Cl**	BMB*	0.077	0.459	0.08		

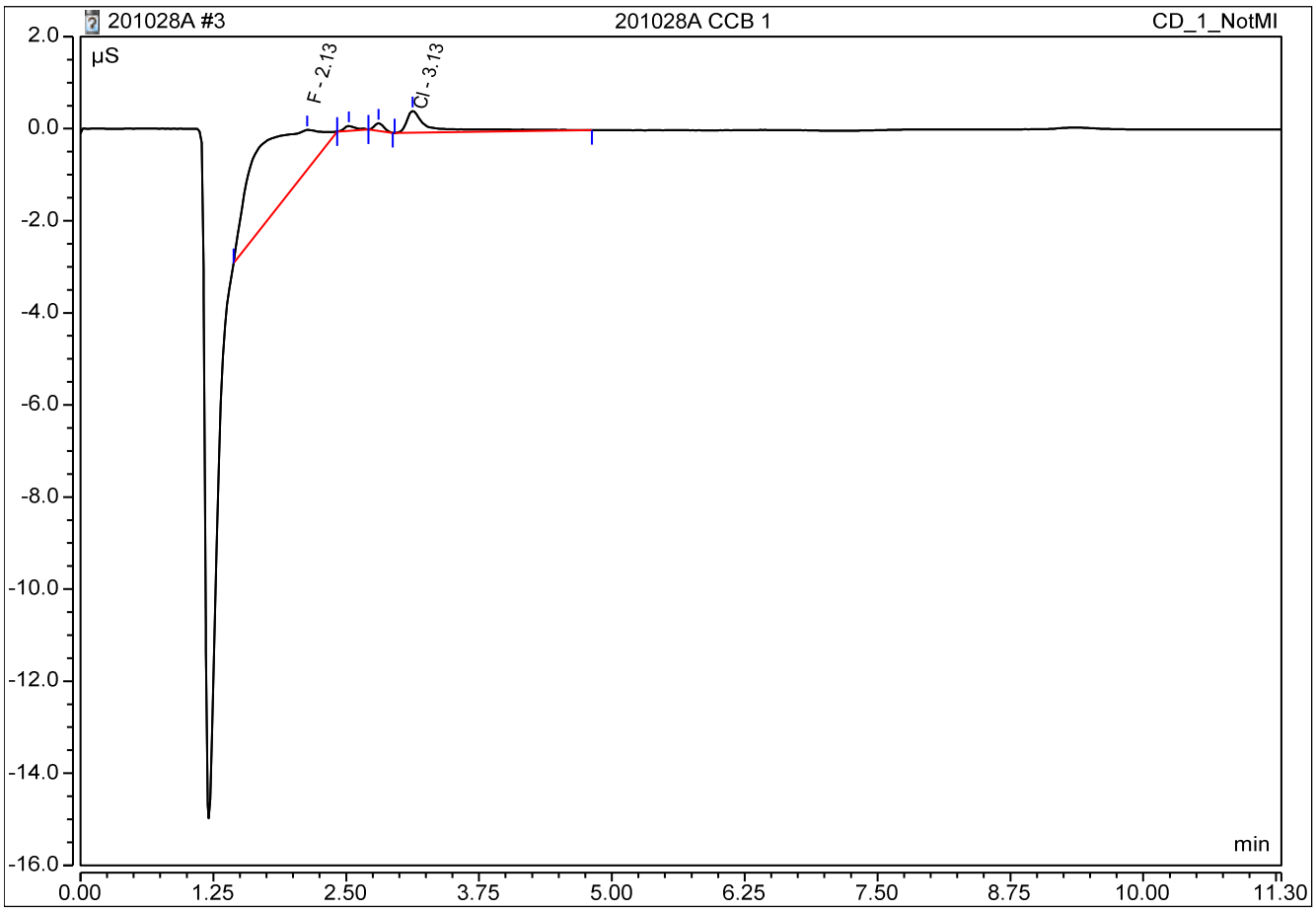


MI 5 F Cl GA 10/28/20

Not Manipulated Peak Integration Report

Sample Name:	**201028A CCB 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**28-Oct-2020 / 12:55**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.13	**F**	BMB*	1.035	0.865	0.9083
4	3.13	**Cl**	BMB*	0.135	0.476	0.1492

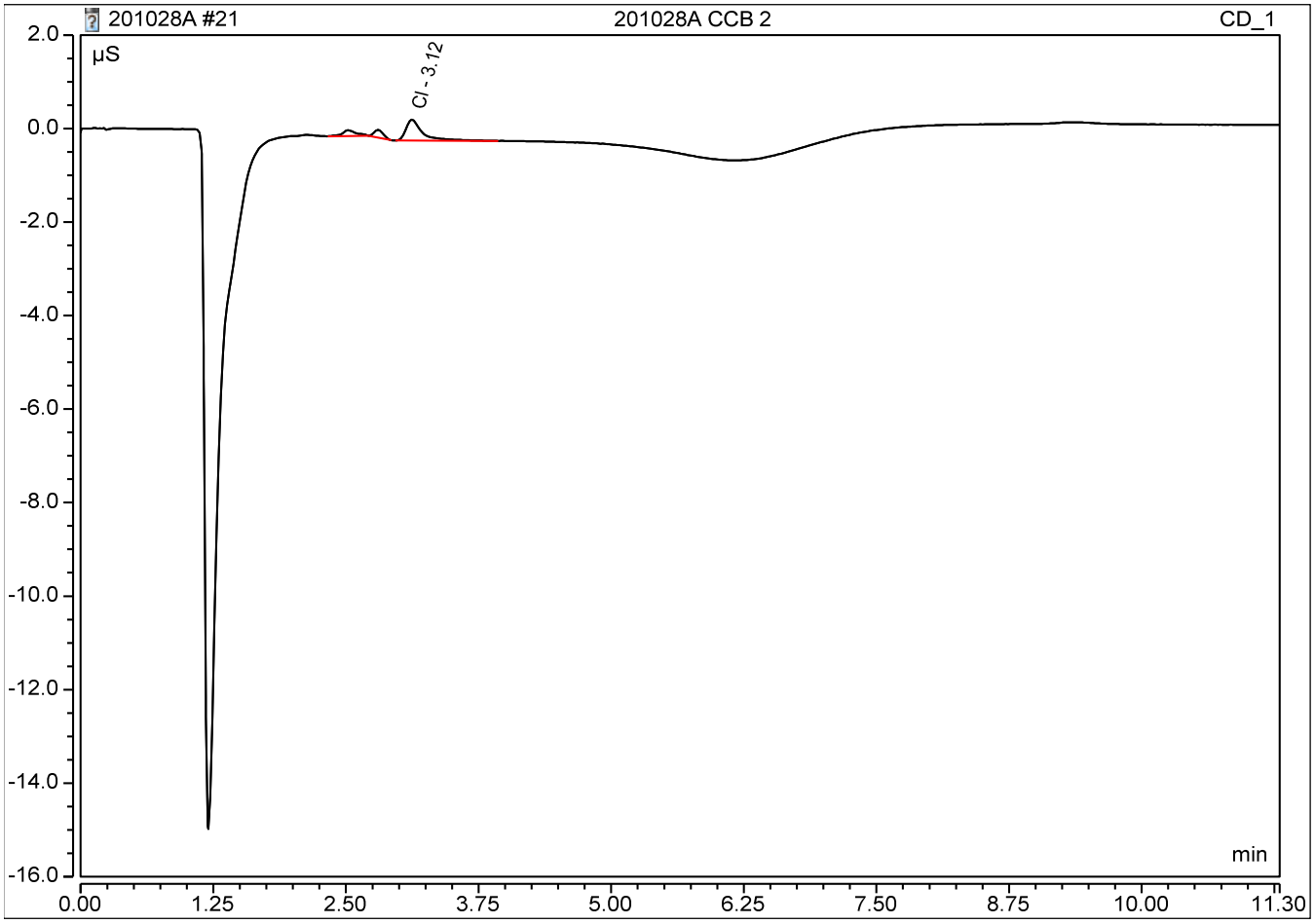


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201028A

Peak Integration Report

Sample Name:	**201028A CCB 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**28-Oct-2020 / 17:18**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
3	3.12	**Cl**	BMB	0.082	0.451	0.09		

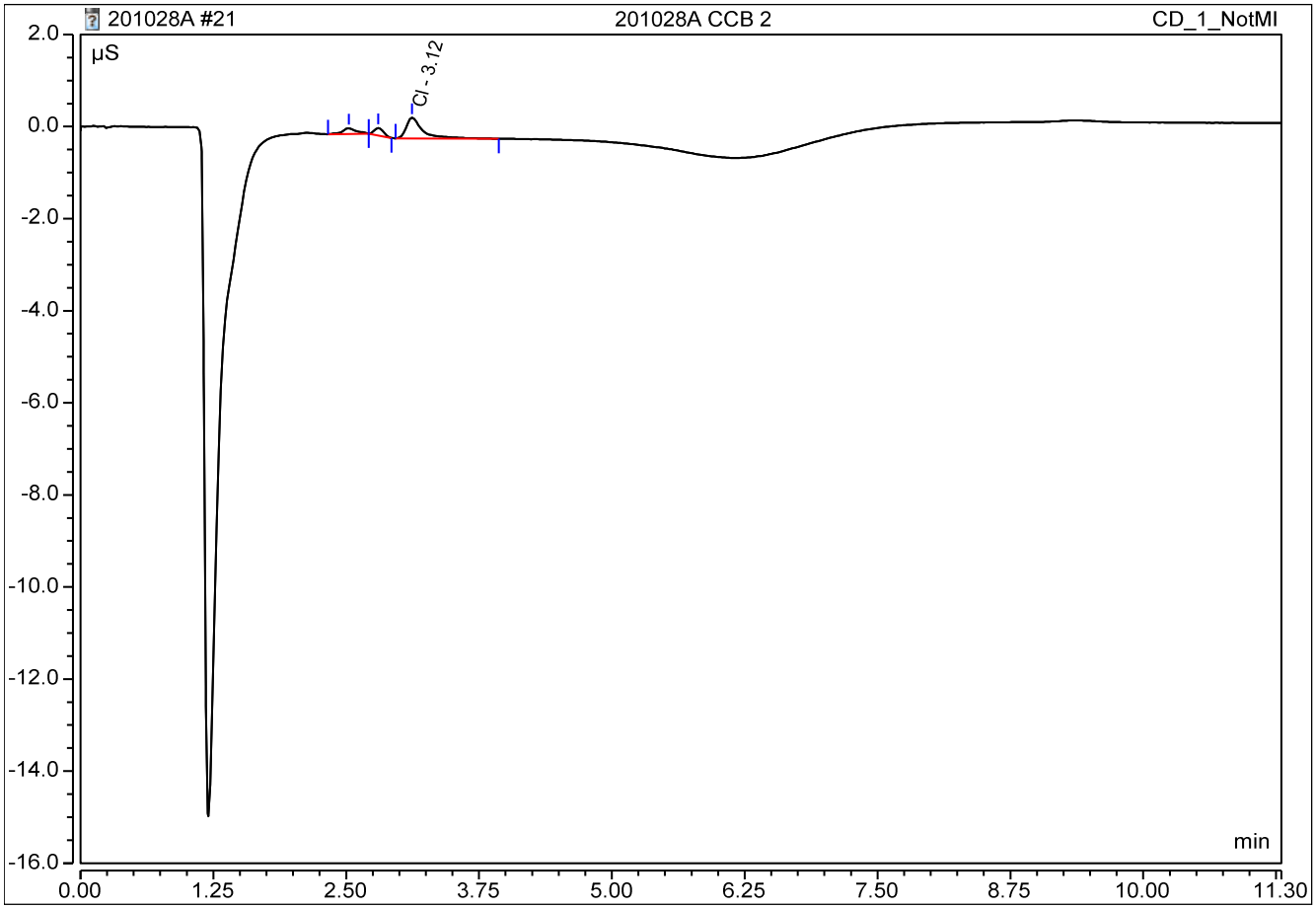


MI 5 F Cl GA 10/28/20

Not Manipulated Peak Integration Report

Sample Name:	**201028A CCB 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**28-Oct-2020 / 17:18**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
3	3.12	**Cl**	BMB	0.082	0.451	0.0913



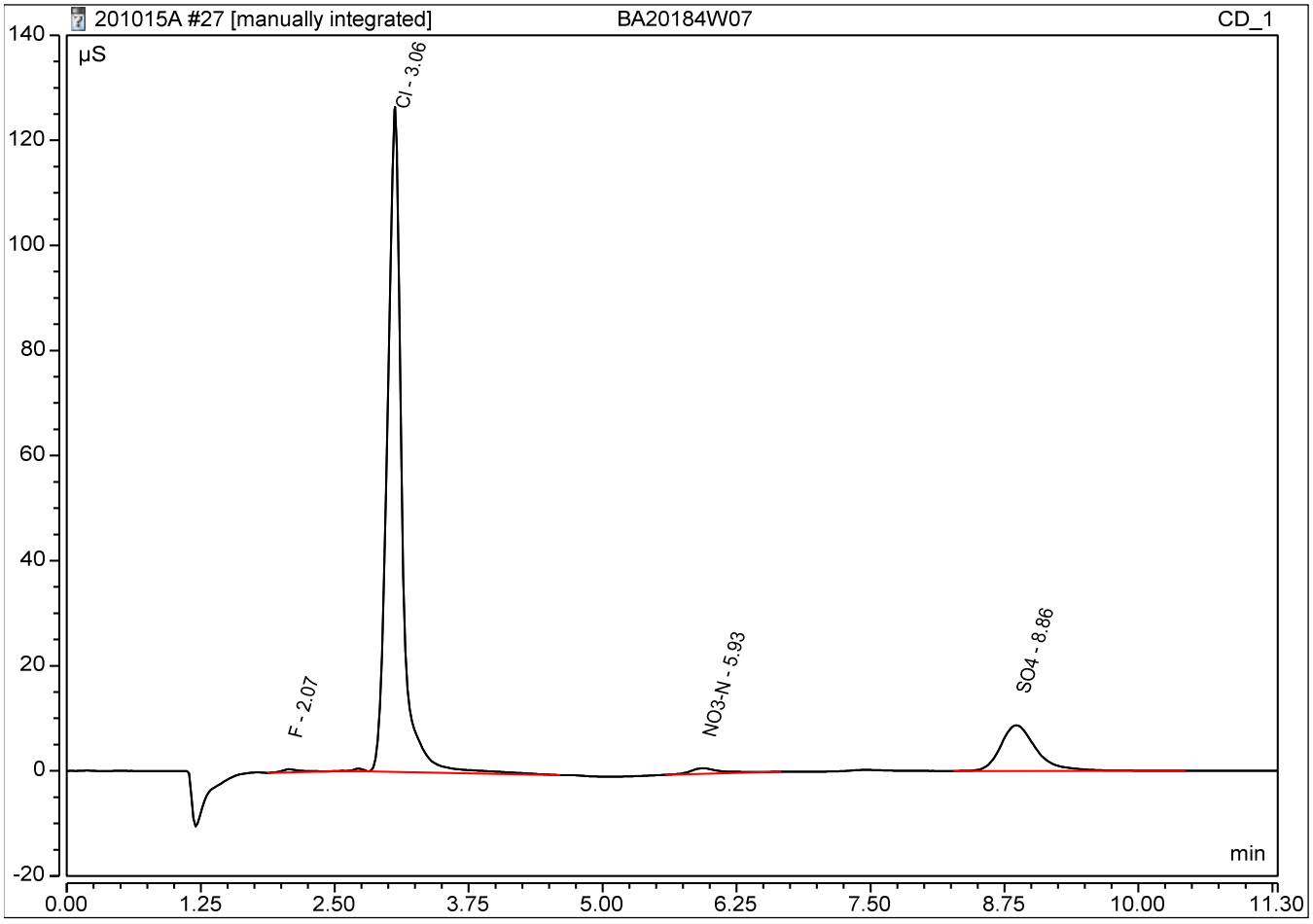
INORGANIC ANALYSIS
Raw Data

Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**BA20184W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 15:36**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.07	**F**	BMB	0.114	0.578	n.a.		
3	3.06	**Cl**	BMB	19.679	126.508	21.78		
4	5.93	**NO3-N**	BMB*	0.349	1.054	0.15		
5	8.86	**SO4**	BMB	3.344	8.684	5.01		

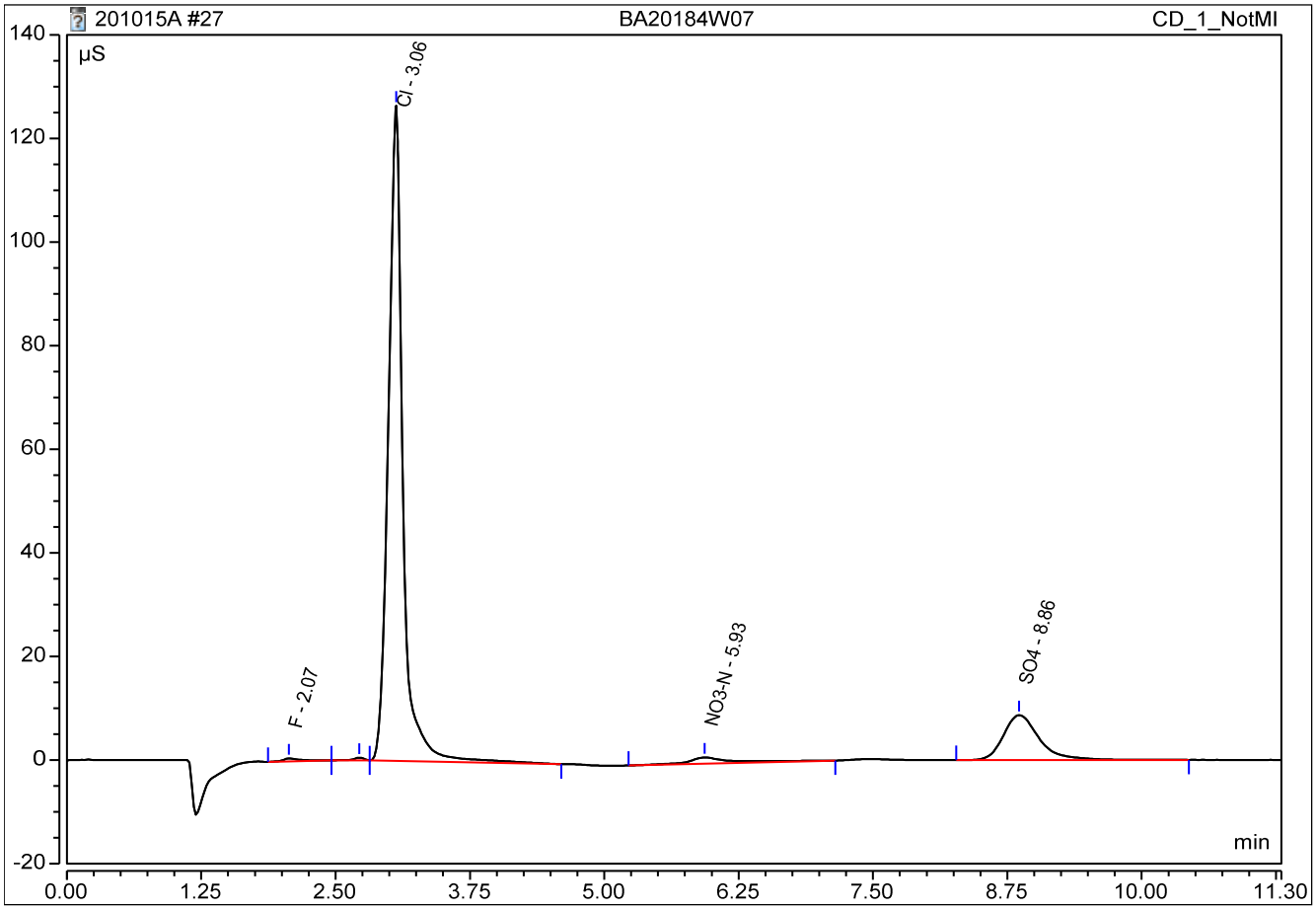


MI5 NO3 GA 10/16/20

Not Manipulated Peak Integration Report

Sample Name:	**BA20184W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 15:36**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.07	**F**	BMB	0.114	0.578	-0.0315
3	3.06	**Cl**	BMB	19.679	126.508	21.7819
4	5.93	**NO3-N**	BMB*	0.576	1.207	0.2497
5	8.86	**SO4**	BMB	3.344	8.684	5.0062

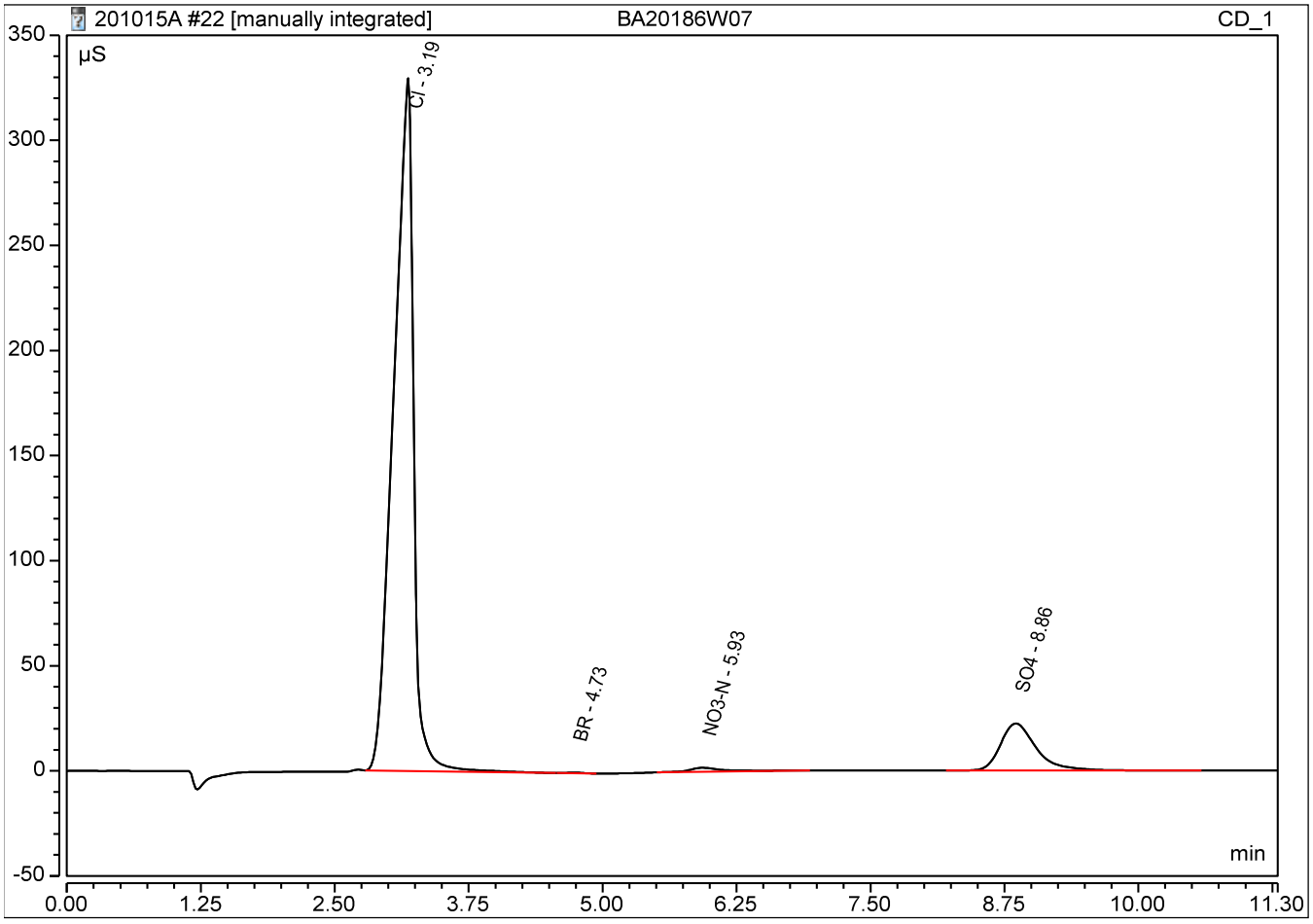


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**BA20186W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 14:22**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	3.19	**Cl**	BMB	70.901	329.511	78.48		
2	4.73	**BR**	BMB	0.054	0.325	0.14		
3	5.93	**NO3-N**	BMB*	0.728	1.929	0.32		
4	8.86	**SO4**	BMB	8.671	22.372	12.98		

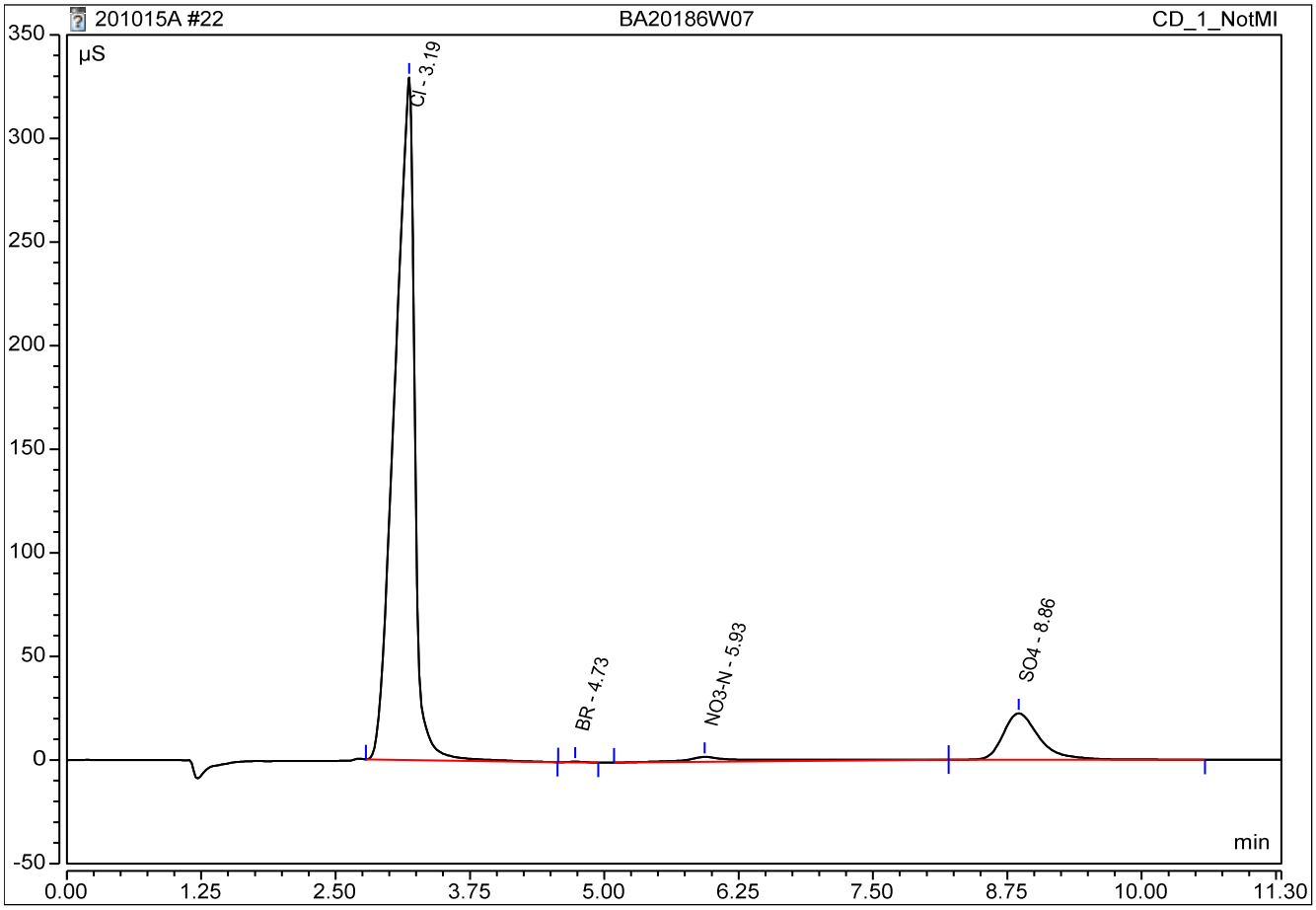


MI5 NO3 GA 10/16/20

Not Manipulated Peak Integration Report

Sample Name:	**BA20186W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 14:22**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	3.19	**Cl**	BMB	70.901	329.511	78.4789
2	4.73	**BR**	BMB	0.054	0.325	0.1415
3	5.93	**NO3-N**	BMB*	1.828	2.355	0.7920
4	8.86	**SO4**	BMB	8.671	22.372	12.9823

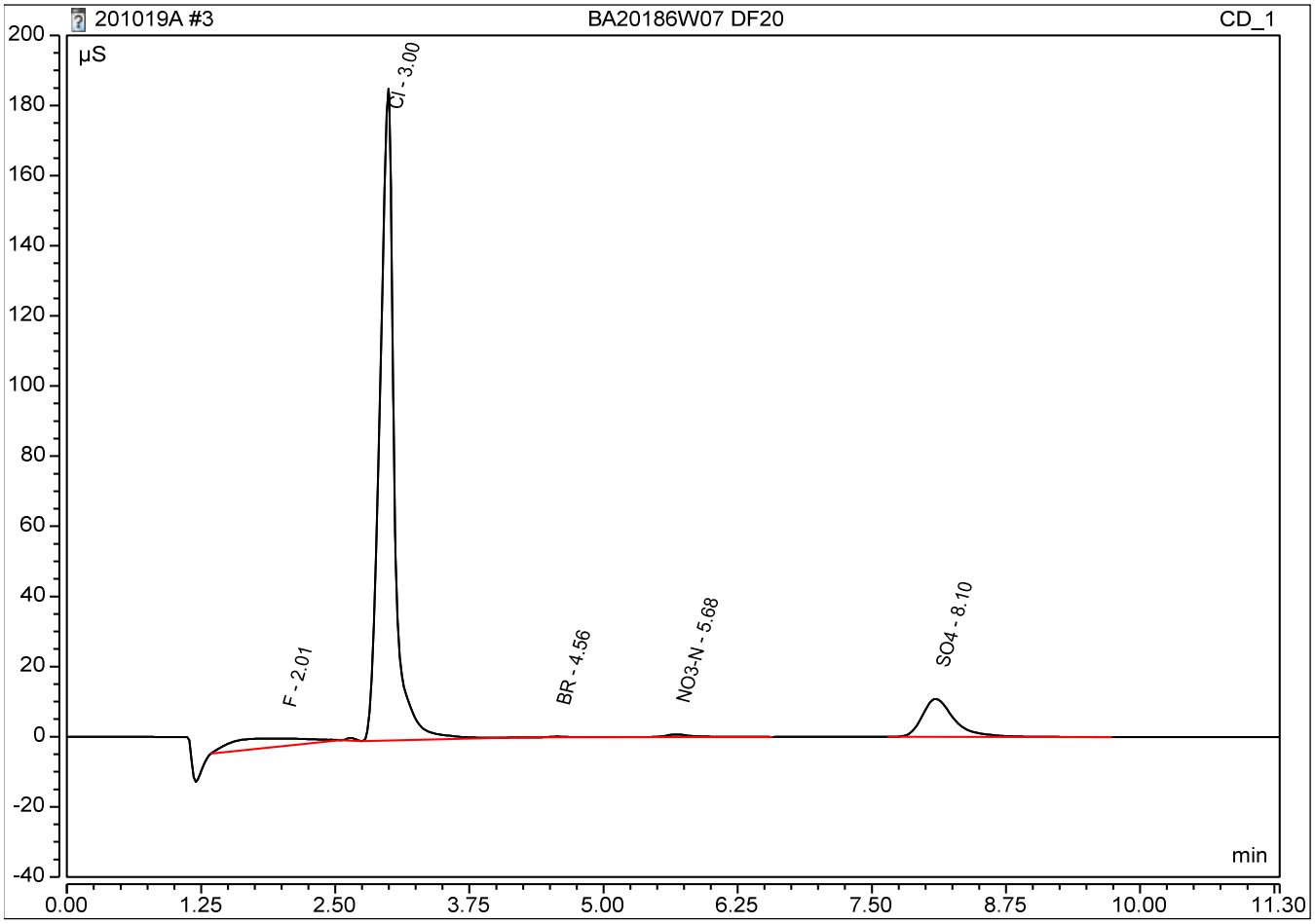


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201019A

Peak Integration Report

Sample Name:	**BA20186W07 DF20**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**20.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**19-Oct-2020 / 10:36**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.01	**F**	BMB	2.136	2.142	40.67		
3	3.00	**Cl**	BMB	28.813	185.861	637.86		
4	4.56	**BR**	BMB	0.060	0.210	3.15		
5	5.68	**NO3-N**	BMB	0.195	0.713	1.70		
6	8.10	**SO4**	BMB	3.768	10.836	112.85		

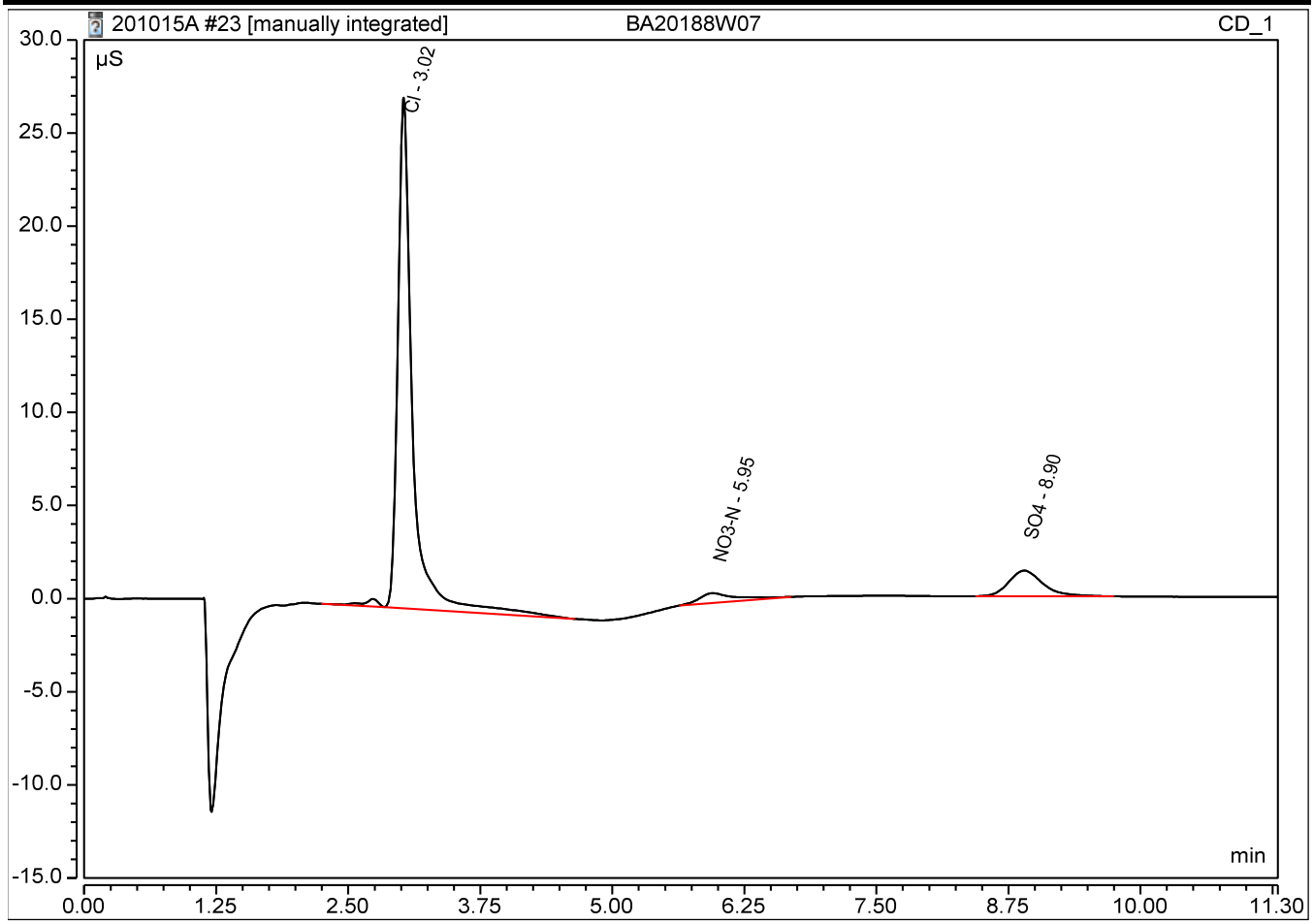


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**BA20188W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 14:37**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	3.02	**Cl**	BMB	4.406	27.415	4.88		
3	5.95	**NO3-N**	BMB*	0.205	0.520	0.09		
4	8.90	**SO4**	BMB	0.519	1.375	0.78		

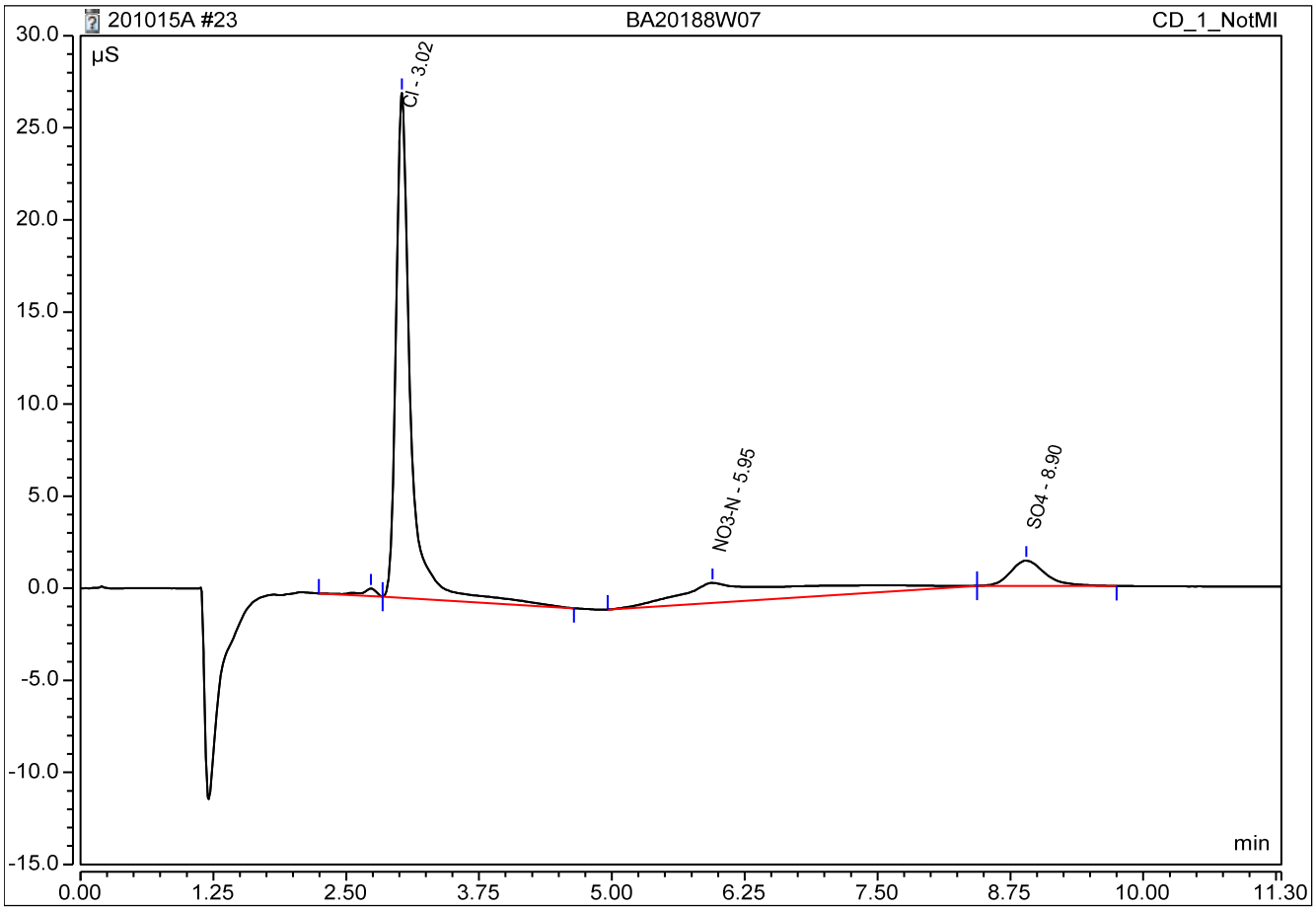


MI5 NO3 GA 10/16/20

Not Manipulated Peak Integration Report

Sample Name:	**BA20188W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 14:37**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
2	3.02	**Cl**	BMB	4.406	27.415	4.8768
3	5.95	**NO3-N**	BMB*	1.537	1.080	0.6658
4	8.90	**SO4**	BMB	0.519	1.375	0.7772

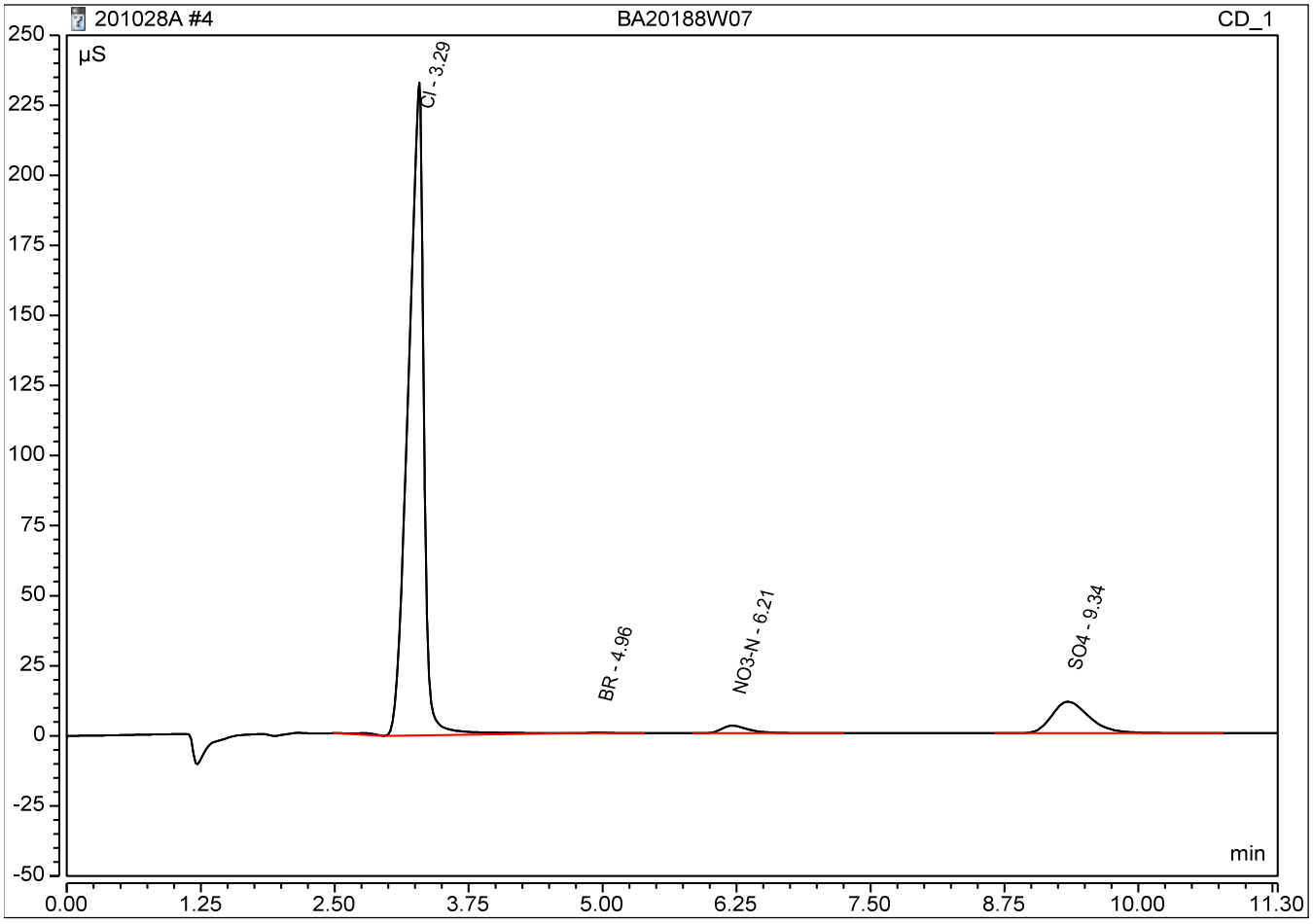


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201028A

Peak Integration Report

Sample Name:	**BA20188W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**28-Oct-2020 / 13:09**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	3.29	**Cl**	BMB	39.007	232.975	43.18		
3	4.96	**BR**	BMB	0.054	0.257	0.14		
4	6.21	**NO3-N**	BMB	0.811	2.716	0.35		
5	9.34	**SO4**	BMB	4.610	11.238	6.90		

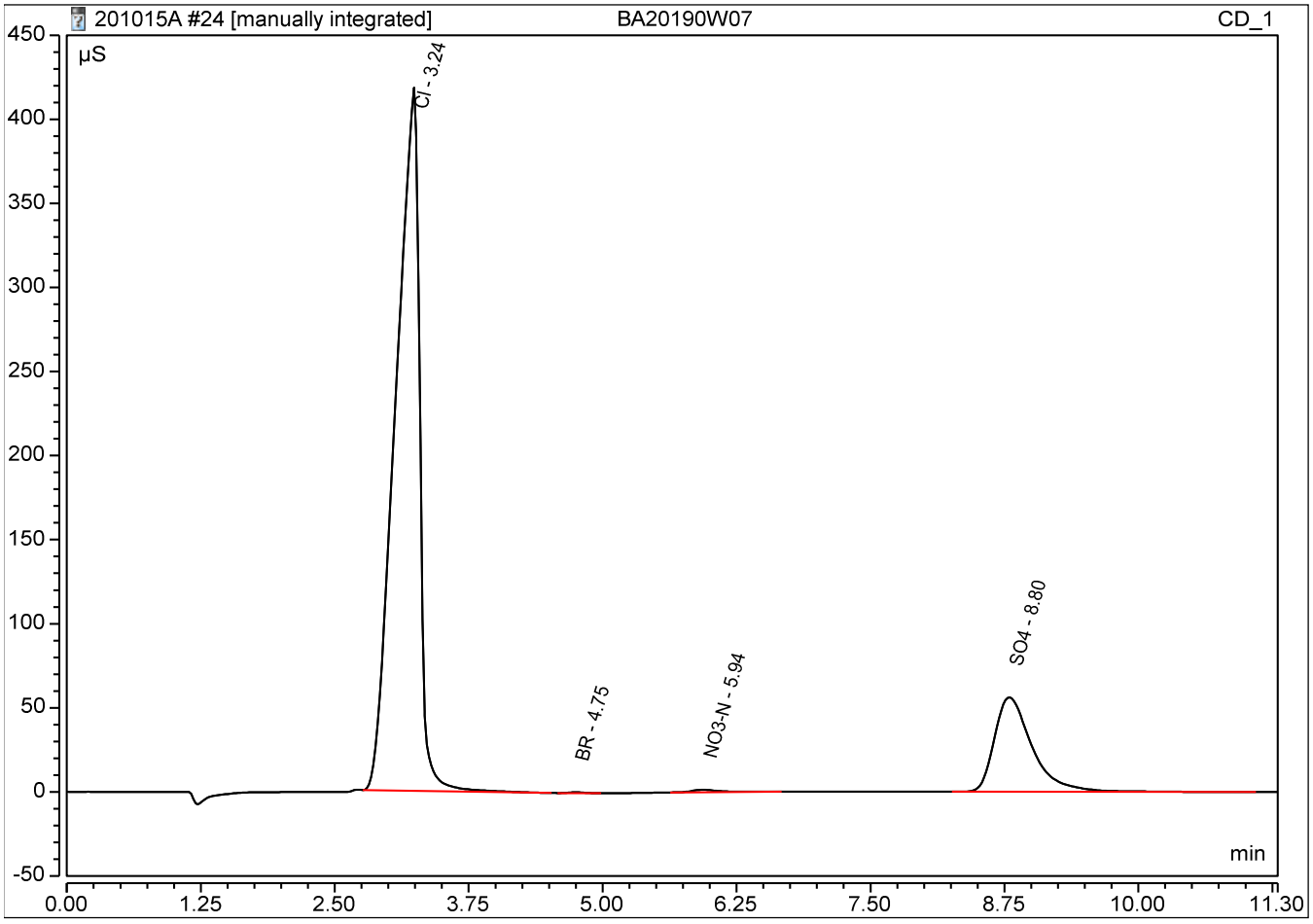


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201015A

Peak Integration Report

Sample Name:	**BA20190W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 14:52**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	3.24	**Cl**	BMB	108.705	418.203	120.32		
2	4.75	**BR**	BMB	0.080	0.478	0.21		
3	5.94	**NO3-N**	BMB*	0.448	1.457	0.19		
4	8.80	**SO4**	BMB	22.967	56.176	34.39		

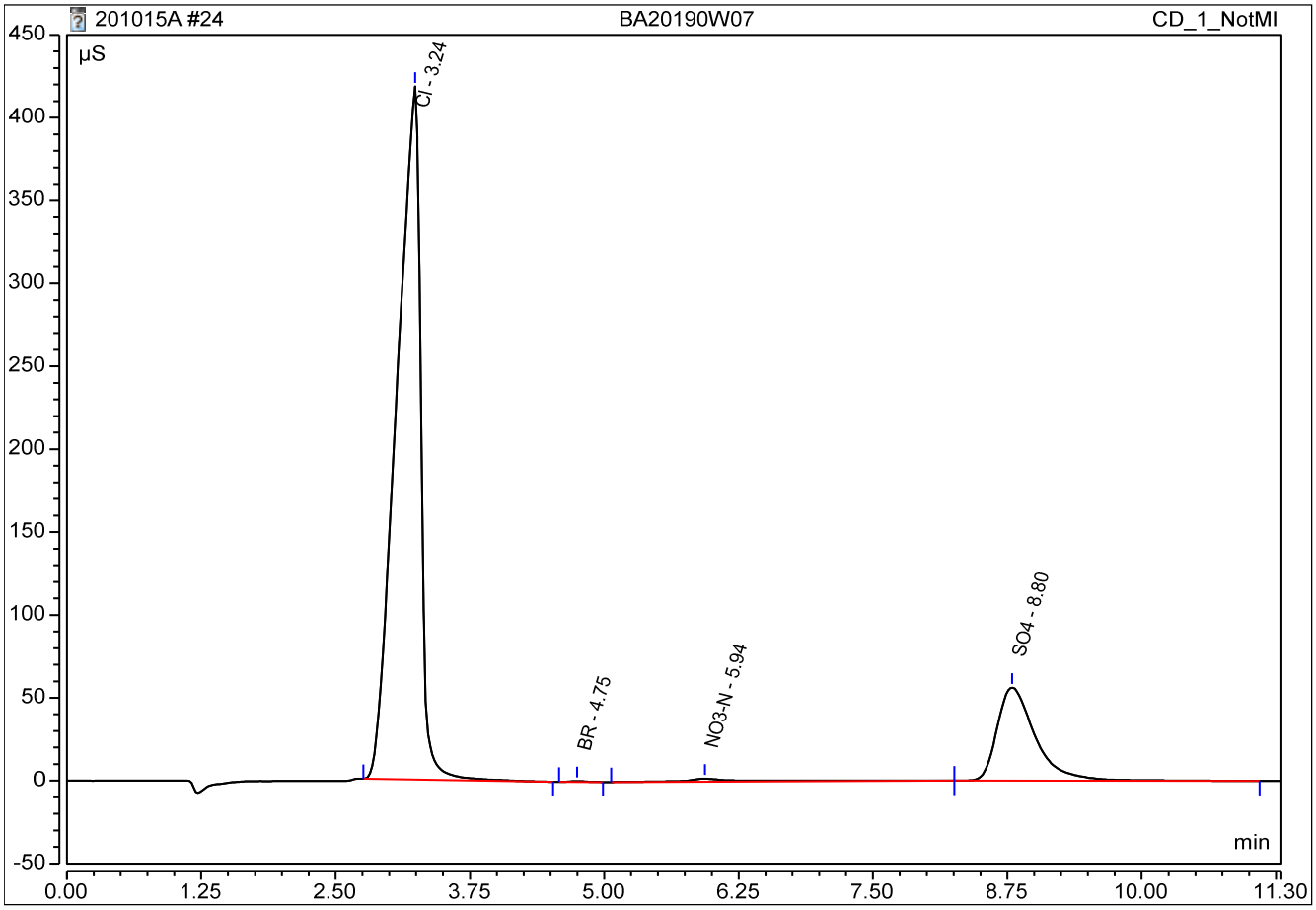


MI5 NO3 GA 10/16/20

Not Manipulated Peak Integration Report

Sample Name:	**BA20190W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**15-Oct-2020 / 14:52**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	3.24	**Cl**	BMB	108.705	418.203	120.3235
2	4.75	**BR**	BMB	0.080	0.478	0.2118
3	5.94	**NO3-N**	BMB*	1.242	1.787	0.5380
4	8.80	**SO4**	BMB	22.967	56.176	34.3869

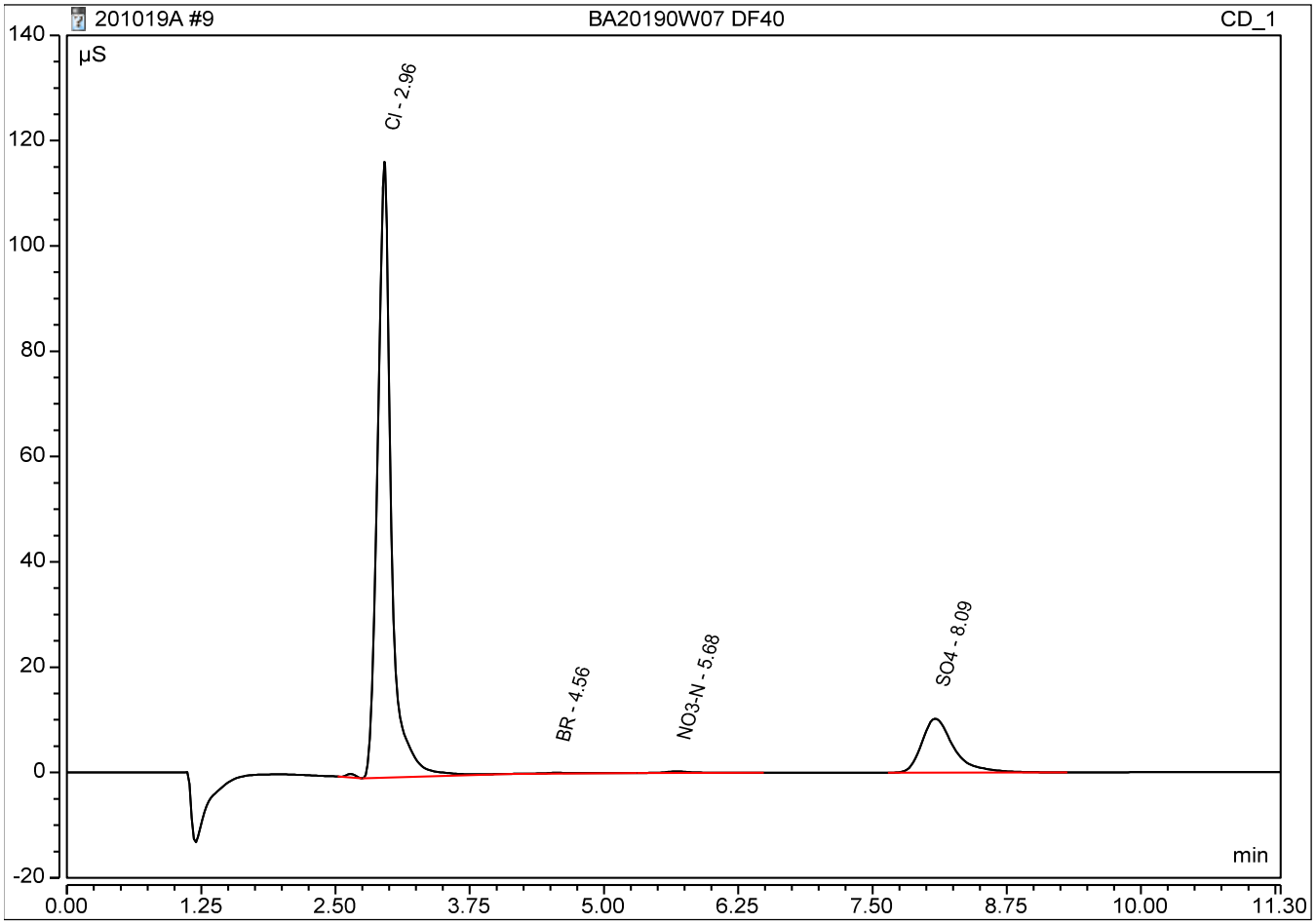


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201019A

Peak Integration Report

Sample Name:	**BA20190W07 DF40**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**40.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**19-Oct-2020 / 12:04**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	2.96	**Cl**	BMB	17.307	116.975	766.27		
3	4.56	**BR**	BMB	0.048	0.138	5.03		
4	5.68	**NO3-N**	BMB	0.081	0.276	1.41		
5	8.09	**SO4**	BMB	3.542	10.245	212.17		



Anion Chromatography Working Standard

Prep Date: 08/25/20

Exp Date: 08/26/20

Prep'd By (Initials): GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H2O	o2si	O2SI-062002-01-01	1000	**687393-38-40744**	**10/30/20**	312.5 µL	25 mL	Millipore Water	12.5
Ion Chromatography Standard Nitrite 1000 µg/mL in H2O	Inorganic Ventures	ICCL1	1000	**P2-CL675597-41353**	**01/15/23**	411 µL	25 mL	Millipore Water	5 as NO2-N
Ion Chromatography Standard Chloride 5000 µg/mL in H2O	Inorganic Ventures	ICNO21	1000	**N2-NOX672889-49601**	**01/30/23**	1250 µL	25 mL	Millipore Water	50
Ortho-Phosphate as P Standard	Agilent	ICC-005A	1000	**G34-CP-3323-49590**	**05/31/25**	625 µL	25 mL	Millipore Water	25
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H2O	Inorganic Ventures	P2-NOX675324	1000	**P2-NOX675324-49391**	**02/14/23**	250 µL	25 mL	Millipore Water	10
Bromide Standard	CPI international	4400-IC8M	1000	**1011817-12-49602**	**06/04/21**	625 µL	25 mL	Millipore Water	25
Sulfate Standard	Inorganic Ventures	ICS041	1000	**P2-SOX677315**	**04/03/23**	1250 µL	25 mL	Millipore Water	50

Anion Chromatography Calibration Curve

Prep Date: 09/14/20

Exp Date: 09/15/20

Prep'd By (Initials): GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. Range (ug/mL)	Reference To APPL Prep Date	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc. Range (µg/mL)
Anion Chromatography Working Standard	Varies	ICal1A	5.0-50.0	Prepared 08/25/20	09/15/20	2 µL	1000 µL	Millipore Water	0.02-0.20
Anion Chromatography Working Standard	Varies	ICal1	5.0-50.0	Prepared 08/25/20	09/15/20	4 µL	1000 µL	Millipore Water	0.04-0.40
Anion Chromatography Working Standard	Varies	ICal2	5.0-50.0	Prepared 08/25/20	09/15/20	20 µL	1000 µL	Millipore Water	0.1-1.0
Anion Chromatography Working Standard	Varies	ICal3	5.0-50.0	Prepared 08/25/20	09/15/20	50 µL	1000 µL	Millipore Water	0.25-2.5
Anion Chromatography Working Standard	Varies	ICal4	5.0-50.0	Prepared 08/25/20	09/15/20	100 µL	1000 µL	Millipore Water	0.5-5.0
Anion Chromatography Working Standard	Varies	ICal5	5.0-50.0	Prepared 08/25/20	09/15/20	200 µL	1000 µL	Millipore Water	1.0-10.0
Anion Chromatography Working Standard	Varies	ICal6	5.0-50.0	Prepared 08/25/20	09/15/20	500 µL	1000 µL	Millipore Water	2.5-25.0
Anion Chromatography Working Standard	Varies	ICal7	5.0-50.0	Prepared 08/25/20	09/15/20	700 µL	1000 µL	Millipore Water	3.5-35.0
Anion Chromatography Working Standard	Varies	ICal8	5.0-50.0	Prepared 08/25/20	09/15/20	1000 µL	1000 µL	Millipore Water	5.0-50.0

Anion Chromatography ICV Absolute COA 49866

Prep Date: See injection Log

Exp Date: 24 hours after prep

Prep'd By (Initials): Absolute

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Flouride	Absolute	50021	2.5	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	2.5
Nitrite	Absolute	50021	1.522334	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	1.522334
Chloride	Absolute	50021	1.522334	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	1.522334
O-Phosphate as P	Absolute	50021	6.522	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	6.522
Nitrate as N	Absolute	50021	1.129525	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	1.129525
Ion Chromatography Standard Bromide, 1000 µg/mL in H2O	Absolute	50021	5	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	5
Sulfate	Absolute	50021	20	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	20

Anion Chromatography CCV / LCS

Prep Date: See injection Log

Exp Date: 24 hours after prep

Prep'd By (Initials): GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H2O	o2si	O2SI-062002-01-01	1000	**687393-38-40744**	**10/30/20**	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Nitrite 1000 µg/mL in H2O	Inorganic Ventures	ICCL1	1000	**P2-CL675597-41353**	**01/15/23**	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Chloride 5000 µg/mL in H2O	Inorganic Ventures	ICNO21	1000	**N2-NOX672889-49601**	**01/30/23**	125 µL	25 mL	Millipore Water	25
Ortho-Phosphate as P Standard	Agilent	ICC-005A	1000	**G34-CP-3323-49590**	**05/31/25**	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H2O	Inorganic Ventures	P2-NOX675324	1000	**P2-NOX675324-49391**	**02/14/23**	125 µL	25 mL	Millipore Water	5
Bromide Standard	CPI international	4400-IC8M	1000	**1011817-12-49602**	**06/04/21**	250 µL	25 mL	Millipore Water	10
Sulfate Standard	Inorganic Ventures	ICS041	1000	**P2-SOX677315**	**04/03/23**	625 µL	25 mL	Millipore Water	25

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time		Type	Comment
1	BC1	Cal 1 2020.09.14	14/Sep/2020	11:17	Calibration Standard	
2	BC2	Cal 2 2020.09.14	14/Sep/2020	11:31	Calibration Standard	
3	BC3	Cal 3 2020.09.14	14/Sep/2020	11:46	Calibration Standard	
4	BC6	Cal 6 2020.09.14	14/Sep/2020	12:30	Calibration Standard	
5	BC7	Cal 7 2020.09.14	14/Sep/2020	12:44	Calibration Standard	
6	BC8	Cal 8 2020.09.14	14/Sep/2020	12:59	Calibration Standard	
7	BC4	Cal 4 2020.09.14	14/Sep/2020	14:59	Calibration Standard	
8	BC5	Cal 5 2020.09.14	14/Sep/2020	15:14	Calibration Standard	
9	R1	ICB / CCB	14/Sep/2020	15:29	Unknown	
10	BD1	ICV Absolute 111419	14/Sep/2020	15:43	Check Standard	

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time		Type	Comment
1	R2	201015A CCV/LCS 1	15/Oct/2020	08:12	Check Standard	
2	R1	201015A CCB 1	15/Oct/2020	08:27	Unknown	
3	BC8	BA20258W01 DF5	15/Oct/2020	08:41	Unknown	
4	BD1	BA20269W01	15/Oct/2020	08:56	Unknown	EQB ARF 93733
5	BD2	BA20270W01	15/Oct/2020	09:39	Unknown	MW-3 ARF 93733
6	BD3	BA20271W01	15/Oct/2020	09:54	Unknown	MW-2 ARF 93733
7	BD4	BA20272W01	15/Oct/2020	10:08	Unknown	MW-1 ARF 93733
8	BD5	BA20273W01	15/Oct/2020	10:23	Unknown	MW-5 ARF 93733
9	BD6	BA20274W01	15/Oct/2020	10:38	Unknown	MW-7 ARF 93733
10	BD7	BA20275W01	15/Oct/2020	10:52	Unknown	MW-6 ARF 93733
11	BD8	BA20276W01	15/Oct/2020	11:07	Unknown	Dup-201014 ARF 93733
12	BE1	BA20277W01	15/Oct/2020	11:22	Unknown	MW-4 ARF 93733
13	R2	201015A CCV/LCS 2	15/Oct/2020	11:36	Check Standard	
14	R1	201015A CCB 2	15/Oct/2020	11:51	Unknown	
15	BE2	BA20278W01	15/Oct/2020	12:05	Unknown	ARF 93777
16	BE3	BA20274W01 DF10	15/Oct/2020	12:20	Unknown	MW-7 ARF 93733 DF10
17	BE4	BA20275W01 DF5	15/Oct/2020	12:35	Unknown	MW-6 ARF 93733 DF5
18	BE5	BA20276W01 DF5	15/Oct/2020	12:49	Unknown	Dup-201014 ARF 93733 DF5
19	BE6	BA20405W01	15/Oct/2020	13:29	Unknown	ARF 93738
20	RA1	BA20207W01	15/Oct/2020	13:53	Unknown	WR-6 ARF 93759
21	RA2	BA20208W01	15/Oct/2020	14:08	Unknown	AR-3 ARF 93759
22	RA3	BA20186W07	15/Oct/2020	14:22	Unknown	ERH-1173 ARF 93740
23	RA4	BA20188W07	15/Oct/2020	14:37	Unknown	ERH-1179 ARF 93740
24	RA5	BA20190W07	15/Oct/2020	14:52	Unknown	ERH-1181 ARF 93740
25	R2	201015A CCV/LCS 1	15/Oct/2020	15:06	Check Standard	
26	R1	201015A CCB 1	15/Oct/2020	15:21	Unknown	
27	RA6	BA20184W07	15/Oct/2020	15:36	Unknown	ERH-1169 ARF 93740
28	R2	201015A CCV/LCS 1	15/Oct/2020	15:50	Check Standard	
29	R1	201015A CCB 1	15/Oct/2020	16:05	Unknown	
30	R2	STOP	15/Oct/2020	16:16	Unknown	

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time		Type	Comment
1	BD3	SS Test	28/Oct/2020	11:11	Check Standard	
2	R2	201028A CCV/LCS 1	28/Oct/2020	12:33	Check Standard	
3	R1	201028A CCB 1	28/Oct/2020	12:55	Unknown	
4	BB1	BA20188W07	28/Oct/2020	13:09	Unknown	
5	BB2	BA20130W01 PT	28/Oct/2020	13:24	Unknown	
6	BB3	BA20130W01 DF10 PT	28/Oct/2020	13:39	Unknown	
7	BB4	BA20131W01 PT	28/Oct/2020	13:53	Unknown	
8	BB5	BA20133W01 DF5 PT	28/Oct/2020	14:08	Unknown	
9	BB6	BA20080W34 MS	28/Oct/2020	14:22	Unknown	
10	BB7	BA20080W34 MSD	28/Oct/2020	14:37	Unknown	
11	BD4	93904 EB	28/Oct/2020	14:52	Unknown	
12	BD5	93904 310	28/Oct/2020	15:06	Unknown	
13	BD6	93904 330	28/Oct/2020	15:21	Unknown	
14	BD7	93904 385	28/Oct/2020	15:36	Unknown	
15	BD8	93904 465	28/Oct/2020	15:50	Unknown	
16	BE1	93904 485	28/Oct/2020	16:05	Unknown	
17	GC1	BA20829W01	28/Oct/2020	16:20	Unknown	
18	BE2	93904 520	28/Oct/2020	16:34	Unknown	
19	BE3	93904 565	28/Oct/2020	16:49	Unknown	
20	R2	201028A CCV/LCS 2	28/Oct/2020	17:04	Check Standard	
21	R1	201028A CCB 2	28/Oct/2020	17:18	Unknown	
22	BE4	93904 WHZ	28/Oct/2020	17:33	Unknown	
23	BE6	93904 310 DF20	28/Oct/2020	17:48	Unknown	
24	BE7	93904 330 DF20	28/Oct/2020	18:02	Unknown	
25	GA6	93903 Quality Well	28/Oct/2020	18:17	Unknown	
26	GA7	93914 Case 433 Drill436	28/Oct/2020	18:32	Unknown	
27	R2	201028A CCV/LCS 3	28/Oct/2020	18:46	Check Standard	
28	R1	201028A CCB 3	28/Oct/2020	19:01	Unknown	
29	GA8	93897 WH1	28/Oct/2020	19:16	Unknown	
30	GB1	93897 EB	28/Oct/2020	19:30	Unknown	
31	GB2	93897 245	28/Oct/2020	19:45	Unknown	
32	GB3	93915 MW4	28/Oct/2020	19:59	Unknown	
33	GB4	BA20693W08 DF20	28/Oct/2020	20:14	Unknown	
34	GB5	BA20710W12	28/Oct/2020	20:29	Unknown	
35	GB6	BA20711W06	28/Oct/2020	20:43	Unknown	
36	GB7	BA20712W06	28/Oct/2020	20:58	Unknown	
37	GB8	BA20713W06	28/Oct/2020	21:13	Unknown	
38	R2	201028A CCV/LCS 4	28/Oct/2020	21:27	Check Standard	
39	R1	201028A CCB 4	28/Oct/2020	21:42	Unknown	
40	GC3	stop	28/Oct/2020	21:53	Unknown	

INORGANIC ANALYSIS
Calibration and Raw Data

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM
ARF No: 93740 SDG: 93740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 10/16/20

Analyte	Calibration Verification									M
	True CCV1	Found 16:14	%R(1)	True ICV	Found 16:18	%R(1)	True CCV1	Found 16:41	%R(1)	
TOXN	3	2.7956	93.2	3	2.8868	96.2	3	2.8245	94.2	

(1) Control Limits: 90-110

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM
ARF No: 93740 SDG: 93740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 10/16/20

Analyte	Calibration Verification									M
	True CCV1	Found 17:04	%R(1)	True CCV1	Found 17:09	%R(1)	True CCV1	Found 17:31	%R(1)	
TOXN	3	2.9639	98.8	3	3.0374	101	3	3.0746	102	

(1) Control Limits: 90-110

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM
ARF No: 93740 SDG: 93740
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 10/16/20

Analyte	Calibration Verification									M
	True CCV1	Found 17:36	%R(1)	True	Found	%R(1)	True	Found	%R(1)	
TOXN	3	2.9467	98.2							

(1) Control Limits: 90-110

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No.: 93740 SDG: 93740

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	CCB 10/16/20 16:16	C	ICB 10/16/20 16:21	C	CCB 10/16/20 16:43	C	CCB 10/16/20 17:05	C	CCB 10/16/20 17:10	C	
TOXN	.100	U	.100	U	.100	U	.100	U	.1000	U	

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No.: 93740 SDG: 93740

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	CCB 10/16/20 17:32	C	CCB 10/16/20 17:37	C		C		C		C	
TOXN	.100	U	.100	U							

AQ2 Tray Report

Serial Number:	190170
Software Version:	2.1.0
Report Requested By:	Kyle S
Date & Time:	2020-10-21 16:36:03
Tray Number:	3
Tray Name:	201015A NO2 NO3 TOXN

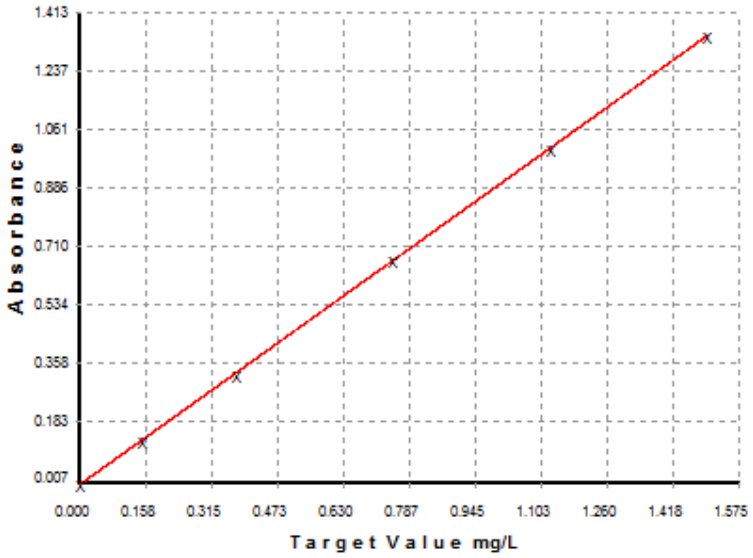
Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0070	0.0032	0.0000	
S90	0.1361	0.1476	0.1500	-1.57
S91	0.3368	0.3722	0.3750	-0.75
S92	0.6773	0.7532	0.7500	0.42
S93	1.0077	1.1229	1.1250	-0.19
S94	1.3456	1.5009	1.5000	0.06
S0	0.0208	0.0186	0.0000	

Polynomial Order:	1
Correlation Coefficient:	1.0000
Carryover(%):	1.0
Calibration equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured absorbance
a =:	-4.642827E-003
b =:	1.118917E+000
Date & Time:	2020-10-16 15:19:05

Calibration Graph



Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
	S1	Standard 1	0.0070			0.006976			KS	2020-10-16 15:11:44
	S90	Standard 90	0.1361			0.136105			KS	2020-10-16 15:12:57
	S91	Standard 91	0.3368			0.336797			KS	2020-10-16 15:14:10
	S92	Standard 92	0.6773			0.677272			KS	2020-10-16 15:15:24
	S93	Standard 93	1.0077			1.007682			KS	2020-10-16 15:16:37
	S94	Standard 94	1.3456			1.345578			KS	2020-10-16 15:17:51
	S0	Standard 0	0.0208			0.020768			KS	2020-10-16 15:19:05
	CCV	CCV .75	0.7490	mg/L		0.673564			KS	2020-10-16 15:20:18
	CCB	CCB	0.0100	mg/L		0.013049			KS	2020-10-16 15:21:33
3	U1	ICV NO2	0.7450	mg/L		0.670006			KS	2020-10-16 15:22:47
4	U2	ICV NO3 TOXN	0.0103	mg/L		0.013322			KS	2020-10-16 15:24:01
5	U3	ICB NO2 NO3 TOXN	0.0034	mg/L		0.007181			KS	2020-10-16 15:25:14
6	U4	201016A Blk NO2 NO3 TOXN	0.0040	mg/L		0.007720			KS	2020-10-16 15:26:29
7	U5	201016A LCS NO2	0.7434	mg/L		0.668531			KS	2020-10-16 15:27:42
8	U6	201016A LCS NO3 TOXN	0.0107	mg/L		0.013700			KS	2020-10-16 15:28:56
9	U7	201016A LCSD NO3 TOXN	0.0037	mg/L		0.007451			KS	2020-10-16 15:30:09
10	U8	1 PPM NO2	1.0179	mg/L		0.913842			KS	2020-10-16 15:31:22
11	U9	1 PPM NO3	0.0131	mg/L		0.015829			KS	2020-10-16 15:32:35
24	U22	BA20476W12	0.0034	mg/L		0.007168			KS	2020-10-16 15:33:50
	CCV	CCV .75	0.7666	mg/L		0.689268			KS	2020-10-16 15:34:29
	CCB	CCB	0.0100	mg/L		0.013127			KS	2020-10-16 15:36:39
25	U23	BA20477W12	0.0045	mg/L		0.008171			KS	2020-10-16 15:38:53
26	U24	BA20478W36	0.0035	mg/L		0.007296			KS	2020-10-16 15:41:10
27	U25	BA20478W36 MS	0.7216	mg/L		0.649022			KS	2020-10-16 15:43:28

28	U26	BA20478W36 MSD	0.7417	mg/L	0.667004		KS	2020-10-16 15:45:45
	CCV	CCV .75	0.7389	mg/L	0.664489		KS	2020-10-16 15:48:03
	CCB	CCB	0.0109	mg/L	0.013895		KS	2020-10-16 15:50:16

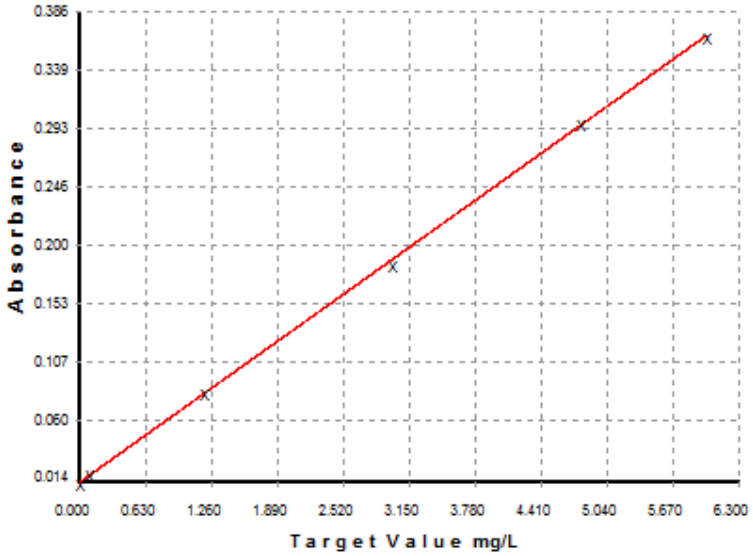
TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0138	-0.0077	0.0000	
S90	0.0216	0.1252	0.1000	25.16
S91	0.0853	1.2061	1.2000	0.51
S92	0.1875	2.9414	3.0000	-1.95
S93	0.2991	4.8366	4.8000	0.76
S94	0.3675	5.9983	6.0000	-0.03
S0	0.0148	0.0109	0.0000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	0.3
Calibration equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured absorbance
a =:	-2.411511E-001
b =:	1.697678E+001
Date & Time:	2020-10-16 16:12:12

Calibration Graph



Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
	S1	Standard 1	0.0138			0.013752			KS	2020-10-16 15:59:03
	S90	Standard 90	0.0216			0.021577			KS	2020-10-16 16:01:14
	S91	Standard 91	0.0853			0.085252			KS	2020-10-16 16:03:26
	S92	Standard 92	0.1875			0.187465			KS	2020-10-16 16:05:37
	S93	Standard 93	0.2991			0.299102			KS	2020-10-16 16:07:49
	S94	Standard 94	0.3675			0.367531			KS	2020-10-16 16:10:01
	S0	Standard 0	0.0148			0.014848			KS	2020-10-16 16:12:12
	CCV	CCV	2.7956	mg/L		0.178878			KS	2020-10-16 16:14:24
	CCB	CCB	0.0056	mg/L		0.014535			KS	2020-10-16 16:16:36
4	U2	ICV NO3 TOXN	2.8868	mg/L		0.184249			KS	2020-10-16 16:18:48
5	U3	ICB NO2 NO3 TOXN	0.0158	mg/L		0.015136			KS	2020-10-16 16:21:00
6	U4	201016A Blk NO2 NO3 TOXN	-0.0243ELL	mg/L		0.012776			KS	2020-10-16 16:23:13
8	U6	201016A LCS NO3 TOXN	3.0267	mg/L		0.192491			KS	2020-10-16 16:25:25
9	U7	201016A LCSD NO3 TOXN	2.9921	mg/L		0.190450			KS	2020-10-16 16:27:37
11	U9	1 PPM NO3	0.9674	mg/L		0.071191			KS	2020-10-16 16:29:49
12	U10	BA20054W08 pH 8.57	0.5712	mg/L		0.047849			KS	2020-10-16 16:32:07
13	U11	BA20057W08 pH 7.99	-0.0126ELL	mg/L		0.013465			KS	2020-10-16 16:34:25
14	U12	BA20060W08 pH 6.11	1.4655	mg/L		0.100530			KS	2020-10-16 16:36:44
15	U13	BA20062W08 pH 7.05	0.5237	mg/L		0.045052			KS	2020-10-16 16:39:02
	CCV	CCV	2.8245	mg/L		0.180578			KS	2020-10-16 16:41:21
	CCB	CCB	0.0058	mg/L		0.014548			KS	2020-10-16 16:43:40
16	U14	BA20064W08 pH 5.36	1.2706	mg/L		0.089048			KS	2020-10-16 16:46:00
17	U15	BA20131W01 pH 6.10	2.5596	mg/L		0.164977			KS	2020-10-16 16:48:18
18	U16	BA20133W01 pH 5.24	21.9190	mg/L		0.143316	x10.0000		KS	2020-10-16 17:33:21
18	U16	BA20133W01 pH 5.24	23.2267	mg/L		1.382351			KS	2020-10-16 16:50:38
19	U17	BA20184W08 pH 6.36	0.8601	mg/L		0.064870			KS	2020-10-16 16:52:56
20	U18	BA20186W08 pH 5.95	1.2838	mg/L		0.089824			KS	2020-10-16 16:55:15
21	U19	BA20188W08 pH 7.32	0.3959	mg/L		0.037526			KS	2020-10-16 16:57:34
22	U20	BA20190W08 pH 8.03	1.8641	mg/L		0.124010			KS	2020-10-16 16:59:52
23	U21	BA20268W08 pH 6.38	0.2279	mg/L		0.027631			KS	2020-10-16 17:02:12
24	U22	BA20476W12	4.7164	mg/L		0.292020			KS	2020-10-16 17:02:51
25	U23	BA20477W12	4.8499	mg/L		0.299882			KS	2020-10-16 17:03:56
	CCV	CCV	2.9639	mg/L		0.188789			KS	2020-10-16 17:04:52
	CCB	CCB	-0.0028	mg/L		0.014039			KS	2020-10-16 17:05:49
26	U24	BA20478W36	4.5729	mg/L		0.283569			KS	2020-10-16 17:06:47
27	U25	BA20478W36 MS	8.5765	mg/L		0.064724	x10.0000		KS	2020-10-16 17:34:17
27	U25	BA20478W36 MS	8.2622	mg/L		0.500880			KS	2020-10-16 17:07:43
28	U26	BA20478W36 MSD	8.5093	mg/L		0.064328	x10.0000		KS	2020-10-16 17:35:14
28	U26	BA20478W36 MSD	8.2703	mg/L		0.501361			KS	2020-10-16 17:08:39
	CCV	CCV	3.0374	mg/L		0.193121			KS	2020-10-16 17:09:36

CCB	CCB	0.0012	mg/L	0.014274	KS	2020-10-16 17:10:33
CCV	CCV	3.0746	mg/L	0.195313		2020-10-16 17:31:26
CCB	CCB	0.0045	mg/L	0.014469		2020-10-16 17:32:24
CCV	CCV	2.9467	mg/L	0.187776		2020-10-16 17:36:10
CCB	CCB	-0.0070	mg/L	0.013791		2020-10-16 17:37:08

Nitrate-N

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
4	U2	ICV NO3 TOXN	2.8765	mg/L		0.000000			KS	2020-10-16 16:18:48
4	U2	ICV NO3 TOXN				0.000000			KS	2020-10-16 16:18:48
5	U3	ICB NO2 NO3 TOXN	0.0124	mg/L		0.000000			KS	2020-10-16 16:21:00
5	U3	ICB NO2 NO3 TOXN				0.000000			KS	2020-10-16 16:21:00
6	U4	201016A Blk NO2 NO3 TOXN	-0.0283	mg/L		0.000000			KS	2020-10-16 16:23:13
6	U4	201016A Blk NO2 NO3 TOXN				0.000000			KS	2020-10-16 16:23:13
8	U6	201016A LCS NO3 TOXN	3.0160	mg/L		0.000000			KS	2020-10-16 16:25:25
8	U6	201016A LCS NO3 TOXN				0.000000			KS	2020-10-16 16:25:25
9	U7	201016A LCSD NO3 TOXN	2.9884	mg/L		0.000000			KS	2020-10-16 16:27:37
9	U7	201016A LCSD NO3 TOXN				0.000000			KS	2020-10-16 16:27:37
11	U9	1 PPM NO3	0.9544	mg/L		0.000000			KS	2020-10-16 16:29:49
11	U9	1 PPM NO3				0.000000			KS	2020-10-16 16:29:49
24	U22	BA20476W12	4.7130	mg/L		0.000000			KS	2020-10-16 17:02:51
24	U22	BA20476W12				0.000000			KS	2020-10-16 17:02:51
25	U23	BA20477W12	4.8454	mg/L		0.000000			KS	2020-10-16 17:03:56
25	U23	BA20477W12				0.000000			KS	2020-10-16 17:03:56
26	U24	BA20478W36	4.5694	mg/L		0.000000			KS	2020-10-16 17:06:47
26	U24	BA20478W36				0.000000			KS	2020-10-16 17:06:47
27	U25	BA20478W36 MS	7.8549	mg/L		0.000000			KS	2020-10-16 17:34:17
27	U25	BA20478W36 MS				0.000000			KS	2020-10-16 17:34:17
28	U26	BA20478W36 MSD	7.7677	mg/L		0.000000			KS	2020-10-16 17:35:14
28	U26	BA20478W36 MSD				0.000000			KS	2020-10-16 17:35:14

Nitrite

High Point @ 1.5 mg/L
0.2463 mL NO2 Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

CCV @ 0.75 mg/L
0.1232 mL NO2 Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

ICV/LCS @ 0.73 mg/L
0.120 mL NO2 Inorganic Ventures lot M2-NOX660562-40468 exp: 08/25/21
50 mL DI Water

1 mg/L NO2
400 uL of High point and 200 uL of DI made directly into a sample cup

Prep 10/15/20
Exp 10/29/20
ERR

Nitrate/TOXN

High Point @ 6 mg/L
0.300 mL NO3 O2Si lot 880117-4-39577 exp: 2/21/20
50 mL DI Water

CCV @ 3.0 mg/L
0.150 mL NO3 O2Si lot 880117-4-39577 exp: 2/21/20
50 mL DI Water

ICV/LCS @ 3.0 mg/L
0.150 mL NO3 Inorganic Ventures lot P2-NOX675324-49391 exp: 02/14/23
50 mL DI Water

1 mg/L NO3
100 uL of High point and 500 uLof DI made directly into a sample cup

MS @ 0.73 mg/L NO2 and 2.5 mg/L NO3
0.120 mL NO2 Inorganic Ventures lot M2-NOX660562-40468 exp: 08/25/21and
0.125 mL NO3 Inorganic Ventures lot P2-NOX675324-49391 exp: 02/14/23
Final volume 50 mL of sample

Prep 10/15/20
Exp 10/29/20
ERR

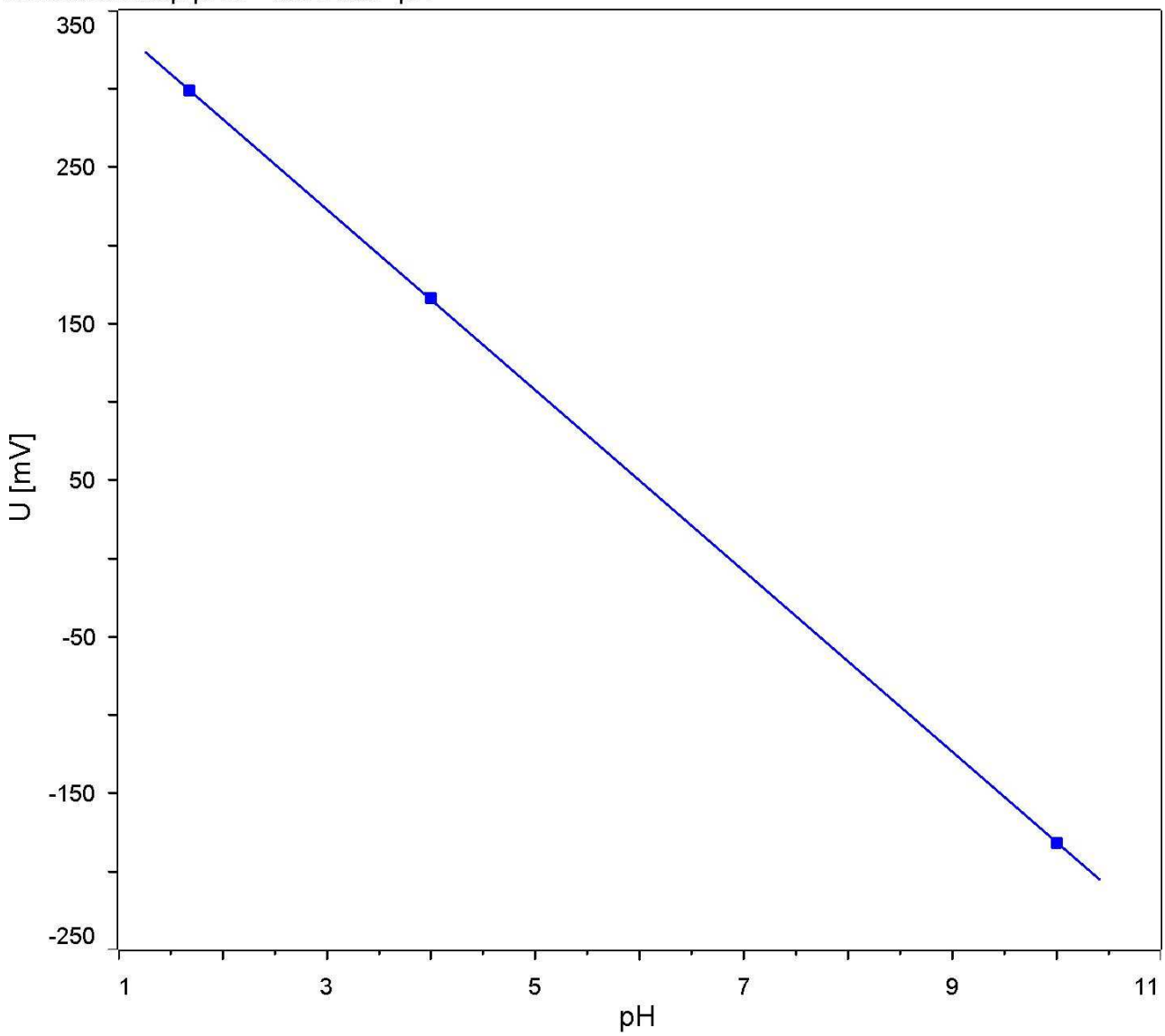
Timao Calibration Curve

2020-10-21 14:30:22

Calculations

Buffer 7	6.99	
Formula	'MEAS pH.EME'	
MEAS pH.EME	6.9929	
Slope	99.60	
Formula	'Calibration loop pH.SLO'	
Calibration loop pH.SLO	99.6	
pH(as)	6.86	
Formula	'Calibration loop pH.ENP'	
Calibration loop pH.ENP	6.863	
Res19	19.1	°C
Formula	'CAL MEAS pH.ETE'	
CAL MEAS pH.ETE	19.0843	

Calibration loop pH.1 - CAL LOOP pH



Metrohm 814/809 Titrando Data

Sample ID	Analysis Date/Time	Method	Titration Volume (to 8.3)	Titration Volume (total)	OH	CO3	HCO3	Total Alk	Unit	Sample Vol	N	Batch	Initials
BA20190W07	2020-10-21 17:58:28 UTC-7	Alkalinity	0.000	4.026	0.00	0.00	163.46	163.46	mg/L	25 mL	0.0203	201021A	AR
BA20188W07	2020-10-21 17:53:44 UTC-7	Alkalinity	0.000	1.740	0.00	0.00	70.64	70.64	mg/L	25 mL	0.0203	201021A	AR
201021A LCS	2020-10-21 17:42:47 UTC-7	Alkalinity	0.222	6.630	0.00	18.03	251.15	269.18	mg/L	25 mL	0.0203	201021A	AR
BA20186W07	2020-10-21 17:35:50 UTC-7	Alkalinity	0.000	2.722	0.00	0.00	110.51	110.51	mg/L	25 mL	0.0203	201021A	AR
BA20184W07	2020-10-21 17:22:37 UTC-7	Alkalinity	0.000	2.008	0.00	0.00	81.52	81.52	mg/L	25 mL	0.0203	201021A	AR
201021A LCSD	2020-10-21 16:47:24 UTC-7	Alkalinity	0.304	6.176	0.00	24.68	226.06	250.75	mg/L	25 mL	0.0203	201021A	AR
201021A BLK	2020-10-21 16:36:27 UTC-7	Alkalinity	0.000	0.030	0.00	0.00	1.22	1.22	mg/L	25 mL	0.0203	201021A	AR

Tiamo Alkalinity Standard Prep

Prep'd By (Initials): AR

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Unit	Conc	Lot Number - QA Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc
Sulfuric Acid (H2SO4)	J.T.Baker	NA	NA	**167828**	**NA**	**NA**	PURCHASED	NA	NA	NA
0.10N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.1N	**167828**	**03/06/20**	**03/06/21**	3ml	1L	DI	0.10N
0.02N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.02N	**167828**	**03/06/20**	**03/06/21**	200mL	1L	DI	0.02N
Inorganic Spike(NaHCO3)	BDH	NA	NA	**19K0856189**	**04/09/20**	**NA**	PURCHASED	NA	NA	NA
Inorganic Spike Solution	BDH	Milligrams/Liters	250mg/L	**1575C510**	**07/27/20**	**01/27/21**	3.5g	500mL	DI	250mg/L
Standarizing Solution(NaCO3)	J.T.Baker	Normality	1N	**223443**	**07/02/20**	**03/11/21**	PURCHASED	NA	NA	NA

Tiamo Electroconductivity Standard Prep

Prep'd By (Initials): AR

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Units	Conc	Lot Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc. Range (µg/mL)
EC Spike(KCl)	Mallinckrodt AR	Na	NA	**6858 KHMV**	**NA**	**NA**	PURCHASED	NA	NA	NA
EC Spike Solution	Mallinckrodt AR	Moles/Conductivity	0.01M	**6858 KHMV**	**04/23/20**	4/23/21	0.7456g	1L	DI	1412umos
EC Daily LCS Solution	Mallinckrodt AR	Moles/Conductivity	0.0070824M	**6858 KHMV**	05/25/20	5/25/21	0.5280g	1L	DI	1000umos
Storage Solution EC Probe	APPL	NA	NA	NA	NA	NA	NA	NA	DI	NA

Tiamo pH Buffer Reference Standards

Prep Date: Daily

Exp Date: Daily

Prep'd By (Initials): AR **AR**

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Units	pH	Lot Number - QA Number	Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
pH 1.68 Buffer	VWR	pH Units	1.68	**1006705**	**07/02/20**	**11/27/20**	NA	NA	NA	NA
pH 4.00 Buffer	VWR	pH Units	4	**1901A35-40706**	**01/19/19**	**01/13/21**	NA	NA	NA	NA
pH 10.01 Buffer	VWR	pH Units	10.01	**1004B81**	**07/02/20**	**10/12/21**	NA	NA	NA	NA
pH 7.00 Buffer	Ricca	pH Units	7	**1912A15**	**07/02/20**	**12/01/21**	NA	NA	NA	NA

Ferrous Iron — Rev 2, 04-05-19

Method SM3500Fe | Units mg/L | Instrument: Genisis Spectrometer
Analyte Fe2+ | QCG: 201016 | Wavelength: 510 nm
Analyist fjr | Final Volume: 50mL | Units: mg/L

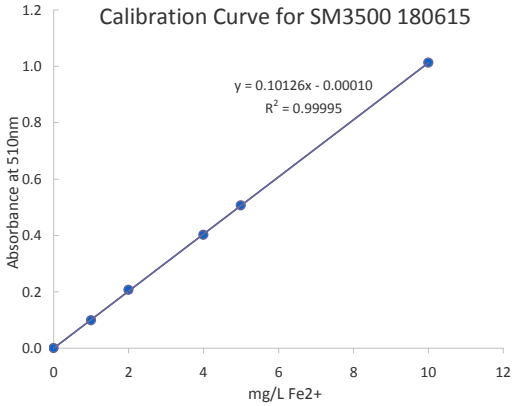
Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery
06/26/20	10:49	ICB	0.00	0.000	
06/26/20	10:49	Ical 1	1.00	0.099	97.9%
06/26/20	10:50	Ical 2	2.00	0.207	102.3%
06/26/20	10:51	Ical 3	4.00	0.402	99.3%
06/26/20	10:51	Ical 4	5.00	0.506	100.0%
06/26/20	10:52	Ical 5	10.00	1.013	100.1%
06/26/20	10:52	ICV	3.00	0.313	103.1%
06/26/20	10:53	ICB	0.00	0.000	

Slope	0.101255102
Intercept	-0.000102041
Coefficient of Determination	0.999948376

Algortithm Check:	Appl ID	Absorbance	Result
	LCS A201016	0.305	3.01

Result = (Absorbance-Raw Blk-Intercept)/ Slope

Test:	FJR	10/16/20	3.01



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
10/16/20	19:43	CCV 4.0 A201016	1	0.400	25mL		3.95	3.95	4.00	98.8%
10/16/20	19:43	CCB A201016	1	0.000	25mL		0.00	0.00		
10/16/20	19:44	LCS A201016	1	0.305	25mL		3.01	3.01	3.00	100.4%
10/16/20	19:44	LCSD A201016	1	0.308	25mL		3.04	3.04	3.00	101.4%
10/16/20										
10/16/20										
10/16/20	19:44	BA19198W01 PT	1	0.012	25mL		0.12	0.12		
10/16/20	19:46	BA20023W09	1	0.044	25mL		0.44	0.44		
10/16/20	19:46	BA20025W09	1	0.009	25mL		0.09	0.09		
10/16/20	19:47	BA20054W12	1	0.006	25mL		0.06	0.06		
10/16/20	19:47	BA20057W09	1	0.224	25mL		2.21	2.21		
10/16/20	19:48	BA20060W09	1	0.010	25mL		0.10	0.10		
10/16/20	19:48	BA20062W09	1	0.012	25mL		0.12	0.12		
10/16/20	19:49	BA20064W09	1	0.008	25mL		0.08	0.08		
10/16/20	19:49	BA20184W09	1	0.007	25mL		0.07	0.07		
10/16/20	19:50	BA20186W09	1	0.007	25mL		0.07	0.07		
10/16/20	19:50	BA20188W09	1	0.012	25mL		0.12	0.12		
10/16/20	19:51	BA20190W09	1	0.022	25mL		0.22	0.22		
10/16/20	19:51	BA20190W09 MS	1	0.312	25mL		3.08	3.08		
10/16/20	19:52	BA20190W09 MSD	1	0.314	25mL		3.10	3.10		
10/16/20	19:52	CCV 4.0 A201016	1	0.404	25mL		3.99	3.99	4.00	99.8%
10/16/20	19:53	CCB A201016	1	0.003	25mL		0.03	0.03		

Standard Prep

	Ferrous Iron Standards		Prep'd By (Initials)		FJR		
Prep Date	06/26/20						
Exp Date	06/26/21						
Stock Label	Supplier	Batch Number	Exp Date	Aliquot from Stock	Final Volume	Solvent	Ferrous Iron Concentration
Ferrous Ammonium Sulfate	J.T.Baker	0000184592	08/21/20	0.351	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Sulfate	Mallinckrodt	Lot 5056 KDRX	NA	0.250	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Iron CCV/LCS/MS/ICV			Prep'd By (Initials)		FJR		
Prep Date	See Injection Log						
Exp Date	24 Hours						
Initial Standard Information	Supplier	Batch Number	Exp Date	Final Standard Information			
Ferrous Iron CCV	J.T.Baker	0000184592	Prep Daily	500uL	25mL	Deionized water	4mg/L
Ferrous Iron ICV/LCS	Mallinckrodt	Lot 5056 KDRX	Prep Daily	375uL	25mL	Deionized water	3mg/L
	Ferrous Iron Calibration Curve		Prep'd By (Initials)		FJR		
Prep Date	06/26/20						
Exp Date	06/26/21						
Final Standard Information							
Point Label	Supplier	Batch Number	Exp Date	Aliquot from Stock (mL)	Final Volume	Solvent	Ferrous Iron Concentration
CCB	J.T.Baker	0000184592	06/26/21	0	25mL	Deionized water	0mg/L
Ical 1	J.T.Baker	0000184592	06/26/21	0.125	25mL	Deionized water	1mg/L
Ical 2	J.T.Baker	0000184592	06/26/21	0.25	25mL	Deionized water	2mg/L
Ical 3	J.T.Baker	0000184592	06/26/21	0.5	25mL	Deionized water	4mg/L
Ical 4	J.T.Baker	0000184592	06/26/21	0.625	25mL	Deionized water	5mg/L
Ical 5	J.T.Baker	0000184592	06/26/21	1.25	25mL	Deionized water	10mg/L
ICV	Mallinckrodt	Lot 5056 KDRX	06/26/21	0.375	25mL	Deionized water	3mg/L

Reagent Prep

Reagent	Chemical Lot #	Chemical	Chemical Expiration Date	Amount	Date Prep
Colorizer	0747C107	1,10-phenanthroline	na	0.2056	07/28/20
		HCL conc	na	enough to dissolve	
Buffer	Z28B018	Ammonia Acetate	na	249.2	04/29/20
	2018071399	Glacial Acetic Acid	na	700mL	

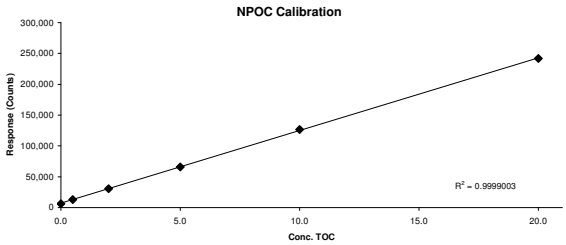
TOTAL ORGANIC CARBON

Method: WetChem | Units mg/L | Instrument: Tic Toc

Analyte: TOC | QCG: 201019A

Analyist: AAR | Final Volume: 40mL

Date	Time	Appl ID	[TOC]	Raw	% Recovery
06/11/20	0:01	QC blank	0.00	6172	
06/11/20	0:41	Ical 1	0.50	13120	
06/11/20	1:19	Ical 2	2.00	30622	
06/11/20	1:58	Ical 3	5.00	66151	
06/11/20	2:37	Ical 4	10.00	126505	
06/11/20	3:16	Ical 5	20.00	241922	
06/11/20	18:06	ICB	0.00	6336	
06/11/20	18:46	ICV	4.99	65817	99.8%



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Filter Blank Subtract	Calc Conc	Result	Range (mg/L)	QC True	% Recovery
2020-10-20	07:19 AM	CCV	1	60799	40mL	0.000	4.851	4.85	0.02	5.00	97.0%
2020-10-20	07:59 AM	CCB	1	5469	40mL	0.000	0.155	0.16	0.00		
2020-10-20	08:38 AM	201019A LCS	1	61247	40mL	0.000	4.89	4.89	0.04	5.00	97.8%
2020-10-20	09:19 AM	201019A LCSD	1	60901	40mL	0.000	4.86	4.86	0.02	5.00	97.2%
2020-10-20	10:00 AM	BA19743W03 DF20	20	156777	40mL	0.000	13.164	263.28	1.72		
2020-10-20	10:39 AM	BA20054W08	1	7592	40mL	0.000	0.501	0.50	0.05		
2020-10-20	11:16 AM	BA20054W08 MSD	1	54623	40mL	0.000	4.493	4.49	1.45		
2020-10-20	11:54 AM	BA20184W05	1	8965	40mL	0.000	0.617	0.62	0.00		
2020-10-20	12:31 PM	BA20186W05	1	7603	40mL	0.000	0.502	0.50	0.06		
2020-10-20	01:09 PM	BA20188W05	1	11059	40mL	0.000	0.795	0.80	0.01		
2020-10-20	01:47 PM	BA20190W06	1	7837	40mL	0.000	0.522	0.52	0.01		
2020-10-20	02:25 PM	BA20268W06	1	7386	40mL	0.000	0.483	0.48	0.02		
2020-10-20	03:02 PM	CCV	1	59855	40mL	0.000	4.937	4.94	0.17	5.00	98.7%
2020-10-20	03:39 PM	CCB	1	4952	40mL	0.000	0.111	0.11	0.02		

Name of Final Standard TOC Calibration Curve — **Prep'd By (Initials)** AR

Prep Date 01/15/20

Exp Date 01/15/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	20 uL	40 mL	DI Water	0.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	250 uL	40 mL	DI Water	5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	500 uL	40 mL	DI Water	10 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	1000 uL	40 mL	DI Water	20 ppm

Name of Final Standard ICV (TOC) — **Prep'd By (Initials)** HH

Prep Date 01/15/20

Exp Date 01/15/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1000 PPM ICV TOC Intermediate	APPL Inc.	Prep: 2/11/19	1000 mg/L	Prep: 2/11/19	01/15/21	500 uL	40mL	DI Water	10 ppm

Name of Final Standard CCV (TOC) — **Prep'd By (Initials)** AR

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard TOC_LCS/LCSD — **Prep'd By (Initials)** AR

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	02/28/19	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard TOC_MS/MSD — **Prep'd By (Initials)** AR

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	02/28/19	200 uL	40 mL	sample	5 ppm

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

November 10, 2020

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Brooke Gottmeier

Title: Report of Data: Case 93765

Project: 60571032 CV18F0126 Red Hill Fuel Storage, HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

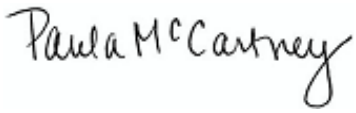
Dear Ms. Gottmeier:

Two water samples were received October 16, 2020. Written results for the requested analyses are being provided on this November 10, 2020.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
for
60571032 CV18F0126 Red Hill Fuel Storage
APPL SDG 93765
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CASE NARRATIVE

Case Narrative

ARF: 93765

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Two water samples were received October 16, 2020, at and 5.0°C. The sample group was assigned Analytical Request Form (ARF) number 93765.

Sample Preparation and Analysis Information:

For the EPA 8015B analysis, the sample was extracted according to EPA method 3520C. The sample extracts were silica gel cleaned according to APPL's SOP CLN004 and placed on hold.

For the EPA 8270D Phenol analysis, the sample was extracted according to EPA method 3520C.

For the EPA 8270D SIM analysis, the sample was extracted according to EPA method 3520C.

For the APPL SOP ANA2MEE analysis, the sample was extracted according to EPA method 3535.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the RSK-175 analysis, the sample was allowed to equilibrate for 10 minutes at 40°C and a portion of the headspace was analyzed.

For the EPA 9060A, 300.0, 353.2, SM 2320B, and SM 3500FeB analyses, the sample was prepared according to the methods.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

RSK-175. Manual integrations were performed for this method in accordance with APPL's SOP. Chromatograms for before and after manual integration are enclosed for specific samples and analytes. Abbreviated flags for technical justification are listed on the chromatogram.

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
93765	10/16/20	ERH1182	BA20267	10/15/20 8:50:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
93765	10/16/20	ERH1182	BA20267	10/15/20 8:50:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93765	10/16/20	ERH1182	BA20267	10/15/20 8:50:00 AM	WATER	RSK 175	METHANE BY RSK 175
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	EPA 353.2	WETLAB 353.2 TOXN- WATER
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	SM3500FeB	Ferrous Iron
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	EPA 8270D	EPA 8270D WATER
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH WATER L-L SGC
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	RSK 175	METHANE BY RSK 175
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
93765	10/16/20	ERH1183	BA20268	10/15/20 9:40:00 AM	WATER	SW846 9060A	9060A TOC

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

SAMPLE RECORDS MANAGEMENT

CHAIN OF CUSTODY,

ARF, CRF, AND

CLIENT COMMUNICATION

APPL - Analysis Request Form

93765

Client: **AECOM**
Address: **1001 Bishop Street, Suite 1600**
Honolulu, HI 96813
Attn: **Brooke Gottmeier**
Phone: **808-954-4536** Fax: **808-523-8950**
Job: **60571032 CV18F0126 Red Hill Fuel Storage**
PO #: **18S-22209-HI27 PO# 102604**
Chain of Custody (Y/N): **Y** # **113**
RAD Screen (Y/N): **Y** pH (Y/N): **Y**
Turn Around Type: **1 WEEK**

Received by: **AAR**
Date Received: **10/16/20** Time: **10:15**
Delivered by: **FEDEX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-10**
Chest Temp(s): **5.0°C**
Color: **VFRG/I-PurRed**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Libby Cheesebor**
QC Report Type: **DVP4DOD/EQUIS/HI**
Due Date: **10/23/20**

Comments:
PM: login and F1s to Margie.Pascua@aecom.com & brooke.gottmeier@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms: LOD database
Report MS/MSD/DUPs when AECOM sample used
Wetlab: EPA 300 (NO3,CL,SO4). EPA 353.2 (TOXN).
8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; $87DC53W5: report phenol only
FR: email ftp info to Margie, Stella, trommelfanger@lab-data.com & jcanlas@lab-data.com
EDD: AECOM EQuIS EDD 2.5.3 Red Hill 87DMEE->3535A to brooke.gottmeier@, Margie.Pascua@aec

Sample Distribution:
GC: 1-$87DC53W5, 1-$87DMEEW5, 1-$DOC53W5LIQ, 1-$SIM53LIQ51
Extractions: 1-_LIQ003, 1-_LIQ005, 1-_MWE2MEE
VOA: 2-$86BTOTXDOD5W, 2-$GASBL, 2-$GRO86BW, 2-$RSKMETH
Wetlab: 1-$232W(HCO3,CO3,ALK), 1-$300W, 1-$353TOXNW, 1-$35FE, 1-$TOCW53

Charges:

Invoice To:
ACCOUNTS PAYABLE
1001 Bishop Street, Ste 1600
USAPImaging@aecom.com
mary.basano@aecom.com

	Client ID		APPL ID	Sampled		Analyses Requested
1.	ERH1182	LCSD	BA20267W	10/15/20	08:50	$86BTOTXDOD5W, $GASBL, $GRO86BW, $RSKMETH -- See Comments
2.	ERH1183	LCSD	BA20268W	10/15/20	09:40	$232W(HCO3,CO3,ALK), $300W, $353TOXNW, $35FE, $86BTOTXDOD5W, $87DC53W5, $87DMEEW5, $DOC53W5LIQ, $GASBL, $GRO86BW, $RSKMETH, $SIM53LIQ51, $TOCW53 -- See Comments

APPL Sample Receipt Form

ARF# **93765**

Sample	Container Type	Count	p
BA20267	[13] VOAs - HCL	4	NA
BA20268	[3] PL 250mL	1	NA
	[10] PL 250mL - H2SO4	1	1.6
	[13] VOAs - HCL	4	NA
	[17] Amber Liter	4	NA
	[32] Clear VOA - H2SO4	2	NA
	[38] 250mL brn poly, HCl prsvd	1	1.3
	[40] 500mL Amber, unprsrvd	3	NA

Sample	Container Type	Count	p

93765

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com
Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

C.O.C. 113

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-954-4536	Company Name: AECOM Phone: 512-419-6709
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950	Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Brooke Gottmeier	Attn: Sheree Smith
Email: brooke.gottmeier@aecom.com	Email: sheree.smith@aecom.com; usapimaging@aecom.com

Project Name/Number: CV18F0126 / 60571032
Purchase Order Number: 102604
Sampler (Print): GM, JV, RS
Sampler (Signature):

Date Shipped: 10/15/20
Carrier: FedEx
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Sed.	Soil	8260C BTEX,TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity 300.0 Nitrate,Sulfate,Chloride	300.0 Bromide/Fluoride 6010 Total Ca,Mg,Mn,K,Na SM4500 Total & Dissolved Silica	9060A TOC	9060A DOC
ERH1182	Trip Blank	10/15/20	0850	HST	4	X			X							X						
ERH1183	HDMW2253-03	10/15/20	0940	HST	16	X			X		X	X*	X	X	X	X	X	X	X		X	

10/15/20

*Analyze TPH w/SGT only if TPH-d/o detected.

** MS/MSD: 8011, 8015, 8260, 8270, 8270SIM

TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature: R4 @ 5.0 / 5.0

Turnaround Requested: Check one
☐ Standard 2-3 wk ☒ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other: _____

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
(AECOM)	10/15/20	13:00					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					10/16/20	1015	

See page 2 for Container Preservative and Sampling Information

COOLER RECEIPT FORM **ARF: 93765**

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 10/16/20

2) Coolers: Number of Coolers: 1

3) YES Were custody seals present and intact?
How many? 2 Name/Date on seal? JV 10-15-2020

4) YES Was there a shipping slip? Carrier name: FEDEX

5) Type of packing in cooler: X bubble wrap __ popcorn __ foam X plastic bags __ other
X wet ice __ dry ice __ no ice __ gel ice

6) YES Were cooler temperatures acceptable?

7) Serial number of calibrated thermometer used: R4 CF: +0.0°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp
1: 5.0/5.0 2: 3: 4: 5: 6:
7: 8: 9: 10: 11: 12:

Chain of custody:

9) YES Was a chain of custody received?

10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?

12) YES Did all container labels agree with custody papers?

Sample Containers:

13) YES Were all containers sealed in separate bags?

14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?

15) YES Were correct containers and preservatives used for the tests indicated?

16) YES Was a sufficient amount of sample sent for tests indicated?

17) Yes Were bubbles present in volatile samples?
If yes, the following were received with air bubbles:
Larger than a pea: BA20267 W01-4
Smaller than a pea:

Preservation Hold time:

18) Yes Was a sufficient amount of holding time remaining to analyze the samples?

19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container?

20) Yes Was the pH of acid preserved non-VOA samples < 2?

21) NA Was the pH of the "basic" preserved samples for Cyanide > 12, Sulfide >9, Hexchrom >9?

22) NO Were unpreserved VOA Vials received for VOA Dept analysis?

23) NA If "yes", are the unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?
pH strip lot number:
Lab notified if pH was not adequate:

Notes/Deficiencies:

CUSTODY SEAL
AECOM (808)521-3051
Initials JV Date 10/15/2020

Personnel receiving samples: AA Second reviewer: AA
Personnel labeling samples: RBP
Project manager notified: AA Date/Time of notification 10/16/20
Name of client notified: Date/Time of notification

SAMPLE RESULTS

EPA 8015B TPH WATER L-L SGC

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1183

APPL ID: BA20268

Sample Collection Date: 10/15/20

QCG: #DOC53-201019A1-258239

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/19/20	10/22/20
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	10/19/20	10/22/20
EPA 8015B-e	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	10/19/20	10/22/20
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	65.0	60-142			%	10/19/20	10/22/20
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	62.9	56-125			%	10/19/20	10/22/20

Quant Method:	DOC0905.M
Run #:	1019095
Instrument:	Apollo
Sequence:	201019
Dilution Factor:	1
Initials:	SSE

Printed: 11/06/20 3:50:16 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1183

APPL ID: BA20268

Sample Collection Date: 10/15/20

QCG: #DOC53-201019A-257647

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/19/20	10/21/20
EPA 8015B-e	OIL (C24-C40)	320 B	320	300.0	150.0	ug/L	10/19/20	10/21/20
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	86.6	60-142			%	10/19/20	10/21/20
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	83.3	56-125			%	10/19/20	10/21/20

B = The analyte was found in a method blank, as well as in the sample.

Quant Method:	DOC0905.M
Run #:	1019065
Instrument:	Apollo
Sequence:	201019
Dilution Factor:	1
Initials:	SSE

Printed: 11/06/20 3:50:16 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1183

APPL ID: BA20268

Sample Collection Date: 10/15/20

QCG: #87DC5-201021A-257854

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/21/20	10/23/20
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	100	43-140			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	95.9	44-119			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	91.0	19-119			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	96.5	44-120			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: PHENOL-D6 (S)	89.1	10-115			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	109	50-134			%	10/21/20	10/23/20

Quant Method: Y1009.M
Run #: 1009Y222
Instrument: Yoda
Sequence: Y201009
Dilution Factor: 1
Initials: MA

Printed: 10/26/20 5:19:14 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1183

APPL ID: BA20268

Sample Collection Date: 10/15/20

QCG: #SIM53-201021A-257900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	100	39-114			%	10/21/20	10/23/20
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	97.9	58-120			%	10/21/20	10/23/20

Quant Method:	L1016.M
Run #:	1016L121
Instrument:	Linus
Sequence:	L201016
Dilution Factor:	1
Initials:	MA

Printed: 11/09/20 10:54:44 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1183

Sample Collection Date: 10/15/20

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 93765

APPL ID: BA20268

QCG: #87DME-201019A-257636

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/19/20	10/20/20

Quant Method:	YMEE0501.M
Run #:	0501Y126
Instrument:	Yoda
Sequence:	Y200501M
Dilution Factor:	1
Initials:	MA

Printed: 10/21/20 4:15:07 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1182

APPL ID: BA20267

Sample Collection Date: 10/15/20

QCG: #86BTO-201019AZ-257672

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/19/20	10/19/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/19/20	10/19/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/19/20	10/19/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/19/20	10/19/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	117	81-118			%	10/19/20	10/19/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	110	85-114			%	10/19/20	10/19/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	114	80-119			%	10/19/20	10/19/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	108	89-112			%	10/19/20	10/19/20

Quant Method: Z1019W.M
Run #: 1019Z38
Instrument: ZEUS
Sequence: 201019
Dilution Factor: 1
Initials: DG

Printed: 11/09/20 1:23:05 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1183

APPL ID: BA20268

Sample Collection Date: 10/15/20

QCG: #86BTO-201019AZ-257672

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/19/20	10/19/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/19/20	10/19/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/19/20	10/19/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/19/20	10/19/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	121 #	81-118			%	10/19/20	10/19/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	110	85-114			%	10/19/20	10/19/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	115	80-119			%	10/19/20	10/19/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	108	89-112			%	10/19/20	10/19/20

= Recovery (or RPD) is outside QC limits.

Quant Method: Z1019W.M
Run #: 1019Z39
Instrument: ZEUS
Sequence: 201019
Dilution Factor: 1
Initials: DG

Printed: 11/09/20 1:23:05 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1182

APPL ID: BA20267

Sample Collection Date: 10/15/20

QCG: #GRO86-201019AZ-257680

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/19/20	10/19/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	110	85-114			%	10/19/20	10/19/20

Quant Method: Z1019SUR.M
Run #: 1019Z38
Instrument: ZEUS
Sequence: 201019
Dilution Factor: 1
Initials: DG

Printed: 11/09/20 1:55:59 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1183

APPL ID: BA20268

Sample Collection Date: 10/15/20

QCG: #GRO86-201019AZ-257680

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/19/20	10/19/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	110	85-114			%	10/19/20	10/19/20

Quant Method: Z1019SUR.M
Run #: 1019Z39
Instrument: ZEUS
Sequence: 201019
Dilution Factor: 1
Initials: DG

Printed: 11/09/20 1:55:59 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1182

APPL ID: BA20267

Sample Collection Date: 10/15/20

QCG: #RSKME-201021A-257679

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	7.0	5.0	1.00	0.25	ug/L	10/21/20	10/21/20

Quant Method:	RSK0914A.M
Run #:	1021R18
Instrument:	Rocky
Sequence:	200914
Dilution Factor:	1
Initials:	GAG

Printed: 10/21/20 3:41:13 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93765

Sample ID: ERH1183

APPL ID: BA20268

Sample Collection Date: 10/15/20

QCG: #RSKME-201021A-257679

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	7.7	5.0	1.00	0.25	ug/L	10/21/20	10/21/20

Quant Method:	RSK0914A.M
Run #:	1021R19
Instrument:	Rocky
Sequence:	200914
Dilution Factor:	1
Initials:	GAG

Printed: 10/21/20 3:41:13 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1183

APPL ID: BA20268

Sample Collection Date: 10/15/20

ARF: 93765

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	42.0	1.0	0.20	0.08	mg/L	1	10/16/20	10/16/20
EPA 300.0	NITRATE	2.1	0.5	0.18	0.04	mg/L	1	10/16/20	10/16/20
EPA 300.0	SULFATE	12.6	1.0	0.20	0.09	mg/L	1	10/16/20	10/16/20

Printed: 10/26/20 3:30:53 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1183

APPL ID: BA20268

Sample Collection Date: 10/15/20

ARF: 93765

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE AS N	0.23	0.10	0.090	0.028	mg/L	1	10/16/20	10/16/20
SM 2320B	BICARBONATE AS CACO3	49.2	2.0	1.70	0.85	mg/L	1	10/21/20	10/21/20
SM 2320B	CARBONATE AS CACO3	1.70 U	2.0	1.70	0.85	mg/L	1	10/21/20	10/21/20
SM 2320B	TOTAL ALKALINITY AS CACO	49.2	2.0	1.70	0.85	mg/L	1	10/21/20	10/21/20
SM3500FeB	FERROUS IRON	0.76 J	1.0	0.32	0.16	mg/L	1	10/23/20	10/23/20
SW846 9060A	TOTAL ORGANIC CARBON	0.48 J	0.93	0.350	0.130	mg/L	1	10/20/20	10/20/20

J = Estimated value.

Printed: 10/26/20 11:41:28 AM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/20/20

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201019A-LCS	Lab Control Spike	60-142	86.3		56-125	94.1	
201019A-BLK	Blank	60-142	87.9		56-125	83.1	
BA20268	ERH1183	60-142	86.6		56-125	83.3	

Comments: Batch: #DOC53-201019A

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/22/20

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: (R) DECANOIC ACID (S)			SURROGATE: OCTACOSANE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
BA20268	ERH1183	0-1	0.0		60-142	65.0	
201019A1-BLK	Blank	0-1	0.0		60-142	91.9	
201019A1-LCS	Lab Control Spike	0-1	0.0		60-142	85.5	

Comments: Batch: #DOC53-201019A1

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/22/20

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: ORTHO-TERPHENYL (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
BA20268	ERH1183	56-125	62.9				
201019A1-BLK	Blank	56-125	80.1				
201019A1-LCS	Lab Control Spike	56-125	85.2				

Comments: Batch: #DOC53-201019A1

EPA 8015B-eH

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/21/20
Matrix:	WATER	Instrument:	Apollo
Blank ID:	201019A-BLK	Time Analyzed:	0904

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019A-LCS	Lab Control Spike	1019033	10/20/20 1607
201019A-BLK	Blank	1019059	10/21/20 0904
BA20268	ERH1183	1019065	10/21/20 1210

Comments: Batch: #DOC53-201019A

EPA 8015B-eH

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/29/20
Matrix:	WATER	Instrument:	Apollo
Blank ID:	201019A1-BLK	Time Analyzed:	1715

APPL ID.	Client Sample No.	File ID.	Date Analyzed
BA20268	ERH1183	1019095	10/22/20 2355
201019A1-BLK	Blank	1028057	10/29/20 1715
201019A1-LCS	Lab Control Spike	1028058	10/29/20 1743

Comments: Batch: #DOC53-201019A1

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **201019W-20054 - 257647**
Batch ID: #DOC53-201019A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/19/20	10/21/20
BLANK	OIL (C24-C40)	540	320	300.0	150.0	ug/L	10/19/20	10/21/20
BLANK	SURROGATE: OCTACOSANE (S)	87.9	60-142			%	10/19/20	10/21/20
BLANK	SURROGATE: ORTHO-TERPHEN	83.1	56-125			%	10/19/20	10/21/20

Quant Method: DOC0905.M
Run #: 1019059
Instrument: Apollo
Sequence: 201019
Initials: SSE

GC SC-Blank-REG MDLs-DOD
Printed: 11/06/20 3:50:22 PM

Method Blank
EPA 8015B TPH WATER L-L SGC

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201019W-20054 - 258239**
Batch ID: #DOC53-201019A1

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/19/20	10/29/20
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	10/19/20	10/29/20
BLANK	SURROGATE: (R) DECANOIC AC	0.0	0-1			%	10/19/20	10/29/20
BLANK	SURROGATE: OCTACOSANE (S)	91.9	60-142			%	10/19/20	10/29/20
BLANK	SURROGATE: ORTHO-TERPHEN	80.1	56-125			%	10/19/20	10/29/20

Quant Method: DOC0905.M
Run #: 1028057
Instrument: Apollo
Sequence: 201028
Initials: SSE

GC SC-Blank-REG MDLs-DOD
Printed: 11/06/20 3:50:22 PM

EPA 8015B-eH

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/20/20
Matrix:	WATER	Instrument:	Apollo
LCS ID:	201019A-LCS	Time Analyzed:	1607

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019A-LCS	Lab Control Spike	1019033	10/20/20 1607
201019A-BLK	Blank	1019059	10/21/20 0904
BA20268	ERH1183	1019065	10/21/20 1210

Comments: Batch: #DOC53-201019A

EPA 8015B-eH

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/29/20
Matrix:	WATER	Instrument:	Apollo
LCS ID:	201019A1-LCS	Time Analyzed:	1743

APPL ID.	Client Sample No.	File ID.	Date Analyzed
BA20268	ERH1183	1019095	10/22/20 2355
201019A1-BLK	Blank	1028057	10/29/20 1715
201019A1-LCS	Lab Control Spike	1028058	10/29/20 1743

Comments: Batch: #DOC53-201019A1

Laboratory Control Spike Recovery
EPA 8015B TPH LIQ-LIQ

APPL ID: **201019W-20054 LCS - 257647**
Batch ID: #DOC53-201019A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL (C10-C24)	1250	1150	92.0	36-132
OIL (C24-C40)	1250	1320	106	41-113
SURROGATE: OCTACOSANE (S)	75.0	64.7	86.3	60-142
SURROGATE: ORTHO-TERPHENYL (S)	75.0	70.6	94.1	56-125

Comments:

Primary	SPK
Quant Method :	DOC0905.M
Extraction Date :	10/19/20
Analysis Date :	10/20/20
Instrument :	Apollo
Run :	1019033
Initials :	SSE

Printed: 11/06/20 3:50:09 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8015B TPH WATER L-L SGC

APPL ID: **201019W-20054 LCS - 258239**
Batch ID: #DOC53-201019A1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL (C10-C24)	1250	863	69.0	36-132
OIL (C24-C40)	1250	1030	82.4	41-113
SURROGATE: (R) DECANOIC ACID (S)	10.00	0	0.0	0-1
SURROGATE: OCTACOSANE (S)	75.0	64.1	85.5	60-142
SURROGATE: ORTHO-TERPHENYL (S)	75.0	63.9	85.2	56-125

Comments:

Primary	SPK
Quant Method :	DOC0905.M
Extraction Date :	10/19/20
Analysis Date :	10/29/20
Instrument :	Apollo
Run :	1028058
Initials :	SSE

Printed: 11/06/20 3:50:09 PM
APPL Standard LCS

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	43-140	86.7		44-119	85.5	
201021A-LCS	Lab Control Spike	43-140	93.6		44-119	88.8	
201021A-LCSD	Lab Control SpikeD	43-140	101		44-119	92.0	
BA20268	ERH1183	43-140	100		44-119	95.9	

Comments: Batch: #87DC5-201021A

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	19-119	82.8		44-120	88.7	
201021A-LCS	Lab Control Spike	19-119	93.2		44-120	92.0	
201021A-LCSD	Lab Control SpikeD	19-119	97.6		44-120	97.6	
BA20268	ERH1183	19-119	91.0		44-120	96.5	

Comments: Batch: #87DC5-201021A

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	10-115	82.4		50-134	98.3	
201021A-LCS	Lab Control Spike	10-115	92.4		50-134	103	
201021A-LCSD	Lab Control SpikeD	10-115	97.2		50-134	108	
BA20268	ERH1183	10-115	89.1		50-134	109	

Comments: Batch: #87DC5-201021A

EPA 8270D

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Yoda
Blank ID:	201021A-BLK	Time Analyzed:	1321

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1009Y219	10/23/20 1321
201021A-LCS	Lab Control Spike	1009Y220	10/23/20 1347
201021A-LCSD	Lab Control SpikeD	1009Y221	10/23/20 1413
BA20268	ERH1183	1009Y222	10/23/20 1438

Comments: Batch: #87DC5-201021A

Method Blank
EPA 8270D WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201021W-20539 - 257854**
Batch ID: #87DC5-201021A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/21/20	10/23/20
BLANK	SURROGATE: 2,4,6-TRIBROMOP	86.7	43-140			%	10/21/20	10/23/20
BLANK	SURROGATE: 2-FLUORBIPHENY	85.5	44-119			%	10/21/20	10/23/20
BLANK	SURROGATE: 2-FLUOROPHENO	82.8	19-119			%	10/21/20	10/23/20
BLANK	SURROGATE: NITROBENZENE-	88.7	44-120			%	10/21/20	10/23/20
BLANK	SURROGATE: PHENOL-D6 (S)	82.4	10-115			%	10/21/20	10/23/20
BLANK	SURROGATE: TERPHENYL-D14 (	98.3	50-134			%	10/21/20	10/23/20

Quant Method: Y1009.M
Run #: 1009Y219
Instrument: Yoda
Sequence: Y201009
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 10/26/20 5:19:19 PM

EPA 8270D

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Yoda
LCS ID:	201021A-LCS	Time Analyzed:	1347

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1009Y219	10/23/20 1321
201021A-LCS	Lab Control Spike	1009Y220	10/23/20 1347
201021A-LCSD	Lab Control SpikeD	1009Y221	10/23/20 1413
BA20268	ERH1183	1009Y222	10/23/20 1438

Comments: Batch: #87DC5-201021A

Laboratory Control Spike Recoveries
EPA 8270D WATER

APPL ID: **201021W-20539 LCS - 257854**
Batch ID: #87DC5-201021A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	58.1	62.4	93.0	99.8	10-115	7.1	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	234	253	93.6	101	43-140		
SURROGATE: 2-FLUORBIPHENYL (S)	125	111	115	88.8	92.0	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	233	244	93.2	97.6	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	115	122	92.0	97.6	44-120		
SURROGATE: PHENOL-D6 (S)	250	231	243	92.4	97.2	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	129	135	103	108	50-134		

Comments:

Primary	SPK	DUP
Quant Method :	Y1009.M	Y1009.M
Extraction Date :	10/21/20	10/21/20
Analysis Date :	10/23/20	10/23/20
Instrument :	Yoda	Yoda
Run :	1009Y220	1009Y221
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Soil
ID: 1009Y002.D

SDG No:
Date Analyzed: 10/09/20
Instrument: Yoda
Time Analyzed: 10:55

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		4ug/mL 8270 7/22/20	1009Y003.D	10/09/20 11:14
2		5ug/mL 8270 7/22/20	1009Y004.D	10/09/20 11:40
3		10ug/mL 8270 7/22/20	1009Y005.D	10/09/20 12:05
4		20ug/mL 8270 7/22/20	1009Y006.D	10/09/20 12:31
5		40ug/mL 8270 7/22/20	1009Y007.D	10/09/20 12:56
6		50ug/mL 8270 7/22/20	1009Y008.D	10/09/20 13:22
7		60ug/mL 8270 7/22/20	1009Y009.D	10/09/20 13:48
8		80ug/mL 8270 7/22/20	1009Y010.D	10/09/20 14:13
9		100ug/mL 8270 7/22/2	1009Y011.D	10/09/20 14:38
10		SS 50ug/mL 8270 7/22	1009Y012.D	10/09/20 15:04
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	30.7
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.2
127	10 - 80% of mass 198	45.8
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.9
275	10 - 60% of mass 198	27.3
365	1 - 100% of mass 198	2.7
441	0.01 - 24% of mass 442	16.5
442	50 - 500% of mass 197.95	76.1
443	15 - 24% of mass 442	19.4

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93765
Case No: 93765 Date Analyzed: 10/23/20
Matrix: Water Instrument: Yoda
ID: 1009Y217.D Time Analyzed: 12:41

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		50ug/mL 8270 7/22/20	1009Y218.D	10/23/20 12:56
2	Blank	201021A BLK 1/800	1009Y219.D	10/23/20 13:21
3	Lab Control Spike	201021A LCS-1 1/800	1009Y220.D	10/23/20 13:47
4	Lab Control SpikeD	201021A LCSD-1 1/800	1009Y221.D	10/23/20 14:13
5	ERH1183	BA20268W15 1/800	1009Y222.D	10/23/20 14:38
6		50ug/mL 8270 8/13/20	1009Y236.D	10/23/20 20:35
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	33.1
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.4
127	10 - 80% of mass 198	48.0
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.6
275	10 - 60% of mass 198	26.2
365	1 - 100% of mass 198	2.8
441	0.01 - 24% of mass 442	10.6
442	50 - 500% of mass 197.95	76.2
443	15 - 24% of mass 442	19.6

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1009Y218.D Date Analyzed: 10/23/20

Instrument ID: Yoda Time Analyzed: 12:56

GC Column: ID: Heated Purge: (Y/N)

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	157272	5.11	623624	6.53	374698	8.55
	UPPER LIMIT	314544	5.28	1247248	6.70	749396	8.72
	LOWER LIMIT	78636	4.94	311812	6.36	187349	8.38
	SAMPLE NO.						
01	201021A BLK 1/800	148761	5.11	607132	6.52	370629	8.55
02	201021A LCS-1 1/800	144438	5.11	584633	6.53	352993	8.55
03	201021A LCSD-1 1/800	143484	5.11	576643	6.53	351287	8.55
04	BA20268W15 1/800	147428	5.11	593023	6.53	350263	8.54
05	50ug/mL 8270 8/13/20 (	173637	5.11	737280	6.53	458437	8.55
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1009Y218.D Date Analyzed: 10/23/20

Instrument ID: Yoda Time Analyzed: 12:56

GC Column: ID: Heated Purge: (Y/N)

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	731491	10.27	731177	13.36	742323	15.06
	UPPER LIMIT	1462982	10.44	1462354	13.53	1484646	15.23
	LOWER LIMIT	365746	10.10	365589	13.19	371162	14.89
	SAMPLE NO.						
01	201021A BLK 1/800	718091	10.27	743070	13.36	716825	15.06
02	201021A LCS-1 1/800	710154	10.27	702959	13.36	698448	15.06
03	201021A LCSD-1 1/800	691284	10.27	694410	13.36	701317	15.06
04	BA20268W15 1/800	694097	10.27	703427	13.35	681271	15.06
05	50ug/mL 8270 8/13/20 (	893524	10.27	913770	13.37	897270	15.06
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	39-114	108		58-120	111	
201021A-LCS	Lab Control Spike	39-114	92.0		58-120	101	
201021A-LCSD	Lab Control SpikeD	39-114	92.2		58-120	105	
BA20268	ERH1183	39-114	100		58-120	97.9	

Comments: Batch: #SIM53-201021A

8270D-SIM

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Linus
Blank ID:	201021A-BLK	Time Analyzed:	1424

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1016L118	10/23/20 1424
201021A-LCS	Lab Control Spike	1016L119	10/23/20 1446
201021A-LCSD	Lab Control SpikeD	1016L120	10/23/20 1509
BA20268	ERH1183	1016L121	10/23/20 1531

Comments: Batch: #SIM53-201021A

Method Blank
EPA 8270D SIM LIQ-LIQ

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201021W-20539 - 257900**
Batch ID: #SIM53-201021A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
BLANK	SURROGATE: 2-METHYLNAPHT	108	39-114			%	10/21/20	10/23/20
BLANK	SURROGATE: FLUORANTHENE-	111	58-120			%	10/21/20	10/23/20

Quant Method:L1016.M
Run #:1016L118
Instrument:Linus
Sequence:L201016
Initials:MA

GC SC-Blank-REG MDLs-DOD
Printed: 11/09/20 10:54:49 AM

8270D-SIM

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Linus
LCS ID:	201021A-LCS	Time Analyzed:	1446

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1016L118	10/23/20 1424
201021A-LCS	Lab Control Spike	1016L119	10/23/20 1446
201021A-LCSD	Lab Control SpikeD	1016L120	10/23/20 1509
BA20268	ERH1183	1016L121	10/23/20 1531

Comments: Batch: #SIM53-201021A

Laboratory Control Spike Recoveries
EPA 8270D SIM LIQ-LIQ

APPL ID: **201021W-20539 LCS - 257900**
Batch ID: #SIM53-201021A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	5.36	5.37	85.8	85.9	41-115	0.19	20
2-METHYLNAPHTHALENE	6.25	5.38	5.38	86.1	86.1	39-114	0.0	20
NAPHTHALENE	6.25	5.78	5.61	92.5	89.8	43-114	3.0	20
SURROGATE: 2-METHYLNAPHTHALEN	6.25	5.75	5.76	92.0	92.2	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.30	6.56	101	105	58-120		

Comments:

Primary	SPK	DUP
Quant Method :	L1016.M	L1016.M
Extraction Date :	10/21/20	10/21/20
Analysis Date :	10/23/20	10/23/20
Instrument :	Linus	Linus
Run :	1016L119	1016L120
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1016L002.D

SDG No:
Date Analyzed: 10/16/20
Instrument: Linus
Time Analyzed: 10:21

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		0.1 SIM 08/21/20	1016L003.D	10/16/20 10:37
2		0.2 SIM 08/21/20	1016L004.D	10/16/20 10:59
3		0.5 SIM 08/21/20	1016L005.D	10/16/20 11:21
4		1 SIM 08/21/20	1016L006.D	10/16/20 11:43
5		5 SIM 08/21/20	1016L007.D	10/16/20 12:05
6		10 SIM 08/21/20	1016L008.D	10/16/20 12:27
7		50 SIM 08/21/20	1016L009.D	10/16/20 12:50
8		100 SIM 08/21/20	1016L010.D	10/16/20 13:12
9		SS SIM 08/21/20	1016L011.D	10/16/20 13:34
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.1% of mass 198	16.6
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.6
127	10 - 80% of mass 198	38.1
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.7
275	10 - 60% of mass 198	35.8
365	1 - 100% of mass 198	5.1
441	0.01 - 24% of mass 442	14.9
442	50 - 500% of mass 198	293.3
443	15 - 24% of mass 442	19.2

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93765
Case No: 93765 Date Analyzed: 10/23/20
Matrix: Water Instrument: Linus
ID: 1016L116.D Time Analyzed: 10:31

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		5 SIM 08/21/20 (1)	1016L117.D	10/23/20 11:22
2	Blank	201021A BLK 1/800	1016L118.D	10/23/20 14:24
3	Lab Control Spike	201021A LCS-2 1/800	1016L119.D	10/23/20 14:46
4	Lab Control SpikeD	201021A LCSD-2 1/800	1016L120.D	10/23/20 15:09
5	ERH1183	BA20268W15 1/800	1016L121.D	10/23/20 15:31
6		5 SIM 08/21/20 (2)	1016L123.D	10/23/20 16:15
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.1% of mass 198	15.9
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.6
127	10 - 80% of mass 198	38.9
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.7
275	10 - 60% of mass 198	33.1
365	1 - 100% of mass 198	4.9
441	0.01 - 24% of mass 442	15.9
442	50 - 500% of mass 198	241.9
443	15 - 24% of mass 442	19.6

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1016L117.D Date Analyzed: 10/23/20

Instrument ID: Linus Time Analyzed: 11:22

GC Column: ID: Heated Purge: (Y/N)

		Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	46756	4.27	27674	6.28	50490	7.99
	UPPER LIMIT	93512	4.44	55348	6.45	100980	8.16
	LOWER LIMIT	23378	4.10	13837	6.11	25245	7.82
	SAMPLE NO.						
01	201021A BLK 1/800	36479	4.27	18826	6.28	36720	7.99
02	201021A LCS-2 1/800	33312	4.27	17203	6.28	34685	7.99
03	201021A LCSD-2 1/800	35659	4.27	20111	6.28	36788	7.99
04	BA20268W15 1/800	35096	4.27	17523	6.28	40779	7.99
05	5 SIM 08/21/20 (2)	45063	4.27	25522	6.28	56001	7.99
06							
07							
08							
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22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1016L117.D Date Analyzed: 10/23/20

Instrument ID: Linus Time Analyzed: 11:22

GC Column: ID: Heated Purge: (Y/N)

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	70872	11.13	76980	13.56		
	UPPER LIMIT	141744	11.30	153960	13.73		
	LOWER LIMIT	35436	10.96	38490	13.39		
	SAMPLE NO.						
01	201021A BLK 1/800	52875	11.12	57632	13.56		
02	201021A LCS-2 1/800	47498	11.13	51583	13.56		
03	201021A LCSD-2 1/800	55255	11.13	58690	13.56		
04	BA20268W15 1/800	49650	11.13	56304	13.56		
05	5 SIM 08/21/20 (2)	72836	11.13	85621	13.56		
06							
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22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA 8270D

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/20/20
Matrix:	WATER	Instrument:	Yoda
Blank ID:	201019A-BLK	Time Analyzed:	1140

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019A-BLK	Blank	0501Y106	10/20/20 1140
201019A-LCS	Lab Control Spike	0501Y114	10/20/20 1517
BA20268	ERH1183	0501Y126	10/20/20 2002

Comments: Batch: #87DME-201019A

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **201019W-20054 - 257636**
Batch ID: #87DME-201019A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	10/19/20	10/20/20

Quant Method: YMEE0501.M
Run #: 0501Y106
Instrument: Yoda
Sequence: Y200501M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 10/21/20 4:15:13 PM

EPA 8270D

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/20/20
Matrix:	WATER	Instrument:	Yoda
LCS ID:	201019A-LCS	Time Analyzed:	1517

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019A-BLK	Blank	0501Y106	10/20/20 1140
201019A-LCS	Lab Control Spike	0501Y114	10/20/20 1517
BA20268	ERH1183	0501Y126	10/20/20 2002

Comments: Batch: #87DME-201019A

Laboratory Control Spike Recovery
EPA 8270D MODIFIED WATER

APPL ID: **201019W-20054 LCS - 257636**
Batch ID: #87DME-201019A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	63.8	79.8	30-130

Comments:

Primary	SPK
Quant Method :	YMEE0501.M
Extraction Date :	10/19/20
Analysis Date :	10/20/20
Instrument :	Yoda
Run :	0501Y114
Initials :	MA

Printed: 10/21/20 4:15:03 PM
APPL Standard LCS

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Soil
ID: 0501Y002.D

SDG No:
Date Analyzed: 05/01/20
Instrument: Yoda
Time Analyzed: 9:23

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		50ug/ml MEE 05/01/20	0501Y003.D	05/01/20 9:39
2		100ug/ml MEE 05/01/2	0501Y004.D	05/01/20 10:03
3		200ug/ml MEE 05/01/2	0501Y006.D	05/01/20 10:51
4		400ug/ml MEE 05/01/2	0501Y007.D	05/01/20 11:24
5		500ug/ml MEE 05/01/2	0501Y008.D	05/01/20 11:48
6		600ug/ml MEE 05/01/2	0501Y009.D	05/01/20 12:13
7		800ug/ml MEE 05/01/2	0501Y010.D	05/01/20 12:37
8		1000ug/ml MEE 05/01/	0501Y011.D	05/01/20 13:01
9		SSug/ml MEE 05/01/20	0501Y013.D	05/01/20 13:50
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	10 - 80% of mass 198	40.1
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.5
127	10 - 80% of mass 198	52.5
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.8
275	10 - 60% of mass 198	26.7
365	1 - 100% of mass 198	2.8
441	0.01 - 24% of mass 442	3.9
442	50 - 500% of mass 198	71.6
443	15 - 24% of mass 442	19.8

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93765
Case No: 93765 Date Analyzed: 10/20/20
Matrix: Water Instrument: Yoda
ID: 0501Y104.D Time Analyzed: 10:15

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		500ug/ml MEE 05/01/2	0501Y105.D	10/20/20 10:57
2	Blank	201019A BLK 2/500	0501Y106.D	10/20/20 11:40
3	Lab Control Spike	201019A LCS-1 2/500	0501Y114.D	10/20/20 15:17
4	ERH1183	BA20268W12 2/500	0501Y126.D	10/20/20 20:02
5		500ug/ml MEE 05/01/2	0501Y127.D	10/20/20 20:26
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	31.4
68	0 - 2.04% of mass 69	0.0
70	0 - 2.04% of mass 69	0.4
127	10 - 80% of mass 198	46.4
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.7
275	10 - 60% of mass 198	27.9
365	1 - 100% of mass 198	2.8
441	0.01 - 24% of mass 442	12.2
442	50 - 500% of mass 197.95	83.9
443	15 - 24% of mass 442	19.3

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 0501Y105.D Date Analyzed: 10/20/20

Instrument ID: Yoda Time Analyzed: 10:57

GC Column: ID: Heated Purge: (Y/N)

	1,4-dichlorobenzene-D4(IS)							
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
	12 HOUR STD	176279	5.38					
	UPPER LIMIT	352558	5.55					
	LOWER LIMIT	88140	5.21					
	SAMPLE NO.							
01	201019A BLK 2/500	114420	5.36					
02	201019A LCS-1 2/500	181279	5.36					
03	BA20268W12 2/500	105217	5.35					
04	500ug/ml MEE 05/01/20	121864	5.37					
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/19/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201019AZ-LCS	Lab Control Spike	81-118	104		85-114	112	
201019AZ-LCSD	Lab Control SpikeD	81-118	104		85-114	112	
201019AZ-BLK	Blank	81-118	110		85-114	109	
BA20267	ERH1182	81-118	117		85-114	110	
BA20268	ERH1183	81-118	121	#	85-114	110	

Comments: Batch: #86BTO-201019AZ

= Recovery outside of Control Limits on Sample.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/19/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201019AZ-LCS	Lab Control Spike	80-119	106		89-112	112	
201019AZ-LCSD	Lab Control SpikeD	80-119	106		89-112	112	
201019AZ-BLK	Blank	80-119	109		89-112	108	
BA20267	ERH1182	80-119	114		89-112	108	
BA20268	ERH1183	80-119	115		89-112	108	

Comments: Batch: #86BTO-201019AZ

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/19/20
Matrix:	WATER	Instrument:	ZEUS
Blank ID:	201019AZ-BLK	Time Analyzed:	1825

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019AZ-LCS	Lab Control Spike	1019Z25	10/19/20 1629
201019AZ-LCSD	Lab Control SpikeD	1019Z26	10/19/20 1652
201019AZ-BLK	Blank	1019Z30	10/19/20 1825
BA20267	ERH1182	1019Z38	10/19/20 2130
BA20268	ERH1183	1019Z39	10/19/20 2154

Comments: Batch: #86BTO-201019AZ

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: **201019W-20267 - 257672**
Batch ID: #86BTO-201019AZ

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/19/20	10/19/20
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/19/20	10/19/20
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/19/20	10/19/20
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/19/20	10/19/20
BLANK	SURROGATE: 1,2-DICHLOROET	110	81-118			%	10/19/20	10/19/20
BLANK	SURROGATE: 4-BROMOFLUORO	109	85-114			%	10/19/20	10/19/20
BLANK	SURROGATE: DIBROMOFLUOR	109	80-119			%	10/19/20	10/19/20
BLANK	SURROGATE: TOLUENE-D8 (S)	108	89-112			%	10/19/20	10/19/20

Quant Method: Z1019W.M
Run #: 1019Z30
Instrument: ZEUS
Sequence: 201019
Initials: DG

GC SC-Blank-REG MDLs-DOD
Printed: 11/09/20 1:23:09 PM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/19/20
Matrix:	WATER	Instrument:	ZEUS
LCS ID:	201019AZ-LCS	Time Analyzed:	1629

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019AZ-LCS	Lab Control Spike	1019Z25	10/19/20 1629
201019AZ-LCSD	Lab Control SpikeD	1019Z26	10/19/20 1652
201019AZ-BLK	Blank	1019Z30	10/19/20 1825
BA20267	ERH1182	1019Z38	10/19/20 2130
BA20268	ERH1183	1019Z39	10/19/20 2154

Comments: Batch: #86BTO-201019AZ

Laboratory Control Spike Recoveries
EPA 8260B BTEX WATER

APPL ID: **201019W-20267 LCS - 257672**
Batch ID: #86BTO-201019AZ

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	10.4	10.6	104	106	79-120	1.9	20
ETHYLBENZENE	10.00	10.6	10.9	106	109	79-121	2.8	20
TOLUENE	10.00	10.3	10.5	103	105	80-121	1.9	20
XYLENES (TOTAL)	30.0	33.0	33.9	110	113	79-121	2.7	20
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	25.9	25.9	104	104	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	27.9	27.9	112	112	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	26.6	26.5	106	106	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	28.0	27.9	112	112	89-112		

Comments:

Primary	SPK	DUP
Quant Method :	Z1019W.M	Z1019W.M
Extraction Date :	10/19/20	10/19/20
Analysis Date :	10/19/20	10/19/20
Instrument :	ZEUS	ZEUS
Run :	1019Z25	1019Z26
Initials :	DG	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1019Z12.D

SDG No:
Date Analyzed: 10/19/20
Instrument: ZEUS
Time Analyzed: 11:23

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		0.3ug/L VOC STD 10/1	1019Z14.D	10/19/20 12:15
2		0.5ug/L VOC STD 10/1	1019Z15.D	10/19/20 12:38
3		1ug/L VOC STD 10/19/	1019Z16.D	10/19/20 13:01
4		2ug/L VOC STD 10/19/	1019Z17.D	10/19/20 13:24
5		5ug/L VOC STD 10/19/	1019Z18.D	10/19/20 13:47
6		10ug/L VOC STD 10/19	1019Z19.D	10/19/20 14:10
7		20ug/L VOC STD 10/19	1019Z20.D	10/19/20 14:33
8		40ug/L VOC STD 10/19	1019Z21.D	10/19/20 14:57
9		100ug/L VOC STD 10/1	1019Z22.D	10/19/20 15:20
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15.0 - 40.0% of mass 95	16.2
75	30.0 - 60.0% of mas 95	40.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.5
174	50.0 - 200.0% of mass 95	100.7
175	5.0 - 9.0% of mass 174	7.7
176	95.0 - 101.0% of mass 174	96.2
177	5.0 - 9.0% of mass 176	8.8

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93765
Case No: 93765 Date Analyzed: 10/19/20
Matrix: Water Instrument: ZEUS
ID: 1019Z23.D Time Analyzed: 15:43

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		(SS) 10ug/L VOC STD	1019Z24.D	10/19/20 16:06
2	Lab Control Spike	201019A LCS 10ug/L	1019Z25.D	10/19/20 16:29
3	Lab Control SpikeD	201019A LCSD 10ug/L	1019Z26.D	10/19/20 16:52
4	Blank	201019A BLK	1019Z30.D	10/19/20 18:25
5	ERH1182	BA20267W01	1019Z38.D	10/19/20 21:30
6	ERH1183	BA20268W01	1019Z39.D	10/19/20 21:54
7		Ending CCV 10ug/L 10	1019Z55.D	10/20/20 4:05
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	18.9
75	30 - 60% of mass 95	43.1
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.8
173	0 - 2.05% of mass 174	0.5
174	50 - 200% of mass 95	90.1
175	5 - 9% of mass 174	7.0
176	95 - 101% of mass 174	97.1
177	5 - 9% of mass 176	6.7

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1019Z19.D Date Analyzed: 10/19/20

Instrument ID: ZEUS Time Analyzed: 14:10

GC Column: ID: Heated Purge: (Y/N)

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1704620	5.08	1224810	7.73	696598	9.95
	UPPER LIMIT	3409240	5.25	2449620	7.90	1393196	10.12
	LOWER LIMIT	852310	4.91	612405	7.56	348299	9.78
	SAMPLE NO.						
01	(SS) 10ug/L VOC STD 1	2102420	5.08	1489170	7.74	837513	9.95
02	201019A LCS 10ug/L	2044100	5.08	1438770	7.73	814239	9.95
03	201019A LCSD 10ug/L	2011620	5.08	1419510	7.73	811580	9.95
04	201019A BLK	1868770	5.08	1341530	7.73	759355	9.95
05	BA20267W01	1607900	5.08	1167620	7.73	655254	9.95
06	BA20268W01	1518010	5.08	1095580	7.73	629543	9.95
07	Ending CCV 10ug/L 10/1	1316090	5.08	938910	7.73	539288	9.95
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/19/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
201019AZ-LCS	Lab Control Spike	85-114	109				
201019AZ-LCSD	Lab Control SpikeD	85-114	110				
201019AZ-BLK	Blank	85-114	109				
BA20267	ERH1182	85-114	110				
BA20268	ERH1183	85-114	110				

Comments: Batch: #GRO86-201019AZ

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/19/20
Matrix:	WATER	Instrument:	ZEUS
Blank ID:	201019AZ-BLK	Time Analyzed:	1825

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019AZ-LCS	Lab Control Spike	1019Z28	10/19/20 1739
201019AZ-LCSD	Lab Control SpikeD	1019Z29	10/19/20 1802
201019AZ-BLK	Blank	1019Z30	10/19/20 1825
BA20267	ERH1182	1019Z38	10/19/20 2130
BA20268	ERH1183	1019Z39	10/19/20 2154

Comments: Batch: #GRO86-201019AZ

Method Blank
EPA 8260B GRO WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201019W-20267 - 257680**
Batch ID: #GRO86-201019AZ

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/19/20	10/19/20
BLANK	SURROGATE: 4-BROMOFLUORO	109	85-114			%	10/19/20	10/19/20

Quant Method:Z1019SUR.M
Run #:1019Z30
Instrument:ZEUS
Sequence:201019
Initials:DG

GC SC-Blank-REG MDLs-DOD
Printed: 11/09/20 1:56:02 PM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/19/20
Matrix:	WATER	Instrument:	ZEUS
LCS ID:	201019AZ-LCS	Time Analyzed:	1739

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019AZ-LCS	Lab Control Spike	1019Z28	10/19/20 1739
201019AZ-LCSD	Lab Control SpikeD	1019Z29	10/19/20 1802
201019AZ-BLK	Blank	1019Z30	10/19/20 1825
BA20267	ERH1182	1019Z38	10/19/20 2130
BA20268	ERH1183	1019Z39	10/19/20 2154

Comments: Batch: #GRO86-201019AZ

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: **201019W-20267 LCS - 257680**
Batch ID: #GRO86-201019AZ

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	304	323	101	108	78-122	6.1	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	27.3	27.5	109	110	85-114		

Comments:

Primary	SPK	DUP
Quant Method :	Z1019SUR.M	Z1019SUR.M
Extraction Date :	10/19/20	10/19/20
Analysis Date :	10/19/20	10/19/20
Instrument :	ZEUS	ZEUS
Run :	1019Z28	1019Z29
Initials :	DG	

RSK 175

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/21/20

Matrix: WATER Instrument: Rocky

Blank ID: 201021A-BLK Time Analyzed: 1156

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-LCS	Lab Control Spike	1021R04	10/21/20 1146
201021A-LCSD	Lab Control SpikeD	1021R05	10/21/20 1151
201021A-BLK	Blank	1021R06	10/21/20 1156
BA20267	ERH1182	1021R18	10/21/20 1236
BA20268	ERH1183	1021R19	10/21/20 1240

Comments: Batch: #RSKME-201021A

Method Blank
METHANE

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201021W-20267 - 257679**
Batch ID: #RSKME-201021A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/21/20	10/21/20

Quant Method: RSK0914A.M
Run #: 1021R06
Instrument: Rocky
Sequence: 200914
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 10/21/20 3:41:13 PM

RSK 175

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/21/20
Matrix:	WATER	Instrument:	Rocky
LCS ID:	201021A-LCS	Time Analyzed:	1146

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-LCS	Lab Control Spike	1021R04	10/21/20 1146
201021A-LCSD	Lab Control SpikeD	1021R05	10/21/20 1151
201021A-BLK	Blank	1021R06	10/21/20 1156
BA20267	ERH1182	1021R18	10/21/20 1236
BA20268	ERH1183	1021R19	10/21/20 1240

Comments: Batch: #RSKME-201021A

Laboratory Control Spike Recoveries
METHANE

APPL ID: **201021W-20267 LCS - 257679**
Batch ID: #RSKME-201021A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	65.1	63.1	78.1	75.7	72-125	3.1	30

Comments:

Primary	SPK	DUP
Quant Method :	RSK0914A.M	RSK0914A.M
Extraction Date :	10/21/20	10/21/20
Analysis Date :	10/21/20	10/21/20
Instrument :	Rocky	Rocky
Run :	1021R04	1021R05
Initials :	GAG	

EPA 300.0

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/16/20
Matrix:	WATER	Instrument:	Charlie
Blank ID:	201016A1-BLK	Time Analyzed:	1512

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201016A1-LCS	Lab Control Spike	1	10/16/20 1458
201016A1-LCSD	Lab Control SpikeD	15	10/16/20 1823
201016A1-BLK	Blank	2	10/16/20 1512
BA20268	ERH1183	3	10/16/20 1527

Comments: Batch: #300W-201016A1

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
EPA 300.0	CHLORIDE	0.24 J	1.0	0.20	0.08	mg/L	10/16/20	10/16/20	#300W-201016A1-BA20268
EPA 300.0	NITRATE	0.19 J	0.5	0.18	0.04	mg/L	10/16/20	10/16/20	#300W-201016A1-BA20268
EPA 300.0	SULFATE	0.20 U	1.0	0.20	0.09	mg/L	10/16/20	10/16/20	#300W-201016A1-BA20268

J = Estimated value.

Wetlab SC-Blank-REG MDLs
Printed: 10/26/20 3:30:53 PM

EPA 300.0

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/16/20
Matrix:	WATER	Instrument:	Charlie
LCS ID:	201016A1-LCS	Time Analyzed:	1458

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201016A1-LCS	Lab Control Spike	1	10/16/20 1458
201016A1-LCSD	Lab Control SpikeD	15	10/16/20 1823
201016A1-BLK	Blank	2	10/16/20 1512
BA20268	ERH1183	3	10/16/20 1527

Comments: Batch: #300W-201016A1

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	CHLORIDE	25.0	24.4	24.4	97.6	97.6	0.0	20	90-110	10/16/20	10/16/20	10/16/20	10/16/20	#300W-201016A1-BA2026
EPA 300.0	NITRATE	22.1	21.9	22.0	99.1	99.5	0.46	20	90-110	10/16/20	10/16/20	10/16/20	10/16/20	#300W-201016A1-BA2026
EPA 300.0	SULFATE	25.0	24.1	24.0	96.4	96.0	0.42	20	90-110	10/16/20	10/16/20	10/16/20	10/16/20	#300W-201016A1-BA2026

Comments:

EPA 353.2

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/16/20
Matrix:	WATER	Instrument:	EVE
Blank ID:	201016A1-BLK	Time Analyzed:	1623

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201016A1-BLK	Blank	12	10/16/20 1623
201016A1-LCS	Lab Control Spike	13	10/16/20 1625
201016A1-LCSD	Lab Control SpikeD	14	10/16/20 1627
BA20268	ERH1183	28	10/16/20 1702

Comments: Batch: #353TO-201016A1

SM 2320B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/21/20
Matrix:	WATER	Instrument:	Tiamo
Blank ID:	201021A-BLK	Time Analyzed:	1636

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1	10/21/20 1636
BA20268	ERH1183	16	10/21/20 1901
201021A-LCSD	Lab Control SpikeD	2	10/21/20 1647
201021A-LCS	Lab Control Spike	9	10/21/20 1742

Comments: Batch: #232W-201021A

SM3500FeB

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Manual Spec
Blank ID:	A201023-BLK	Time Analyzed:	1842

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A201023-BLK	Blank	28	10/23/20 1842
A201023-LCS	Lab Control Spike	30	10/23/20 1843
A201023-LCSD	Lab Control SpikeD	32	10/23/20 1844
BA20268	ERH1183	33	10/23/20 1845

Comments: Batch: #35FE-A201023

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93765

Case No: 93765 Date Analyzed: 10/20/20

Matrix: WATER Instrument: TICTOC

Blank ID: 201019A-BLK Time Analyzed: 0759

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019A-BLK	Blank	28	10/20/20 0759
201019A-LCS	Lab Control Spike	29	10/20/20 0838
201019A-LCSD	Lab Control SpikeD	30	10/20/20 0919
BA20268	ERH1183	38	10/20/20 1425

Comments: Batch: #TOCW5-201019A

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	BICARBONATE AS	1.2 J	2.0	1.70	0.85	mg/L	10/21/20	10/21/20	#232W-201021A-BA20054
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	10/21/20	10/21/20	#232W-201021A-BA20054
SM 2320B	TOTAL ALKALINITY	1.2 J	2.0	1.70	0.85	mg/L	10/21/20	10/21/20	#232W-201021A-BA20054
EPA 353.2	NITRATE-NITRITE A	0.090 U	0.10	0.090	0.028	mg/L	10/16/20	10/16/20	#353TO-201016A1-BA20184
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	10/23/20	10/23/20	#35FE-A201023-BA20544
SW846 90	TOTAL ORGANIC C	0.16 J	0.93	0.350	0.130	mg/L	10/20/20	10/20/20	#TOCW5-201019A-BA20054

J = Estimated value.

Wetlab SC-Blank-REG MDLs
Printed: 10/26/20 11:41:41 AM

EPA 353.2

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/16/20
Matrix:	WATER	Instrument:	EVE
LCS ID:	201016A1-LCS	Time Analyzed:	1625

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201016A1-BLK	Blank	12	10/16/20 1623
201016A1-LCS	Lab Control Spike	13	10/16/20 1625
201016A1-LCSD	Lab Control SpikeD	14	10/16/20 1627
BA20268	ERH1183	28	10/16/20 1702

Comments: Batch: #353TO-201016A1

SM 2320B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/21/20
Matrix:	WATER	Instrument:	Tiamo
LCS ID:	201021A-LCS	Time Analyzed:	1742

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1	10/21/20 1636
BA20268	ERH1183	16	10/21/20 1901
201021A-LCSD	Lab Control SpikeD	2	10/21/20 1647
201021A-LCS	Lab Control Spike	9	10/21/20 1742

Comments: Batch: #232W-201021A

SM3500FeB

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Manual Spec
LCS ID:	A201023-LCS	Time Analyzed:	1843

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A201023-BLK	Blank	28	10/23/20 1842
A201023-LCS	Lab Control Spike	30	10/23/20 1843
A201023-LCSD	Lab Control SpikeD	32	10/23/20 1844
BA20268	ERH1183	33	10/23/20 1845

Comments: Batch: #35FE-A201023

SW846 9060A

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93765
Case No:	93765	Date Analyzed:	10/20/20
Matrix:	WATER	Instrument:	TICTOC
LCS ID:	201019A-LCS	Time Analyzed:	0838

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201019A-BLK	Blank	28	10/20/20 0759
201019A-LCS	Lab Control Spike	29	10/20/20 0838
201019A-LCSD	Lab Control SpikeD	30	10/20/20 0919
BA20268	ERH1183	38	10/20/20 1425

Comments: Batch: #TOCW5-201019A

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 353.2	NITRATE-NITRITE AS N	3.00	3.03	2.99	101	99.7	1.3	20	90-110	10/16/20	10/16/20	10/16/20	10/16/20	#353TO-201016A1-BA201
SM 2320B	BICARBONATE AS CACO3	250	251	226	100	90.4	10.5	20	90-110	10/21/20	10/21/20	10/21/20	10/21/20	#232W-201021A-BA20054
SM 2320B	TOTAL ALKALINITY AS CA	250	269	251	108	100	6.9	20	90-110	10/21/20	10/21/20	10/21/20	10/21/20	#232W-201021A-BA20054
SM3500Fe	FERROUS IRON	3.00	3.01	3.07	100	102	2.0	20	80-120	10/23/20	10/23/20	10/23/20	10/23/20	#35FE-A201023-BA20544
SW846 90	TOTAL ORGANIC CARBO	5.00	4.89	4.86	97.8	97.2	0.62	20	80-120	10/20/20	10/20/20	10/20/20	10/20/20	#TOCW5-201019A-BA200

Comments:

ORGANICS

Calibration Data

TPH Extractables
DOC0905

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Initial Cal. Date: 09/05/20
Instrument: Apollo

Initials: SS/TW

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
			905007.D	905008.D	905009.D	905010.D	905011.D	905012.D									
1	HATML	Diesel (C10-C24)	3520375	2214378	2281032	2080486	2123388	2190073					2401622	23	HATM	0.999	
2	HBTM	Motor Oil (C24-C40)		1596138	1576848	1430288	1467043	1498633					1513790	4.7	HBTM		
3	SA	Ortho-Terphenyl(S)		2811060	2679862	2349319	2368660	2417877					2525355	8.2	SA		
4	SA	Octacosane(S)		2182984	2114335	1968540	2003128	2024026					2058603	4.3	SA		
5																	
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1.148404

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905007.D Vial: 7
Acq On : 9-5-20 17:04:35 Operator:
Sample : Diesel Motor Oil-1 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

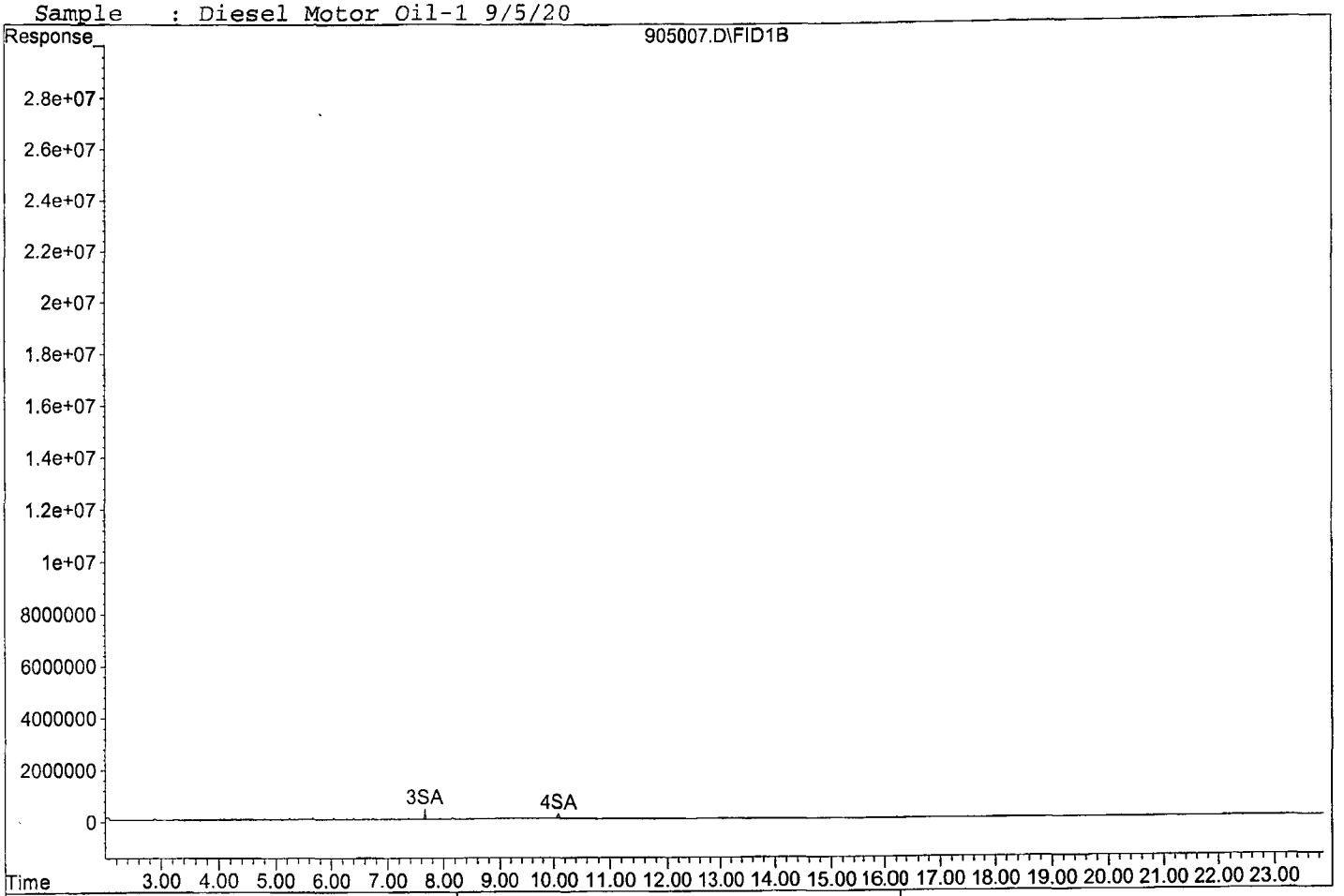
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

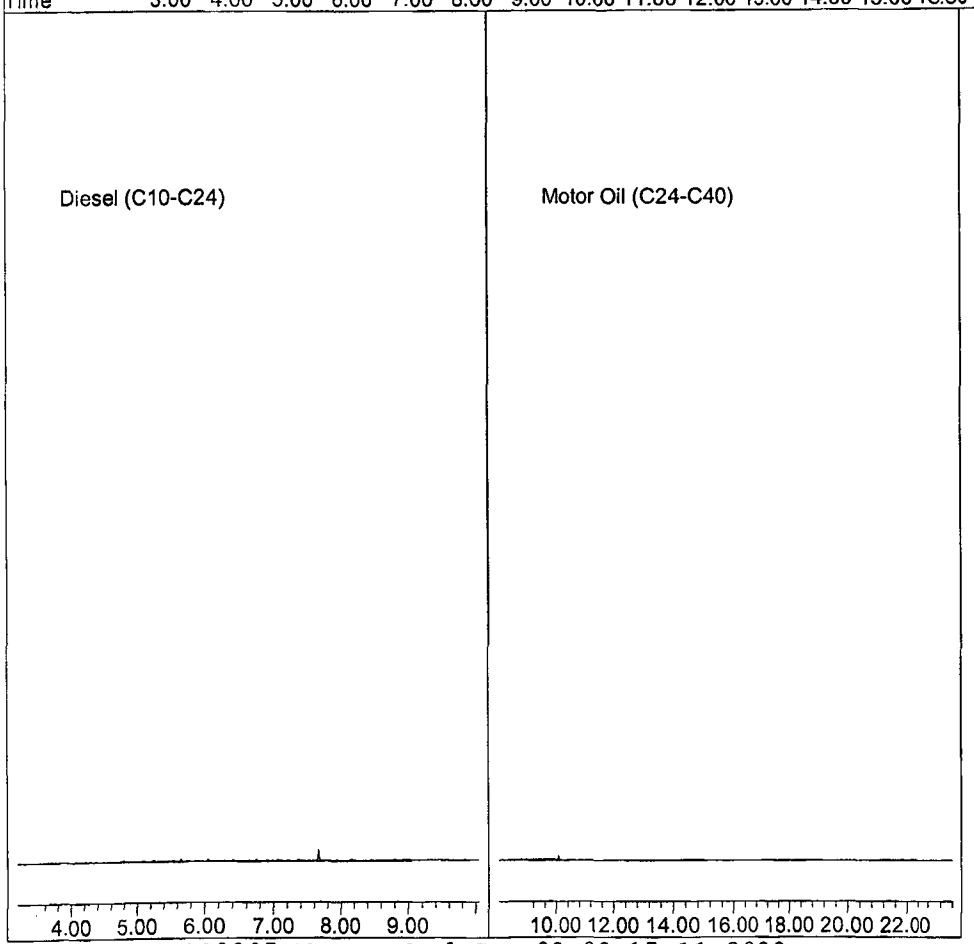
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	4755108	0.463 ppb
Surrogate Spike 30.000	Recovery =		1.54%
4) SA Octacosane(S)	10.09	3753150	0.722 ppb
Surrogate Spike 30.000	Recovery =		2.41%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	70407491	17.223 ppb
2) HBTM Motor Oil (C24-C40)	15.82	77569840	21.354 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905007.D
Sample : Diesel Motor Oil-1 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905008.D Vial: 8
Acq On : 9-5-20 17:32:40 Operator:
Sample : Diesel Motor Oil-2 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

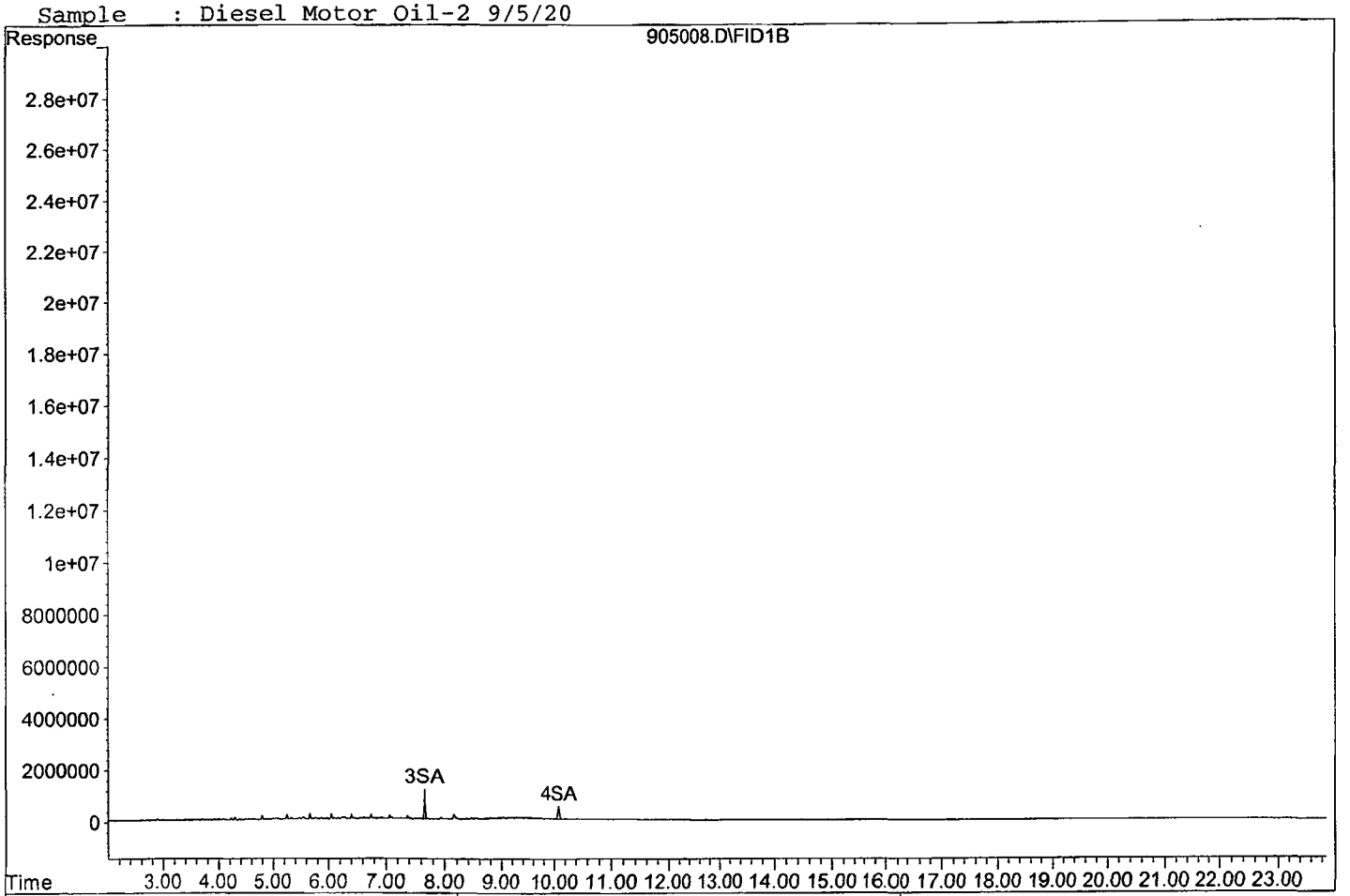
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

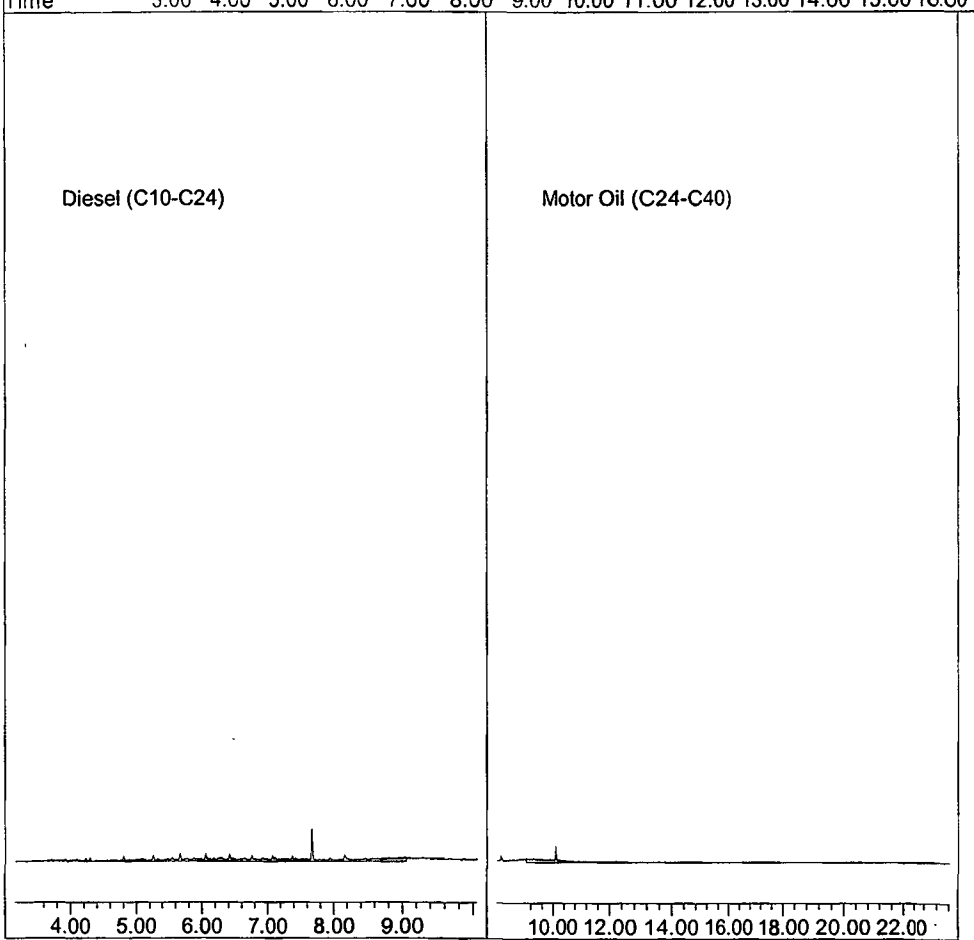
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	14055300	2.417 ppb
Surrogate Spike 30.000	Recovery =		8.06%
4) SA Octacosane(S)	10.08	10914920	2.508 ppb
Surrogate Spike 30.000	Recovery =		8.36%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	221437795	52.238 ppb
2) HBTM Motor Oil (C24-C40)	15.82	159613804	49.156 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905008.D
Sample : Diesel Motor Oil-2 9/5/20





905008.D DOC0905.M Wed Sep 09 09:15:14 2020

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905009.D Vial: 9
Acq On : 9-5-20 18:00:45 Operator:
Sample : Diesel Motor Oil-3 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

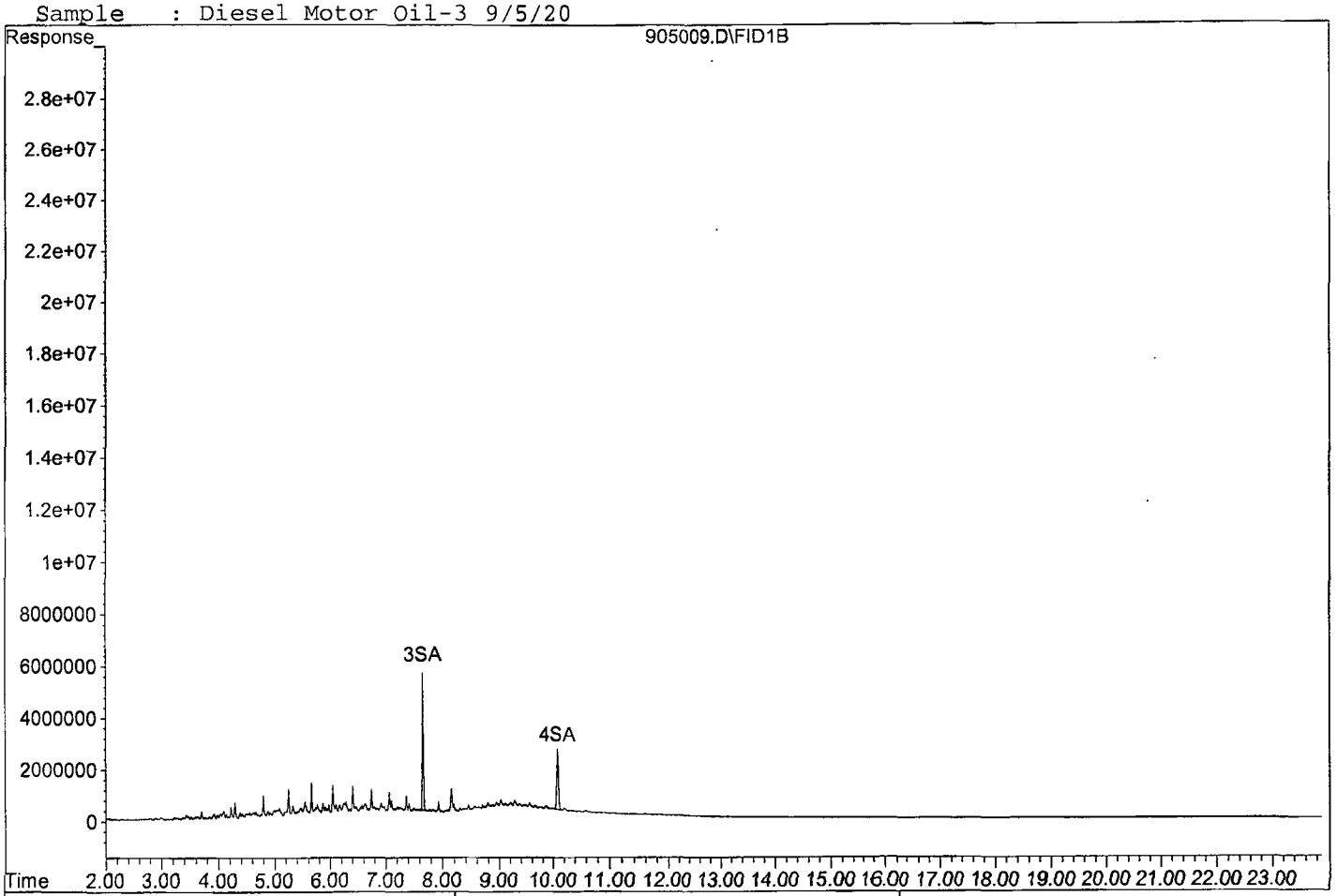
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

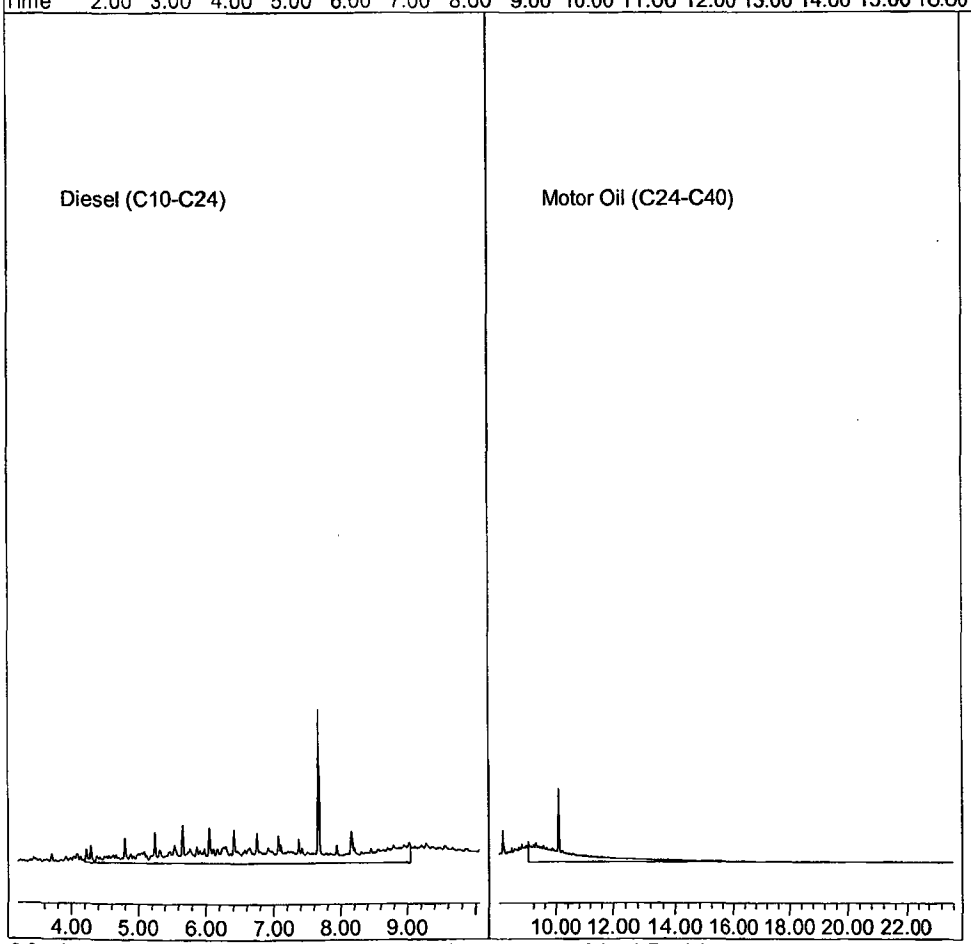
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	66996540	13.544 ppb
Surrogate Spike 30.000	Recovery =		45.15%
4) SA Octacosane(S)	10.09	52858376	12.967 ppb
Surrogate Spike 30.000	Recovery =		43.22%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1140515960	265.317 ppb
2) HBTM Motor Oil (C24-C40)	15.82	788424096	262.237 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905009.D
Sample : Diesel Motor Oil-3 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905010.D Vial: 10
Acq On : 9-5-20 18:28:54 Operator:
Sample : Diesel Motor Oil-4 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

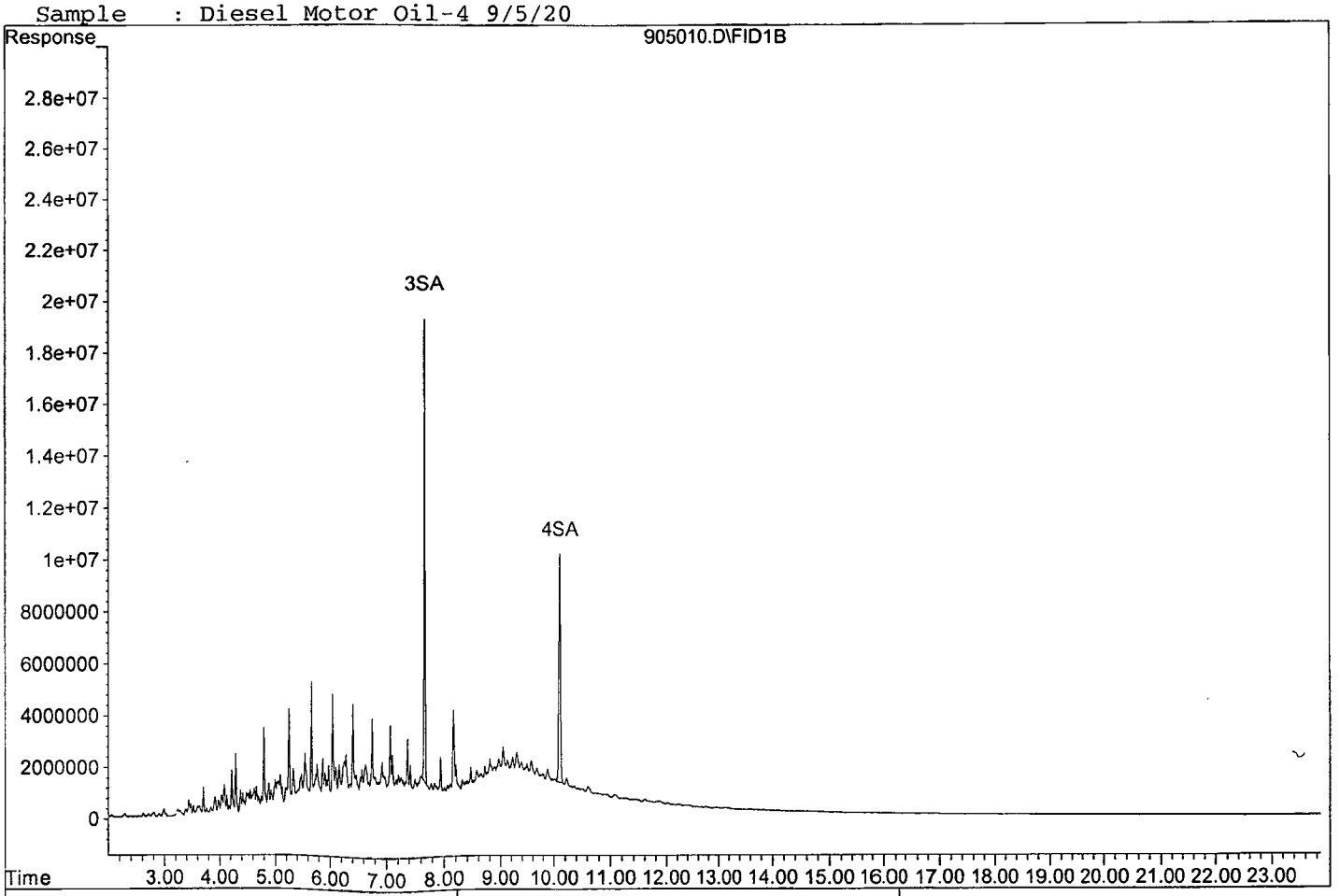
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

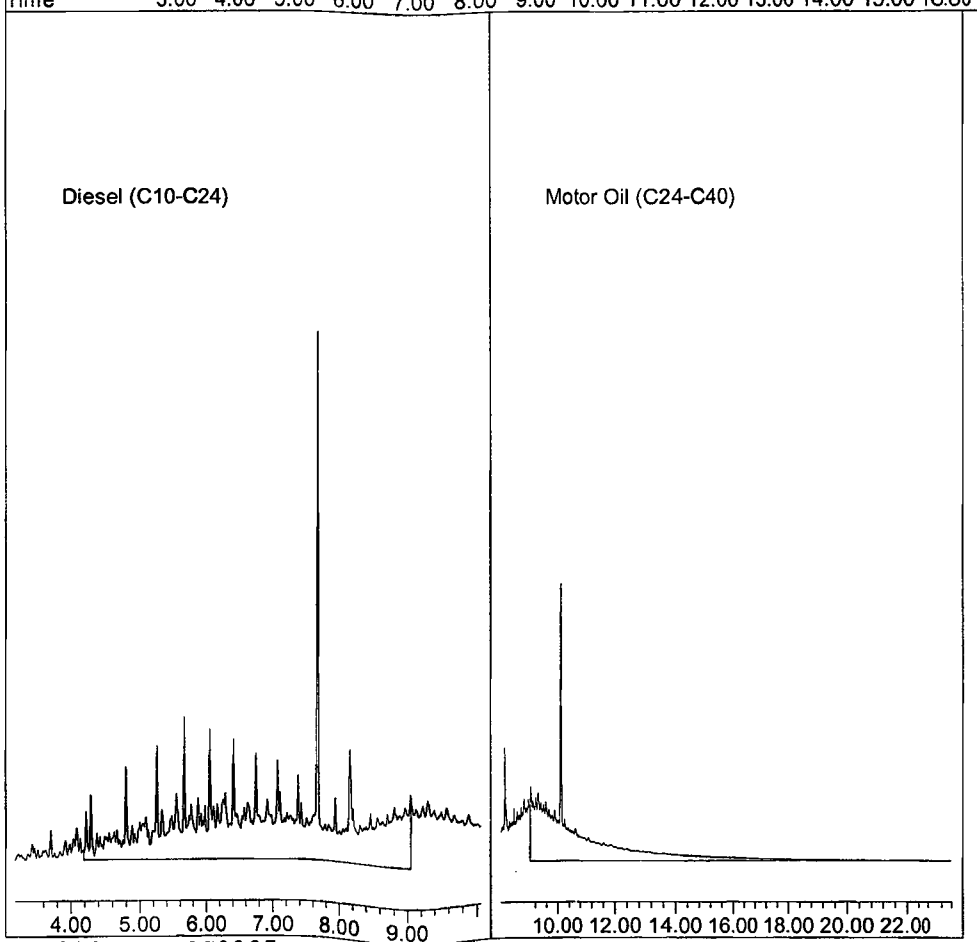
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	234931900	48.840 ppb
Surrogate Spike 30.000	Recovery =		162.80%
4) SA Octacosane(S)	10.11	196853973	48.872 ppb
Surrogate Spike 30.000	Recovery =		162.91%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	4160972977	965.579 ppb
2) HBTM Motor Oil (C24-C40)	15.82	2860576922	964.412 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905010.D
Sample : Diesel Motor Oil-4 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905011.D Vial: 11
Acq On : 9-5-20 18:56:54 Operator:
Sample : Diesel Motor Oil-5 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

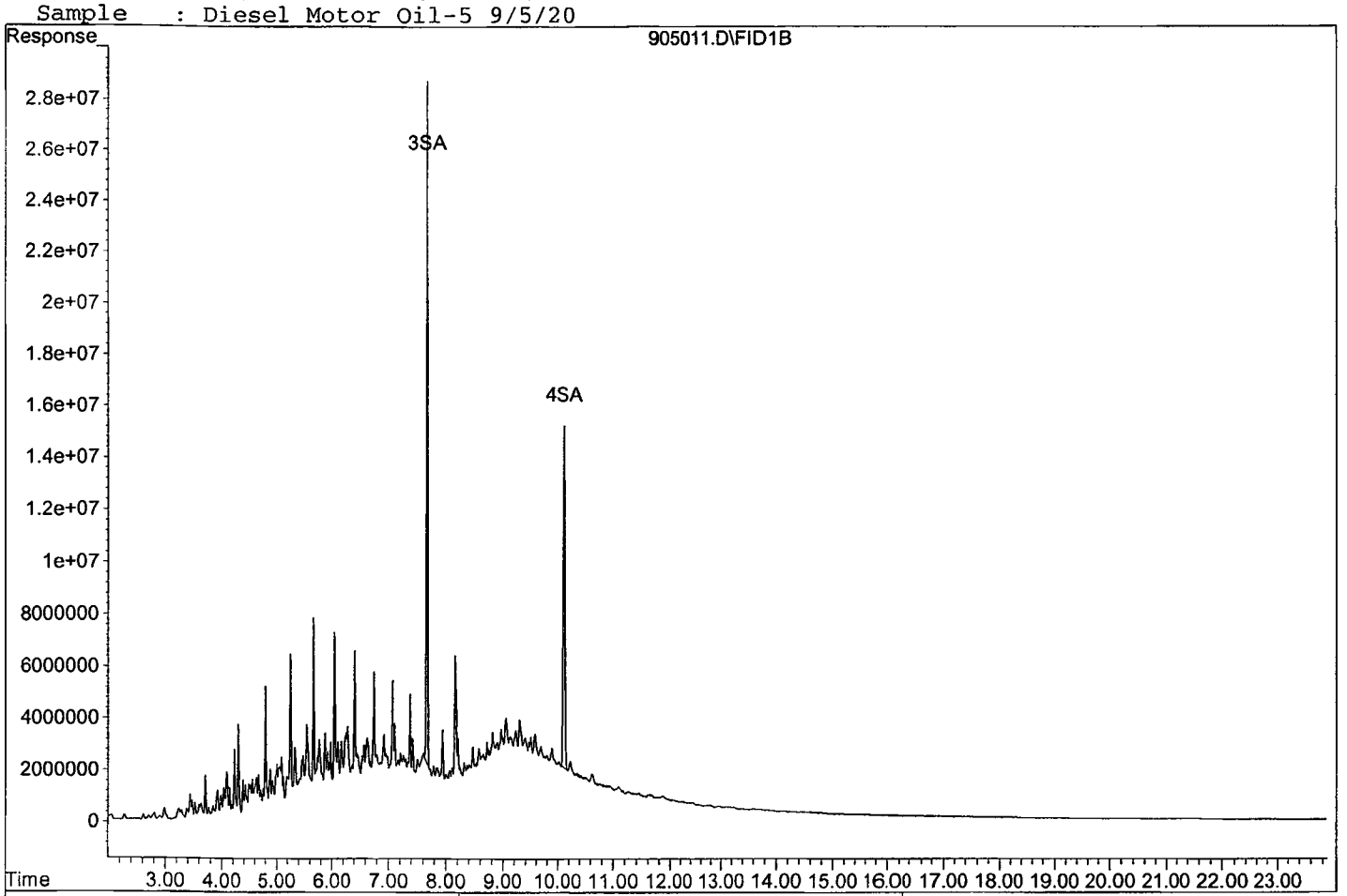
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

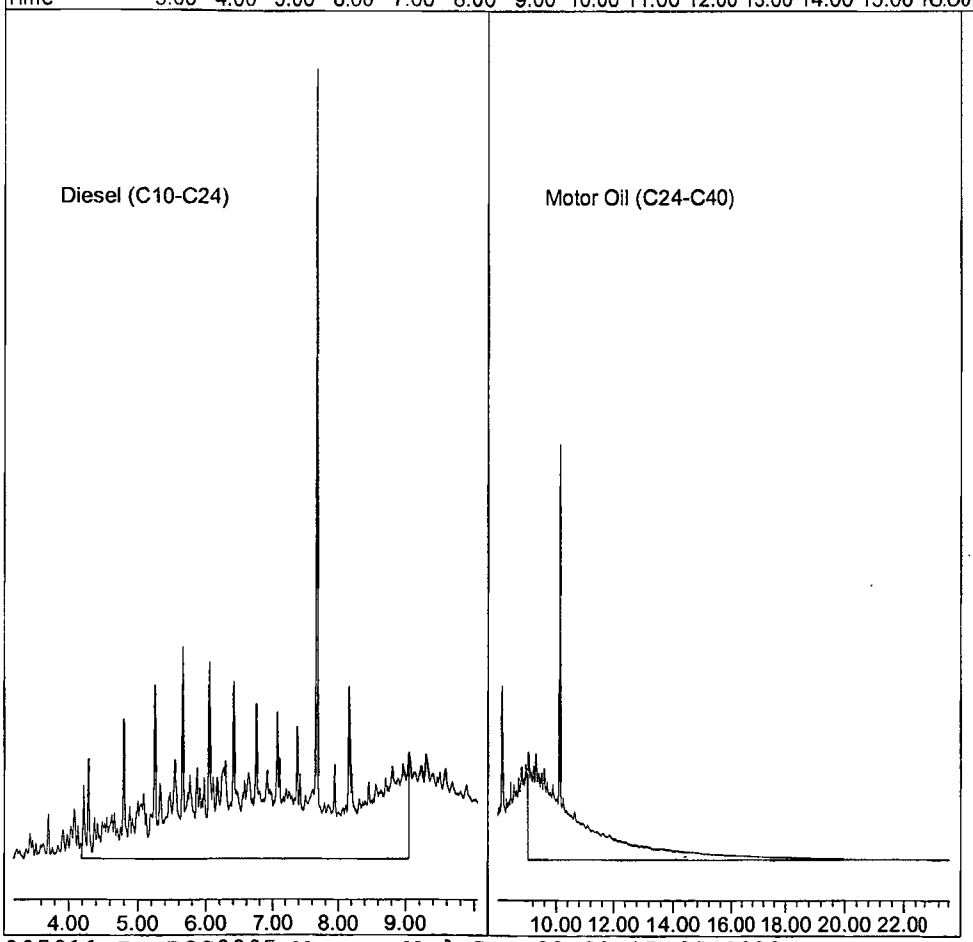
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	355298964	74.138 ppb
Surrogate Spike 30.000		Recovery =	247.13%
4) SA Octacosane(S)	10.12	300469164	74.708 ppb
Surrogate Spike 30.000		Recovery =	249.03%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	6370162550	1477.758 ppb
2) HBTM Motor Oil (C24-C40)	15.82	4401128474	1486.448 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905011.D
Sample : Diesel Motor Oil-5 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905012.D Vial: 12
Acq On : 9-5-20 19:24:55 Operator:
Sample : Diesel Motor Oil-6 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

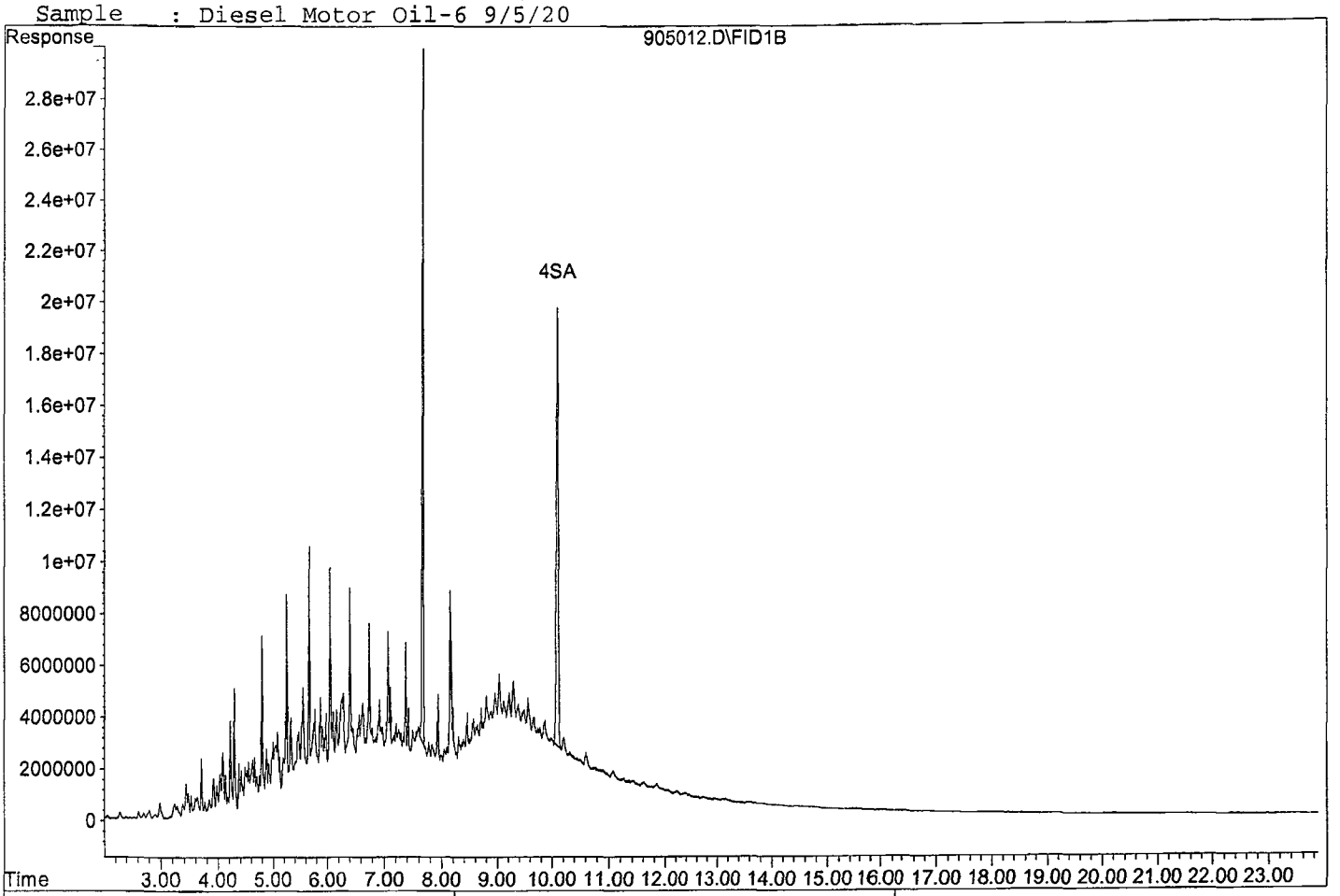
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

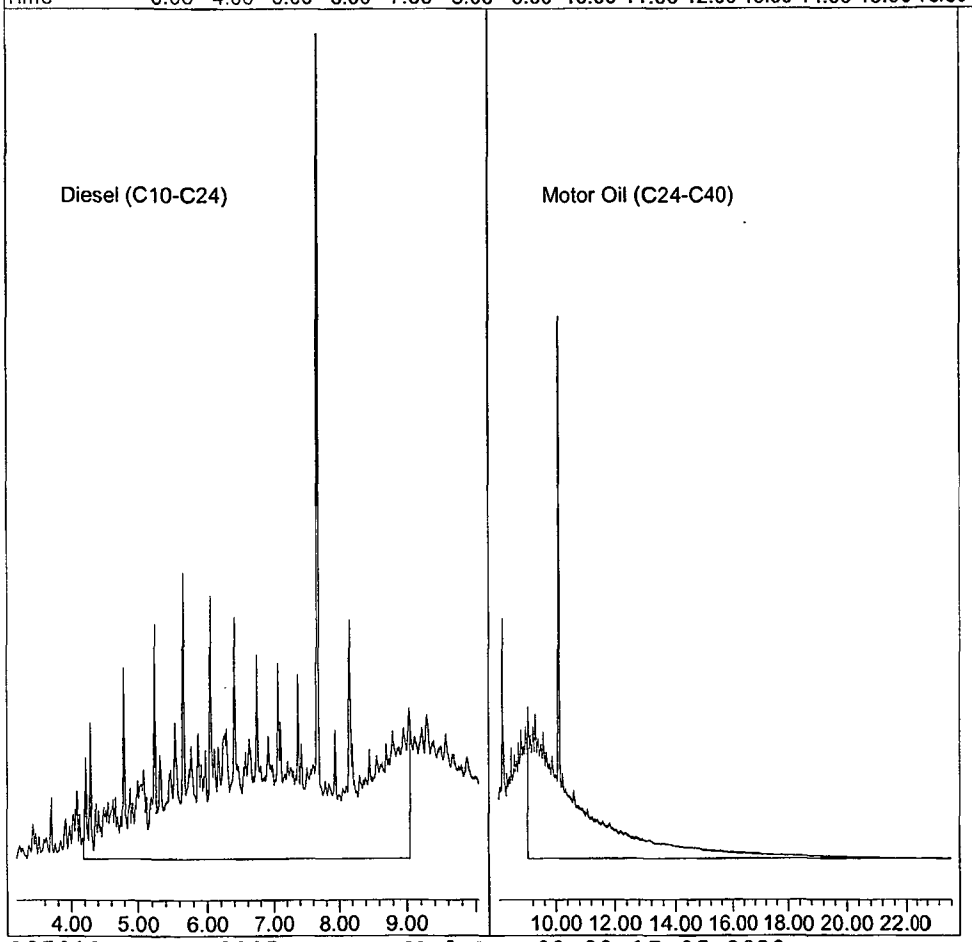
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

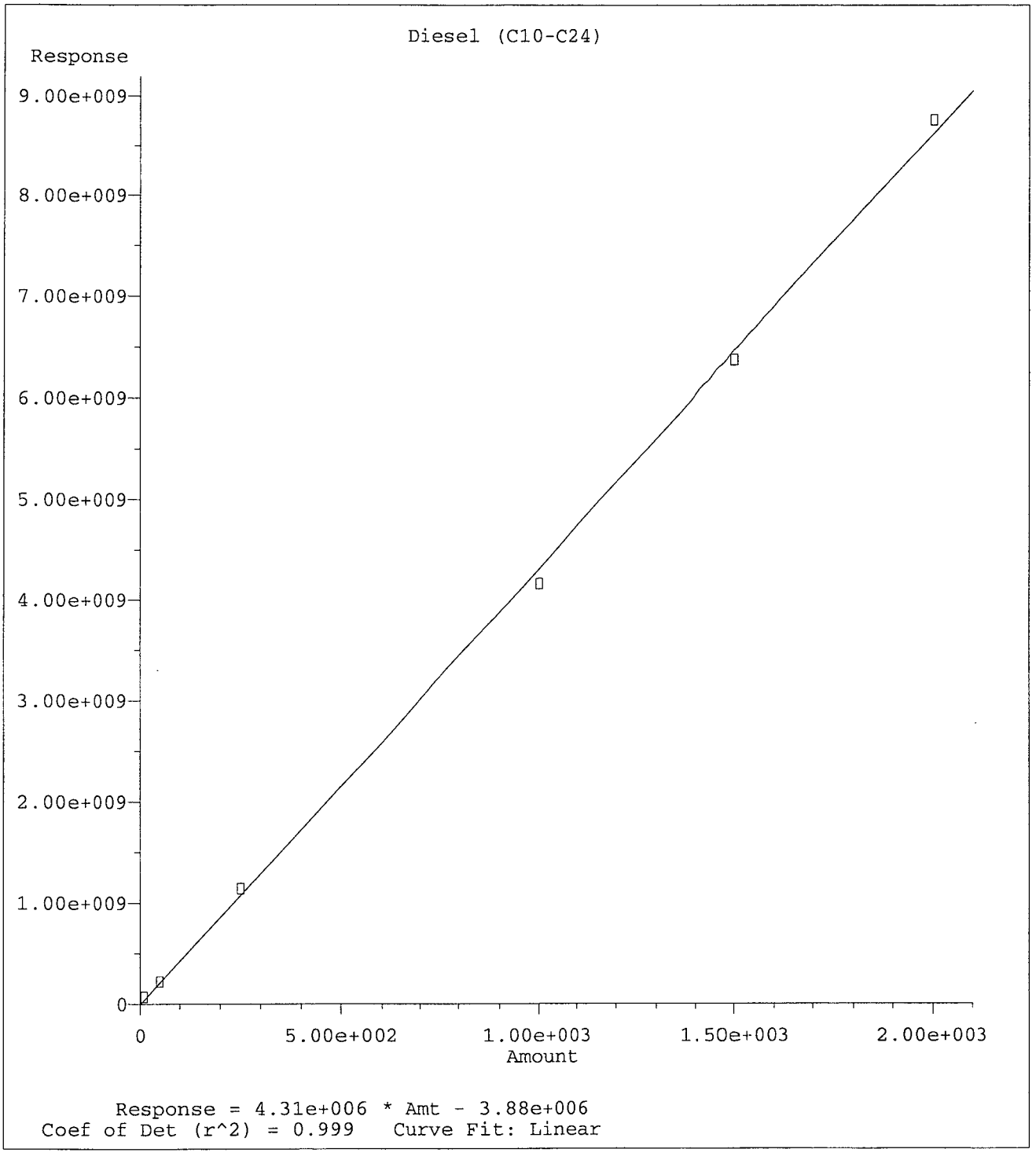
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.68	483575307	101.098 ppb
Surrogate Spike 30.000	Recovery =		336.99%
4) SA Octacosane(S)	10.11	404805297	100.724 ppb
Surrogate Spike 30.000	Recovery =		335.75%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	8760292310	2031.885 ppb
2) HBTM Motor Oil (C24-C40)	15.82	5994530170	2026.393 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905012.D
Sample : Diesel Motor Oil-6 9/5/20







Method Name: G:\APOLLO\DATA\200905\DOC0905.M
Calibration Table Last Updated: Wed Sep 09 09:10:41 2020

TPH Extractables
DOC0905

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 09/05/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 905013.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2384790	0.70	HATML	11
2	HBTM	Motor Oil (C24-C40)	1513790	1737490	15	HBTM	
3							
4							
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		Average			7.9		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905013.D Vial: 13
Acq On : 9-5-20 19:52:52 Operator:
Sample : Diesel Motor Oil-SS 7/21/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

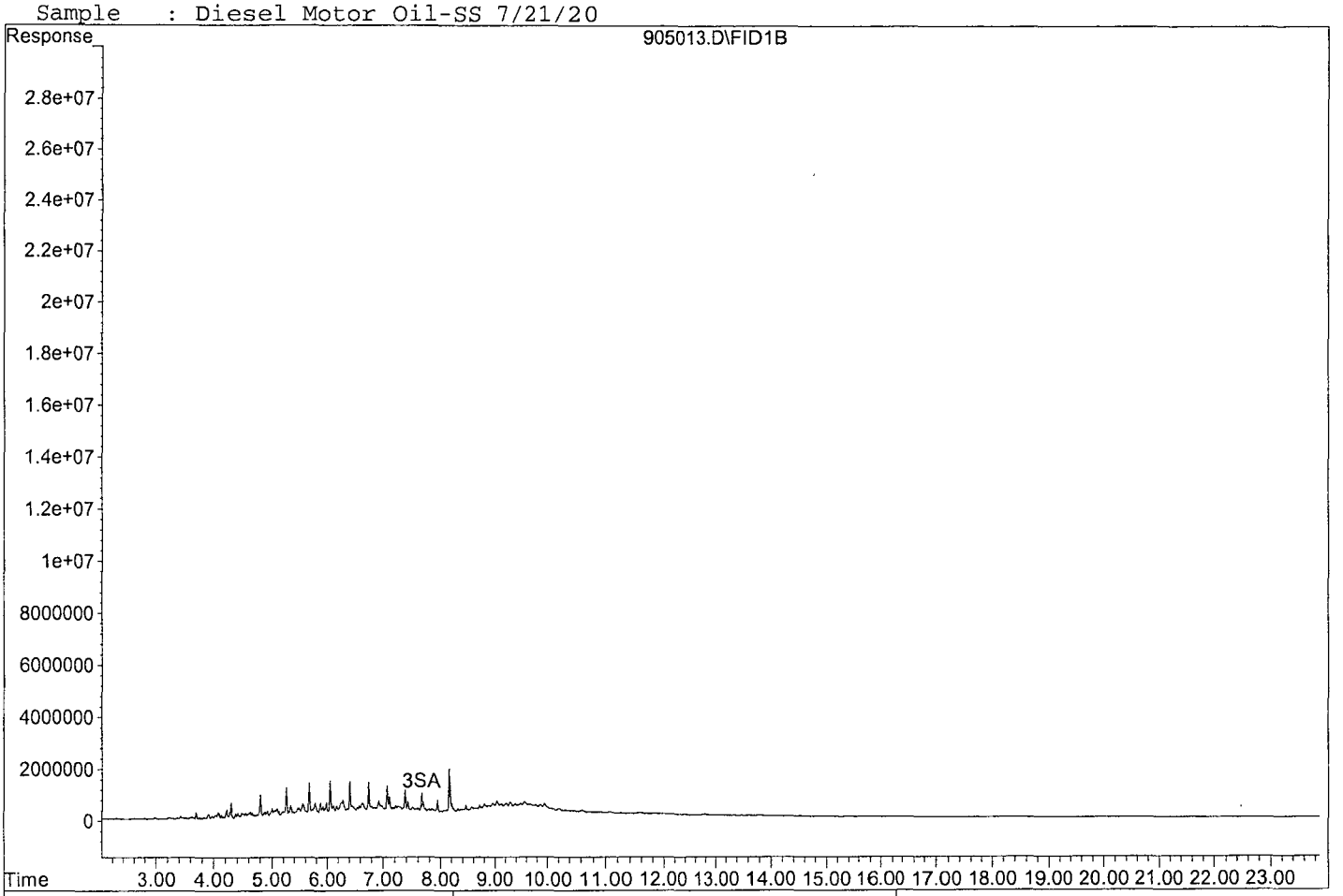
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

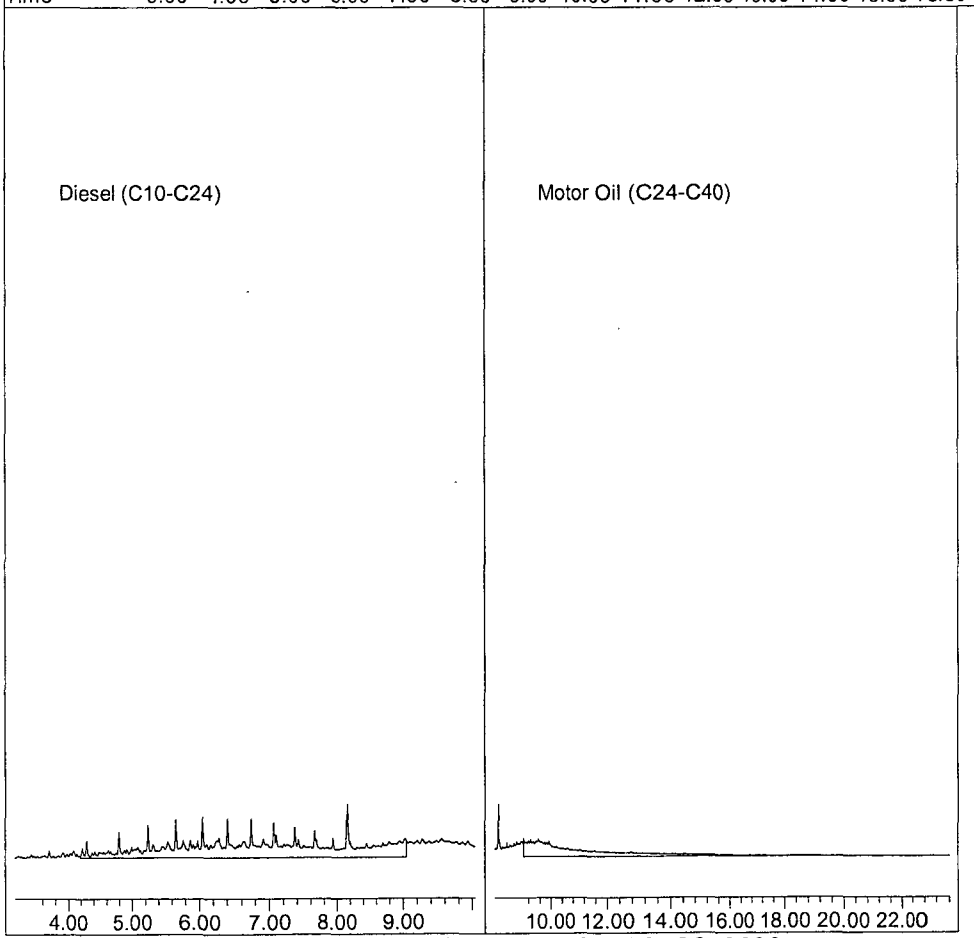
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	4757925	0.463 ppb
Surrogate Spike 30.000	Recovery =		1.54%
4) SA Octacosane(S)	10.06	-2131	N.D. ppb
Surrogate Spike 30.000	Recovery =		0.00%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1192394512	277.344 ppb
2) HBTM Motor Oil (C24-C40)	15.82	868745074	289.454 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905013.D
Sample : Diesel Motor Oil-SS 7/21/20





TPH Extractables
DEC0914

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 09/14/20
Matrix: Water Instrument: Apollo Initials: SS

914004.D 914005.D 914006.D 914007.D 914008.D 914009.D

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
1	SC	Decanoic Acid(S)	1032713	1038468	1205026	1249387	1259834	1291198					1179438	9.7	SC		
2																	
3																	
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0.278114

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200914\914004.D Vial: 4
Acq On : 9-14-20 10:24:43 Operator:
Sample : Decanoic Acid-1 9/14/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 14 16:45 2020 Quant Results File: DEC0914.RES

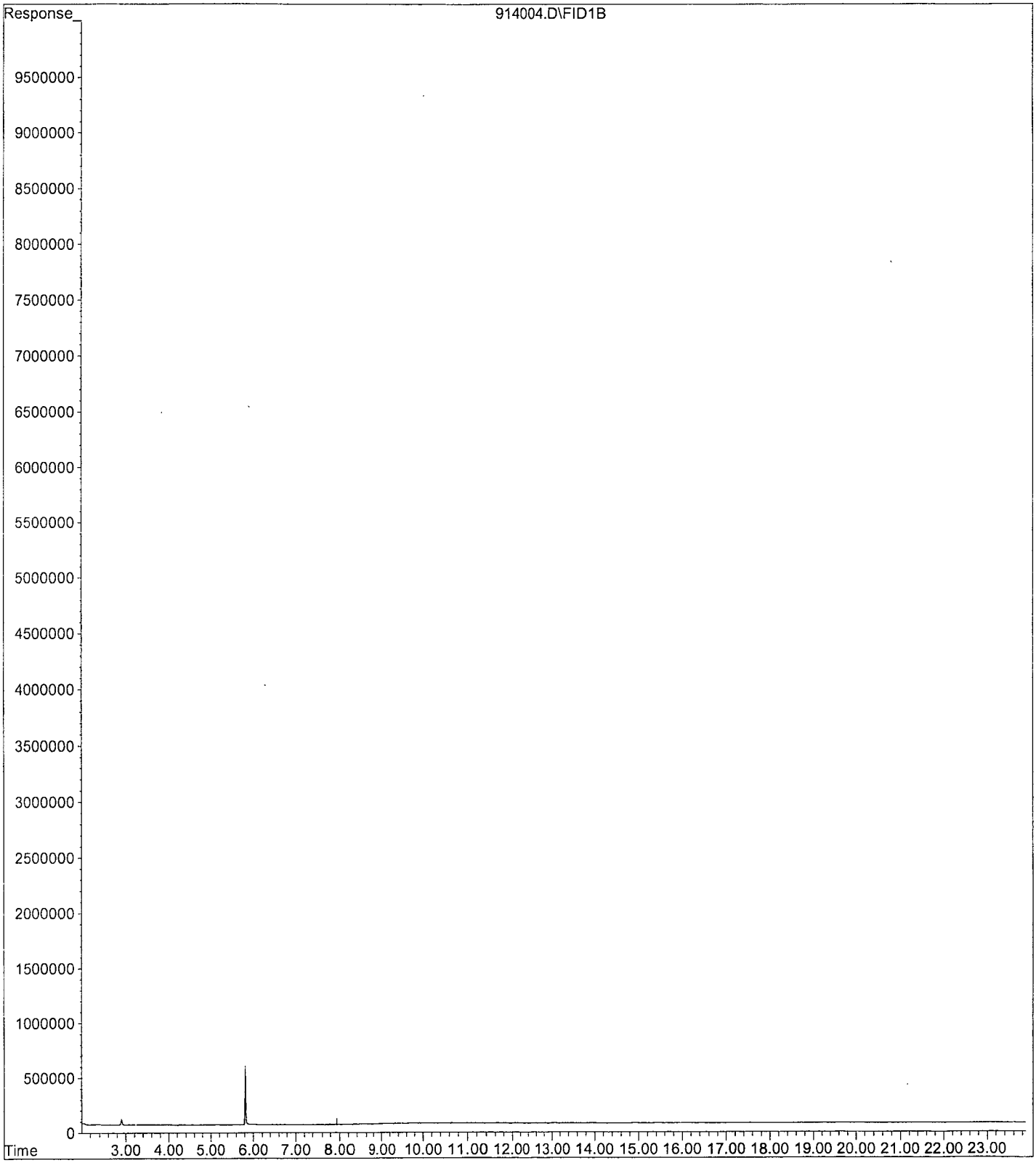
Method : G:\APOLLO\DATA\200914\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 14 13:05:45 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.82	6196276	2.627 ppb
Surrogate Spike 24.000		Recovery =	10.95%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\200914\914004.D
Operator :
Acquired : 9-14-20 10:24:43 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-1 9/14/20
Misc Info : water
Vial Number: 4



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200914\914005.D Vial: 5
Acq On : 9-14-20 10:52:47 Operator:
Sample : Decanoic Acid-2 9/14/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 14 16:45 2020 Quant Results File: DEC0914.RES

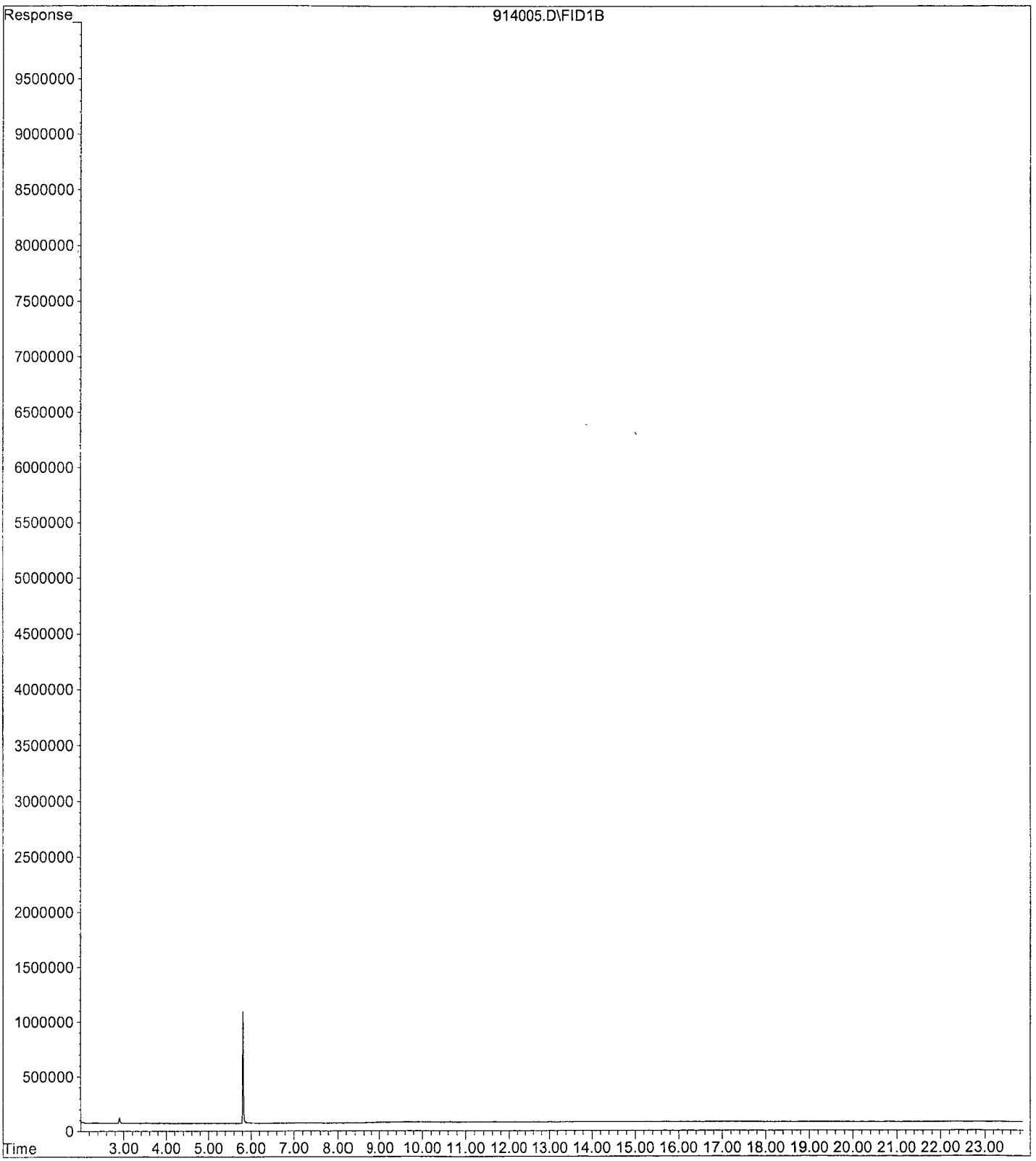
Method : G:\APOLLO\DATA\200914\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 14 13:05:45 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.82	12461617	5.283 ppb
Surrogate Spike 24.000	Recovery =		22.01%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\200914\914005.D
Operator :
Acquired : 9-14-20 10:52:47 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-2 9/14/20
Misc Info : water
Vial Number: 5



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200914\914006.D Vial: 6
Acq On : 9-14-20 11:20:51 Operator:
Sample : Decanoic Acid-3 9/14/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 14 16:45 2020 Quant Results File: DEC0914.RES

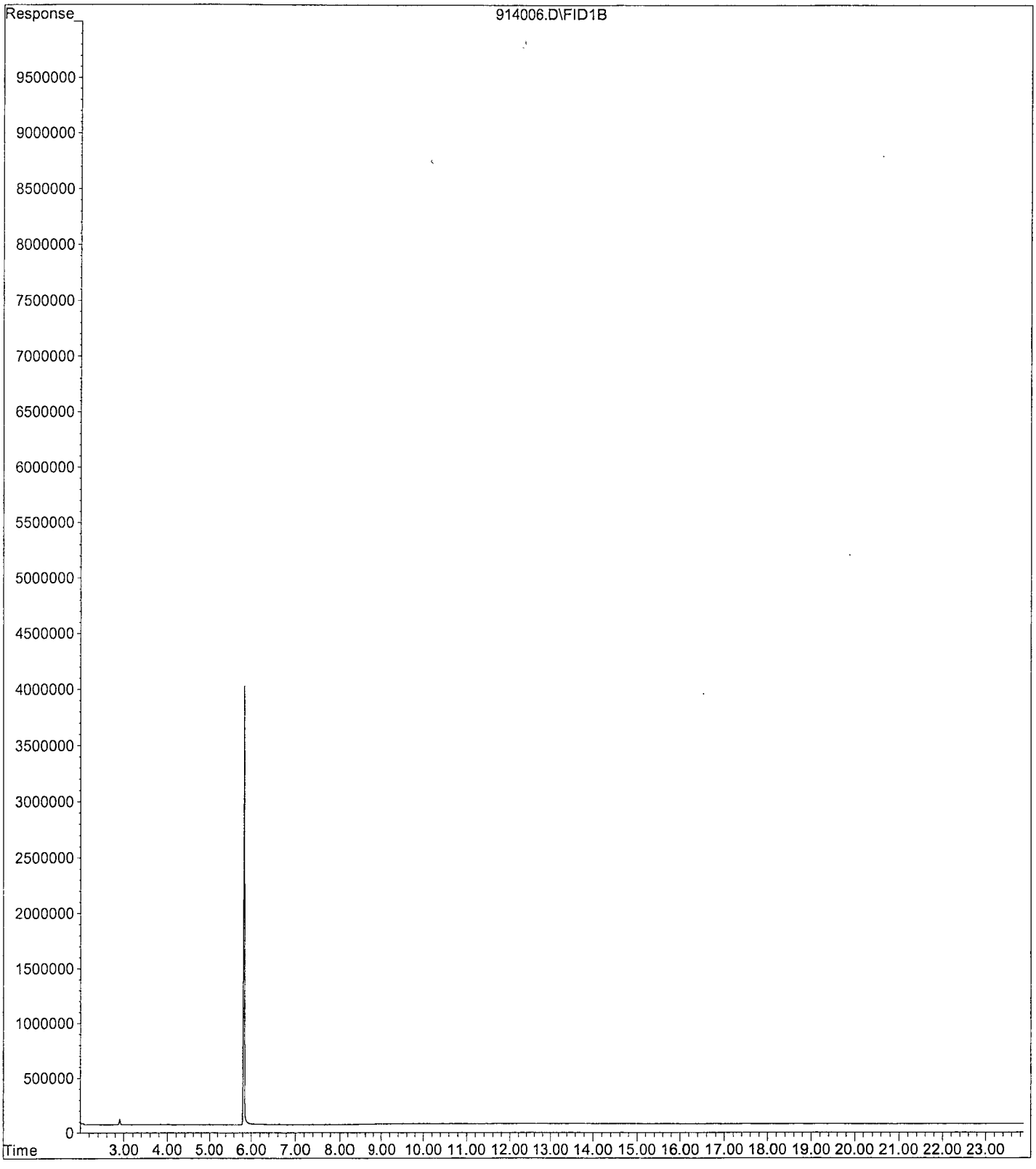
Method : G:\APOLLO\DATA\200914\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 14 13:05:45 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.83	57841244	24.521 ppb
Surrogate Spike 24.000		Recovery =	102.17%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\200914\914006.D
Operator :
Acquired : 9-14-20 11:20:51 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-3 9/14/20
Misc Info : water
Vial Number: 6



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200914\914007.D Vial: 7
Acq On : 9-14-20 11:48:52 Operator:
Sample : Decanoic Acid-4 9/14/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 14 16:45 2020 Quant Results File: DEC0914.RES

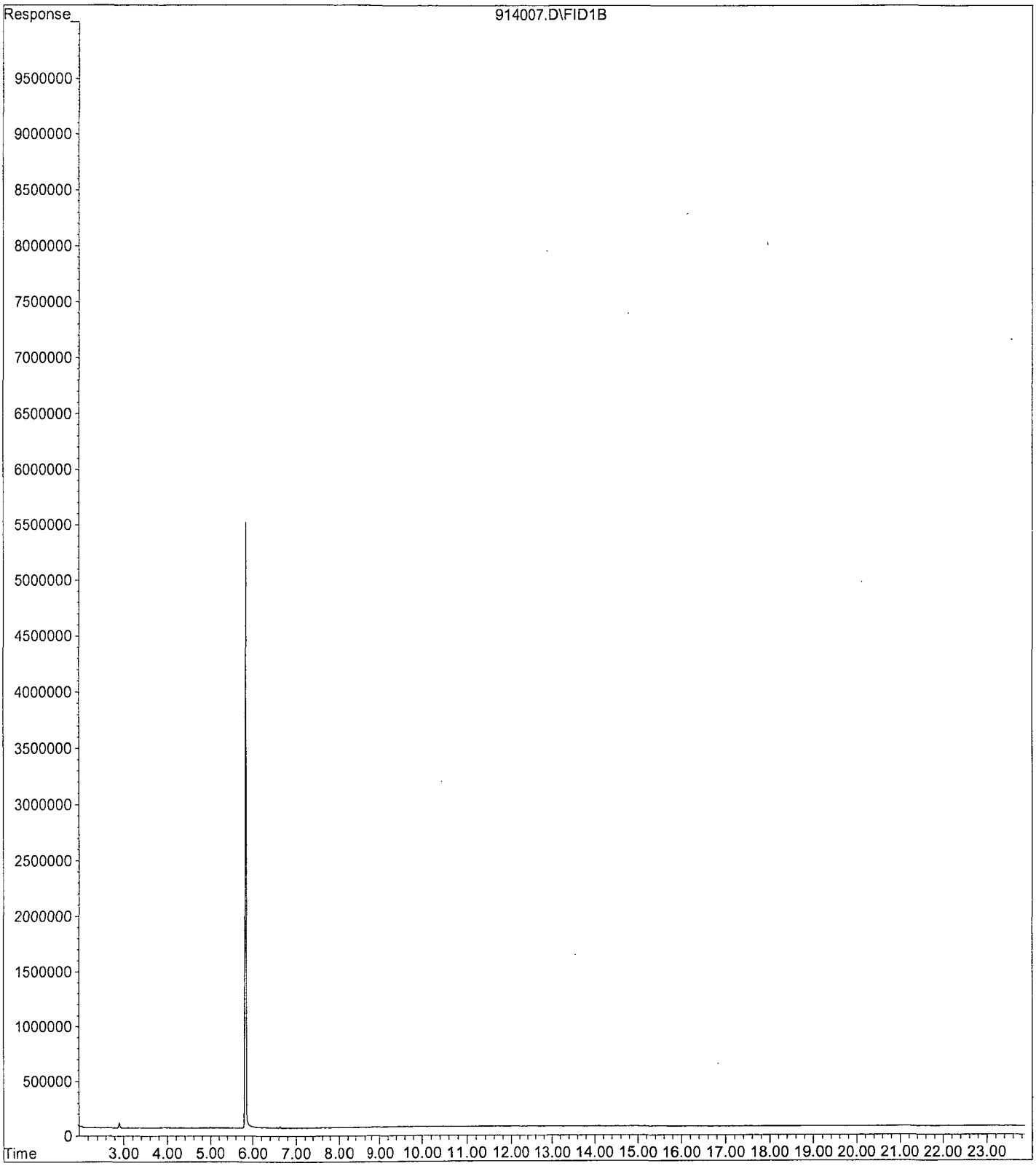
Method : G:\APOLLO\DATA\200914\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 14 13:05:45 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.84	89955859	38.135 ppb
Surrogate Spike 24.000	Recovery =		158.90%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\200914\914007.D
Operator :
Acquired : 9-14-20 11:48:52 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-4 9/14/20
Misc Info : water
Vial Number: 7



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200914\914008.D Vial: 8
Acq On : 9-14-20 12:16:53 Operator:
Sample : Decanoic Acid-5 9/14/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 14 16:45 2020 Quant Results File: DEC0914.RES

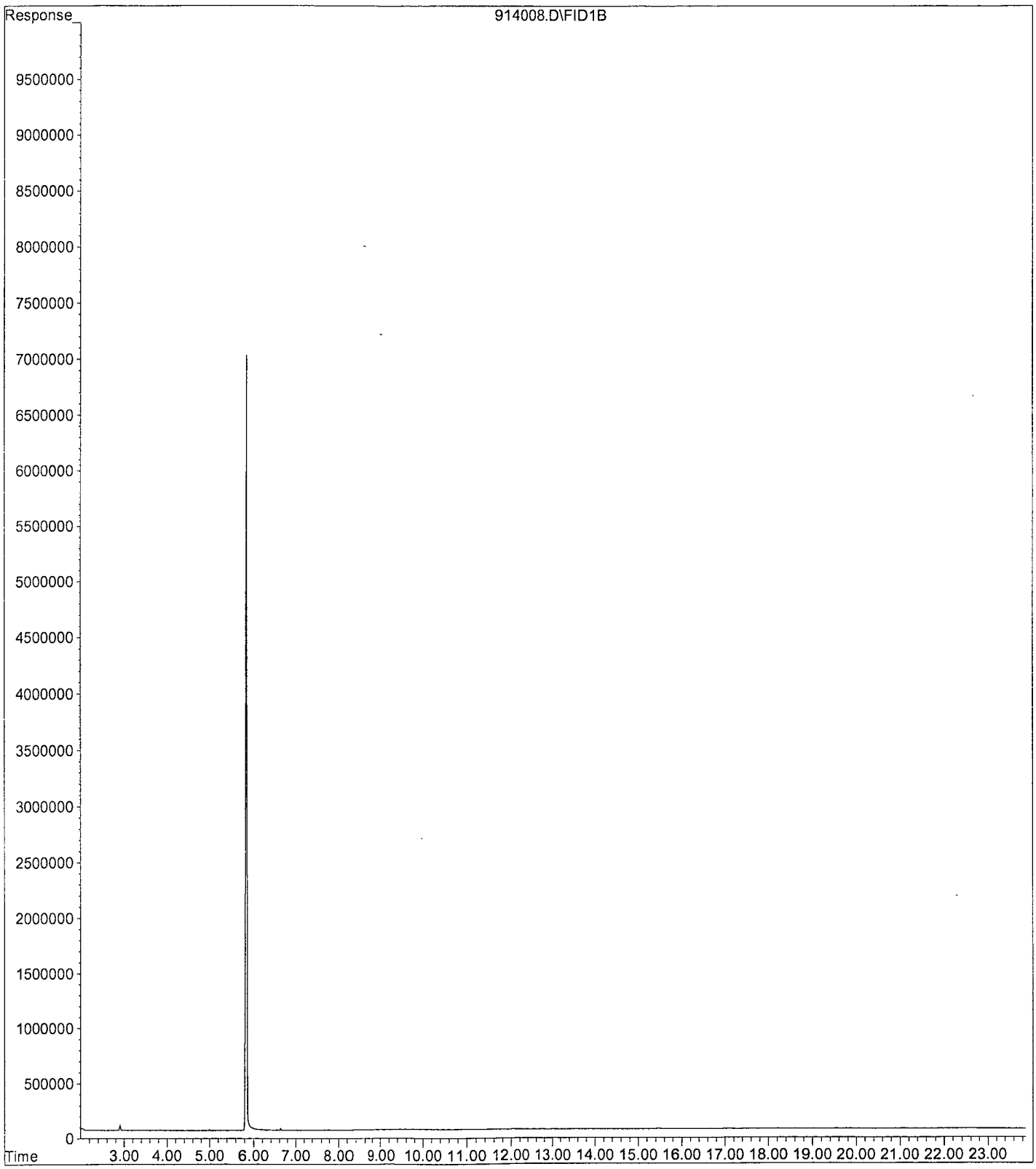
Method : G:\APOLLO\DATA\200914\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 14 13:05:45 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.85	120944103	51.272 ppb
Surrogate Spike 24.000	Recovery	=	213.63%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\200914\914008.D
Operator :
Acquired : 9-14-20 12:16:53 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-5 9/14/20
Misc Info : water
Vial Number: 8



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200914\914009.D Vial: 9
Acq On : 9-14-20 12:44:57 Operator:
Sample : Decanoic Acid-6 9/14/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 14 16:45 2020 Quant Results File: DEC0914.RES

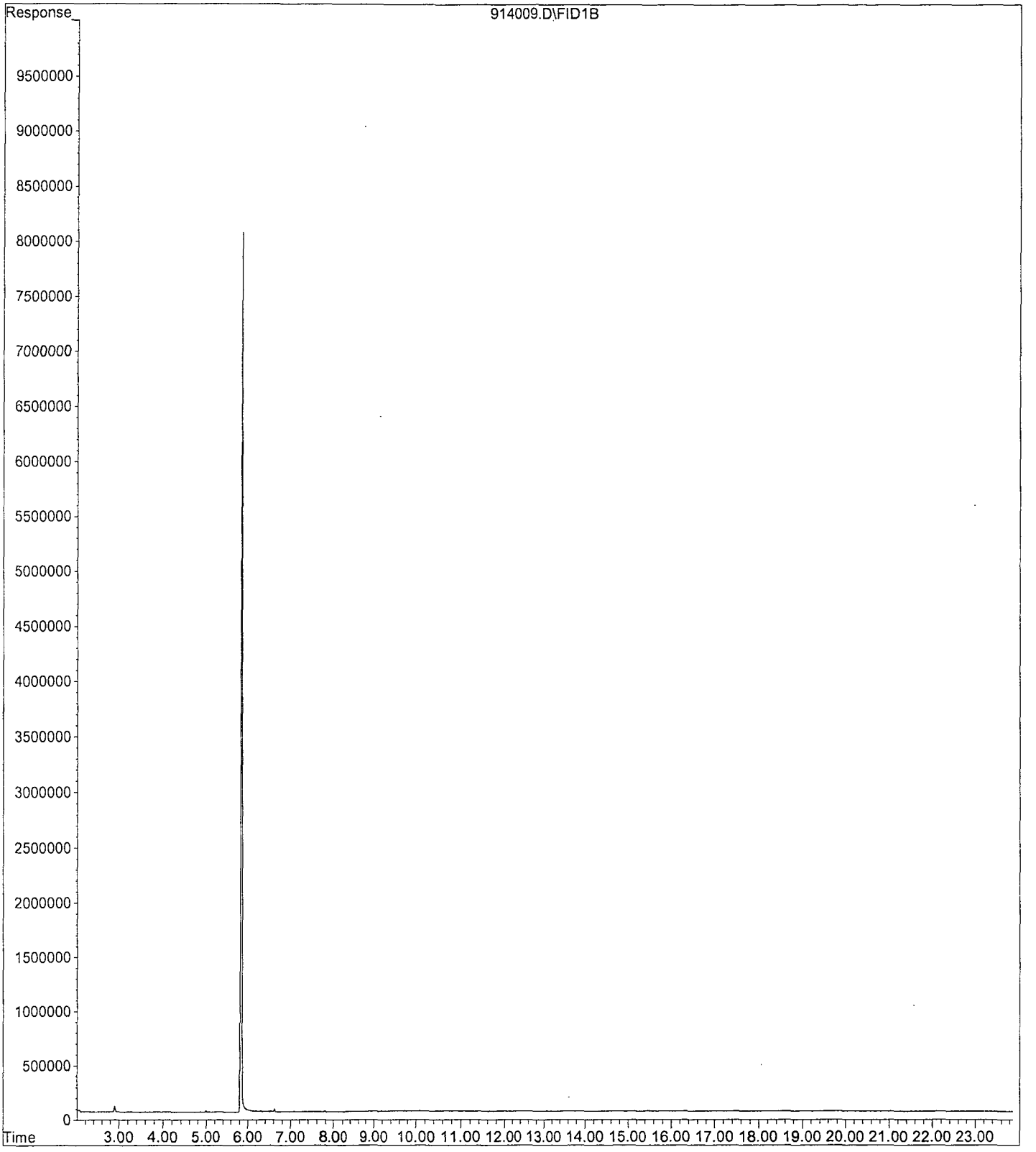
Method : G:\APOLLO\DATA\200914\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 14 13:05:45 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.85	154943704	65.685 ppb
Surrogate Spike 24.000		Recovery =	273.69%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\200914\914009.D
Operator :
Acquired : 9-14-20 12:44:57 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-6 9/14/20
Misc Info : water
Vial Number: 9



TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/20/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019032.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2034570	15	HATML	5.3
2	HBTM	Motor Oil (C24-C40)	1513790	1424470	5.9	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2479280	1.8	SA	
4	SA	Octacosane(S)	2058600	1853750	10	SA	
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		Average			8.2		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019032.D Vial: 32
Acq On : 10-20-20 12:52:56 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 20 12:20 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

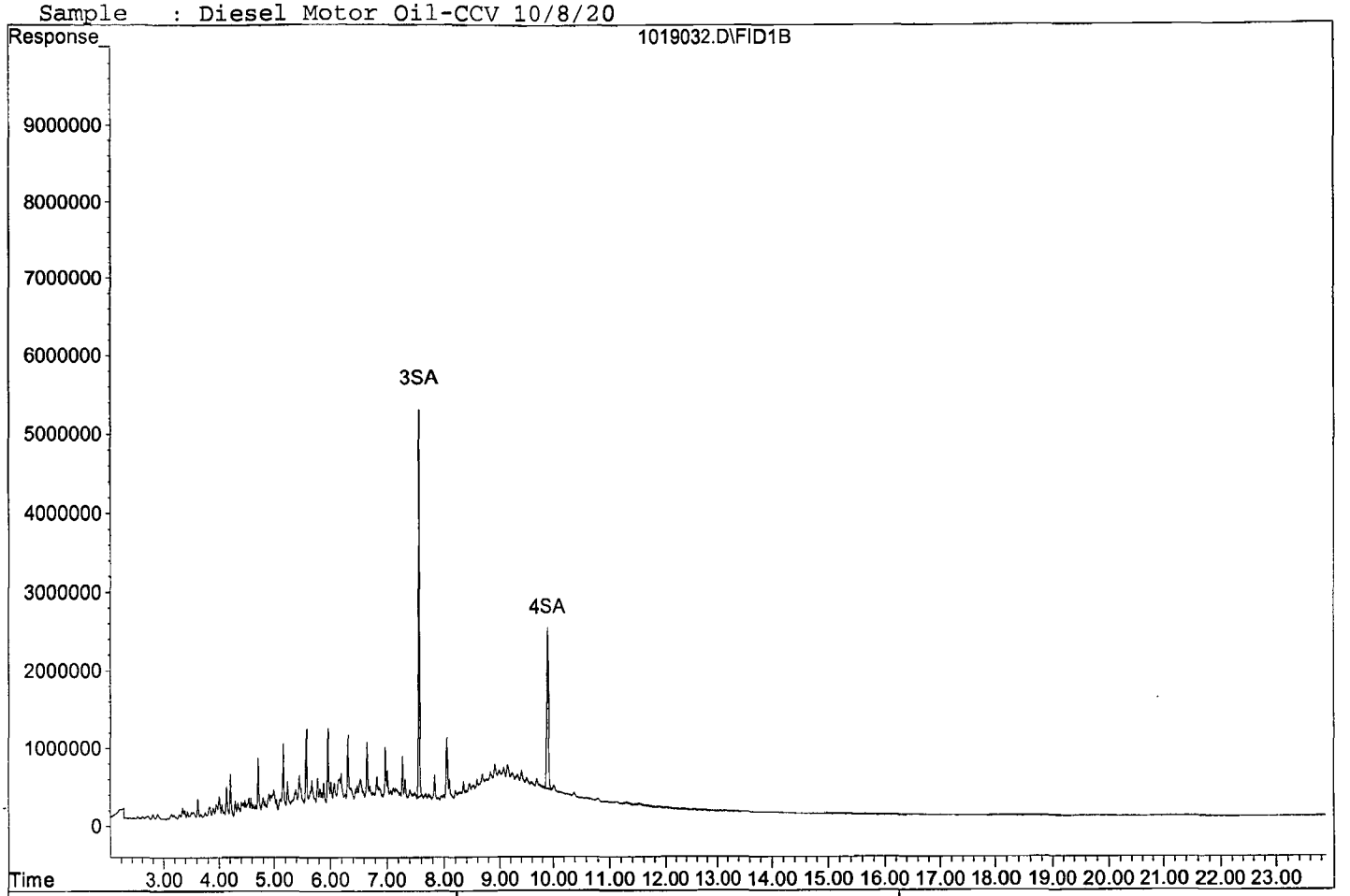
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

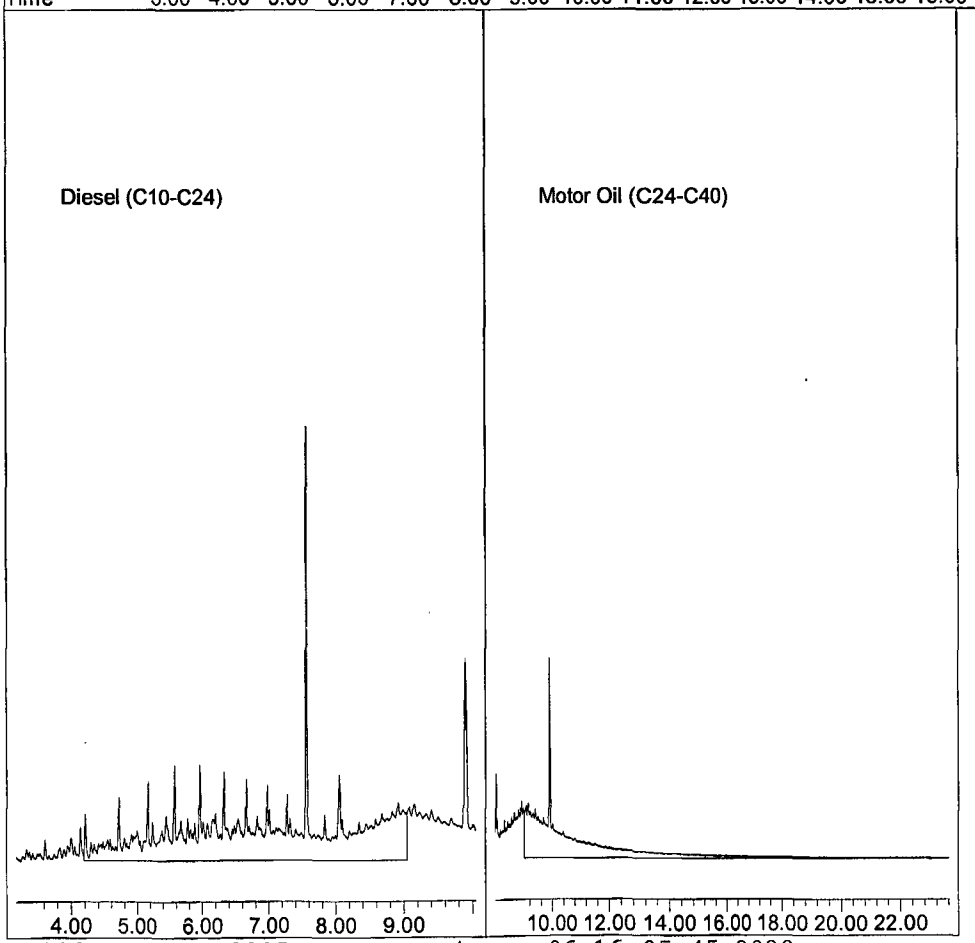
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	61981982	12.272 ppb
Surrogate Spike 30.000	Recovery =		40.91%
4) SA Octacosane(S)	9.90	46343770	11.256 ppb
Surrogate Spike 30.000	Recovery =		37.52%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1017283507	236.747 ppb
2) HBTM Motor Oil (C24-C40)	15.82	712233098	235.248 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019032.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/20/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019042.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2401620	2123880	12	HATML	1.2
2	HBTM	Motor Oil (C24-C40)	1513790	1423120	6.0	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2581000	2.2	SA	
4	SA	Octacosane(S)	2058600	1959380	4.8	SA	
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		Average			6.3		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019042.D Vial: 42
Acq On : 10-20-20 20:21:12 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 21 6:03 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

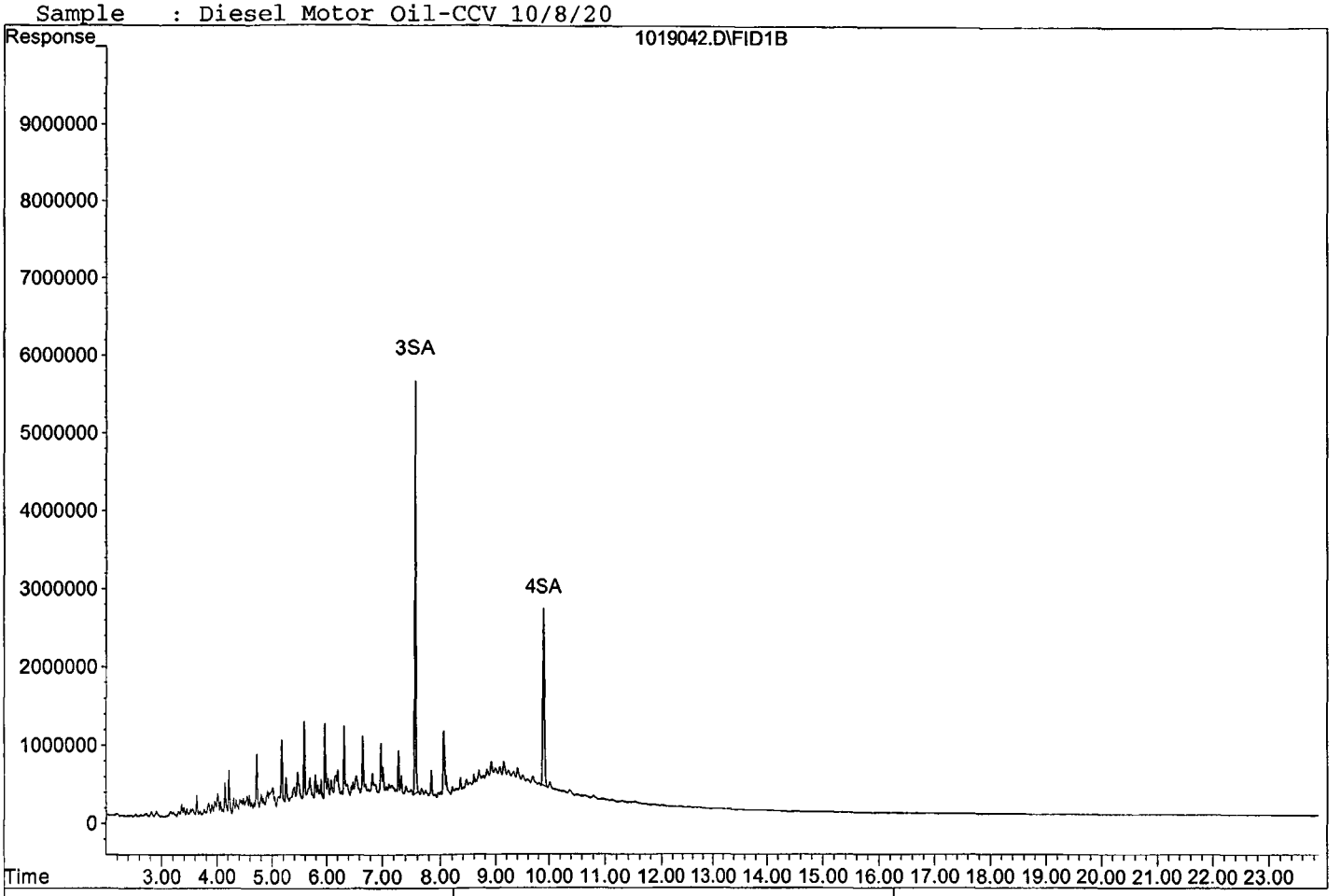
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

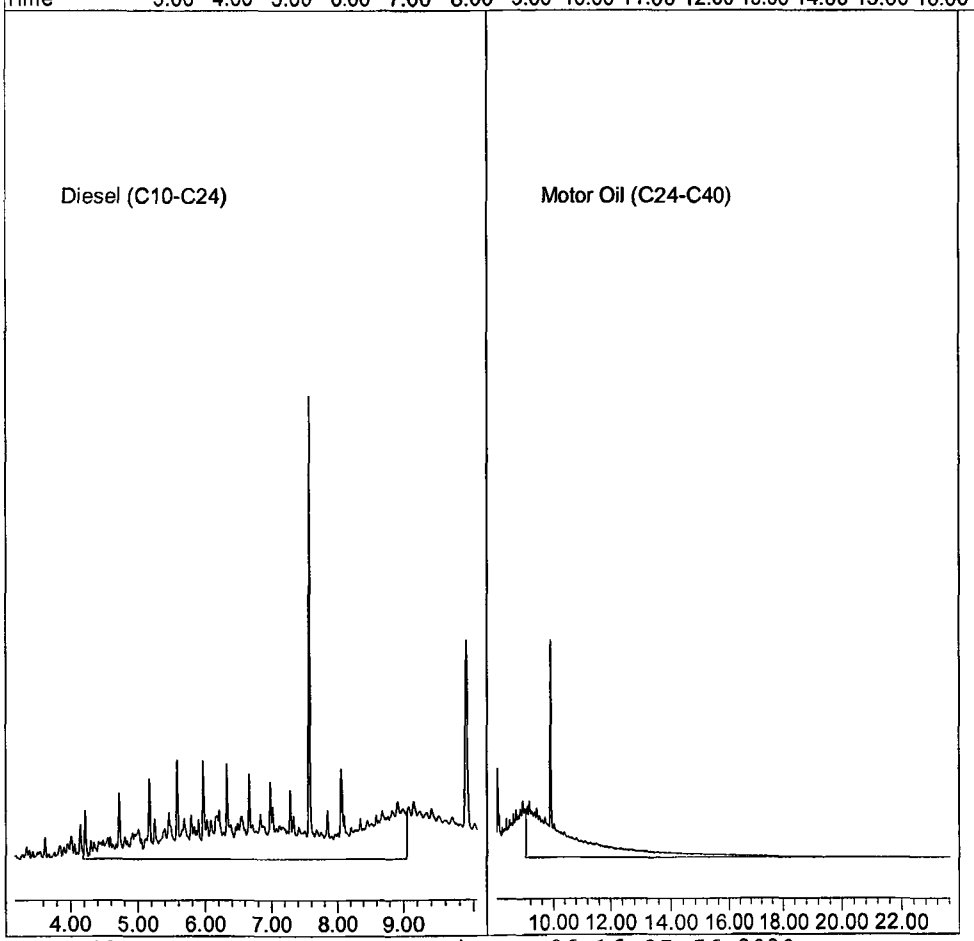
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	64525001	12.775 ppb
Surrogate Spike 30.000	Recovery =		42.58%
4) SA Octacosane(S)	9.90	48984601	11.898 ppb
Surrogate Spike 30.000	Recovery =		39.66%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1061941289	247.100 ppb
2) HBTM Motor Oil (C24-C40)	15.82	711561975	235.027 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019042.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
TPHO0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/21/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019058.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C8-C18)	1739130	1497910	14	HATML	4.6
2	HBTM	Motor Oil (C10-C25)	2334870	2340630	0.25	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2528500	0.12	SA	
4	SA	Octacosane(S)	2058600	1916590	6.9	SA	
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		Average			5.3		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019058.D Vial: 58
Acq On : 10-21-20 8:36:29 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 6 13:14 2020 Quant Results File: DOC0905.RES

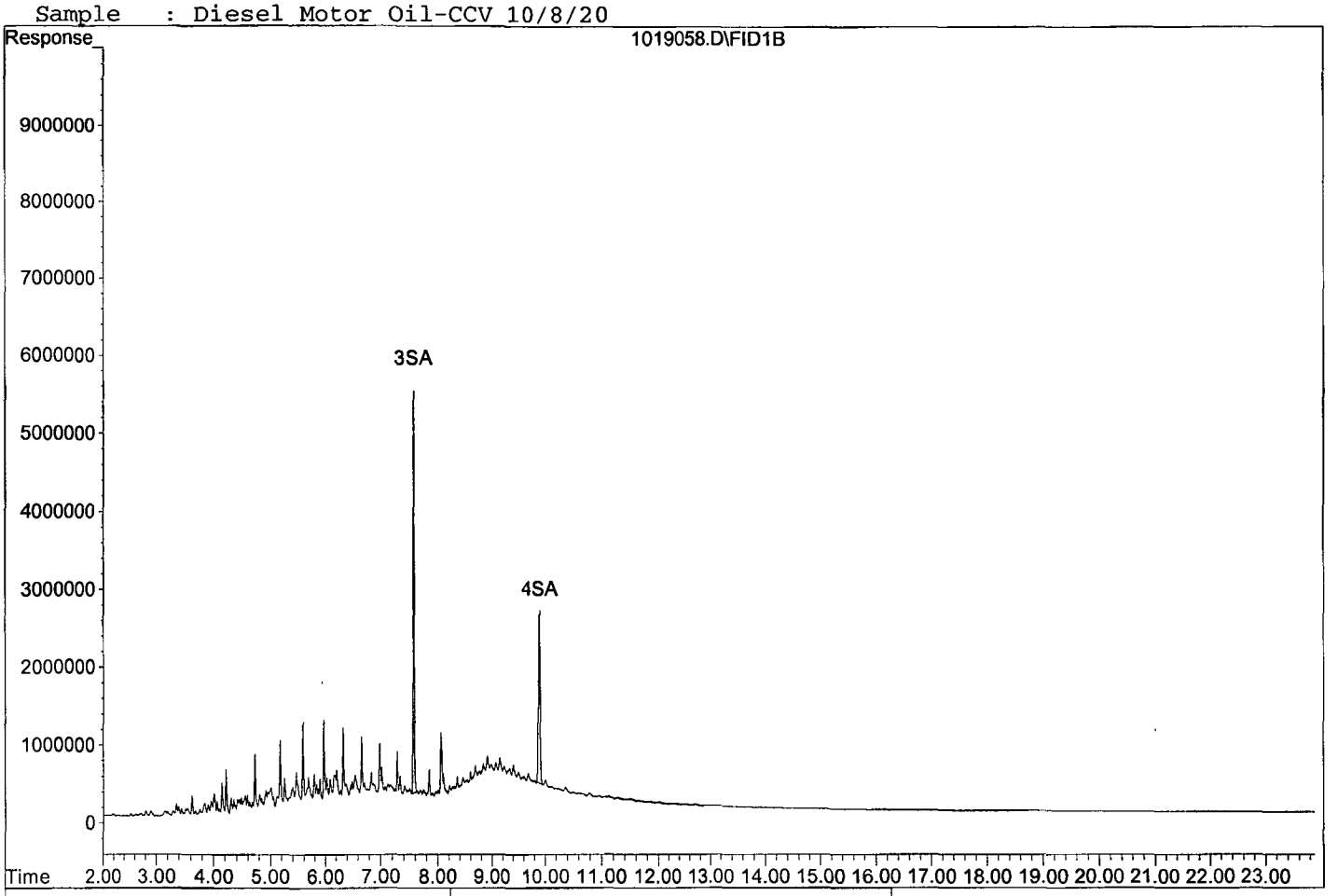
Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

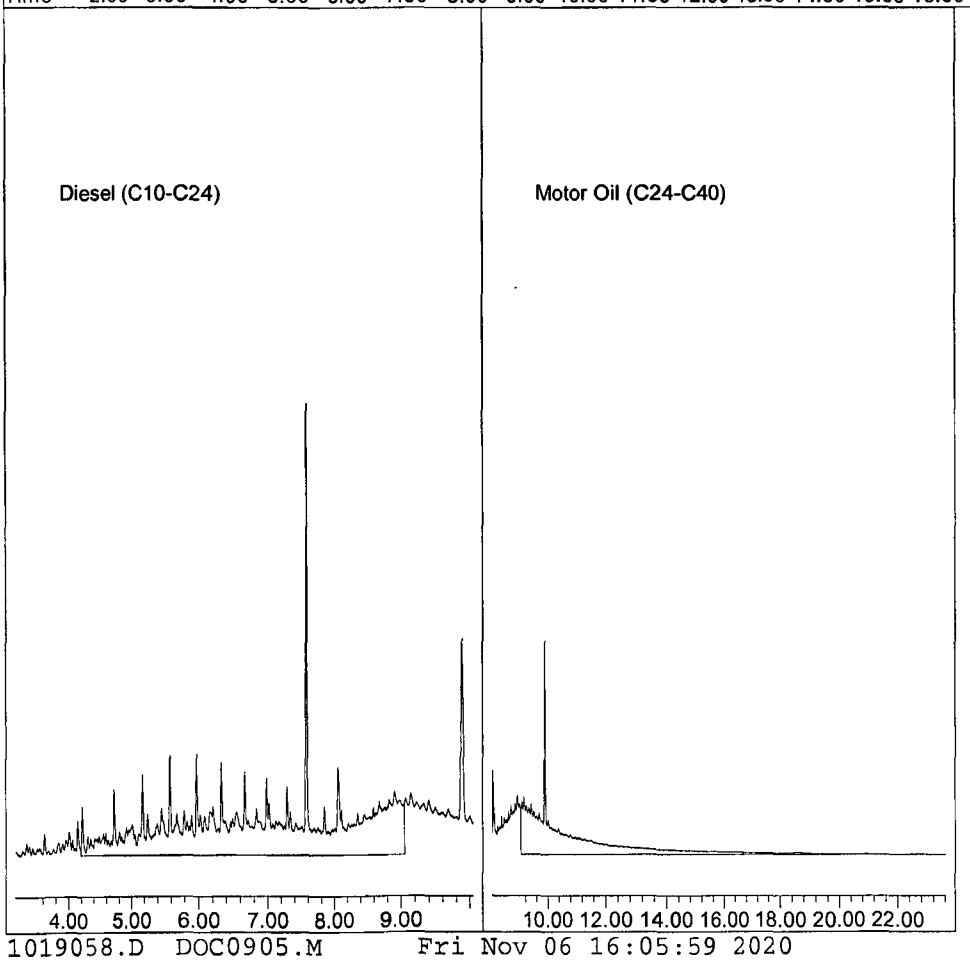
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	63212479	12.516 ppb
Surrogate Spike 12.000	Recovery =		104.30%
4) SA Octacosane(S)	9.89	47914848	11.638 ppb
Surrogate Spike 12.000	Recovery =		96.98%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1081178444	251.560 ppb
2) HBTM Motor Oil (C24-C40)	15.82	723082353	238.832 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019058.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/21/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019066.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2401620	2159620	10	HATML	0.50
2	HBTM	Motor Oil (C24-C40)	1513790	1391430	8.1	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2548470	0.92	SA	
4	SA	Octacosane(S)	2058600	1921850	6.6	SA	
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		Average			6.4		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019066.D Vial: 66
Acq On : 10-21-20 12:38:41 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 22 7:01 2020 Quant Results File: DOC0905.RES

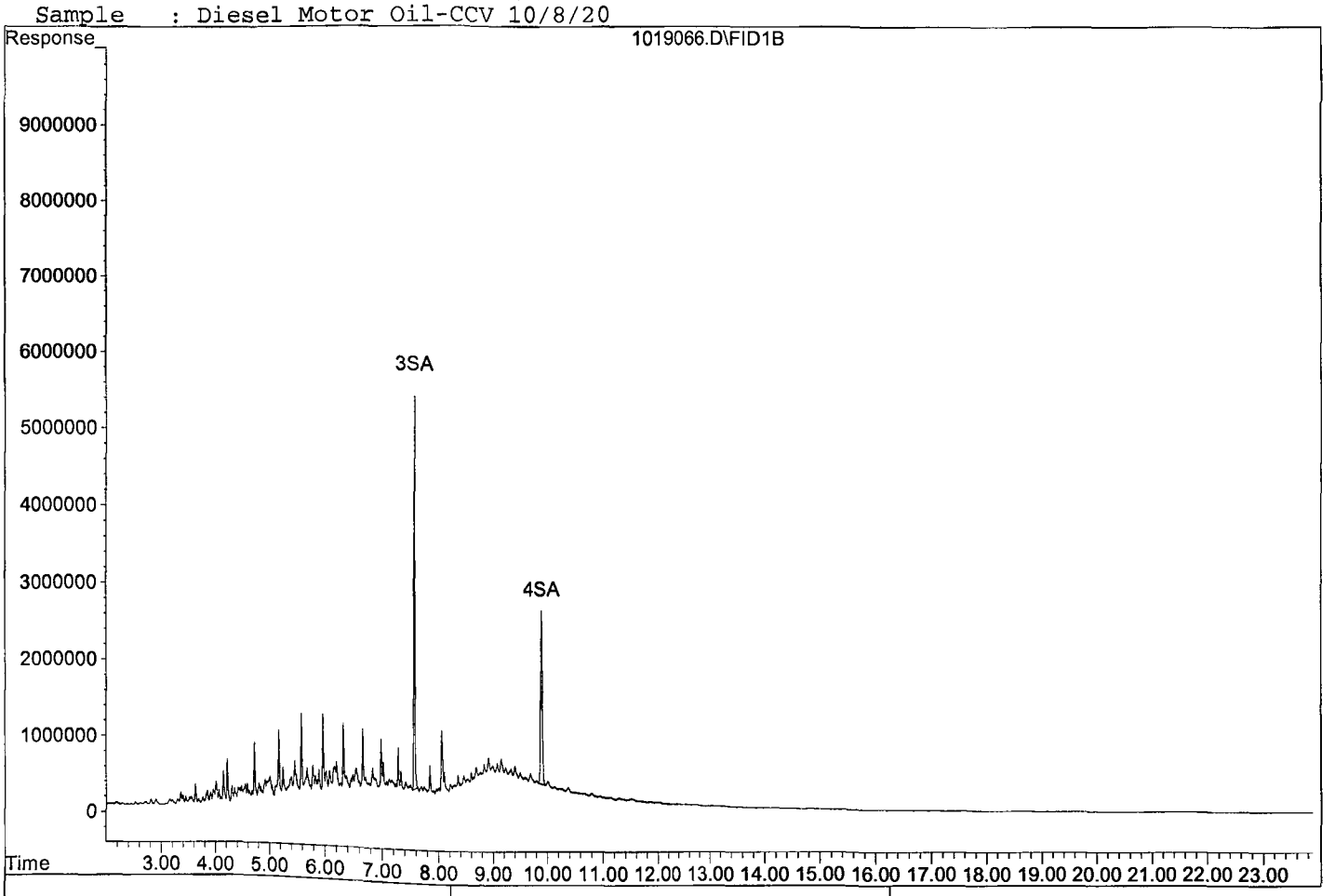
Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

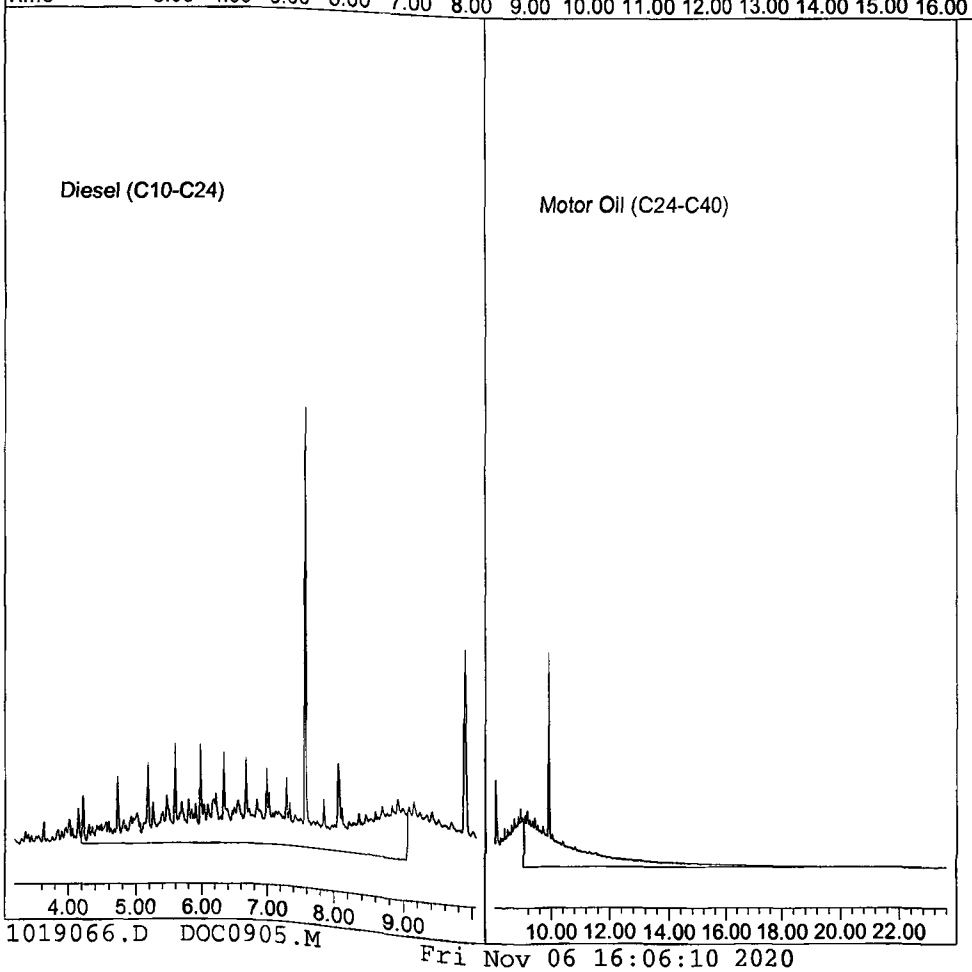
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	63711872	12.614 ppb
Surrogate Spike 12.000	Recovery =		105.12%
4) SA Octacosane(S)	9.89	48046365	11.670 ppb
Surrogate Spike 12.000	Recovery =		97.25%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1079808284	251.242 ppb
2) HBTM Motor Oil (C24-C40)	15.82	695715006	229.792 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019066.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
DEC0914

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/22/20
Instrument: Apollo
Initial Cal. Date: 09/14/20
Data File: 1019089.D

		Compound	MEAN	CCRF	%D	%Drift	
1	SC	Decanoic Acid(S)	1179440	1080810	8.4	SC	
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		Average			8.4		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201019\1019089.D Vial: 89
Acq On : 10-22-20 21:07:25 Operator:
Sample : Decanoic Acid-CCV 7/28/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 14:53 2020 Quant Results File: DEC0914.RES

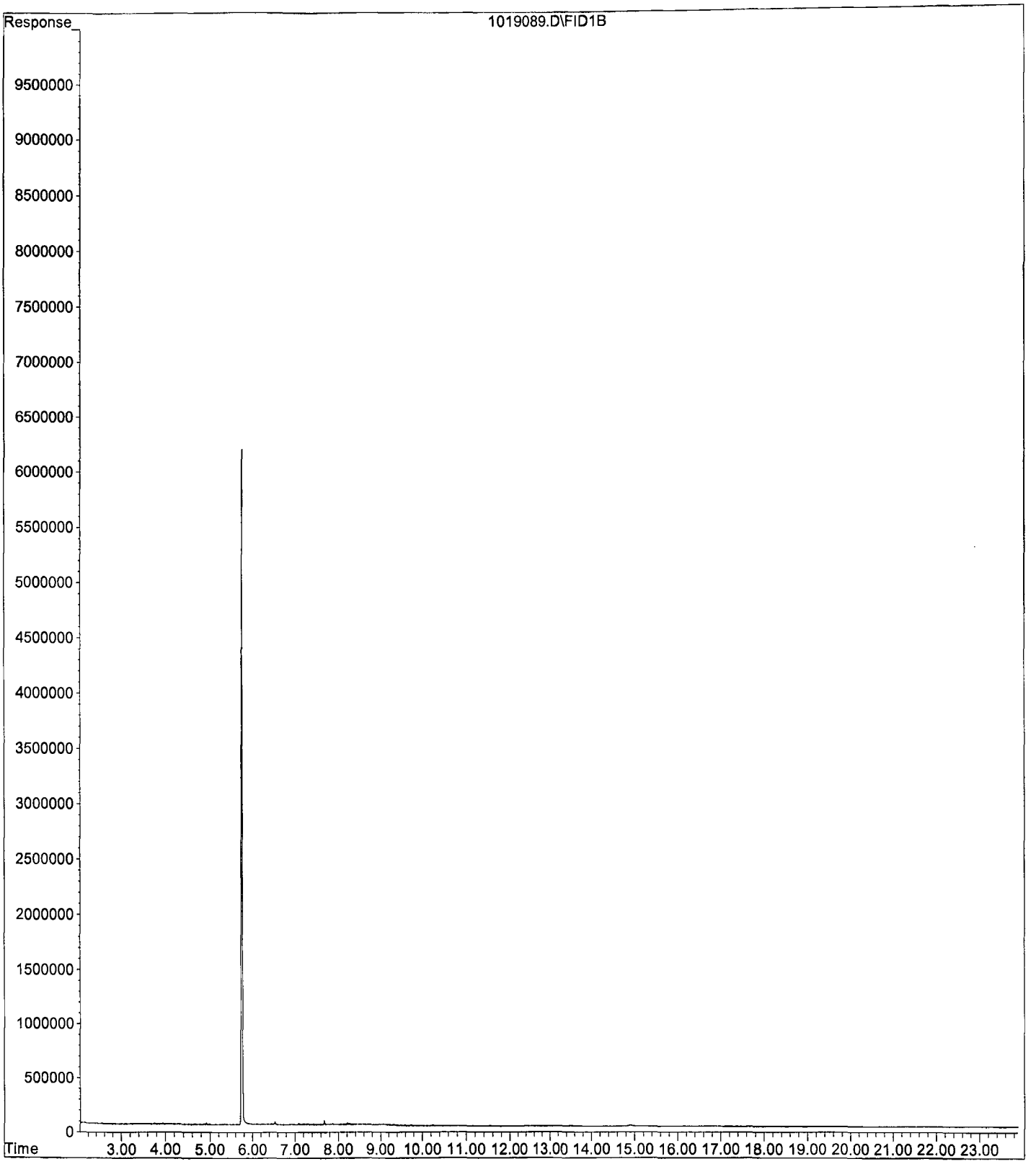
Method : G:\APOLLO\DATA\201028\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 29 11:37:40 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.76f	103757693	43.986 ppb
Surrogate Spike 24.000	Recovery =		183.28%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\201019\1019089.D
Operator :
Acquired : 10-22-20 21:07:25 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-CCV 7/28/20
Misc Info : Water
Vial Number: 89



TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/22/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019090.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2401620	2138200	11	HATML	0.50
2	HBTM	Motor Oil (C24-C40)	1513790	1412830	6.7	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2590540	2.6	SA	
4	SA	Octacosane(S)	2058600	1979560	3.8	SA	
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		Average			6.0		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019090.D Vial: 90
Acq On : 10-22-20 21:35:28 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 14:51 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

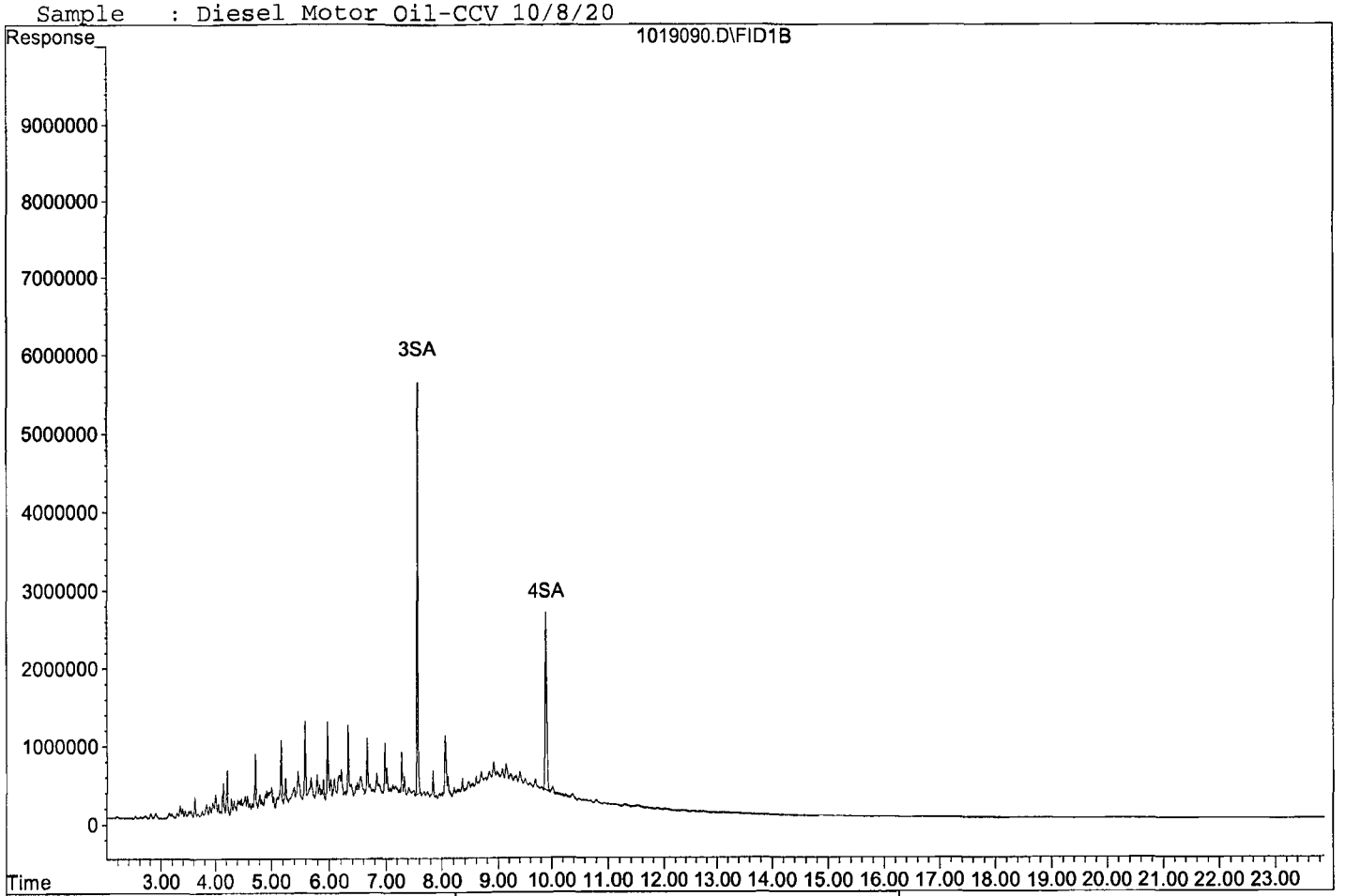
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

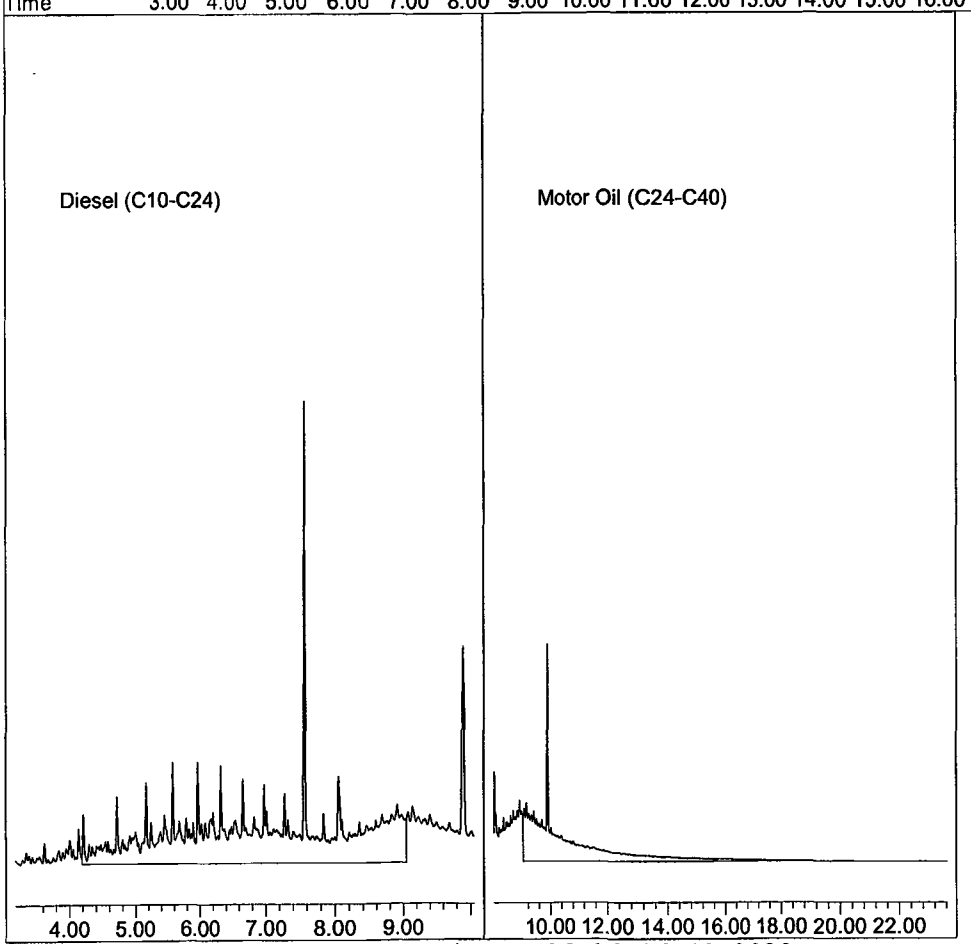
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	64763551	12.823 ppb
Surrogate Spike 12.000	Recovery =		106.86%
4) SA Octacosane(S)	9.90	49488991	12.020 ppb
Surrogate Spike 12.000	Recovery =		100.17%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1069102362	248.760 ppb
2) HBTM Motor Oil (C24-C40)	15.82	706416325	233.327 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019090.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
DEC0914

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/23/20
Instrument: Apollo
Initial Cal. Date: 09/14/20
Data File: 1019096.D

		Compound	MEAN	CCRF	%D	%Drift	
1	SC	Decanoic Acid(S)	1179440	1105030	6.3	SC	
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		Average			6.3		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019096.D Vial: 96
Acq On : 10-23-20 0:23:40 Operator:
Sample : Decanoic Acid-CCV 7/28/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 14:54 2020 Quant Results File: DEC0914.RES

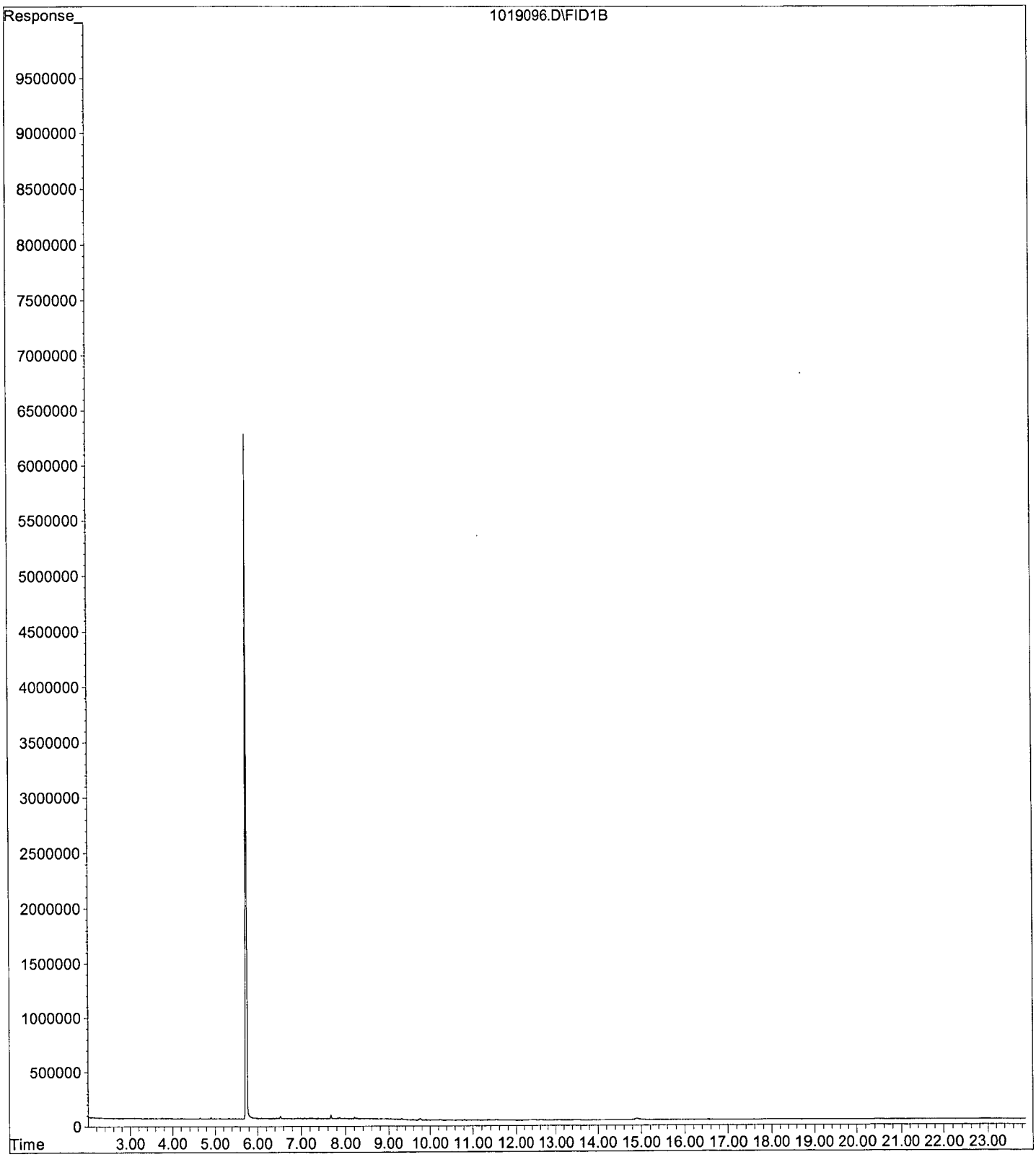
Method : G:\APOLLO\DATA\201028\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 29 11:37:40 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.76f	106082442	44.972 ppb
Surrogate Spike 24.000	Recovery = 187.38%		
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\201019\1019096.D
Operator :
Acquired : 10-23-20 0:23:40 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-CCV 7/28/20
Misc Info : Water
Vial Number: 96



TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/23/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019097.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2156260	10	HATML	0.34
2	HBTM	Motor Oil (C24-C40)	1513790	1417440	6.4	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2622430	3.8	SA	
4	SA	Octacosane(S)	2058600	2022860	1.7	SA	
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		Average			5.5		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019097.D Vial: 97
Acq On : 10-23-20 0:51:37 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 14:52 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

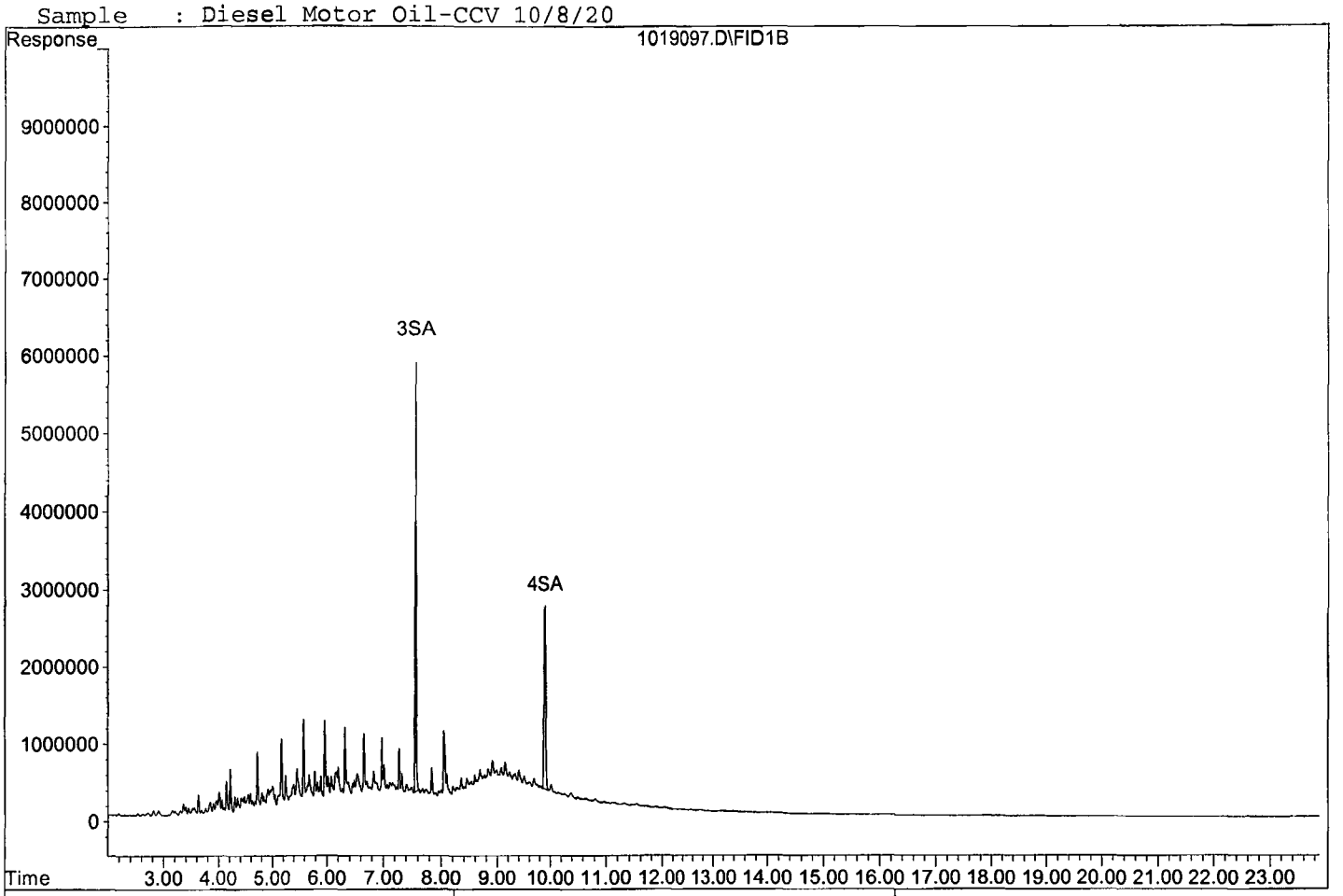
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

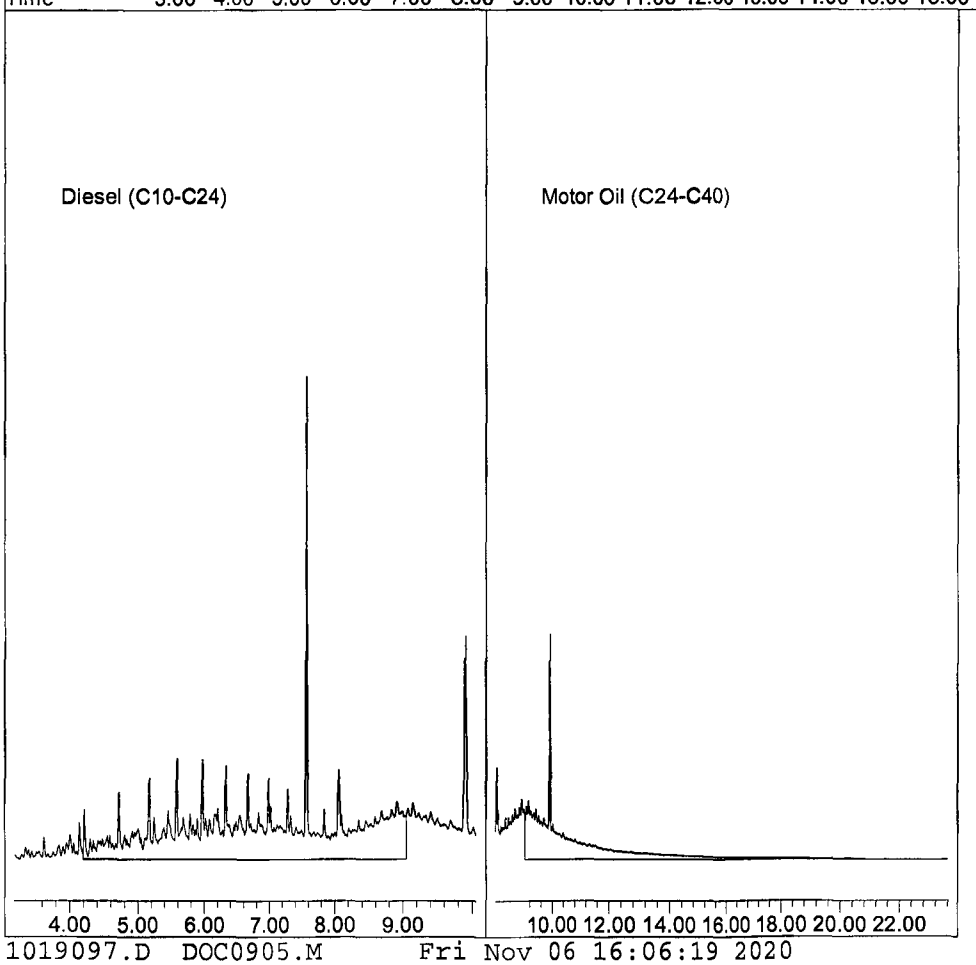
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	65560724	12.980 ppb
Surrogate Spike 12.000	Recovery =	108.17%	
4) SA Octacosane(S)	9.90	50571521	12.283 ppb
Surrogate Spike 12.000	Recovery =	102.36%	
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1078131784	250.854 ppb
2) HBTM Motor Oil (C24-C40)	15.82	708720976	234.088 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019097.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/29/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1028055.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2210360	8.0	HATML	2.8
2	HBTM	Motor Oil (C24-C40)	1513790	1440710	4.8	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2697470	6.8	SA	
4	SA	Octacosane(S)	2058600	2124220	3.2	SA	
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		Average			5.7		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201028\1028055.D Vial: 55
Acq On : 10-29-20 16:19:06 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 16:00 2020 Quant Results File: DOC0905.RES

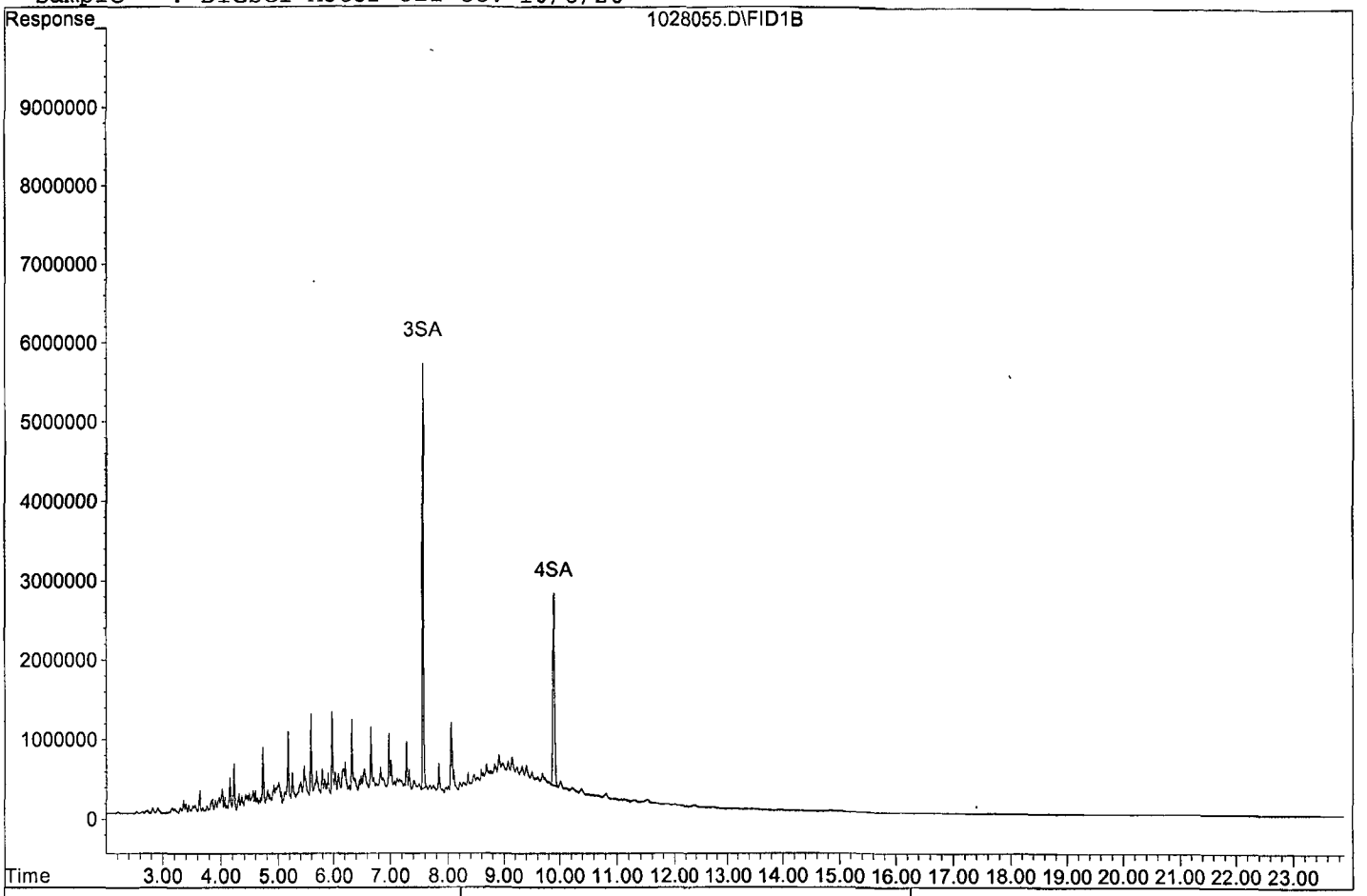
Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

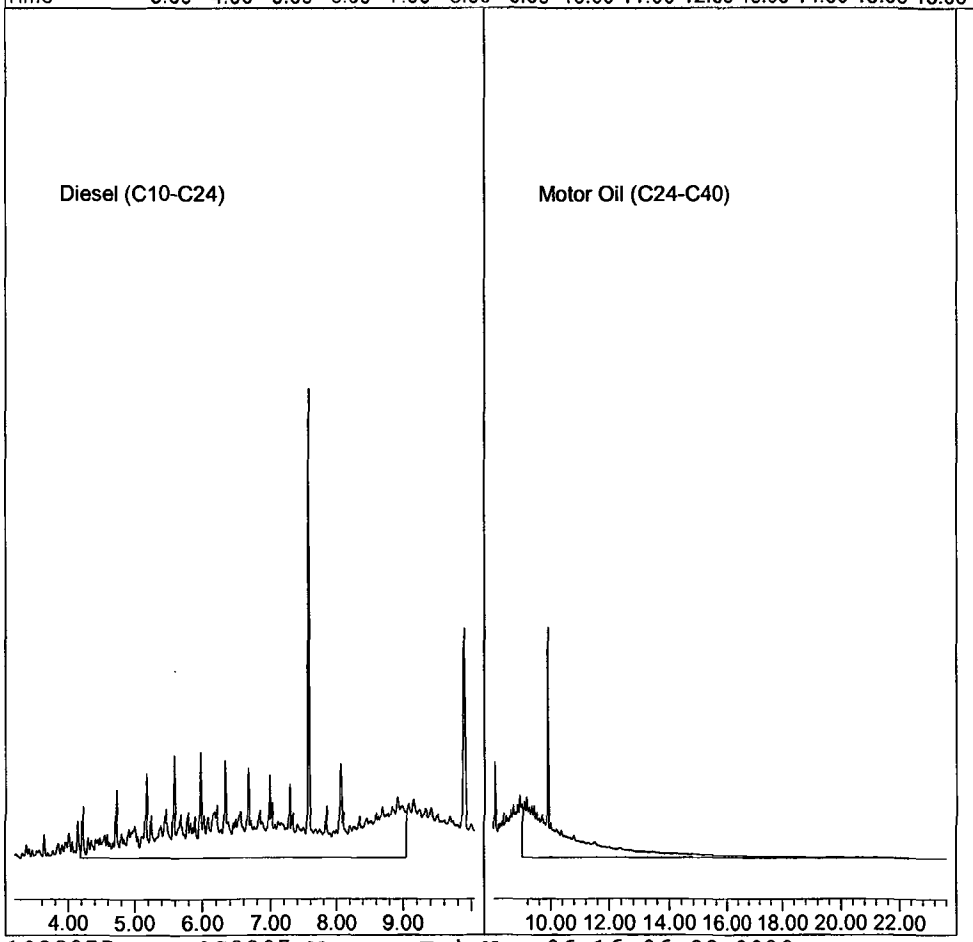
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	67436657	13.352 ppb
Surrogate Spike 12.000		Recovery =	111.27%
4) SA Octacosane(S)	9.89	53105519	12.898 ppb
Surrogate Spike 12.000		Recovery =	107.48%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1105180474	257.125 ppb
2) HBTM Motor Oil (C24-C40)	15.82	720352802	237.930 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028055.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
DEC0914

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/29/20
Instrument: Apollo
Initial Cal. Date: 09/14/20
Data File: 1028056.D

		Compound	MEAN	CCRF	%D	%Drift	
1	SC	Decanoic Acid(S)	1179440	1074540	8.9	SC	
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		Average			8.9		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201028\1028056.D Vial: 56
Acq On : 10-29-20 16:47:16 Operator:
Sample : Decanoic Acid-CCV 7/28/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 4 12:40 2020 Quant Results File: DEC0914.RES

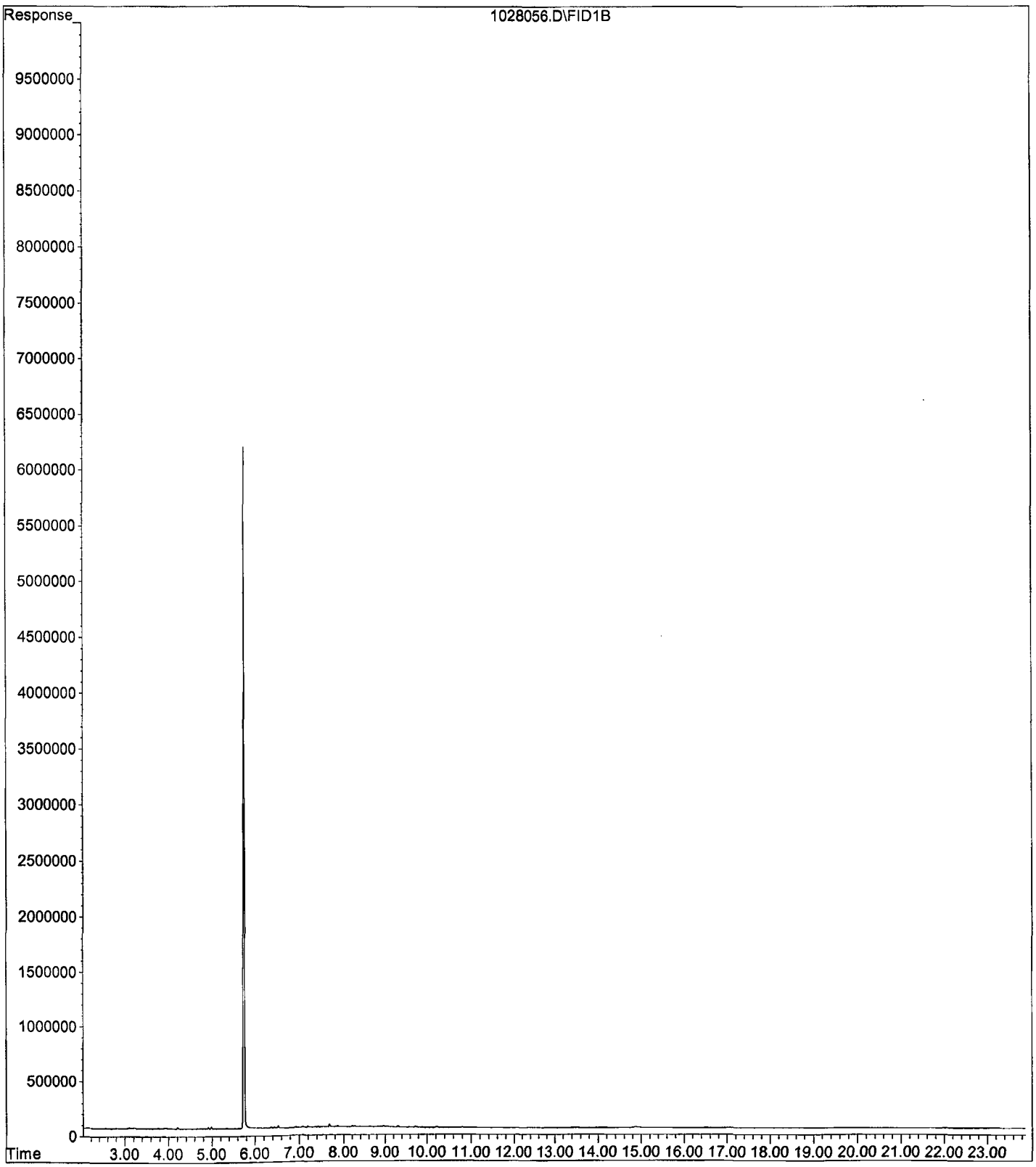
Method : G:\APOLLO\DATA\201028\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 29 11:37:40 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.76	103156174	43.731 ppb
Surrogate Spike 24.000	Recovery	=	182.21%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\201028\1028056.D
Operator :
Acquired : 10-29-20 16:47:16 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-CCV 7/28/20
Misc Info : water
Vial Number: 56



TPH Extractables
DEC0914

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/29/20
Instrument: Apollo
Initial Cal. Date: 09/14/20
Data File: 1028068.D

		Compound	MEAN	CCRF	%D	%Drift	
1	SC	Decanoic Acid(S)	1179440	1076580	8.7	SC	
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35							
36							
37							
38							
39							
40							
		Average			8.7		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201028\1028068.D Vial: 68
Acq On : 10-29-20 22:23:40 Operator:
Sample : Decanoic Acid-CCV 7/28/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 4 12:41 2020 Quant Results File: DEC0914.RES

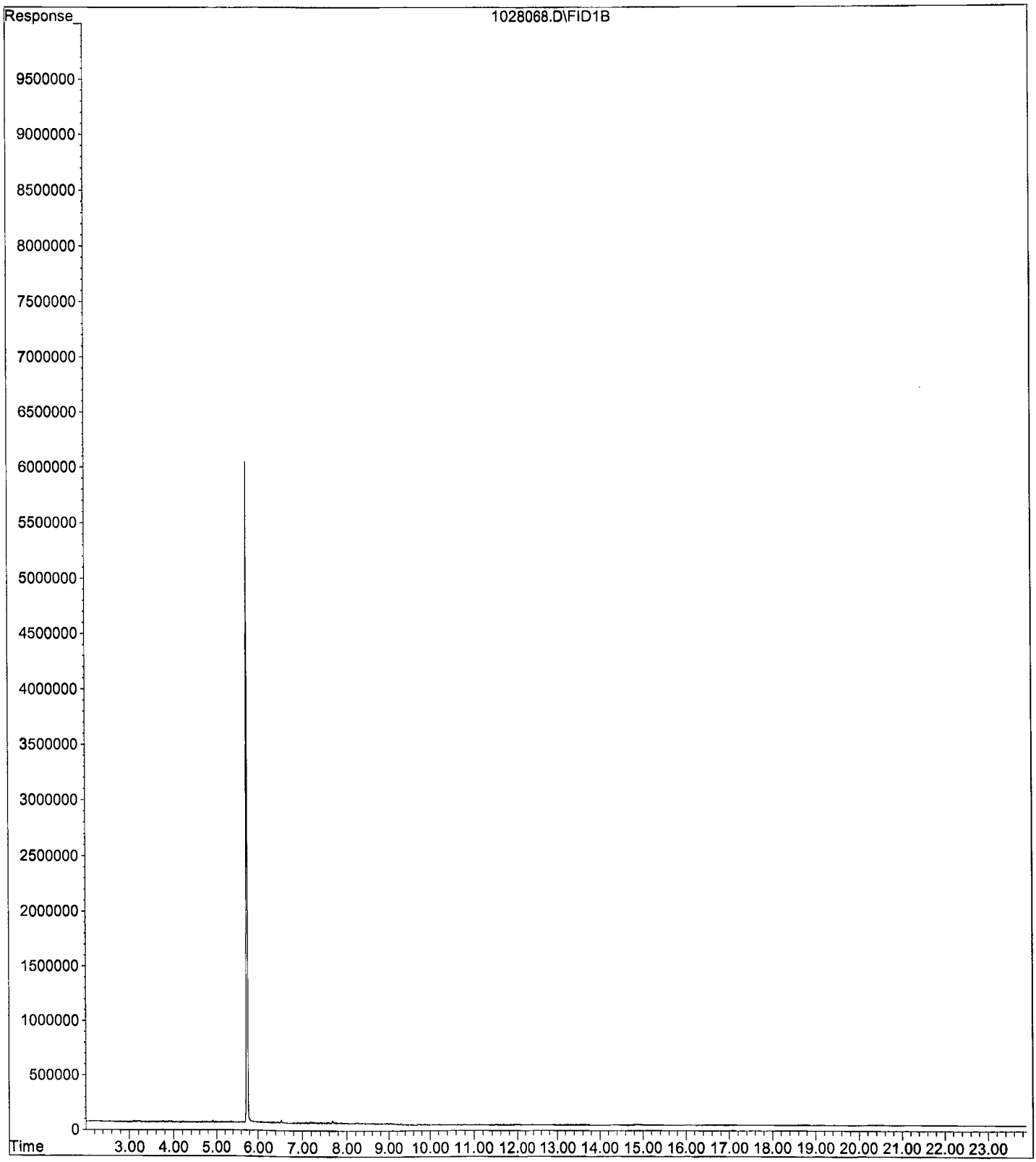
Method : G:\APOLLO\DATA\201028\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 29 11:37:40 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.76	103351498	43.814 ppb
Surrogate Spike 24.000	Recovery =		182.56%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

File : G:\APOLLO\DATA\201028\1028068.D
Operator :
Acquired : 10-29-20 22:23:40 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid-CCV 7/28/20
Misc Info : water
Vial Number: 68



TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/29/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1028069.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2401620	2259050	5.9	HATML	5.1
2	HBTM	Motor Oil (C24-C40)	1513790	1451340	4.1	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2782260	10	SA	
4	SA	Octacosane(S)	2058600	2197360	6.7	SA	
5							
6							
7							
8							
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33							
34							
35							
36							
37							
38							
39							
40							
		Average			6.7		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028069.D Vial: 69
Acq On : 10-29-20 22:51:28 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 3 10:45 2020 Quant Results File: DOC0905.RES

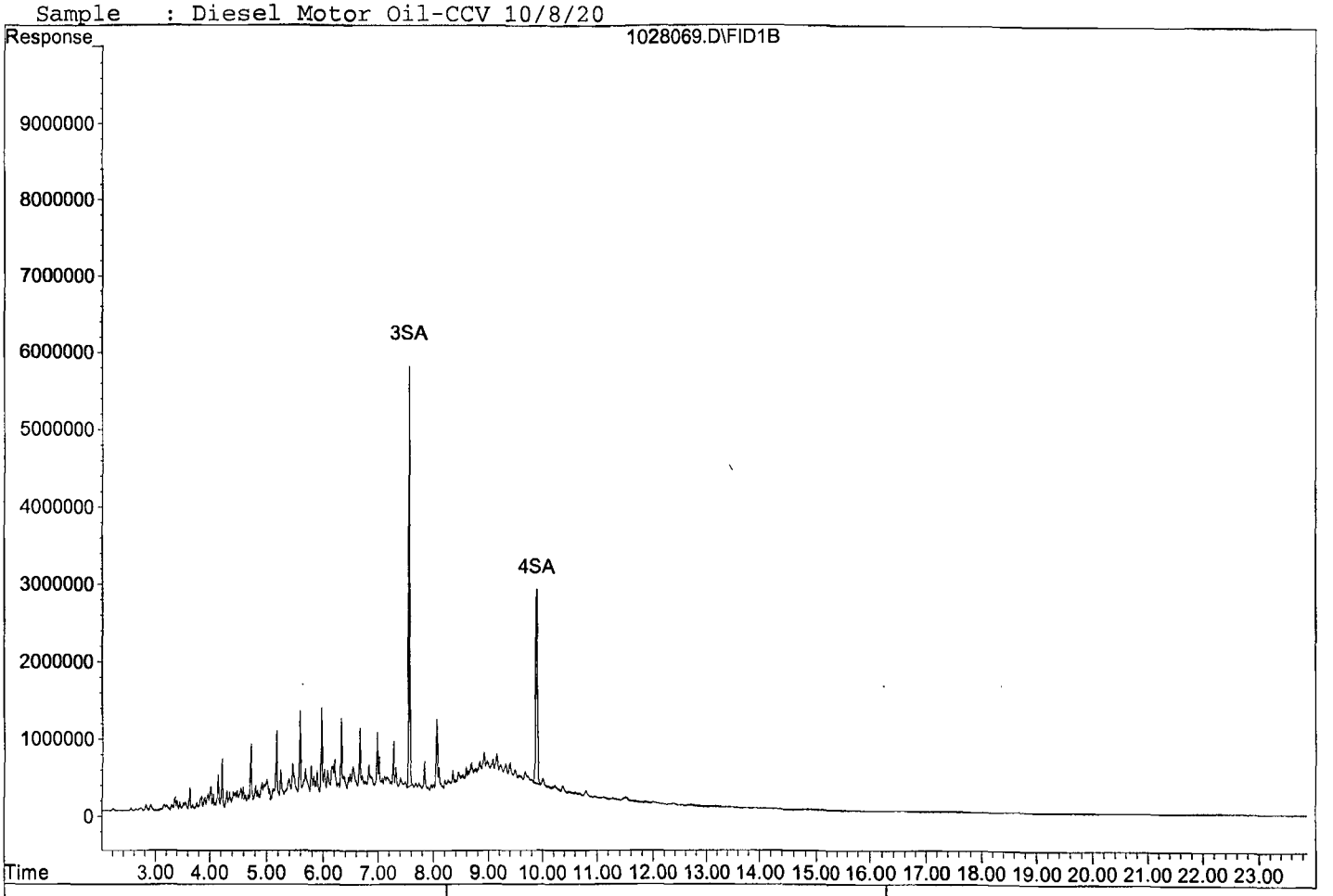
Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

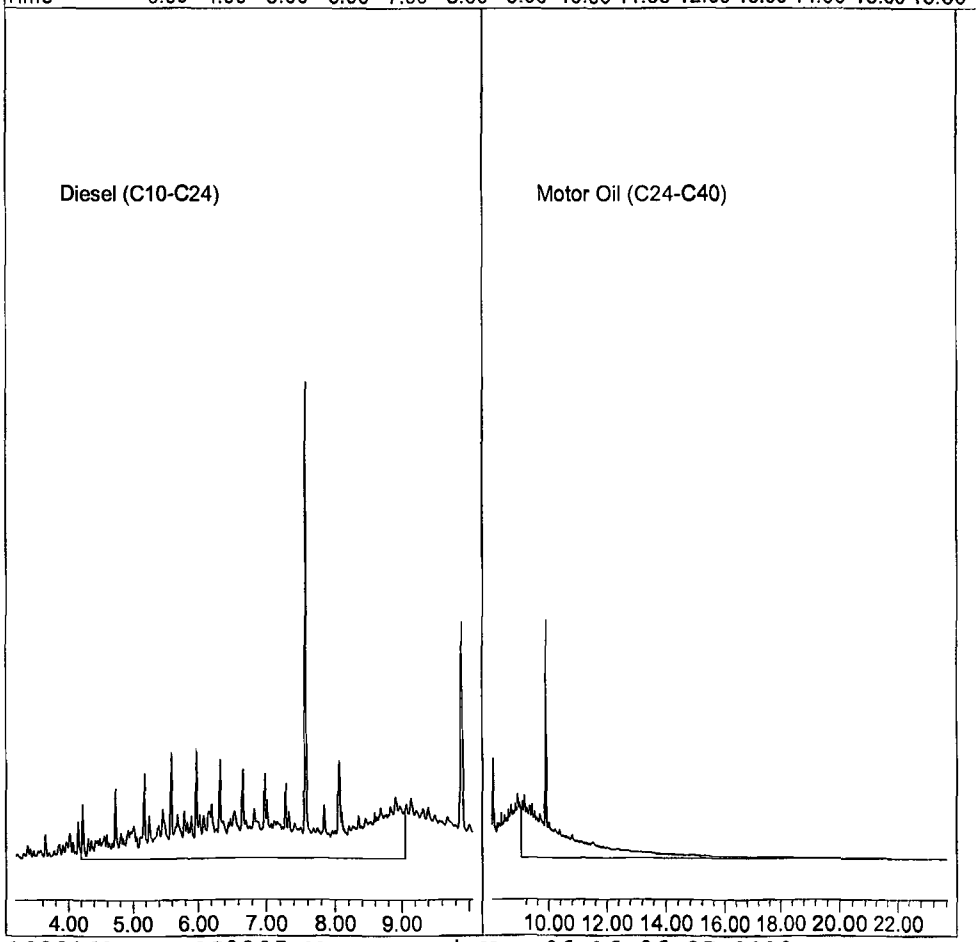
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.56	69556558	13.772 ppb
Surrogate Spike 12.000		Recovery =	114.77%
4) SA Octacosane(S)	9.89	54934059	13.343 ppb
Surrogate Spike 12.000		Recovery =	111.19%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1129522647	262.768 ppb
2) HBTM Motor Oil (C24-C40)	15.82	725668881	239.686 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028069.D
Sample : Diesel Motor Oil-CCV 10/8/20





1028069.D DOC0905.M Fri Nov 06 16:06:37 2020

ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019065.D Vial: 65
Acq On : 10-21-20 12:10:35 Operator:
Sample : BA20268W13 5/800 Inst : Apollo
Misc : Water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 22 7:08 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

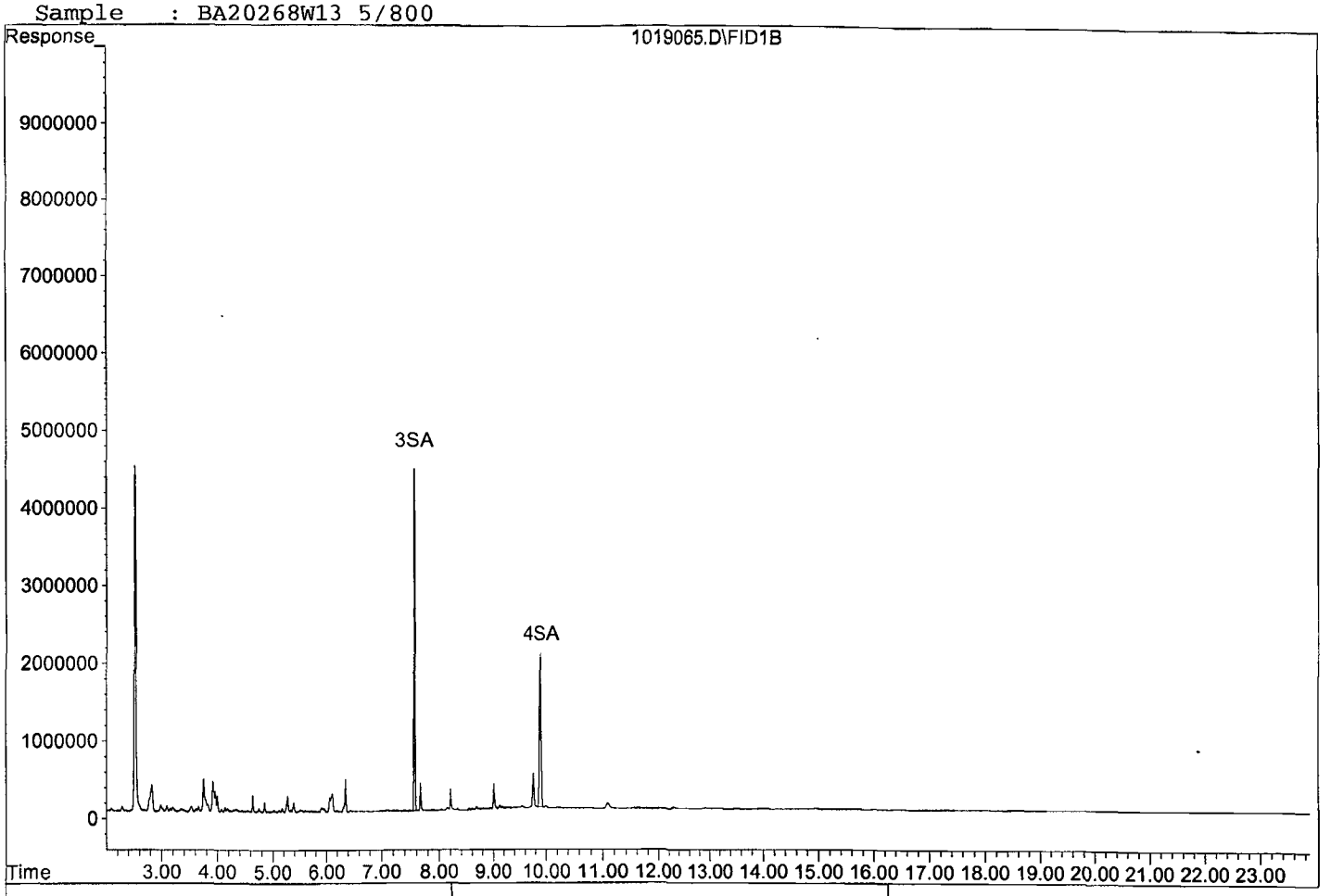
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

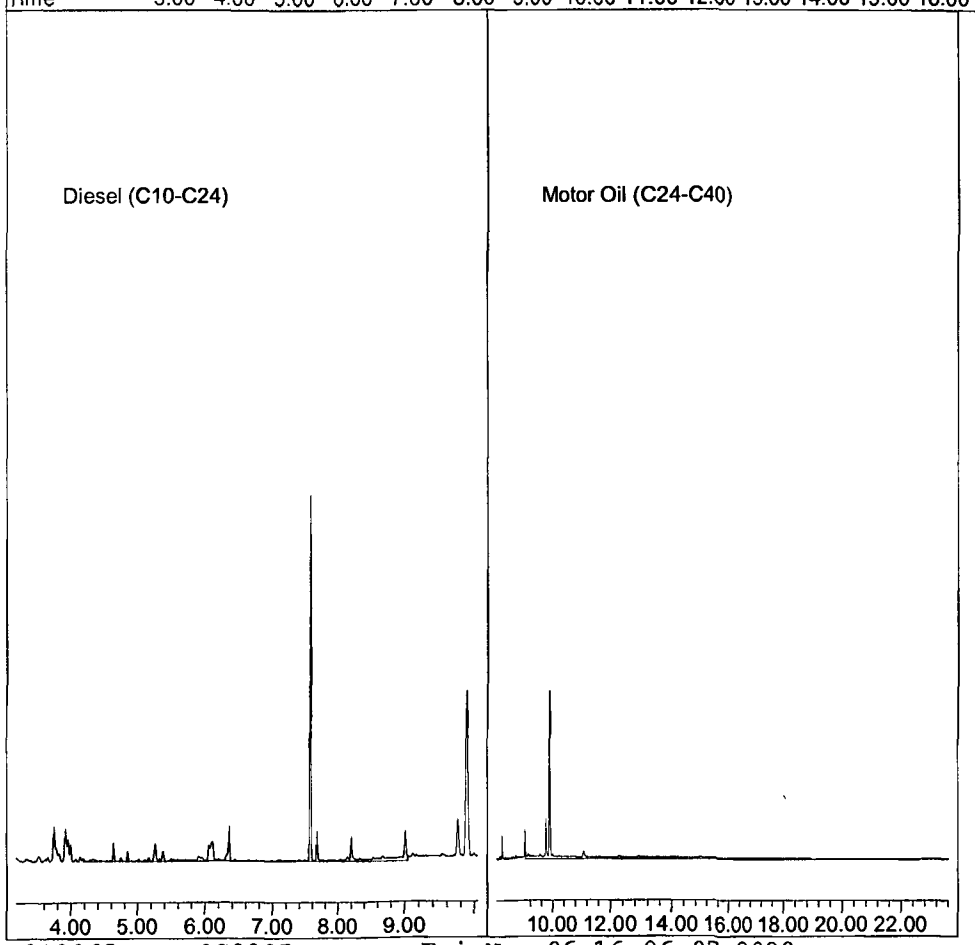
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	50505260	62.498 ppb
Surrogate Spike 75.000	Recovery =		83.33%
4) SA Octacosane(S)	9.89	42767009	64.921 ppb
Surrogate Spike 75.000	Recovery =		86.56%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	85701526	129.804 ppb
2) HBTM Motor Oil (C24-C40)	15.82	156699953	323.484 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019065.D
Sample : BA20268W13 5/800





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019095.D Vial: 95
Acq On : 10-22-20 23:55:45 Operator:
Sample : BA20268W13 5/800 SG Inst : Apollo
Misc : Water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 29 14:52 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	38126669	47.180 ppb
Surrogate Spike 75.000		Recovery =	62.91%
4) SA Octacosane(S)	9.90	32122970	48.763 ppb
Surrogate Spike 75.000		Recovery =	65.02%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	51553378	80.324 ppb
2) HBTM Motor Oil (C24-C40)	15.82	33657565	69.481 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019095.D Vial: 95
Acq On : 10-22-20 23:55:45 Operator:
Sample : BA20268W13 5/800 SG Inst : Apollo
Misc : Water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 29 14:54 2020 Quant Results File: DEC0914.RES

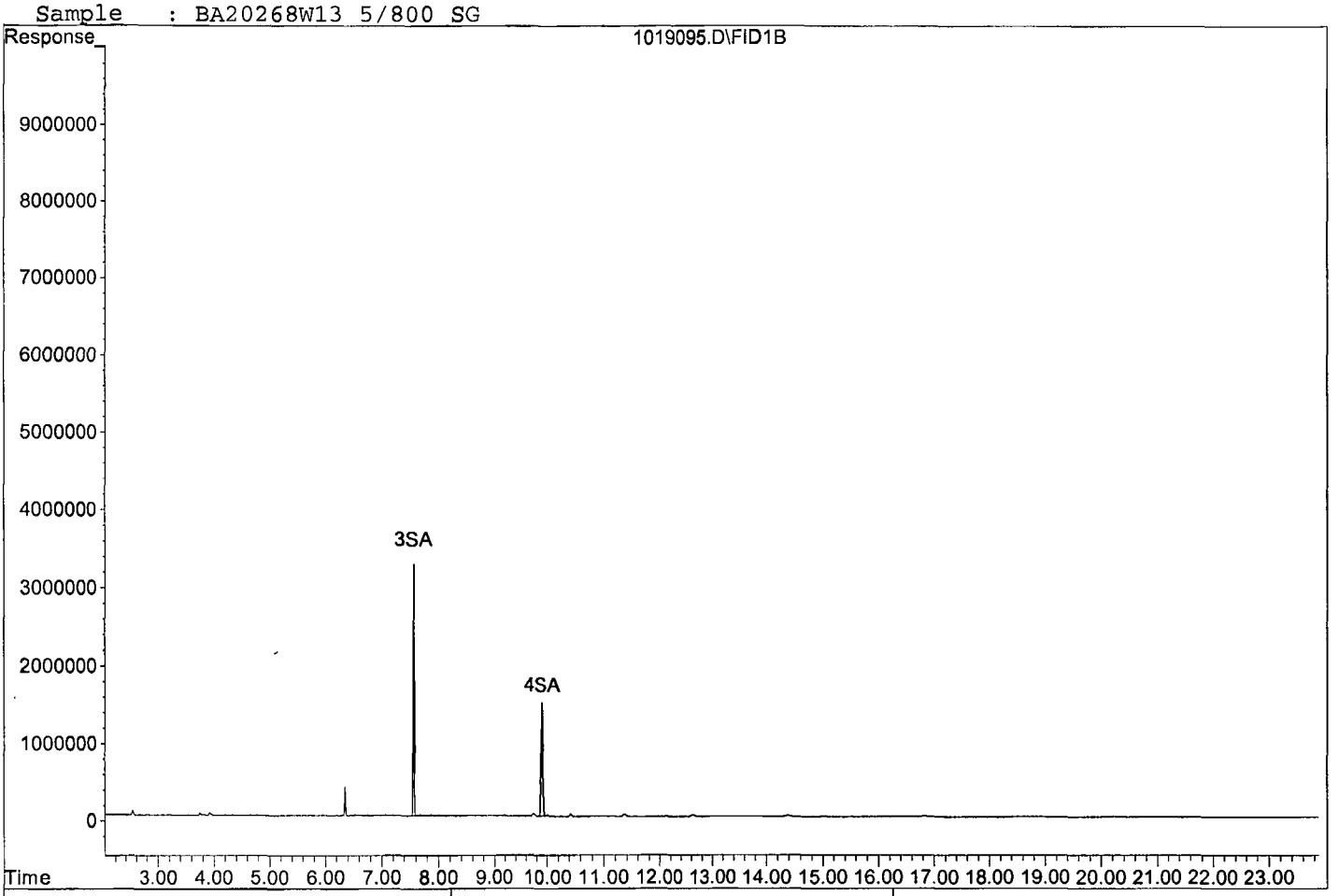
Method : G:\APOLLO\DATA\201028\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 29 11:37:40 2020
Response via : Multiple Level Calibration

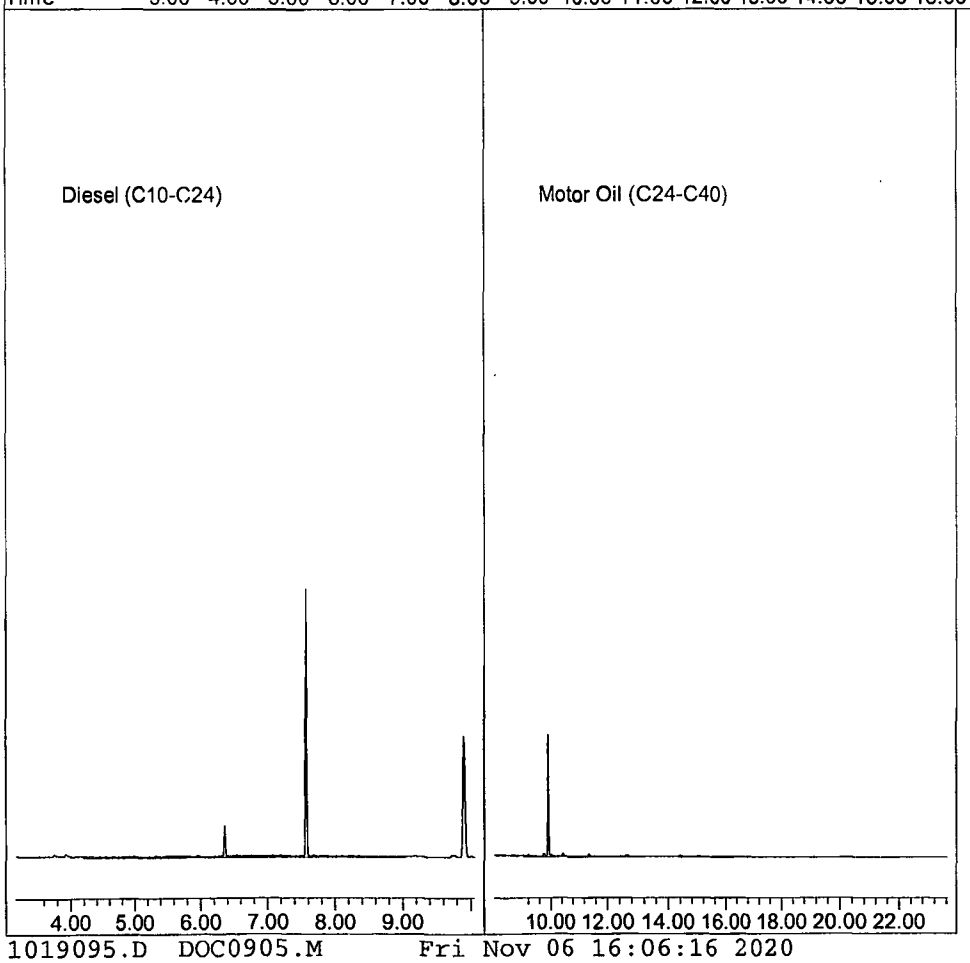
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 150.000		Recovery =	0.00%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019095.D
Sample : BA20268W13 5/800 SG





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019059.D Vial: 59
Acq On : 10-21-20 9:04:25 Operator:
Sample : 201019A BLK 5/800 Inst : Apollo
Misc : Water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 30 9:44 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

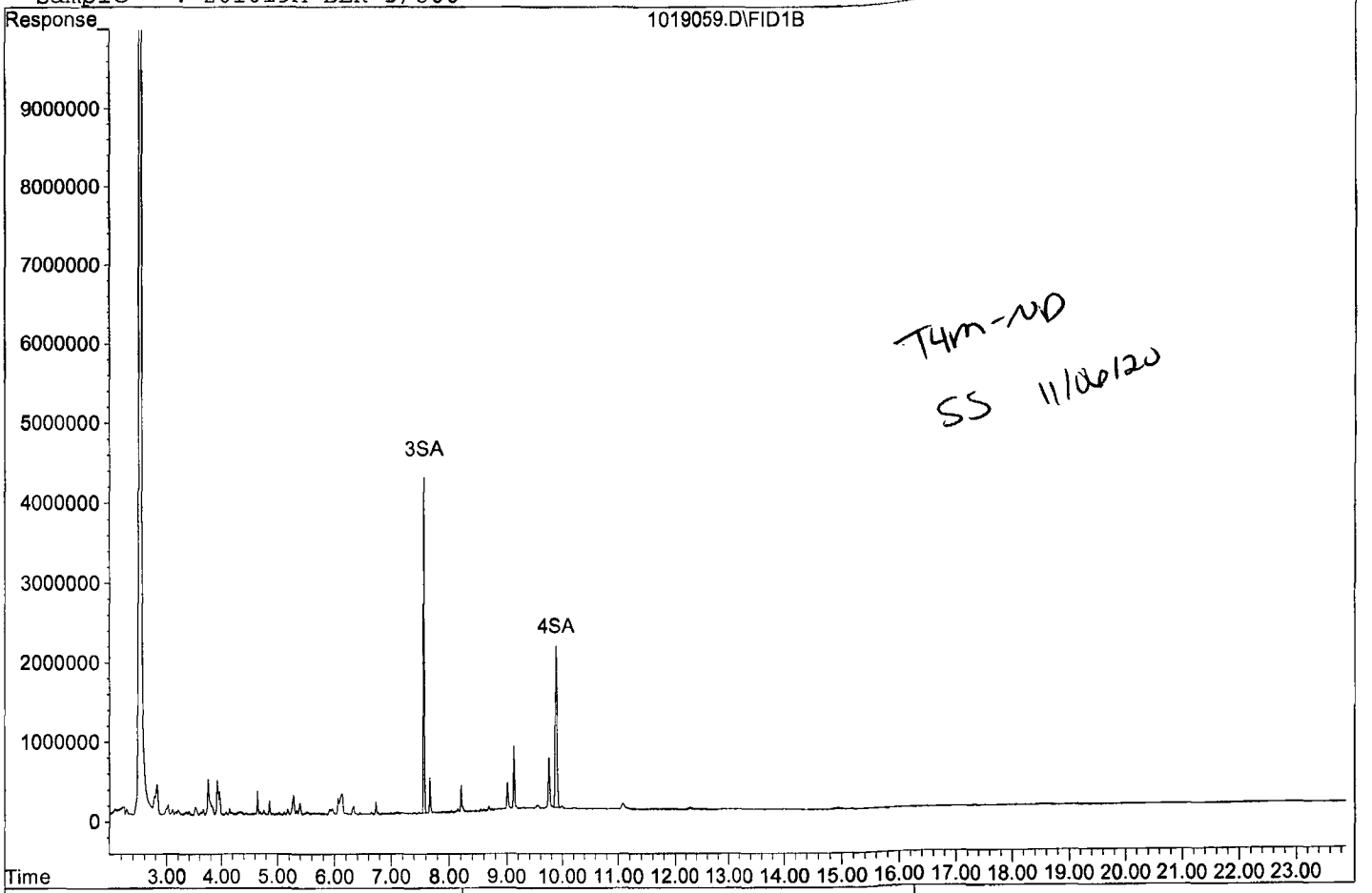
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	50346611	62.301 ppb
Surrogate Spike 75.000	Recovery =		83.07%
4) SA Octacosane(S)	9.89	43445320	65.951 ppb
Surrogate Spike 75.000	Recovery =		87.93%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	118730898	177.664 ppb
2) HBTM Motor Oil (C24-C40)	15.82	259348362	535.387 ppb

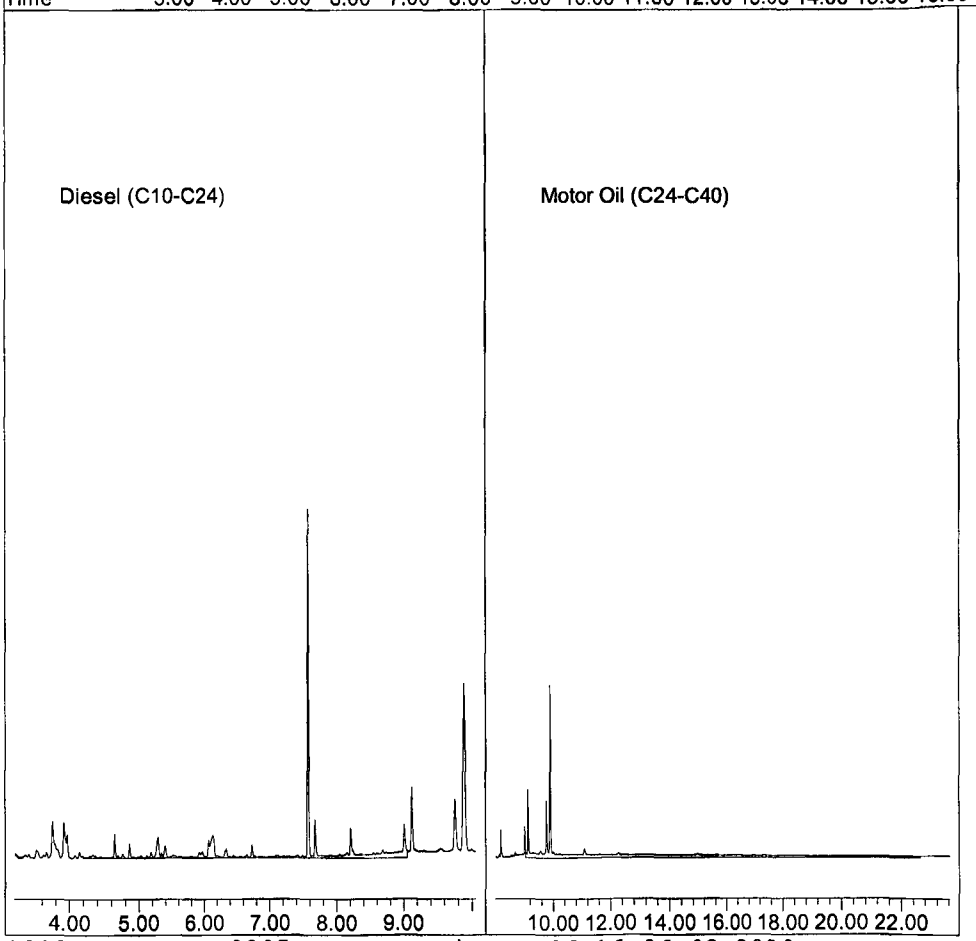
Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019059.D
Sample : 201019A BLK 5/800



TPH-DO
SS 11/06/20



Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028057.D Vial: 57
Acq On : 10-29-20 17:15:25 Operator:
Sample : 201019A BLK 5/800 SG Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Nov 3 10:46 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	48550854	60.079 ppb
Surrogate Spike 75.000	Recovery =		80.11%
4) SA Octacosane(S)	9.89	45418454	68.946 ppb
Surrogate Spike 75.000	Recovery =		91.93%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	33372717	53.980 ppb
2) HBTM Motor Oil (C24-C40)	15.82	23406979	48.320 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028057.D Vial: 57
Acq On : 10-29-20 17:15:25 Operator:
Sample : 201019A BLK 5/800 SG Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Nov 4 12:41 2020 Quant Results File: DEC0914.RES

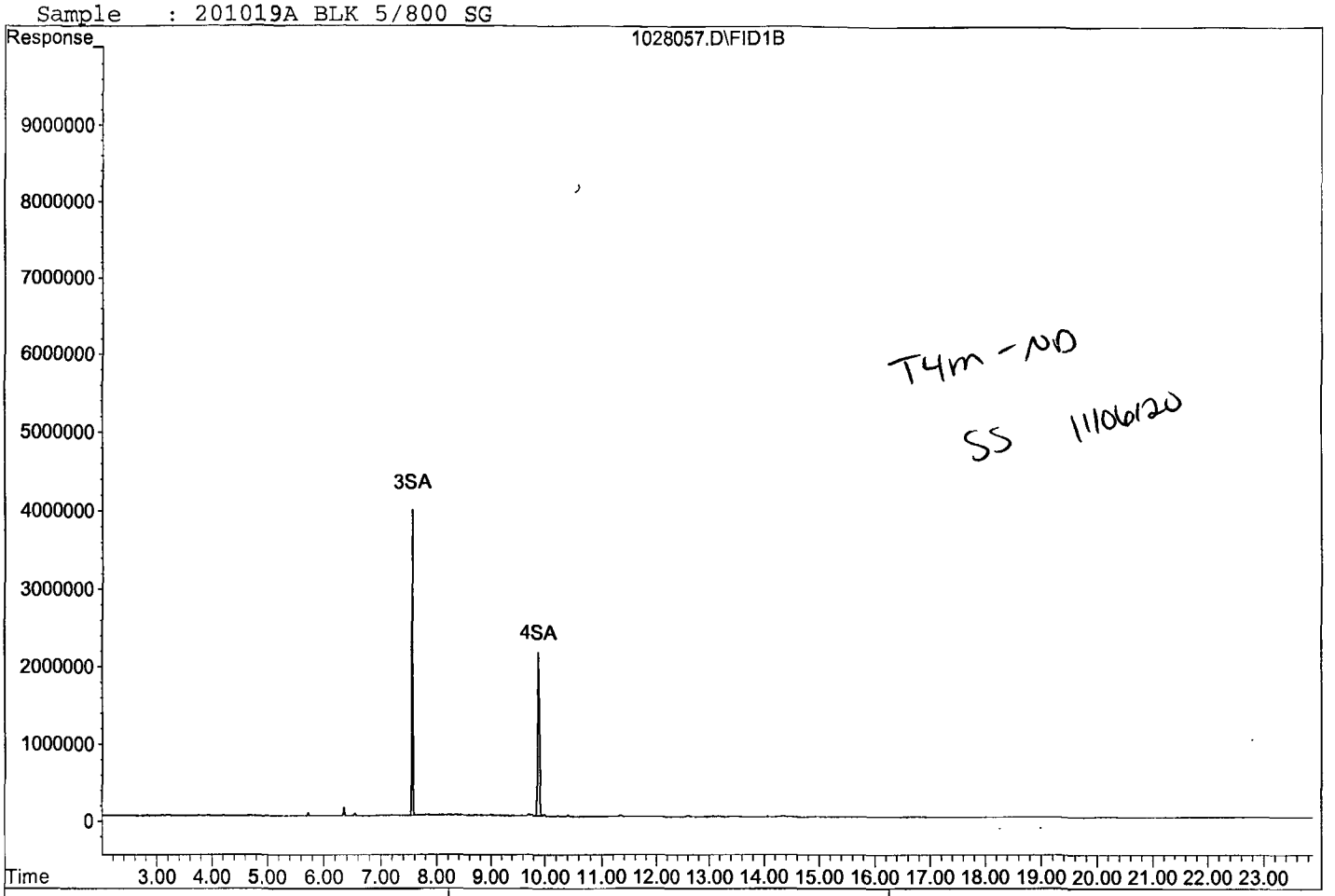
Method : G:\APOLLO\DATA\201028\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 29 11:37:40 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	0.00	0	N.D. ppb
Surrogate Spike 150.000		Recovery =	0.00%
Target Compounds			
Target Compounds			

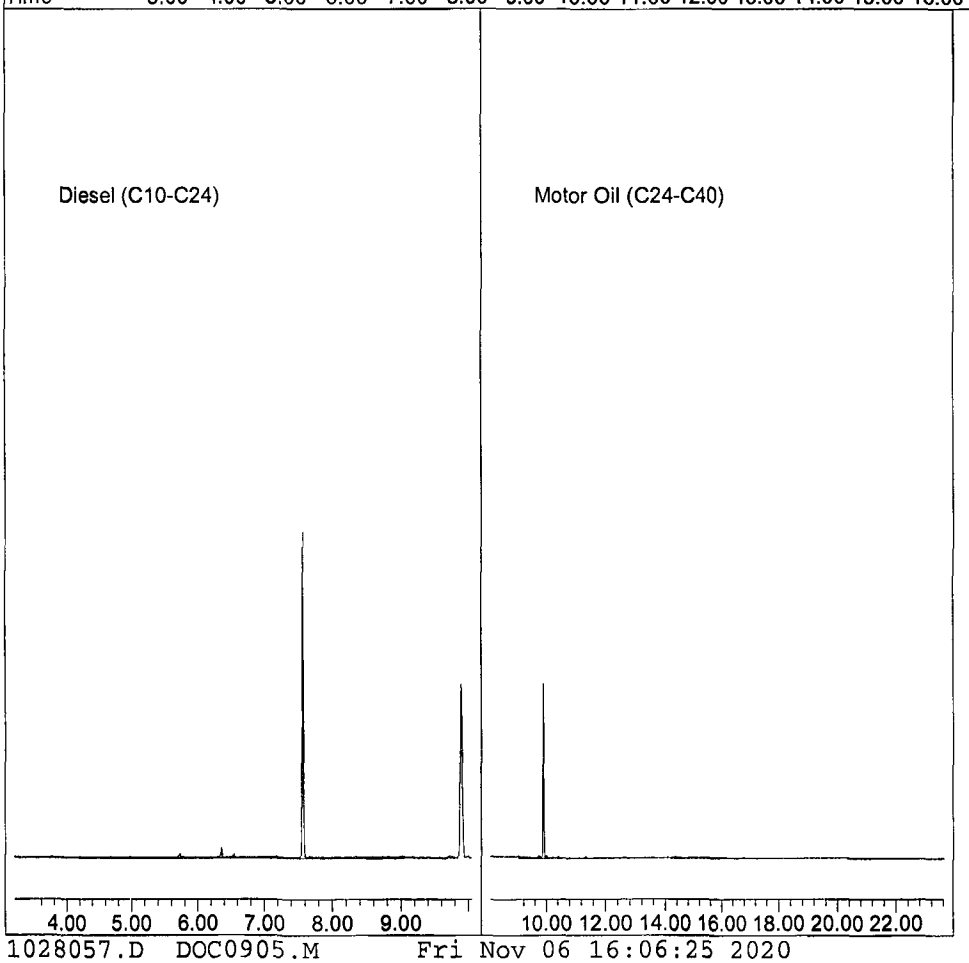
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028057.D
Sample : 201019A BLK 5/800 SG



T4m - ND

SS 11/06/20



1028057.D DOC0905.M Fri Nov 06 16:06:25 2020

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019033.D Vial: 33
Acq On : 10-20-20 16:07:25 Operator:
Sample : 201019A LCS-1 5/800 Inst : Apollo
Misc : Water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 21 6:14 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

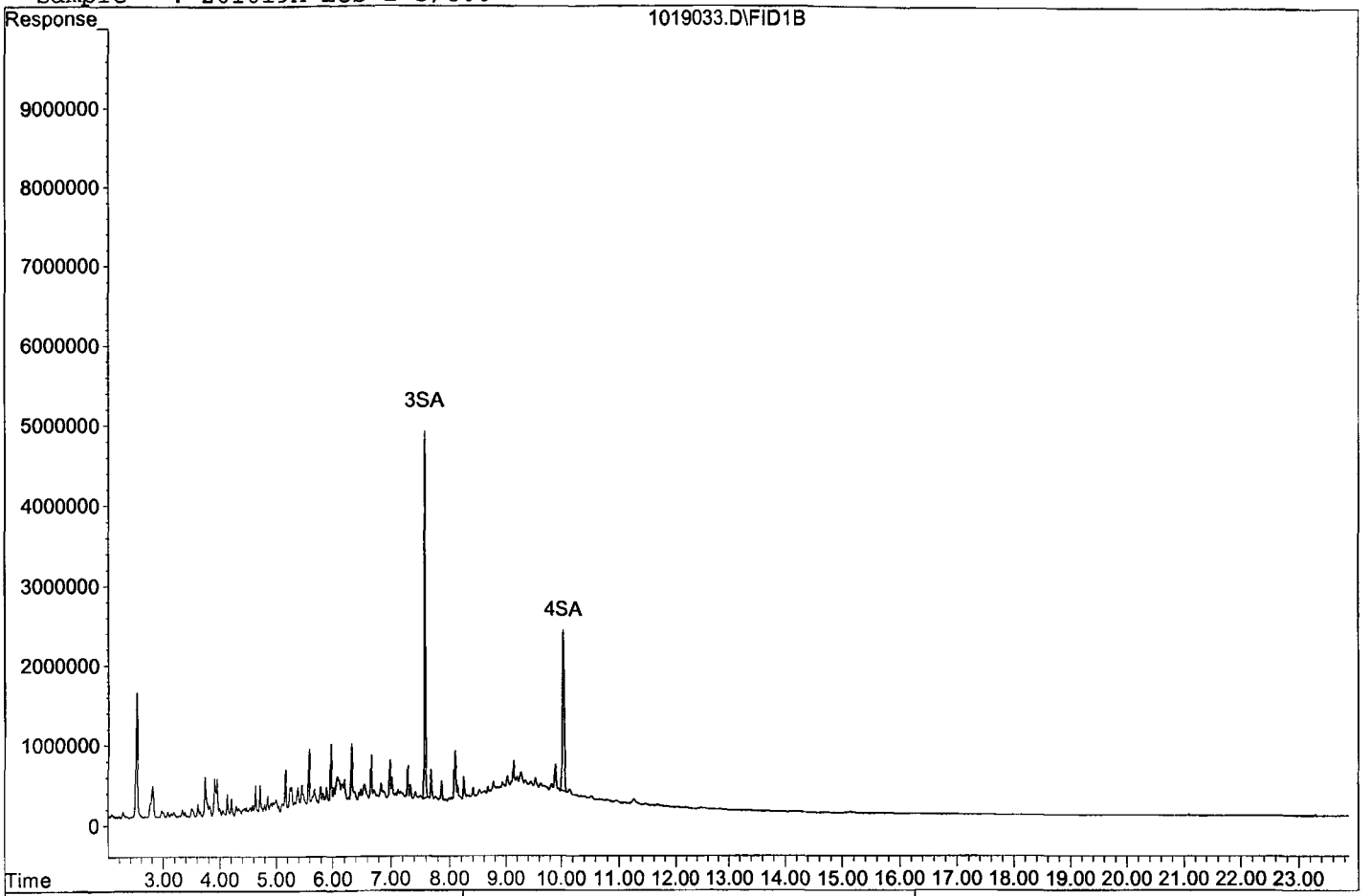
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

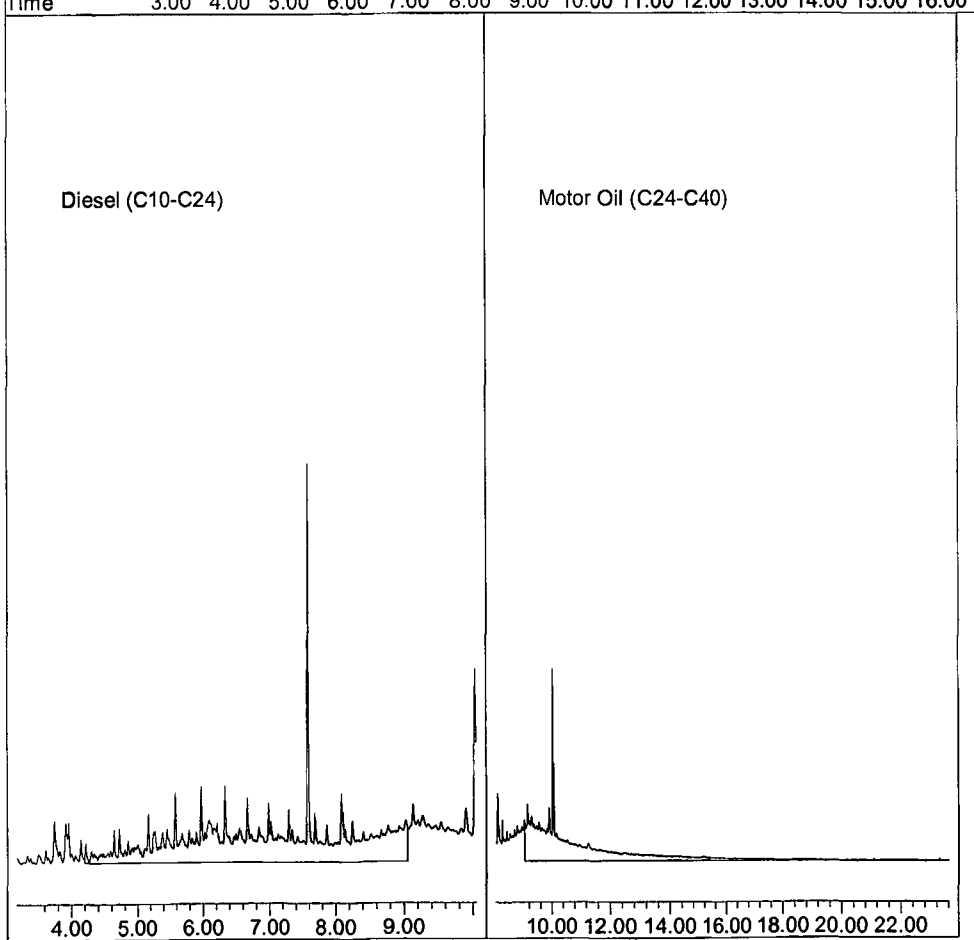
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.58	57014701	70.553 ppb
Surrogate Spike 75.000		Recovery =	94.07%
4) SA Octacosane(S)	10.04	42648908	64.742 ppb
Surrogate Spike 75.000		Recovery =	86.32%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	791829236	1152.983 ppb
2) HBTM Motor Oil (C24-C40)	15.82	637718912	1316.478 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019033.D
Sample : 201019A LCS-1 5/800





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028058.D Vial: 58
Acq On : 10-29-20 17:43:32 Operator:
Sample : 201019A LCS-1 5/800 SG Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Nov 3 10:46 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	51674983	63.945 ppb
Surrogate Spike 75.000	Recovery =		85.26%
4) SA Octacosane(S)	9.89	42193862	64.051 ppb
Surrogate Spike 75.000	Recovery =		85.40%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	591862340	863.231 ppb
2) HBTM Motor Oil (C24-C40)	15.82	499534459	1031.216 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028058.D Vial: 58
Acq On : 10-29-20 17:43:32 Operator:
Sample : 201019A LCS-1 5/800 SG Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Nov 4 12:42 2020 Quant Results File: DEC0914.RES

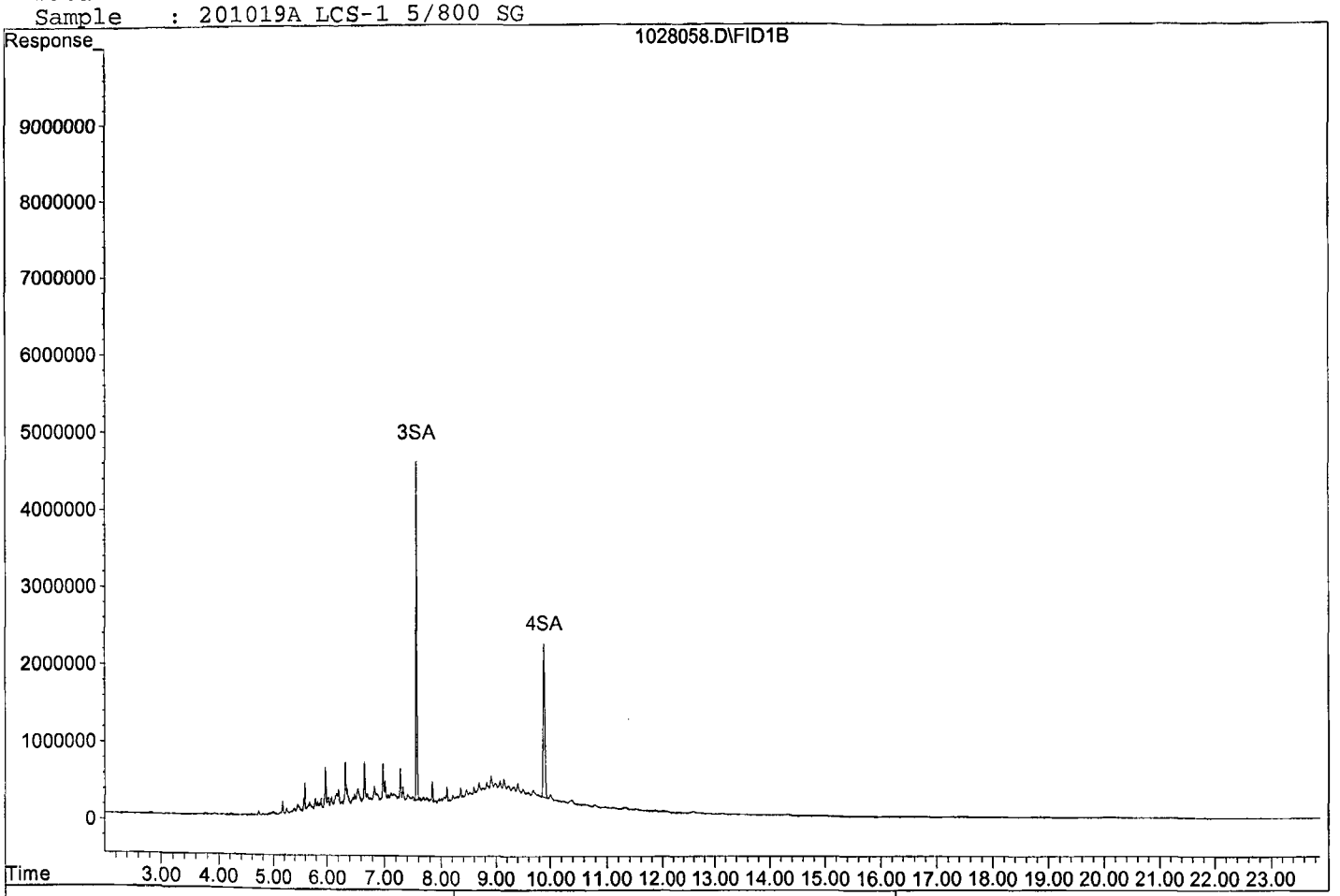
Method : G:\APOLLO\DATA\201028\DEC0914.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Thu Oct 29 11:37:40 2020
Response via : Multiple Level Calibration

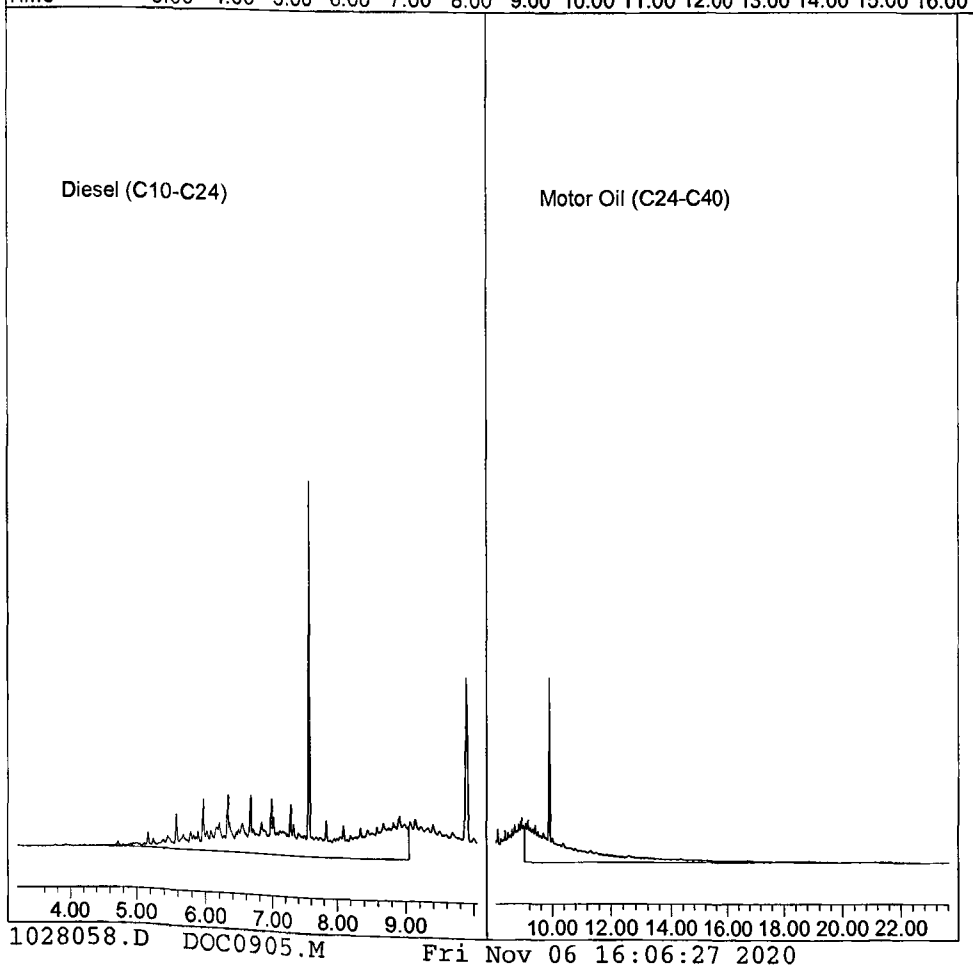
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) SC Decanoic Acid(S)	0.00	0	N.D.	ppb d
Surrogate Spike 150.000	Recovery	=	0.00%	
Target Compounds				
Target Compounds				

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028058.D
Sample : 201019A LCS-1 5/800 SG





1028058.D DOC0905.M Fri Nov 06 16:06:27 2020

THC Surrogate

Prepared: 10/15/20 **Prepared By (Initials): SS**

Expires: 10/15/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	**CL15440-50426**	**10/15/21**	**06/30/25**	N/A	N/A	N/A	600

Diesel / Motor Oil Calibration Curve

Prepared: 09/05/20

Expires: 08/05/21

Prepared By (Initials): SS

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 1	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil -2	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 3	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 4	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 5	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 6	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	100uL	100uL	N/A	2,000

Diesel / Motor Oil Calibration Standard

Prepared: 09/05/20

Prepared By (Initials): SS

Expires: 08/05/21

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	A0154201-50381,50522,50526	08/11/21	11/30/26	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	A0155668-50515,50518,50519	08/11/21	01/31/27	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	CL15440-50421	08/05/21	06/30/25	1666uL			100

Decanoic Acid Standard

Prepared: 09/14/20

Expires: 09/14/21

Prepared By (Initials): SS

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid	O2SI	011729-01-05-5PAK	1,000	**397380-50547**	**09/14/21**	**12/30/21**	600uL	10mL	MC	60

Decanoic Acid Calibration Curve

Prepared: 09/14/20

Expires: 09/14/20

Prepared By (Initials): SS

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid STD	O2SI	Decanoic Acid-1	60	Prepared 09/14/20	09/14/21	N/A	50uL	1mL	MC	3
Decanoic Acid STD	O2SI	Decanoic Acid-2	60	Prepared 09/14/20	09/14/21	N/A	100uL	1mL	MC	6
Decanoic Acid STD	O2SI	Decanoic Acid-3	60	Prepared 09/14/20	09/14/21	N/A	400uL	1mL	MC	24
Decanoic Acid STD	O2SI	Decanoic Acid-4	60	Prepared 09/14/20	09/14/21	N/A	600uL	1mL	MC	36
Decanoic Acid STD	O2SI	Decanoic Acid-5	60	Prepared 09/14/20	09/14/21	N/A	800uL	1mL	MC	48
Decanoic Acid STD	O2SI	Decanoic Acid-6	60	Prepared 09/14/20	09/14/21	N/A	100uL	100uL	N/A	60

Decanoic Acid Spike

Prepared: 09/11/20 **Prepared By (Initials): SS**

Expires: 09/11/21

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid Spike	O2SI	011729-01-05-5PAK	1,000	**397380-50547**	**09/11/21**	**12/30/21**	N/A	N/A	N/A	1,000

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	201019A	Extraction Method	LIQ005	Units	mL

Spiked ID 1	Diesel Motor Oil Mix 9/29/20-9/29/21		Surrogate ID 1	THC Surrogate 10/15/20-10/15/21	
Spiked ID 2	Decanoic Acid Spike 9/11/20-9/11/21		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/19/20 12:05	
Spiked ID 8			Ext. End Time:	10/21/20 10:00	
			GC Requires Extract By:		

pH1	2	10/19/20 11:00	Water Bath Temp 1 °C	37/37 WB1 °C
pH2			Water Bath Temp 2 °C	36/37 WB2
pH3			Water Bath Temp 3 °C	36/34 WB3 °C

Spiked By: DL **Date** 10/19/20 **Witnessed By:** KY **Date** 10/19/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201019A Blk				0.1	1 equip	800 E-HP47	5 E-WB1	2	10/19/20 12:05	*
2	201019A LCS-1		0.040	1	0.1	1 equip	800 E-HP25	5 E-WB1	2	10/19/20 12:05	*
3	BA20023	BA20023W14			0.1	1 equip	800 E-HP26	5 E-WB2	2	10/19/20 12:05	93704*
4	BA20025	BA20025W15			0.1	1 equip	800 E-HP27	5 E-WB1	2	10/19/20 12:05	93704*
5	BA20054 MS-1	BA20054W22	0.040	1	0.1	1 equip	800 E-HP29	5 E-WB2	2	10/19/20 12:05	93719
6	BA20054 MSD-1	BA20054W23	0.040	1	0.1	1 equip	800 E-HP30	5 E-WB3	2	10/19/20 12:05	93719
7	BA20054	BA20054W24			0.1	1 equip	800 E-HP28	5 E-WB1	2	10/19/20 12:05	93719*
8	BA20055	BA20055W10			0.1	1 equip	800 E-HP16	5 E-WB3	2	10/19/20 12:05	93719*
9	BA20057	BA20057W13			0.1	1 equip	800 E-HP15	5 E-WB1	2	10/19/20 12:05	93719*
10	BA20058	BA20058W11			0.1	1 equip	800 E-HP14	5 E-WB2	2	10/19/20 12:05	93719*
11	BA20060	BA20060W15			0.1	1 equip	800 E-HP13	5 E-WB1	2	10/19/20 12:05	93719*
12	BA20062	BA20062W13			0.1	1 equip	800 E-HP12	5 E-WB2	2	10/19/20 12:05	93719*
13	BA20064	BA20064W15			0.1	1 equip	800 E-HP11	5 E-WB1	2	10/19/20 12:05	93719*
14	BA20070	BA20070W08			0.1	1 equip	800 E-HP10	5 E-WB2	2	10/19/20 12:05	93725
15	BA20071 MS-1	BA20071W17	0.040	1	0.1	1 equip	800 E-HP8	5 E-WB3	2	10/19/20 12:05	93725
16	BA20071 MSD-1	BA20071W16	0.040	1	0.1	1 equip	800 E-HP7	5 E-WB1	2	10/19/20 12:05	93725

Solvent and Lot#	
1+1 HCL Amber Liter	9/28/20
PH Strips	HC904495
Dicholormethane	60127
Filter Paper	400178
B. Sodium Sulfate	2019070279
Silica Gel (*)	050627T

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	SS
Date	10/20/20
Time	15:00
Refrigerator	HOBART

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL,DS
Concentration	DS,MP

Modified	11/05/20 3:04:59 PM

Reviewed By: SS **Date** 11/05/20

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	201019A	Extraction Method	LIQ005	Units	mL

Spiked ID 1	Diesel Motor Oil Mix 9/29/20-9/29/21		Surrogate ID 1	THC Surrogate 10/15/20-10/15/21	
Spiked ID 2	Decanoic Acid Spike 9/11/20-9/11/21		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/19/20 12:05	
Spiked ID 8			Ext. End Time:	10/21/20 10:00	
			GC Requires Extract By:		

pH1	2	10/19/20 11:00	Water Bath Temp 1 °C	37/37 WB1 °C
pH2			Water Bath Temp 2 °C	36/37 WB2
pH3			Water Bath Temp 3 °C	36/34 WB3 °C

Spiked By: DL **Date** 10/19/20 **Witnessed By:** KY **Date** 10/19/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	BA20071	BA20071W18			0.1	1	800	5	2	10/19/20 12:05	93725
						equip	E-HP9 E-WB3				
18	BA20184	BA20184W15			0.1	1	800	5	2	10/19/20 12:05	93740*
						equip	E-HP6 E-WB2				
19	BA20186	BA20186W13			0.1	1	800	5	2	10/19/20 12:05	93740*
						equip	E-HP26 E-WB2				
20	BA20188	BA20188W13			0.1	1	800	5	2	10/19/20 12:05	93740*
						equip	E-HP27 E-WB1				
21	BA20190	BA20190W16			0.1	1	800	5	2	10/19/20 12:05	93740*
						equip	E-HP28 E-WB1				
22	BA20268	BA20268W13			0.1	1	800	5	2	10/19/20 12:05	93765*
						equip	E-HP29 E-WB2				

Solvent and Lot#	
1+1 HCL Amber Liter	9/28/20
PH Strips	HC904495
Dicholormethane	60127
Filter Paper	400178
B. Sodium Sulfate	2019070279
Silica Gel (*)	050627T

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	SS
Date	
Time	
Refrigerator	HOBART

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL,DS
Concentration	DS,MP

Modified	11/05/20 3:04:59 PM

Reviewed By: SS **Date** 11/05/20

Injection Log

Directory: G:\APOLLO\DATA\200905\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	7	905007.D	1	Diesel Motor Oil-1 9/5/20	Water	9-5-20 17:04:35
2	8	905008.D	1	Diesel Motor Oil-2 9/5/20	Water	9-5-20 17:32:40
3	9	905009.D	1	Diesel Motor Oil-3 9/5/20	Water	9-5-20 18:00:45
4	10	905010.D	1	Diesel Motor Oil-4 9/5/20	Water	9-5-20 18:28:54
5	11	905011.D	1	Diesel Motor Oil-5 9/5/20	Water	9-5-20 18:56:54
6	12	905012.D	1	Diesel Motor Oil-6 9/5/20	Water	9-5-20 19:24:55
7	13	905013.D	1	Diesel Motor Oil-SS 7/21/20	Water	9-5-20 19:52:52
8	4	914004.D	1	Decanoic Acid-1 9/14/20	water	9-14-20 10:24:43
9	5	914005.D	1	Decanoic Acid-2 9/14/20	water	9-14-20 10:52:47
10	6	914006.D	1	Decanoic Acid-3 9/14/20	water	9-14-20 11:20:51
11	7	914007.D	1	Decanoic Acid-4 9/14/20	water	9-14-20 11:48:52
12	8	914008.D	1	Decanoic Acid-5 9/14/20	water	9-14-20 12:16:53
13	9	914009.D	1	Decanoic Acid-6 9/14/20	water	9-14-20 12:44:57
14	32	1019032.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-20-20 12:52:56
15	33	1019033.D	6.25	201019A LCS-1 5/800	Water	10-20-20 16:07:25
16	42	1019042.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-20-20 20:21:12
17	58	1019058.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-21-20 8:36:29
18	59	1019059.D	6.25	201019A BLK 5/800	Water	10-21-20 9:04:25
19	65	1019065.D	6.25	BA20268W13 5/800	Water	10-21-20 12:10:35
20	66	1019066.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-21-20 12:38:41
21	89	1019089.D	1	Decanoic Acid-CCV 7/28/20	Water	10-22-20 21:07:25
22	90	1019090.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-22-20 21:35:28
23	95	1019095.D	6.25	BA20268W13 5/800 SG	Water	10-22-20 23:55:45
24	96	1019096.D	1	Decanoic Acid-CCV 7/28/20	Water	10-23-20 0:23:40
25	97	1019097.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-23-20 0:51:37
26	55	1028055.D	1	Diesel Motor Oil-CCV 10/8/20	water	10-29-20 16:19:06
27	56	1028056.D	1	Decanoic Acid-CCV 7/28/20	water	10-29-20 16:47:16
28	57	1028057.D	6.25	201019A BLK 5/800 SG	water	10-29-20 17:15:25
29	58	1028058.D	6.25	201019A LCS-1 5/800 SG	water	10-29-20 17:43:32
30	68	1028068.D	1	Decanoic Acid-CCV 7/28/20	water	10-29-20 22:23:40
31	69	1028069.D	1	Diesel Motor Oil-CCV 10/8/20	water	10-29-20 22:51:28

ORGANICS

Calibration Data

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/09/20
Matrix: Instrument: Yoda
Initials: MA/TM

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type	r^2	Q	MRF
			1009Y003.D	1009Y004.D	1009Y005.D	1009Y006.D	1009Y007.D	1009Y008.D	1009Y009.D	1009Y010.D	1009Y011.D							
1	I	1,4-dichlorobenzene-D4(IS)	ISTD															
2		1,4-Dioxane		0.4293	0.2691	0.3927	0.3603	0.3512	0.3539	0.4027	0.3108		0.36	14				
3	TM	n-Nitrosodimethylamine		0.4601	0.4992	0.6181	0.5207	0.5543	0.5902	0.6145	0.5794		0.55	10	TM			
4	TM	Pyridine		1.424	1.491	1.667	1.446	1.524	1.596	1.687	1.573		1.6	6.3	TM			
5	S	2-Fluorophenol (S)		1.455	1.483	1.631	1.495	1.498	1.551	1.635	1.654		1.6	5.1	S			
6	S	Phenol-D6 (S)		1.797	1.868	2.054	1.867	1.902	1.969	2.087	2.093		2.0	5.8	S			
7	*TM	Phenol		1.996	2.089	2.364	2.187	2.245	2.303	2.368	2.356		2.2	6.2	*TM			0.800
8	TM	Aniline			2.127	2.017	1.586	1.710	1.599	1.490			1.8	15	TM			
9	TM	Bis (2-chloroethyl) ether		0.8751	0.8838	0.9222	0.8720	0.8863	0.9151	0.9548	0.9270		0.90	3.3	TM			0.700
10	TM	2-Chlorophenol		1.797	1.850	1.900	1.784	1.819	1.894	1.944	1.920		1.9	3.2	TM			0.800
11	TM	1,3-DCB		1.959	2.030	2.076	1.862	1.999	1.964	2.061	1.983		2.0	3.4	TM			
12	*TM	1,4-DCB		2.009	2.071	2.127	1.902	2.014	2.011	2.092	2.038		2.0	3.3	*TM			
13	TM	Benzyl alcohol		0.9932	1.034	1.074	0.9800	1.024	1.055	1.089	1.088		1.0	4.0	TM			
14	TM	1,2-DCB		1.897	1.944	1.988	1.783	1.882	1.917	1.950	1.922		1.9	3.2	TM			
15	TM	2-Methylphenol		1.326	1.372	1.416	1.291	1.363	1.390	1.443	1.433		1.4	3.8	TM			0.700
16	TM	Bis (2-chloroisopropyl) ether		1.199	1.203	1.247	1.119	1.150	1.170	1.210	1.190		1.2	3.3	TM			0.010
17	TM	Acetophenone		2.283	2.370	2.477	2.256	2.375	2.440	2.512	2.533		2.4	4.3	TM			0.010
18	TM	3&4-Methylphenol		1.796	1.847	1.938	1.787	1.935	1.958	2.035	2.027		1.9	5.0	TM			0.600
19	**TM	n-Nitrosodi-n-propylamine		1.157	1.201	1.268	1.164	1.194	1.229	1.262	1.219		1.2	3.4	**TM			0.500
20	TM	Hexachloroethane		0.6621	0.7138	0.7479	0.6836	0.7204	0.7221	0.7537	0.7274		0.72	4.3	TM			0.300
21	I	Napthalene-D8(IS)	ISTD															
22	S	Nitrobenzene-D5(S)		0.3767	0.4074	0.4318	0.4120	0.4200	0.4234	0.4403	0.4357		0.42	4.8	S			
23	TM	Nitrobenzene		0.4108	0.4279	0.4399	0.4112	0.4365	0.4323	0.4523	0.4361		0.43	3.3	TM			0.200
24	TM	Isophorone		0.6918	0.7326	0.7384	0.7019	0.7582	0.7470	0.7728	0.7603		0.74	3.9	TM			0.400
25	*TM	2-Nitrophenol		0.2358	0.2392	0.2587	0.2505	0.2695	0.2709	0.2804	0.2707		0.26	6.3	*TM			0.100
26	TM	2,4-Dimethylphenol		0.3810	0.3932	0.4195	0.3865	0.4122	0.4134	0.4182	0.4186		0.41	3.9	TM			0.200
27	TML	Benzoic acid			0.1193	0.1498	0.2422	0.2790	0.2926	0.2859			0.23	33	TM	0.993		
28	TM	Bis (2-chloroethoxy) methane		0.4454	0.4740	0.4680	0.4452	0.4729	0.4766	0.4874	0.4781		0.47	3.3	TM			0.300
29	*TM	2,4-Dichlorophenol		0.3839	0.3979	0.4018	0.3824	0.4047	0.4130	0.4248	0.4176		0.40	3.8	*TM			0.200
30	TM	1,2,4-Trichlorobenzene		0.4381	0.4478	0.4551	0.4234	0.4545	0.4539	0.4605	0.4619		0.45	2.9	TM			
31	TM	3,4-Dimethylphenol		0.5549	0.5582	0.5619	0.5484	0.5620	0.5782	0.5937	0.5729		0.57	2.6	TM			
32	TM	Naphthalene		1.272	1.316	1.315	1.246	1.324	1.312	1.367	1.341		1.3	2.9	TM			0.700
33	TM	4-Chloroaniline		0.5356	0.5604	0.5691	0.5429	0.5561	0.5720	0.5577	0.5208		0.55	3.2	TM			0.010
34	TM	2,6-Dichlorophenol		0.3741	0.3930	0.3912	0.3802	0.3944	0.4109	0.4193	0.4162		0.40	4.2	TM			
35	TM	Hexachloropropene		0.2941	0.3053	0.3231	0.3090	0.3436	0.3393	0.3505	0.3515		0.33	6.8	TM			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/09/20
Matrix: Instrument: Yoda Initials:

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q	
36	*TM	Hexachlorobutadiene		0.2686	0.2726	0.2757	0.2652	0.2782	0.2804	0.2850	0.2824		0.28	2.5	*TM			0.010
37	TM	Caprolactum		0.1172	0.1242	0.1338	0.1295	0.1320	0.1375	0.1387	0.1377		0.13	5.7	TM			0.010
38	*TM	4-Chloro-3-methylphenol		0.3876	0.4049	0.4120	0.3888	0.4162	0.4246	0.4340	0.4291		0.41	4.2	*TM			0.200
39	TM	2-Methylnaphthalene		0.8441	0.8754	0.8763	0.8333	0.8987	0.8935	0.9456	0.9148		0.89	4.1	TM			0.400
40	TM	1-Methylnaphthalene		0.8711	0.9149	0.9056	0.8746	0.9322	0.9362	0.9541	0.9452		0.92	3.4	TM			
41	I	Acenaphthene-D10(IS)	ISTD															
42	**TM	Hexachlorocyclopentadiene		0.4926	0.5473	0.5729	0.5151	0.5557	0.6434	0.4714	0.6605		0.56	12	**TM			0.050
43	TM	1,2,4,5-Tetrachlorobenzene		0.7596	0.7959	0.7832	0.7668	0.8143	0.8333	0.8326	0.8706		0.81	4.7	TM			0.010
44	*TM	2,4,6-Trichlorophenol		0.4985	0.5116	0.5220	0.5159	0.5513	0.5494	0.5668	0.5702		0.54	5.1	*TM			0.200
45	TM	2,4,5-Trichlorophenol		0.5301	0.5339	0.5572	0.5423	0.5568	0.5860	0.5824	0.6014		0.56	4.7	TM			0.200
46	S	2-Fluorobiphenyl(S)		1.653	1.647	1.683	1.637	1.666	1.701	1.734	1.765		1.7	2.7	S			
47	TM	1,1'-Biphenyl		1.884	1.868	1.885	1.850	1.903	1.984	1.962	2.056		1.9	3.7	TM			0.010
48	TM	2-Chloronaphthalene		1.488	1.505	1.490	1.465	1.531	1.552	1.546	1.597		1.5	2.8	TM			0.800
49	TM	2-Nitroaniline		0.3404	0.3547	0.3797	0.3680	0.3869	0.3939	0.4013	0.4122		0.38	6.4	TM			0.010
50	TM	Dimethyl phthalate		1.778	1.792	1.808	1.739	1.813	1.845	1.896	1.896		1.8	3.0	TM			0.010
51	TM	2,6-DNT		0.3595	0.3691	0.3940	0.3898	0.4194	0.4362	0.4303	0.4376		0.40	7.6	TM			0.200
52	TM	Acenaphthylene		2.272	2.270	2.301	2.239	2.369	2.346	2.427	2.452		2.3	3.3	TM			0.900
53	TM	3-Nitroaniline		0.4354	0.4701	0.4891	0.4850	0.5162	0.5277	0.5306	0.5569		0.50	7.8	TM			0.010
54	*TM	Acenaphthene		1.513	1.515	1.526	1.475	1.601	1.634	1.562	1.583		1.6	3.4	*TM			0.900
55	**TML	2,4-Dinitrophenol				0.1026	0.1597	0.1980	0.2280	0.2394	0.2642		0.20	30	**TM	0.993		0.010
56	**TM	4-Nitrophenol			0.2263	0.2559	0.2676	0.2931	0.3073	0.3053	0.3217		0.28	12	**TM			0.010
57	TM	Dibenzofuran		2.146	2.151	2.189	2.113	2.192	2.258	2.260	2.368		2.2	3.7	TM			0.800
58	TM	2,4-DNT		0.4874	0.5258	0.5675	0.5631	0.5872	0.6207	0.6214	0.6309		0.58	8.8	TM			0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.4226	0.4326	0.4568	0.4521	0.4802	0.4931	0.5021	0.5103		0.47	6.9	TM			0.010
60	TM	Diethyl phthalate		1.717	1.750	1.774	1.700	1.785	1.821	1.822	1.856		1.8	3.0	TM			0.010
61	TM	4-Chlorophenyl phenyl ether		0.9642	0.9787	1.003	0.9777	1.022	1.052	1.077	1.128		1.0	5.6	TM			0.400
62	TM	Fluorene		1.723	1.752	1.766	1.748	1.849	1.876	1.915	1.993		1.8	5.3	TM			0.900
63	TM	4-Nitroaniline		0.3881	0.4161	0.4217	0.4161	0.4232	0.4331	0.4350	0.4238		0.42	3.5	TM			0.010
64	S	2,4,6-Tribromophenol(S)		0.2499	0.2577	0.2753	0.2746	0.2881	0.2924	0.3250	0.3519		0.29	12	S			
65	I	Phenanthrene-D10(IS)	ISTD															
66	TM	4,6-Dinitro-2-methylphenol				0.1512	0.1746	0.1987	0.2095	0.2163	0.2173		0.19	14	TM			0.010
67	TM	Diphenyl amine		0.7260	0.7313	0.7409	0.7221	0.7714	0.7734	0.7988	0.7939		0.76	4.1	TM			
68	*TM	n-Nitrosodiphenylamine		0.7260	0.7313	0.7409	0.7221	0.7714	0.7734	0.7988	0.7939		0.76	4.1	*TM			0.010
69	TM	1,2-Diphenylhydrazine		0.7088	0.7296	0.7363	0.7005	0.7390	0.7439	0.7625	0.7442		0.73	2.7	TM			
70	TM	4-Bromophenyl phenyl ether		0.2867	0.2841	0.2901	0.2822	0.3029	0.3102	0.3219	0.3181		0.30	5.3	TM			0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/09/20
Matrix: Instrument: Yoda Initials:

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q	
71	TM	Hexachlorobenzene		0.3059	0.3129	0.3147	0.2992	0.3297	0.3289	0.3449	0.3390		0.32	5.0	TM			0.100
72	TM	Atrazine		0.2523	0.2730	0.2788	0.2709	0.2853	0.2901	0.2889	0.2868		0.28	4.6	TM			0.010
73	*TM	Pentachlorophenol			0.1760	0.2025	0.2048	0.2235	0.2348	0.2427	0.2490		0.22	12	*TM			0.050
74	TM	Phenanthrene		1.345	1.323	1.369	1.279	1.372	1.374	1.412	1.391		1.4	3.1	TM			0.700
75	TM	Anthracene		1.365	1.358	1.392	1.361	1.421	1.466	1.469	1.460		1.4	3.5	TM			0.700
76	TM	Carbazol		1.228	1.242	1.281	1.206	1.271	1.283	1.350	1.297		1.3	3.5	TM			0.010
77	TM	Di-n-butylphthalate		1.399	1.446	1.519	1.477	1.547	1.637	1.617	1.650		1.5	6.1	TM			0.010
78	*TM	Fluoranthene		1.492	1.509	1.526	1.496	1.593	1.632	1.639	1.676		1.6	4.7	*TM			0.600
79	I	Chrysene-D12(IS)	ISTD															
80	TM	Benzidine		0.3875	0.4488	0.4755	0.4544	0.4661	0.4881	0.4328	0.4334		0.45	7.0	TM			
81	TM	Pyrene		1.580	1.594	1.611	1.508	1.589	1.612	1.662	1.608		1.6	2.7	TM			0.600
82	S	Terphenyl-D14(S)		1.093	1.106	1.133	1.100	1.146	1.167	1.246	1.233		1.2	5.1	S			
83	TM	Butyl benzylphthalate		0.5836	0.6098	0.6584	0.6252	0.6819	0.6870	0.7124	0.7012		0.66	7.1	TM			0.010
84	TM	3,3'-Dichlorobenzidine		0.4764	0.5012	0.5358	0.5200	0.5374	0.5593	0.5590	0.5373		0.53	5.4	TM			0.010
85	TM	Benz (a) anthracene		1.520	1.560	1.589	1.516	1.620	1.658	1.688	1.703		1.6	4.5	TM			0.800
86	TM	Bis (2-ethylhexyl) phthalate		0.8281	0.8665	0.9124	0.8825	0.9508	0.9571	0.9995	0.9787		0.92	6.5	TM			0.010
87	TM	Chrysene		1.533	1.530	1.547	1.443	1.537	1.539	1.633	1.608		1.5	3.7	TM			0.700
88	*TM	Di-n-octylphthalate		1.194	1.328	1.474	1.479	1.579	1.648	1.693	1.683		1.5	12	*TM			0.010
89	I	Perylene-D12(IS)	ISTD															
90	TM	Benzo (b) fluoranthene		1.322	1.387	1.529	1.433	1.628	1.753	1.644	1.720		1.6	10	TM			0.700
91	TM	Benzo (k) fluoranthene		1.522	1.563	1.485	1.475	1.477	1.420	1.570	1.516		1.5	3.3	TM			0.700
92	*TM	Benzo (a) pyrene	1.198	1.279	1.346	1.442	1.386	1.499	1.524	1.536	1.563		1.4	8.9	*TM			0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.425	1.508	1.567	1.530	1.657	1.696	1.717	1.718		1.6	6.9	TM			0.500
94	TM	Dibenz (a,h) anthracene	1.199	1.284	1.331	1.382	1.359	1.465	1.487	1.513	1.542		1.4	8.2	TM			0.400
95	TM	Benzo (g,h,i) perylene		1.295	1.328	1.376	1.316	1.428	1.458	1.469	1.465		1.4	5.2	TM			0.500
96																		
97																		
98																		
99																		
100																		
101																		
102																		
103																		
104																		
105																		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y003.D Vial: 3
Acq On : 9 Oct 20 11:14 Operator: MA
Sample : 4ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:28:56 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	227533	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	901223	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	551168	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1043970	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1064432	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	1050083	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
6) Phenol-D6 (S)	0.00	99	0d	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
22) Nitrobenzene-D5(S)	0.00	82	0d	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
46) 2-Fluorobiphenyl(S)	0.00	172	0d	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
64) 2,4,6-Tribromophenol(S)	0.00	330	0d	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
82) Terphenyl-D14(S)	0.00	244	0d	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
Target Compounds					Qvalue
92) Benzo (a) pyrene	14.99	252	125828	3.28617 ppb	97
94) Dibenz (a,h) anthracene	16.77	278	125879	3.24970 ppb	96

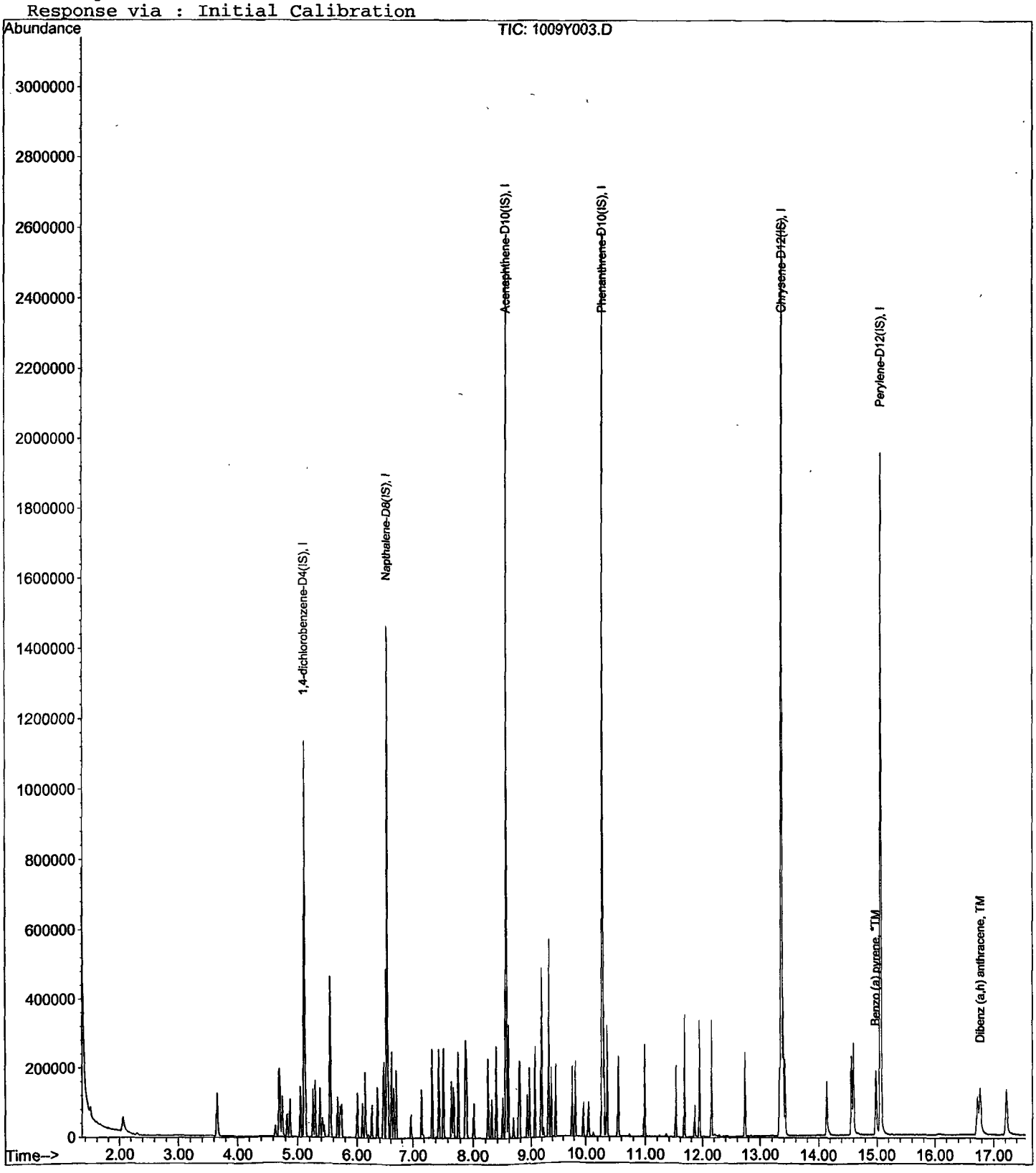
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y003.D Vial: 3
Acq On : 9 Oct 20 11:14 Operator: MA
Sample : 4ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:32 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y004.D Vial: 4
Acq On : 9 Oct 20 11:40 Operator: MA
Sample : 5ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	295573	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	1198634	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	717733	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1396730	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1400451	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	1378494	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.65	112	107548	9.79493 ppb	0.00
Spiked Amount 200.000			Recovery	= 4.898%	
6) Phenol-D6 (S)	4.69	99	132793	9.54853 ppb	-0.02
Spiked Amount 200.000			Recovery	= 4.775%	
22) Nitrobenzene-D5(S)	5.72	82	56448	4.47844 ppb	0.00
Spiked Amount 100.000			Recovery	= 4.478%	
46) 2-Fluorobiphenyl(S)	7.77	172	148324	4.95989 ppb	0.00
Spiked Amount 100.000			Recovery	= 4.960%	
64) 2,4,6-Tribromophenol(S)	9.46	330	44842	8.88855 ppb	-0.02
Spiked Amount 200.000			Recovery	= 4.445%	
82) Terphenyl-D14(S)	12.15	244	191253	4.79704 ppb	0.00
Spiked Amount 100.000			Recovery	= 4.797%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	1586	0.58537	88
3) n-Nitrosodimethylamine	2.04	42	17000	4.74480 ppb	88
4) Pyridine	2.06	79	52628	4.74569 ppb	100
7) Phenol	4.71	94	73745	4.41786 ppb	96
8) Aniline	4.75	93	74912	6.48908 ppb	100
9) Bis (2-chloroethyl) ether	4.82	63	32333	4.91887 ppb	93
10) 2-Chlorophenol	4.88	128	66407	4.92247 ppb	98
11) 1,3-DCB	5.05	146	72396	4.92865 ppb	96
12) 1,4-DCB	5.13	146	74215	4.97605 ppb	96
13) Benzyl alcohol	5.26	108	36696	4.98304 ppb	99
14) 1,2-DCB	5.30	146	70078	5.02008 ppb	97
15) 2-Methylphenol	5.38	107	48979	4.71409 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	44300	5.18894 ppb	96
17) Acetophenone	5.56	105	84332	5.12230 ppb	72
18) 3&4-Methylphenol	5.55	107	132686	10.04745 ppb	97
19) n-Nitrosodi-n-propylamine	5.56	70	42735	4.95123 ppb	96
20) Hexachloroethane	5.67	117	24461	4.63665 ppb	85
23) Nitrobenzene	5.74	77	61553	4.77890 ppb	97
24) Isophorone	6.00	82	103656	4.63891 ppb	94
25) 2-Nitrophenol	6.10	139	35327	4.48123 ppb	90
26) 2,4-Dimethylphenol	6.14	122	57085	4.80390 ppb	99
27) Benzoic acid	6.21	105	13240	6.32470 ppb	93
28) Bis (2-chloroethoxy) metha	6.26	93	66732	4.75525 ppb	97
29) 2,4-Dichlorophenol	6.36	162	57519	4.80776 ppb	98
30) 1,2,4-Trichlorobenzene	6.47	180	65647	4.84104 ppb	96
31) 3,4-Dimethylphenol	6.48	107	83137	4.94914 ppb	97
32) Naphthalene	6.55	128	190633	4.82985 ppb	99
33) 4-Chloroaniline	6.61	127	80253	5.17102 ppb	99
34) 2,6-Dichlorophenol	6.62	162	56054	4.70900 ppb	99
35) Hexachloropropene	6.65	213	44063	4.33691 ppb	94
36) Hexachlorobutadiene	6.70	225	40246	4.85135 ppb	97
37) Caprolactum	6.97	55	17565	4.41965 ppb	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y004.D Vial: 4
Acq On : 9 Oct 20 11:40 Operator: MA
Sample : 5ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.15	107	58070	4.81778 ppb		86
39)	2-Methylnaphthalene	7.34	142	126478	4.76950 ppb		99
40)	1-Methylnaphthalene	7.45	142	130512	4.78713 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	44192	6.59964 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.53	216	68146	4.75873 ppb		98
44)	2,4,6-Trichlorophenol	7.66	196	44724	4.91186 ppb		99
45)	2,4,5-Trichlorophenol	7.70	196	47561	4.90189 ppb		98
47)	1,1'-Biphenyl	7.89	154	169036	4.95293 ppb		98
48)	2-Chloronaphthalene	7.90	162	133473	4.96496 ppb		98
49)	2-Nitroaniline	8.02	65	30540	4.51608 ppb		99
50)	Dimethyl phthalate	8.24	163	159491	4.99723 ppb		100
51)	2,6-DNT	8.31	165	32251	4.37339 ppb		96
52)	Acenaphthylene	8.38	152	203875	4.96211 ppb		99
53)	3-Nitroaniline	8.02	138	39061	4.35954 ppb		97
54)	Acenaphthene	8.58	154	135729	5.12585 ppb		99
55)	2,4-Dinitrophenol	8.61	184	2676	14.40545 ppb	#	76
56)	4-Nitrophenol	8.68	65	16620	3.63593 ppb		100
57)	Dibenzofuran	8.78	168	192534	5.04183 ppb		97
58)	2,4-DNT	8.77	165	43731	4.32291 ppb		88
59)	2,3,4,6-Tetrachlorophenol	8.93	232	37911	4.90306 ppb	#	88
60)	Diethyl phthalate	9.07	149	154007	4.98862 ppb		96
61)	4-Chlorophenyl phenyl ethe	9.20	204	86504	4.89026 ppb		90
62)	Fluorene	9.18	166	154595	4.80618 ppb		98
63)	4-Nitroaniline	8.49	138	34823	4.65461 ppb		88
66)	4,6-Dinitro-2-methylphenol	9.23	198	13188	1.91548 ppb	#	75
67)	Diphenyl amine	9.33	169	253502	9.63821 ppb		98
68)	n-Nitrosodiphenylamine	9.33	169	253502	9.63821 ppb		98
69)	1,2-Diphenylhydrazine	9.37	77	123757	4.50039 ppb		98
70)	4-Bromophenyl phenyl ether	9.76	248	50055	4.67893 ppb	#	89
71)	Hexachlorobenzene	9.82	284	53411	4.68093 ppb		95
72)	Atrazine	9.96	200	22023	2.25969 ppb		96
73)	Pentachlorophenol	10.05	266	26716	4.28442 ppb		96
74)	Phenanthrene	10.30	178	234788	4.95281 ppb		99
75)	Anthracene	10.36	178	238324	4.86048 ppb		100
76)	Carbazol	10.54	167	214401	4.85351 ppb		99
77)	Di-n-butylphthalate	10.99	149	244243	4.57482 ppb		99
78)	Fluoranthene	11.68	202	260481	4.74656 ppb		98
80)	Benzidine	11.85	184	67831	9.77949 ppb	#	98
81)	Pyrene	11.94	202	276641	5.01631 ppb		100
83)	Butyl benzylphthalate	12.73	149	102157	4.37279 ppb		88
84)	3,3'-Dichlorobenzidine	13.33	252	83398	4.54517 ppb	#	97
85)	Benz (a) anthracene	13.35	228	266101	4.65566 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.41	149	144972	4.51925 ppb	#	93
87)	Chrysene	13.38	228	268306	5.11347 ppb		99
88)	Di-n-octylphthalate	14.14	149	208993	3.83482 ppb		96
90)	Benzo (b) fluoranthene	14.57	252	227849	3.97078 ppb		98
91)	Benzo (k) fluoranthene	14.60	252	262261	5.45232 ppb		98
92)	Benzo (a) pyrene	14.98	252	220313	4.38300 ppb		97
93)	Indeno (1,2,3-cd) pyrene	16.73	276	245585	4.86013 ppb		96
94)	Dibenz (a,h) anthracene	16.77	278	221214	4.35032 ppb		97
95)	Benzo (g,h,i) perylene	17.22	276	223157	4.50748 ppb		99

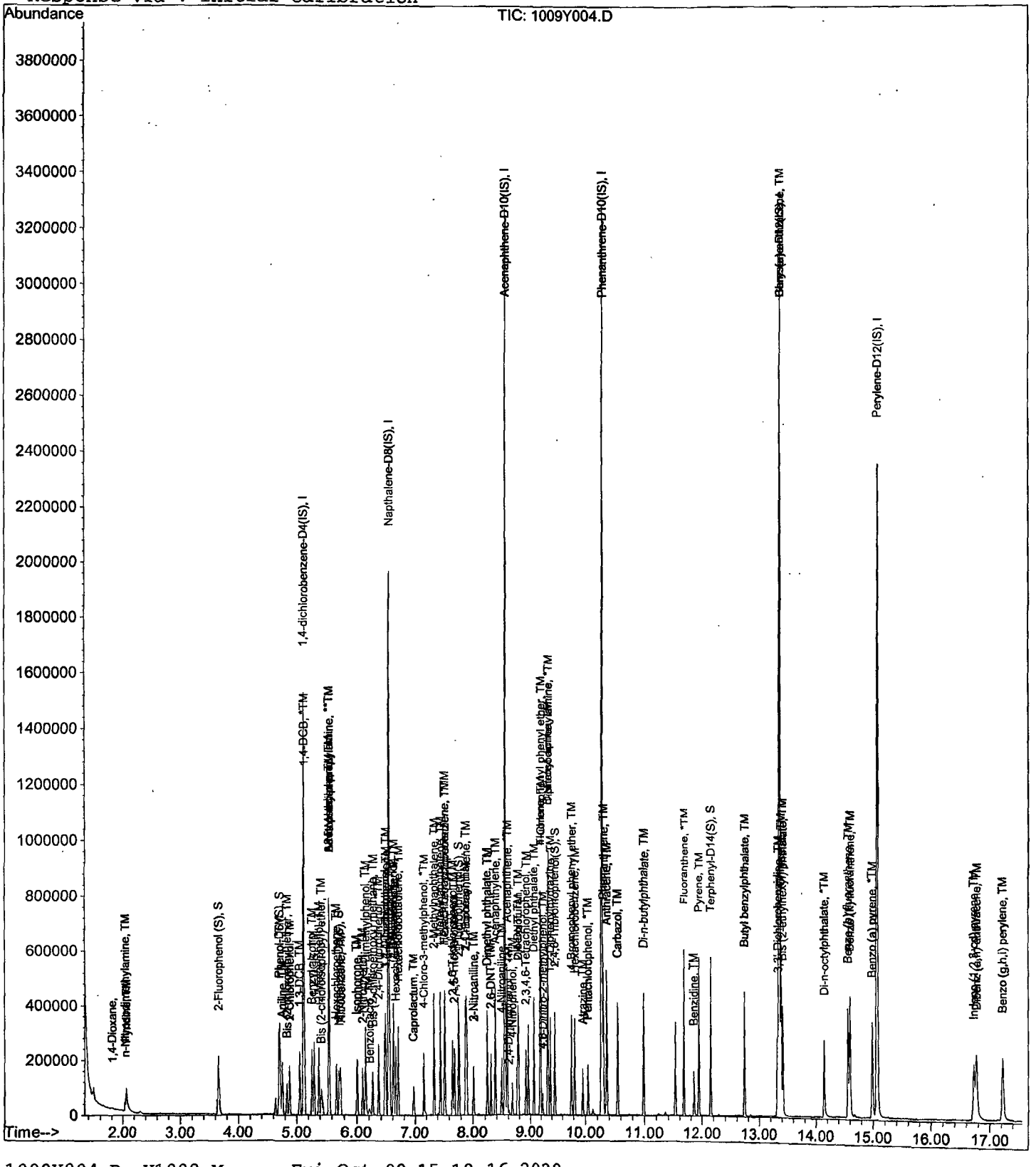
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y004.D Vial: 4
Acq On : 9 Oct 20 11:40 Operator: MA
Sample : 5ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:38 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	211409	40.00000	ppb	0.00
21) Napthalene-D8(IS)	6.52	136	859818	40.00000	ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	520738	40.00000	ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1015162	40.00000	ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1017473	40.00000	ppb	0.00
89) Perylene-D12(IS)	15.06	264	991671	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.66	112	156796	19.96527	ppb	0.00
Spiked Amount 200.000			Recovery =	9.983%		
6) Phenol-D6 (S)	4.70	99	197438	19.84875	ppb	0.00
Spiked Amount 200.000			Recovery =	9.925%		
22) Nitrobenzene-D5(S)	5.72	82	87568	9.68508	ppb	0.00
Spiked Amount 100.000			Recovery =	9.685%		
46) 2-Fluorobiphenyl(S)	7.77	172	214475	9.88509	ppb	0.00
Spiked Amount 100.000			Recovery =	9.885%		
64) 2,4,6-Tribromophenol(S)	9.46	330	67086	18.32827	ppb	-0.02
Spiked Amount 200.000			Recovery =	9.164%		
82) Terphenyl-D14(S)	12.15	244	281289	9.71097	ppb	0.00
Spiked Amount 100.000			Recovery =	9.711%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	1422m	0.73378		60
3) n-Nitrosodimethylamine	2.04	42	26386	10.29636	ppb	98
4) Pyridine	2.06	79	78803	9.93497	ppb	95
7) Phenol	4.71	94	110411	9.24768	ppb	94
8) Aniline	4.75	93	112408	13.61351	ppb	99
9) Bis (2-chloroethyl) ether	4.83	63	46713	9.93571	ppb	83
10) 2-Chlorophenol	4.88	128	97782	10.13374	ppb	99
11) 1,3-DCB	5.05	146	107275	10.21065	ppb	96
12) 1,4-DCB	5.13	146	109450	10.26007	ppb	96
13) Benzyl alcohol	5.26	108	54672	10.37964	ppb	98
14) 1,2-DCB	5.30	146	102762	10.29207	ppb	98
15) 2-Methylphenol	5.38	107	72503	9.75630	ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	63573	10.41092	ppb	95
17) Acetophenone	5.56	105	125252	10.63650	ppb	75
18) 3&4-Methylphenol	5.55	107	195207	20.66653	ppb	97
19) n-Nitrosodi-n-propylamine	5.56	70	63491	10.28449	ppb	97
20) Hexachloroethane	5.67	117	37728	9.99851	ppb	77
23) Nitrobenzene	5.74	77	91971	9.95428	ppb	98
24) Isophorone	6.01	82	157472	9.82437	ppb	94
25) 2-Nitrophenol	6.10	139	51426	9.09397	ppb	90
26) 2,4-Dimethylphenol	6.14	122	84524	9.91589	ppb	97
27) Benzoic acid	6.22	105	25651	8.90070	ppb	93
28) Bis (2-chloroethoxy) metha	6.26	93	101899	10.12253	ppb	98
29) 2,4-Dichlorophenol	6.36	162	85540	9.96738	ppb	97
30) 1,2,4-Trichlorobenzene	6.47	180	96262	9.89599	ppb	95
31) 3,4-Dimethylphenol	6.48	107	119988	9.95758	ppb	98
32) Naphthalene	6.55	128	282779	9.98765	ppb	99
33) 4-Chloroaniline	6.61	127	120459	10.82017	ppb	98
34) 2,6-Dichlorophenol	6.62	162	84470	9.89248	ppb	97
35) Hexachloropropene	6.65	213	65625	9.00443	ppb	95
36) Hexachlorobutadiene	6.70	225	58596	9.84663	ppb	98
37) Caprolactum	6.98	55	26692	9.36269	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:38 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.16	107	87025	10.06512 ppb		99
39)	2-Methylnaphthalene	7.34	142	188174	9.89230 ppb		100
40)	1-Methylnaphthalene	7.45	142	196666	10.05622 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	71256	12.98649 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	103616	9.97288 ppb		97
44)	2,4,6-Trichlorophenol	7.67	196	66602	10.08176 ppb		99
45)	2,4,5-Trichlorophenol	7.70	196	69510	9.87424 ppb		99
47)	1,1'-Biphenyl	7.89	154	243153	9.81989 ppb		98
48)	2-Chloronaphthalene	7.90	162	195930	10.04539 ppb		97
49)	2-Nitroaniline	8.02	65	46170	9.41015 ppb		99
50)	Dimethyl phthalate	8.24	163	233303	10.07527 ppb		100
51)	2,6-DNT	8.31	165	48055	8.98168 ppb		97
52)	Acenaphthylene	8.38	152	295539	9.91427 ppb		99
53)	3-Nitroaniline	8.02	138	61198	9.41409 ppb		98
54)	Acenaphthene	8.58	154	197234	10.26642 ppb		99
55)	2,4-Dinitrophenol	8.61	184	7249	15.73076 ppb		95
56)	4-Nitrophenol	8.68	65	29458	8.88242 ppb		94
57)	Dibenzofuran	8.79	168	280021	10.10682 ppb		94
58)	2,4-DNT	8.77	165	68450	9.32618 ppb		86
59)	2,3,4,6-Tetrachlorophenol	8.93	232	56312	10.03798 ppb	#	91
60)	Diethyl phthalate	9.07	149	227834	10.17189 ppb		96
61)	4-Chlorophenyl phenyl ethe	9.20	204	127415	9.92795 ppb		93
62)	Fluorene	9.18	166	228130	9.77532 ppb		98
63)	4-Nitroaniline	8.49	138	54164	9.97864 ppb		86
66)	4,6-Dinitro-2-methylphenol	9.23	198	26610	5.31765 ppb	#	89
67)	Diphenyl amine	9.33	169	371199	19.41774 ppb		99
68)	n-Nitrosodiphenylamine	9.33	169	371199	19.41774 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	185164	9.26434 ppb		96
70)	4-Bromophenyl phenyl ether	9.76	248	72113	9.27448 ppb	#	91
71)	Hexachlorobenzene	9.82	284	79404	9.57461 ppb		93
72)	Atrazine	9.96	200	34643	4.89062 ppb		98
73)	Pentachlorophenol	10.05	266	44666	9.85541 ppb		97
74)	Phenanthrene	10.30	178	335804	9.74628 ppb		99
75)	Anthracene	10.36	178	344578	9.66888 ppb		100
76)	Carbazol	10.55	167	315150	9.81574 ppb		96
77)	Di-n-butylphthalate	10.99	149	366967	9.45705 ppb		99
78)	Fluoranthene	11.69	202	383069	9.60410 ppb		98
80)	Benzidine	11.85	184	114148	14.70810 ppb		98
81)	Pyrene	11.95	202	405458	10.11950 ppb		99
83)	Butyl benzylphthalate	12.73	149	155110	9.13850 ppb		86
84)	3,3'-Dichlorobenzidine	13.33	252	127488	9.56333 ppb	#	97
85)	Benz (a) anthracene	13.35	228	396810	9.55571 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.41	149	220414	9.45728 ppb	#	93
87)	Chrysene	13.38	228	389144	10.20800 ppb		99
88)	Di-n-octylphthalate	14.15	149	337683	8.52839 ppb		96
90)	Benzo (b) fluoranthene	14.57	252	343740	8.32714 ppb		98
91)	Benzo (k) fluoranthene	14.60	252	387493	11.19822 ppb	#	98
92)	Benzo (a) pyrene	14.98	252	333690	9.22810 ppb		97
93)	Indeno (1,2,3-cd) pyrene	16.73	276	373809	10.28332 ppb		98
94)	Dibenz (a,h) anthracene	16.77	278	330018	9.02161 ppb		98
95)	Benzo (g,h,i) perylene	17.22	276	329165	9.24218 ppb		99

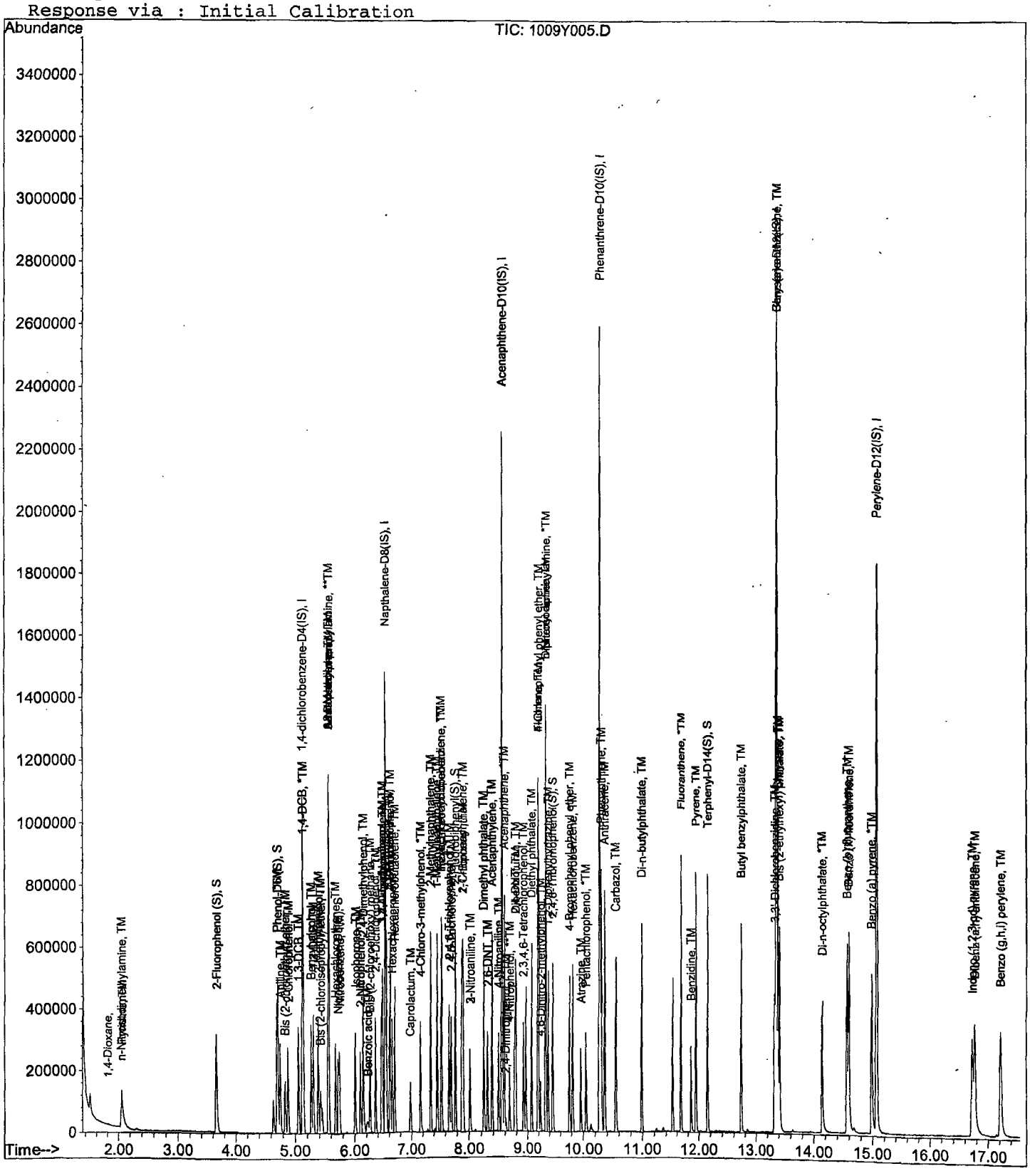
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:38 2020 Quant Results File: Y1009.RES

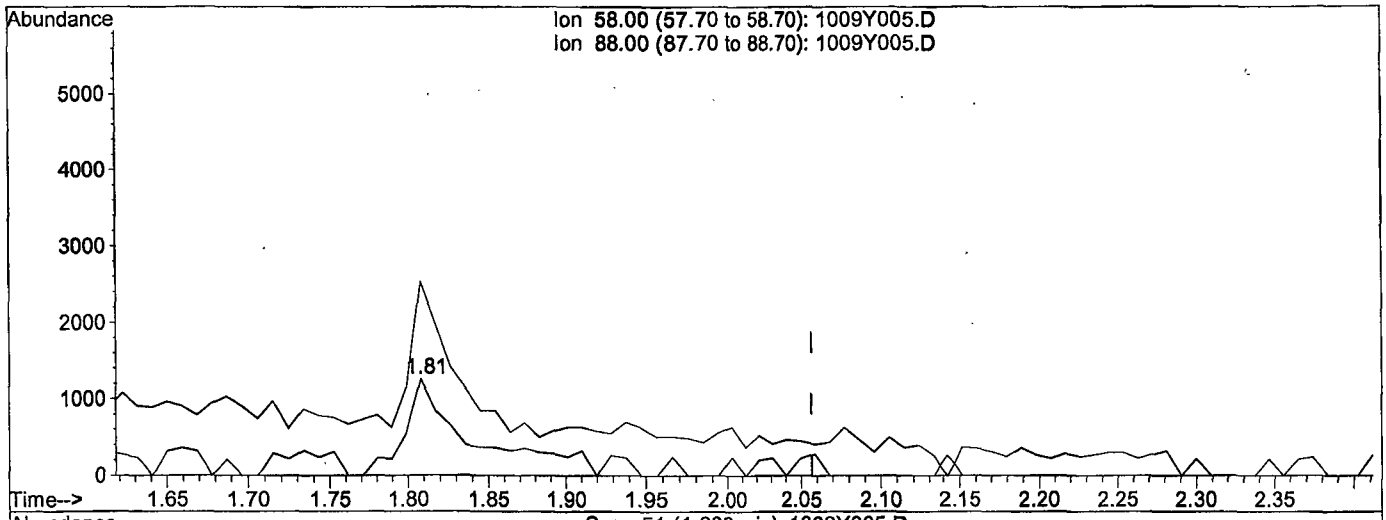
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration

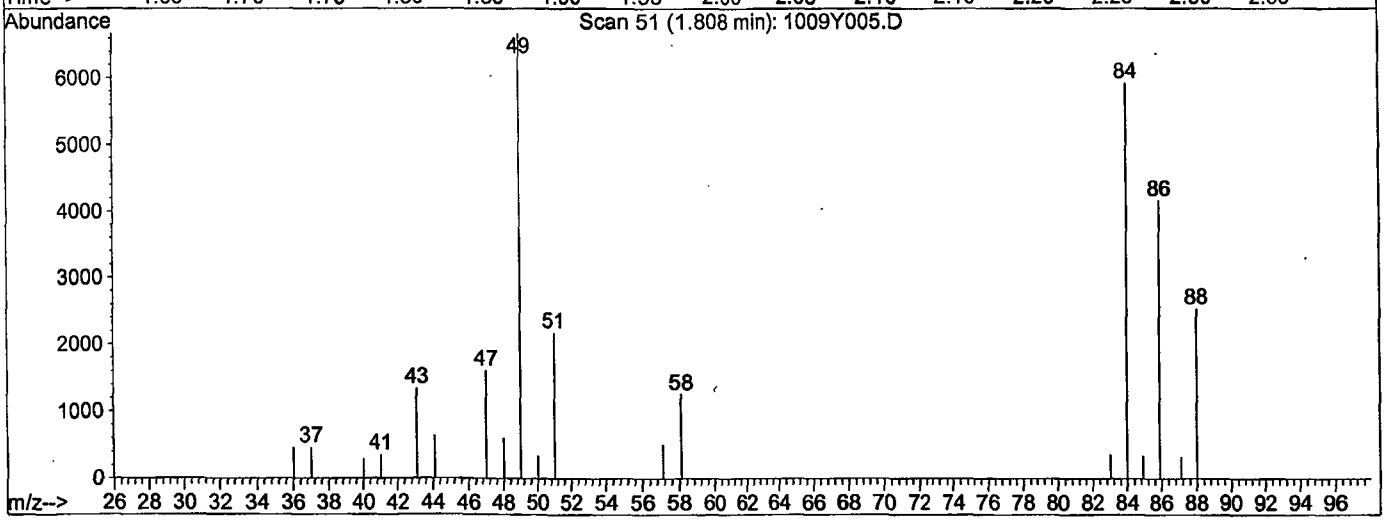


Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:30 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration





TIC: 1009Y005.D

(2) 1,4-Dioxane

1.81min 1.9222

response 3725

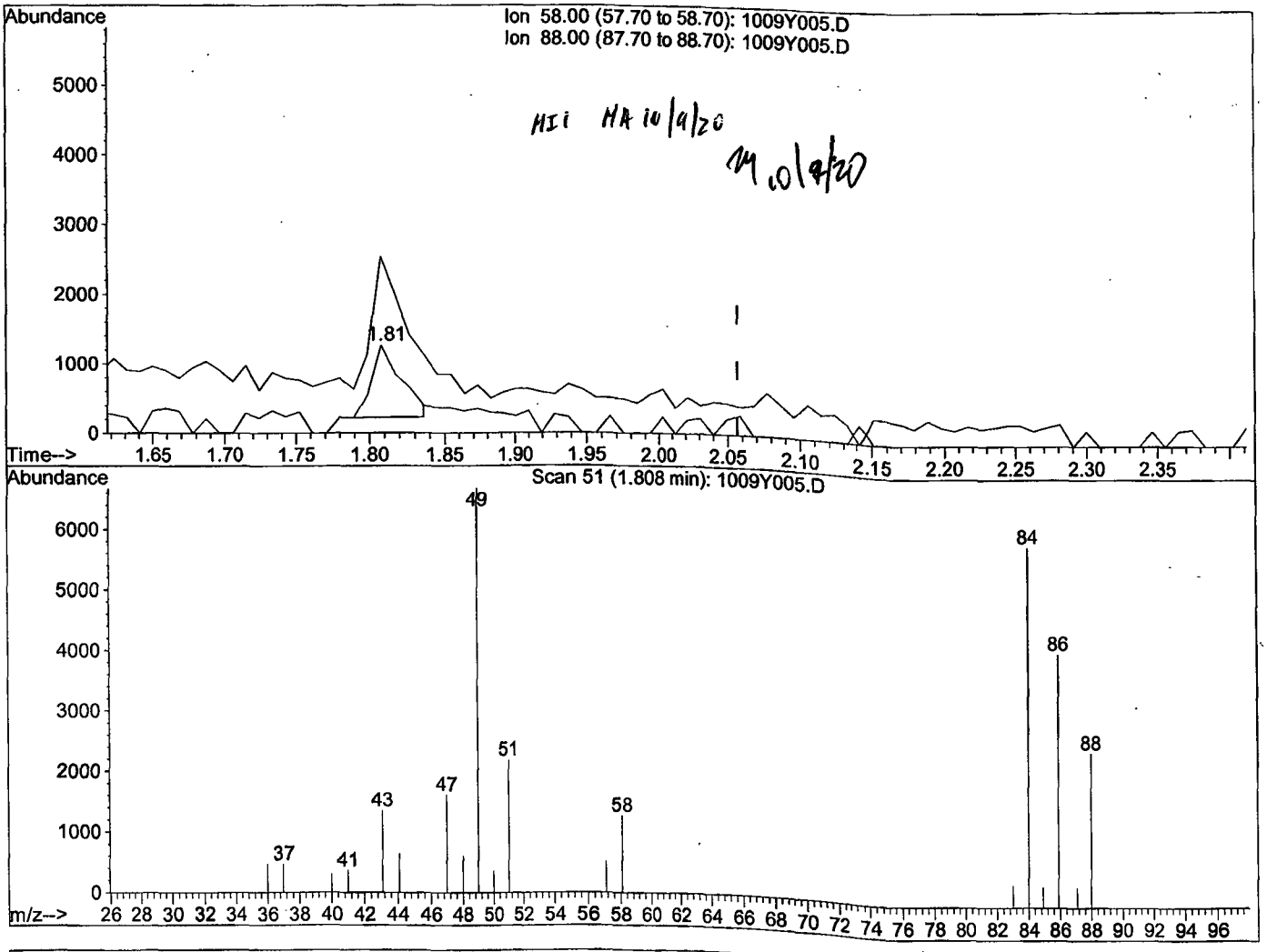
Ion	Exp%	Act%
58.00	100	100
88.00	166.30	112.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y005.D
Acq On : 9 Oct 20 12:05
Sample : 10ug/mL 8270 7/22/20
Misc :
Quant Time: Oct 9 14:38 2020

Vial: 5
Operator: MA
Inst : Yoda
Multiplr: 1.00
Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration



TIC: 1009Y005.D

(2) 1,4-Dioxane

1.81min 0.7338 m

response 1422

Ion	Exp%	Act%
58.00	100	100
88.00	166.30	293.95#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y006.D Vial: 6
Acq On : 9 Oct 20 12:31 Operator: MA
Sample : 20ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	192915	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	808395	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	497350	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	966917	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.36	240	984198	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.06	264	957201	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.66	112	314553	43.89261 ppb		0.00
Spiked Amount 200.000			Recovery =	21.947%		
6) Phenol-D6 (S)	4.70	99	396252	43.65473 ppb		0.00
Spiked Amount 200.000			Recovery =	21.828%		
22) Nitrobenzene-D5(S)	5.73	82	174518	20.52963 ppb		0.00
Spiked Amount 100.000			Recovery =	20.530%		
46) 2-Fluorobiphenyl(S)	7.77	172	418559	20.19844 ppb		0.00
Spiked Amount 100.000			Recovery =	20.198%		
64) 2,4,6-Tribromophenol(S)	9.47	330	136914	39.16469 ppb		0.00
Spiked Amount 200.000			Recovery =	19.583%		
82) Terphenyl-D14(S)	12.15	244	557548	19.89906 ppb		0.00
Spiked Amount 100.000			Recovery =	19.899%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	3788	2.14207		89
3) n-Nitrosodimethylamine	2.03	42	59620	25.49526 ppb		95
4) Pyridine	2.05	79	160790	22.21470 ppb		95
7) Phenol	4.71	94	227978	20.92525 ppb		88
8) Aniline	4.75	93	194560	25.82165 ppb		98
9) Bis (2-chloroethyl) ether	4.83	63	88955	20.73427 ppb		85
10) 2-Chlorophenol	4.88	128	183288	20.81624 ppb		97
11) 1,3-DCB	5.05	146	200236	20.88597 ppb		97
12) 1,4-DCB	5.13	146	205197	21.07963 ppb		97
13) Benzyl alcohol	5.26	108	103551	21.54414 ppb		99
14) 1,2-DCB	5.30	146	191770	21.04788 ppb		97
15) 2-Methylphenol	5.38	107	136626	20.14745 ppb		97
16) Bis (2-chloroisopropyl) et	5.42	45	120266	21.58325 ppb		98
17) Acetophenone	5.56	105	238947	22.23684 ppb		86
18) 3&4-Methylphenol	5.55	107	373935	43.38362 ppb		92
19) n-Nitrosodi-n-propylamine	5.56	70	122321	21.71346 ppb		91
20) Hexachloroethane	5.67	117	72139	20.95073 ppb		76
23) Nitrobenzene	5.74	77	177791	20.46688 ppb		94
24) Isophorone	6.01	82	298471	19.80553 ppb		98
25) 2-Nitrophenol	6.10	139	104580	19.66992 ppb		91
26) 2,4-Dimethylphenol	6.14	122	169548	21.15570 ppb		98
27) Benzoic acid	6.24	105	60551	15.08044 ppb		97
28) Bis (2-chloroethoxy) metha	6.26	93	189163	19.98658 ppb		98
29) 2,4-Dichlorophenol	6.37	162	162407	20.12793 ppb		94
30) 1,2,4-Trichlorobenzene	6.47	180	183956	20.11413 ppb		97
31) 3,4-Dimethylphenol	6.48	107	227135	20.04854 ppb		96
32) Naphthalene	6.55	128	531374	19.96178 ppb		99
33) 4-Chloroaniline	6.62	127	230010	21.97478 ppb	#	93
34) 2,6-Dichlorophenol	6.62	162	158102	19.69350 ppb		97
35) Hexachloropropene	6.65	213	130609	19.06088 ppb		98
36) Hexachlorobutadiene	6.70	225	111431	19.91630 ppb		98
37) Caprolactum	7.00	55	54071	20.17283 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y006.D Vial: 6
Acq On : 9 Oct 20 12:31 Operator: MA
Sample : 20ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.16	107	166541	20.48704 ppb		99
39)	2-Methylnaphthalene	7.34	142	354209	19.80525 ppb		100
40)	1-Methylnaphthalene	7.45	142	366039	19.90745 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	142464	25.68209 ppb		97
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	194757	19.62656 ppb		98
44)	2,4,6-Trichlorophenol	7.67	196	129817	20.57491 ppb		99
45)	2,4,5-Trichlorophenol	7.70	196	138553	20.60769 ppb		97
47)	1,1'-Biphenyl	7.89	154	468875	19.82627 ppb		97
48)	2-Chloronaphthalene	7.91	162	370608	19.89472 ppb		96
49)	2-Nitroaniline	8.02	65	94429	20.15112 ppb		93
50)	Dimethyl phthalate	8.25	163	449533	20.32615 ppb		97
51)	2,6-DNT	8.31	165	97966	19.17130 ppb		95
52)	Acenaphthylene	8.38	152	572109	20.09471 ppb		99
53)	3-Nitroaniline	8.02	138	121616	19.58794 ppb		98
54)	Acenaphthene	8.58	154	379587	20.68739 ppb		99
55)	2,4-Dinitrophenol	8.61	184	25517	20.59204 ppb		85
56)	4-Nitrophenol	8.68	65	63627	20.08752 ppb		88
57)	Dibenzofuran	8.79	168	544443	20.57471 ppb		95
58)	2,4-DNT	8.77	165	141115	20.13078 ppb		95
59)	2,3,4,6-Tetrachlorophenol	8.93	232	113602	21.20257 ppb		92
60)	Diethyl phthalate	9.08	149	441192	20.62377 ppb		99
61)	4-Chlorophenyl phenyl ethe	9.20	204	249437	20.34966 ppb		93
62)	Fluorene	9.19	166	439128	19.70139 ppb		100
63)	4-Nitroaniline	8.49	138	104872	20.22914 ppb		95
66)	4,6-Dinitro-2-methylphenol	9.24	198	73122	15.34155 ppb		93
67)	Diphenyl amine	9.34	169	716408	39.34581 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	716408	39.34581 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	355993	18.70017 ppb		92
70)	4-Bromophenyl phenyl ether	9.76	248	140233	18.93532 ppb	#	88
71)	Hexachlorobenzene	9.82	284	152151	19.26192 ppb	#	90
72)	Atrazine	9.96	200	67395	9.98901 ppb		99
73)	Pentachlorophenol	10.05	266	97914	22.68238 ppb		97
74)	Phenanthrene	10.30	178	661795	20.16614 ppb		99
75)	Anthracene	10.36	178	672912	19.82408 ppb		100
76)	Carbazol	10.55	167	619232	20.24909 ppb		96
77)	Di-n-butylphthalate	10.99	149	734338	19.86876 ppb		99
78)	Fluoranthene	11.69	202	737851	19.42202 ppb		97
80)	Benzidine	11.85	184	233994	24.41519 ppb	#	98
81)	Pyrene	11.95	202	792842	20.45692 ppb		99
83)	Butyl benzylphthalate	12.73	149	323994	19.73389 ppb		84
84)	3,3'-Dichlorobenzidine	13.33	252	263658	20.44660 ppb	#	97
85)	Benz (a) anthracene	13.35	228	782163	19.47233 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.41	149	448969	19.91516 ppb	#	93
87)	Chrysene	13.39	228	761218	20.64333 ppb		99
88)	Di-n-octylphthalate	14.15	149	725589	18.94475 ppb		95
90)	Benzo (b) fluoranthene	14.57	252	731637	18.36224 ppb		99
91)	Benzo (k) fluoranthene	14.61	252	710650	21.27676 ppb		100
92)	Benzo (a) pyrene	14.99	252	689928	19.76683 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	749939	21.37342 ppb		99
94)	Dibenz (a,h) anthracene	16.78	278	661450	18.73302 ppb		97
95)	Benzo (g,h,i) perylene	17.24	276	658600	19.15786 ppb		98

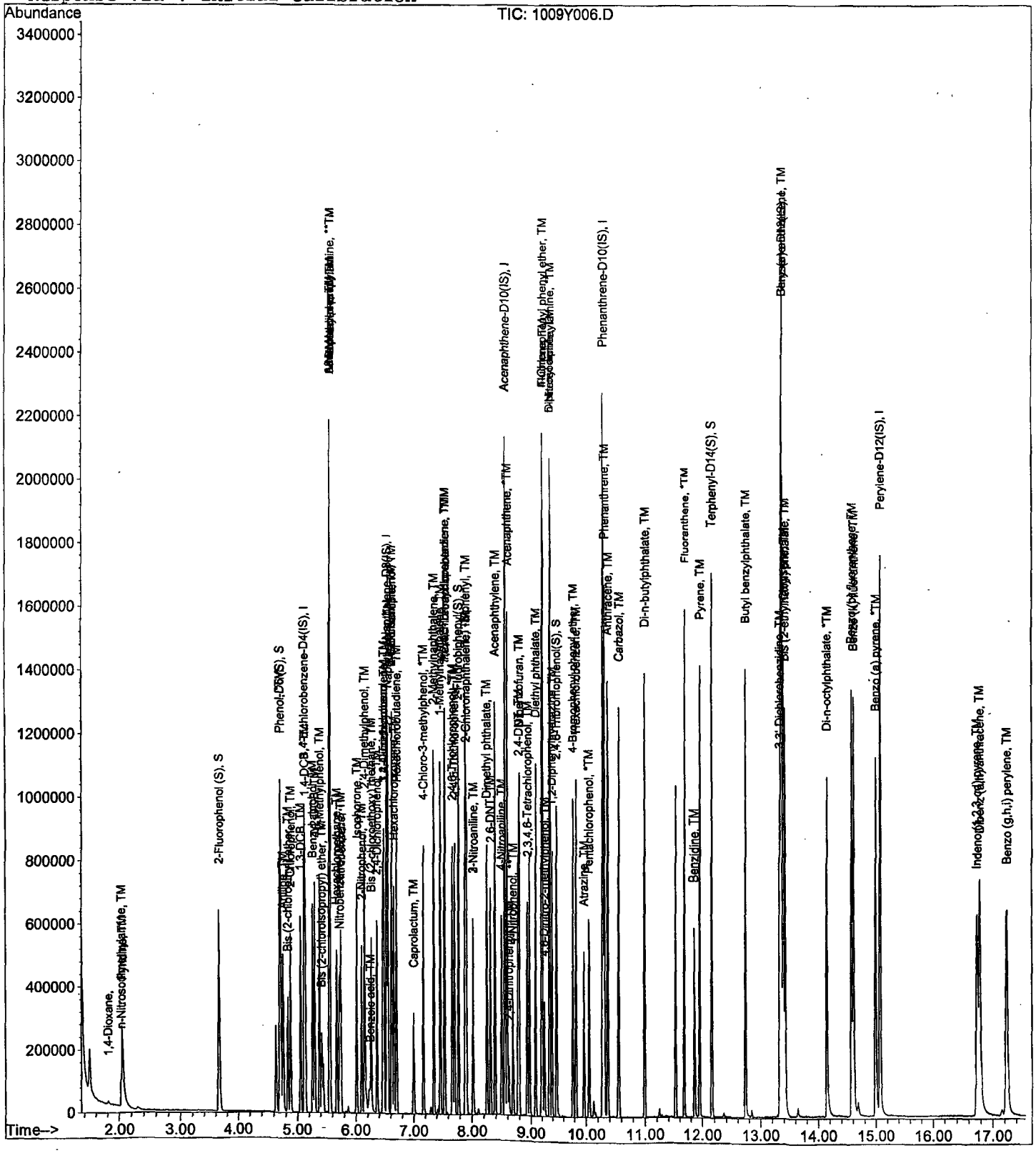
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y006.D Vial: 6
Acq On : 9 Oct 20 12:31 Operator: MA
Sample : 20ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:40 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	212035	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	854538	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	517005	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1018808	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	1051031	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1020267	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	634034	80.49494 ppb	0.00
Spiked Amount 200.000			Recovery = 40.248%		
6) Phenol-D6 (S)	4.71	99	791612	79.34703 ppb	0.00
Spiked Amount 200.000			Recovery = 39.674%		
22) Nitrobenzene-D5(S)	5.73	82	352039	39.17634 ppb	0.00
Spiked Amount 100.000			Recovery = 39.176%		
46) 2-Fluorobiphenyl(S)	7.78	172	846283	39.28656 ppb	0.00
Spiked Amount 100.000			Recovery = 39.287%		
64) 2,4,6-Tribromophenol(S)	9.47	330	283940	78.13413 ppb	0.00
Spiked Amount 200.000			Recovery = 39.067%		
82) Terphenyl-D14(S)	12.15	244	1156658	38.65648 ppb	0.00
Spiked Amount 100.000			Recovery = 38.656%		
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	7640	3.93075	90
3) n-Nitrosodimethylamine	2.03	42	110402	42.95393 ppb	98
4) Pyridine	2.05	79	306592	38.53901 ppb	99
7) Phenol	4.72	94	463809	38.73249 ppb	96
8) Aniline	4.76	93	336320	40.61080 ppb	98
9) Bis (2-chloroethyl) ether	4.84	63	184887	39.20878 ppb	93
10) 2-Chlorophenol	4.88	128	378288	39.08852 ppb	95
11) 1,3-DCB	5.06	146	394833	37.47005 ppb	99
12) 1,4-DCB	5.13	146	403302	37.69475 ppb	97
13) Benzyl alcohol	5.26	108	207791	39.33326 ppb	92
14) 1,2-DCB	5.30	146	377953	37.74192 ppb	98
15) 2-Methylphenol	5.38	107	273697	36.72106 ppb	97
16) Bis (2-chloroisopropyl) et	5.42	45	237348	38.75413 ppb	95
17) Acetophenone	5.56	105	478394	40.50566 ppb	93
18) 3&4-Methylphenol	5.56	107	757832	79.99466 ppb	97
19) n-Nitrosodi-n-propylamine	5.57	70	246849	39.86740 ppb	98
20) Hexachloroethane	5.67	117	144939	38.29770 ppb	76
23) Nitrobenzene	5.74	77	351360	38.26364 ppb	91
24) Isophorone	6.01	82	599785	37.65063 ppb	97
25) 2-Nitrophenol	6.10	139	214038	38.08351 ppb #	86
26) 2,4-Dimethylphenol	6.14	122	330250	38.98251 ppb	96
27) Benzoic acid	6.23	105	206981m	38.02135 ppb	98
28) Bis (2-chloroethoxy) metha	6.26	93	380455	38.02750 ppb	99
29) 2,4-Dichlorophenol	6.37	162	326752	38.30937 ppb	95
30) 1,2,4-Trichlorobenzene	6.47	180	361788	37.42257 ppb	97
31) 3,4-Dimethylphenol	6.49	107	468655	39.13310 ppb	99
32) Naphthalene	6.55	128	1064880	37.84355 ppb	99
33) 4-Chloroaniline	6.62	127	463963	41.93276 ppb	96
34) 2,6-Dichlorophenol	6.63	162	324881	38.28265 ppb	97
35) Hexachloropropene	6.65	213	264065	36.45632 ppb	97
36) Hexachlorobutadiene	6.70	225	226657	38.32340 ppb	99
37) Caprolactum	7.03	55	110677	39.06178 ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:40 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	332232	38.66266	ppb		93
39)	2-Methylnaphthalene	7.34	142	712074	37.66500	ppb		99
40)	1-Methylnaphthalene	7.46	142	747350	38.45072	ppb		98
42)	Hexachlorocyclopentadiene	7.53	237	266304	45.08437	ppb		97
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	396423	38.43061	ppb		99
44)	2,4,6-Trichlorophenol	7.67	196	266713	40.66473	ppb		96
45)	2,4,5-Trichlorophenol	7.70	196	280347	40.11223	ppb		93
47)	1,1'-Biphenyl	7.89	154	956404	38.90387	ppb		97
48)	2-Chloronaphthalene	7.91	162	757162	39.10021	ppb		97
49)	2-Nitroaniline	8.02	65	190271	39.06014	ppb		83
50)	Dimethyl phthalate	8.25	163	899127	39.10948	ppb		98
51)	2,6-DNT	8.31	165	201507	37.93445	ppb	#	81
52)	Acenaphthylene	8.38	152	1157318	39.10418	ppb		100
53)	3-Nitroaniline	8.02	138	250735	38.84905	ppb		94
54)	Acenaphthene	8.59	154	762724	39.98796	ppb		100
55)	2,4-Dinitrophenol	8.61	184	82583	34.69107	ppb		85
56)	4-Nitrophenol	8.69	65	138343	42.01550	ppb		91
57)	Dibenzofuran	8.79	168	1092529	39.71747	ppb		97
58)	2,4-DNT	8.77	165	291100	39.94817	ppb		93
59)	2,3,4,6-Tetrachlorophenol	8.93	232	233724	41.96365	ppb		94
60)	Diethyl phthalate	9.08	149	879121	39.53270	ppb		98
61)	4-Chlorophenyl phenyl ethe	9.20	204	505486	39.67096	ppb		94
62)	Fluorene	9.19	166	903585	38.99799	ppb		99
63)	4-Nitroaniline	8.50	138	215127	39.91904	ppb	#	79
66)	4,6-Dinitro-2-methylphenol	9.24	198	177892	35.42211	ppb		92
67)	Diphenyl amine	9.34	169	1471327	76.69095	ppb		100
68)	n-Nitrosodiphenylamine	9.34	169	1471327	76.69095	ppb		100
69)	1,2-Diphenylhydrazine	9.38	77	713667	35.57923	ppb	#	89
70)	4-Bromophenyl phenyl ether	9.76	248	287510	36.84446	ppb	#	87
71)	Hexachlorobenzene	9.82	284	304827	36.62479	ppb	#	84
72)	Atrazine	9.97	200	138004	19.41258	ppb		96
73)	Pentachlorophenol	10.05	266	208610	45.86440	ppb		99
74)	Phenanthrene	10.30	178	1303520	37.69762	ppb		99
75)	Anthracene	10.37	178	1387082	38.78232	ppb		99
76)	Carbazol	10.55	167	1228289	38.11970	ppb		98
77)	Di-n-butylphthalate	10.99	149	1504720	38.63913	ppb		99
78)	Fluoranthene	11.70	202	1524460	38.08366	ppb		98
80)	Benzidine	11.85	184	477549	41.16107	ppb	#	97
81)	Pyrene	11.96	202	1584435	38.28203	ppb		99
83)	Butyl benzylphthalate	12.74	149	657082	37.47677	ppb	#	79
84)	3,3'-Dichlorobenzidine	13.33	252	546556	39.69005	ppb		99
85)	Benz (a) anthracene	13.35	228	1593023	37.13724	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.41	149	927574	38.52858	ppb	#	93
87)	Chrysene	13.39	228	1516346	38.50666	ppb		99
88)	Di-n-octylphthalate	14.15	149	1554499	38.00631	ppb		97
90)	Benzo (b) fluoranthene	14.57	252	1462171	34.42845	ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1504454	42.25888	ppb		98
92)	Benzo (a) pyrene	14.99	252	1413745	38.00089	ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.75	276	1561010	41.73909	ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1386808	36.84822	ppb		97
95)	Benzo (g,h,i) perylene	17.25	276	1342256	36.63110	ppb		99

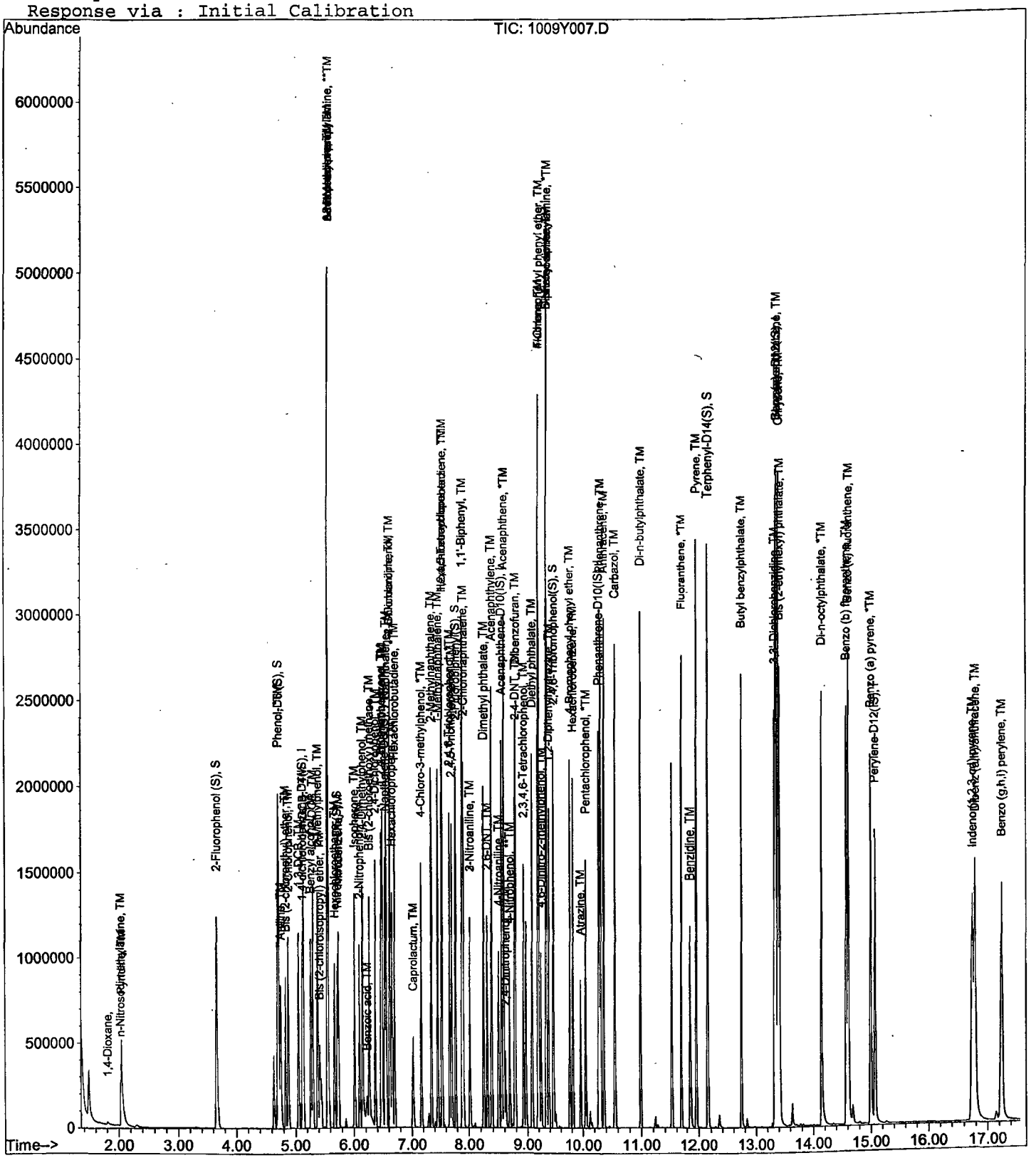
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:40 2020 Quant Results File: Y1009.RES

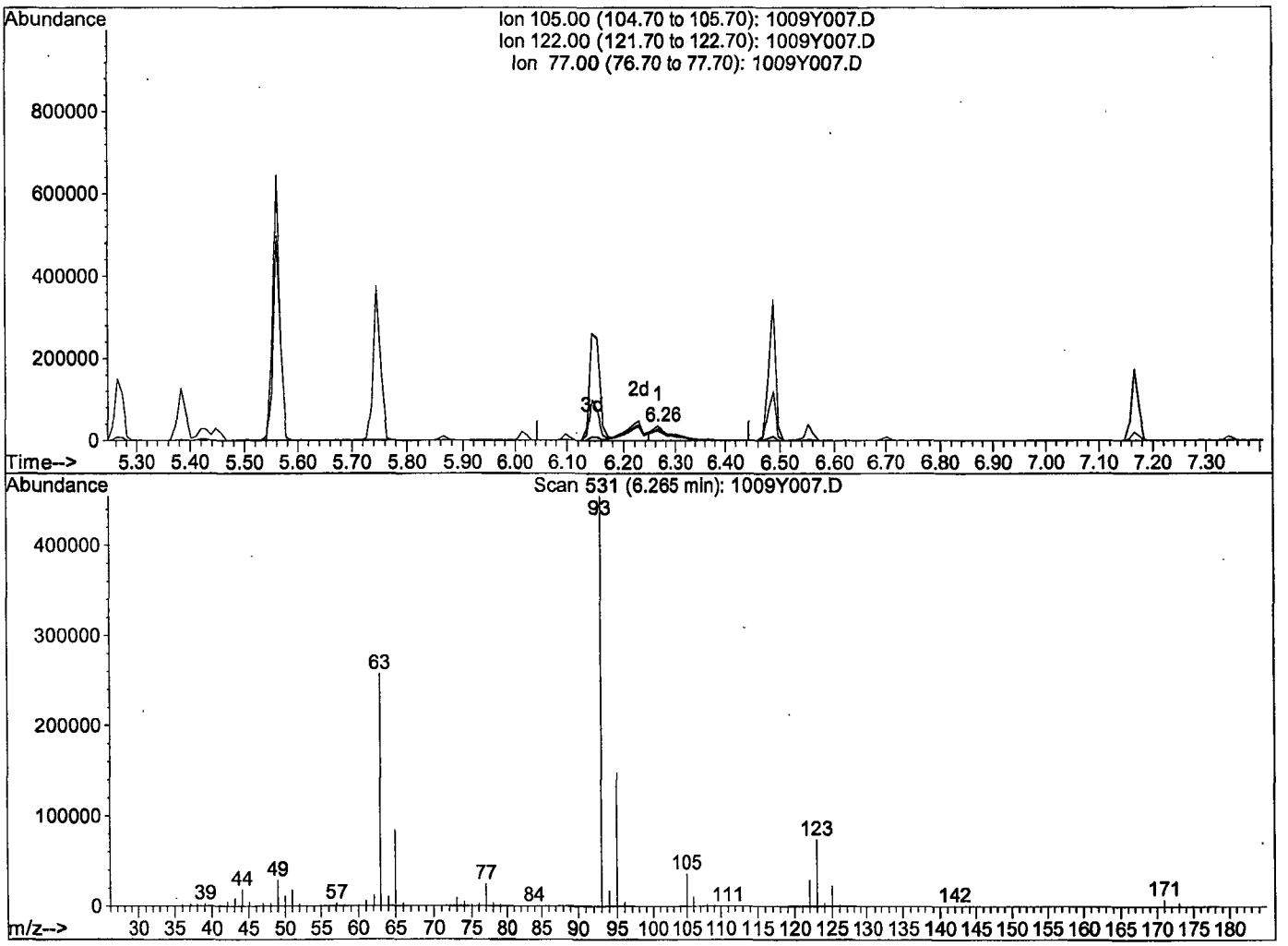
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:30 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration



TIC: 1009Y007.D

(27) Benzoic acid (TM)

6.26min 19.3185ppb

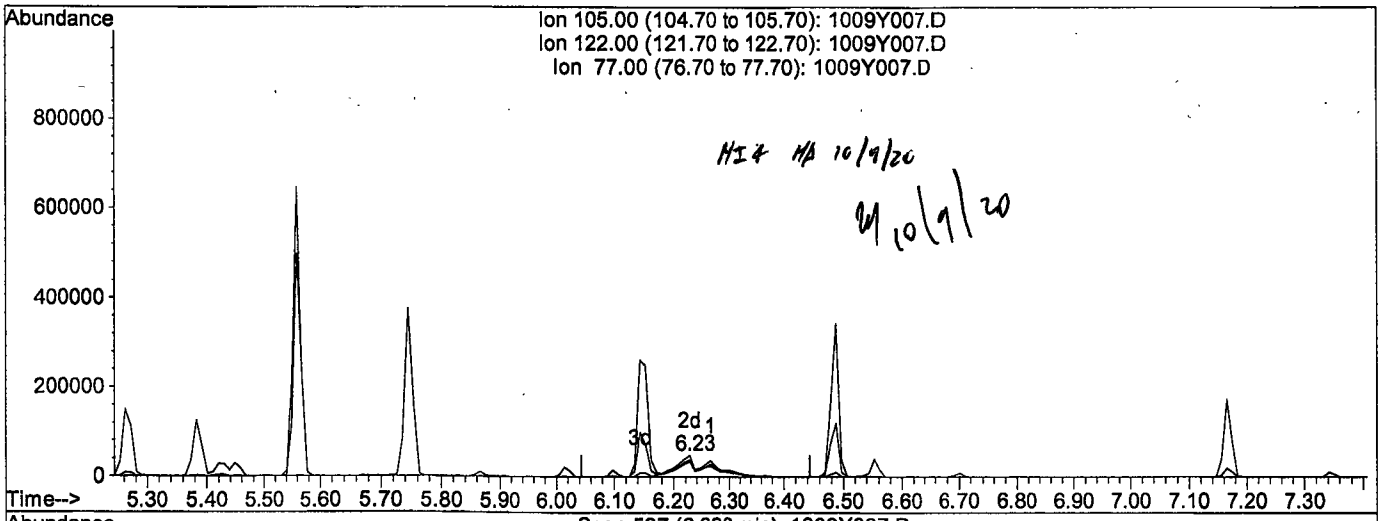
response 90420

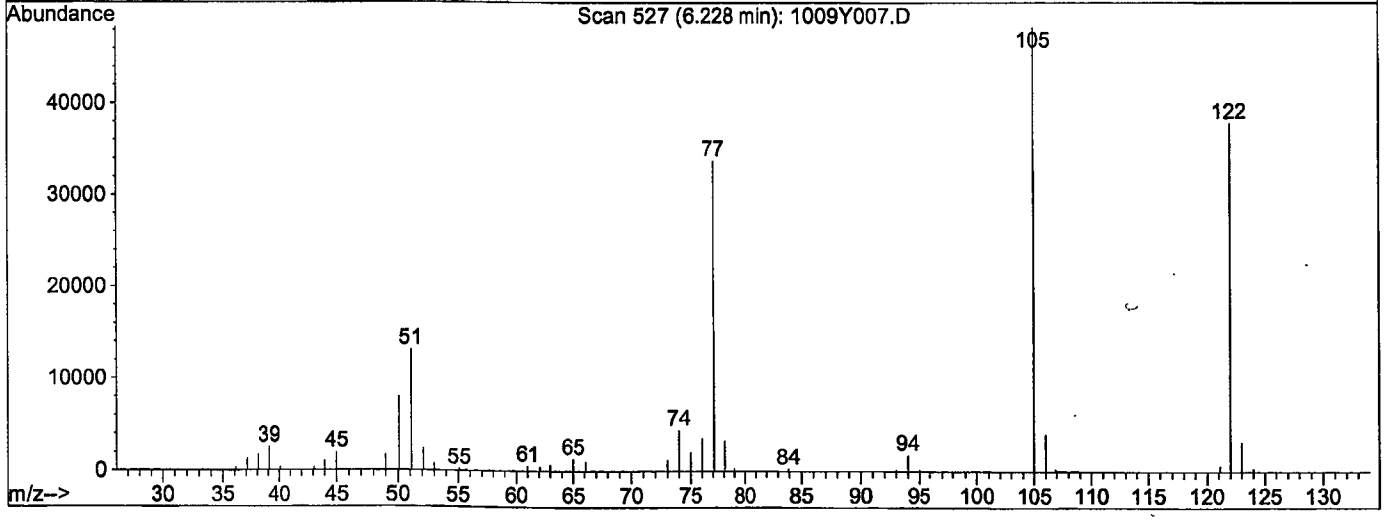
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	80.14
77.00	70.50	68.43
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:40 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration





TIC: 1009Y007.D

(27) Benzoic acid (TM)

6.23min 38.0214ppb m

response 206981

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	78.47
77.00	70.50	69.98
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y008.D Vial: 8
Acq On : 9 Oct 20 13:22 Operator: MA
Sample : 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216487	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	858051	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	523185	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1022290	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1056215	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1013157	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	810719	100.80965 ppb	0.00
Spiked Amount 200.000			Recovery =	50.405%	
6) Phenol-D6 (S)	4.71	99	1029543	101.07379 ppb	0.00
Spiked Amount 200.000			Recovery =	50.537%	
22) Nitrobenzene-D5(S)	5.72	82	450529	49.93145 ppb	0.00
Spiked Amount 100.000			Recovery =	49.931%	
46) 2-Fluorobiphenyl(S)	7.78	172	1089455	49.97781 ppb	0.00
Spiked Amount 100.000			Recovery =	49.978%	
64) 2,4,6-Tribromophenol(S)	9.47	330	376831	102.47083 ppb	0.00
Spiked Amount 200.000			Recovery =	51.236%	
82) Terphenyl-D14(S)	12.16	244	1512475	50.30009 ppb	0.00
Spiked Amount 100.000			Recovery =	50.300%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	9503	4.78871	100
3) n-Nitrosodimethylamine	2.03	42	149986	57.15476 ppb	100
4) Pyridine	2.05	79	412325	50.76392 ppb	100
7) Phenol	4.73	94	607510	49.68959 ppb	100
8) Aniline	4.76	93	462784	54.73220 ppb	100
9) Bis (2-chloroethyl) ether	4.83	63	239837	49.81600 ppb	100
10) 2-Chlorophenol	4.89	128	492229	49.81609 ppb	100
11) 1,3-DCB	5.06	146	540948	50.28079 ppb	100
12) 1,4-DCB	5.14	146	544897	49.88162 ppb	100
13) Benzyl alcohol	5.27	108	277085	51.37147 ppb	100
14) 1,2-DCB	5.30	146	509402	49.82216 ppb	100
15) 2-Methylphenol	5.39	107	368851	48.46987 ppb	100
16) Bis (2-chloroisopropyl) et	5.43	45	311077	49.74805 ppb	100
17) Acetophenone	5.57	105	642698	53.29821 ppb	100
18) 3&4-Methylphenol	5.57	107	1047328	108.27957 ppb	100
19) n-Nitrosodi-n-propylamine	5.58	70	323078	51.10573 ppb	100
20) Hexachloroethane	5.68	117	194952	50.45345 ppb	100
23) Nitrobenzene	5.75	77	468128	50.77114 ppb	100
24) Isophorone	6.02	82	813175	50.83689 ppb	100
25) 2-Nitrophenol	6.10	139	289105	51.22948 ppb	100
26) 2,4-Dimethylphenol	6.15	122	442162	51.97885 ppb	100
27) Benzoic acid	6.24	105	299244	52.62886 ppb	100
28) Bis (2-chloroethoxy) metha	6.26	93	507198	50.48824 ppb	100
29) 2,4-Dichlorophenol	6.36	162	434049	50.68083 ppb	100
30) 1,2,4-Trichlorobenzene	6.47	180	487464	50.21579 ppb	100
31) 3,4-Dimethylphenol	6.49	107	602770	50.12575 ppb	100
32) Naphthalene	6.56	128	1419716	50.24709 ppb	100
33) 4-Chloroaniline	6.62	127	596438	53.68509 ppb	100
34) 2,6-Dichlorophenol	6.62	162	423025	49.64346 ppb	100
35) Hexachloropropene	6.66	213	368550	50.67301 ppb	100
36) Hexachlorobutadiene	6.70	225	298371	50.24233 ppb	100
37) Caprolactum	7.03	55	141614	49.77590 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y008.D Vial: 8
Acq On : 9 Oct 20 13:22 Operator: MA
Sample : 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	446433	51.73981 ppb	100
39) 2-Methylnaphthalene	7.35	142	963880	50.77549 ppb	100
40) 1-Methylnaphthalene	7.46	142	999858	51.23150 ppb	100
42) Hexachlorocyclopentadiene	7.53	237	363392	60.31529 ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.53	216	532541	51.01654 ppb	100
44) 2,4,6-Trichlorophenol	7.67	196	360572	54.32568 ppb	100
45) 2,4,5-Trichlorophenol	7.71	196	364113	51.48213 ppb	100
47) 1,1'-Biphenyl	7.89	154	1244453	50.02296 ppb	100
48) 2-Chloronaphthalene	7.91	162	1001133	51.08831 ppb	100
49) 2-Nitroaniline	8.03	65	253004	51.32489 ppb	100
50) Dimethyl phthalate	8.25	163	1185465	50.95528 ppb	100
51) 2,6-DNT	8.31	165	274265	51.02153 ppb	100
52) Acenaphthylene	8.39	152	1549108	51.72394 ppb	100
53) 3-Nitroaniline	8.03	138	337593	51.68903 ppb	100
54) Acenaphthene	8.59	154	1047109	54.24918 ppb	100
55) 2,4-Dinitrophenol	8.62	184	129461	46.09672 ppb	100
56) 4-Nitrophenol	8.69	65	191680	57.52659 ppb	100
57) Dibenzofuran	8.79	168	1433529	51.49850 ppb	100
58) 2,4-DNT	8.78	165	384010	52.07589 ppb	100
59) 2,3,4,6-Tetrachlorophenol	8.93	232	314021	55.71448 ppb	100
60) Diethyl phthalate	9.08	149	1167645	51.88694 ppb	100
61) 4-Chlorophenyl phenyl ethe	9.20	204	668203	51.82168 ppb	100
62) Fluorene	9.19	166	1209118	51.56812 ppb	100
63) 4-Nitroaniline	8.50	138	276752	50.74759 ppb	100
66) 4,6-Dinitro-2-methylphenol	9.25	198	253948	50.39425 ppb	100
67) Diphenyl amine	9.34	169	1971388	102.40596 ppb	100
68) n-Nitrosodiphenylamine	9.34	169	1971388	102.40596 ppb	100
69) 1,2-Diphenylhydrazine	9.38	77	944276	46.91569 ppb	100
70) 4-Bromophenyl phenyl ether	9.77	248	387104	49.43848 ppb	100
71) Hexachlorobenzene	9.83	284	421290	50.44535 ppb	100
72) Atrazine	9.97	200	182289	25.55467 ppb	100
73) Pentachlorophenol	10.05	266	285558	62.56813 ppb	100
74) Phenanthrene	10.31	178	1753039	50.52497 ppb	100
75) Anthracene	10.37	178	1815340	50.58338 ppb	100
76) Carbazol	10.55	167	1623543	50.21471 ppb	100
77) Di-n-butylphthalate	10.99	149	1976453	50.57972 ppb	100
78) Fluoranthene	11.69	202	2036242	50.69560 ppb	100
80) Benzidine	11.86	184	615350	51.07485 ppb	100
81) Pyrene	11.95	202	2097962	50.44072 ppb	100
83) Butyl benzylphthalate	12.74	149	900332	51.09854 ppb	100
84) 3,3'-Dichlorobenzidine	13.33	252	709576	51.27541 ppb	100
85) Benz (a) anthracene	13.36	228	2138614	49.61159 ppb	100
86) Bis (2-ethylhexyl) phthala	13.42	149	1255280	51.88457 ppb	100
87) Chrysene	13.39	228	2029488	51.28463 ppb	100
88) Di-n-octylphthalate	14.14	149	2084175	50.70638 ppb	100
90) Benzo (b) fluoranthene	14.58	252	2061658	48.88471 ppb	100
91) Benzo (k) fluoranthene	14.62	252	1871096	52.92638 ppb	100
92) Benzo (a) pyrene	15.00	252	1897839	51.37113 ppb	100
93) Indeno (1,2,3-cd) pyrene	16.75	276	2098572	56.50648 ppb	100
94) Dibenz (a,h) anthracene	16.79	278	1855050	49.63555 ppb	100
95) Benzo (g,h,i) perylene	17.25	276	1809092	49.71785 ppb	100

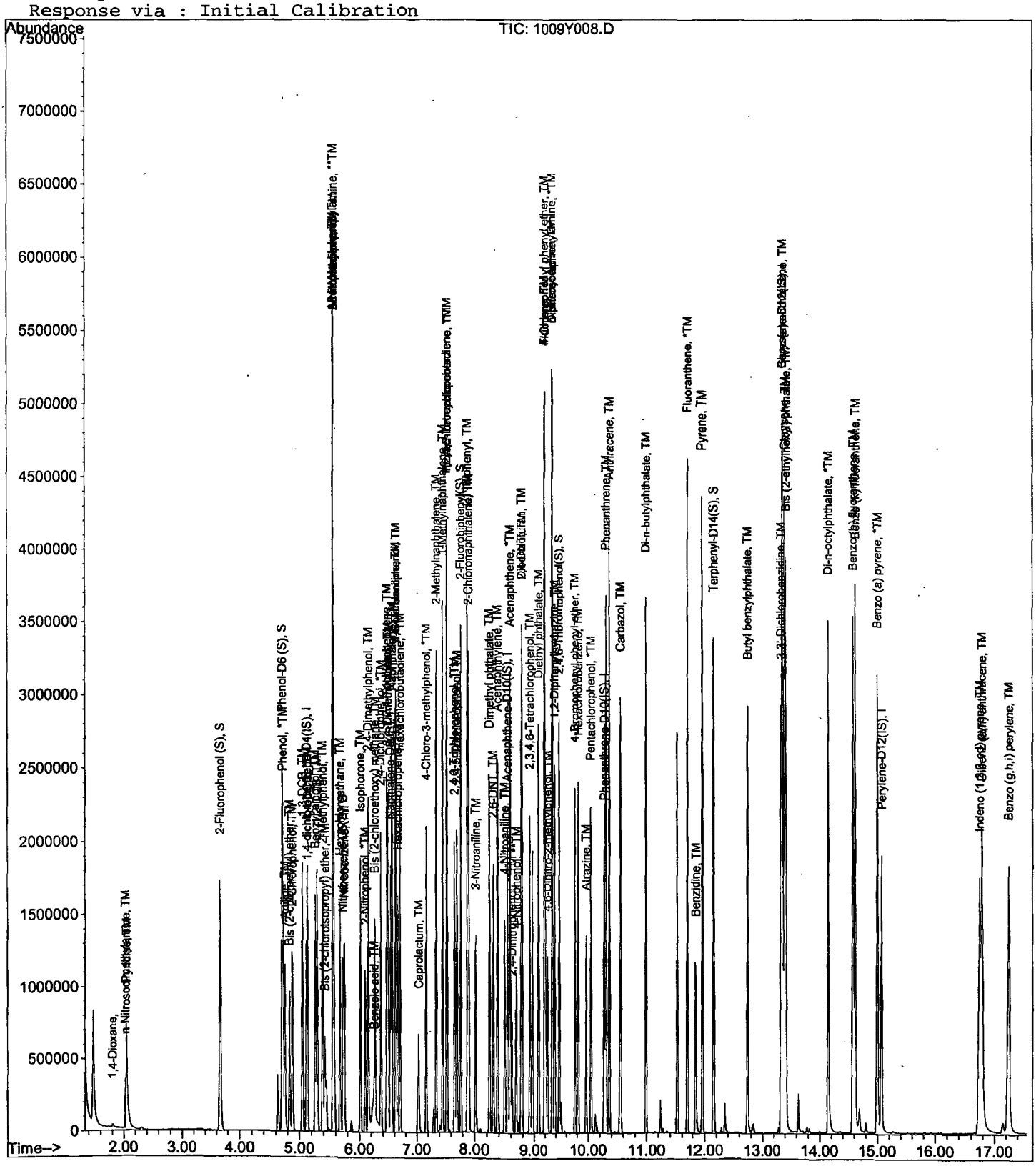
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y008.D Vial: 8
Acq On : 9 Oct 20 13:22 Operator: MA
Sample : 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y009.D Vial: 9
Acq On : 9 Oct 20 13:48 Operator: MA
Sample : 60ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216571	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.54	136	878795	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	534725	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1053468	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	1089141	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1050067	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	1008016	125.29412 ppb	0.00
Spiked Amount 200.000				Recovery = 62.647%	
6) Phenol-D6 (S)	4.72	99	1279112	125.52613 ppb	0.00
Spiked Amount 200.000				Recovery = 62.763%	
22) Nitrobenzene-D5(S)	5.73	82	558172	60.40112 ppb	0.00
Spiked Amount 100.000				Recovery = 60.401%	
46) 2-Fluorobiphenyl(S)	7.78	172	1364427	61.24110 ppb	0.00
Spiked Amount 100.000				Recovery = 61.241%	
64) 2,4,6-Tribromophenol(S)	9.47	330	469118	124.81321 ppb	0.00
Spiked Amount 200.000				Recovery = 62.407%	
82) Terphenyl-D14(S)	12.15	244	1907032	61.50448 ppb	0.00
Spiked Amount 100.000				Recovery = 61.504%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.80	58	11498	5.79178	97
3) n-Nitrosodimethylamine	2.03	42	191741	73.03789 ppb	92
4) Pyridine	2.05	79	518538	63.81571 ppb	97
7) Phenol	4.73	94	748099	61.16494 ppb	90
8) Aniline	4.75	93	519488	61.41460 ppb	100
9) Bis (2-chloroethyl) ether	4.84	63	297281	61.72361 ppb	93
10) 2-Chlorophenol	4.88	128	615188	62.23602 ppb	97
11) 1,3-DCB	5.05	146	637943	59.27342 ppb	97
12) 1,4-DCB	5.13	146	653294	59.78144 ppb	97
13) Benzyl alcohol	5.26	108	342612	63.49552 ppb	94
14) 1,2-DCB	5.30	146	622802	60.88965 ppb	95
15) 2-Methylphenol	5.38	107	451461	59.30246 ppb	97
16) Bis (2-chloroisopropyl) et	5.42	45	380207	60.77988 ppb	99
17) Acetophenone	5.56	105	792795	65.72008 ppb	97
18) 3&4-Methylphenol	5.56	107	1271853	131.44142 ppb	95
19) n-Nitrosodi-n-propylamine	5.57	70	399356	63.14718 ppb	92
20) Hexachloroethane	5.67	117	234581	60.68586 ppb	87
23) Nitrobenzene	5.75	77	569847	60.34427 ppb	90
24) Isophorone	6.02	82	984676	60.10545 ppb	98
25) 2-Nitrophenol	6.10	139	357079	61.78090 ppb	89
26) 2,4-Dimethylphenol	6.15	122	544911	62.54555 ppb	97
27) Benzoic acid	6.27	105	385661	64.98344 ppb	95
28) Bis (2-chloroethoxy) metha	6.27	93	628272	61.06410 ppb	98
29) 2,4-Dichlorophenol	6.37	162	544386	62.06367 ppb	97
30) 1,2,4-Trichlorobenzene	6.47	180	598326	60.18124 ppb	96
31) 3,4-Dimethylphenol	6.49	107	762165	61.88477 ppb	99
32) Naphthalene	6.55	128	1729992	59.78318 ppb	99
33) 4-Chloroaniline	6.62	127	754065	66.27087 ppb	96
34) 2,6-Dichlorophenol	6.63	162	541705	62.07037 ppb	97
35) Hexachloropropene	6.66	213	447295	60.04818 ppb	99
36) Hexachlorobutadiene	6.70	225	369578	60.76379 ppb	99
37) Caprolactum	7.04	55	181238	62.19962 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y009.D Vial: 9
Acq On : 9 Oct 20 13:48 Operator: MA
Sample : 60ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	559643	63.32936 ppb		95
39)	2-Methylnaphthalene	7.34	142	1177796	60.57965 ppb		99
40)	1-Methylnaphthalene	7.45	142	1234148	61.74353 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	516096	83.27665 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	668403	62.65001 ppb		98
44)	2,4,6-Trichlorophenol	7.67	196	440643	64.95683 ppb		97
45)	2,4,5-Trichlorophenol	7.71	196	470012	65.02106 ppb	#	91
47)	1,1'-Biphenyl	7.89	154	1591238	62.58220 ppb		98
48)	2-Chloronaphthalene	7.91	162	1245206	62.17213 ppb		97
49)	2-Nitroaniline	8.02	65	315928	62.70664 ppb		81
50)	Dimethyl phthalate	8.25	163	1479647	62.22764 ppb		99
51)	2,6-DNT	8.32	165	349882	63.68387 ppb		86
52)	Acenaphthylene	8.38	152	1881817	61.47692 ppb		99
53)	3-Nitroaniline	8.02	138	423264	63.40756 ppb		92
54)	Acenaphthene	8.59	154	1310275	66.41842 ppb		99
55)	2,4-Dinitrophenol	8.62	184	182908	58.39930 ppb		91
56)	4-Nitrophenol	8.70	65	246481	72.37691 ppb		96
57)	Dibenzofuran	8.79	168	1811009	63.65514 ppb		97
58)	2,4-DNT	8.78	165	497859	66.05799 ppb		95
59)	2,3,4,6-Tetrachlorophenol	8.93	232	395509	68.65791 ppb		96
60)	Diethyl phthalate	9.08	149	1460883	63.51663 ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	843816	64.02884 ppb		92
62)	Fluorene	9.19	166	1504737	62.79109 ppb		100
63)	4-Nitroaniline	8.50	138	347408	62.32887 ppb		92
66)	4,6-Dinitro-2-methylphenol	9.26	198	331067	63.75362 ppb		96
67)	Diphenyl amine	9.34	169	2444378	123.21803 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	2444378	123.21803 ppb		99
69)	1,2-Diphenylhydrazine	9.39	77	1175442	56.67260 ppb		91
70)	4-Bromophenyl phenyl ether	9.77	248	490153	60.74659 ppb	#	88
71)	Hexachlorobenzene	9.82	284	519777	60.39622 ppb	#	83
72)	Atrazine	9.97	200	229178	31.17709 ppb		96
73)	Pentachlorophenol	10.05	266	370963	78.87552 ppb		97
74)	Phenanthrene	10.30	178	2171501	60.73335 ppb		100
75)	Anthracene	10.37	178	2316830	62.64649 ppb		99
76)	Carbazol	10.56	167	2027916	60.86531 ppb		98
77)	Di-n-butylphthalate	10.99	149	2587194	64.24978 ppb		99
78)	Fluoranthene	11.70	202	2578280	62.29077 ppb		98
80)	Benzidine	11.85	184	797359	62.63243 ppb	#	98
81)	Pyrene	11.96	202	2633995	61.41393 ppb		99
83)	Butyl benzylphthalate	12.74	149	1122344	61.77318 ppb	#	81
84)	3,3'-Dichlorobenzidine	13.33	252	913703	64.03000 ppb		98
85)	Benz (a) anthracene	13.35	228	2708309	60.92803 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.41	149	1563586	62.67403 ppb	#	94
87)	Chrysene	13.40	228	2513650	61.59902 ppb		99
88)	Di-n-octylphthalate	14.15	149	2692154	63.51796 ppb		96
90)	Benzo (b) fluoranthene	14.58	252	2761032	63.16662 ppb		99
91)	Benzo (k) fluoranthene	14.62	252	2236355	61.03467 ppb		99
92)	Benzo (a) pyrene	15.00	252	2399690	62.67216 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.76	276	2670757	69.38547 ppb		99
94)	Dibenz (a,h) anthracene	16.80	278	2342060	60.46373 ppb		97
95)	Benzo (g,h,i) perylene	17.26	276	2296516	60.89490 ppb		100

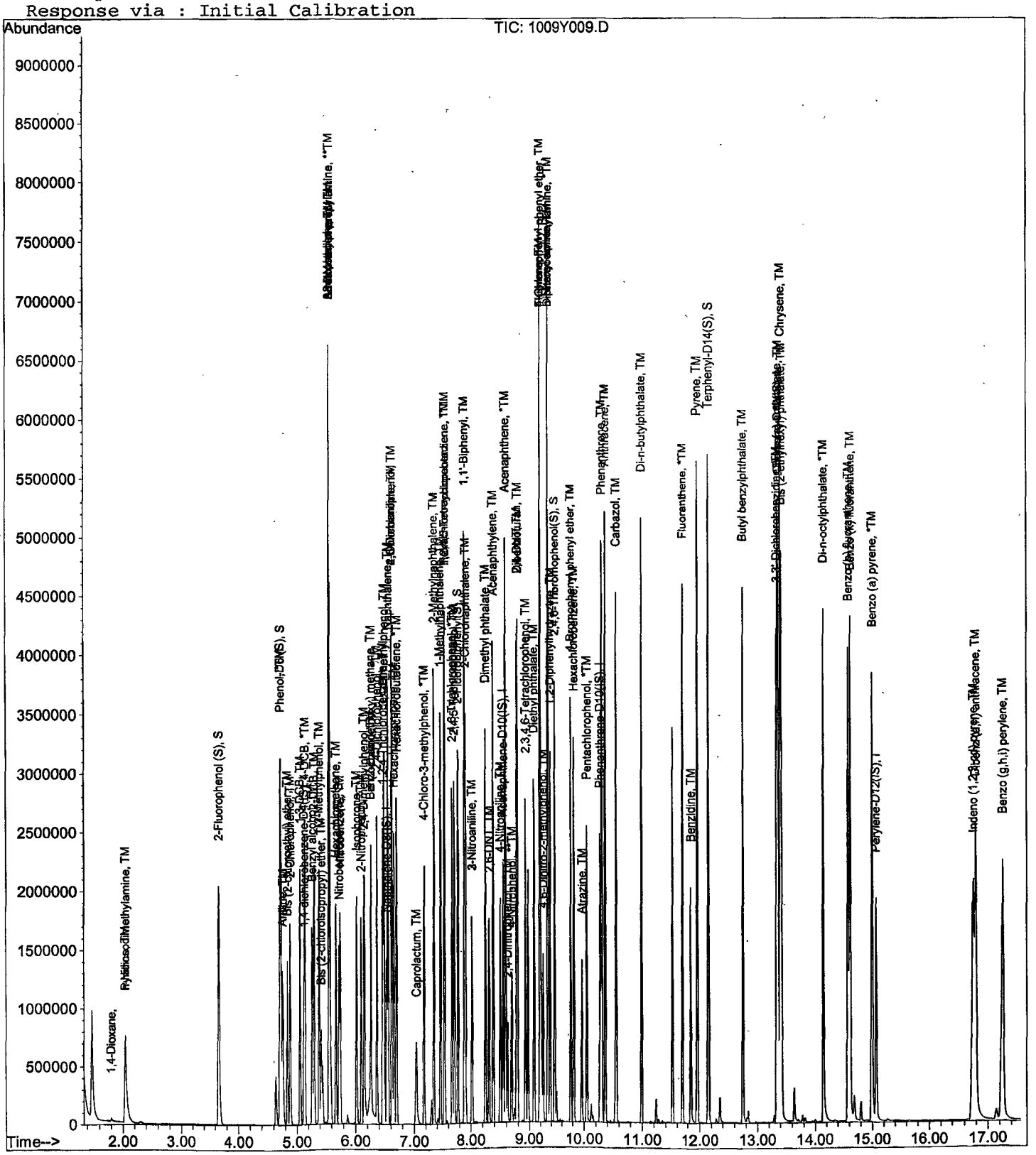
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y009.D Vial: 9
Acq On : 9 Oct 20 13:48 Operator: MA
Sample : 60ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y010.D Vial: 10
Acq On : 9 Oct 20 14:13 Operator: MA
Sample : 80ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:31 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	199908	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	822746	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	511195	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	992166	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.37	240	1029591	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.07	264	1003036	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.66	112	1307580	176.07661 ppb		0.00
Spiked Amount 200.000			Recovery =	88.039%		
6) Phenol-D6 (S)	4.72	99	1668447	177.38141 ppb		0.01
Spiked Amount 200.000			Recovery =	88.691%		
22) Nitrobenzene-D5(S)	5.73	82	724439	83.73375 ppb		0.00
Spiked Amount 100.000			Recovery =	83.734%		
46) 2-Fluorobiphenyl(S)	7.78	172	1772965	83.24089 ppb		0.00
Spiked Amount 100.000			Recovery =	83.241%		
64) 2,4,6-Tribromophenol(S)	9.48	330	664642	184.97376 ppb		0.00
Spiked Amount 200.000			Recovery =	92.487%		
82) Terphenyl-D14(S)	12.16	244	2566414	87.55780 ppb		0.00
Spiked Amount 100.000			Recovery =	87.558%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.80	58	16101	8.78643		93
3) n-Nitrosodimethylamine	2.03	42	245706	101.39560 ppb		98
4) Pyridine	2.05	79	674374	89.91207 ppb		97
7) Phenol	4.73	94	946942	83.87586 ppb		94
8) Aniline	4.76	93	595648	76.28794 ppb		100
9) Bis (2-chloroethyl) ether	4.83	63	381747	85.86772 ppb		97
10) 2-Chlorophenol	4.88	128	777140	85.17327 ppb		94
11) 1,3-DCB	5.06	146	823911	82.93322 ppb		99
12) 1,4-DCB	5.14	146	836229	82.89972 ppb		99
13) Benzyl alcohol	5.27	108	435239	87.38531 ppb		97
14) 1,2-DCB	5.30	146	779749	82.58828 ppb		98
15) 2-Methylphenol	5.39	107	577025	82.11400 ppb		97
16) Bis (2-chloroisopropyl) et	5.43	45	483628	83.75703 ppb		99
17) Acetophenone	5.57	105	1004527	90.21296 ppb		97
18) 3&4-Methylphenol	5.57	107	1626995	182.15944 ppb		97
19) n-Nitrosodi-n-propylamine	5.60	70	504518	86.42523 ppb		97
20) Hexachloroethane	5.67	117	301343	84.45510 ppb		76
23) Nitrobenzene	5.75	77	744324	84.19022 ppb		97
24) Isophorone	6.02	82	1271610	82.90795 ppb		96
25) 2-Nitrophenol	6.11	139	461361	85.26142 ppb		98
26) 2,4-Dimethylphenol	6.15	122	688220	84.37619 ppb		97
27) Benzoic acid	6.28	105	470524	83.22559 ppb		92
28) Bis (2-chloroethoxy) metha	6.26	93	802093	83.26927 ppb		100
29) 2,4-Dichlorophenol	6.37	162	698975	85.11654 ppb		98
30) 1,2,4-Trichlorobenzene	6.47	180	757691	81.40239 ppb		97
31) 3,4-Dimethylphenol	6.49	107	976963	84.72951 ppb		99
32) Naphthalene	6.56	128	2249726	83.03981 ppb		100
33) 4-Chloroaniline	6.63	127	917641	86.14072 ppb	#	92
34) 2,6-Dichlorophenol	6.63	162	689918	84.43855 ppb		99
35) Hexachloropropene	6.65	213	576739	82.70026 ppb		98
36) Hexachlorobutadiene	6.70	225	468931	82.35111 ppb		99
37) Caprolactum	7.05	55	228208	83.65485 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y010.D Vial: 10
Acq On : 9 Oct 20 14:13 Operator: MA
Sample : 80ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:31 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	714169	86.32107	ppb		93
39)	2-Methylnaphthalene	7.35	142	1555911	85.47975	ppb		100
40)	1-Methylnaphthalene	7.46	142	1569961	83.89477	ppb		100
42)	Hexachlorocyclopentadiene	7.54	237	481920	81.37334	ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	851260	83.46201	ppb		99
44)	2,4,6-Trichlorophenol	7.67	196	579509	89.35977	ppb		96
45)	2,4,5-Trichlorophenol	7.71	196	595401	86.15859	ppb		96
47)	1,1'-Biphenyl	7.89	154	2005696	82.51344	ppb		99
48)	2-Chloronaphthalene	7.91	162	1580519	82.54641	ppb		98
49)	2-Nitroaniline	8.03	65	410286	85.18361	ppb		93
50)	Dimethyl phthalate	8.26	163	1938212	85.26492	ppb		98
51)	2,6-DNT	8.32	165	439964	83.76622	ppb		92
52)	Acenaphthylene	8.39	152	2480932	84.78001	ppb		100
53)	3-Nitroaniline	8.03	138	542486	85.00846	ppb		97
54)	Acenaphthene	8.59	154	1597192	84.68902	ppb		99
55)	2,4-Dinitrophenol	8.62	184	244773	76.18312	ppb		92
56)	4-Nitrophenol	8.70	65	312094	95.86188	ppb		90
57)	Dibenzofuran	8.79	168	2310205	84.93903	ppb		99
58)	2,4-DNT	8.78	165	635264	88.16924	ppb		90
59)	2,3,4,6-Tetrachlorophenol	8.93	232	513386	93.22279	ppb		99
60)	Diethyl phthalate	9.09	149	1863223	84.73850	ppb		98
61)	4-Chlorophenyl phenyl ethe	9.20	204	1101504	87.42947	ppb		97
62)	Fluorene	9.19	166	1957666	85.45154	ppb		99
63)	4-Nitroaniline	8.51	138	444753	83.46650	ppb	#	73
66)	4,6-Dinitro-2-methylphenol	9.26	198	429156	87.74880	ppb	#	87
67)	Diphenyl amine	9.35	169	3170279	169.68381	ppb		100
68)	n-Nitrosodiphenylamine	9.35	169	3170279	169.68381	ppb		100
69)	1,2-Diphenylhydrazine	9.38	77	1513036	77.45656	ppb		100
70)	4-Bromophenyl phenyl ether	9.77	248	638815	84.06251	ppb		98
71)	Hexachlorobenzene	9.83	284	684444	84.44378	ppb		99
72)	Atrazine	9.97	200	286672	41.40806	ppb		99
73)	Pentachlorophenol	10.05	266	481637	108.73478	ppb		99
74)	Phenanthrene	10.31	178	2802193	83.21513	ppb		100
75)	Anthracene	10.37	178	2915092	83.69353	ppb		100
76)	Carbazol	10.56	167	2679776	85.39951	ppb		96
77)	Di-n-butylphthalate	10.99	149	3209640	84.63227	ppb		100
78)	Fluoranthene	11.69	202	3251828	83.41770	ppb		99
80)	Benzidine	11.85	184	891315	72.96077	ppb	#	96
81)	Pyrene	11.95	202	3422797	84.42138	ppb		100
83)	Butyl benzylphthalate	12.74	149	1466865	85.40504	ppb		99
84)	3,3'-Dichlorobenzidine	13.34	252	1151082	85.33046	ppb	#	95
85)	Benz (a) anthracene	13.36	228	3475329	82.70547	ppb		100
86)	Bis (2-ethylhexyl) phthala	13.42	149	2058241	87.27331	ppb		98
87)	Chrysene	13.40	228	3362601	87.16933	ppb		100
88)	Di-n-octylphthalate	14.15	149	3486511	87.01760	ppb		99
90)	Benzo (b) fluoranthene	14.58	252	3298763	79.00740	ppb		98
91)	Benzo (k) fluoranthene	14.62	252	3148776	89.96594	ppb		98
92)	Benzo (a) pyrene	15.01	252	3081952	84.26473	ppb		98
93)	Indeno (1,2,3-cd) pyrene	16.76	276	3443782	93.66348	ppb		100
94)	Dibenz (a,h) anthracene	16.81	278	3035076	82.02892	ppb		96
95)	Benzo (g,h,i) perylene	17.27	276	2946677	81.79833	ppb		97

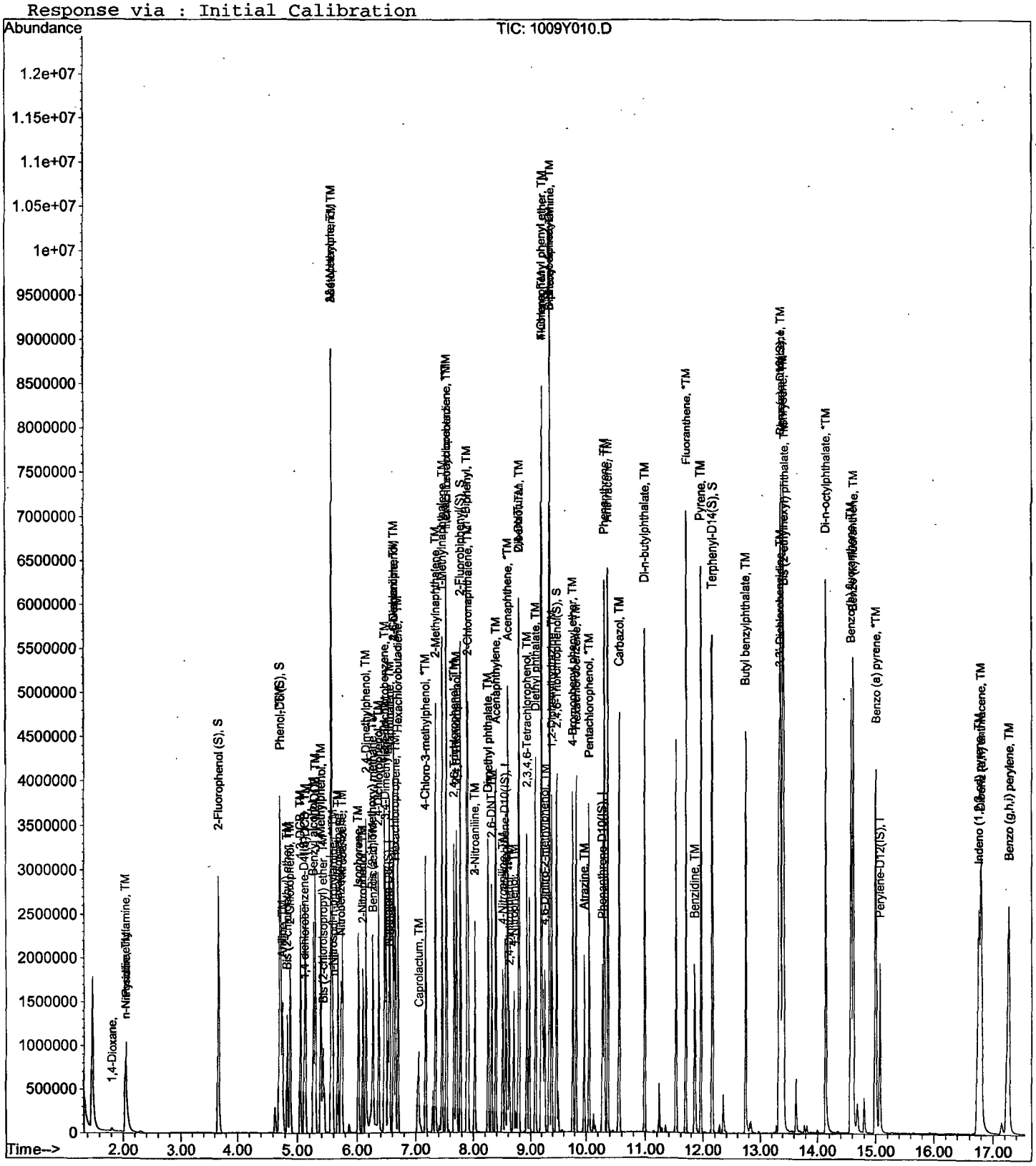
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y010.D Vial: 10
Acq On : 9 Oct 20 14:13 Operator: MA
Sample : 80ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:31 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y011.D Vial: 11
Acq On : 9 Oct 20 14:38 Operator: MA
Sample : 100ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:48 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:48:37 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	234180	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	972023	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.56	164	590025	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1196320	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.38	240	1245991	40.00000 ppb	0.02
89) Perylene-D12(IS)	15.08	264	1198755	40.00000 ppb	0.02
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1936097	213.31149 ppb	0.01
Spiked Amount 200.000			Recovery	= 106.656%	
6) Phenol-D6 (S)	4.73	99	2450115	214.12626 ppb	0.02
Spiked Amount 200.000			Recovery	= 107.063%	
22) Nitrobenzene-D5(S)	5.73	82	1058683	104.12375 ppb	0.01
Spiked Amount 100.000			Recovery	= 104.124%	
46) 2-Fluorobiphenyl(S)	7.78	172	2603920	104.70949 ppb	0.00
Spiked Amount 100.000			Recovery	= 104.709%	
64) 2,4,6-Tribromophenol(S)	9.49	330	1038078	243.20617 ppb	0.01
Spiked Amount 200.000			Recovery	= 121.603%	
82) Terphenyl-D14(S)	12.16	244	3840871	106.94020 ppb	0.00
Spiked Amount 100.000			Recovery	= 106.940%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	18198	8.66444	96
3) n-Nitrosodimethylamine	2.03	42	339228	104.48193 ppb	99
4) Pyridine	2.05	79	921056	101.43260 ppb	98
7) Phenol	4.74	94	1379601	105.26624 ppb	88
8) Aniline	4.76	93	764224	75.33429 ppb	100
9) Bis (2-chloroethyl) ether	4.84	63	542689	102.47863 ppb	97
10) 2-Chlorophenol	4.89	128	1124033	103.02814 ppb	97
11) 1,3-DCB	5.06	146	1160721	99.54557 ppb	97
12) 1,4-DCB	5.14	146	1193185	100.25418 ppb	98
13) Benzyl alcohol	5.28	108	637158	104.43694 ppb	97
14) 1,2-DCB	5.30	146	1125378	100.61606 ppb	99
15) 2-Methylphenol	5.39	107	839012	103.90643 ppb	97
16) Bis (2-chloroisopropyl) et	5.43	45	696813	100.35717 ppb	100
17) Acetophenone	5.57	105	1482877	105.28115 ppb	89
18) 3&4-Methylphenol	5.58	107	2373694	211.68938 ppb	96
19) n-Nitrosodi-n-propylamine	5.60	70	713820	100.61361 ppb	96
20) Hexachloroethane	5.68	117	425851	101.53827 ppb	93
23) Nitrobenzene	5.75	77	1059867	101.22529 ppb	90
24) Isophorone	6.04	82	1847460	103.03444 ppb	98
25) 2-Nitrophenol	6.11	139	657732	104.31740 ppb	89
26) 2,4-Dimethylphenol	6.16	122	1017298	103.28111 ppb	98
27) Benzoic acid	6.32	105	647906	90.40887 ppb	95
28) Bis (2-chloroethoxy) metha	6.27	93	1161742	102.05205 ppb	98
29) 2,4-Dichlorophenol	6.38	162	1014783	103.55586 ppb	98
30) 1,2,4-Trichlorobenzene	6.47	180	1122465	102.78304 ppb	99
31) 3,4-Dimethylphenol	6.50	107	1392083	101.16261 ppb	99
32) Naphthalene	6.56	128	3258921	102.24622 ppb	99
33) 4-Chloroaniline	6.63	127	1265642	94.38186 ppb	98
34) 2,6-Dichlorophenol	6.64	162	1011491	104.73826 ppb	97
35) Hexachloropropene	6.66	213	854165	107.47308 ppb	99
36) Hexachlorobutadiene	6.70	225	686312	102.32413 ppb	99
37) Caprolactum	7.08	55	334644	104.86032 ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y011.D Vial: 11
Acq On : 9 Oct 20 14:38 Operator: MA
Sample : 100ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:48 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:48:37 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	1042700	104.11119	ppb		94
39)	2-Methylnaphthalene	7.35	142	2223045	103.34364	ppb		100
40)	1-Methylnaphthalene	7.46	142	2296876	103.10412	ppb		99
42)	Hexachlorocyclopentadiene	7.54	237	974336	110.88585	ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.55	216	1284262	107.88153	ppb		98
44)	2,4,6-Trichlorophenol	7.68	196	841149	106.44387	ppb		98
45)	2,4,5-Trichlorophenol	7.72	196	887080	107.15160	ppb		96
47)	1,1'-Biphenyl	7.90	154	3032625	106.85905	ppb		99
48)	2-Chloronaphthalene	7.92	162	2355156	104.92684	ppb		98
49)	2-Nitroaniline	8.03	65	608089	108.58922	ppb		81
50)	Dimethyl phthalate	8.26	163	2796128	104.11497	ppb		99
51)	2,6-DNT	8.32	165	645515	108.19239	ppb		98
52)	Acenaphthylene	8.39	152	3616990	105.04111	ppb		100
53)	3-Nitroaniline	8.04	138	821534	111.08507	ppb		96
54)	Acenaphthene	8.59	154	2335278	102.06025	ppb		99
55)	2,4-Dinitrophenol	8.63	184	389765	105.34252	ppb		95
56)	4-Nitrophenol	8.71	65	474507	119.01514	ppb		97
57)	Dibenzofuran	8.80	168	3493296	107.17658	ppb		96
58)	2,4-DNT	8.79	165	930649	109.63231	ppb		89
59)	2,3,4,6-Tetrachlorophenol	8.94	232	752679	108.86610	ppb		94
60)	Diethyl phthalate	9.10	149	2737766	104.37047	ppb		100
61)	4-Chlorophenyl phenyl ethe	9.21	204	1664349	110.03777	ppb		87
62)	Fluorene	9.20	166	2940280	109.05817	ppb		100
63)	4-Nitroaniline	8.51	138	625089	100.98447	ppb		96
66)	4,6-Dinitro-2-methylphenol	9.27	198	649905	128.95708	ppb		99
67)	Diphenyl amine	9.36	169	4748951	209.69183	ppb		100
68)	n-Nitrosodiphenylamine	9.36	169	4748951	209.69183	ppb		100
69)	1,2-Diphenylhydrazine	9.39	77	2225656	101.51080	ppb		90
70)	4-Bromophenyl phenyl ether	9.77	248	951261	106.18835	ppb	#	90
71)	Hexachlorobenzene	9.83	284	1013970	105.31842	ppb	#	85
72)	Atrazine	9.98	200	428874	51.53333	ppb		98
73)	Pentachlorophenol	10.06	266	744723	118.13417	ppb		98
74)	Phenanthrene	10.31	178	4159271	102.39611	ppb		99
75)	Anthracene	10.38	178	4367316	103.45209	ppb		99
76)	Carbazol	10.56	167	3878089	102.12814	ppb		99
77)	Di-n-butylphthalate	11.00	149	4933775	107.36559	ppb		99
78)	Fluoranthene	11.70	202	5012062	106.71067	ppb		98
80)	Benzidine	11.86	184	1349972	97.67324	ppb	#	98
81)	Pyrene	11.96	202	5009915	100.79799	ppb		100
83)	Butyl benzylphthalate	12.74	149	2184357	106.66433	ppb		88
84)	3,3'-Dichlorobenzidine	13.34	252	1673720	101.70510	ppb		98
85)	Benz (a) anthracene	13.36	228	5304645	105.99160	ppb		100
86)	Bis (2-ethylhexyl) phthala	13.42	149	3048518	106.15141	ppb		99
87)	Chrysene	13.40	228	5009685	104.01725	ppb		99
88)	Di-n-octylphthalate	14.15	149	5241077	111.45361	ppb	#	93
90)	Benzo (b) fluoranthene	14.59	252	5155192	110.83607	ppb		99
91)	Benzo (k) fluoranthene	14.63	252	4542937	100.83056	ppb		98
92)	Benzo (a) pyrene	15.02	252	4685422	110.17104	ppb		98
93)	Indeno (1,2,3-cd) pyrene	16.77	276	5149976	107.25377	ppb		97
94)	Dibenz (a,h) anthracene	16.83	278	4621429	110.48379	ppb		95
95)	Benzo (g,h,i) perylene	17.29	276	4391087	105.26855	ppb		98

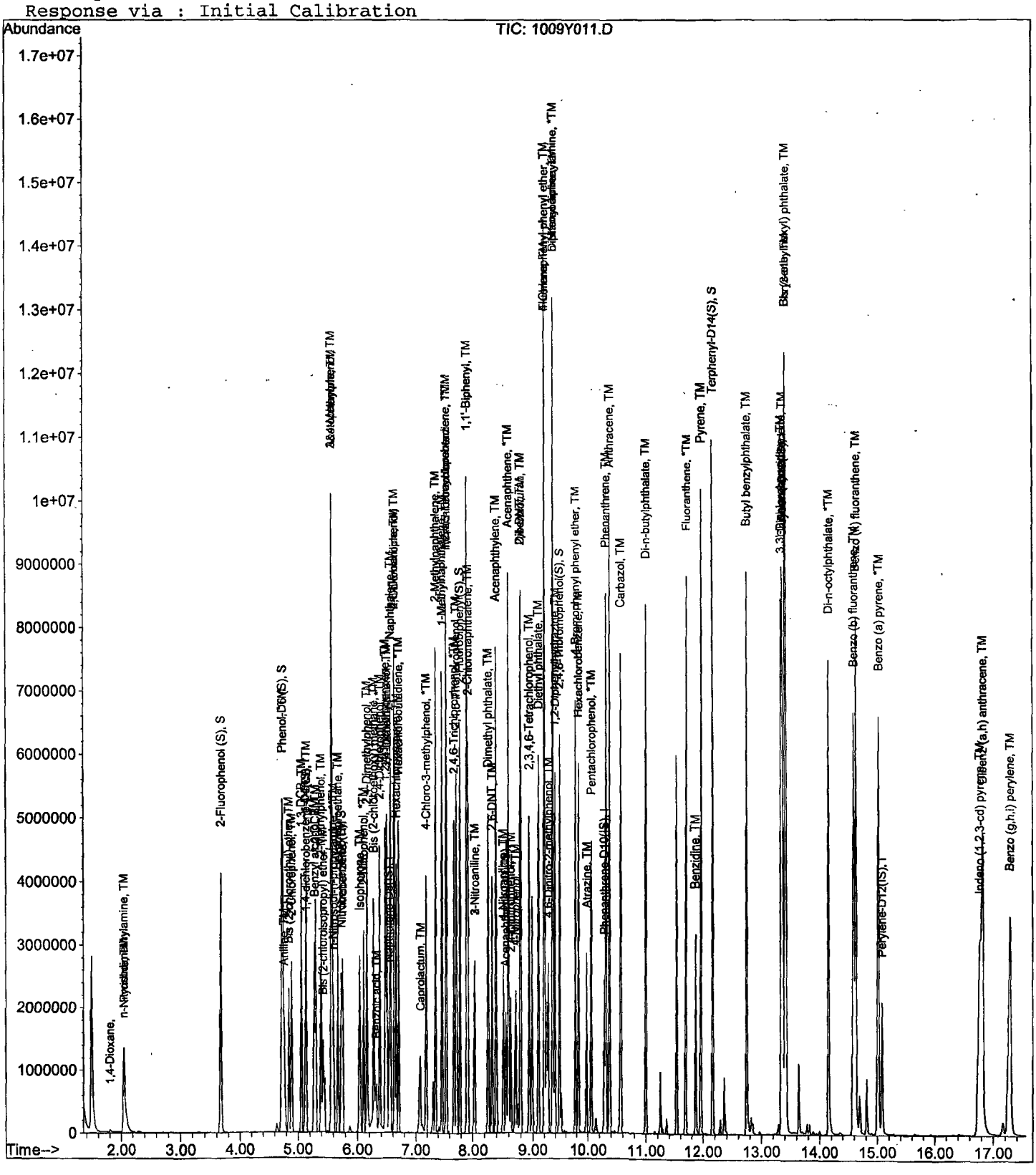
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y011.D Vial: 11
Acq On : 9 Oct 20 14:38 Operator: MA
Sample : 100ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:48 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 9 Oct 20 15:04
Matrix: Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
1		1,4-Dioxane	0.3588	0.3840	7.0		
2	TM	n-Nitrosodimethylamine	0.5546	0.6000	8.2	TM	
3	TM	Pyridine	1.551	1.511	2.6	TM	
4	*TM	Phenol	2.239	2.219	0.88	*TM	
5	TM	Aniline	1.755	1.852	5.5	TM	
6	TM	Bis (2-chloroethyl) ether	0.9045	0.8733	3.4	TM	
7	TM	2-Chlorophenol	1.864	1.873	0.51	TM	
8	TM	1,3-DCB	1.992	2.059	3.4	TM	
9	*TM	1,4-DCB	2.033	2.070	1.8	*TM	
10	TM	Benzyl alcohol	1.042	1.029	1.2	TM	
11	TM	1,2-DCB	1.910	1.941	1.6	TM	
12	TM	2-Methylphenol	1.379	1.341	2.8	TM	
13	TM	Bis (2-chloroisopropyl) ether	1.186	1.133	4.5	TM	
14	TM	Acetophenone	2.406	2.331	3.1	TM	
15	TM	3&4-Methylphenol	1.915	1.919	0.18	TM	
16	**TM	n-Nitrosodi-n-propylamine	1.212	1.184	2.3	**TM	
17	TM	Hexachloroethane	0.7164	0.7439	3.8	TM	
18	TM	Nitrobenzene	0.4309	0.4428	2.8	TM	
19	TM	Isophorone	0.7379	0.7698	4.3	TM	
20	*TM	2-Nitrophenol	0.2595	0.2685	3.5	*TM	
21	TM	2,4-Dimethylphenol	0.4053	0.4011	1.0	TM	
22	TML	Benzoic acid	0.2281	0.3005	32	TML	9.1
23	TM	Bis (2-chloroethoxy) methane	0.4685	0.4517	3.6	TM	
24	*TM	2,4-Dichlorophenol	0.4033	0.4044	0.27	*TM	
25	TM	1,2,4-Trichlorobenzene	0.4494	0.4623	2.9	TM	
26	TM	3,4-Dimethylphenol	0.5663	0.5509	2.7	TM	
27	TM	Naphthalene	1.312	1.311	0.02	TM	
28	TM	4-Chloroaniline	0.5518	0.5476	0.77	TM	
29	TM	2,6-Dichlorophenol	0.3974	0.3950	0.60	TM	
30	TM	Hexachloropropene	0.3271	0.3385	3.5	TM	
31	*TM	Hexachlorobutadiene	0.2760	0.2880	4.3	*TM	
32	TM	Caprolactum	0.1313	0.1297	1.2	TM	
33	*TM	4-Chloro-3-methylphenol	0.4121	0.4175	1.3	*TM	
34	TM	2-Methylnaphthalene	0.8852	0.9660	9.1	TM	
35	TM	1-Methylnaphthalene	0.9167	0.9017	1.6	TM	
36	**TM	Hexachlorocyclopentadiene	0.5574	0.5527	0.84	**TM	
37	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.7867	2.5	TM	
38	*TM	2,4,6-Trichlorophenol	0.5357	0.5317	0.76	*TM	
39	TM	2,4,5-Trichlorophenol	0.5612	0.5730	2.1	TM	
40	TM	1,1'-Biphenyl	1.924	1.880	2.3	TM	
		Average			3.4		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	2-Chloronaphthalene	1.522	1.530	0.52	TM	
42	TM	2-Nitroaniline	0.3796	0.3919	3.2	TM	
43	TM	Dimethyl phthalate	1.821	1.754	3.7	TM	
44	TM	2,6-DNT	0.4045	0.4267	5.5	TM	
45	TM	Acenaphthylene	2.334	2.281	2.3	TM	
46	TM	3-Nitroaniline	0.5014	0.5212	4.0	TM	
47	*TM	Acenaphthene	1.551	1.552	0.05	*TM	
48	**TML	2,4-Dinitrophenol	0.1987	0.2081	4.7	**TML	0.27
49	**TM	4-Nitrophenol	0.2824	0.2943	4.2	**TM	
50	TM	Dibenzofuran	2.210	2.160	2.3	TM	
51	TM	2,4-DNT	0.5755	0.6014	4.5	TM	
52	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4860	3.7	TM	
53	TM	Diethyl phthalate	1.778	1.698	4.5	TM	
54	TM	4-Chlorophenyl phenyl ether	1.025	0.9806	4.4	TM	
55	TM	Fluorene	1.828	1.777	2.8	TM	
56	TM	4-Nitroaniline	0.4196	0.4194	0.06	TM	
57	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2041	4.9	TM	
58	TM	Diphenyl amine	0.7572	0.7578	0.07	TM	
59	*TM	n-Nitrosodiphenylamine	0.7572	0.7578	0.07	*TM	
60	TM	1,2-Diphenylhydrazine	0.7331	0.7678	4.7	TM	
61	TM	4-Bromophenyl phenyl ether	0.2995	0.2940	1.8	TM	
62	TM	Hexachlorobenzene	0.3219	0.3228	0.27	TM	
63	TM	Atrazine	0.2783	0.2851	2.5	TM	
64	*TM	Pentachlorophenol	0.2190	0.2289	4.5	*TM	
65	TM	Phenanthrene	1.358	1.342	1.2	TM	
66	TM	Anthracene	1.412	1.409	0.20	TM	
67	TM	Carbazol	1.270	1.264	0.43	TM	
68	TM	Di-n-butylphthalate	1.536	1.511	1.7	TM	
69	*TM	Fluoranthene	1.570	1.560	0.67	*TM	
70	TM	Benzidine	0.4483	0.5235	17	TM	
71	TM	Pyrene	1.596	1.586	0.61	TM	
72	TM	Butyl benzylphthalate	0.6574	0.6699	1.9	TM	
73	TM	3,3'-Dichlorobenzidine	0.5283	0.5702	7.9	TM	
74	TM	Benz (a) anthracene	1.607	1.576	1.9	TM	
75	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9398	1.9	TM	
76	TM	Chrysene	1.546	1.515	2.0	TM	
77	*TM	Di-n-octylphthalate	1.510	1.579	4.6	*TM	
78	TM	Benzo (b) fluoranthene	1.552	1.621	4.4	TM	
79	TM	Benzo (k) fluoranthene	1.503	1.517	0.88	TM	
80	*TM	Benzo (a) pyrene	1.419	1.463	3.1	*TM	
		Average			3.0		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.602	1.568	2.1	TM	
82	TM	Dibenz (a,h) anthracene	1.396	1.434	2.7	TM	
83	TM	Benzo (g,h,i) perylene	1.392	1.406	1.00	TM	
84							
85							
86							
87							
88							
89							
90							
91							
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118							
119							
120							
		Average			1.9		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216183	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	873280	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	536403	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	1035458	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.37	240	1061772	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.07	264	1035051	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0	0.00000 ppb		
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0	0.00000 ppb		
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5(S)	5.68	82	44035	4.82064 ppb		-0.05
Spiked Amount 100.000			Recovery =	4.821%		
46) 2-Fluorobiphenyl(S)	7.71	172	695	0.03074 ppb		-0.06
Spiked Amount 100.000			Recovery =	0.031%		
64) 2,4,6-Tribromophenol(S)	9.47	330	157	0.04046 ppb		0.00
Spiked Amount 200.000			Recovery =	0.020%		
82) Terphenyl-D14(S)	0.00	244	0	0.00000 ppb		
Spiked Amount 100.000			Recovery =	0.000%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	10377	5.35201		83
3) n-Nitrosodimethylamine	2.03	42	162139	54.09601 ppb		99
4) Pyridine	2.05	79	408244	48.70119 ppb		100
7) Phenol	4.72	94	599636	49.56231 ppb		94
8) Aniline	4.76	93	500352	52.75609 ppb		97
9) Bis (2-chloroethyl) ether	4.83	63	236003	48.27565 ppb		97
10) 2-Chlorophenol	4.88	128	506162	50.25677 ppb		95
11) 1,3-DCB	5.06	146	556468	51.69667 ppb		98
12) 1,4-DCB	5.14	146	559251	50.90140 ppb		100
13) Benzyl alcohol	5.27	108	278105	49.37920 ppb		98
14) 1,2-DCB	5.30	146	524514	50.79889 ppb		99
15) 2-Methylphenol	5.39	107	362346	48.61004 ppb		99
16) Bis (2-chloroisopropyl) et	5.43	45	306191	47.76973 ppb		97
17) Acetophenone	5.57	105	629817	48.43822 ppb		97
18) 3&4-Methylphenol	5.57	107	1037012	100.18123 ppb		97
19) n-Nitrosodi-n-propylamine	5.57	70	320028	48.86346 ppb		91
20) Hexachloroethane	5.68	117	201028	51.92266 ppb		95
23) Nitrobenzene	5.74	77	483369	51.38537 ppb		89
24) Isophorone	6.02	82	840280	52.16202 ppb		98
25) 2-Nitrophenol	6.10	139	293131	51.74788 ppb	#	81
26) 2,4-Dimethylphenol	6.15	122	437860	49.48015 ppb		98
27) Benzoic acid	6.24	105	327995m	54.56581 ppb		97
28) Bis (2-chloroethoxy) metha	6.26	93	493099	48.21356 ppb		100
29) 2,4-Dichlorophenol	6.37	162	441395	50.13626 ppb		99
30) 1,2,4-Trichlorobenzene	6.47	180	504605	51.43079 ppb		98
31) 3,4-Dimethylphenol	6.49	107	601322	48.63904 ppb		98
32) Naphthalene	6.56	128	1431422	49.98782 ppb		100
33) 4-Chloroaniline	6.62	127	597741	49.61508 ppb		100
34) 2,6-Dichlorophenol	6.63	162	431213	49.70021 ppb		99
35) Hexachloropropene	6.66	213	369517	51.75060 ppb		98
36) Hexachlorobutadiene	6.70	225	314356	52.16765 ppb		99
37) Caprolactum	7.03	55	141607	49.38964 ppb		95

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

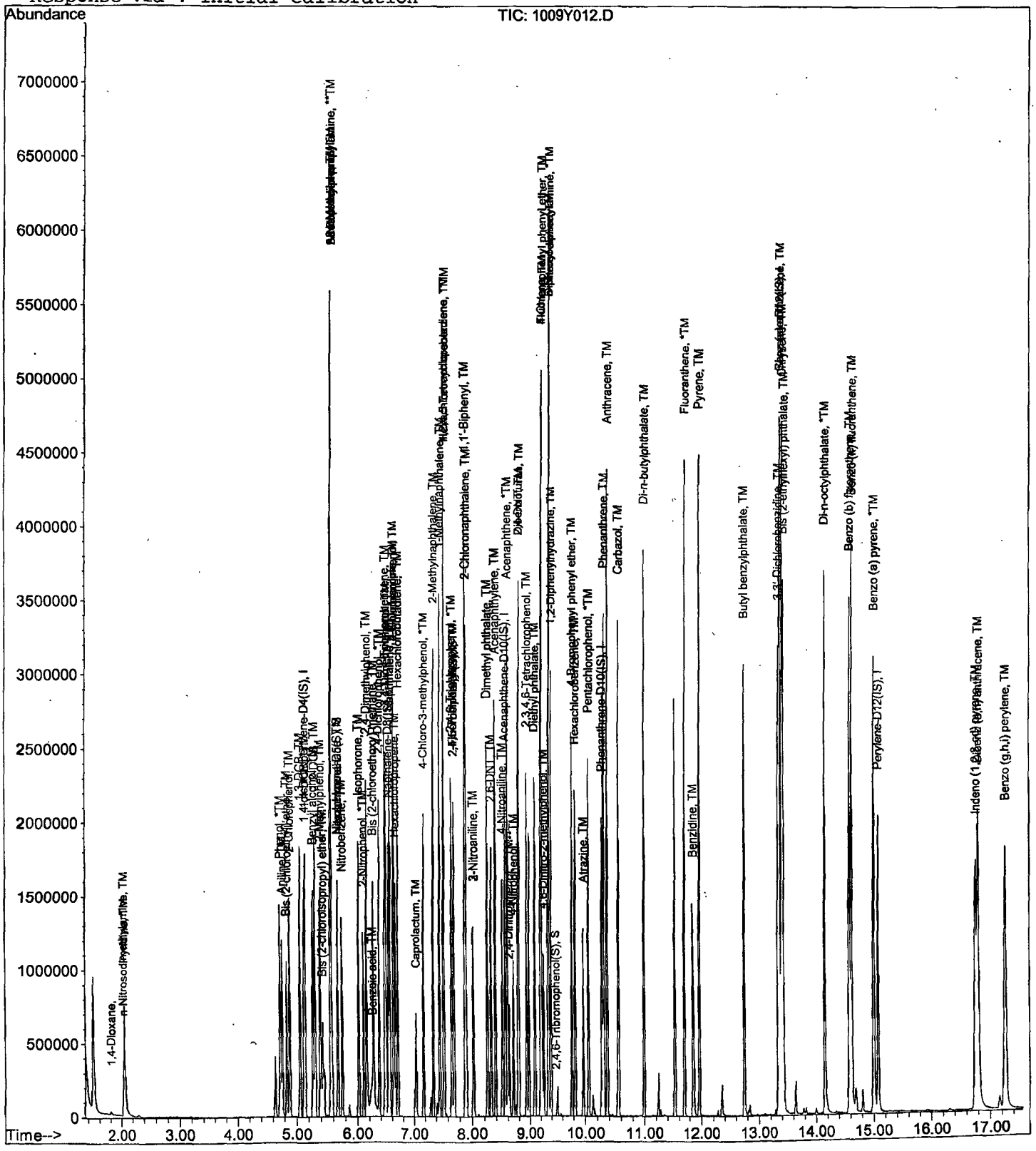
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	455719	50.64752 ppb		99
39)	2-Methylnaphthalene	7.35	142	1054475	54.56257 ppb		100
40)	1-Methylnaphthalene	7.46	142	984333	49.18170 ppb		100
42)	Hexachlorocyclopentadiene	7.54	237	370560	49.57797 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	527503	48.74136 ppb		100
44)	2,4,6-Trichlorophenol	7.66	196	356488	49.62173 ppb		96
45)	2,4,5-Trichlorophenol	7.71	196	384178	51.04434 ppb		99
47)	1,1'-Biphenyl	7.89	154	1260850	48.86920 ppb		99
48)	2-Chloronaphthalene	7.91	162	1025569	50.25867 ppb		99
49)	2-Nitroaniline	8.02	65	262797	51.62014 ppb		76
50)	Dimethyl phthalate	8.25	163	1175916	48.16279 ppb		99
51)	2,6-DNT	8.31	165	286088	52.74354 ppb		98
52)	Acenaphthylene	8.38	152	1529580	48.86112 ppb		99
53)	3-Nitroaniline	8.03	138	349489	51.98079 ppb		95
54)	Acenaphthene	8.58	154	1040624	50.02546 ppb		99
55)	2,4-Dinitrophenol	8.62	184	139500	50.13590 ppb		98
56)	4-Nitrophenol	8.70	65	197361	52.10820 ppb		93
57)	Dibenzofuran	8.79	168	1448178	48.87263 ppb		99
58)	2,4-DNT	8.78	165	403252	52.25266 ppb		98
59)	2,3,4,6-Tetrachlorophenol	8.93	232	325882	51.84686 ppb		99
60)	Diethyl phthalate	9.08	149	1138241	47.73036 ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	657483	47.81467 ppb		97
62)	Fluorene	9.19	166	1191367	48.60649 ppb		99
63)	4-Nitroaniline	8.50	138	281204	49.97047 ppb		95
66)	4,6-Dinitro-2-methylphenol	9.25	198	264110	52.42572 ppb		91
67)	Diphenyl amine	9.34	169	1961662	100.07437 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1961662	100.07437 ppb		99
69)	1,2-Diphenylhydrazine	9.38	77	993810	52.36878 ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	380543	49.07901 ppb	#	81
71)	Hexachlorobenzene	9.83	284	417763	50.13304 ppb		95
72)	Atrazine	9.97	200	184523	25.61674 ppb		98
73)	Pentachlorophenol	10.05	266	296210	52.24180 ppb		99
74)	Phenanthrene	10.31	178	1736593	49.39457 ppb		99
75)	Anthracene	10.37	178	1823356	49.90120 ppb		100
76)	Carbazol	10.55	167	1636229	49.78363 ppb		100
77)	Di-n-butylphthalate	10.99	149	1955769	49.17204 ppb		100
78)	Fluoranthene	11.69	202	2019048	49.66528 ppb		99
80)	Benzidine	11.85	184	694739	58.38120 ppb	#	96
81)	Pyrene	11.95	202	2104725	49.69360 ppb		100
83)	Butyl benzylphthalate	12.73	149	889142	50.95072 ppb	#	77
84)	3,3'-Dichlorobenzidine	13.33	252	756835	53.96905 ppb		100
85)	Benz (a) anthracene	13.36	228	2092220	49.05758 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.42	149	1247309	50.96766 ppb		99
87)	Chrysene	13.39	228	2011174	49.00363 ppb		99
88)	Di-n-octylphthalate	14.14	149	2096116	52.30853 ppb		99
90)	Benzo (b) fluoranthene	14.58	252	2096677	52.20793 ppb		99
91)	Benzo (k) fluoranthene	14.62	252	1962159	50.43806 ppb		100
92)	Benzo (a) pyrene	15.00	252	1893209	51.55680 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.75	276	2028571	48.92899 ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1855439	51.37332 ppb		99
95)	Benzo (g,h,i) perylene	17.25	276	1818788	50.49837 ppb		99

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

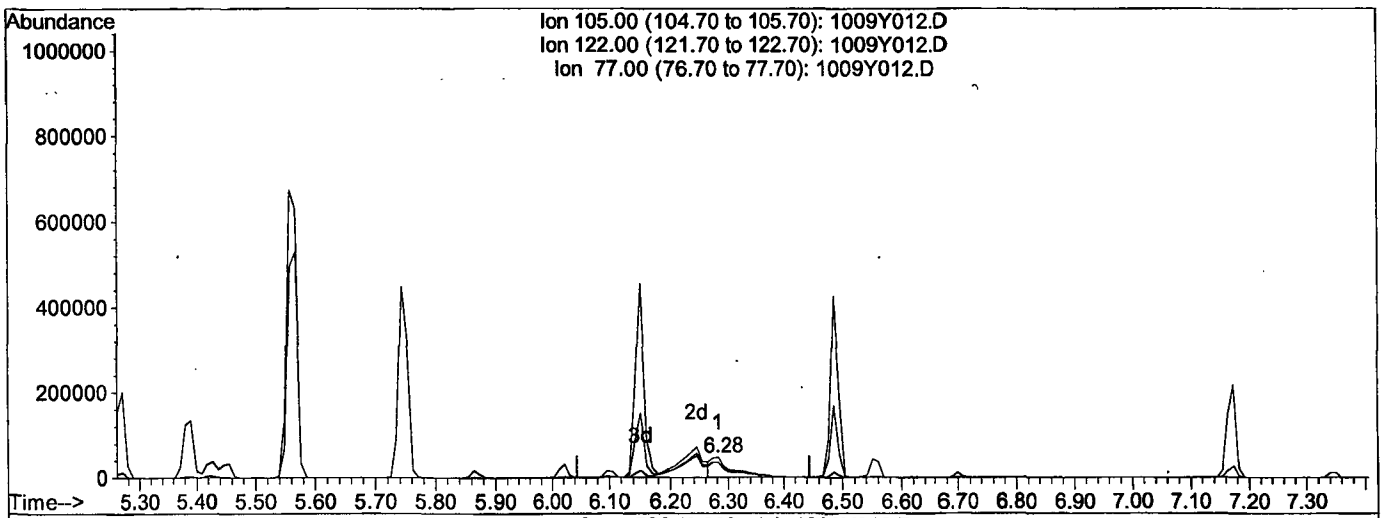
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration

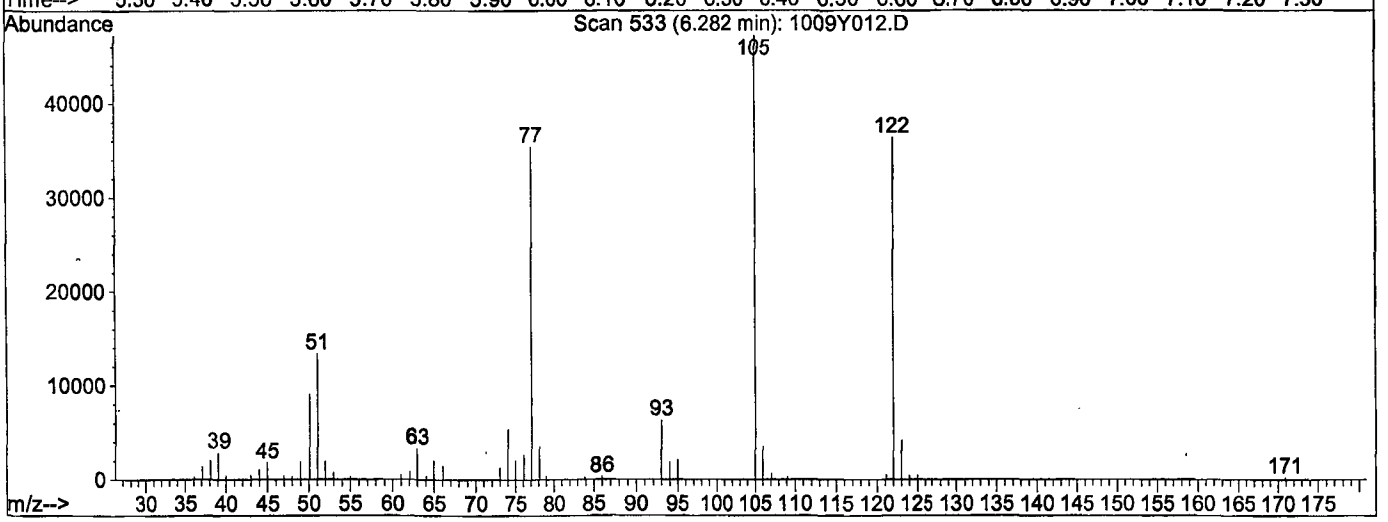


Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 15:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y012.D

(27) Benzoic acid (TM)

6.28min 25.1987ppb

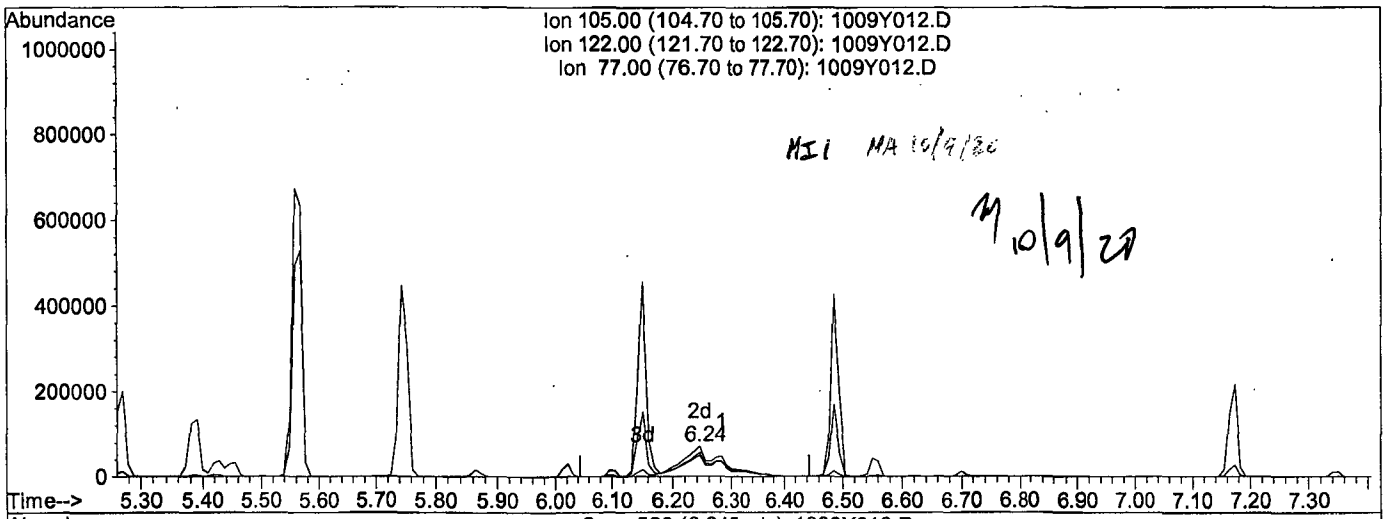
response 119810

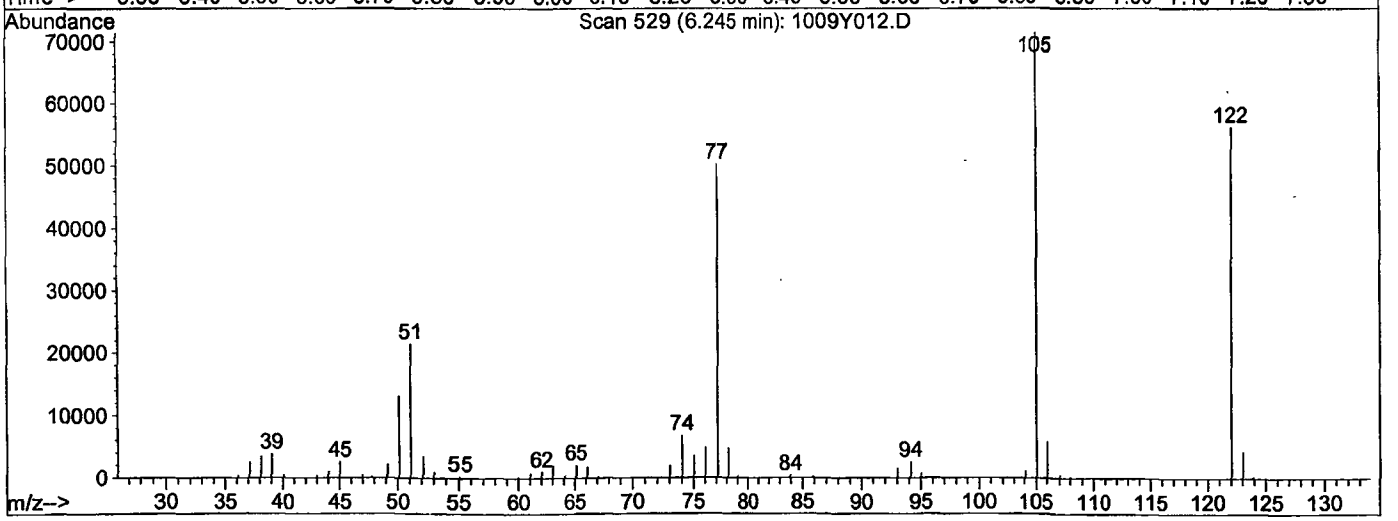
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	76.27
77.00	70.50	74.55
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 15:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y012.D

(27) Benzoic acid (TM)

6.24min 54.5658ppb m

response 327995

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	78.87
77.00	70.50	70.48
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y218.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3783	5.4		
3	TM	n-Nitrosodimethylamine	0.5546	0.5521	0.44	TM	
4	TM	Pyridine	1.551	1.687	8.8	TM	
5	S	2-Fluorophenol (S)	1.550	1.576	1.7	S	
6	S	Phenol-D6 (S)	1.954	2.000	2.3	S	
7	*TM	Phenol	2.239	2.309	3.1	*TM	
8	TM	Aniline	1.755	1.580	10.0	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9147	1.1	TM	
10	TM	2-Chlorophenol	1.864	1.882	0.99	TM	
11	TM	1,3-DCB	1.992	2.004	0.61	TM	
12	*TM	1,4-DCB	2.033	2.021	0.61	*TM	
13	TM	Benzyl alcohol	1.042	1.029	1.3	TM	
14	TM	1,2-DCB	1.910	1.911	0.04	TM	
15	TM	2-Methylphenol	1.379	1.413	2.5	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.251	5.5	TM	
17	TM	Acetophenone	2.406	2.354	2.2	TM	
18	TM	3&4-Methylphenol	1.915	1.918	0.13	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.192	1.6	**TM	
20	TM	Hexachloroethane	0.7164	0.7115	0.67	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4301	2.8	S	
23	TM	Nitrobenzene	0.4309	0.4259	1.2	TM	
24	TM	Isophorone	0.7379	0.7350	0.39	TM	
25	*TM	2-Nitrophenol	0.2595	0.2763	6.5	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4067	0.33	TM	
27	TML	Benzoic acid	0.2281	0.2592	14	TML	3.6
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4837	3.3	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4102	1.7	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4516	0.50	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5631	0.55	TM	
32	TM	Naphthalene	1.312	1.345	2.6	TM	
33	TM	4-Chloroaniline	0.5518	0.5032	8.8	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.3970	0.10	TM	
35	TM	Hexachloropropene	0.3271	0.3205	2.0	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2675	3.1	*TM	
37	TM	Caprolactum	0.1313	0.1374	4.6	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4017	2.5	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.8954	1.2	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9335	1.8	TM	
		Average			2.8		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/23/20
Matrix: 0 Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y218.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5600	0.47	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8097	0.33	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5400	0.79	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5748	2.4	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.721	2.1	S	
47	TM	1,1'-Biphenyl	1.924	1.964	2.1	TM	
48	TM	2-Chloronaphthalene	1.522	1.554	2.1	TM	
49	TM	2-Nitroaniline	0.3796	0.3795	0.04	TM	
50	TM	Dimethyl phthalate	1.821	1.827	0.33	TM	
51	TM	2,6-DNT	0.4045	0.4365	7.9	TM	
52	TM	Acenaphthylene	2.334	2.377	1.8	TM	
53	TM	3-Nitroaniline	0.5014	0.5356	6.8	TM	
54	*TM	Acenaphthene	1.551	1.518	2.1	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.1634	18	**TML	14
56	**TM	4-Nitrophenol	0.2824	0.2776	1.7	**TM	
57	TM	Dibenzofuran	2.210	2.242	1.4	TM	
58	TM	2,4-DNT	0.5755	0.5932	3.1	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4661	0.56	TM	
60	TM	Diethyl phthalate	1.778	1.734	2.5	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.011	1.4	TM	
62	TM	Fluorene	1.828	1.857	1.6	TM	
63	TM	4-Nitroaniline	0.4196	0.4404	4.9	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2927	1.1	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.1948	0.11	TM	
67	TM	Diphenyl amine	0.7572	0.7610	0.50	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7610	0.50	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7271	0.81	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3111	3.9	TM	
71	TM	Hexachlorobenzene	0.3219	0.3241	0.68	TM	
72	TM	Atrazine	0.2783	0.2797	0.50	TM	
73	*TM	Pentachlorophenol	0.2190	0.2118	3.3	*TM	
74	TM	Phenanthrene	1.358	1.364	0.46	TM	
75	TM	Anthracene	1.412	1.455	3.1	TM	
76	TM	Carbazol	1.270	1.281	0.89	TM	
77	TM	Di-n-butylphthalate	1.536	1.546	0.60	TM	
78	*TM	Fluoranthene	1.570	1.591	1.3	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.4719	5.3	TM	
		Average			2.4		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y218.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Pyrene	1.596	1.664	4.3	TM	
82	S	Terphenyl-D14(S)	1.153	1.216	5.5	S	
83	TM	Butyl benzylphthalate	0.6574	0.6933	5.5	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.5975	13	TM	
85	TM	Benz (a) anthracene	1.607	1.665	3.7	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9738	5.6	TM	
87	TM	Chrysene	1.546	1.619	4.7	TM	
88	*TM	Di-n-octylphthalate	1.510	1.679	11	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.568	1.0	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.520	1.1	TM	
92	*TM	Benzo (a) pyrene	1.419	1.483	4.5	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.689	5.4	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.502	7.6	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.464	5.1	TM	
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			5.6		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 13:45 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	157272	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	623624	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	374698	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	731491	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	731177	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	742323	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	619719	101.66708 ppb	0.01
Spiked Amount 200.000			Recovery =	50.834%	
6) Phenol-D6 (S)	4.72	99	786266	102.31784 ppb	0.01
Spiked Amount 200.000			Recovery =	51.159%	
22) Nitrobenzene-D5(S)	5.73	82	335264	51.39543 ppb	0.00
Spiked Amount 100.000			Recovery =	51.395%	
46) 2-Fluorobiphenyl(S)	7.77	172	806148	51.04606 ppb	0.00
Spiked Amount 100.000			Recovery =	51.046%	
64) 2,4,6-Tribromophenol(S)	9.47	330	274144	101.13754 ppb	0.00
Spiked Amount 200.000			Recovery =	50.569%	
82) Terphenyl-D14(S)	12.15	244	1111698	52.74611 ppb	0.00
Spiked Amount 100.000			Recovery =	52.746%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.80	58	7437	5.27246	91
3) n-Nitrosodimethylamine	2.03	42	108539	49.77757 ppb	91
4) Pyridine	2.05	79	331636	54.38155 ppb	97
7) Phenol	4.74	94	453852	51.56419 ppb	98
8) Aniline	4.76	93	310592	45.01501 ppb	97
9) Bis (2-chloroethyl) ether	4.83	63	179821	50.56164 ppb	90
10) 2-Chlorophenol	4.89	128	369979	50.49545 ppb	99
11) 1,3-DCB	5.05	146	393943	50.30670 ppb	98
12) 1,4-DCB	5.13	146	397211	49.69519 ppb	97
13) Benzyl alcohol	5.27	108	202294	49.37287 ppb	93
14) 1,2-DCB	5.30	146	375743	50.02167 ppb	96
15) 2-Methylphenol	5.39	107	277868	51.24024 ppb	98
16) Bis (2-chloroisopropyl) et	5.42	45	245990	52.75310 ppb	95
17) Acetophenone	5.56	105	462691	48.91420 ppb	83
18) 3&4-Methylphenol	5.57	107	754029	100.12921 ppb	97
19) n-Nitrosodi-n-propylamine	5.57	70	234416	49.19870 ppb	98
20) Hexachloroethane	5.67	117	139882	49.66293 ppb	87
23) Nitrobenzene	5.74	77	331979	49.41991 ppb	94
24) Isophorone	6.01	82	572955	49.80599 ppb	96
25) 2-Nitrophenol	6.10	139	215381	53.24378 ppb	91
26) 2,4-Dimethylphenol	6.15	122	317010	50.16483 ppb	98
27) Benzoic acid	6.25	105	202021m	48.20407 ppb	96
28) Bis (2-chloroethoxy) metha	6.26	93	377056	51.62637 ppb	99
29) 2,4-Dichlorophenol	6.38	162	319751	50.85892 ppb	95
30) 1,2,4-Trichlorobenzene	6.47	180	352066	50.24889 ppb	96
31) 3,4-Dimethylphenol	6.50	107	438986	49.72323 ppb	92
32) Naphthalene	6.55	128	1048585	51.27797 ppb	99
33) 4-Chloroaniline	6.62	127	392269	45.59480 ppb	98
34) 2,6-Dichlorophenol	6.63	162	309470	49.94771 ppb	98
35) Hexachloropropene	6.65	213	249801	48.98982 ppb	99
36) Hexachlorobutadiene	6.70	225	208514	48.45576 ppb	97
37) Caprolactum	7.04	55	107102	52.30936 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 13:45 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	313112	48.72944 ppb		98
39)	2-Methylnaphthalene	7.34	142	698009	50.57667 ppb		99
40)	1-Methylnaphthalene	7.45	142	727654	50.91165 ppb		98
42)	Hexachlorocyclopentadiene	7.53	237	262272	50.23333 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	379257	50.16677 ppb		98
44)	2,4,6-Trichlorophenol	7.68	196	252905	50.39578 ppb		96
45)	2,4,5-Trichlorophenol	7.72	196	269240	51.21115 ppb		99
47)	1,1'-Biphenyl	7.89	154	919918	51.04236 ppb		97
48)	2-Chloronaphthalene	7.91	162	727697	51.05127 ppb		97
49)	2-Nitroaniline	8.03	65	177738	49.97915 ppb		98
50)	Dimethyl phthalate	8.25	163	855586	50.16592 ppb		98
51)	2,6-DNT	8.32	165	204449	53.95907 ppb		83
52)	Acenaphthylene	8.38	152	1113371	50.91444 ppb		99
53)	3-Nitroaniline	8.03	138	250874	53.41643 ppb		97
54)	Acenaphthene	8.58	154	711021	48.93161 ppb		99
55)	2,4-Dinitrophenol	8.62	184	76524	42.90050 ppb		97
56)	4-Nitrophenol	8.71	65	130035m	49.14902 ppb		84
57)	Dibenzofuran	8.79	168	1049878	50.72154 ppb		92
58)	2,4-DNT	8.78	165	277861	51.54295 ppb		92
59)	2,3,4,6-Tetrachlorophenol	8.94	232	218311	49.72188 ppb	#	89
60)	Diethyl phthalate	9.07	149	811964	48.74242 ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	473403	49.28530 ppb		85
62)	Fluorene	9.19	166	869717	50.79682 ppb		99
63)	4-Nitroaniline	8.50	138	206263	52.47145 ppb		99
66)	4,6-Dinitro-2-methylphenol	9.25	198	178144	50.05579 ppb	#	82
67)	Diphenyl amine	9.34	169	1391749	100.50395 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1391749	100.50395 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	664855	49.59290 ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	284466	51.93330 ppb		97
71)	Hexachlorobenzene	9.82	284	296351	50.34125 ppb	#	92
72)	Atrazine	9.97	200	127852	25.12490 ppb		95
73)	Pentachlorophenol	10.06	266	193687	48.35511 ppb		97
74)	Phenanthrene	10.30	178	1247591	50.23158 ppb		100
75)	Anthracene	10.37	178	1330338	51.53770 ppb		99
76)	Carbazol	10.55	167	1171261	50.44518 ppb		97
77)	Di-n-butylphthalate	10.98	149	1413279	50.29815 ppb		99
78)	Fluoranthene	11.69	202	1454385	50.64180 ppb	#	96
80)	Benzidine	11.86	184	431311	52.63209 ppb		98
81)	Pyrene	11.95	202	1520434	52.12925 ppb		99
83)	Butyl benzylphthalate	12.73	149	633633	52.72611 ppb	#	80
84)	3,3'-Dichlorobenzidine	13.33	252	546075	56.54635 ppb		99
85)	Benz (a) anthracene	13.35	228	1522108	51.82663 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.40	149	889997	52.81022 ppb		100
87)	Chrysene	13.39	228	1479935	52.36366 ppb		100
88)	Di-n-octylphthalate	14.13	149	1534431	55.60494 ppb		97
90)	Benzo (b) fluoranthene	14.57	252	1454724	50.50733 ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1409963	50.53598 ppb		98
92)	Benzo (a) pyrene	14.99	252	1376404	52.26394 ppb		98
93)	Indeno (1,2,3-cd) pyrene	16.75	276	1566877	52.69626 ppb		97
94)	Dibenz (a,h) anthracene	16.78	278	1393778	53.80881 ppb		100
95)	Benzo (g,h,i) perylene	17.25	276	1358027	52.57418 ppb		98

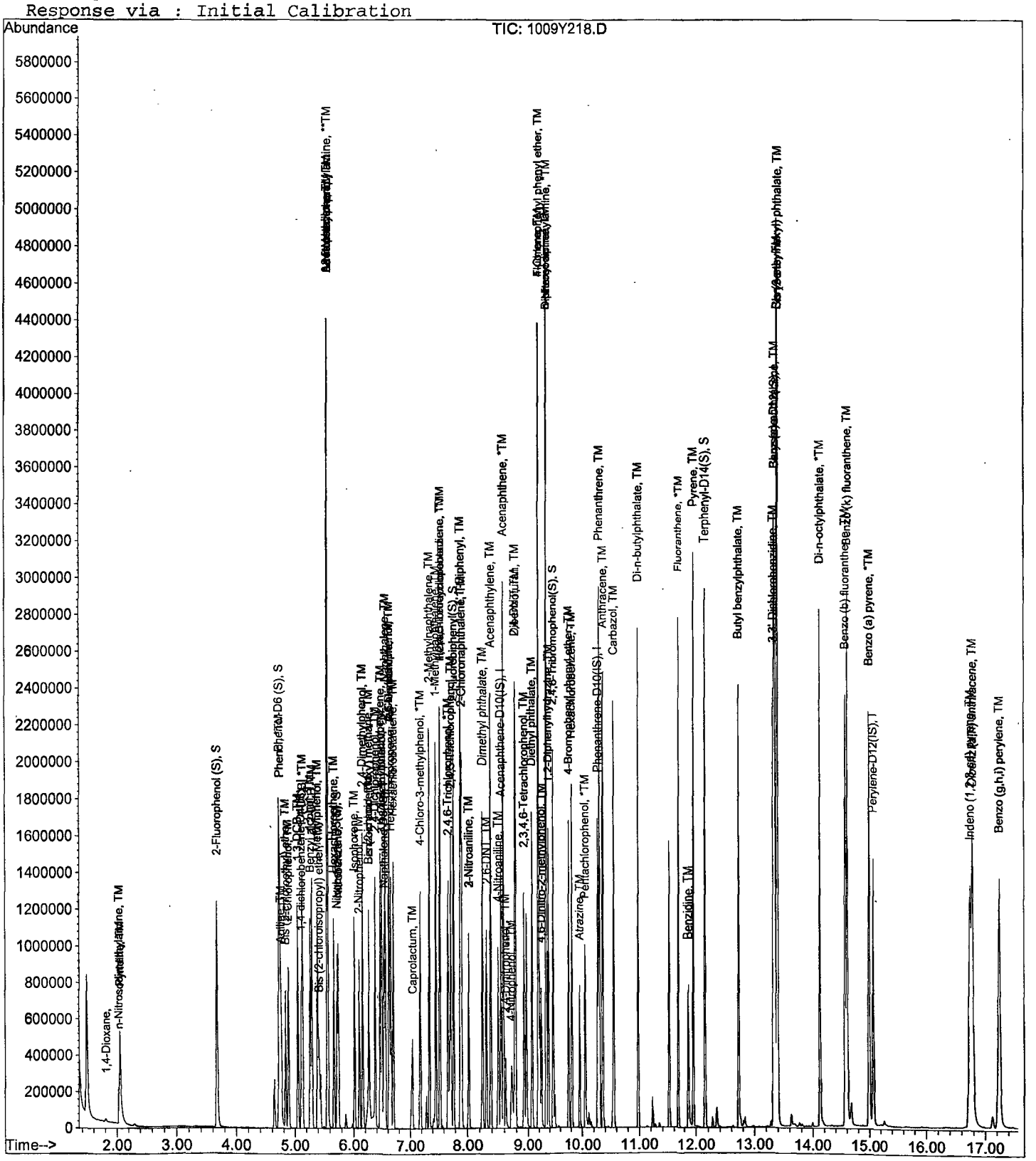
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 13:45 2020 Quant Results File: Y1009.RES

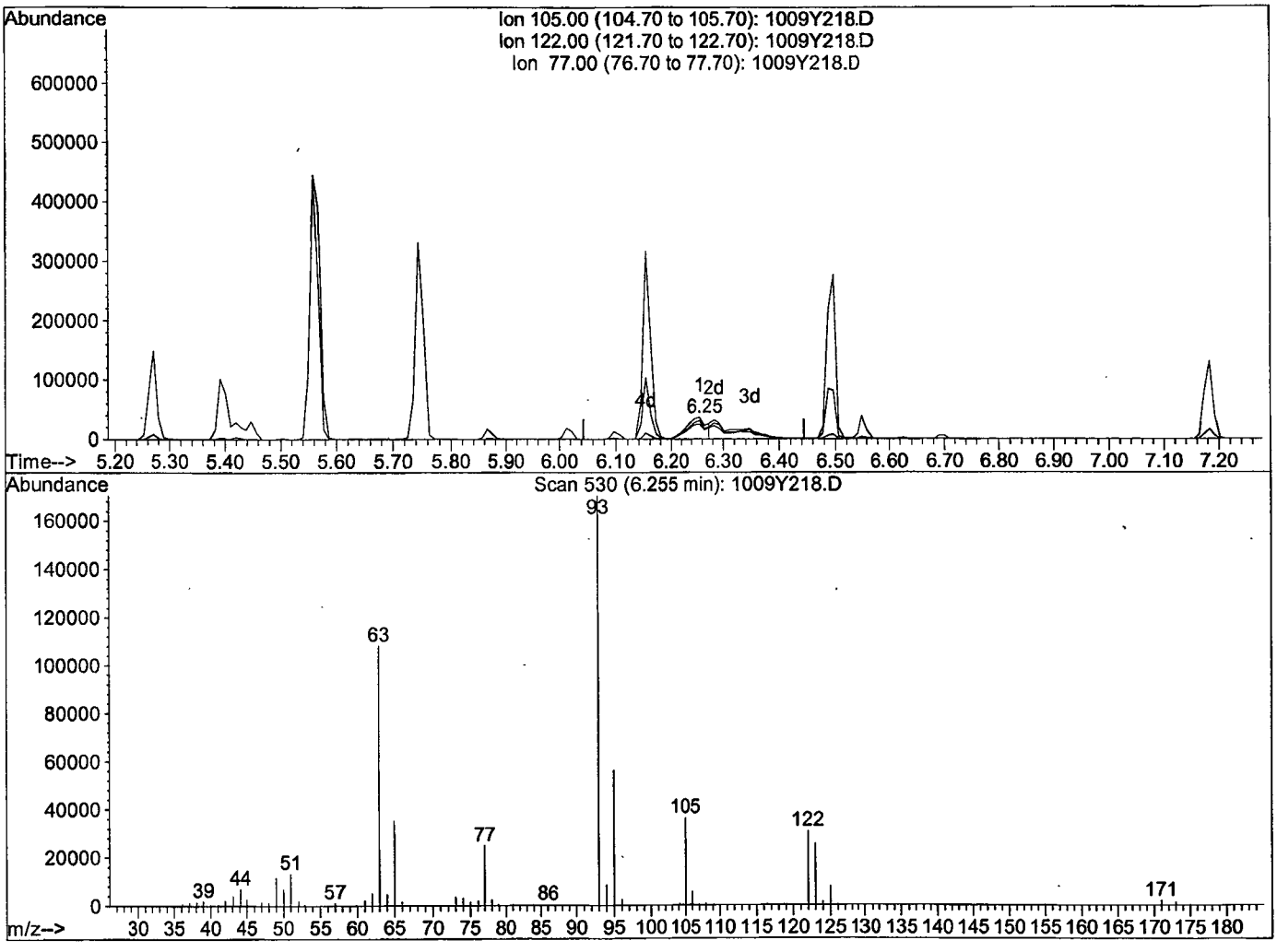
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 12:57 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y218.D

(27) Benzoic acid (TM)

6.25min 27.9096ppb

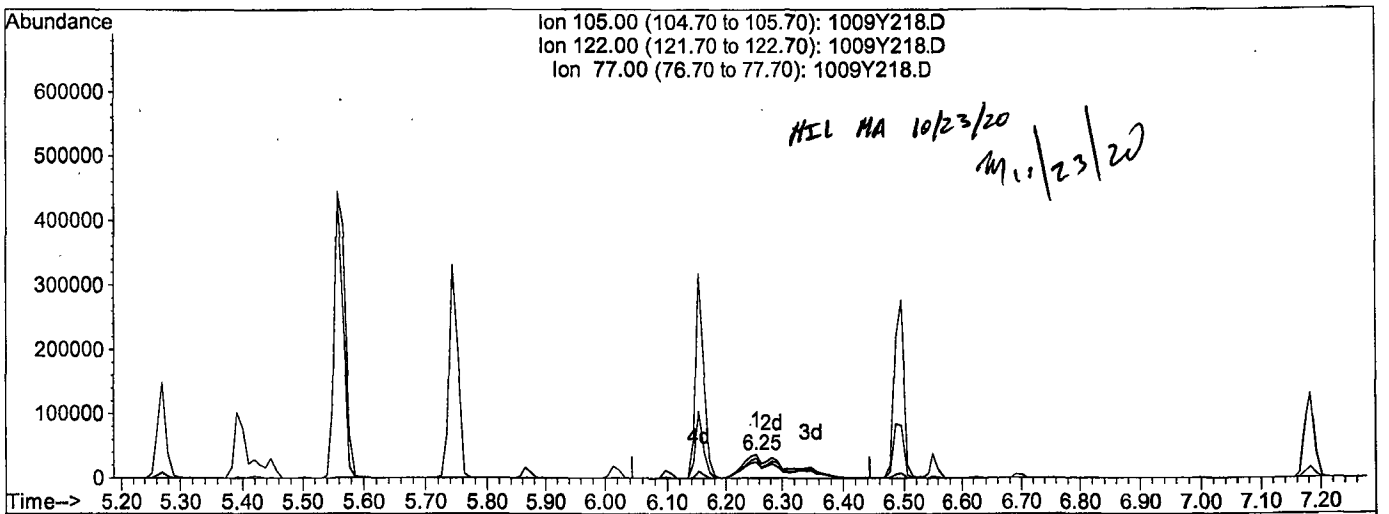
response 99282

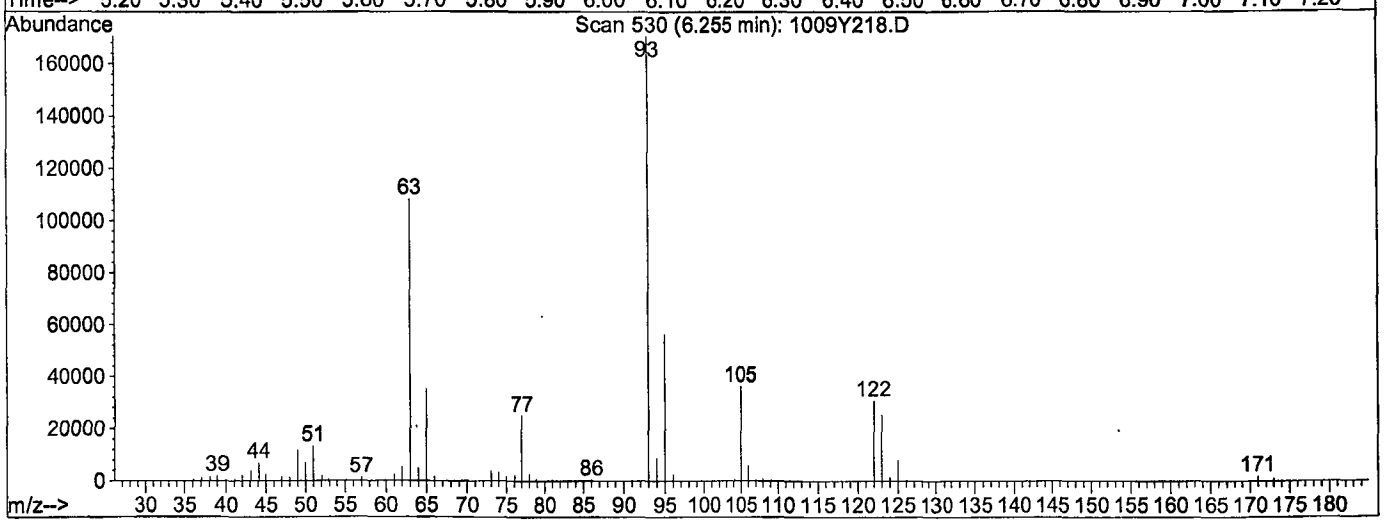
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	82.91
77.00	70.50	67.85
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 13:45 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y218.D

(27) Benzoic acid (TM)

6.25min 48.2041ppb m

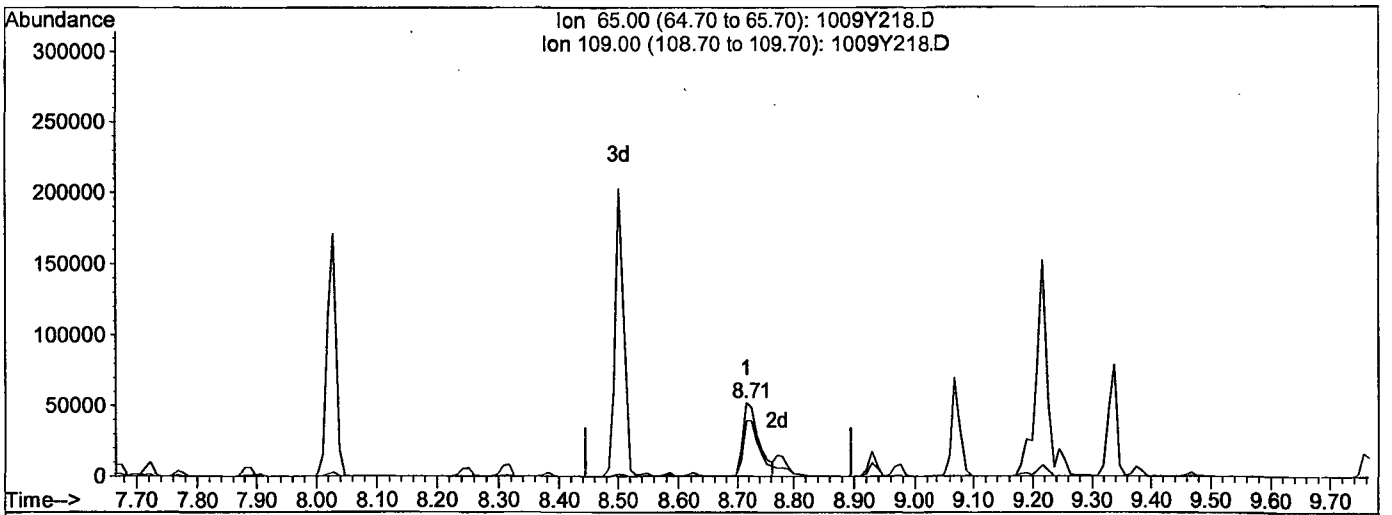
response 202021

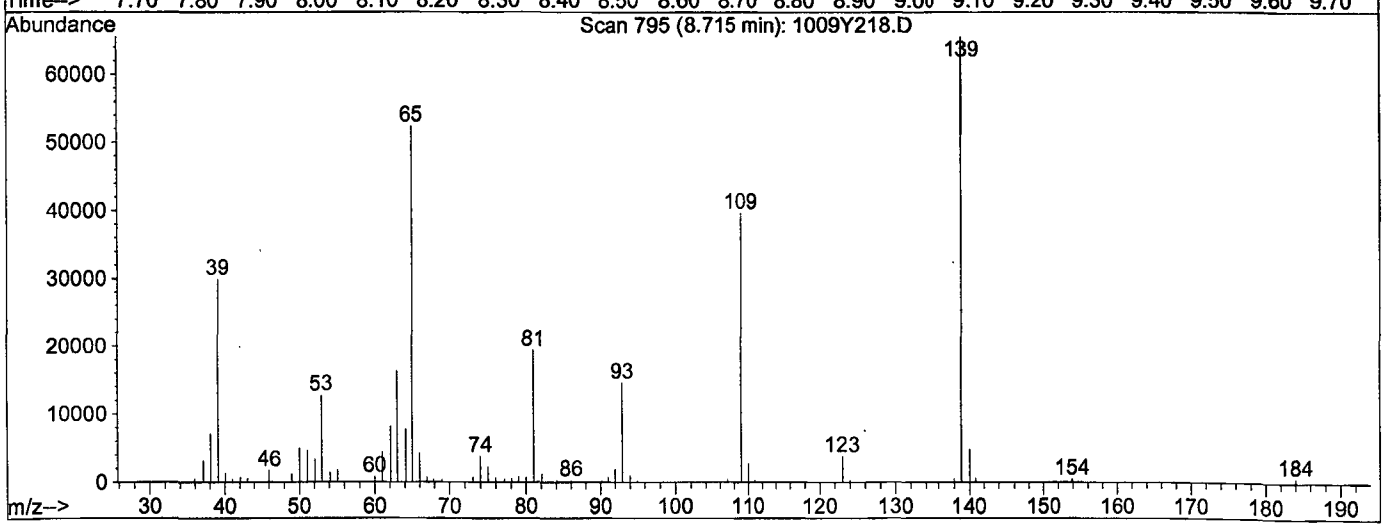
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	84.81
77.00	70.50	68.70
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 13:45 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y218.D

(56) 4-Nitrophenol (**TM)

8.71min 40.1277ppb

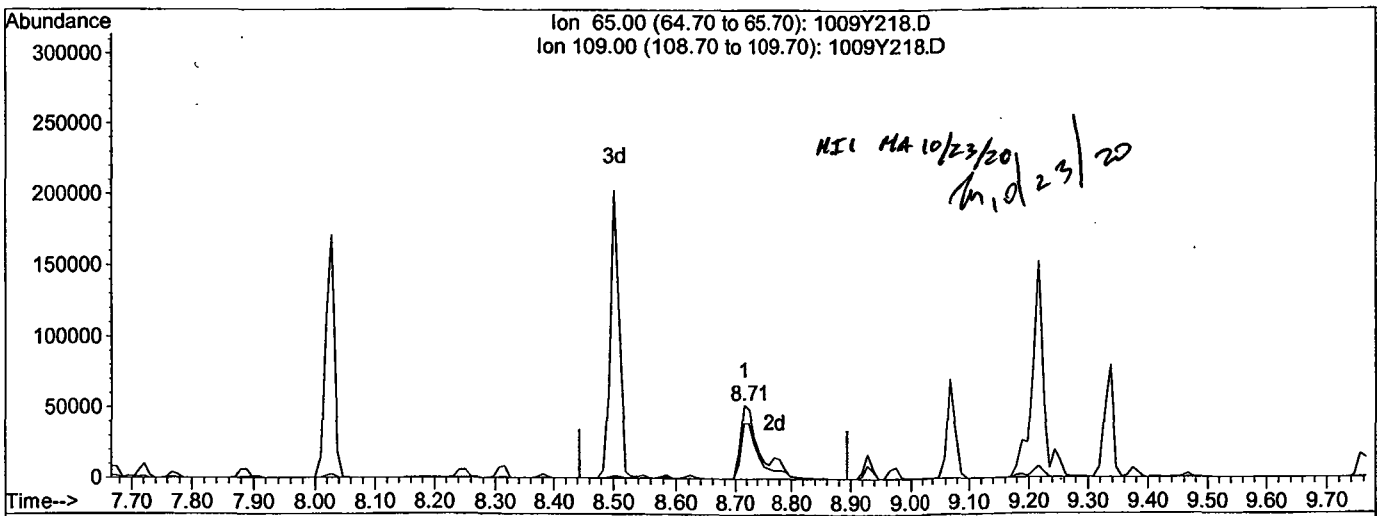
response 106167

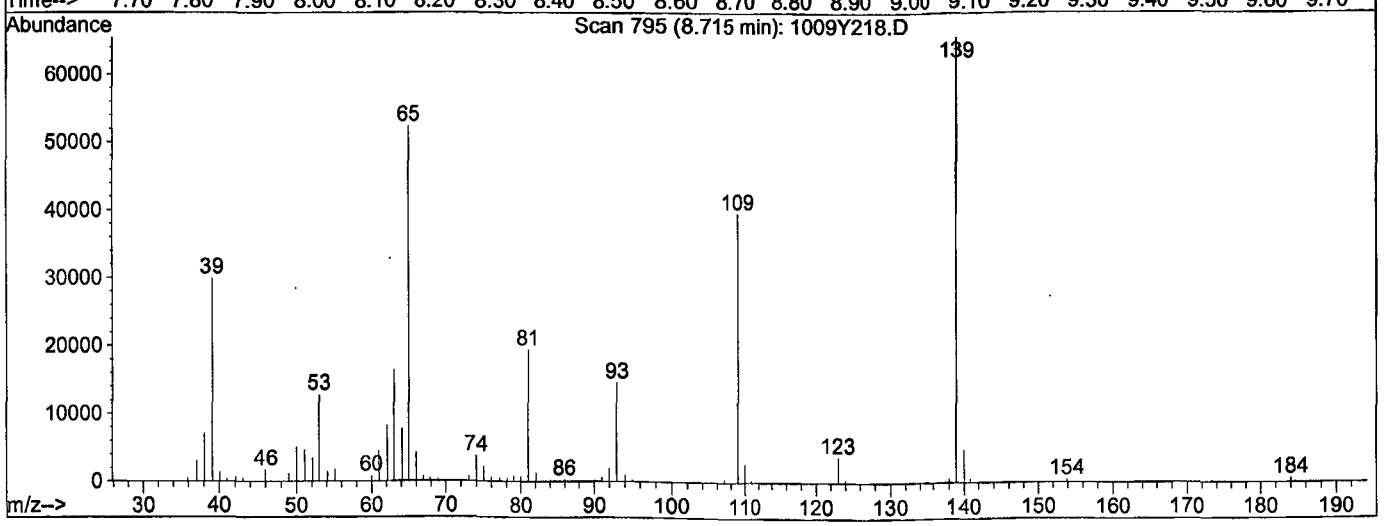
Ion	Exp%	Act%
65.00	100	100
109.00	90.40	75.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 13:45 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y218.D

(56) 4-Nitrophenol (**TM)

8.71min 49.1490ppb m

response 130035

Ion	Exp%	Act%
65.00	100	100
109.00	90.40	75.71
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/23/20
Matrix: Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y236.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3491	2.7		
3	TM	n-Nitrosodimethylamine	0.5546	0.6020	8.6	TM	
4	TM	Pyridine	1.551	1.568	1.1	TM	
5	S	2-Fluorophenol (S)	1.550	1.590	2.6	S	
6	S	Phenol-D6 (S)	1.954	2.140	9.5	S	
7	*TM	Phenol	2.239	2.515	12	*TM	
8	TM	Aniline	1.755	1.559	11	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9712	7.4	TM	
10	TM	2-Chlorophenol	1.864	2.068	11	TM	
11	TM	1,3-DCB	1.992	2.094	5.1	TM	
12	*TM	1,4-DCB	2.033	2.153	5.9	*TM	
13	TM	Benzyl alcohol	1.042	1.156	11	TM	
14	TM	1,2-DCB	1.910	2.017	5.6	TM	
15	TM	2-Methylphenol	1.379	1.540	12	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.328	12	TM	
17	TM	Acetophenone	2.406	2.588	7.6	TM	
18	TM	3&4-Methylphenol	1.915	2.134	11	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.332	9.9	**TM	
20	TM	Hexachloroethane	0.7164	0.7526	5.1	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4180	0.09	S	
23	TM	Nitrobenzene	0.4309	0.4443	3.1	TM	
24	TM	Isophorone	0.7379	0.7741	4.9	TM	
25	*TM	2-Nitrophenol	0.2595	0.2801	7.9	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4319	6.6	TM	
27	TML	Benzoic acid	0.2281	0.2954	29	TML	7.6
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4992	6.6	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4285	6.3	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4734	5.3	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5922	4.6	TM	
32	TM	Naphthalene	1.312	1.387	5.7	TM	
33	TM	4-Chloroaniline	0.5518	0.5635	2.1	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.4221	6.2	TM	
35	TM	Hexachloropropene	0.3271	0.3287	0.51	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2797	1.3	*TM	
37	TM	Caprolactum	0.1313	0.1436	9.4	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4299	4.3	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.9386	6.0	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9870	7.7	TM	
		Average			7.1		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/23/20
Matrix: 0 Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y236.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5294	5.0	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8353	3.5	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5559	3.8	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5800	3.3	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.668	1.1	S	
47	TM	1,1'-Biphenyl	1.924	2.013	4.6	TM	
48	TM	2-Chloronaphthalene	1.522	1.593	4.7	TM	
49	TM	2-Nitroaniline	0.3796	0.3895	2.6	TM	
50	TM	Dimethyl phthalate	1.821	1.868	2.6	TM	
51	TM	2,6-DNT	0.4045	0.4431	9.6	TM	
52	TM	Acenaphthylene	2.334	2.433	4.2	TM	
53	TM	3-Nitroaniline	0.5014	0.5468	9.1	TM	
54	*TM	Acenaphthene	1.551	1.576	1.6	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.2484	25	**TML	13
56	**TM	4-Nitrophenol	0.2824	0.2654	6.0	**TM	
57	TM	Dibenzofuran	2.210	2.282	3.3	TM	
58	TM	2,4-DNT	0.5755	0.6247	8.6	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4917	4.9	TM	
60	TM	Diethyl phthalate	1.778	1.795	0.95	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.052	2.6	TM	
62	TM	Fluorene	1.828	1.925	5.3	TM	
63	TM	4-Nitroaniline	0.4196	0.4569	8.9	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2898	0.16	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2141	10	TM	
67	TM	Diphenyl amine	0.7572	0.7832	3.4	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7832	3.4	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7289	0.57	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3231	7.9	TM	
71	TM	Hexachlorobenzene	0.3219	0.3399	5.6	TM	
72	TM	Atrazine	0.2783	0.1954	30	TM	
73	*TM	Pentachlorophenol	0.2190	0.2184	0.27	*TM	
74	TM	Phenanthrene	1.358	1.400	3.1	TM	
75	TM	Anthracene	1.412	1.503	6.5	TM	
76	TM	Carbazol	1.270	1.322	4.1	TM	
77	TM	Di-n-butylphthalate	1.536	1.614	5.1	TM	
78	*TM	Fluoranthene	1.570	1.648	4.9	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.2655	41	TM	
		Average			6.7		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y236.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Pyrene	1.596	1.680	5.3	TM	
82	S	Terphenyl-D14(S)	1.153	1.193	3.4	S	
83	TM	Butyl benzylphthalate	0.6574	0.6888	4.8	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6489	23	TM	
85	TM	Benz (a) anthracene	1.607	1.732	7.8	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	1.005	9.0	TM	
87	TM	Chrysene	1.546	1.596	3.2	TM	
88	*TM	Di-n-octylphthalate	1.510	1.719	14	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.679	8.2	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.557	3.6	TM	
92	*TM	Benzo (a) pyrene	1.419	1.551	9.3	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.757	9.7	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.564	12	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.497	7.6	TM	
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			8.6		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y236.D Vial: 36
Acq On : 23 Oct 20 20:35 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 9:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	173637	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	737280	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	458437	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	893524	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	913770	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	897270	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	690370	102.58328 ppb	0.01
Spiked Amount 200.000			Recovery =	51.292%	
6) Phenol-D6 (S)	4.72	99	929023	109.50084 ppb	0.01
Spiked Amount 200.000			Recovery =	54.751%	
22) Nitrobenzene-D5(S)	5.73	82	385243	49.95313 ppb	0.00
Spiked Amount 100.000			Recovery =	49.953%	
46) 2-Fluorobiphenyl(S)	7.77	172	955837	49.46899 ppb	0.00
Spiked Amount 100.000			Recovery =	49.469%	
64) 2,4,6-Tribromophenol(S)	9.47	330	332168	100.15973 ppb	0.00
Spiked Amount 200.000			Recovery =	50.080%	
82) Terphenyl-D14(S)	12.15	244	1362374	51.72323 ppb	0.00
Spiked Amount 100.000			Recovery =	51.723%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	7578	4.86608	78
3) n-Nitrosodimethylamine	2.03	42	130666	54.27747 ppb	98
4) Pyridine	2.05	79	340320	50.54597 ppb	98
7) Phenol	4.74	94	545962	56.18308 ppb	95
8) Aniline	4.76	93	338432	44.42706 ppb	97
9) Bis (2-chloroethyl) ether	4.83	63	210796	53.68491 ppb	92
10) 2-Chlorophenol	4.89	128	448854	55.48677 ppb	98
11) 1,3-DCB	5.05	146	454431	52.56172 ppb	98
12) 1,4-DCB	5.13	146	467333	52.95765 ppb	98
13) Benzyl alcohol	5.27	108	250919	55.46871 ppb	95
14) 1,2-DCB	5.30	146	437871	52.79862 ppb	96
15) 2-Methylphenol	5.39	107	334280	55.83316 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	288271	55.99389 ppb	96
17) Acetophenone	5.56	105	561814	53.79546 ppb	84
18) 3&4-Methylphenol	5.57	107	926254	111.40687 ppb	97
19) n-Nitrosodi-n-propylamine	5.57	70	289109	54.95879 ppb	96
20) Hexachloroethane	5.67	117	163342	52.52638 ppb	88
23) Nitrobenzene	5.74	77	409468	51.55867 ppb	93
24) Isophorone	6.02	82	713426	52.45663 ppb	94
25) 2-Nitrophenol	6.10	139	258123	53.97325 ppb #	88
26) 2,4-Dimethylphenol	6.15	122	398036	53.27692 ppb	99
27) Benzoic acid	6.29	105	272209	53.77955 ppb	98
28) Bis (2-chloroethoxy) metha	6.26	93	460077	53.28275 ppb	98
29) 2,4-Dichlorophenol	6.38	162	394946	53.13532 ppb	94
30) 1,2,4-Trichlorobenzene	6.47	180	436280	52.66936 ppb	97
31) 3,4-Dimethylphenol	6.50	107	545773	52.28909 ppb	94
32) Naphthalene	6.55	128	1277936	52.85994 ppb	99
33) 4-Chloroaniline	6.62	127	519343	51.05944 ppb	99
34) 2,6-Dichlorophenol	6.63	162	389034	53.10984 ppb	99
35) Hexachloropropene	6.65	213	302969	50.25742 ppb	97
36) Hexachlorobutadiene	6.70	225	257775	50.66889 ppb	98
37) Caprolactum	7.04	55	132385	54.69039 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y236.D Vial: 36
Acq On : 23 Oct 20 20:35 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 9:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	396156	52.14928 ppb		99
39)	2-Methylnaphthalene	7.34	142	865021	53.01591 ppb		99
40)	1-Methylnaphthalene	7.45	142	909661	53.83468 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	303360	47.48977 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	478648	51.74882 ppb		98
44)	2,4,6-Trichlorophenol	7.67	196	318550	51.88193 ppb		97
45)	2,4,5-Trichlorophenol	7.72	196	332365	51.67041 ppb	#	92
47)	1,1'-Biphenyl	7.89	154	1153421	52.30837 ppb		98
48)	2-Chloronaphthalene	7.91	162	913026	52.35291 ppb		96
49)	2-Nitroaniline	8.03	65	223183	51.29457 ppb		96
50)	Dimethyl phthalate	8.25	163	1070478	51.30086 ppb		98
51)	2,6-DNT	8.32	165	253934	54.77747 ppb		86
52)	Acenaphthylene	8.38	152	1394112	52.10752 ppb		99
53)	3-Nitroaniline	8.03	138	313350	54.53190 ppb		99
54)	Acenaphthene	8.58	154	903007	50.79254 ppb		98
55)	2,4-Dinitrophenol	8.62	184	142344	56.67099 ppb		96
56)	4-Nitrophenol	8.71	65	152089	46.98445 ppb		90
57)	Dibenzofuran	8.79	168	1307871	51.64404 ppb		93
58)	2,4-DNT	8.78	165	358002	54.27863 ppb		91
59)	2,3,4,6-Tetrachlorophenol	8.93	232	281765	52.45183 ppb		97
60)	Diethyl phthalate	9.08	149	1028763	50.47629 ppb		99
61)	4-Chlorophenyl phenyl ethe	9.19	204	603047	51.31440 ppb		98
62)	Fluorene	9.19	166	1103211	52.66461 ppb		99
63)	4-Nitroaniline	8.50	138	261805	54.43540 ppb		98
66)	4,6-Dinitro-2-methylphenol	9.25	198	239157	55.01346 ppb		93
67)	Diphenyl amine	9.34	169	1749476	103.42677 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1749476	103.42677 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	814127	49.71501 ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	360880	53.93630 ppb		97
71)	Hexachlorobenzene	9.82	284	379588	52.78771 ppb	#	92
72)	Atrazine	9.96	200	109105	17.55271 ppb		98
73)	Pentachlorophenol	10.05	266	243986	49.86658 ppb		100
74)	Phenanthrene	10.30	178	1563387	51.53163 ppb		99
75)	Anthracene	10.37	178	1678868	53.24543 ppb		98
76)	Carbazol	10.55	167	1476636	52.06456 ppb		98
77)	Di-n-butylphthalate	10.98	149	1803204	52.53779 ppb		99
78)	Fluoranthene	11.69	202	1840482	52.46433 ppb	#	97
80)	Benzidine	11.85	184	303288	29.61426 ppb	#	97
81)	Pyrene	11.95	202	1918864	52.64337 ppb		99
83)	Butyl benzylphthalate	12.73	149	786746	52.38514 ppb		83
84)	3,3'-Dichlorobenzidine	13.33	252	741193	61.41426 ppb		97
85)	Benz (a) anthracene	13.35	228	1977825	53.88663 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.40	149	1147417	54.47990 ppb		99
87)	Chrysene	13.39	228	1823348	51.62291 ppb		100
88)	Di-n-octylphthalate	14.13	149	1963692	56.94098 ppb		97
90)	Benzo (b) fluoranthene	14.57	252	1882983	54.08663 ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1746292	51.78210 ppb		98
92)	Benzo (a) pyrene	14.99	252	1739543	54.64635 ppb		98
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1970974	54.83976 ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1753848	56.01722 ppb		97
95)	Benzo (g,h,i) perylene	17.25	276	1679430	53.78929 ppb		98

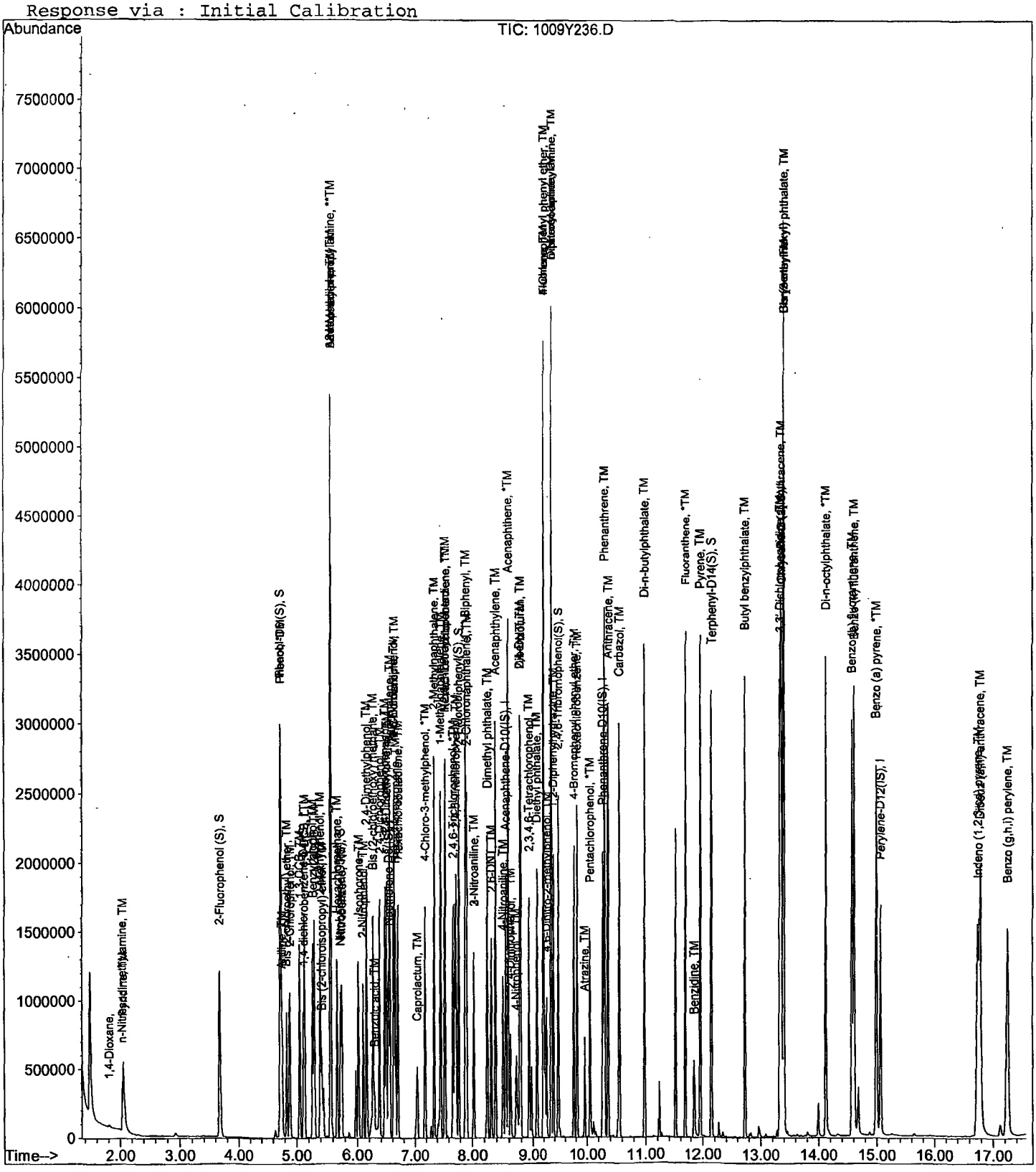
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y236.D Vial: 36
Acq On : 23 Oct 20 20:35 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 9:32 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y222.D Vial: 22
Acq On : 23 Oct 20 14:38 Operator: MA
Sample : BA20268W15 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 16:16 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	147428	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	593023	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	350263	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	694097	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.35	240	703427	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	681271	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1040194	227.55235 ppb	0.00
Spiked Amount 250.000			Recovery	= 91.021%	
6) Phenol-D6 (S)	4.72	99	1283231	222.67331 ppb	0.01
Spiked Amount 250.000			Recovery	= 89.069%	
22) Nitrobenzene-D5(S)	5.72	82	598794	120.66361 ppb	0.00
Spiked Amount 125.000			Recovery	= 96.531%	
46) 2-Fluorobiphenyl(S)	7.77	172	1415477	119.85258 ppb	0.00
Spiked Amount 125.000			Recovery	= 95.882%	
64) 2,4,6-Tribromophenol(S)	9.47	330	507714	250.46664 ppb	0.00
Spiked Amount 250.000			Recovery	= 100.187%	
82) Terphenyl-D14(S)	12.15	244	2206118	136.00218 ppb	0.00
Spiked Amount 125.000			Recovery	= 108.802%	

Target Compounds Qvalue

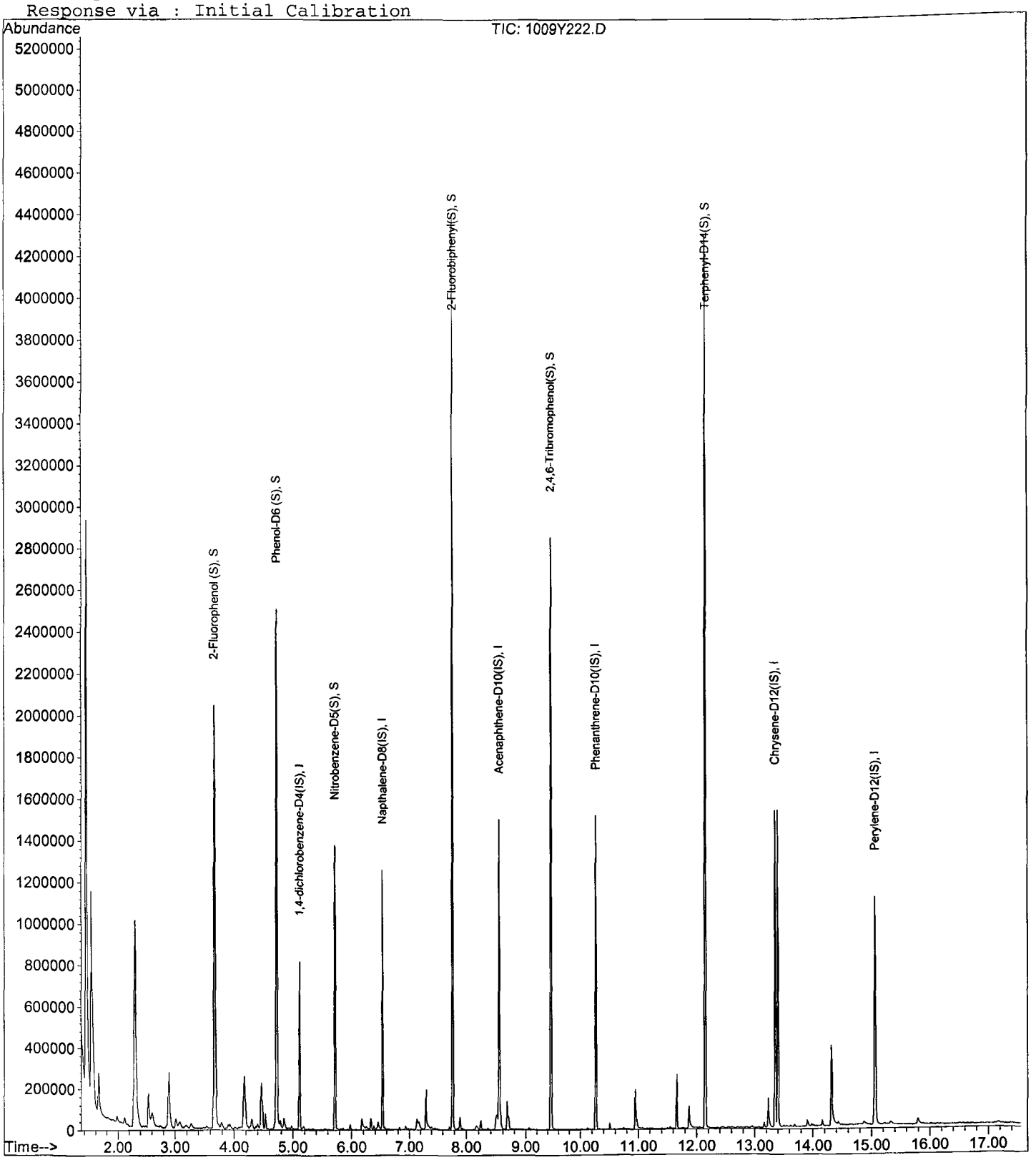
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y222.D Vial: 22
Acq On : 23 Oct 20 14:38 Operator: MA
Sample : BA20268W15 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 16:16 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y219.D Vial: 19
Acq On : 23 Oct 20 13:21 Operator: MA
Sample : 201021A BLK 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 26 17:55 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	148761	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	607132	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	370629	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	718091	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	743070	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	716825	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	954589	206.95422 ppb	0.01
Spiked Amount 250.000			Recovery =	82.782%	
6) Phenol-D6 (S)	4.72	99	1197709	205.97073 ppb	0.01
Spiked Amount 250.000			Recovery =	82.388%	
22) Nitrobenzene-D5(S)	5.72	82	563083	110.83061 ppb	0.00
Spiked Amount 125.000			Recovery =	88.665%	
46) 2-Fluorobiphenyl(S)	7.77	172	1335300	106.85093 ppb	0.00
Spiked Amount 125.000			Recovery =	85.481%	
64) 2,4,6-Tribromophenol(S)	9.47	330	465166	216.86706 ppb	0.00
Spiked Amount 250.000			Recovery =	86.747%	
82) Terphenyl-D14(S)	12.15	244	2106213	122.91609 ppb	0.00
Spiked Amount 125.000			Recovery =	98.333%	

Target Compounds Qvalue

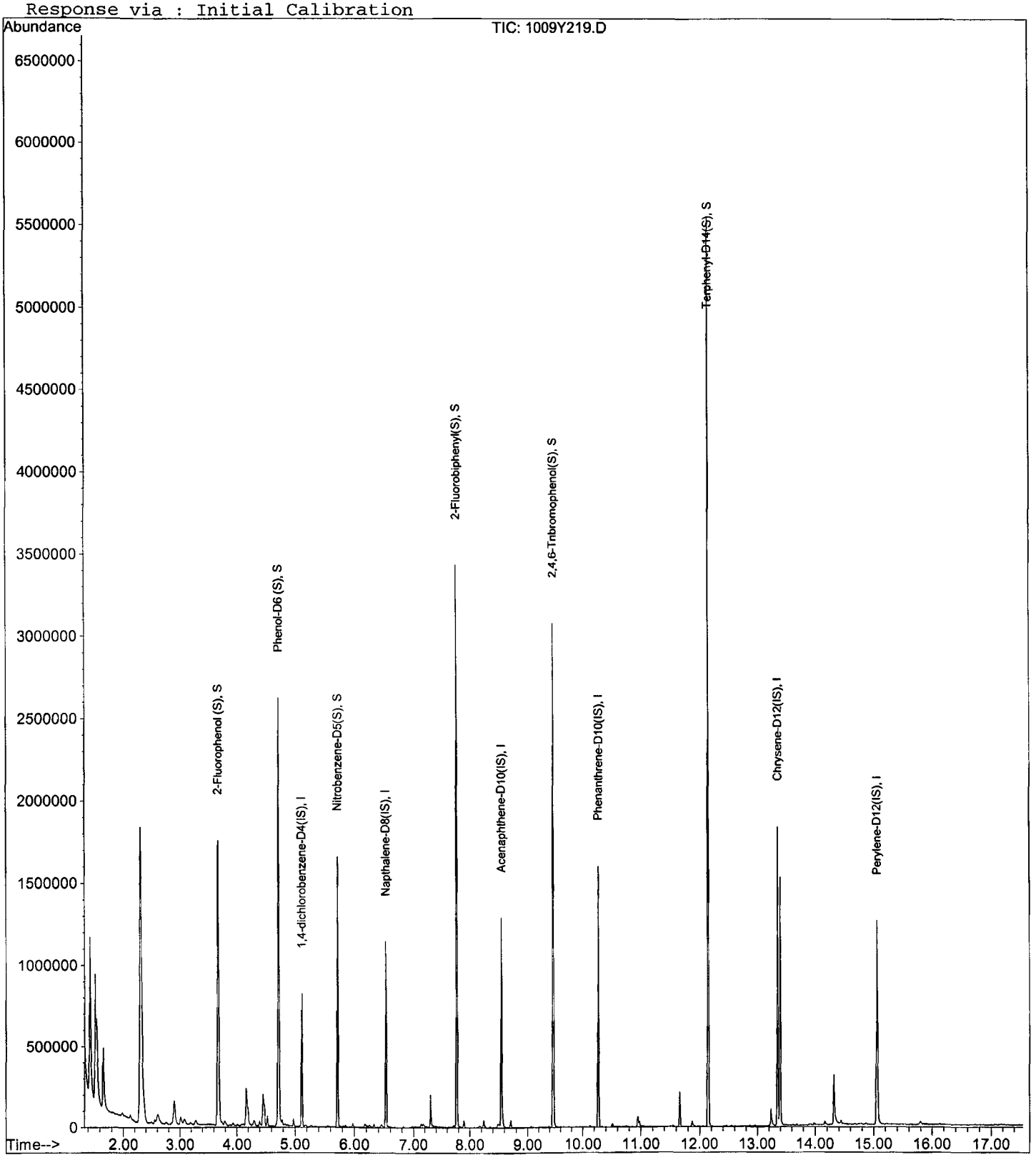
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y219.D Vial: 19
Acq On : 23 Oct 20 13:21 Operator: MA
Sample : 201021A BLK 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 26 17:55 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y220.D Vial: 20
Acq On : 23 Oct 20 13:47 Operator: MA
Sample : 201021A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 13:50 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	144438	40.00000	ppb	0.00
21) Napthalene-D8(IS)	6.53	136	584633	40.00000	ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	352993	40.00000	ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	710154	40.00000	ppb	0.00
79) Chrysene-D12(IS)	13.36	240	702959	40.00000	ppb	0.00
89) Perylene-D12(IS)	15.06	264	698448	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.67	112	1043972	233.10648	ppb	0.01
Spiked Amount 250.000			Recovery = 93.242%			
6) Phenol-D6 (S)	4.73	99	1301517	230.52162	ppb	0.02
Spiked Amount 250.000			Recovery = 92.209%			
22) Nitrobenzene-D5(S)	5.73	82	560854	114.64019	ppb	0.00
Spiked Amount 125.000			Recovery = 91.712%			
46) 2-Fluorobiphenyl(S)	7.78	172	1324687	111.29766	ppb	0.00
Spiked Amount 125.000			Recovery = 89.038%			
64) 2,4,6-Tribromophenol(S)	9.48	330	478529	234.24331	ppb	0.00
Spiked Amount 250.000			Recovery = 93.697%			
82) Terphenyl-D14(S)	12.15	244	2083485	128.52765	ppb	0.00
Spiked Amount 125.000			Recovery = 102.822%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	7177	6.92529		77
3) n-Nitrosodimethylamine	2.03	42	95311	59.49369	ppb	98
4) Pyridine	2.06	79	120619	26.92065	ppb	98
7) Phenol	4.74	94	375459	58.05992	ppb	97
8) Aniline	4.76	93	113632	22.41546	ppb	97
9) Bis (2-chloroethyl) ether	4.83	63	152524	58.37123	ppb	97
10) 2-Chlorophenol	4.89	128	302433	56.18033	ppb	98
11) 1,3-DCB	5.05	146	294334	51.15792	ppb	97
12) 1,4-DCB	5.13	146	301161	51.28281	ppb	97
13) Benzyl alcohol	5.27	108	163490	54.30959	ppb	93
14) 1,2-DCB	5.30	146	290493	52.63600	ppb	97
15) 2-Methylphenol	5.39	107	223283	56.04131	ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	203352	59.35522	ppb	94
17) Acetophenone	5.56	105	363439	52.29442	ppb	83
18) 3&4-Methylphenol	5.57	107	616376	111.40339	ppb	98
19) n-Nitrosodi-n-propylamine	5.57	70	192205	54.90489	ppb	97
20) Hexachloroethane	5.67	117	90029	43.50437	ppb	89
23) Nitrobenzene	5.74	77	283970	56.36550	ppb	91
24) Isophorone	6.01	82	477572	55.35406	ppb	96
25) 2-Nitrophenol	6.10	139	172530	56.86900	ppb	92
26) 2,4-Dimethylphenol	6.15	122	259436	54.74017	ppb	98
27) Benzoic acid	6.27	105	156764	51.66187	ppb	97
28) Bis (2-chloroethoxy) metha	6.26	93	315000	57.50768	ppb	98
29) 2,4-Dichlorophenol	6.38	162	259783	55.09541	ppb	94
30) 1,2,4-Trichlorobenzene	6.47	180	267313	50.87120	ppb	97
31) 3,4-Dimethylphenol	6.50	107	370041	55.88664	ppb	94
32) Naphthalene	6.55	128	849275	55.37644	ppb	99
33) 4-Chloroaniline	6.62	127	141667	21.95582	ppb	97
34) 2,6-Dichlorophenol	6.63	162	255957	55.08249	ppb	98
35) Hexachloropropene	6.65	213	115173	30.11701	ppb	99
36) Hexachlorobutadiene	6.70	225	137307	42.54538	ppb	99
37) Caprolactum	7.03	55	93047	60.59457	ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y220.D Vial: 20
Acq On : 23 Oct 20 13:47 Operator: MA
Sample : 201021A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 13:50 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	265648	55.12490	ppb		99
39)	2-Methylnaphthalene	7.34	142	594500	57.43685	ppb		100
40)	1-Methylnaphthalene	7.45	142	569230	53.10428	ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	54464	13.84124	ppb		100
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	296512	52.04153	ppb		97
44)	2,4,6-Trichlorophenol	7.67	196	209628	55.42572	ppb		97
45)	2,4,5-Trichlorophenol	7.72	196	225043	56.79574	ppb		99
47)	1,1'-Biphenyl	7.89	154	748781	55.12667	ppb		97
48)	2-Chloronaphthalene	7.91	162	585311	54.48387	ppb		95
49)	2-Nitroaniline	8.03	65	142457	53.15176	ppb		96
50)	Dimethyl phthalate	8.25	163	752441	58.53868	ppb		98
51)	2,6-DNT	8.32	165	167835	58.77427	ppb	#	79
52)	Acenaphthylene	8.38	152	903101	54.79774	ppb		99
53)	3-Nitroaniline	8.03	138	201181	56.83704	ppb		96
54)	Acenaphthene	8.58	154	586476	53.55285	ppb		99
55)	2,4-Dinitrophenol	8.62	184	83465	58.84463	ppb		97
56)	4-Nitrophenol	8.72	65	100488	50.39577	ppb		84
57)	Dibenzofuran	8.79	168	853213	54.69358	ppb		91
58)	2,4-DNT	8.77	165	230322	56.68947	ppb		95
59)	2,3,4,6-Tetrachlorophenol	8.93	232	185969	56.20019	ppb		97
60)	Diethyl phthalate	9.07	149	683685	54.45675	ppb		97
61)	4-Chlorophenyl phenyl ethe	9.19	204	395114	54.58008	ppb		98
62)	Fluorene	9.19	166	714060	55.33737	ppb		98
63)	4-Nitroaniline	8.50	138	38066	12.84885	ppb	#	76
66)	4,6-Dinitro-2-methylphenol	9.24	198	142611	51.59440	ppb	#	84
67)	Diphenyl amine	9.34	169	935437	86.97676	ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	935437	86.97676	ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	520820	50.02035	ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	234061	55.01880	ppb		97
71)	Hexachlorobenzene	9.82	284	249571	54.58561	ppb	#	92
72)	Atrazine	9.96	200	65329	16.52986	ppb		95
73)	Pentachlorophenol	10.06	266	158857	51.06399	ppb		98
74)	Phenanthrene	10.30	178	1035009	53.65562	ppb		99
75)	Anthracene	10.36	178	1049792	52.36399	ppb		99
76)	Carbazol	10.55	167	955957	53.01159	ppb		97
77)	Di-n-butylphthalate	10.98	149	1233158	56.50792	ppb		98
78)	Fluoranthene	11.69	202	1186244	53.18269	ppb	#	97
80)	Benzidine	11.86	184	15109	2.39717	ppb	#	73
81)	Pyrene	11.95	202	1267201	56.48874	ppb		98
83)	Butyl benzylphthalate	12.72	149	534092	57.78387	ppb		83
84)	3,3'-Dichlorobenzidine	13.33	252	43158	5.81054	ppb		94
85)	Benz (a) anthracene	13.35	228	1195850	52.94034	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.40	149	1242559	95.86255	ppb		98
87)	Chrysene	13.39	228	1217795	56.02270	ppb		99
88)	Di-n-octylphthalate	14.13	149	1291080	60.83054	ppb		96
90)	Benzo (b) fluoranthene	14.57	252	1229082	56.69222	ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1205470	57.40084	ppb		99
92)	Benzo (a) pyrene	14.99	252	1080215	54.49232	ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1237830	55.30632	ppb		96
94)	Dibenz (a,h) anthracene	16.78	278	1140859	58.51411	ppb		99
95)	Benzo (g,h,i) perylene	17.25	276	1106770	56.92333	ppb		99

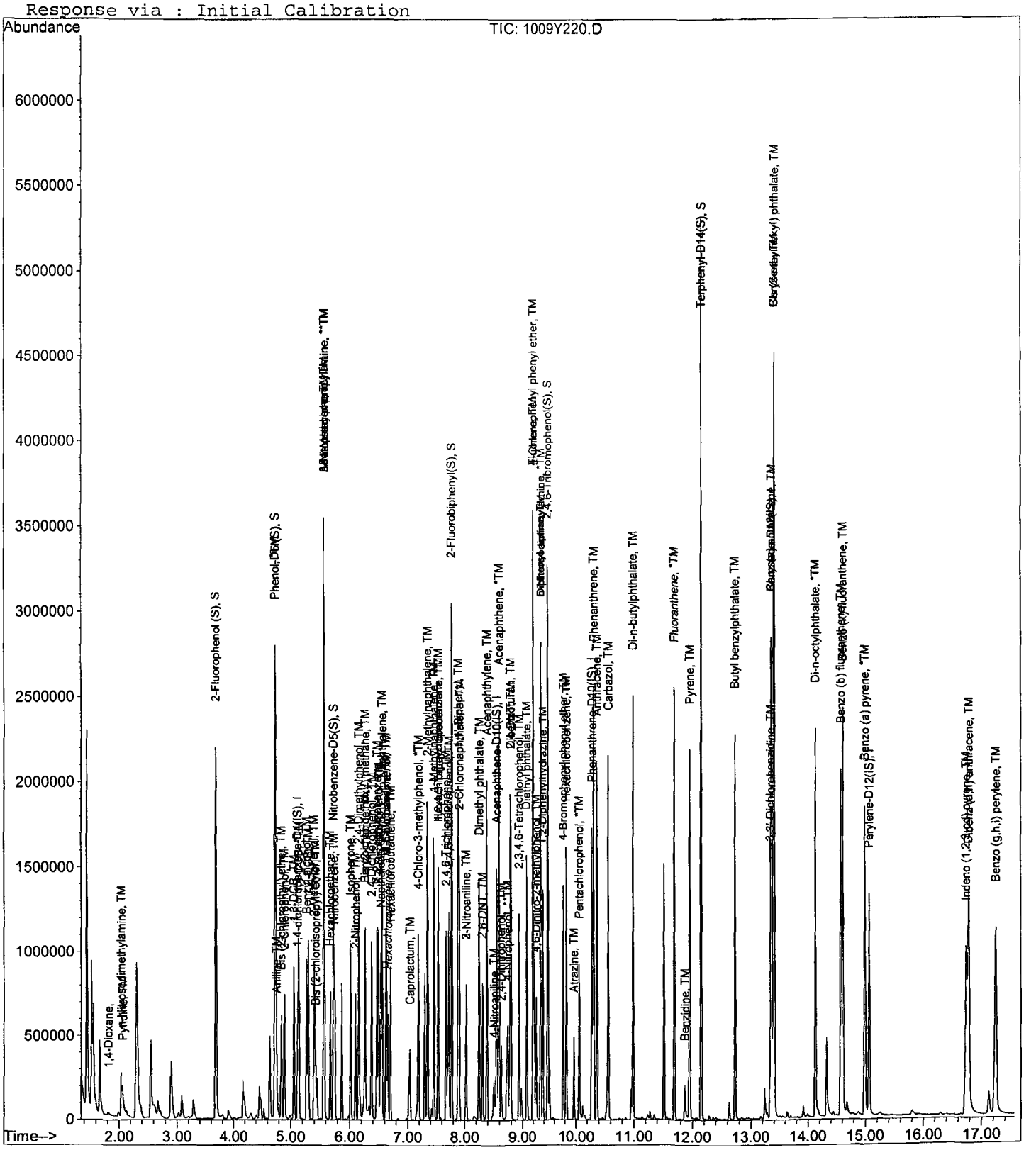
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y220.D Vial: 20
Acq On : 23 Oct 20 13:47 Operator: MA
Sample : 201021A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 13:50 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y221.D Vial: 21
Acq On : 23 Oct 20 14:13 Operator: MA
Sample : 201021A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	143484	40.00000	ppb		0.00
21) Napthalene-D8(IS)	6.53	136	576643	40.00000	ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	351287	40.00000	ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	691284	40.00000	ppb		0.00
79) Chrysene-D12(IS)	13.36	240	694410	40.00000	ppb		0.00
89) Perylene-D12(IS)	15.06	264	701317	40.00000	ppb		0.00
System Monitoring Compounds							
5) 2-Fluorophenol (S)	3.68	112	1085052	243.89002	ppb		0.02
Spiked Amount 250.000			Recovery	= 97.556%			
6) Phenol-D6 (S)	4.73	99	1363850	243.16800	ppb		0.02
Spiked Amount 250.000			Recovery	= 97.267%			
22) Nitrobenzene-D5(S)	5.72	82	587082	121.66402	ppb		0.00
Spiked Amount 125.000			Recovery	= 97.331%			
46) 2-Fluorobiphenyl(S)	7.78	172	1367124	115.42096	ppb		0.00
Spiked Amount 125.000			Recovery	= 92.337%			
64) 2,4,6-Tribromophenol(S)	9.48	330	513418	252.54224	ppb		0.00
Spiked Amount 250.000			Recovery	= 101.017%			
82) Terphenyl-D14(S)	12.15	244	2168912	135.44474	ppb		0.00
Spiked Amount 125.000			Recovery	= 108.356%			
Target Compounds							Qvalue
2) 1,4-Dioxane	1.80	58	7007	6.80621			81
3) n-Nitrosodimethylamine	2.03	42	99562	62.56039	ppb		94
4) Pyridine	2.05	79	244956	55.03462	ppb		99
7) Phenol	4.74	94	401083	62.43472	ppb		94
8) Aniline	4.76	93	231552	45.98048	ppb		97
9) Bis (2-chloroethyl) ether	4.83	63	156179	60.16741	ppb		92
10) 2-Chlorophenol	4.89	128	318886	59.63052	ppb		98
11) 1,3-DCB	5.05	146	297297	52.01648	ppb		97
12) 1,4-DCB	5.13	146	305581	52.38143	ppb		97
13) Benzyl alcohol	5.27	108	173888	58.14776	ppb		95
14) 1,2-DCB	5.30	146	294310	53.68219	ppb		96
15) 2-Methylphenol	5.40	107	236042	59.63756	ppb		97
16) Bis (2-chloroisopropyl) et	5.42	45	211840	62.24385	ppb		96
17) Acetophenone	5.56	105	383531	55.55234	ppb		83
18) 3&4-Methylphenol	5.57	107	650258	118.30862	ppb		97
19) n-Nitrosodi-n-propylamine	5.57	70	203850	58.61855	ppb		97
20) Hexachloroethane	5.67	117	89150	43.36604	ppb		85
23) Nitrobenzene	5.74	77	296191	59.60587	ppb		90
24) Isophorone	6.01	82	500207	58.78096	ppb		95
25) 2-Nitrophenol	6.10	139	183759	61.40955	ppb	#	89
26) 2,4-Dimethylphenol	6.15	122	264157	56.50857	ppb		99
27) Benzoic acid	6.27	105	166460	54.82315	ppb		96
28) Bis (2-chloroethoxy) metha	6.26	93	331226	61.30784	ppb		98
29) 2,4-Dichlorophenol	6.37	162	272584	58.61130	ppb		94
30) 1,2,4-Trichlorobenzene	6.47	180	272330	52.54406	ppb		97
31) 3,4-Dimethylphenol	6.50	107	384742	58.91204	ppb		91
32) Naphthalene	6.55	128	885765	58.55601	ppb		99
33) 4-Chloroaniline	6.62	127	238397	37.45915	ppb		97
34) 2,6-Dichlorophenol	6.63	162	268050	58.48422	ppb		98
35) Hexachloropropene	6.65	213	107252	28.43432	ppb		98
36) Hexachlorobutadiene	6.70	225	133726	42.00992	ppb		97
37) Caprolactum	7.03	55	95798	63.25052	ppb		100

(#) = qualifier out of range (m) = manual integration

Data File : M:\YODA\DATA\Y201009\1009Y221.D Vial: 21
Acq On : 23 Oct 20 14:13 Operator: MA
Sample : 201021A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	273704	57.58358	ppb		99
39)	2-Methylnaphthalene	7.34	142	612687	60.01416	ppb		99
40)	1-Methylnaphthalene	7.45	142	596735	56.44163	ppb		98
42)	Hexachlorocyclopentadiene	7.53	237	55488	14.16995	ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	313594	55.30693	ppb		98
44)	2,4,6-Trichlorophenol	7.67	196	216932	57.63545	ppb		98
45)	2,4,5-Trichlorophenol	7.72	196	234518	59.47445	ppb		98
47)	1,1'-Biphenyl	7.89	154	795427	58.84523	ppb		98
48)	2-Chloronaphthalene	7.91	162	618017	57.80770	ppb		96
49)	2-Nitroaniline	8.03	65	149220	55.94547	ppb		92
50)	Dimethyl phthalate	8.25	163	780100	60.98524	ppb		98
51)	2,6-DNT	8.31	165	176086	61.96316	ppb	#	78
52)	Acenaphthylene	8.38	152	934792	56.99613	ppb		100
53)	3-Nitroaniline	8.03	138	213163	60.51462	ppb		95
54)	Acenaphthene	8.58	154	610964	56.05986	ppb		99
55)	2,4-Dinitrophenol	8.62	184	94010	63.89283	ppb		98
56)	4-Nitrophenol	8.72	65	107932	54.39189	ppb		86
57)	Dibenzofuran	8.79	168	896117	57.72283	ppb		92
58)	2,4-DNT	8.77	165	246178	60.88639	ppb		94
59)	2,3,4,6-Tetrachlorophenol	8.93	232	196288	59.60669	ppb		99
60)	Diethyl phthalate	9.07	149	716027	57.30982	ppb		97
61)	4-Chlorophenyl phenyl ethe	9.19	204	412057	57.19697	ppb		99
62)	Fluorene	9.19	166	743261	57.88009	ppb		99
63)	4-Nitroaniline	8.50	138	142881	48.46247	ppb		89
66)	4,6-Dinitro-2-methylphenol	9.24	198	153772	57.15087	ppb	#	84
67)	Diphenyl amine	9.34	169	1122014	107.17241	ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1122014	107.17241	ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	554717	54.73014	ppb		98
70)	4-Bromophenyl phenyl ether	9.76	248	251708	60.78201	ppb		99
71)	Hexachlorobenzene	9.82	284	259932	58.40363	ppb	#	93
72)	Atrazine	9.96	200	106274	27.62399	ppb		96
73)	Pentachlorophenol	10.05	266	171250	56.55031	ppb		97
74)	Phenanthrene	10.30	178	1070835	57.02820	ppb		99
75)	Anthracene	10.37	178	1095227	56.12155	ppb		99
76)	Carbazol	10.55	167	1015132	57.82971	ppb		96
77)	Di-n-butylphthalate	10.98	149	1255328	59.09406	ppb		99
78)	Fluoranthene	11.68	202	1258231	57.94990	ppb	#	97
80)	Benzidine	11.86	184	121253	19.47463	ppb		96
81)	Pyrene	11.95	202	1331717	60.09556	ppb		99
83)	Butyl benzylphthalate	12.72	149	563643	61.73176	ppb		86
84)	3,3'-Dichlorobenzidine	13.33	252	69028	9.40793	ppb		97
85)	Benz (a) anthracene	13.35	228	1254684	56.22875	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.40	149	1042892	81.44891	ppb		99
87)	Chrysene	13.39	228	1283698	59.78149	ppb		99
88)	Di-n-octylphthalate	14.13	149	1382295	65.93003	ppb		96
90)	Benzo (b) fluoranthene	14.57	252	1275626	58.59839	ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1259117	59.71008	ppb		98
92)	Benzo (a) pyrene	14.99	252	1141406	57.34360	ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1300804	57.88224	ppb		99
94)	Dibenz (a,h) anthracene	16.78	278	1203053	61.45159	ppb		98
95)	Benzo (g,h,i) perylene	17.25	276	1162557	59.54796	ppb		100

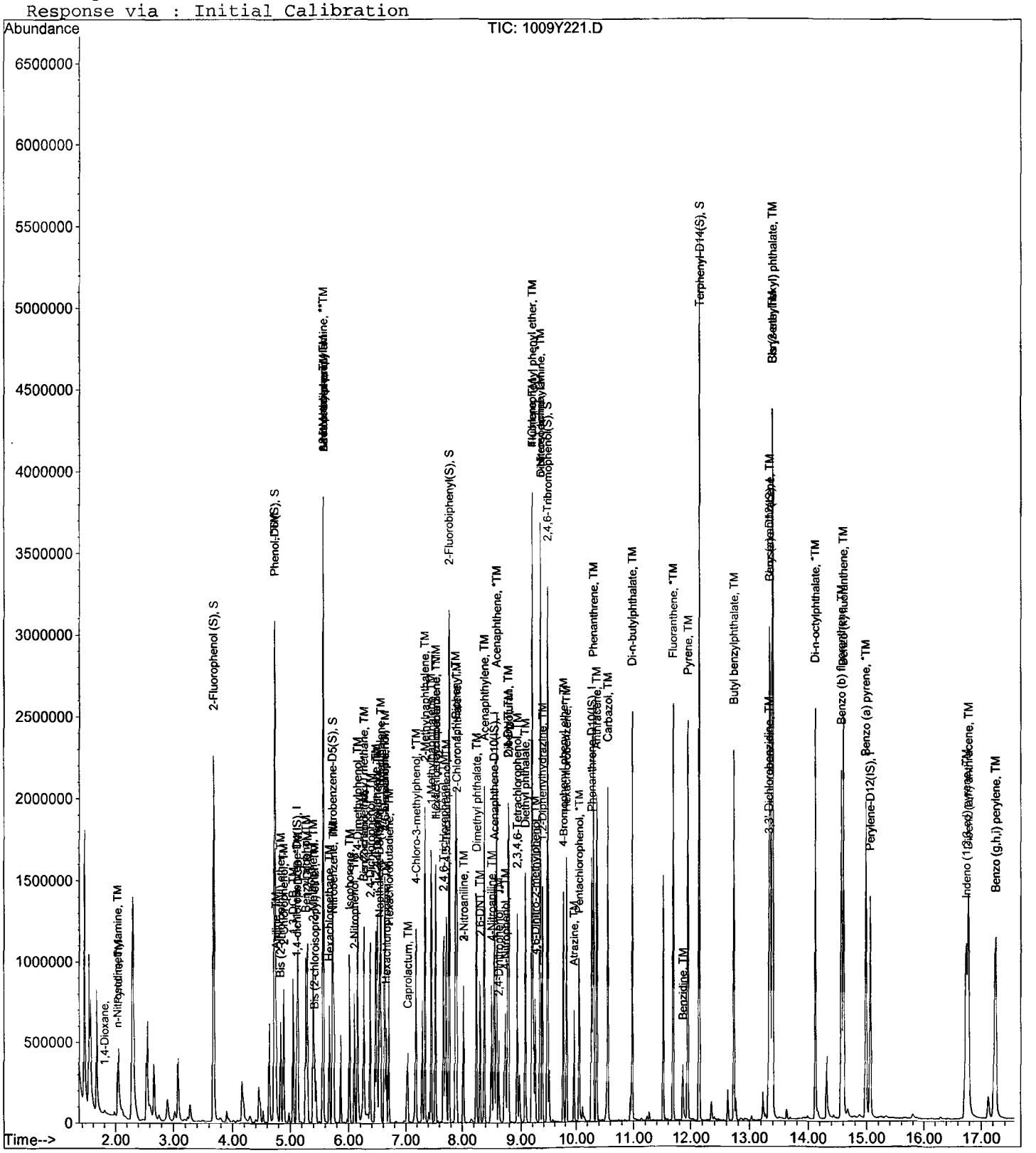
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y221.D Vial: 21
Acq On : 23 Oct 20 14:13 Operator: MA
Sample : 201021A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:32 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration

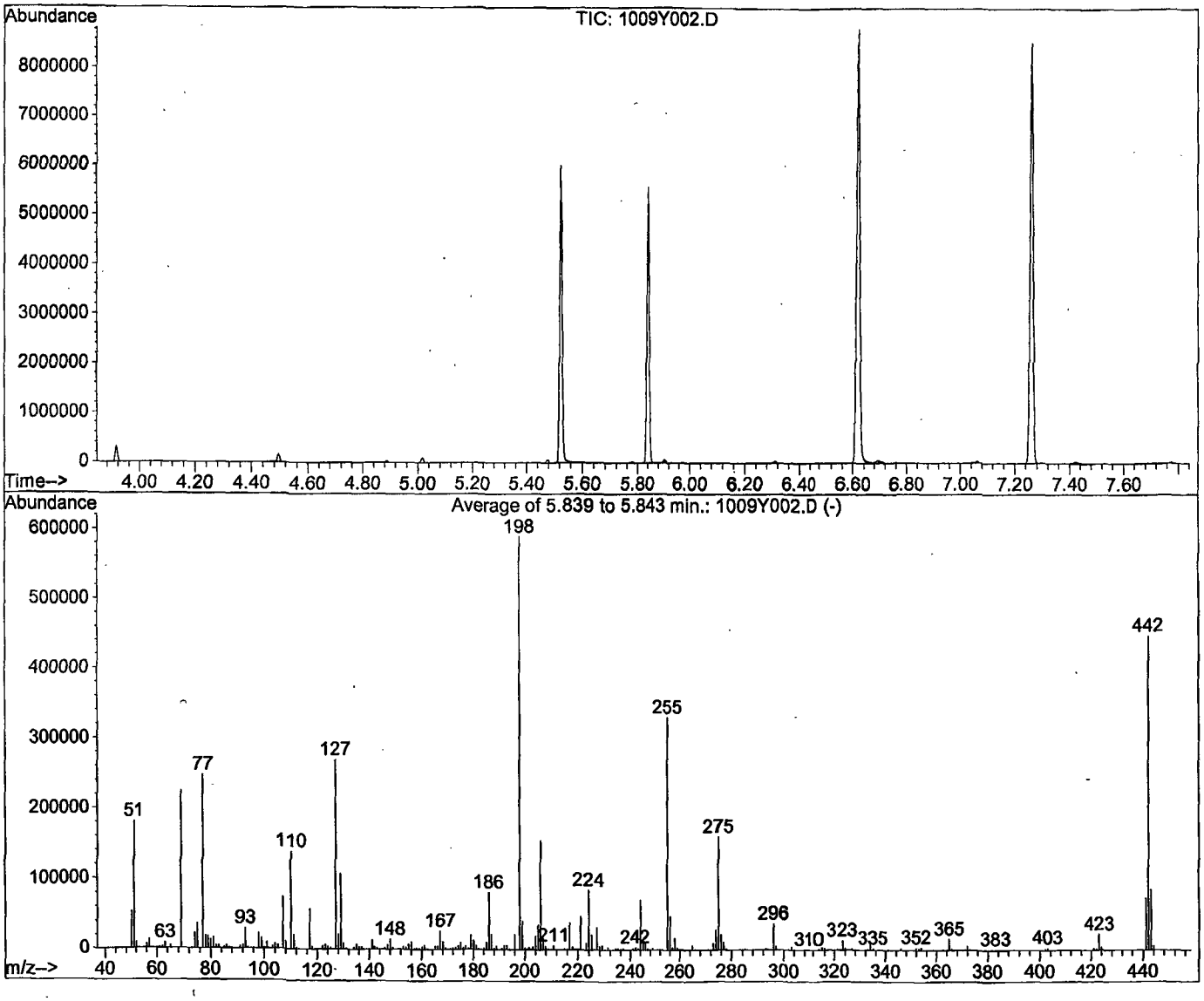


DFTPP

Data File : M:\YODA\DATA\Y201009\1009Y002.D
Acq On : 9 Oct 20 10:55
Sample : SV TUNE 10/02/20
Misc :

Vial: 2
Operator: MA
Inst : Yoda
Multiplr: 1.00

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 902, 903, 904; Background Corrected with Scan 893

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.7	181099	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.2	468	PASS
127	198	10	80	45.8	270485	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	590528	PASS
199	198	5	9	6.9	40837	PASS
275	198	10	60	27.3	160981	PASS
365	198	1	100	2.7	15871	PASS
441	442	0.01	24	16.5	74272	PASS
442	198	50	500	76.1	449344	PASS
443	442	15	24	19.4	86981	PASS

Data File Name:	**1009Y002.D**
Data File Path:	**M:\YODA\DATA\Y201009**
Operator:	**MA**
Date Acquired:	**9 Oct 20 10:55**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**2**
Instrument Name:	**Yoda**

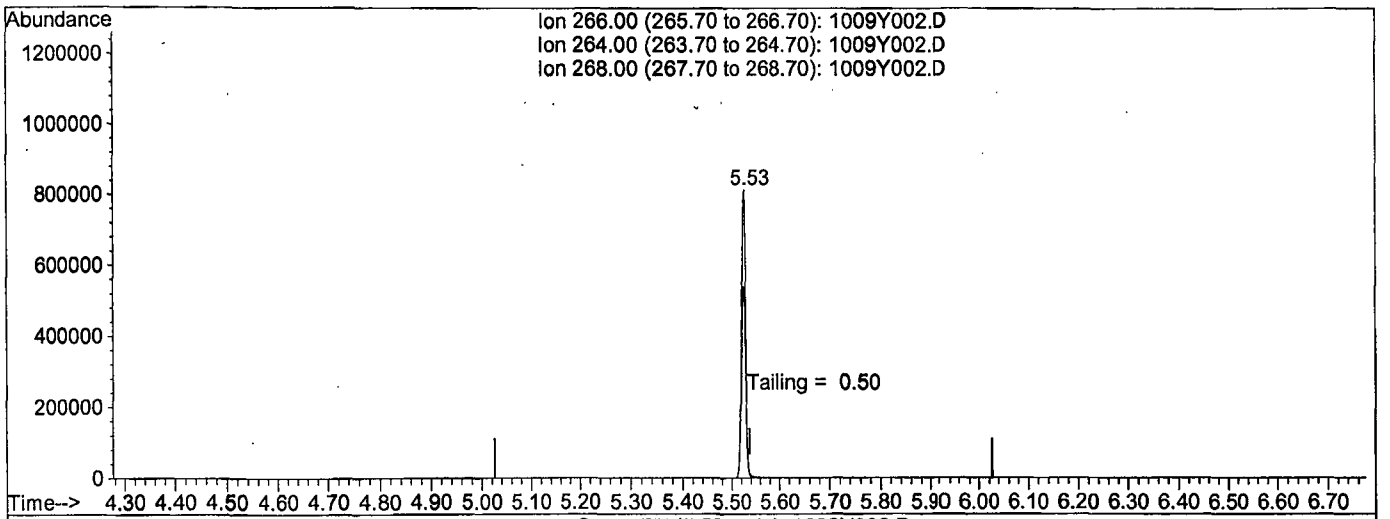
#	Name	Ret Time	Target Response
1)	DDT	7.26	61419600
2)	DDD	7.02	151178
3)	DDE	5.93	385231

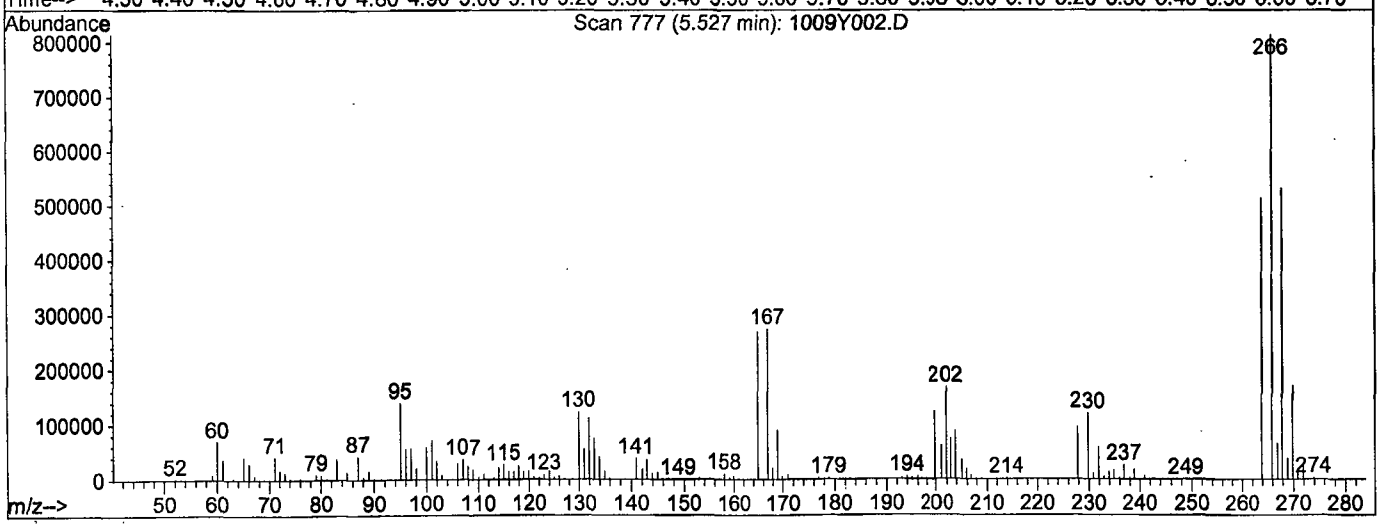
Breakdown **0.87**

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y002.D Vial: 2
Acq On : 9 Oct 20 10:55 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 10:49 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration





TIC: 1009Y002.D

(5) Pentachlorophenol

5.53min 0.0000

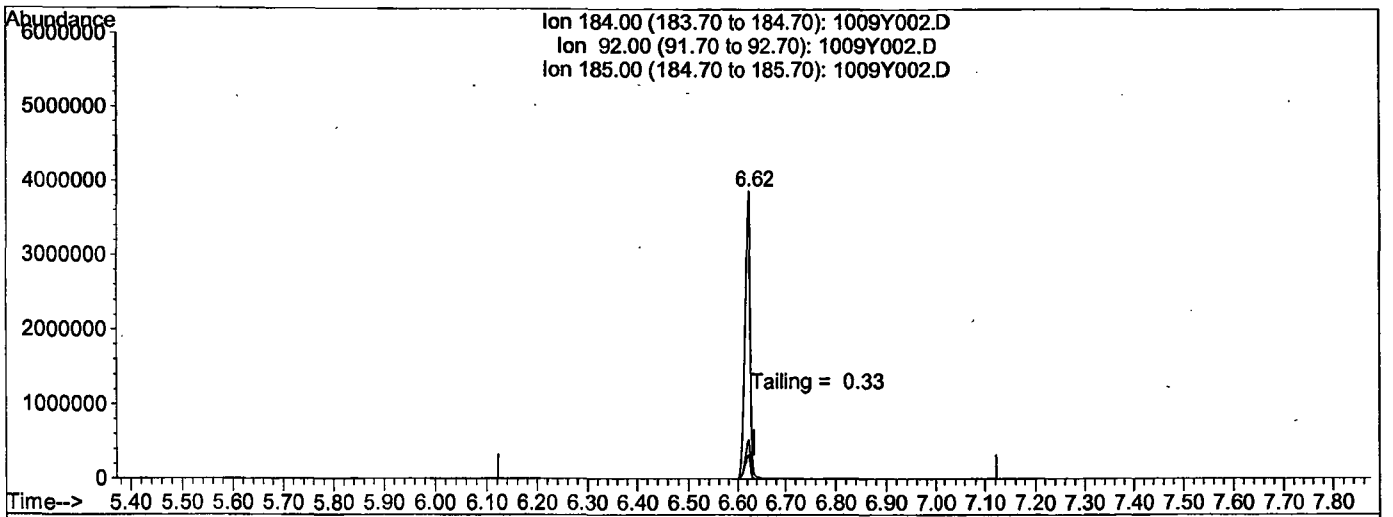
response 5042204

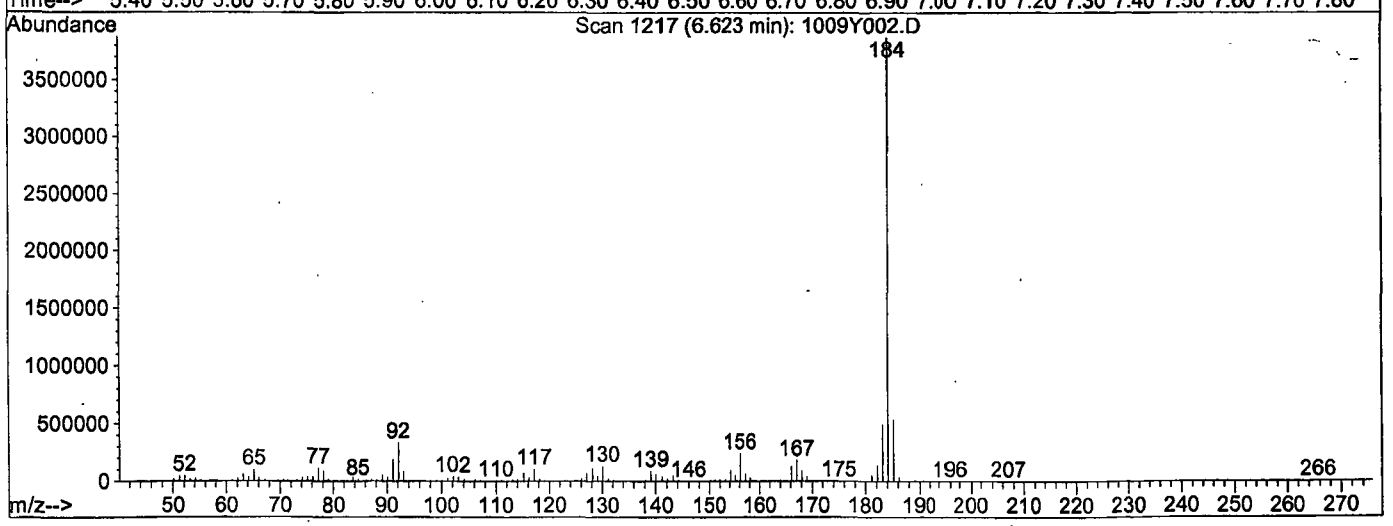
Ion	Exp%	Act%
266.00	100	100
264.00	63.10	64.09
268.00	65.40	65.83
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y002.D Vial: 2
Acq On : 9 Oct 20 10:55 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 10:49 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration





TIC: 1009Y002.D

(6) Benzidine

6.62min 0.0000

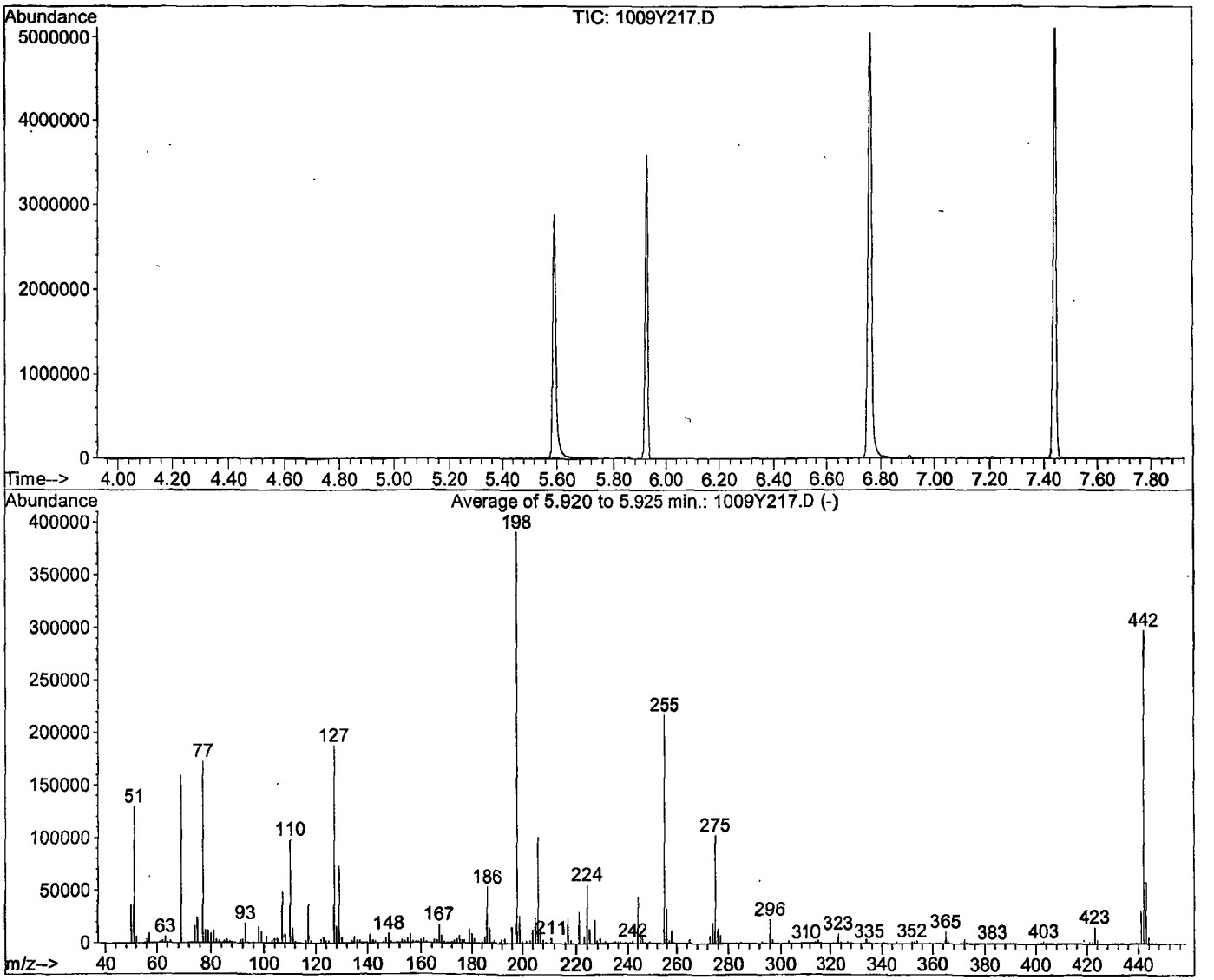
response 29089801

Ion	Exp%	Act%
184.00	100	100
92.00	8.50	8.82
185.00	13.80	13.96
0.00	0.00	0.00

DFTPP

Data File : M:\YODA\DATA\Y201009\1009Y217.D Vial: 17
Acq On : 23 Oct 20 12:41 Operator: MA
Sample : SVTUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 935, 936, 937; Background Corrected with Scan 926

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.1	129585	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.4	584	PASS
127	198	10	80	48.0	187840	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	390997	PASS
199	198	5	9	6.6	25813	PASS
275	198	10	60	26.2	102549	PASS
365	198	1	100	2.8	10891	PASS
441	442	0.01	24	10.6	31461	PASS
442	198	50	500	76.2	297856	PASS
443	442	15	24	19.6	58232	PASS

1009Y217.D Y1009.M Fri Oct 23 12:33:49 2020

Data File Name:	**1009Y217.D**
Data File Path:	**M:\YODA\DATA\Y201009**
Operator:	**MA**
Date Acquired:	**23 Oct 2020 12:41**
Method File:	**DFTPP2.M**
Sample Name:	**SVTUNE 10/02/20**
Vial Number:	**17**
Instrument Name:	**Yoda**

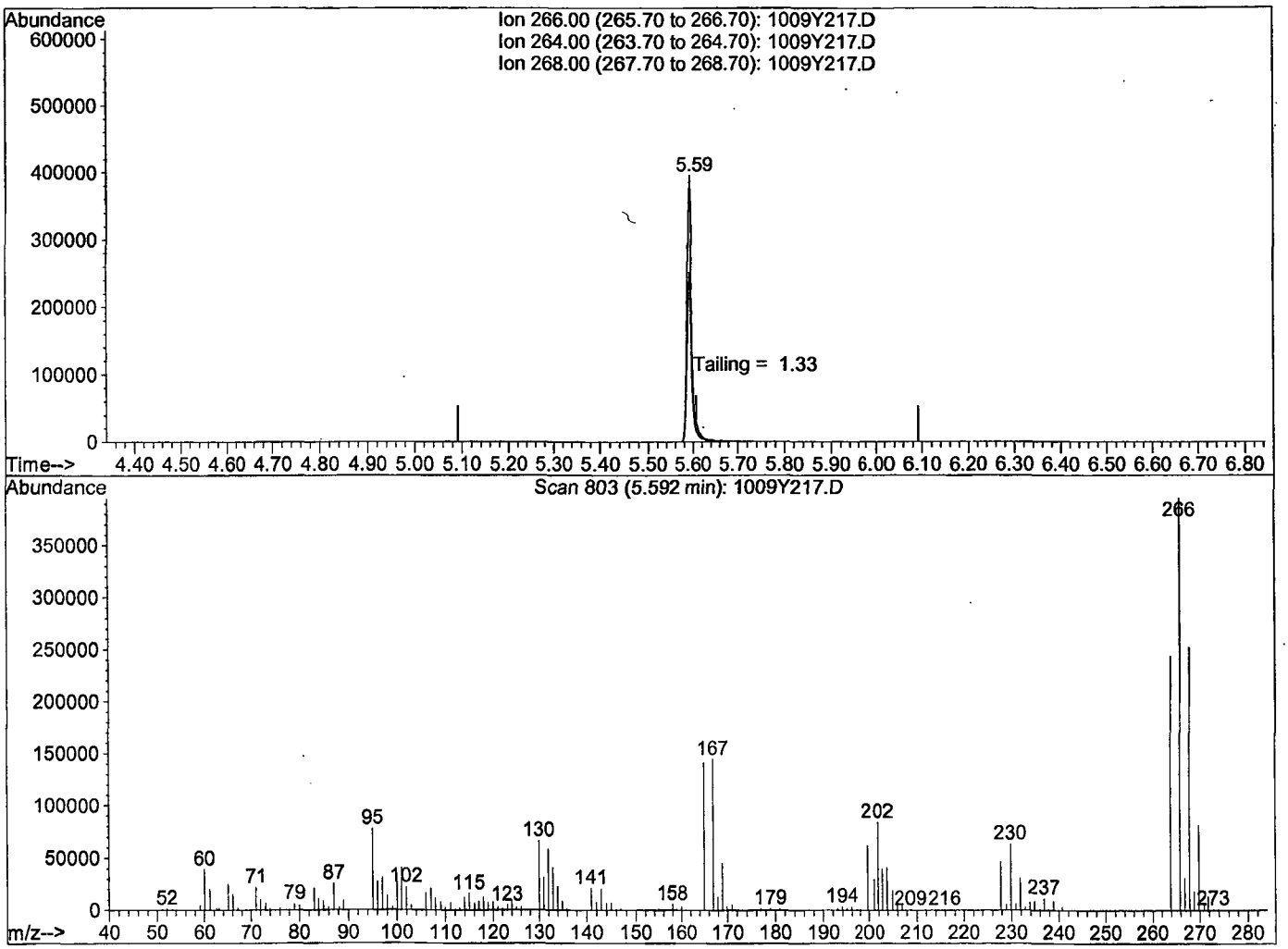
#	Name	Ret Time	Target Response
1)	DDT	7.44	40186600
2)	DDD	7.21	150397
3)	DDE	6.21	0

Breakdown **0.37**

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y217.D Vial: 17
Acq On : 23 Oct 20 12:41 Operator: MA
Sample : SVTUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 12:34 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 23 12:34:41 2020
Response via : Single Level Calibration



TIC: 1009Y217.D

(5) Pentachlorophenol

5.59min 0.0000

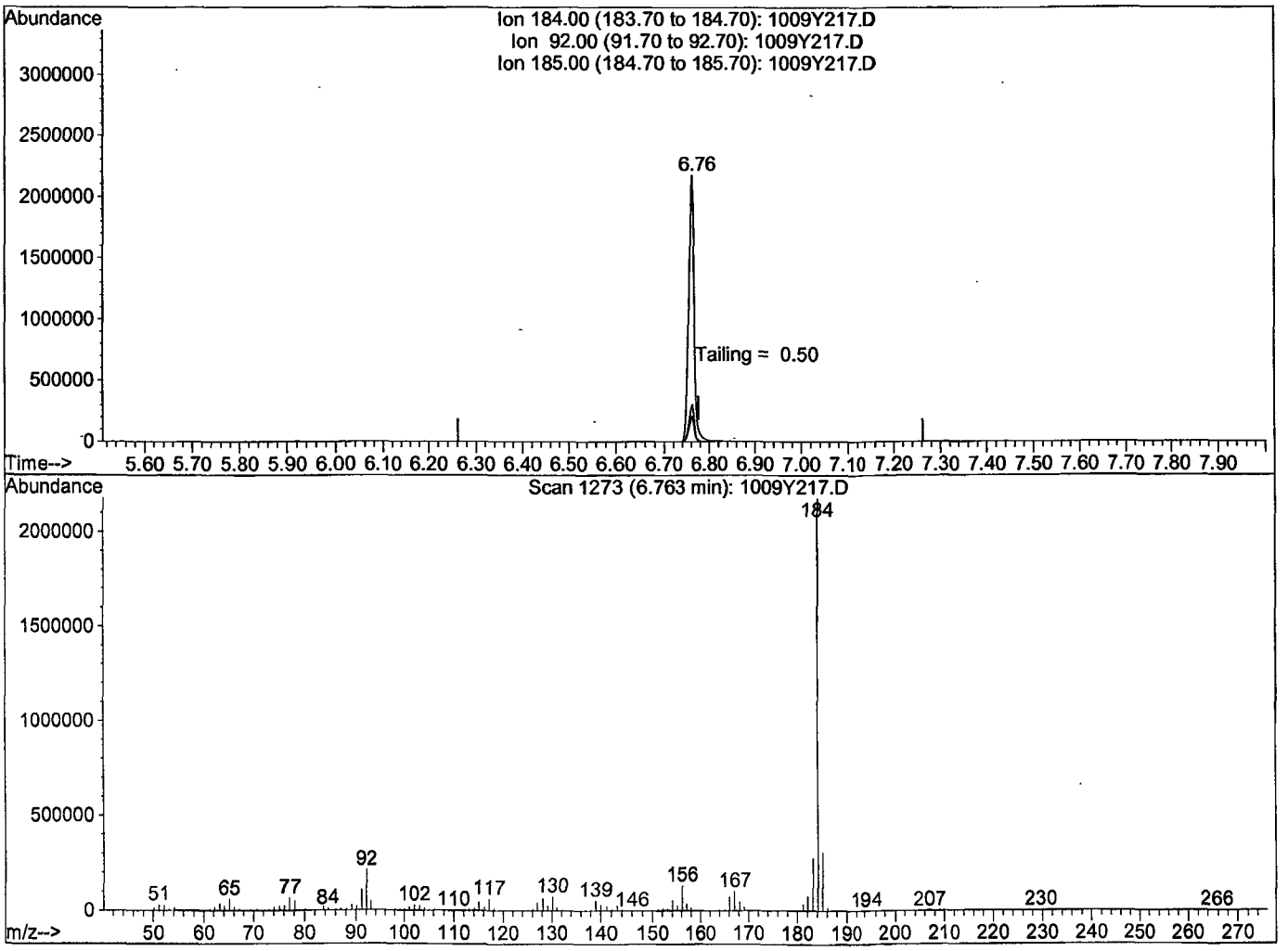
response 3020119

Ion	Exp%	Act%
266.00	100	100
264.00	61.70	62.71
268.00	63.80	63.48
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y217.D Vial: 17
Acq On : 23 Oct 20 12:41 Operator: MA
Sample : SVTUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 12:34 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 23 12:34:41 2020
Response via : Single Level Calibration



TIC: 1009Y217.D

(6) Benzidine

6.76min 0.0000

response 18909753

Ion	Exp%	Act%
184.00	100	100
92.00	9.70	9.19
185.00	14.10	13.82
0.00	0.00	0.00

Name of Final Standard 8270 Full Scan Standard Curve **Prep'd By (Initials)** CD

Prep Date 07/22/20

Exp Date 03/03/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	4 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	5 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	5 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	10 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	20 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	50 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	30 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	40 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	50 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			

Name of Final Standard 8270 Full Scan Second Source **Prep'd By (Initials)** CD

Prep Date 07/22/20

Exp Date 07/22/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	07/20/20	07/20/21	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			

Name of Final Standard	8270 Stock	Prep'd By (Initials)	CD
Prep Date	07/20/20		
Exp Date	07/20/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	041720-50312	07/20/21	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	042820-50317	07/20/21	1.0 mL	"	"	200 ug/mL
10004	Absolute	10004	2000	103119-50322	07/20/21	1.0 mL	"	"	200 ug/mL
10005	Absolute	10005	2000	031618-50362	07/20/21	1.0 mL	"	"	200 ug/mL
10006	Absolute	10006	2000	050420-50327	07/20/21	1.0 mL	"	"	200 ug/mL
10007	Absolute	10007	2000	060118-50332	07/20/21	1.0 mL	"	"	200 ug/mL
10018	Absolute	10018	2000	022620-50337	07/20/21	1.0 mL	"	"	200 ug/mL
70023	Absolute	70023	1000	112119-50342	07/20/21	1.0 mL	"	"	100 ug/mL
82705	Absolute	82705	2000	050620-50352	07/20/21	1.0 mL	"	"	200 ug/mL
94552	Absolute	94552	various	032520-50356	07/20/21	1.0 mL	"	"	various

Name of Final Standard	8270 2nd Source Stock	Prep'd By (Initials)	CD
Prep Date	07/20/20		
Exp Date	01/17/21		

Initial Standard Information						Final Standard Information			
Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39204	07/20/21	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	041619-50074	07/20/21	1.0 mL	"	"	200 ug/mL
10004	Absolute	10004	2000	071618-50210	07/20/21	1.0 mL	"	"	200 ug/mL
10005	Absolute	10005	2000	011620-49804	07/20/21	1.0 mL	"	"	200 ug/mL
10006	Absolute	10006	2000	011718-39209	1/17/21	1.0 mL	"	"	200 ug/mL
10007	Absolute	10007	2000	011620-49809	07/20/21	1.0 mL	"	"	200 ug/mL
10018	Absolute	10018	2000	091919-49568	07/20/21	1.0 mL	"	"	200 ug/mL
70023	Absolute	70023	1000	051618-39216	07/20/21	1.0 mL	"	"	100 ug/mL
82705	Absolute	82705	2000	081418-50071	07/20/21	1.0 mL	"	"	200 ug/mL
94552	Absolute	94552	various	053119-50061	07/20/21	1.0 mL	"	"	various

Name of Final Standard	8270 Working Surrogate Stock	Prep'd By (initials)	JP
Prep Date	03/03/20		
Exp Date	03/03/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Surrogate Stock	APPL	8270 Surrogate Stock	2000:1000 ug/mL	03/03/20	03/03/21	1.5 mL	7.5 mL	MC DW717 6 mL	400:200 ug/mL

8270 Internal Standard Ampules

Name of Final Standard	(4)
Prep Date	05/29/20
Exp Date	12/31/25

Prep'd By (Initials) MA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile Internal Standard	Restek	31206	2000 ug/mL	AO157142-49996to49999	12/31/25	3 mL	3 mL	NA	2000ug/mL

Name of Final Standard	8270 Full Scan Spike	Prep'd By (Initials)	CD
Prep Date	06/19/20		
Exp Date	09/06/20		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	(or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	051018-40533, 40534	05/10/21	2.0 mL	80 mL	Methanol Lot# 235140	50 ug/mL
10002	Absolute	10002	2000	090919-49813 042820-50313	09/09/22 04/28/23	2.0 mL	"	"	50 ug/mL
10004	Absolute	10004	2000	051018-39197, 39198	05/10/21	2.0 mL	"	"	50 ug/mL
10005	Absolute	10005	2000	032018-49803 031618-50358	03/20/23 3/16/23	2.0 mL	"	"	50 ug/mL
10006	Absolute	10006	2000	011718-39209, 39210	01/17/21	2.0 mL	"	"	50 ug/mL
10007	Absolute	10007	2000	080118-49808 060118-50328	08/01/21 06/01/23	2.0 mL	"	"	50 ug/mL
10018	Absolute	10018	2000	030216-38196, 98197	03/02/21	2.0 mL	"	"	50 ug/mL
70023	Absolute	70023	1000	112119-50338, 49825	11/21/24	2.0 mL	"	"	25 ug/mL
82705	Absolute	82705	2000	090617-40540 081418-50069	09/06/20 08/14/21	2.0 mL	"	"	50 ug/mL
94552	Absolute	94552	various	032520-50357, 50057	03/25/22	2.0 mL	"	"	various

Name of Final Standard	**8270 Surrogate**	**Prep'd By (Initials)**	**CD**
Prep Date	**05/11/20**		
Exp Date	**05/11/21**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquit from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep.Date)	Final Standard Conc.(range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0158618-50005,50007	03/31/28	20mL	1000 mL	MeOH:Acetone 2:1	200 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0158684-50001,50002,50003,500011	02/28/26	20mL			100 ug/mL

Name of Final Standard	8270 Surrogate	Prep'd By (Initials)	MA
Prep Date	10/06/20		
Exp Date	10/06/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0158618-50006, A0152714-49436	09/30/27	20 mL	200 mL	Acetone 246130/ MC59353,1:1	1000 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0158684-50244,5024550248,50004	02/28/26	20 mL			500 ug/mL

Use 0.2ml in extraction.

Name of Final Standard	8270 Spike	Prep'd By (Initials)	MA
Prep Date	10/06/20		
Exp Date	10/06/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	041720-50309,50311	04/17/23	2.0 mL	80 mL	Acetone Lot# 0246130	50 ug/mL
10002	Absolute	10002	2000	042820-50646,50647	04/28/23	2.0 mL			50 ug/mL
10004	Absolute	10004	2000	103119-50319,50321	10/31/24	2.0 mL			50 ug/mL
10005	Absolute	10005	2000	011620-50671,50672	01/16/25	2.0 mL			50 ug/mL
10006	Absolute	10006	2000	050420-50324,50325	05/04/23	2.0 mL			50 ug/mL
10007	Absolute	10007	2000	060118-50066,50067	06/01/23	2.0 mL			50 ug/mL
10018	Absolute	10018	2000	022620-50334,50687	02/26/25	2.0 mL			50 ug/mL
70023	Absolute	70023	1000	112119-50691,50692	11/21/24	2.0 mL			25 ug/mL
82705	Absolute	82705	2000	050620-50349,50350	05/06/23	2.0 mL			50 ug/mL
94552	Absolute	94552	various	032520-50711,50712	03/25/22	2.0 mL			various

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	201021A	Extraction Method	LIQ003	Units	mL

Spiked ID 1	8270T Spike 10/6/20 ex 10/6/21		Surrogate ID 1	8270 Surrogate 10/6/20 ex 10/6/21	
Spiked ID 2	Sim Spike 9/11/20 ex 9/11/21		Surrogate ID 2	SIM Surrogate 8/11/20 ex 8/11/21	
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/21/20 12:00	
Spiked ID 8			Ext. End Time:	10/23/20 10:35	
			GC Requires Extract By:		

pH1	2	10/21/20 12:10	Water Bath Temp 1 °C	EWB5 75/74.1 °
pH2	14	10/22/20 11:05	Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: **Date** 10/21/20 12:00:00 PM **Witnessed By:** 10/21/20 12:00 **Date** 10/23/20 1:59:16 PM

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201021A Blk				0.2,0.05	1,2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
2	201021A LCS-1		1	1	0.2	1	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
3	201021A LCS-2		0.125	2	0.050	2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
4	201021A LCSD-1		1	1	0.2	1	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
5	201021A LCSD-2		0.125	2	0.050	2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
6	BA20268	BA20268W15			0.2,0.05	1,2	800	1	2/1	10/21/20 12:00	93765
						equip	EWB5				
7	BA20486	BA20486W13			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93803
						equip	EWB5				
8	BA20539 MS-1	BA20539W28	1	1	0.2	1	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
9	BA20539 MSD-1	BA20539W27	1	1	0.2	1	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
10	BA20539 MS-2	BA20539W26	0.125	2	0.05	2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
11	BA20539 MSD-2	BA20539W24	0.125	2	0.05	2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
12	BA20539	BA20539W34			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
13	BA20541	BA20541W11			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
14	BA20542	BA20542W13			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
15	BA20544	BA20544W15			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				

Solvent and Lot#	
PH Strips	.HC904495
Dichloromethane (DCM)	.60127
1+1 H2SO4	.231834
10N NaOH	.10/22/20
Filter Paper	.400178
Na2SO4	.2019070279

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	MA
Date	10/26/20
Time	12:00
Refrigerator	GC_C

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified	10/26/20 12:41:37 PM

Reviewed By: MA **Date** 10/26/20

Injection Log

Directory: M:\YODA\DATA\Y201009\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	1009Y002.D	1	SV TUNE 10/02/20		9 Oct 20 10:55
3	1009Y003.D	1	4ug/mL 8270 7/22/20		9 Oct 20 11:14
4	1009Y004.D	1	5ug/mL 8270 7/22/20		9 Oct 20 11:40
5	1009Y005.D	1	10ug/mL 8270 7/22/20		9 Oct 20 12:05
6	1009Y006.D	1	20ug/mL 8270 7/22/20		9 Oct 20 12:31
7	1009Y007.D	1	40ug/mL 8270 7/22/20		9 Oct 20 12:56
8	1009Y008.D	1	50ug/mL 8270 7/22/20		9 Oct 20 13:22
9	1009Y009.D	1	60ug/mL 8270 7/22/20		9 Oct 20 13:48
10	1009Y010.D	1	80ug/mL 8270 7/22/20		9 Oct 20 14:13
11	1009Y011.D	1	100ug/mL 8270 7/22/20		9 Oct 20 14:38
12	1009Y012.D	1	SS 50ug/mL 8270 7/22/20		9 Oct 20 15:04
17	1009Y217.D	1	SVTUNE 10/02/20		23 Oct 20 12:41
18	1009Y218.D	1	50ug/mL 8270 7/22/20 (6)		23 Oct 20 12:56
19	1009Y219.D	1.25	201021A BLK 1/800		23 Oct 20 13:21
20	1009Y220.D	1.25	201021A LCS-1 1/800		23 Oct 20 13:47
21	1009Y221.D	1.25	201021A LCSD-1 1/800		23 Oct 20 14:13
22	1009Y222.D	1.25	BA20268W15 1/800		23 Oct 20 14:38
36	1009Y236.D	1	50ug/mL 8270 8/13/20 (2)		23 Oct 20 20:35

ORGANICS

Calibration Data

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/16/20
Matrix: Instrument: Linus
Initials: HAL

		Compound	1016L003.D 0.1	1016L004.D 0.2	1016L005.D 0.5	1016L006.D 1	1016L007.D 5	1016L008.D 10	1016L009.D 50	1016L010.D 100			Avg	%RSD	Type	r^2	Q	MRF
1	I	Napthalene-D8(IS)																
2	TM	Naphthalene	1.072	1.011	0.9676	1.022	0.9167	0.9139	0.9182	0.8593			0.96	7.4	TM			0.700
3	S	2-Methylnaphthalene-D10 (2M	1.176	1.100	1.058	1.081	1.179	1.100	1.103	1.115			1.1	3.9	S			
4	TM	2-Methylnaphthalene	0.7140	0.6668	0.6549	0.6735	0.6684	0.6295	0.6063	0.5873			0.65	6.2	TM			0.400
5	TM	1-Methylnaphthalene	0.7055	0.6769	0.6442	0.6665	0.6278	0.6160	0.6081	0.5750			0.64	6.6	TM			
6	I	Acenaphthene-D10(IS)																
7	TM	Acenaphthylene	4.020	3.698	3.609	3.849	3.853	3.617	3.693	3.090			3.7	7.5	TM			0.900
8	*TM	Acenaphthene	1.255	1.178	1.070	1.129	1.081	1.066	1.067	0.8941			1.1	9.6	*TM			0.900
9	TM	Fluorene	1.425	1.326	1.361	1.398	1.361	1.378	1.359	1.238			1.4	4.1	TM			0.900
10	I	Phenanthrene-D10(IS)																
11	TM	Phenanthrene	1.106	1.072	1.058	1.094	1.014	1.075	0.8950	0.8282			1.0	10.0	TM			0.700
12	TM	Anthracene	1.004	0.9774	0.9456	0.9873	0.9650	0.9772	0.8354	0.7568			0.93	9.4	TM			0.700
13	S	Fluoranthene-D10 (FRT)	1.325	1.172	1.200	1.205	1.196	1.284	1.270	1.255			1.2	4.3	S			
14	*TM	Fluoranthene	1.487	1.413	1.446	1.478	1.433	1.459	1.208	1.113			1.4	10	*TM			0.600
15	I	Chrysene-D12(IS)																
16	TM	Pyrene	1.113	1.074	1.065	1.102	1.058	1.049	0.9360	0.9508			1.0	6.3	TM			0.600
17	TM	Benz (a) anthracene	1.122	1.058	1.018	1.026	1.036	1.020	0.9993	0.9390			1.0	5.0	TM			0.800
18	TM	Chrysene	1.164	1.114	1.105	1.100	1.015	1.027	0.9314	0.8998			1.0	8.9	TM			0.700
19	TM	Indeno (1,2,3-cd) pyrene	1.282	1.197	1.190	1.247	1.262	1.263	1.262	1.253			1.2	2.7	TM			0.500
20	I	Perylene-D12(IS)																
21	TM	Benzo (b) fluoranthene	0.9987	0.9431	0.8304	0.8853	0.9907	1.093	1.028	0.9179			0.96	8.7	TM			0.700
22	TM	Benzo (k) fluoranthene	1.083	1.006	1.104	1.167	1.140	1.122	0.9848	0.9491			1.1	7.4	TM			0.700
23	*TM	Benzo (a) pyrene	0.8612	0.7892	0.8030	0.9158	0.9626	0.9531	0.9222	0.8779			0.89	7.3	*TM			0.700
24	TM	Dibenz (a,h) anthracene	0.9238	0.8974	0.9091	0.9540	1.001	1.033	0.9122	1.001			0.95	5.4	TM			0.400
25	TM	Benzo (g,h,i) perylene	1.019	0.9534	0.9591	0.9979	1.017	1.046	0.9207	0.9822			0.99	4.2	TM			0.500
26																		
27																		
28																		
29																		
30																		
31																		
32																		
33																		
34																		
35																		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L003.D Vial: 3
Acq On : 16 Oct 20 10:37 Operator: MA
Sample : 0.1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	44084	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	24595	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	48782	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.12	240	67228	2.50000 ppb		-0.01
20) Perylene-D12(IS)	13.56	264	75125	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	1037	0.05495 ppb		0.00
Spiked Amount 5.000			Recovery =	1.100%		
13) Fluoranthene-D10 (FRT)	9.38	212	1293	0.05685 ppb		0.00
Spiked Amount 5.000			Recovery =	1.140%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	1890	0.11284 ppb		99
4) 2-Methylnaphthalene	5.08	142	1259	0.11717 ppb		99
5) 1-Methylnaphthalene	5.19	142	1244	0.11294 ppb		100
7) Acenaphthylene	6.11	152	3955	0.11795 ppb		99
8) Acenaphthene	6.31	154	1235	0.11635 ppb		99
9) Fluorene	6.90	166	1402	0.11107 ppb		99
11) Phenanthrene	8.02	178	2158	0.11070 ppb		99
12) Anthracene	8.08	178	1960	0.11301 ppb		99
14) Fluoranthene	9.40	202	2902	0.11366 ppb		98
16) Pyrene	9.65	202	2993	0.11038 ppb	#	82
17) Benz (a) anthracene	11.11	228	3017	0.11408 ppb		100
18) Chrysene	11.16	228	3131	0.11082 ppb		98
19) Indeno (1,2,3-cd) pyrene	15.03	276	3448	0.10423 ppb	#	93
21) Benzo (b) fluoranthene	12.92	252	3001	0.11051 ppb	#	98
22) Benzo (k) fluoranthene	12.98	252	3253	0.09995 ppb		98
23) Benzo (a) pyrene	13.46	252	2588	0.10136 ppb		98
24) Dibenz (a,h) anthracene	15.07	278	2776	0.09615 ppb	#	96
25) Benzo (g,h,i) perylene	15.40	276	3061	0.10254 ppb		98

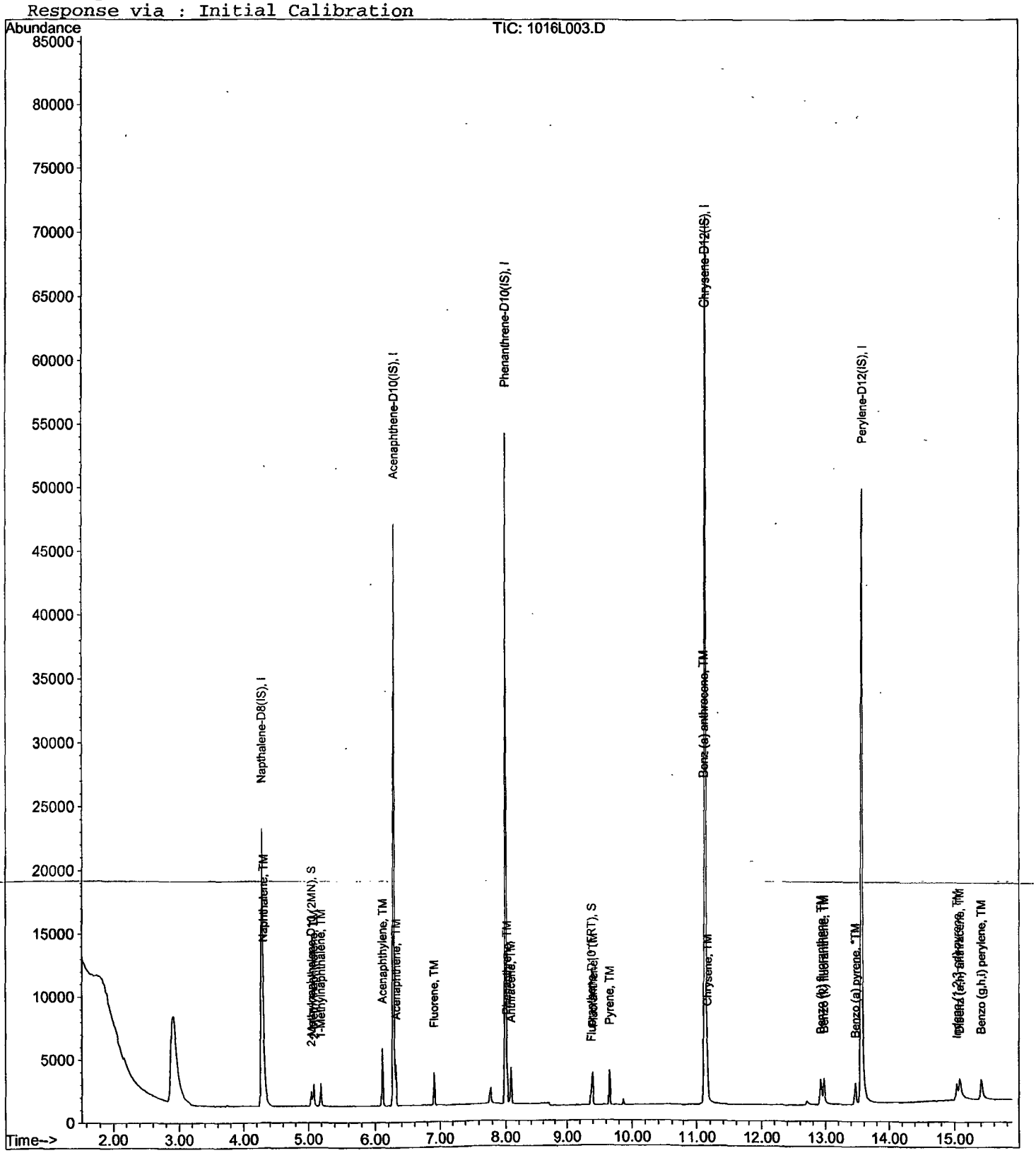
(#) = qualifier out of range (m) = manual integration
1016L003.D L1016.M Fri Oct 16 13:54:03 2020

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L003.D Vial: 3
Acq On : 16 Oct 20 10:37 Operator: MA
Sample : 0.1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L004.D Vial: 4
Acq On : 16 Oct 20 10:59 Operator: MA
Sample : 0.2 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	58321	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	32526	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	62347	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.12	240	83952	2.50000 ppb		-0.01
20) Perylene-D12(IS)	13.56	264	93534	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	2566	0.10278 ppb		0.00
Spiked Amount 5.000			Recovery =	2.060%		
13) Fluoranthene-D10 (FRT)	9.38	212	2923	0.10055 ppb		0.00
Spiked Amount 5.000			Recovery =	2.020%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	4715	0.21277 ppb		99
4) 2-Methylnaphthalene	5.08	142	3111	0.21884 ppb		99
5) 1-Methylnaphthalene	5.19	142	3158	0.21671 ppb		100
7) Acenaphthylene	6.11	152	9622	0.21698 ppb		100
8) Acenaphthene	6.31	154	3066	0.21841 ppb		99
9) Fluorene	6.90	166	3451	0.20674 ppb		96
11) Phenanthrene	8.01	178	5348	0.21466 ppb		100
12) Anthracene	8.08	178	4875	0.21993 ppb		99
14) Fluoranthene	9.40	202	7047	0.21596 ppb		98
16) Pyrene	9.66	202	7210	0.21292 ppb		99
17) Benz (a) anthracene	11.11	228	7107	0.21520 ppb		99
18) Chrysene	11.16	228	7480	0.21202 ppb		99
19) Indeno (1,2,3-cd) pyrene	15.03	276	8042	0.19468 ppb	#	90
21) Benzo (b) fluoranthene	12.92	252	7057	0.20872 ppb		99
22) Benzo (k) fluoranthene	12.98	252	7525	0.18570 ppb		98
23) Benzo (a) pyrene	13.46	252	5905	0.18575 ppb		98
24) Dibenz (a,h) anthracene	15.07	278	6715	0.18680 ppb	#	97
25) Benzo (g,h,i) perylene	15.40	276	7134	0.19194 ppb		96

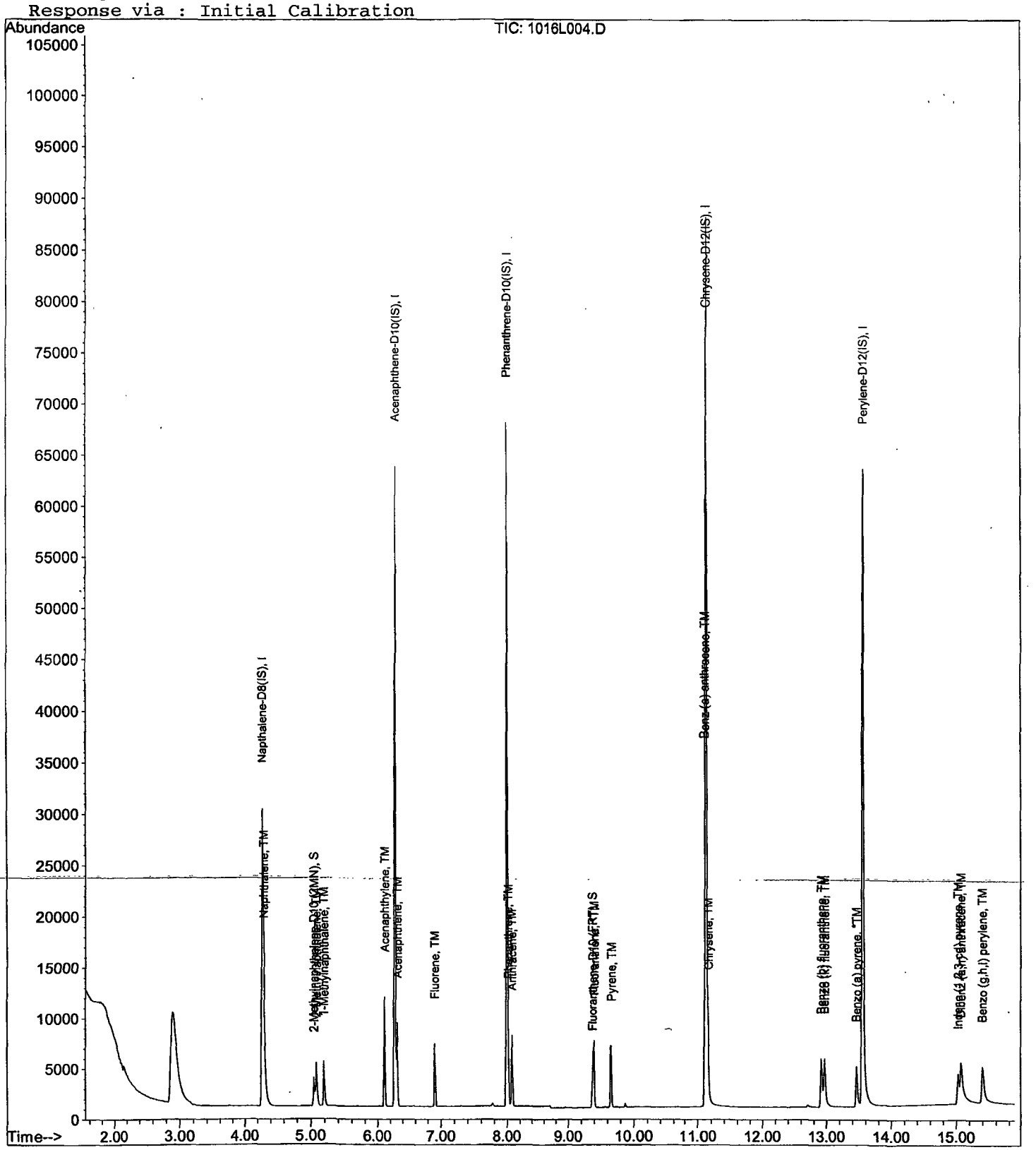
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L004.D Vial: 4
Acq On : 16 Oct 20 10:59 Operator: MA
Sample : 0.2 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L005.D Vial: 5
Acq On : 16 Oct 20 11:21 Operator: MA
Sample : 0.5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	44248	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	24849	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	46124	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.12	240	63984	2.50000	ppb		-0.01
20) Perylene-D12(IS)	13.55	264	70650	2.50000	ppb		-0.01
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	4681	0.24712	ppb		0.00
Spiked Amount 5.000			Recovery =	4.940%			
13) Fluoranthene-D10 (FRT)	9.38	212	5535	0.25737	ppb		0.00
Spiked Amount 5.000			Recovery =	5.140%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	8563	0.50933	ppb		99
4) 2-Methylnaphthalene	5.08	142	5796	0.53739	ppb		100
5) 1-Methylnaphthalene	5.19	142	5701	0.51565	ppb		98
7) Acenaphthylene	6.11	152	17937	0.52946	ppb		100
8) Acenaphthene	6.31	154	5316	0.49569	ppb		100
9) Fluorene	6.90	166	6766	0.53055	ppb		96
11) Phenanthrene	8.01	178	9757	0.52937	ppb		99
12) Anthracene	8.08	178	8723	0.53195	ppb		99
14) Fluoranthene	9.40	202	13338	0.55251	ppb		98
16) Pyrene	9.65	202	13623	0.52786	ppb	#	82
17) Benz (a) anthracene	11.11	228	13025	0.51748	ppb		99
18) Chrysene	11.15	228	14146	0.52610	ppb	#	95
19) Indeno (1,2,3-cd) pyrene	15.03	276	15224	0.48356	ppb		92
21) Benzo (b) fluoranthene	12.92	252	11733	0.45943	ppb		98
22) Benzo (k) fluoranthene	12.98	252	15599	0.50963	ppb		98
23) Benzo (a) pyrene	13.46	252	11347	0.47256	ppb		99
24) Dibenz (a,h) anthracene	15.07	278	12845	0.47308	ppb	#	97
25) Benzo (g,h,i) perylene	15.40	276	13552	0.48272	ppb		98

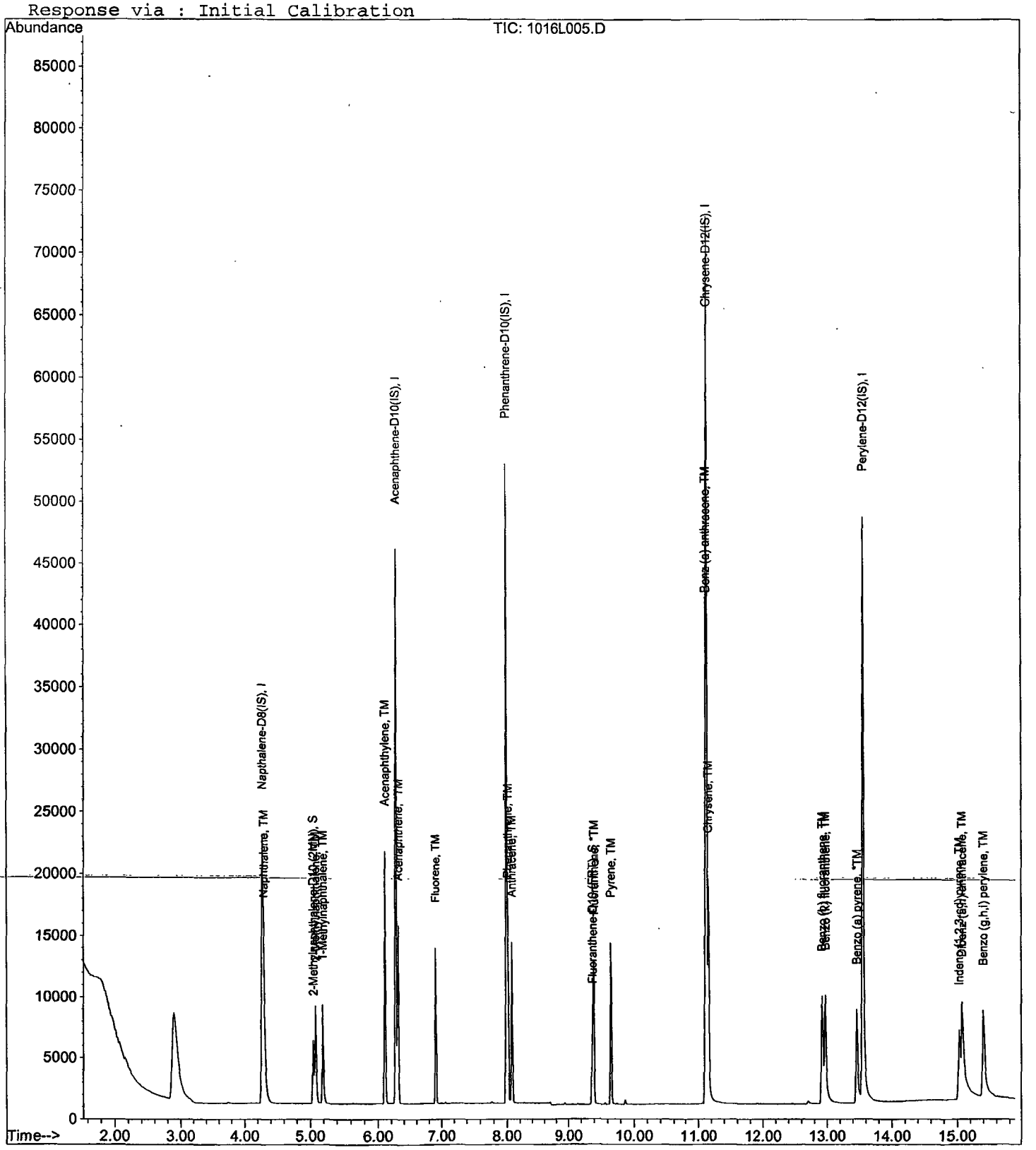
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L005.D Vial: 5
Acq On : 16 Oct 20 11:21 Operator: MA
Sample : 0.5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L006.D Vial: 6
Acq On : 16 Oct 20 11:43 Operator: MA
Sample : 1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	49012	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	26755	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	54274	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.12	240	71691	2.50000	ppb		-0.01
20) Perylene-D12(IS)	13.55	264	78644	2.50000	ppb		-0.01
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	10597	0.50507	ppb		0.00
Spiked Amount 5.000			Recovery = 10.100%				
13) Fluoranthene-D10 (FRT)	9.38	212	13081	0.51692	ppb		0.00
Spiked Amount 5.000			Recovery = 10.340%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	20041	1.07617	ppb		100
4) 2-Methylnaphthalene	5.08	142	13203	1.10516	ppb		99
5) 1-Methylnaphthalene	5.19	142	13067	1.06701	ppb		100
7) Acenaphthylene	6.11	152	41197	1.12942	ppb		100
8) Acenaphthene	6.31	154	12084	1.04651	ppb		98
9) Fluorene	6.90	166	14961	1.08959	ppb		95
11) Phenanthrene	8.01	178	23742	1.09469	ppb		100
12) Anthracene	8.08	178	21433	1.11077	ppb		99
14) Fluoranthene	9.40	202	32091	1.12971	ppb		98
16) Pyrene	9.65	202	31599	1.09276	ppb	#	84
17) Benz (a) anthracene	11.11	228	29434	1.04369	ppb		99
18) Chrysene	11.15	228	31530	1.04656	ppb	#	96
19) Indeno (1,2,3-cd) pyrene	15.03	276	35770	1.01403	ppb	#	93
21) Benzo (b) fluoranthene	12.92	252	27848	0.97960	ppb		98
22) Benzo (k) fluoranthene	12.98	252	36719	1.07769	ppb		98
23) Benzo (a) pyrene	13.46	252	28808	1.07779	ppb		98
24) Dibenz (a,h) anthracene	15.07	278	30010	0.99291	ppb	#	96
25) Benzo (g,h,i) perylene	15.40	276	31391	1.00449	ppb		98

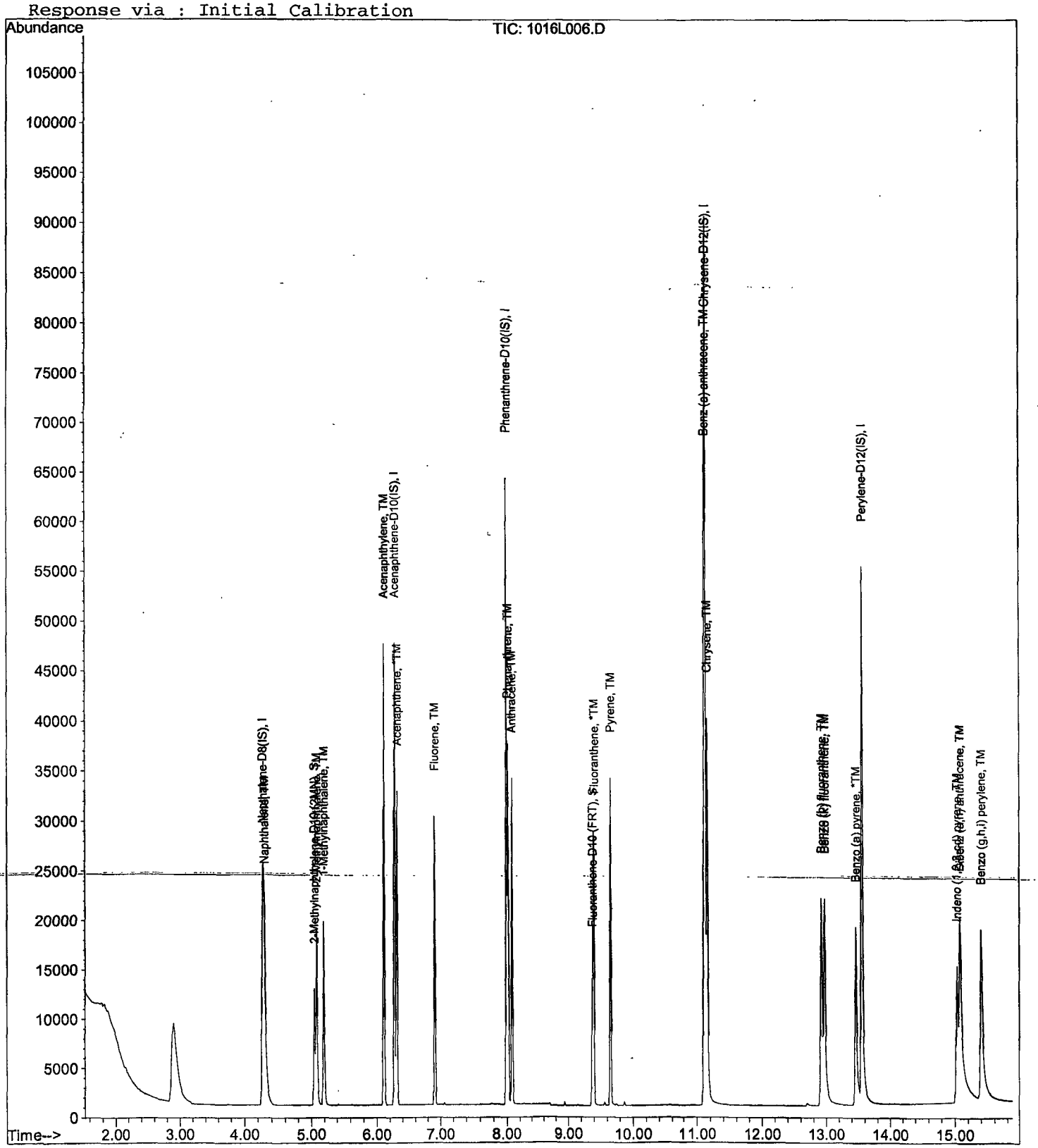
(#) = qualifier out of range (m) = manual integration
1016L006.D L1016.M Fri Oct 16 13:54:19 2020

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L006.D Vial: 6
Acq On : 16 Oct 20 11:43 Operator: MA
Sample : 1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L007.D Vial: 7
Acq On : 16 Oct 20 12:05 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	49866	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	26363	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	52853	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	72201	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	77115	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	58812	2.75507 ppb		0.00
Spiked Amount 5.000			Recovery	= 55.100%		
13) Fluoranthene-D10 (FRT)	9.38	212	63208	2.56494 ppb		0.00
Spiked Amount 5.000			Recovery	= 51.300%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	91420	4.82503 ppb		100
4) 2-Methylnaphthalene	5.08	142	66664	5.48457 ppb		100
5) 1-Methylnaphthalene	5.19	142	62616	5.02547 ppb		100
7) Acenaphthylene	6.11	152	203147	5.65209 ppb		100
8) Acenaphthene	6.31	154	57006	5.01028 ppb		100
9) Fluorene	6.90	166	71772	5.30476 ppb		100
11) Phenanthrene	8.01	178	107223	5.07675 ppb		100
12) Anthracene	8.08	178	102004	5.42852 ppb		100
14) Fluoranthene	9.40	202	151517	5.47730 ppb		100
16) Pyrene	9.66	202	152720	5.24406 ppb		100
17) Benz (a) anthracene	11.11	228	149635	5.26839 ppb		100
18) Chrysene	11.16	228	146496	4.82821 ppb		100
19) Indeno (1,2,3-cd) pyrene	15.04	276	182195	5.12848 ppb	#	100
21) Benzo (b) fluoranthene	12.93	252	152793	5.48134 ppb		100
22) Benzo (k) fluoranthene	12.98	252	175807	5.26218 ppb		100
23) Benzo (a) pyrene	13.46	252	148467	5.66469 ppb		100
24) Dibenz (a,h) anthracene	15.08	278	154350	5.20809 ppb		100
25) Benzo (g,h,i) perylene	15.41	276	156806	5.11716 ppb		100

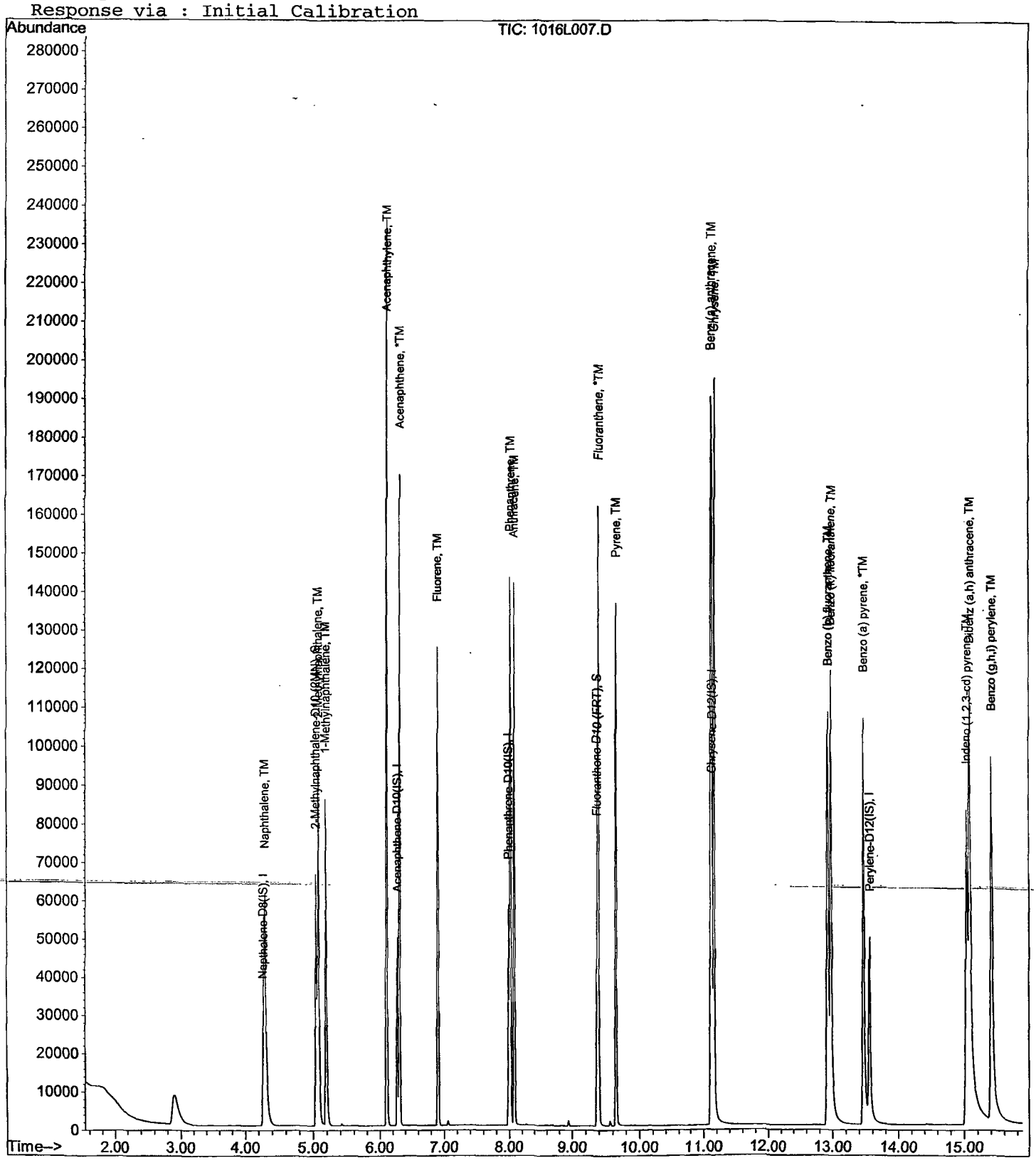
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L007.D Vial: 7
Acq On : 16 Oct 20 12:05 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L008.D Vial: 8
Acq On : 16 Oct 20 12:27 Operator: MA
Sample : 10 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	46239	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	24174	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	47454	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	66927	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	68921	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	101736	5.13969	ppb		0.00
Spiked Amount 5.000			Recovery = 102.800%				
13) Fluoranthene-D10 (FRT)	9.38	212	121907	5.50973	ppb		0.00
Spiked Amount 5.000			Recovery = 110.200%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	169029	9.62090	ppb		100
4) 2-Methylnaphthalene	5.08	142	116429	10.33020	ppb		100
5) 1-Methylnaphthalene	5.19	142	113925	9.86066	ppb		100
7) Acenaphthylene	6.11	152	349784	10.61317	ppb		100
8) Acenaphthene	6.31	154	103108	9.88280	ppb		100
9) Fluorene	6.90	166	133281	10.74300	ppb		96
11) Phenanthrene	8.03	178	203962	10.75583	ppb		97
12) Anthracene	8.09	178	185489	10.99459	ppb		96
14) Fluoranthene	9.40	202	277003	11.15286	ppb		95
16) Pyrene	9.66	202	280854	10.40385	ppb		95
17) Benz (a) anthracene	11.12	228	272999	10.36925	ppb		97
18) Chrysene	11.16	228	274840	9.77196	ppb	#	97
19) Indeno (1,2,3-cd) pyrene	15.05	276	338064	10.26581	ppb	#	97
21) Benzo (b) fluoranthene	12.93	252	301266	12.09264	ppb	#	98
22) Benzo (k) fluoranthene	12.99	252	309244	10.35662	ppb		98
23) Benzo (a) pyrene	13.48	252	262761	11.21745	ppb		98
24) Dibenz (a,h) anthracene	15.10	278	284747	10.75025	ppb		99
25) Benzo (g,h,i) perylene	15.42	276	288237	10.52455	ppb		99

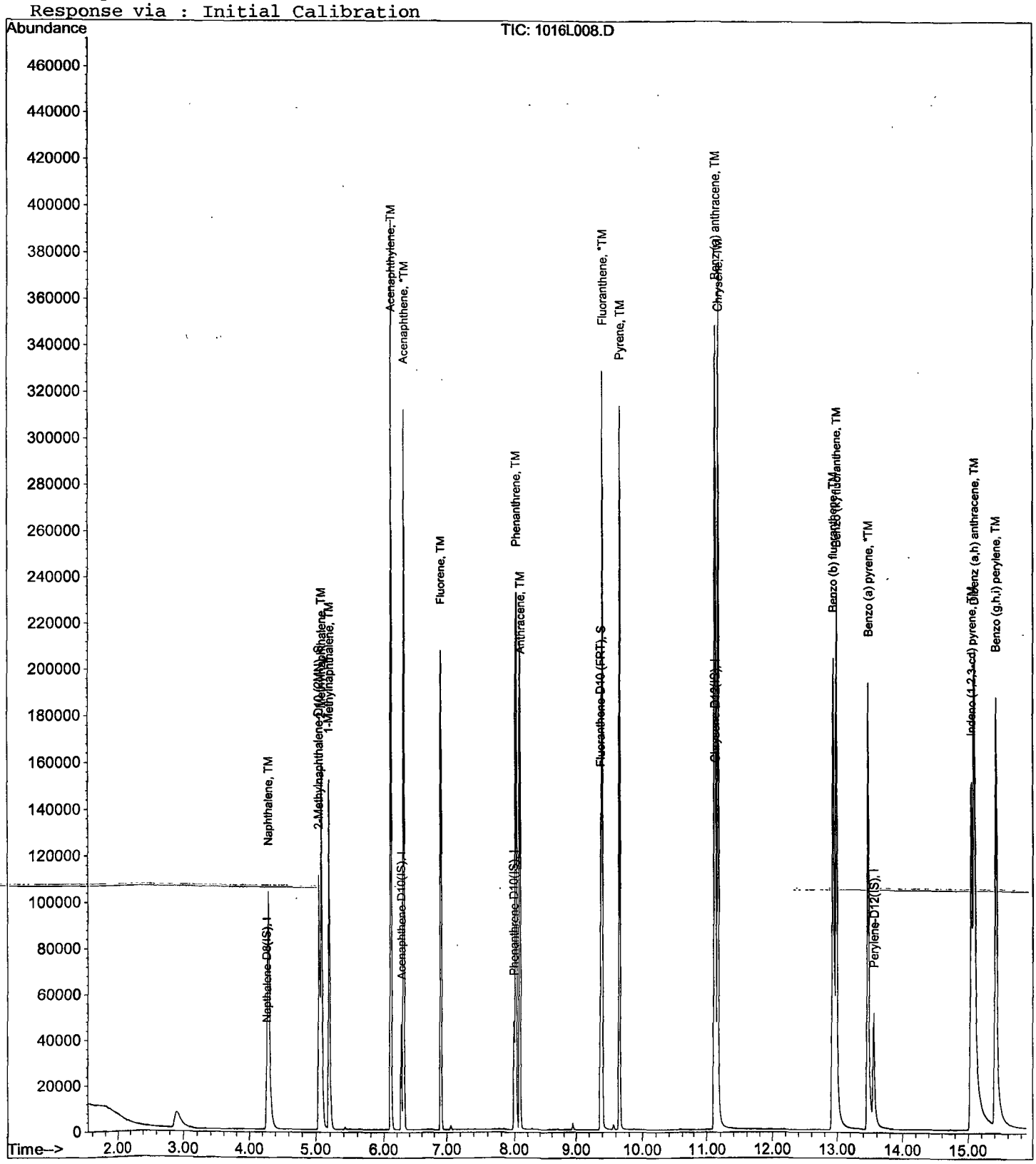
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L008.D Vial: 8
Acq On : 16 Oct 20 12:27 Operator: MA
Sample : 10 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L009.D Vial: 9
Acq On : 16 Oct 20 12:50 Operator: MA
Sample : 50 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:48 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:47:50 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	40530	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	20899	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	8.00	188	41652	2.50000 ppb		0.01
15) Chrysene-D12(IS)	11.14	240	56403	2.50000 ppb		0.01
20) Perylene-D12(IS)	13.57	264	65963	2.50000 ppb		0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	447024	25.76472 ppb		0.00
Spiked Amount 5.000			Recovery = 515.300%			
13) Fluoranthene-D10 (FRT)	9.39	212	528902	27.23414 ppb		0.01
Spiked Amount 5.000			Recovery = 544.680%			
Target Compounds						Qvalue
2) Naphthalene	4.30	128	744322	48.33340 ppb		99
4) 2-Methylnaphthalene	5.08	142	491506	49.75173 ppb		99
5) 1-Methylnaphthalene	5.20	142	492889	48.67075 ppb		94
7) Acenaphthylene	6.12	152	1543648	54.17718 ppb		98
8) Acenaphthene	6.31	154	445953	49.44242 ppb		95
9) Fluorene	6.92	166	568152	52.97182 ppb		90
11) Phenanthrene	8.03	178	745533	44.79178 ppb		98
12) Anthracene	8.09	178	695926	46.99599 ppb		98
14) Fluoranthene	9.41	202	1006088	46.15032 ppb	#	92
16) Pyrene	9.67	202	1055879	46.41163 ppb	#	93
17) Benz (a) anthracene	11.13	228	1127240	50.80447 ppb		98
18) Chrysene	11.18	228	1050714	44.32875 ppb		98
19) Indeno (1,2,3-cd) pyrene	15.07	276	1423510	51.29252 ppb	#	89
21) Benzo (b) fluoranthene	12.97	252	1356281	56.88160 ppb	#	97
22) Benzo (k) fluoranthene	13.02	252	1299182	45.46088 ppb		98
23) Benzo (a) pyrene	13.50	252	1216664	54.26940 ppb		98
24) Dibenz (a,h) anthracene	15.13	278	1203467	47.47280 ppb		96
25) Benzo (g,h,i) perylene	15.47	276	1214669	46.34075 ppb		96

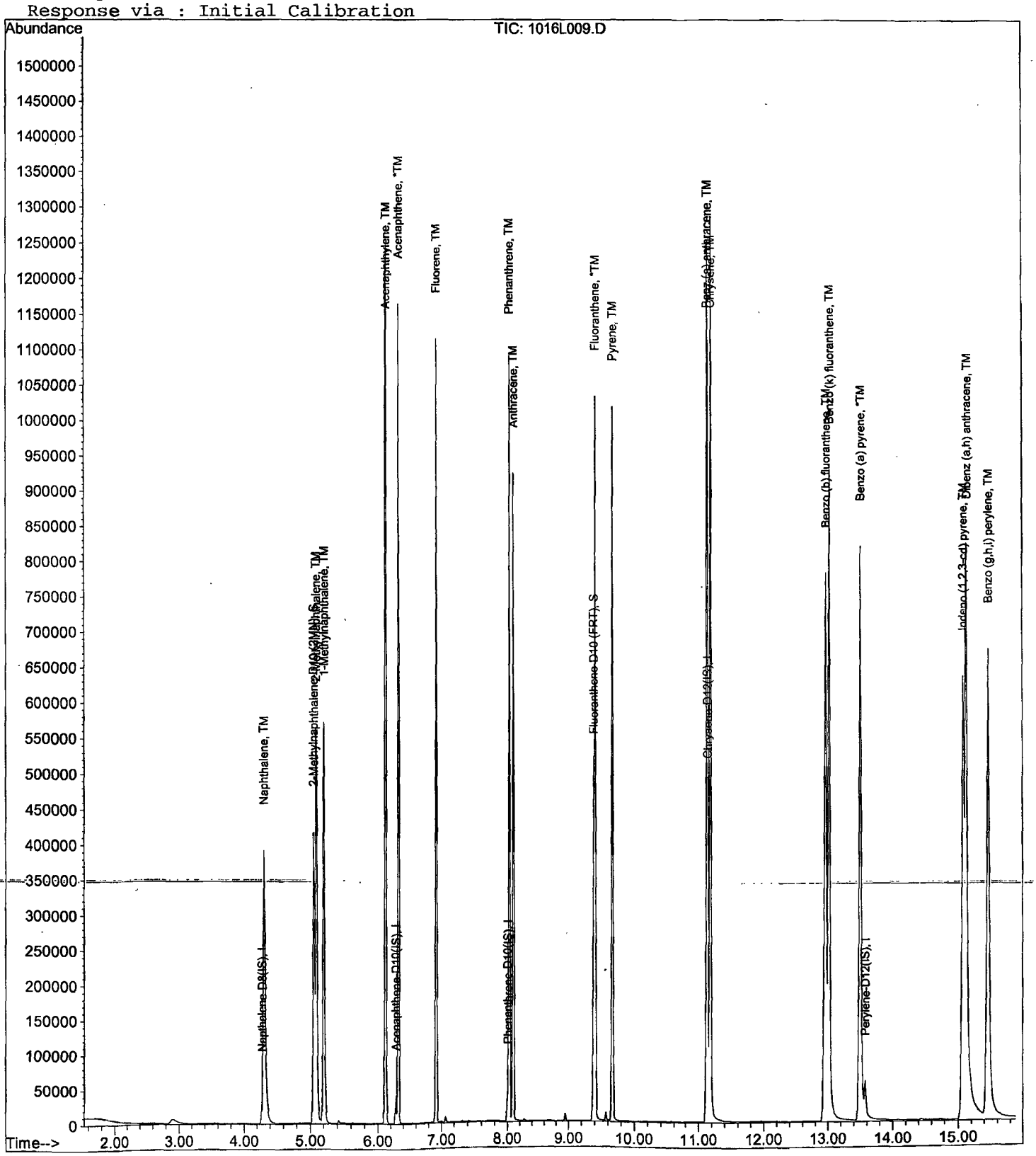
(#) = qualifier out of range (m) = manual integration
1016L009.D L1016.M Fri Oct 16 13:54:34 2020

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L009.D Vial: 9
Acq On : 16 Oct 20 12:50 Operator: MA
Sample : 50 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:48 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L010.D Vial: 10
Acq On : 16 Oct 20 13:12 Operator: MA
Sample : 100 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:47 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:47:50 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	39931	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	22446	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	8.00	188	44342	2.50000	ppb		0.01
15) Chrysene-D12(IS)	11.15	240	55121	2.50000	ppb		0.02
20) Perylene-D12(IS)	13.58	264	58243	2.50000	ppb		0.02
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	890571	52.09901	ppb		0.00
Spiked Amount 5.000			Recovery	= 1041.980%			
13) Fluoranthene-D10 (FRT)	9.39	212	1112969	53.83220	ppb		0.01
Spiked Amount 5.000			Recovery	= 1076.640%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	1372540	90.46444	ppb		98
4) 2-Methylnaphthalene	5.09	142	938117	96.38352	ppb		96
5) 1-Methylnaphthalene	5.20	142	918368	92.04539	ppb		95
7) Acenaphthylene	6.12	152	2774435	90.66282	ppb		99
8) Acenaphthene	6.33	154	802774	82.86868	ppb		97
9) Fluorene	6.93	166	1111179	96.46082	ppb		85
11) Phenanthrene	8.04	178	1468903	82.89821	ppb		97
12) Anthracene	8.10	178	1342303	85.14692	ppb		96
14) Fluoranthene	9.42	202	1974317	85.06995	ppb	#	90
16) Pyrene	9.68	202	2096374	94.29019	ppb	#	94
17) Benz (a) anthracene	11.14	228	2070440	95.48460	ppb		97
18) Chrysene	11.19	228	1983840	85.64316	ppb	#	95
19) Indeno (1,2,3-cd) pyrene	15.11	276	2762426	101.85194	ppb	#	87
21) Benzo (b) fluoranthene	12.98	252	2138419	101.57143	ppb		100
22) Benzo (k) fluoranthene	13.04	252	2211086	87.62543	ppb		100
23) Benzo (a) pyrene	13.52	252	2045239	103.32017	ppb		98
24) Dibenz (a,h) anthracene	15.15	278	2331210	104.14746	ppb	#	95
25) Benzo (g,h,i) perylene	15.50	276	2288345	98.87428	ppb		97

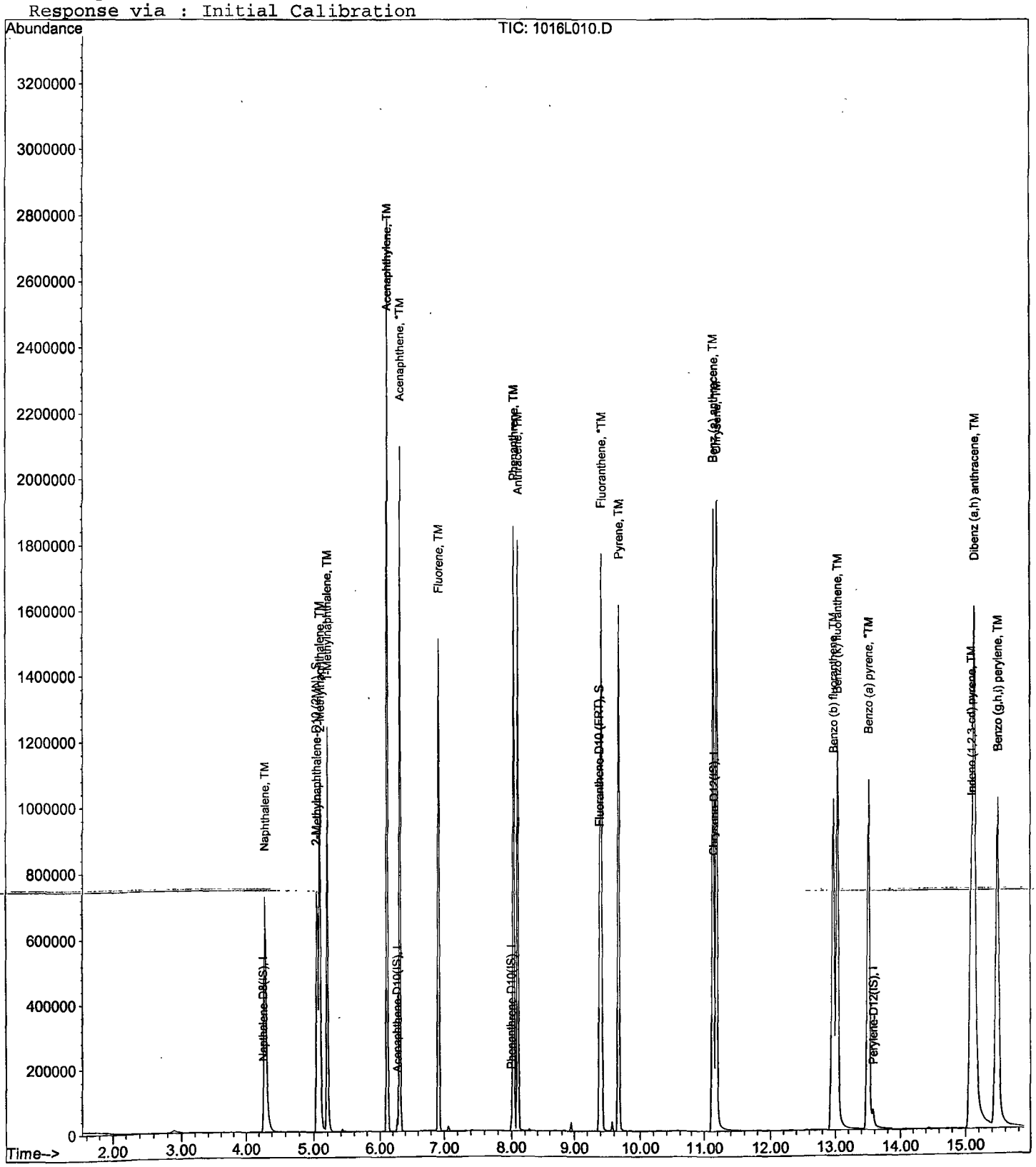
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L010.D Vial: 10
Acq On : 16 Oct 20 13:12 Operator: MA
Sample : 100 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:47 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/16/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L011.D

		Compound	MEAN	CCRF	%D		%Drift
1	TM	Naphthalene	0.9600	0.9132	4.9	TM	
2	TM	2-Methylnaphthalene	0.6501	0.6497	0.06	TM	
3	TM	1-Methylnaphthalene	0.6400	0.6197	3.2	TM	
4	TM	Acenaphthylene	3.679	3.702	0.64	TM	
5	*TM	Acenaphthene	1.093	1.076	1.5	*TM	
6	TM	Fluorene	1.356	1.354	0.13	TM	
7	TM	Phenanthrene	1.018	1.058	3.9	TM	
8	TM	Anthracene	0.9311	1.069	15	TM	
9	*TM	Fluoranthene	1.380	1.519	10	*TM	
10	TM	Pyrene	1.043	1.078	3.3	TM	
11	TM	Benz (a) anthracene	1.027	1.030	0.22	TM	
12	TM	Chrysene	1.044	1.015	2.8	TM	
13	TM	Indeno (1,2,3-cd) pyrene	1.244	1.350	8.5	TM	
14	TM	Benzo (b) fluoranthene	0.9609	0.9298	3.2	TM	
15	TM	Benzo (k) fluoranthene	1.069	1.178	10	TM	
16	*TM	Benzo (a) pyrene	0.8856	0.9841	11	*TM	
17	TM	Dibenz (a,h) anthracene	0.9538	1.040	9.1	TM	
18	TM	Benzo (g,h,i) perylene	0.9868	1.050	6.4	TM	
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			5.2		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L011.D Vial: 11
Acq On : 16 Oct 20 13:34 Operator: MA
Sample : SS SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:53 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	59322	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	30386	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	62233	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	91312	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	98148	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	0.00	152	0d	0.00000 ppb		
Spiked Amount 5.000			Recovery =	0.000%		
13) Fluoranthene-D10 (FRT)	0.00	212	0d	0.00000 ppb		
Spiked Amount 5.000			Recovery =	0.000%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	108342	4.75587 ppb		99
4) 2-Methylnaphthalene	5.08	142	77085	4.99708 ppb		99
5) 1-Methylnaphthalene	5.19	142	73520	4.84127 ppb		98
7) Acenaphthylene	6.11	152	225002	5.03212 ppb		99
8) Acenaphthene	6.31	154	65388	4.92375 ppb		96
9) Fluorene	6.92	166	82291	4.99334 ppb		87
11) Phenanthrene	8.03	178	131665	5.19729 ppb		98
12) Anthracene	8.09	178	133038	5.73959 ppb		97
14) Fluoranthene	9.40	202	189096	5.50570 ppb		95
16) Pyrene	9.66	202	196781	5.16391 ppb		95
17) Benz (a) anthracene	11.12	228	188027	5.01094 ppb		98
18) Chrysene	11.16	228	185421	4.86068 ppb	#	98
19) Indeno (1,2,3-cd) pyrene	15.04	276	246499	5.42292 ppb	#	89
21) Benzo (b) fluoranthene	12.93	252	182515	4.83839 ppb		98
22) Benzo (k) fluoranthene	12.99	252	231163	5.50621 ppb		98
23) Benzo (a) pyrene	13.48	252	193170	5.55576 ppb		98
24) Dibenz (a,h) anthracene	15.10	278	204218	5.45350 ppb		99
25) Benzo (g,h,i) perylene	15.42	276	206170	5.32189 ppb		97

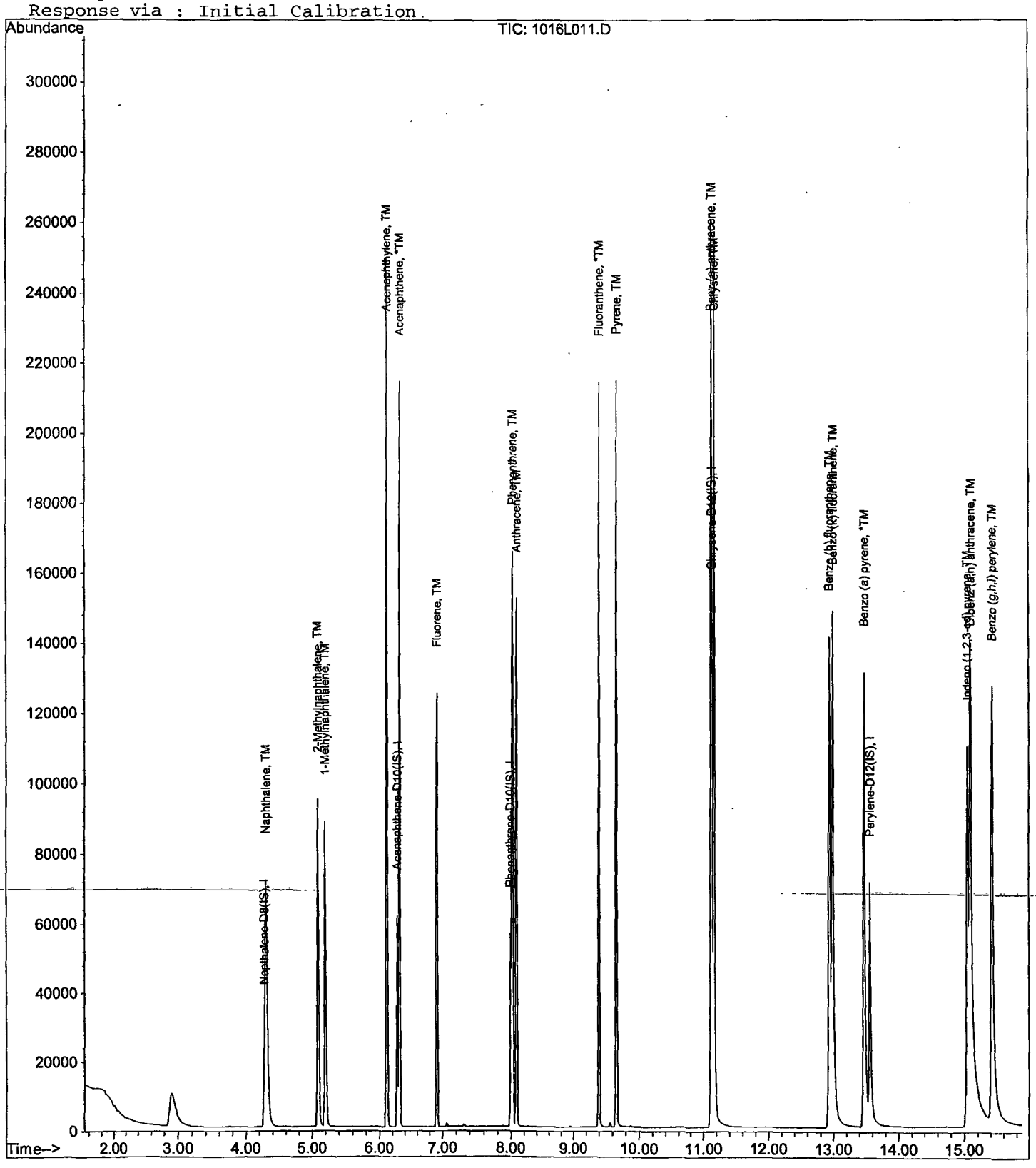
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L011.D Vial: 11
Acq On : 16 Oct 20 13:34 Operator: MA
Sample : SS SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:53 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/23/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L117.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	0.9600	0.9139	4.8	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.114	1.188	6.6	S	
4	TM	2-Methylnaphthalene	0.6501	0.6361	2.2	TM	
5	TM	1-Methylnaphthalene	0.6400	0.6290	1.7	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	3.679	3.561	3.2	TM	
8	*TM	Acenaphthene	1.093	1.070	2.1	*TM	
9	TM	Fluorene	1.356	1.359	0.23	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.018	1.027	0.93	TM	
12	TM	Anthracene	0.9311	0.9592	3.0	TM	
13	S	Fluoranthene-D10 (FRT)	1.238	1.242	0.26	S	
14	*TM	Fluoranthene	1.380	1.433	3.9	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.043	1.042	0.16	TM	
17	TM	Benz (a) anthracene	1.027	0.9719	5.4	TM	
18	TM	Chrysene	1.044	1.046	0.11	TM	
19	TM	Indeno (1,2,3-cd) pyrene	1.244	1.229	1.3	TM	
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	0.9609	0.9347	2.7	TM	
22	TM	Benzo (k) fluoranthene	1.069	1.105	3.4	TM	
23	*TM	Benzo (a) pyrene	0.8856	0.9004	1.7	*TM	
24	TM	Dibenz (a,h) anthracene	0.9538	0.9519	0.20	TM	
25	TM	Benzo (g,h,i) perylene	0.9868	0.9664	2.1	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			2.3		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L117.D Vial: 17
Acq On : 23 Oct 20 11:22 Operator: MA
Sample : 5 SIM 08/21/20 (1) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 23 11:44 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	46756	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	27674	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	50490	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	70872	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	76980	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	55550	2.66605	ppb		0.00
Spiked Amount 5.000			Recovery = 53.320%				
13) Fluoranthene-D10 (FRT)	9.38	212	62695	2.50661	ppb		0.00
Spiked Amount 5.000			Recovery = 50.140%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	85459	4.75959	ppb		100
4) 2-Methylnaphthalene	5.08	142	59481	4.89218	ppb		99
5) 1-Methylnaphthalene	5.19	142	58818	4.91408	ppb		100
7) Acenaphthylene	6.11	152	197115	4.84046	ppb		100
8) Acenaphthene	6.31	154	59231	4.89721	ppb		99
9) Fluorene	6.90	166	75217	5.01137	ppb		93
11) Phenanthrene	8.03	178	103722	5.04653	ppb		97
12) Anthracene	8.09	178	96860	5.15069	ppb		96
14) Fluoranthene	9.40	202	144740	5.19438	ppb		96
16) Pyrene	9.66	202	147647	4.99199	ppb		97
17) Benz (a) anthracene	11.12	228	137759	4.73012	ppb		97
18) Chrysene	11.16	228	148197	5.00531	ppb	#	98
19) Indeno (1,2,3-cd) pyrene	15.04	276	174180	4.93707	ppb	#	85
21) Benzo (b) fluoranthene	12.93	252	143911	4.86407	ppb	#	98
22) Benzo (k) fluoranthene	12.99	252	170172	5.16804	ppb		98
23) Benzo (a) pyrene	13.48	252	138621	5.08319	ppb		98
24) Dibenz (a,h) anthracene	15.10	278	146560	4.98999	ppb		99
25) Benzo (g,h,i) perylene	15.42	276	148782	4.89659	ppb		98

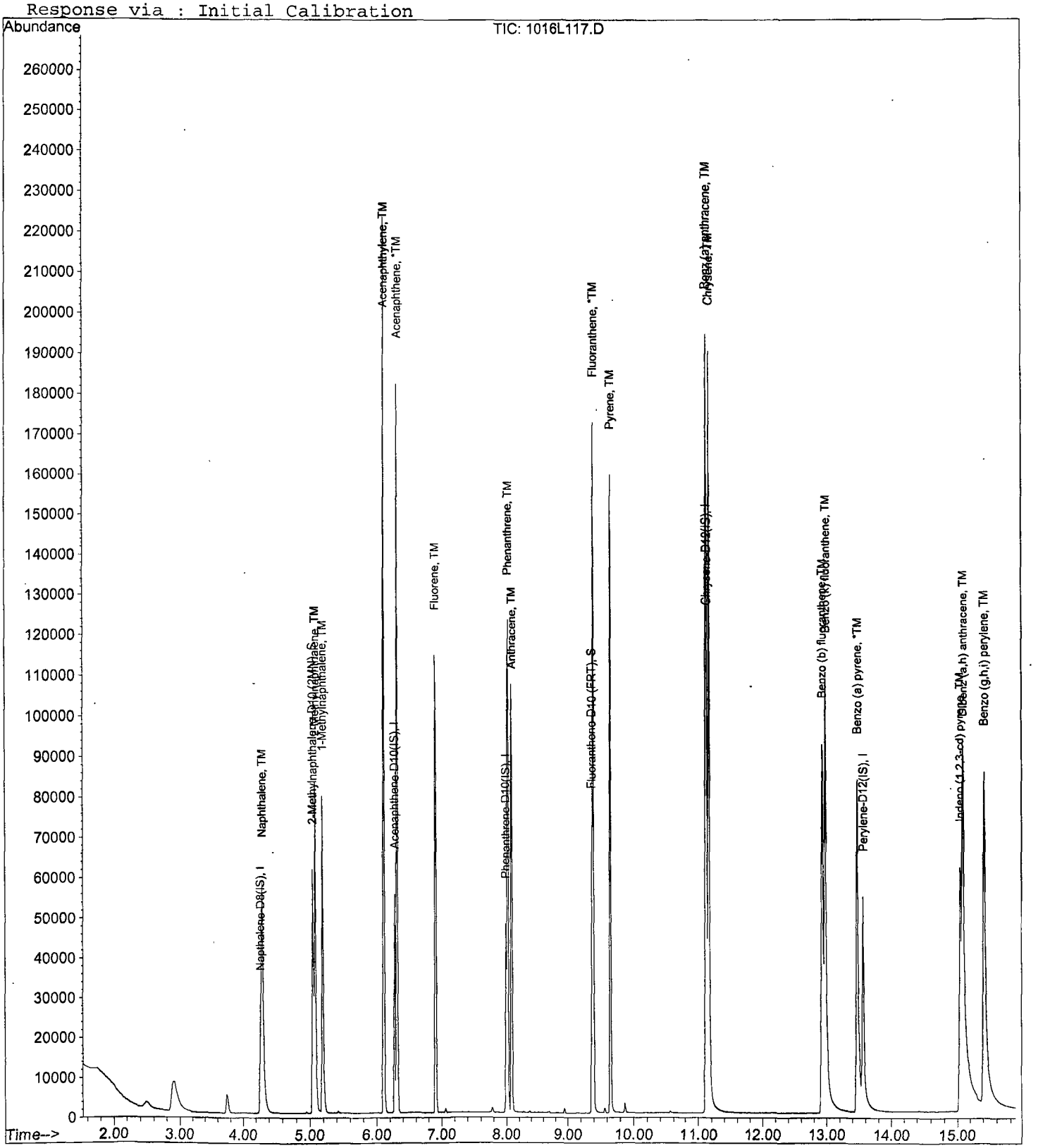
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L117.D Vial: 17
Acq On : 23 Oct 20 11:22 Operator: MA
Sample : 5 SIM 08/21/20 (1) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 23 11:44 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/23/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L123.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	0.9600	1.085	13	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.114	1.194	7.2	S	
4	TM	2-Methylnaphthalene	0.6501	0.7758	19	TM	
5	TM	1-Methylnaphthalene	0.6400	0.7487	17	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	3.679	4.102	12	TM	
8	*TM	Acenaphthene	1.093	1.086	0.58	*TM	
9	TM	Fluorene	1.356	1.549	14	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.018	1.019	0.10	TM	
12	TM	Anthracene	0.9311	0.9731	4.5	TM	
13	S	Fluoranthene-D10 (FRT)	1.238	1.327	7.2	S	
14	*TM	Fluoranthene	1.380	1.498	8.6	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.043	1.202	15	TM	
17	TM	Benz (a) anthracene	1.027	1.145	11	TM	
18	TM	Chrysene	1.044	1.190	14	TM	
19	TM	Indeno (1,2,3-cd) pyrene	1.244	1.464	18	TM	
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	0.9609	0.9781	1.8	TM	
22	TM	Benzo (k) fluoranthene	1.069	1.234	15	TM	
23	*TM	Benzo (a) pyrene	0.8856	0.9829	11	*TM	
24	TM	Dibenz (a,h) anthracene	0.9538	1.059	11	TM	
25	TM	Benzo (g,h,i) perylene	0.9868	0.9686	1.8	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			10.1		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L123.D Vial: 23
Acq On : 23 Oct 20 16:15 Operator: MA
Sample : 5 SIM 08/21/20 (2) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 23 16:31 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	45063	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	25522	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	56001	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	72836	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	85621	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	53803	2.67922	ppb		0.00
Spiked Amount 5.000			Recovery	= 53.580%			
13) Fluoranthene-D10 (FRT)	9.38	212	74314	2.67876	ppb		0.00
Spiked Amount 5.000			Recovery	= 53.580%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	97774	5.65005	ppb		97
4) 2-Methylnaphthalene	5.08	142	69919	5.96674	ppb		92
5) 1-Methylnaphthalene	5.19	142	67473	5.84897	ppb		95
7) Acenaphthylene	6.11	152	209405	5.57585	ppb		99
8) Acenaphthene	6.31	154	55448	4.97099	ppb		100
9) Fluorene	6.90	166	79049	5.71077	ppb		88
11) Phenanthrene	8.02	178	114102	5.00524	ppb		99
12) Anthracene	8.08	178	108988	5.22527	ppb		99
14) Fluoranthene	9.40	202	167776	5.42856	ppb		99
16) Pyrene	9.66	202	175070	5.75956	ppb		99
17) Benz (a) anthracene	11.11	228	166801	5.57288	ppb		97
18) Chrysene	11.16	228	173326	5.69618	ppb		97
19) Indeno (1,2,3-cd) pyrene	15.04	276	213201	5.88016	ppb	#	89
21) Benzo (b) fluoranthene	12.93	252	167487	5.08961	ppb		99
22) Benzo (k) fluoranthene	12.99	252	211301	5.76948	ppb	#	95
23) Benzo (a) pyrene	13.48	252	168307	5.54890	ppb	#	97
24) Dibenz (a,h) anthracene	15.08	278	181284	5.54934	ppb	#	96
25) Benzo (g,h,i) perylene	15.42	276	165868	4.90799	ppb		97

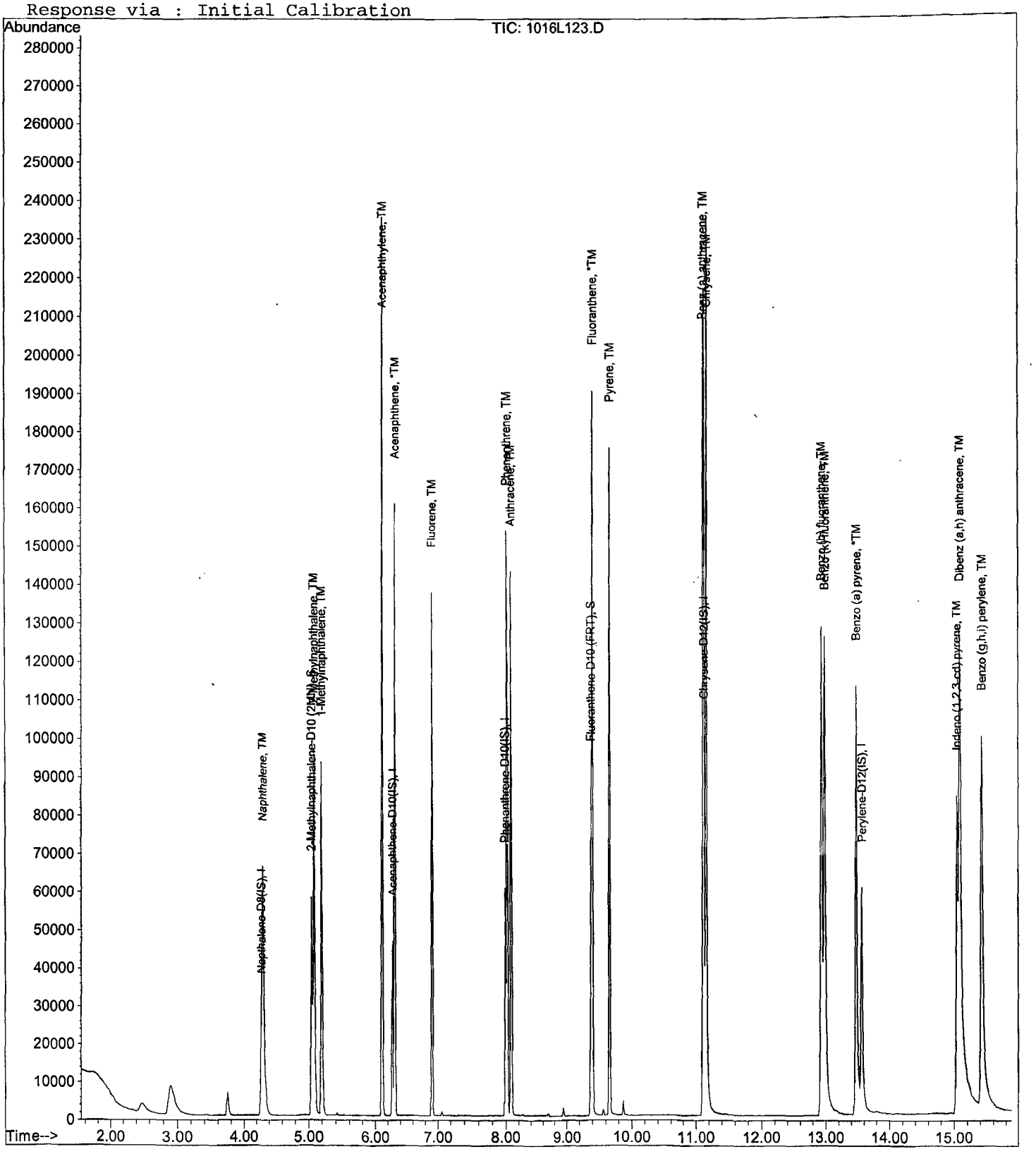
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L123.D Vial: 23
Acq On : 23 Oct 20 16:15 Operator: MA
Sample : 5 SIM 08/21/20 (2) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 23 16:31 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L121.D Vial: 21
Acq On : 23 Oct 20 15:31 Operator: MA
Sample : BA20268W15 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 15:11 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	35096	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	6.28	164	17523	2.50000	ppb	0.00
10) Phenanthrene-D10(IS)	7.99	188	40779	2.50000	ppb	0.00
15) Chrysene-D12(IS)	11.13	240	49650	2.50000	ppb	0.00
20) Perylene-D12(IS)	13.56	264	56304	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	78588	6.28103	ppb	0.00
Spiked Amount 6.250			Recovery	= 100.496%		
13) Fluoranthene-D10 (FRT)	9.38	212	98907	6.12011	ppb	0.00
Spiked Amount 6.250			Recovery	= 97.920%		

Target Compounds	Qvalue

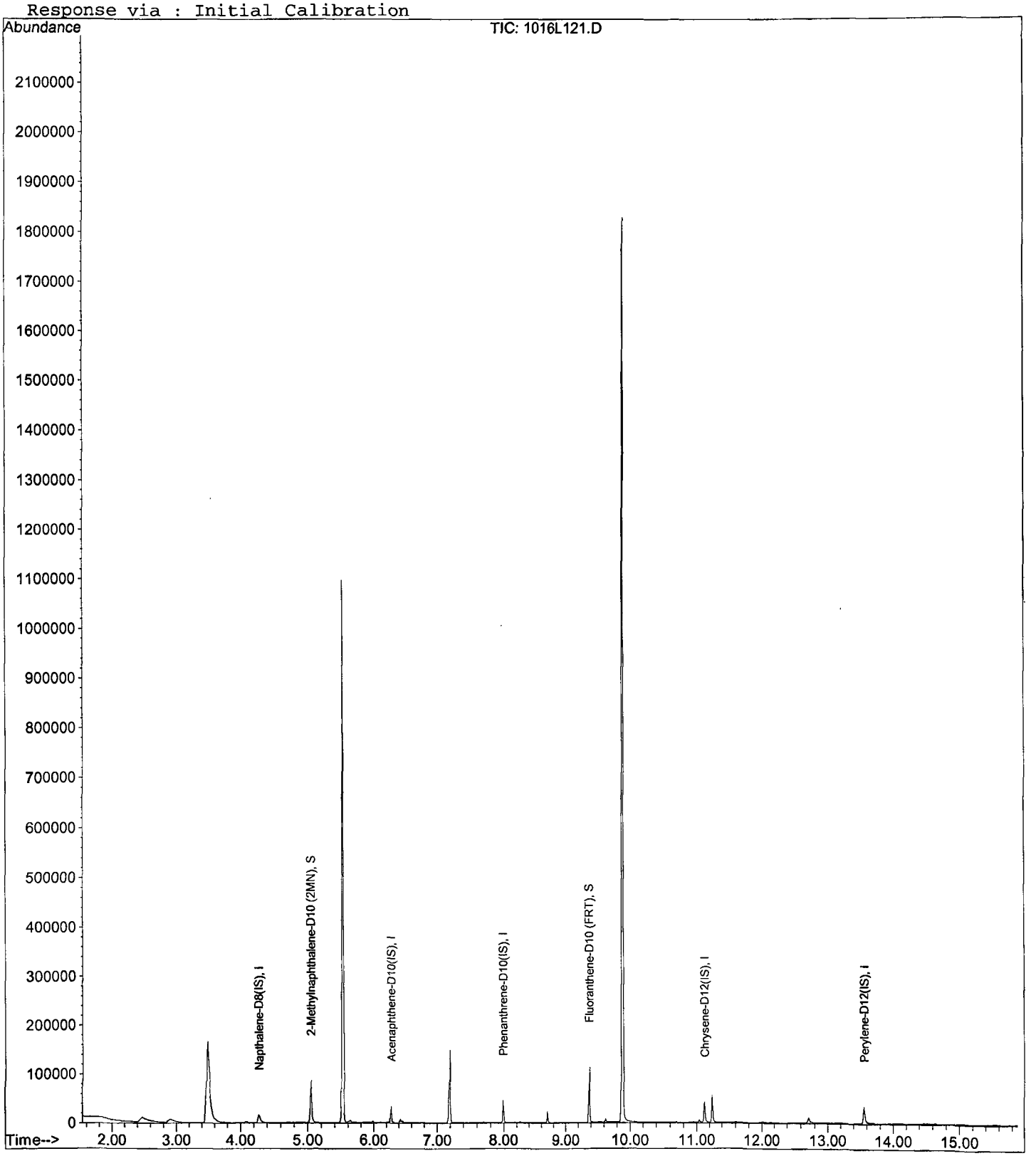
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L121.D Vial: 21
Acq On : 23 Oct 20 15:31 Operator: MA
Sample : BA20268W15 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 15:11 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L118.D Vial: 18
Acq On : 23 Oct 20 14:24 Operator: MA
Sample : 201021A BLK 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	36479	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	6.28	164	18826	2.50000	ppb	0.00
10) Phenanthrene-D10(IS)	7.99	188	36720	2.50000	ppb	0.00
15) Chrysene-D12(IS)	11.12	240	52875	2.50000	ppb	-0.01
20) Perylene-D12(IS)	13.56	264	57632	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	87512	6.72910	ppb	0.00
Spiked Amount 6.250			Recovery = 107.664%			
13) Fluoranthene-D10 (FRT)	9.38	212	100815	6.92774	ppb	0.00
Spiked Amount 6.250			Recovery = 110.848%			

Target Compounds Qvalue

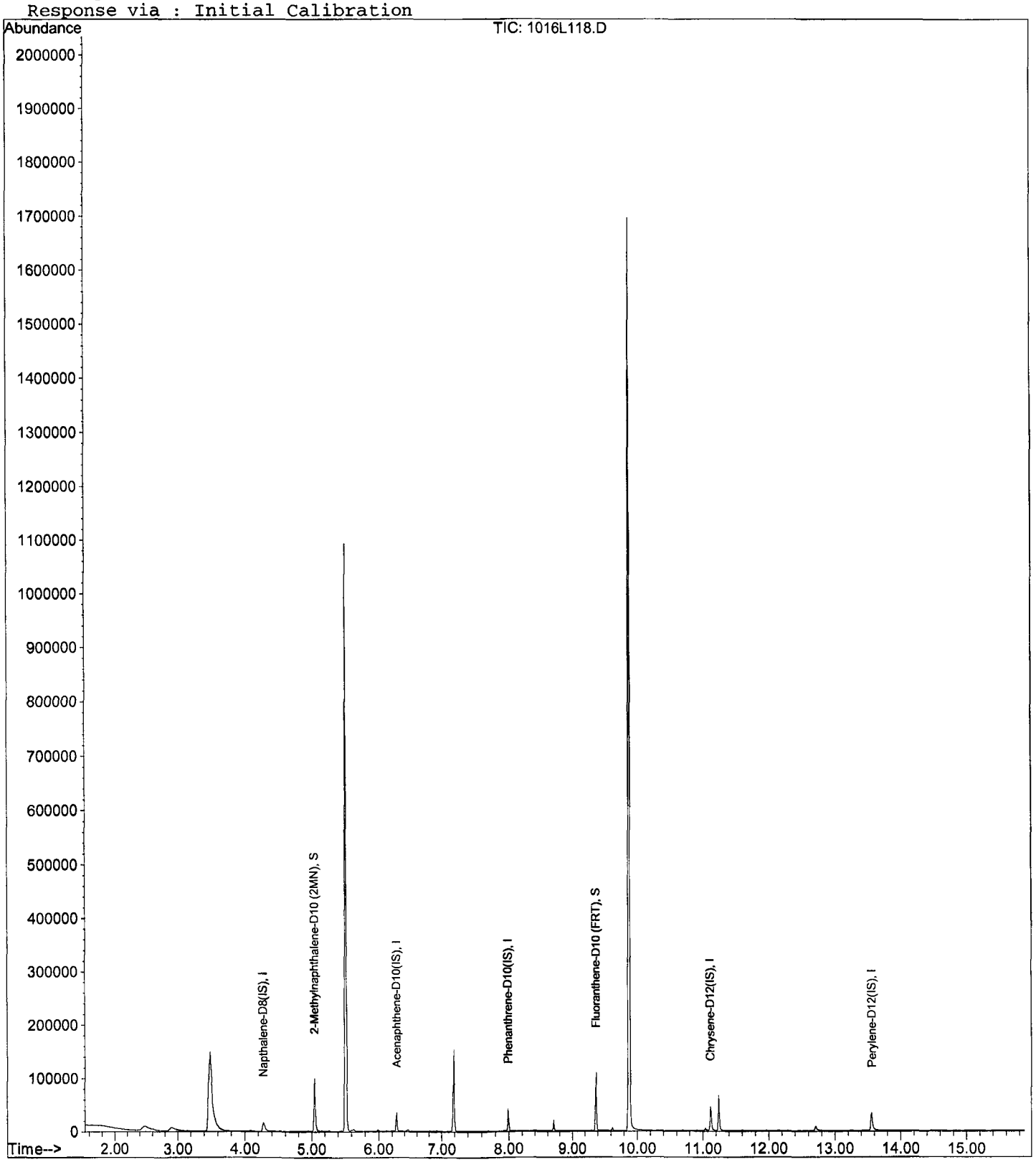
(#) = qualifier out of range (m) = manual integration
1016L118.D L1016.M Mon Nov 09 11:07:58 2020 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L118.D Vial: 18
Acq On : 23 Oct 20 14:24 Operator: MA
Sample : 201021A BLK 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L119.D Vial: 19
Acq On : 23 Oct 20 14:46 Operator: MA
Sample : 201021A LCS-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	33312	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	17203	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	34685	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	47498	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	51583	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	68264	5.74809	ppb		0.00
Spiked Amount 6.250			Recovery	= 91.968%			
13) Fluoranthene-D10 (FRT)	9.38	212	86646	6.30341	ppb		0.00
Spiked Amount 6.250			Recovery	= 100.848%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	59174	5.78215	ppb		99
4) 2-Methylnaphthalene	5.08	142	37261	5.37682	ppb		99
5) 1-Methylnaphthalene	5.19	142	36552	5.35785	ppb		100
7) Acenaphthylene	6.11	152	119632	5.90734	ppb		100
8) Acenaphthene	6.31	154	35657	5.92819	ppb		100
9) Fluorene	6.90	166	49099	6.57796	ppb		95
11) Phenanthrene	8.01	178	74556	6.60052	ppb		100
12) Anthracene	8.08	178	63268	6.12179	ppb		99
14) Fluoranthene	9.40	202	93840	6.12783	ppb		99
16) Pyrene	9.66	202	95474	6.02065	ppb		100
17) Benz (a) anthracene	11.11	228	93506	5.98827	ppb		100
18) Chrysene	11.16	228	94337	5.94268	ppb		99
19) Indeno (1,2,3-cd) pyrene	15.04	276	117109	6.19114	ppb	#	95
21) Benzo (b) fluoranthene	12.93	252	90753	5.72200	ppb		99
22) Benzo (k) fluoranthene	12.98	252	118879	6.73479	ppb		100
23) Benzo (a) pyrene	13.48	252	84770	5.79870	ppb	#	97
24) Dibenz (a,h) anthracene	15.08	278	99842	6.34131	ppb		99
25) Benzo (g,h,i) perylene	15.42	276	100135	6.14767	ppb		96

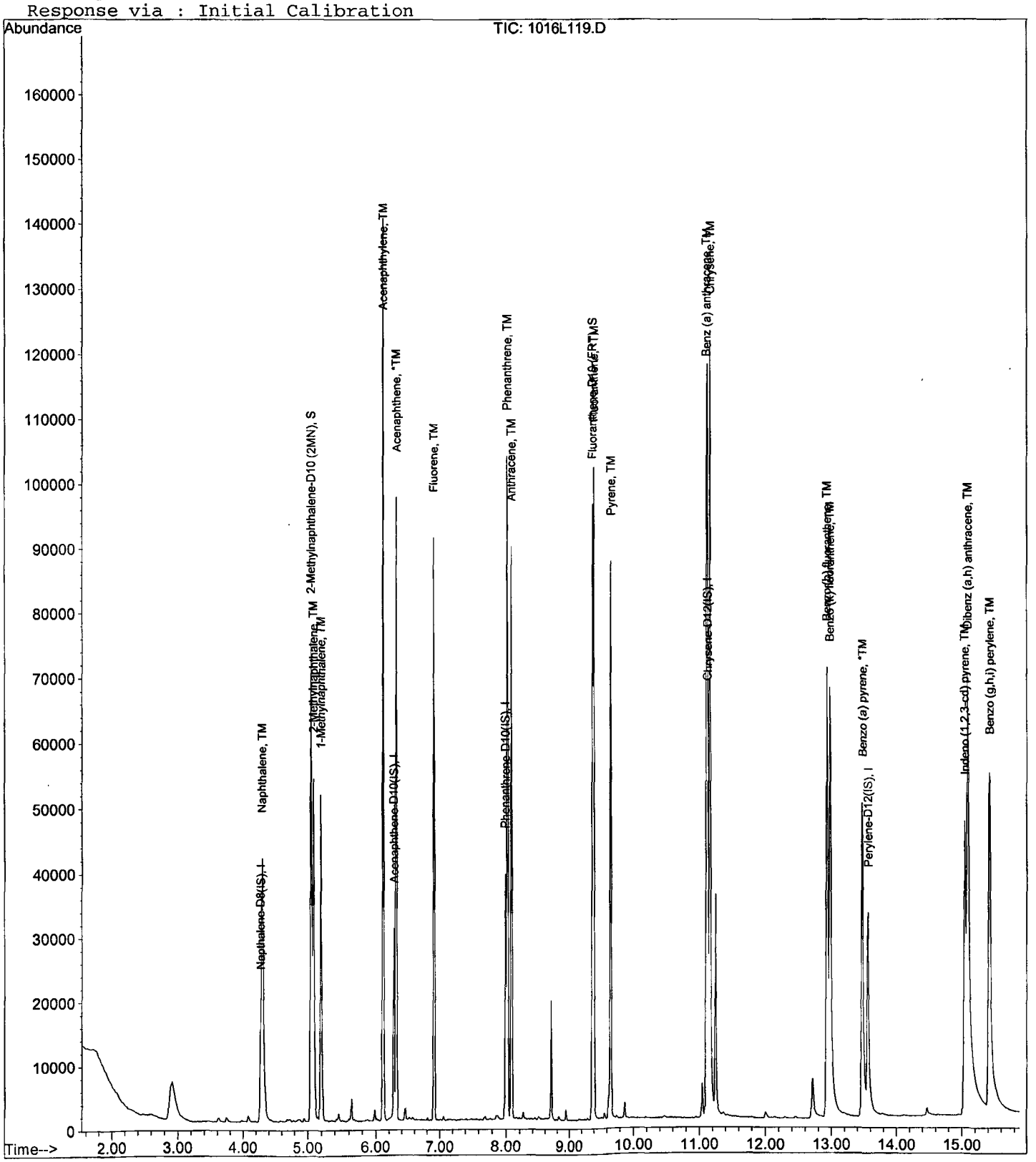
(#) = qualifier out of range (m) = manual integration
1016L119.D L1016.M Mon Nov 09 11:08:03 2020

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L119.D Vial: 19
Acq On : 23 Oct 20 14:46 Operator: MA
Sample : 201021A LCS-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L120.D Vial: 20
Acq On : 23 Oct 20 15:09 Operator: MA
Sample : 201021A LCSD-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	35659	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	20111	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	36788	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	55255	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	58690	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	73242	5.76134 ppb		0.00
Spiked Amount 6.250			Recovery	= 92.176%		
13) Fluoranthene-D10 (FRT)	9.38	212	95653	6.56087 ppb		0.00
Spiked Amount 6.250			Recovery	= 104.976%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	61423	5.60687 ppb		100
4) 2-Methylnaphthalene	5.08	142	39905	5.37935 ppb		100
5) 1-Methylnaphthalene	5.19	142	39232	5.37219 ppb		100
7) Acenaphthylene	6.11	152	136229	5.75419 ppb		100
8) Acenaphthene	6.31	154	44748	6.36387 ppb		98
9) Fluorene	6.90	166	57803	6.62429 ppb		95
11) Phenanthrene	8.01	178	72702	6.06844 ppb		100
12) Anthracene	8.08	178	62807	5.72978 ppb		99
14) Fluoranthene	9.40	202	103636	6.38065 ppb		99
16) Pyrene	9.66	202	105194	5.70234 ppb		99
17) Benz (a) anthracene	11.11	228	105722	5.82011 ppb		100
18) Chrysene	11.16	228	114116	6.17947 ppb		100
19) Indeno (1,2,3-cd) pyrene	15.04	276	131587	5.97994 ppb		91
21) Benzo (b) fluoranthene	12.93	252	95491	5.29166 ppb		99
22) Benzo (k) fluoranthene	12.99	252	129255	6.43589 ppb	#	98
23) Benzo (a) pyrene	13.48	252	92419	5.55639 ppb	#	97
24) Dibenz (a,h) anthracene	15.08	278	112732	6.29297 ppb		97
25) Benzo (g,h,i) perylene	15.42	276	113426	6.12040 ppb		97

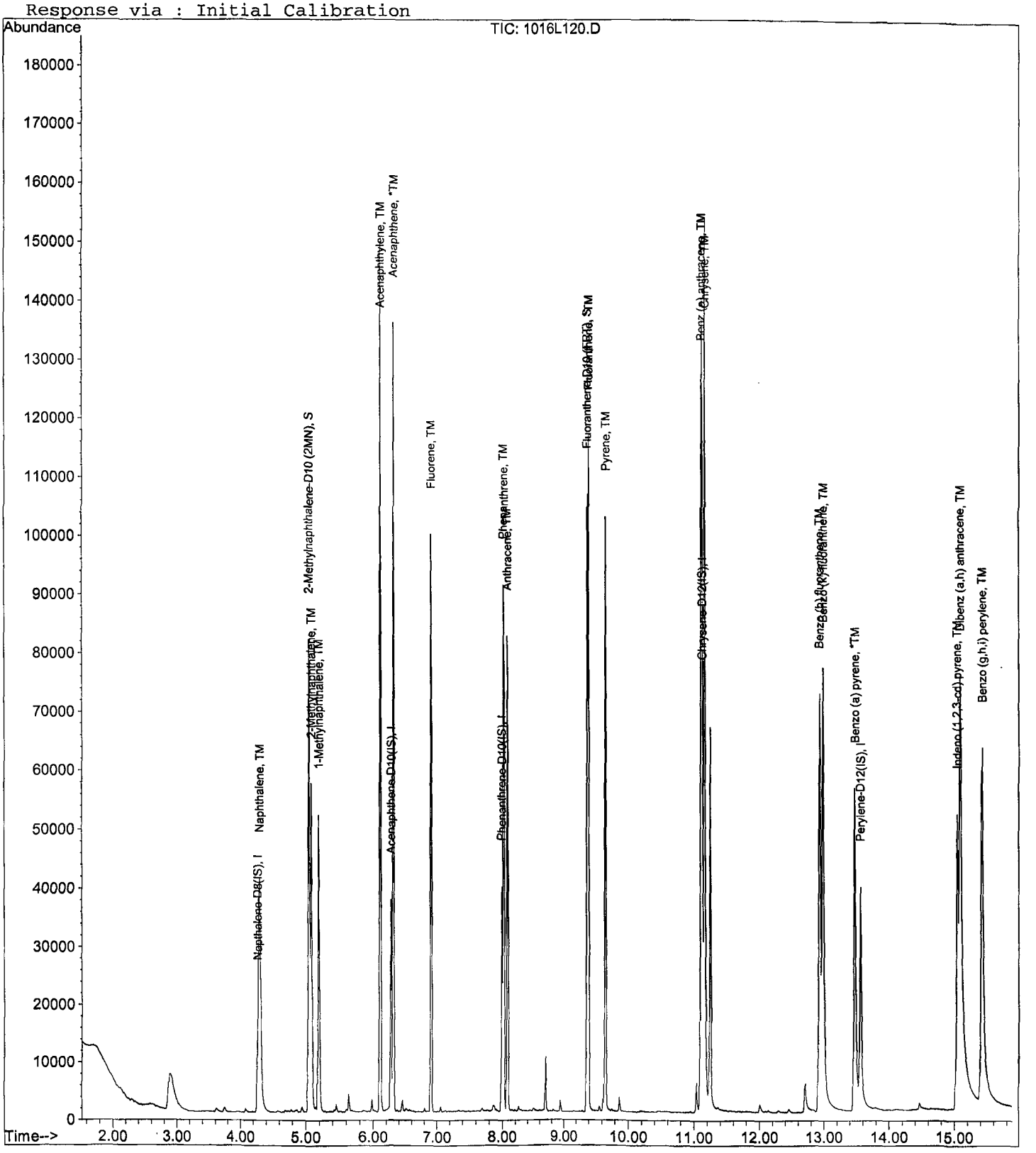
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L120.D Vial: 20
Acq On : 23 Oct 20 15:09 Operator: MA
Sample : 201021A LCSD-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

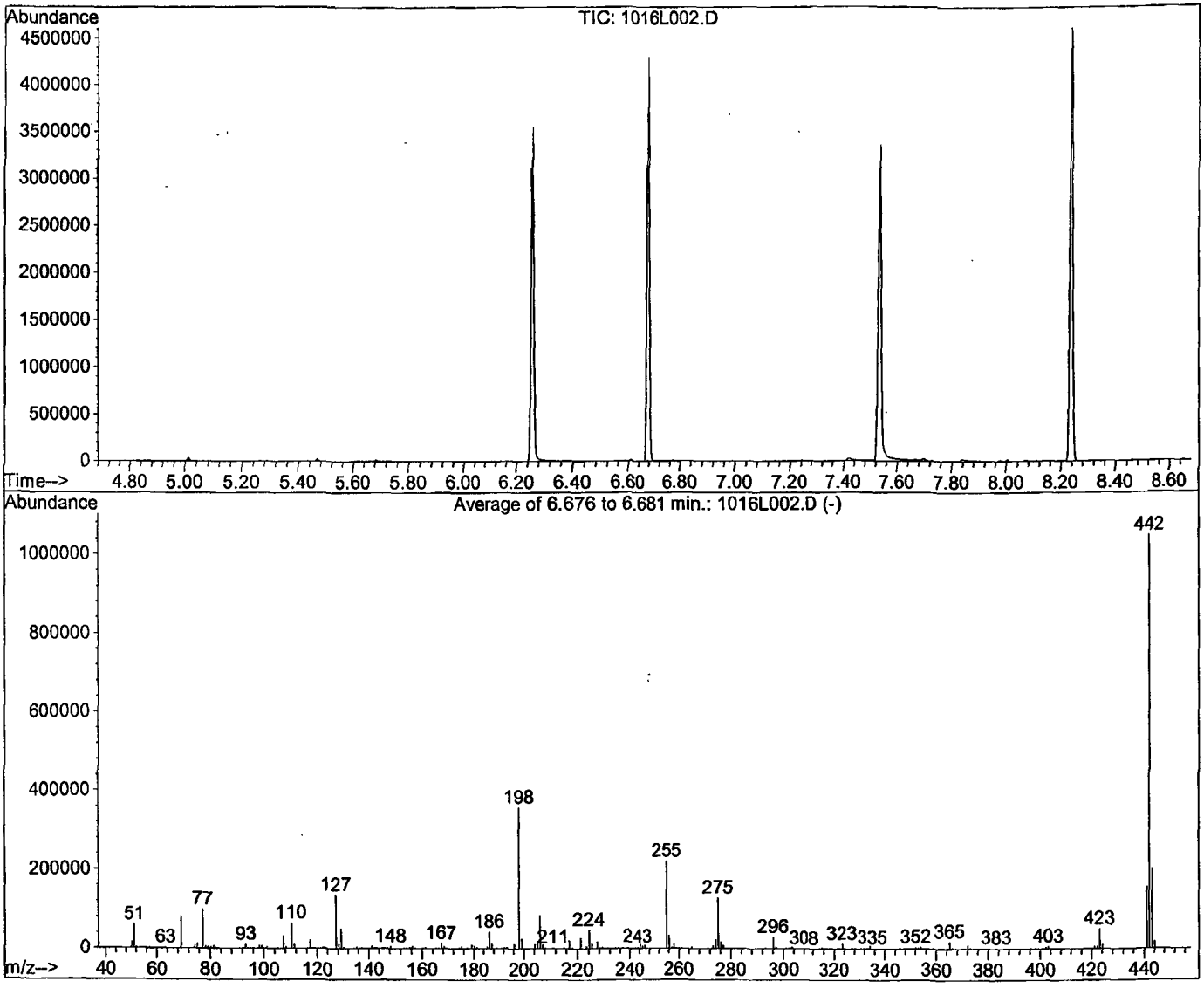
Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



DFTPP

Data File : M:\LINUS\DATA\L201016\1016L002.D Vial: 2
Acq On : 16 Oct 20 10:21 Operator: MA
Sample : SV Tune 10/01/19 Inst : Linus
Misc : Multiplr: 1.00

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270



AutoFind: Scans 1643, 1644, 1645; Background Corrected with Scan 1634

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	16.6	59205	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	502	PASS
127	198	10	80	38.1	135989	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	357205	PASS
199	198	5	9	6.7	23979	PASS
275	198	10	60	35.8	127832	PASS
365	198	1	100	5.1	18325	PASS
441	442	0.01	24	14.9	155691	PASS
442	198	50	500	293.3	1047637	PASS
443	442	15	24	19.2	201045	PASS

1016L002.D L1016.M Fri Oct 16 14:23:20 2020

Data File Name:	**1016L002.D**
Data File Path:	**M:\LINUS\DATA\L201016**
Operator:	**MA**
Date Acquired:	**16 Oct 2020 10:21**
Method File:	**DFTPP2.M**
Sample Name:	**SV Tune 10/01/19**
Vial Number:	**2**
Instrument Name:	**Linus**

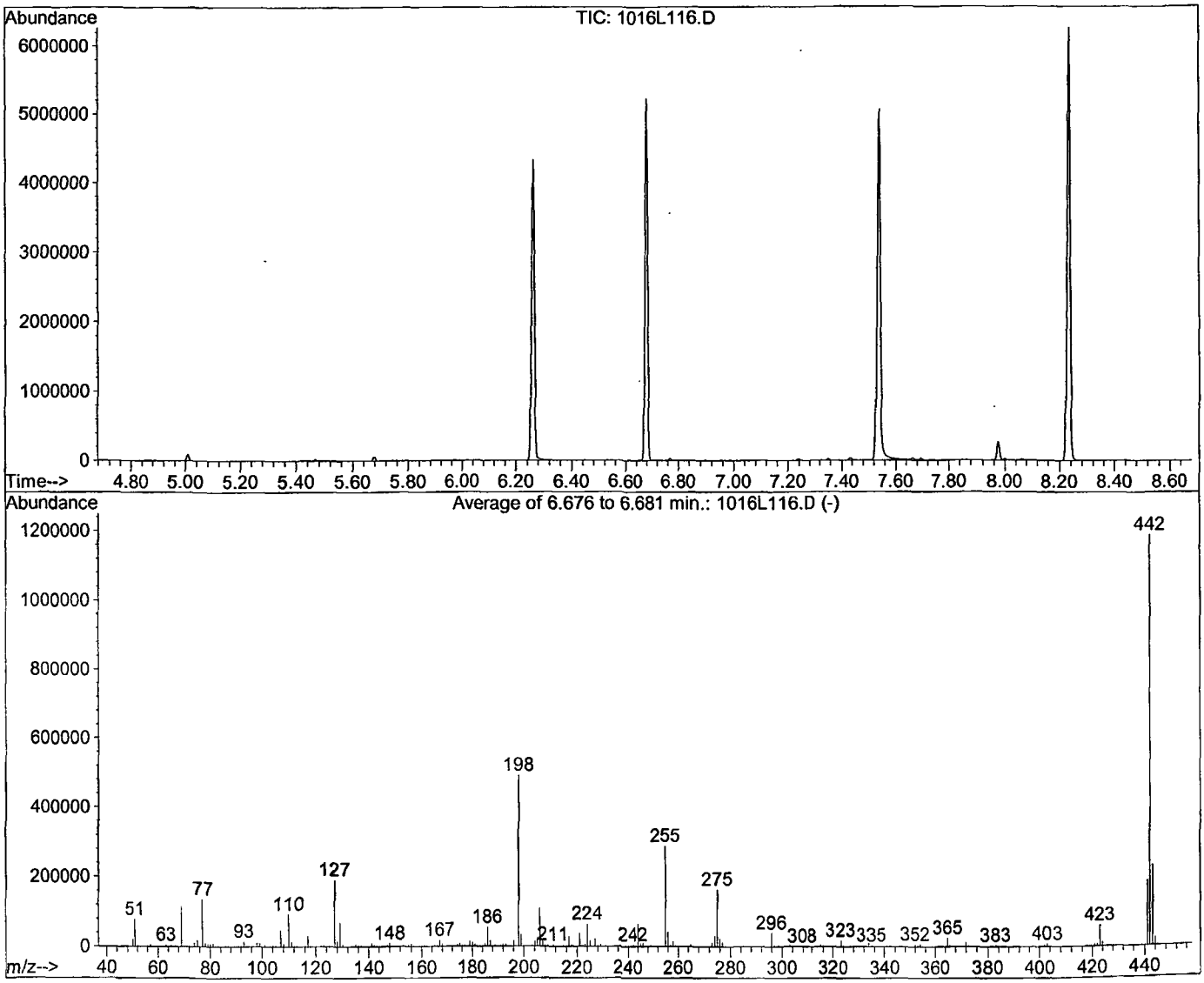
#	Name	Ret Time	Target Response
1)	DDT	8.24	32904900
2)	DDD	7.98	120213
3)	DDE	6.84	0

Breakdown **0.36**

DFTPP

Data File : M:\LINUS\DATA\L201016\1016L116.D Vial: 74
Acq On : 23 Oct 20 10:31 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Linus
Misc : Multiplr: 1.00

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270



AutoFind: Scans 1643, 1644, 1645; Background Corrected with Scan 1634

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	15.9	77943	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	658	PASS
127	198	10	80	38.9	191211	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	491712	PASS
199	198	5	9	6.7	32912	PASS
275	198	10	60	33.1	162773	PASS
365	198	1	100	4.9	23893	PASS
441	442	0.01	24	15.9	189227	PASS
442	198	50	500	241.9	1189611	PASS
443	442	15	24	19.6	232619	PASS

Data File Name:	**1016L116.D**
Data File Path:	**M:\LINUS\DATA\L201016**
Operator:	**MA**
Date Acquired:	**23 Oct 2020 10:31**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**74**
Instrument Name:	**Linus**

#	Name	Ret Time	Target Response
1)	DDT	8.24	44661600
2)	DDD	7.98	1802880
3)	DDE	7.69	179906

Breakdown **4.25**

Standard SIM Curve **Prep'd By (Initials)** MA

Prep Date 08/21/20

Exp Date 06/19/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/21/20	06/19/21	10 uL	100uL	MC 59130,90uL	0.1 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/21/20	06/19/21	20 uL	100uL	MC 59130,80uL	0.2 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/21/20	06/19/21	10 uL	100uL	MC/59130 90uL	0.5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/21/20	06/19/21	20 uL	100uL	MC 59130 80 uL	1.0 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	08/20/20	08/20/21	5 uL	200uL	MC 59130,190 uL	5.0 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	5 uL	"	"	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	4 uL	"	"	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	08/20/20	08/20/21	5 uL	100 uL	MC 59130 80 uL	10 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	5 uL	"	"	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200	08/20/20	08/20/21	25 uL	100uL	MC 59130 50 uL	50 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	25 uL	"	"	25 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	08/20/20	08/20/21	50 uL	100uL	na	100 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	50 uL	"	"	50 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL

Name of Final Standard 8270 PAH SIM Second Source **Prep'd By (Initials)** MA

Prep Date 08/21/20

Exp Date 06/19/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	CL13117-40623. Open 7/24/19	12/31/22	5 uL	200uL	MC 59130,195uL	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	4 uL	"	"	2.5ug/mL

Name of Final Standard	**PAH SIM Stock (Ampule)**
Prep Date	**08/20/20**
Exp Date	**08/20/21**

Prep'd By (I **MA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	ALO-130490	200 ug/mL	**CL13121-41383**	**12/31/22**	1000 uL	1mL	**NA**	200ug/mL

Name of Final Standard	SIM Surrogate
Prep Date	08/11/20
Exp Date	04/01/21

Prep'd By (Initials) CD

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0154854-49995,49992,50255,50256,50257	10/01/25	5mL	100 mL	Acetone #0234320	100 ug/mL

Name of Final Standard	**8270 SIM PAH Internal Standard**	**Prep'd By (Initials)**	**CD**
Prep Date	**06/19/20**		
Exp Date	**06/19/21**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	**A0157142-49875**	**12/31/25**	625uL	10mL	**MC DW717**	125 ug/mL

Name of Final Standard	**SIM Spike**	**Prep'd By (Initials)**	**MA**
Prep Date	**09/11/20**		
Exp Date	**09/11/21**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	**CL13121- 41545 41546 41547 49548**	**12/31/22**	5 mL	25 mL	**Acetone 0246130**	40 ug/mL

_LIQ003

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	201021A	Extraction Method	LIQ003	Units	mL

Spiked ID 1	8270T Spike 10/6/20 ex 10/6/21		Surrogate ID 1	8270 Surrogate 10/6/20 ex 10/6/21	
Spiked ID 2	Sim Spike 9/11/20 ex 9/11/21		Surrogate ID 2	SIM Surrogate 8/11/20 ex 8/11/21	
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/21/20 12:00	
Spiked ID 8			Ext. End Time:	10/23/20 10:35	
			GC Requires Extract By:		

pH1	2	10/21/20 12:10	Water Bath Temp 1 °C	EWB5 75/74.1 °
pH2	14	10/22/20 11:05	Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: **Date** 10/21/20 12:00:00 PM **Witnessed By:** 10/21/20 12:00 **Date** 10/23/20 1:59:16 PM

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201021A Blk				0.2,0.05	1,2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
2	201021A LCS-1		1	1	0.2	1	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
3	201021A LCS-2		0.125	2	0.050	2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
4	201021A LCSD-1		1	1	0.2	1	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
5	201021A LCSD-2		0.125	2	0.050	2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
6	BA20268	BA20268W15			0.2,0.05	1,2	800	1	2/1	10/21/20 12:00	93765
						equip	EWB5				
7	BA20486	BA20486W13			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93803
						equip	EWB5				
8	BA20539 MS-1	BA20539W28	1	1	0.2	1	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
9	BA20539 MSD-1	BA20539W27	1	1	0.2	1	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
10	BA20539 MS-2	BA20539W26	0.125	2	0.05	2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
11	BA20539 MSD-2	BA20539W24	0.125	2	0.05	2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
12	BA20539	BA20539W34			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
13	BA20541	BA20541W11			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
14	BA20542	BA20542W13			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
15	BA20544	BA20544W15			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				

Solvent and Lot#	
PH Strips	.HC904495
Dichloromethane (DCM)	.60127
1+1 H2SO4	.231834
10N NaOH	.10/22/20
Filter Paper	.400178
Na2SO4	.2019070279

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	MA
Date	10/26/20
Time	12:00
Refrigerator	GC_C

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified	10/26/20 12:41:37 PM

Reviewed By: MA **Date** 10/26/20

Injection Log

Directory: M:\LINUS\DATA\L201016\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	1016L002.D	1	SV Tune 10/01/19		16 Oct 20 10:21
3	1016L003.D	1	0.1 SIM 08/21/20		16 Oct 20 10:37
4	1016L004.D	1	0.2 SIM 08/21/20		16 Oct 20 10:59
5	1016L005.D	1	0.5 SIM 08/21/20		16 Oct 20 11:21
6	1016L006.D	1	1 SIM 08/21/20		16 Oct 20 11:43
7	1016L007.D	1	5 SIM 08/21/20		16 Oct 20 12:05
8	1016L008.D	1	10 SIM 08/21/20		16 Oct 20 12:27
9	1016L009.D	1	50 SIM 08/21/20		16 Oct 20 12:50
10	1016L010.D	1	100 SIM 08/21/20		16 Oct 20 13:12
11	1016L011.D	1	SS SIM 08/21/20		16 Oct 20 13:34
74	1016L116.D	1	SV TUNE 10/02/20		23 Oct 20 10:31
17	1016L117.D	1	5 SIM 08/21/20 (1)		23 Oct 20 11:22
18	1016L118.D	1.25	201021A BLK 1/800		23 Oct 20 14:24
19	1016L119.D	1.25	201021A LCS-2 1/800		23 Oct 20 14:46
20	1016L120.D	1.25	201021A LCSD-2 1/800		23 Oct 20 15:09
21	1016L121.D	1.25	BA20268W15 1/800		23 Oct 20 15:31
23	1016L123.D	1	5 SIM 08/21/20 (2)		23 Oct 20 16:15

ORGANICS

Calibration Data

2MEE
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 05/01/20
Matrix: Instrument: Yoda Initials: MA

0501Y003.D 0501Y004.D 0501Y006.D 0501Y007.D 0501Y008.D 0501Y009.D 0501Y010.D 0501Y011.D

		Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r^2	Q	MRF
1	I	1,4-dichlorobenzene-D4(IS)																
2	TM	2-(2-Methoxyethoxy)ethanol	0.1264	0.1827	0.1475	0.1625	0.1354	0.1644	0.1592	0.1806			0.16	13	TM			
3																		
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Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y003.D Vial: 39
Acq On : 1 May 20 9:39 Operator: MA,SS
Sample : 50ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:24 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	428206	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.28	45	67679	26.91018	ppb	95

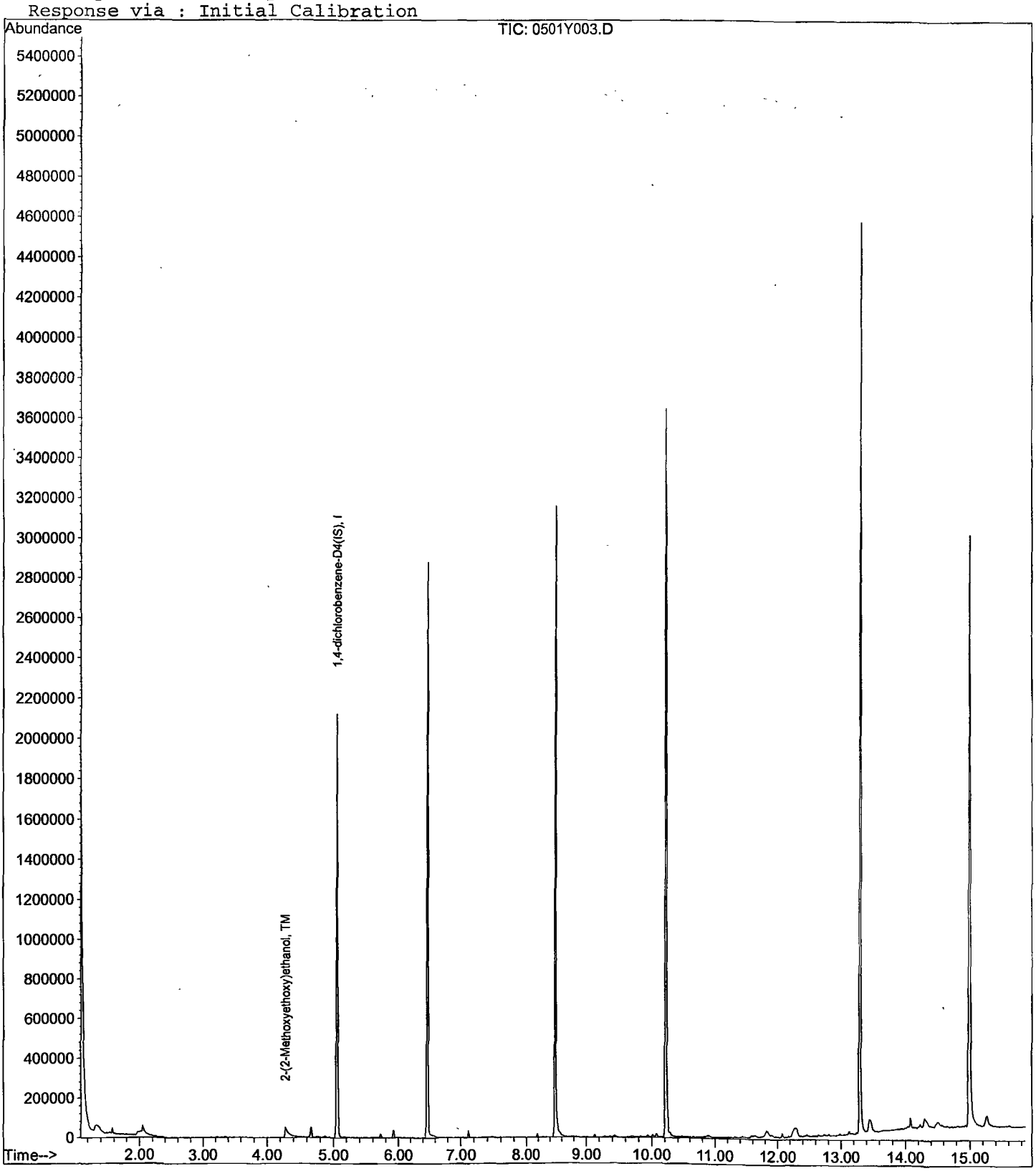
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y003.D Vial: 39
Acq On : 1 May 20 9:39 Operator: MA,SS
Sample : 50ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y004.D Vial: 40
Acq On : 1 May 20 10:03 Operator: MA,SS
Sample : 100ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	358512	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	163785	77.78322	ppb	99

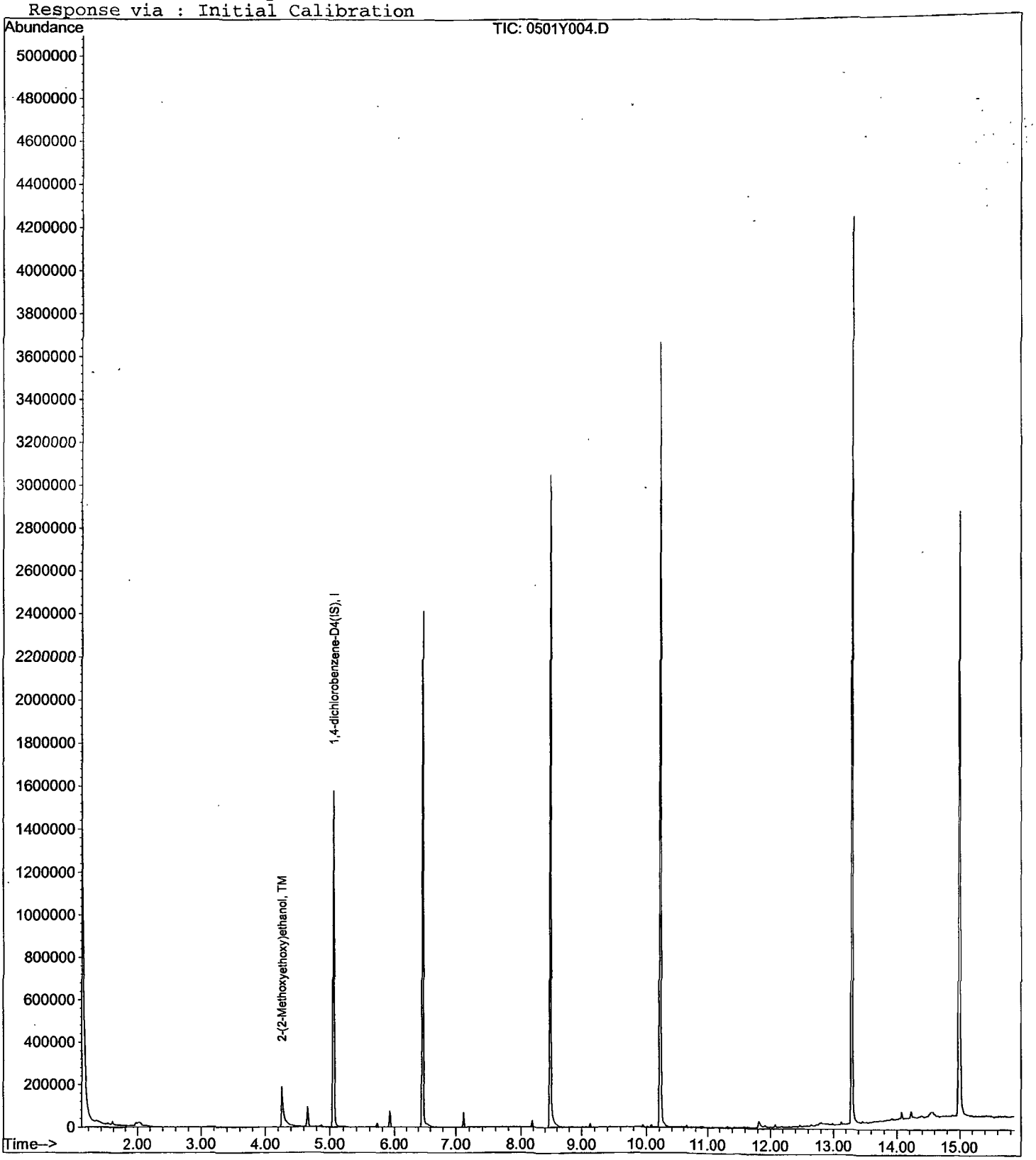
(#) = qualifier out of range (m) = manual integration
0501Y004.D YMEE0501.M Fri May 01 14:33:11 2020

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y004.D Vial: 40
Acq On : 1 May 20 10:03 Operator: MA,SS
Sample : 100ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y006.D Vial: 42
Acq On : 1 May 20 10:51 Operator: MA,SS
Sample : 200ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	431824	40.00000 ppb	-0.01

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	318364	125.52571 ppb	98

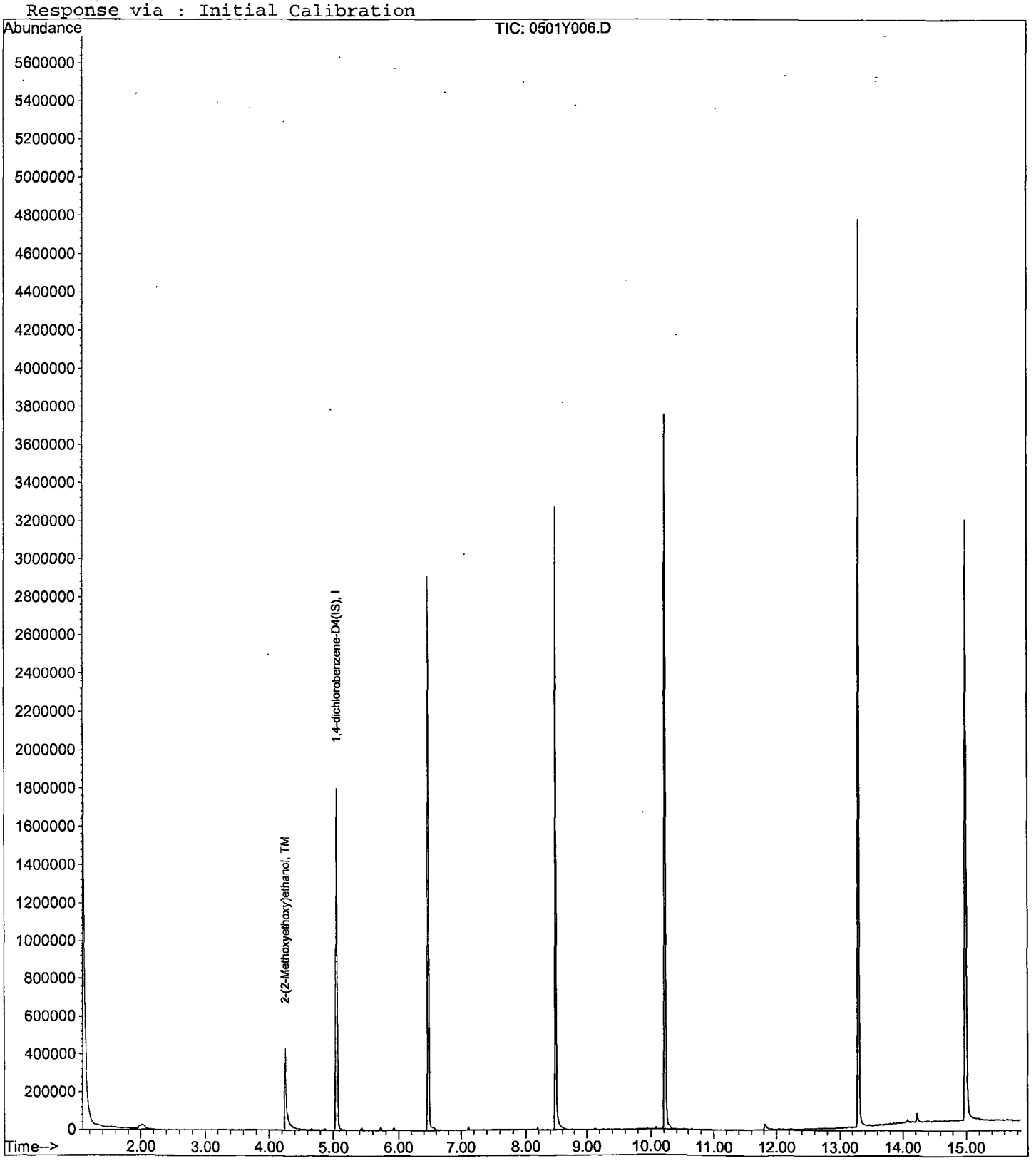
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y006.D Vial: 42
Acq On : 1 May 20 10:51 Operator: MA,SS
Sample : 200ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y007.D Vial: 7
Acq On : 1 May 20 11:24 Operator: MA,SS
Sample : 400ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	425852	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	692148	276.72970	ppb	99

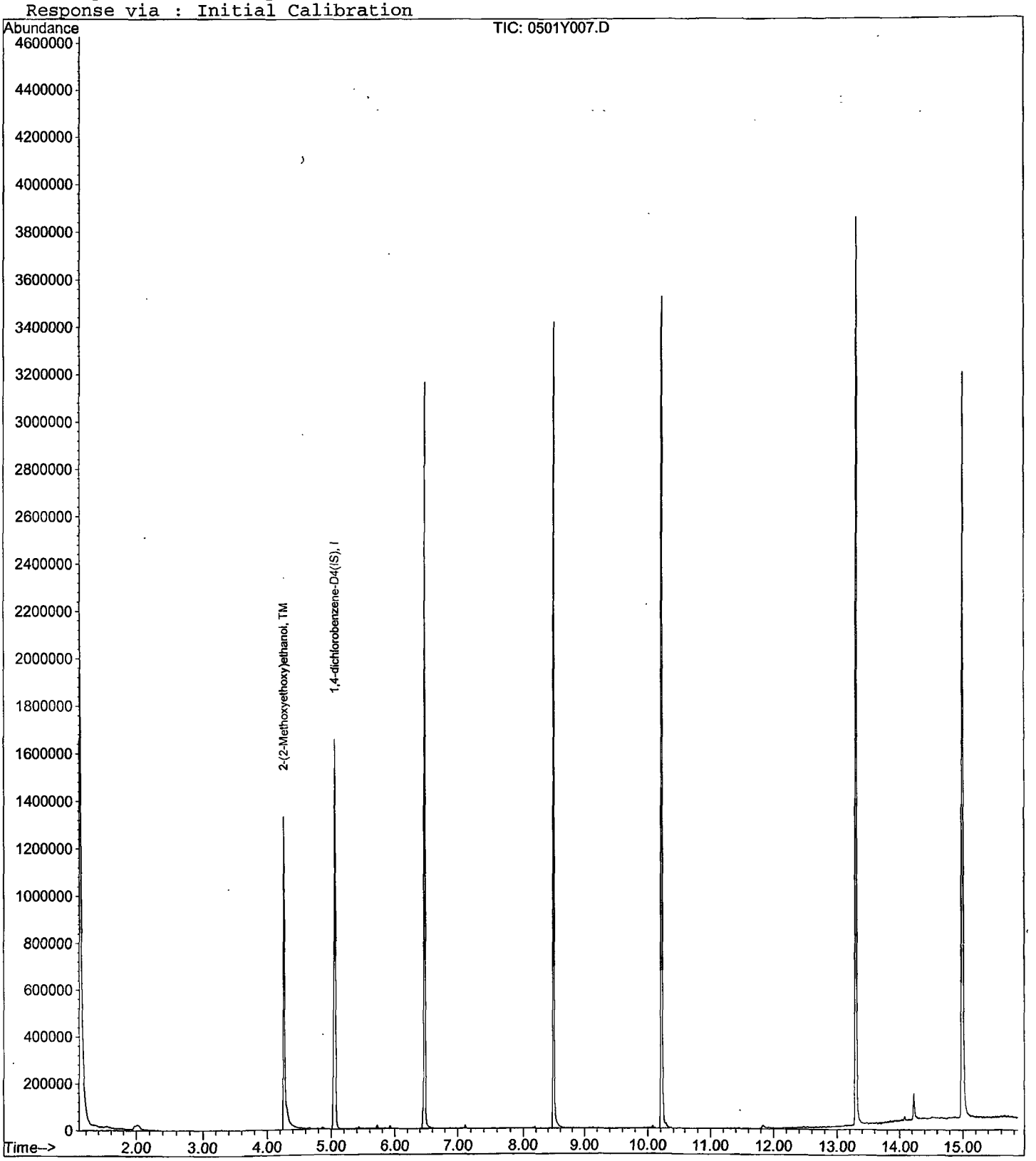
(#) = qualifier out of range (m) = manual integration
0501Y007.D YMEE0501.M Fri May 01 14:33:20 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y007.D Vial: 7
Acq On : 1 May 20 11:24 Operator: MA,SS
Sample : 400ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y008.D Vial: 8
Acq On : 1 May 20 11:48 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:16 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 12:15:50 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.07	152	483204	40.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.28	45	818058	442.11333	ppb	100

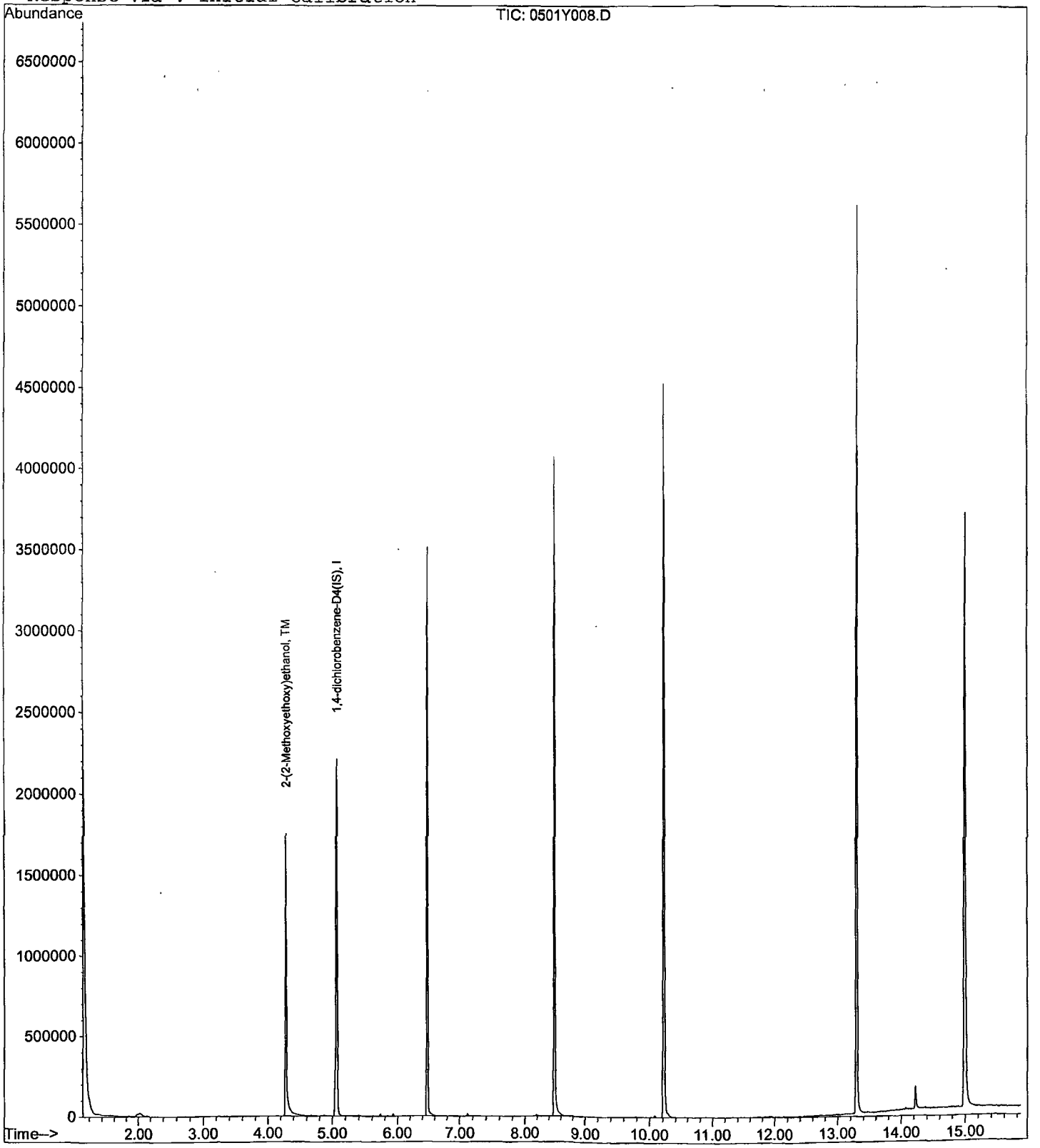
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y008.D Vial: 8
Acq On : 1 May 20 11:48 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:16 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y009.D Vial: 9
Acq On : 1 May 20 12:13 Operator: MA,SS
Sample : 600ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:14 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	445147	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.27	45	1097935	518.98742	ppb	99

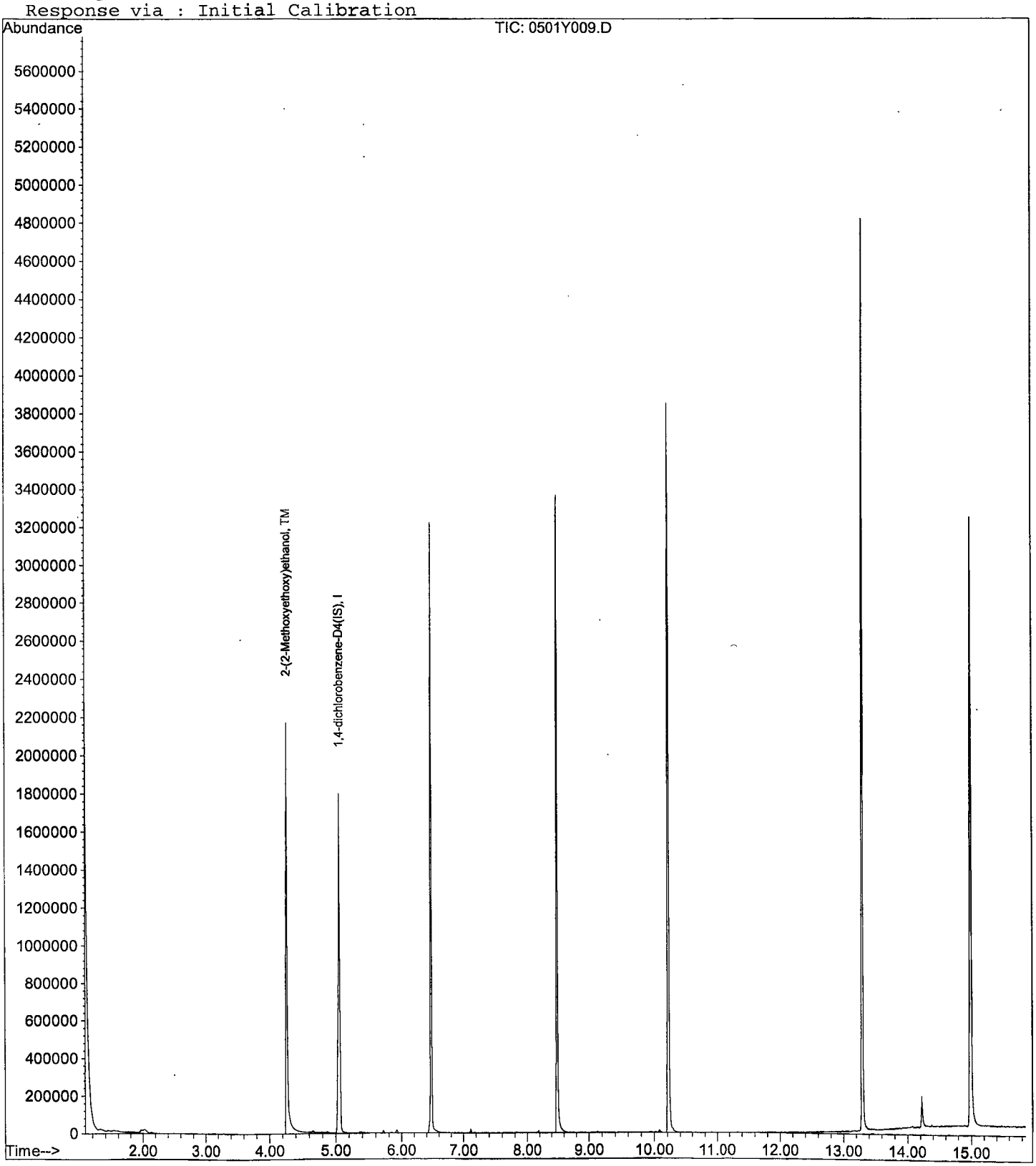
(#) = qualifier out of range (m) = manual integration
0501Y009.D YMEE0501.M Fri May 01 14:33:29 2020

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y009.D Vial: 9
Acq On : 1 May 20 12:13 Operator: MA,SS
Sample : 600ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:14 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y010.D Vial: 10
Acq On : 1 May 20 12:37 Operator: MA,SS
Sample : 800ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:36 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 12:15:50 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.07	152	461483	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.30	45	1469246	831.41690	ppb	99

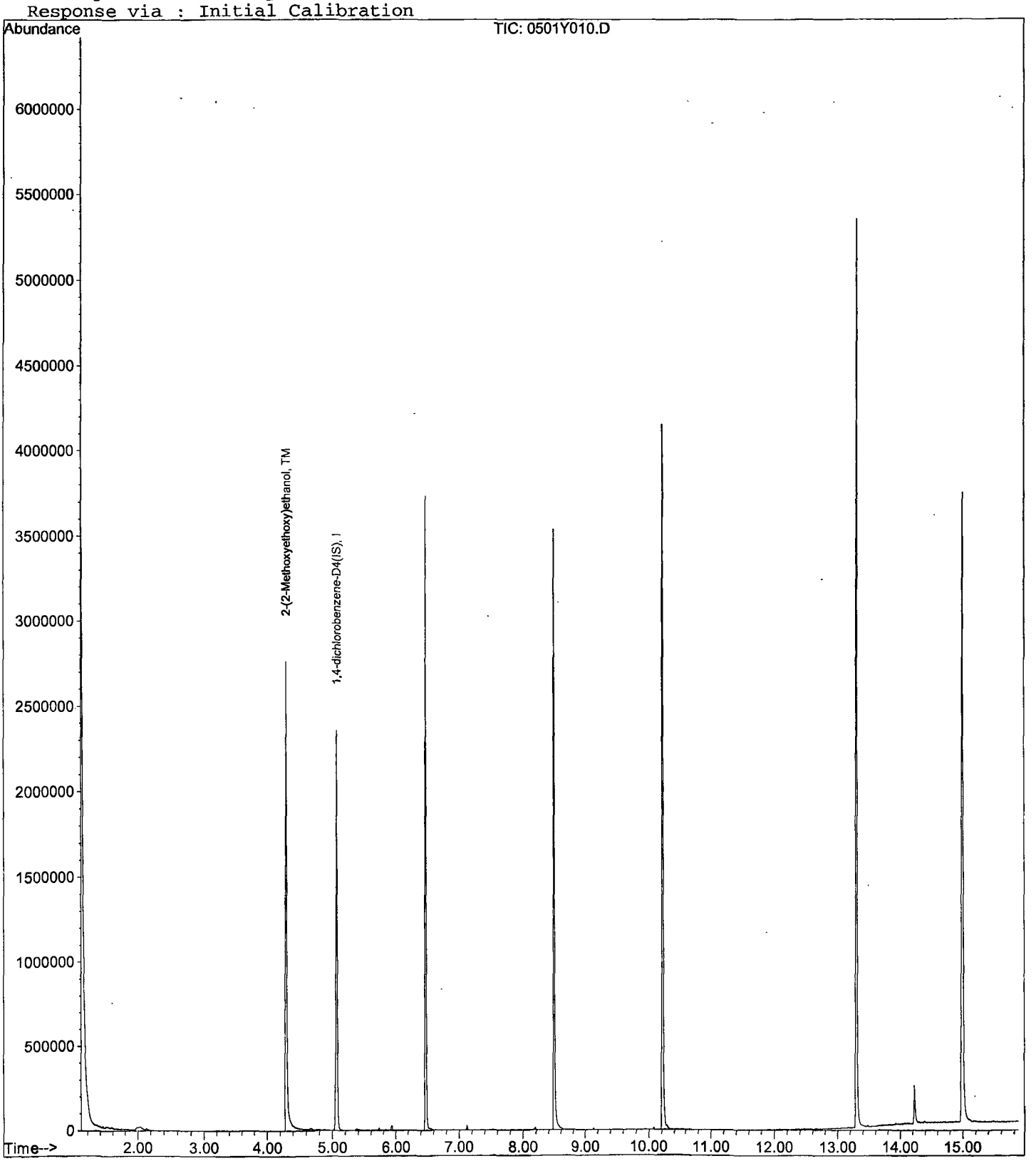
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y010.D Vial: 10
Acq On : 1 May 20 12:37 Operator: MA,SS
Sample : 800ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:36 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y011.D Vial: 11
Acq On : 1 May 20 13:01 Operator: MA,SS
Sample : 1000ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 13:03 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 12:15:50 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	445958	40.00000	ppb	-0.01

System Monitoring Compounds

Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.29	45	2014018	1172.78870	ppb	100

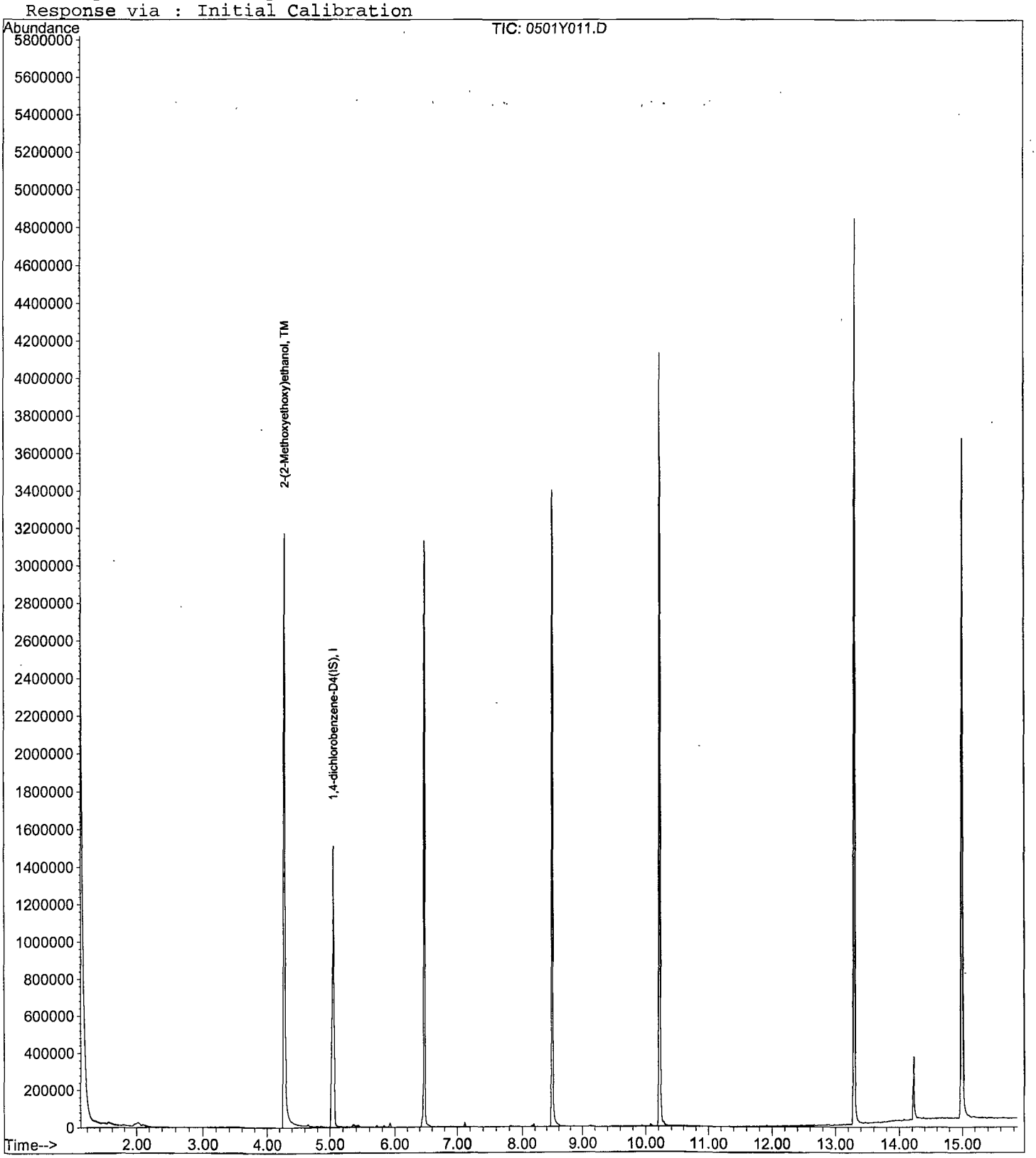
(#) = qualifier out of range (m) = manual integration
0501Y011.D YMEE0501.M Fri May 01 14:33:38 2020

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y011.D Vial: 11
Acq On : 1 May 20 13:01 Operator: MA,SS
Sample : 1000ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 13:03 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Second Source

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 1 May 20 13:50
Instrument: Yoda
Initial Cal. Date: 05/01/20
Data File: 0501Y013.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TM	2-(2-Methoxyethoxy)ethanol	0.1574	0.1794	14	TM	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
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29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			14.0		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y013.D Vial: 13
Acq On : 1 May 20 13:50 Operator: MA,SS
Sample : SSug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 14:30 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	461050	40.00000 ppb	-0.01

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	1033684	569.91471 ppb	100

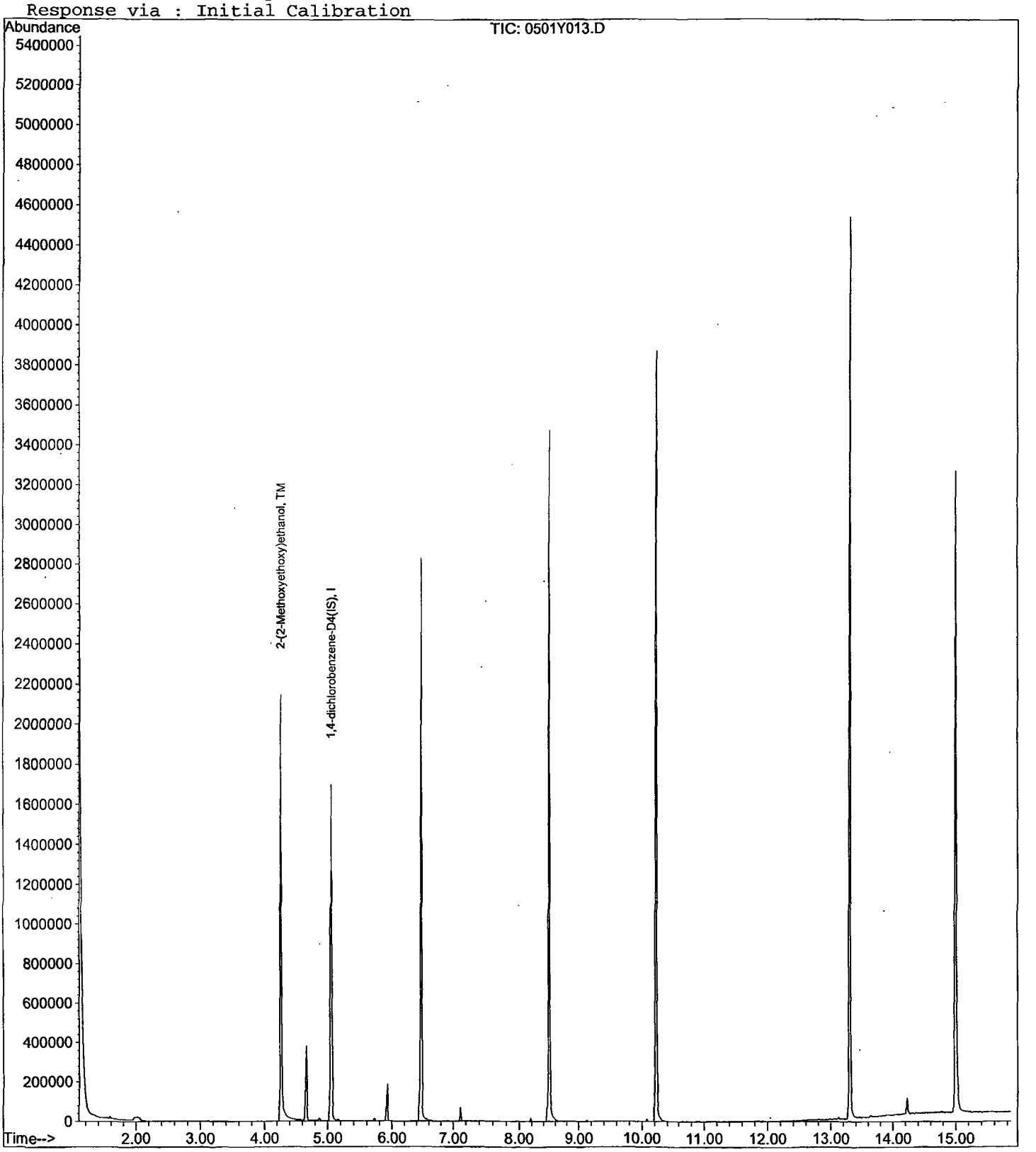
(#) = qualifier out of range (m) = manual integration
0501Y013.D YMEE0501.M Fri May 01 14:33:42 2020

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y013.D Vial: 13
Acq On : 1 May 20 13:50 Operator: MA,SS
Sample : SSug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 14:30 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/20/20
Instrument: Yoda
Initial Cal. Date: 05/01/20
Data File: 0501Y105.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TM	2-(2-Methoxyethoxy)ethanol	0.1574	0.1513	3.9	TM	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			3.9		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y105.D Vial: 5
Acq On : 20 Oct 20 10:57 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (1) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 11:03 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 14 11:16:28 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.38	152	176279	40.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.57	45	333371	480.72570	ppb	99

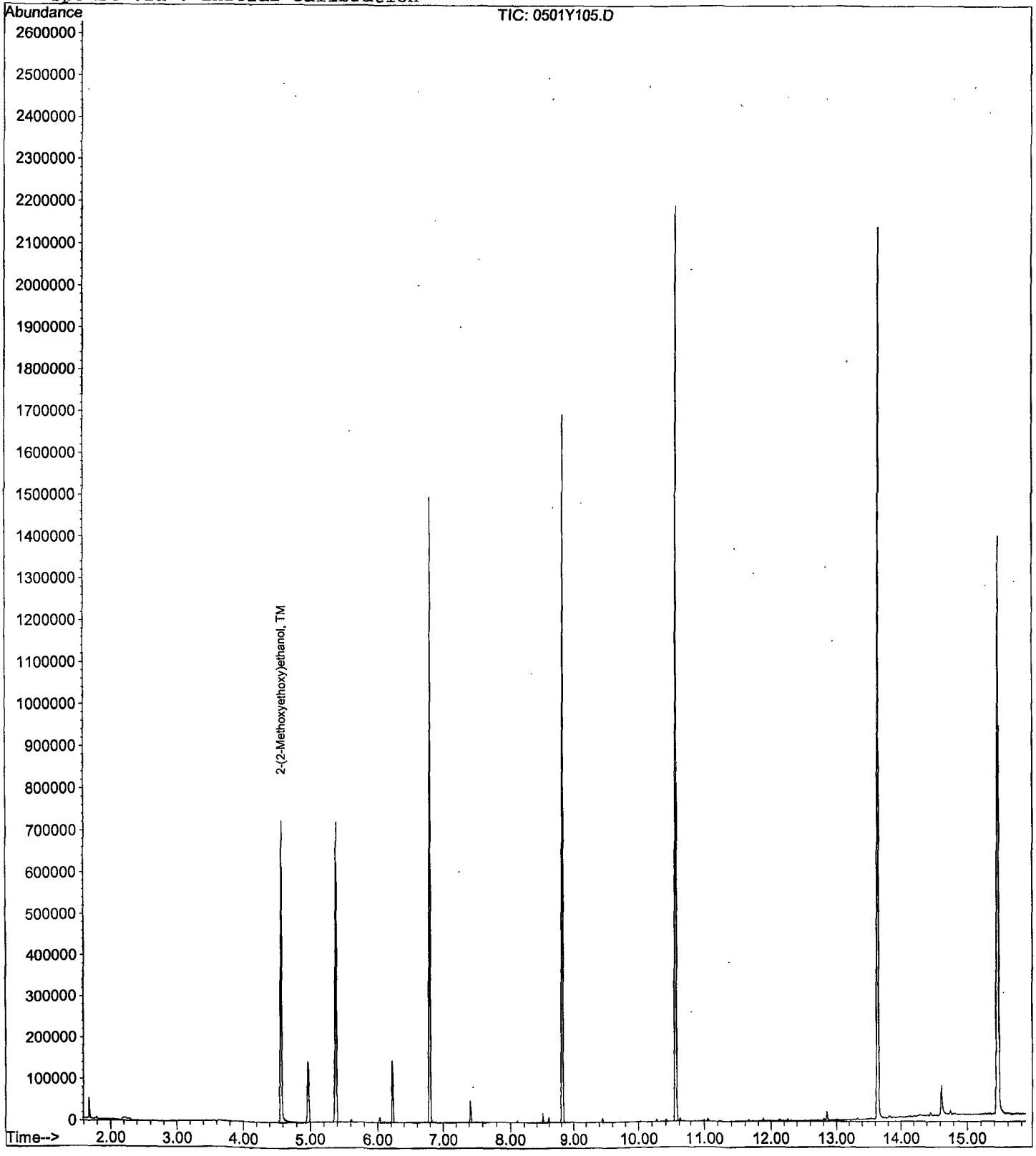
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y105.D Vial: 5
Acq On : 20 Oct 20 10:57 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (1) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 11:03 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 14 11:16:28 2020
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/20/20
Instrument: Yoda
Initial Cal. Date: 05/01/20
Data File: 0501Y127.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TM	2-(2-Methoxyethoxy)ethanol	0.1574	0.1674	6.4	TM	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			6.4		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y127.D Vial: 27
Acq On : 20 Oct 20 20:26 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:10 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.37	152	121864	40.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.56	45	254999	531.90387 ppb	100

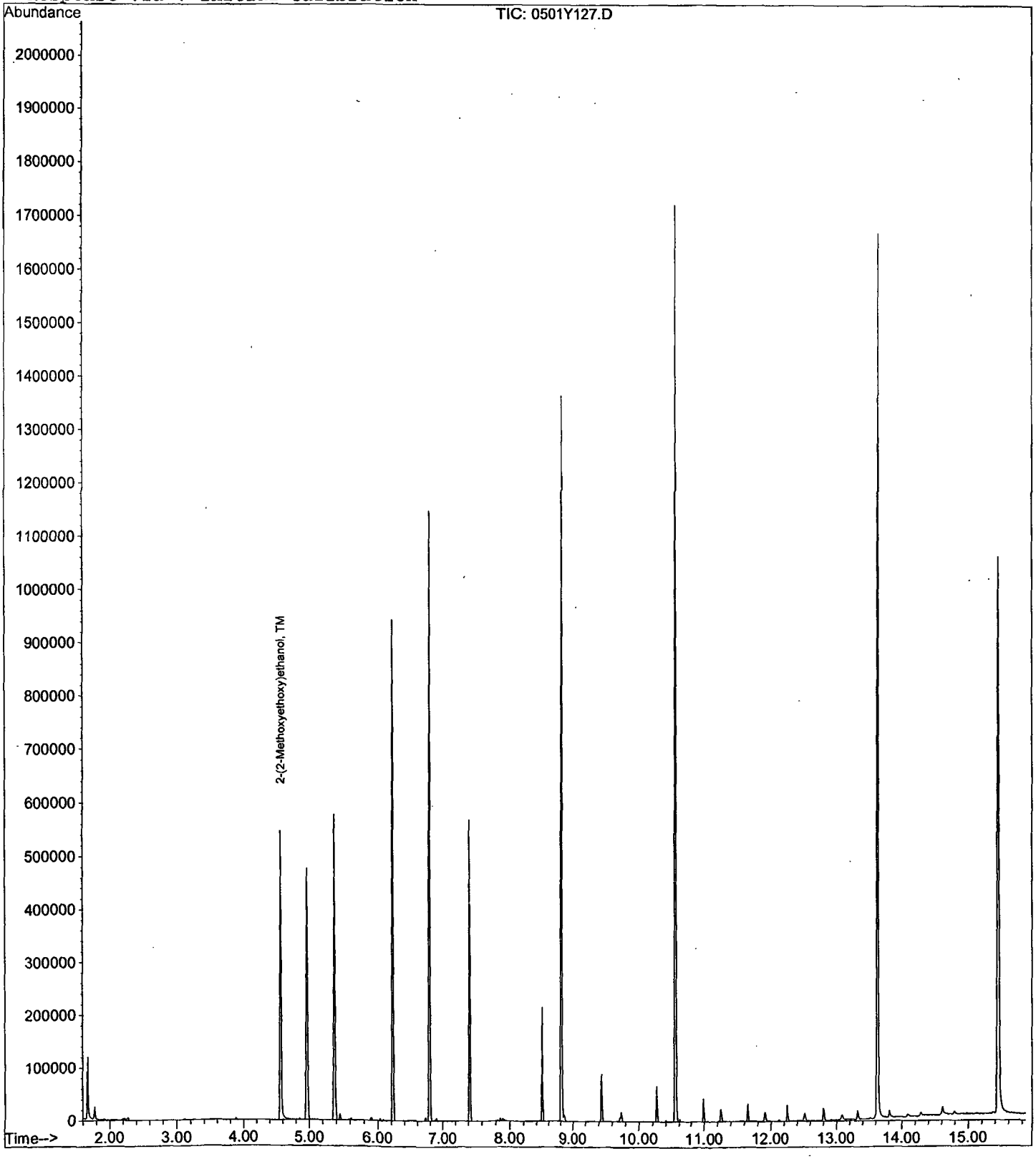
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y127.D Vial: 27
Acq On : 20 Oct 20 20:26 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:10 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y122.D Vial: 22
Acq On : 20 Oct 20 18:28 Operator: MA,SS
Sample : BA20184W12 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 20 14:12:00 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.36	152	119703	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds Qvalue

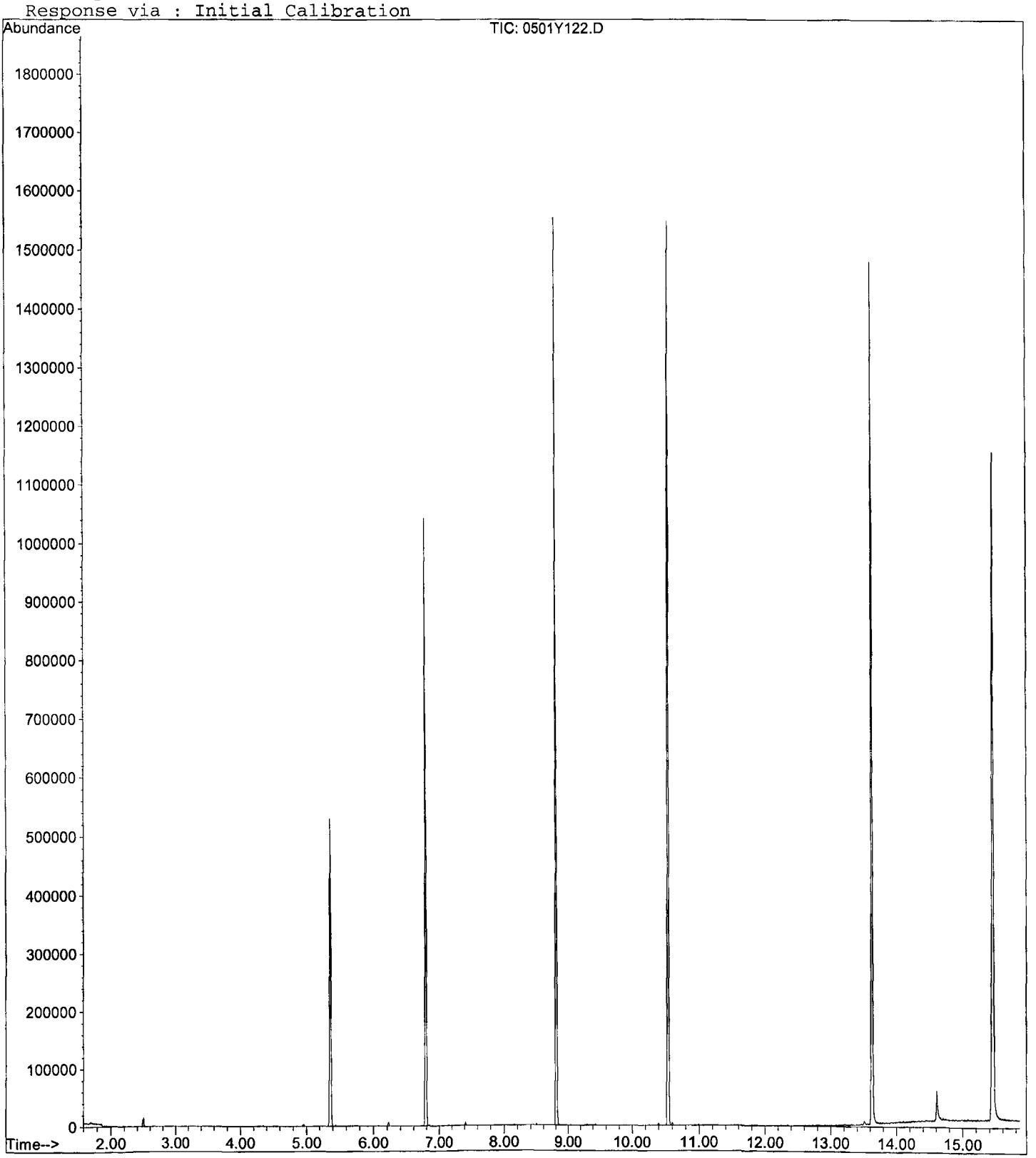
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y122.D Vial: 22
Acq On : 20 Oct 20 18:28 Operator: MA,SS
Sample : BA20184W12 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y123.D Vial: 23
Acq On : 20 Oct 20 18:52 Operator: MA,SS
Sample : BA20186W10 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 20 14:12:00 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.36	152	115945	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds Qvalue

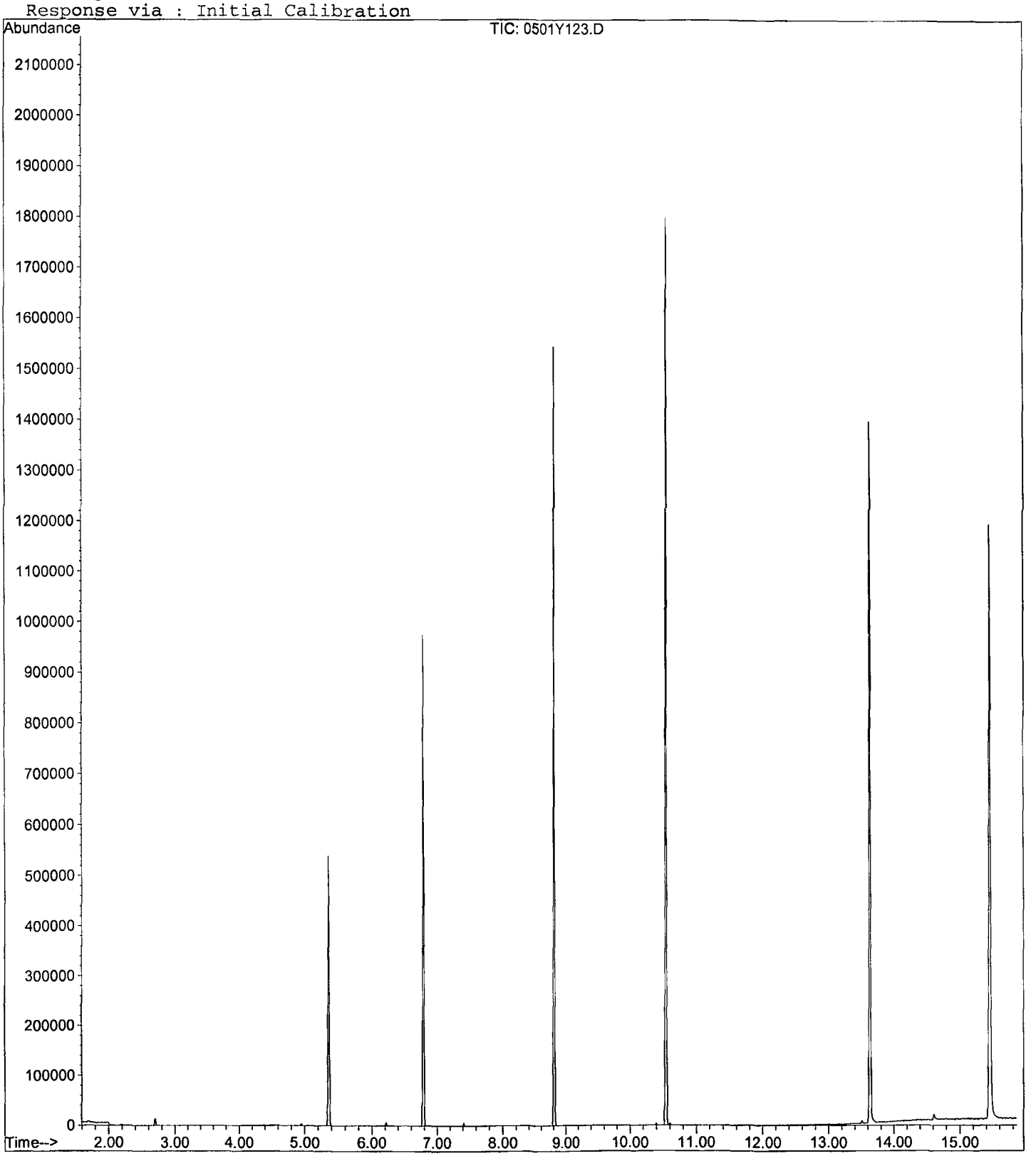
(#) = qualifier out of range (m) = manual integration
0501Y123.D YMEE0501.M Wed Oct 21 16:21:36 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y123.D Vial: 23
Acq On : 20 Oct 20 18:52 Operator: MA,SS
Sample : BA20186W10 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y124.D Vial: 24
Acq On : 20 Oct 20 19:15 Operator: MA,SS
Sample : BA20188W12 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 20 14:12:00 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.35	152	109180	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds Qvalue

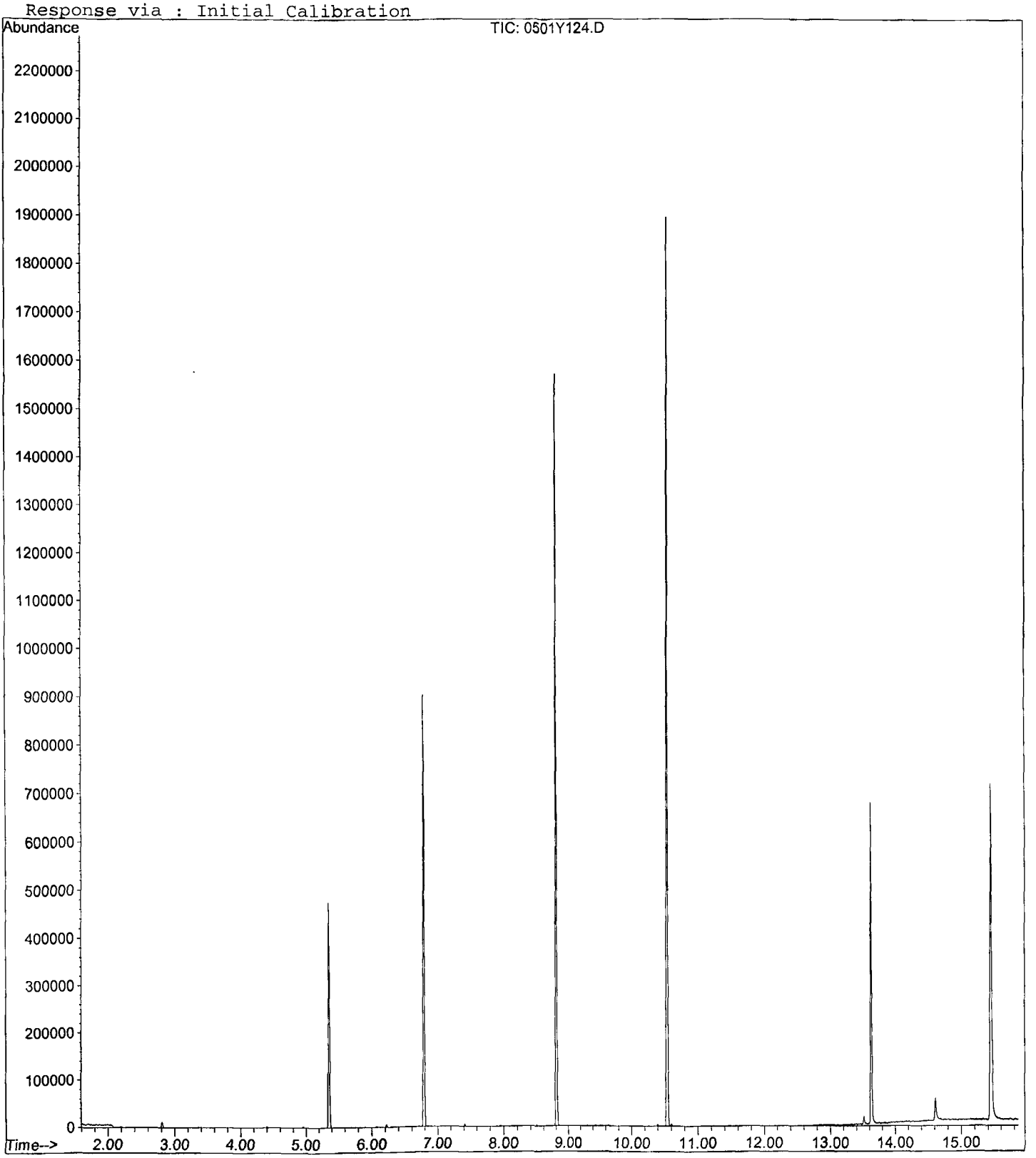
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y124.D Vial: 24
Acq On : 20 Oct 20 19:15 Operator: MA,SS
Sample : BA20188W12 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y125.D Vial: 25
Acq On : 20 Oct 20 19:39 Operator: MA,SS
Sample : BA20190W11 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 20 14:12:00 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.36	152	111243	40.00000	ppb	-0.01

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

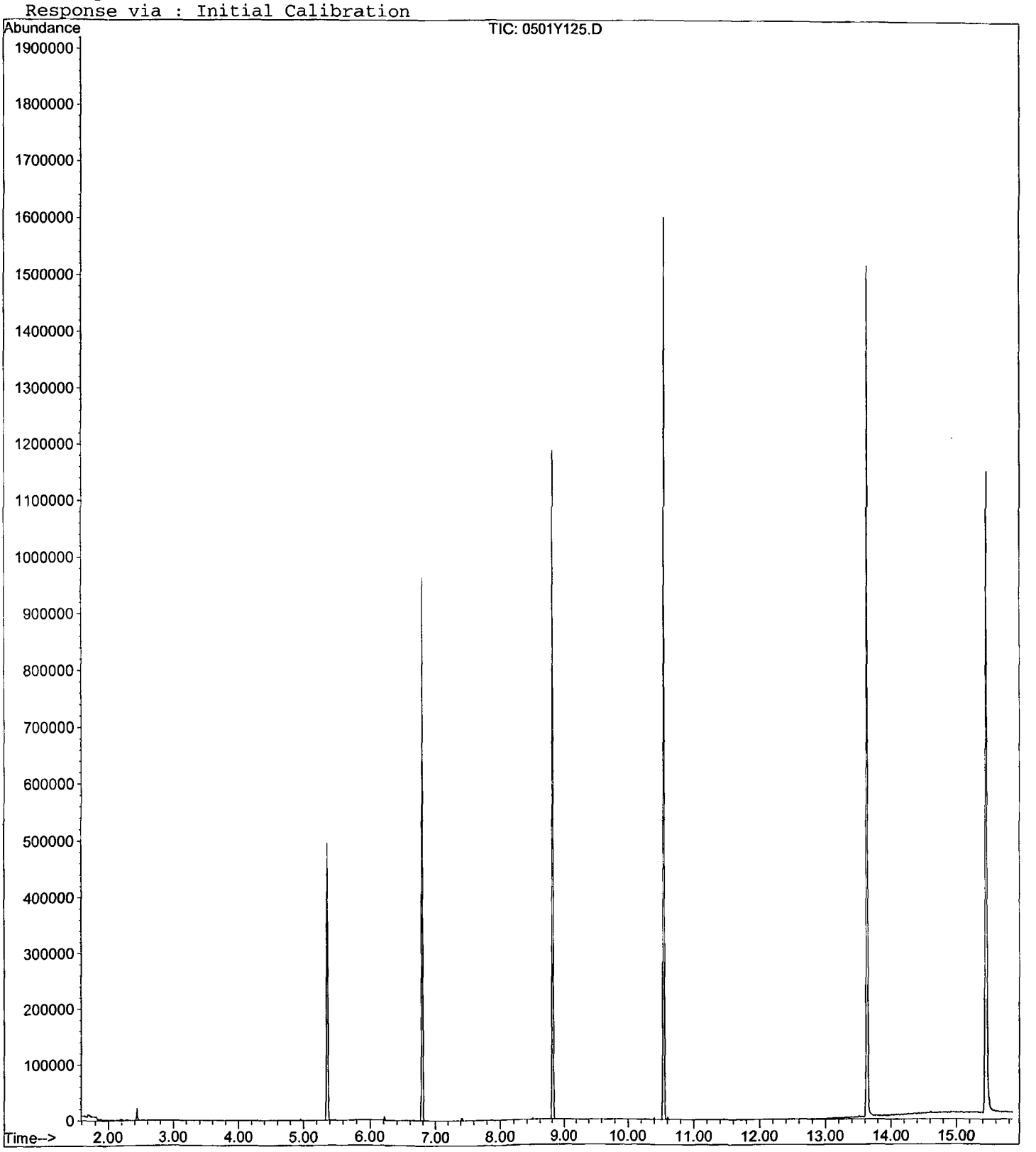
Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y125.D
Acq On : 20 Oct 20 19:39
Sample : BA20190W11 2/500
Misc :

Vial: 25
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Oct 21 9:07 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y106.D Vial: 6
Acq On : 20 Oct 20 11:40 Operator: MA,SS
Sample : 201019A BLK 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 11:41 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 14 11:16:28 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.36	152	114420	40.00000	ppb	-0.01

System Monitoring Compounds

Target Compounds Qvalue

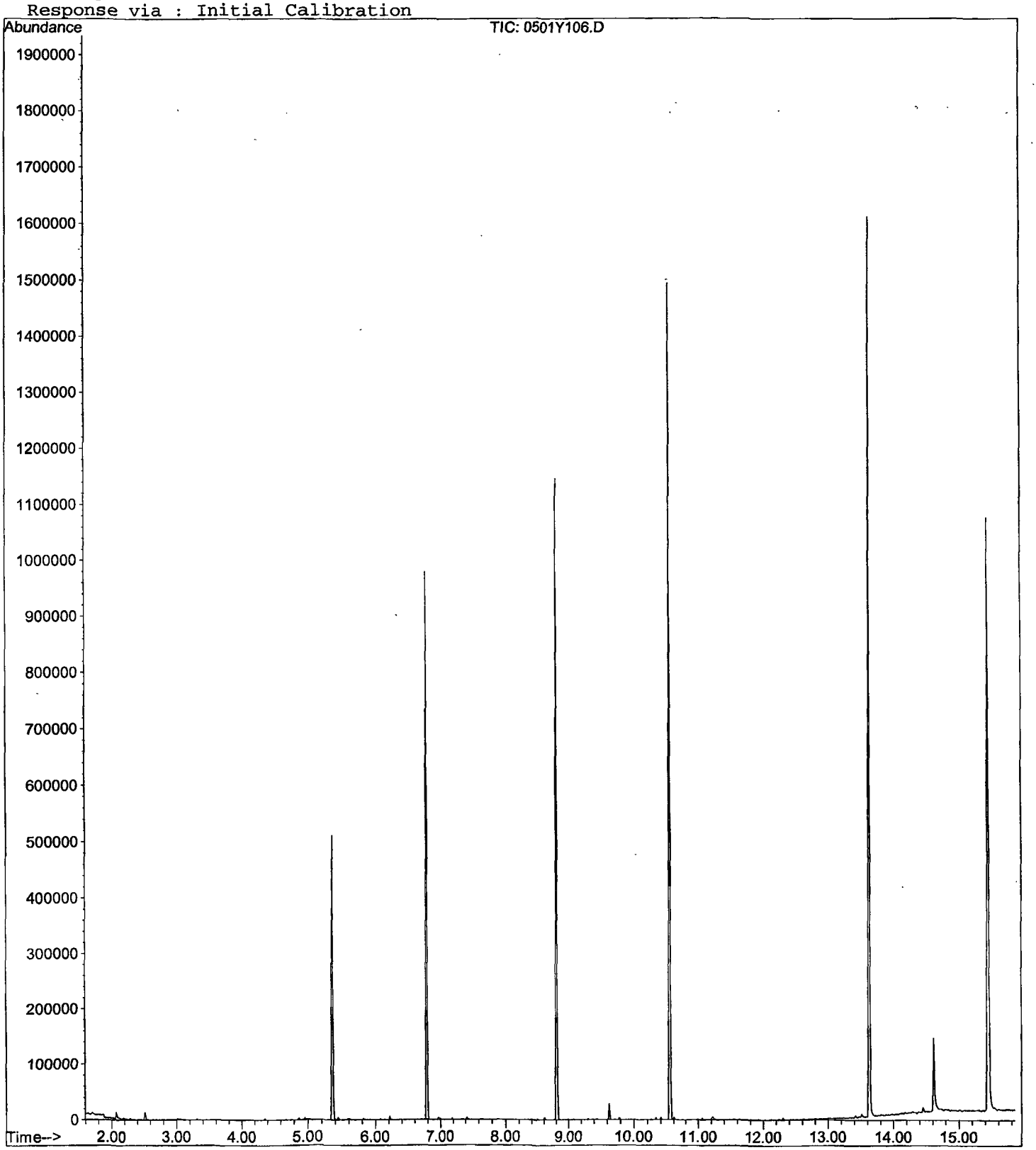
(#) = qualifier out of range (m) = manual integration
0501Y106.D YMEE0501.M Wed Oct 21 16:20:34 2020

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y106.D Vial: 6
Acq On : 20 Oct 20 11:40 Operator: MA,SS
Sample : 201019A BLK 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 11:41 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y114.D Vial: 14
Acq On : 20 Oct 20 15:17 Operator: MA,SS
Sample : 201019A LCS-1 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 15:12 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 20 14:12:00 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.36	152	181279	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.77	45	45520	63.83000	ppb	98

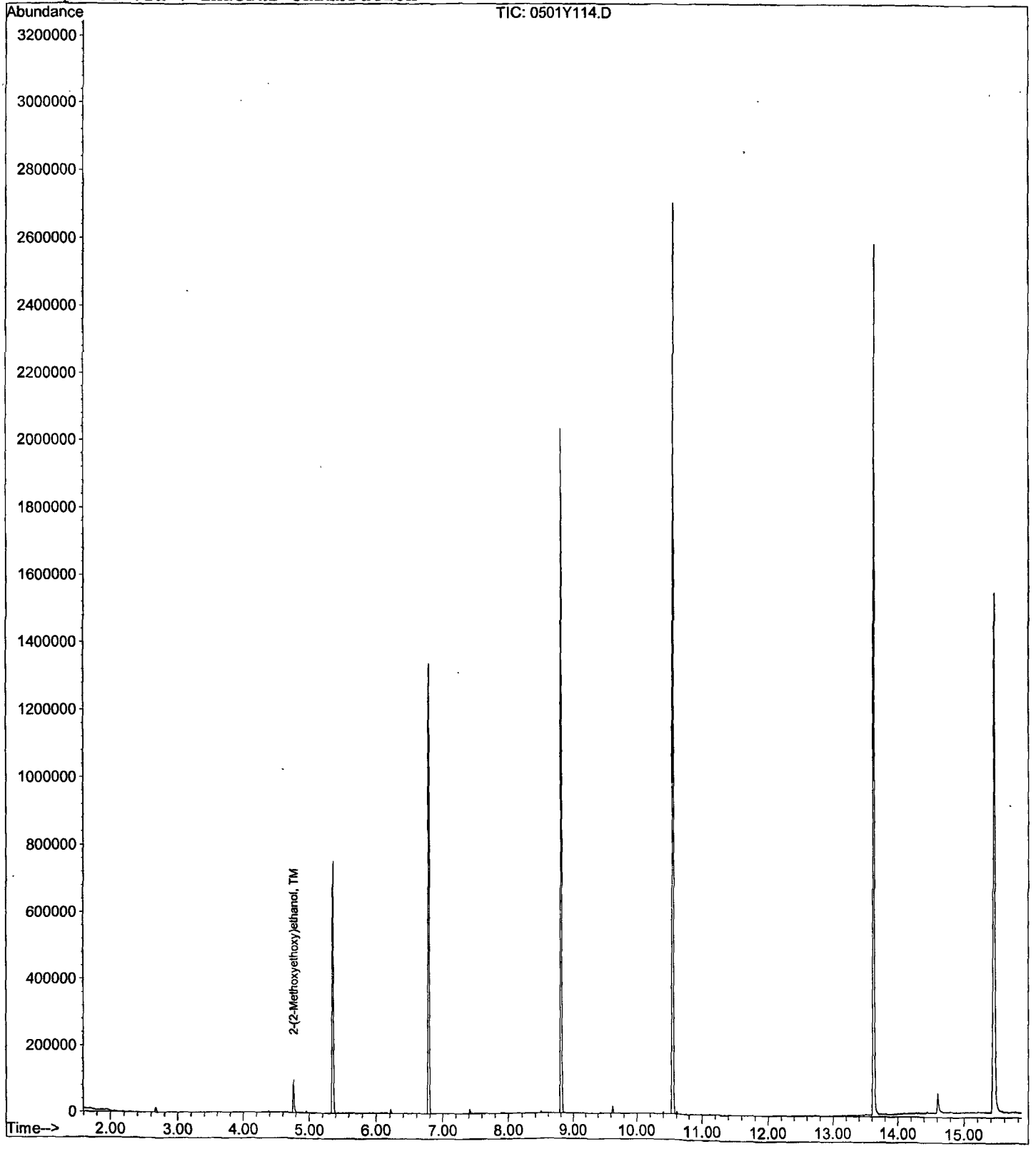
(#) = qualifier out of range (m) = manual integration
0501Y114.D YMEE0501.M Wed Oct 21 16:20:57 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y114.D Vial: 14
Acq On : 20 Oct 20 15:17 Operator: MA,SS
Sample : 201019A LCS-1 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 20 15:12 2020 Quant Results File: YMEE0501.RES

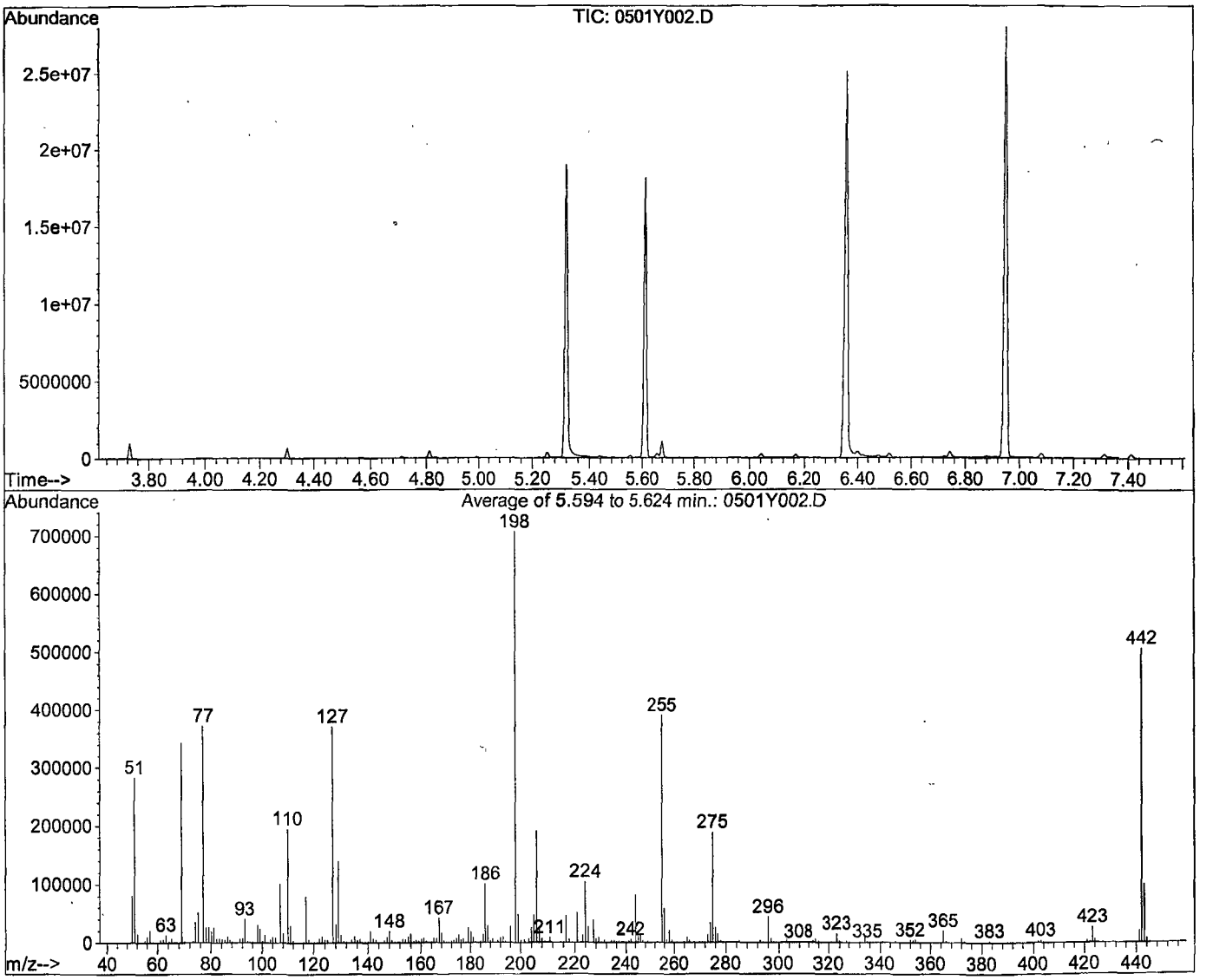
Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y200501M\0501Y002.D
Acq On : 1 May 20 9:23
Sample : SV TUNE 10/01/19
Misc : soil

Vial: 38
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C



Spectrum Information: Average of 5.594 to 5.624 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.1	283365	PASS
68	69	0.00	2	0.0	30	PASS
70	69	0.00	2	0.5	1711	PASS
127	198	10	80	52.5	370953	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	706767	PASS
199	198	5	9	6.8	48387	PASS
275	198	10	60	26.7	188525	PASS
365	198	1	100	2.8	20013	PASS
441	442	0.01	24	3.9	19955	PASS
442	198	50	500	71.6	506304	PASS
443	442	15	24	19.8	100283	PASS

Data File Name:	**0501Y002.D**
Data File Path:	**M:\YODA\DATA\Y200501M**
Operator:	**MA,SS**
Date Acquired:	**1 May 20 9:23**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/01/19**
Vial Number:	**38**
Instrument Name:	**Yoda**

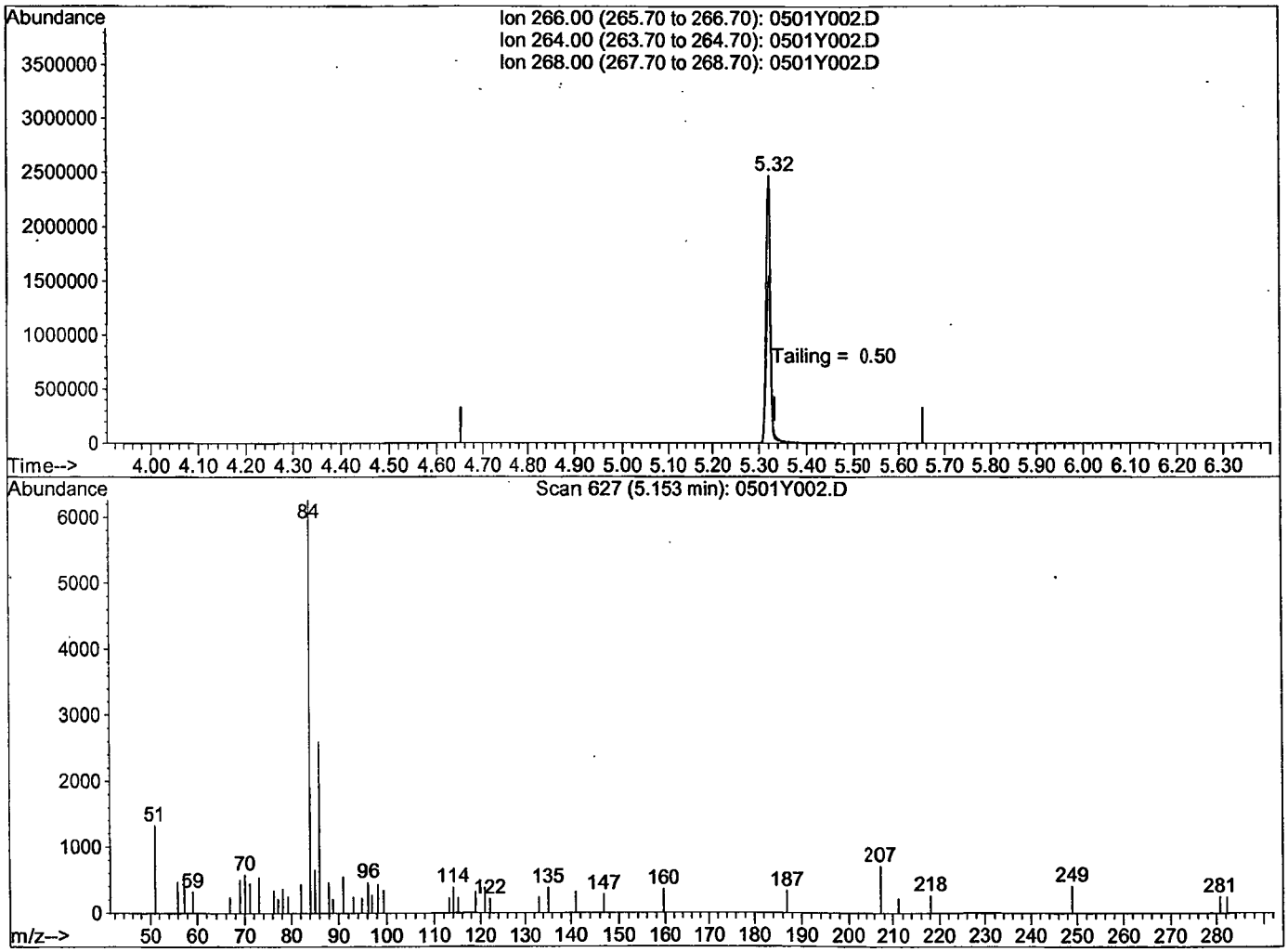
#	Name	Ret Time	Target Response
1)	DDT	6.95	212314000
2)	DDD	6.72	691986
3)	DDE	6.31	0

Breakdown **0.32**

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y002.D Vial: 38
Acq On : 1 May 20 9:23 Operator: MA,SS
Sample : SV TUNE 10/01/19 Inst : Yoda
Misc : soil Multiplr: 1.00
Quant Time: Aug 7 11:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 22 08:17:43 2020
Response via : Single Level Calibration



TIC: 0501Y002.D

(5) Pentachlorophenol

5.15min 0.0000

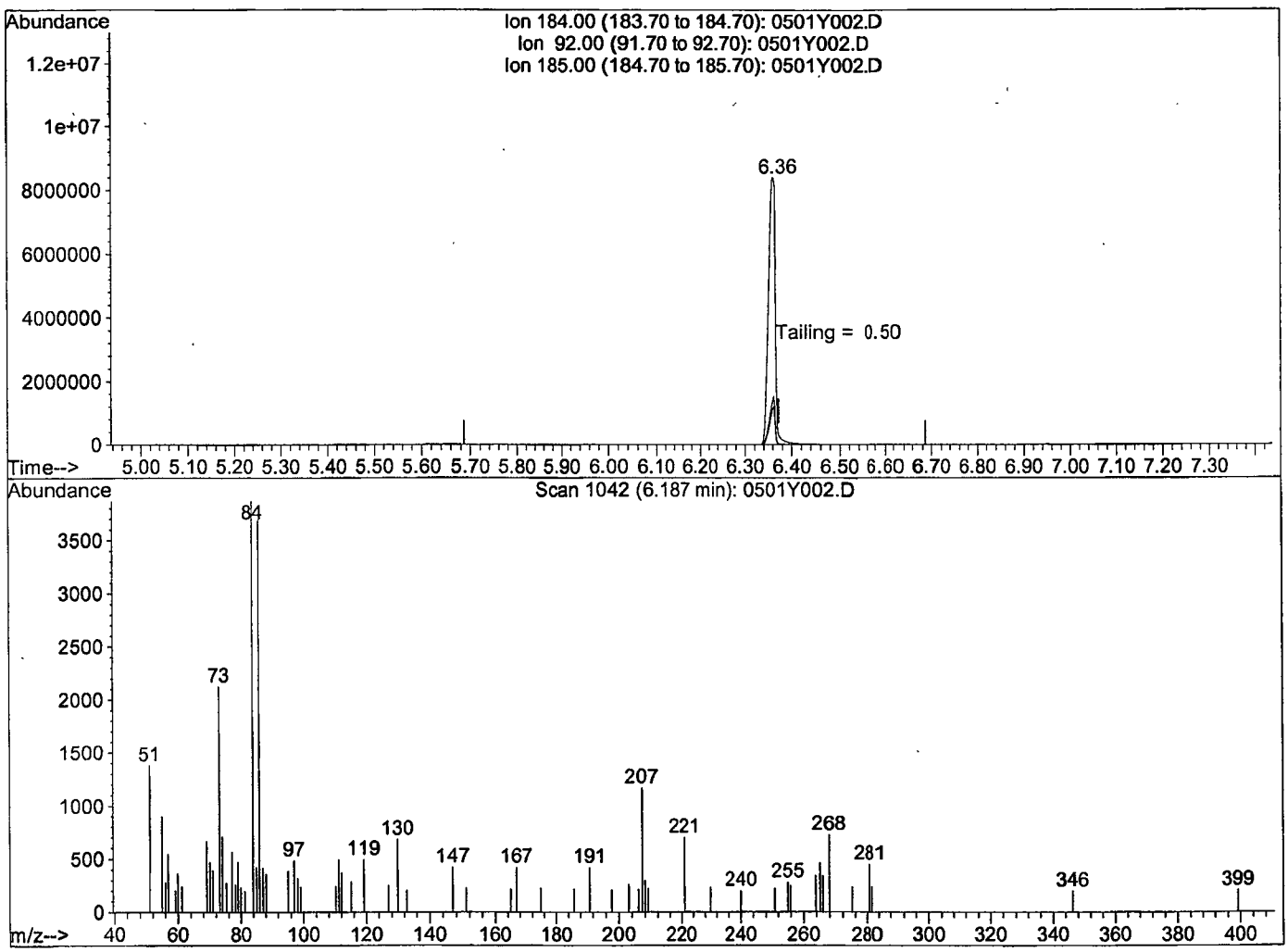
response 0

Ion	Exp%	Act%
266.00	100	0.00
264.00	63.90	0.00#
268.00	65.20	0.00#
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y002.D Vial: 38
Acq On : 1 May 20 9:23 Operator: MA,SS
Sample : SV TUNE 10/01/19 Inst : Yoda
Misc : soil Multiplr: 1.00
Quant Time: Aug 7 11:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 22 08:17:43 2020
Response via : Single Level Calibration



TIC: 0501Y002.D

(6) Benzidine

6.19min 0.0000

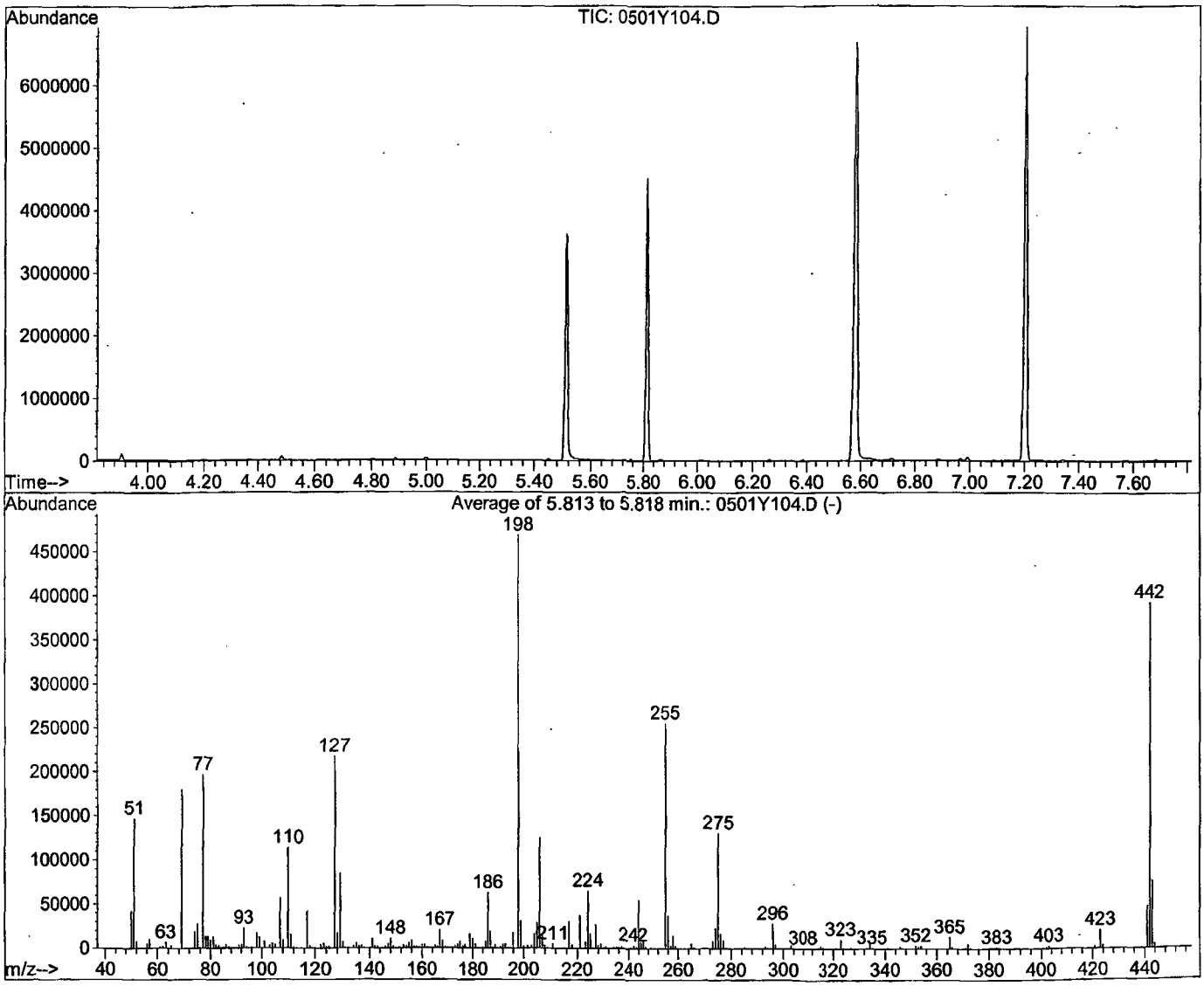
response 0

Ion	Exp%	Act%
184.00	100	0.00
92.00	10.00	0.00#
185.00	14.30	0.00#
0.00	0.00	0.00

DFTPP

Data File : M:\YODA\DATA\Y200501M\0501Y104.D Vial: 4
Acq On : 20 Oct 20 10:15 Operator: MA,SS
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 892, 893, 894; Background Corrected with Scan 883

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.4	146944	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.4	729	PASS
127	198	10	80	46.4	217408	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	468331	PASS
199	198	5	9	6.7	31184	PASS
275	198	10	60	27.9	130632	PASS
365	198	1	100	2.8	13214	PASS
441	442	0.01	24	12.2	47736	PASS
442	198	50	500	83.9	392768	PASS
443	442	15	24	19.3	75880	PASS

Data File Name:	**0501Y104.D**
Data File Path:	**M:\YODA\DATA\Y200501M**
Operator:	**MA,SS**
Date Acquired:	**20 Oct 2020 10:15**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**4**
Instrument Name:	**Yoda**

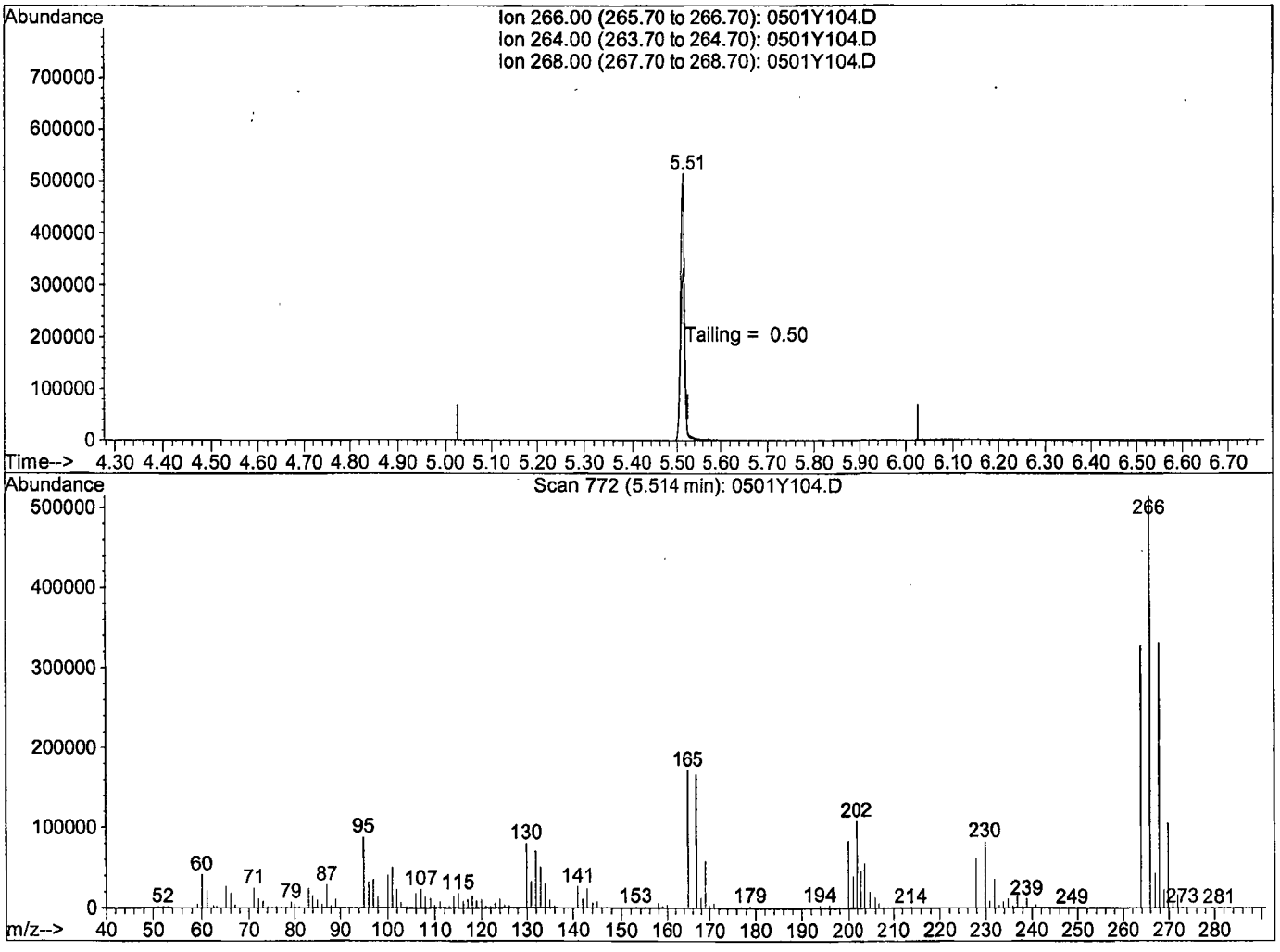
#	Name	Ret Time	Target Response
1)	DDT	7.26	49131900
2)	DDD	7.02	352113
3)	DDE	5.93	0

Breakdown **0.71**

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y104.D Vial: 4
Acq On : 20 Oct 20 10:15 Operator: MA,SS
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 20 10:17 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration



TIC: 0501Y104.D

(5) Pentachlorophenol

5.51min 0.0000

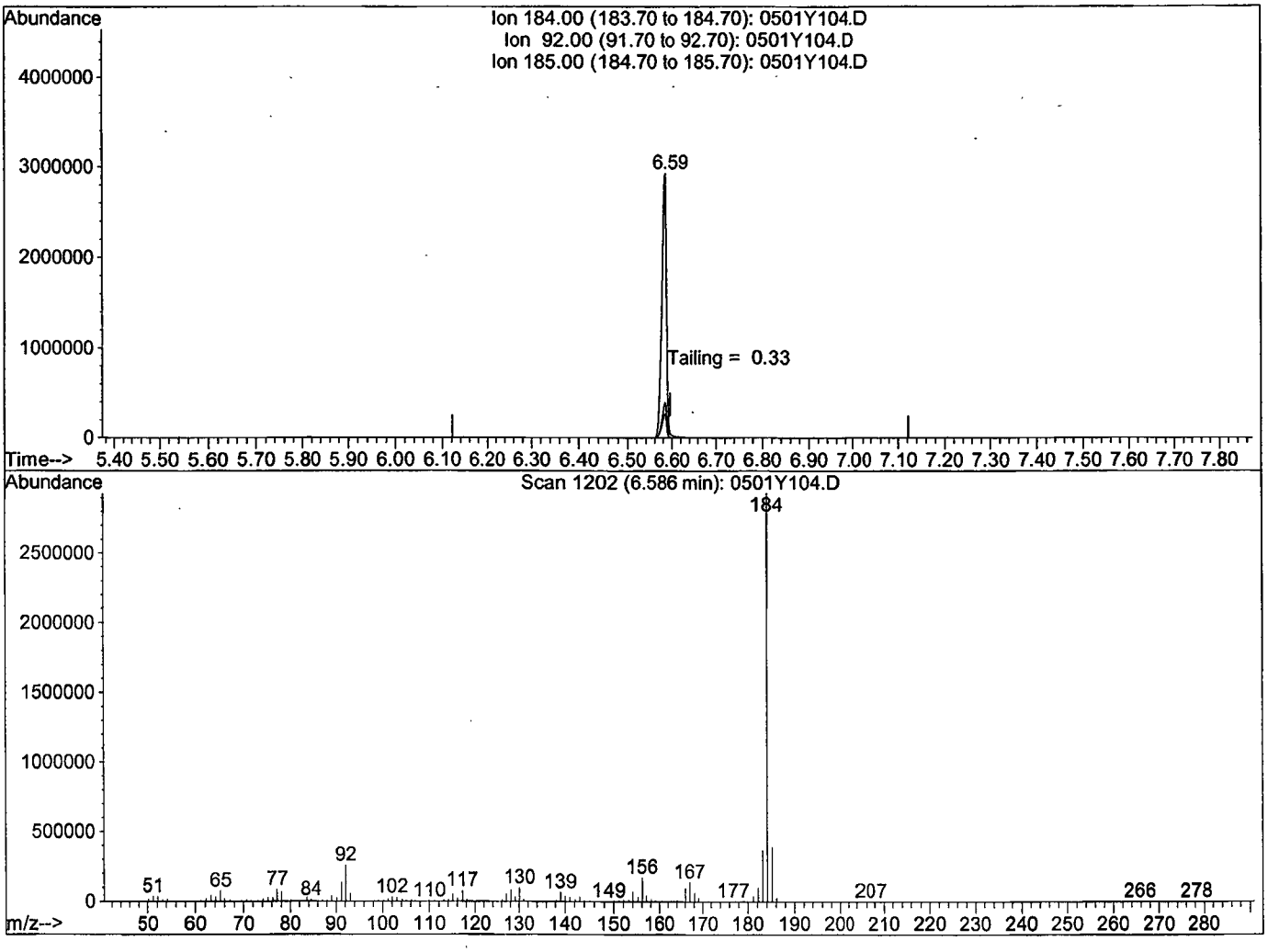
response 3372253

Ion	Exp%	Act%
266.00	100	100
264.00	63.10	61.56
268.00	65.40	62.84
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y104.D Vial: 4
Acq On : 20 Oct 20 10:15 Operator: MA,SS
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 20 10:17 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration



TIC: 0501Y104.D

(6) Benzidine

6.59min 0.0000

response 22878783

Ion	Exp%	Act%
184.00	100	100
92.00	8.50	9.22
185.00	13.80	13.71
0.00	0.00	0.00

Name of Final Standard MEE Curve **Prep'd By (Initials)** CD

Prep Date 05/01/20

Exp Date 11/06/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	5 uL	200uL	Methanol 195uL Lot# 235140	50 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	5 uL	100uL	Methanol 95uL Lot# 235140	100 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	10 uL	100uL	Methanol 90uL Lot# 235140	200 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	20 uL	100uL	Methanol 80 uL Lot# 235140	400 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	50 uL	200 uL	Methanol 150 uL Lot# 235140	500 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	30 uL	100uL	Methanol 70 uL Lot# 235140	600 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	40 uL	100uL	Methanol 60 uL Lot# 235140	800 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	50 uL	100uL	Methanol 50uL Lot# 235140	1000 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL			

Name of Final Standard MEE Second Source **Prep'd By (Initials)** MA

Prep Date 05/01/20

Exp Date 11/06/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	11/06/19	11/06/20	50 uL	200uL	Methanol 150uL Lot# 235140	500 ug/mL
SV Internal Standard	APPL	8277 Internal Standard	2000 ug/mL	03/03/20	03/03/21	4 uL			

Name of Final Standard	Diethylene Glycol
Prep Date	**11/05/19**
Exp Date	**11/05/20**

Prep'd By (Initials) **MA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Diethylene glycol methyl ether	AccuStandard	S-72273	2000 ug/mL	**218101558-39890**	**12/01/20**	1.0 mL	2 mL	**Methanol #208858**	1000 ug/mL

Given to Extraction to do **MEE M STD Stock** (used for ICAL) Final concentration 2000ug/L

Name of Final Standard 2MEE Second Source Stock **Prep'd By (Initials)** JP

Prep Date 10/28/19
Exp Date 10/28/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	**7079100 - 39417**	**07/31/22**	0.1022g	10 mL	MC #56258	10220 ug/mL

Given to Extraction to do **MEE SS** (used for ICAL SS)
0.097ml were spiked in 500ml of water and extracted on 04/29/19 . Final concentration is 2000ug/L

Name of Final Standard	8270 Internal Standard Ampules (2)	Prep'd By (Initials)	MA
Prep Date	11/20/19		
Exp Date	11/20/20		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
Semivolatile Internal Standard	Restek	31206	2000 ug/mL	AO157142-49871,872,873	07/31/25	3 mL	3 mL	NA	2000ug/mL

MWE2MEE

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	201019A	Extraction Method	MWE2MEE	Units	mL

Spiked ID 1	Diethylene Glycol 4/29/20 ex 12/1/20		Surrogate ID 1		
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/19/20 8:30	
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:		

pH1			Water Bath Temp 1 °C	
pH2			Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: DL **Date** 10/20/20 11:45:20 AM **Witnessed By:** CFM **Date** 10/20/20 11:45:28 AM

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201019A Blk				NA	NA equip	500	2	7	10/19/20 8:30	
2	201019A LCS-1		0.040	1	NA	NA equip	500	2	7	10/19/20 8:30	
3	BA20023	BA20023W12			NA	NA equip	500	2	7	10/19/20 8:30	93704
4	BA20025	BA20025W12			NA	NA equip	500	2	7	10/19/20 8:30	93704
5	BA20054 MS-1	BA20054W16	0.040	1	NA	NA equip	500	2	7	10/19/20 8:30	93719
6	BA20054 MSD-1	BA20054W19	0.040	1	NA	NA equip	500	2	7	10/19/20 8:30	93719
7	BA20054	BA20054W15			NA	NA equip	500	2	7	10/19/20 8:30	93719
8	BA20055	BA20055W05			NA	NA equip	500	2	7	10/19/20 8:30	93719
9	BA20057	BA20057W11			NA	NA equip	500	2	7	10/19/20 8:30	93719
10	BA20058	BA20058W06			NA	NA equip	500	2	7	10/19/20 8:30	93719
11	BA20060	BA20060W12			NA	NA equip	500	2	7	10/19/20 8:30	93719
12	BA20062	BA20062W10			NA	NA equip	500	2	7	10/19/20 8:30	93719
13	BA20064	BA20064W10			NA	NA equip	500	2	7	10/19/20 8:30	93719
14	BA20184	BA20184W12			NA	NA equip	500	2	7	10/19/20 8:30	93740
15	BA20186	BA20186W10			NA	NA equip	500	2	7	10/19/20 8:30	93740
16	BA20188	BA20188W12			NA	NA equip	500	2	7	10/19/20 8:30	93740

Solvent and Lot#	
ENVIRO-CLEAN CARTRIDGES	50193-E
PH Strip	HC904495
Di Water	10/19/20
Methanol:DCM 80:20 PREP	8/4/20

Extraction COC Transfer	
Extraction lab employee Initials	CFM
GC analyst's initials	MA
Date	10/20/20
Time	11:00
Refrigerator	GC_C

	Technician's Initials
Scanned By	CFM
Sample Preparation	DL
Extraction	DL
Concentration	DL/KY

Modified	10/19/20 7:46:55 AM

Reviewed By: MA **Date** 10/19/20

_MWE2MEE

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water		Extraction Set	201019A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 4/29/20 ex 12/1/20		Surrogate ID 1					
Spiked ID 2			Surrogate ID 2					
Spiked ID 3			Surrogate ID 3					
Spiked ID 4			Surrogate ID 4					
Spiked ID 5			Surrogate ID 5					
Spiked ID 6			Sufficient Vol for Matrix QC:	YES				
Spiked ID 7			Ext. Start Time:	10/19/20 8:30				
Spiked ID 8			Ext. End Time:					
			GC Requires Extract By:					
			pH1			Water Bath Temp 1 °C		
			pH2			Water Bath Temp 2 °C		
			pH3			Water Bath Temp 3 °C		

Spiked By: DL **Date** 10/20/20 11:45:20 AM **Witnessed By:** CFM **Date** 10/20/20 11:45:28 AM

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	BA20190	BA20190W11			NA	NA	500	2	7	10/19/20 8:30	93740
						equip					
18	BA20268	BA20268W12			NA	NA	500	2	7	10/19/20 8:30	93765
						equip					

Solvent and Lot#	
ENVIRO-CLEAN CARTRIDGES	50193-E
PH Strip	HC904495
Di Water	10/19/20
Methanol:DCM 80:20 PREP	8/4/20

Extraction COC Transfer	
Extraction lab employee Initials	CFM
GC analyst's initials	MA
Date	
Time	
Refrigerator	GC_C

	Technician's Initials
Scanned By	CFM
Sample Preparation	DL
Extraction	DL
Concentration	DL/KY

Modified	10/19/20 7:46:55 AM

Reviewed By: MA **Date** 10/19/20

Injection Log

Directory: M:\YODA\DATA\Y200501M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
38	0501Y002.D	1	SV TUNE 10/01/19	soil	1 May 20 9:23
39	0501Y003.D	1	50ug/ml MEE 05/01/20	soil	1 May 20 9:39
40	0501Y004.D	1	100ug/ml MEE 05/01/20	soil	1 May 20 10:03
42	0501Y006.D	1	200ug/ml MEE 05/01/20	soil	1 May 20 10:51
7	0501Y007.D	1	400ug/ml MEE 05/01/20	soil	1 May 20 11:24
8	0501Y008.D	1	500ug/ml MEE 05/01/20	soil	1 May 20 11:48
9	0501Y009.D	1	600ug/ml MEE 05/01/20	soil	1 May 20 12:13
10	0501Y010.D	1	800ug/ml MEE 05/01/20	soil	1 May 20 12:37
11	0501Y011.D	1	1000ug/ml MEE 05/01/20	soil	1 May 20 13:01
13	0501Y013.D	1	SSug/ml MEE 05/01/20	soil	1 May 20 13:50
4	0501Y104.D	1	SV TUNE 10/02/20		20 Oct 20 10:15
5	0501Y105.D	1	500ug/ml MEE 05/01/20 (1)		20 Oct 20 10:57
6	0501Y106.D	1	201019A BLK 2/500		20 Oct 20 11:40
14	0501Y114.D	1	201019A LCS-1 2/500		20 Oct 20 15:17
26	0501Y126.D	1	BA20268W12 2/500		20 Oct 20 20:02
27	0501Y127.D	1	500ug/ml MEE 05/01/20 (2)		20 Oct 20 20:26

ORGANICS

Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/19/20
Matrix: Water Instrument: ZEUS Initials: CH

			1019Z14 D	1019Z15 D	1019Z16 D	1019Z17 D	1019Z18 D	1019Z19 D	1019Z20 D	1019Z21 D	1019Z22 D							
		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	TM	Chlorotrifluoroethene													TM			
3	TM	Dichlorodifluoromethane	0.0361	0.0591	0.0578	0.0495	0.0514	0.0548	0.0490	0.0465	0.0453		0.05	14	TM			
4	TM	Freon 114	0.0675	0.0604	0.0544	0.0604	0.0515	0.0531	0.0419	0.0491	0.0452		0.05	15	TM			
5	TM**	Chloromethane		0.2235	0.1955	0.1983	0.1807	0.1861	0.1729	0.1714	0.1602		0.19	11	TM**			
6	TM*	Vinyl chloride	0.1384	0.1637	0.1394	0.1376	0.1369	0.1418	0.1401	0.1418	0.1340		0.14	6.1	TM*			
7		Butane																
8	TM	2-Chloro-1,1,1-trifluoroethane													TM			
9	TML	Bromomethane		0.0676	0.0643	0.0572	0.0509	0.0498	0.0390	0.0378	0.0351		0.05	24	TM	0.998		
10	TM	Chloroethane			0.0511	0.0478	0.0548	0.0550	0.0457	0.0445	0.0392		0.05	12	TM			
11	TML	Dichlorofluoromethane		0.2481	0.2397	0.2329	0.2172	0.2177	0.1654	0.1677			0.21	16	TM	0.994		
12	TM	Trichlorofluoromethane	0.2112	0.2478	0.2395	0.2262	0.2196	0.2270	0.1948	0.1922			0.22	9.0	TM			
13	TM	Pentane													TM			
14	TM	Diethyl ether													TM			
15	TM	1,2 Dichlorotrifluoroethane													TM			
16	TM	Acrolein	0.0132	0.0136	0.0142	0.0131	0.0132	0.0134	0.0141	0.0136	0.0113		0.01	6.4	TM			
17	TM	Acetone	0.0518	0.0539	0.0505	0.0474	0.0453	0.0450	0.0478	0.0446	0.0426		0.05	7.9	TM			
18	TM	Freon-113	0.1240	0.1434	0.1424	0.1345	0.1273	0.1352	0.1207	0.1283	0.1241		0.13	6.3	TM			
19	TM*	1,1-DCE	0.1853	0.2114	0.2028	0.1999	0.1984	0.2059	0.1834	0.1906	0.1878		0.20	5.0	TM*			
20	TM	2-Propanol													TM			
21	TM	Acetonitrile	0.0056	0.0059	0.0058	0.0052	0.0050	0.0050	0.0042	0.0038			0.01	15	TM			
22	TML	t-Butanol	0.0042	0.0055	0.0054	0.0052	0.0051	0.0053	0.0053				0.01	8.4	TM	0.998		
23	TM	Methyl Acetate	0.1205	0.1244	0.1247	0.1123	0.1041	0.1120	0.1134	0.1085	0.1123		0.11	6.2	TM			
24	TML	Iodomethane	0.0760	0.0808	0.0717	0.0741	0.0930	0.1159	0.1068	0.1392	0.1566		0.10	30	TM	0.996		
25	TM	Acrylonitrile	0.0321	0.0511	0.0492	0.0433	0.0458	0.0484	0.0483	0.0469	0.0465		0.05	12	TM			
26	TM	Methylene chloride	0.1733	0.1795	0.1674	0.1461	0.1470	0.1511	0.1370	0.1406	0.1372		0.15	10	TM			
27	TM	Carbon disulfide	0.2169	0.2135	0.1859	0.1969	0.1886	0.2025	0.1828	0.2047	0.1912		0.20	6.1	TM			
28	TM	Methyl t-butyl ether (MtBE)	0.2668	0.2899	0.3000	0.2869	0.2825	0.3107	0.3059	0.3132	0.3068		0.30	5.2	TM			
29	TM	Trans-1,2-DCE	0.1697	0.1930	0.2018	0.1905	0.1833	0.1917	0.1773	0.1796	0.1743		0.18	5.6	TM			
30	TM	Hexane													TM			
31	TM	Diisopropyl Ether	0.3335	0.3611	0.3681	0.3621	0.3765	0.4169	0.4077	0.4191	0.4144		0.38	8.1	TM			
32	TM**	2,2-Dichloro-1,1,1-trifluoroethane													TM**			
33	TM**	1,1-DCA	0.2279	0.2317	0.2306	0.2203	0.2172	0.2313	0.2128	0.2163	0.2125		0.22	3.6	TM**			
34	TM	Vinyl Acetate	0.1723	0.1873	0.1858	0.1888	0.1503	0.1810	0.1826	0.2019	0.1765		0.18	7.8	TM			
35	TM	Ethyl tert Butyl Ether	0.2745	0.2792	0.3004	0.2921	0.3111	0.3416	0.3404	0.3534	0.3567		0.32	10	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/19/20
Matrix: Water Instrument: ZEUS
Initials: CH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
36	TM	MEK (2-Butanone)	0.0587	0.0592	0.0627	0.0590	0.0600	0.0632	0.0731	0.0690	0.0685		0.06	8.2	TM			
37	TM	Cis-1,2-DCE	0.2084	0.2210	0.2083	0.2118	0.2069	0.2146	0.1972	0.2027	0.1911		0.21	4.3	TM			
38	TM	2,2-Dichloropropane	0.1812	0.1808	0.1789	0.1738	0.1757	0.1841	0.1715	0.1781	0.1712		0.18	2.5	TM			
39	TM	2-Methylpentane													TM			
40	TM	3-Methylpentane													TM			
41	TM*	Chloroform	0.2132	0.2480	0.2419	0.2315	0.2292	0.2380	0.2181	0.2203	0.2114		0.23	5.7	TM*			
42	TM	Bromochloromethane	0.1136	0.1207	0.1155	0.1157	0.1141	0.1200	0.1085	0.1103	0.1054		0.11	4.4	TM			
43	S	Dibromofluoromethane(S)	0.2106	0.2246	0.2631	0.2619	0.2860	0.2869	0.2812	0.2793	0.2638		0.26	10	S			
44	TM	1,1,1-TCA	0.1858	0.2028	0.2072	0.1964	0.2026	0.2164	0.1955	0.2005	0.1926		0.20	4.4	TM			
45	TM	Cyclohexane	0.2086	0.2151	0.2177	0.2189	0.2094	0.2333	0.2132	0.2273	0.2227		0.22	3.7	TM			
46	TM	1,1-Dichloropropene	0.1605	0.1665	0.1718	0.1635	0.1745	0.1845	0.1693	0.1730	0.1629		0.17	4.4	TM			
47	TM	2,2,4-Trimethylpentane	0.3736	0.4161	0.4309	0.4149	0.4100	0.4726	0.4454	0.4904	0.4868		0.44	9.0	TM			
48	S	1,2-DCA-D4(S)	0.2333	0.2390	0.2855	0.2840	0.3055	0.3057	0.2975	0.2982	0.2787		0.28	9.6	S			
49	TM	Carbon Tetrachloride	0.1555	0.1838	0.1659	0.1727	0.1721	0.1879	0.1664	0.1769	0.1723		0.17	5.6	TM			
50	TM	Tert Amyl Methyl Ether	0.2455	0.2262	0.2614	0.2410	0.2577	0.2864	0.2964	0.3057	0.3057		0.27	11	TM			
51	TM	Methylcyclopentane	0.0178	0.0229	0.0203	0.0234	0.0211	0.0216	0.0194	0.0180	0.0167		0.02	12	TM			
52	TM	1,2-DCA	0.1842	0.2040	0.1925	0.1829	0.1753	0.1851	0.1646	0.1653	0.1558		0.18	8.5	TM			
53	TM	Benzene	0.5180	0.5391	0.5407	0.5282	0.5218	0.5476	0 5059	0.5056	0.4649		0.52	4.8	TM			
54	TM	TCE	0.1627	0.1721	0.1590	0 1599	0.1583	0.1706	0.1602	0.1611	0.1557		0.16	3.4	TM			
55	TM	2-Pentanone		0.0813	0.0911	0.0848	0.0903	0.0966	0.1143	0.1079	0.1097		0.10	13	TM			
56	TM*	1,2-Dichloropropane	0.1222	0.1141	0.1275	0.1232	0.1223	0.1273	0.1178	0.1185	0.1103		0.12	4.8	TM*			
57	TM	Bromodichloromethane	0.1263	0.1391	0.1451	0.1384	0.1429	0.1516	0.1459	0.1535	0.1543		0.14	6.2	TM			
58	TM	Methyl Cyclohexane	0.1840	0.2275	0.2302	0.2226	0.2147	0.2385	0.2167	0.2283	0.2119		0.22	7.2	TM			
59	TM	Dibromomethane	0.0891	0.0946	0.0953	0.0918	0.0912	0.0979	0.0896	0.0924	0.0905		0.09	3.1	TM			
60	TM	MIBK (methyl isobutyl ketone	0.0914	0.0990	0.1095	0.1057	0.1088	0.1167	0.1332	0.1299	0.1327		0.11	13	TM			
61	TM	1-Bromo-2-chloroethane	0.0180	0.0198	0.0233	0.0209	0.0212	0.0226	0.0220	0.0219	0.0200		0.02	7.7	TM			
62	TM	2-Chloroethyl vinyl ether	0.0458	0.0457	0.0525	0.0511	0.0546	0.0588	0.0574	0.0615	0.0622		0.05	11	TM			
63	TM	Cis-1,3-Dichloropropene	0.1546	0.1635	0.1691	0 1631	0.1756	0.1905	0.1873	0.1969	0.1955		0.18	8.9	TM			
64	TM*	Toluene	0.5455	0.5366	0.5572	0.5587	0.5468	0.5818	0.5508	0.5560	0.5205		0.55	3.1	TM*			
65	TM	Trans-1,3-Dichloropropene	0.1216	0.1222	0.1329	0.1291	0.1421	0.1569	0 1591	0.1683	0.1689		0.14	13	TM			
66	TM	1,1,2-TCA	0.1024	0.1117	0.1189	0.1034	0.1042	0.1132	0.1099	0.1122	0.1084		0.11	4.9	TM			
67	TM	2-Hexanone	0.0590	0.0655	0.0741	0.0710	0.0746	0.0785	0.0932	0.0886	0.0895		0.08	15	TM			
68	I	Chlorobenzene-D5 (IS)																
69	S	Toluene-D8(S)	1.027	1.037	1.253	1.263	1.359	1.370	1.329	1.346	1.223		1.2	11	S			
70	TM	1,2-EDB	0.1423	0.1427	0.1504	0.1458	0.1557	0.1634	0.1654	0.1688	0.1703		0.16	7.2	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/19/20
Matrix: Water Instrument: ZEUS Initials: CH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
71	TM	Tetrachloroethene	0.2122	0.2316	0.2292	0.2215	0.2172	0.2328	0.2173	0.2207	0.2112		0.22	3.6	TM			
72	TM	1-Chlorohexane		0.3324	0.2770	0.2456	0.2360	0.2509	0.2360	0.2428	0.2317		0.26	13	TM			
73	TM	1,1,1,2-Tetrachloroethane	0.1219	0.1389	0.1492	0.1404	0.1563	0.1771	0.1714	0.1808	0.1834		0.16	14	TM			
74	TM	m&p-Xylene	0.5360	0.5779	0.5999	0.6075	0.6403	0.6896	0.6359	0.6312	0.5680		0.61	7.5	TM			
75	TM	o-Xylene	0.5495	0.5495	0.5904	0.5886	0.6202	0.6856	0.6435	0.6437	0.6030		0.61	7.4	TM			
76	TM	Styrene		0.3640	0.3993	0.4114	0.4760	0.5356	0.5163	0.5248	0.4889		0.46	14	TM			
77	S	4-Bromofluorobenzene(S)	0.3569	0.3563	0.4527	0.4521	0.5020	0.5067	0.5016	0.5094	0 4908		0.46	13	S			
78	TM	1,3-Dichloropropane	0.2383	0.2361	0.2554	0.2373	0.2433	0 2612	0.2481	0.2519	0.2397		0.25	3.6	TM			
79	TM	Dibromochloromethane	0.1281	0.1424	0.1354	0.1322	0.1413	0.1616	0.1616	0.1756	0.1854		0.15	13	TM			
80	TM**	Chlorobenzene	0.5401	0.5383	0.5410	0.5260	0.5108	0.5398	0.5010	0.5013	0.4627		0.52	5.1	TM**			
81	TM*	Ethylbenzene	0.7407	0.8075	0.8046	0.7852	0.8192	0.8816	0.8312	0.8504	0.8181		0.82	4.9	TM*			
82	TM**L	Bromoform		0.0697	0.0781	0.0776	0.0843	0.0993	0.1081	0.1204	0.1348		0.10	24	TM**	0.998		
83	I	1,4-Dichlorobenzene-D (IS)																
84	TM	Isopropylbenzene	1.088	1.194	1.229	1.274	1.386	1.562	1.535	1.600	1.633		1.4	14	TM			
85	TM**	1,1,2,2-Tetrachloroethane	0.2537	0.2740	0.2658	0.2674	0.2873	0.3270	0.3487	0.3523	0.3569		0.30	14	TM**			
86	TM	1,2,3-Trichloropropane	0.0976	0.0955	0.1039	0.0983	0.1085	0.1192	0.1258	0.1264	0.1347		0.11	13	TM			
87	TML	t-1,4-Dichloro-2-Butene			0.0705	0.0633	0 0748	0.0856	0.0946	0.0988	0.1106		0.09	20	TM	0.998		
88	TM	Bromobenzene	0.6198	0.6030	0.6307	0.5809	0.6076	0.6587	0.6544	0.6702	0.7004		0.64	5.9	TM			
89	TM	n-Propylbenzene	1.374	1.437	1.558	1.562	1.730	1.902	1.826	1.886	1.916		1.7	12	TM			
90	TM	4-Ethyltoluene	1.145	1.124	1.304	1.369	1.495	1.645	1.567	1.622	1.639		1.4	14	TM			
91	TM	2-Chlorotoluene	1.020	1.071	1.139	1.001	1.177	1.265	1.230	1.254	1.283		1.2	9.3	TM			
92	TM	1,3,5-Trimethylbenzene		0.9505	1.095	1.160	1.267	1.405	1.322	1.341	1.294		1.2	12	TM			
93	TM	4-Chlorotoluene	1.020	1.056	1.173	1.194	1.219	1.308	1.236	1.239	1.204		1.2	7.7	TM			
94	TM	Tert-Butylbenzene	0.8851	0.8464	0.9627	0.9702	1.063	1.189	1.159	1.224	1.243		1.1	14	TM			
95	TML	1,2,4-Trimethylbenzene	0.8395	0.8847	1.021	1.123	1.224	1.386	1.351	1.394	1.422		1.2	19	TM	1.000		
96	TM	Sec-Butylbenzene		1.298	1.426	1.469	1.661	1.820	1.764	1.855	1.854		1.6	13	TM			
97	TM	p-Isopropyltoluene	1.045	1.163	1.202	1.265	1.412	1.561	1.502	1.552	1.557		1.4	14	TM			
98	TML	Benzyl Chloride		0.3657	0.3757	0.3833	0.4192	0.5135	0 5916	0.6413	0.7333		0.50	28	TM	0.997		
99	TM	1,3-DCB	0.7540	0.7371	0.7770	0.7744	0.7727	0.8245	0.7881	0.8113	0.8317		0.79	4.0	TM			
100	TM	1,4-DCB	0.8588	0 8168	0.8585	0.7993	0.7933	0.8342	0.7938	0.8094	0.8260		0.82	3.1	TM			
101	TM	n-Butylbenzene		0.9378	1.064	1.081	1.251	1.400	1.379	1.426	1.382		1.2	15	TM			
102	TM	1,2-DCB	0.6828	0 6882	0.6989	0.6884	0.7064	0.7576	0.7234	0.7307	0.6999		0.71	3.4	TM			
103	TML	Hexachloroethane			0.1413	0.1357	0.1471	0.1718	0.1913	0.2131	0.2576		0.18	25	TM	0.995		
104	TML	1,2-Dibromo-3-chloropropane			0.0605	0.0497	0.0619	0.0693	0.0828	0.0878	0.1022		0.07	25	TM	0.997		
105	TM	1,2,4-Trichlorobenzene	0.4056	0.4271	0.4506	0.4172	0.4487	0.5076	0.5116	0.5302	0.5606		0.47	12	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No.
Case No: Initial Cal. Date: 10/19/20
Matrix: Water Instrument: ZEUS Initials: CH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
106	TM	Hexachlorobutadiene	0.2282	0.2453	0.2448	0.2332	0.2420	0 2680	0.2603	0.2747	0.2894		0.25	8 0	TM			
107	TML	Naphthalene	0.6335	0.7402	0 8000	0.7837	0.9598	1.126	1.257	1.272	1.341		0.99	27	TM	1.000		
108	TM	1,2,3-Trichlorobenzene	0.3360	0.4416	0.4085	0.3998	0.4196	0 4598	0.4636	0.4766	0.4984		0.43	11	TM			
109																		
110																		
111																		
112																		
113																		
114																		
115																		
116																		
117																		
118																		
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Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z14.D
Acq On : 19 Oct 20 12:15
Sample : 0.3ug/L VOC STD 10/19/20
Misc :

Vial: 2
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 21 9:02 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1774887	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1283333	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	734864	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	74754	4.02	ppb		0.00
Spiked Amount 25.000			Recovery = 16.080%				
48) 1,2-DCA-D4(S)	4.78	65	82830	4.15	ppb		0.00
Spiked Amount 25.000			Recovery = 16.620%				
69) Toluene-D8(S)	6.44	98	263703	4.13	ppb		0.00
Spiked Amount 25.000			Recovery = 16.500%				
77) 4-Bromofluorobenzene(S)	8.83	95	91593	3.89	ppb		0.00
Spiked Amount 25.000			Recovery = 15.560%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.19	87	769	0.22	ppb	#	61
4) Freon 114	1.29	85	1437	0.38	ppb		99
5) Chloromethane	1.36	50	5254	0.40	ppb		91
6) Vinyl chloride	1.43	62	2948	0.29	ppb	#	88
9) Bromomethane	1.70	94	722	-1.76	ppb	#	68
10) Chloroethane	1.79	64	1404	0.41	ppb	#	43
11) Dichlorofluoromethane	2.00	67	5067	-0.66	ppb		99
12) Trichlorofluoromethane	2.05	101	4498	0.29	ppb	#	76
16) Acrolein	2.43	55	9384	9.94	ppb		89
17) Acetone	2.58	43	18392	5.44	ppb		100
18) Freon-113	2.55	101	2640	0.28	ppb		85
19) 1,1-DCE	2.53	61	3947	0.28	ppb		91
21) Acetonitrile	2.83	40	3987	11.10	ppb	#	90
22) t-Butanol	3.11	59	2996	8.72	ppb	#	86
23) Methyl Acetate	2.90	43	2567	0.32	ppb		92
24) Iodomethane	2.65	142	1618	2.09	ppb	#	89
25) Acrylonitrile	3.19	52	684	0.21	ppb	#	79
26) Methylene chloride	2.97	84	3690	0.34	ppb		85
27) Carbon disulfide	2.71	76	4619	0.33	ppb		99
28) Methyl t-butyl ether (MtBE	3.25	73	5683	0.27	ppb		95
29) Trans-1,2-DCE	3.22	61	3615	0.28	ppb		93
31) Diisopropyl Ether	3.69	45	7104	0.26	ppb		94
33) 1,1-DCA	3.59	63	4854	0.31	ppb	#	85
34) Vinyl Acetate	3.65	43	3670	0.29	ppb	#	94
35) Ethyl tert Butyl Ether	4.01	59	5847	0.26	ppb		99
36) MEK (2-Butanone)	4.12	43	20841	4.61	ppb		93
37) Cis-1,2-DCE	4.09	61	4439	0.30	ppb		97
38) 2,2-Dichloropropane	4.10	77	3860	0.31	ppb		97
41) Chloroform	4.37	83	4541	0.28	ppb	#	75
42) Bromochloromethane	4.29	49	2419	0.30	ppb	#	65
44) 1,1,1-TCA	4.53	97	3958	0.28	ppb	#	82
45) Cyclohexane	4.58	56	4442	0.29	ppb		95
46) 1,1-Dichloropropene	4.67	75	3419	0.28	ppb	#	88
47) 2,2,4-Trimethylpentane	4.93	57	7957	0.26	ppb		95
49) Carbon Tetrachloride	4.68	117	3312	0.27	ppb		91
50) Tert Amyl Methyl Ether	4.96	73	5228	0.27	ppb		94
51) Methylcyclopentane	4.01	56	379	0.27	ppb		100
52) 1,2-DCA	4.85	62	3923	0.31	ppb	#	92
53) Benzene	4.84	78	11032	0.30	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z14.D Vial: 2
Acq On : 19 Oct 20 12:15 Operator: LP,DG,CH
Sample : 0.3ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:02 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	3466	0.30	ppb		90
55)	2-Pentanone	5.55	43	52459	7.62	ppb		94
56)	1,2-Dichloropropane	5.58	63	2603	0.30	ppb	#	88
57)	Bromodichloromethane	5.81	83	2689	0.26	ppb		97
58)	Methyl Cyclohexane	5.57	83	3919	0.25	ppb		86
59)	Dibromomethane	5.67	174	1898	0.29	ppb		97
60)	MIBK (methyl isobutyl ket	6.35	43	32442	4.00	ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	383	0.26	ppb		98
62)	2-Chloroethyl vinyl ether	6.08	43	16265	4.21	ppb		98
63)	Cis-1,3-Dichloropropene	6.21	75	3292	0.26	ppb	#	87
64)	Toluene	6.50	91	11619	0.30	ppb		93
65)	Trans-1,3-Dichloropropene	6.69	75	2590	0.25	ppb	#	90
66)	1,1,2-TCA	6.85	97	2182	0.28	ppb		95
67)	2-Hexanone	7.09	43	20943	3.83	ppb		99
70)	1,2-EDB	7.30	107	2192	0.27	ppb	#	80
71)	Tetrachloroethene	6.99	166	3268	0.29	ppb		97
72)	1-Chlorohexane	7.75	91	5650	0.43	ppb	#	72
73)	1,1,1,2-Tetrachloroethane	7.84	131	1878	0.23	ppb	#	81
74)	m&p-Xylene	7.99	91	16509	0.53	ppb		95
75)	o-Xylene	8.35	91	8463	0.27	ppb		96
76)	Styrene	8.36	104	5230	0.22	ppb		98
78)	1,3-Dichloropropane	6.99	76	3670	0.29	ppb		92
79)	Dibromochloromethane	7.20	129	1973	0.25	ppb		91
80)	Chlorobenzene	7.76	112	8318	0.31	ppb		96
81)	Ethylbenzene	7.87	91	11406	0.27	ppb		99
82)	Bromoform	8.51	173	1151	2.02	ppb		90
84)	Isopropylbenzene	8.70	105	9595	0.23	ppb		93
85)	1,1,2,2-Tetrachloroethane	8.97	83	2237	0.25	ppb	#	93
86)	1,2,3-Trichloropropane	9.01	110	861	0.26	ppb	#	78
87)	t-1,4-Dichloro-2-Butene	9.03	53	470	2.05	ppb	#	22
88)	Bromobenzene	8.97	77	5466	0.29	ppb		86
89)	n-Propylbenzene	9.09	91	12113	0.24	ppb		96
90)	4-Ethyltoluene	9.20	105	10100	0.24	ppb		99
91)	2-Chlorotoluene	9.27	91	8997	0.26	ppb		97
92)	1,3,5-Trimethylbenzene	9.26	105	7287	0.20	ppb		99
93)	4-Chlorotoluene	9.27	91	8997	0.26	ppb		98
94)	Tert-Butylbenzene	9.57	119	7805	0.25	ppb	#	82
95)	1,2,4-Trimethylbenzene	9.62	105	7403	0.63	ppb		88
96)	Sec-Butylbenzene	9.79	105	10234	0.21	ppb		92
97)	p-Isopropyltoluene	9.94	119	9212	0.23	ppb	#	87
98)	Benzyl Chloride	10.10	91	2963	2.17	ppb		99
99)	1,3-DCB	9.88	146	6649	0.29	ppb		94
100)	1,4-DCB	9.96	146	7573	0.31	ppb		86
101)	n-Butylbenzene	10.33	91	8059	0.22	ppb		97
102)	1,2-DCB	10.32	146	6021	0.29	ppb		96
103)	Hexachloroethane	10.59	201	1196	3.03	ppb		96
104)	1,2-Dibromo-3-chloropropan	11.09	157	448	2.63	ppb	#	49
105)	1,2,4-Trichlorobenzene	11.91	180	3577	0.26	ppb		93
106)	Hexachlorobutadiene	12.10	225	2012	0.27	ppb		90
107)	Naphthalene	12.14	128	5586	1.08	ppb		98
108)	1,2,3-Trichlorobenzene	12.39	180	2963	0.23	ppb		89

(#) = qualifier out of range (m) = manual integration

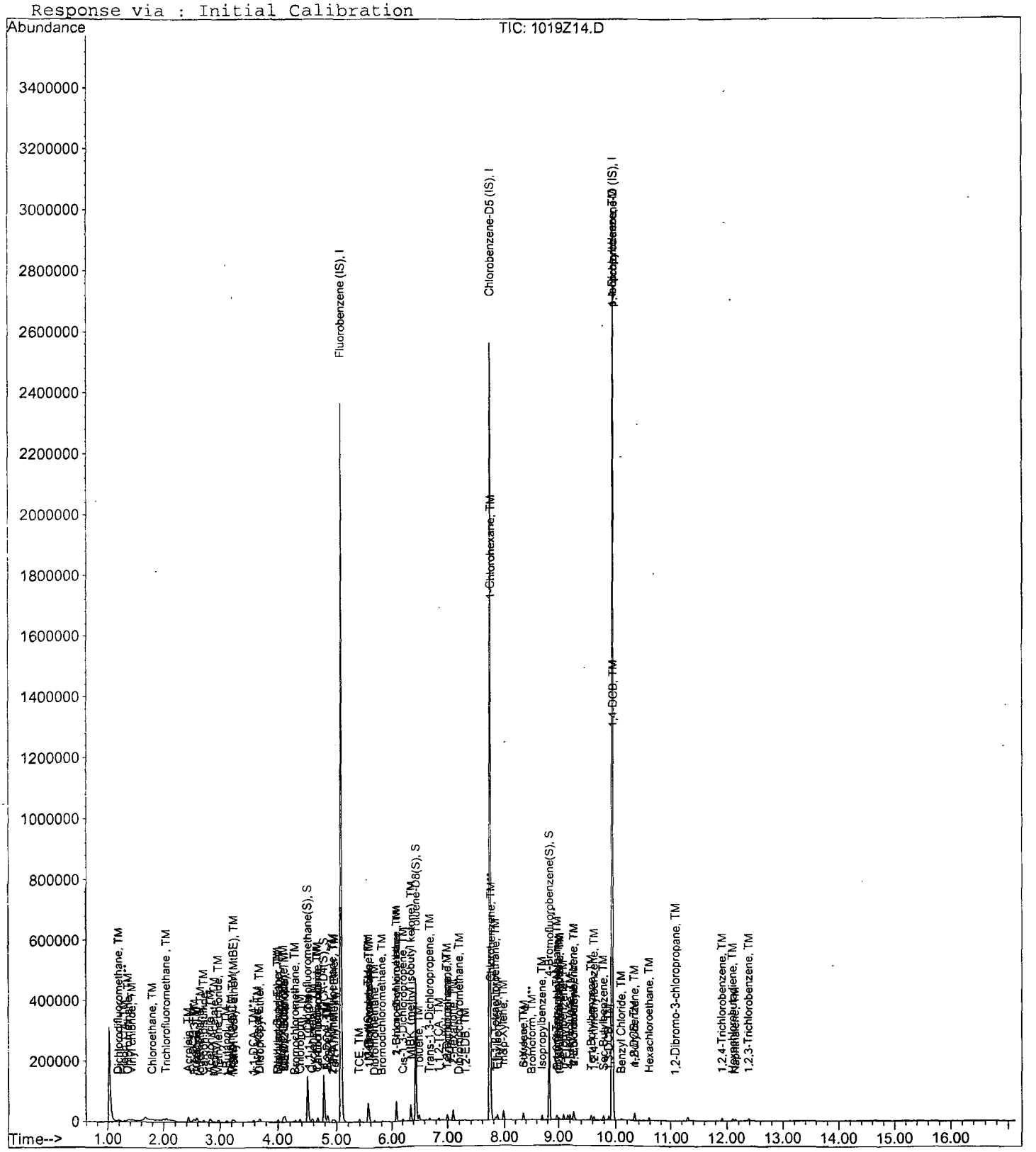
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z14.D
Acq On : 19 Oct 20 12:15
Sample : 0.3ug/L VOC STD 10/19/20
Misc :

Vial: 2
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 21 9:02 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z15.D Vial: 3
Acq On : 19 Oct 20 12:38 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1574092	25.00 ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1152466	25.00 ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	673478	25.00 ppb		0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	70695	4.29 ppb		0.00
Spiked Amount 25.000			Recovery =	17.148%		
48) 1,2-DCA-D4(S)	4.78	65	75242	4.26 ppb		0.00
Spiked Amount 25.000			Recovery =	17.020%		
69) Toluene-D8(S)	6.44	98	239028	4.16 ppb		0.00
Spiked Amount 25.000			Recovery =	16.656%		
77) 4-Bromofluorobenzene(S)	8.83	95	82126	3.88 ppb		0.00
Spiked Amount 25.000			Recovery =	15.536%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.18	87	1859	0.59 ppb		94
4) Freon 114	1.29	85	1900	0.56 ppb	#	71
5) Chloromethane	1.36	50	7035	0.60 ppb		89
6) Vinyl chloride	1.43	62	5154	0.58 ppb		94
9) Bromomethane	1.70	94	2127	-1.08 ppb		99
10) Chloroethane	1.79	64	2281	0.75 ppb		97
11) Dichlorofluoromethane	1.99	67	7810	-0.33 ppb	#	86
12) Trichlorofluoromethane	2.04	101	7800	0.56 ppb		86
16) Acrolein	2.43	55	21354	25.50 ppb		92
17) Acetone	2.58	43	33915	11.30 ppb		100
18) Freon-113	2.54	101	4513	0.55 ppb	#	83
19) 1,1-DCE	2.53	61	6654	0.54 ppb		94
21) Acetonitrile	2.83	40	9239	29.01 ppb		86
22) t-Butanol	3.12	59	8623	26.63 ppb		90
23) Methyl Acetate	2.90	43	3916	0.54 ppb		92
24) Iodomethane	2.65	142	2544	2.20 ppb	#	87
25) Acrylonitrile	3.19	52	1608	0.56 ppb		82
26) Methylene chloride	2.97	84	5652	0.59 ppb		91
27) Carbon disulfide	2.71	76	6720	0.54 ppb	#	94
28) Methyl t-butyl ether (MtBE	3.25	73	9128	0.49 ppb		94
29) Trans-1,2-DCE	3.22	61	6077	0.52 ppb		94
31) Diisopropyl Ether	3.69	45	11368	0.47 ppb		92
33) 1,1-DCA	3.59	63	7294	0.52 ppb	#	97
34) Vinyl Acetate	3.65	43	5898	0.52 ppb	#	90
35) Ethyl tert Butyl Ether	4.01	59	8789	0.44 ppb		92
36) MEK (2-Butanone)	4.12	43	37298	9.30 ppb		93
37) Cis-1,2-DCE	4.09	61	6956	0.53 ppb		95
38) 2,2-Dichloropropane	4.09	77	5693	0.51 ppb	#	88
41) Chloroform	4.37	83	7808	0.54 ppb		85
42) Bromochloromethane	4.29	49	3799	0.53 ppb		94
44) 1,1,1-TCA	4.52	97	6384	0.51 ppb	#	84
45) Cyclohexane	4.58	56	6772	0.49 ppb	#	88
46) 1,1-Dichloropropene	4.67	75	5242	0.49 ppb		93
47) 2,2,4-Trimethylpentane	4.93	57	13100	0.48 ppb		95
49) Carbon Tetrachloride	4.67	117	5785	0.53 ppb		89
50) Tert Amyl Methyl Ether	4.97	73	7122	0.42 ppb		97
51) Methylcyclopentane	4.01	56	720	0.57 ppb		100
52) 1,2-DCA	4.85	62	6423	0.57 ppb		98
53) Benzene	4.84	78	16973	0.52 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z15.D Vial: 3
Acq On : 19 Oct 20 12:38 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.40	130	5419	0.53	ppb	#	88
55)	2-Pentanone	5.55	43	127959	20.95	ppb		99
56)	1,2-Dichloropropane	5.57	63	3593	0.47	ppb	#	87
57)	Bromodichloromethane	5.81	83	4378	0.48	ppb		89
58)	Methyl Cyclohexane	5.57	83	7161	0.52	ppb		95
59)	Dibromomethane	5.67	174	2978	0.51	ppb	#	82
60)	MIBK (methyl isobutyl ket	6.35	43	62309	8.67	ppb		98
61)	1-Bromo-2-chloroethane	6.08	144	624	0.47	ppb	#	77
62)	2-Chloroethyl vinyl ether	6.08	43	28764	8.40	ppb		94
63)	Cis-1,3-Dichloropropene	6.20	75	5146	0.46	ppb	#	91
64)	Toluene	6.50	91	16892	0.49	ppb		97
65)	Trans-1,3-Dichloropropene	6.69	75	3846	0.42	ppb		92
66)	1,1,2-TCA	6.85	97	3515	0.51	ppb		93
67)	2-Hexanone	7.09	43	41228	8.49	ppb		100
70)	1,2-EDB	7.30	107	3290	0.46	ppb	#	93
71)	Tetrachloroethene	6.99	166	5338	0.52	ppb		96
72)	1-Chlorohexane	7.75	91	7662	0.65	ppb	#	84
73)	1,1,1,2-Tetrachloroethane	7.84	131	3202	0.44	ppb		88
74)	m&p-Xylene	7.98	91	26640	0.95	ppb		93
75)	o-Xylene	8.35	91	12666	0.45	ppb		94
76)	Styrene	8.36	104	8390	0.39	ppb		96
78)	1,3-Dichloropropane	7.00	76	5442	0.48	ppb		97
79)	Dibromochloromethane	7.20	129	3282	0.47	ppb	#	79
80)	Chlorobenzene	7.76	112	12408	0.52	ppb		98
81)	Ethylbenzene	7.87	91	18612	0.50	ppb		89
82)	Bromoform	8.52	173	1607	2.11	ppb	#	84
84)	Isopropylbenzene	8.70	105	16082	0.43	ppb		95
85)	1,1,2,2-Tetrachloroethane	8.97	83	3690	0.45	ppb	#	96
86)	1,2,3-Trichloropropane	9.01	110	1287	0.43	ppb		95
87)	t-1,4-Dichloro-2-Butene	9.03	53	888	2.21	ppb	#	77
88)	Bromobenzene	8.97	77	8122	0.47	ppb		90
89)	n-Propylbenzene	9.09	91	19361	0.43	ppb		90
90)	4-Ethyltoluene	9.20	105	15138	0.39	ppb		98
91)	2-Chlorotoluene	9.16	91	14424	0.46	ppb		98
92)	1,3,5-Trimethylbenzene	9.26	105	12803	0.39	ppb		92
93)	4-Chlorotoluene	9.27	91	14230	0.45	ppb		92
94)	Tert-Butylbenzene	9.57	119	11400	0.40	ppb		98
95)	1,2,4-Trimethylbenzene	9.62	105	11917	0.76	ppb		98
96)	Sec-Butylbenzene	9.79	105	17480	0.39	ppb		97
97)	p-Isopropyltoluene	9.94	119	15668	0.43	ppb		93
98)	Benzyl Chloride	10.10	91	4926	2.29	ppb		96
99)	1,3-DCB	9.88	146	9929	0.47	ppb		93
100)	1,4-DCB	9.97	146	11002	0.50	ppb		95
101)	n-Butylbenzene	10.33	91	12632	0.38	ppb		93
102)	1,2-DCB	10.33	146	9270	0.49	ppb		99
103)	Hexachloroethane	10.59	201	1696	3.11	ppb		87
104)	1,2-Dibromo-3-chloropropan	11.08	157	706	2.74	ppb	#	80
105)	1,2,4-Trichlorobenzene	11.91	180	5753	0.45	ppb		98
106)	Hexachlorobutadiene	12.11	225	3304	0.48	ppb		94
107)	Naphthalene	12.15	128	9970	1.22	ppb		97
108)	1,2,3-Trichlorobenzene	12.39	180	5948	0.51	ppb		87

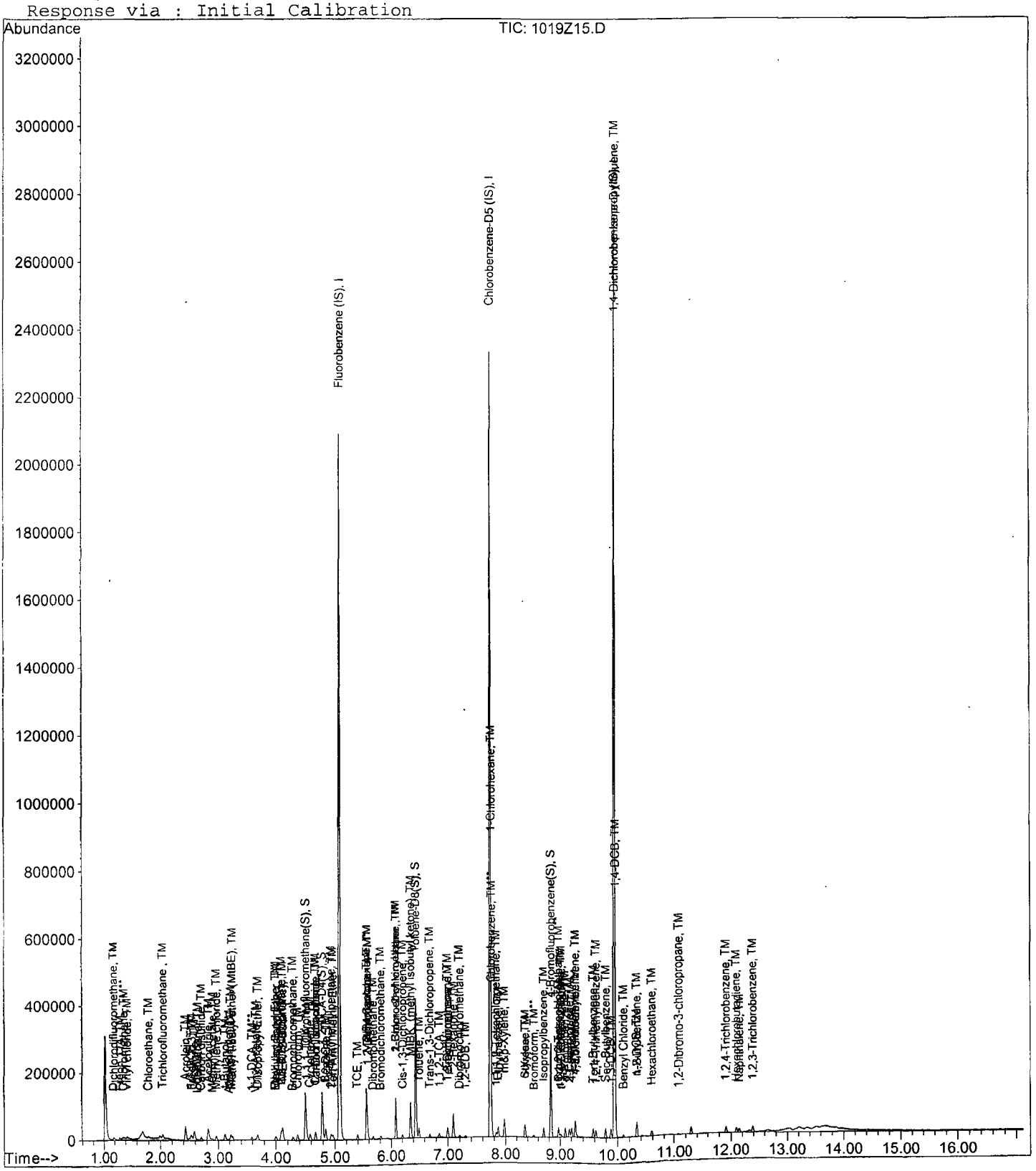
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z15.D Vial: 3
Acq On : 19 Oct 20 12:38 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z16.D Vial: 4
Acq On : 19 Oct 20 13:01 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1700604	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1235774	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	713006	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	178957	10.04	ppb		0.00
Spiked Amount 25.000			Recovery =	40.176%			
48) 1,2-DCA-D4(S)	4.78	65	194179	10.16	ppb		0.00
Spiked Amount 25.000			Recovery =	40.660%			
69) Toluene-D8(S)	6.44	98	619561	10.06	ppb		0.00
Spiked Amount 25.000			Recovery =	40.260%			
77) 4-Bromofluorobenzene(S)	8.83	95	223756	9.87	ppb		0.00
Spiked Amount 25.000			Recovery =	39.472%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	3930	1.16	ppb		95
4) Freon 114	1.29	85	3702	1.01	ppb	#	74
5) Chloromethane	1.37	50	13299	1.05	ppb		94
6) Vinyl chloride	1.43	62	9481	0.98	ppb		99
9) Bromomethane	1.71	94	4374	-0.20	ppb		84
10) Chloroethane	1.79	64	3476	1.06	ppb	#	86
11) Dichlorofluoromethane	1.99	67	16305	0.37	ppb	#	88
12) Trichlorofluoromethane	2.04	101	16291	1.09	ppb		94
16) Acrolein	2.43	55	48438	53.54	ppb		96
17) Acetone	2.59	43	68732	21.20	ppb		97
18) Freon-113	2.55	101	9690	1.09	ppb		86
19) 1,1-DCE	2.52	61	13792	1.03	ppb		94
21) Acetonitrile	2.83	40	19704	57.27	ppb		94
22) t-Butanol	3.12	59	18408	51.88	ppb		95
23) Methyl Acetate	2.90	43	8481	1.09	ppb		98
24) Iodomethane	2.65	142	4879	2.40	ppb	#	94
25) Acrylonitrile	3.19	52	3344	1.08	ppb	#	88
26) Methylene chloride	2.97	84	11388	1.09	ppb		97
27) Carbon disulfide	2.70	76	12647	0.94	ppb		98
28) Methyl t-butyl ether (MtBE	3.25	73	20407	1.01	ppb	#	90
29) Trans-1,2-DCE	3.22	61	13728	1.09	ppb		95
31) Diisopropyl Ether	3.69	45	25037	0.96	ppb		95
33) 1,1-DCA	3.59	63	15686	1.04	ppb		96
34) Vinyl Acetate	3.65	43	12639	1.03	ppb	#	92
35) Ethyl tert Butyl Ether	4.00	59	20434	0.95	ppb		88
36) MEK (2-Butanone)	4.12	43	85365	19.69	ppb		99
37) Cis-1,2-DCE	4.09	61	14171	1.01	ppb		93
38) 2,2-Dichloropropane	4.09	77	12169	1.01	ppb		94
41) Chloroform	4.37	83	16454	1.06	ppb		96
42) Bromochloromethane	4.29	49	7859	1.02	ppb		96
44) 1,1,1-TCA	4.53	97	14095	1.04	ppb		98
45) Cyclohexane	4.58	56	14810	1.00	ppb		92
46) 1,1-Dichloropropene	4.67	75	11685	1.01	ppb		99
47) 2,2,4-Trimethylpentane	4.93	57	29309	0.98	ppb		96
49) Carbon Tetrachloride	4.67	117	11286	0.96	ppb		91
50) Tert Amyl Methyl Ether	4.97	73	17782	0.97	ppb	#	84
51) Methylcyclopentane	4.01	56	1381	1.01	ppb		100
52) 1,2-DCA	4.84	62	13092	1.08	ppb		99
53) Benzene	4.84	78	36783	1.04	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z16.D Vial: 4
Acq On : 19 Oct 20 13:01 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.40	130	10815	0.98	ppb	#	85
55)	2-Pentanone	5.55	43	309786	46.96	ppb		99
56)	1,2-Dichloropropane	5.58	63	8671	1.06	ppb	#	91
57)	Bromodichloromethane	5.81	83	9871	1.01	ppb		84
58)	Methyl Cyclohexane	5.57	83	15661	1.05	ppb		94
59)	Dibromomethane	5.67	174	6485	1.03	ppb		95
60)	MIBK (methyl isobutyl ket	6.35	43	148981	19.19	ppb		96
61)	1-Bromo-2-chloroethane	6.08	144	1585	1.11	ppb	#	76
62)	2-Chloroethyl vinyl ether	6.08	43	71372	19.29	ppb		99
63)	Cis-1,3-Dichloropropene	6.20	75	11502	0.95	ppb		94
64)	Toluene	6.50	91	37903	1.01	ppb		99
65)	Trans-1,3-Dichloropropene	6.69	75	9040	0.92	ppb		96
66)	1,1,2-TCA	6.85	97	8089	1.09	ppb		96
67)	2-Hexanone	7.09	43	100858	19.23	ppb		95
70)	1,2-EDB	7.30	107	7436	0.96	ppb		98
71)	Tetrachloroethene	6.99	166	11329	1.03	ppb		95
72)	1-Chlorohexane	7.75	91	13690	1.08	ppb	#	77
73)	1,1,1,2-Tetrachloroethane	7.84	131	7374	0.95	ppb		90
74)	m&p-Xylene	7.98	91	59303	1.97	ppb		99
75)	o-Xylene	8.35	91	29186	0.97	ppb		96
76)	Styrene	8.36	104	19739	0.86	ppb		96
78)	1,3-Dichloropropane	7.00	76	12623	1.04	ppb		99
79)	Dibromochloromethane	7.20	129	6694	0.89	ppb		98
80)	Chlorobenzene	7.76	112	26743	1.04	ppb		94
81)	Ethylbenzene	7.87	91	39774	0.99	ppb		97
82)	Bromoform	8.51	173	3863	2.43	ppb		96
84)	Isopropylbenzene	8.70	105	35048	0.88	ppb		97
85)	1,1,2,2-Tetrachloroethane	8.97	83	7581	0.88	ppb	#	94
86)	1,2,3-Trichloropropane	9.00	110	2962	0.93	ppb	#	80
87)	t-1,4-Dichloro-2-Butene	9.03	53	2011	2.54	ppb		87
88)	Bromobenzene	8.97	77	17989	0.99	ppb		94
89)	n-Propylbenzene	9.09	91	44444	0.92	ppb		98
90)	4-Ethyltoluene	9.20	105	37194	0.91	ppb		97
91)	2-Chlorotoluene	9.16	91	32488	0.98	ppb		95
92)	1,3,5-Trimethylbenzene	9.26	105	31220	0.89	ppb		96
93)	4-Chlorotoluene	9.27	91	33441	0.99	ppb		95
94)	Tert-Butylbenzene	9.58	119	27455	0.91	ppb		95
95)	1,2,4-Trimethylbenzene	9.62	105	29131	1.17	ppb		99
96)	Sec-Butylbenzene	9.79	105	40659	0.87	ppb		98
97)	p-Isopropyltoluene	9.94	119	34291	0.88	ppb		93
98)	Benzyl Chloride	10.10	91	10714	2.55	ppb		95
99)	1,3-DCB	9.88	146	22161	0.99	ppb		98
100)	1,4-DCB	9.97	146	24486	1.05	ppb		98
101)	n-Butylbenzene	10.33	91	30335	0.86	ppb		97
102)	1,2-DCB	10.32	146	19933	0.99	ppb		97
103)	Hexachloroethane	10.59	201	4031	3.42	ppb	#	73
104)	1,2-Dibromo-3-chloropropan	11.08	157	1726	3.07	ppb	#	84
105)	1,2,4-Trichlorobenzene	11.91	180	12852	0.95	ppb		95
106)	Hexachlorobutadiene	12.10	225	6982	0.96	ppb	#	87
107)	Naphthalene	12.14	128	22816	1.54	ppb		98
108)	1,2,3-Trichlorobenzene	12.39	180	11651	0.94	ppb		92

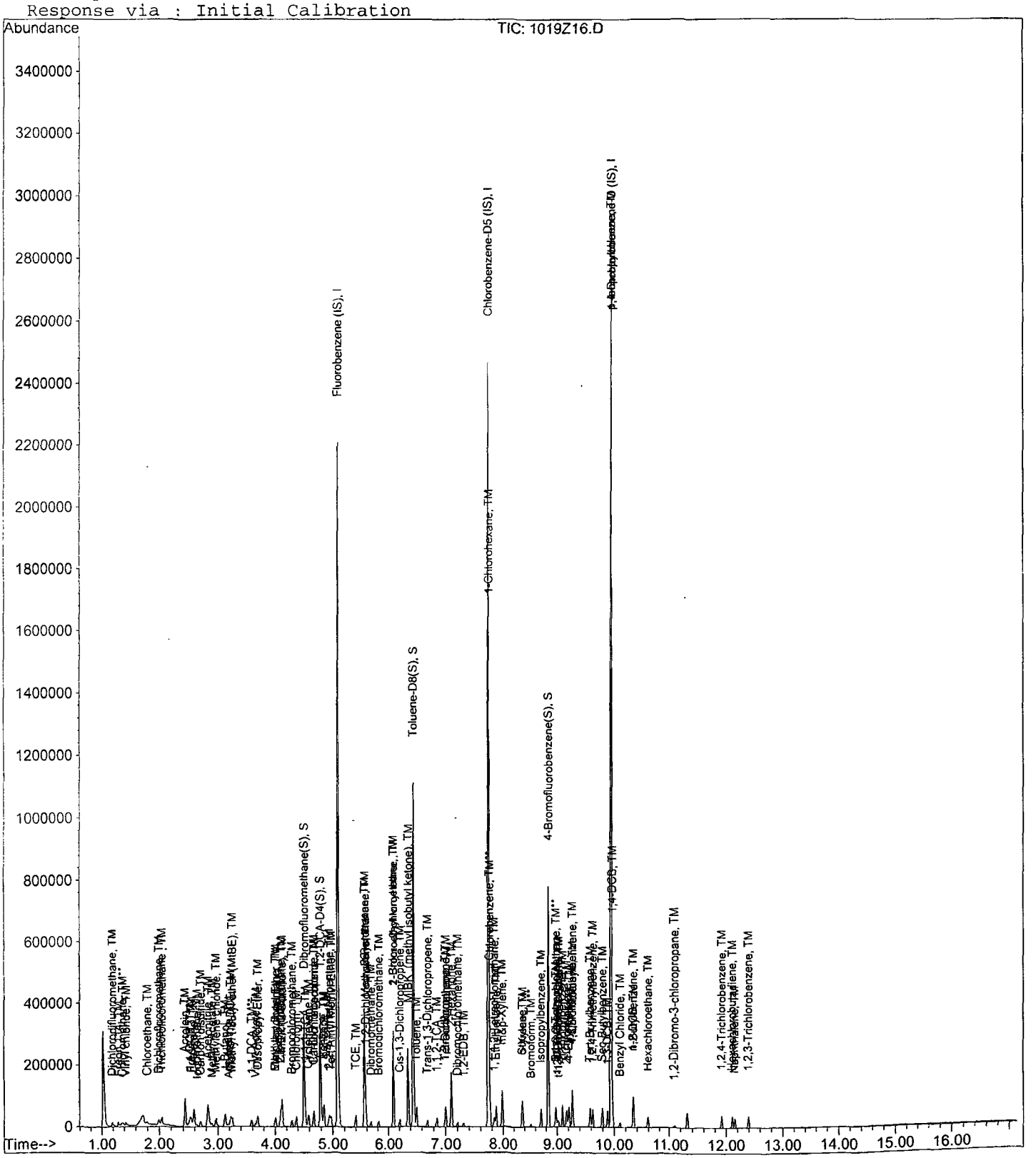
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z16.D Vial: 4
Acq On : 19 Oct 20 13:01 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z17.D Vial: 5
Acq On : 19 Oct 20 13:24 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1645562	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1190576	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	690799	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	172409	10.00	ppb		0.00
Spiked Amount 25.000			Recovery =	40.000%			
48) 1,2-DCA-D4(S)	4.78	65	186964	10.11	ppb		0.00
Spiked Amount 25.000			Recovery =	40.460%			
69) Toluene-D8(S)	6.44	98	601715	10.15	ppb		0.00
Spiked Amount 25.000			Recovery =	40.584%			
77) 4-Bromofluorobenzene(S)	8.83	95	215304	9.86	ppb		0.00
Spiked Amount 25.000			Recovery =	39.424%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	6517	1.98	ppb		87
4) Freon 114	1.29	85	7946	2.25	ppb	#	78
5) Chloromethane	1.37	50	26101	2.13	ppb		99
6) Vinyl chloride	1.43	62	18112	1.94	ppb		94
9) Bromomethane	1.70	94	7526	1.24	ppb		86
10) Chloroethane	1.79	64	6288	1.98	ppb		90
11) Dichlorofluoromethane	1.99	67	30662	1.75	ppb		99
12) Trichlorofluoromethane	2.04	101	29778	2.06	ppb		94
16) Acrolein	2.43	55	64710	73.92	ppb		94
17) Acetone	2.58	43	93610	29.84	ppb		98
18) Freon-113	2.54	101	17710	2.05	ppb		86
19) 1,1-DCE	2.52	61	26311	2.04	ppb		92
21) Acetonitrile	2.83	40	25776	77.42	ppb		97
22) t-Butanol	3.12	59	25552	74.10	ppb		95
23) Methyl Acetate	2.90	43	14789	1.96	ppb	#	90
24) Iodomethane	2.64	142	9761	2.89	ppb		99
25) Acrylonitrile	3.18	52	5705	1.90	ppb		84
26) Methylene chloride	2.97	84	19232	1.91	ppb		99
27) Carbon disulfide	2.71	76	25920	1.99	ppb		97
28) Methyl t-butyl ether (MtBE	3.25	73	37770	1.94	ppb		96
29) Trans-1,2-DCE	3.22	61	25078	2.06	ppb		99
31) Diisopropyl Ether	3.69	45	47670	1.88	ppb		99
33) 1,1-DCA	3.59	63	29002	1.98	ppb		99
34) Vinyl Acetate	3.65	43	24861	2.09	ppb		99
35) Ethyl tert Butyl Ether	4.01	59	38454	1.85	ppb		100
36) MEK (2-Butanone)	4.12	43	116498	27.77	ppb		98
37) Cis-1,2-DCE	4.09	61	27884	2.05	ppb		89
38) 2,2-Dichloropropane	4.09	77	22885	1.96	ppb		90
41) Chloroform	4.37	83	30478	2.03	ppb		99
42) Bromochloromethane	4.29	49	15226	2.03	ppb		95
44) 1,1,1-TCA	4.52	97	25860	1.96	ppb		99
45) Cyclohexane	4.58	56	28821	2.00	ppb		99
46) 1,1-Dichloropropene	4.67	75	21518	1.93	ppb		95
47) 2,2,4-Trimethylpentane	4.93	57	54624	1.90	ppb		98
49) Carbon Tetrachloride	4.67	117	22735	2.00	ppb		97
50) Tert Amyl Methyl Ether	4.96	73	31725	1.79	ppb		91
51) Methylcyclopentane	4.00	56	3084	2.33	ppb		100
52) 1,2-DCA	4.84	62	24074	2.04	ppb		99
53) Benzene	4.84	78	69537	2.04	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z17.D Vial: 5
Acq On : 19 Oct 20 13:24 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	21053	1.97	ppb		95
55)	2-Pentanone	5.55	43	418531	65.56	ppb		100
56)	1,2-Dichloropropane	5.57	63	16222	2.05	ppb	#	92
57)	Bromodichloromethane	5.81	83	18218	1.92	ppb		96
58)	Methyl Cyclohexane	5.57	83	29307	2.03	ppb		97
59)	Dibromomethane	5.67	174	12088	1.99	ppb		98
60)	MIBK (methyl isobutyl ket	6.35	43	208800	27.80	ppb		96
61)	1-Bromo-2-chloroethane	6.08	144	2756	1.99	ppb		97
62)	2-Chloroethyl vinyl ether	6.08	43	100848	28.17	ppb		98
63)	Cis-1,3-Dichloropropene	6.21	75	21476	1.84	ppb		93
64)	Toluene	6.50	91	73546	2.03	ppb		98
65)	Trans-1,3-Dichloropropene	6.69	75	16994	1.79	ppb		98
66)	1,1,2-TCA	6.85	97	13618	1.89	ppb		95
67)	2-Hexanone	7.09	43	140212	27.63	ppb		99
70)	1,2-EDB	7.30	107	13888	1.87	ppb		96
71)	Tetrachloroethene	6.99	166	21099	2.00	ppb		94
72)	1-Chlorohexane	7.75	91	23388	1.91	ppb		97
73)	1,1,1,2-Tetrachloroethane	7.84	131	13377	1.78	ppb		96
74)	m&p-Xylene	7.98	91	115731	3.99	ppb		99
75)	o-Xylene	8.35	91	56061	1.94	ppb		97
76)	Styrene	8.36	104	39180	1.77	ppb		97
78)	1,3-Dichloropropane	7.00	76	22602	1.93	ppb		97
79)	Dibromochloromethane	7.20	129	12587	1.74	ppb		99
80)	Chlorobenzene	7.76	112	50098	2.03	ppb		96
81)	Ethylbenzene	7.87	91	74784	1.93	ppb		95
82)	Bromoform	8.51	173	7391	3.00	ppb		99
84)	Isopropylbenzene	8.70	105	70430	1.83	ppb		99
85)	1,1,2,2-Tetrachloroethane	8.97	83	14776	1.76	ppb	#	97
86)	1,2,3-Trichloropropane	9.00	110	5433	1.75	ppb	#	86
87)	t-1,4-Dichloro-2-Butene	9.03	53	3496	3.05	ppb		97
88)	Bromobenzene	8.97	77	32105	1.83	ppb		98
89)	n-Propylbenzene	9.09	91	86300	1.85	ppb		97
90)	4-Ethyltoluene	9.21	105	75653	1.91	ppb		100
91)	2-Chlorotoluene	9.16	91	55314	1.73	ppb		99
92)	1,3,5-Trimethylbenzene	9.26	105	64132	1.89	ppb		96
93)	4-Chlorotoluene	9.27	91	65973	2.02	ppb		95
94)	Tert-Butylbenzene	9.58	119	53615	1.83	ppb		99
95)	1,2,4-Trimethylbenzene	9.62	105	62060	2.03	ppb		94
96)	Sec-Butylbenzene	9.79	105	81209	1.79	ppb		99
97)	p-Isopropyltoluene	9.94	119	69919	1.86	ppb		96
98)	Benzyl Chloride	10.10	91	21180	3.08	ppb		98
99)	1,3-DCB	9.88	146	42795	1.97	ppb		94
100)	1,4-DCB	9.97	146	44174	1.95	ppb		99
101)	n-Butylbenzene	10.33	91	59721	1.74	ppb		97
102)	1,2-DCB	10.32	146	38046	1.94	ppb		97
103)	Hexachloroethane	10.59	201	7500	3.92	ppb		95
104)	1,2-Dibromo-3-chloropropan	11.08	157	2748	3.45	ppb		94
105)	1,2,4-Trichlorobenzene	11.91	180	23055	1.76	ppb		99
106)	Hexachlorobutadiene	12.10	225	12890	1.84	ppb		96
107)	Naphthalene	12.15	128	43310	2.11	ppb		100
108)	1,2,3-Trichlorobenzene	12.39	180	22095	1.84	ppb		95

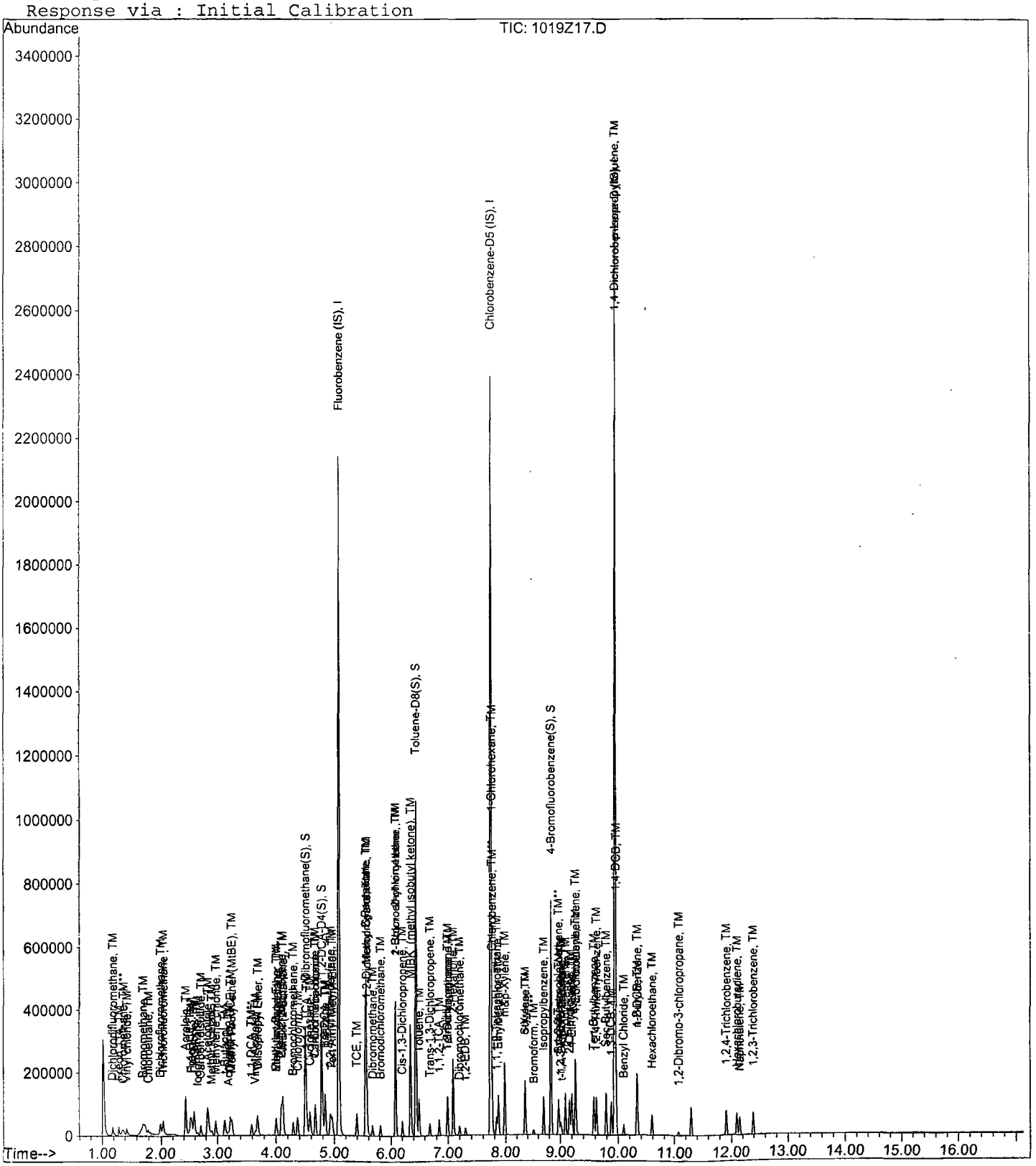
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z17.D Vial: 5
Acq On : 19 Oct 20 13:24 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z18.D Vial: 6
Acq On : 19 Oct 20 13:47 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1681779	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1209884	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	696850	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	481055	27.30	ppb	0.00
Spiked Amount 25.000			Recovery =	109.204%		
48) 1,2-DCA-D4(S)	4.78	65	513732	27.19	ppb	0.00
Spiked Amount 25.000			Recovery =	108.776%		
69) Toluene-D8(S)	6.44	98	1644045	27.28	ppb	0.00
Spiked Amount 25.000			Recovery =	109.116%		
77) 4-Bromofluorobenzene(S)	8.83	95	607357	27.36	ppb	0.00
Spiked Amount 25.000			Recovery =	109.436%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.18	87	17279	5.15	ppb	82
4) Freon 114	1.29	85	17320	4.79	ppb	86
5) Chloromethane	1.37	50	60795	4.86	ppb	97
6) Vinyl chloride	1.43	62	46054	4.84	ppb	97
9) Bromomethane	1.70	94	17123	5.27	ppb	93
10) Chloroethane	1.78	64	18438	5.67	ppb	95
11) Dichlorofluoromethane	1.99	67	73047	5.54	ppb	100
12) Trichlorofluoromethane	2.03	101	73877	5.00	ppb	92
16) Acrolein	2.43	55	89000	99.48	ppb	98
17) Acetone	2.59	43	121798	37.99	ppb	99
18) Freon-113	2.54	101	42820	4.86	ppb	91
19) 1,1-DCE	2.52	61	66728	5.06	ppb	97
21) Acetonitrile	2.83	40	33534	98.56	ppb	98
22) t-Butanol	3.13	59	33976	96.19	ppb	93
23) Methyl Acetate	2.90	43	35012	4.54	ppb	99
24) Iodomethane	2.64	142	31276	4.91	ppb	93
25) Acrylonitrile	3.19	52	15404	5.01	ppb	96
26) Methylene chloride	2.97	84	49454	4.80	ppb	93
27) Carbon disulfide	2.70	76	63440	4.76	ppb	100
28) Methyl t-butyl ether (MtBE	3.25	73	95025	4.77	ppb	95
29) Trans-1,2-DCE	3.22	61	61647	4.96	ppb	95
31) Diisopropyl Ether	3.69	45	126654	4.90	ppb	97
33) 1,1-DCA	3.59	63	73063	4.89	ppb	96
34) Vinyl Acetate	3.65	43	50538	4.16	ppb	99
35) Ethyl tert Butyl Ether	4.00	59	104653	4.91	ppb	93
36) MEK (2-Butanone)	4.12	43	161532	37.68	ppb	97
37) Cis-1,2-DCE	4.09	61	69607	5.00	ppb	96
38) 2,2-Dichloropropane	4.09	77	59100	4.96	ppb	97
41) Chloroform	4.37	83	77100	5.03	ppb	97
42) Bromochloromethane	4.29	49	38374	5.01	ppb	96
44) 1,1,1-TCA	4.52	97	68154	5.07	ppb	97
45) Cyclohexane	4.58	56	70420	4.79	ppb	96
46) 1,1-Dichloropropene	4.67	75	58710	5.15	ppb	96
47) 2,2,4-Trimethylpentane	4.93	57	137890	4.68	ppb	99
49) Carbon Tetrachloride	4.67	117	57892	4.99	ppb	94
50) Tert Amyl Methyl Ether	4.97	73	86680	4.78	ppb	98
51) Methylcyclopentane	4.00	56	7089	5.24	ppb	100
52) 1,2-DCA	4.85	62	58964	4.90	ppb	98
53) Benzene	4.84	78	175522	5.03	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z18.D Vial: 6
Acq On : 19 Oct 20 13:47 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	53254	4.88	ppb		94
55)	2-Pentanone	5.55	43	607126	93.06	ppb		100
56)	1,2-Dichloropropane	5.58	63	41123	5.08	ppb	#	94
57)	Bromodichloromethane	5.81	83	48067	4.96	ppb		99
58)	Methyl Cyclohexane	5.57	83	72230	4.89	ppb		93
59)	Dibromomethane	5.67	174	30684	4.93	ppb		96
60)	MIBK (methyl isobutyl ket	6.35	43	292847	38.15	ppb		97
61)	1-Bromo-2-chloroethane	6.08	144	7133	5.03	ppb		97
62)	2-Chloroethyl vinyl ether	6.08	43	146992	40.17	ppb		98
63)	Cis-1,3-Dichloropropene	6.20	75	59060	4.95	ppb		99
64)	Toluene	6.51	91	183927	4.97	ppb		96
65)	Trans-1,3-Dichloropropene	6.69	75	47806	4.92	ppb		97
66)	1,1,2-TCA	6.85	97	35034	4.76	ppb		92
67)	2-Hexanone	7.09	43	200667	38.69	ppb		96
70)	1,2-EDB	7.30	107	37669	4.99	ppb		97
71)	Tetrachloroethene	6.99	166	52562	4.90	ppb		96
72)	1-Chlorohexane	7.75	91	57103	4.60	ppb		99
73)	1,1,1,2-Tetrachloroethane	7.84	131	37831	4.96	ppb		94
74)	m&p-Xylene	7.98	91	309897	10.50	ppb		98
75)	o-Xylene	8.35	91	150081	5.10	ppb		98
76)	Styrene	8.36	104	115169	5.12	ppb		99
78)	1,3-Dichloropropane	7.00	76	58864	4.95	ppb		98
79)	Dibromochloromethane	7.20	129	34196	4.66	ppb		98
80)	Chlorobenzene	7.76	112	123609	4.93	ppb		99
81)	Ethylbenzene	7.87	91	198219	5.02	ppb		97
82)	Bromoform	8.51	173	20407	4.97	ppb		89
84)	Isopropylbenzene	8.70	105	193221	4.99	ppb		100
85)	1,1,2,2-Tetrachloroethane	8.97	83	40044	4.73	ppb	#	97
86)	1,2,3-Trichloropropane	9.00	110	15116	4.83	ppb		98
87)	t-1,4-Dichloro-2-Butene	9.02	53	10419	5.27	ppb		97
88)	Bromobenzene	8.97	77	84679	4.78	ppb		95
89)	n-Propylbenzene	9.09	91	241172	5.13	ppb		98
90)	4-Ethyltoluene	9.20	105	208346	5.21	ppb		99
91)	2-Chlorotoluene	9.16	91	164003	5.07	ppb		97
92)	1,3,5-Trimethylbenzene	9.26	105	176596	5.15	ppb		98
93)	4-Chlorotoluene	9.27	91	169919	5.15	ppb		100
94)	Tert-Butylbenzene	9.58	119	148178	5.01	ppb		98
95)	1,2,4-Trimethylbenzene	9.62	105	170619	4.75	ppb		98
96)	Sec-Butylbenzene	9.79	105	231454	5.05	ppb		98
97)	p-Isopropyltoluene	9.94	119	196842	5.18	ppb		100
98)	Benzyl Chloride	10.10	91	58423	4.89	ppb		98
99)	1,3-DCB	9.88	146	107686	4.92	ppb		97
100)	1,4-DCB	9.97	146	110563	4.83	ppb		100
101)	n-Butylbenzene	10.33	91	174390	5.05	ppb		98
102)	1,2-DCB	10.33	146	98457	4.99	ppb		98
103)	Hexachloroethane	10.59	201	20498	5.70	ppb		92
104)	1,2-Dibromo-3-chloropropan	11.08	157	8633	5.49	ppb		94
105)	1,2,4-Trichlorobenzene	11.91	180	62529	4.74	ppb		99
106)	Hexachlorobutadiene	12.10	225	33729	4.76	ppb		95
107)	Naphthalene	12.15	128	133767	4.51	ppb		100
108)	1,2,3-Trichlorobenzene	12.39	180	58486	4.84	ppb		94

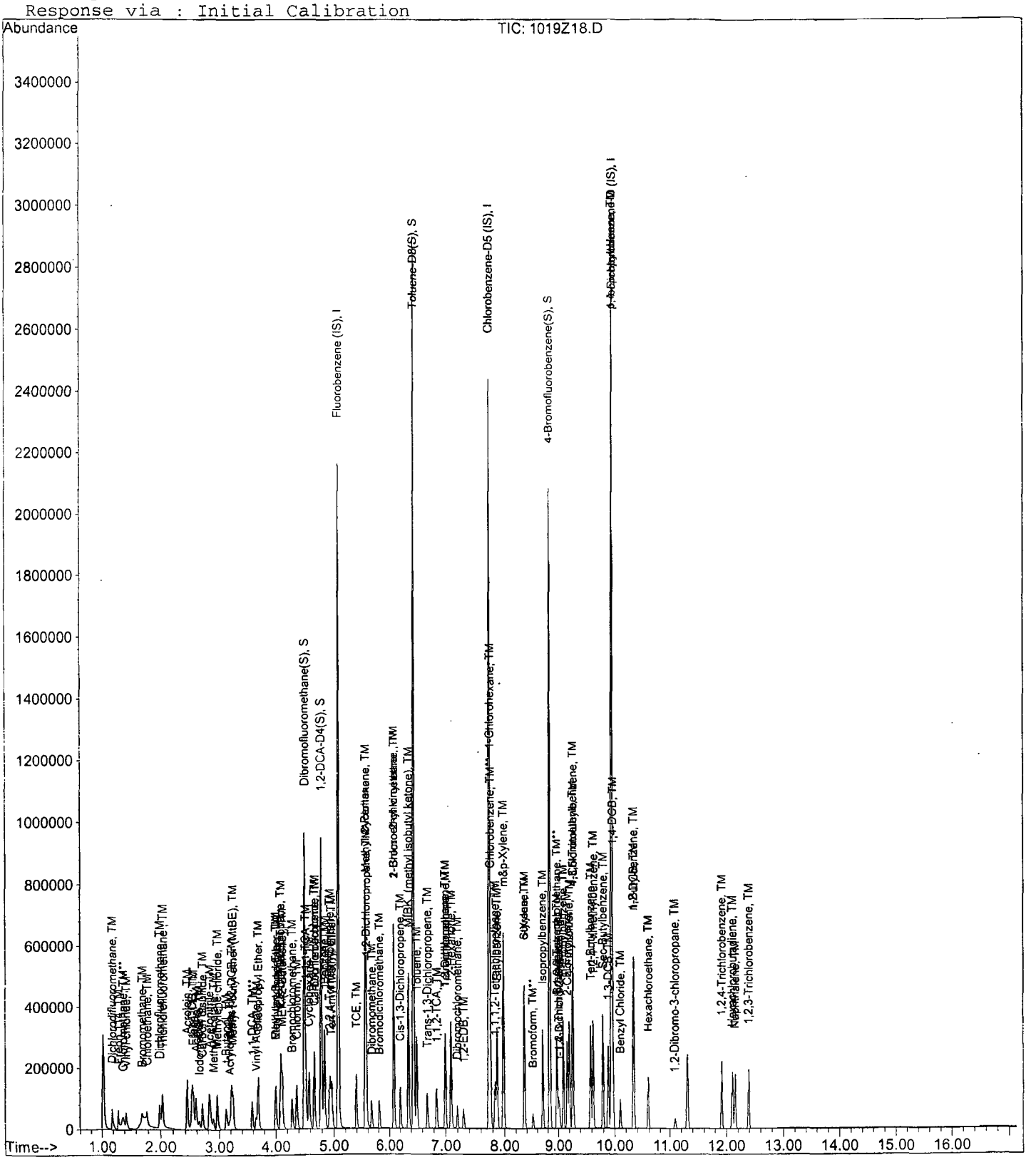
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z18.D Vial: 6
Acq On : 19 Oct 20 13:47 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z19.D Vial: 7
Acq On : 19 Oct 20 14:10 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1704623	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1224809	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	696598	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	489007	27.38	ppb	0.00
Spiked Amount 25.000			Recovery = 109.520%			
48) 1,2-DCA-D4(S)	4.78	65	521162	27.22	ppb	0.00
Spiked Amount 25.000			Recovery = 108.868%			
69) Toluene-D8(S)	6.44	98	1678029	27.50	ppb	0.00
Spiked Amount 25.000			Recovery = 110.012%			
77) 4-Bromofluorobenzene(S)	8.83	95	620632	27.62	ppb	0.00
Spiked Amount 25.000			Recovery = 110.464%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.18	87	37342	10.97	ppb	100
4) Freon 114	1.29	85	36203	9.89	ppb	100
5) Chloromethane	1.37	50	126923	10.00	ppb	100
6) Vinyl chloride	1.43	62	96702	10.02	ppb	100
9) Bromomethane	1.70	94	33935	12.28	ppb	100
10) Chloroethane	1.78	64	37530	11.39	ppb	100
11) Dichlorofluoromethane	1.99	67	148416	12.20	ppb	100
12) Trichlorofluoromethane	2.03	101	154782	10.33	ppb	100
16) Acrolein	2.43	55	113845	125.54	ppb	100
17) Acetone	2.59	43	153546	47.25	ppb	100
18) Freon-113	2.54	101	92210	10.32	ppb	100
19) 1,1-DCE	2.52	61	140425	10.50	ppb	100
21) Acetonitrile	2.83	40	42447	123.08	ppb	100
22) t-Butanol	3.13	59	45480	126.79	ppb	100
23) Methyl Acetate	2.90	43	76377	9.77	ppb	100
24) Iodomethane	2.65	142	79011	9.34	ppb	100
25) Acrylonitrile	3.19	52	33018	10.59	ppb	100
26) Methylene chloride	2.97	84	103048	9.86	ppb	100
27) Carbon disulfide	2.70	76	138048	10.22	ppb	100
28) Methyl t-butyl ether (MtBE	3.25	73	211843	10.50	ppb	100
29) Trans-1,2-DCE	3.22	61	130689	10.38	ppb	100
31) Diisopropyl Ether	3.69	45	284269	10.85	ppb	100
33) 1,1-DCA	3.59	63	157682	10.40	ppb	100
34) Vinyl Acetate	3.65	43	123427	10.02	ppb	100
35) Ethyl tert Butyl Ether	4.01	59	232927	10.79	ppb	100
36) MEK (2-Butanone)	4.12	43	215537	49.61	ppb	100
37) Cis-1,2-DCE	4.09	61	146351	10.37	ppb	100
38) 2,2-Dichloropropane	4.09	77	125509	10.38	ppb	100
41) Chloroform	4.37	83	162291	10.44	ppb	100
42) Bromochloromethane	4.29	49	81847	10.55	ppb	100
44) 1,1,1-TCA	4.52	97	147520	10.82	ppb	100
45) Cyclohexane	4.58	56	159102	10.68	ppb	100
46) 1,1-Dichloropropene	4.67	75	125832	10.88	ppb	100
47) 2,2,4-Trimethylpentane	4.93	57	322232	10.79	ppb	100
49) Carbon Tetrachloride	4.67	117	128140	10.89	ppb	100
50) Tert Amyl Methyl Ether	4.97	73	195274	10.62	ppb	100
51) Methylcyclopentane	4.00	56	14738	10.74	ppb	100
52) 1,2-DCA	4.85	62	126209	10.35	ppb	100
53) Benzene	4.84	78	373391	10.55	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z19.D Vial: 7
Acq On : 19 Oct 20 14:10 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54)	TCE	5.40	130	116292	10.52	ppb	100
55)	2-Pentanone	5.55	43	823520	124.53	ppb	100
56)	1,2-Dichloropropane	5.58	63	86768	10.57	ppb	100
57)	Bromodichloromethane	5.81	83	103386	10.52	ppb	100
58)	Methyl Cyclohexane	5.57	83	162632	10.87	ppb	100
59)	Dibromomethane	5.67	174	66752	10.58	ppb	100
60)	MIBK (methyl isobutyl ket	6.35	43	397997	51.16	ppb	100
61)	1-Bromo-2-chloroethane	6.08	144	15407	10.72	ppb	100
62)	2-Chloroethyl vinyl ether	6.08	43	200377	54.03	ppb	96
63)	Cis-1,3-Dichloropropene	6.20	75	129892	10.74	ppb	100
64)	Toluene	6.51	91	396708	10.57	ppb	100
65)	Trans-1,3-Dichloropropene	6.69	75	106978	10.85	ppb	100
66)	1,1,2-TCA	6.85	97	77163	10.35	ppb	100
67)	2-Hexanone	7.09	43	267637	50.91	ppb	100
70)	1,2-EDB	7.30	107	80062	10.47	ppb	100
71)	Tetrachloroethene	6.99	166	114061	10.51	ppb	100
72)	1-Chlorohexane	7.75	91	122944	9.78	ppb	100
73)	1,1,1,2-Tetrachloroethane	7.84	131	86742	11.23	ppb	100
74)	m&p-Xylene	7.98	91	675734	22.63	ppb	100
75)	o-Xylene	8.35	91	335903	11.27	ppb	100
76)	Styrene	8.36	104	262422	11.53	ppb	100
78)	1,3-Dichloropropane	7.00	76	127958	10.63	ppb	100
79)	Dibromochloromethane	7.20	129	79152	10.66	ppb	100
80)	Chlorobenzene	7.76	112	264472	10.42	ppb	100
81)	Ethylbenzene	7.87	91	431909	10.81	ppb	100
82)	Bromoform	8.51	173	48645	9.19	ppb	100
84)	Isopropylbenzene	8.70	105	435242	11.24	ppb	100
85)	1,1,2,2-Tetrachloroethane	8.97	83	91114	10.77	ppb	100
86)	1,2,3-Trichloropropane	9.01	110	33202	10.62	ppb	100
87)	t-1,4-Dichloro-2-Butene	9.03	53	23855	9.60	ppb	100
88)	Bromobenzene	8.97	77	183548	10.35	ppb	100
89)	n-Propylbenzene	9.09	91	530049	11.27	ppb	100
90)	4-Ethyltoluene	9.20	105	458398	11.47	ppb	100
91)	2-Chlorotoluene	9.16	91	352378	10.90	ppb	100
92)	1,3,5-Trimethylbenzene	9.26	105	391619	11.43	ppb	100
93)	4-Chlorotoluene	9.27	91	364568	11.06	ppb	100
94)	Tert-Butylbenzene	9.58	119	331272	11.21	ppb	100
95)	1,2,4-Trimethylbenzene	9.63	105	386254	10.18	ppb	100
96)	Sec-Butylbenzene	9.79	105	507190	11.08	ppb	100
97)	p-Isopropyltoluene	9.94	119	434944	11.46	ppb	100
98)	Benzyl Chloride	10.10	91	143082	9.01	ppb	100
99)	1,3-DCB	9.88	146	229734	10.49	ppb	100
100)	1,4-DCB	9.97	146	232438	10.16	ppb	100
101)	n-Butylbenzene	10.33	91	389976	11.29	ppb	100
102)	1,2-DCB	10.33	146	211096	10.69	ppb	100
103)	Hexachloroethane	10.59	201	47876	9.49	ppb	100
104)	1,2-Dibromo-3-chloropropan	11.08	157	19305	9.21	ppb	100
105)	1,2,4-Trichlorobenzene	11.91	180	141449	10.73	ppb	100
106)	Hexachlorobutadiene	12.11	225	74668	10.55	ppb	100
107)	Naphthalene	12.15	128	313800	9.31	ppb	100
108)	1,2,3-Trichlorobenzene	12.39	180	128111	10.60	ppb	100

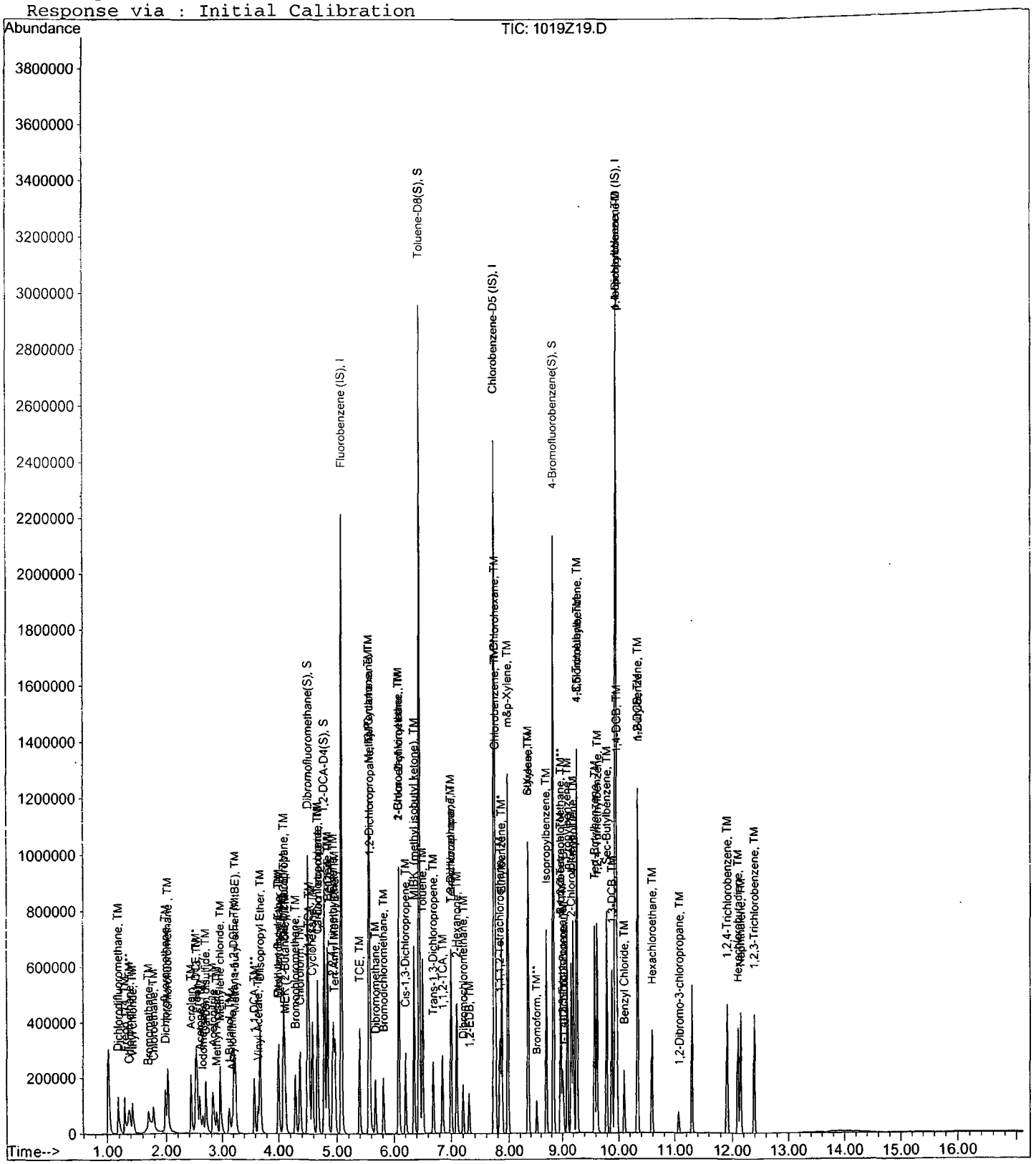
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z19.D Vial: 7
Acq On : 19 Oct 20 14:10 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z20.D Vial: 8
Acq On : 19 Oct 20 14:33 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1918105	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1381100	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	758629	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	1078826	53.68	ppb		0.00
Spiked Amount 25.000			Recovery = 214.728%				
48) 1,2-DCA-D4(S)	4.78	65	1141308	52.97	ppb		0.00
Spiked Amount 25.000			Recovery = 211.884%				
69) Toluene-D8(S)	6.44	98	3671502	53.37	ppb		0.00
Spiked Amount 25.000			Recovery = 213.468%				
77) 4-Bromofluorobenzene(S)	8.83	95	1385546	54.67	ppb		0.00
Spiked Amount 25.000			Recovery = 218.700%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	75121	19.61	ppb		84
4) Freon 114	1.29	85	64257	15.60	ppb		93
5) Chloromethane	1.37	50	265364	18.59	ppb		99
6) Vinyl chloride	1.43	62	215019	19.80	ppb		99
9) Bromomethane	1.70	94	59842	20.40	ppb		98
10) Chloroethane	1.78	64	70099	18.91	ppb		98
11) Dichlorofluoromethane	1.98	67	253811	19.10	ppb		99
12) Trichlorofluoromethane	2.02	101	298952	17.73	ppb		97
16) Acrolein	2.44	55	162398	159.15	ppb		92
17) Acetone	2.60	43	220174	60.22	ppb		98
18) Freon-113	2.54	101	185242	18.42	ppb		95
19) 1,1-DCE	2.52	61	281441	18.70	ppb		95
21) Acetonitrile	2.84	40	48663	125.40	ppb		99
22) t-Butanol	3.15	59	60880	150.69	ppb		97
23) Methyl Acetate	2.90	43	173985	19.77	ppb		100
24) Iodomethane	2.64	142	163936	15.58	ppb		95
25) Acrylonitrile	3.19	52	74129	21.13	ppb		99
26) Methylene chloride	2.97	84	210186	17.88	ppb		96
27) Carbon disulfide	2.70	76	280576	18.46	ppb		100
28) Methyl t-butyl ether (MtBE	3.25	73	469379	20.68	ppb		96
29) Trans-1,2-DCE	3.22	61	272043	19.21	ppb		96
31) Diisopropyl Ether	3.69	45	625631	21.21	ppb		99
33) 1,1-DCA	3.59	63	326472	19.14	ppb		98
34) Vinyl Acetate	3.65	43	280213	20.21	ppb		99
35) Ethyl tert Butyl Ether	4.01	59	522328	21.50	ppb		100
36) MEK (2-Butanone)	4.12	43	336379	68.80	ppb		99
37) Cis-1,2-DCE	4.09	61	302629	19.06	ppb		96
38) 2,2-Dichloropropane	4.09	77	263219	19.35	ppb		100
41) Chloroform	4.37	83	334610	19.13	ppb		96
42) Bromochloromethane	4.29	49	166492	19.08	ppb		98
44) 1,1,1-TCA	4.52	97	299942	19.55	ppb		98
45) Cyclohexane	4.58	56	327178	19.52	ppb		95
46) 1,1-Dichloropropene	4.67	75	259713	19.96	ppb		97
47) 2,2,4-Trimethylpentane	4.93	57	683478	20.35	ppb		99
49) Carbon Tetrachloride	4.67	117	255405	19.28	ppb		98
50) Tert Amyl Methyl Ether	4.97	73	454888	21.99	ppb		93
51) Methylcyclopentane	4.01	56	29793	19.29	ppb	#	100
52) 1,2-DCA	4.84	62	252566	18.41	ppb		100
53) Benzene	4.84	78	776317	19.49	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z20.D Vial: 8
Acq On : 19 Oct 20 14:33 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	245767	19.75	ppb		95
55)	2-Pentanone	5.55	43	1315203	176.75	ppb		98
56)	1,2-Dichloropropane	5.58	63	180735	19.57	ppb	#	97
57)	Bromodichloromethane	5.81	83	223808	20.24	ppb		98
58)	Methyl Cyclohexane	5.57	83	332504	19.76	ppb		98
59)	Dibromomethane	5.67	174	137467	19.37	ppb		94
60)	MIBK (methyl isobutyl ket	6.35	43	613196	70.04	ppb		96
61)	1-Bromo-2-chloroethane	6.08	144	33774	20.88	ppb		100
62)	2-Chloroethyl vinyl ether	6.08	43	284293	68.13	ppb		99
63)	Cis-1,3-Dichloropropene	6.20	75	287466	21.13	ppb		99
64)	Toluene	6.51	91	845150	20.01	ppb		98
65)	Trans-1,3-Dichloropropene	6.69	75	244081	22.01	ppb		98
66)	1,1,2-TCA	6.85	97	168689	20.10	ppb		96
67)	2-Hexanone	7.09	43	428924	72.51	ppb		99
70)	1,2-EDB	7.30	107	182778	21.19	ppb		99
71)	Tetrachloroethene	6.99	166	240054	19.62	ppb		97
72)	1-Chlorohexane	7.75	91	260758	18.40	ppb		98
73)	1,1,1,2-Tetrachloroethane	7.84	131	189337	21.73	ppb		99
74)	m&p-Xylene	7.98	91	1405190	41.73	ppb		99
75)	o-Xylene	8.35	91	710979	21.16	ppb		97
76)	Styrene	8.36	104	570455	22.23	ppb		100
78)	1,3-Dichloropropane	7.00	76	274133	20.20	ppb		100
79)	Dibromochloromethane	7.20	129	178528	21.33	ppb		100
80)	Chlorobenzene	7.76	112	553494	19.35	ppb		99
81)	Ethylbenzene	7.87	91	918418	20.39	ppb		100
82)	Bromoform	8.51	173	119444	17.84	ppb		99
84)	Isopropylbenzene	8.70	105	931489	22.10	ppb		100
85)	1,1,2,2-Tetrachloroethane	8.97	83	211639	22.97	ppb		100
86)	1,2,3-Trichloropropane	9.01	110	76339	22.42	ppb		91
87)	t-1,4-Dichloro-2-Butene	9.02	53	57391	18.89	ppb		98
88)	Bromobenzene	8.97	77	397132	20.57	ppb		98
89)	n-Propylbenzene	9.09	91	1107932	21.63	ppb		99
90)	4-Ethyltoluene	9.20	105	950881	21.85	ppb		100
91)	2-Chlorotoluene	9.16	91	746555	21.21	ppb		100
92)	1,3,5-Trimethylbenzene	9.26	105	802367	21.51	ppb		100
93)	4-Chlorotoluene	9.27	91	750210	20.89	ppb		98
94)	Tert-Butylbenzene	9.58	119	703595	21.87	ppb		100
95)	1,2,4-Trimethylbenzene	9.62	105	820035	19.42	ppb		99
96)	Sec-Butylbenzene	9.79	105	1070377	21.47	ppb		98
97)	p-Isopropyltoluene	9.94	119	911322	22.05	ppb		99
98)	Benzyl Chloride	10.10	91	359046	18.11	ppb		99
99)	1,3-DCB	9.88	146	478282	20.06	ppb		99
100)	1,4-DCB	9.97	146	481732	19.33	ppb		99
101)	n-Butylbenzene	10.33	91	836867	22.24	ppb		96
102)	1,2-DCB	10.33	146	439008	20.42	ppb		99
103)	Hexachloroethane	10.59	201	116085	17.61	ppb		88
104)	1,2-Dibromo-3-chloropropan	11.08	157	50253	18.55	ppb		95
105)	1,2,4-Trichlorobenzene	11.91	180	310501	21.62	ppb		97
106)	Hexachlorobutadiene	12.10	225	158002	20.50	ppb		95
107)	Naphthalene	12.15	128	762672	19.63	ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	281373	21.38	ppb		99

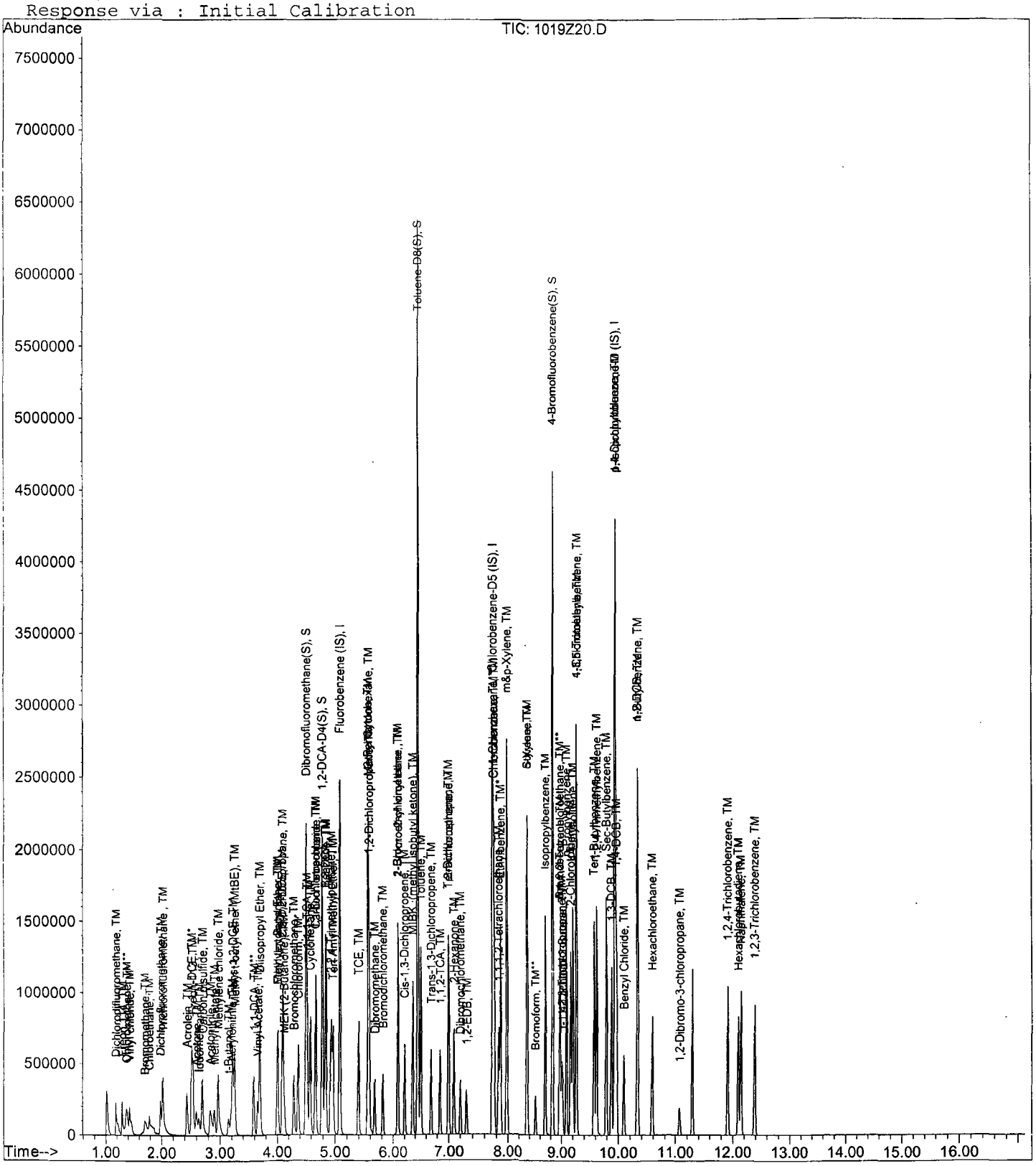
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z20.D Vial: 8
Acq On : 19 Oct 20 14:33 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z21.D Vial: 9
Acq On : 19 Oct 20 14:57 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1998622	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1434263	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	781045	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	1116412	53.31	ppb		0.00
Spiked Amount 25.000			Recovery = 213.260%				
48) 1,2-DCA-D4(S)	4.78	65	1191997	53.09	ppb		0.00
Spiked Amount 25.000			Recovery = 212.376%				
69) Toluene-D8(S)	6.44	98	3860156	54.03	ppb		0.00
Spiked Amount 25.000			Recovery = 216.116%				
77) 4-Bromofluorobenzene(S)	8.83	95	1461186	55.52	ppb		0.00
Spiked Amount 25.000			Recovery = 222.088%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	148582	37.23	ppb		91
4) Freon 114	1.29	85	156893	36.54	ppb		98
5) Chloromethane	1.38	50	547970	36.84	ppb		98
6) Vinyl chloride	1.43	62	453370	40.07	ppb		99
9) Bromomethane	1.70	94	120845	41.46	ppb		100
10) Chloroethane	1.78	64	142411	36.88	ppb		98
11) Dichlorofluoromethane	1.98	67	536426	39.87	ppb		99
12) Trichlorofluoromethane	2.02	101	614637	34.98	ppb		100
16) Acrolein	2.44	55	189778	178.49	ppb		96
17) Acetone	2.60	43	285255	74.88	ppb		99
18) Freon-113	2.54	101	410308	39.15	ppb		96
19) 1,1-DCE	2.51	61	609404	38.86	ppb		97
21) Acetonitrile	2.84	40	52734	130.42	ppb		99
22) t-Butanol	3.15	59	57704	137.14	ppb		99
23) Methyl Acetate	2.90	43	346966	37.84	ppb		99
24) Iodomethane	2.64	142	445094	37.48	ppb		98
25) Acrylonitrile	3.19	52	149823	40.99	ppb		96
26) Methylene chloride	2.96	84	449647	36.70	ppb		96
27) Carbon disulfide	2.69	76	654464	41.32	ppb		98
28) Methyl t-butyl ether (MtBE	3.25	73	1001639	42.35	ppb		98
29) Trans-1,2-DCE	3.21	61	574282	38.92	ppb		98
31) Diisopropyl Ether	3.69	45	1340213	43.61	ppb		99
33) 1,1-DCA	3.59	63	691760	38.93	ppb		99
34) Vinyl Acetate	3.65	43	645478	44.68	ppb		98
35) Ethyl tert Butyl Ether	4.01	59	1130107	44.65	ppb		99
36) MEK (2-Butanone)	4.12	43	441342	86.63	ppb		99
37) Cis-1,2-DCE	4.09	61	648054	39.18	ppb		96
38) 2,2-Dichloropropane	4.09	77	569496	40.19	ppb		98
41) Chloroform	4.37	83	704367	38.65	ppb		99
42) Bromochloromethane	4.29	49	352756	38.79	ppb		99
44) 1,1,1-TCA	4.52	97	641123	40.10	ppb		99
45) Cyclohexane	4.58	56	726725	41.61	ppb		97
46) 1,1-Dichloropropene	4.67	75	553107	40.79	ppb		96
47) 2,2,4-Trimethylpentane	4.93	57	1568133	44.80	ppb		100
49) Carbon Tetrachloride	4.67	117	565538	40.98	ppb		99
50) Tert Amyl Methyl Ether	4.97	73	977667	45.37	ppb		91
51) Methylcyclopentane	4.01	56	57476	35.72	ppb	#	100
52) 1,2-DCA	4.84	62	528511	36.96	ppb		100
53) Benzene	4.84	78	1616809	38.96	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z21.D Vial: 9
Acq On : 19 Oct 20 14:57 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.40	130	515147	39.73	ppb		93
55)	2-Pentanone	5.56	43	1509165	194.64	ppb		100
56)	1,2-Dichloropropane	5.58	63	378934	39.38	ppb	#	95
57)	Bromodichloromethane	5.81	83	490955	42.61	ppb		99
58)	Methyl Cyclohexane	5.57	83	729907	41.62	ppb		97
59)	Dibromomethane	5.67	174	295559	39.97	ppb		96
60)	MIBK (methyl isobutyl ket	6.35	43	830688	91.06	ppb		94
61)	1-Bromo-2-chloroethane	6.08	144	69908	41.48	ppb		100
62)	2-Chloroethyl vinyl ether	6.08	43	393199	90.43	ppb		99
63)	Cis-1,3-Dichloropropene	6.20	75	629736	44.42	ppb		99
64)	Toluene	6.50	91	1777981	40.41	ppb		99
65)	Trans-1,3-Dichloropropene	6.69	75	538202	46.57	ppb		98
66)	1,1,2-TCA	6.85	97	358792	41.04	ppb		95
67)	2-Hexanone	7.09	43	566632	91.93	ppb		98
70)	1,2-EDB	7.30	107	387315	43.25	ppb		99
71)	Tetrachloroethene	6.99	166	506387	39.85	ppb		97
72)	1-Chlorohexane	7.75	91	557152	37.86	ppb		98
73)	1,1,1,2-Tetrachloroethane	7.84	131	414973	45.86	ppb		99
74)	m&p-Xylene	7.98	91	2897163	82.84	ppb		99
75)	o-Xylene	8.35	91	1477194	42.33	ppb		99
76)	Styrene	8.36	104	1204364	45.19	ppb		99
78)	1,3-Dichloropropane	7.00	76	578167	41.02	ppb		99
79)	Dibromochloromethane	7.20	129	402917	46.36	ppb		99
80)	Chlorobenzene	7.76	112	1150301	38.72	ppb		99
81)	Ethylbenzene	7.87	91	1951433	41.72	ppb		99
82)	Bromoform	8.51	173	276368	37.47	ppb		100
84)	Isopropylbenzene	8.70	105	2000001	46.08	ppb		99
85)	1,1,2,2-Tetrachloroethane	8.97	83	440302	46.41	ppb		99
86)	1,2,3-Trichloropropane	9.01	110	157935	45.06	ppb		89
87)	t-1,4-Dichloro-2-Butene	9.02	53	123521	37.41	ppb		89
88)	Bromobenzene	8.97	77	837570	42.14	ppb		98
89)	n-Propylbenzene	9.09	91	2357357	44.70	ppb		100
90)	4-Ethyltoluene	9.20	105	2026381	45.22	ppb		100
91)	2-Chlorotoluene	9.16	91	1566683	43.23	ppb		100
92)	1,3,5-Trimethylbenzene	9.26	105	1676281	43.64	ppb		99
93)	4-Chlorotoluene	9.27	91	1548037	41.88	ppb		96
94)	Tert-Butylbenzene	9.58	119	1529610	46.17	ppb		96
95)	1,2,4-Trimethylbenzene	9.62	105	1742365	39.60	ppb		100
96)	Sec-Butylbenzene	9.79	105	2317561	45.14	ppb		99
97)	p-Isopropyltoluene	9.94	119	1938986	45.56	ppb		100
98)	Benzyl Chloride	10.10	91	801446	36.89	ppb		98
99)	1,3-DCB	9.88	146	1013913	41.31	ppb		98
100)	1,4-DCB	9.97	146	1011458	39.43	ppb		99
101)	n-Butylbenzene	10.33	91	1781549	45.99	ppb		96
102)	1,2-DCB	10.33	146	913137	41.25	ppb		98
103)	Hexachloroethane	10.59	201	266286	35.71	ppb	#	79
104)	1,2-Dibromo-3-chloropropan	11.08	157	109718	36.56	ppb		98
105)	1,2,4-Trichlorobenzene	11.91	180	662544	44.81	ppb		99
106)	Hexachlorobutadiene	12.10	225	343264	43.26	ppb		96
107)	Naphthalene	12.15	128	1589306	38.76	ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	595600	43.95	ppb		99

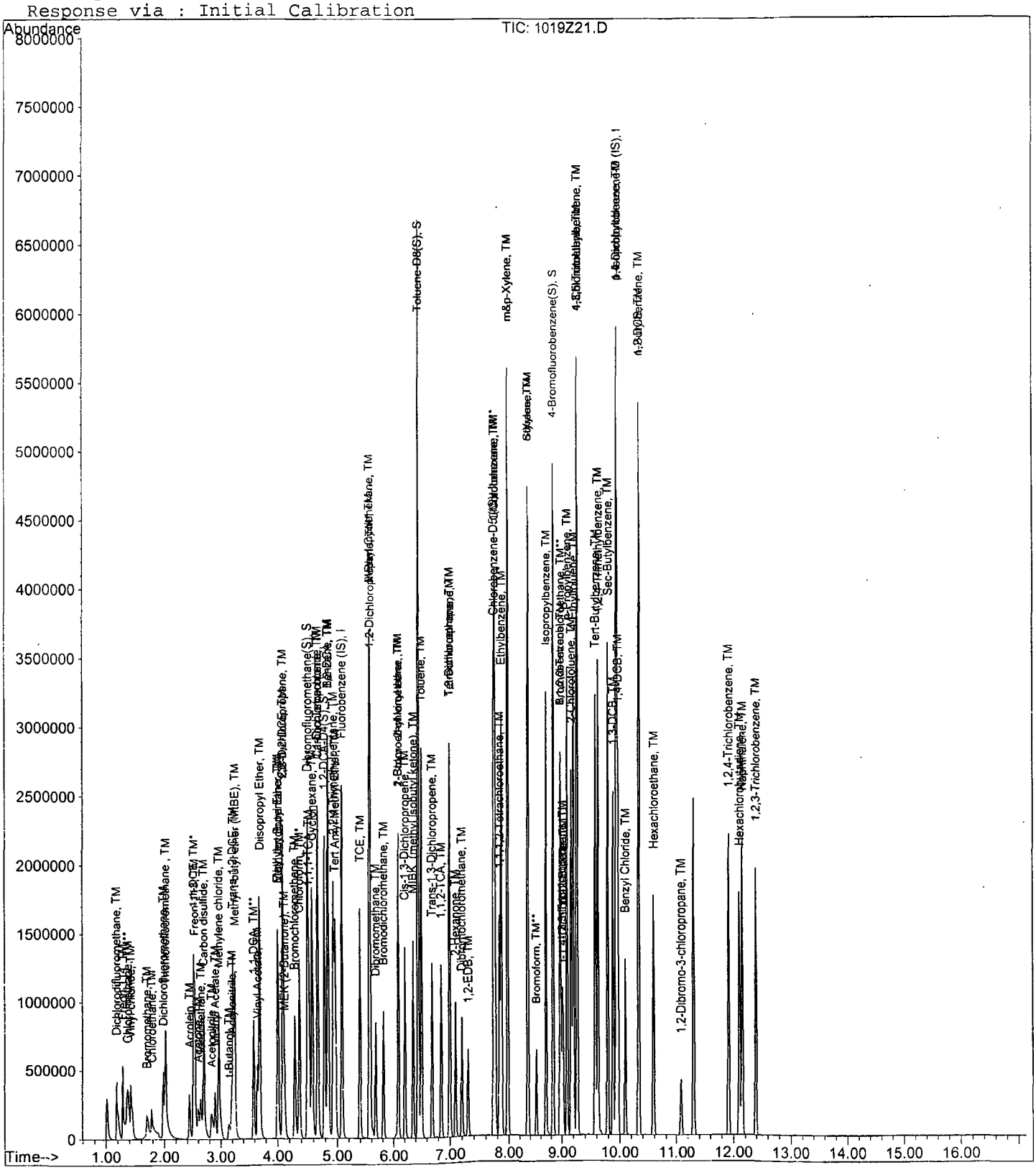
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z21.D Vial: 9
Acq On : 19 Oct 20 14:57 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z22.D Vial: 10
Acq On : 19 Oct 20 15:20 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2206006	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1547723	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	795829	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	2327779	100.71	ppb		0.00
Spiked Amount 25.000			Recovery = 402.852%				
48) 1,2-DCA-D4(S)	4.78	65	2459006	99.23	ppb		0.00
Spiked Amount 25.000			Recovery = 396.932%				
69) Toluene-D8(S)	6.44	98	7570877	98.20	ppb		0.00
Spiked Amount 25.000			Recovery = 392.796%				
77) 4-Bromofluorobenzene(S)	8.83	95	3038789	107.00	ppb		0.00
Spiked Amount 25.000			Recovery = 428.016%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	399784	90.75	ppb		85
4) Freon 114	1.29	85	398803	84.16	ppb		94
5) Chloromethane	1.38	50	1413624	86.09	ppb		100
6) Vinyl chloride	1.43	62	1182533	94.69	ppb		99
9) Bromomethane	1.70	94	310128	99.13	ppb		99
10) Chloroethane	1.78	64	345872	81.14	ppb		96
11) Dichlorofluoromethane	1.97	67	830513	56.36	ppb		99
12) Trichlorofluoromethane	2.01	101	876934	45.22	ppb		98
16) Acrolein	2.44	55	224327	191.15	ppb		96
17) Acetone	2.61	43	375518	89.30	ppb		96
18) Freon-113	2.53	101	1094132	94.58	ppb		96
19) 1,1-DCE	2.51	61	1656903	95.73	ppb		96
21) Acetonitrile	2.85	40	48955	109.69	ppb		96
22) t-Butanol	3.17	59	52412	112.99	ppb		93
23) Methyl Acetate	2.90	43	991259	97.94	ppb		99
24) Iodomethane	2.64	142	1382159	101.92	ppb		96
25) Acrylonitrile	3.19	52	409922	101.60	ppb		98
26) Methylene chloride	2.96	84	1210601	89.52	ppb		96
27) Carbon disulfide	2.69	76	1687552	96.54	ppb		100
28) Methyl t-butyl ether (MtBE	3.26	73	2707077	103.69	ppb		96
29) Trans-1,2-DCE	3.21	61	1537886	94.42	ppb		98
31) Diisopropyl Ether	3.70	45	3656994	107.82	ppb		98
33) 1,1-DCA	3.58	63	1874850	95.59	ppb		99
34) Vinyl Acetate	3.65	43	1557567	97.67	ppb		98
35) Ethyl tert Butyl Ether	4.01	59	3147721	112.67	ppb		98
36) MEK (2-Butanone)	4.13	43	604289	107.47	ppb		98
37) Cis-1,2-DCE	4.09	61	1686243	92.36	ppb		95
38) 2,2-Dichloropropane	4.09	77	1510392	96.56	ppb		96
41) Chloroform	4.37	83	1865406	92.74	ppb		98
42) Bromochloromethane	4.29	49	929698	92.63	ppb		98
44) 1,1,1-TCA	4.52	97	1699376	96.30	ppb		99
45) Cyclohexane	4.58	56	1964786	101.92	ppb		97
46) 1,1-Dichloropropene	4.67	75	1437178	96.03	ppb		98
47) 2,2,4-Trimethylpentane	4.93	57	4295280	111.17	ppb		99
49) Carbon Tetrachloride	4.67	117	1520788	99.84	ppb		99
50) Tert Amyl Methyl Ether	4.97	73	2697665	113.41	ppb		91
51) Methylcyclopentane	4.01	56	146957	82.75	ppb	#	100
52) 1,2-DCA	4.84	62	1374855	87.12	ppb		97
53) Benzene	4.84	78	4102509	89.56	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z22.D Vial: 10
Acq On : 19 Oct 20 15:20 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.40	130	1373780	96.00	ppb		92
55)	2-Pentanone	5.56	43	1936117	226.23	ppb		96
56)	1,2-Dichloropropane	5.58	63	973662	91.68	ppb	#	97
57)	Bromodichloromethane	5.81	83	1361764	107.08	ppb		99
58)	Methyl Cyclohexane	5.56	83	1869406	96.57	ppb		92
59)	Dibromomethane	5.67	174	798492	97.83	ppb		95
60)	MIBK (methyl isobutyl ket	6.35	43	1170667	116.27	ppb		96
61)	1-Bromo-2-chloroethane	6.08	144	176568	94.92	ppb		100
62)	2-Chloroethyl vinyl ether	6.08	43	548776	114.34	ppb		100
63)	Cis-1,3-Dichloropropene	6.21	75	1725203	110.24	ppb		96
64)	Toluene	6.50	91	4592478	94.55	ppb		100
65)	Trans-1,3-Dichloropropene	6.69	75	1490099	116.82	ppb		97
66)	1,1,2-TCA	6.85	97	956316	99.10	ppb		94
67)	2-Hexanone	7.09	43	789354	116.02	ppb		99
70)	1,2-EDB	7.30	107	1054318	109.10	ppb		99
71)	Tetrachloroethene	6.99	166	1307413	95.33	ppb		97
72)	1-Chlorohexane	7.75	91	1434250	90.31	ppb		95
73)	1,1,1,2-Tetrachloroethane	7.84	131	1135378	116.28	ppb		99
74)	m&p-Xylene	7.99	91	7033338	186.36	ppb		99
75)	o-Xylene	8.35	91	3733293	99.14	ppb		96
76)	Styrene	8.36	104	3026473	105.24	ppb		93
78)	1,3-Dichloropropane	7.00	76	1483729	97.55	ppb		99
79)	Dibromochloromethane	7.20	129	1147941	122.39	ppb		99
80)	Chlorobenzene	7.76	112	2864682	89.35	ppb		97
81)	Ethylbenzene	7.87	91	5064781	100.33	ppb		100
82)	Bromoform	8.51	173	834383	101.49	ppb		99
84)	Isopropylbenzene	8.70	105	5199317	117.58	ppb		100
85)	1,1,2,2-Tetrachloroethane	8.97	83	1136270	117.54	ppb		99
86)	1,2,3-Trichloropropane	9.01	110	428679	120.02	ppb		92
87)	t-1,4-Dichloro-2-Butene	9.03	53	352184	101.25	ppb	#	84
88)	Bromobenzene	8.97	77	2229549	110.09	ppb		100
89)	n-Propylbenzene	9.09	91	6100153	113.53	ppb		100
90)	4-Ethyltoluene	9.21	105	5217835	114.27	ppb		99
91)	2-Chlorotoluene	9.16	91	4085174	110.63	ppb		100
92)	1,3,5-Trimethylbenzene	9.26	105	4119648	105.26	ppb		96
93)	4-Chlorotoluene	9.27	91	3832542	101.75	ppb		93
94)	Tert-Butylbenzene	9.58	119	3958227	117.27	ppb		99
95)	1,2,4-Trimethylbenzene	9.63	105	4526143	100.26	ppb		100
96)	Sec-Butylbenzene	9.79	105	5901060	112.81	ppb		96
97)	p-Isopropyltoluene	9.94	119	4957128	114.32	ppb		99
98)	Benzyl Chloride	10.10	91	2334311	101.68	ppb		98
99)	1,3-DCB	9.88	146	2647670	105.87	ppb		99
100)	1,4-DCB	9.97	146	2629351	100.59	ppb		100
101)	n-Butylbenzene	10.33	91	4400313	111.48	ppb		96
102)	1,2-DCB	10.32	146	2227869	98.78	ppb		99
103)	Hexachloroethane	10.59	201	820115	102.14	ppb	#	71
104)	1,2-Dibromo-3-chloropropan	11.08	157	325386	101.67	ppb		97
105)	1,2,4-Trichlorobenzene	11.91	180	1784514	118.45	ppb		98
106)	Hexachlorobutadiene	12.10	225	921179	113.93	ppb		95
107)	Naphthalene	12.15	128	4269791	100.65	ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	1586644	114.90	ppb		100

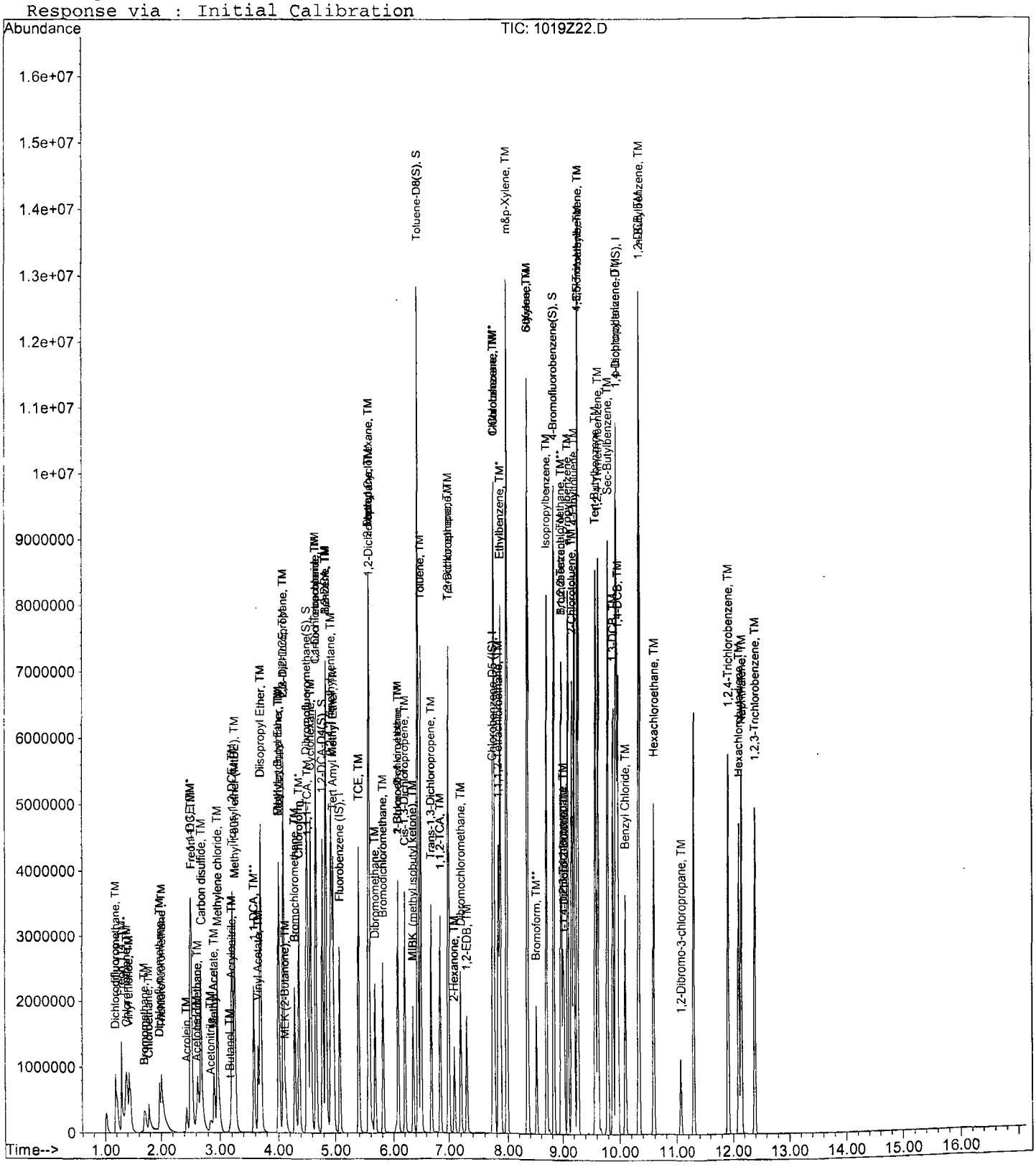
(#) = qualifier out of range (m) = manual integration

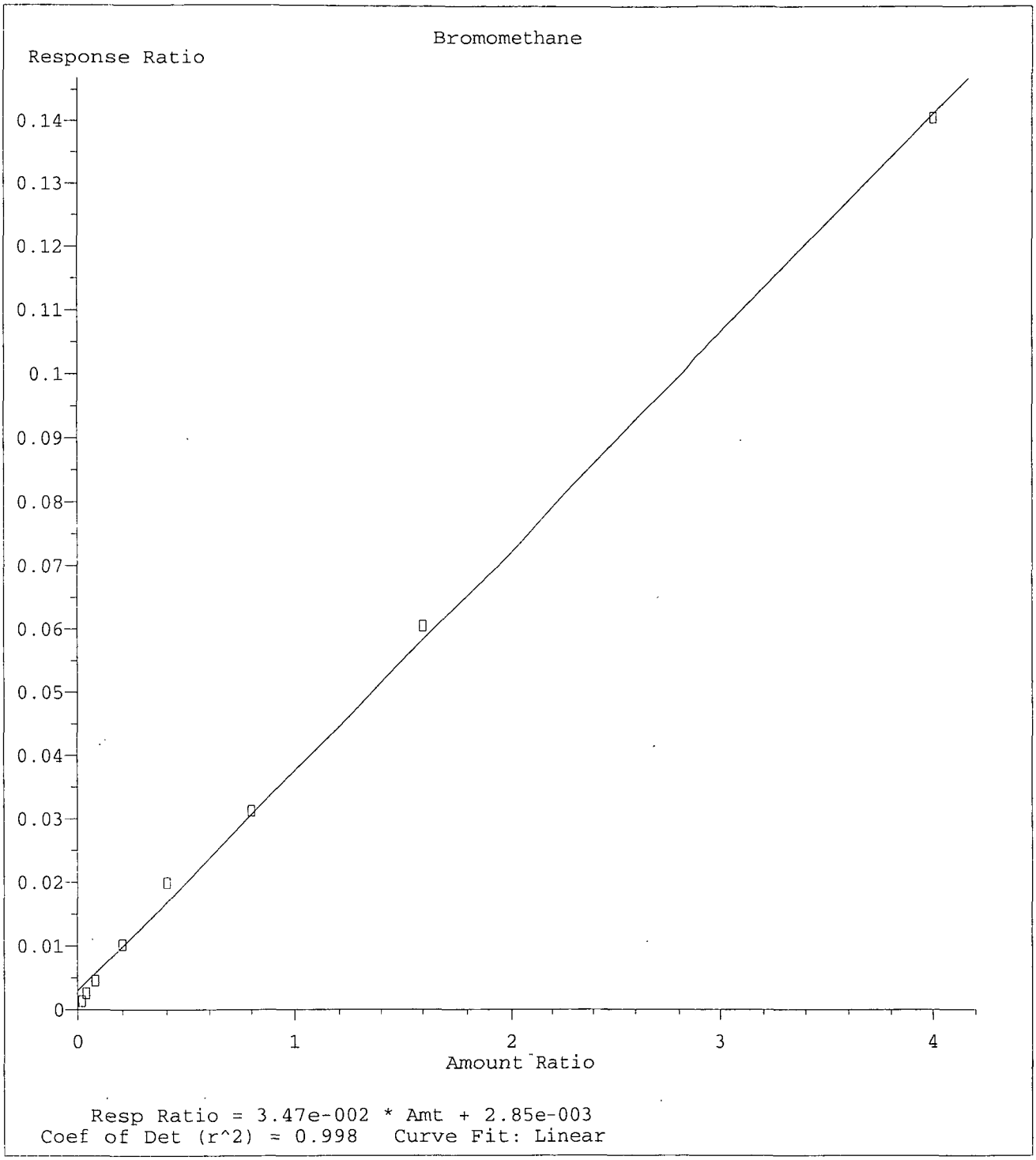
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z22.D Vial: 10
Acq On : 19 Oct 20 15:20 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

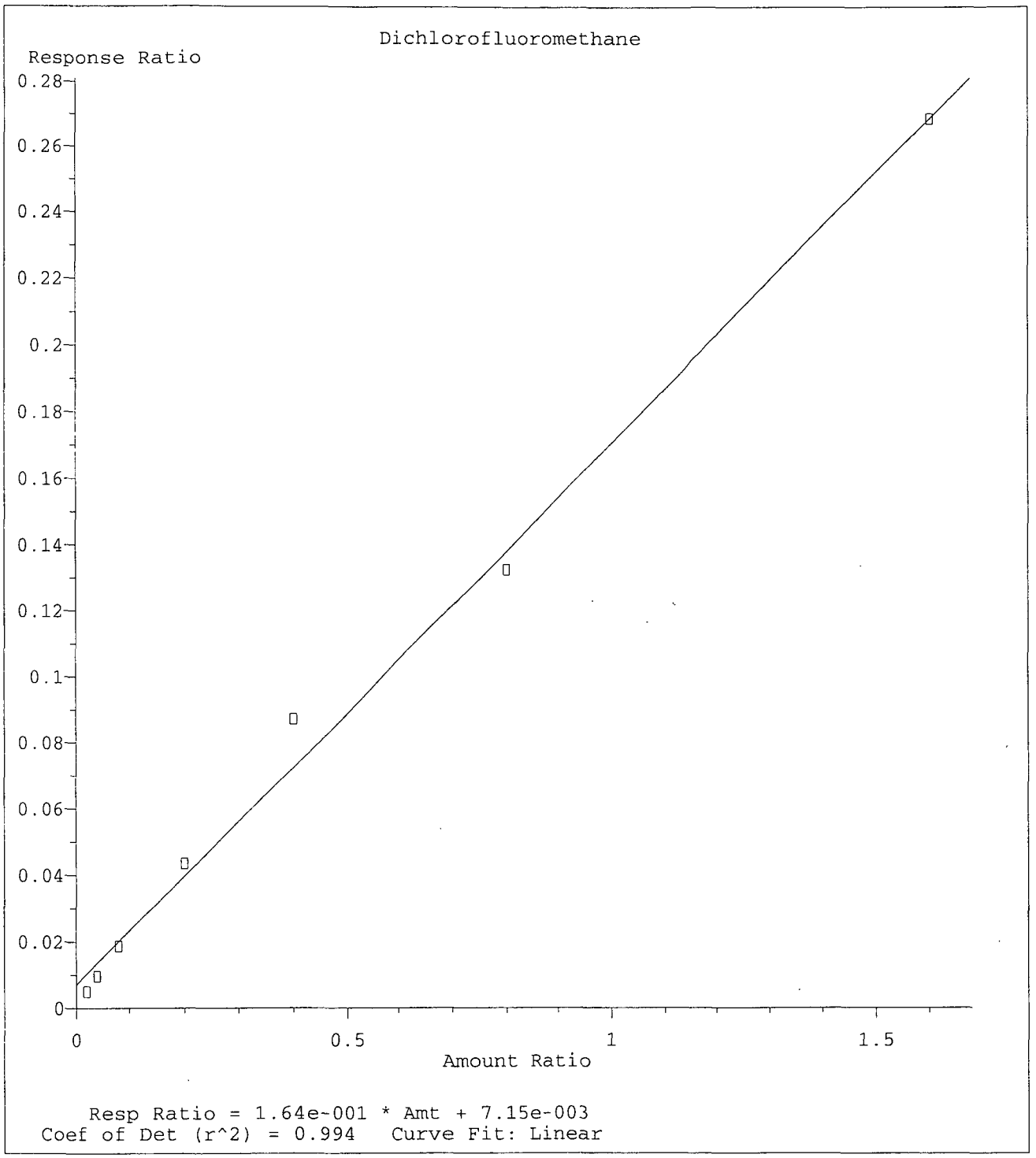
Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration





Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



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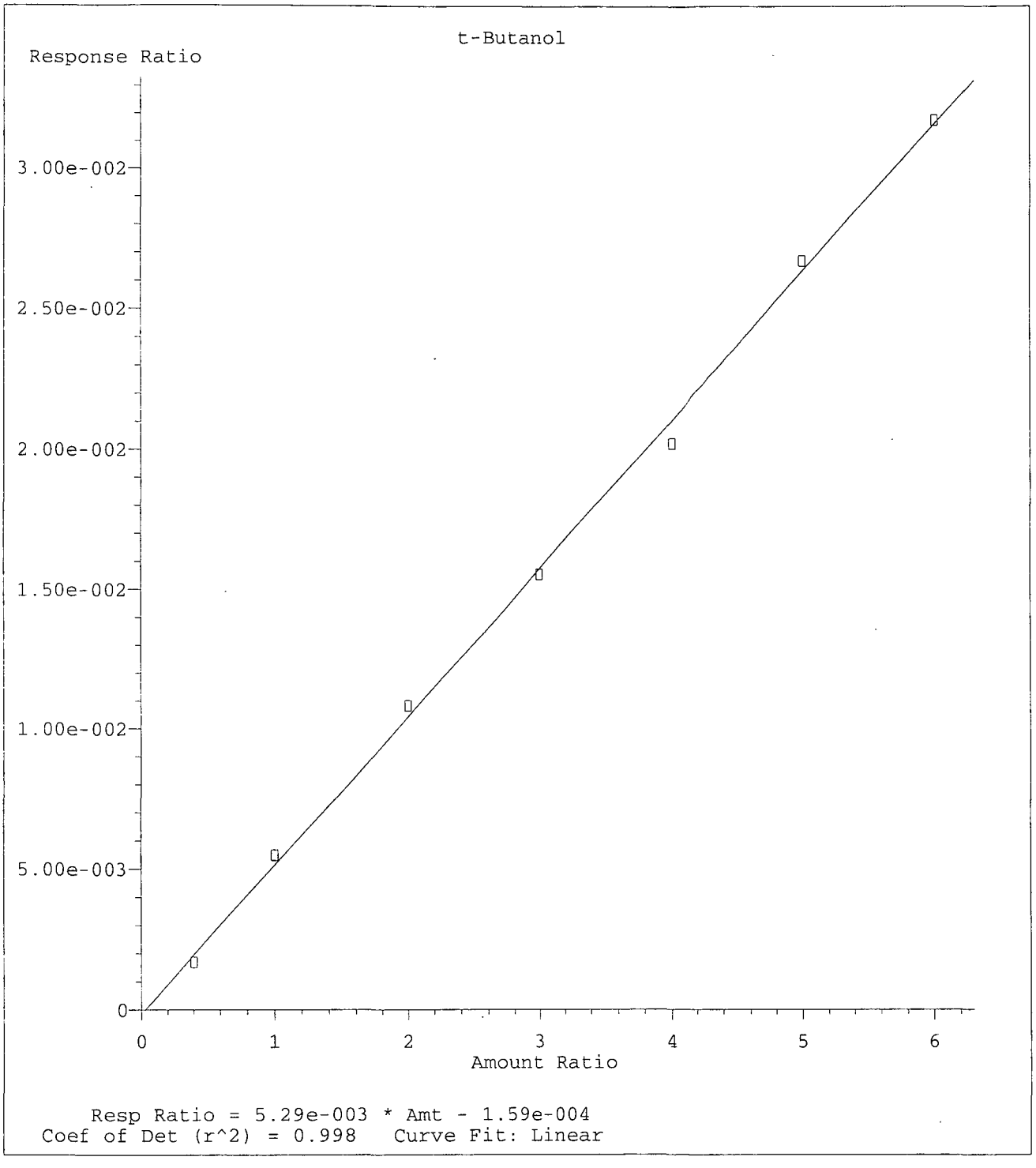
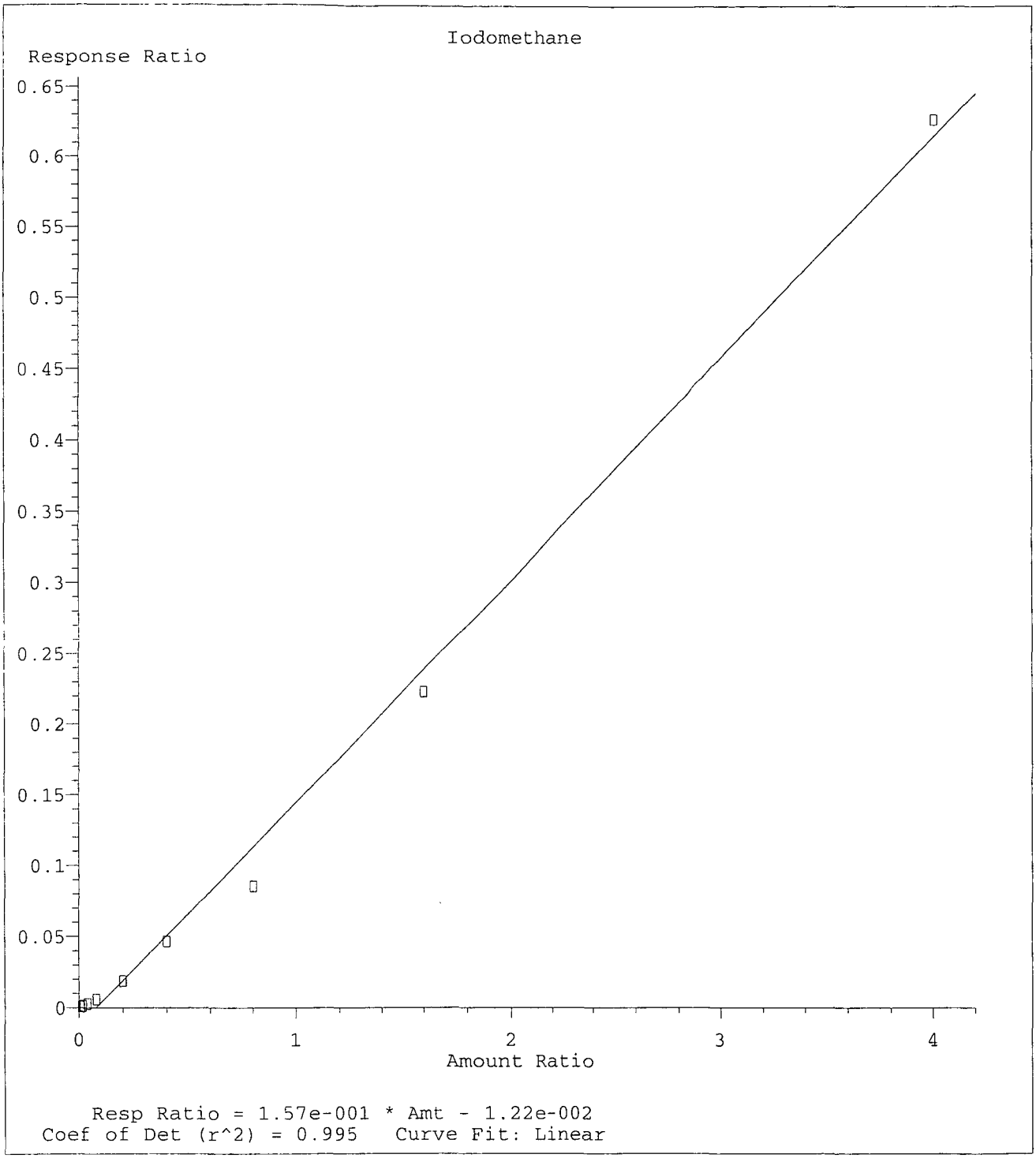
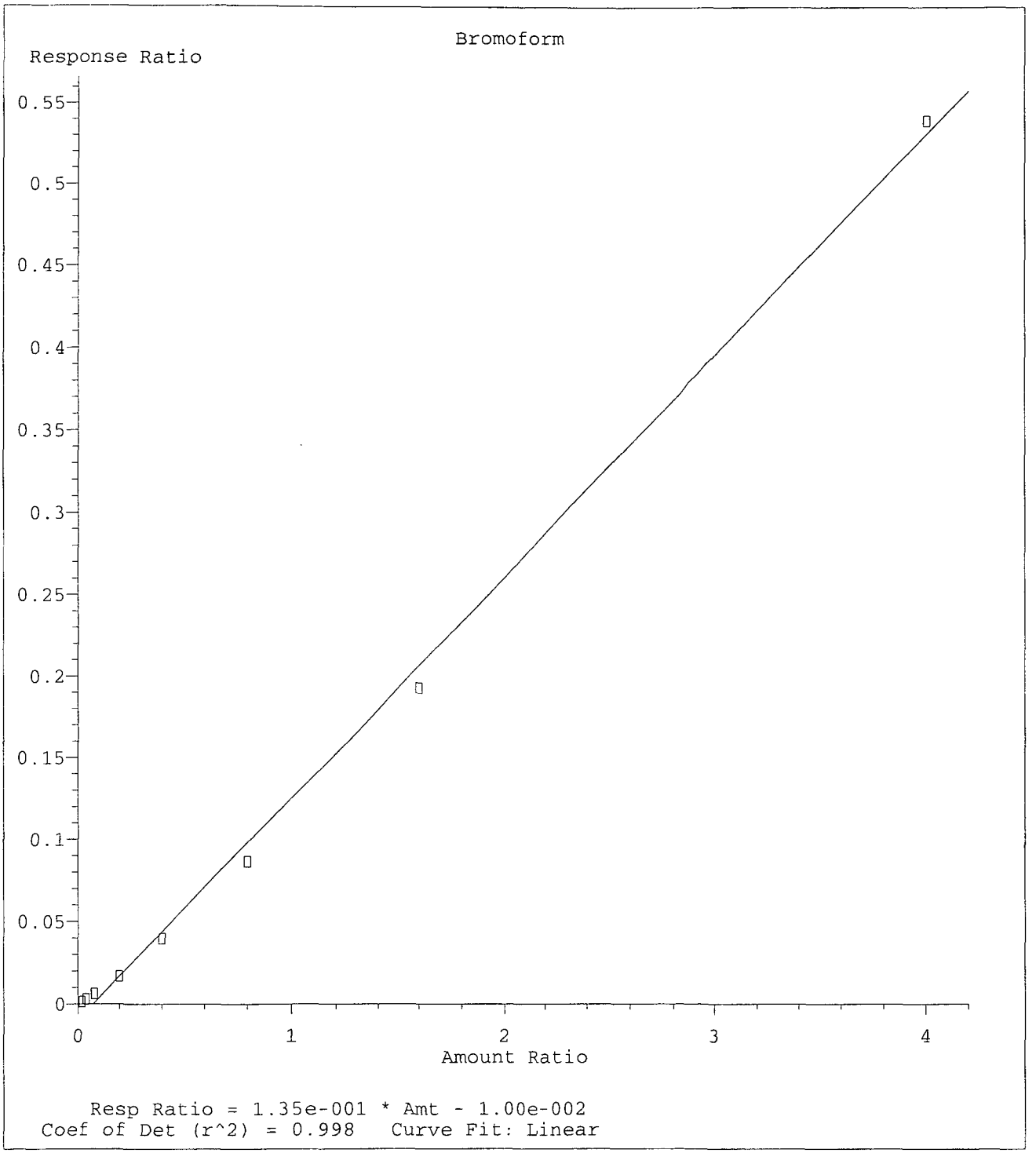
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



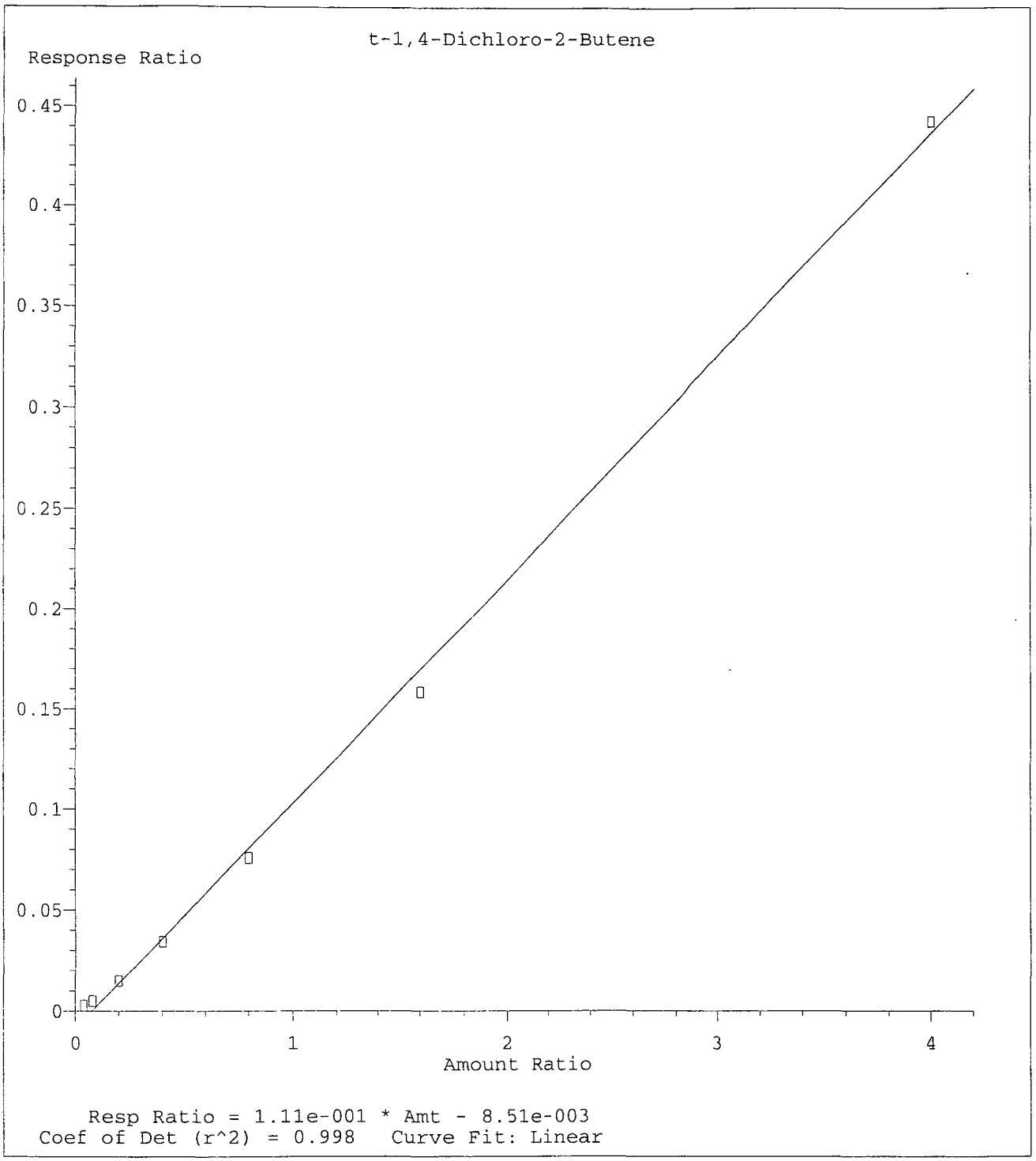
Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



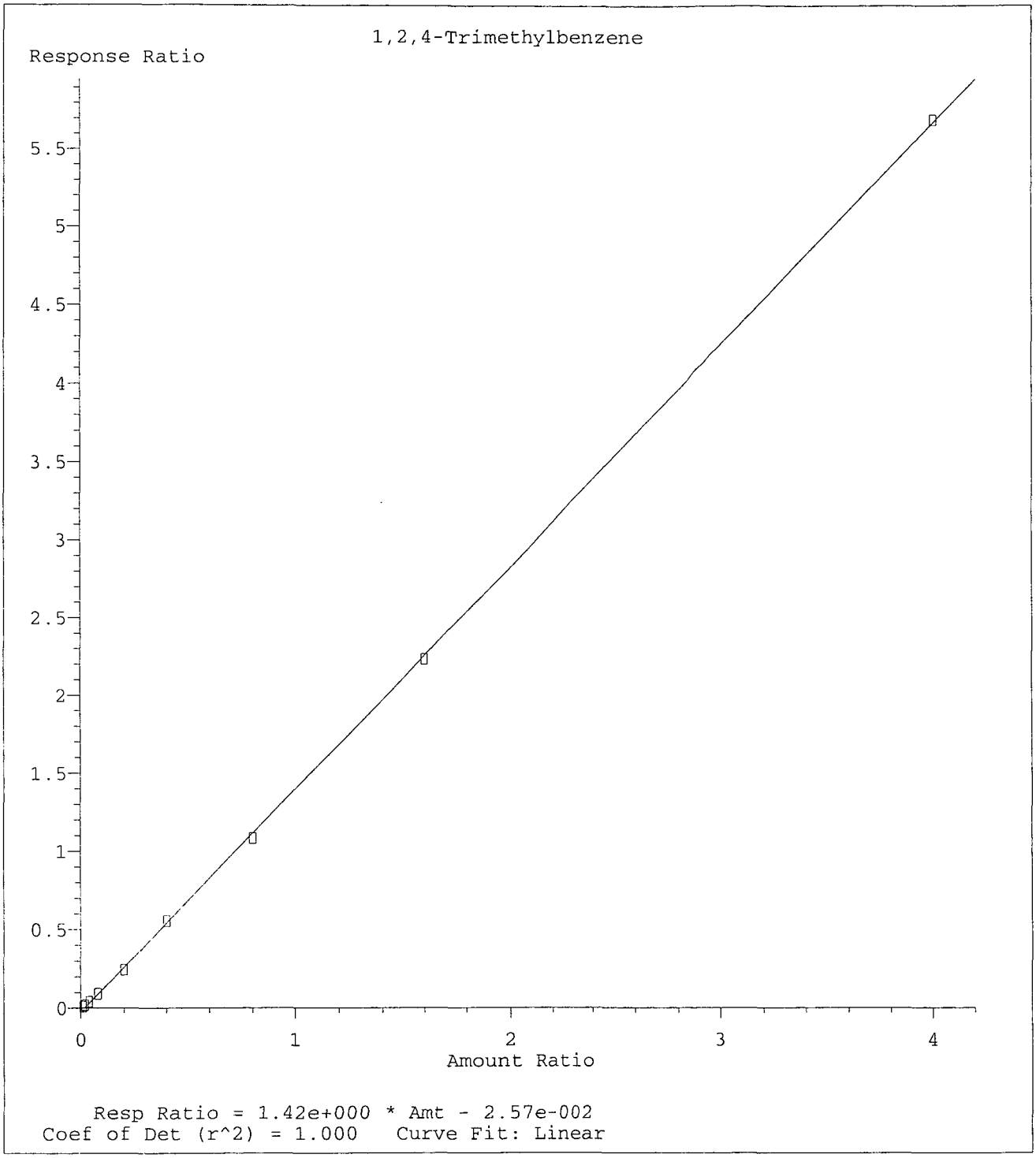
Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



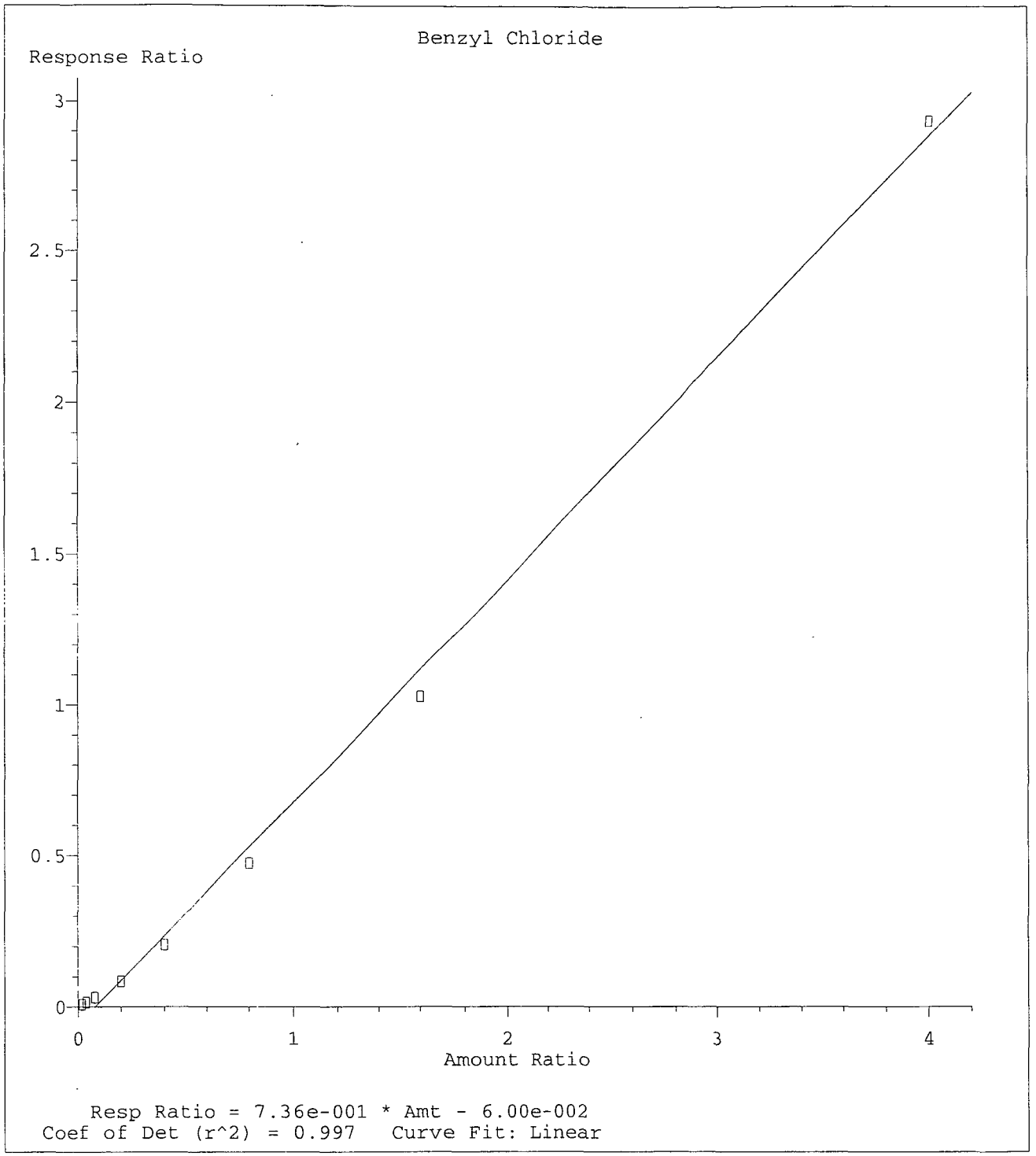
Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



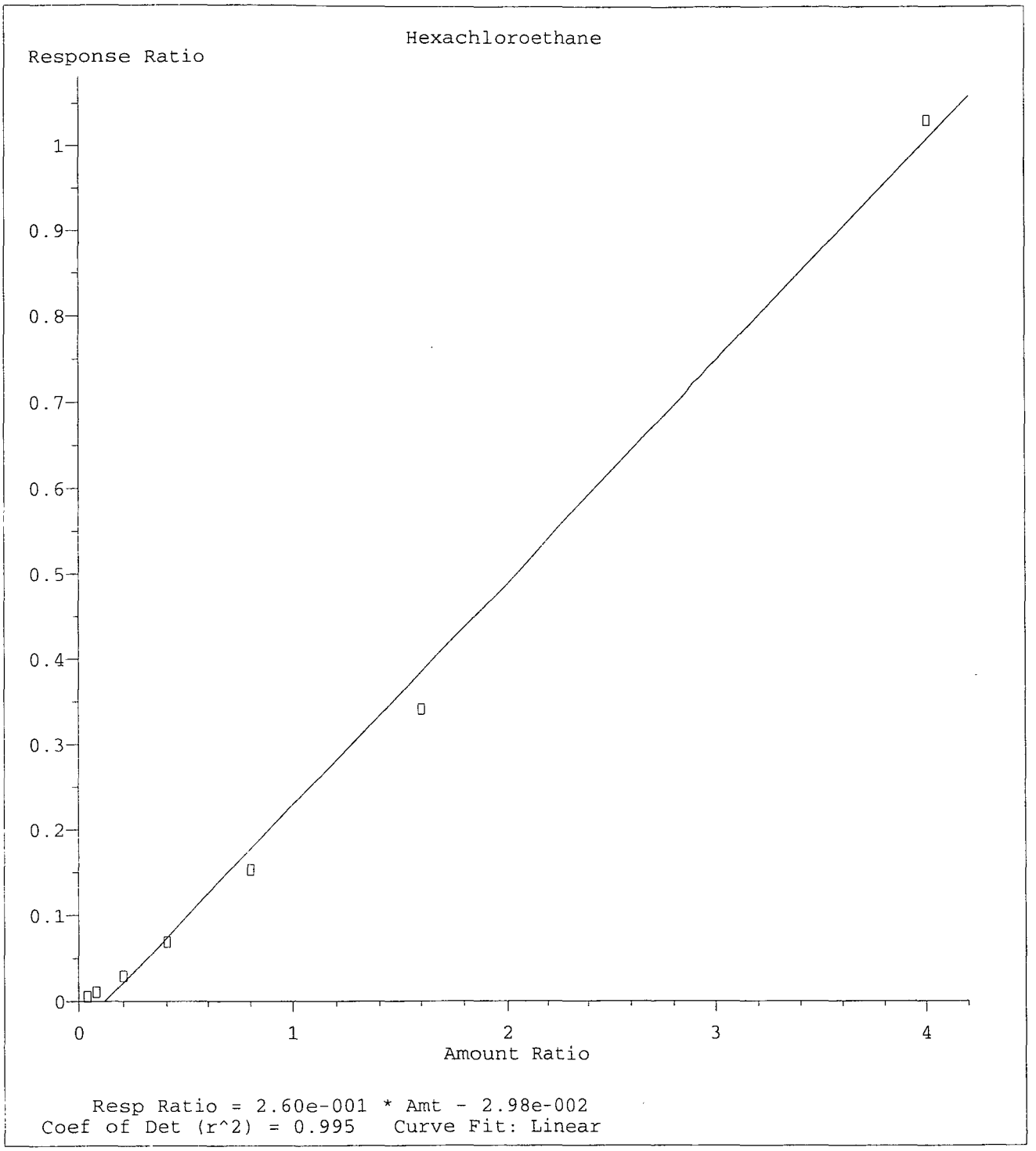
Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



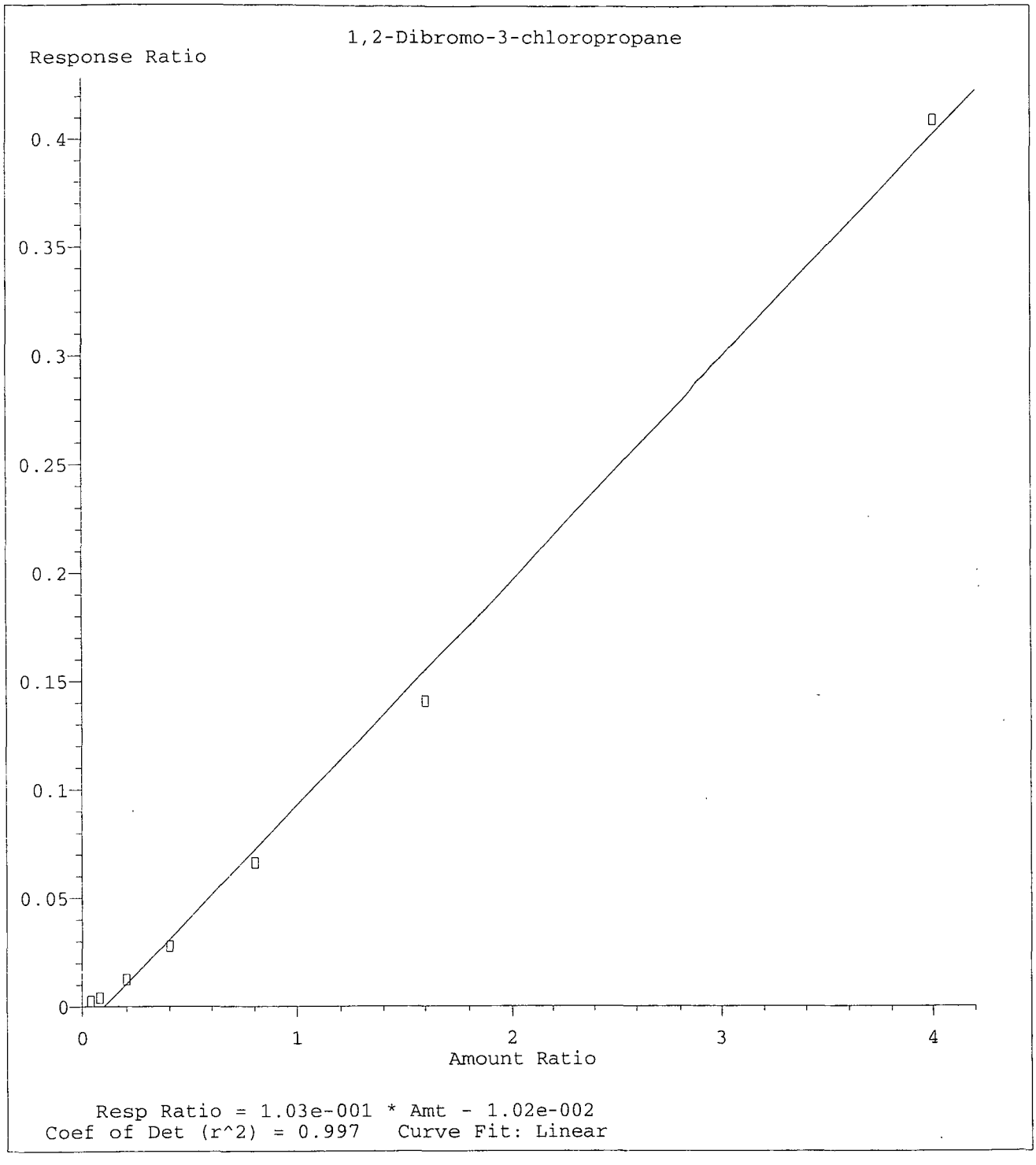
Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



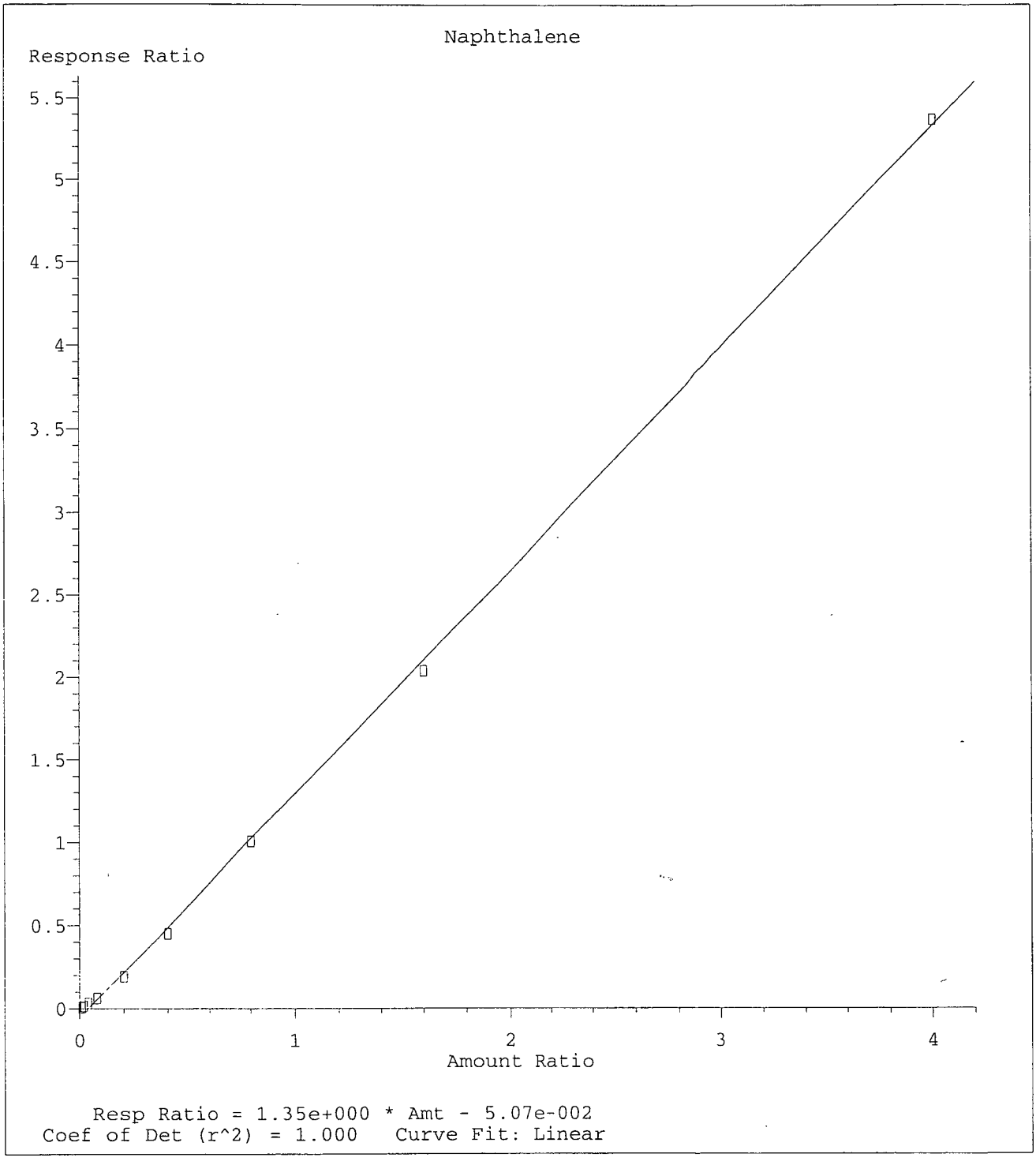
Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020



Method Name: M:\ZEUS\DATA\201019\Z1019W.M
Calibration Table Last Updated: Tue Oct 20 06:57:37 2020

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/19/20
Instrument: ZEUS
Initial Cal. Date: 10/19/20
Data File: 1019Z24.D

		Compound	MEAN	CCRF	%D		%Drift	
1	TM	Dichlorodifluoromethane	0.0499	0.0462	7.5	TM		
2	TM	Freon 114	0.0537	0.0625	16	TM		
3	TM**	Chloromethane	0.1861	0.1529	18	TM**		
4	TM*	Vinyl chloride	0.1415	0.1228	13	TM*		
5		Butane	0.0000	0.0001	0.00			
6	TML	Bromomethane	0.0502	0.0457	9.0	TML	11	
7	TM	Chloroethane	0.0483	0.0448	7.3	TM		
8	TML	Dichlorofluoromethane	0.2127	0.1810	15	TML	0.40	
9	TM	Trichlorofluoromethane	0.2198	0.1959	11	TM		
10	TM	Pentane	0.0000	0.0012	0.00	TM		
11	TM	Acrolein	0.0133	0.0135	1.8	TM		
12	TM	Acetone	0.0477	0.0489	2.6	TM		
13	TM	Freon-113	0.1311	0.1304	0.52	TM		
14	TM*	1,1-DCE	0.1962	0.1847	5.9	TM*		
15	TM	2-Propanol	0.0000	0.0002	0.00	TM		
16	TM	Acetonitrile	0.0051	0.0050	1.9	TM		
17	TML	t-Butanol	0.0051	0.0065	26	TML	23	*NT
18	TM	Methyl Acetate	0.1147	0.1094	4.6	TM		
19	TML	Iodomethane	0.1016	0.0726	28	TML	34	*NT
20	TM	Acrylonitrile	0.0457	0.0487	6.6	TM		
21	TM	Methylene chloride	0.1532	0.1397	8.8	TM		
22	TM	Carbon disulfide	0.1981	0.1877	5.3	TM		
23	TM	Methyl t-butyl ether (MtBE)	0.2959	0.2973	0.49	TM		
24	TM	Trans-1,2-DCE	0.1846	0.1745	5.5	TM		
25	TM	Hexane	0.0000	0.0004	0.00	TM		
26	TM	Diisopropyl Ether	0.3844	0.4060	5.6	TM		
27	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0001	0.00	TM**		
28	TM**	1,1-DCA	0.2223	0.2186	1.7	TM**		
29	TM	Vinyl Acetate	0.1807	0.1872	3.6	TM		
30	TM	Ethyl tert Butyl Ether	0.3166	0.3260	3.0	TM		
31	TM	MEK (2-Butanone)	0.0637	0.0702	10	TM		
32	TM	Cis-1,2-DCE	0.2069	0.1950	5.7	TM		
33	TM	2,2-Dichloropropane	0.1773	0.1591	10	TM		
34	TM	2-Methylpentane	0.0000	0.0004	0.00	TM		
35	TM	3-Methylpentane	0.0000	0.0714	0.00	TM		
36	TM*	Chloroform	0.2280	0.2106	7.6	TM*		
37	TM	Bromochloromethane	0.1137	0.1087	4.4	TM		
38	TM	1,1,1-TCA	0.2000	0.1847	7.6	TM		
39	TM	Cyclohexane	0.2185	0.2258	3.4	TM		
40	TM	1,1-Dichloropropene	0.1696	0.1670	1.5	TM		
		Average			6.5			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/19/20
Matrix: Water Instrument: ZEUS
Cal. Date: 10/19/20
Data File: 1019Z24.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	2,2,4-Trimethylpentane	0.4378	0.4696	7.3	TM	
42	TM	Carbon Tetrachloride	0.1726	0.1604	7.1	TM	
43	TM	Tert Amyl Methyl Ether	0.2696	0.2857	6.0	TM	
44	TM	Methylcyclopentane	0.0201	0.0190	5.4	TM	
45	TM	1,2-DCA	0.1788	0.1594	11	TM	
46	TM	Benzene	0.5191	0.5006	3.6	TM	
47	TM	TCE	0.1622	0.1558	3.9	TM	
48	TM	2-Pentanone	0.0970	0.1074	11	TM	
49	TM*	1,2-Dichloropropane	0.1204	0.1179	2.0	TM*	
50	TM	Bromodichloromethane	0.1441	0.1342	6.9	TM	
51	TM	Methyl Cyclohexane	0.2194	0.2291	4.4	TM	
52	TM	Dibromomethane	0.0925	0.0865	6.5	TM	
53	TM	MIBK (methyl isobutyl ketone)	0.1141	0.1262	11	TM	
54	TM	1-Bromo-2-chloroethane	0.0211	0.0212	0.73	TM	
55	TM	2-Chloroethyl vinyl ether	0.0544	0.0598	10.0	TM	
56	TM	Cis-1,3-Dichloropropene	0.1773	0.1736	2.1	TM	
57	TM*	Toluene	0.5504	0.5309	3.6	TM*	
58	TM	Trans-1,3-Dichloropropene	0.1446	0.1425	1.4	TM	
59	TM	1,1,2-TCA	0.1094	0.1047	4.3	TM	
60	TM	2-Hexanone	0.0771	0.0880	14	TM	
61	TM	1,2-EDB	0.1561	0.1549	0.74	TM	
62	TM	Tetrachloroethene	0.2215	0.2124	4.1	TM	
63	TM	1-Chlorohexane	0.2565	0.2446	4.7	TM	
64	TM	1,1,1,2-Tetrachloroethane	0.1577	0.1593	0.99	TM	
65	TM	m&p-Xylene	0.6096	0.6208	1.8	TM	
66	TM	o-Xylene	0.6082	0.6148	1.1	TM	
67	TM	Styrene	0.4645	0.4824	3.8	TM	
68	TM	1,3-Dichloropropane	0.2457	0.2417	1.6	TM	
69	TM	Dibromochloromethane	0.1515	0.1450	4.3	TM	
70	TM**	Chlorobenzene	0.5179	0.4921	5.0	TM**	
71	TM*	Ethylbenzene	0.8154	0.7936	2.7	TM*	
72	TM**L	Bromoform	0.0966	0.0925	4.1	TM**L	13
73	TM	Isopropylbenzene	1.389	1.442	3.8	TM	
74	TM**	1,1,2,2-Tetrachloroethane	0.3037	0.3061	0.80	TM**	
75	TM	1,2,3-Trichloropropane	0.1122	0.1125	0.26	TM	
76	TML	t-1,4-Dichloro-2-Butene	0.0855	0.0805	5.8	TML	8.6
77	TM	Bromobenzene	0.6362	0.6085	4.4	TM	
78	TM	n-Propylbenzene	1.688	1.706	1.1	TM	
79	TM	4-Ethyltoluene	1.434	1.533	6.9	TM	
80	TM	2-Chlorotoluene	1.160	1.158	0.18	TM	
		Average			4.5		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/19/20
Instrument: ZEUS
Cal. Date: 10/19/20
Data File: 1019Z24.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,3,5-Trimethylbenzene	1.229	1.261	2.5	TM	
82	TM	4-Chlorotoluene	1.183	1.179	0.39	TM	
83	TM	Tert-Butylbenzene	1.060	1.070	0.88	TM	
84	TML	1,2,4-Trimethylbenzene	1.183	1.267	7.1	TML	6.6
85	TM	Sec-Butylbenzene	1.643	1.642	0.05	TM	
86	TM	p-Isopropyltoluene	1.362	1.398	2.6	TM	
87	TML	Benzyl Chloride	0.5029	0.4194	17	TML	23
88	TM	1,3-DCB	0.7856	0.7403	5.8	TM	
89	TM	1,4-DCB	0.8211	0.7504	8.6	TM	
90	TM	n-Butylbenzene	1.240	1.246	0.46	TM	
91	TM	1,2-DCB	0.7085	0.6897	2.7	TM	
92	TML	Hexachloroethane	0.1797	0.1579	12	TML	10
93	TML	1,2-Dibromo-3-chloropropane	0.0735	0.0685	6.7	TML	8.7
94	TM	1,2,4-Trichlorobenzene	0.4732	0.4628	2.2	TM	
95	TM	Hexachlorobutadiene	0.2540	0.2393	5.8	TM	
96	TML	Naphthalene	0.9903	1.085	9.6	TML	9.9
97	TM	1,2,3-Trichlorobenzene	0.4338	0.4322	0.37	TM	
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			5.0		

TM 10/19/2020

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z24.D Vial: 12
Acq On : 19 Oct 20 16:06 Operator: LP,DG,CH
Sample : (SS) 10ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2102416	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.74	117	1489172	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	837513	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	571098	25.93	ppb	0.00
Spiked Amount 25.000			Recovery =	103.708%		
48) 1,2-DCA-D4(S)	4.78	65	606362	25.68	ppb	0.00
Spiked Amount 25.000			Recovery =	102.700%		
69) Toluene-D8(S)	6.44	98	2047421	27.60	ppb	0.00
Spiked Amount 25.000			Recovery =	110.400%		
77) 4-Bromofluorobenzene(S)	8.83	95	743603	27.21	ppb	0.00
Spiked Amount 25.000			Recovery =	108.856%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.18	87	38833	9.25	ppb	93
4) Freon 114	1.29	85	52566	11.64	ppb	87
5) Chloromethane	1.37	50	128623	8.22	ppb	96
6) Vinyl chloride	1.43	62	103250	8.68	ppb	97
9) Bromomethane	1.70	94	38412	11.10	ppb	100
10) Chloroethane	1.78	64	37659	9.27	ppb	97
11) Dichlorofluoromethane	1.99	67	152241	9.96	ppb	96
12) Trichlorofluoromethane	2.03	101	164725	8.91	ppb	98
16) Acrolein	2.44	55	142297	127.23	ppb	93
17) Acetone	2.60	43	205614	51.31	ppb	99
18) Freon-113	2.54	101	109683	9.95	ppb	96
19) 1,1-DCE	2.52	61	155302	9.41	ppb	97
21) Acetonitrile	2.83	40	52153	122.61	ppb	95
22) t-Butanol	3.14	59	67864	153.24	ppb	96
23) Methyl Acetate	2.90	43	92041	9.54	ppb	95
24) Iodomethane	2.64	142	61086	6.58	ppb	98
25) Acrylonitrile	3.19	52	40986	10.66	ppb	98
26) Methylene chloride	2.97	84	117502	9.12	ppb	94
27) Carbon disulfide	2.70	76	157824	9.47	ppb	100
28) Methyl t-butyl ether (MtBE	3.25	73	250030	10.05	ppb	97
29) Trans-1,2-DCE	3.22	61	146730	9.45	ppb	99
31) Diisopropyl Ether	3.69	45	341440	10.56	ppb	98
33) 1,1-DCA	3.59	63	183794	9.83	ppb	99
34) Vinyl Acetate	3.65	43	157466	10.36	ppb	99
35) Ethyl tert Butyl Ether	4.01	59	274138	10.30	ppb	100
36) MEK (2-Butanone)	4.12	43	295061	55.06	ppb	100
37) Cis-1,2-DCE	4.09	61	163989	9.43	ppb	98
38) 2,2-Dichloropropane	4.09	77	133832	8.98	ppb	98
41) Chloroform	4.37	83	177066	9.24	ppb	99
42) Bromochloromethane	4.29	49	91404	9.56	ppb	96
44) 1,1,1-TCA	4.52	97	155350	9.24	ppb	99
45) Cyclohexane	4.58	56	189878	10.34	ppb	100
46) 1,1-Dichloropropene	4.67	75	140457	9.85	ppb	95
47) 2,2,4-Trimethylpentane	4.93	57	394914	10.73	ppb	99
49) Carbon Tetrachloride	4.67	117	134879	9.29	ppb	98
50) Tert Amyl Methyl Ether	4.97	73	240234	10.60	ppb	96
51) Methylcyclopentane	4.01	56	16005	9.46	ppb	100
52) 1,2-DCA	4.85	62	134023	8.91	ppb	97
53) Benzene	4.84	78	421008	9.64	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z24.D Vial: 12
Acq On : 19 Oct 20 16:06 Operator: LP,DG,CH
Sample : (SS) 10ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54)	TCE	5.39	130	131058	9.61	ppb	96
55)	2-Pentanone	5.55	43	1128758	138.39	ppb	99
56)	1,2-Dichloropropane	5.58	63	99154	9.80	ppb	98
57)	Bromodichloromethane	5.81	83	112833	9.31	ppb	97
58)	Methyl Cyclohexane	5.57	83	192669	10.44	ppb	100
59)	Dibromomethane	5.67	174	72749	9.35	ppb	94
60)	MIBK (methyl isobutyl ket	6.35	43	530473	55.28	ppb	94
61)	1-Bromo-2-chloroethane	6.08	144	17857	10.07	ppb	89
62)	2-Chloroethyl vinyl ether	6.08	43	251467	54.98	ppb	97
63)	Cis-1,3-Dichloropropene	6.21	75	145977	9.79	ppb	95
64)	Toluene	6.51	91	446432	9.64	ppb	99
65)	Trans-1,3-Dichloropropene	6.69	75	119818	9.86	ppb	99
66)	1,1,2-TCA	6.85	97	88025	9.57	ppb	95
67)	2-Hexanone	7.09	43	370140	57.08	ppb	98
70)	1,2-EDB	7.30	107	92294	9.93	ppb	100
71)	Tetrachloroethene	6.99	166	126540	9.59	ppb	97
72)	1-Chlorohexane	7.75	91	145693	9.53	ppb	97
73)	1,1,1,2-Tetrachloroethane	7.84	131	94879	10.10	ppb	98
74)	m&p-Xylene	7.98	91	739573	20.37	ppb	99
75)	o-Xylene	8.35	91	366219	10.11	ppb	97
76)	Styrene	8.36	104	287342	10.38	ppb	99
78)	1,3-Dichloropropane	7.00	76	143964	9.84	ppb	97
79)	Dibromochloromethane	7.20	129	86345	9.57	ppb	96
80)	Chlorobenzene	7.76	112	293147	9.50	ppb	99
81)	Ethylbenzene	7.87	91	472702	9.73	ppb	100
82)	Bromoform	8.51	173	55126	8.70	ppb	97
84)	Isopropylbenzene	8.70	105	482991	10.38	ppb	99
85)	1,1,2,2-Tetrachloroethane	8.97	83	102551	10.08	ppb	99
86)	1,2,3-Trichloropropane	9.01	110	37686	10.03	ppb	97
87)	t-1,4-Dichloro-2-Butene	9.02	53	26972	9.14	ppb	97
88)	Bromobenzene	8.97	77	203859	9.56	ppb	97
89)	n-Propylbenzene	9.09	91	571457	10.11	ppb	99
90)	4-Ethyltoluene	9.21	105	513573	10.69	ppb	99
91)	2-Chlorotoluene	9.16	91	387901	9.98	ppb	99
92)	1,3,5-Trimethylbenzene	9.26	105	422307	10.25	ppb	99
93)	4-Chlorotoluene	9.27	91	394870	9.96	ppb	99
94)	Tert-Butylbenzene	9.58	119	358363	10.09	ppb	97
95)	1,2,4-Trimethylbenzene	9.63	105	424424	9.34	ppb	99
96)	Sec-Butylbenzene	9.79	105	550198	9.99	ppb	98
97)	p-Isopropyltoluene	9.94	119	468405	10.26	ppb	99
98)	Benzyl Chloride	10.10	91	140517	7.74	ppb	100
99)	1,3-DCB	9.88	146	248010	9.42	ppb	98
100)	1,4-DCB	9.97	146	251376	9.14	ppb	99
101)	n-Butylbenzene	10.33	91	417327	10.05	ppb	98
102)	1,2-DCB	10.33	146	231042	9.73	ppb	99
103)	Hexachloroethane	10.59	201	52884	8.95	ppb	92
104)	1,2-Dibromo-3-chloropropan	11.08	157	22955	9.13	ppb	95
105)	1,2,4-Trichlorobenzene	11.91	180	155030	9.78	ppb	95
106)	Hexachlorobutadiene	12.11	225	80177	9.42	ppb	91
107)	Naphthalene	12.15	128	363633	9.01	ppb	99
108)	1,2,3-Trichlorobenzene	12.39	180	144778	9.96	ppb	98

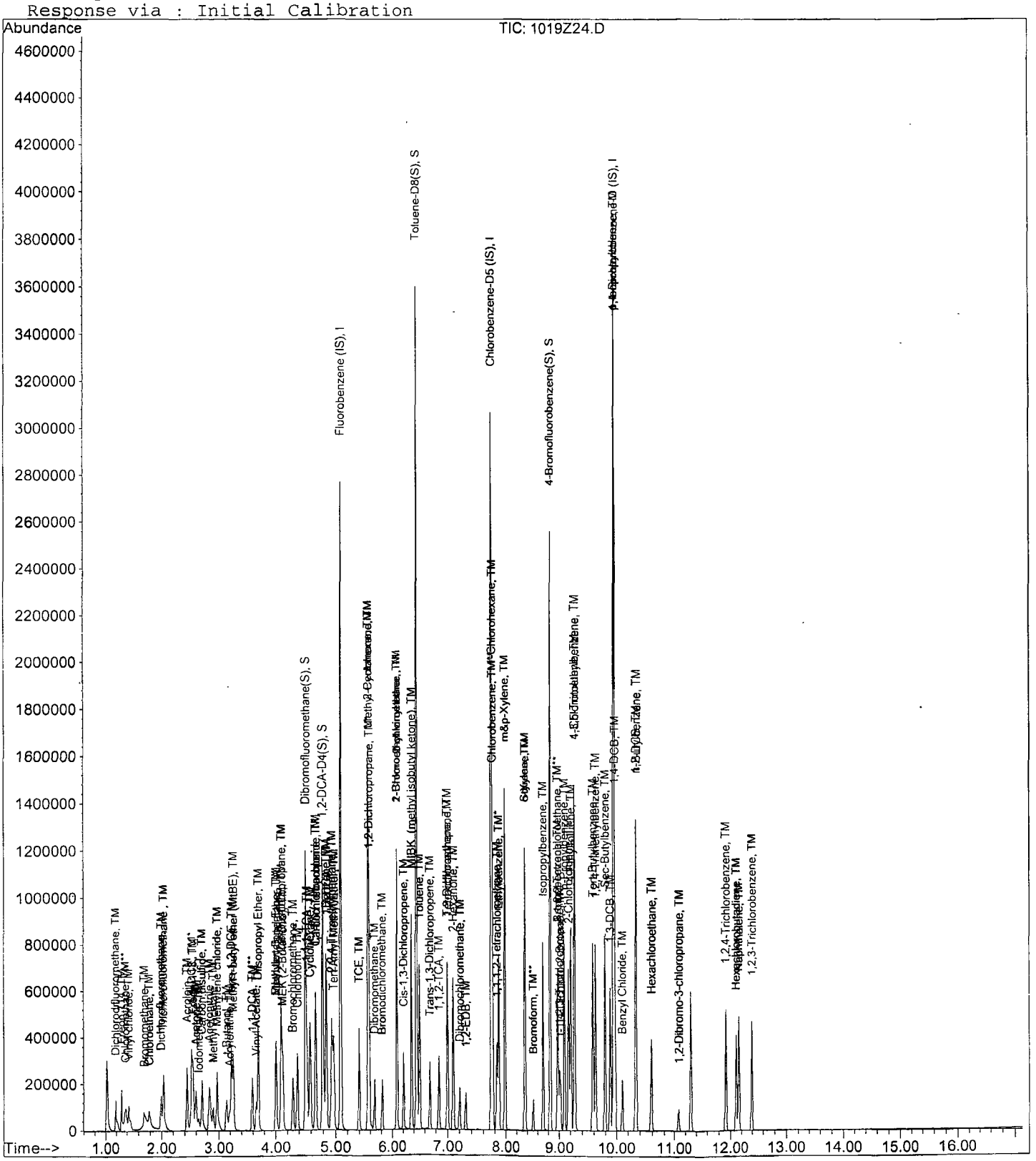
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z24.D Vial: 12
Acq On : 19 Oct 20 16:06 Operator: LP,DG,CH
Sample : (SS) 10ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/20/20
Instrument: ZEUS
Initial Cal. Date: 10/19/20
Data File: 1019Z55.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.0499	0.0532	6.6	TM		
3	TM	Freon 114	0.0537	0.0516	4.0	TM		
4	TM**	Chloromethane	0.1861	0.1666	10	TM**		
5	TM*	Vinyl chloride	0.1415	0.1243	12	TM*		
6		Butane	0.0000	0.0003	0.00			
7	TML	Bromomethane	0.0502	0.0649	29	TML	66	*NT Diluted20
8	TM	Chloroethane	0.0483	0.0681	41	TM		
9	TML	Dichlorofluoromethane	0.2127	0.2301	8.2	TML	30	
10	TM	Trichlorofluoromethane	0.2198	0.2591	18	TM		
11	TM	Pentane	0.0000	0.0022	0.00	TM		
12	TM	Acrolein	0.0133	0.0108	19	TM		
13	TM	Acetone	0.0477	0.0497	4.3	TM		
14	TM	Freon-113	0.1311	0.1366	4.2	TM		
15	TM*	1,1-DCE	0.1962	0.2089	6.5	TM*		
16	TM	2-Propanol	0.0000	0.0000	0.00	TM		
17	TM	Acetonitrile	0.0051	0.0052	3.0	TM		
18	TML	t-Butanol	0.0051	0.0054	5.1	TML	2.6	
19	TM	Methyl Acetate	0.1147	0.1112	3.0	TM		
20	TML	Iodomethane	0.1016	0.1147	13	TML	7.4	
21	TM	Acrylonitrile	0.0457	0.0482	5.4	TM		
22	TM	Methylene chloride	0.1532	0.1501	2.1	TM		
23	TM	Carbon disulfide	0.1981	0.2046	3.3	TM		
24	TM	Methyl t-butyl ether (MtBE)	0.2959	0.3101	4.8	TM		
25	TM	Trans-1,2-DCE	0.1846	0.1901	3.0	TM		
26	TM	Hexane	0.0000	0.0002	0.00	TM		
27	TM	Diisopropyl Ether	0.3844	0.3949	2.7	TM		
28	TM**	1,1-DCA	0.2223	0.2270	2.1	TM**		
29	TM	Vinyl Acetate	0.1807	0.0593	67	TM		*NT
30	TM	Ethyl tert Butyl Ether	0.3166	0.3275	3.5	TM		
31	TM	MEK (2-Butanone)	0.0637	0.0624	2.1	TM		
32	TM	Cis-1,2-DCE	0.2069	0.2045	1.2	TM		
33	TM	2,2-Dichloropropane	0.1773	0.1398	21	TM		
34	TM	2-Methylpentane	0.0000	0.0176	0.00	TM		
35	TM	3-Methylpentane	0.0000	0.0712	0.00	TM		
36	TM*	Chloroform	0.2280	0.2438	7.0	TM*		
37	TM	Bromochloromethane	0.1137	0.1172	3.0	TM		
38	S	Dibromofluoromethane(S)	0.2619	0.2951	13	S		
39	TM	1,1,1-TCA	0.2000	0.2214	11	TM		
40	TM	Cyclohexane	0.2185	0.2154	1.4	TM		
		Average			8.7			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/20/20
Matrix: Water Instrument: ZEUS
Cal. Date: 10/19/20
Data File: 1019Z55.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	1,1-Dichloropropene	0.1696	0.1802	6.2	TM	
42	TM	2,2,4-Trimethylpentane	0.4378	0.3904	11	TM	
43	S	1,2-DCA-D4(S)	0.2808	0.3338	19	S	
44	TM	Carbon Tetrachloride	0.1726	0.1928	12	TM	
45	TM	Tert Amyl Methyl Ether	0.2696	0.2818	4.5	TM	
46	TM	Methylcyclopentane	0.0201	0.0215	6.9	TM	
47	TM	1,2-DCA	0.1788	0.1926	7.7	TM	
48	TM	Benzene	0.5191	0.5306	2.2	TM	
49	TM	TCE	0.1622	0.1813	12	TM	
50	TM	2-Pentanone	0.0970	0.0948	2.2	TM	
51	TM*	1,2-Dichloropropane	0.1204	0.1217	1.1	TM*	
52	TM	Bromodichloromethane	0.1441	0.1501	4.2	TM	
53	TM	Methyl Cyclohexane	0.2194	0.2231	1.7	TM	
54	TM	Dibromomethane	0.0925	0.0935	1.1	TM	
55	TM	MIBK (methyl isobutyl ketone)	0.1141	0.1143	0.14	TM	
56	TM	1-Bromo-2-chloroethane	0.0211	0.0219	4.0	TM	
57	TM	2-Chloroethyl vinyl ether	0.0544	0.0562	3.3	TM	
58	TM	Cis-1,3-Dichloropropene	0.1773	0.1759	0.80	TM	
59	TM*	Toluene	0.5504	0.5649	2.6	TM*	
60	TM	Trans-1,3-Dichloropropene	0.1446	0.1455	0.62	TM	
61	TM	1,1,2-TCA	0.1094	0.1097	0.29	TM	
62	TM	2-Hexanone	0.0771	0.0778	0.94	TM	
63	I	Chlorobenzene-D5 (IS)	ISTD			I	
64	S	Toluene-D8(S)	1.245	1.389	12	S	
65	TM	1,2-EDB	0.1561	0.1627	4.2	TM	
66	TM	Tetrachloroethene	0.2215	0.2224	0.38	TM	
67	TM	1-Chlorohexane	0.2565	0.2380	7.2	TM	
68	TM	1,1,1,2-Tetrachloroethane	0.1577	0.1732	9.8	TM	
69	TM	m&p-Xylene	0.6096	0.6688	9.7	TM	
70	TM	o-Xylene	0.6082	0.6663	9.5	TM	
71	TM	Styrene	0.4645	0.5115	10	TM	
72	S	4-Bromofluorobenzene(S)	0.4587	0.5218	14	S	
73	TM	1,3-Dichloropropane	0.2457	0.2553	3.9	TM	
74	TM	Dibromochloromethane	0.1515	0.1612	6.4	TM	
75	TM**	Chlorobenzene	0.5179	0.5254	1.5	TM**	
76	TM*	Ethylbenzene	0.8154	0.8585	5.3	TM*	
77	TM**L	Bromoform	0.0966	0.0957	0.88	TM**L	11
78	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
79	TM	Isopropylbenzene	1.389	1.509	8.6	TM	
80	TM**	1,1,2,2-Tetrachloroethane	0.3037	0.2744	9.6	TM**	
		Average			5.7		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/20/20
Instrument: ZEUS
Cal. Date: 10/19/20
Data File: 1019Z55.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,2,3-Trichloropropane	0.1122	0.1163	3.7	TM	
82	TML	t-1,4-Dichloro-2-Butene	0.0855	0.0784	8.2	TML	10
83	TM	Bromobenzene	0.6362	0.6346	0.25	TM	
84	TM	n-Propylbenzene	1.688	1.797	6.5	TM	
85	TM	4-Ethyltoluene	1.434	1.578	10	TM	
86	TM	2-Chlorotoluene	1.160	1.232	6.2	TM	
87	TM	1,3,5-Trimethylbenzene	1.229	1.343	9.2	TM	
88	TM	4-Chlorotoluene	1.183	1.275	7.8	TM	
89	TM	Tert-Butylbenzene	1.060	1.146	8.1	TM	
90	TML	1,2,4-Trimethylbenzene	1.183	1.342	13	TML	1.3
91	TM	Sec-Butylbenzene	1.643	1.740	5.9	TM	
92	TM	p-Isopropyltoluene	1.362	1.481	8.7	TM	
93	TML	Benzyl Chloride	0.5029	0.2970	41	TML	39
94	TM	1,3-DCB	0.7856	0.7810	0.59	TM	
95	TM	1,4-DCB	0.8211	0.7944	3.3	TM	
96	TM	n-Butylbenzene	1.240	1.305	5.3	TM	
97	TM	1,2-DCB	0.7085	0.7325	3.4	TM	
98	TML	Hexachloroethane	0.1797	0.1621	9.8	TML	8.8
99	TML	1,2-Dibromo-3-chloropropane	0.0735	0.0680	7.4	TML	9.2
100	TM	1,2,4-Trichlorobenzene	0.4732	0.4705	0.58	TM	
101	TM	Hexachlorobutadiene	0.2540	0.2455	3.4	TM	
102	TML	Naphthalene	0.9903	1.092	10	TML	9.4
103	TM	1,2,3-Trichlorobenzene	0.4338	0.4378	0.92	TM	
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			7.5		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z55.D Vial: 43
Acq On : 20 Oct 20 04:05 Operator: LP,DG,CH
Sample : Ending CCV 10ug/L 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1316085	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.73	117	938910	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	539288	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.50	111	388360	28.16	ppb		0.00
Spiked Amount 25.000			Recovery = 112.660%				
48) 1,2-DCA-D4(S)	4.78	65	439372	29.72	ppb		0.00
Spiked Amount 25.000			Recovery = 118.880%				
69) Toluene-D8(S)	6.44	98	1304431	27.89	ppb		0.00
Spiked Amount 25.000			Recovery = 111.560%				
77) 4-Bromofluorobenzene(S)	8.83	95	489894	28.44	ppb		0.00
Spiked Amount 25.000			Recovery = 113.744%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.18	87	28013	10.66	ppb		96
4) Freon 114	1.29	85	27152	9.60	ppb		92
5) Chloromethane	1.37	50	87719	8.95	ppb		96
6) Vinyl chloride	1.43	62	65452	8.78	ppb		99
9) Bromomethane	1.70	94	34172	16.63	ppb		90
10) Chloroethane	1.78	64	35824	14.09	ppb		92
11) Dichlorofluoromethane	1.99	67	121133	12.96	ppb		99
12) Trichlorofluoromethane	2.03	101	136388	11.79	ppb		100
16) Acrolein	2.43	55	71172	101.66	ppb		98
17) Acetone	2.59	43	130829	52.15	ppb		96
18) Freon-113	2.54	101	71917	10.42	ppb		97
19) 1,1-DCE	2.52	61	109971	10.65	ppb		97
21) Acetonitrile	2.83	40	34288	128.78	ppb		95
22) t-Butanol	3.13	59	35536	128.30	ppb		95
23) Methyl Acetate	2.90	43	58545	9.70	ppb		98
24) Iodomethane	2.64	142	60366	9.26	ppb		99
25) Acrylonitrile	3.19	52	25370	10.54	ppb		97
26) Methylene chloride	2.97	84	78999	9.79	ppb		96
27) Carbon disulfide	2.70	76	107720	10.33	ppb		99
28) Methyl t-butyl ether (MtBE	3.25	73	163235	10.48	ppb		100
29) Trans-1,2-DCE	3.22	61	100052	10.30	ppb		96
31) Diisopropyl Ether	3.69	45	207883	10.27	ppb		100
33) 1,1-DCA	3.59	63	119495	10.21	ppb		98
34) Vinyl Acetate	3.65	43	31231	3.28	ppb		96
35) Ethyl tert Butyl Ether	4.01	59	172429	10.35	ppb		100
36) MEK (2-Butanone)	4.12	43	164180	48.94	ppb		100
37) Cis-1,2-DCE	4.09	61	107650	9.88	ppb		98
38) 2,2-Dichloropropane	4.09	77	73602	7.89	ppb		99
41) Chloroform	4.37	83	128356	10.70	ppb		100
42) Bromochloromethane	4.29	49	61682	10.30	ppb		98
44) 1,1,1-TCA	4.52	97	116545	11.07	ppb		98
45) Cyclohexane	4.58	56	113418	9.86	ppb		94
46) 1,1-Dichloropropene	4.67	75	94862	10.62	ppb		98
47) 2,2,4-Trimethylpentane	4.93	57	205524	8.92	ppb		99
49) Carbon Tetrachloride	4.67	117	101497	11.17	ppb		98
50) Tert Amyl Methyl Ether	4.97	73	148346	10.45	ppb		99
51) Methylcyclopentane	4.00	56	11326	10.69	ppb		100
52) 1,2-DCA	4.84	62	101380	10.77	ppb	#	94
53) Benzene	4.84	78	279328	10.22	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z55.D Vial: 43
Acq On : 20 Oct 20 04:05 Operator: LP,DG,CH
Sample : Ending CCV 10ug/L 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	95454	11.18	ppb		95
55)	2-Pentanone	5.55	43	624112	122.24	ppb		100
56)	1,2-Dichloropropane	5.58	63	64043	10.11	ppb	#	93
57)	Bromodichloromethane	5.81	83	79032	10.42	ppb		97
58)	Methyl Cyclohexane	5.57	83	117442	10.17	ppb		95
59)	Dibromomethane	5.67	174	49218	10.11	ppb		91
60)	MIBK (methyl isobutyl ket	6.35	43	300773	50.07	ppb		99
61)	1-Bromo-2-chloroethane	6.08	144	11544	10.40	ppb		96
62)	2-Chloroethyl vinyl ether	6.08	43	147960	51.67	ppb		98
63)	Cis-1,3-Dichloropropene	6.20	75	92618	9.92	ppb		95
64)	Toluene	6.50	91	297366	10.26	ppb		100
65)	Trans-1,3-Dichloropropene	6.69	75	76572	10.06	ppb		97
66)	1,1,2-TCA	6.85	97	57741	10.03	ppb		97
67)	2-Hexanone	7.09	43	204846	50.47	ppb		97
70)	1,2-EDB	7.30	107	61104	10.42	ppb		98
71)	Tetrachloroethene	6.99	166	83507	10.04	ppb		93
72)	1-Chlorohexane	7.75	91	89382	9.28	ppb		97
73)	1,1,1,2-Tetrachloroethane	7.84	131	65031	10.98	ppb		92
74)	m&p-Xylene	7.98	91	502336	21.94	ppb		98
75)	o-Xylene	8.35	91	250246	10.95	ppb		97
76)	Styrene	8.36	104	192112	11.01	ppb		98
78)	1,3-Dichloropropane	7.00	76	95869	10.39	ppb		97
79)	Dibromochloromethane	7.20	129	60541	10.64	ppb		95
80)	Chlorobenzene	7.76	112	197335	10.15	ppb		99
81)	Ethylbenzene	7.87	91	322440	10.53	ppb		99
82)	Bromoform	8.51	173	35943	8.93	ppb		95
84)	Isopropylbenzene	8.70	105	325414	10.86	ppb		98
85)	1,1,2,2-Tetrachloroethane	8.97	83	59188	9.04	ppb	#	96
86)	1,2,3-Trichloropropane	9.01	110	25090	10.37	ppb		97
87)	t-1,4-Dichloro-2-Butene	9.02	53	16922	8.95	ppb		89
88)	Bromobenzene	8.97	77	136889	9.97	ppb		96
89)	n-Propylbenzene	9.09	91	387638	10.65	ppb		100
90)	4-Ethyltoluene	9.20	105	340394	11.00	ppb		99
91)	2-Chlorotoluene	9.16	91	265674	10.62	ppb		96
92)	1,3,5-Trimethylbenzene	9.26	105	289688	10.92	ppb		99
93)	4-Chlorotoluene	9.27	91	275090	10.78	ppb		97
94)	Tert-Butylbenzene	9.58	119	247163	10.81	ppb		98
95)	1,2,4-Trimethylbenzene	9.62	105	289402	9.87	ppb		97
96)	Sec-Butylbenzene	9.79	105	375382	10.59	ppb		98
97)	p-Isopropyltoluene	9.94	119	319446	10.87	ppb		99
98)	Benzyl Chloride	10.10	91	64066	6.07	ppb		96
99)	1,3-DCB	9.88	146	168481	9.94	ppb		98
100)	1,4-DCB	9.97	146	171361	9.67	ppb		99
101)	n-Butylbenzene	10.33	91	281567	10.53	ppb		99
102)	1,2-DCB	10.33	146	158016	10.34	ppb		100
103)	Hexachloroethane	10.59	201	34958	9.12	ppb		97
104)	1,2-Dibromo-3-chloropropan	11.08	157	14669	9.08	ppb		96
105)	1,2,4-Trichlorobenzene	11.91	180	101496	9.94	ppb		100
106)	Hexachlorobutadiene	12.10	225	52953	9.66	ppb		95
107)	Naphthalene	12.15	128	235634	9.06	ppb		98
108)	1,2,3-Trichlorobenzene	12.39	180	94432	10.09	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

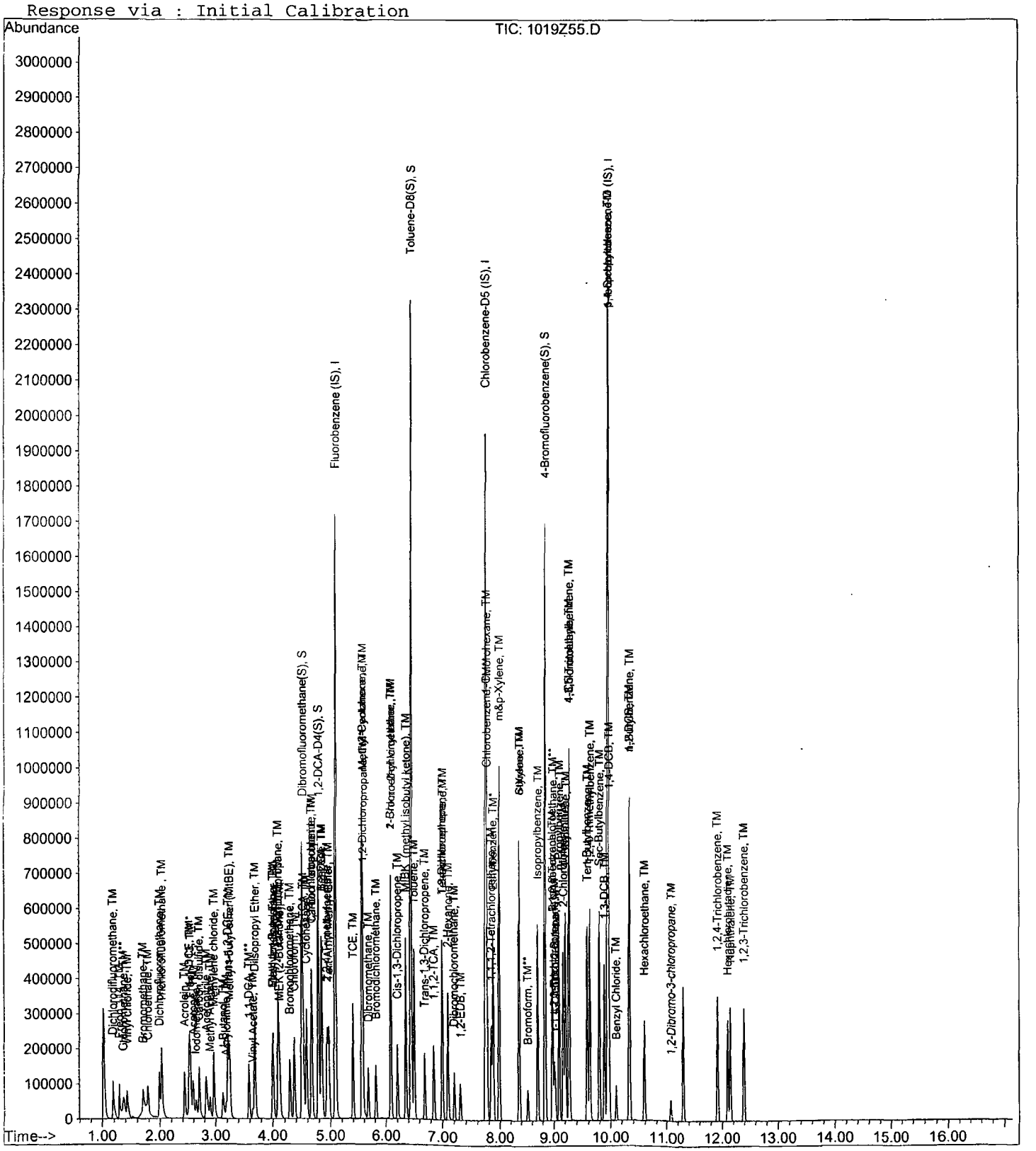
Data File : M:\ZEUS\DATA\201019\1019Z55.D
Acq On : 20 Oct 20 04:05
Sample : Ending CCV 10ug/L 10/19/20
Misc :

Vial: 43
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 21 9:03 2020

Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z38.D Vial: 26
Acq On : 19 Oct 20 21:30 Operator: LP,DG,CH
Sample : BA20267W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 13:14 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1607899	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1167624	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	655254	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	479110	28.44	ppb	0.00
Spiked Amount 25.000			Recovery = 113.760%			
48) 1,2-DCA-D4(S)	4.78	65	526689	29.16	ppb	0.00
Spiked Amount 25.000			Recovery = 116.644%			
69) Toluene-D8(S)	6.45	98	1570725	27.01	ppb	0.00
Spiked Amount 25.000			Recovery = 108.020%			
77) 4-Bromofluorobenzene(S)	8.83	95	586528	27.38	ppb	0.00
Spiked Amount 25.000			Recovery = 109.504%			

Target Compounds Qvalue

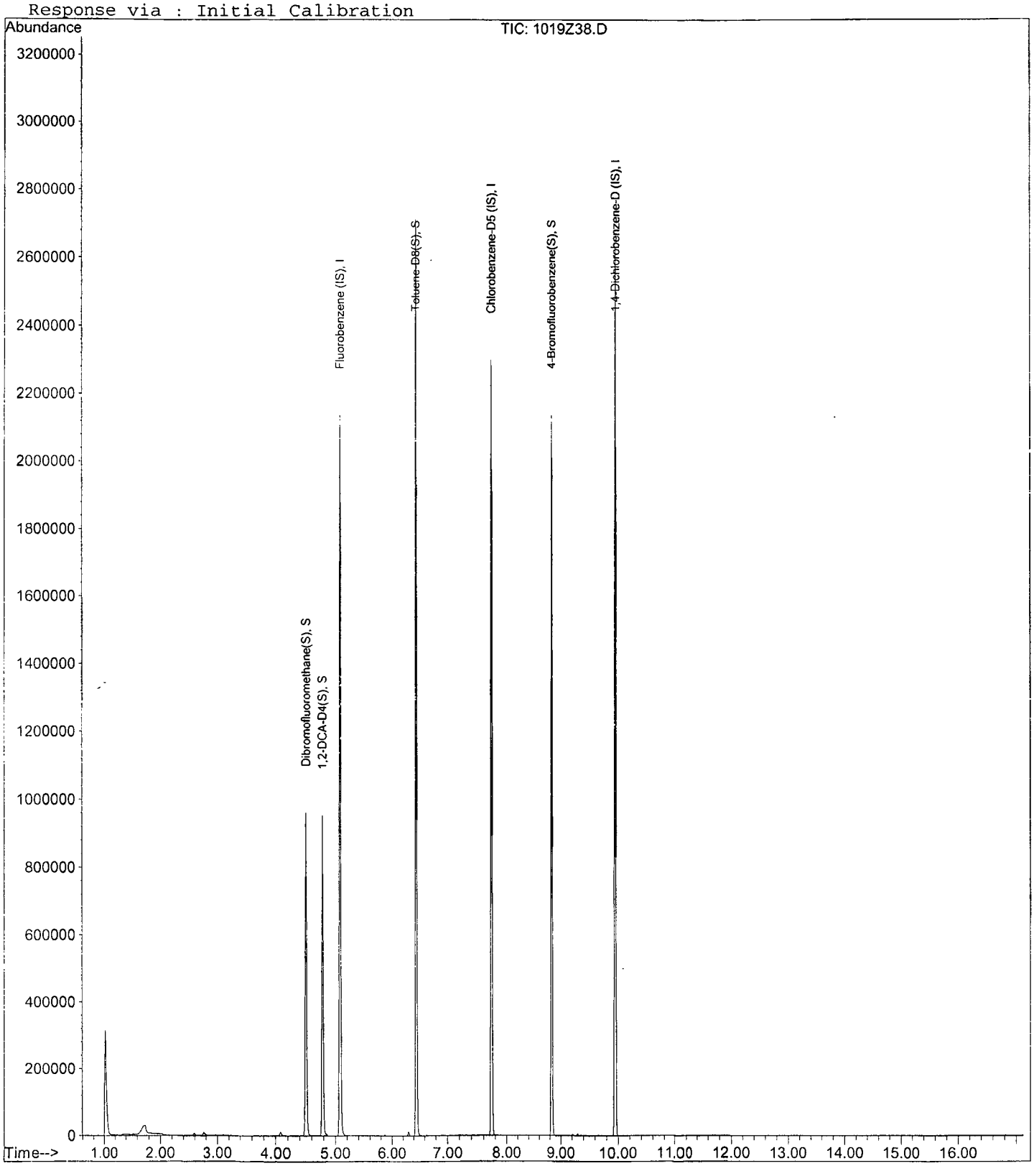
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z38.D Vial: 26
Acq On : 19 Oct 20 21:30 Operator: LP,DG,CH
Sample : BA20267W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 13:14 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 11:51:42 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z39.D
Acq On : 19 Oct 20 21:54
Sample : BA20268W01
Misc :

Vial: 27
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 21 13:15 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1518013	25.00 ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1095583	25.00 ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	629543	25.00 ppb	0.00
System Monitoring Compounds					
43) Dibromofluoromethane(S)	4.50	111	456039	28.67 ppb	0.00
Spiked Amount 25.000			Recovery =	114.692%	
48) 1,2-DCA-D4(S)	4.78	65	513980	30.14 ppb	0.00
Spiked Amount 25.000			Recovery =	120.568%	
69) Toluene-D8(S)	6.44	98	1467305	26.89 ppb	0.00
Spiked Amount 25.000			Recovery =	107.544%	
77) 4-Bromofluorobenzene(S)	8.83	95	551998	27.46 ppb	0.00
Spiked Amount 25.000			Recovery =	109.836%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

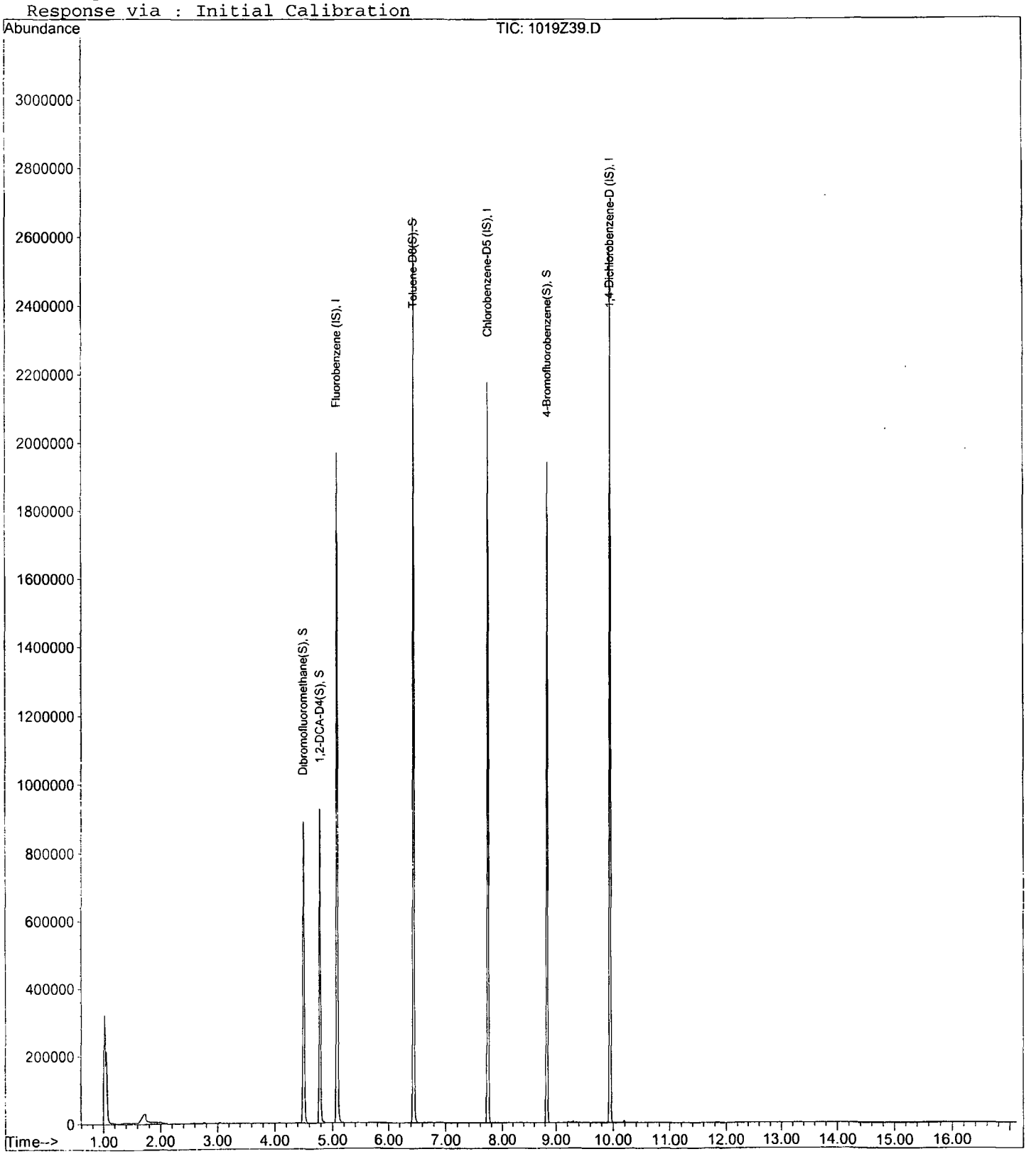
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z39.D
Acq On : 19 Oct 20 21:54
Sample : BA20268W01
Misc :

Vial: 27
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 21 13:15 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 11:51:42 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z30.D Vial: 18
Acq On : 19 Oct 20 18:25 Operator: LP,DG,CH
Sample : 201019A BLK Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:05 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1868771	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1341533	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	759355	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	533483	27.25	ppb	0.00
Spiked Amount 25.000			Recovery =	108.988%		
48) 1,2-DCA-D4(S)	4.78	65	575227	27.40	ppb	0.00
Spiked Amount 25.000			Recovery =	109.608%		
69) Toluene-D8(S)	6.44	98	1799771	26.93	ppb	0.00
Spiked Amount 25.000			Recovery =	107.728%		
77) 4-Bromofluorobenzene(S)	8.83	95	669768	27.21	ppb	0.00
Spiked Amount 25.000			Recovery =	108.836%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

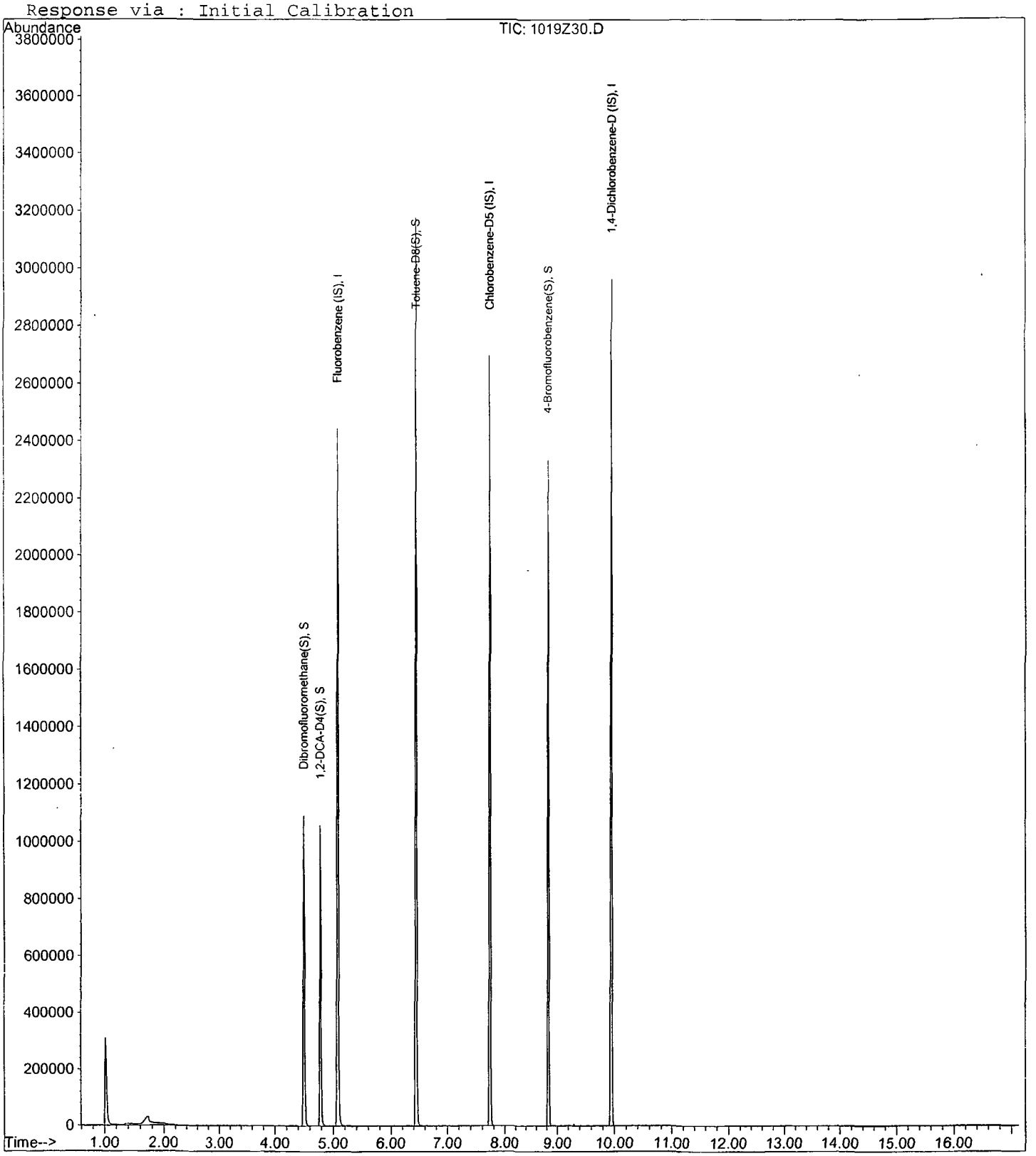
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z30.D
Acq On : 19 Oct 20 18:25
Sample : 201019A BLK
Misc :

Vial: 18
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 21 9:05 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z25.D Vial: 13
Acq On : 19 Oct 20 16:29 Operator: LP,DG,CH
Sample : 201019A LCS 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2044095	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1438768	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	814239	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	570101	26.62	ppb	0.00
Spiked Amount 25.000			Recovery =	106.480%		
48) 1,2-DCA-D4(S)	4.78	65	595412	25.93	ppb	0.00
Spiked Amount 25.000			Recovery =	103.724%		
69) Toluene-D8(S)	6.44	98	2010083	28.05	ppb	0.00
Spiked Amount 25.000			Recovery =	112.184%		
77) 4-Bromofluorobenzene(S)	8.83	95	736602	27.90	ppb	0.00
Spiked Amount 25.000			Recovery =	111.608%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.18	87	42263	10.35	ppb	95
4) Freon 114	1.29	85	46131	10.51	ppb	90
5) Chloromethane	1.37	50	155493	10.22	ppb	99
6) Vinyl chloride	1.43	62	116970	10.11	ppb	98
9) Bromomethane	1.70	94	42050	12.75	ppb	99
10) Chloroethane	1.78	64	38041	9.63	ppb	97
11) Dichlorofluoromethane	1.99	67	167193	11.39	ppb	100
12) Trichlorofluoromethane	2.03	101	183297	10.20	ppb	98
16) Acrolein	2.44	55	137021	126.01	ppb	97
17) Acetone	2.60	43	184941	47.46	ppb	95
18) Freon-113	2.54	101	107160	10.00	ppb	97
19) 1,1-DCE	2.52	61	165598	10.33	ppb	95
21) Acetonitrile	2.83	40	52900	127.92	ppb	97
22) t-Butanol	3.13	59	56552	131.44	ppb	98
23) Methyl Acetate	2.90	43	92062	9.82	ppb	98
24) Iodomethane	2.65	142	78870	8.10	ppb	98
25) Acrylonitrile	3.19	52	39750	10.63	ppb	95
26) Methylene chloride	2.97	84	121307	9.68	ppb	94
27) Carbon disulfide	2.70	76	168064	10.38	ppb	100
28) Methyl t-butyl ether (MtBE	3.25	73	253440	10.48	ppb	99
29) Trans-1,2-DCE	3.22	61	153864	10.20	ppb	98
31) Diisopropyl Ether	3.69	45	342892	10.91	ppb	97
33) 1,1-DCA	3.59	63	182992	10.07	ppb	100
34) Vinyl Acetate	3.65	43	137624	9.31	ppb	97
35) Ethyl tert Butyl Ether	4.01	59	278130	10.74	ppb	100
36) MEK (2-Butanone)	4.12	43	265369	50.93	ppb	99
37) Cis-1,2-DCE	4.09	61	169637	10.03	ppb	98
38) 2,2-Dichloropropane	4.09	77	139278	9.61	ppb	96
41) Chloroform	4.37	83	186148	9.99	ppb	100
42) Bromochloromethane	4.29	49	94535	10.16	ppb	95
44) 1,1,1-TCA	4.52	97	165395	10.12	ppb	99
45) Cyclohexane	4.58	56	187241	10.48	ppb	96
46) 1,1-Dichloropropene	4.67	75	146272	10.55	ppb	98
47) 2,2,4-Trimethylpentane	4.93	57	379612	10.60	ppb	100
49) Carbon Tetrachloride	4.67	117	142525	10.10	ppb	95
50) Tert Amyl Methyl Ether	4.96	73	236783	10.74	ppb	96
51) Methylcyclopentane	4.01	56	16499	10.03	ppb	100
52) 1,2-DCA	4.84	62	137966	9.43	ppb	98
53) Benzene	4.84	78	440500	10.38	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z25.D Vial: 13
Acq On : 19 Oct 20 16:29 Operator: LP,DG,CH
Sample : 201019A LCS 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.39	130	136794	10.32	ppb		95
55)	2-Pentanone	5.55	43	990464	124.90	ppb		99
56)	1,2-Dichloropropane	5.58	63	102144	10.38	ppb	#	95
57)	Bromodichloromethane	5.81	83	117478	9.97	ppb		100
58)	Methyl Cyclohexane	5.57	83	190065	10.60	ppb		100
59)	Dibromomethane	5.67	174	75431	9.97	ppb		97
60)	MIBK (methyl isobutyl ket	6.35	43	477964	51.23	ppb		96
61)	1-Bromo-2-chloroethane	6.08	144	17557	10.19	ppb		99
62)	2-Chloroethyl vinyl ether	6.08	43	234155	52.65	ppb		100
63)	Cis-1,3-Dichloropropene	6.20	75	152298	10.50	ppb		98
64)	Toluene	6.51	91	463763	10.30	ppb		99
65)	Trans-1,3-Dichloropropene	6.69	75	125022	10.58	ppb		97
66)	1,1,2-TCA	6.85	97	89896	10.05	ppb		94
67)	2-Hexanone	7.09	43	329234	52.22	ppb		99
70)	1,2-EDB	7.30	107	94642	10.53	ppb		97
71)	Tetrachloroethene	6.99	166	130885	10.27	ppb		94
72)	1-Chlorohexane	7.75	91	146323	9.91	ppb		97
73)	1,1,1,2-Tetrachloroethane	7.84	131	98603	10.86	ppb		98
74)	m&p-Xylene	7.98	91	770376	21.96	ppb		99
75)	o-Xylene	8.35	91	387835	11.08	ppb		97
76)	Styrene	8.36	104	296941	11.11	ppb		99
78)	1,3-Dichloropropane	7.00	76	149583	10.58	ppb		99
79)	Dibromochloromethane	7.20	129	89296	10.24	ppb		98
80)	Chlorobenzene	7.76	112	306401	10.28	ppb		99
81)	Ethylbenzene	7.87	91	498332	10.62	ppb		100
82)	Bromoform	8.51	173	56135	9.06	ppb		98
84)	Isopropylbenzene	8.70	105	502162	11.10	ppb		99
85)	1,1,2,2-Tetrachloroethane	8.97	83	103841	10.50	ppb	#	97
86)	1,2,3-Trichloropropane	9.01	110	37212	10.18	ppb		88
87)	t-1,4-Dichloro-2-Butene	9.02	53	26398	9.19	ppb		97
88)	Bromobenzene	8.97	77	212739	10.27	ppb		99
89)	n-Propylbenzene	9.09	91	604162	10.99	ppb		99
90)	4-Ethyltoluene	9.21	105	519937	11.13	ppb		99
91)	2-Chlorotoluene	9.16	91	402664	10.66	ppb		99
92)	1,3,5-Trimethylbenzene	9.26	105	441702	11.03	ppb		99
93)	4-Chlorotoluene	9.27	91	417467	10.83	ppb		98
94)	Tert-Butylbenzene	9.58	119	379583	10.99	ppb		96
95)	1,2,4-Trimethylbenzene	9.63	105	443459	10.01	ppb		99
96)	Sec-Butylbenzene	9.79	105	580771	10.85	ppb		97
97)	p-Isopropyltoluene	9.94	119	491401	11.08	ppb		99
98)	Benzyl Chloride	10.10	91	154348	8.48	ppb		99
99)	1,3-DCB	9.88	146	261439	10.22	ppb		98
100)	1,4-DCB	9.97	146	266525	9.97	ppb		97
101)	n-Butylbenzene	10.33	91	438754	10.86	ppb		97
102)	1,2-DCB	10.33	146	239098	10.36	ppb		99
103)	Hexachloroethane	10.59	201	55684	9.46	ppb		95
104)	1,2-Dibromo-3-chloropropan	11.08	157	22800	9.28	ppb		95
105)	1,2,4-Trichlorobenzene	11.91	180	162542	10.55	ppb		97
106)	Hexachlorobutadiene	12.10	225	84976	10.27	ppb		95
107)	Naphthalene	12.15	128	369679	9.38	ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	147383	10.43	ppb		100

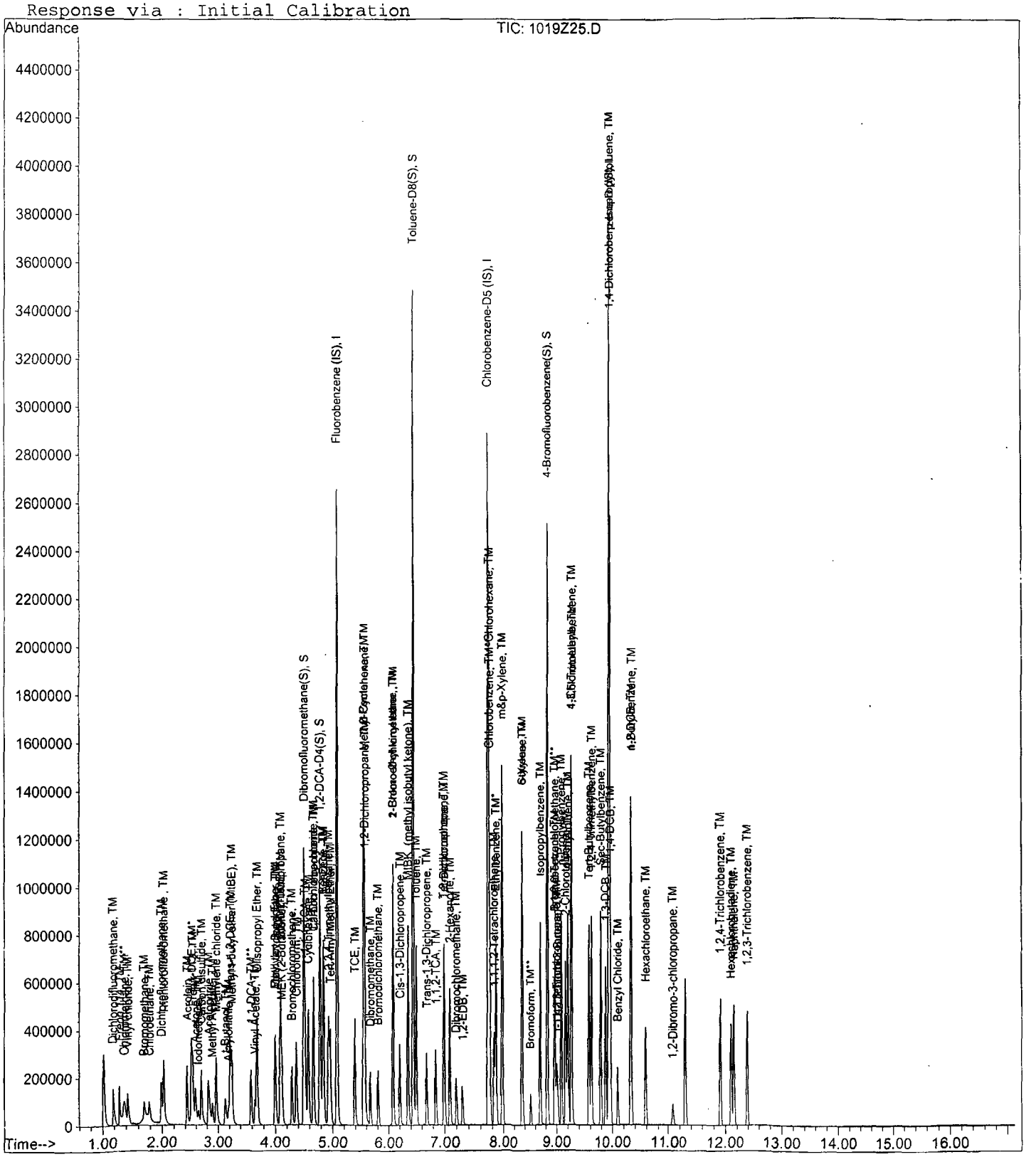
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z25.D Vial: 13
Acq On : 19 Oct 20 16:29 Operator: LP,DG,CH
Sample : 201019A LCS 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z26.D Vial: 14
Acq On : 19 Oct 20 16:52 Operator: LP,DG,CH
Sample : 201019A LCSD 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2011620	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.73	117	1419512	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.95	152	811580	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.50	111	557694	26.46	ppb	0.00
Spiked Amount 25.000			Recovery = 105.844%			
48) 1,2-DCA-D4(S)	4.78	65	584787	25.88	ppb	0.00
Spiked Amount 25.000			Recovery = 103.516%			
69) Toluene-D8(S)	6.44	98	1971280	27.88	ppb	0.00
Spiked Amount 25.000			Recovery = 111.512%			
77) 4-Bromofluorobenzene(S)	8.83	95	725639	27.86	ppb	0.00
Spiked Amount 25.000			Recovery = 111.440%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.18	87	43867	10.92	ppb	97
4) Freon 114	1.29	85	46093	10.67	ppb	97
5) Chloromethane	1.37	50	159086	10.63	ppb	100
6) Vinyl chloride	1.43	62	117416	10.31	ppb	99
9) Bromomethane	1.70	94	40908	12.58	ppb	99
10) Chloroethane	1.78	64	39269	10.10	ppb	98
11) Dichlorofluoromethane	1.99	67	171610	11.93	ppb	99
12) Trichlorofluoromethane	2.03	101	186677	10.56	ppb	98
16) Acrolein	2.43	55	131280	122.68	ppb	91
17) Acetone	2.59	43	181509	47.34	ppb	94
18) Freon-113	2.54	101	108297	10.27	ppb	98
19) 1,1-DCE	2.52	61	167765	10.63	ppb	96
21) Acetonitrile	2.83	40	51897	127.52	ppb	97
22) t-Butanol	3.13	59	55352	130.74	ppb	98
23) Methyl Acetate	2.90	43	90971	9.86	ppb	100
24) Iodomethane	2.64	142	88209	8.94	ppb	97
25) Acrylonitrile	3.19	52	38479	10.46	ppb	98
26) Methylene chloride	2.97	84	119384	9.68	ppb	95
27) Carbon disulfide	2.70	76	169664	10.64	ppb	100
28) Methyl t-butyl ether (MtBE	3.25	73	251791	10.58	ppb	98
29) Trans-1,2-DCE	3.21	61	156164	10.51	ppb	96
31) Diisopropyl Ether	3.69	45	342677	11.08	ppb	97
33) 1,1-DCA	3.59	63	188111	10.52	ppb	99
34) Vinyl Acetate	3.65	43	116261	7.99	ppb	100
35) Ethyl tert Butyl Ether	4.00	59	277379	10.89	ppb	99
36) MEK (2-Butanone)	4.12	43	255467	49.82	ppb	100
37) Cis-1,2-DCE	4.09	61	174150	10.46	ppb	96
38) 2,2-Dichloropropane	4.09	77	139454	9.78	ppb	97
41) Chloroform	4.37	83	186423	10.16	ppb	100
42) Bromochloromethane	4.29	49	94841	10.36	ppb	99
44) 1,1,1-TCA	4.52	97	168551	10.47	ppb	98
45) Cyclohexane	4.58	56	190346	10.83	ppb	99
46) 1,1-Dichloropropene	4.67	75	146213	10.71	ppb	96
47) 2,2,4-Trimethylpentane	4.93	57	381926	10.84	ppb	100
49) Carbon Tetrachloride	4.67	117	143749	10.35	ppb	99
50) Tert Amyl Methyl Ether	4.97	73	233957	10.79	ppb	96
51) Methylcyclopentane	4.00	56	16551	10.22	ppb	100
52) 1,2-DCA	4.84	62	138717	9.64	ppb	100
53) Benzene	4.84	78	442633	10.60	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z26.D Vial: 14
Acq On : 19 Oct 20 16:52 Operator: LP,DG,CH
Sample : 201019A LCSD 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 9:03 2020 Quant Results File: Z1019W.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	TCE	5.40	130	137525	10.54	ppb		94
55)	2-Pentanone	5.55	43	965299	123.69	ppb		99
56)	1,2-Dichloropropane	5.58	63	102804	10.62	ppb	#	96
57)	Bromodichloromethane	5.81	83	118513	10.22	ppb		99
58)	Methyl Cyclohexane	5.57	83	192725	10.92	ppb		100
59)	Dibromomethane	5.67	174	76766	10.31	ppb		96
60)	MIBK (methyl isobutyl ket	6.35	43	469873	51.18	ppb		97
61)	1-Bromo-2-chloroethane	6.08	144	17387	10.25	ppb		100
62)	2-Chloroethyl vinyl ether	6.08	43	234389	53.56	ppb		98
63)	Cis-1,3-Dichloropropene	6.20	75	152378	10.68	ppb		95
64)	Toluene	6.50	91	466244	10.53	ppb		98
65)	Trans-1,3-Dichloropropene	6.69	75	124124	10.67	ppb		99
66)	1,1,2-TCA	6.85	97	89064	10.12	ppb		94
67)	2-Hexanone	7.09	43	319642	51.52	ppb		98
70)	1,2-EDB	7.30	107	93965	10.60	ppb		98
71)	Tetrachloroethene	6.99	166	133029	10.58	ppb		96
72)	1-Chlorohexane	7.75	91	147455	10.12	ppb		96
73)	1,1,1,2-Tetrachloroethane	7.84	131	98798	11.03	ppb		99
74)	m&p-Xylene	7.98	91	782953	22.62	ppb		99
75)	o-Xylene	8.35	91	390958	11.32	ppb		98
76)	Styrene	8.36	104	302102	11.45	ppb		100
78)	1,3-Dichloropropane	7.00	76	148263	10.63	ppb		97
79)	Dibromochloromethane	7.20	129	88789	10.32	ppb		99
80)	Chlorobenzene	7.76	112	307917	10.47	ppb		100
81)	Ethylbenzene	7.87	91	503928	10.88	ppb		99
82)	Bromoform	8.51	173	54173	8.91	ppb		94
84)	Isopropylbenzene	8.70	105	505352	11.21	ppb		99
85)	1,1,2,2-Tetrachloroethane	8.97	83	102299	10.38	ppb		100
86)	1,2,3-Trichloropropane	9.01	110	37518	10.30	ppb	#	88
87)	t-1,4-Dichloro-2-Butene	9.02	53	25427	8.94	ppb		95
88)	Bromobenzene	8.97	77	213974	10.36	ppb		98
89)	n-Propylbenzene	9.09	91	612832	11.18	ppb		100
90)	4-Ethyltoluene	9.21	105	526778	11.31	ppb		99
91)	2-Chlorotoluene	9.16	91	403972	10.73	ppb		99
92)	1,3,5-Trimethylbenzene	9.26	105	447649	11.22	ppb		100
93)	4-Chlorotoluene	9.27	91	418992	10.91	ppb		99
94)	Tert-Butylbenzene	9.58	119	388007	11.27	ppb		96
95)	1,2,4-Trimethylbenzene	9.63	105	445436	10.08	ppb		98
96)	Sec-Butylbenzene	9.79	105	586305	10.99	ppb		97
97)	p-Isopropyltoluene	9.94	119	496925	11.24	ppb		99
98)	Benzyl Chloride	10.10	91	150745	8.35	ppb		100
99)	1,3-DCB	9.88	146	263352	10.33	ppb		98
100)	1,4-DCB	9.97	146	267688	10.04	ppb		100
101)	n-Butylbenzene	10.33	91	442092	10.98	ppb		96
102)	1,2-DCB	10.33	146	242909	10.56	ppb		99
103)	Hexachloroethane	10.59	201	58085	9.77	ppb		93
104)	1,2-Dibromo-3-chloropropan	11.08	157	22158	9.11	ppb		97
105)	1,2,4-Trichlorobenzene	11.91	180	164546	10.71	ppb		99
106)	Hexachlorobutadiene	12.10	225	86560	10.50	ppb		95
107)	Naphthalene	12.15	128	369752	9.41	ppb		99
108)	1,2,3-Trichlorobenzene	12.39	180	149827	10.64	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

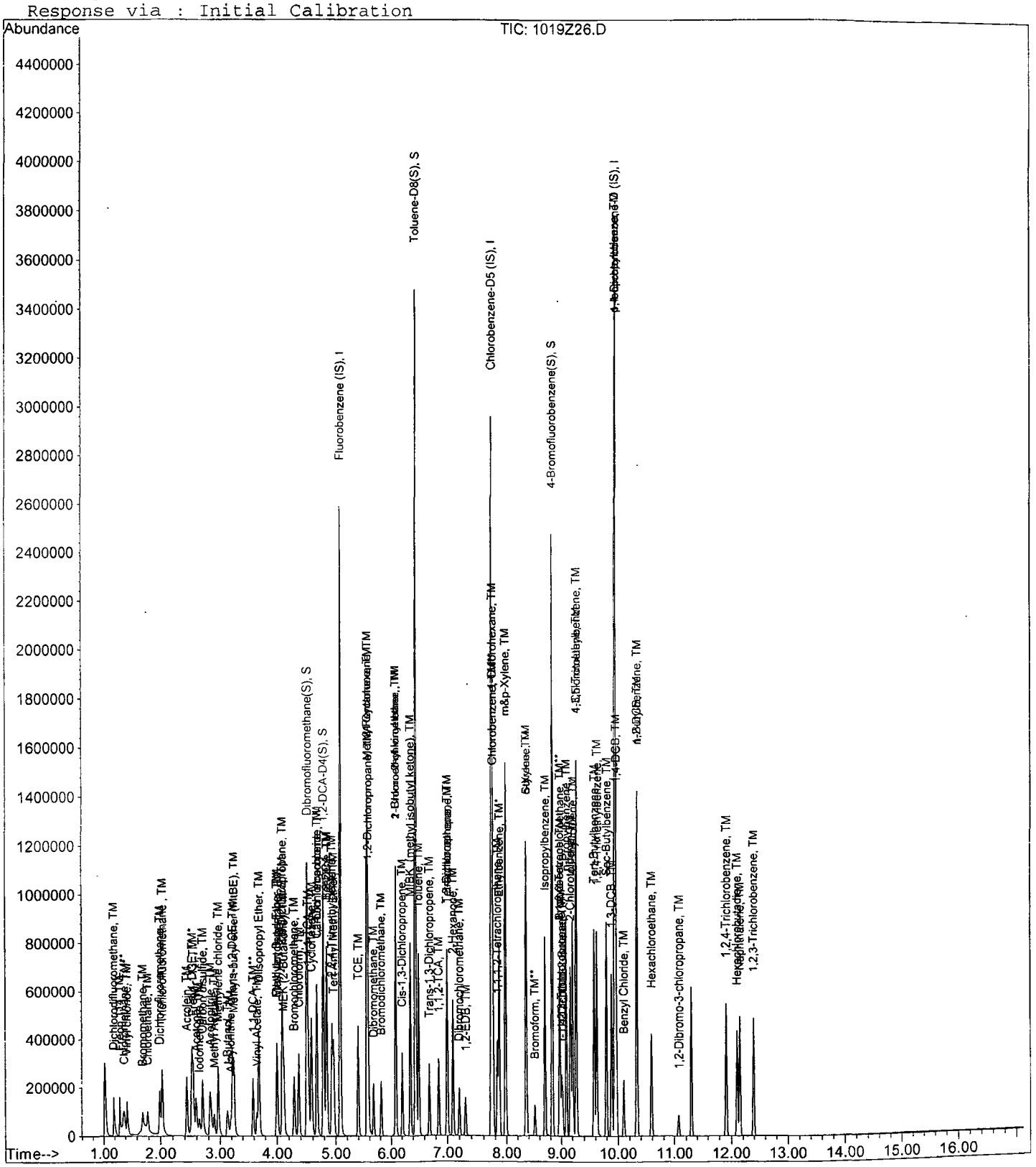
Data File : M:\ZEUS\DATA\201019\1019Z26.D
Acq On : 19 Oct 20 16:52
Sample : 201019A LCSD 10ug/L
Misc :

Vial: 14
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 21 9:03 2020

Quant Results File: Z1019W.RES

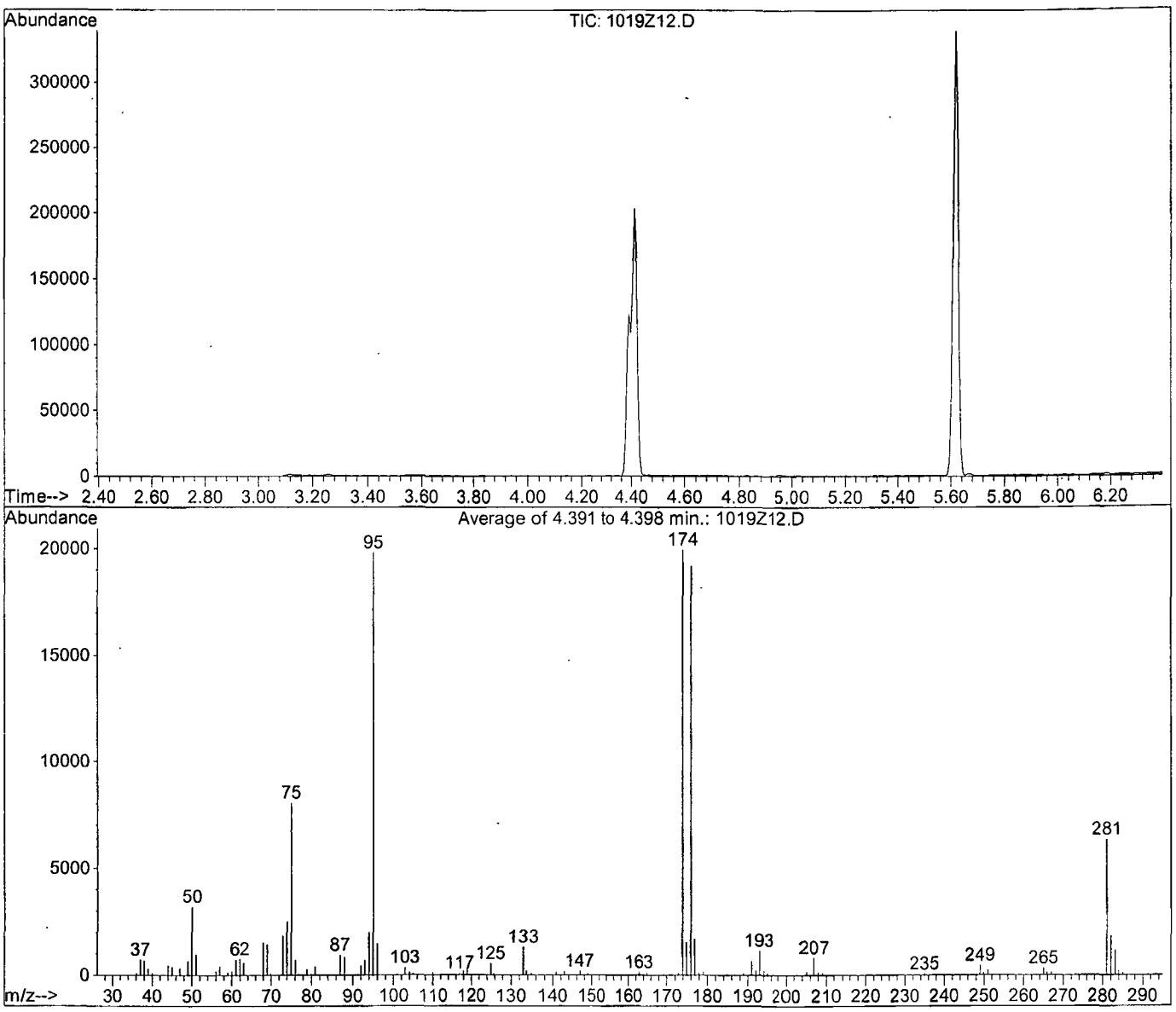
Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 15:39:06 2020
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\201019\1019Z12.D
Acq On : 19 Oct 20 11:23
Sample : 25ug/L BFB STD 9/30/20
Misc :

Vial: 1
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Method : M:\MAX\DATA\201013\MLL1013.M (RTE Integrator)
Title : METHOD 8260B



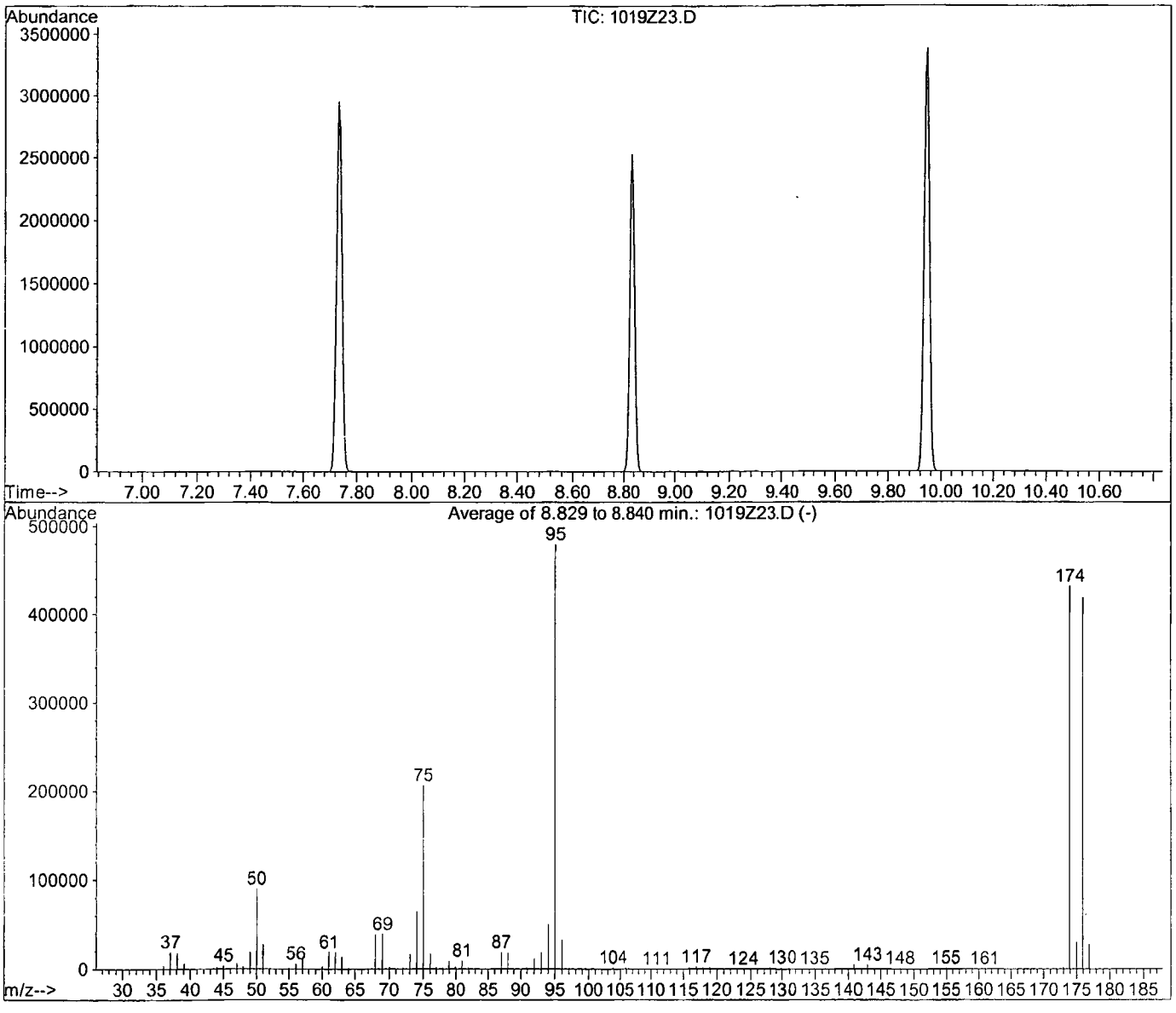
Spectrum Information: Average of 4.391 to 4.398 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	3205	PASS
75	95	30	60	40.7	8062	PASS
95	95	100	100	100.0	19812	PASS
96	95	5	9	7.4	1463	PASS
173	174	0.00	2	0.5	93	PASS
174	95	50	200	100.7	19953	PASS
175	174	5	9	7.7	1533	PASS
176	174	95	101	96.2	19200	PASS
177	176	5	9	8.8	1683	PASS

Data File : M:\ZEUS\DATA\201019\1019Z23.D
Acq On : 19 Oct 20 15:43
Sample : 25ug/L BFB STD 9/30/20
Misc :

Vial: 11
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Method : M:\ZEUS\DATA\201019\Z1019W.M (RTE Integrator)
Title : METHOD 8260B



AutoFind: Scans 1572, 1573, 1574; Background Corrected with Scan 1563

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	90507	PASS
75	95	30	60	43.1	206656	PASS
95	95	100	100	100.0	479744	PASS
96	95	5	9	6.8	32600	PASS
173	174	0.00	2	0.5	2267	PASS
174	95	50	200	90.1	432256	PASS
175	174	5	9	7.0	30251	PASS
176	174	95	101	97.1	419755	PASS
177	176	5	9	6.7	28088	PASS

Zeus 8260 Standard Prep

Zeus 8260 Water Calibration Curve

Prepared By (Initials): CH

0.3ug/L

Prepared: 10/19/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.3ug/L	5	Prepared 10/18/20	12/17/20	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	5uL			5
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	2.5uL			5
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	2uL			10

0.5ug/L

Prepared: 10/19/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.5ug/L	5	Prepared 10/18/20	12/17/20	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	10uL			10
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	5uL			10
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	5uL			25

1.0ug/L

Prepared: 10/19/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	1.0ug/L	5	Prepared 10/18/20	12/17/20	N/A	10uL	50mL	P&T Water	1
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	20uL			20
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	10uL			20
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	10uL			50

2.0ug/L

Prepared: 10/19/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	2.0ug/L	5	Prepared 10/18/20	12/17/20	N/A	20uL	50mL	P&T Water	2
VOA STD 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	30uL			30
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	15uL			30
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	15uL			75

5ug/L

Prepared: 10/19/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 10/18/20	12/17/20	N/A	5uL	50mL	P&T Water	5
VOA STD 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	5uL			5
VOA STD 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	40uL			40
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	20uL			100

10ug/L

Prepared: 10/19/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD 7	Various	10ug/L	50	Prepared 10/18/20	12/17/20	N/A	10uL	50mL	P&T Water	10
VOA STD 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	10uL			10
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	50uL			50
VOA STD 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	25uL			50
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	25uL			125

20ug/L

Prepared: 10/19/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 10/18/20	12/17/20	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	20uL			20
VOA STD 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	60uL			60
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	30uL			60
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	30uL			150

40ug/L

Prepared: 10/19/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 10/18/20	12/17/20	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	40uL			40
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	80uL			80
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	40uL			80
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	35uL			175

100ug/L

Prepared: 10/19/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD 7	Various	100ug/L	50	Prepared 10/18/20	12/17/20	N/A	100uL	50mL	P&T Water	100
VOA STD 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	100uL			100
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	100uL			100
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	50uL			100
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	40uL			200

Zeus 8260 Water Second Source (SS)

Prepared: 10/19/20

Expires: 11/04/20

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD 3	Phenova	8260 Water SS	100	Prepared 10/18/20	12/17/20	N/A	25uL	50mL	P&T Water	50
VOA STD. GASES	Phenova	8260 Water SS	50	Prepared 10/18/20	12/17/20	N/A	10uL			10
VOA STD. 0	Phenova	8260 Water SS	50	Prepared 10/18/20	12/17/20	N/A	10uL			10
VOA STD. 2-CEVE	Absolute	8260 Water SS	50	Prepared 10/18/20	10/18/20	N/A	50uL			50
VOA STD. 6	Various	8260 Water SS	50	Prepared 10/18/20	11/04/20	N/A	10uL			10
Voa STD. TBA	Various	8260 Water SS	250	Prepared 10/18/20	11/04/20	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)

Prepared: 10/19/20

Expires: 10/20/20

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 10/18/20	12/17/20	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 10/18/20	11/04/20	N/A	10uL			10
VOA STD. 1	Absolute	CCV/ LCS	50	Prepared 10/18/20	12/17/20	N/A	50uL			50
VOA STD 2	Phenova	CCV/ LCS	100	Prepared 10/18/20	12/17/20	N/A	25uL			50
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 10/18/20	11/04/20	N/A	25uL			125

Injection Log

Directory: M:\ZEUS\DATA\201019\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1019Z12.D	1	25ug/L BFB STD 9/30/20		19 Oct 20 11:23
2	2	1019Z14.D	1	0.3ug/L VOC STD 10/19/20		19 Oct 20 12:15
3	3	1019Z15.D	1	0.5ug/L VOC STD 10/19/20		19 Oct 20 12:38
4	4	1019Z16.D	1	1ug/L VOC STD 10/19/20		19 Oct 20 13:01
5	5	1019Z17.D	1	2ug/L VOC STD 10/19/20		19 Oct 20 13:24
6	6	1019Z18.D	1	5ug/L VOC STD 10/19/20		19 Oct 20 13:47
7	7	1019Z19.D	1	10ug/L VOC STD 10/19/20		19 Oct 20 14:10
8	8	1019Z20.D	1	20ug/L VOC STD 10/19/20		19 Oct 20 14:33
9	9	1019Z21.D	1	40ug/L VOC STD 10/19/20		19 Oct 20 14:57
10	10	1019Z22.D	1	100ug/L VOC STD 10/19/20		19 Oct 20 15:20
11	11	1019Z23.D	1	25ug/L BFB STD 9/30/20		19 Oct 20 15:43
12	12	1019Z24.D	1	(SS) 10ug/L VOC STD 10/19/20		19 Oct 20 16:06
13	13	1019Z25.D	1	201019A LCS 10ug/L		19 Oct 20 16:29
14	14	1019Z26.D	1	201019A LCSD 10ug/L		19 Oct 20 16:52
15	18	1019Z30.D	1	201019A BLK		19 Oct 20 18:25
16	26	1019Z38.D	1	BA20267W01		19 Oct 20 21:30
17	27	1019Z39.D	1	BA20268W01		19 Oct 20 21:54
18	43	1019Z55.D	1	Ending CCV 10ug/L 10/19/20		20 Oct 20 04:05

ORGANICS

Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc
Case No:
Matrix: Water
SDG No.
Initial Cal. Date: 10/17/20
Instrument: ZEUS
Initials: CH

			1017Z04 D	1017Z05.D	1017Z06 D	1017Z07 D	1017Z08 D	1017Z09 D	1017Z10 D										
		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	TMHBL	Gasoline C6-C10	9.666	4.019	2.087	1 036	0 7354	0.6257	0.6352				2.7	123	TMHB	0.993		
3	I	Chlorobenzene-D5 (IS)																
4	I	1,4-Dichlorobenzene-D (IS)																
5																		
6																		
7																		
8																		
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Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z04.D Vial: 3
Acq On : 17 Oct 20 11:16 Operator: LP,DG,CH
Sample : 20ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:36 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2032356	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2446982	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2446982	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	15715311m	26.37	ppb	100

(#) = qualifier out of range (m) = manual integration
1017Z04.D ZGAS1017.M Mon Oct 19 13:45:07 2020

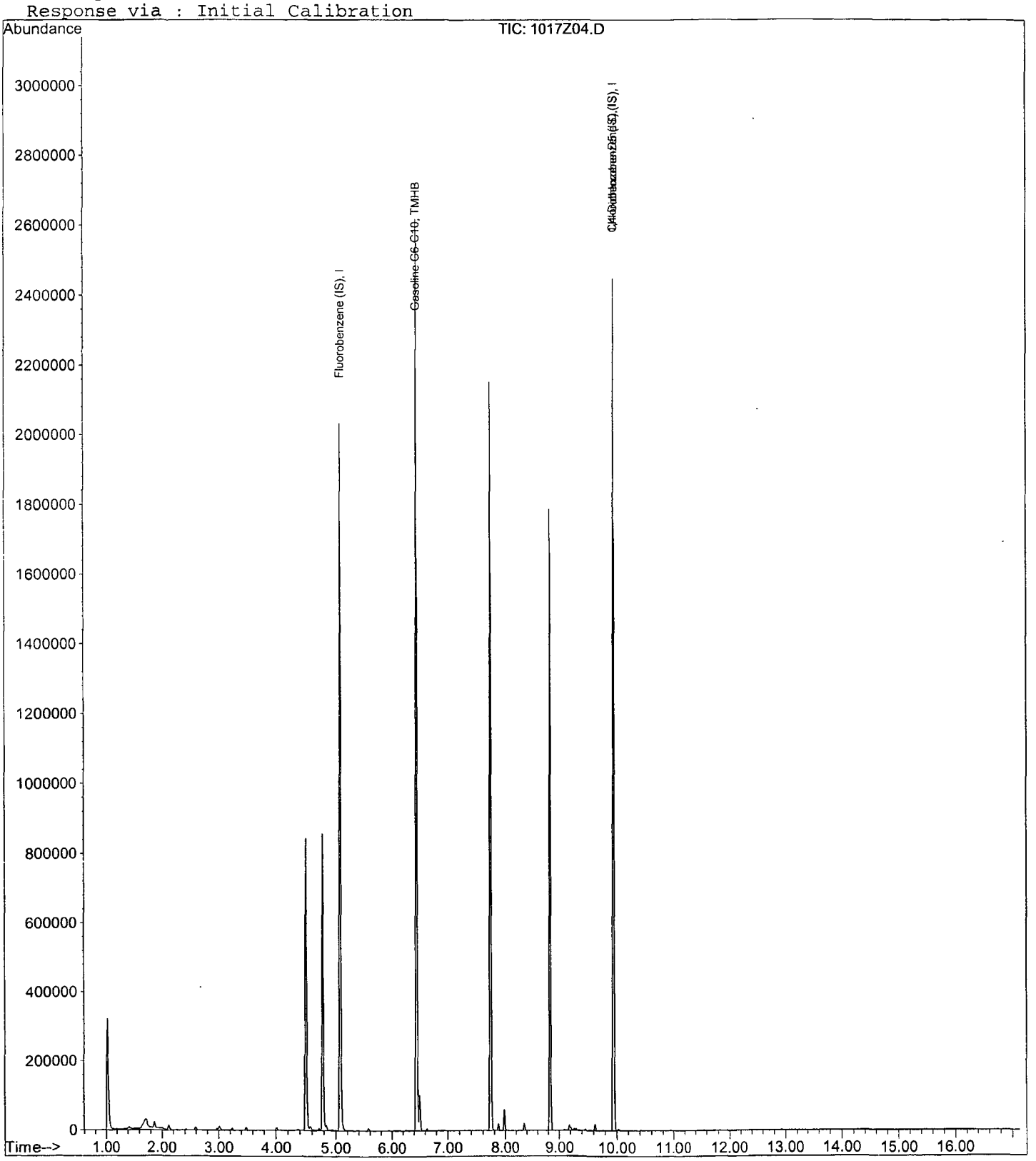
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z04.D
Acq On : 17 Oct 20 11:16
Sample : 20ug/L GAS STD 10/16/20
Misc :

Vial: 3
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:36 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z05.D Vial: 4
Acq On : 17 Oct 20 11:39 Operator: LP,DG,CH
Sample : 50ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:37 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2100142	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2465426	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2465426	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	16878977m	46.11	ppb	100

(#) = qualifier out of range (m) = manual integration
1017Z05.D ZGAS1017.M Mon Oct 19 13:45:50 2020

Quantitation Report

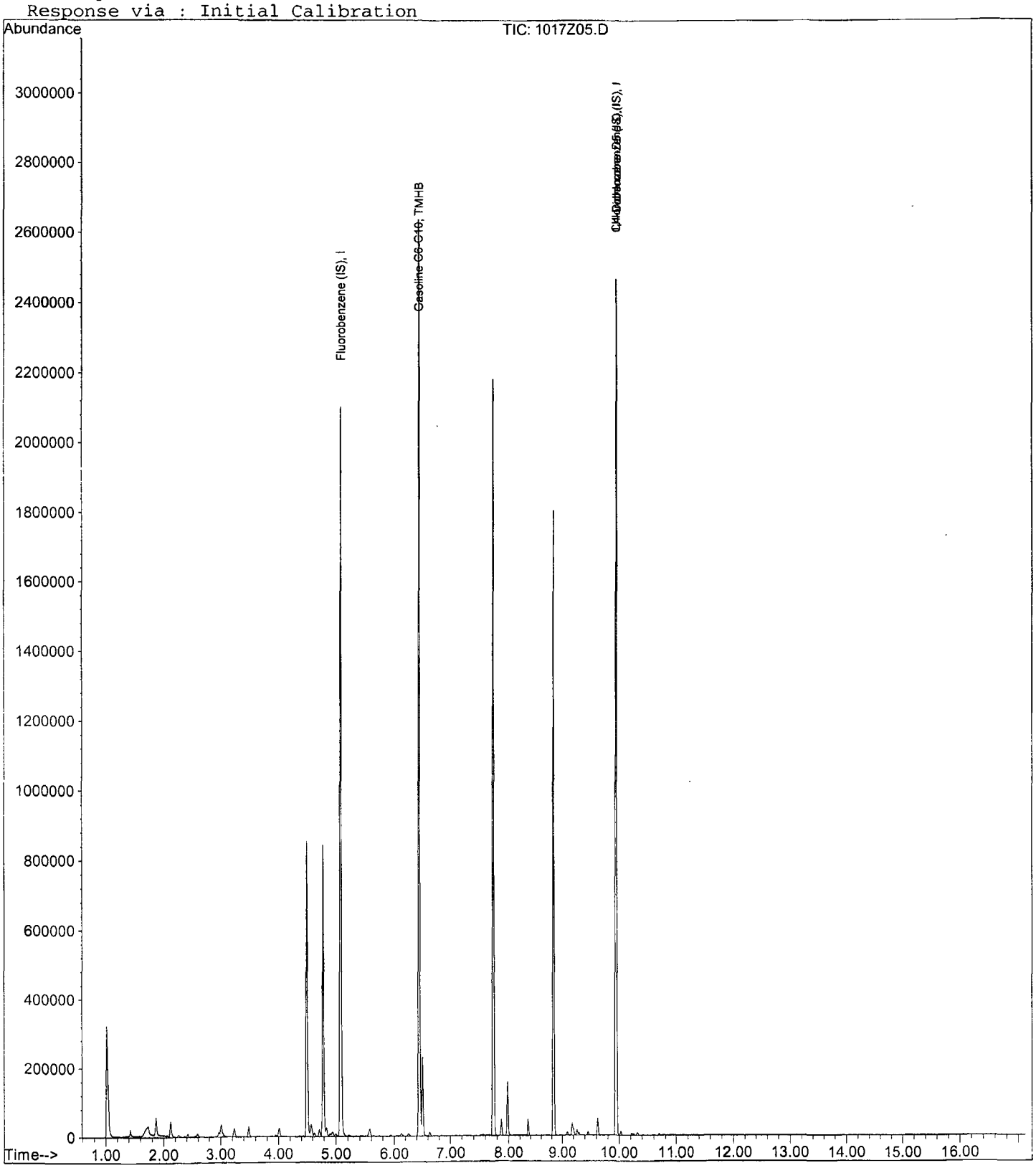
Data File : M:\ZEUS\DATA\201016\1017Z05.D
Acq On : 17 Oct 20 11:39
Sample : 50ug/L GAS STD 10/16/20
Misc :

Vial: 4
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:37 2020

Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z06.D Vial: 5
Acq On : 17 Oct 20 12:02 Operator: LP,DG,CH
Sample : 100ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:37 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2080794	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2462306	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2462306	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline C6-C10	6.45	TIC	17371266m	66.29 ppb	100

(#) = qualifier out of range (m) = manual integration
1017Z06.D ZGAS1017.M Mon Oct 19 13:56:07 2020

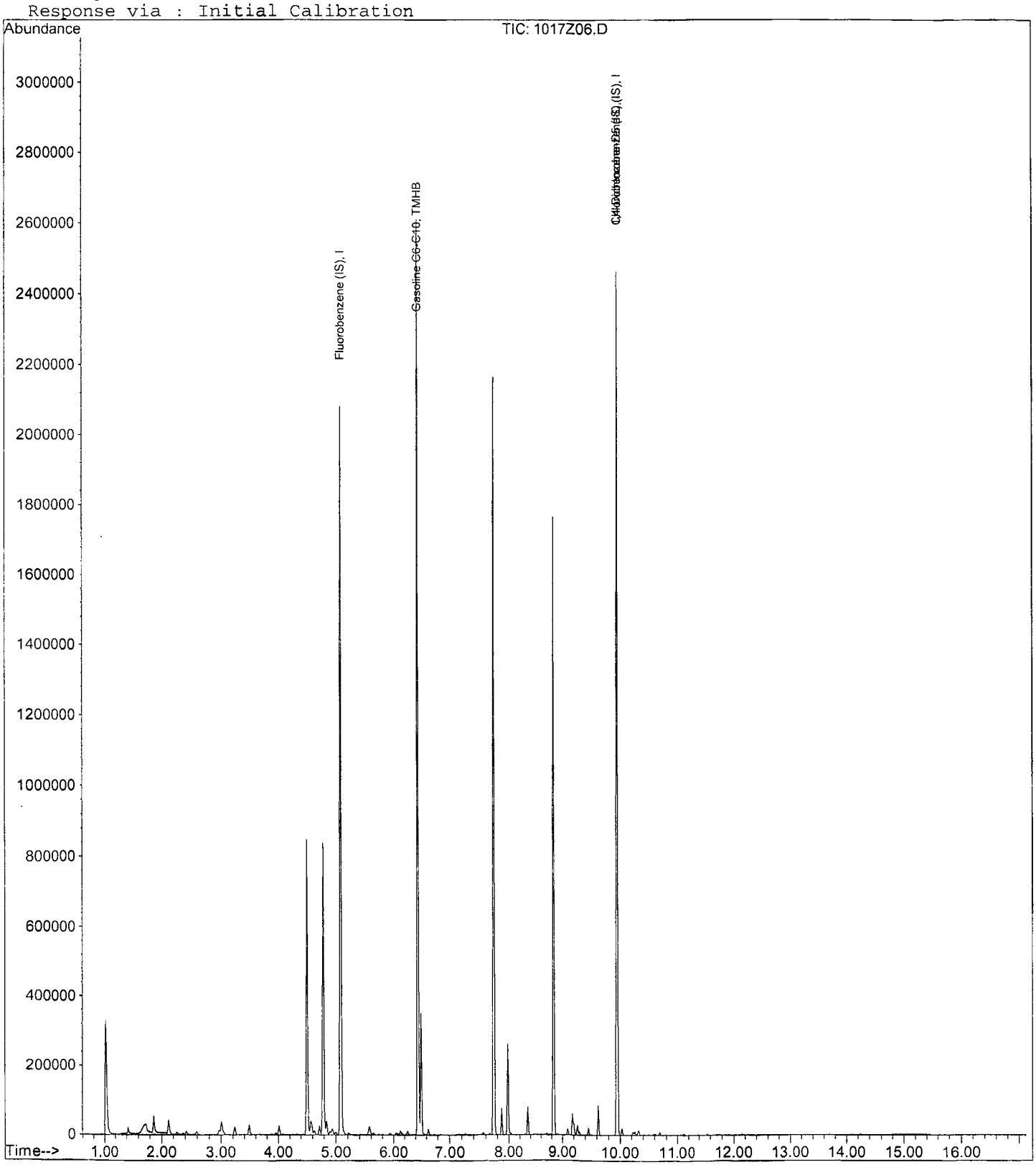
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z06.D
Acq On : 17 Oct 20 12:02
Sample : 100ug/L GAS STD 10/16/20
Misc :

Vial: 5
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:37 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z07.D
Acq On : 17 Oct 20 12:25
Sample : 300ug/L GAS STD 10/16/20
Misc :

Vial: 6
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:38 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2154973	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2524592	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2524592	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	26788366m	330.93	ppb	100

(#) = qualifier out of range (m) = manual integration
1017Z07.D ZGAS1017.M Mon Oct 19 13:45:50 2020

Quantitation Report

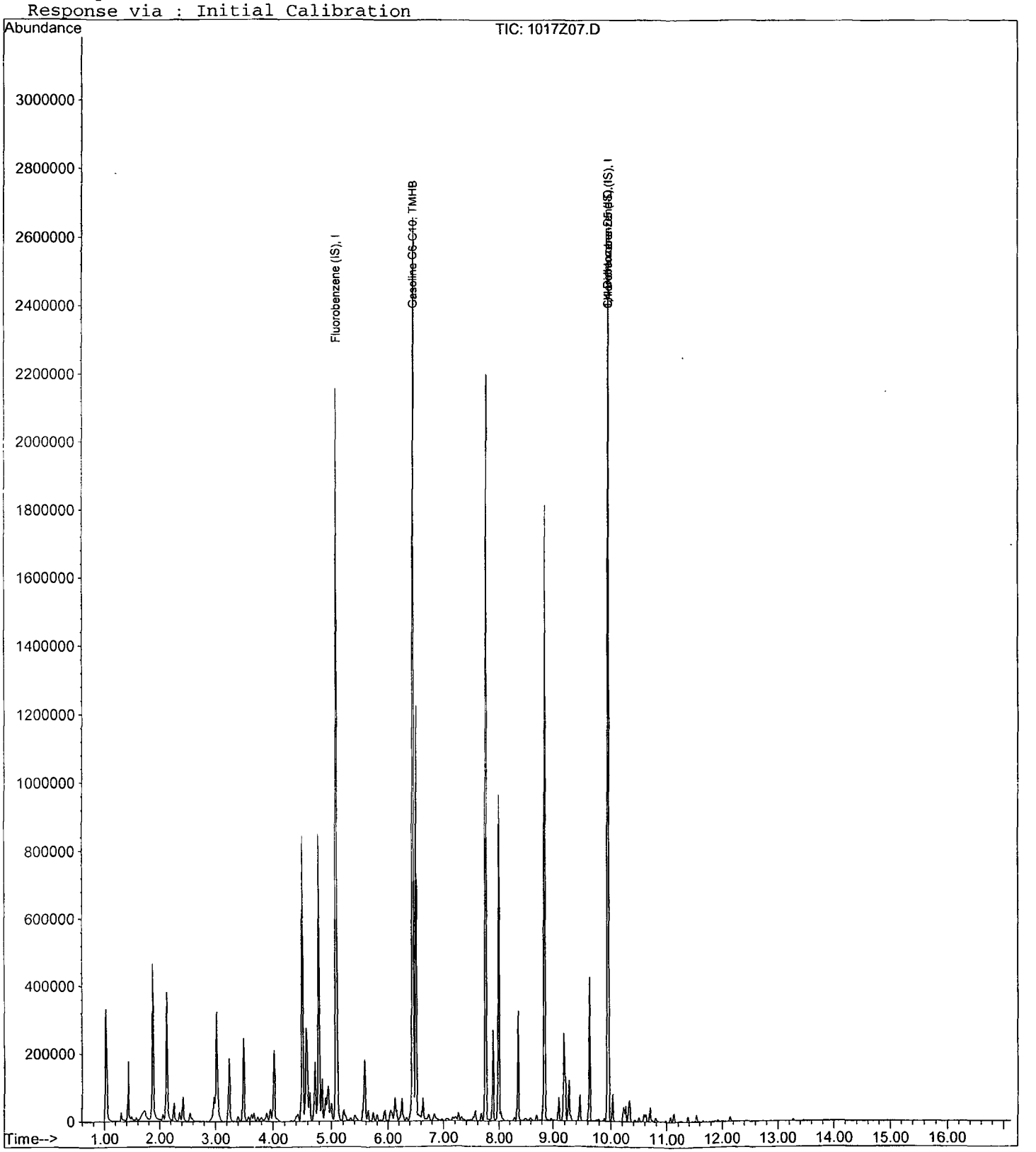
Data File : M:\ZEUS\DATA\201016\1017Z07.D
Acq On : 17 Oct 20 12:25
Sample : 300ug/L GAS STD 10/16/20
Misc :

Vial: 6
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:38 2020

Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z08.D Vial: 7
Acq On : 17 Oct 20 12:48 Operator: LP,DG,CH
Sample : 600ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:39 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2336650	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2686218	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2686218	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline C6-C10	6.45	TIC	41240900m	669.21 ppb	100

(#) = qualifier out of range (m) = manual integration
1017Z08.D ZGAS1017.M Mon Oct 19 13:39:11 2020

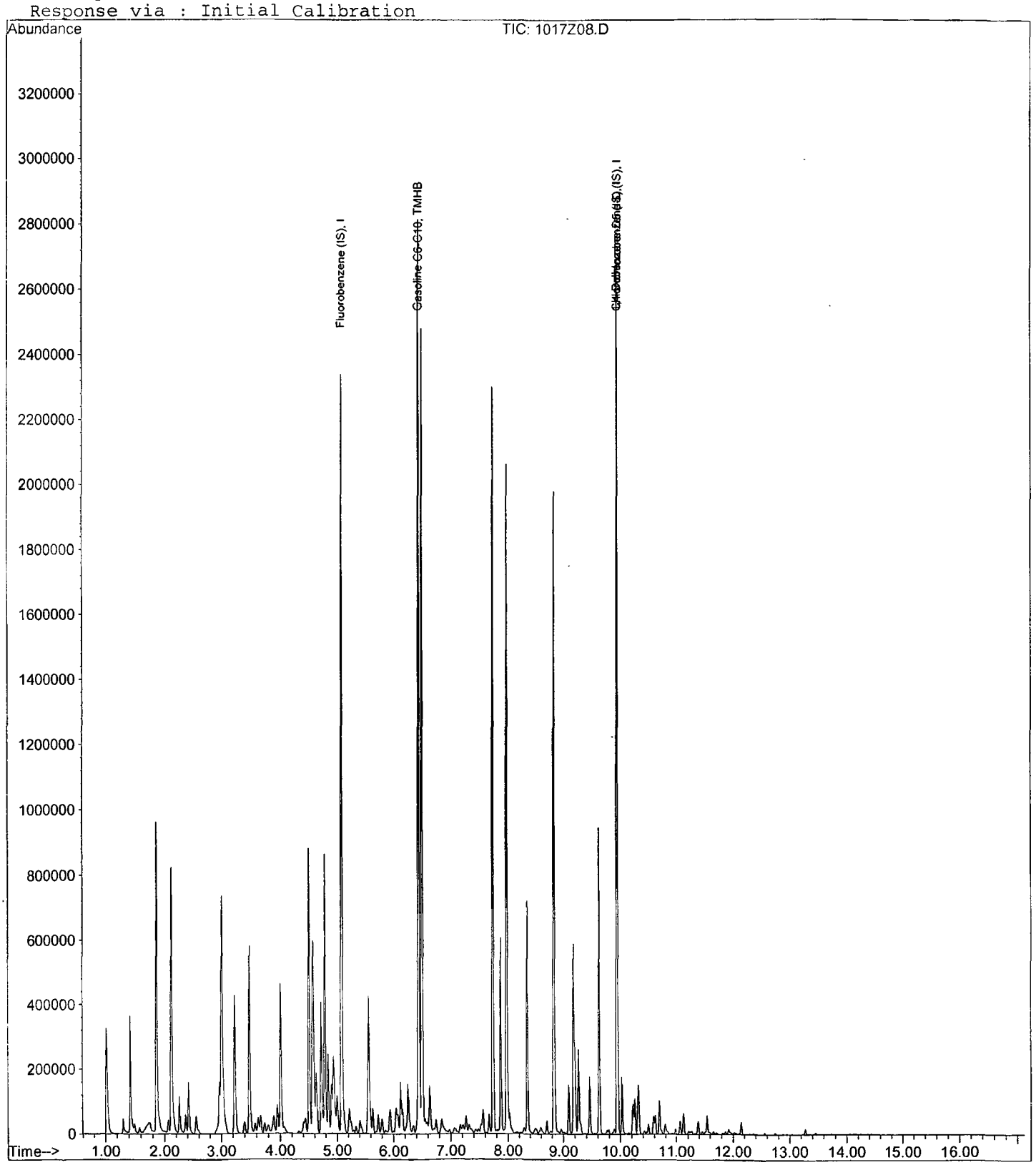
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z08.D
Acq On : 17 Oct 20 12:48
Sample : 600ug/L GAS STD 10/16/20
Misc :

Vial: 7
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:39 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z09.D Vial: 8
Acq On : 17 Oct 20 13:11 Operator: LP,DG,CH
Sample : 800ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:40 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2524254	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2841418	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2841418	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline C6-C10	6.51	TIC	50545305m	823.11 ppb	100

(#) = qualifier out of range (m) = manual integration
1017Z09.D ZGAS1017.M Mon Oct 19 13:52:02 2020

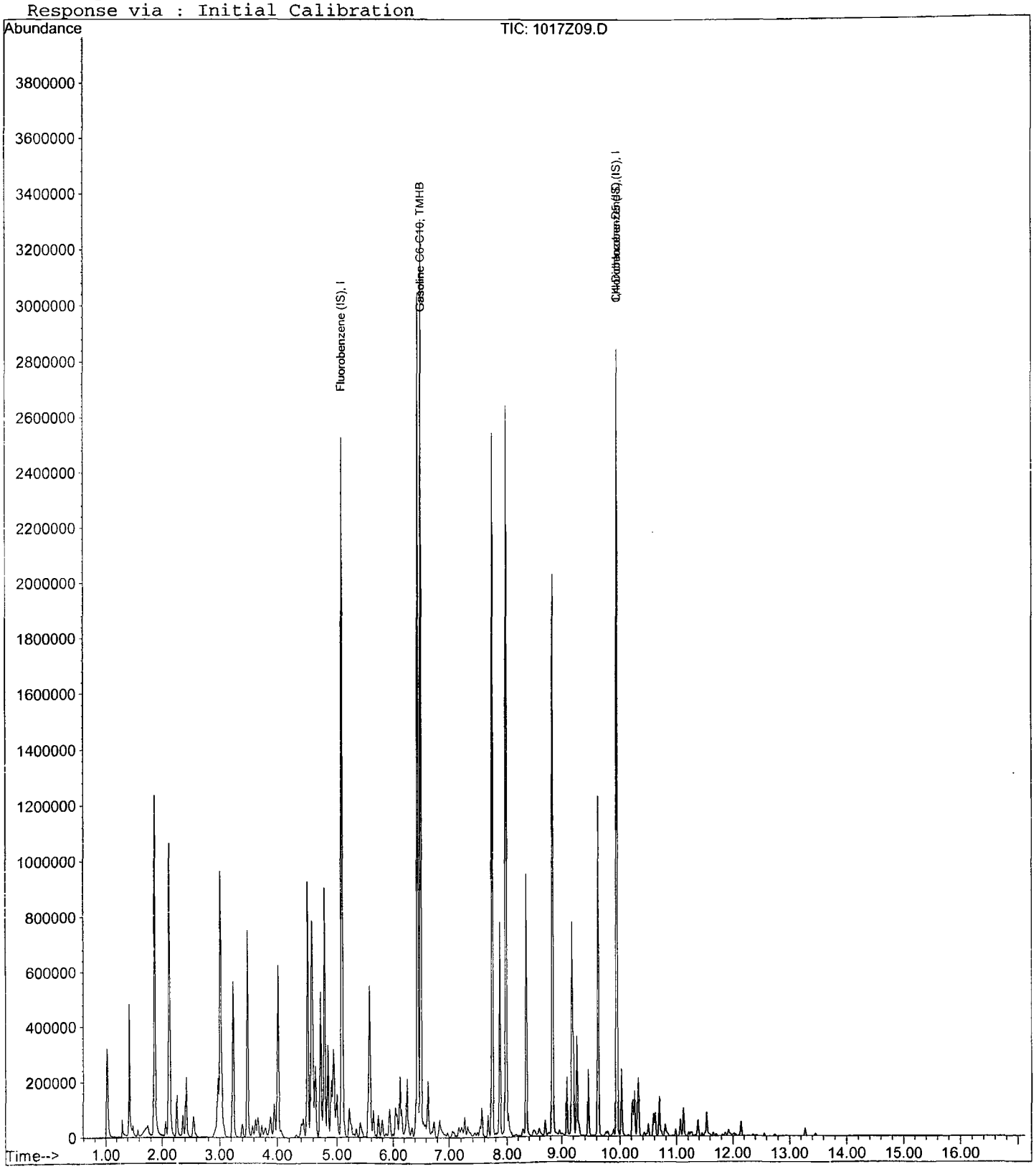
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z09.D
Acq On : 17 Oct 20 13:11
Sample : 800ug/L GAS STD 10/16/20
Misc :

Vial: 8
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:40 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z10.D Vial: 9
Acq On : 17 Oct 20 13:35 Operator: LP,DG,CH
Sample : 1000ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:40 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:35:24 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2695131	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2988393	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2988393	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.50	TIC	68474127m	1172.03	ppb	100

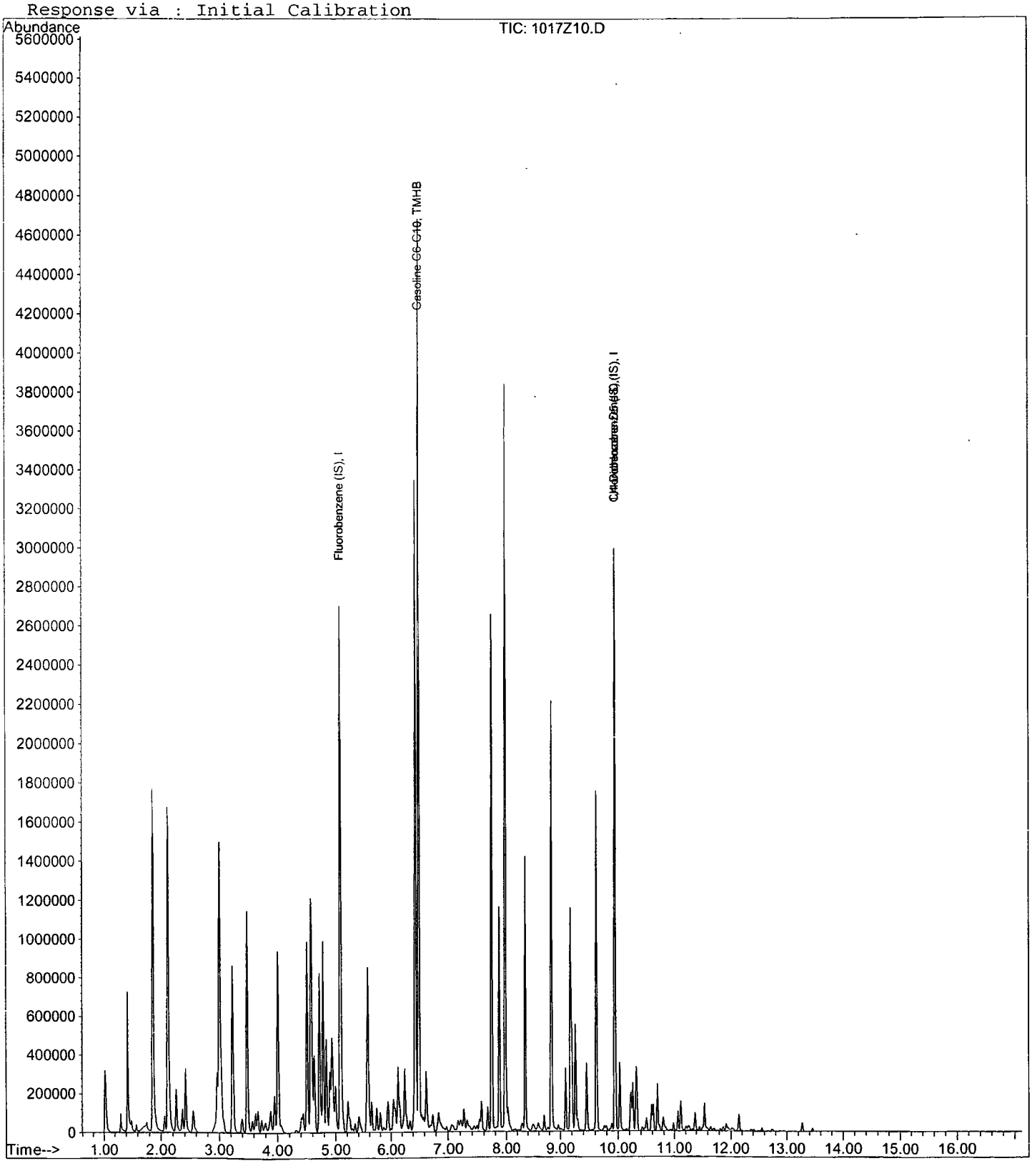
(#) = qualifier out of range (m) = manual integration
1017Z10.D ZGAS1017.M Mon Oct 19 13:41:40 2020 Page 1

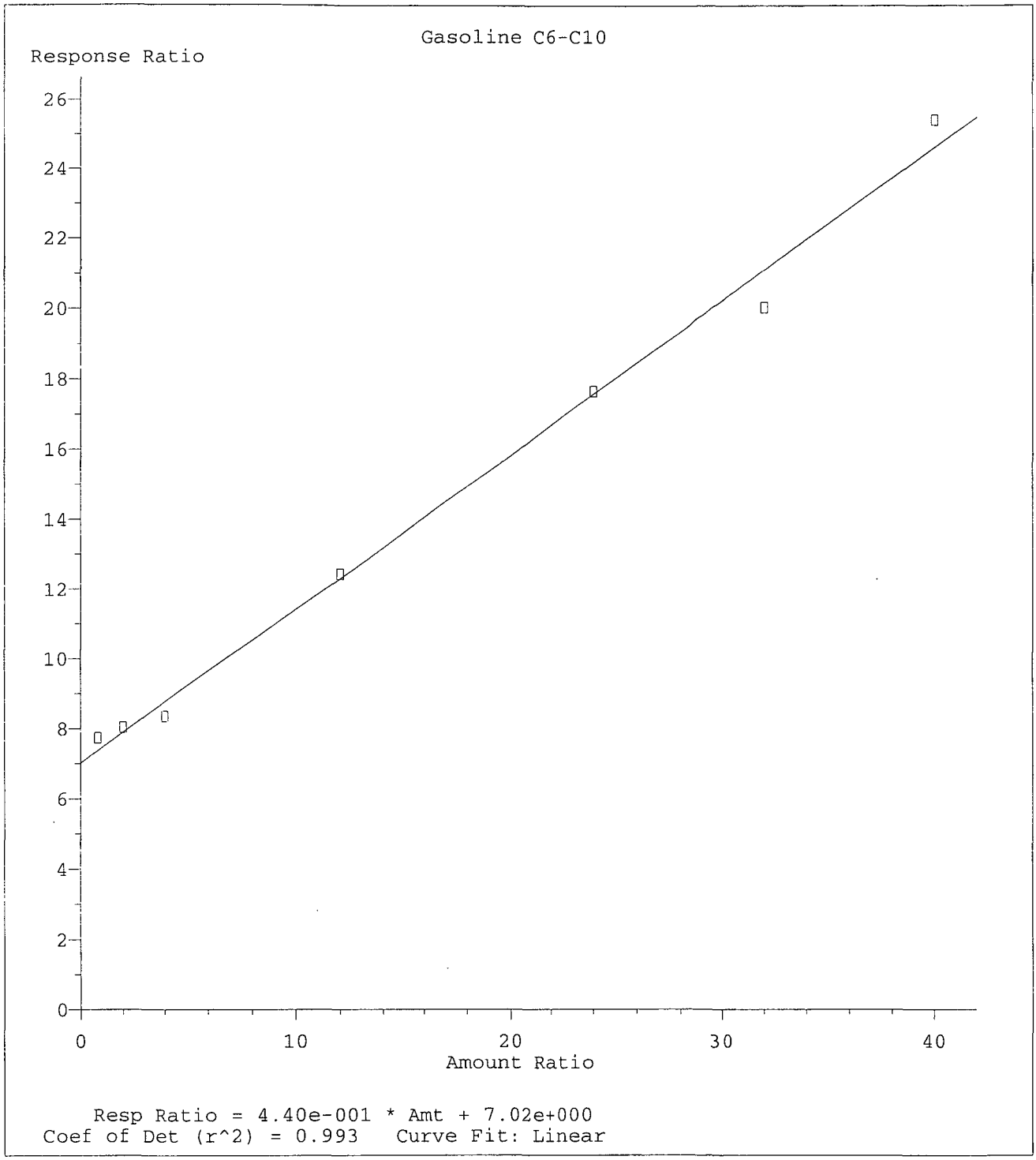
Quantitation Report

Data File : M:\ZEUS\DATA\201016\1017Z10.D Vial: 9
Acq On : 17 Oct 20 13:35 Operator: LP,DG,CH
Sample : 1000ug/L GAS STD 10/16/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 19 8:40 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration





Method Name: M:\ZEUS\DATA\201016\ZGAS1017.M
Calibration Table Last Updated: Mon Oct 19 08:44:17 2020

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/17/20
Instrument: ZEUS
Initial Cal. Date: 10/17/20
Data File: 1017Z11.D

		Compound	MEAN	CCRF	%D		%Drift
1	TMHB	Gasoline C6-C10	2.686	0.9597	64	TMHBL	15
2							
3							
4							
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		Average			64.0		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201016\1017Z11.D
Acq On : 17 Oct 20 13:58
Sample : (SS) 300ug/L GAS STD 10/16/20
Misc :

Vial: 10
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:47 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2638646	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	3170844	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	3170844	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	30387543m	255.54	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

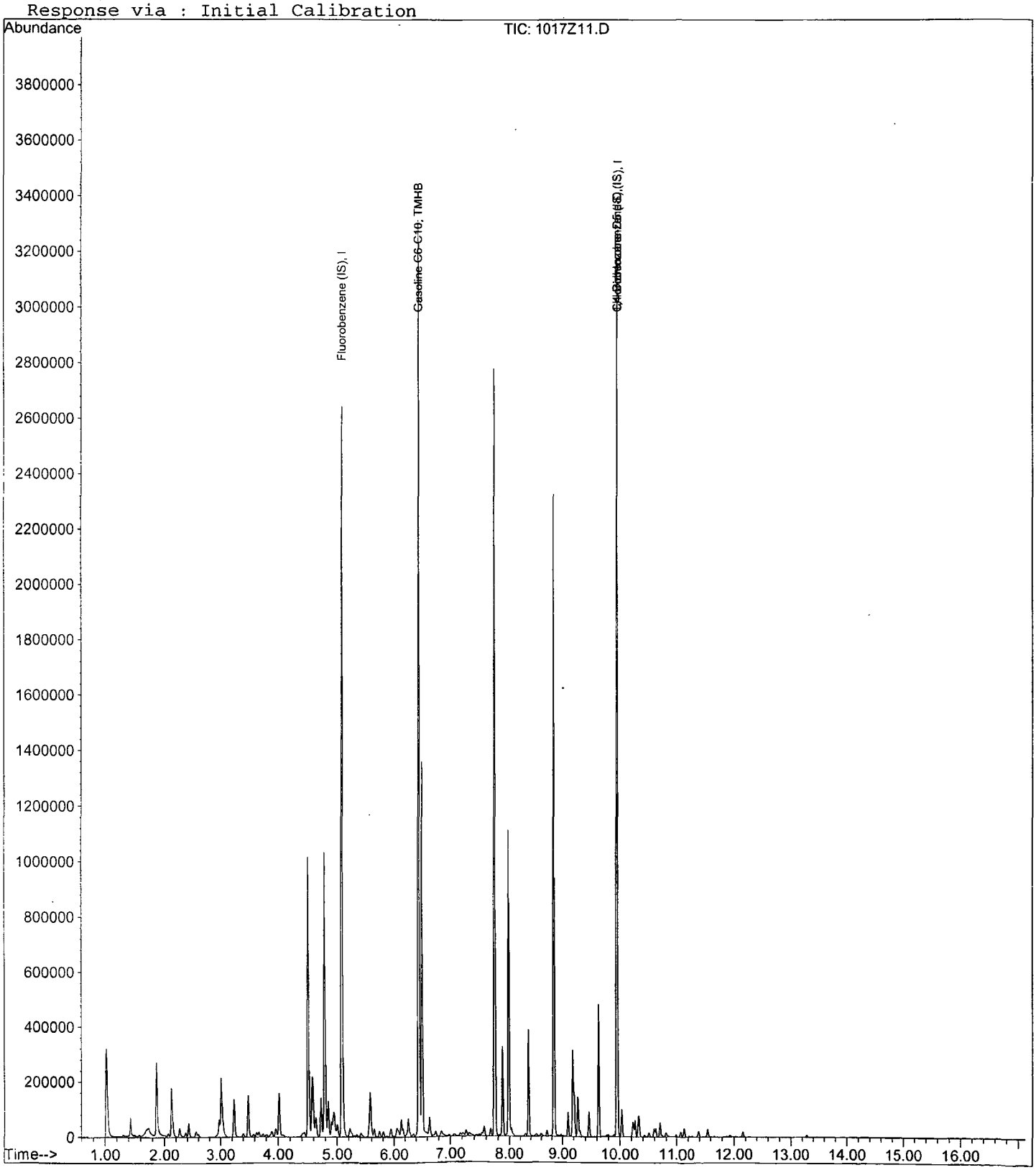
Data File : M:\ZEUS\DATA\201016\1017Z11.D
Acq On : 17 Oct 20 13:58
Sample : (SS) 300ug/L GAS STD 10/16/20
Misc :

Vial: 10
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 19 8:47 2020

Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No. Initial Cal. Date: 10/19/20
Matrix: Water Instrument: ZEUS Initials: CH

		Compound	1019Z14.D	1019Z15.D	1019Z16 D	1019Z17 D	1019Z18 D	1019Z19.D	1019Z20 D	1019Z21 D	1019Z22 D		Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	S	Dibromofluoromethane(S)	0.2106	0.2246	0.2631	0.2619	0.2860	0.2869	0.2812	0.2793	0.2638		0.26	10	S			
3	S	1,2-DCA-D4(S)	0.2333	0.2390	0.2855	0.2840	0.3055	0.3057	0.2975	0.2982	0.2787		0.28	9.6	S			
4	I	Chlorobenzene-D5 (IS)																
5	S	Toluene-D8(S)	1.027	1.037	1.253	1.263	1.359	1.370	1.329	1.346	1.223		1.2	11	S			
6	S	4-Bromofluorobenzene(S)	0.3569	0.3563	0.4527	0.4521	0.5020	0.5067	0.5016	0.5094	0.4908		0.46	13	S			
7	I	1,4-Dichlorobenzene-D (IS)																
8																		
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10																		
11																		
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Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z14.D Vial: 2
Acq On : 19 Oct 20 12:15 Operator: LP,DG,CH
Sample : 0.3ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1774887	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1283333	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	734864	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	74754	4.02	ppb	0.00
Spiked Amount 25.000			Recovery =	16.080%		
3) 1,2-DCA-D4(S)	4.78	65	82830	4.15	ppb	0.00
Spiked Amount 25.000			Recovery =	16.620%		
5) Toluene-D8(S)	6.44	98	263703	4.13	ppb	0.00
Spiked Amount 25.000			Recovery =	16.500%		
6) 4-Bromofluorobenzene(S)	8.83	95	91593	3.89	ppb	0.00
Spiked Amount 25.000			Recovery =	15.560%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

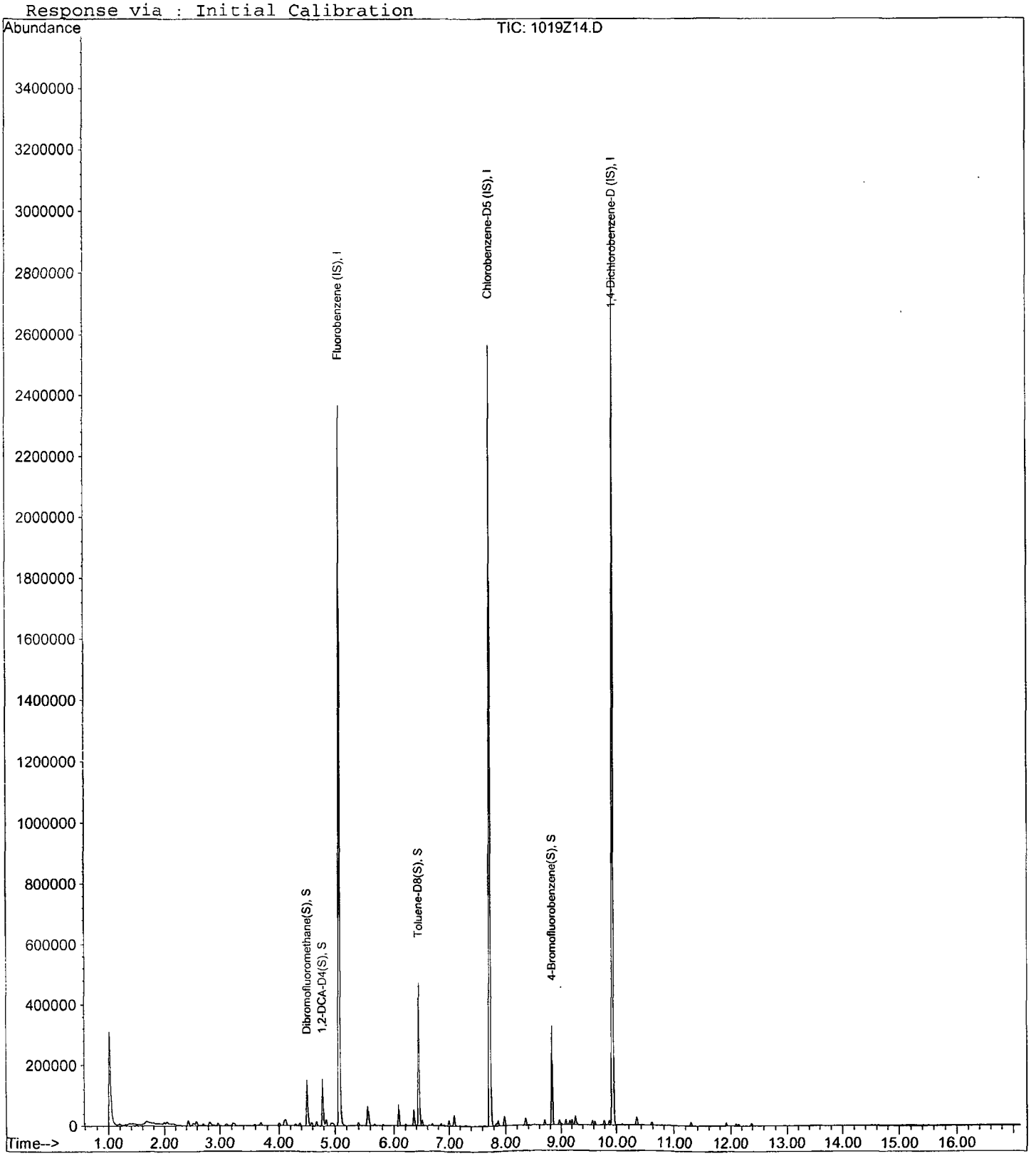
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z14.D
Acq On : 19 Oct 20 12:15
Sample : 0.3ug/L VOC STD 10/19/20
Misc :

Vial: 2
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z15.D Vial: 3
Acq On : 19 Oct 20 12:38 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1574092	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1152466	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	673478	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	70695	4.29	ppb	0.00
Spiked Amount 25.000			Recovery =	17.148%		
3) 1,2-DCA-D4(S)	4.78	65	75242	4.26	ppb	0.00
Spiked Amount 25.000			Recovery =	17.020%		
5) Toluene-D8(S)	6.44	98	239028	4.16	ppb	0.00
Spiked Amount 25.000			Recovery =	16.656%		
6) 4-Bromofluorobenzene(S)	8.83	95	82126	3.88	ppb	0.00
Spiked Amount 25.000			Recovery =	15.536%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

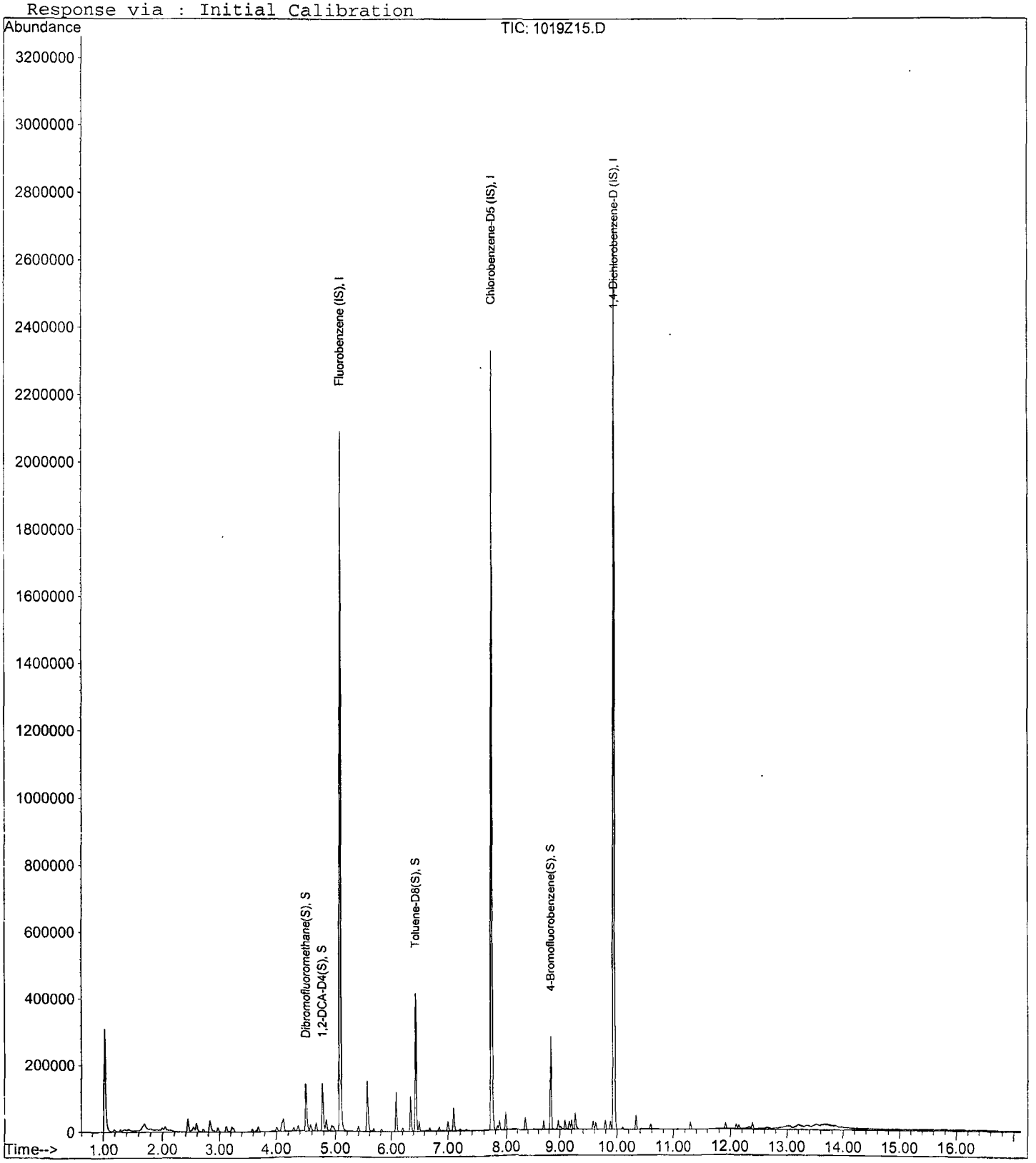
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z15.D
Acq On : 19 Oct 20 12:38
Sample : 0.5ug/L VOC STD 10/19/20
Misc :

Vial: 3
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z16.D Vial: 4
Acq On : 19 Oct 20 13:01 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1700604	25.00 ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1235774	25.00 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	713006	25.00 ppb	0.00
System Monitoring Compounds					
2) Dibromofluoromethane(S)	4.50	111	178957	10.04 ppb	0.00
Spiked Amount 25.000			Recovery =	40.176%	
3) 1,2-DCA-D4(S)	4.78	65	194179	10.16 ppb	0.00
Spiked Amount 25.000			Recovery =	40.660%	
5) Toluene-D8(S)	6.44	98	619561	10.06 ppb	0.00
Spiked Amount 25.000			Recovery =	40.260%	
6) 4-Bromofluorobenzene(S)	8.83	95	223756	9.87 ppb	0.00
Spiked Amount 25.000			Recovery =	39.472%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

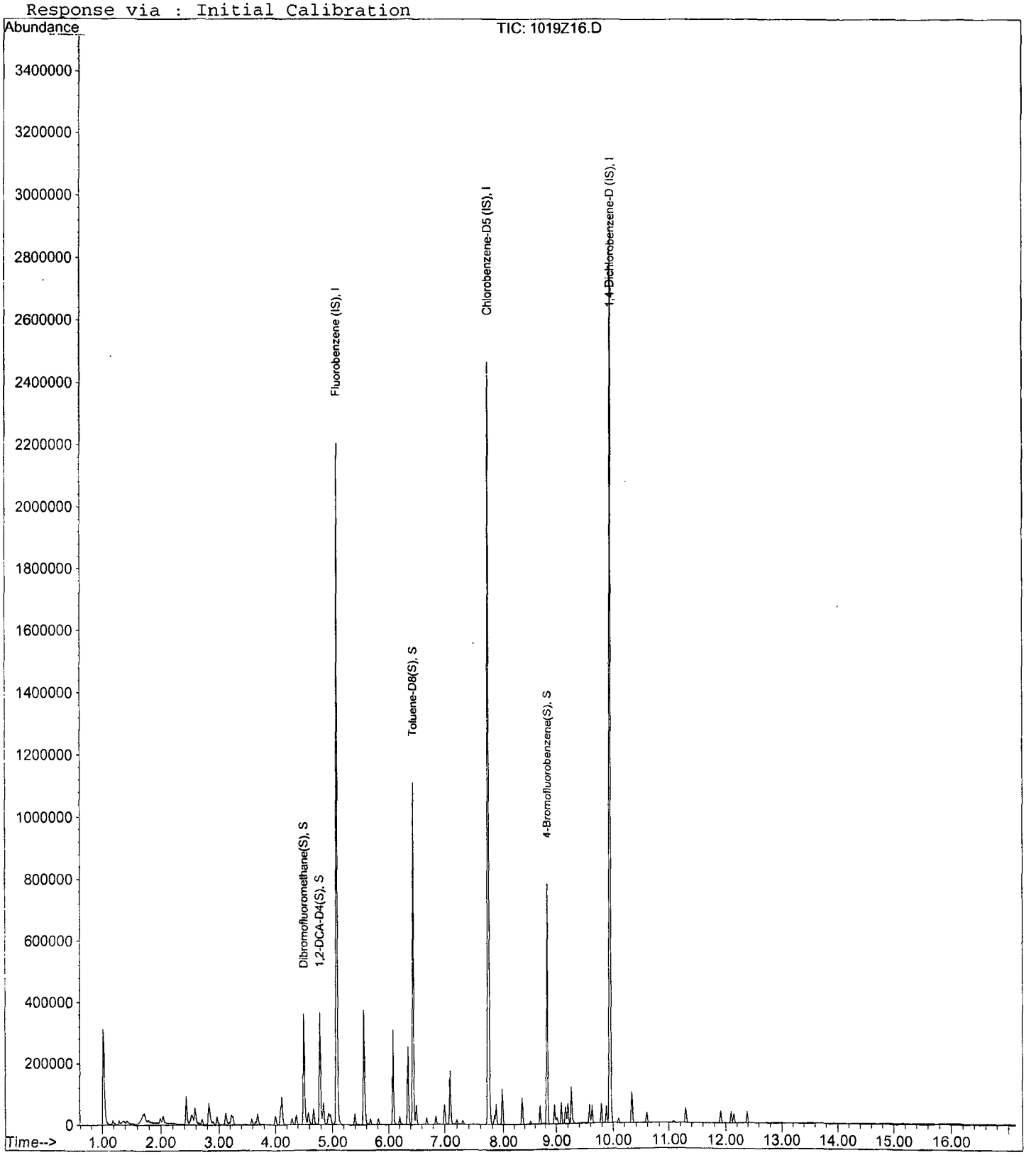
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z16.D
Acq On : 19 Oct 20 13:01
Sample : 1ug/L VOC STD 10/19/20
Misc :

Vial: 4
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z17.D Vial: 5
Acq On : 19 Oct 20 13:24 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1645562	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1190576	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	690799	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	172409	10.00	ppb	0.00
Spiked Amount 25.000			Recovery =	40.000%		
3) 1,2-DCA-D4(S)	4.78	65	186964	10.11	ppb	0.00
Spiked Amount 25.000			Recovery =	40.460%		
5) Toluene-D8(S)	6.44	98	601715	10.15	ppb	0.00
Spiked Amount 25.000			Recovery =	40.584%		
6) 4-Bromofluorobenzene(S)	8.83	95	215304	9.86	ppb	0.00
Spiked Amount 25.000			Recovery =	39.424%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

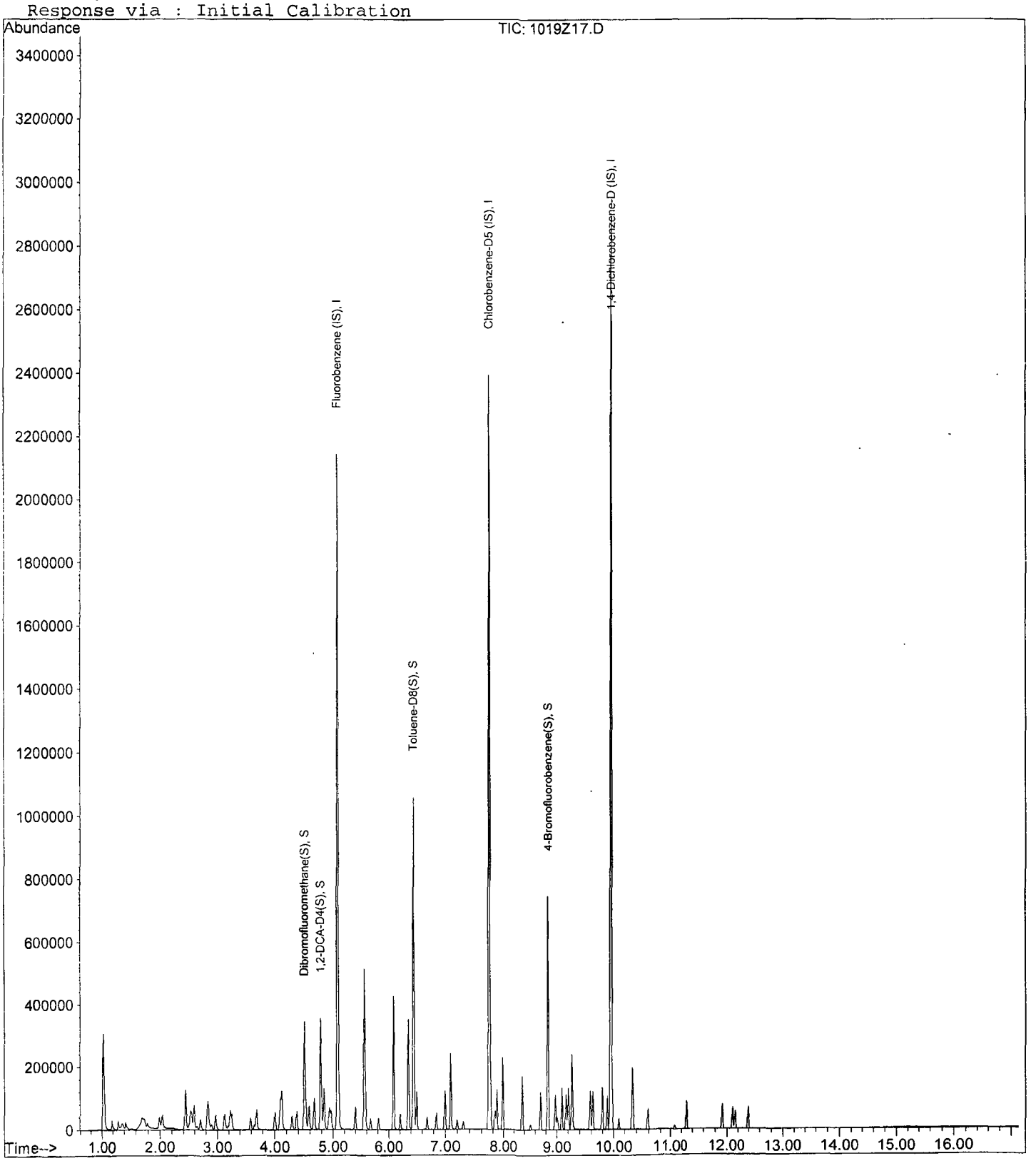
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z17.D
Acq On : 19 Oct 20 13:24
Sample : 2ug/L VOC STD 10/19/20
Misc :

Vial: 5
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z18.D Vial: 6
Acq On : 19 Oct 20 13:47 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1681779	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1209884	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	696850	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	481055	27.30	ppb	0.00
Spiked Amount 25.000			Recovery =	109.204%		
3) 1,2-DCA-D4(S)	4.78	65	513732	27.19	ppb	0.00
Spiked Amount 25.000			Recovery =	108.776%		
5) Toluene-D8(S)	6.44	98	1644045	27.28	ppb	0.00
Spiked Amount 25.000			Recovery =	109.116%		
6) 4-Bromofluorobenzene(S)	8.83	95	607357	27.36	ppb	0.00
Spiked Amount 25.000			Recovery =	109.436%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

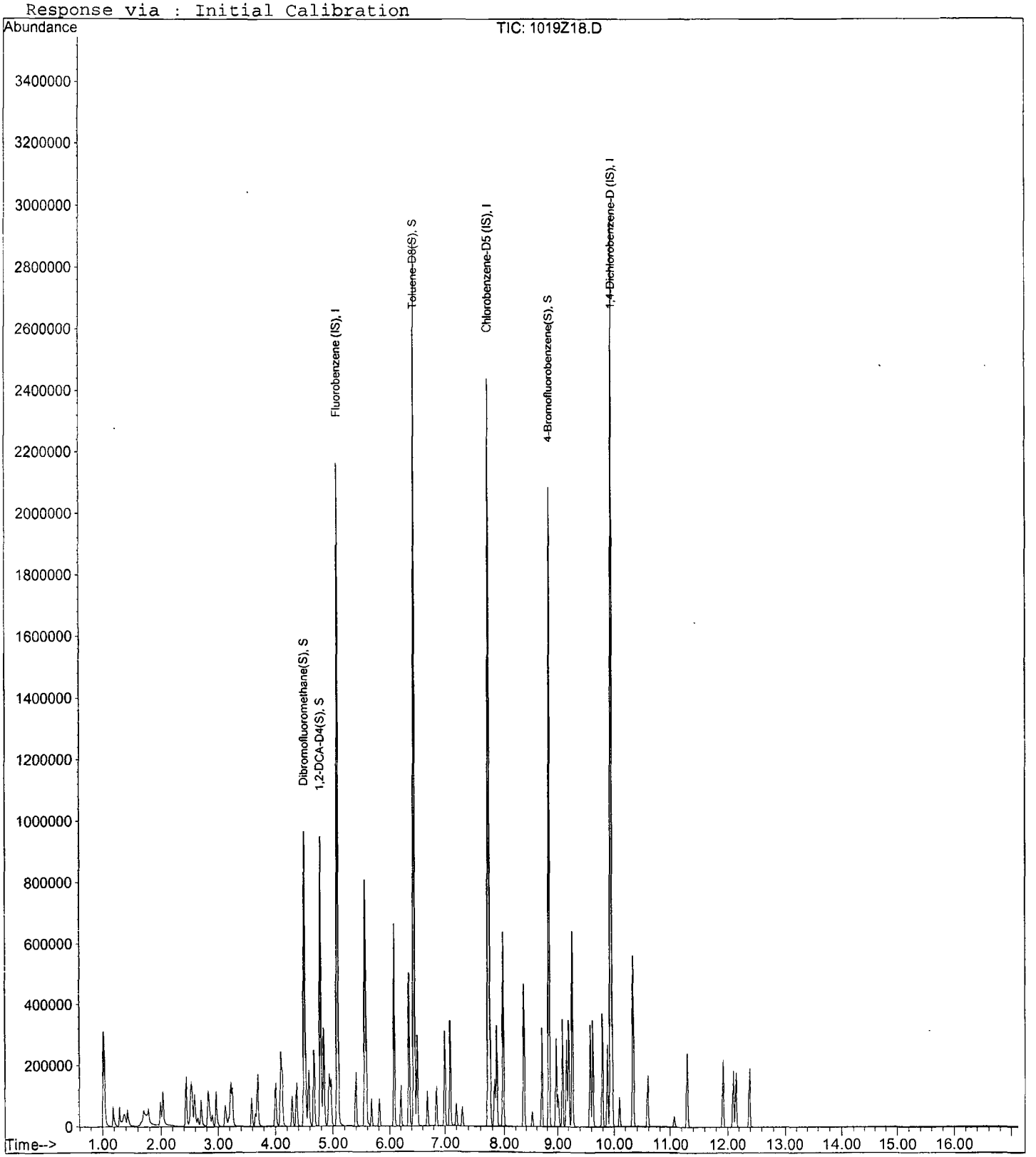
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z18.D
Acq On : 19 Oct 20 13:47
Sample : 5ug/L VOC STD 10/19/20
Misc :

Vial: 6
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z19.D Vial: 7
Acq On : 19 Oct 20 14:10 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1704623	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1224809	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	696598	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	489007	27.38	ppb	0.00
Spiked Amount 25.000			Recovery =	109.520%		
3) 1,2-DCA-D4(S)	4.78	65	521162	27.22	ppb	0.00
Spiked Amount 25.000			Recovery =	108.868%		
5) Toluene-D8(S)	6.44	98	1678029	27.50	ppb	0.00
Spiked Amount 25.000			Recovery =	110.012%		
6) 4-Bromofluorobenzene(S)	8.83	95	620632	27.62	ppb	0.00
Spiked Amount 25.000			Recovery =	110.464%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

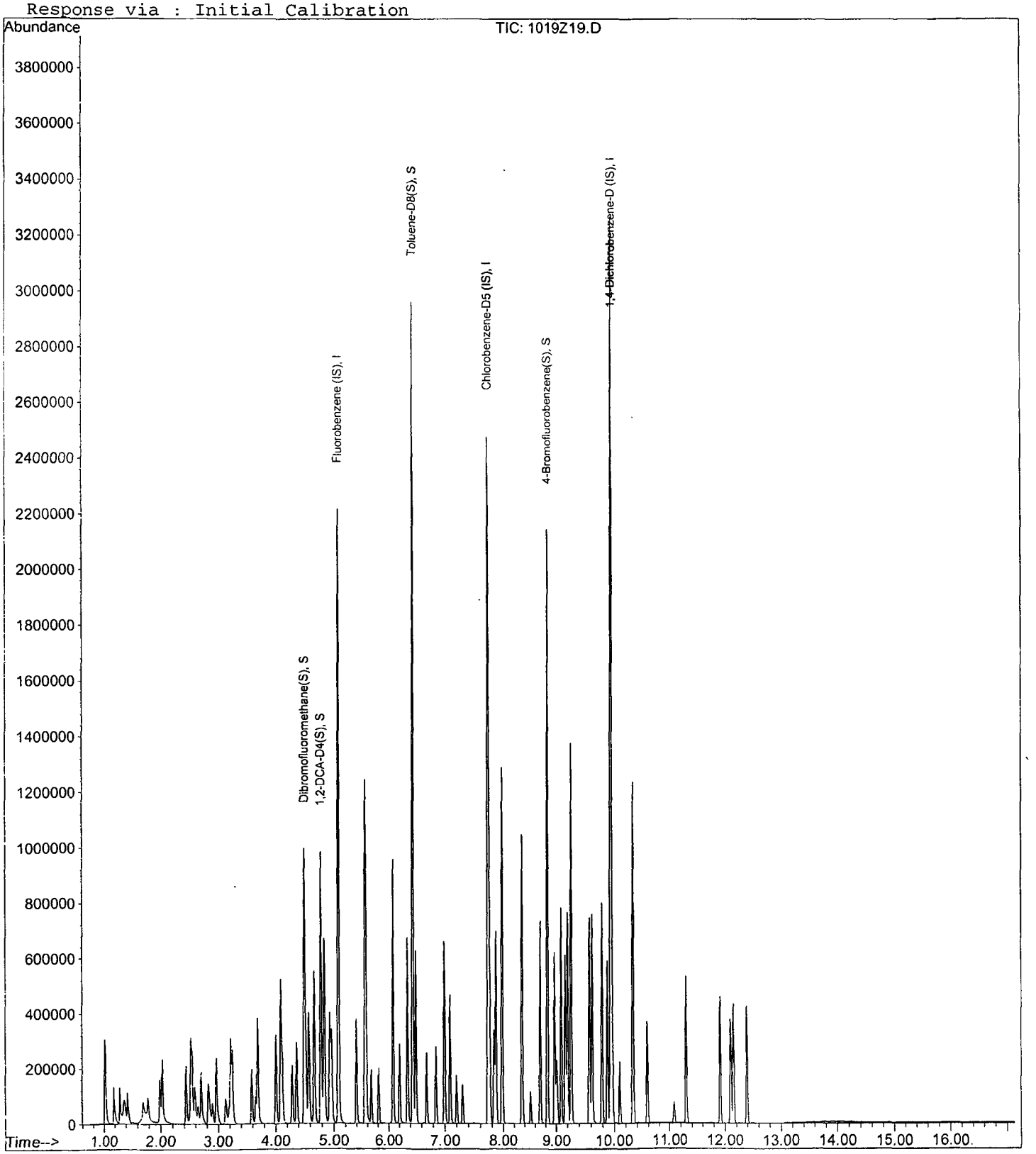
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z19.D
Acq On : 19 Oct 20 14:10
Sample : 10ug/L VOC STD 10/19/20
Misc :

Vial: 7
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z20.D Vial: 8
Acq On : 19 Oct 20 14:33 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1918105	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1381100	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	758629	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	1078826	53.68	ppb	0.00
Spiked Amount 25.000			Recovery =	214.728%		
3) 1,2-DCA-D4(S)	4.78	65	1141308	52.97	ppb	0.00
Spiked Amount 25.000			Recovery =	211.884%		
5) Toluene-D8(S)	6.44	98	3671502	53.37	ppb	0.00
Spiked Amount 25.000			Recovery =	213.468%		
6) 4-Bromofluorobenzene(S)	8.83	95	1385546	54.67	ppb	0.00
Spiked Amount 25.000			Recovery =	218.700%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

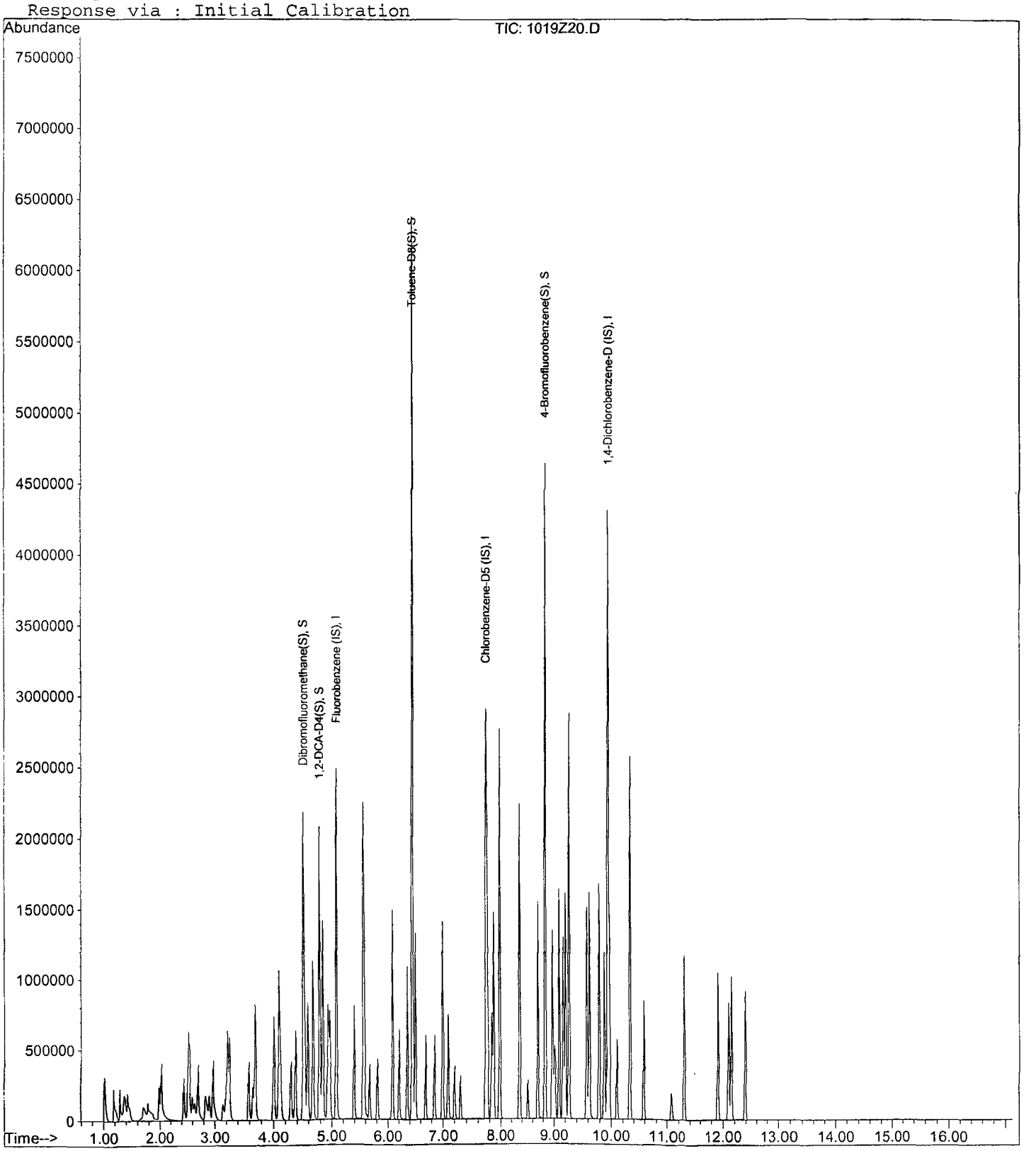
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z20.D
Acq On : 19 Oct 20 14:33
Sample : 20ug/L VOC STD 10/19/20
Misc :

Vial: 8
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z21.D Vial: 9
Acq On : 19 Oct 20 14:57 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1998622	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1434263	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	781045	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	1116412	53.31	ppb	0.00
Spiked Amount 25.000			Recovery =	213.260%		
3) 1,2-DCA-D4(S)	4.78	65	1191997	53.09	ppb	0.00
Spiked Amount 25.000			Recovery =	212.376%		
5) Toluene-D8(S)	6.44	98	3860156	54.03	ppb	0.00
Spiked Amount 25.000			Recovery =	216.116%		
6) 4-Bromofluorobenzene(S)	8.83	95	1461186	55.52	ppb	0.00
Spiked Amount 25.000			Recovery =	222.088%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

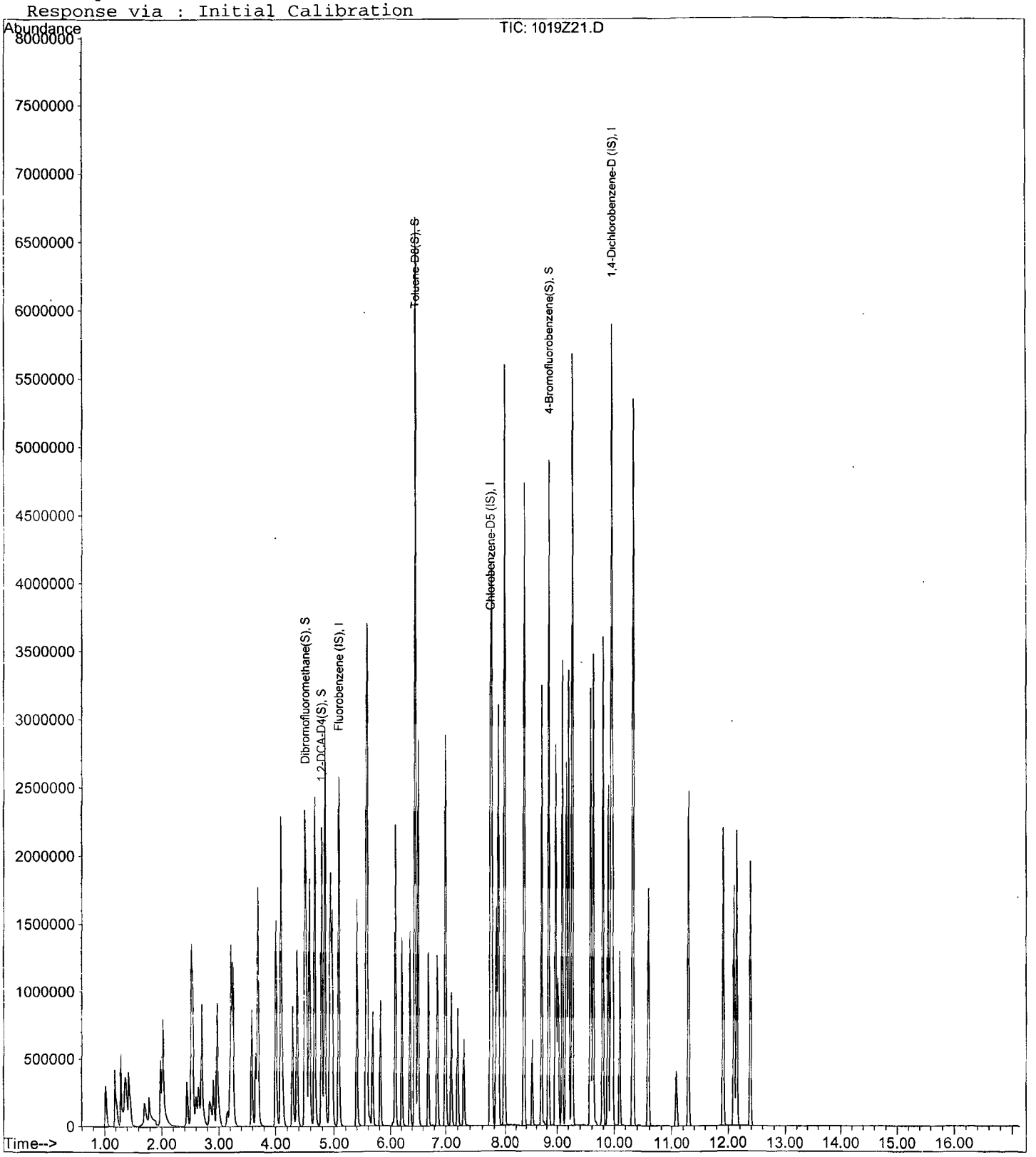
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z21.D
Acq On : 19 Oct 20 14:57
Sample : 40ug/L VOC STD 10/19/20
Misc :

Vial: 9
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z22.D Vial: 10
Acq On : 19 Oct 20 15:20 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2206006	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1547723	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	795829	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	2327779	100.71	ppb	0.00
Spiked Amount 25.000			Recovery =	402.852%		
3) 1,2-DCA-D4(S)	4.78	65	2459006	99.23	ppb	0.00
Spiked Amount 25.000			Recovery =	396.932%		
5) Toluene-D8(S)	6.44	98	7570877	98.20	ppb	0.00
Spiked Amount 25.000			Recovery =	392.796%		
6) 4-Bromofluorobenzene(S)	8.83	95	3038789	107.00	ppb	0.00
Spiked Amount 25.000			Recovery =	428.016%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

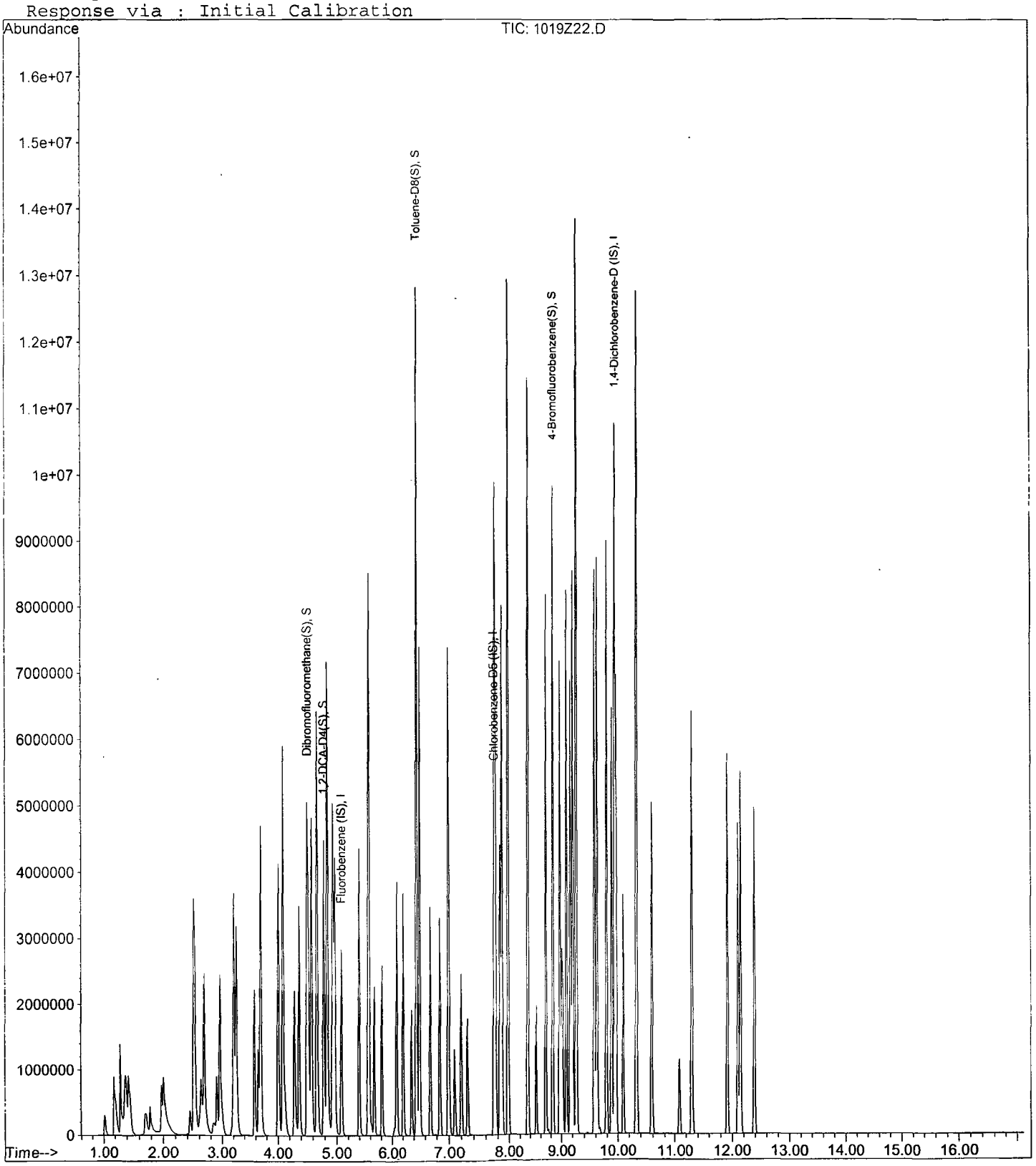
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z22.D
Acq On : 19 Oct 20 15:20
Sample : 100ug/L VOC STD 10/19/20
Misc :

Vial: 10
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:29 2020 Quant Results File: Z1019SUR.RES

Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/19/20
Instrument: ZEUS
Initial Cal. Date: 10/17/20
Data File: 1019Z27.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	2.686	1.038	61	TMHBL	3.0
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
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37							
38							
39							
40							
		Average			61.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/19/20
Instrument: ZEUS
Initial Cal. Date: 10/19/20
Data File: 1019Z27.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.2619	0.2788	6.4	S	
3	S	1,2-DCA-D4(S)	0.2808	0.2969	5.7	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	S	Toluene-D8(S)	1.245	1.340	7.6	S	
6	S	4-Bromofluorobenzene(S)	0.4587	0.4973	8.4	S	
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
8							
9							
10							
11							
12							
13							
14							
15							
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35							
36							
37							
38							
39							
40							
		Average			7.0		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z27.D Vial: 15
Acq On : 19 Oct 20 17:15 Operator: LP,DG,CH
Sample : 201019A CCV 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:34 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2698771	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	3274680	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	3274680	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	33621119m	309.08	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z27.D Vial: 15
Acq On : 19 Oct 20 17:15 Operator: LP,DG,CH
Sample : 201019A CCV 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 15:00 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	2017618	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1444874	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	817578	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	562506	26.61	ppb	0.00
Spiked Amount 25.000			Recovery = 106.440%			
3) 1,2-DCA-D4(S)	4.78	65	599001	26.43	ppb	0.00
Spiked Amount 25.000			Recovery = 105.720%			
5) Toluene-D8(S)	6.44	98	1936288	26.90	ppb	0.00
Spiked Amount 25.000			Recovery = 107.612%			
6) 4-Bromofluorobenzene(S)	8.83	95	718532	27.10	ppb	0.00
Spiked Amount 25.000			Recovery = 108.408%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

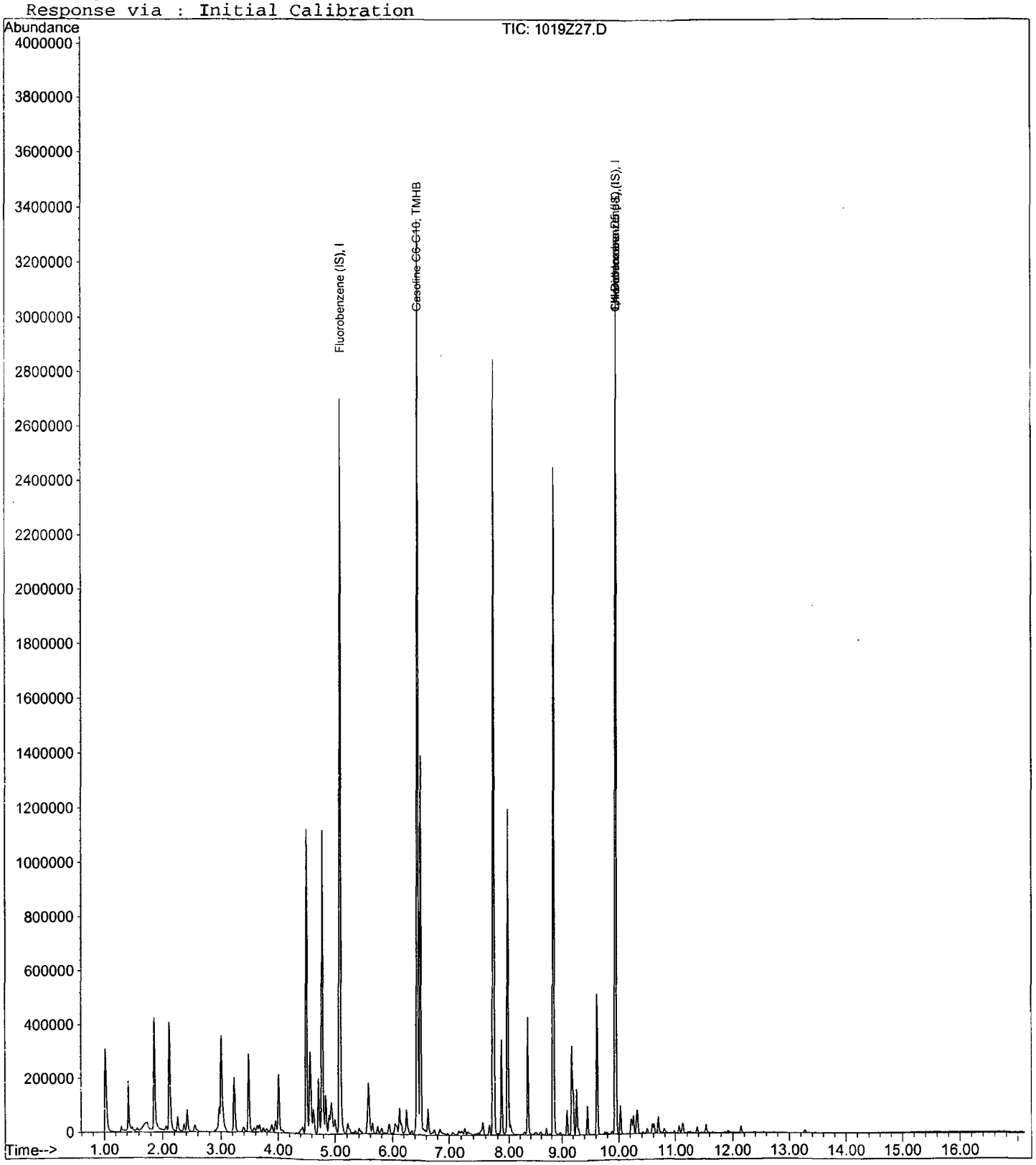
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z27.D
Acq On : 19 Oct 20 17:15
Sample : 201019A CCV 300ug/L
Misc :

Vial: 15
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:34 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/20/20
Instrument: ZEUS
Initial Cal. Date: 10/17/20
Data File: 1019Z56.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	2.686	1.029	62	TMHBL	1.0
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
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37							
38							
39							
40							
		Average			62.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/20/20
Instrument: ZEUS
Initial Cal. Date: 10/19/20
Data File: 1019Z56.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.2619	0.3006	15	S	
3	S	1,2-DCA-D4(S)	0.2808	0.3442	23	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	S	Toluene-D8(S)	1.245	1.362	9.4	S	
6	S	4-Bromofluorobenzene(S)	0.4587	0.5068	10	S	
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
8							
9							
10							
11							
12							
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14							
15							
16							
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37							
38							
39							
40							
		Average			14.4		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z56.D Vial: 44
Acq On : 20 Oct 20 04:28 Operator: LP,DG,CH
Sample : Ending CCV 300ug/L 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 20 7:37 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	1661876	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2110908	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2110908	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline C6-C10	6.44	TIC	20527028m	303.04 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z56.D Vial: 44
Acq On : 20 Oct 20 04:28 Operator: LP,DG,CH
Sample : Ending CCV 300ug/L 10/19/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 15:00 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1229237	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	891573	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	511389	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	369454	28.69	ppb	0.00
Spiked Amount 25.000			Recovery =	114.744%		
3) 1,2-DCA-D4(S)	4.78	65	423114	30.64	ppb	0.00
Spiked Amount 25.000			Recovery =	122.572%		
5) Toluene-D8(S)	6.44	98	1214257	27.34	ppb	0.00
Spiked Amount 25.000			Recovery =	109.364%		
6) 4-Bromofluorobenzene(S)	8.83	95	451864	27.62	ppb	0.00
Spiked Amount 25.000			Recovery =	110.484%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

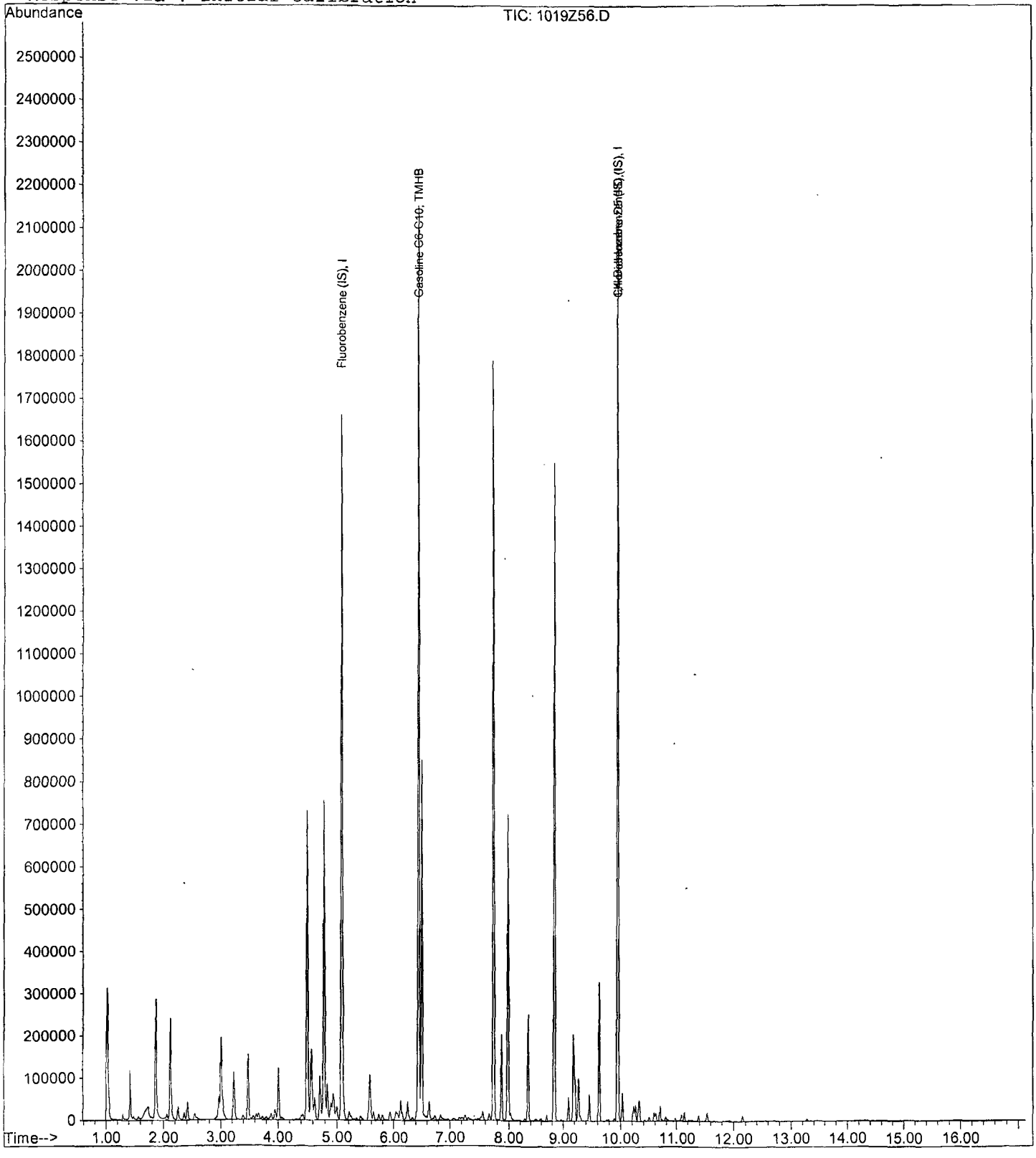
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z56.D
Acq On : 20 Oct 20 04:28
Sample : Ending CCV 300ug/L 10/19/20
Misc :

Vial: 44
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:37 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z38.D Vial: 26
Acq On : 19 Oct 20 21:30 Operator: LP,DG,CH
Sample : BA20267W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 14:05 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2135427	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2629565	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2629565	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z38.D Vial: 26
Acq On : 19 Oct 20 21:30 Operator: LP,DG,CH
Sample : BA20267W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 14:00 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1607899	25.00 ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1167624	25.00 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	655254	25.00 ppb	0.00
System Monitoring Compounds					
2) Dibromofluoromethane(S)	4.50	111	479110	28.44 ppb	0.00
Spiked Amount 25.000			Recovery =	113.760%	
3) 1,2-DCA-D4(S)	4.78	65	526689	29.16 ppb	0.00
Spiked Amount 25.000			Recovery =	116.644%	
5) Toluene-D8(S)	6.45	98	1570725	27.01 ppb	0.00
Spiked Amount 25.000			Recovery =	108.020%	
6) 4-Bromofluorobenzene(S)	8.83	95	586528	27.38 ppb	0.00
Spiked Amount 25.000			Recovery =	109.504%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

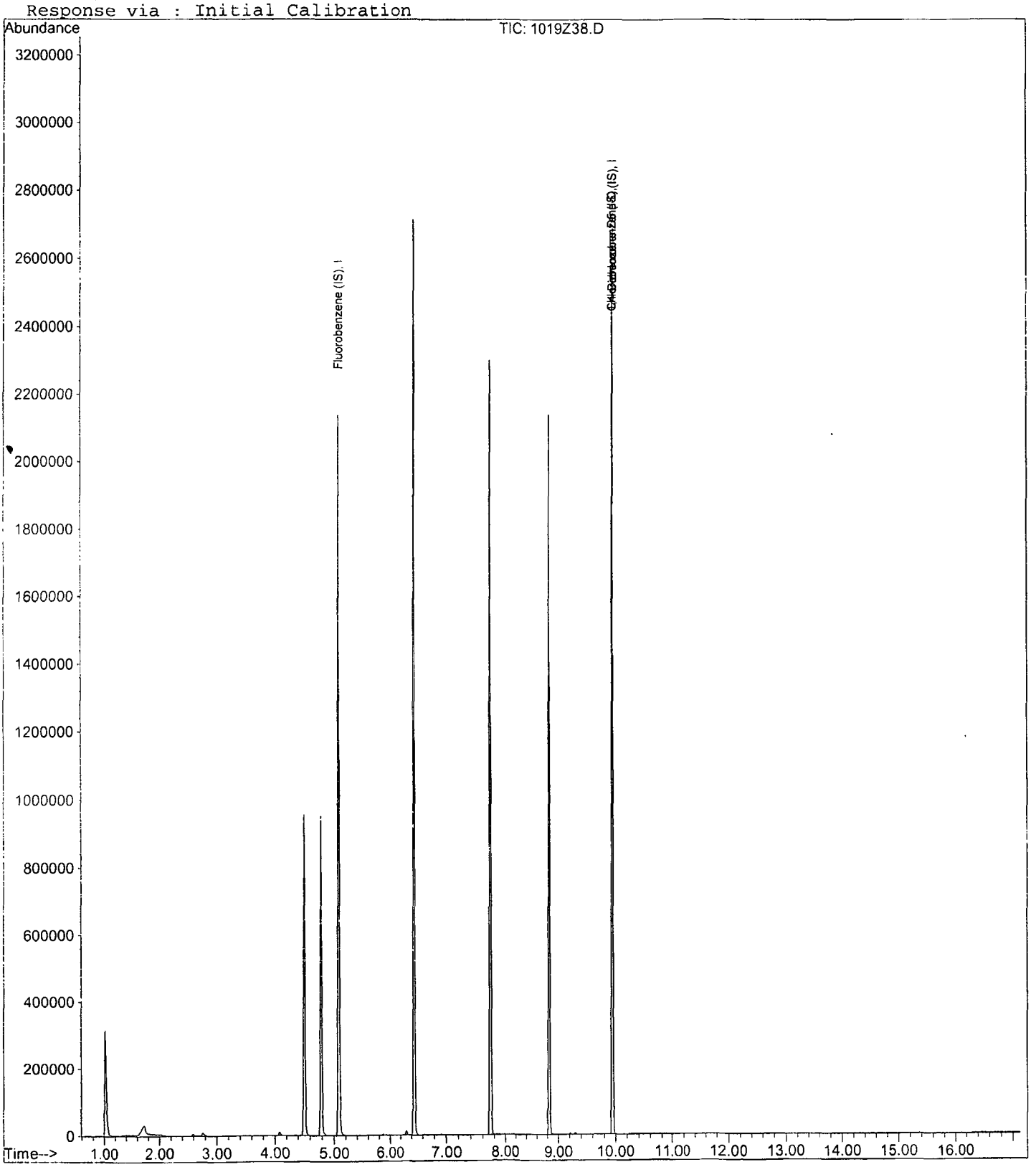
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z38.D
Acq On : 19 Oct 20 21:30
Sample : BA20267W01
Misc :

Vial: 26
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 21 14:05 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z39.D
Acq On : 19 Oct 20 21:54
Sample : BA20268W01
Misc :

Vial: 27
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 21 14:05 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	1969468	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2566265	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2566265	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z39.D Vial: 27
Acq On : 19 Oct 20 21:54 Operator: LP,DG,CH
Sample : BA20268W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 14:00 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1518013	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1095583	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	629543	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	456039	28.67	ppb	0.00
Spiked Amount 25.000			Recovery = 114.692%			
3) 1,2-DCA-D4(S)	4.78	65	513980	30.14	ppb	0.00
Spiked Amount 25.000			Recovery = 120.568%			
5) Toluene-D8(S)	6.44	98	1467305	26.89	ppb	0.00
Spiked Amount 25.000			Recovery = 107.544%			
6) 4-Bromofluorobenzene(S)	8.83	95	551998	27.46	ppb	0.00
Spiked Amount 25.000			Recovery = 109.836%			

Target Compounds Qvalue

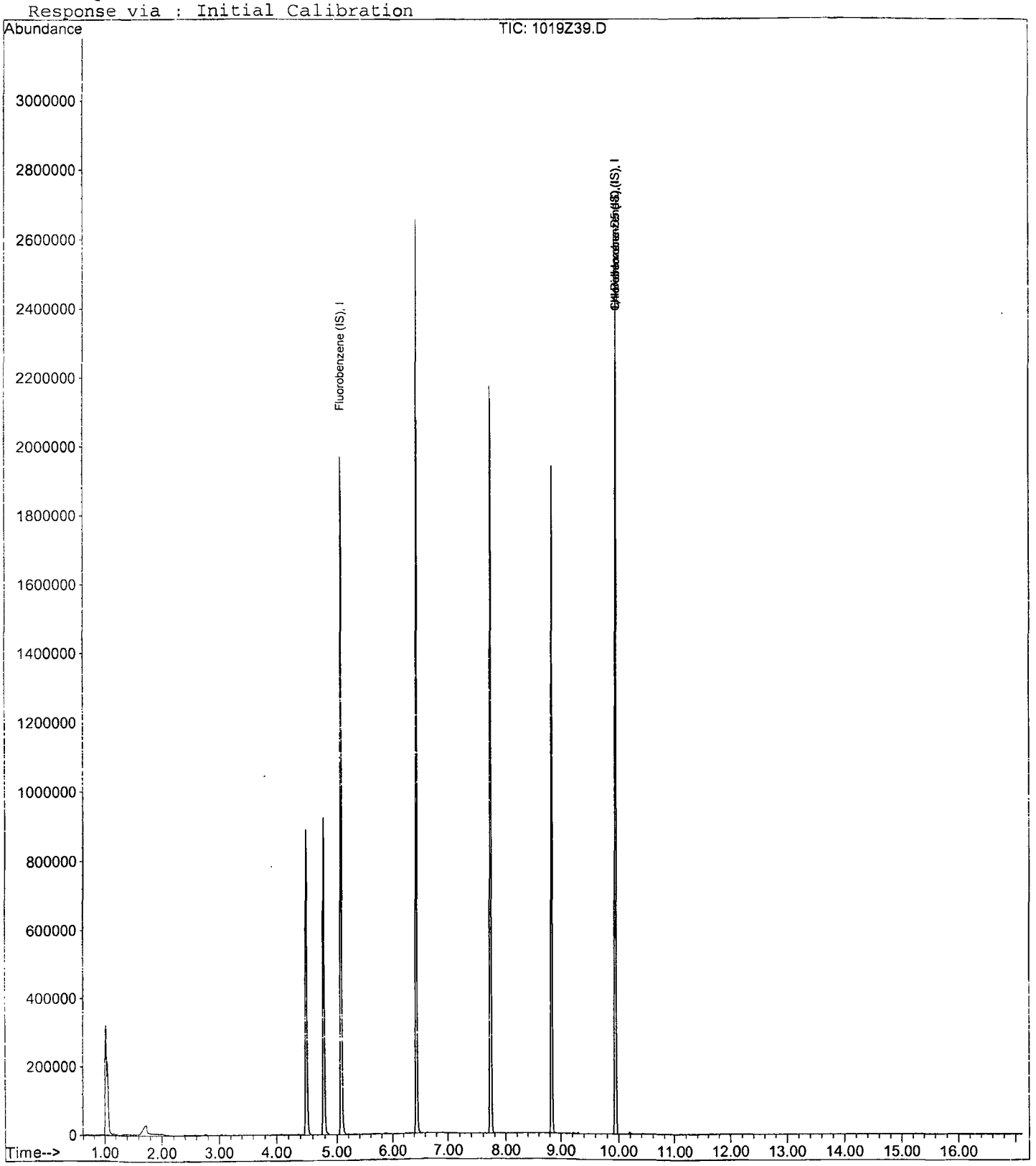
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z39.D Vial: 27
Acq On : 19 Oct 20 21:54 Operator: LP,DG,CH
Sample : BA20268W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 14:05 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201016\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z30.D
Acq On : 19 Oct 20 18:25
Sample : 201019A BLK
Misc :

Vial: 18
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:36 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2441709	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	2961028	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	2961028	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z30.D Vial: 18
Acq On : 19 Oct 20 18:25 Operator: LP,DG,CH
Sample : 201019A BLK Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 15:00 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1868771	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1341533	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	759355	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	533483	27.25	ppb	0.00
Spiked Amount 25.000			Recovery =	108.988%		
3) 1,2-DCA-D4(S)	4.78	65	575227	27.40	ppb	0.00
Spiked Amount 25.000			Recovery =	109.608%		
5) Toluene-D8(S)	6.44	98	1799771	26.93	ppb	0.00
Spiked Amount 25.000			Recovery =	107.728%		
6) 4-Bromofluorobenzene(S)	8.83	95	669768	27.21	ppb	0.00
Spiked Amount 25.000			Recovery =	108.836%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

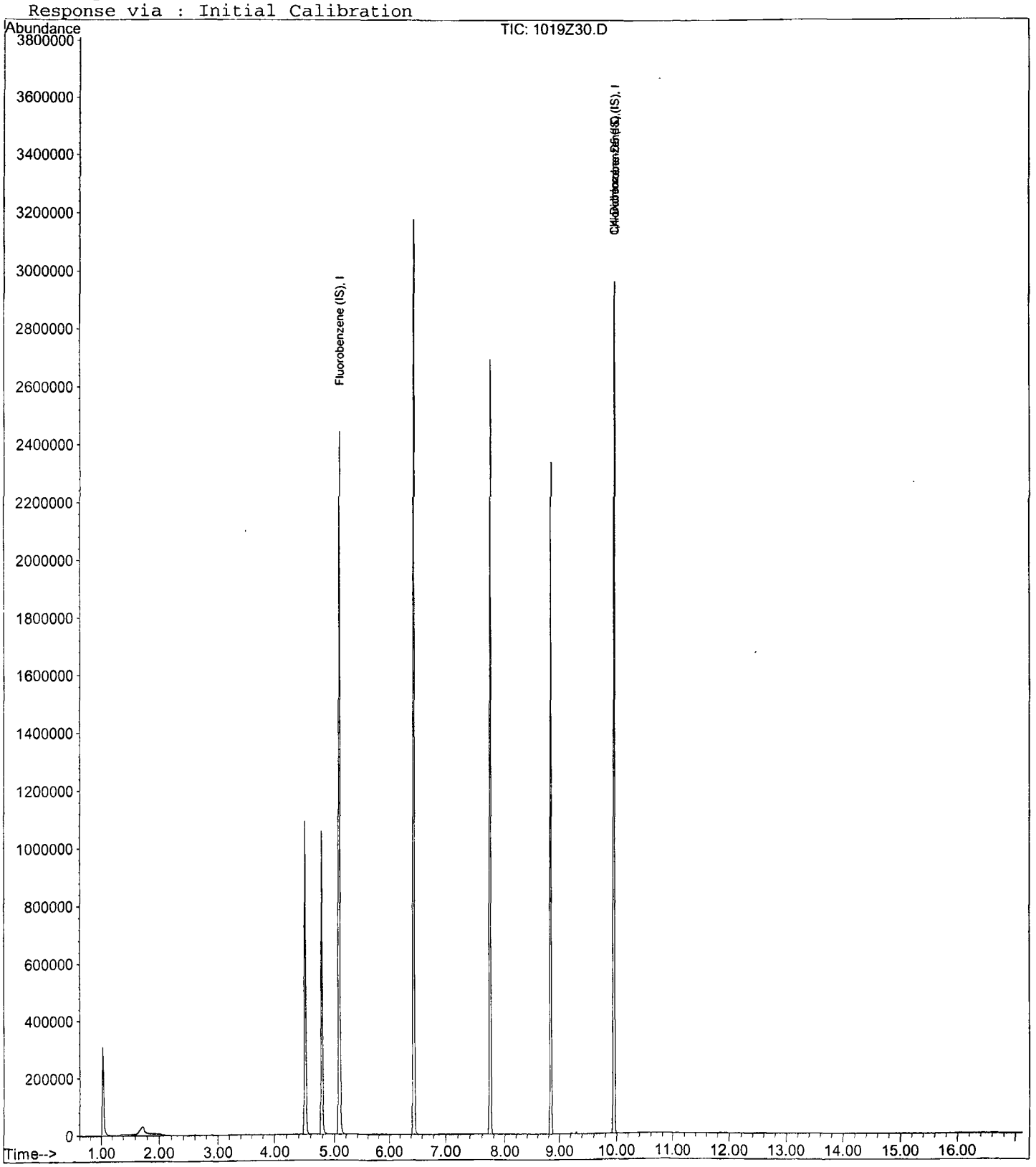
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z30.D
Acq On : 19 Oct 20 18:25
Sample : 201019A BLK
Misc :

Vial: 18
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:36 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z28.D
Acq On : 19 Oct 20 17:39
Sample : 201019A LCS 300ug/L
Misc :

Vial: 16
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:35 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2639689	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	3115984	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	3115984	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	32629757m	303.58	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z28.D Vial: 16
Acq On : 19 Oct 20 17:39 Operator: LP,DG,CH
Sample : 201019A LCS 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 15:00 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1977356	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1410008	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	802156	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	553276	26.71	ppb	0.00
Spiked Amount 25.000			Recovery =	106.824%		
3) 1,2-DCA-D4(S)	4.78	65	597335	26.89	ppb	0.00
Spiked Amount 25.000			Recovery =	107.572%		
5) Toluene-D8(S)	6.44	98	1923476	27.39	ppb	0.00
Spiked Amount 25.000			Recovery =	109.540%		
6) 4-Bromofluorobenzene(S)	8.83	95	706887	27.32	ppb	0.00
Spiked Amount 25.000			Recovery =	109.292%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

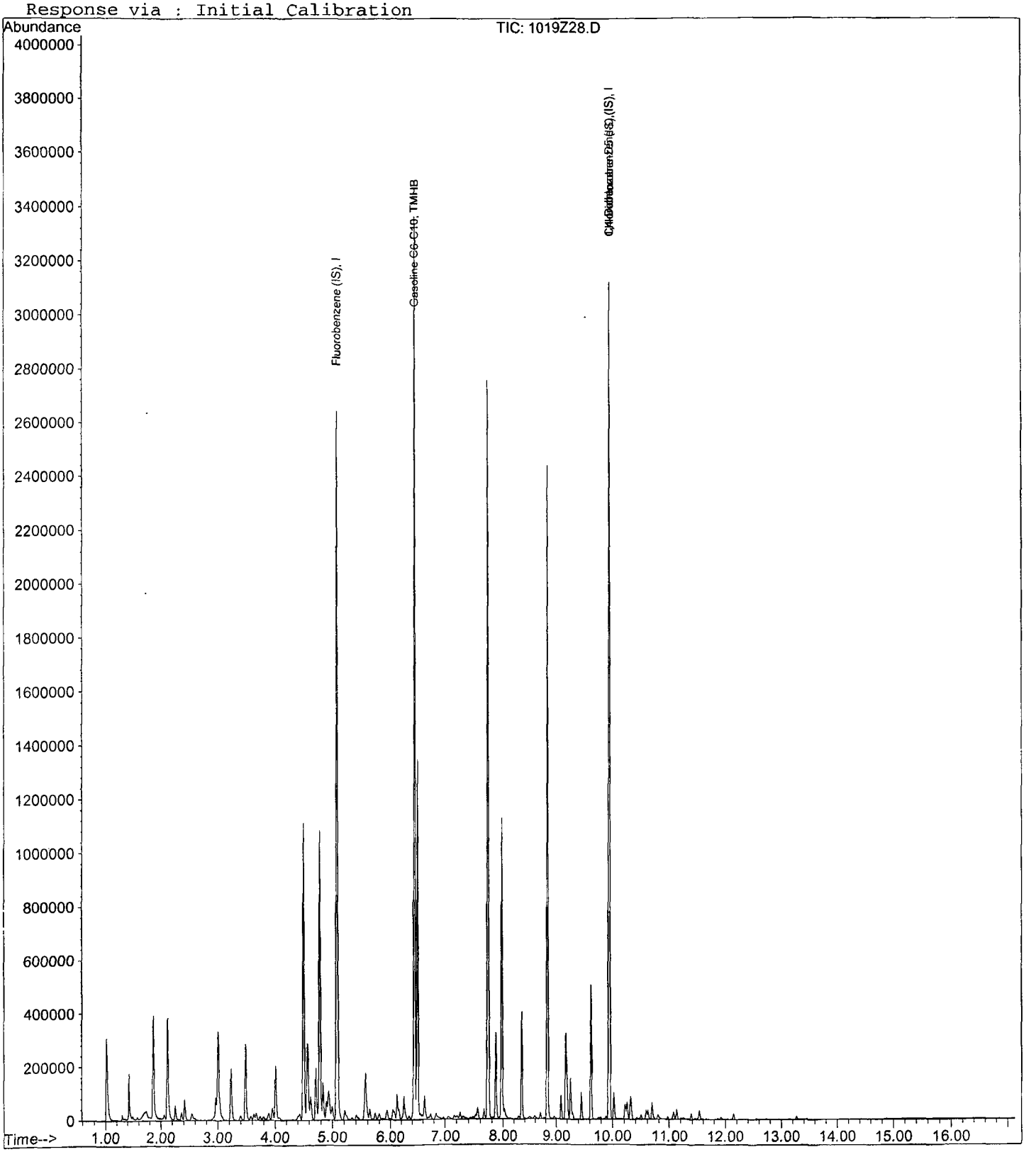
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z28.D
Acq On : 19 Oct 20 17:39
Sample : 201019A LCS 300ug/L
Misc :

Vial: 16
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:35 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z29.D
Acq On : 19 Oct 20 18:02
Sample : 201019A LCSD 300ug/L
Misc :

Vial: 17
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:36 2020 Quant Results File: ZGAS1017.RES

Quant Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	TIC	2468780	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.95	TIC	3042775	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.95	TIC	3042775	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	31341604m	322.57	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201019\1019Z29.D Vial: 17
Acq On : 19 Oct 20 18:02 Operator: LP,DG,CH
Sample : 201019A LCSD 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 21 15:00 2020 Quant Results File: Z1019SUR.RES

Quant Method : M:\ZEUS\DATA\201019\Z1019SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 20 06:57:37 2020
Response via : Initial Calibration
DataAcq Meth : 101620_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.08	96	1892096	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.73	117	1354091	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.95	152	770992	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	533998	26.94	ppb	0.00
Spiked Amount 25.000			Recovery =	107.748%		
3) 1,2-DCA-D4(S)	4.78	65	573986	27.01	ppb	0.00
Spiked Amount 25.000			Recovery =	108.024%		
5) Toluene-D8(S)	6.44	98	1855319	27.51	ppb	0.00
Spiked Amount 25.000			Recovery =	110.024%		
6) 4-Bromofluorobenzene(S)	8.83	95	683977	27.53	ppb	0.00
Spiked Amount 25.000			Recovery =	110.116%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

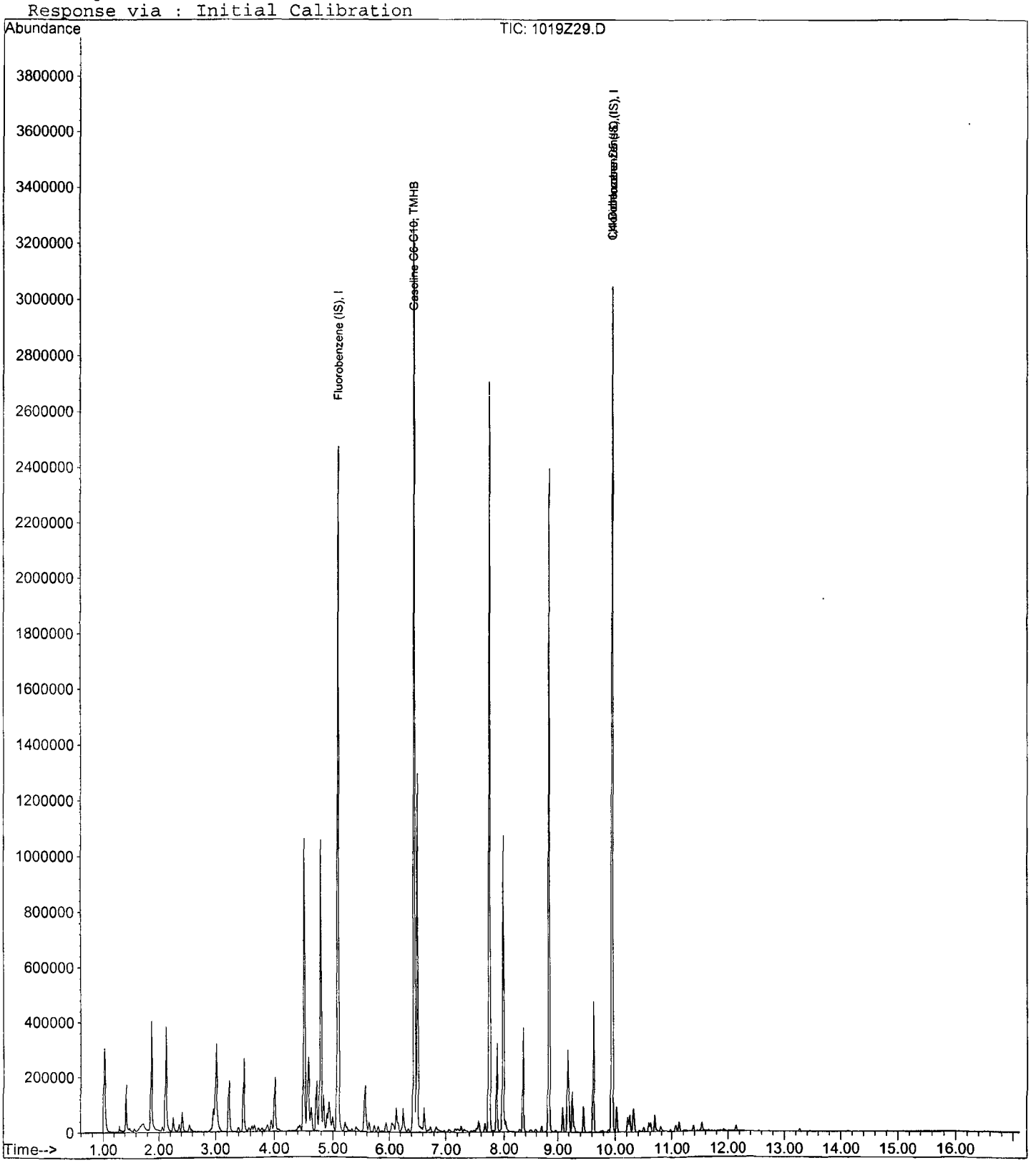
Quantitation Report

Data File : M:\ZEUS\DATA\201019\1019Z29.D
Acq On : 19 Oct 20 18:02
Sample : 201019A LCSD 300ug/L
Misc :

Vial: 17
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 20 7:36 2020 Quant Results File: ZGAS1017.RES

Method : M:\ZEUS\DATA\201019\ZGAS1017.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 19 08:44:17 2020
Response via : Initial Calibration



Zeus Gas Standard Prep

Gas Primary Working Standard

Prepared: 08/20/20
Expires: 01/06/21
Methanol Lot No. 58019-00962

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	01/06/21	12/31/24	80uL	2mL	Methanol	2,000

Gas Second Source (SS) Working Standard

Prepared: 08/20/20
Expires: 10/13/20
Methanol Lot No. 58019-00962

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (50,000ppm)	Phenova	ALO-101543	50,000	CL11750-40998	10/13/20	02/28/27	800uL	2mL	Methanol	2,000

Zeus Gas Calibration Curve

Prepared: 10/17/20
Expires: 12/16/20

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA Gasses Standards	Phenova	20ug/L	2,000	Prepared 08/20/20	01/06/21	N/A	1uL	100mL	P&T Water	20
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 08/20/20	01/06/21	N/A	2.5uL	100mL	P&T Water	50
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 08/20/20	01/06/21	N/A	5uL	100mL	P&T Water	100
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 08/20/20	01/06/21	N/A	15uL	100mL	P&T Water	300
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 08/20/20	01/06/21	N/A	30uL	100mL	P&T Water	600
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 08/20/20	01/06/21	N/A	40uL	100mL	P&T Water	800
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 08/20/20	01/06/21	N/A	50uL	100mL	P&T Water	1,000

Zeus Gas Second Source

Prepared: 10/17/20
Expires: 12/16/20

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
50,000ug/mL Gas STD	Phenova	SS 300ug/L	2,000	Prepared 08/20/20	10/13/20	N/A	15uL	100mL	P&T Water	300

Zeus Gas Continuing Calibrations/Lab Control Spikes

Prepared: 10/17/20
Expires: 10/18/20

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 08/20/20	01/06/21	N/A	15uL	100mL	P&T Water	300

Injection Log

Directory: M:\ZEUS\DATA\201016\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	1017Z04.D	1	20ug/L GAS STD 10/16/20		17 Oct 20 11:16
2	4	1017Z05.D	1	50ug/L GAS STD 10/16/20		17 Oct 20 11:39
3	5	1017Z06.D	1	100ug/L GAS STD 10/16/20		17 Oct 20 12:02
4	6	1017Z07.D	1	300ug/L GAS STD 10/16/20		17 Oct 20 12:25
5	7	1017Z08.D	1	600ug/L GAS STD 10/16/20		17 Oct 20 12:48
6	8	1017Z09.D	1	800ug/L GAS STD 10/16/20		17 Oct 20 13:11
7	9	1017Z10.D	1	1000ug/L GAS STD 10/16/20		17 Oct 20 13:35
8	10	1017Z11.D	1	(SS) 300ug/L GAS STD 10/16/20		17 Oct 20 13:58
9	15	1019Z27.D	1	201019A CCV 300ug/L		19 Oct 20 17:15
10	16	1019Z28.D	1	201019A LCS 300ug/L		19 Oct 20 17:39
11	17	1019Z29.D	1	201019A LCSD 300ug/L		19 Oct 20 18:02
12	18	1019Z30.D	1	201019A BLK		19 Oct 20 18:25
13	26	1019Z38.D	1	BA20267W01		19 Oct 20 21:30
14	27	1019Z39.D	1	BA20268W01		19 Oct 20 21:54
15	44	1019Z56.D	1	Ending CCV 300ug/L 10/19/20		20 Oct 20 04:28

ORGANICS

Calibration Data

RSK 175
RSK 175

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 09/14/20
Matrix: Instrument: 7890

Initials: CD

			0914R07.D	0914R08.D	0914R09.D	0914R10.D	0914R11.D	0914R12.D	0914R13.D								
		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q
1	ATML	Methane	31176	26056	25996	23232	23337	25358	24640				25685	10	ATM	1.000	
2	ATML	Ethane	21362	19532	19181	17082	17815	18853	18215				18863	7.3	ATM	1.000	
3	ATML	Ethene	16420	15064	15131	13510	13711	15061	14685				14797	6.6	ATM	1.000	
4																	
5																	
6																	
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0.696467

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R07.D Vial: 1
Acq On : 14 Sep 20 12:06 Operator: CD
Sample : RSK STD1 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

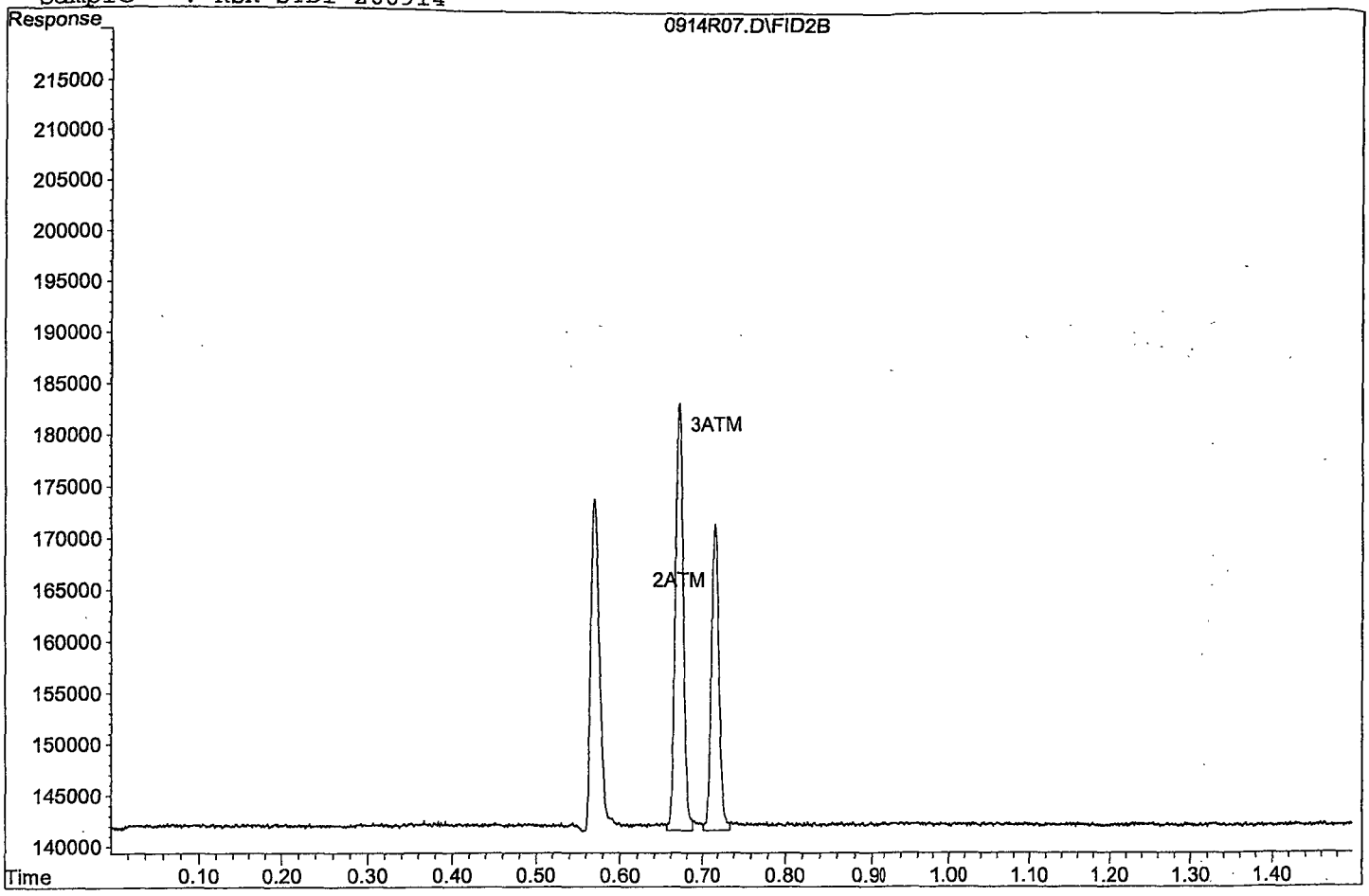
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	41762	102628.492	ppb
3) ATM Ethene	0.72	29966	4.139	ppb
Target Compounds				
1) ATM Methane	0.57	32423	N.D.	ppb

Quantitation Report

Data File: G:\ROCKY\DATA\200914RS\0914R07.D
Sample : RSK STD1 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R08.D Vial: 1
Acq On : 14 Sep 20 12:10 Operator: CD
Sample : RSK STD2 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

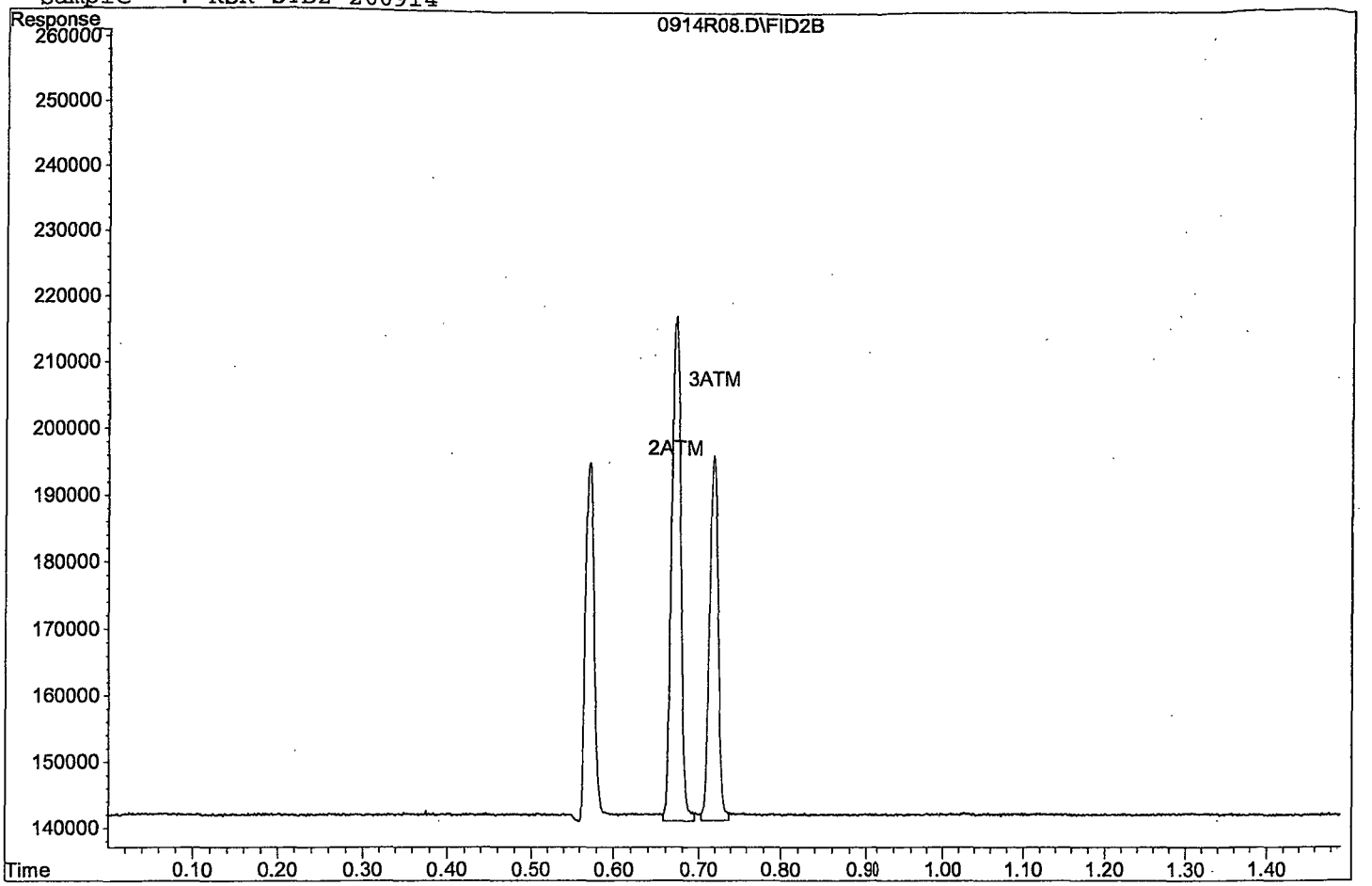
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
2) ATM Ethane	0.67	76271	190289.144 ppb
3) ATM Ethene	0.72	54983	7.686 ppb
Target Compounds			
1) ATM Methane	0.57	54196	N.D. ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R08.D
Sample : RSK STD2 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R09.D Vial: 1
Acq On : 14 Sep 20 12:13 Operator: CD
Sample : RSK STD3 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

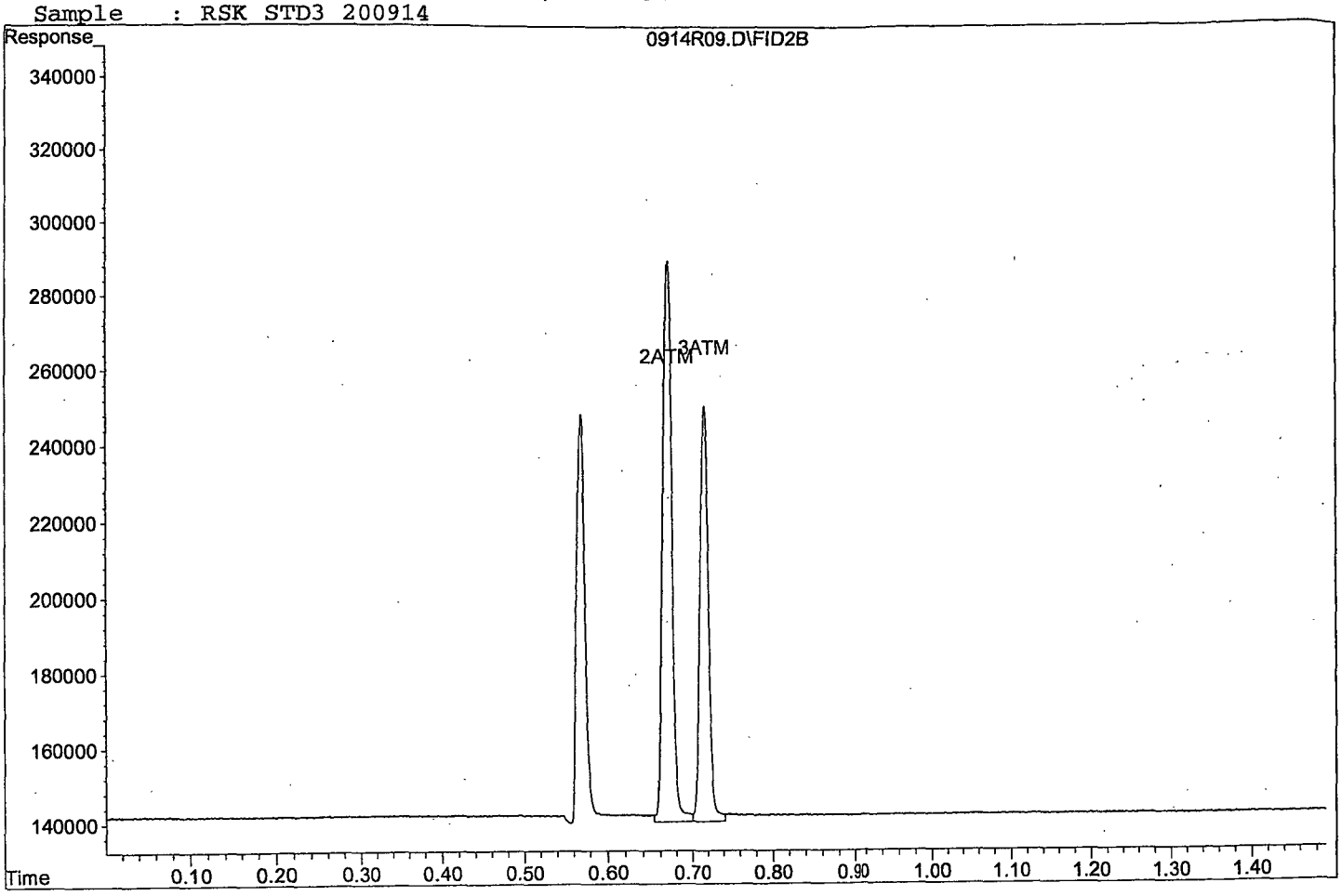
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	149612	376595.524	ppb
3) ATM Ethene	0.72	110455	15.551	ppb
Target Compounds				
1) ATM Methane	0.57	108403	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R09.D
Sample : RSK STD3 200914



Quantitation Report (Not Reviewed)

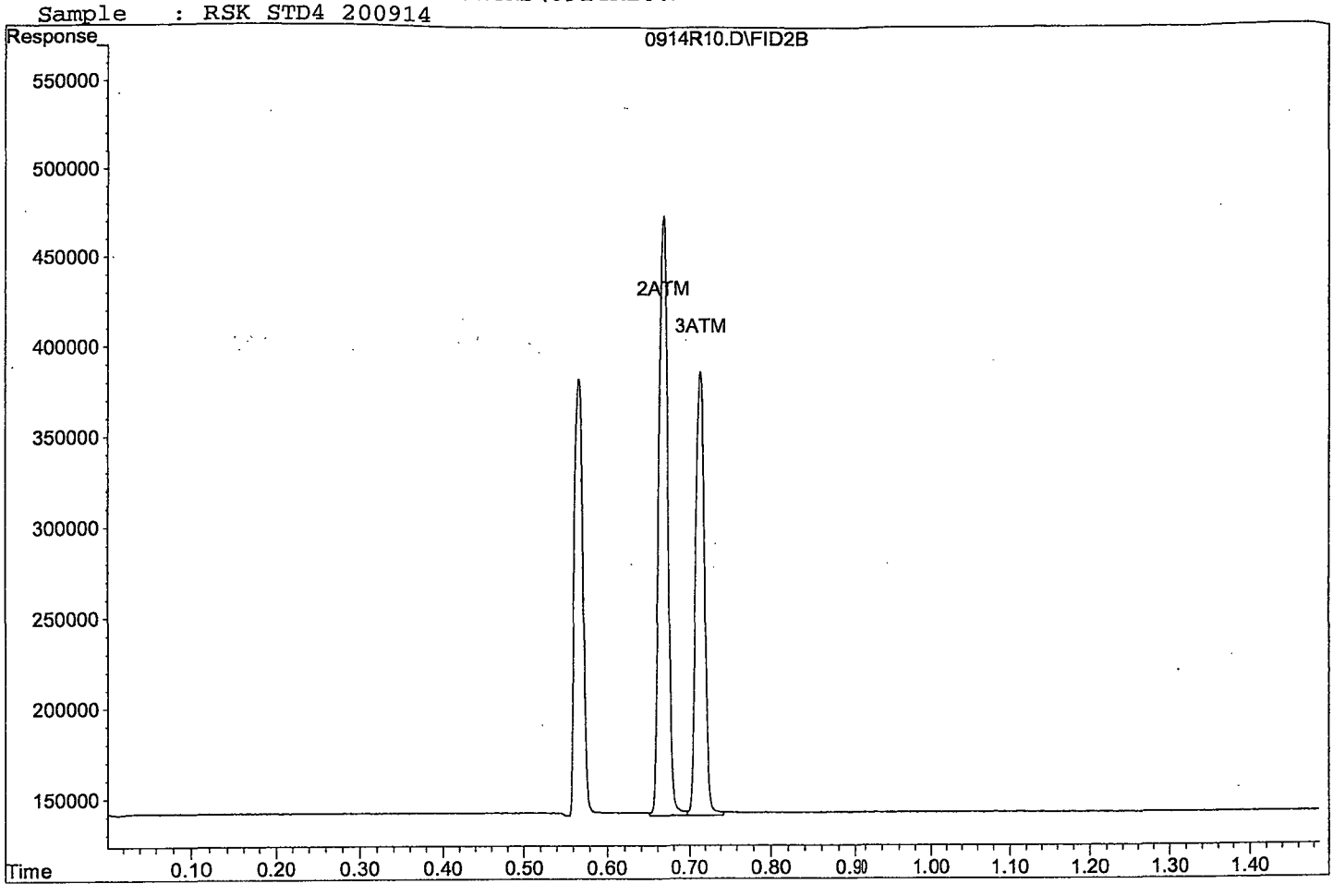
Data File : G:\ROCKY\DATA\200914RS\0914R10.D Vial: 1
Acq On : 14 Sep 20 12:18 Operator: CD
Sample : RSK STD4 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	333873	844667.853	ppb
3) ATM Ethene	0.71	246286	34.810	ppb
Target Compounds				
1) ATM Methane	0.57	242197	N.D.	ppb

Data File: G:\ROCKY\DATA\200914RS\0914R10.D
Sample : RSK STD4 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R11.D Vial: 1
Acq On : 14 Sep 20 12:21 Operator: CD
Sample : RSK STD5 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

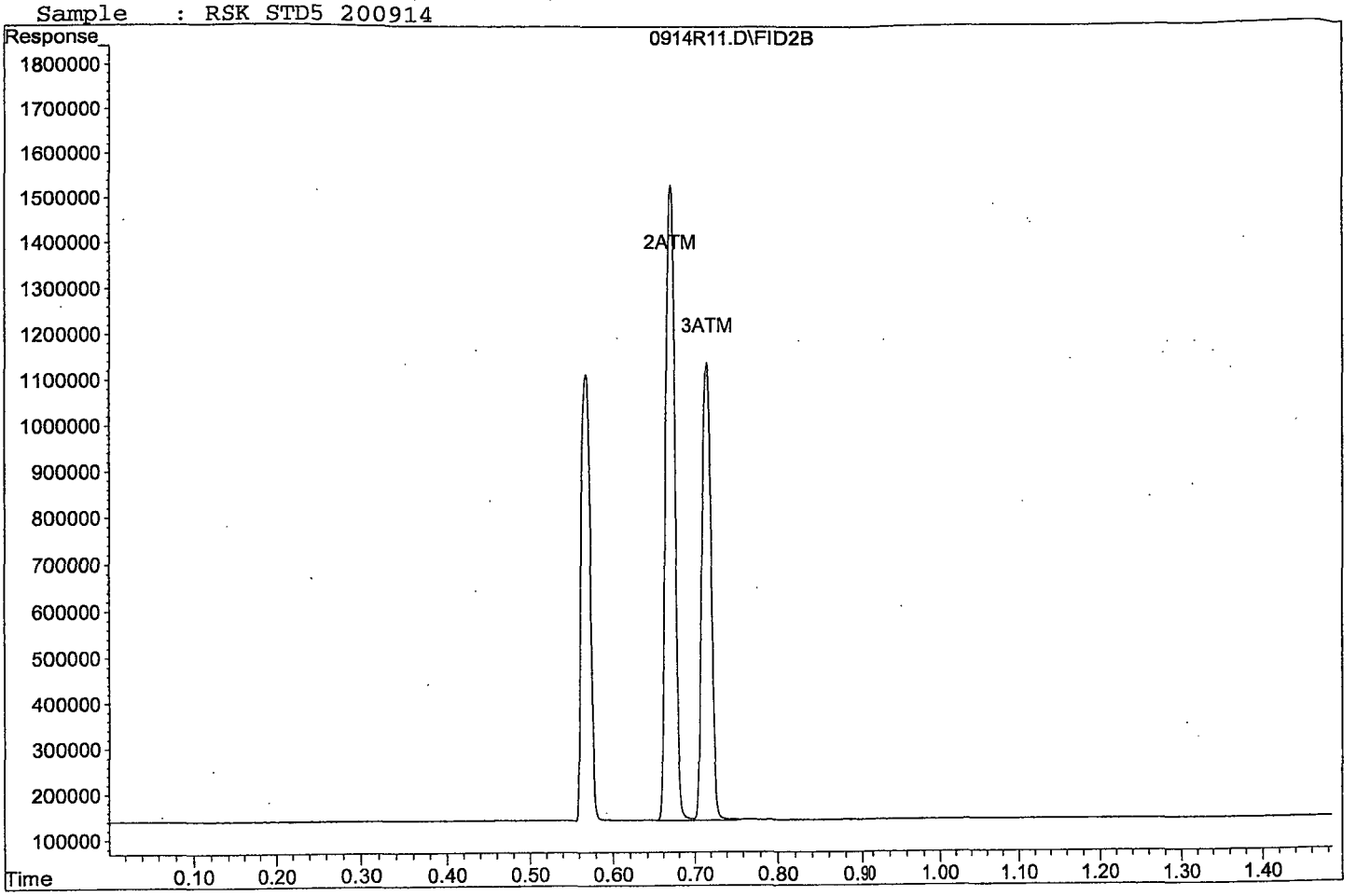
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
2) ATM Ethane	0.67	1392673	3534302.847 ppb
3) ATM Ethene	0.71	999836	141.654 ppb
Target Compounds			
1) ATM Methane	0.57	973152	N.D. ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R11.D
Sample : RSK STD5 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R12.D Vial: 1
Acq On : 14 Sep 20 12:25 Operator: CD
Sample : RSK STD6 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

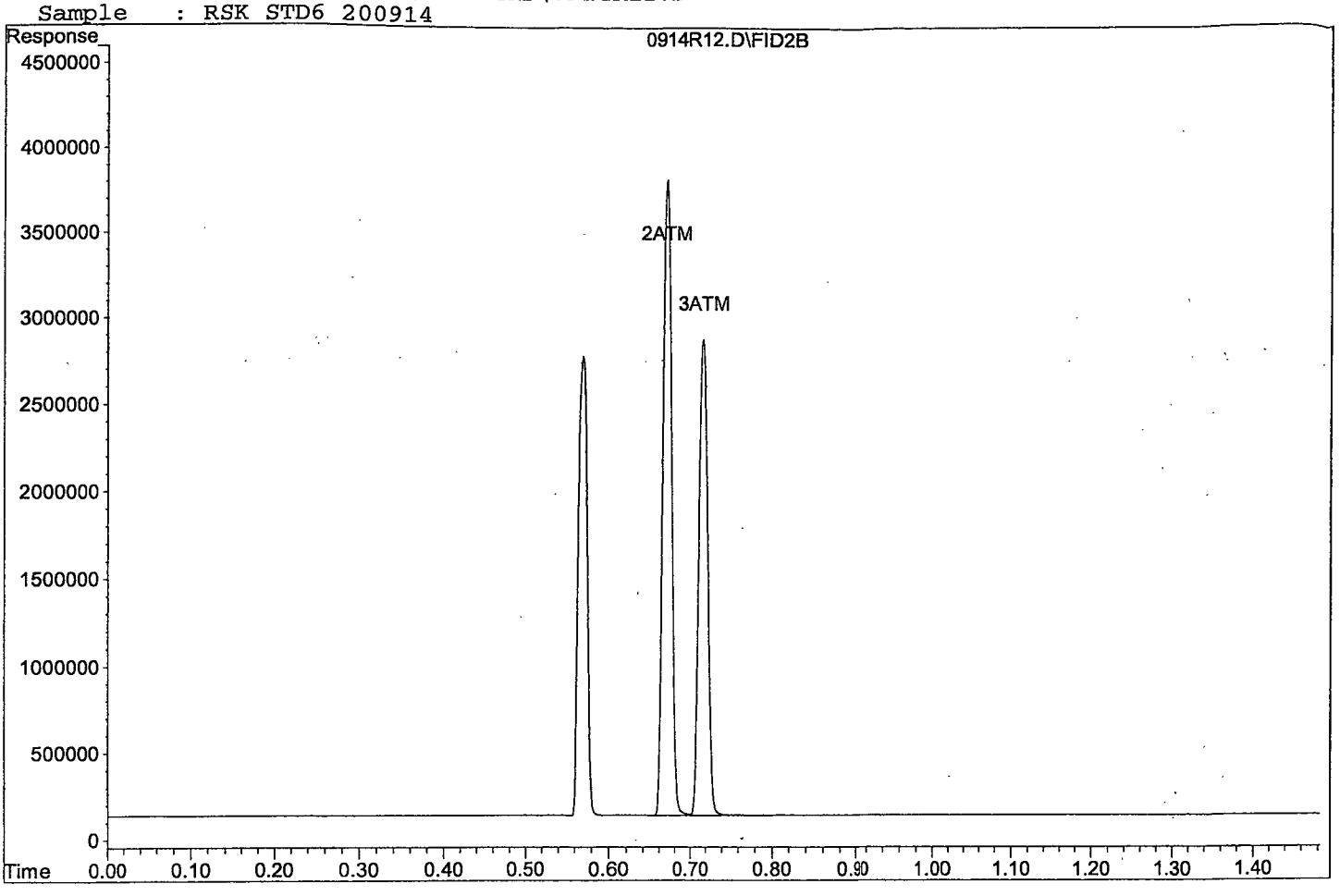
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	3684845	9357031.284	ppb
3) ATM Ethene	0.72	2745673	389.192	ppb
Target Compounds				
1) ATM Methane	0.57	2643568	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File: G:\ROCKY\DATA\200914RS\0914R12.D
Sample : RSK STD6 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R13.D Vial: 1
Acq On : 14 Sep 20 12:28 Operator: CD
Sample : RSK STD7 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

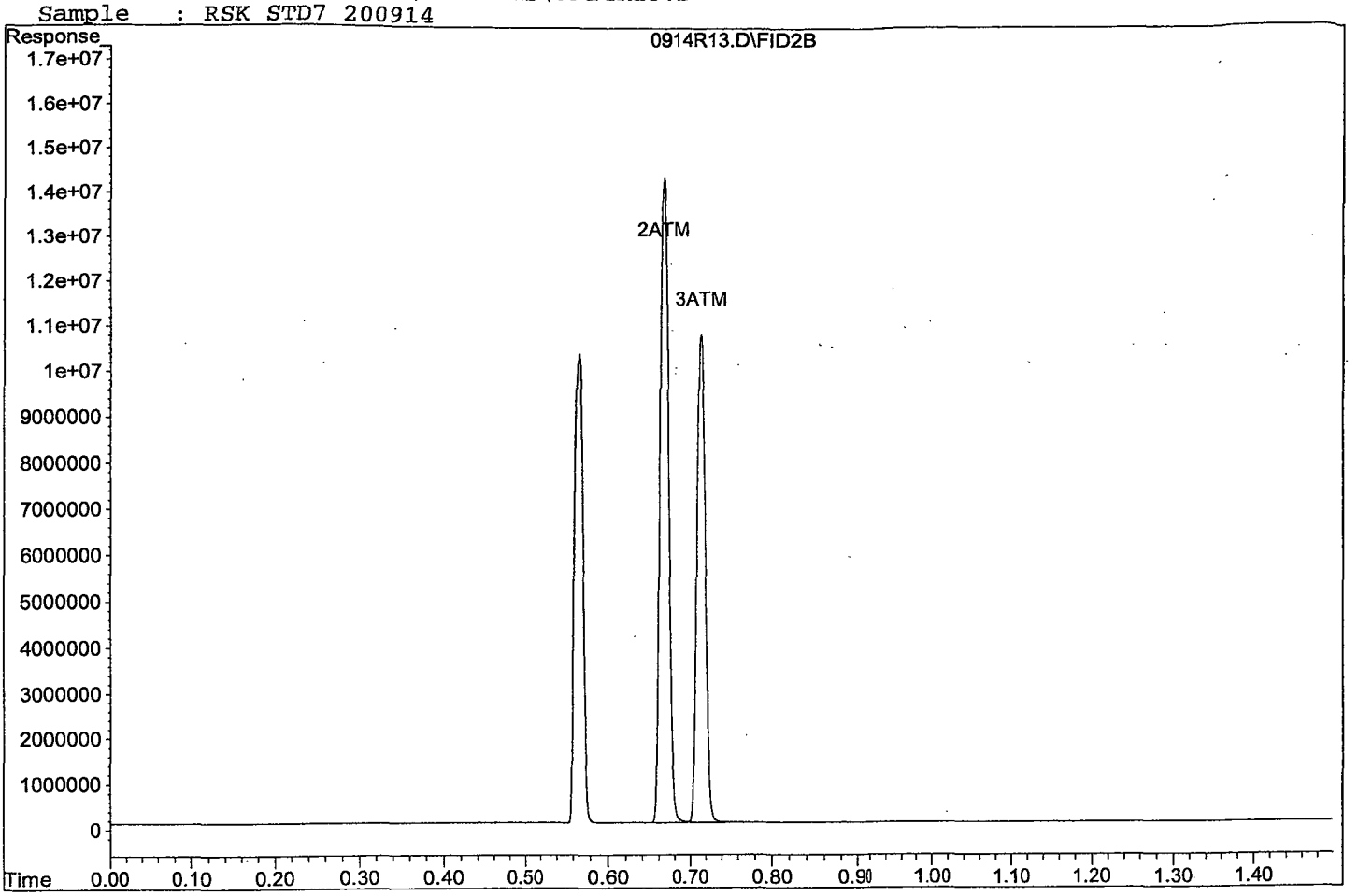
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	14239394	3616 8407.278	ppb
3) ATM Ethene	0.71	10708428	1518.210	ppb
Target Compounds				
1) ATM Methane	0.57	10274710	N.D.	ppb

Quantitation Report

Data File: G:\ROCKY\DATA\200914RS\0914R13.D
Sample : RSK STD7 200914



RSK 175

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 09/14/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 0914R14.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	25685	23394	8.9	ATML	5.2
2	ATML	Ethane	18863	17545	7.0	ATML	4.5
3	ATML	Ethene	14798	13693	7.5	ATML	6.4
4							
5							
6							
7							
8							
9							
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40							
		Average			7.8		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R14.D Vial: 1
Acq On : 14 Sep 20 12:32 Operator: CD
Sample : SS RSK STD5 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:48 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

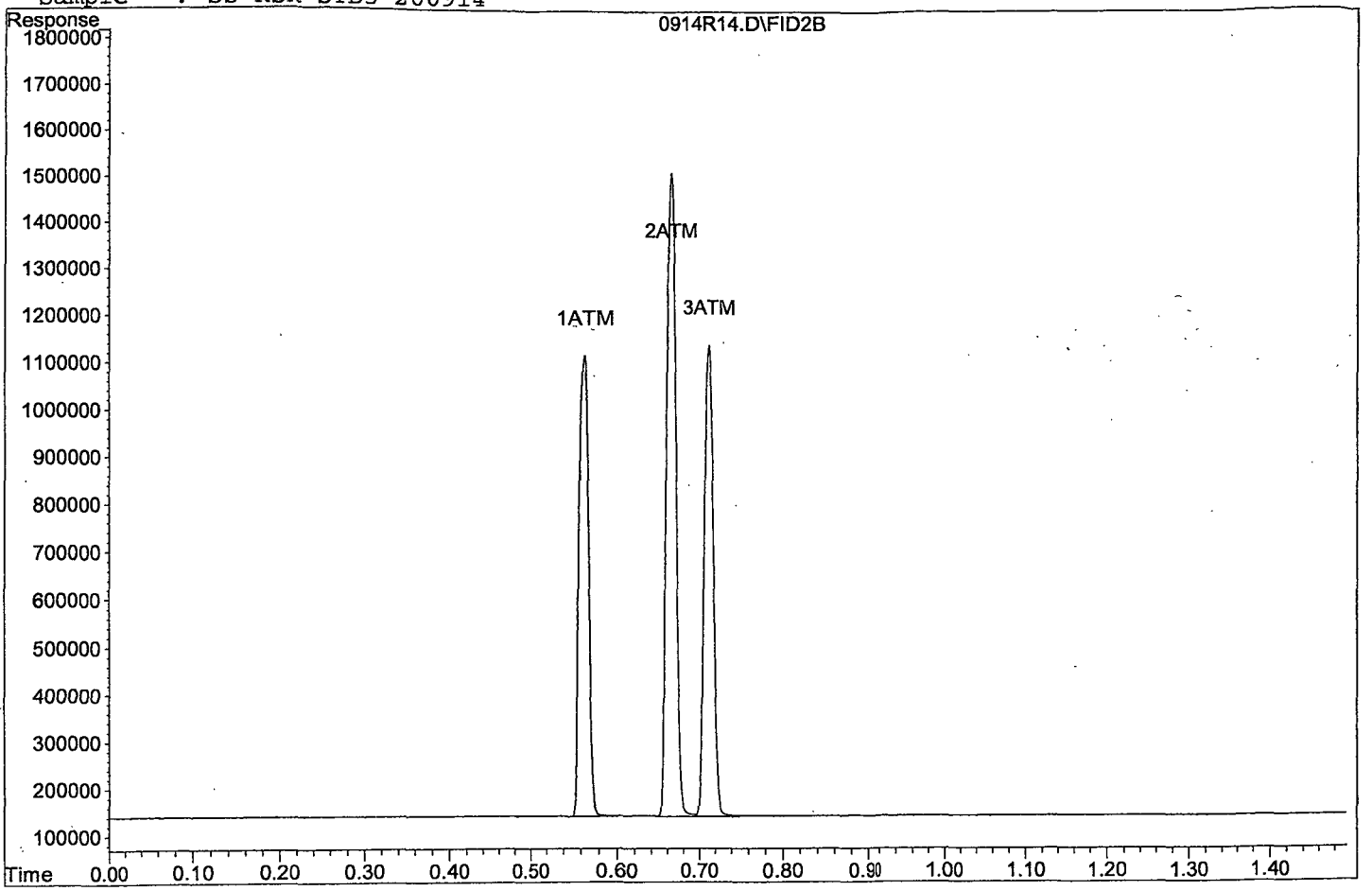
Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.56	975516	79.029 ppb
2) ATM Ethane	0.66	1371570	149.323 ppb
3) ATM Ethene	0.71	998467	136.525 ppb

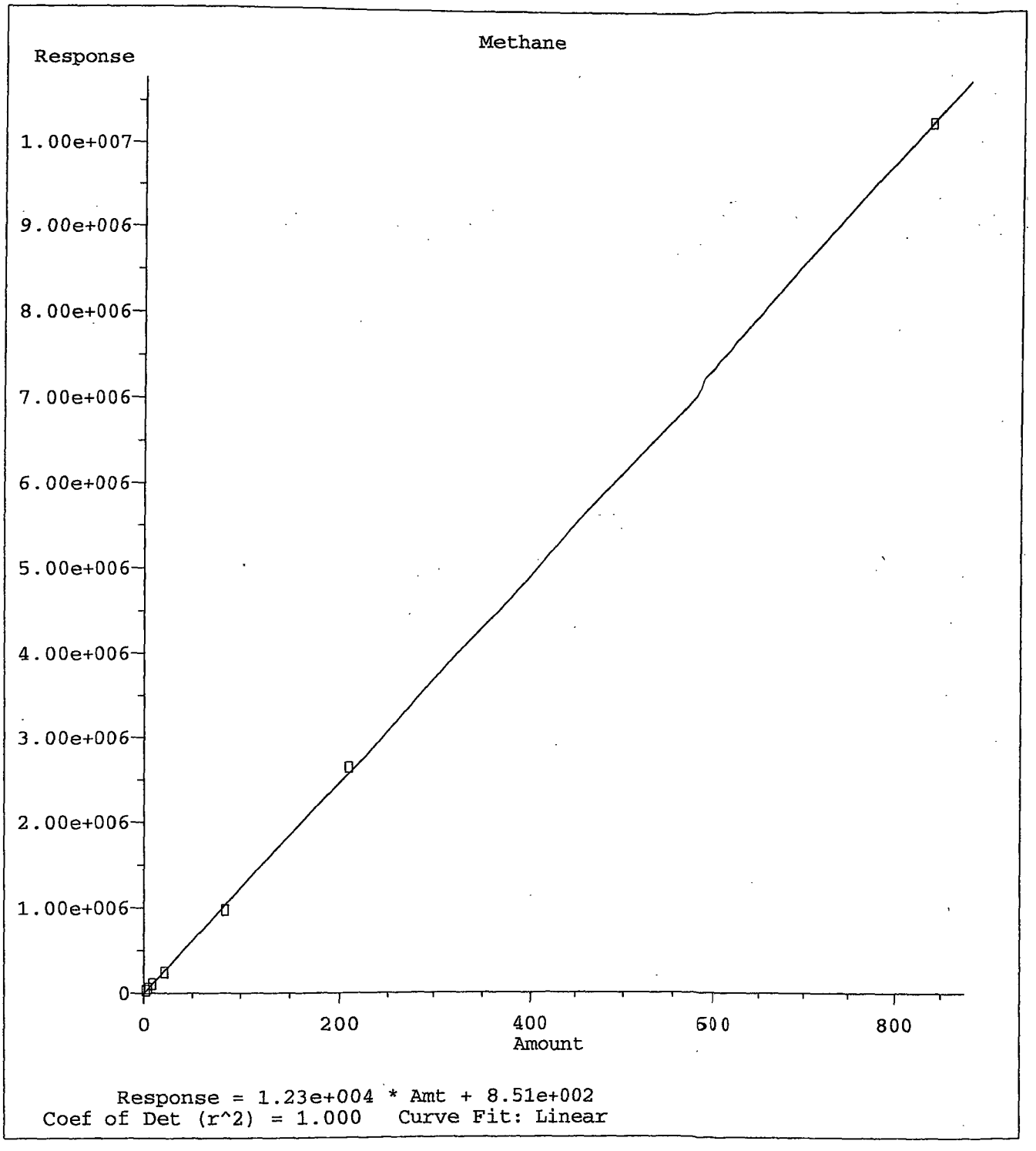
Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

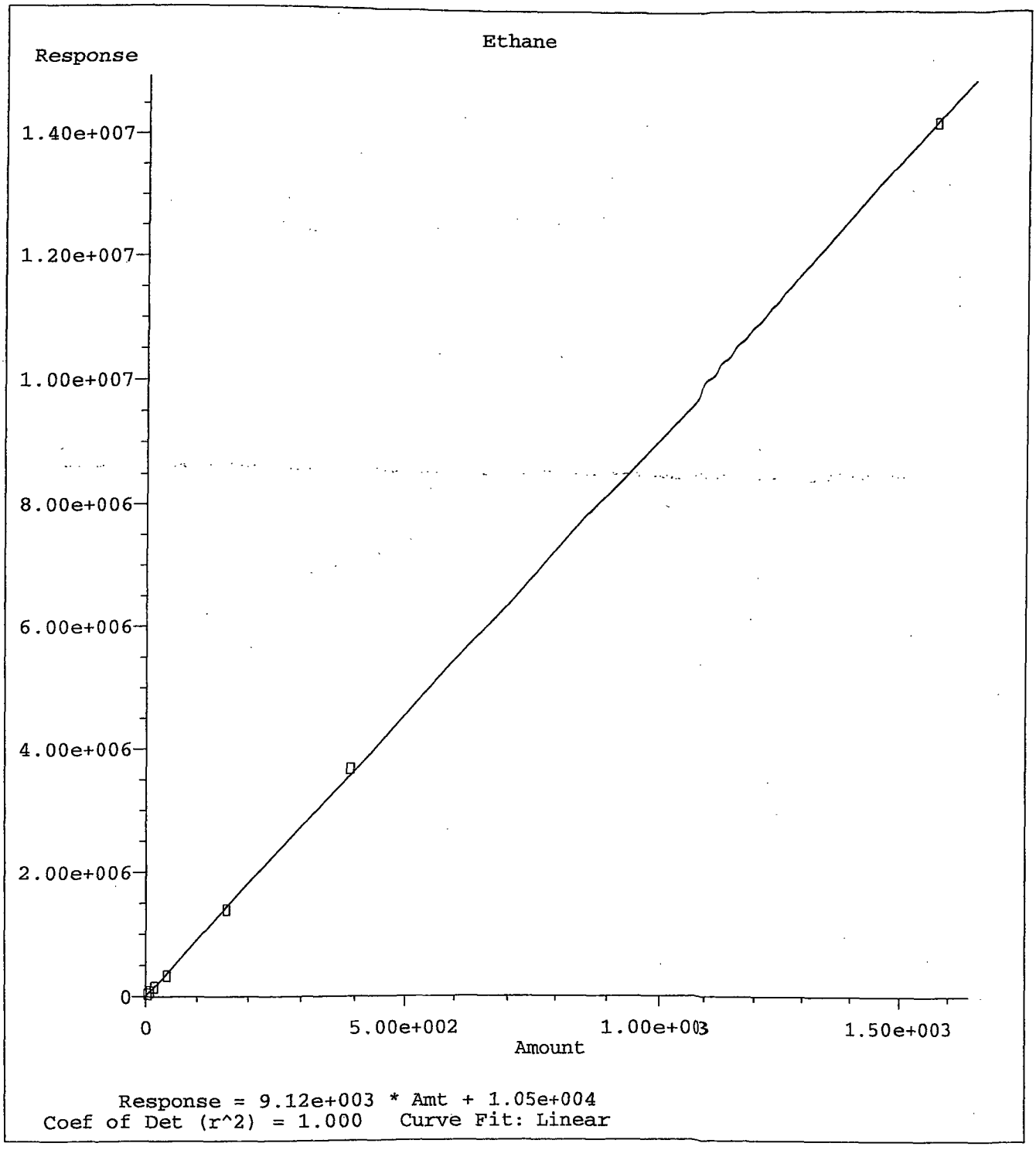
Quantitation Report

Data File: G:\ROCKY\DATA\200914RS\0914R14.D
Sample : SS RSK STD5 200914

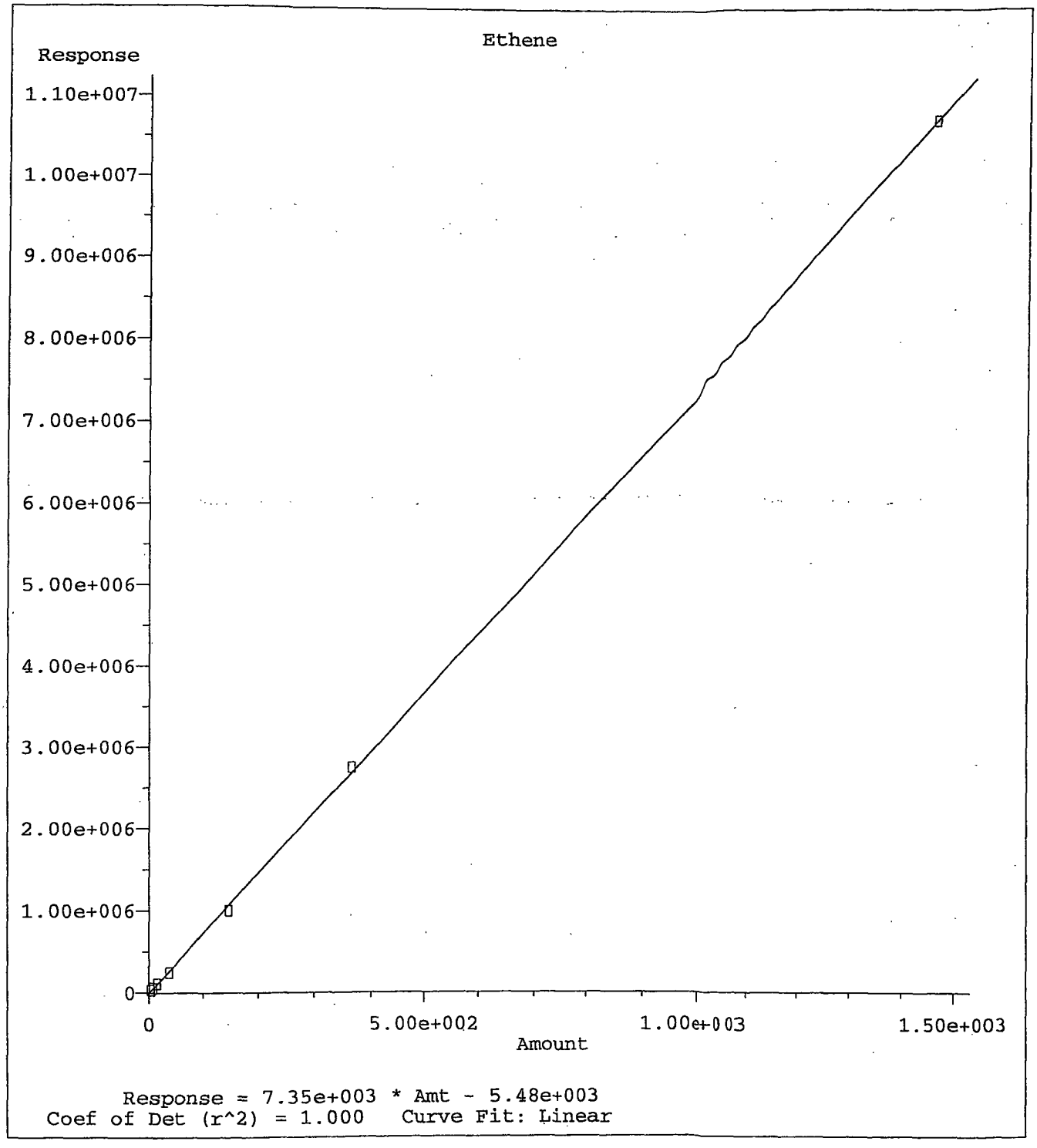




Method Name: G:\ROCKY\DATA\200624RS\RSK0914A.M
Calibration Table Last Updated: Mon Sep 14 12:40:32 2020



Method Name: G:\ROCKY\DATA\200624RS\RSK0914A.M
Calibration Table Last Updated: Mon Sep 14 12:40:32 2020



Method Name: G:\ROCKY\DATA\200624RS\RSK0914A.M
Calibration Table Last Updated: Mon Sep 14 12:40:32 2020

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/21/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 1021R04.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	25685	19285	25	ATML	22
2	ATML	Ethane	18863	19251	2.1	ATML	4.9
3	ATML	Ethene	14798	15360	3.8	ATML	4.9
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			10.3		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1021R04.D Vial: 4
Acq On : 21 Oct 20 11:46 Operator: GA
Sample : 201021A LCS/CCV Inst : 7890
Misc : re-prepped Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 11:50 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 20 16:41:32 2020
Response via : Multiple Level Calibration

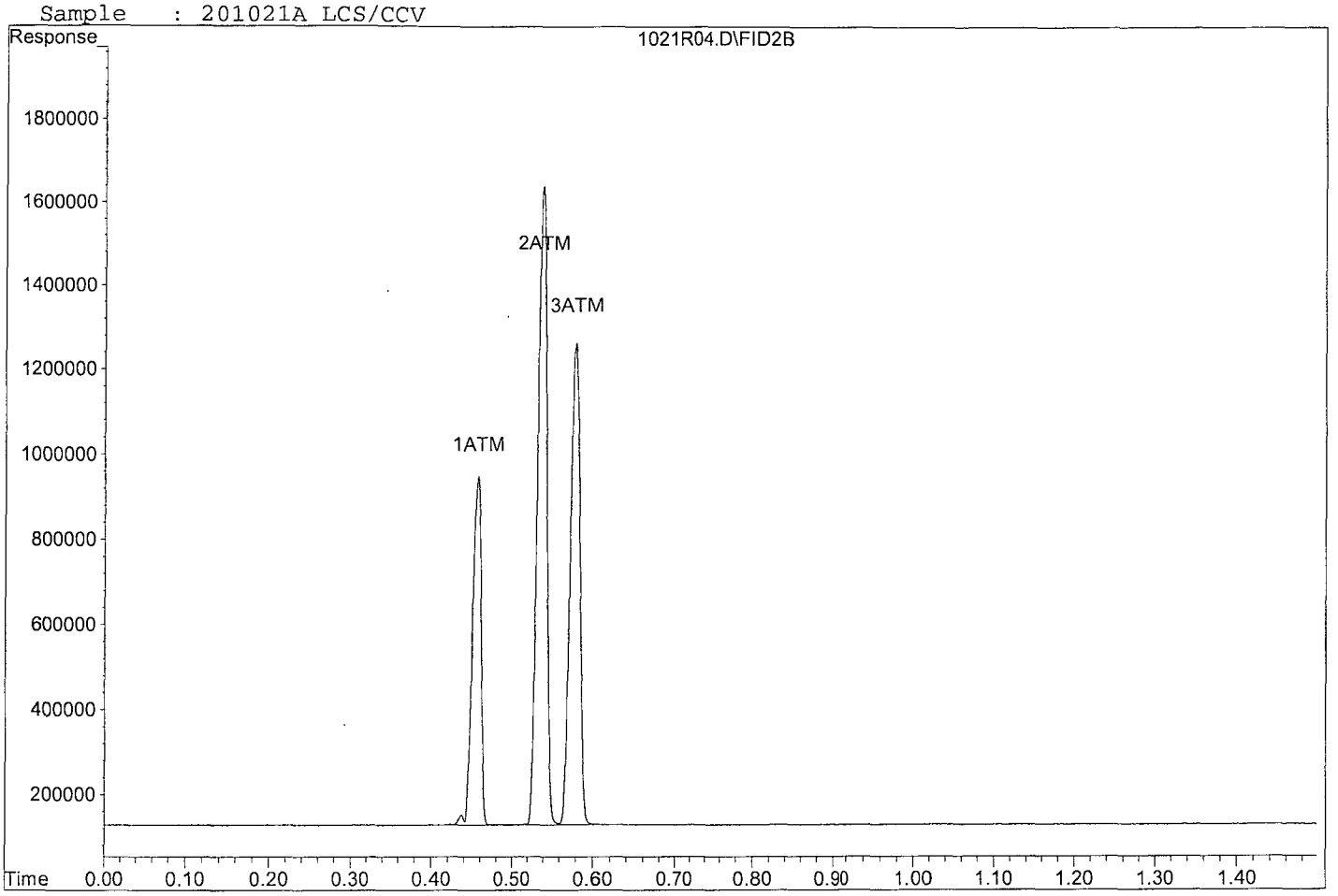
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.46	804186	65.137 ppb
2) ATM Ethane	0.54	1504960	163.957 ppb
3) ATM Ethene	0.58	1120030	153.056 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1021R04.D
Sample : 201021A LCS/CCV



Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/21/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 1021R45.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	25685	30049	17	ATML	22
2	ATML	Ethane	18863	22913	21	ATML	25
3	ATML	Ethene	14798	17240	17	ATML	18
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			18.3		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1021R45.D Vial: 45
Acq On : 21 Oct 20 14:37 Operator: GA
Sample : 201021A CCV Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 14:39 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Wed Oct 21 12:10:26 2020
Response via : Multiple Level Calibration

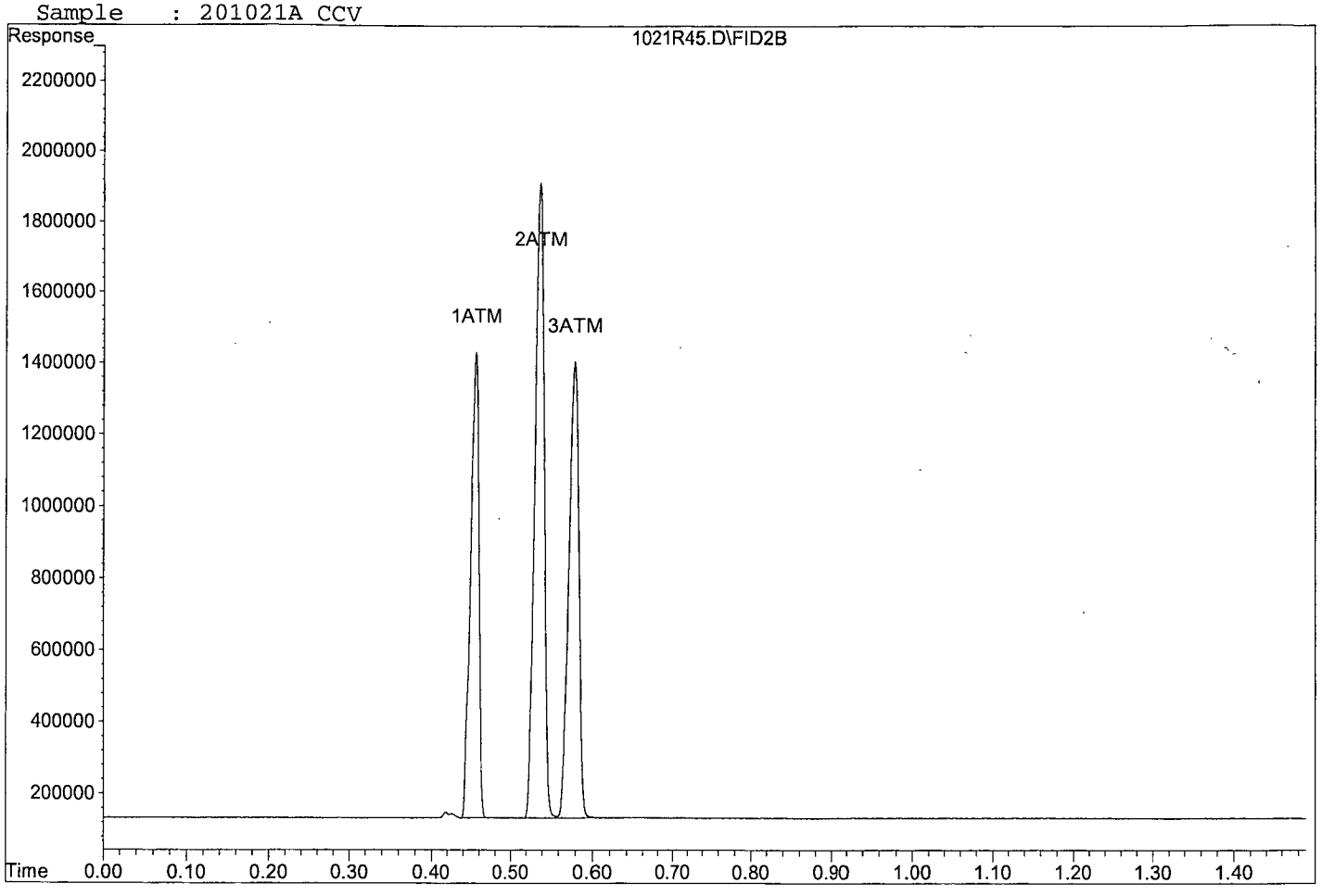
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.46	1253062	101.533 ppb
2) ATM Ethane	0.54	1791251	195.365 ppb
3) ATM Ethene	0.58	1257128	171.700 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1021R45.D
Sample : 201021A CCV



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1021R18.D Vial: 18
Acq On : 21 Oct 20 12:36 Operator: GA
Sample : BA20267W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 12:45 2020 Quant Results File: RSK0914A.RES

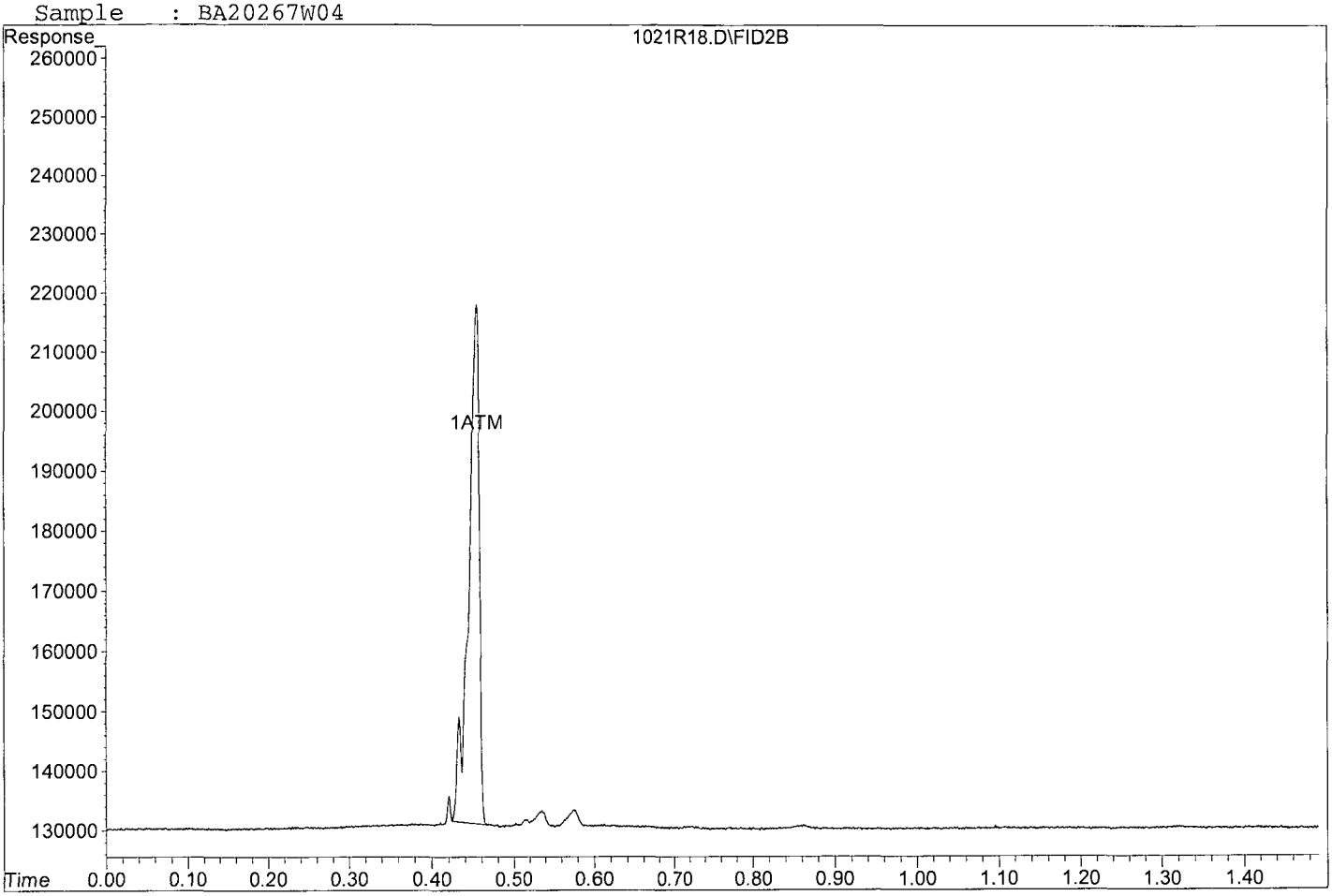
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Wed Oct 21 12:10:26 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) ATM Methane	0.45	86907	6.978	ppb	m
Target Compounds					
2) ATM Ethane	0.00	0	N.D.	ppb	
3) ATM Ethene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

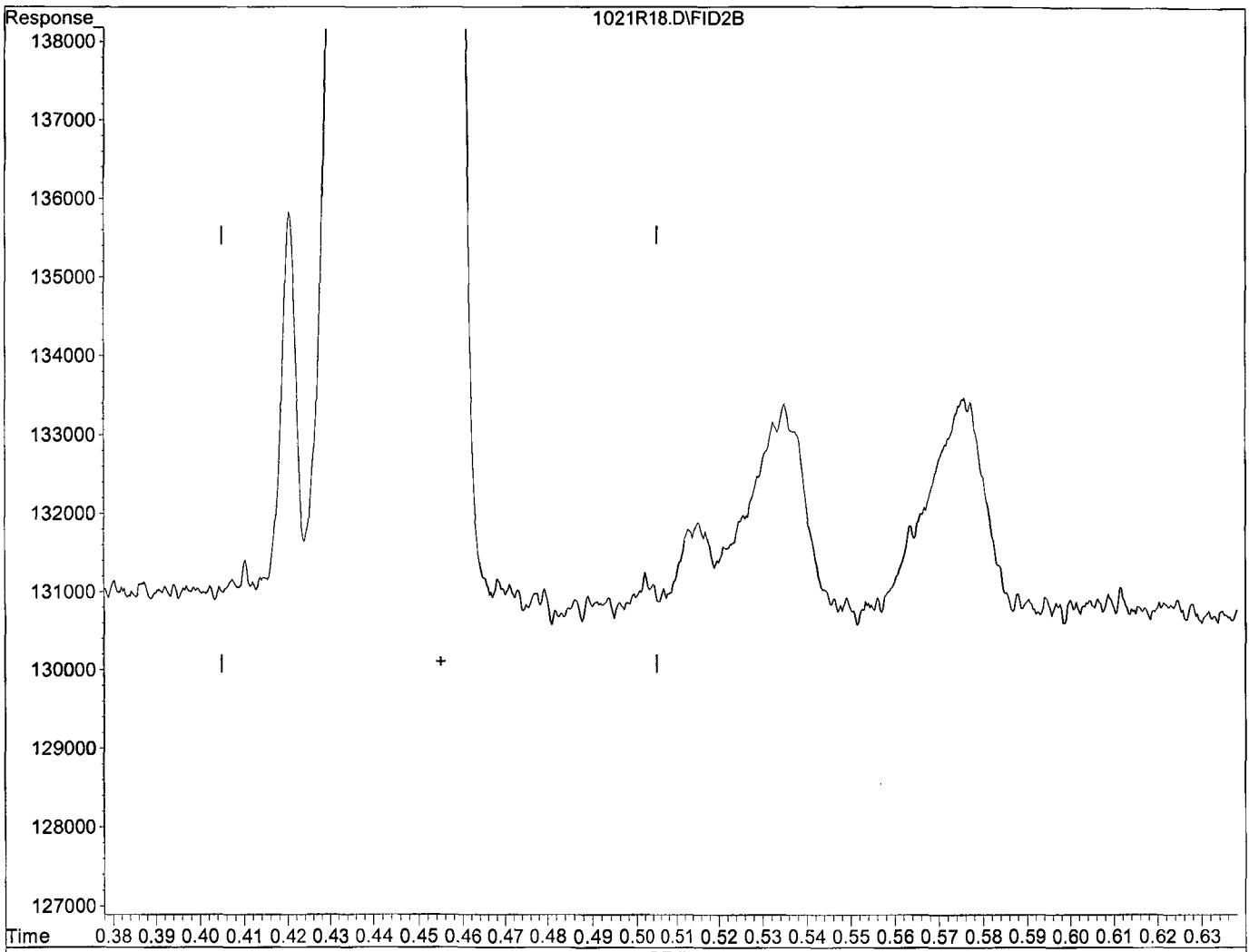
Data File: G:\ROCKY\DATA\200914RS\1021R18.D
Sample : BA20267W04



Quantitation Report

Data File : G:\ROCKY\DATA\200914RS\1021R18.D Vial: 18
Acq On : 21 Oct 20 12:36 Operator: GA
Sample : BA20267W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 12:43 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Wed Oct 21 12:10:26 2020
Response via : Multiple Level Calibration



QEdit

(1) Methane (ATM)

0.46min 0.000ppb

response 0

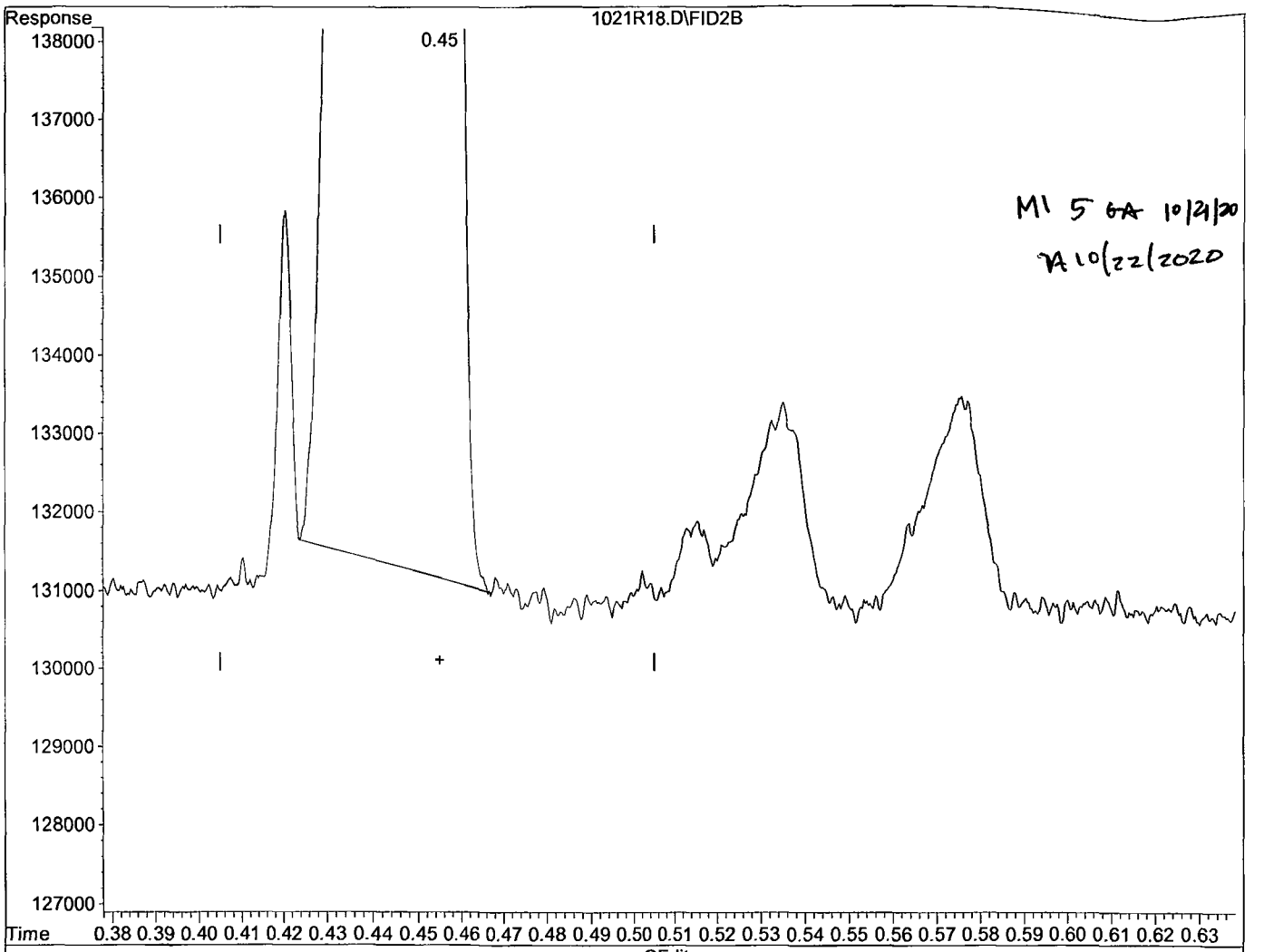
(+) = Expected Retention Time

1021R18.D RSK0914A.M Wed Oct 21 12:45:00 2020

Quantitation Report

Data File : G:\ROCKY\DATA\200914RS\1021R18.D Vial: 18
Acq On : 21 Oct 20 12:36 Operator: GA
Sample : BA20267W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 12:43 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Wed Oct 21 12:10:26 2020
Response via : Multiple Level Calibration



M1 5 GA 10/21/20
A 10/22/2020

(+) = Expected Retention Time
1021R18.D RSK0914A.M Wed Oct 21 12:45:10 2020

Quantitation Report (QT Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1021R19.D Vial: 19
Acq On : 21 Oct 20 12:40 Operator: GA
Sample : BA20268W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 12:44 2020 Quant Results File: RSK0914A.RES

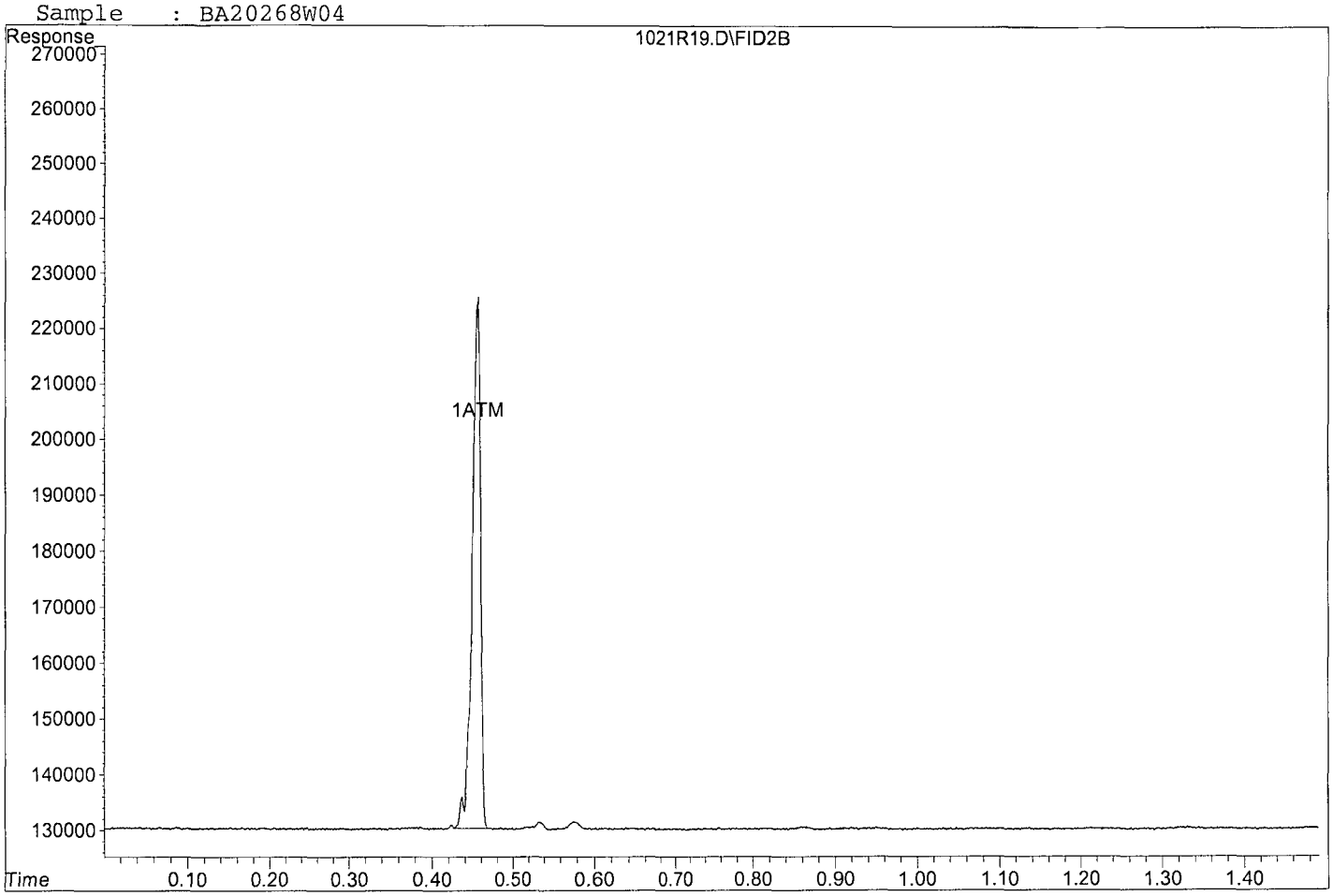
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Wed Oct 21 12:10:26 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) ATM Methane	0.46	95510	7.675	ppb	m
Target Compounds					
2) ATM Ethane	0.00	0	N.D.	ppb	
3) ATM Ethene	0.00	0	N.D.	ppb	

(f)=RT Delta > 1/2 Window (m)=manual int.

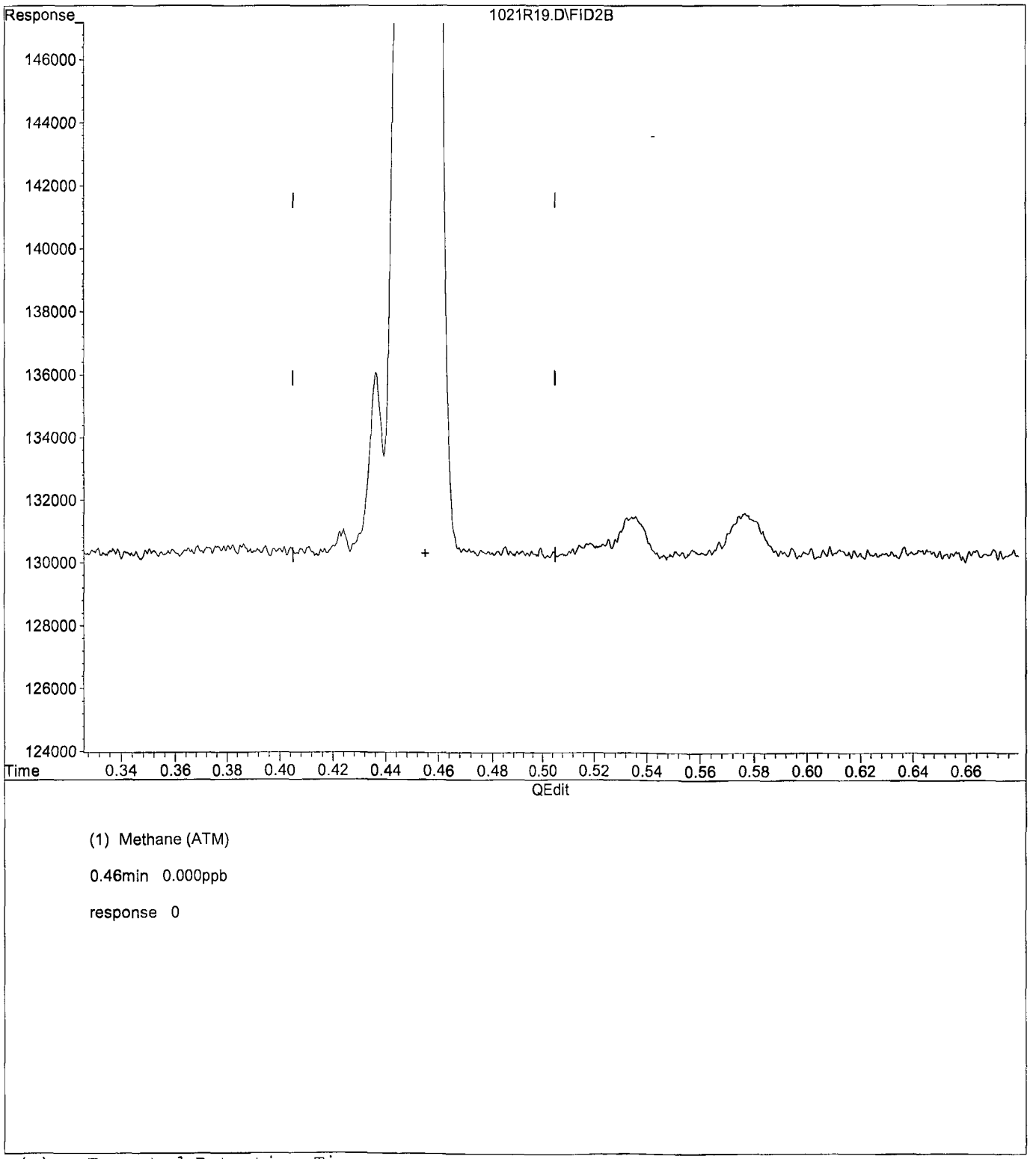
Data File: G:\ROCKY\DATA\200914RS\1021R19.D
Sample : BA20268W04



Quantitation Report

Data File : G:\ROCKY\DATA\200914RS\1021R19.D Vial: 19
Acq On : 21 Oct 20 12:40 Operator: GA
Sample : BA20268W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 12:44 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Wed Oct 21 12:10:26 2020
Response via : Multiple Level Calibration

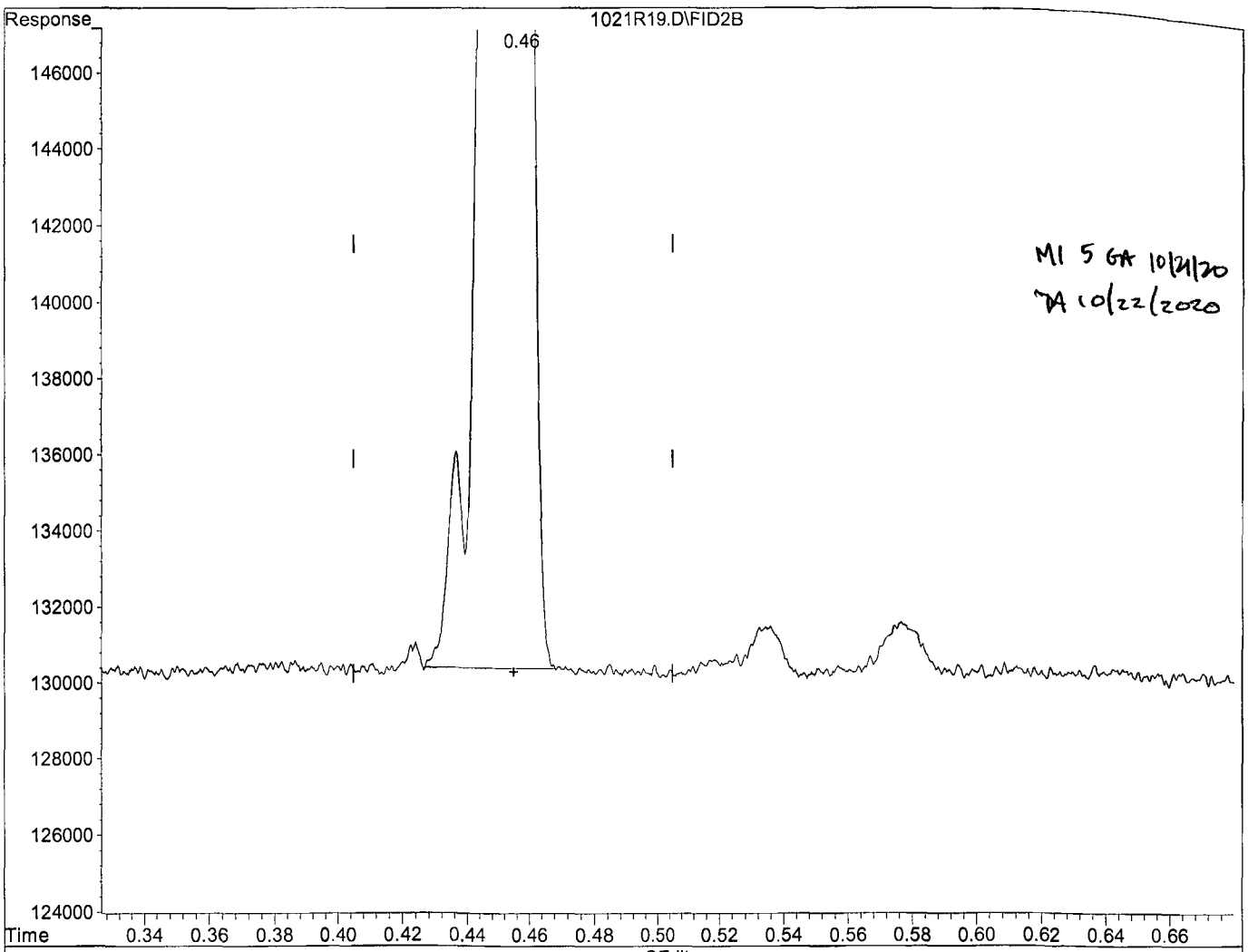


(+) = Expected Retention Time
1021R19.D RSK0914A.M Wed Oct 21 12:44:18 2020

Quantitation Report

Data File : G:\ROCKY\DATA\200914RS\1021R19.D Vial: 19
Acq On : 21 Oct 20 12:40 Operator: GA
Sample : BA20268W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 12:44 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Wed Oct 21 12:10:26 2020
Response via : Multiple Level Calibration



MI 5 GA 10/21/20
TA 10/22/2020

(1) Methane (ATM)

0.46min 7.675ppb m

response 95510

(+) = Expected Retention Time
1021R19.D RSK0914A.M Wed Oct 21 12:44:28 2020

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1021R06.D Vial: 6
Acq On : 21 Oct 20 11:56 Operator: GA
Sample : 201021A BLK Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 11:58 2020 Quant Results File: RSK0914A.RES

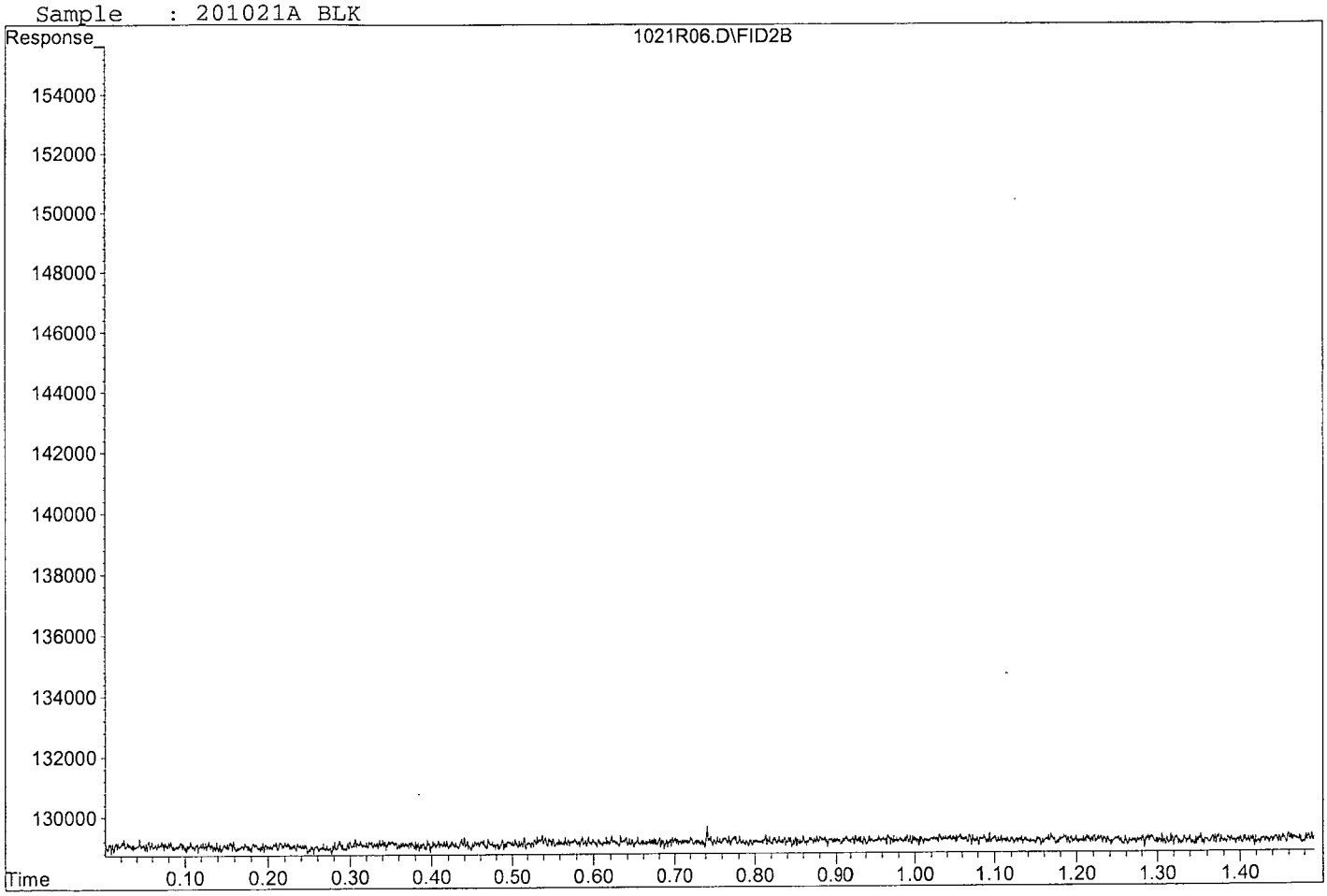
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 20 16:41:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1021R06.D
Sample : 201021A BLK



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1021R04.D Vial: 4
Acq On : 21 Oct 20 11:46 Operator: GA
Sample : 201021A LCS/CCV Inst : 7890
Misc : re-prepped Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 11:50 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Wed Oct 21 12:10:26 2020
Response via : Multiple Level Calibration

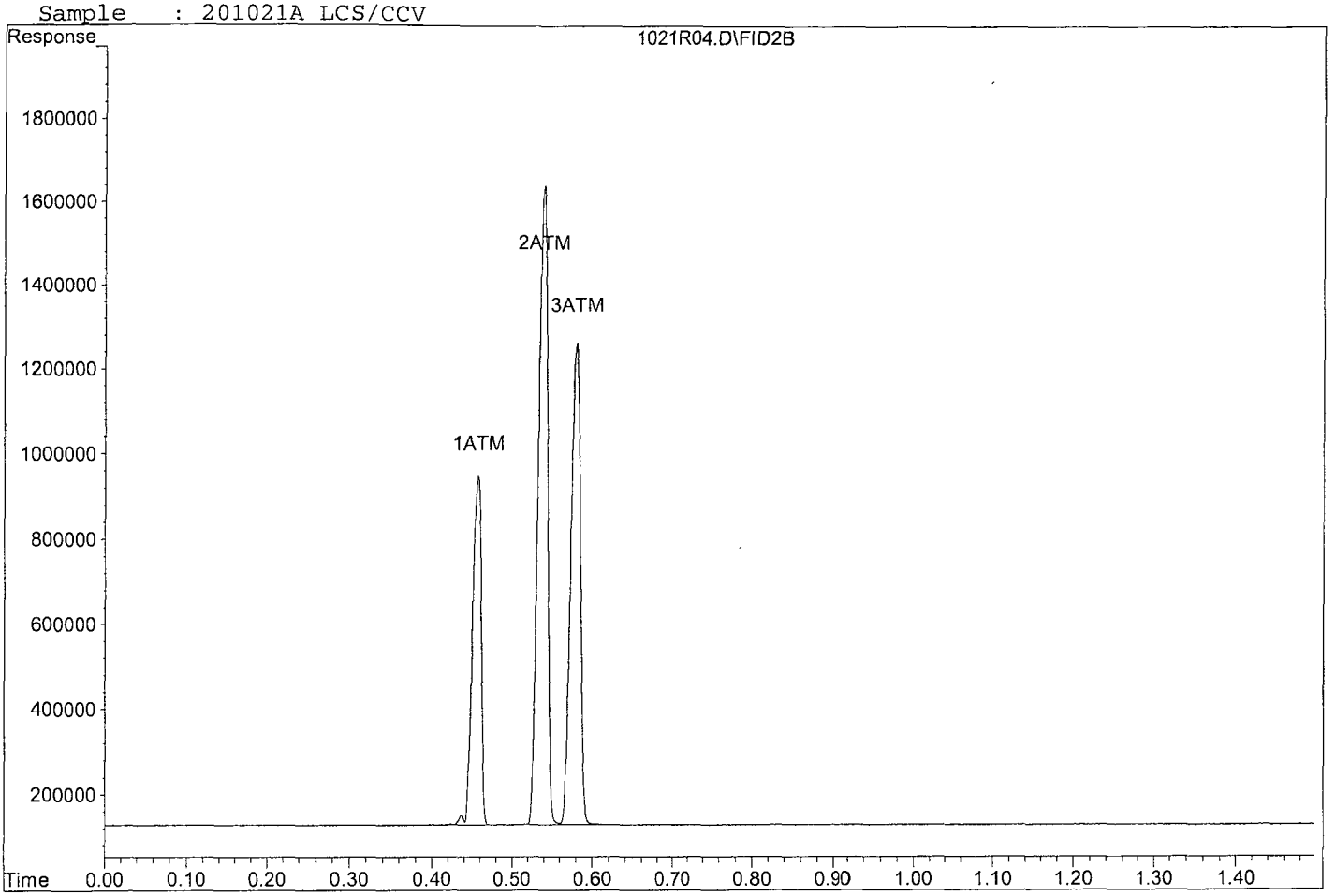
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.46	804186	65.137 ppb
2) ATM Ethane	0.54	1504960	163.957 ppb
3) ATM Ethene	0.58	1120030	153.056 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1021R04.D
Sample : 201021A LCS/CCV



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1021R05.D Vial: 5
Acq On : 21 Oct 20 11:51 Operator: GA
Sample : 201021A LCSD Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 21 11:55 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 20 16:41:32 2020
Response via : Multiple Level Calibration

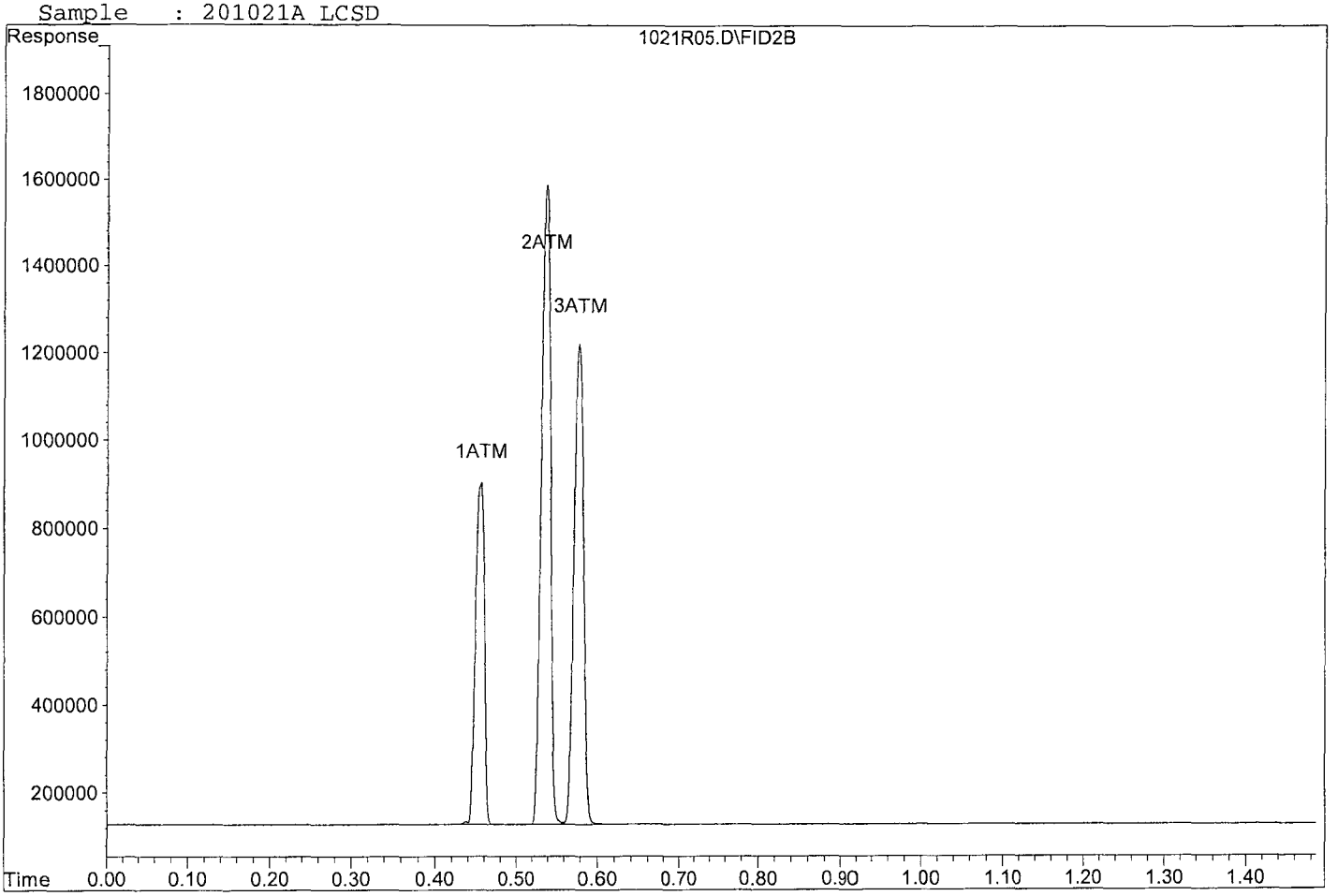
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) ATM Methane	0.45	778511	63.055	ppb
2) ATM Ethane	0.54	1469948	160.116	ppb
3) ATM Ethene	0.58	1094868	149.635	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1021R05.D
Sample : 201021A LCSD



Primary Stock Source

10,000ppmV **Manufacture Expiration:** 09/21/21

RSK Gas Mix (Scott Specialty Gas) CAT#X04NI97CP140001 LOT#160-401558175-1

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

RSK Calibration Curve

Analyte	Conc Std 1 (1/2 = LOD) (ug/L)	Conc Std 2 (LOQ Chk) (ug/L)	Conc Std 3 (ug/L)	Conc Std 4 (ug/L)	Conc Std 5 (ug/L)	Conc Std 6 (ug/L)	Conc Std 7 (ug/L)
Methane (MW 16.04)	2.08	4.16	8.34	20.85	83.40	208.5	834.0
Ethane (MW 30.07)	3.91	7.81	15.6	39.09	156.35	390.9	1563.5
Ethene (MW 28.05)	3.65	7.30	14.6	36.46	145.84	364.6	1458.4
Stock Source	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1
Stock Conc (ppmv)	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV
Stock Aliquot (mL)	0.010	0.020	0.040	0.100	0.400	1.00	4.00
Final Volume P&T Water	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL
Curve Prep:	09/14/20						
Expiration Date	09/15/20						
Analyst	CD						

Second Source Stock Standard 10,000ppmV **Manufacturer Exp date 9-21-2021**

RSK Gas Mix (Scott Specialty Gas) Cat.# 23452, Lot # 160-401303032-1-39774

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

Second Source **Expires 06/25/2020** **CD 09/14/20**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace

final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

CCV/LCS/LCSD **GA 10/21/20**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace
final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

Injection Log

Directory: G:\ROCKY\DATA\200914RS\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0914R07.D	1	RSK STD1 200914		14 Sep 20 12:06
2	1	0914R08.D	1	RSK STD2 200914		14 Sep 20 12:10
3	1	0914R09.D	1	RSK STD3 200914		14 Sep 20 12:13
4	1	0914R10.D	1	RSK STD4 200914		14 Sep 20 12:18
5	1	0914R11.D	1	RSK STD5 200914		14 Sep 20 12:21
6	1	0914R12.D	1	RSK STD6 200914		14 Sep 20 12:25
7	1	0914R13.D	1	RSK STD7 200914		14 Sep 20 12:28
8	1	0914R14.D	1	SS RSK STD5 200914		14 Sep 20 12:32
9	4	1021R04.D	1	201021A LCS/CCV	re-prepped	21 Oct 20 11:46
10	5	1021R05.D	1	201021A LCSD	RSK STD 5	21 Oct 20 11:51
11	6	1021R06.D	1	201021A BLK		21 Oct 20 11:56
23	18	1021R18.D	1	BA20267W04		21 Oct 20 12:36
24	19	1021R19.D	1	BA20268W04		21 Oct 20 12:40
50	45	1021R45.D	1	201021A CCV	RSK STD 5	21 Oct 20 14:37

INORGANIC ANALYSIS
Calibration Data

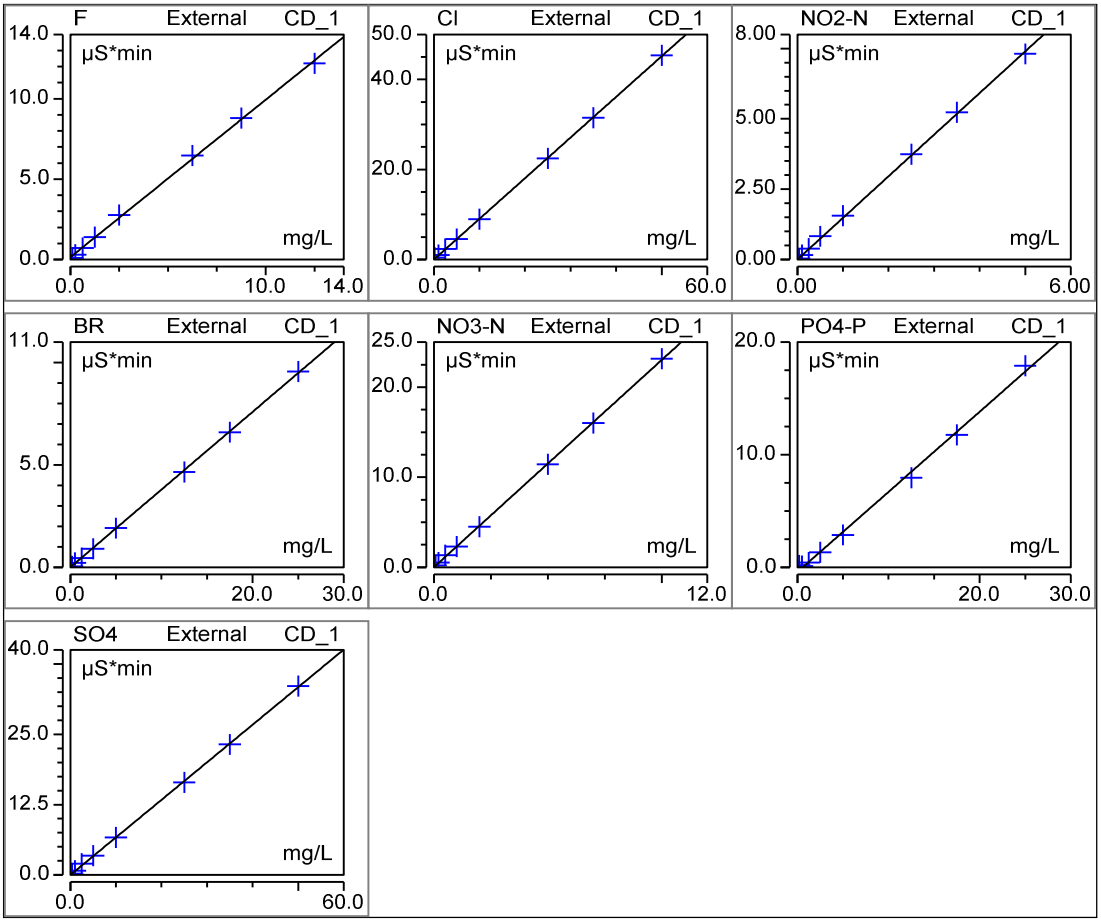
Calibration Batch Report

Sequence:	**200914**	*Injection Volume:*	**100.00**
Instrument Method:	**Anions IM**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:14**	*Run Time:*	**11.3**

Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset	8.000	0.145	0.979	0.000	99.9001
Cl	Area	Lin	8.000	0.000	0.903	0.000	99.9935
NO2-N	Area	Lin	8.000	0.000	1.479	0.000	99.9464
BR	Area	Lin	8.000	0.000	0.380	0.000	99.9760
NO3-N	Area	Lin	8.000	0.000	2.303	0.000	99.9829
PO4-P	Area	Lin, WithOffset	8.000	-0.422	0.712	0.000	99.6941
SO4	Area	Lin	8.000	0.000	0.668	0.000	99.9749

Injection Name	Amount mg/L CD_1 F	Amount mg/L CD_1 Cl	Amount mg/L CD_1 NO2-N	Amount mg/L CD_1 BR	Amount mg/L CD_1 NO3-N	Amount mg/L CD_1 PO4-P	Amount mg/L CD_1 SO4
Cal 1 2020.09.14	n.a.	0.4466	0.0267	0.1154	0.0851	0.8392	0.3384
Cal 2 2020.09.14	0.156	1.0882	0.1103	0.5719	0.2207	0.7580	1.0968
Cal 3 2020.09.14	0.579	2.5688	0.2608	1.1951	0.5851	1.1858	3.0282
Cal 6 2020.09.14	6.454	24.8384	2.5325	12.2607	4.9590	11.7563	24.6682
Cal 7 2020.09.14	8.833	34.8728	3.5379	17.3849	6.9578	17.1045	34.7367
Cal 8 2020.09.14	12.309	50.1817	4.9401	25.2082	10.0551	25.7199	50.3133
Cal 4 2020.09.14	1.274	5.0060	0.5579	2.3764	0.9968	2.4551	5.1734
Cal 5 2020.09.14	2.674	9.9066	1.0533	5.0316	1.9525	4.6312	9.9586

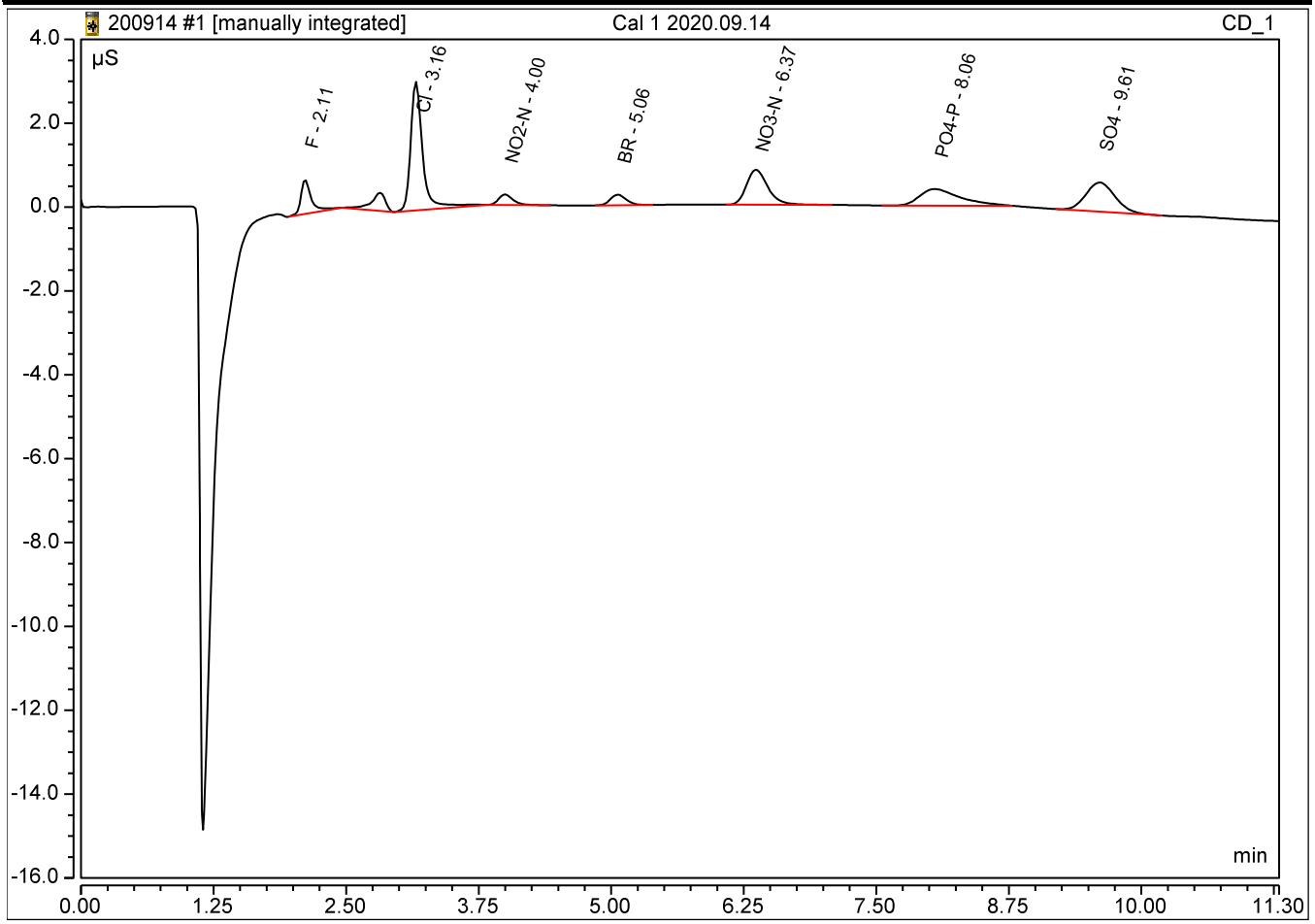


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 1 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:17**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	0.093	0.817	n.a.	0.1	951224067 c
3	3.16	**Cl**	BMB	0.403	3.072	0.45	0.2	223.3%
4	4.00	**NO2-N**	BMB	0.039	0.250	0.03	0.04	66.7%
5	5.06	**BR**	BMB	0.044	0.253	0.12	0.2	57.7%
6	6.37	**NO3-N**	BMB	0.196	0.837	0.09	0.08	106.4%
7	8.06	**PO4-P**	BMB*	0.176	0.398	0.84	0.2	419.6%
8	9.61	**SO4**	BMB	0.226	0.700	0.34	0.4	84.6%

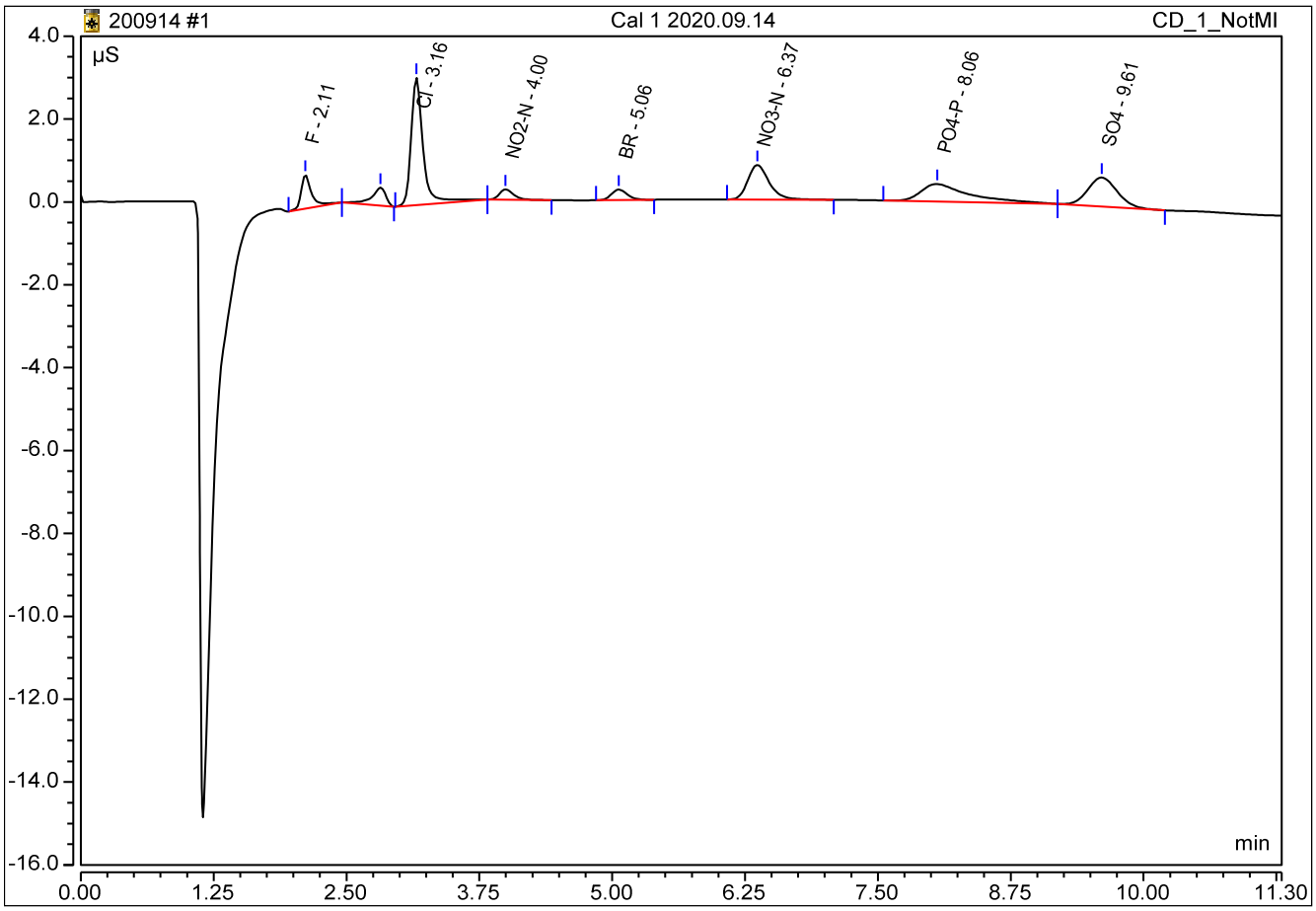


MI 5 PO4 GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**Cal 1 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:17**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.11	**F**	BMB	0.093	0.817	-0.0531
3	3.16	**Cl**	BMB	0.403	3.072	0.4466
4	4.00	**NO2-N**	BMB	0.039	0.250	0.0267
5	5.06	**BR**	BMB	0.044	0.253	0.1154
6	6.37	**NO3-N**	BMB	0.196	0.837	0.0849
7	8.06	**PO4-P**	BMB*	0.223	0.422	0.8905
8	9.61	**SO4**	BMB	0.226	0.700	0.3383

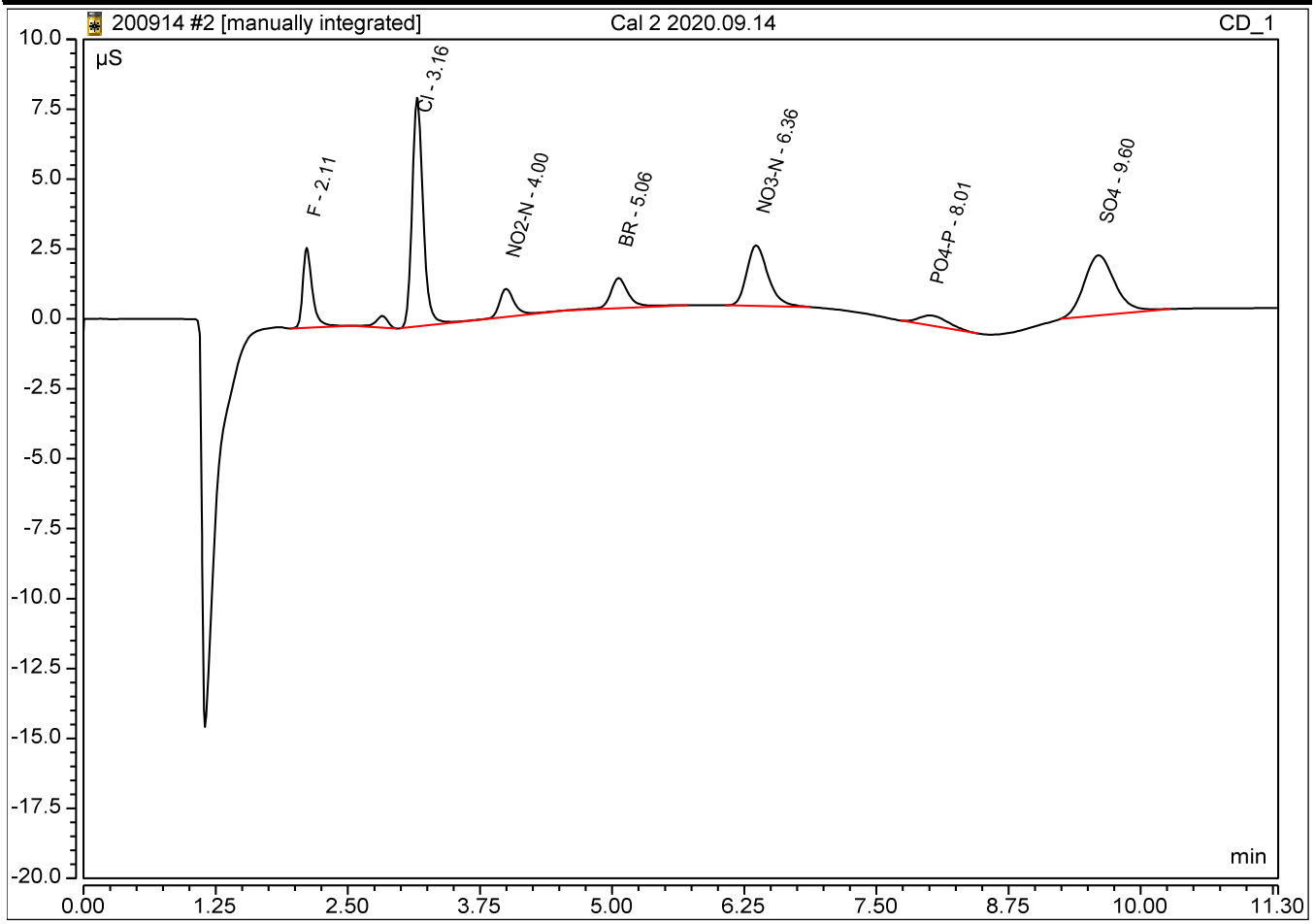


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 2 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:31**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	0.298	2.857	0.16	0.25	62.4%
3	3.16	**Cl**	BMB	0.983	8.183	1.09	1	108.8%
4	4.00	**NO2-N**	BMB	0.163	1.007	0.11	0.1	110.3%
5	5.06	**BR**	BMB	0.217	1.077	0.57	0.5	114.4%
6	6.36	**NO3-N**	BMB*	0.508	2.172	0.22	0.2	110.4%
7	8.01	**PO4-P**	BMB	0.118	0.358	0.76	0.5	151.6%
8	9.60	**SO4**	BMB*	0.732	2.158	1.10	1	109.7%

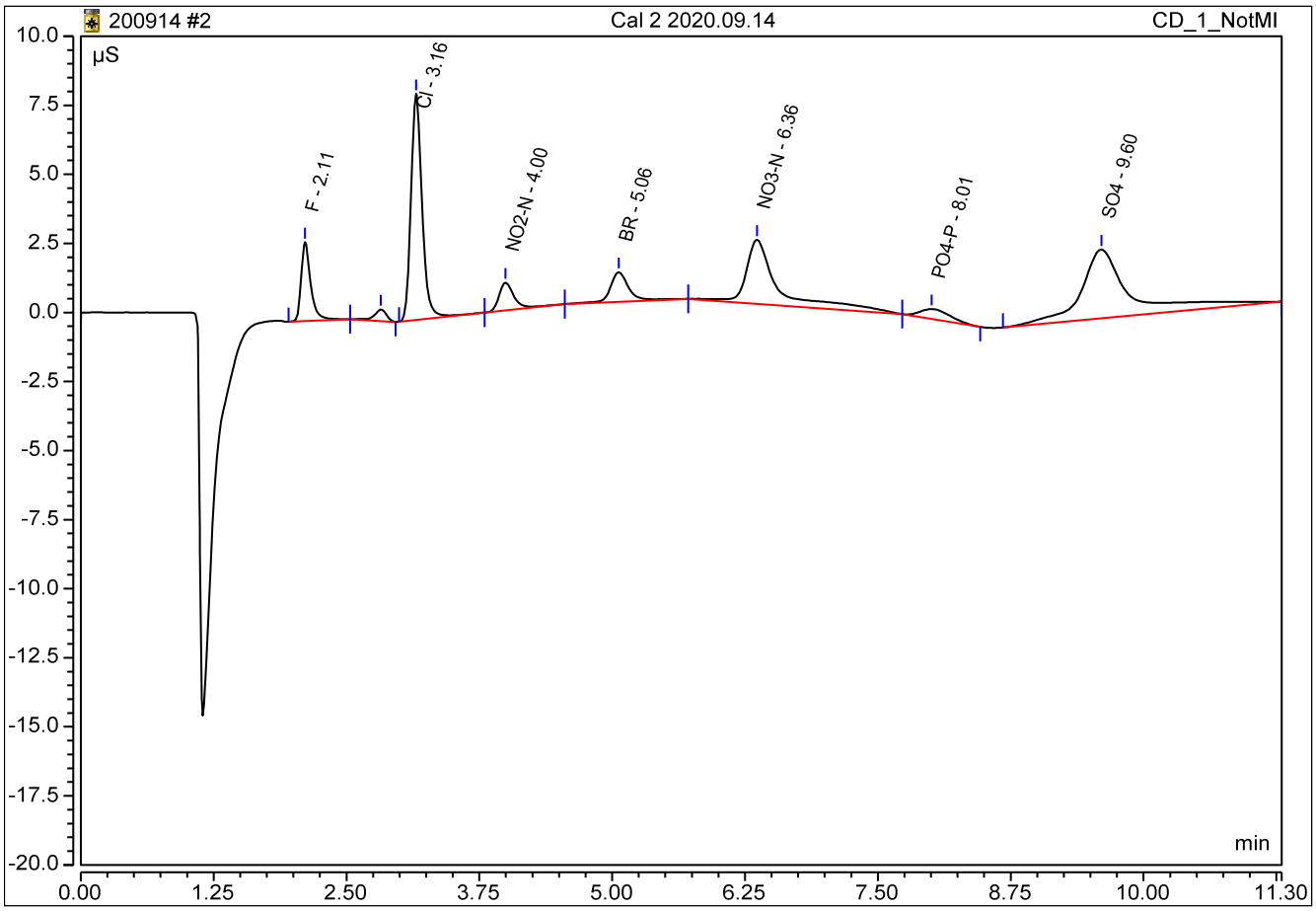


MI 5 F GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**Cal 2 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:31**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.11	**F**	BMB	0.298	2.857	0.1559
3	3.16	**Cl**	BMB	0.983	8.183	1.0882
4	4.00	**NO2-N**	BMB	0.163	1.007	0.1103
5	5.06	**BR**	BMB	0.217	1.077	0.5719
6	6.36	**NO3-N**	BMB*	0.803	2.321	0.3480
7	8.01	**PO4-P**	BMB	0.118	0.358	0.7435
8	9.60	**SO4**	BMB*	1.336	2.496	2.0007

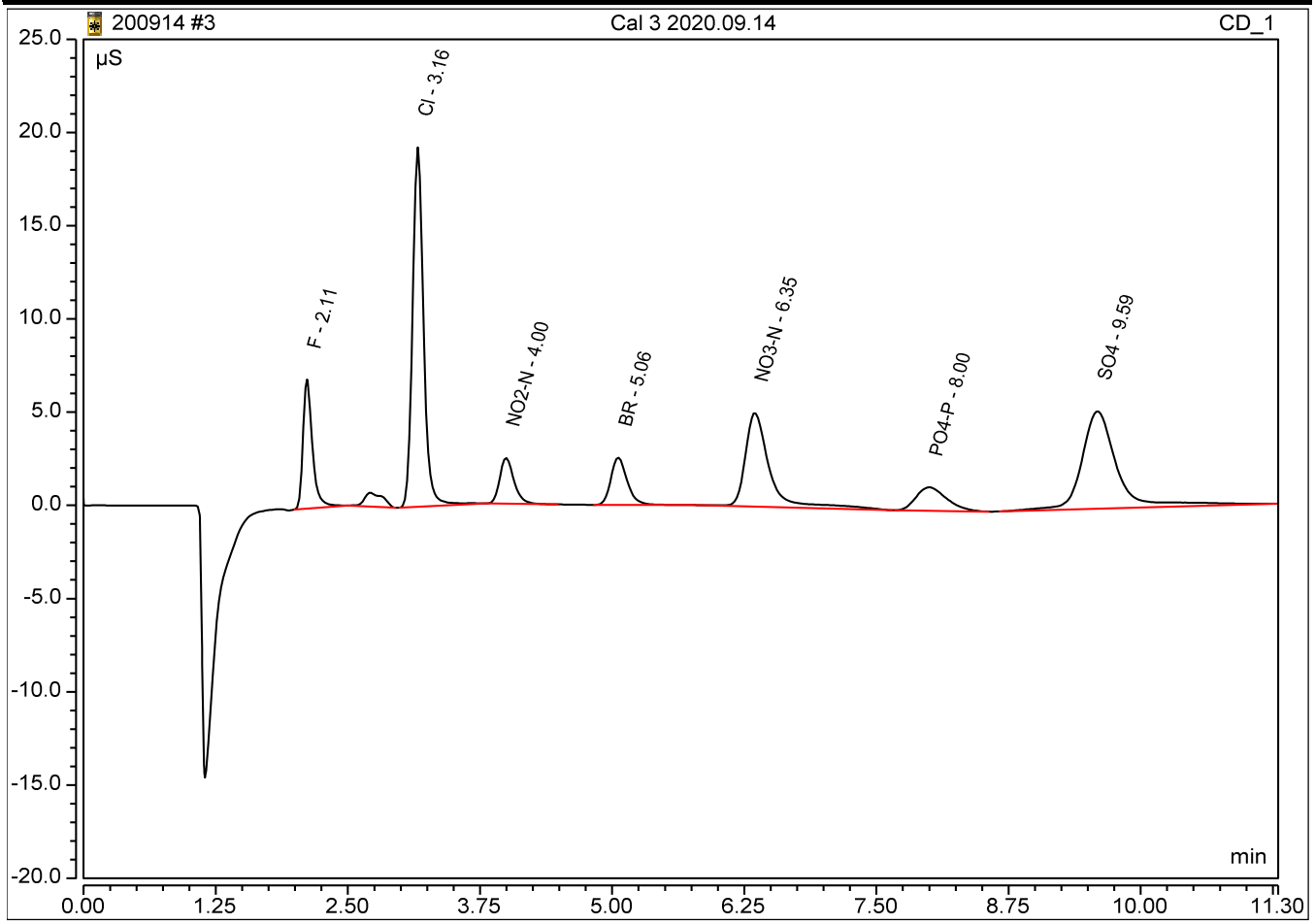


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 3 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:46**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	0.712	6.920	0.58	0.625	92.6%
3	3.16	**Cl**	BMB	2.321	19.279	2.57	2.5	102.8%
4	4.00	**NO2-N**	BMB	0.386	2.457	0.26	0.25	104.3%
5	5.06	**BR**	BMB	0.454	2.538	1.20	1.25	95.6%
6	6.35	**NO3-N**	BMB	1.347	5.037	0.59	0.5	117.0%
7	8.00	**PO4-P**	BMB	0.423	1.261	1.19	1.25	94.9%
8	9.59	**SO4**	BMB	2.022	5.227	3.03	2.5	121.1%

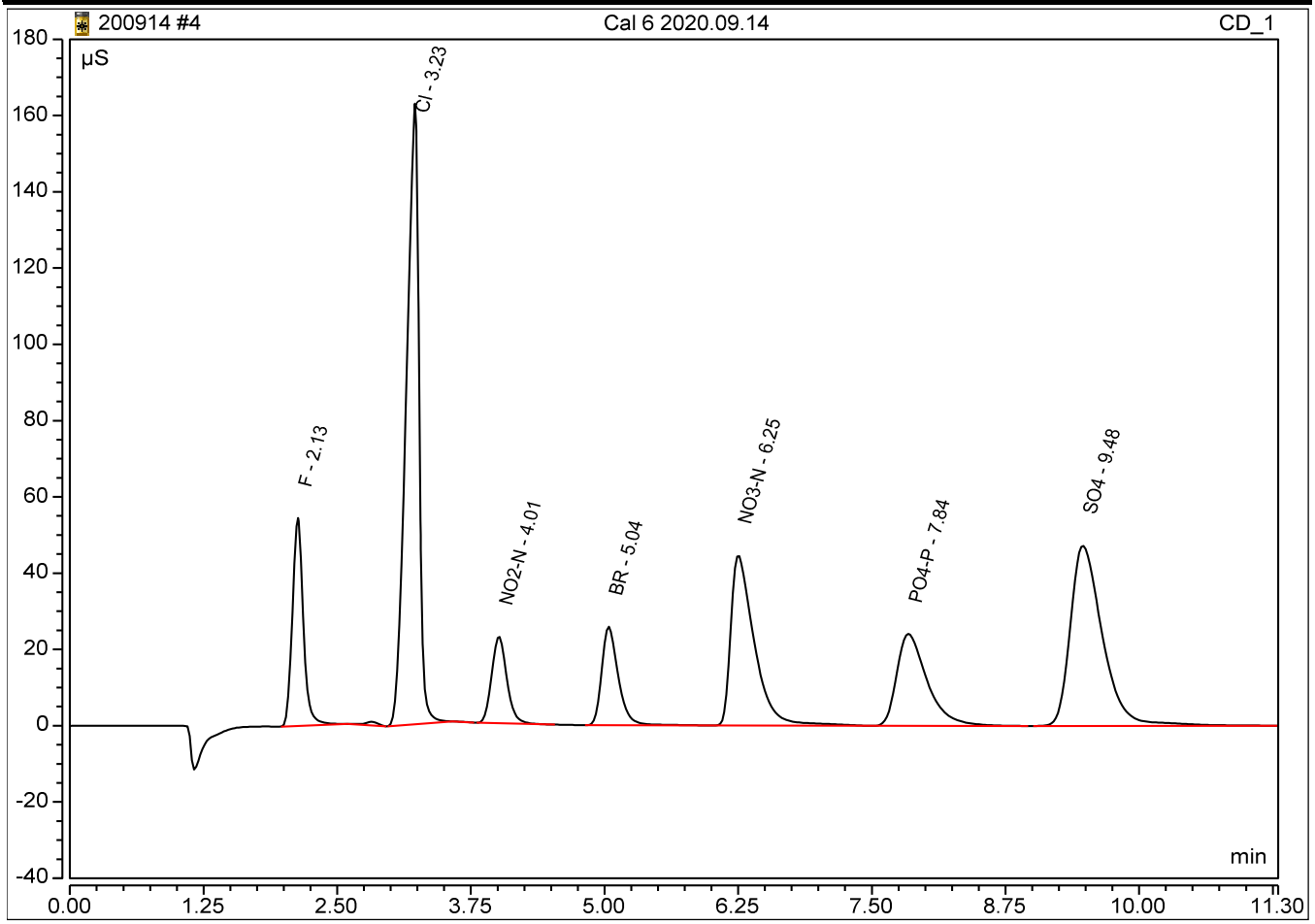


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 6 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 12:30**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.13	**F**	BMB	6.464	54.477	6.45	6.25	103.3%
3	3.23	**Cl**	BMB	22.440	162.678	24.84	25	99.4%
5	4.01	**NO2-N**	BMB	3.747	22.824	2.53	2.5	101.3%
6	5.04	**BR**	BMB	4.656	25.839	12.26	12.5	98.1%
7	6.25	**NO3-N**	BMB	11.419	44.646	4.96	5	99.2%
8	7.84	**PO4-P**	BMB	7.951	24.149	11.76	12.5	94.1%
9	9.48	**SO4**	BMB	16.472	47.232	24.67	25	98.7%

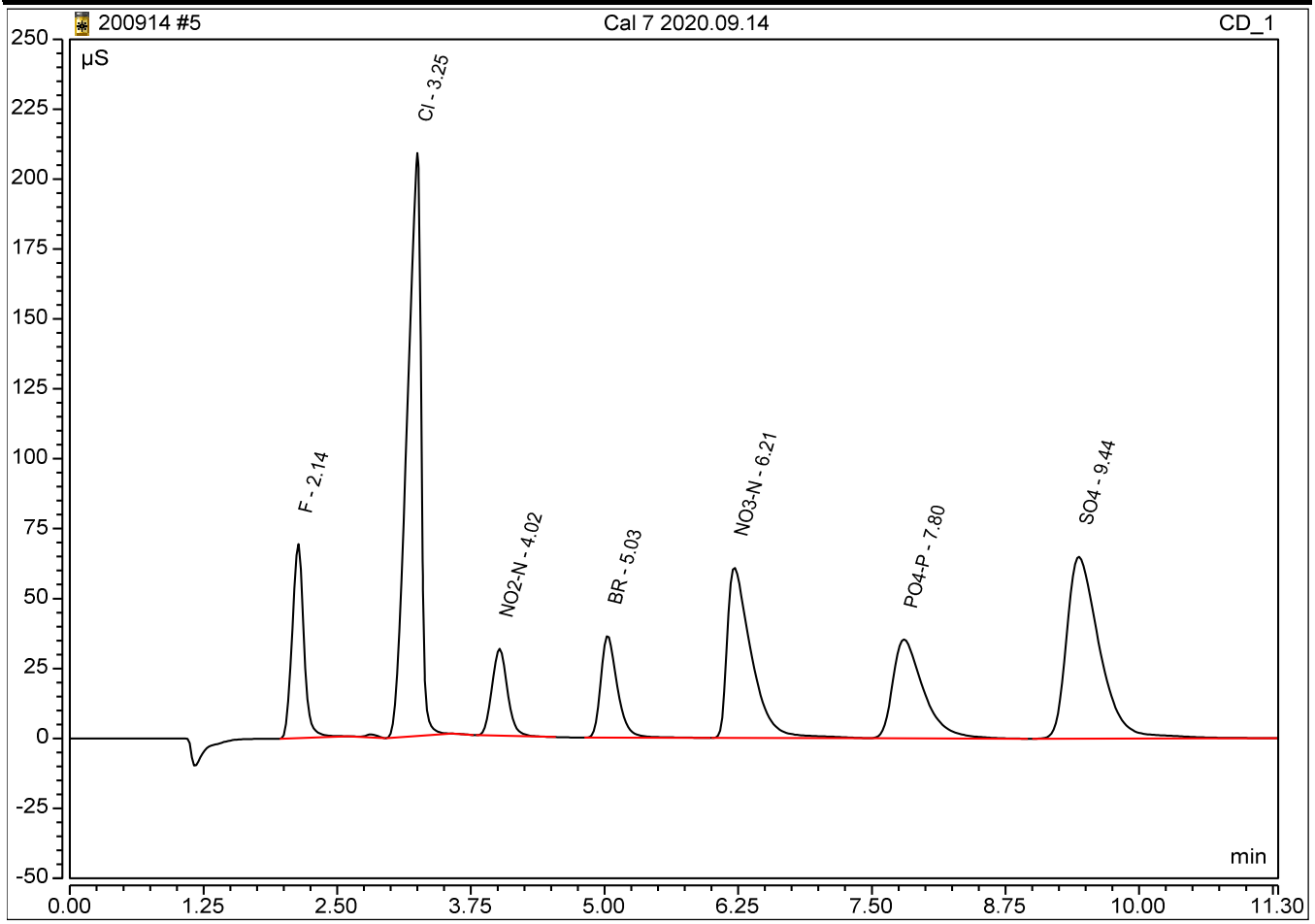


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 7 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 12:44**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.14	**F**	BMB	8.794	69.377	8.83	8.75	100.9%
3	3.25	**Cl**	BMB	31.505	208.470	34.87	35	99.6%
5	4.02	**NO2-N**	BMB	5.234	31.143	3.54	3.5	101.1%
6	5.03	**BR**	BMB	6.602	36.544	17.38	17.5	99.3%
7	6.21	**NO3-N**	BMB	16.022	60.982	6.96	7	99.4%
8	7.80	**PO4-P**	BMB	11.759	35.362	17.10	17.5	97.7%
9	9.44	**SO4**	BMB	23.196	65.073	34.74	35	99.2%

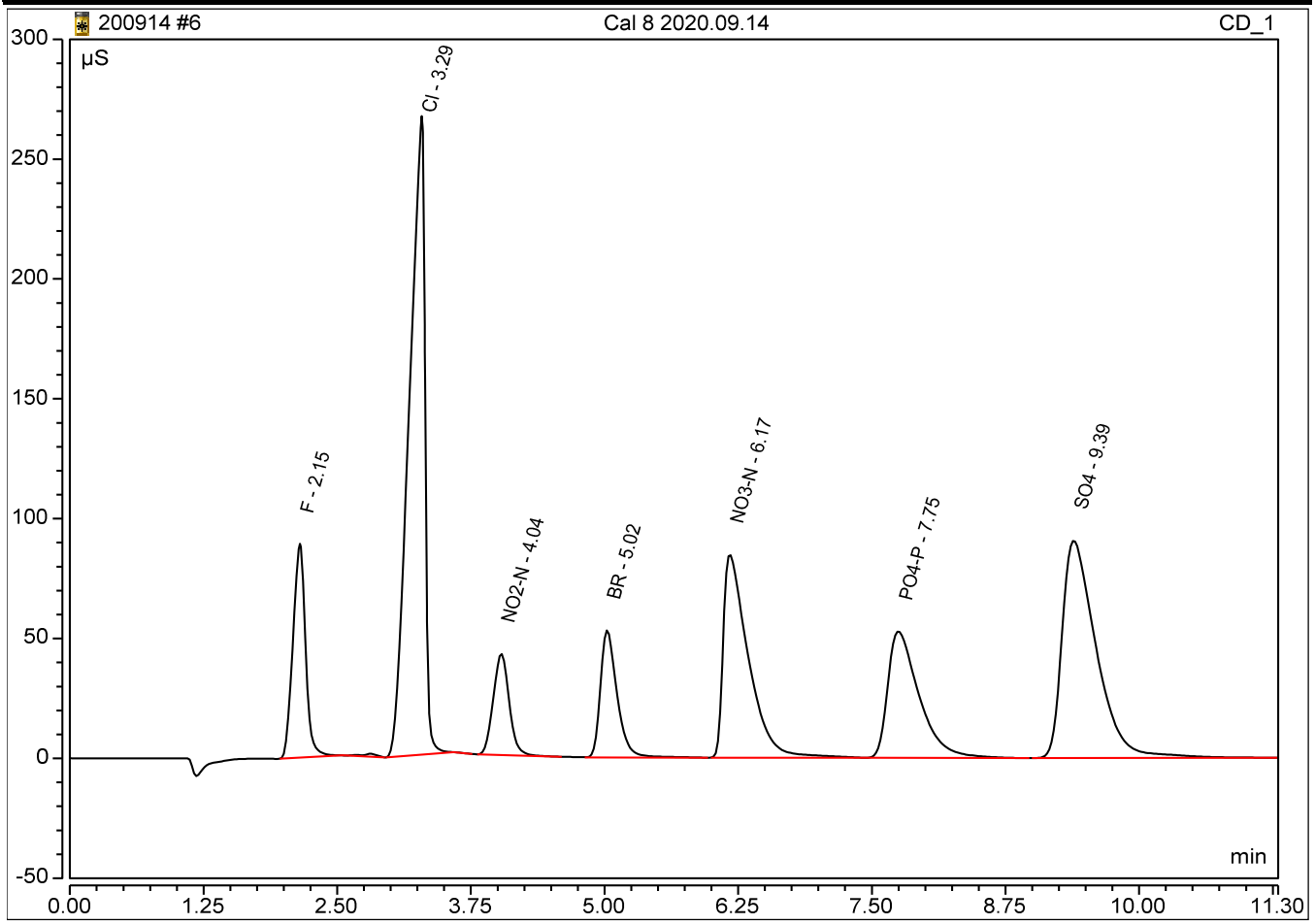


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 8 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 12:59**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.15	**F**	BMB	12.197	89.244	12.31	12.5	98.5%
3	3.29	**Cl**	BMB	45.336	266.470	50.18	50	100.4%
5	4.04	**NO2-N**	BMB	7.309	42.267	4.94	5	98.8%
6	5.02	**BR**	BMB	9.573	52.969	25.21	25	100.8%
7	6.17	**NO3-N**	BMB	23.155	84.819	10.06	10	100.6%
8	7.75	**PO4-P**	BMB	17.895	52.746	25.72	25	102.9%
9	9.39	**SO4**	BMB	33.597	90.716	50.31	50	100.6%

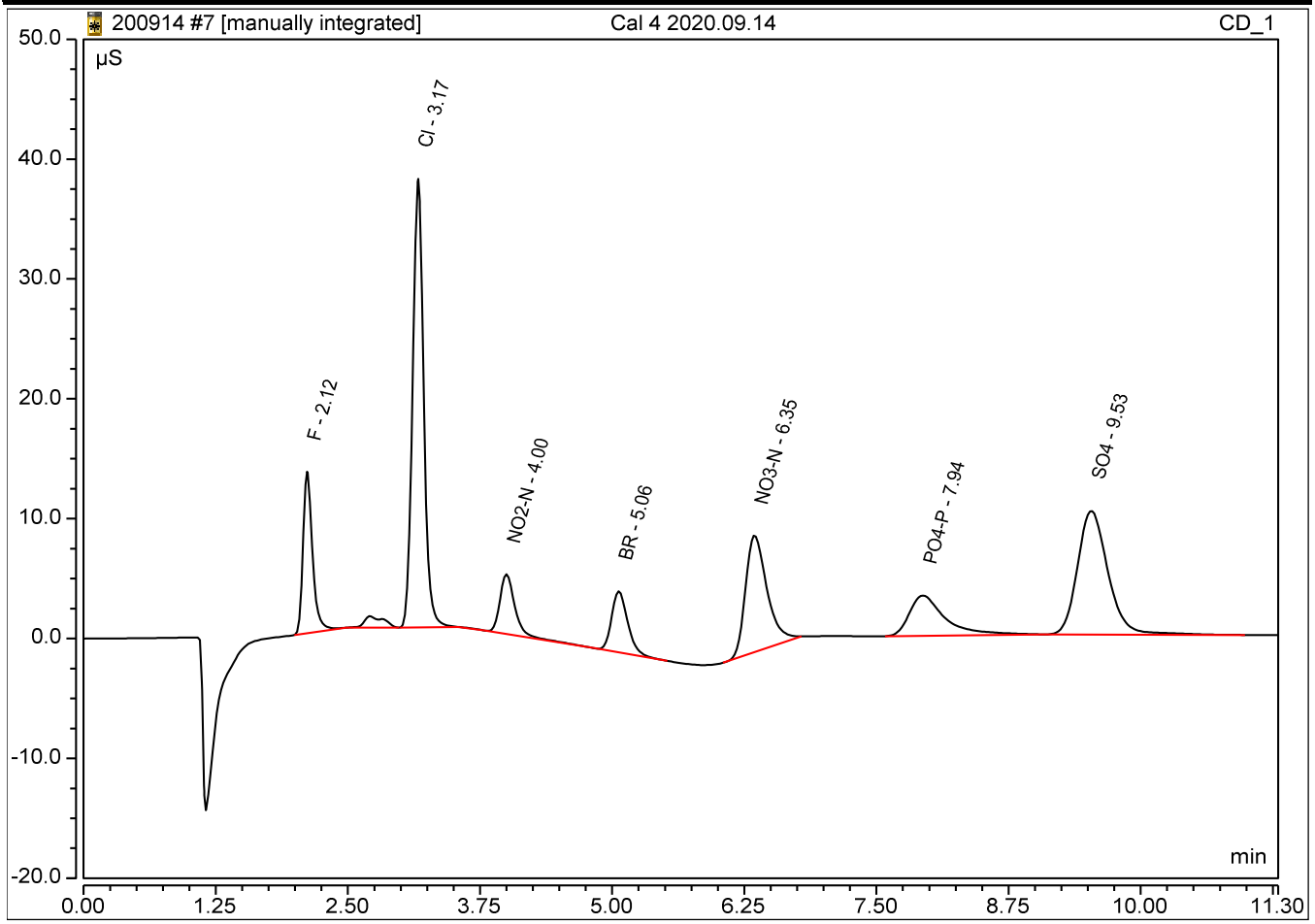


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 4 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 14:59**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.12	**F**	BMB	1.393	13.483	1.27	1.25	101.9%
3	3.17	**Cl**	BMB	4.523	37.438	5.01	5	100.1%
5	4.00	**NO2-N**	BMB	0.825	4.993	0.56	0.5	111.6%
6	5.06	**BR**	BMB	0.902	5.100	2.38	2.5	95.1%
7	6.35	**NO3-N**	BMB*	2.295	9.746	1.00	1	99.7%
8	7.94	**PO4-P**	BMB	1.327	3.365	2.46	2.5	98.2%
9	9.53	**SO4**	BMB	3.455	10.323	5.17	5	103.5%

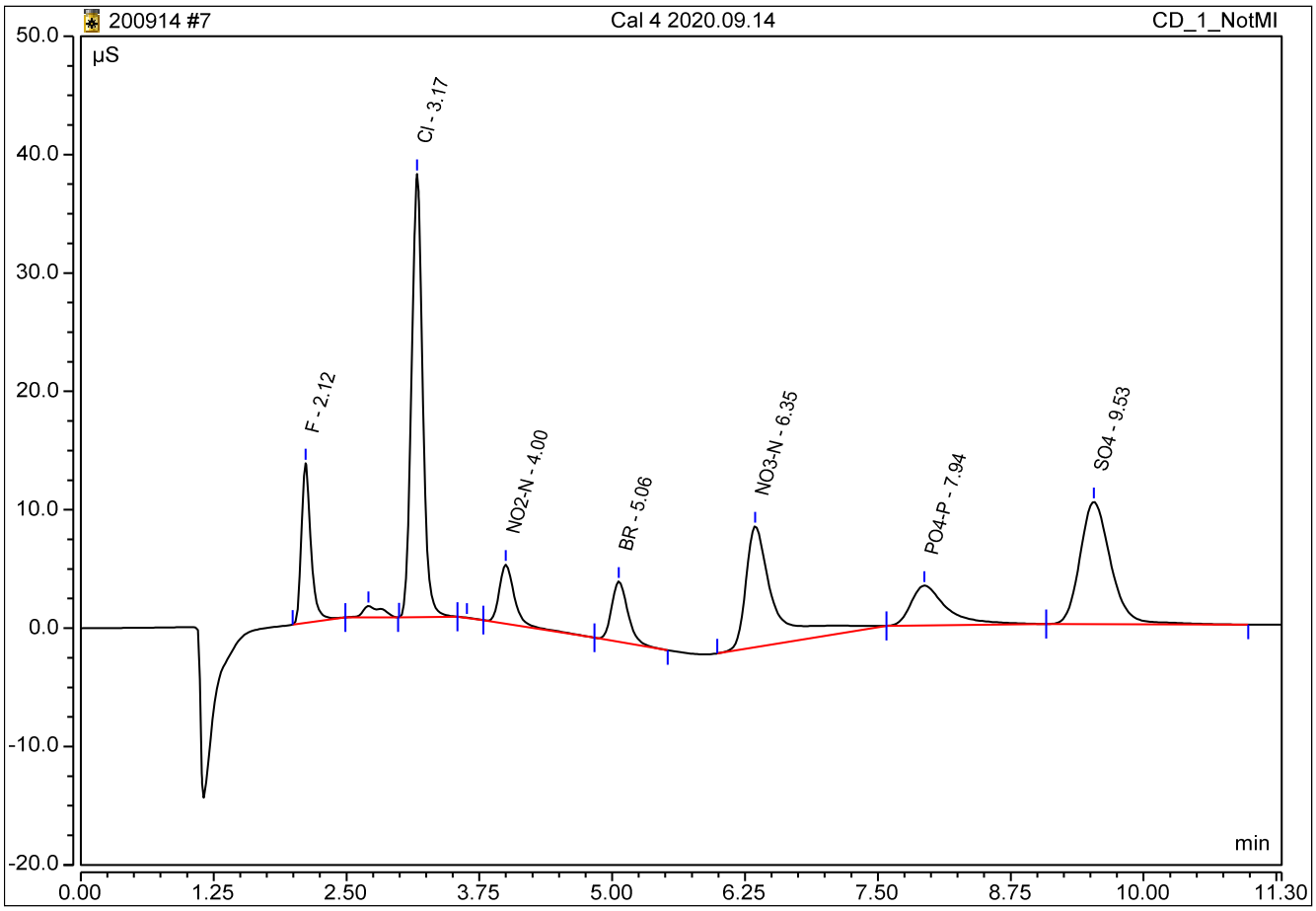


MI 5 NO3 GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**Cal 4 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 14:59**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.12	**F**	BMB	1.393	13.483	1.2743
3	3.17	**Cl**	BMB	4.523	37.438	5.0060
5	4.00	**NO2-N**	BMB	0.825	4.993	0.5579
6	5.06	**BR**	BMB	0.902	5.100	2.3764
7	6.35	**NO3-N**	BMB*	3.185	10.217	1.3799
8	7.94	**PO4-P**	BMB	1.327	3.365	2.4421
9	9.53	**SO4**	BMB	3.455	10.323	5.1723

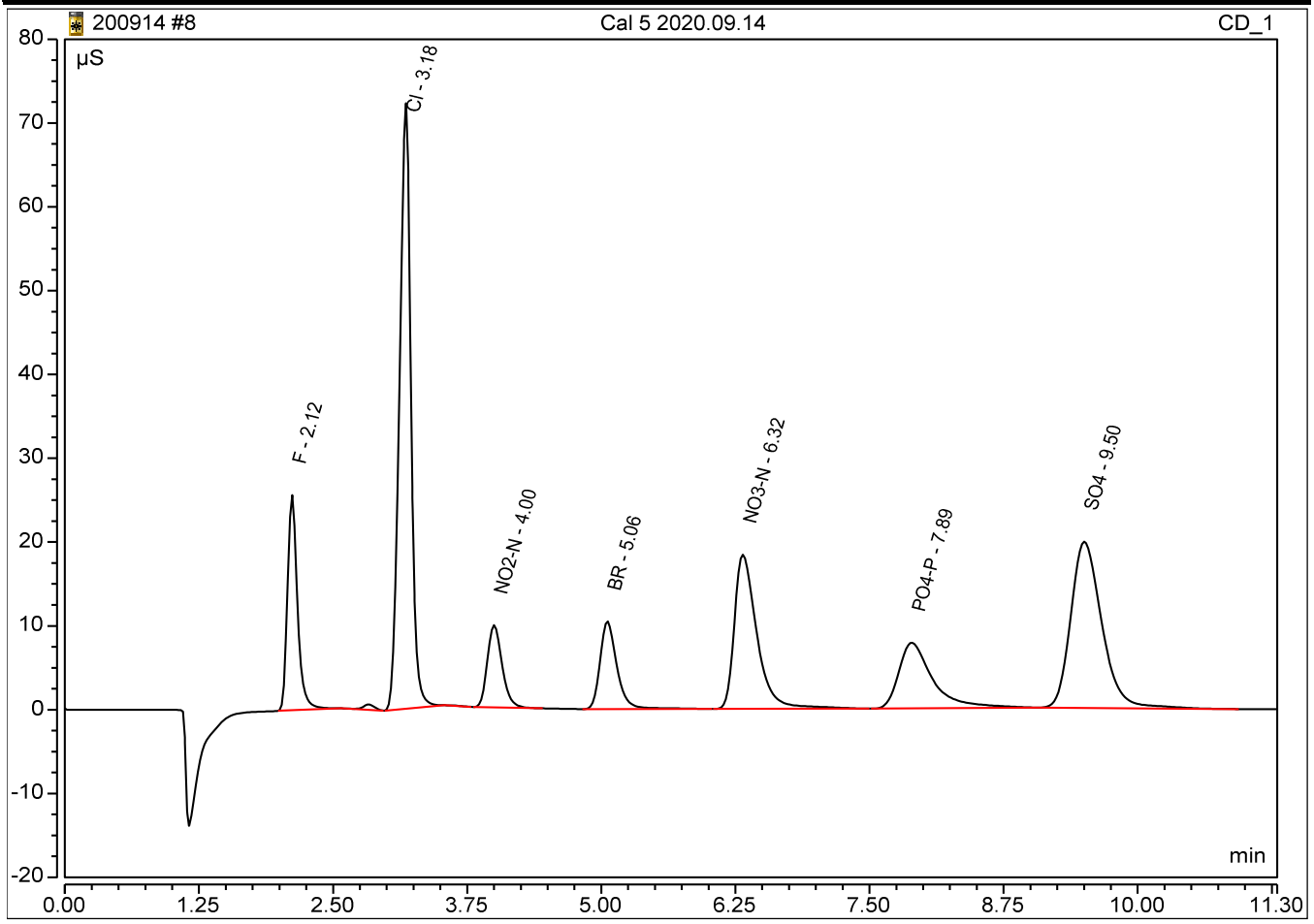


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 5 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:14**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.12	**F**	BMB	2.764	25.690	2.67	2.5	107.0%
3	3.18	**Cl**	BMB	8.950	72.239	9.91	10	99.1%
5	4.00	**NO2-N**	BMB	1.558	9.806	1.05	1	105.3%
6	5.06	**BR**	BMB	1.911	10.461	5.03	5	100.6%
7	6.32	**NO3-N**	BMB	4.496	18.415	1.95	2	97.6%
8	7.89	**PO4-P**	BMB	2.876	7.859	4.63	5	92.6%
9	9.50	**SO4**	BMB	6.650	19.846	9.96	10	99.6%

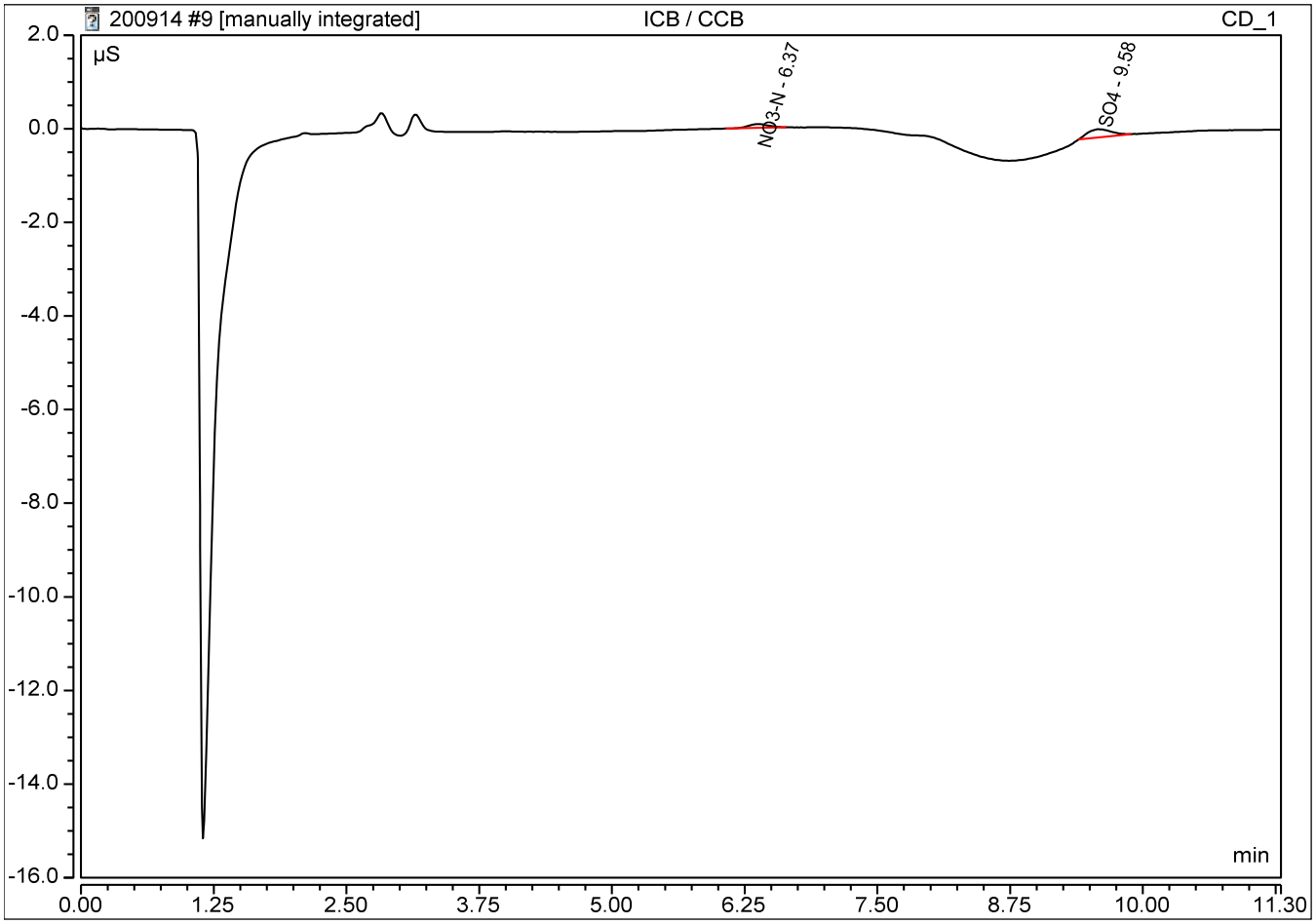


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**ICB / CCB**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:29**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	6.37	**NO3-N**	BMB*	0.017	0.081	0.01		
2	9.58	**SO4**	BMB*	0.046	0.175	0.07		

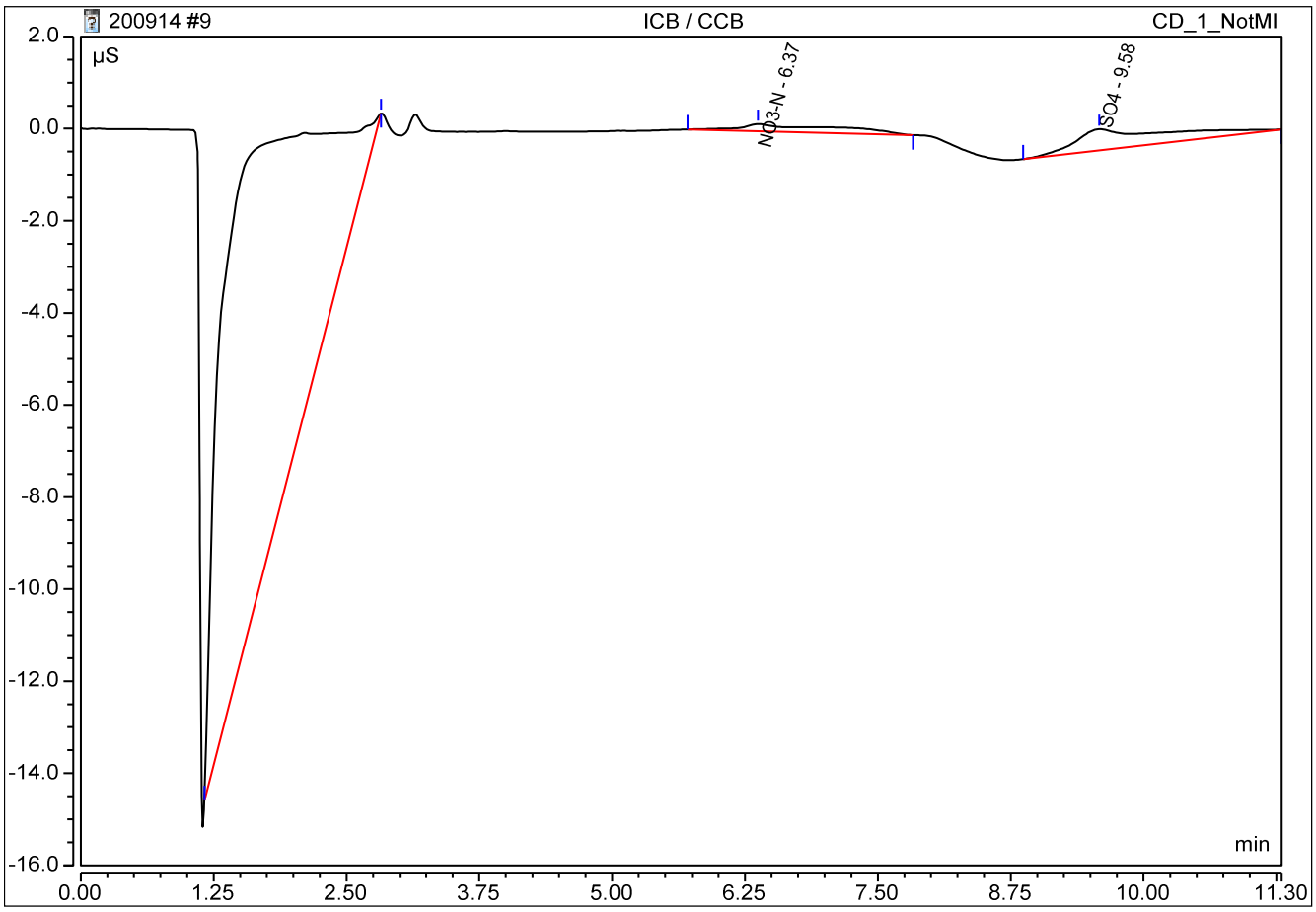


MI 5 F SO4 GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**ICB / CCB**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:29**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	6.37	**NO3-N**	BMB*	0.177	0.155	0.0769
2	9.58	**SO4**	BMB*	0.456	0.464	0.6832

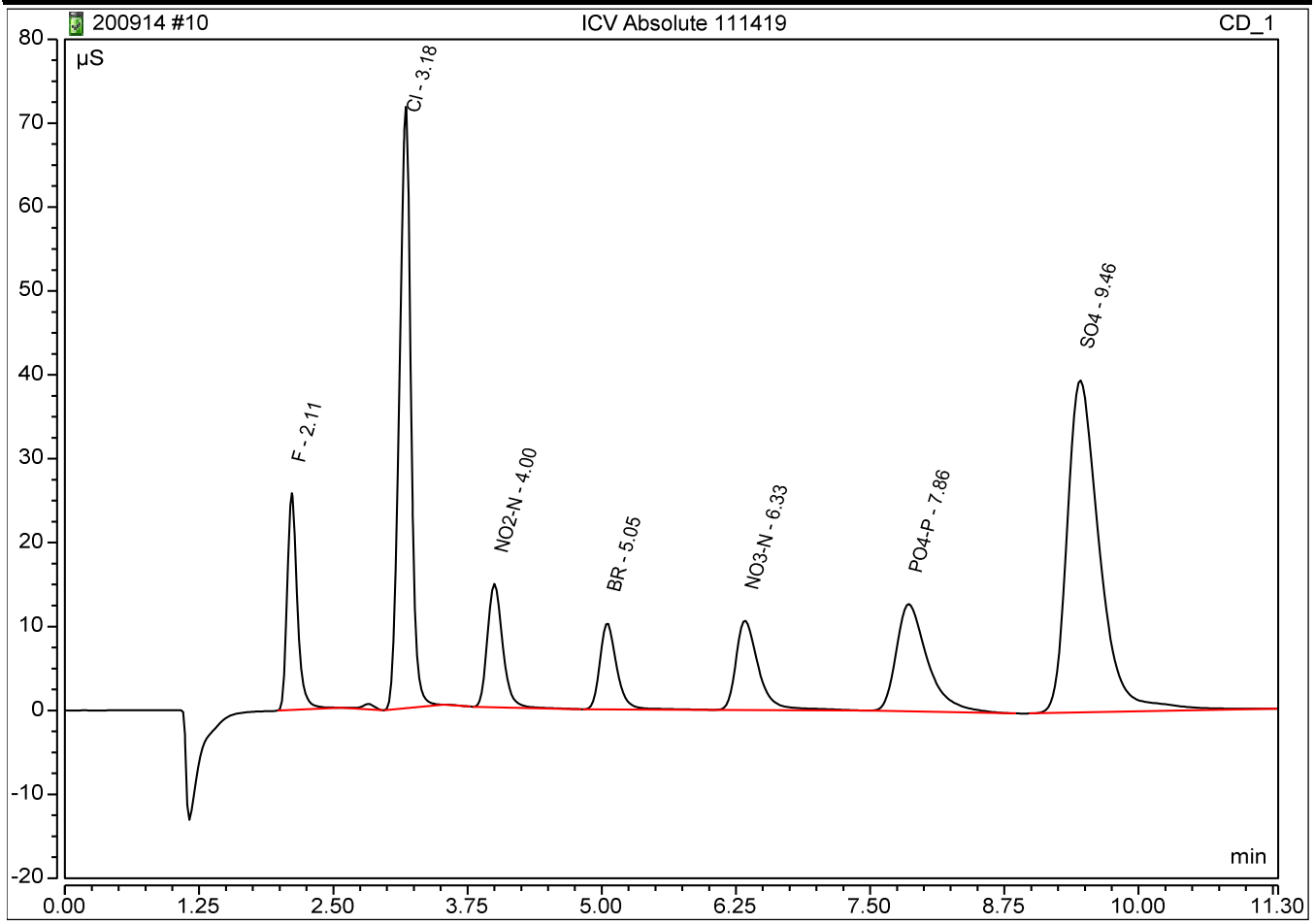


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**ICV Absolute 111419**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:43**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	2.829	25.835	2.74	2.5	109.6%
3	3.18	**Cl**	BMB	8.963	71.696	9.92	10	99.2%
5	4.00	**NO2-N**	BMB	2.425	14.715	1.64	1.522334	107.7%
6	5.05	**BR**	BMB	1.878	10.287	4.95	5	98.9%
7	6.33	**NO3-N**	BMB	2.618	10.656	1.14	1.129525	100.7%
8	7.86	**PO4-P**	BMB	4.336	12.817	6.68	6.522	102.4%
9	9.46	**SO4**	BMB	13.880	39.594	20.79	20	103.9%

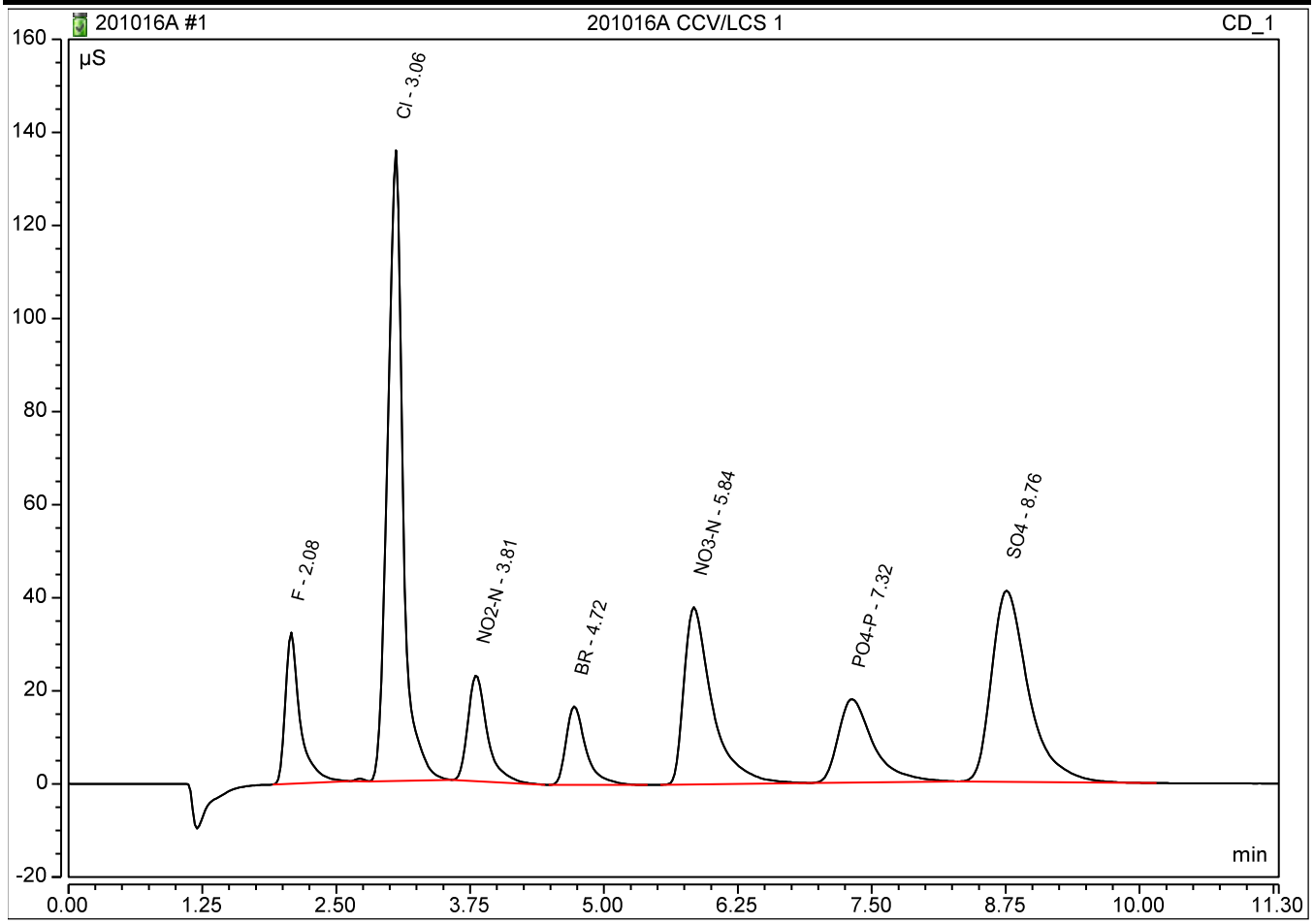


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201016A

Peak Integration Report

Sample Name:	**201016A CCV/LCS 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**16-Oct-2020 / 14:58**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.08	**F**	BMB	5.220	32.501	5.14	5	102.8%
3	3.06	**Cl**	BMB	22.478	135.449	24.41	25	97.6%
4	3.81	**NO2-N**	BMB	4.782	22.770	3.17	3.04	104.3%
5	4.72	**BR**	BMB	3.628	16.857	9.38	10	93.8%
6	5.84	**NO3-N**	BMB	11.636	38.072	4.95	5	99.1%
7	7.32	**PO4-P**	BMB	6.766	17.920	9.69	10	96.9%
8	8.76	**SO4**	BMB	16.374	41.091	24.07	25	96.3%

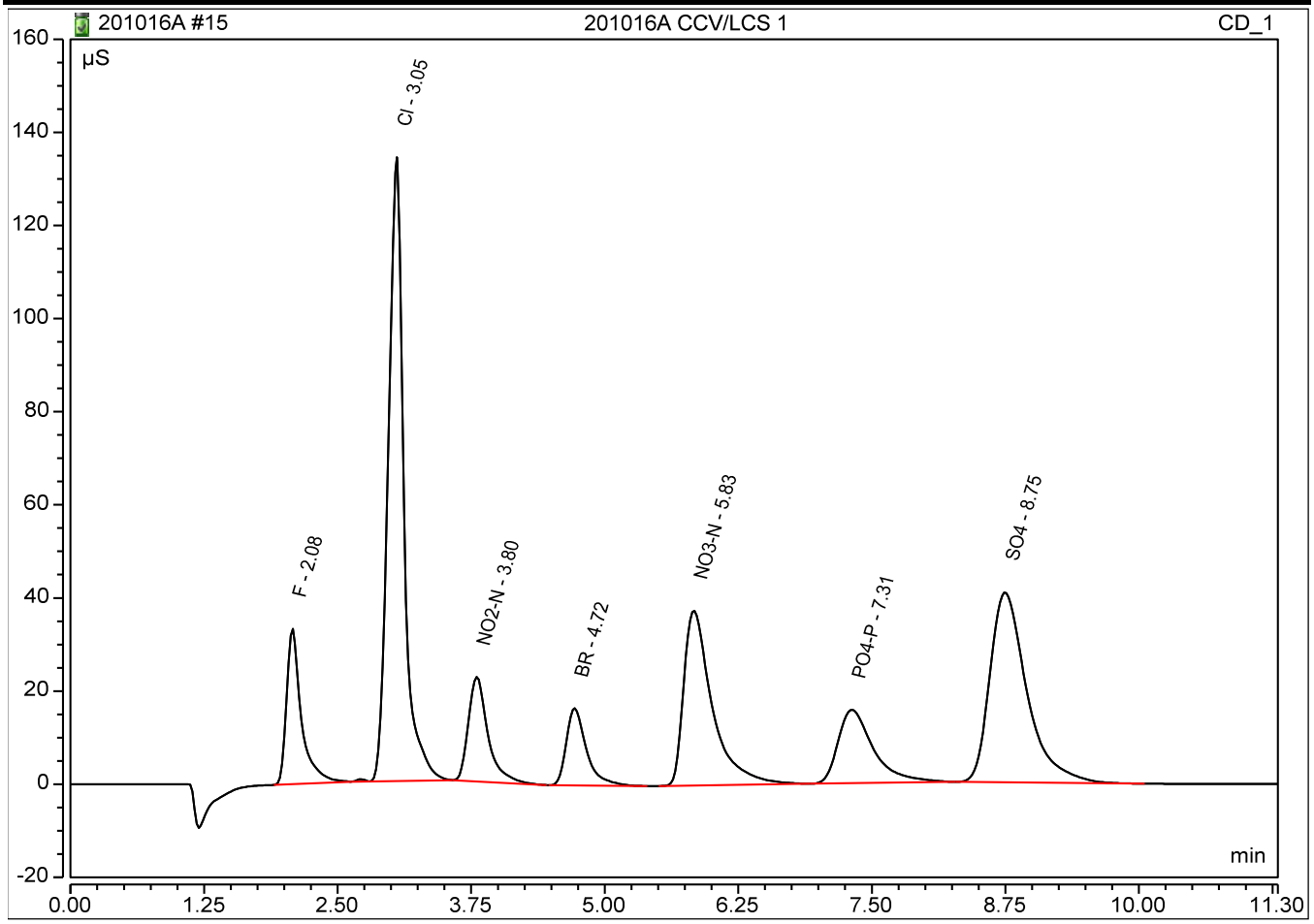


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201016A

Peak Integration Report

Sample Name:	**201016A CCV/LCS 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**16-Oct-2020 / 18:23**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.08	**F**	BMB	5.368	33.461	5.29	5	105.7%
3	3.05	**Cl**	BMB	22.475	133.995	24.41	25	97.6%
4	3.80	**NO2-N**	BMB	4.755	22.447	3.15	3.04	103.8%
5	4.72	**BR**	BMB	3.618	16.608	9.35	10	93.5%
6	5.83	**NO3-N**	BMB	11.654	37.598	4.96	5	99.2%
7	7.31	**PO4-P**	BMB	6.031	15.773	8.64	10	86.4%
8	8.75	**SO4**	BMB	16.353	40.798	24.04	25	96.1%

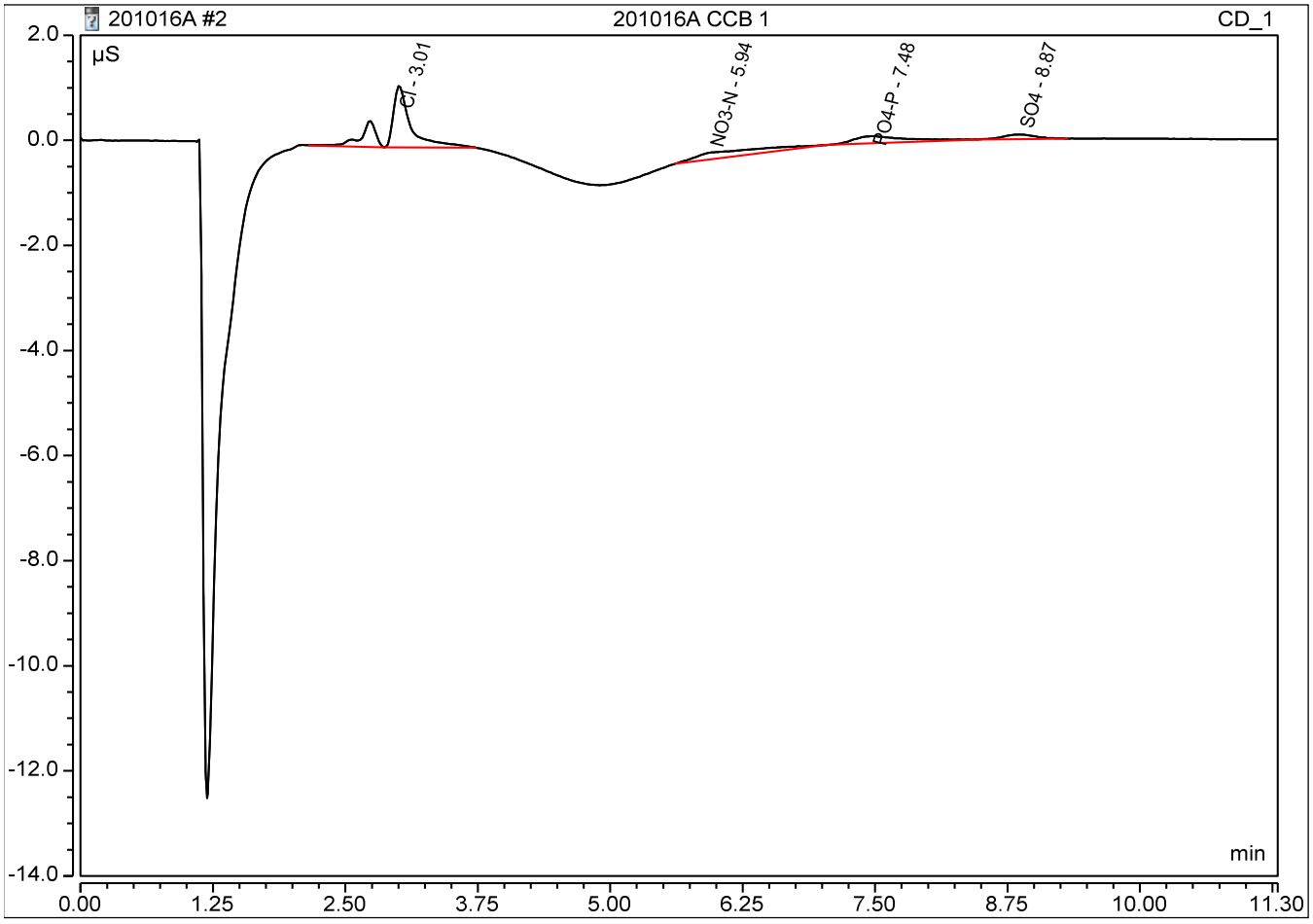


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201016A

Peak Integration Report

Sample Name:	**201016A CCB 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**16-Oct-2020 / 15:12**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	3.01	**Cl**	BMB	0.224	1.176	0.24		
3	5.94	**NO3-N**	BMB	0.103	0.132	0.04		
4	7.48	**PO4-P**	BMB	0.079	0.137	0.11		
5	8.87	**SO4**	BMB	0.031	0.089	0.05		

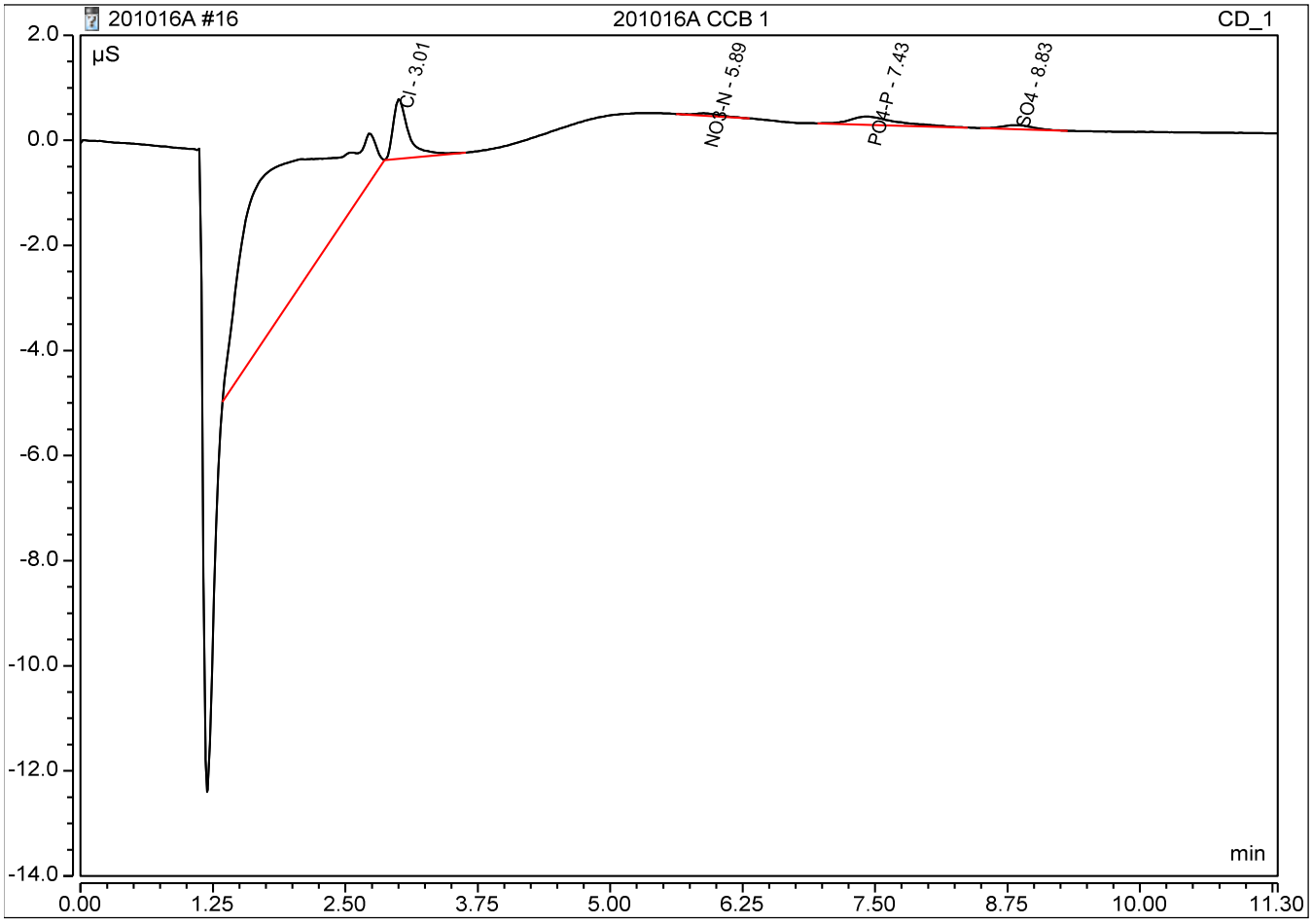


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201016A

Peak Integration Report

Sample Name:	**201016A CCB 1**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**16-Oct-2020 / 18:38**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	3.01	**Cl**	BMB	0.193	1.134	0.21		
3	5.89	**NO3-N**	BMB	0.014	0.047	0.01		
4	7.43	**PO4-P**	BMB	0.082	0.158	0.12		
5	8.83	**SO4**	BMB	0.027	0.079	0.04		



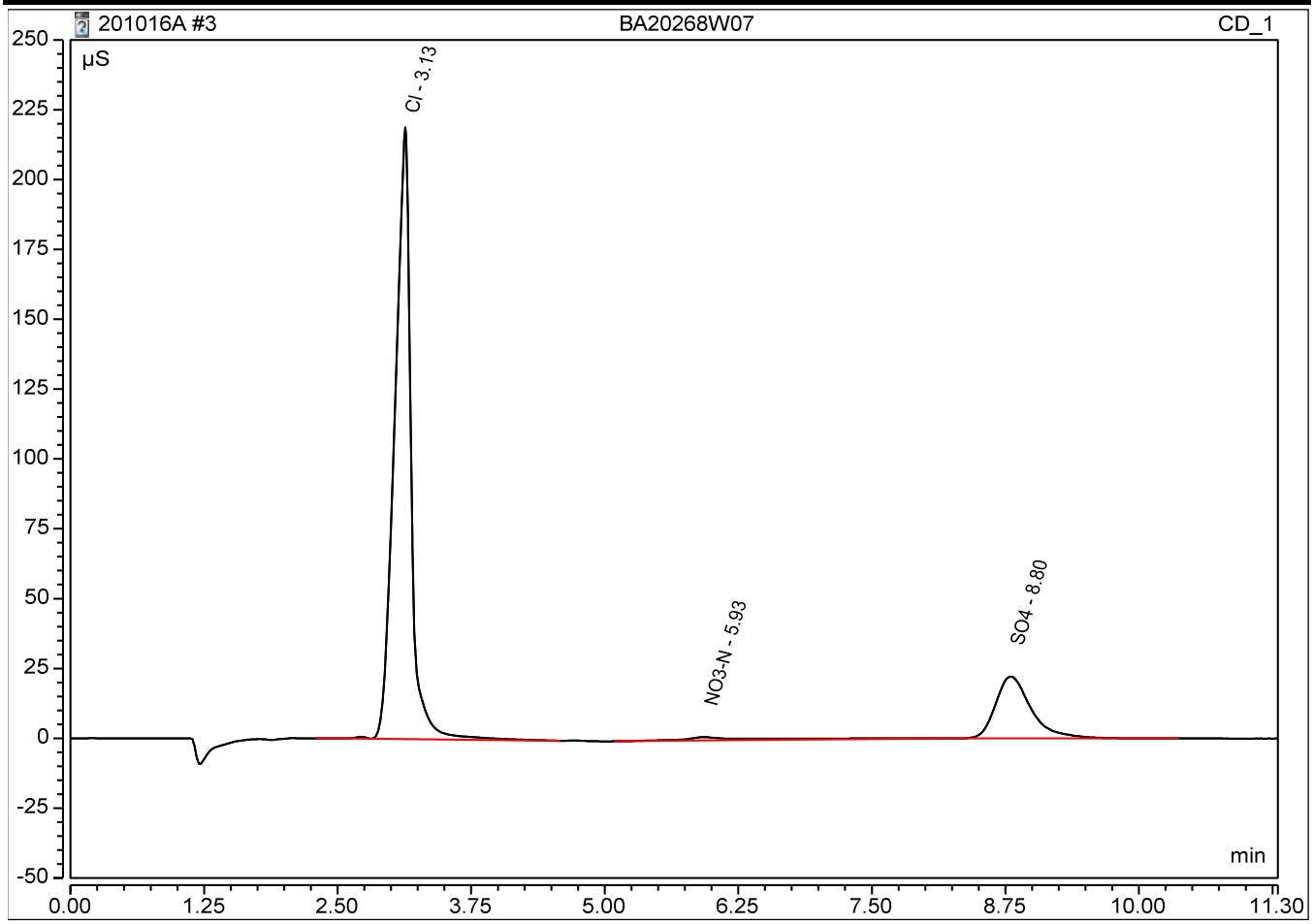
INORGANIC ANALYSIS
Raw Data

Logged on User: GA
Instrument: Charlie System_1
Sequence: 201016A

Peak Integration Report

Sample Name:	**BA20268W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**16-Oct-2020 / 15:27**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	3.13	**Cl**	BMB	38.711	218.889	42.04		
3	5.93	**NO3-N**	BMB	1.098	1.211	0.47		
4	8.80	**SO4**	BMB	8.601	22.194	12.64		



Anion Chromatography Working Standard

Prep Date: 08/25/20

Exp Date: 08/26/20

Prep'd By (Initials): GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H2O	o2si	O2SI-062002-01-01	1000	**687393-38-40744**	**10/30/20**	312.5 µL	25 mL	Millipore Water	12.5
Ion Chromatography Standard Nitrite 1000 µg/mL in H2O	Inorganic Ventures	ICCL1	1000	**P2-CL675597-41353**	**01/15/23**	411 µL	25 mL	Millipore Water	5 as NO2-N
Ion Chromatography Standard Chloride 5000 µg/mL in H2O	Inorganic Ventures	ICNO21	1000	**N2-NOX672889-49601**	**01/30/23**	1250 µL	25 mL	Millipore Water	50
Ortho-Phosphate as P Standard	Agilent	ICC-005A	1000	**G34-CP-3323-49590**	**05/31/25**	625 µL	25 mL	Millipore Water	25
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H2O	Inorganic Ventures	P2-NOX675324	1000	**P2-NOX675324-49391**	**02/14/23**	250 µL	25 mL	Millipore Water	10
Bromide Standard	CPI international	4400-IC8M	1000	**1011817-12-49602**	**06/04/21**	625 µL	25 mL	Millipore Water	25
Sulfate Standard	Inorganic Ventures	ICS041	1000	**P2-SOX677315**	**04/03/23**	1250 µL	25 mL	Millipore Water	50

Anion Chromatography Calibration Curve

Prep Date: 09/14/20

Exp Date: 09/15/20

Prep'd By (Initials): GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. Range (ug/mL)	Reference To APPL Prep Date	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc. Range (µg/mL)
Anion Chromatography Working Standard	Varies	ICal1A	5.0-50.0	Prepared 08/25/20	09/15/20	2 µL	1000 µL	Millipore Water	0.02-0.20
Anion Chromatography Working Standard	Varies	ICal1	5.0-50.0	Prepared 08/25/20	09/15/20	4 µL	1000 µL	Millipore Water	0.04-0.40
Anion Chromatography Working Standard	Varies	ICal2	5.0-50.0	Prepared 08/25/20	09/15/20	20 µL	1000 µL	Millipore Water	0.1-1.0
Anion Chromatography Working Standard	Varies	ICal3	5.0-50.0	Prepared 08/25/20	09/15/20	50 µL	1000 µL	Millipore Water	0.25-2.5
Anion Chromatography Working Standard	Varies	ICal4	5.0-50.0	Prepared 08/25/20	09/15/20	100 µL	1000 µL	Millipore Water	0.5-5.0
Anion Chromatography Working Standard	Varies	ICal5	5.0-50.0	Prepared 08/25/20	09/15/20	200 µL	1000 µL	Millipore Water	1.0-10.0
Anion Chromatography Working Standard	Varies	ICal6	5.0-50.0	Prepared 08/25/20	09/15/20	500 µL	1000 µL	Millipore Water	2.5-25.0
Anion Chromatography Working Standard	Varies	ICal7	5.0-50.0	Prepared 08/25/20	09/15/20	700 µL	1000 µL	Millipore Water	3.5-35.0
Anion Chromatography Working Standard	Varies	ICal8	5.0-50.0	Prepared 08/25/20	09/15/20	1000 µL	1000 µL	Millipore Water	5.0-50.0

Anion Chromatography ICV Absolute COA 49866

Prep Date: See injection Log

Exp Date: 24 hours after prep

Prep'd By (Initials): Absolute

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Flouride	Absolute	50021	2.5	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	2.5
Nitrite	Absolute	50021	1.522334	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	1.522334
Chloride	Absolute	50021	1.522334	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	1.522334
O-Phosphate as P	Absolute	50021	6.522	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	6.522
Nitrate as N	Absolute	50021	1.129525	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	1.129525
Ion Chromatography Standard Bromide, 1000 µg/mL in H2O	Absolute	50021	5	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	5
Sulfate	Absolute	50021	20	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	20

Anion Chromatography CCV / LCS

Prep Date: See injection Log

Exp Date: 24 hours after prep

Prep'd By (Initials): GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H2O	o2si	O2SI-062002-01-01	1000	**687393-38-40744**	**10/30/20**	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Nitrite 1000 µg/mL in H2O	Inorganic Ventures	ICCL1	1000	**P2-CL675597-41353**	**01/15/23**	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Chloride 5000 µg/mL in H2O	Inorganic Ventures	ICNO21	1000	**N2-NOX672889-49601**	**01/30/23**	125 µL	25 mL	Millipore Water	25
Ortho-Phosphate as P Standard	Agilent	ICC-005A	1000	**G34-CP-3323-49590**	**05/31/25**	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H2O	Inorganic Ventures	P2-NOX675324	1000	**P2-NOX675324-49391**	**02/14/23**	125 µL	25 mL	Millipore Water	5
Bromide Standard	CPI international	4400-IC8M	1000	**1011817-12-49602**	**06/04/21**	250 µL	25 mL	Millipore Water	10
Sulfate Standard	Inorganic Ventures	ICS041	1000	**P2-SOX677315**	**04/03/23**	625 µL	25 mL	Millipore Water	25

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time		Type	Comment
1	BC1	Cal 1 2020.09.14	14/Sep/2020	11:17	Calibration Standard	
2	BC2	Cal 2 2020.09.14	14/Sep/2020	11:31	Calibration Standard	
3	BC3	Cal 3 2020.09.14	14/Sep/2020	11:46	Calibration Standard	
4	BC6	Cal 6 2020.09.14	14/Sep/2020	12:30	Calibration Standard	
5	BC7	Cal 7 2020.09.14	14/Sep/2020	12:44	Calibration Standard	
6	BC8	Cal 8 2020.09.14	14/Sep/2020	12:59	Calibration Standard	
7	BC4	Cal 4 2020.09.14	14/Sep/2020	14:59	Calibration Standard	
8	BC5	Cal 5 2020.09.14	14/Sep/2020	15:14	Calibration Standard	
9	R1	ICB / CCB	14/Sep/2020	15:29	Unknown	
10	BD1	ICV Absolute 111419	14/Sep/2020	15:43	Check Standard	

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time		Type	Comment
1	R2	201016A CCV/LCS 1	16/Oct/2020	14:58	Check Standard	
2	R1	201016A CCB 1	16/Oct/2020	15:12	Unknown	
3	GC2	BA20268W07	16/Oct/2020	15:27	Unknown	ERH 1183 ARF 93765
4	GC3	BA20429W01	16/Oct/2020	15:42	Unknown	Domestic ARF 93775
5	GC4	BA20439W01	16/Oct/2020	15:56	Unknown	Sample 1 ARF 93771
6	GC5	BA19470W10	16/Oct/2020	16:11	Unknown	
7	GC6	BA19471W16	16/Oct/2020	16:26	Unknown	
8	GC7	BA19471W16 MS	16/Oct/2020	16:40	Unknown	
9	GC8	BA19471W16 MSD	16/Oct/2020	16:55	Unknown	
10	GD1	BA19477W10	16/Oct/2020	17:10	Unknown	
11	GD2	BA19483W09	16/Oct/2020	17:24	Unknown	
12	GD3	BA19781W09 DF20	16/Oct/2020	17:39	Unknown	
13	GD4	BA19782W12 DF20	16/Oct/2020	17:54	Unknown	
14	GD5	BA19783W09	16/Oct/2020	18:08	Unknown	
15	R2	201016A CCV/LCS 2	16/Oct/2020	18:23	Check Standard	
16	R1	201016A CCB 2	16/Oct/2020	18:38	Unknown	
17	GD6	BA19784W09 DF20	16/Oct/2020	18:52	Unknown	
18	GD7	BA19786W26	16/Oct/2020	19:07	Unknown	
19	GD8	BA19786W26 MS	16/Oct/2020	19:22	Unknown	
20	GE1	BA19786W26 MSD	16/Oct/2020	19:36	Unknown	
21	GE2	BA19787W09	16/Oct/2020	19:51	Unknown	
22	GE3	BA19788W09 DF20	16/Oct/2020	20:05	Unknown	
23	GE4	BA19790W07	16/Oct/2020	20:20	Unknown	
24	GE5	BA19818W06	16/Oct/2020	20:35	Unknown	
25	GE6	BA19452W28 DF20 MS	16/Oct/2020	20:49	Unknown	
26	GE7	BA19452W28 DF20 MSD	16/Oct/2020	21:04	Unknown	
27	R2	201016A CCV/LCS 3	16/Oct/2020	21:19	Check Standard	
28	R1	201016A CCB 3	16/Oct/2020	21:33	Unknown	
29	GE8	stop	16/Oct/2020	21:45	Unknown	

INORGANIC ANALYSIS
Calibration and Raw Data

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM
ARF No: 93765 SDG: 93765
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 10/16/20

Analyte	Calibration Verification									M
	True CCV1	Found 16:14	%R(1)	True ICV	Found 16:18	%R(1)	True CCV1	Found 16:41	%R(1)	
TOXN	3	2.7956	93.2	3	2.8868	96.2	3	2.8245	94.2	

(1) Control Limits: 90-110

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM
ARF No: 93765 SDG: 93765
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 10/16/20

Analyte	Calibration Verification									M
	True CCV1	Found 17:04	%R(1)	True CCV1	Found 17:09	%R(1)	True CCV1	Found 17:31	%R(1)	
TOXN	3	2.9639	98.8	3	3.0374	101	3	3.0746	102	

(1) Control Limits: 90-110

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM
ARF No: 93765 SDG: 93765
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 10/16/20

Analyte	Calibration Verification									M
	True CCV1	Found 17:36	%R(1)	True	Found	%R(1)	True	Found	%R(1)	
TOXN	3	2.9467	98.2							

(1) Control Limits: 90-110

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No.: 93765 SDG: 93765

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	CCB 10/16/20 16:16	C	ICB 10/16/20 16:21	C	CCB 10/16/20 16:43	C	CCB 10/16/20 17:05	C	CCB 10/16/20 17:10	C	
TOXN	.100	U	.100	U	.100	U	.100	U	.1000	U	

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No.: 93765 SDG: 93765

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	CCB 10/16/20 17:32	C	CCB 10/16/20 17:37	C		C		C		C	
TOXN	.100	U	.100	U							

AQ2 Tray Report

Serial Number:	190170
Software Version:	2.1.0
Report Requested By:	Kyle S
Date & Time:	2020-10-21 16:36:03
Tray Number:	3
Tray Name:	201015A NO2 NO3 TOXN

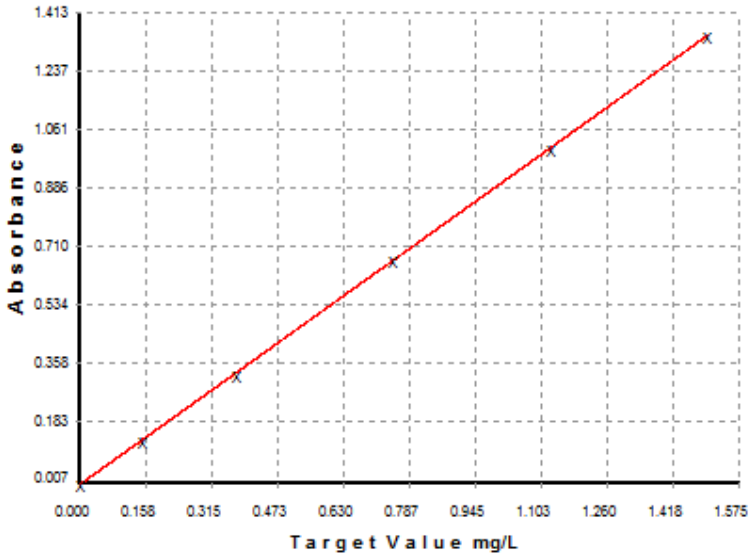
Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0070	0.0032	0.0000	
S90	0.1361	0.1476	0.1500	-1.57
S91	0.3368	0.3722	0.3750	-0.75
S92	0.6773	0.7532	0.7500	0.42
S93	1.0077	1.1229	1.1250	-0.19
S94	1.3456	1.5009	1.5000	0.06
S0	0.0208	0.0186	0.0000	

Polynomial Order:	1
Correlation Coefficient:	1.0000
Carryover(%):	1.0
Calibration equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured absorbance
a =:	-4.642827E-003
b =:	1.118917E+000
Date & Time:	2020-10-16 15:19:05

Calibration Graph



Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
	S1	Standard 1	0.0070			0.006976			KS	2020-10-16 15:11:44
	S90	Standard 90	0.1361			0.136105			KS	2020-10-16 15:12:57
	S91	Standard 91	0.3368			0.336797			KS	2020-10-16 15:14:10
	S92	Standard 92	0.6773			0.677272			KS	2020-10-16 15:15:24
	S93	Standard 93	1.0077			1.007682			KS	2020-10-16 15:16:37
	S94	Standard 94	1.3456			1.345578			KS	2020-10-16 15:17:51
	S0	Standard 0	0.0208			0.020768			KS	2020-10-16 15:19:05
	CCV	CCV .75	0.7490	mg/L		0.673564			KS	2020-10-16 15:20:18
	CCB	CCB	0.0100	mg/L		0.013049			KS	2020-10-16 15:21:33
3	U1	ICV NO2	0.7450	mg/L		0.670006			KS	2020-10-16 15:22:47
4	U2	ICV NO3 TOXN	0.0103	mg/L		0.013322			KS	2020-10-16 15:24:01
5	U3	ICB NO2 NO3 TOXN	0.0034	mg/L		0.007181			KS	2020-10-16 15:25:14
6	U4	201016A Blk NO2 NO3 TOXN	0.0040	mg/L		0.007720			KS	2020-10-16 15:26:29
7	U5	201016A LCS NO2	0.7434	mg/L		0.668531			KS	2020-10-16 15:27:42
8	U6	201016A LCS NO3 TOXN	0.0107	mg/L		0.013700			KS	2020-10-16 15:28:56
9	U7	201016A LCSD NO3 TOXN	0.0037	mg/L		0.007451			KS	2020-10-16 15:30:09
10	U8	1 PPM NO2	1.0179	mg/L		0.913842			KS	2020-10-16 15:31:22
11	U9	1 PPM NO3	0.0131	mg/L		0.015829			KS	2020-10-16 15:32:35
24	U22	BA20476W12	0.0034	mg/L		0.007168			KS	2020-10-16 15:33:50
	CCV	CCV .75	0.7666	mg/L		0.689268			KS	2020-10-16 15:34:29
	CCB	CCB	0.0100	mg/L		0.013127			KS	2020-10-16 15:36:39
25	U23	BA20477W12	0.0045	mg/L		0.008171			KS	2020-10-16 15:38:53
26	U24	BA20478W36	0.0035	mg/L		0.007296			KS	2020-10-16 15:41:10
27	U25	BA20478W36 MS	0.7216	mg/L		0.649022			KS	2020-10-16 15:43:28

28	U26	BA20478W36 MSD	0.7417	mg/L	0.667004		KS	2020-10-16 15:45:45
	CCV	CCV .75	0.7389	mg/L	0.664489		KS	2020-10-16 15:48:03
	CCB	CCB	0.0109	mg/L	0.013895		KS	2020-10-16 15:50:16

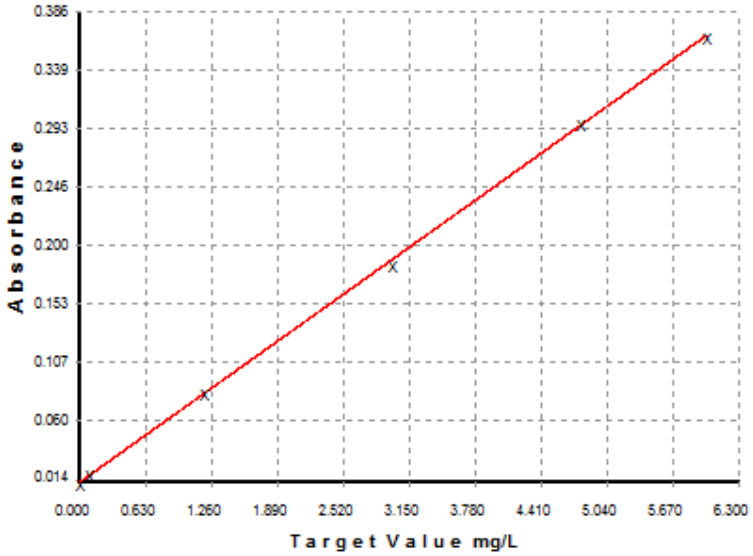
TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0138	-0.0077	0.0000	
S90	0.0216	0.1252	0.1000	25.16
S91	0.0853	1.2061	1.2000	0.51
S92	0.1875	2.9414	3.0000	-1.95
S93	0.2991	4.8366	4.8000	0.76
S94	0.3675	5.9983	6.0000	-0.03
S0	0.0148	0.0109	0.0000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	0.3
Calibration equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured absorbance
a =:	-2.411511E-001
b =:	1.697678E+001
Date & Time:	2020-10-16 16:12:12

Calibration Graph



Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
	S1	Standard 1	0.0138			0.013752			KS	2020-10-16 15:59:03
	S90	Standard 90	0.0216			0.021577			KS	2020-10-16 16:01:14
	S91	Standard 91	0.0853			0.085252			KS	2020-10-16 16:03:26
	S92	Standard 92	0.1875			0.187465			KS	2020-10-16 16:05:37
	S93	Standard 93	0.2991			0.299102			KS	2020-10-16 16:07:49
	S94	Standard 94	0.3675			0.367531			KS	2020-10-16 16:10:01
	S0	Standard 0	0.0148			0.014848			KS	2020-10-16 16:12:12
	CCV	CCV	2.7956	mg/L		0.178878			KS	2020-10-16 16:14:24
	CCB	CCB	0.0056	mg/L		0.014535			KS	2020-10-16 16:16:36
4	U2	ICV NO3 TOXN	2.8868	mg/L		0.184249			KS	2020-10-16 16:18:48
5	U3	ICB NO2 NO3 TOXN	0.0158	mg/L		0.015136			KS	2020-10-16 16:21:00
6	U4	201016A Blk NO2 NO3 TOXN	-0.0243ELL	mg/L		0.012776			KS	2020-10-16 16:23:13
8	U6	201016A LCS NO3 TOXN	3.0267	mg/L		0.192491			KS	2020-10-16 16:25:25
9	U7	201016A LCSD NO3 TOXN	2.9921	mg/L		0.190450			KS	2020-10-16 16:27:37
11	U9	1 PPM NO3	0.9674	mg/L		0.071191			KS	2020-10-16 16:29:49
12	U10	BA20054W08 pH 8.57	0.5712	mg/L		0.047849			KS	2020-10-16 16:32:07
13	U11	BA20057W08 pH 7.99	-0.0126ELL	mg/L		0.013465			KS	2020-10-16 16:34:25
14	U12	BA20060W08 pH 6.11	1.4655	mg/L		0.100530			KS	2020-10-16 16:36:44
15	U13	BA20062W08 pH 7.05	0.5237	mg/L		0.045052			KS	2020-10-16 16:39:02
	CCV	CCV	2.8245	mg/L		0.180578			KS	2020-10-16 16:41:21
	CCB	CCB	0.0058	mg/L		0.014548			KS	2020-10-16 16:43:40
16	U14	BA20064W08 pH 5.36	1.2706	mg/L		0.089048			KS	2020-10-16 16:46:00
17	U15	BA20131W01 pH 6.10	2.5596	mg/L		0.164977			KS	2020-10-16 16:48:18
18	U16	BA20133W01 pH 5.24	21.9190	mg/L		0.143316	x10.0000		KS	2020-10-16 17:33:21
18	U16	BA20133W01 pH 5.24	23.2267	mg/L		1.382351			KS	2020-10-16 16:50:38
19	U17	BA20184W08 pH 6.36	0.8601	mg/L		0.064870			KS	2020-10-16 16:52:56
20	U18	BA20186W08 pH 5.95	1.2838	mg/L		0.089824			KS	2020-10-16 16:55:15
21	U19	BA20188W08 pH 7.32	0.3959	mg/L		0.037526			KS	2020-10-16 16:57:34
22	U20	BA20190W08 pH 8.03	1.8641	mg/L		0.124010			KS	2020-10-16 16:59:52
23	U21	BA20268W08 pH 6.38	0.2279	mg/L		0.027631			KS	2020-10-16 17:02:12
24	U22	BA20476W12	4.7164	mg/L		0.292020			KS	2020-10-16 17:02:51
25	U23	BA20477W12	4.8499	mg/L		0.299882			KS	2020-10-16 17:03:56
	CCV	CCV	2.9639	mg/L		0.188789			KS	2020-10-16 17:04:52
	CCB	CCB	-0.0028	mg/L		0.014039			KS	2020-10-16 17:05:49
26	U24	BA20478W36	4.5729	mg/L		0.283569			KS	2020-10-16 17:06:47
27	U25	BA20478W36 MS	8.5765	mg/L		0.064724	x10.0000		KS	2020-10-16 17:34:17
27	U25	BA20478W36 MS	8.2622	mg/L		0.500880			KS	2020-10-16 17:07:43
28	U26	BA20478W36 MSD	8.5093	mg/L		0.064328	x10.0000		KS	2020-10-16 17:35:14
28	U26	BA20478W36 MSD	8.2703	mg/L		0.501361			KS	2020-10-16 17:08:39
	CCV	CCV	3.0374	mg/L		0.193121			KS	2020-10-16 17:09:36

CCB	CCB	0.0012	mg/L	0.014274	KS	2020-10-16 17:10:33
CCV	CCV	3.0746	mg/L	0.195313		2020-10-16 17:31:26
CCB	CCB	0.0045	mg/L	0.014469		2020-10-16 17:32:24
CCV	CCV	2.9467	mg/L	0.187776		2020-10-16 17:36:10
CCB	CCB	-0.0070	mg/L	0.013791		2020-10-16 17:37:08

Nitrate-N

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
4	U2	ICV NO3 TOXN	2.8765	mg/L		0.000000			KS	2020-10-16 16:18:48
4	U2	ICV NO3 TOXN				0.000000			KS	2020-10-16 16:18:48
5	U3	ICB NO2 NO3 TOXN	0.0124	mg/L		0.000000			KS	2020-10-16 16:21:00
5	U3	ICB NO2 NO3 TOXN				0.000000			KS	2020-10-16 16:21:00
6	U4	201016A Blk NO2 NO3 TOXN	-0.0283	mg/L		0.000000			KS	2020-10-16 16:23:13
6	U4	201016A Blk NO2 NO3 TOXN				0.000000			KS	2020-10-16 16:23:13
8	U6	201016A LCS NO3 TOXN	3.0160	mg/L		0.000000			KS	2020-10-16 16:25:25
8	U6	201016A LCS NO3 TOXN				0.000000			KS	2020-10-16 16:25:25
9	U7	201016A LCSD NO3 TOXN	2.9884	mg/L		0.000000			KS	2020-10-16 16:27:37
9	U7	201016A LCSD NO3 TOXN				0.000000			KS	2020-10-16 16:27:37
11	U9	1 PPM NO3	0.9544	mg/L		0.000000			KS	2020-10-16 16:29:49
11	U9	1 PPM NO3				0.000000			KS	2020-10-16 16:29:49
24	U22	BA20476W12	4.7130	mg/L		0.000000			KS	2020-10-16 17:02:51
24	U22	BA20476W12				0.000000			KS	2020-10-16 17:02:51
25	U23	BA20477W12	4.8454	mg/L		0.000000			KS	2020-10-16 17:03:56
25	U23	BA20477W12				0.000000			KS	2020-10-16 17:03:56
26	U24	BA20478W36	4.5694	mg/L		0.000000			KS	2020-10-16 17:06:47
26	U24	BA20478W36				0.000000			KS	2020-10-16 17:06:47
27	U25	BA20478W36 MS	7.8549	mg/L		0.000000			KS	2020-10-16 17:34:17
27	U25	BA20478W36 MS				0.000000			KS	2020-10-16 17:34:17
28	U26	BA20478W36 MSD	7.7677	mg/L		0.000000			KS	2020-10-16 17:35:14
28	U26	BA20478W36 MSD				0.000000			KS	2020-10-16 17:35:14

Nitrite

High Point @ 1.5 mg/L
0.2463 mL NO2 Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

CCV @ 0.75 mg/L
0.1232 mL NO2 Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

ICV/LCS @ 0.73 mg/L
0.120 mL NO2 Inorganic Ventures lot M2-NOX660562-40468 exp: 08/25/21
50 mL DI Water

1 mg/L NO2
400 uL of High point and 200 uL of DI made directly into a sample cup

Prep 10/15/20
Exp 10/29/20
ERR

Nitrate/TOXN

High Point @ 6 mg/L
0.300 mL NO3 O2Si lot 880117-4-39577 exp: 2/21/20
50 mL DI Water

CCV @ 3.0 mg/L
0.150 mL NO3 O2Si lot 880117-4-39577 exp: 2/21/20
50 mL DI Water

ICV/LCS @ 3.0 mg/L
0.150 mL NO3 Inorganic Ventures lot P2-NOX675324-49391 exp: 02/14/23
50 mL DI Water

1 mg/L NO3
100 uL of High point and 500 uLof DI made directly into a sample cup

MS @ 0.73 mg/L NO2 and 2.5 mg/L NO3
0.120 mL NO2 Inorganic Ventures lot M2-NOX660562-40468 exp: 08/25/21and
0.125 mL NO3 Inorganic Ventures lot P2-NOX675324-49391 exp: 02/14/23
Final volume 50 mL of sample

Prep 10/15/20
Exp 10/29/20
ERR

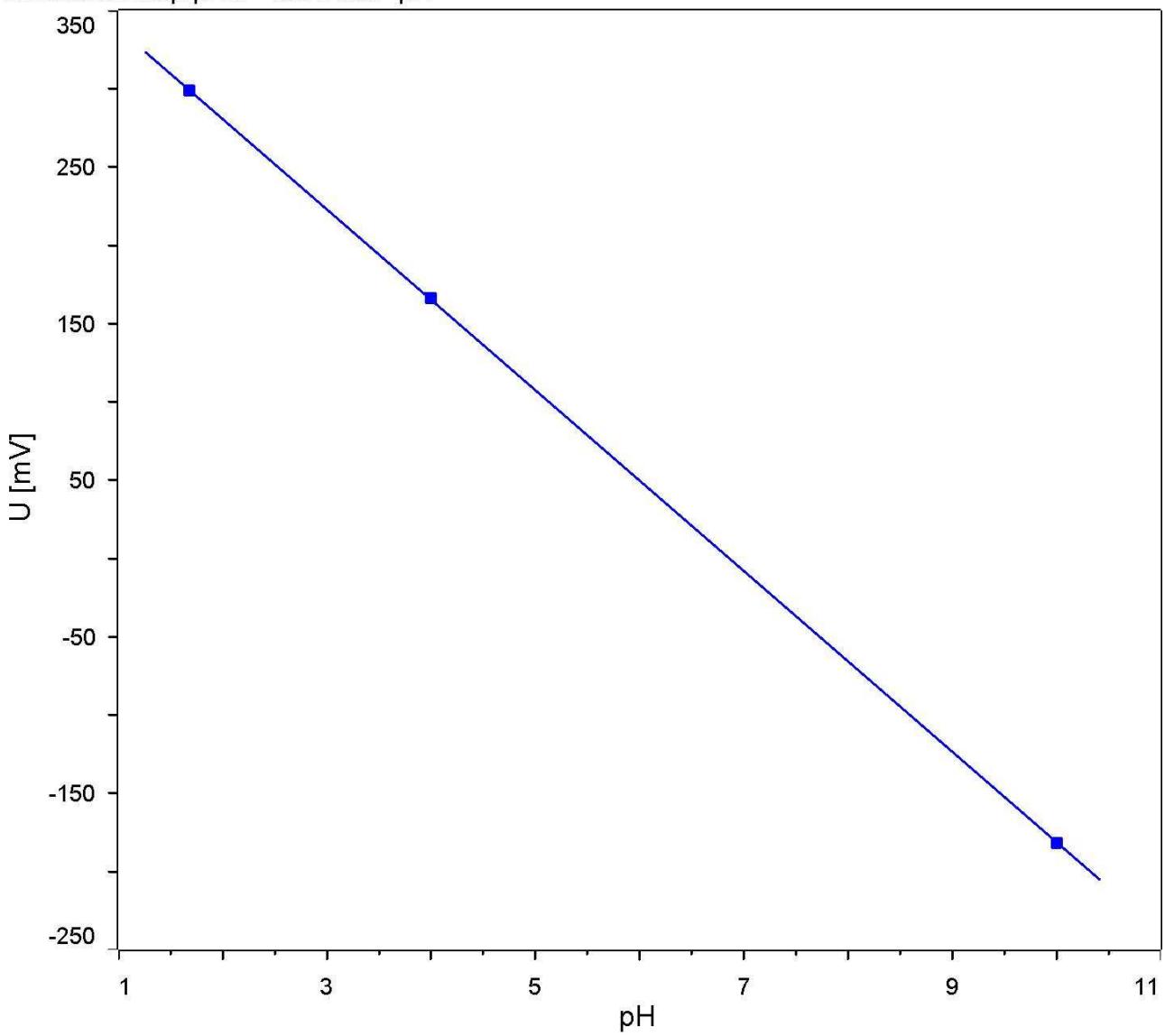
Timao Calibration Curve

2020-10-21 14:30:22

Calculations

Buffer 7	6.99	
Formula	'MEAS pH.EME'	
MEAS pH.EME	6.9929	
Slope	99.60	
Formula	'Calibration loop pH.SLO'	
Calibration loop pH.SLO	99.6	
pH(as)	6.86	
Formula	'Calibration loop pH.ENP'	
Calibration loop pH.ENP	6.863	
Res19	19.1	°C
Formula	'CAL MEAS pH.ETE'	
CAL MEAS pH.ETE	19.0843	

Calibration loop pH.1 - CAL LOOP pH



Metrohm 814/809 Titrando Data

Sample ID	Analysis Date/Time	Method	Titration Volume (to 8.3)	Titration Volume (total)	OH	CO3	HCO3	Total Alk	Unit	Sample Vol	N	Batch	Initials
BA20268W07	2020-10-21 19:01:19 UTC-7	Alkalinity	0.000	1.212	0.00	0.00	49.21	49.21	mg/L	25 mL	0.0203	201021A	AR
201021A LCS	2020-10-21 17:42:47 UTC-7	Alkalinity	0.222	6.630	0.00	18.03	251.15	269.18	mg/L	25 mL	0.0203	201021A	AR
201021A LCSD	2020-10-21 16:47:24 UTC-7	Alkalinity	0.304	6.176	0.00	24.68	226.06	250.75	mg/L	25 mL	0.0203	201021A	AR
201021A BLK	2020-10-21 16:36:27 UTC-7	Alkalinity	0.000	0.030	0.00	0.00	1.22	1.22	mg/L	25 mL	0.0203	201021A	AR

Tiamo Alkalinity Standard Prep

Prep'd By (Initials): AR

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Unit	Conc	Lot Number - QA Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc
Sulfuric Acid (H2SO4)	J.T.Baker	NA	NA	**167828**	**NA**	**NA**	PURCHASED	NA	NA	NA
0.10N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.1N	**167828**	**03/06/20**	**03/06/21**	3ml	1L	DI	0.10N
0.02N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.02N	**167828**	**03/06/20**	**03/06/21**	200mL	1L	DI	0.02N
Inorganic Spike(NaHCO3)	BDH	NA	NA	**19K0856189**	**04/09/20**	**NA**	PURCHASED	NA	NA	NA
Inorganic Spike Solution	BDH	Milligrams/Liters	250mg/L	**1575C510**	**07/27/20**	**01/27/21**	3.5g	500mL	DI	250mg/L
Standarizing Solution(NaCO3)	J.T.Baker	Normality	1N	**223443**	**07/02/20**	**03/11/21**	PURCHASED	NA	NA	NA

Tiamo Electroconductivity Standard Prep

Prep'd By (Initials): AR

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Units	Conc	Lot Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc. Range (µg/mL)
EC Spike(KCl)	Mallinckrodt AR	Na	NA	**6858 KHMV**	**NA**	**NA**	PURCHASED	NA	NA	NA
EC Spike Solution	Mallinckrodt AR	Moles/Conductivity	0.01M	**6858 KHMV**	**04/23/20**	4/23/21	0.7456g	1L	DI	1412umos
EC Daily LCS Solution	Mallinckrodt AR	Moles/Conductivity	0.0070824M	**6858 KHMV**	05/25/20	5/25/21	0.5280g	1L	DI	1000umos
Storage Solution EC Probe	APPL	NA	NA	NA	NA	NA	NA	NA	DI	NA

Tiamo pH Buffer Reference Standards

Prep Date: Daily

Exp Date: Daily

Prep'd By (Initials): AR **AR**

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Units	pH	Lot Number - QA Number	Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
pH 1.68 Buffer	VWR	pH Units	1.68	**1006705**	**07/02/20**	**11/27/20**	NA	NA	NA	NA
pH 4.00 Buffer	VWR	pH Units	4	**1901A35-40706**	**01/19/19**	**01/13/21**	NA	NA	NA	NA
pH 10.01 Buffer	VWR	pH Units	10.01	**1004B81**	**07/02/20**	**10/12/21**	NA	NA	NA	NA
pH 7.00 Buffer	Ricca	pH Units	7	**1912A15**	**07/02/20**	**12/01/21**	NA	NA	NA	NA

Ferrous Iron — Rev 2, 04-05-19

Method SM3500Fe | Units mg/L | Instrument: Genisis Spectrometer
Analyte Fe2+ | QCG: 201023 | Wavelength: 510 nm
Analyist fjr | Final Volume: 50mL | Units: mg/L

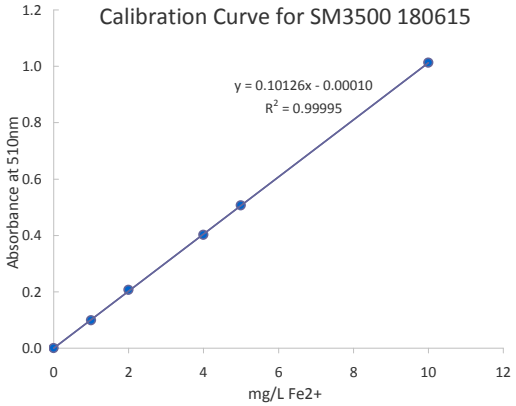
Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery
06/26/20	10:49	ICB	0.00	0.000	
06/26/20	10:49	Ical 1	1.00	0.099	97.9%
06/26/20	10:50	Ical 2	2.00	0.207	102.3%
06/26/20	10:51	Ical 3	4.00	0.402	99.3%
06/26/20	10:51	Ical 4	5.00	0.506	100.0%
06/26/20	10:52	Ical 5	10.00	1.013	100.1%
06/26/20	10:52	ICV	3.00	0.313	103.1%
06/26/20	10:53	ICB	0.00	0.000	

Slope	0.101255102
Intercept	-0.000102041
Coefficient of Determination	0.999948376

Algortithm Check:	Appl ID	Absorbance	Result
	LCS A201023	0.305	3.01

Result = (Absorbance-Raw Blk-Intercept)/ Slope

Test:	FJR	10/23/20	3.01



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
10/23/20	18:43	CCV 4.0 A201023	1	0.408	25mL		4.03	4.03	4.00	100.8%
10/23/20	18:42	CCB A201023	1	0.000	25mL		0.00	0.00		
10/23/20	18:43	LCS A201023	1	0.305	25mL		3.01	3.01	3.00	100.4%
10/23/20	18:44	LCSD A201023	1	0.311	25mL		3.07	3.07	3.00	102.4%
10/23/20	18:44	BA19198W01 PT	1	0.082	25mL		0.81	0.81		
10/23/20	18:45	BA20268W09	1	0.077	25mL		0.76	0.76		
10/23/20	19:46	BA20486W09	1	0.028	25mL		0.28	0.28		
10/23/20	18:59	BA20539W13	1	0.018	25mL		0.18	0.18		
10/23/20	19:00	BA20544W09	1	0.012	25mL		0.12	0.12		
10/23/20	19:03	BA20544W09 MS	1	0.324	25mL		3.20	3.20		
10/23/20	19:04	BA20544W09 MSD	1	0.325	25mL		3.21	3.21		
10/23/20	19:49	CCV 4.0 A201023	1	0.413	25mL		4.08	4.08	4.00	102.0%
10/23/20	19:49	CCB A201023	1	0.003	25mL		0.03	0.03		

Standard Prep

	Ferrous Iron Standards		Prep'd By (Initials)		FJR		
Prep Date	06/26/20						
Exp Date	06/26/21						
Stock Label	Supplier	Batch Number	Exp Date	Aliquot from Stock	Final Volume	Solvent	Ferrous Iron Concentration
Ferrous Ammonium Sulfate	J.T.Baker	0000184592	08/21/20	0.351	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Sulfate	Mallinckrodt	Lot 5056 KDRX	NA	0.250	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Iron CCV/LCS/MS/ICV			Prep'd By (Initials)		FJR		
Prep Date	See Injection Log						
Exp Date	24 Hours						
Initial Standard Information	Supplier	Batch Number	Exp Date	Final Standard Information			
Ferrous Iron CCV	J.T.Baker	0000184592	Prep Daily	500uL	25mL	Deionized water	4mg/L
Ferrous Iron ICV/LCS	Mallinckrodt	Lot 5056 KDRX	Prep Daily	375uL	25mL	Deionized water	3mg/L
	Ferrous Iron Calibration Curve		Prep'd By (Initials)		FJR		
Prep Date	06/26/20						
Exp Date	06/26/21						
Final Standard Information							
Point Label	Supplier	Batch Number	Exp Date	Aliquot from Stock (mL)	Final Volume	Solvent	Ferrous Iron Concentration
CCB	J.T.Baker	0000184592	06/26/21	0	25mL	Deionized water	0mg/L
Ical 1	J.T.Baker	0000184592	06/26/21	0.125	25mL	Deionized water	1mg/L
Ical 2	J.T.Baker	0000184592	06/26/21	0.25	25mL	Deionized water	2mg/L
Ical 3	J.T.Baker	0000184592	06/26/21	0.5	25mL	Deionized water	4mg/L
Ical 4	J.T.Baker	0000184592	06/26/21	0.625	25mL	Deionized water	5mg/L
Ical 5	J.T.Baker	0000184592	06/26/21	1.25	25mL	Deionized water	10mg/L
ICV	Mallinckrodt	Lot 5056 KDRX	06/26/21	0.375	25mL	Deionized water	3mg/L

Reagent Prep

Reagent	Chemical Lot #	Chemical	Chemical Expiration Date	Amount	Date Prep
Colorizer	0747C107	1,10-phenanthroline	na	0.2056	07/28/20
		HCL conc	na	enough to dissolve	
Buffer	Z28B018	Ammonia Acetate	na	249.2	04/29/20
	2018071399	Glacial Acetic Acid	na	700mL	

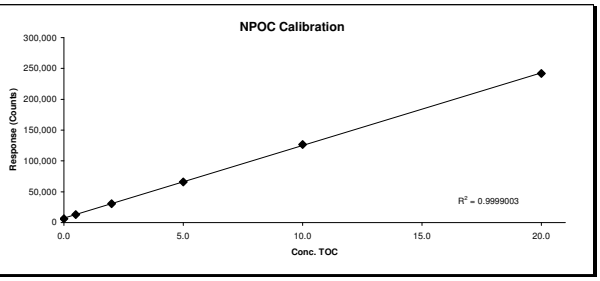
TOTAL ORGANIC CARBON

Method: WetChem | Units mg/L | Instrument: Tic Toc

Analyte: TOC | QCG: 201019A

Analyist: AAR | Final Volume: 40mL

Date	Time	Appl ID	[TOC]	Raw	% Recovery
06/11/20	0:01	QC blank	0.00	6172	
06/11/20	0:41	Ical 1	0.50	13120	
06/11/20	1:19	Ical 2	2.00	30622	
06/11/20	1:58	Ical 3	5.00	66151	
06/11/20	2:37	Ical 4	10.00	126505	
06/11/20	3:16	Ical 5	20.00	241922	
06/11/20	18:06	ICB	0.00	6336	
06/11/20	18:46	ICV	4.99	65817	99.8%



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Filter Blank Subtract	Calc Conc	Result	Range (mg/L)	QC True	% Recovery
2020-10-20	07:19 AM	CCV	1	60799	40mL	0.000	4.851	4.85	0.02	5.00	97.0%
2020-10-20	07:59 AM	CCB	1	5469	40mL	0.000	0.155	0.16	0.00		
2020-10-20	08:38 AM	201019A LCS	1	61247	40mL	0.000	4.89	4.89	0.04	5.00	97.8%
2020-10-20	09:19 AM	201019A LCSD	1	60901	40mL	0.000	4.86	4.86	0.02	5.00	97.2%
2020-10-20	10:00 AM	BA19743W03 DF20	20	156777	40mL	0.000	13.164	263.28	1.72		
2020-10-20	10:39 AM	BA20054W08	1	7592	40mL	0.000	0.501	0.50	0.05		
2020-10-20	11:16 AM	BA20054W08 MSD	1	54623	40mL	0.000	4.493	4.49	1.45		
2020-10-20	11:54 AM	BA20184W05	1	8965	40mL	0.000	0.617	0.62	0.00		
2020-10-20	12:31 PM	BA20186W05	1	7603	40mL	0.000	0.502	0.50	0.06		
2020-10-20	01:09 PM	BA20188W05	1	11059	40mL	0.000	0.795	0.80	0.01		
2020-10-20	01:47 PM	BA20190W06	1	7837	40mL	0.000	0.522	0.52	0.01		
2020-10-20	02:25 PM	BA20268W06	1	7386	40mL	0.000	0.483	0.48	0.02		
2020-10-20	03:02 PM	CCV	1	59855	40mL	0.000	4.937	4.94	0.17	5.00	98.7%
2020-10-20	03:39 PM	CCB	1	4952	40mL	0.000	0.111	0.11	0.02		

Name of Final Standard TOC Calibration Curve — **Prep'd By (Initials)** AR

Prep Date 06/11/20

Exp Date 06/11/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	20 uL	40 mL	DI Water	0.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	250 uL	40 mL	DI Water	5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	500 uL	40 mL	DI Water	10 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	1000 uL	40 mL	DI Water	20 ppm

Name of Final Standard ICV (TOC) — **Prep'd By (Initials)** AR

Prep Date 06/11/20

Exp Date 06/11/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1000 PPM ICV TOC Intermediate	APPL Inc.	Prep: 2/11/19	1000 mg/L	6465171-49409	06/30/21	500 uL	40mL	DI Water	10 ppm

Name of Final Standard CCV (TOC) — **Prep'd By (Initials)** AR

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	6465171-49409	06/30/21	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard TOC_LCS/LCSD — **Prep'd By (Initials)** AR

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	6465171-49409	06/30/21	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard TOC_MS/MSD — **Prep'd By (Initials)** AR

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	6465171-49409	06/30/21	200 uL	40 mL	sample	5 ppm

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

November 16, 2020

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Brooke Gottmeier

Title: Report of Data: Case 93803

Project: 60571032 CV18F0126 Red Hill Fuel Storage, HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

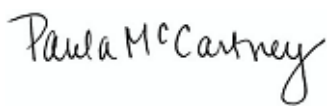
Dear Ms. Gottmeier:

Two water samples were received October 20, 2020. Written results for the requested analyses are being provided on this November 16, 2020.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
for
60571032 CV18F0126 Red Hill Fuel Storage
APPL SDG 93803
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CASE NARRATIVE

Case Narrative

ARF: 93803

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Two water samples were received October 20, 2020, at and 4.5°C. The sample group was assigned Analytical Request Form (ARF) number 93803.

Sample Preparation and Analysis Information:

For the EPA 8015B analysis, the sample was extracted according to EPA method 3520C. The sample extracts were silica gel cleaned according to APPL's SOP CLN004 and placed on hold.

For the EPA 8270D Phenol analysis, the sample was extracted according to EPA method 3520C.

For the EPA 8270D SIM analysis, the sample was extracted according to EPA method 3520C.

For the APPL SOP ANA2MEE analysis, the sample was extracted according to EPA method 3535.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the RSK-175 analysis, the sample was allowed to equilibrate for 10 minutes at 40°C and a portion of the headspace was analyzed.

For the EPA 9060A, 300.0, 353.2, SM 2320B, and SM 3500FeB analyses, the sample was prepared according to the methods.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

None.

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
93803	10/20/20	ERH1176	BA20485	10/19/20 9:15:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
93803	10/20/20	ERH1176	BA20485	10/19/20 9:15:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93803	10/20/20	ERH1176	BA20485	10/19/20 9:15:00 AM	WATER	RSK 175	METHANE BY RSK 175
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	EPA 353.2	WETLAB 353.2 TOXN- WATER
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	SM3500FeB	Ferrous Iron
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	EPA 8270D	EPA 8270D WATER
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	RSK 175	METHANE BY RSK 175
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
93803	10/20/20	ERH1177	BA20486	10/19/20 11:15:00 AM	WATER	SW846 9060A	9060A TOC

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

SAMPLE RECORDS MANAGEMENT

CHAIN OF CUSTODY,

ARF, CRF, AND

CLIENT COMMUNICATION

APPL - Analysis Request Form

93803

Client: AECOM
Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
Attn: Brooke Gottmeier
Phone: 808-954-4536 Fax: 808-523-8950
Job: 60571032 CV18F0126 Red Hill Fuel Storage
PO #: 18S-22209-HI27 PO# 102604
Chain of Custody (Y/N): Y # 109
RAD Screen (Y/N): Y pH (Y/N): Y
Turn Around Type: 1 WEEK

Received by: AAR
Date Received: 10/20/20 Time: 10:30
Delivered by: FEDEX
Shuttle Custody Seals (Y/N): Y Time Zone: -10
Chest Temp(s): 4.5°C
Color: VFRG/C-Black
Samples Chilled until Placed in Refrig/Freezer: Y
Project Manager: Libby Cheesebor
QC Report Type: DVP4DOD/EQUIS/HI
Due Date: 10/27/20

Comments:
PM: login and F1s to Margie.Pascua@aecom.com & brooke.gottmeier@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms: LOD database
Report MS/MSD/DUPs when AECOM sample used
Wetlab: EPA 300 (NO3,CL,SO4). EPA 353.2 (TOXN).
8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; $87DC53W5: report phenol only
FR: email ftp info to Margie, Stella, trommelfanger@lab-data.com & jcanlas@lab-data.com
EDD: AECOM EQuIS EDD 2.5.3 Red Hill 87DMEE->3535A to brooke.gottmeier@, Margie.Pascua@aec

Sample Distribution:
GC: 1-$87DC53W5, 1-$87DMEEW5, 1-$DOC53W5LIQ, 1-$SIM53LIQ51
Extractions: 1-_LIQ003, 1-_LIQ005, 1-_MWE2MEE
VOA: 2-$86BTOTXDOD5W, 2-$GASBL, 2-$GRO86BW, 2-$RSKMETH
Wetlab: 1-$232W(HCO3,CO3,ALK), 1-$300W, 1-$353TOXNW, 1-$35FE, 1-$TOCW53

Charges:

Invoice To:
ACCOUNTS PAYABLE
1001 Bishop Street, Ste 1600
USAPImaging@aecom.com
mary.basano@aecom.com

	Client ID		APPL ID	Sampled	Analyses Requested
1.	ERH1176	LCSD	BA20485W	10/19/20 09:15	$86BTOTXDOD5W, $GASBL, $GRO86BW, $RSKMETH -- See Comments
2.	ERH1177	LCSD	BA20486W	10/19/20 11:15	$232W(HCO3,CO3,ALK), $300W, $353TOXNW, $35FE, $86BTOTXDOD5W, $87DC53W5, $87DMEEW5, $DOC53W5LIQ, $GASBL, $GRO86BW, $RSKMETH, $SIM53LIQ51, $TOCW53 -- See Comments

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -10 UTC

APPL Sample Receipt Form

ARF# **93803**

Sample	Container Type	Count	p
BA20485	[13] VOAs - HCL	4	NA
BA20486	[3] PL 250mL	1	NA
	[10] PL 250mL - H2SO4	1	1.3
	[13] VOAs - HCL	4	NA
	[17] Amber Liter	4	NA
	[32] Clear VOA - H2SO4	2	NA
	[38] 250mL brn poly, HCl prsvd	1	1.6
	[40] 500mL Amber, unprsrvd	3	NA

Sample	Container Type	Count	p

93803

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com
Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

C.O.C. 109

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-954-4536	Company Name: AECOM Phone: 512-419-6709
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950	Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Brooke Gottmeier	Attn: Sheree Smith
Email: brooke.gottmeier@aecom.com	Email: sheree.smith@aecom.com; usapimaging@aecom.com

Project Name/Number: CV18F0126 / 60571032
Purchase Order Number: 102604
Sampler (Print): GM, JV, RS
Sampler (Signature):

Date Shipped: 10/19/20
Carrier: FedEx
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Sed.	Soil	8260C BTEX,TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity 300.0 Nitrate,Sulfate,Chloride	300.0 Bromide/Fluoride 6010 Total Ca,Mg,Mn,K,Na SM4500 Total & Dissolved Silica	9060A TOC	9060A DOC
ERH1176	Trip Blank	10/19/20	09:15	HST	4	X			X							X						
ERH1177	RHMW09	10/19/20	11:15	HST	16	X			X		X	X*	X	X	X	X	X	X	X	X	X	

BB 10/19/20

*Analyze TPH w/SGT only if TPH-d/o detected.

** MS/MSD: 8011, 8015, 8260, 8270, 8270SIM

TPH-d/o & PAHs need liquid-liquid extraction.

10 of 540

Shuttle Temperature: RI: 4.5/4.5

Turnaround Requested: Check one
☐ Standard 2-3 wk ☒ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other: _____

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
(AECOM)	10/19/20	14:30					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					10/20/20	1030	

See page 2 for Container Preservative and Sampling Information

COOLER RECEIPT FORM **ARF: 93803**

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 10/20/20

2) Coolers: Number of Coolers: 1

3) YES Were custody seals present and intact?
How many? 2 Name/Date on seal? SEE BELOW

4) YES Was there a shipping slip? Carrier name: FEDEX

5) Type of packing in cooler: X bubble wrap __ popcorn __ foam X plastic bags __ other
X wet ice __ dry ice __ no ice __ gel ice

6) YES Were cooler temperatures acceptable?

7) Serial number of calibrated thermometer used: R1 CF:+0.0°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp
1: 4.5/4.5 2: ____ 3: ____ 4: ____ 5: ____ 6: ____
7: ____ 8: ____ 9: ____ 10: ____ 11: ____ 12: ____

Chain of custody:

9) YES Was a chain of custody received?

10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?

12) YES Did all container labels agree with custody papers?

Sample Containers:

13) YES Were all containers sealed in separate bags?

14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?

15) YES Were correct containers and preservatives used for the tests indicated?

16) YES Was a sufficient amount of sample sent for tests indicated?

17) Yes Were bubbles present in volatile samples?
If yes, the following were received with air bubbles:
Larger than a pea: BA20485w02-04
Smaller than a pea: BA20485w01, BA20486w02-04

Preservation Hold time:

18) Yes Was a sufficient amount of holding time remaining to analyze the samples?

19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container?

20) Yes Was the pH of acid preserved non-VOA samples < 2?

21) NA Was the pH of the "basic" preserved samples for Cyanide > 12, Sulfide >9, Hexchrom >9?

22) NO Were unpreserved VOA Vials received for VOA Dept analysis?

23) NA If "yes", are the unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?
pH strip lot number: HC908519
Lab notified if pH was not adequate: ____

Notes/Deficiencies:

CUSTODY SEAL
APPL, Inc. (559) 275-2175
Initials: [signature] Date 10/19/20

Personnel receiving samples: AA Second reviewer: AA
Personnel labeling samples: MS
Project manager notified: AA Date/Time of notification 10/20/20
Name of client notified: ____ Date/Time of notification ____

SAMPLE RESULTS

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1177

APPL ID: BA20486

Sample Collection Date: 10/19/20

QCG: #DOC53-201022A-257896

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/22/20	10/26/20
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	10/22/20	10/26/20
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	85.3	60-142			%	10/22/20	10/26/20
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	82.9	56-125			%	10/22/20	10/26/20

Quant Method:	DOC0905.M
Run #:	1019207
Instrument:	Apollo
Sequence:	201019
Dilution Factor:	1
Initials:	SSE

Printed: 11/11/20 11:50:43 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1177

APPL ID: BA20486

Sample Collection Date: 10/19/20

QCG: #87DC5-201021A-257854

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/21/20	10/23/20
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	97.6	43-140			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	92.4	44-119			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	91.5	19-119			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	95.0	44-120			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: PHENOL-D6 (S)	92.5	10-115			%	10/21/20	10/23/20
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	111	50-134			%	10/21/20	10/23/20

Quant Method: Y1009.M
Run #: 1009Y223
Instrument: Yoda
Sequence: Y201009
Dilution Factor: 1
Initials: MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1177

APPL ID: BA20486

Sample Collection Date: 10/19/20

QCG: #SIM53-201021A-257900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	114	39-114			%	10/21/20	10/23/20
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	113	58-120			%	10/21/20	10/23/20

Quant Method:	L1016.M
Run #:	1016L122
Instrument:	Linus
Sequence:	L201016
Dilution Factor:	1
Initials:	MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1177

APPL ID: BA20486

Sample Collection Date: 10/19/20

QCG: #87DME-201026A-257898

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/26/20	10/27/20

Quant Method:	YMEE0501.M
Run #:	0501Y134
Instrument:	Yoda
Sequence:	Y200501M
Dilution Factor:	1
Initials:	MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1176

APPL ID: BA20485

Sample Collection Date: 10/19/20

QCG: #86BTO-201023AZ-257892

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	101	81-118			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	103	80-119			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	107	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z46
Instrument: ZEUS
Sequence: 201023
Dilution Factor: 1
Initials: DG

Printed: 10/27/20 1:38:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1177

APPL ID: BA20486

Sample Collection Date: 10/19/20

QCG: #86BTO-201023AZ-257892

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	100.0	81-118			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	102	80-119			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	107	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z47
Instrument: ZEUS
Sequence: 201023
Dilution Factor: 1
Initials: DG

Printed: 10/27/20 1:38:58 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1176

APPL ID: BA20485

Sample Collection Date: 10/19/20

QCG: #GRO86-201023AZ-257875

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/24/20	10/24/20

Quant Method:	ZGAS1023.M
Run #:	1023Z46
Instrument:	ZEUS
Sequence:	201023
Dilution Factor:	1
Initials:	DG

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1177

APPL ID: BA20486

Sample Collection Date: 10/19/20

QCG: #GRO86-201023AZ-257875

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/24/20	10/24/20

Quant Method:	ZGAS1023.M
Run #:	1023Z47
Instrument:	ZEUS
Sequence:	201023
Dilution Factor:	1
Initials:	DG

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APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1176

APPL ID: BA20485

Sample Collection Date: 10/19/20

QCG: #RSKME-201027A-257902

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/27/20	10/27/20

Quant Method:	RSK0914A.M
Run #:	1027R04
Instrument:	Rocky
Sequence:	200914
Dilution Factor:	1
Initials:	GAG

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APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93803

Sample ID: ERH1177

APPL ID: BA20486

Sample Collection Date: 10/19/20

QCG: #RSKME-201027A-257902

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/27/20	10/27/20

Quant Method:	RSK0914A.M
Run #:	1027R05
Instrument:	Rocky
Sequence:	200914
Dilution Factor:	1
Initials:	GAG

Printed: 10/27/20 4:44:17 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1177

APPL ID: BA20486

Sample Collection Date: 10/19/20

ARF: 93803

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	2.0	0.5	0.18	0.04	mg/L	1	10/21/20	10/21/20
EPA 300.0	SULFATE	9.5	1.0	0.20	0.09	mg/L	1	10/21/20	10/21/20
EPA 300.0	CHLORIDE	56.1	5.0	1.00	0.40	mg/L	5	10/21/20	10/21/20

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1177

APPL ID: BA20486

Sample Collection Date: 10/19/20

ARF: 93803

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE AS N	0.48	0.10	0.090	0.028	mg/L	1	10/22/20	10/22/20
SM 2320B	BICARBONATE AS CACO3	64.5	2.0	1.70	0.85	mg/L	1	10/21/20	10/21/20
SM 2320B	CARBONATE AS CACO3	1.70 U	2.0	1.70	0.85	mg/L	1	10/21/20	10/21/20
SM 2320B	TOTAL ALKALINITY AS CACO	64.5	2.0	1.70	0.85	mg/L	1	10/21/20	10/21/20
SM3500FeB	FERROUS IRON	0.28 J	1.0	0.32	0.16	mg/L	1	10/23/20	10/23/20
SW846 9060A	TOTAL ORGANIC CARBON	0.29 J	0.93	0.350	0.130	mg/L	1	10/22/20	10/22/20

J = Estimated value.

Printed: 10/27/20 4:26:02 PM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/26/20

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201022A-BLK	Blank	60-142	85.1		56-125	84.2	
201022A-LCS	Lab Control Spike	60-142	88.9		56-125	94.7	
201022A-LCSD	Lab Control SpikeD	60-142	87.3		56-125	92.3	
BA20486	ERH1177	60-142	85.3		56-125	82.9	

Comments: Batch: #DOC53-201022A

EPA 8015B-eH

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/26/20
Matrix:	WATER	Instrument:	Apollo
Blank ID:	201022A-BLK	Time Analyzed:	1551

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A-BLK	Blank	1019191	10/26/20 1551
201022A-LCS	Lab Control Spike	1019192	10/26/20 1619
201022A-LCSD	Lab Control SpikeD	1019193	10/26/20 1647
BA20486	ERH1177	1019207	10/26/20 2317

Comments: Batch: #DOC53-201022A

Method Blank
EPA 8015B TPH LIQ-LIQ

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201022W-20486 - 257896**
Batch ID: #DOC53-201022A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/22/20	10/26/20
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	10/22/20	10/26/20
BLANK	SURROGATE: OCTACOSANE (S)	85.1	60-142			%	10/22/20	10/26/20
BLANK	SURROGATE: ORTHO-TERPHEN	84.2	56-125			%	10/22/20	10/26/20

Quant Method: DOC0905.M
Run #: 1019191
Instrument: Apollo
Sequence: 201019
Initials: SSE

GC SC-Blank-REG MDLs-DOD
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EPA 8015B-eH

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/26/20
Matrix:	WATER	Instrument:	Apollo
LCS ID:	201022A-LCS	Time Analyzed:	1619

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A-BLK	Blank	1019191	10/26/20 1551
201022A-LCS	Lab Control Spike	1019192	10/26/20 1619
201022A-LCSD	Lab Control SpikeD	1019193	10/26/20 1647
BA20486	ERH1177	1019207	10/26/20 2317

Comments: Batch: #DOC53-201022A

Laboratory Control Spike Recoveries
EPA 8015B TPH LIQ-LIQ

APPL ID: **201022W-20486 LCS - 257896**
Batch ID: #DOC53-201022A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1140	1200	91.2	96.0	36-132	5.1	30
OIL (C24-C40)	1250	1140	1170	91.2	93.6	41-113	2.6	30
SURROGATE: OCTACOSANE (S)	75.0	66.7	65.5	88.9	87.3	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	71.0	69.2	94.7	92.3	56-125		

Comments:

Primary	SPK	DUP
Quant Method :	DOC0905.M	DOC0905.M
Extraction Date :	10/22/20	10/22/20
Analysis Date :	10/26/20	10/26/20
Instrument :	Apollo	Apollo
Run :	1019192	1019193
Initials :	SSE	

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	43-140	86.7		44-119	85.5	
201021A-LCS	Lab Control Spike	43-140	93.6		44-119	88.8	
201021A-LCSD	Lab Control SpikeD	43-140	101		44-119	92.0	
BA20486	ERH1177	43-140	97.6		44-119	92.4	

Comments: Batch: #87DC5-201021A

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	19-119	82.8		44-120	88.7	
201021A-LCS	Lab Control Spike	19-119	93.2		44-120	92.0	
201021A-LCSD	Lab Control SpikeD	19-119	97.6		44-120	97.6	
BA20486	ERH1177	19-119	91.5		44-120	95.0	

Comments: Batch: #87DC5-201021A

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	10-115	82.4		50-134	98.3	
201021A-LCS	Lab Control Spike	10-115	92.4		50-134	103	
201021A-LCSD	Lab Control SpikeD	10-115	97.2		50-134	108	
BA20486	ERH1177	10-115	92.5		50-134	111	

Comments: Batch: #87DC5-201021A

EPA 8270D

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Yoda
Blank ID:	201021A-BLK	Time Analyzed:	1321

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1009Y219	10/23/20 1321
201021A-LCS	Lab Control Spike	1009Y220	10/23/20 1347
201021A-LCSD	Lab Control SpikeD	1009Y221	10/23/20 1413
BA20486	ERH1177	1009Y223	10/23/20 1504

Comments: Batch: #87DC5-201021A

Method Blank
EPA 8270D WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201021W-20539 - 257854**
Batch ID: #87DC5-201021A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/21/20	10/23/20
BLANK	SURROGATE: 2,4,6-TRIBROMOP	86.7	43-140			%	10/21/20	10/23/20
BLANK	SURROGATE: 2-FLUORBIPHENY	85.5	44-119			%	10/21/20	10/23/20
BLANK	SURROGATE: 2-FLUOROPHENO	82.8	19-119			%	10/21/20	10/23/20
BLANK	SURROGATE: NITROBENZENE-	88.7	44-120			%	10/21/20	10/23/20
BLANK	SURROGATE: PHENOL-D6 (S)	82.4	10-115			%	10/21/20	10/23/20
BLANK	SURROGATE: TERPHENYL-D14 (	98.3	50-134			%	10/21/20	10/23/20

Quant Method: Y1009.M
Run #: 1009Y219
Instrument: Yoda
Sequence: Y201009
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 10/26/20 5:30:53 PM

EPA 8270D

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Yoda
LCS ID:	201021A-LCS	Time Analyzed:	1347

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1009Y219	10/23/20 1321
201021A-LCS	Lab Control Spike	1009Y220	10/23/20 1347
201021A-LCSD	Lab Control SpikeD	1009Y221	10/23/20 1413
BA20486	ERH1177	1009Y223	10/23/20 1504

Comments: Batch: #87DC5-201021A

Laboratory Control Spike Recoveries
EPA 8270D WATER

APPL ID: **201021W-20539 LCS - 257854**
Batch ID: #87DC5-201021A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	58.1	62.4	93.0	99.8	10-115	7.1	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	234	253	93.6	101	43-140		
SURROGATE: 2-FLUORBIPHENYL (S)	125	111	115	88.8	92.0	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	233	244	93.2	97.6	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	115	122	92.0	97.6	44-120		
SURROGATE: PHENOL-D6 (S)	250	231	243	92.4	97.2	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	129	135	103	108	50-134		

Comments:

Primary	SPK	DUP
Quant Method :	Y1009.M	Y1009.M
Extraction Date :	10/21/20	10/21/20
Analysis Date :	10/23/20	10/23/20
Instrument :	Yoda	Yoda
Run :	1009Y220	1009Y221
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No:
Case No: Date Analyzed: 10/09/20
Matrix: Soil Instrument: Yoda
ID: 1009Y002.D Time Analyzed: 10:55

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		4ug/mL 8270 7/22/20	1009Y003.D	10/09/20 11:14
2		5ug/mL 8270 7/22/20	1009Y004.D	10/09/20 11:40
3		10ug/mL 8270 7/22/20	1009Y005.D	10/09/20 12:05
4		20ug/mL 8270 7/22/20	1009Y006.D	10/09/20 12:31
5		40ug/mL 8270 7/22/20	1009Y007.D	10/09/20 12:56
6		50ug/mL 8270 7/22/20	1009Y008.D	10/09/20 13:22
7		60ug/mL 8270 7/22/20	1009Y009.D	10/09/20 13:48
8		80ug/mL 8270 7/22/20	1009Y010.D	10/09/20 14:13
9		100ug/mL 8270 7/22/2	1009Y011.D	10/09/20 14:38
10		SS 50ug/mL 8270 7/22	1009Y012.D	10/09/20 15:04
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	30.7
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.2
127	10 - 80% of mass 198	45.8
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.9
275	10 - 60% of mass 198	27.3
365	1 - 100% of mass 198	2.7
441	0.01 - 24% of mass 442	16.5
442	50 - 500% of mass 197.95	76.1
443	15 - 24% of mass 442	19.4

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93803
Case No: 93803 Date Analyzed: 10/23/20
Matrix: Water Instrument: Yoda
ID: 1009Y217.D Time Analyzed: 12:41

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		50ug/mL 8270 7/22/20	1009Y218.D	10/23/20 12:56
2	Blank	201021A BLK 1/800	1009Y219.D	10/23/20 13:21
3	Lab Control Spike	201021A LCS-1 1/800	1009Y220.D	10/23/20 13:47
4	Lab Control SpikeD	201021A LCSD-1 1/800	1009Y221.D	10/23/20 14:13
5	ERH1177	BA20486W13 1/800	1009Y223.D	10/23/20 15:04
6		50ug/mL 8270 8/13/20	1009Y236.D	10/23/20 20:35
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	33.1
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.4
127	10 - 80% of mass 198	48.0
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.6
275	10 - 60% of mass 198	26.2
365	1 - 100% of mass 198	2.8
441	0.01 - 24% of mass 442	10.6
442	50 - 500% of mass 197.95	76.2
443	15 - 24% of mass 442	19.6

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1009Y218.D Date Analyzed: 10/23/20

Instrument ID: Yoda Time Analyzed: 12:56

GC Column: ID: Heated Purge: (Y/N)

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	157272	5.11	623624	6.53	374698	8.55
	UPPER LIMIT	314544	5.28	1247248	6.70	749396	8.72
	LOWER LIMIT	78636	4.94	311812	6.36	187349	8.38
	SAMPLE NO.						
01	201021A BLK 1/800	148761	5.11	607132	6.52	370629	8.55
02	201021A LCS-1 1/800	144438	5.11	584633	6.53	352993	8.55
03	201021A LCSD-1 1/800	143484	5.11	576643	6.53	351287	8.55
04	BA20486W13 1/800	152254	5.11	616005	6.53	366323	8.54
05	50ug/mL 8270 8/13/20 (	173637	5.11	737280	6.53	458437	8.55
06							
07							
08							
09							
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12							
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14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1009Y218.D Date Analyzed: 10/23/20

Instrument ID: Yoda Time Analyzed: 12:56

GC Column: ID: Heated Purge: (Y/N)

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	731491	10.27	731177	13.36	742323	15.06
	UPPER LIMIT	1462982	10.44	1462354	13.53	1484646	15.23
	LOWER LIMIT	365746	10.10	365589	13.19	371162	14.89
	SAMPLE NO.						
01	201021A BLK 1/800	718091	10.27	743070	13.36	716825	15.06
02	201021A LCS-1 1/800	710154	10.27	702959	13.36	698448	15.06
03	201021A LCSD-1 1/800	691284	10.27	694410	13.36	701317	15.06
04	BA20486W13 1/800	736646	10.27	724119	13.35	696016	15.07
05	50ug/mL 8270 8/13/20 (	893524	10.27	913770	13.37	897270	15.06
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
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20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	39-114	108		58-120	111	
201021A-LCS	Lab Control Spike	39-114	92.0		58-120	101	
201021A-LCSD	Lab Control SpikeD	39-114	92.2		58-120	105	
BA20486	ERH1177	39-114	114		58-120	113	

Comments: Batch: #SIM53-201021A

8270D-SIM

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Linus
Blank ID:	201021A-BLK	Time Analyzed:	1424

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1016L118	10/23/20 1424
201021A-LCS	Lab Control Spike	1016L119	10/23/20 1446
201021A-LCSD	Lab Control SpikeD	1016L120	10/23/20 1509
BA20486	ERH1177	1016L122	10/23/20 1553

Comments: Batch: #SIM53-201021A

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **201021W-20539 - 257900**
Batch ID: #SIM53-201021A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
BLANK	SURROGATE: 2-METHYLNAPHT	108	39-114			%	10/21/20	10/23/20
BLANK	SURROGATE: FLUORANTHENE-	111	58-120			%	10/21/20	10/23/20

Quant Method:L1016.M
Run #:1016L118
Instrument:Linus
Sequence:L201016
Initials:MA

GC SC-Blank-REG MDLs-DOD
Printed: 10/27/20 4:25:26 PM

8270D-SIM

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Linus
LCS ID:	201021A-LCS	Time Analyzed:	1446

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1016L118	10/23/20 1424
201021A-LCS	Lab Control Spike	1016L119	10/23/20 1446
201021A-LCSD	Lab Control SpikeD	1016L120	10/23/20 1509
BA20486	ERH1177	1016L122	10/23/20 1553

Comments: Batch: #SIM53-201021A

Laboratory Control Spike Recoveries
EPA 8270D SIM LIQ-LIQ

APPL ID: **201021W-20539 LCS - 257900**
Batch ID: #SIM53-201021A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	5.36	5.37	85.8	85.9	41-115	0.19	20
2-METHYLNAPHTHALENE	6.25	5.38	5.38	86.1	86.1	39-114	0.0	20
NAPHTHALENE	6.25	5.78	5.61	92.5	89.8	43-114	3.0	20
SURROGATE: 2-METHYLNAPHTHALEN	6.25	5.75	5.76	92.0	92.2	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.30	6.56	101	105	58-120		

Comments:

Primary	SPK	DUP
Quant Method :	L1016.M	L1016.M
Extraction Date :	10/21/20	10/21/20
Analysis Date :	10/23/20	10/23/20
Instrument :	Linus	Linus
Run :	1016L119	1016L120
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1016L002.D

SDG No:
Date Analyzed: 10/16/20
Instrument: Linus
Time Analyzed: 10:21

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		0.1 SIM 08/21/20	1016L003.D	10/16/20 10:37
2		0.2 SIM 08/21/20	1016L004.D	10/16/20 10:59
3		0.5 SIM 08/21/20	1016L005.D	10/16/20 11:21
4		1 SIM 08/21/20	1016L006.D	10/16/20 11:43
5		5 SIM 08/21/20	1016L007.D	10/16/20 12:05
6		10 SIM 08/21/20	1016L008.D	10/16/20 12:27
7		50 SIM 08/21/20	1016L009.D	10/16/20 12:50
8		100 SIM 08/21/20	1016L010.D	10/16/20 13:12
9		SS SIM 08/21/20	1016L011.D	10/16/20 13:34
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.1% of mass 198	16.6
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.6
127	10 - 80% of mass 198	38.1
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.7
275	10 - 60% of mass 198	35.8
365	1 - 100% of mass 198	5.1
441	0.01 - 24% of mass 442	14.9
442	50 - 500% of mass 198	293.3
443	15 - 24% of mass 442	19.2

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93803
Case No: 93803 Date Analyzed: 10/23/20
Matrix: Water Instrument: Linus
ID: 1016L116.D Time Analyzed: 10:31

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		5 SIM 08/21/20 (1)	1016L117.D	10/23/20 11:22
2	Blank	201021A BLK 1/800	1016L118.D	10/23/20 14:24
3	Lab Control Spike	201021A LCS-2 1/800	1016L119.D	10/23/20 14:46
4	Lab Control SpikeD	201021A LCSD-2 1/800	1016L120.D	10/23/20 15:09
5	ERH1177	BA20486W13 1/800	1016L122.D	10/23/20 15:53
6		5 SIM 08/21/20 (2)	1016L123.D	10/23/20 16:15
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.1% of mass 198	15.9
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.6
127	10 - 80% of mass 198	38.9
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.7
275	10 - 60% of mass 198	33.1
365	1 - 100% of mass 198	4.9
441	0.01 - 24% of mass 442	15.9
442	50 - 500% of mass 198	241.9
443	15 - 24% of mass 442	19.6

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1016L117.D Date Analyzed: 10/23/20

Instrument ID: Linus Time Analyzed: 11:22

GC Column: ID: Heated Purge: (Y/N)

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	70872	11.13	76980	13.56		
	UPPER LIMIT	141744	11.30	153960	13.73		
	LOWER LIMIT	35436	10.96	38490	13.39		
	SAMPLE NO.						
01	201021A BLK 1/800	52875	11.12	57632	13.56		
02	201021A LCS-2 1/800	47498	11.13	51583	13.56		
03	201021A LCSD-2 1/800	55255	11.13	58690	13.56		
04	BA20486W13 1/800	53350	11.13	58381	13.56		
05	5 SIM 08/21/20 (2)	72836	11.13	85621	13.56		
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
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20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1016L117.D Date Analyzed: 10/23/20

Instrument ID: Linus Time Analyzed: 11:22

GC Column: ID: Heated Purge: (Y/N)

		Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	46756	4.27	27674	6.28	50490	7.99
	UPPER LIMIT	93512	4.44	55348	6.45	100980	8.16
	LOWER LIMIT	23378	4.10	13837	6.11	25245	7.82
	SAMPLE NO.						
01	201021A BLK 1/800	36479	4.27	18826	6.28	36720	7.99
02	201021A LCS-2 1/800	33312	4.27	17203	6.28	34685	7.99
03	201021A LCSD-2 1/800	35659	4.27	20111	6.28	36788	7.99
04	BA20486W13 1/800	31386	4.27	20434	6.28	35574	7.99
05	5 SIM 08/21/20 (2)	45063	4.27	25522	6.28	56001	7.99
06							
07							
08							
09							
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11							
12							
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16							
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AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/27/20

Matrix: WATER Instrument: Yoda

Blank ID: 201026A-BLK Time Analyzed: 1106

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-BLK	Blank	0501Y132	10/27/20 1106
201026A-LCS	Lab Control Spike	0501Y133	10/27/20 1130
BA20486	ERH1177	0501Y134	10/27/20 1153

Comments: Batch: #87DME-201026A

Method Blank
EPA 8270D MODIFIED WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201026W-20539 - 257898**
Batch ID: #87DME-201026A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	10/26/20	10/27/20

Quant Method: YMEE0501.M
Run #: 0501Y132
Instrument: Yoda
Sequence: Y200501M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 10/27/20 4:36:58 PM

EPA 8270D

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/27/20
Matrix:	WATER	Instrument:	Yoda
LCS ID:	201026A-LCS	Time Analyzed:	1130

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-BLK	Blank	0501Y132	10/27/20 1106
201026A-LCS	Lab Control Spike	0501Y133	10/27/20 1130
BA20486	ERH1177	0501Y134	10/27/20 1153

Comments: Batch: #87DME-201026A

Laboratory Control Spike Recovery
EPA 8270D MODIFIED WATER

APPL ID: **201026W-20539 LCS - 257898**
Batch ID: #87DME-201026A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	65.3	81.6	30-130

Comments:

Primary	SPK
Quant Method :	YMEE0501.M
Extraction Date :	10/26/20
Analysis Date :	10/27/20
Instrument :	Yoda
Run :	0501Y133
Initials :	MA

Printed: 10/27/20 4:36:47 PM
APPL Standard LCS

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No:
Case No: Date Analyzed: 05/01/20
Matrix: Soil Instrument: Yoda
ID: 0501Y002.D Time Analyzed: 9:23

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		50ug/ml MEE 05/01/20	0501Y003.D	05/01/20 9:39
2		100ug/ml MEE 05/01/2	0501Y004.D	05/01/20 10:03
3		200ug/ml MEE 05/01/2	0501Y006.D	05/01/20 10:51
4		400ug/ml MEE 05/01/2	0501Y007.D	05/01/20 11:24
5		500ug/ml MEE 05/01/2	0501Y008.D	05/01/20 11:48
6		600ug/ml MEE 05/01/2	0501Y009.D	05/01/20 12:13
7		800ug/ml MEE 05/01/2	0501Y010.D	05/01/20 12:37
8		1000ug/ml MEE 05/01/	0501Y011.D	05/01/20 13:01
9		SSug/ml MEE 05/01/20	0501Y013.D	05/01/20 13:50
10				
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18				
19				
20				
21				
22				

m/e		
51	10 - 80% of mass 198	40.1
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.5
127	10 - 80% of mass 198	52.5
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.8
275	10 - 60% of mass 198	26.7
365	1 - 100% of mass 198	2.8
441	0.01 - 24% of mass 442	3.9
442	50 - 500% of mass 198	71.6
443	15 - 24% of mass 442	19.8

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93803
Case No: 93803 Date Analyzed: 10/27/20
Matrix: Water Instrument: Yoda
ID: 0501Y130.D Time Analyzed: 10:27

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		500ug/ml MEE 05/01/2	0501Y131.D	10/27/20 10:42
2	Blank	201026A BLK 2/500	0501Y132.D	10/27/20 11:06
3	Lab Control Spike	201026A LCS-1 2/500	0501Y133.D	10/27/20 11:30
4	ERH1177	BA20486W12 2/500	0501Y134.D	10/27/20 11:53
5		500ug/ml MEE 05/01/2	0501Y141.D	10/27/20 14:38
6				
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19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	35.6
68	0 - 2.04% of mass 69	0.0
70	0 - 2.04% of mass 69	0.3
127	10 - 80% of mass 198	49.1
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.9
275	10 - 60% of mass 198	26.6
365	1 - 100% of mass 198	2.7
441	0.01 - 24% of mass 442	10.1
442	50 - 500% of mass 197.95	70.8
443	15 - 24% of mass 442	19.9

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 0501Y131.D Date Analyzed: 10/27/20

Instrument ID: Yoda Time Analyzed: 10:42

GC Column: ID: Heated Purge: (Y/N)

	1,4-dichlorobenzene-D4(IS)							
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
	12 HOUR STD	179268	5.37					
	UPPER LIMIT	358536	5.54					
	LOWER LIMIT	89634	5.20					
	SAMPLE NO.							
01	201026A BLK 2/500	175209	5.36					
02	201026A LCS-1 2/500	187647	5.36					
03	BA20486W12 2/500	171519	5.37					
04	500ug/ml MEE 05/01/20	143100	5.37					
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/24/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201023AZ-LCS	Lab Control Spike	81-118	101		85-114	100	
201023AZ-LCSD	Lab Control SpikeD	81-118	100		85-114	100	
201023AZ-BLK	Blank	81-118	101		85-114	103	
BA20485	ERH1176	81-118	101		85-114	104	
BA20486	ERH1177	81-118	100.0		85-114	104	

Comments: Batch: #86BTO-201023AZ

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/24/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201023AZ-LCS	Lab Control Spike	80-119	103		89-112	105	
201023AZ-LCSD	Lab Control SpikeD	80-119	103		89-112	104	
201023AZ-BLK	Blank	80-119	105		89-112	104	
BA20485	ERH1176	80-119	103		89-112	107	
BA20486	ERH1177	80-119	102		89-112	107	

Comments: Batch: #86BTO-201023AZ

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
Blank ID:	201023AZ-BLK	Time Analyzed:	0218

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ-LCS	Lab Control Spike	1023Z33	10/24/20 0023
201023AZ-LCSD	Lab Control SpikeD	1023Z34	10/24/20 0046
201023AZ-BLK	Blank	1023Z38	10/24/20 0218
BA20485	ERH1176	1023Z46	10/24/20 0523
BA20486	ERH1177	1023Z47	10/24/20 0546

Comments: Batch: #86BTO-201023AZ

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: **201023W-20539 - 257892**
Batch ID: #86BTO-201023AZ

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
BLANK	SURROGATE: 1,2-DICHLOROET	101	81-118			%	10/24/20	10/24/20
BLANK	SURROGATE: 4-BROMOFLUORO	103	85-114			%	10/24/20	10/24/20
BLANK	SURROGATE: DIBROMOFLUOR	105	80-119			%	10/24/20	10/24/20
BLANK	SURROGATE: TOLUENE-D8 (S)	104	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z38
Instrument: ZEUS
Sequence: 201023
Initials: DG

GC SC-Blank-REG MDLs-DOD
Printed: 10/27/20 1:39:03 PM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
LCS ID:	201023AZ-LCS	Time Analyzed:	0023

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ-LCS	Lab Control Spike	1023Z33	10/24/20 0023
201023AZ-LCSD	Lab Control SpikeD	1023Z34	10/24/20 0046
201023AZ-BLK	Blank	1023Z38	10/24/20 0218
BA20485	ERH1176	1023Z46	10/24/20 0523
BA20486	ERH1177	1023Z47	10/24/20 0546

Comments: Batch: #86BTO-201023AZ

Laboratory Control Spike Recoveries
EPA 8260B BTEX WATER

APPL ID: **201024W-20539 LCS - 257892**
Batch ID: #86BTO-201023AZ

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	9.41	9.23	94.1	92.3	79-120	1.9	20
ETHYLBENZENE	10.00	9.34	9.36	93.4	93.6	79-121	0.21	20
TOLUENE	10.00	9.15	9.15	91.5	91.5	80-121	0.0	20
XYLENES (TOTAL)	30.0	27.9	27.9	93.0	93.0	79-121	0.0	20
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	25.2	25.1	101	100	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.1	25.1	100	100	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	25.8	25.7	103	103	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	26.2	25.9	105	104	89-112		

Comments:

Primary	SPK	DUP
Quant Method :	Z1023W.M	Z1023W.M
Extraction Date :	10/24/20	10/24/20
Analysis Date :	10/24/20	10/24/20
Instrument :	ZEUS	ZEUS
Run :	1023Z33	1023Z34
Initials :	DG	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1023Z05.D

SDG No:
Date Analyzed: 10/23/20
Instrument: ZEUS
Time Analyzed: 13:28

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		0.3ug/L VOC STD 10/2	1023Z12.D	10/23/20 16:16
2		0.5ug/L VOC STD 10/2	1023Z13.D	10/23/20 16:39
3		1ug/L VOC STD 10/23/	1023Z14.D	10/23/20 17:02
4		2ug/L VOC STD 10/23/	1023Z15.D	10/23/20 17:26
5		5ug/L VOC STD 10/23/	1023Z16.D	10/23/20 17:49
6		10ug/L VOC STD 10/23	1023Z17.D	10/23/20 18:12
7		20ug/L VOC STD 10/23	1023Z18.D	10/23/20 18:35
8		40ug/L VOC STD 10/23	1023Z19.D	10/23/20 18:58
9		100ug/L VOC STD 10/2	1023Z20.D	10/23/20 19:21
10		(SS)10ug/L VOC STD 1	1023Z22.D	10/23/20 20:07
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	18.0
75	30 - 60% of mass 95	43.9
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	7.2
173	0 - 2.05% of mass 174	0.0
174	50 - 200% of mass 95	70.6
175	5 - 9% of mass 174	7.2
176	95 - 101% of mass 174	96.5
177	5 - 9% of mass 176	6.8

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93803
Case No: 93803 Date Analyzed: 10/23/20
Matrix: Water Instrument: ZEUS
ID: 1023Z30.D Time Analyzed: 23:13

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		201023A CCV 10ug/L	1023Z32.D	10/24/20 0:00
2	Lab Control Spike	201023A LCS 10ug/L	1023Z33.D	10/24/20 0:23
3	Lab Control SpikeD	201023A LCSD 10ug/L	1023Z34.D	10/24/20 0:46
4	Blank	201023A BLK	1023Z38.D	10/24/20 2:18
5	ERH1176	BA20485W01	1023Z46.D	10/24/20 5:23
6	ERH1177	BA20486W01	1023Z47.D	10/24/20 5:46
7		Ending CCV 10ug/L 10	1023Z52.D	10/24/20 7:41
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	16.7
75	30 - 60% of mass 95	42.1
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.8
173	0 - 2.05% of mass 174	0.5
174	50 - 200% of mass 95	90.6
175	5 - 9% of mass 174	7.2
176	95 - 101% of mass 174	97.7
177	5 - 9% of mass 176	6.9

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1023Z17.D Date Analyzed: 10/23/20

Instrument ID: ZEUS Time Analyzed: 18:12

GC Column: ID: Heated Purge: (Y/N)

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2263170	5.02	1720200	7.67	1020670	9.88
	UPPER LIMIT	4526340	5.19	3440400	7.84	2041340	10.05
	LOWER LIMIT	1131585	4.85	860100	7.50	510335	9.71
	SAMPLE NO.						
01	(SS)10ug/L VOC STD 1	2348020	5.02	1771920	7.67	1042870	9.88
02	201023A LCS 10ug/L	2146750	5.02	1614290	7.67	938690	9.88
03	201023A LCSD 10ug/L	2159390	5.02	1623520	7.67	942459	9.88
04	201023A BLK	2010660	5.02	1515460	7.67	869793	9.88
05	BA20485W01	1799070	5.02	1327150	7.67	697091	9.88
06	BA20486W01	1781500	5.02	1303390	7.67	683330	9.88
07	Ending CCV 10ug/L 10/2	1846550	5.02	1311030	7.67	722561	9.88
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/24/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
201023AZ-LCS	Lab Control Spike	85-114	101				
201023AZ-LCSD	Lab Control SpikeD	85-114	101				
201023AZ-BLK	Blank	85-114	103				
BA20485	ERH1176	85-114	104				
BA20486	ERH1177	85-114	104				

Comments: Batch: #GRO86-201023AZ

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
Blank ID:	201023AZ-BLK	Time Analyzed:	0218

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ-LCS	Lab Control Spike	1023Z36	10/24/20 0132
201023AZ-LCSD	Lab Control SpikeD	1023Z37	10/24/20 0155
201023AZ-BLK	Blank	1023Z38	10/24/20 0218
BA20485	ERH1176	1023Z46	10/24/20 0523
BA20486	ERH1177	1023Z47	10/24/20 0546

Comments: Batch: #GRO86-201023AZ

Method Blank
EPA 8260B GRO WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201023W-20539 - 257875**
Batch ID: #GRO86-201023AZ

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
BLANK	SURROGATE: 4-BROMOFLUORO	103	85-114			%	10/24/20	10/24/20

Quant Method:ZGAS1023.M
Run #:1023Z38
Instrument:ZEUS
Sequence:201023
Initials:DG

GC SC-Blank-REG MDLs-DOD
Printed: 10/27/20 1:47:26 PM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
LCS ID:	201023AZ-LCS	Time Analyzed:	0132

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ-LCS	Lab Control Spike	1023Z36	10/24/20 0132
201023AZ-LCSD	Lab Control SpikeD	1023Z37	10/24/20 0155
201023AZ-BLK	Blank	1023Z38	10/24/20 0218
BA20485	ERH1176	1023Z46	10/24/20 0523
BA20486	ERH1177	1023Z47	10/24/20 0546

Comments: Batch: #GRO86-201023AZ

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: **201024W-20539 LCS - 257875**
Batch ID: #GRO86-201023AZ

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	277	278	92.3	92.7	78-122	0.36	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.2	25.2	101	101	85-114		

Comments:

Primary	SPK	DUP
Quant Method :	ZGAS1023.M	ZGAS1023.M
Extraction Date :	10/24/20	10/24/20
Analysis Date :	10/24/20	10/24/20
Instrument :	ZEUS	ZEUS
Run :	1023Z36	1023Z37
Initials :	DG	

RSK 175

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/27/20
Matrix:	WATER	Instrument:	Rocky
Blank ID:	201027A-BLK	Time Analyzed:	1558

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201027A-LCS	Lab Control Spike	1027R02	10/27/20 1555
201027A-BLK	Blank	1027R03	10/27/20 1558
BA20485	ERH1176	1027R04	10/27/20 1601
BA20486	ERH1177	1027R05	10/27/20 1605
201027A-LCSD	Lab Control SpikeD	1027R18	10/27/20 1637

Comments: Batch: #RSKME-201027A

Method Blank
METHANE

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201027W-20539 - 257902**
Batch ID: #RSKME-201027A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/27/20	10/27/20

Quant Method: RSK0914A.M
Run #: 1027R03
Instrument: Rocky
Sequence: 200914
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 10/27/20 4:44:17 PM

RSK 175

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/27/20
Matrix:	WATER	Instrument:	Rocky
LCS ID:	201027A-LCS	Time Analyzed:	1555

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201027A-LCS	Lab Control Spike	1027R02	10/27/20 1555
201027A-BLK	Blank	1027R03	10/27/20 1558
BA20485	ERH1176	1027R04	10/27/20 1601
BA20486	ERH1177	1027R05	10/27/20 1605
201027A-LCSD	Lab Control SpikeD	1027R18	10/27/20 1637

Comments: Batch: #RSKME-201027A

Laboratory Control Spike Recoveries
METHANE

APPL ID: **201027W-20539 LCS - 257902**
Batch ID: #RSKME-201027A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	73.2	67.1	87.8	80.5	72-125	8.7	30

Comments:

Primary	SPK	DUP
Quant Method :	RSK0914A.M	RSK0914A.M
Extraction Date :	10/27/20	10/27/20
Analysis Date :	10/27/20	10/27/20
Instrument :	Rocky	Rocky
Run :	1027R02	1027R18
Initials :	GAG	

EPA 300.0

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/21/20
Matrix:	WATER	Instrument:	Charlie
Blank ID:	201021A-BLK	Time Analyzed:	1722

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-LCSD	Lab Control SpikeD	10	10/21/20 1817
201021A-LCS	Lab Control Spike	6	10/21/20 1707
201021A-BLK	Blank	7	10/21/20 1722
BA20486	ERH1177	8	10/21/20 1737
BA20486	ERH1177	9	10/21/20 1802

Comments: Batch: #300W-201021A

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
EPA 300.0	CHLORIDE	0.20 U	1.0	0.20	0.08	mg/L	10/21/20	10/21/20	#300W-201021A-BA20486
EPA 300.0	NITRATE	0.18 U	0.5	0.18	0.04	mg/L	10/21/20	10/21/20	#300W-201021A-BA20486
EPA 300.0	SULFATE	0.20 U	1.0	0.20	0.09	mg/L	10/21/20	10/21/20	#300W-201021A-BA20486

Wetlab SC-Blank-REG MDLs
Printed: 10/27/20 6:22:16 PM

EPA 300.0

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/21/20
Matrix:	WATER	Instrument:	Charlie
LCS ID:	201021A-LCS	Time Analyzed:	1707

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-LCSD	Lab Control SpikeD	10	10/21/20 1817
201021A-LCS	Lab Control Spike	6	10/21/20 1707
201021A-BLK	Blank	7	10/21/20 1722
BA20486	ERH1177	8	10/21/20 1737
BA20486	ERH1177	9	10/21/20 1802

Comments: Batch: #300W-201021A

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	CHLORIDE	25.0	25.9	26.1	104	104	0.77	20	90-110	10/21/20	10/21/20	10/21/20	10/21/20	#300W-201021A-BA20486
EPA 300.0	NITRATE	22.1	22.9	22.9	104	104	0.0	20	90-110	10/21/20	10/21/20	10/21/20	10/21/20	#300W-201021A-BA20486
EPA 300.0	SULFATE	25.0	25.7	25.7	103	103	0.0	20	90-110	10/21/20	10/21/20	10/21/20	10/21/20	#300W-201021A-BA20486

Comments:

EPA 353.2

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/22/20
Matrix:	WATER	Instrument:	EVE
Blank ID:	201022A1-BLK	Time Analyzed:	2021

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A1-BLK	Blank	12	10/22/20 2021
201022A1-LCS	Lab Control Spike	13	10/22/20 2023
201022A1-LCSD	Lab Control SpikeD	14	10/22/20 2025
BA20486	ERH1177	16	10/22/20 2030

Comments: Batch: #353TO-201022A1

SM 2320B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/21/20
Matrix:	WATER	Instrument:	Tiamo
Blank ID:	201021A-BLK	Time Analyzed:	1636

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1	10/21/20 1636
201021A-LCSD	Lab Control SpikeD	2	10/21/20 1647
BA20486	ERH1177	24	10/21/20 1947
201021A-LCS	Lab Control Spike	9	10/21/20 1742

Comments: Batch: #232W-201021A

SM3500FeB

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Manual Spec
Blank ID:	A201023-BLK	Time Analyzed:	1842

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A201023-BLK	Blank	28	10/23/20 1842
A201023-LCS	Lab Control Spike	30	10/23/20 1843
A201023-LCSD	Lab Control SpikeD	32	10/23/20 1844
BA20486	ERH1177	38	10/23/20 1946

Comments: Batch: #35FE-A201023

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93803

Case No: 93803 Date Analyzed: 10/22/20

Matrix: WATER Instrument: TICTOC

Blank ID: 201021A-BLK Time Analyzed: 0154

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	28	10/22/20 0154
201021A-LCS	Lab Control Spike	29	10/22/20 0234
201021A-LCSD	Lab Control SpikeD	30	10/22/20 0314
BA20486	ERH1177	38	10/22/20 0809

Comments: Batch: #TOCW5-201021A

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	BICARBONATE AS	1.2 J	2.0	1.70	0.85	mg/L	10/21/20	10/21/20	#232W-201021A-BA20054
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	10/21/20	10/21/20	#232W-201021A-BA20054
SM 2320B	TOTAL ALKALINITY	1.2 J	2.0	1.70	0.85	mg/L	10/21/20	10/21/20	#232W-201021A-BA20054
EPA 353.2	NITRATE-NITRITE A	0.090 U	0.10	0.090	0.028	mg/L	10/22/20	10/22/20	#353TO-201022A1-BA20539
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	10/23/20	10/23/20	#35FE-A201023-BA20544
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	10/22/20	10/22/20	#TOCW5-201021A-BA20486

EPA 353.2

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/22/20
Matrix:	WATER	Instrument:	EVE
LCS ID:	201022A1-LCS	Time Analyzed:	2023

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A1-BLK	Blank	12	10/22/20 2021
201022A1-LCS	Lab Control Spike	13	10/22/20 2023
201022A1-LCSD	Lab Control SpikeD	14	10/22/20 2025
BA20486	ERH1177	16	10/22/20 2030

Comments: Batch: #353TO-201022A1

SM 2320B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/21/20
Matrix:	WATER	Instrument:	Tiamo
LCS ID:	201021A-LCS	Time Analyzed:	1742

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1	10/21/20 1636
201021A-LCSD	Lab Control SpikeD	2	10/21/20 1647
BA20486	ERH1177	24	10/21/20 1947
201021A-LCS	Lab Control Spike	9	10/21/20 1742

Comments: Batch: #232W-201021A

SM3500FeB

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Manual Spec
LCS ID:	A201023-LCS	Time Analyzed:	1843

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A201023-BLK	Blank	28	10/23/20 1842
A201023-LCS	Lab Control Spike	30	10/23/20 1843
A201023-LCSD	Lab Control SpikeD	32	10/23/20 1844
BA20486	ERH1177	38	10/23/20 1946

Comments: Batch: #35FE-A201023

SW846 9060A

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93803
Case No:	93803	Date Analyzed:	10/22/20
Matrix:	WATER	Instrument:	TICTOC
LCS ID:	201021A-LCS	Time Analyzed:	0234

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	28	10/22/20 0154
201021A-LCS	Lab Control Spike	29	10/22/20 0234
201021A-LCSD	Lab Control SpikeD	30	10/22/20 0314
BA20486	ERH1177	38	10/22/20 0809

Comments: Batch: #TOCW5-201021A

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 353.2	NITRATE-NITRITE AS N	3.00	3.00	3.00	100	100	0.0	20	90-110	10/22/20	10/22/20	10/22/20	10/22/20	#353TO-201022A1-BA205
SM 2320B	BICARBONATE AS CACO3	250	251	226	100	90.4	10.5	20	90-110	10/21/20	10/21/20	10/21/20	10/21/20	#232W-201021A-BA20054
SM 2320B	TOTAL ALKALINITY AS CA	250	269	251	108	100	6.9	20	90-110	10/21/20	10/21/20	10/21/20	10/21/20	#232W-201021A-BA20054
SM3500Fe	FERROUS IRON	3.00	3.01	3.07	100	102	2.0	20	80-120	10/23/20	10/23/20	10/23/20	10/23/20	#35FE-A201023-BA20544
SW846 90	TOTAL ORGANIC CARBO	5.00	4.62	4.75	92.4	95.0	2.8	20	80-120	10/22/20	10/22/20	10/22/20	10/22/20	#TOCW5-201021A-BA204

Comments:

ORGANICS

Calibration Data

TPH Extractables
DOC0905

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Initial Cal. Date: 09/05/20
Instrument: Apollo

Initials: SS/

905007.D 905008.D 905009.D 905010.D 905011.D 905012.D

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
1	HATML	Diesel (C10-C24)	3520375	2214378	2281032	2080486	2123388	2190073					2401622	23	HATM	0.999	
2	HBTM	Motor Oil (C24-C40)		1596138	1576848	1430288	1467043	1498633					1513790	4.7	HBTM		
3	SA	Ortho-Terphenyl(S)		2811060	2679862	2349319	2368660	2417877					2525355	8.2	SA		
4	SA	Octacosane(S)		2182984	2114335	1968540	2003128	2024026					2058603	4.3	SA		
5																	
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1.148404

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905007.D Vial: 7
Acq On : 9-5-20 17:04:35 Operator:
Sample : Diesel Motor Oil-1 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

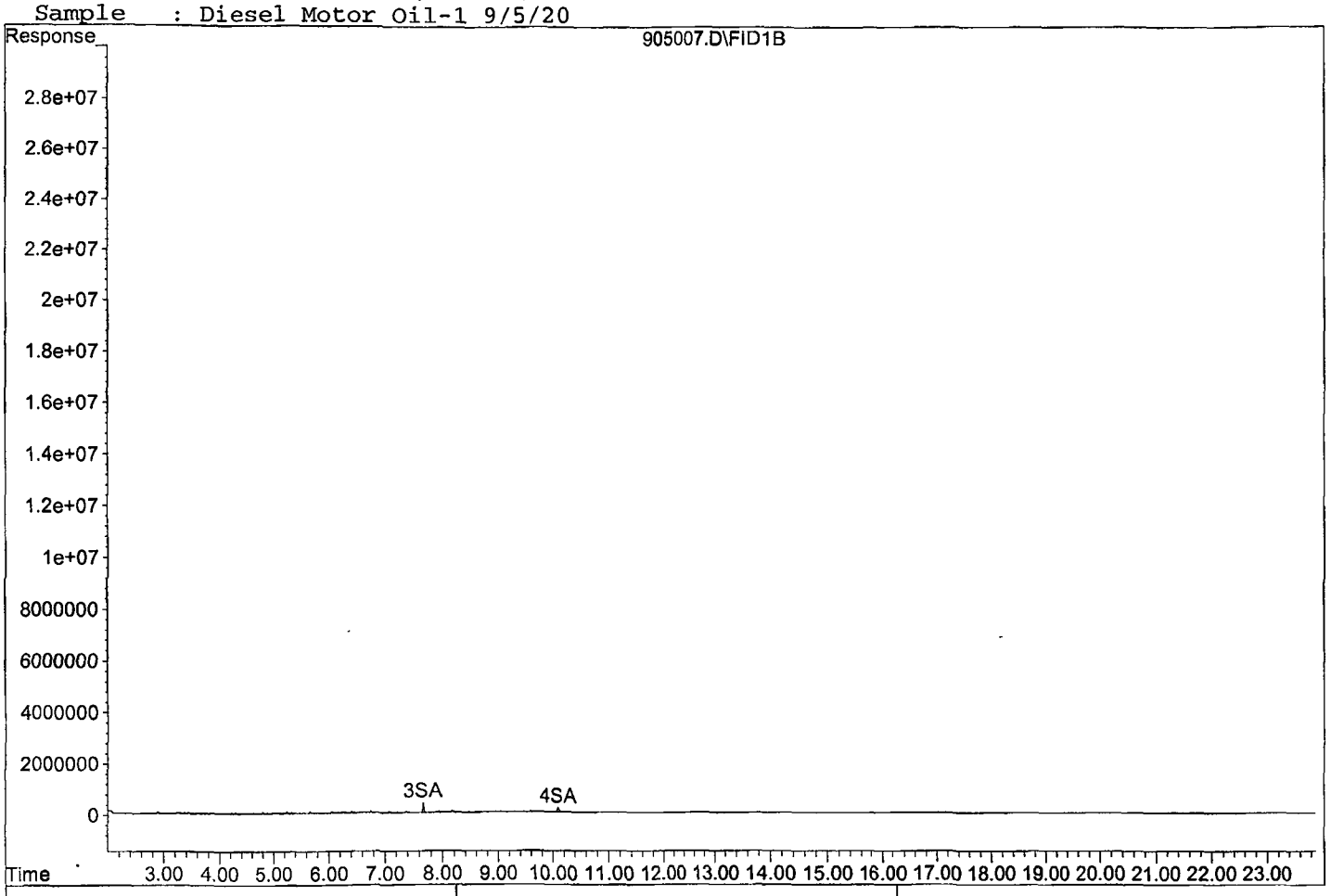
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

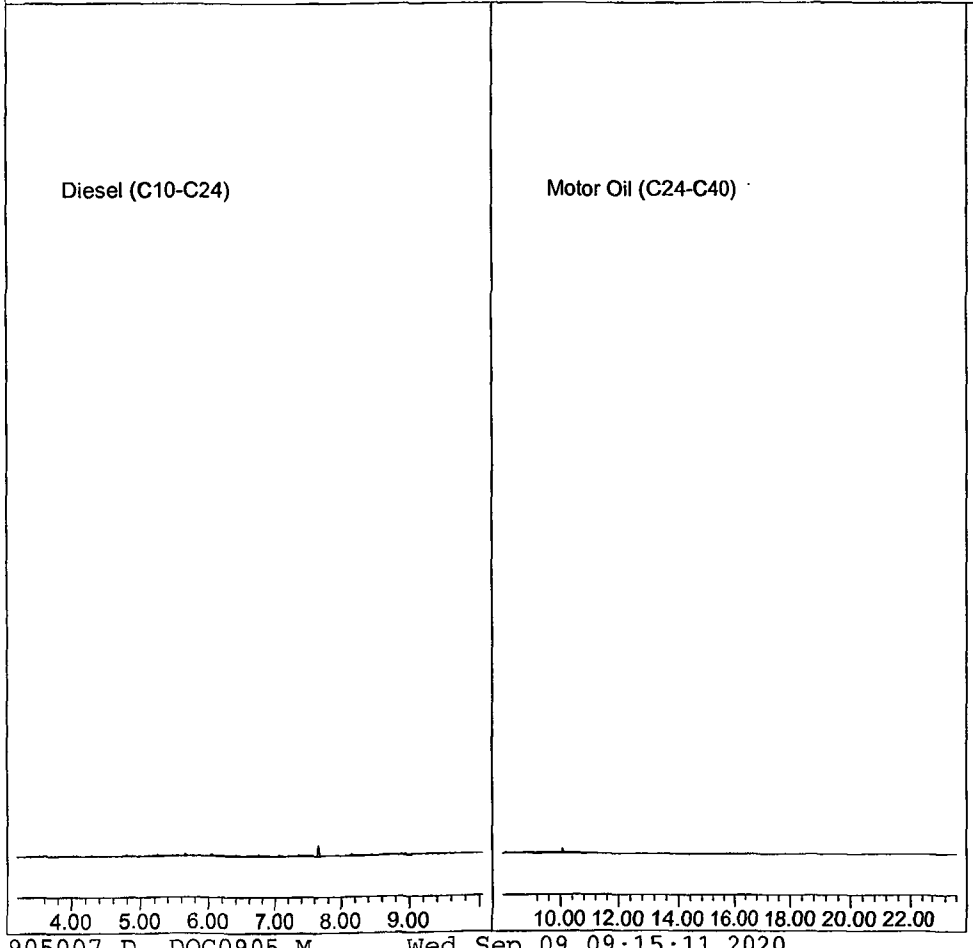
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	4755108	0.463 ppb
Surrogate Spike 30.000	Recovery =		1.54%
4) SA Octacosane(S)	10.09	3753150	0.722 ppb
Surrogate Spike 30.000	Recovery =		2.41%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	70407491	17.223 ppb
2) HBTM Motor Oil (C24-C40)	15.82	77569840	21.354 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905007.D
Sample : Diesel Motor Oil-1 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905008.D Vial: 8
Acq On : 9-5-20 17:32:40 Operator:
Sample : Diesel Motor Oil-2 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

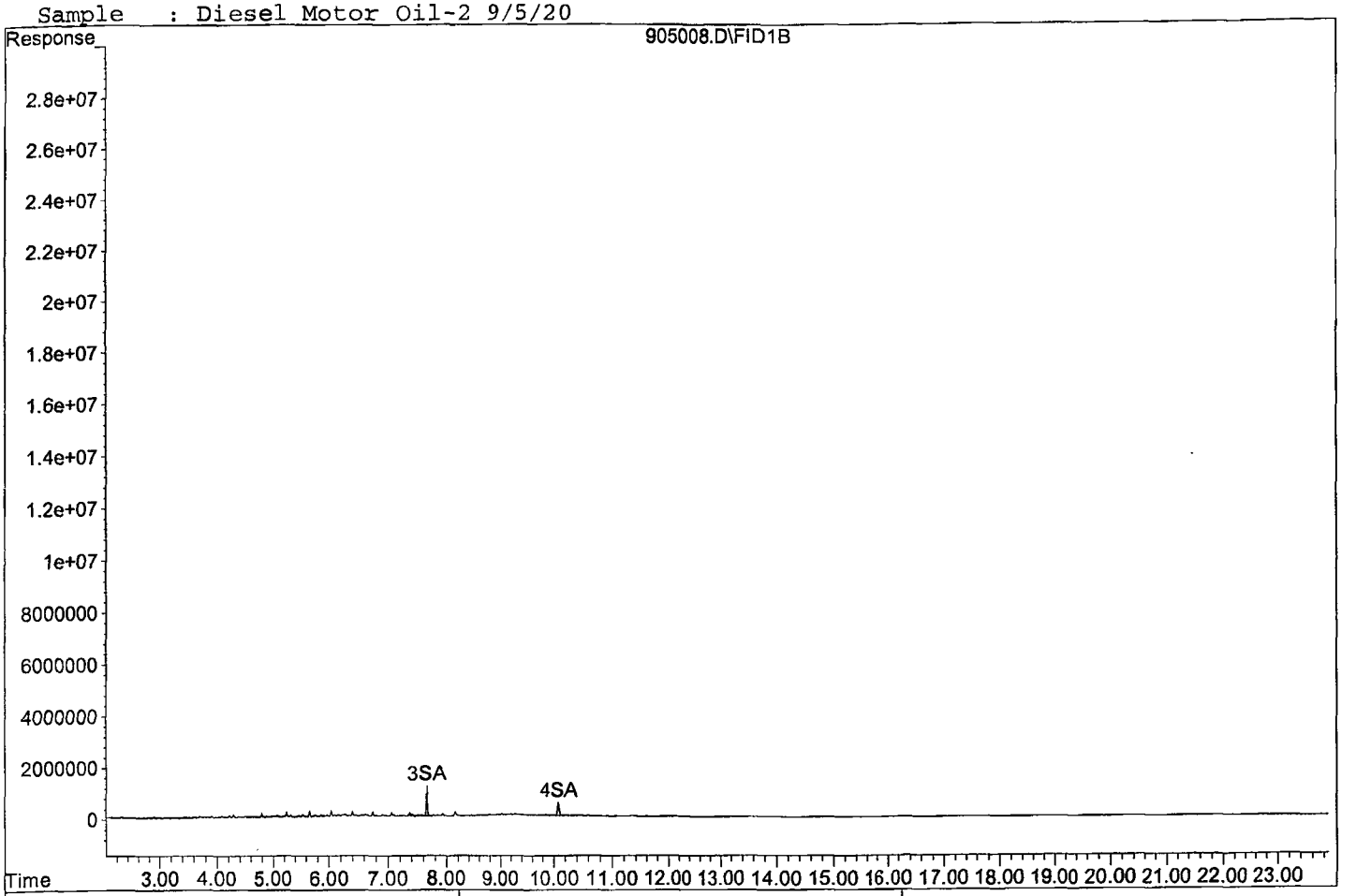
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

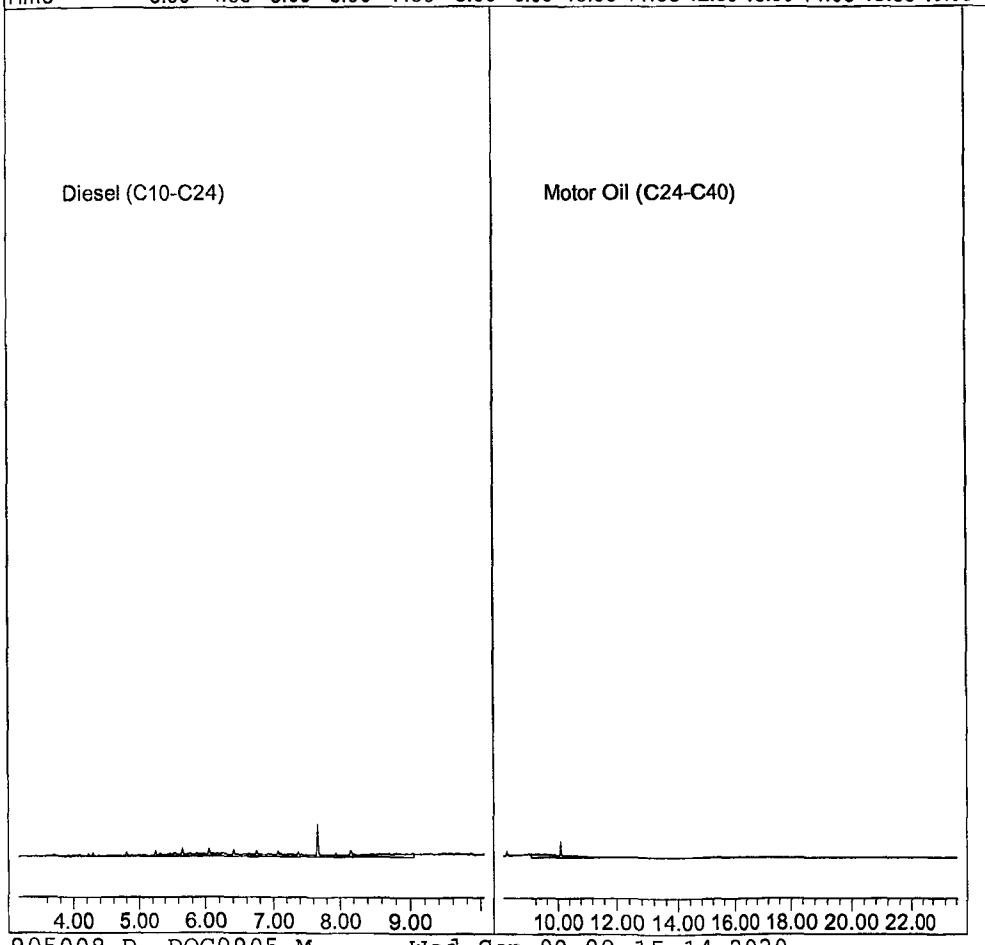
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	14055300	2.417 ppb
Surrogate Spike 30.000	Recovery =		8.06%
4) SA Octacosane(S)	10.08	10914920	2.508 ppb
Surrogate Spike 30.000	Recovery =		8.36%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	221437795	52.238 ppb
2) HBTM Motor Oil (C24-C40)	15.82	159613804	49.156 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905008.D
Sample : Diesel Motor Oil-2 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905009.D Vial: 9
Acq On : 9-5-20 18:00:45 Operator:
Sample : Diesel Motor Oil-3 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

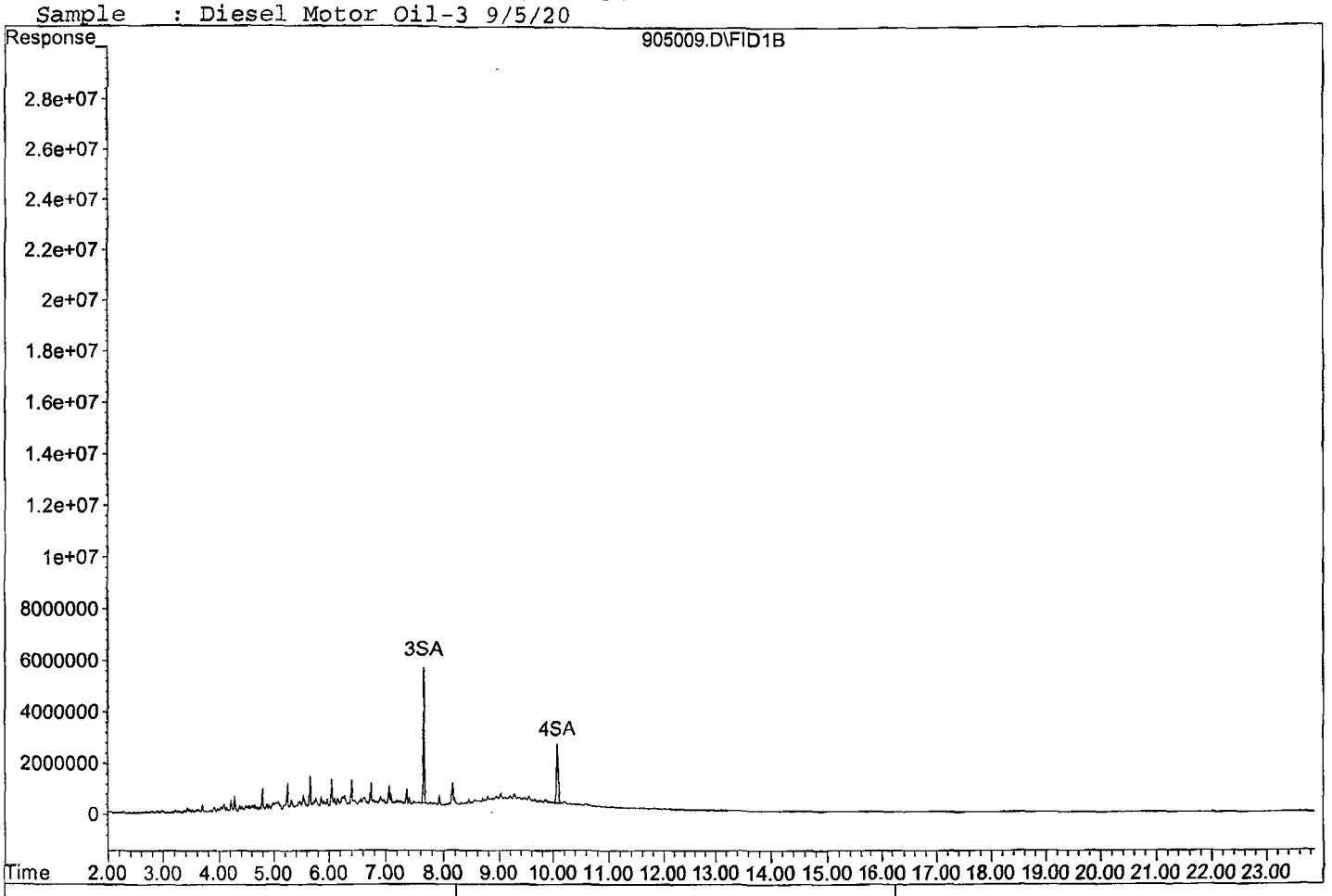
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

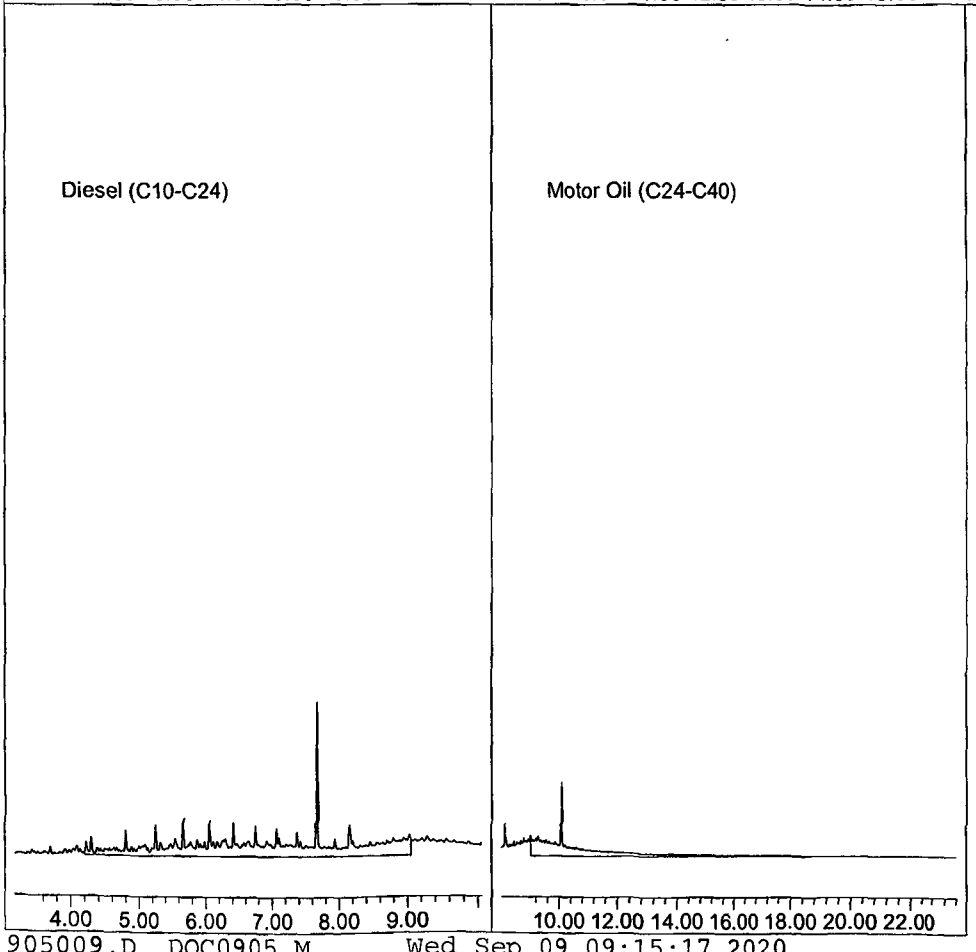
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	66996540	13.544 ppb
Surrogate Spike 30.000	Recovery =		45.15%
4) SA Octacosane(S)	10.09	52858376	12.967 ppb
Surrogate Spike 30.000	Recovery =		43.22%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1140515960	265.317 ppb
2) HBTM Motor Oil (C24-C40)	15.82	788424096	262.237 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File: G:\APOLLO\DATA\200905\905009.D
Sample : Diesel Motor Oil-3 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905010.D Vial: 10
Acq On : 9-5-20 18:28:54 Operator:
Sample : Diesel Motor Oil-4 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

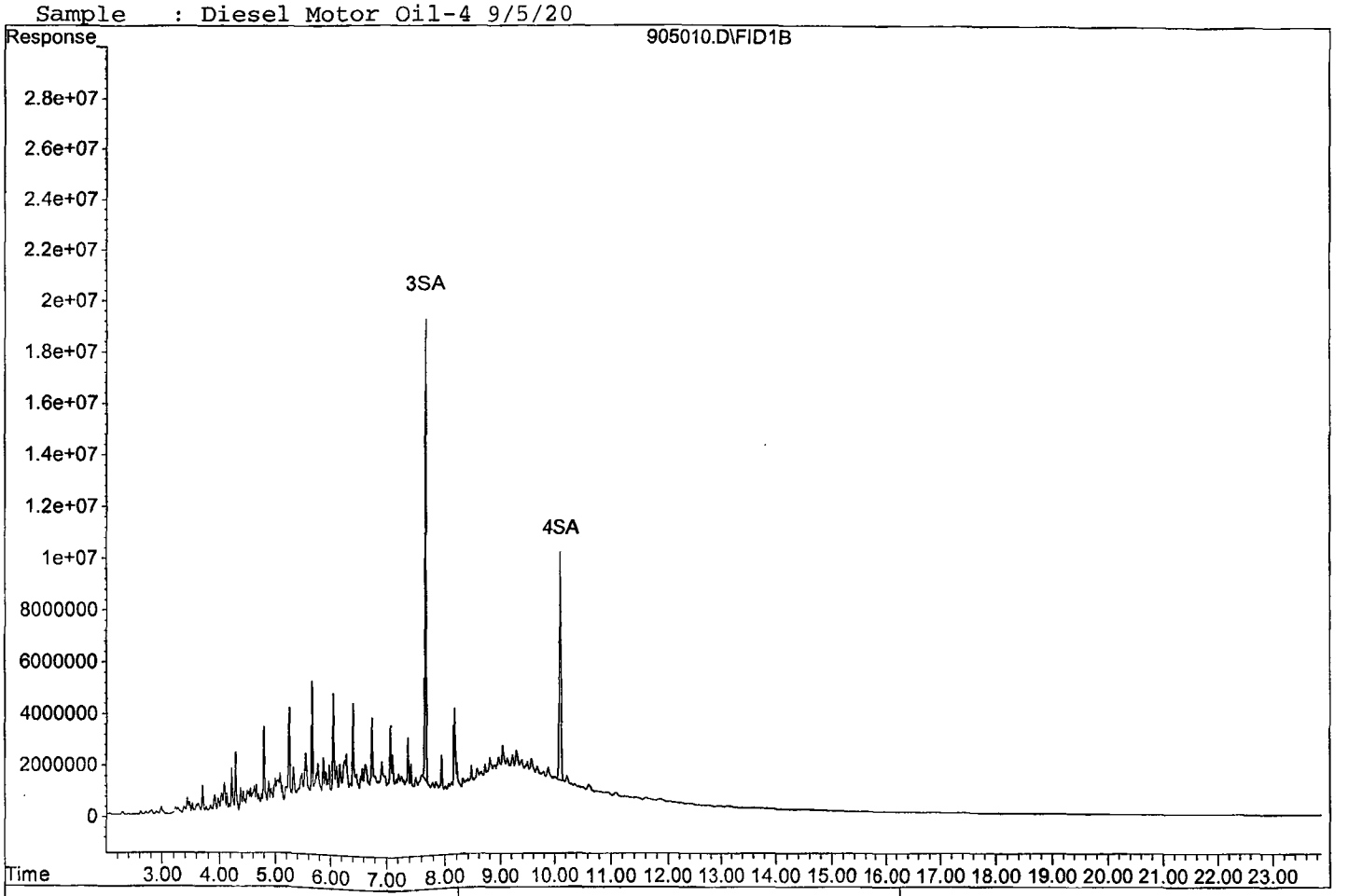
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

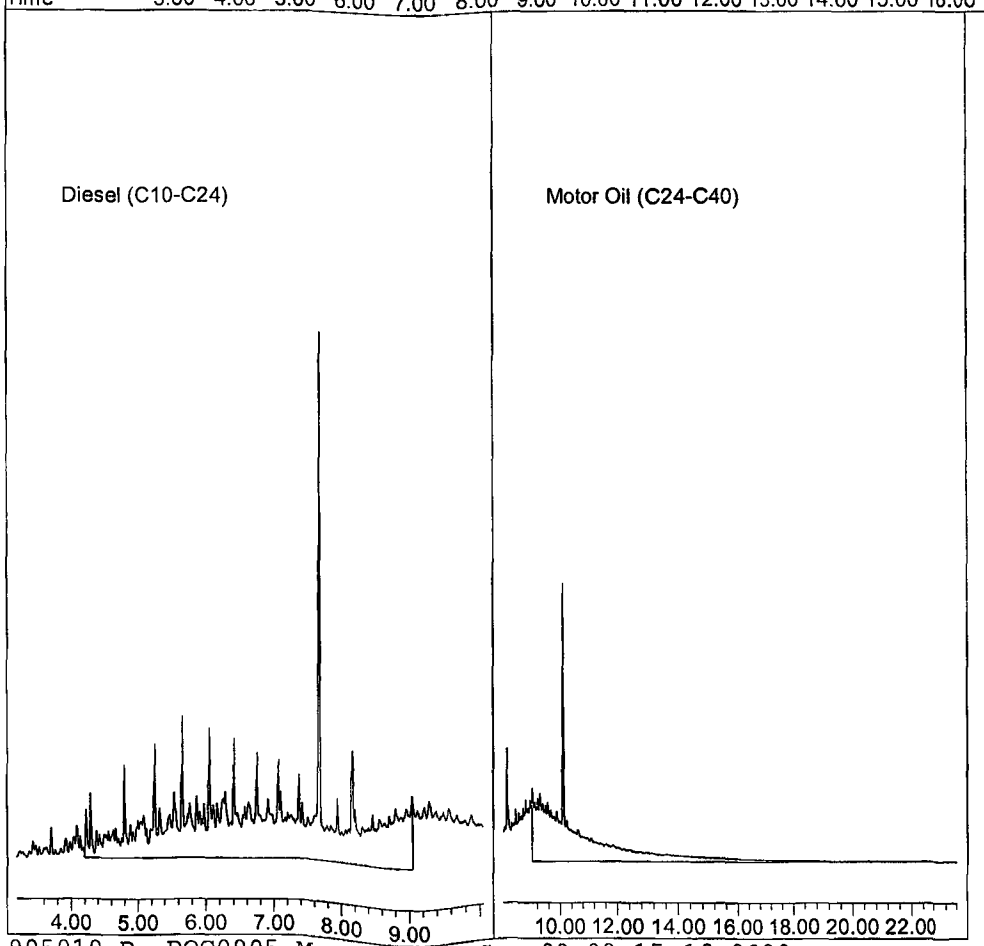
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.67	234931900	48.840	ppb
Surrogate Spike 30.000		Recovery =	162.80%	
4) SA Octacosane(S)	10.11	196853973	48.872	ppb
Surrogate Spike 30.000		Recovery =	162.91%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.62	4160972977	965.579	ppb
2) HBTM Motor Oil (C24-C40)	15.82	2860576922	964.412	ppb
Target Compounds				

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905010.D
Sample : Diesel Motor Oil-4 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905011.D Vial: 11
Acq On : 9-5-20 18:56:54 Operator:
Sample : Diesel Motor Oil-5 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

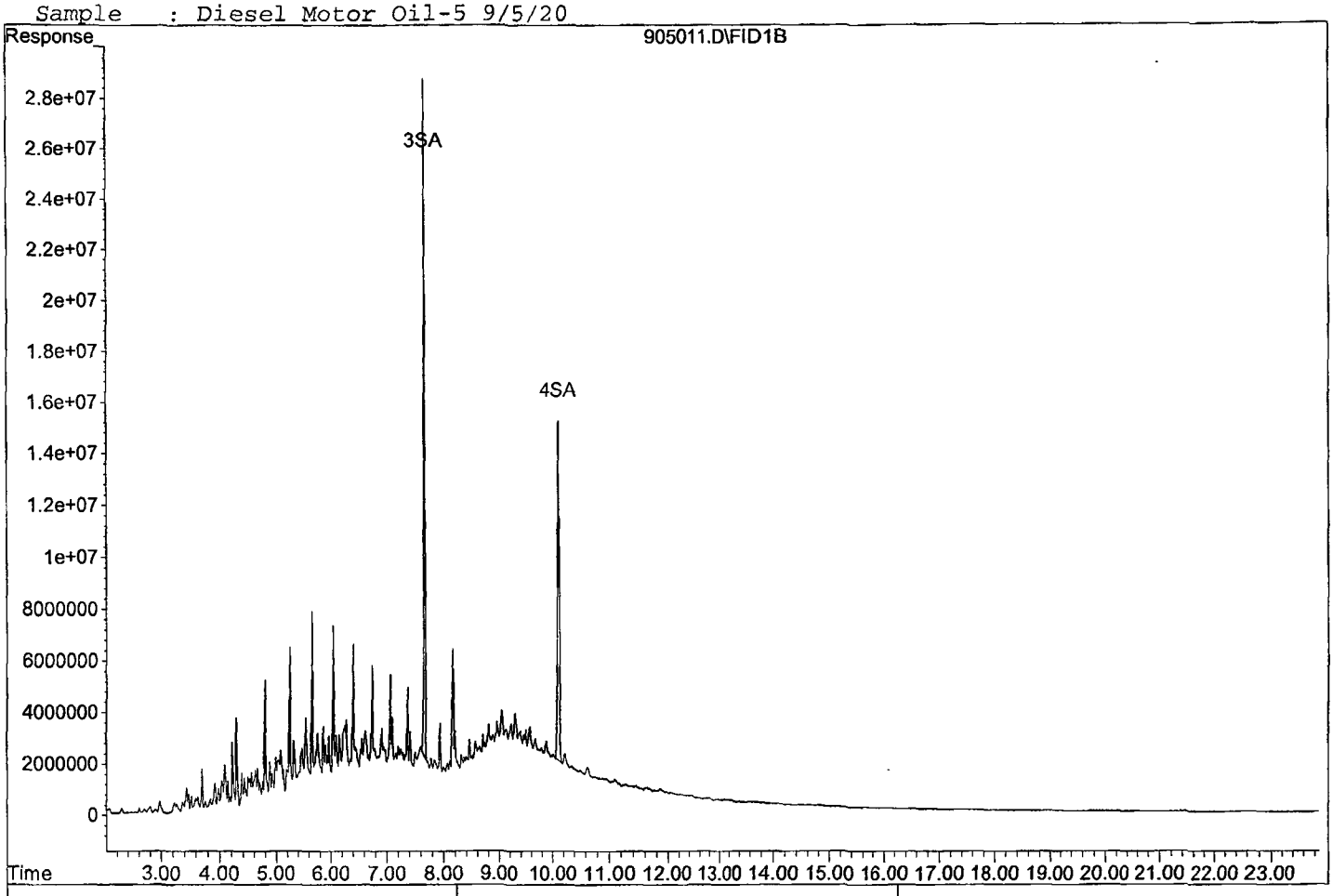
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

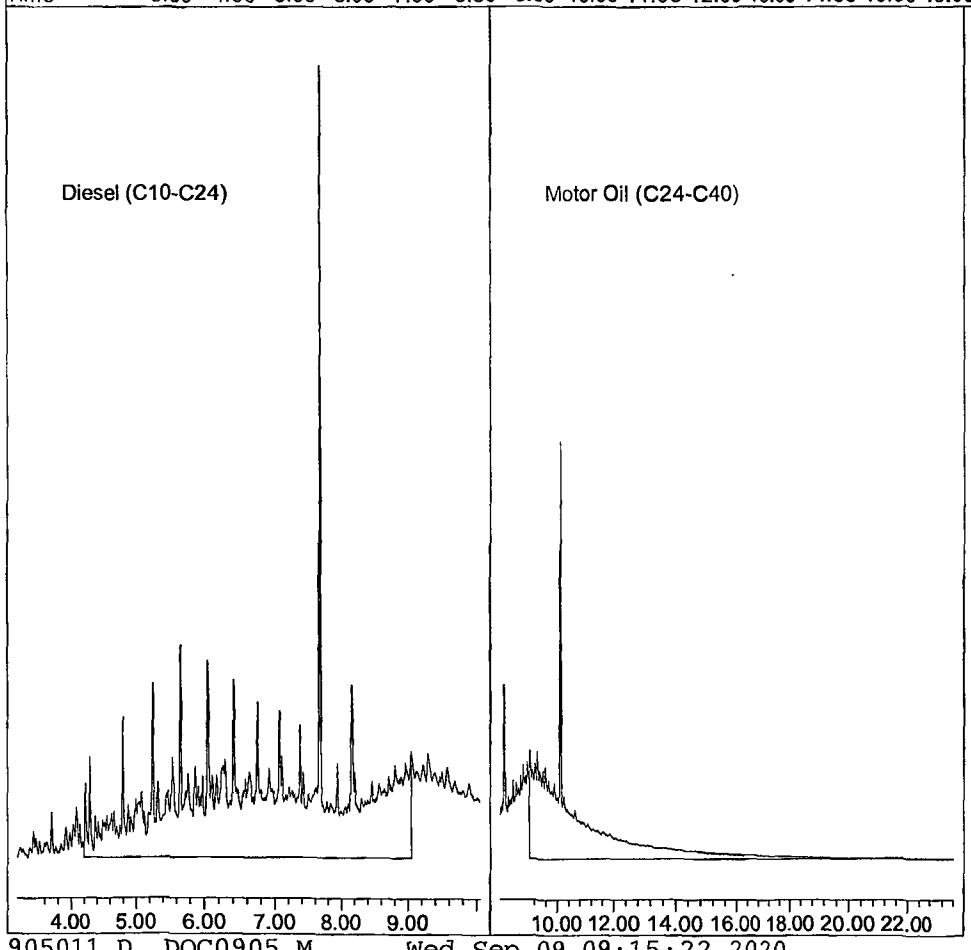
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	355298964	74.138 ppb
Surrogate Spike 30.000		Recovery =	247.13%
4) SA Octacosane(S)	10.12	300469164	74.708 ppb
Surrogate Spike 30.000		Recovery =	249.03%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	6370162550	1477.758 ppb
2) HBTM Motor Oil (C24-C40)	15.82	4401128474	1486.448 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905011.D
Sample : Diesel Motor Oil-5 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905012.D Vial: 12
Acq On : 9-5-20 19:24:55 Operator:
Sample : Diesel Motor Oil-6 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

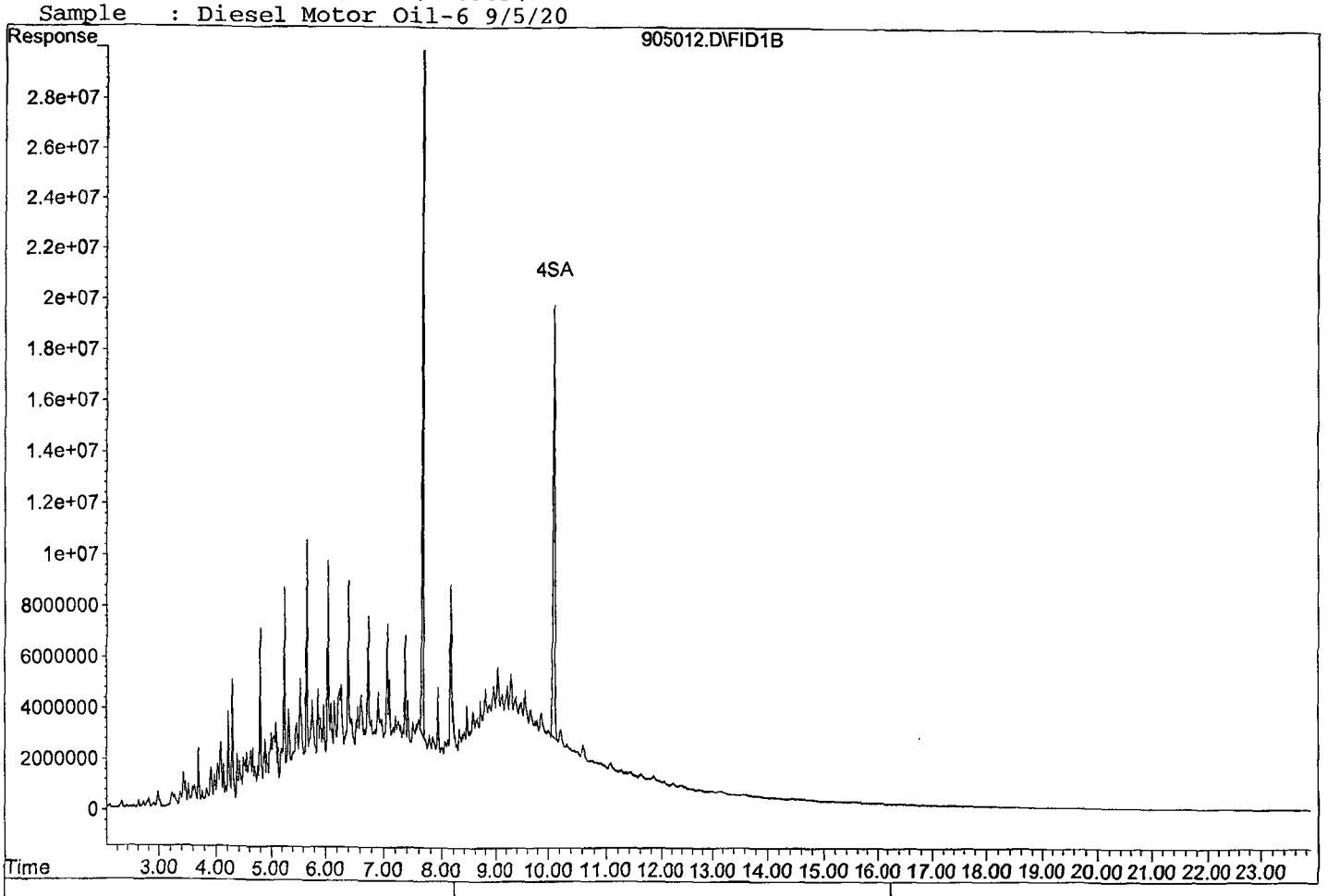
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

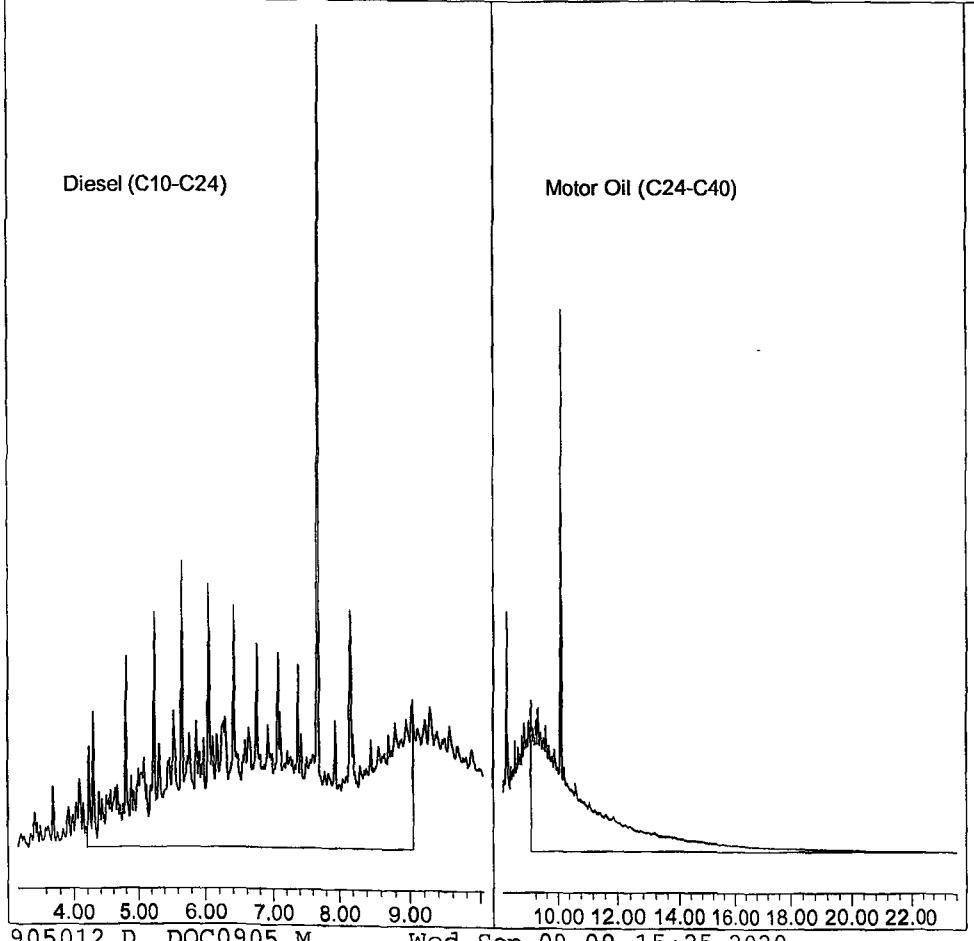
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.68	483575307	101.098 ppb
Surrogate Spike 30.000	Recovery =		336.99%
4) SA Octacosane(S)	10.11	404805297	100.724 ppb
Surrogate Spike 30.000	Recovery =		335.75%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	8760292310	2031.885 ppb
2) HBTM Motor Oil (C24-C40)	15.82	5994530170	2026.393 ppb
Target Compounds			

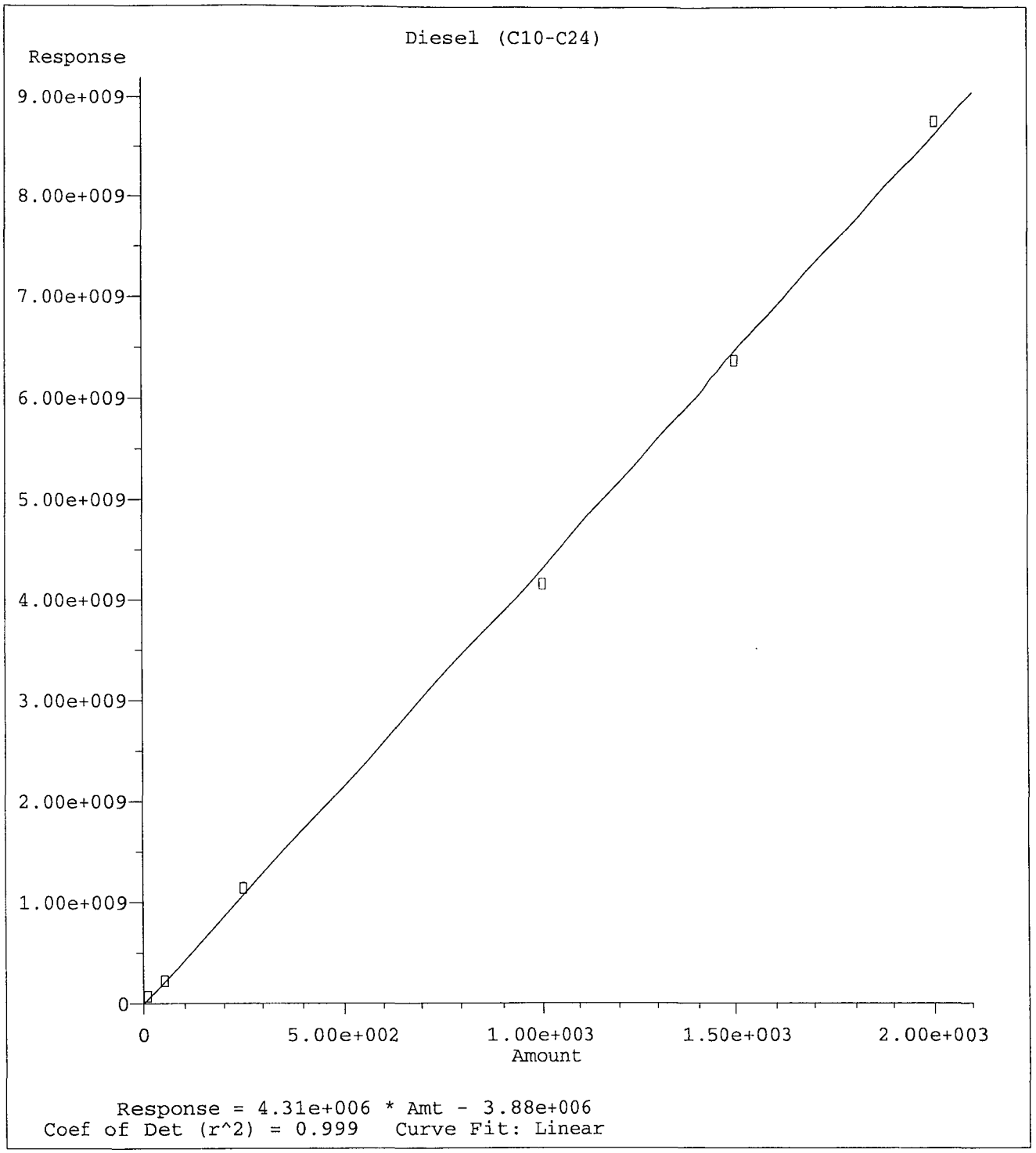
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File: G:\APOLLO\DATA\200905\905012.D
Sample : Diesel Motor Oil-6 9/5/20







Method Name: G:\APOLLO\DATA\200905\DOC0905.M
Calibration Table Last Updated: Wed Sep 09 09:10:41 2020

TPH Extractables
DOC0905

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 09/05/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 905013.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2401620	2384790	0.70	HATML	11
2	HBTM	Motor Oil (C24-C40)	1513790	1737490	15	HBTM	
3							
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		Average			7.9		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905013.D Vial: 13
Acq On : 9-5-20 19:52:52 Operator:
Sample : Diesel Motor Oil-SS 7/21/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

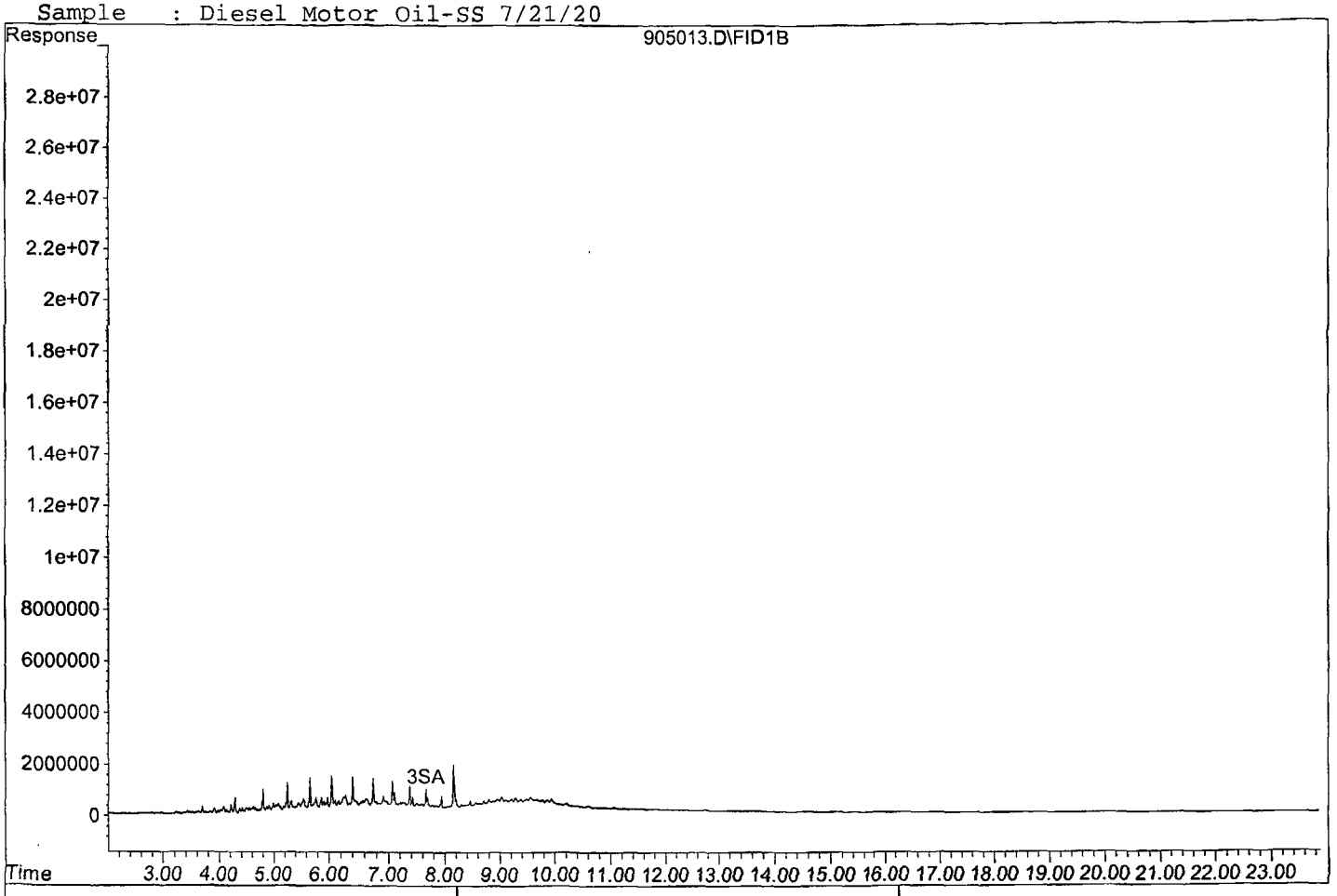
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.66	4757925	0.463	ppb
Surrogate Spike 30.000	Recovery =		1.54%	
4) SA Octacosane(S)	10.06	-2131	N.D.	ppb
Surrogate Spike 30.000	Recovery =		0.00%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.62	1192394512	277.344	ppb
2) HBTM Motor Oil (C24-C40)	15.82	868745074	289.454	ppb

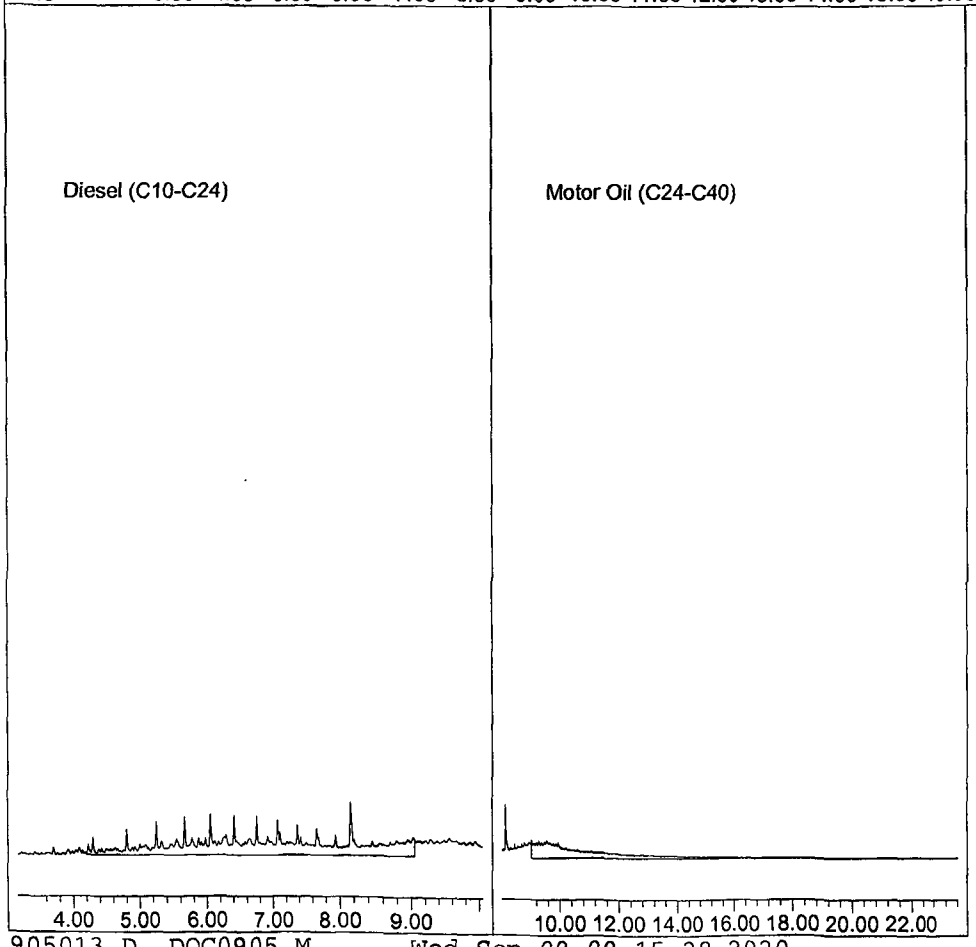
Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File: G:\APOLLO\DATA\200905\905013.D
Sample : Diesel Motor Oil-SS 7/21/20





905013.D DOC0905.M Wed Sep 09 09:15:28 2020

TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/26/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019189.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2252490	6.2	HATML	4.8
2	HBTM	Motor Oil (C24-C40)	1513790	1424910	5.9	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2733940	8.3	SA	
4	SA	Octacosane(S)	2058600	2097320	1.9	SA	
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		Average			5.6		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019189.D Vial: 89
Acq On : 10-26-20 14:37:32 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 26 14:03 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

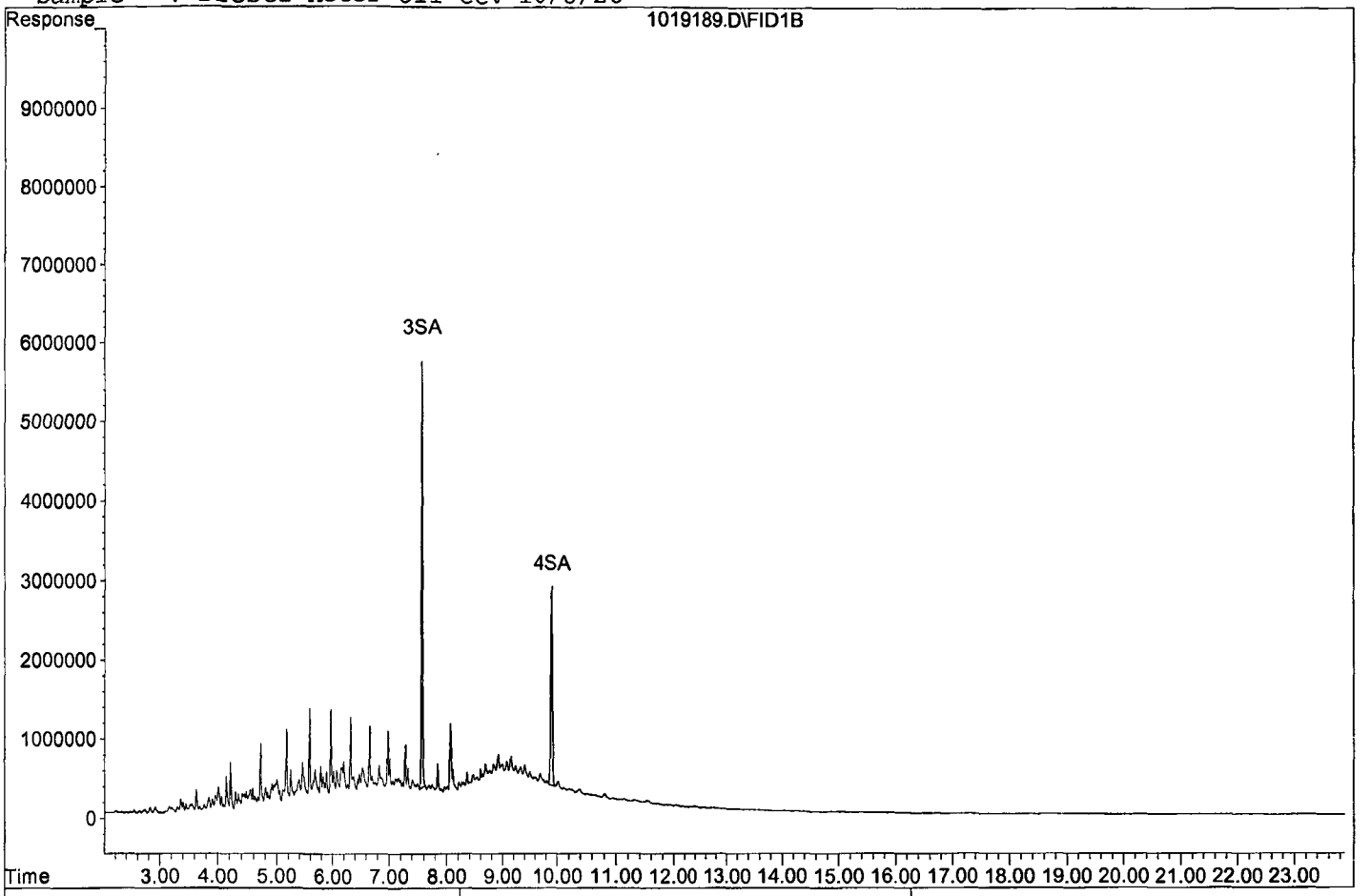
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

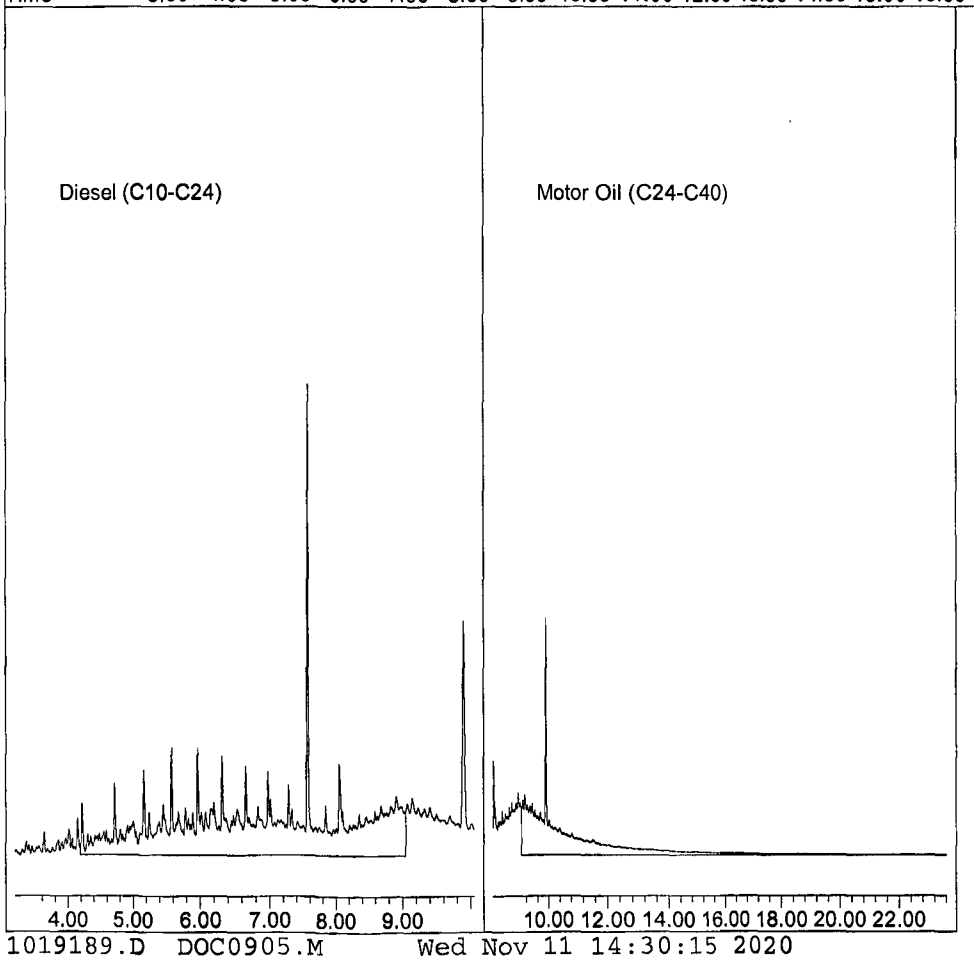
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.57	68348408	13.532	ppb
Surrogate Spike 12.000	Recovery =		112.77%	
4) SA Octacosane(S)	9.90	52432878	12.735	ppb
Surrogate Spike 12.000	Recovery =		106.13%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.62	1126245966	262.008	ppb
2) HBTM Motor Oil (C24-C40)	15.82	712457368	235.322	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019189.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/26/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019204.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2328700	3.0	HATML	8.3
2	HBTM	Motor Oil (C24-C40)	1513790	1442930	4.7	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2807800	11	SA	
4	SA	Octacosane(S)	2058600	2134110	3.7	SA	
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		Average			5.6		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201019\1019204.D Vial: 4
Acq On : 10-26-20 21:54:43 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 6:53 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

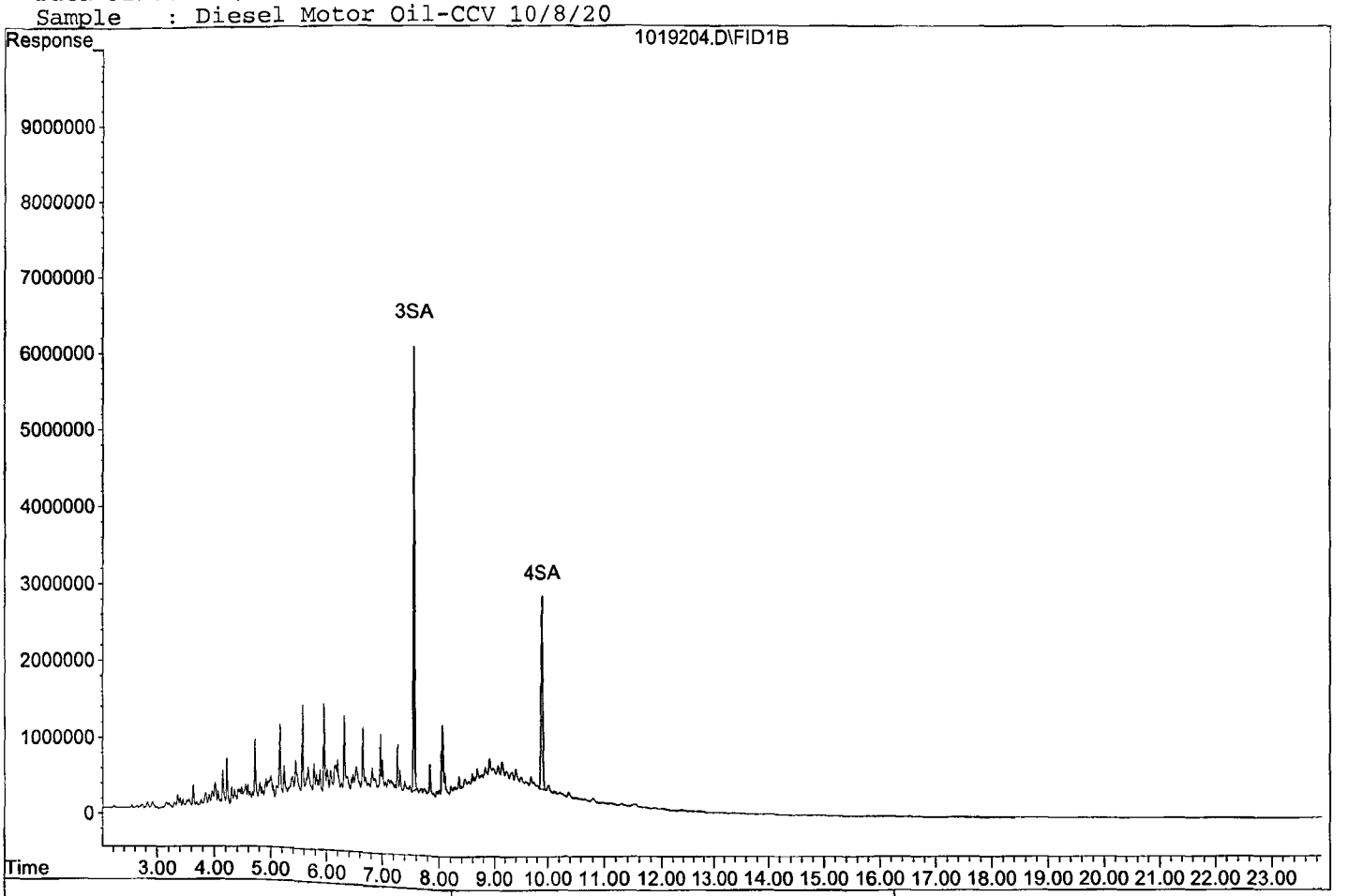
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

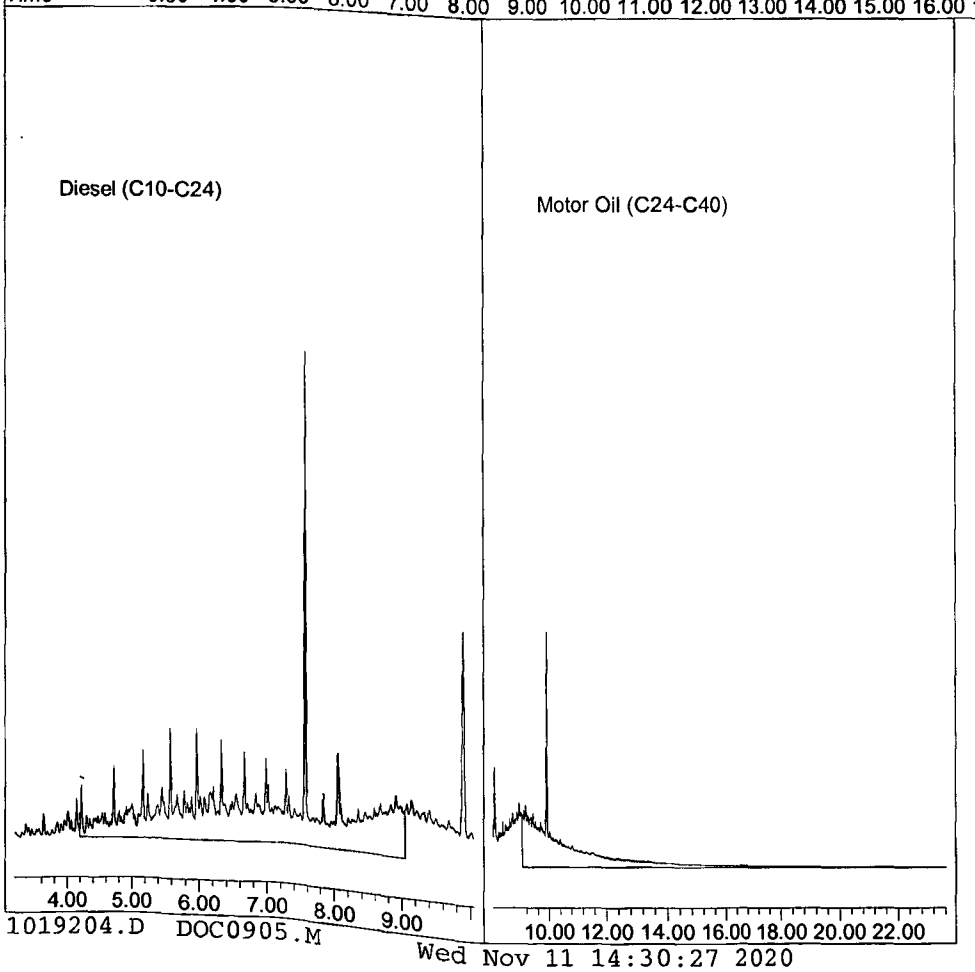
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.57	70195011	13.898	ppb
Surrogate Spike 12.000	Recovery =		115.82%	
4) SA Octacosane(S)	9.89	53352761	12.958	ppb
Surrogate Spike 12.000	Recovery =		107.98%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.62	1164348886	270.842	ppb
2) HBTM Motor Oil (C24-C40)	15.82	721464775	238.298	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019204.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/26/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019208.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2372110	1.2	HATML	10
2	HBTM	Motor Oil (C24-C40)	1513790	1468800	3.0	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2873570	14	SA	
4	SA	Octacosane(S)	2058600	2182930	6.0	SA	
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		Average			6.1		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201019\1019208.D Vial: 8
Acq On : 10-26-20 23:45:39 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 27 6:54 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

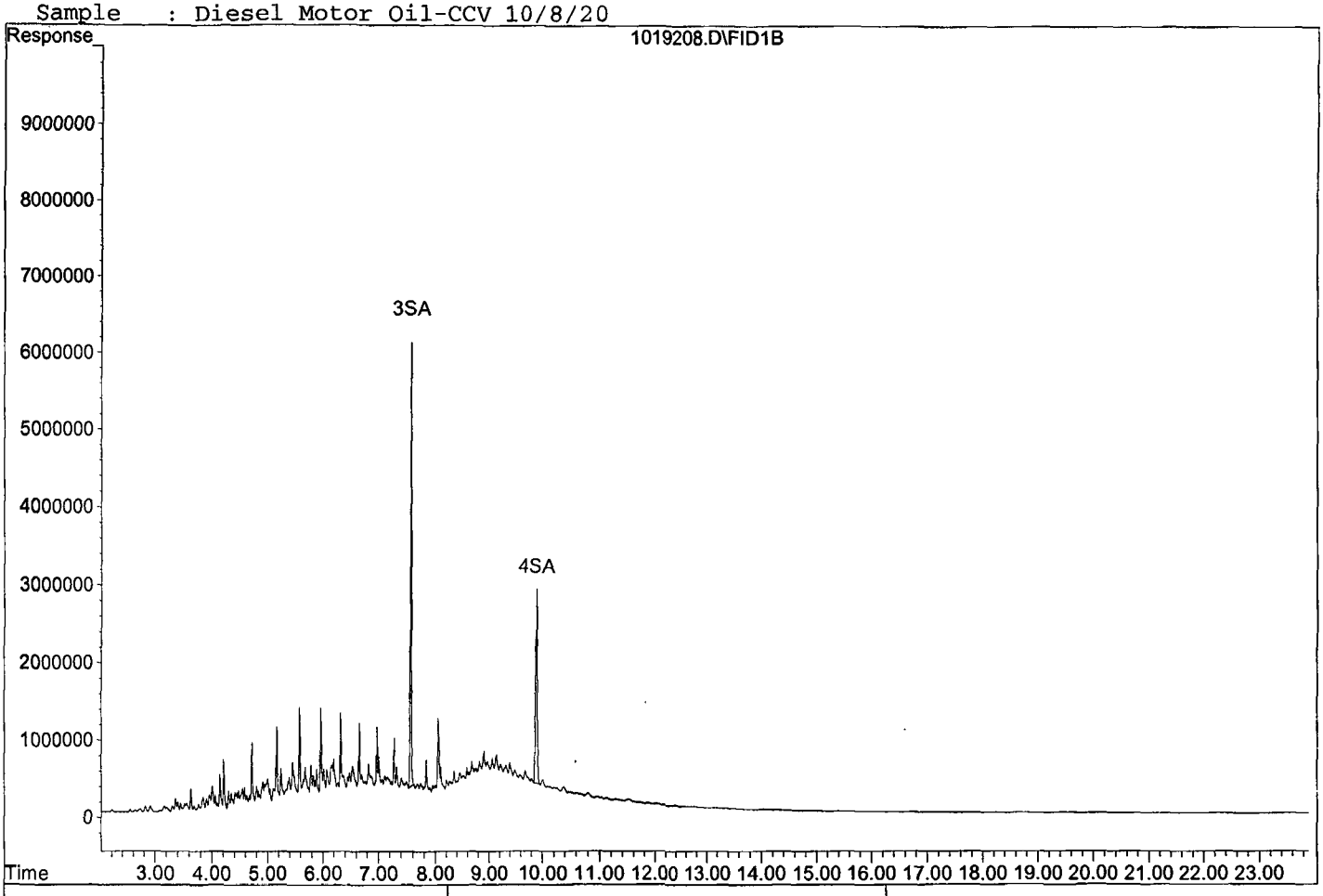
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

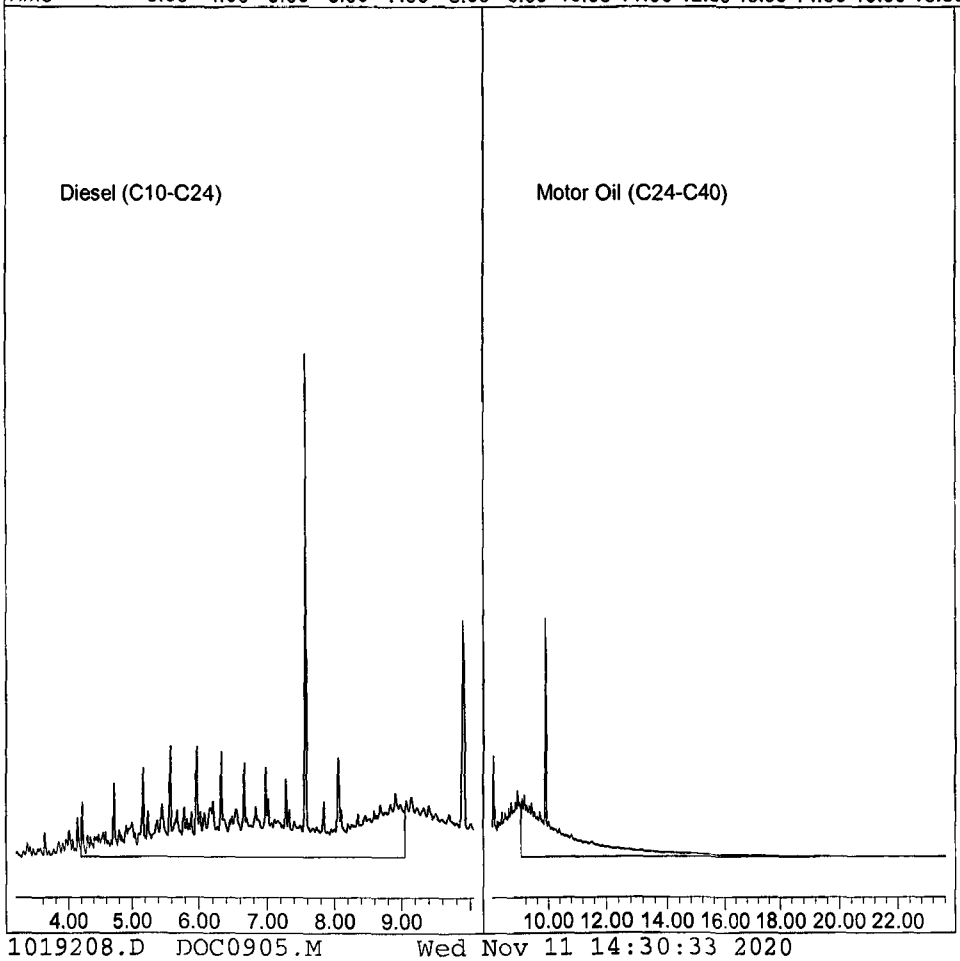
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	71839186	14.224 ppb
Surrogate Spike 12.000	Recovery =		118.53%
4) SA Octacosane(S)	9.90	54573224	13.255 ppb
Surrogate Spike 12.000	Recovery =		110.46%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1186054880	275.875 ppb
2) HBTM Motor Oil (C24-C40)	15.82	734399858	242.570 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019208.D
Sample : Diesel Motor Oil-CCV 10/8/20





1019208.D DOC0905.M Wed Nov 11 14:30:33 2020

ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019207.D Vial: 7
Acq On : 10-26-20 23:17:56 Operator:
Sample : BA20486W14 5/800 Inst : Apollo
Misc : Water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 27 6:53 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

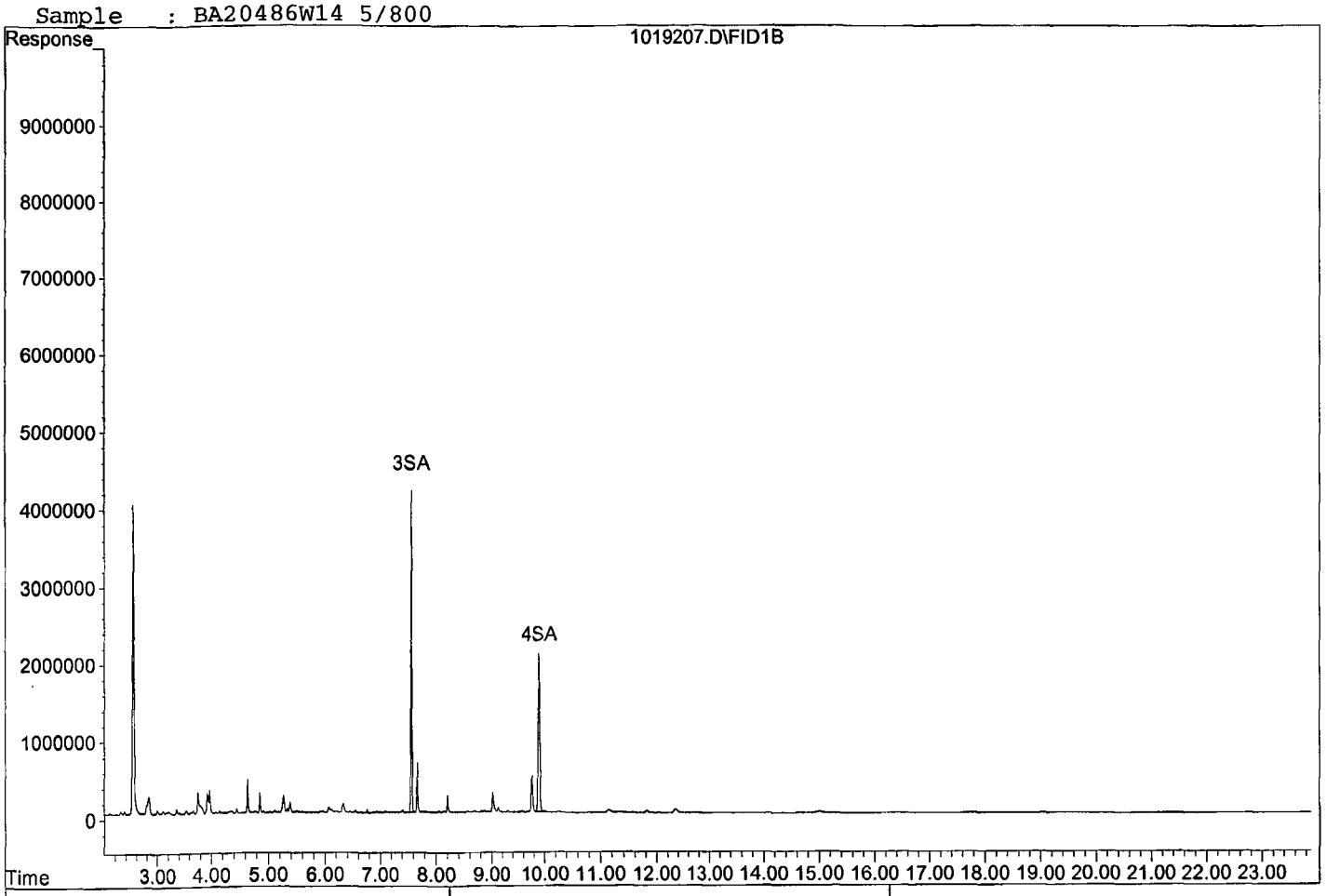
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

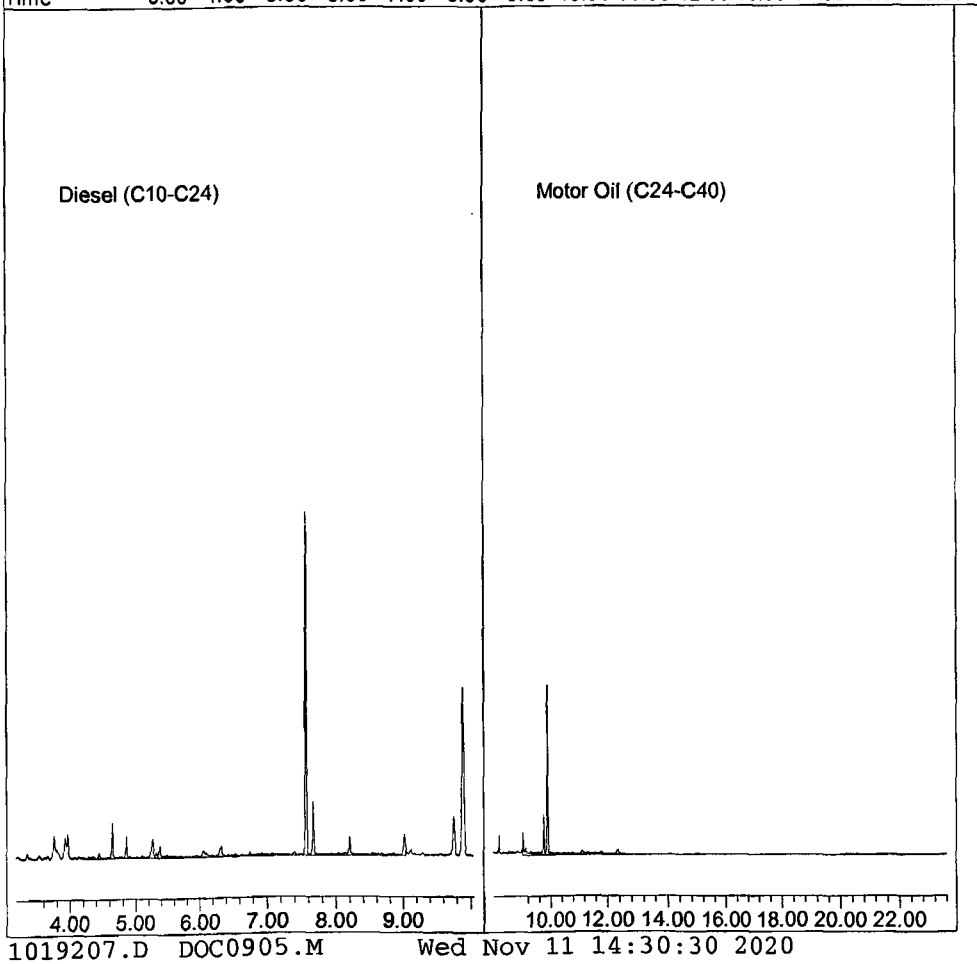
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.56	50237460	62.166 ppb
Surrogate Spike 75.000	Recovery =		82.89%
4) SA Octacosane(S)	9.89	42149438	63.984 ppb
Surrogate Spike 75.000	Recovery =		85.31%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	78643759	119.578 ppb
2) HBTM Motor Oil (C24-C40)	15.82	68426365	141.256 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019207.D
Sample : BA20486W14 5/800





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019191.D Vial: 91
Acq On : 10-26-20 15:51:56 Operator:
Sample : 201022A BLK 5/800 Inst : Apollo
Misc : Water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 27 13:43 2020 Quant Results File: DOC0905.RES

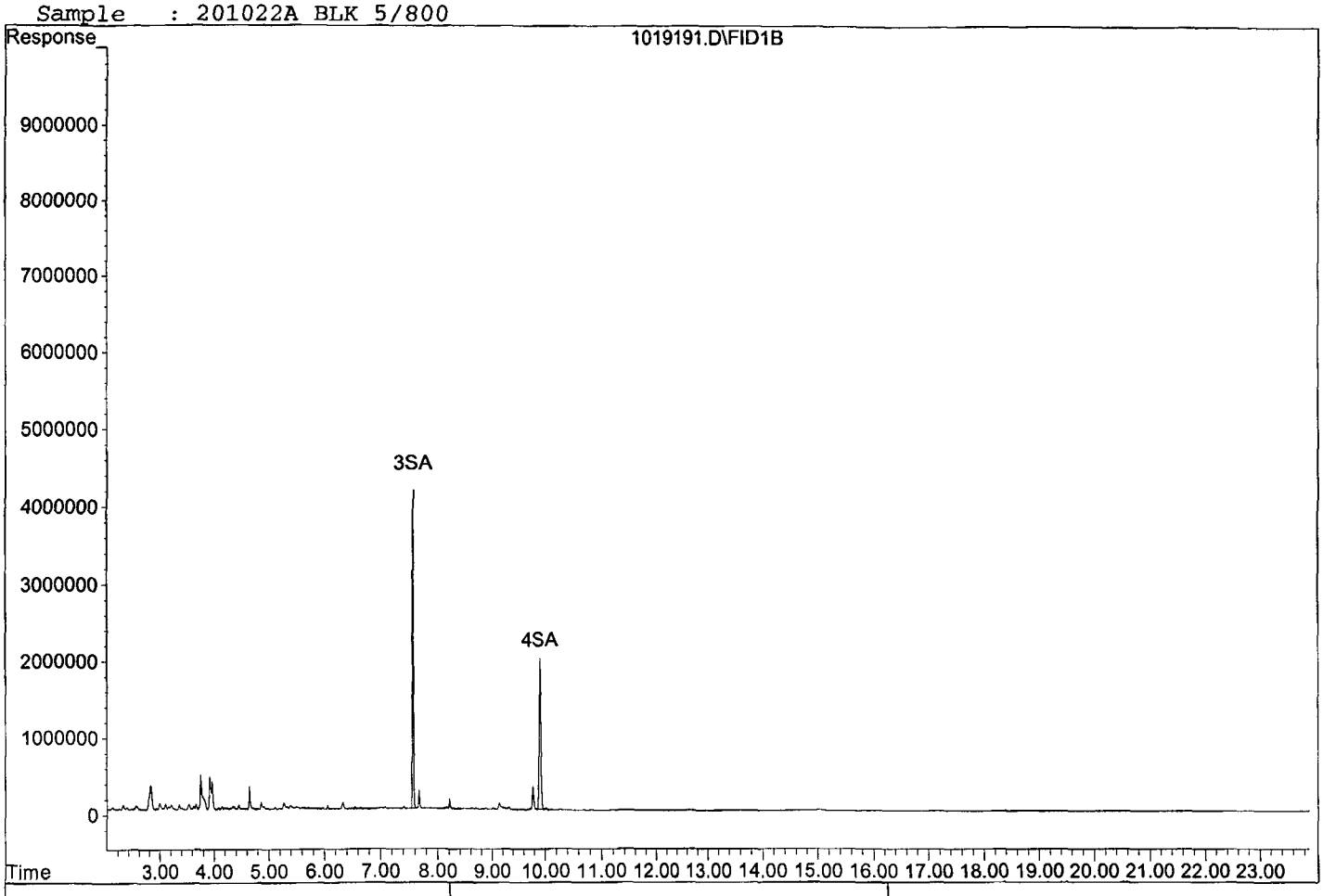
Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

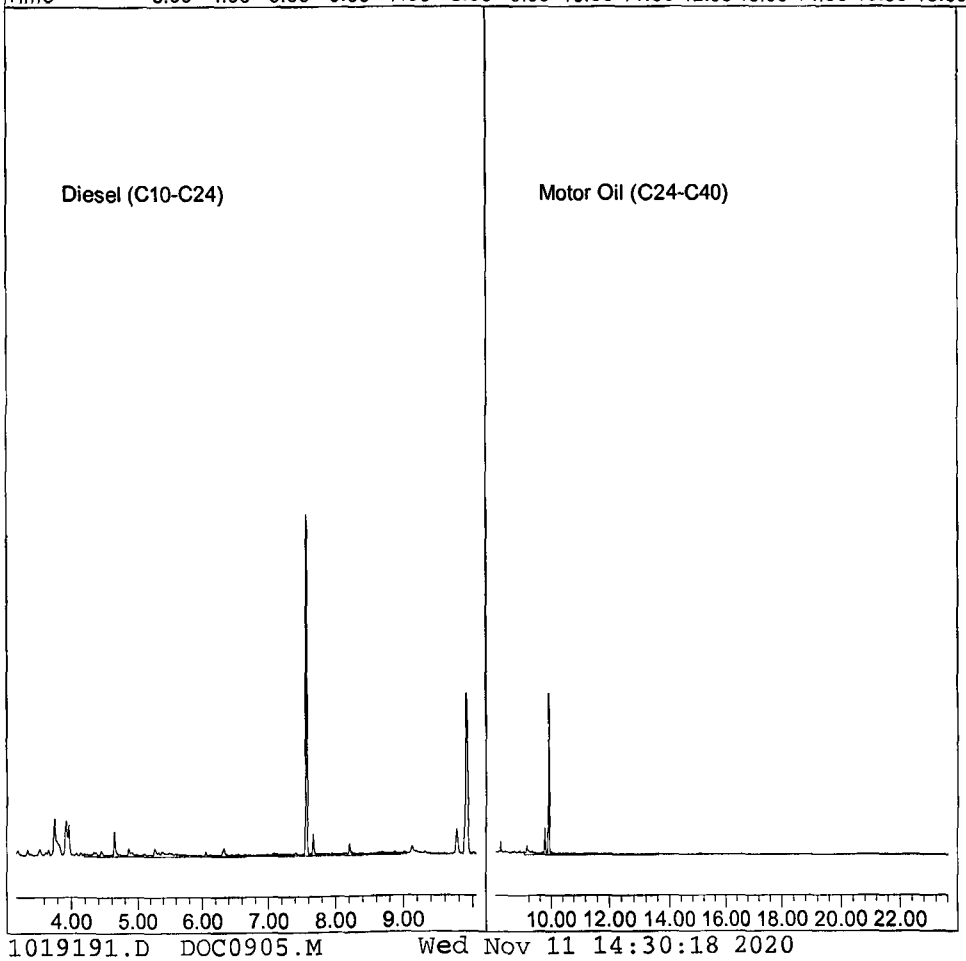
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	51019338	63.134 ppb
Surrogate Spike 75.000	Recovery =		84.18%
4) SA Octacosane(S)	9.91	42047886	63.830 ppb
Surrogate Spike 75.000	Recovery =		85.11%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	74978439	114.267 ppb
2) HBTM Motor Oil (C24-C40)	15.82	48793088	100.726 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019191.D
Sample : 201022A BLK 5/800





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019192.D Vial: 92
Acq On : 10-26-20 16:19:55 Operator:
Sample : 201022A LCS-1 5/800 Inst : Apollo
Misc : Water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 27 6:52 2020 Quant Results File: DOC0905.RES

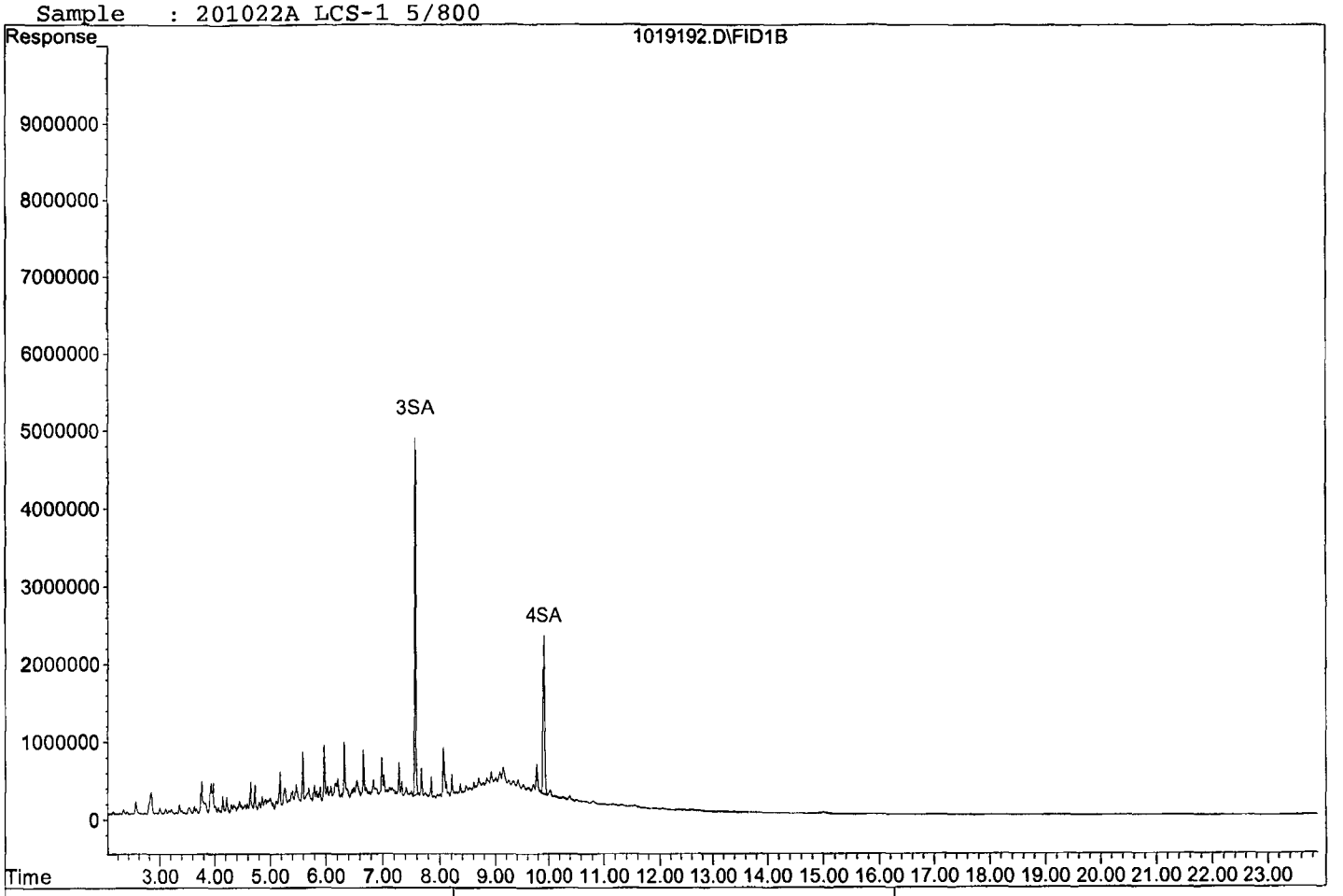
Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

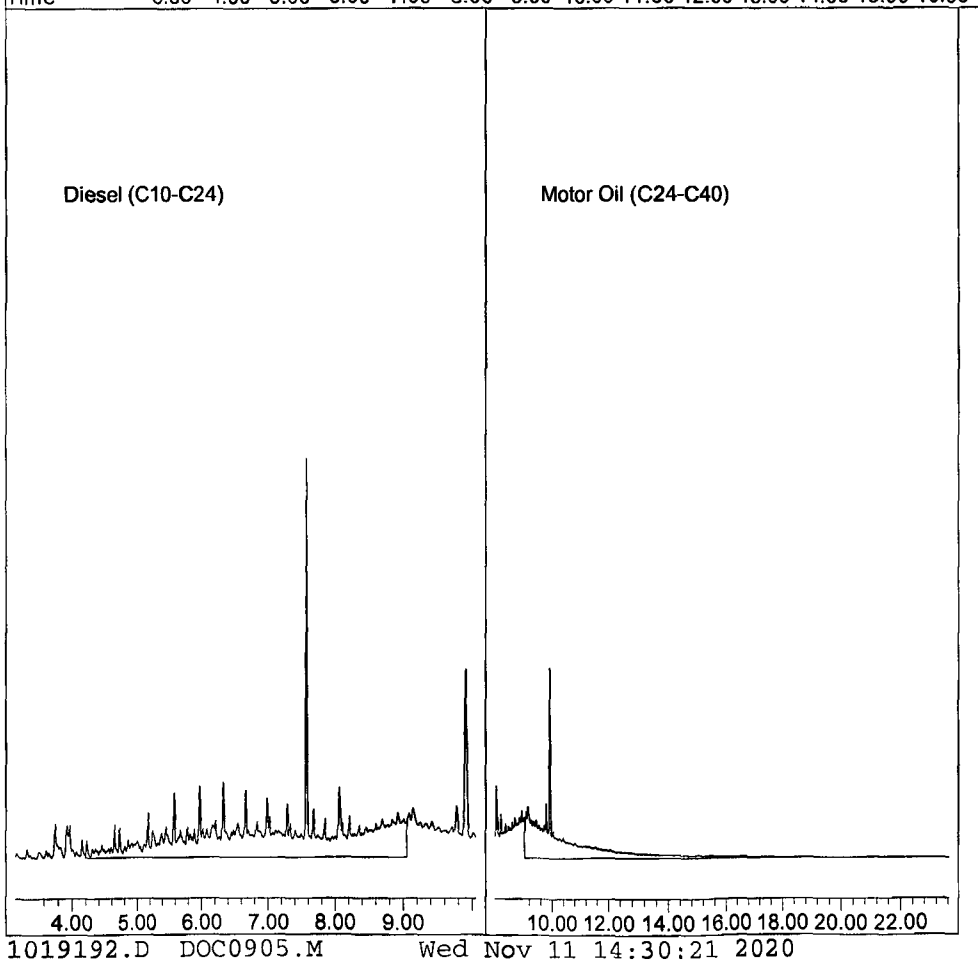
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	57401249	71.031 ppb
Surrogate Spike 75.000	Recovery =		94.71%
4) SA Octacosane(S)	9.91	43913142	66.661 ppb
Surrogate Spike 75.000	Recovery =		88.88%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	782287444	1139.157 ppb
2) HBTM Motor Oil (C24-C40)	15.82	554273461	1144.217 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019192.D
Sample : 201022A LCS-1 5/800





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201019\1019193.D Vial: 93
Acq On : 10-26-20 16:47:57 Operator:
Sample : 201022A LCSD-1 5/800 Inst : Apollo
Misc : Water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 27 13:44 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

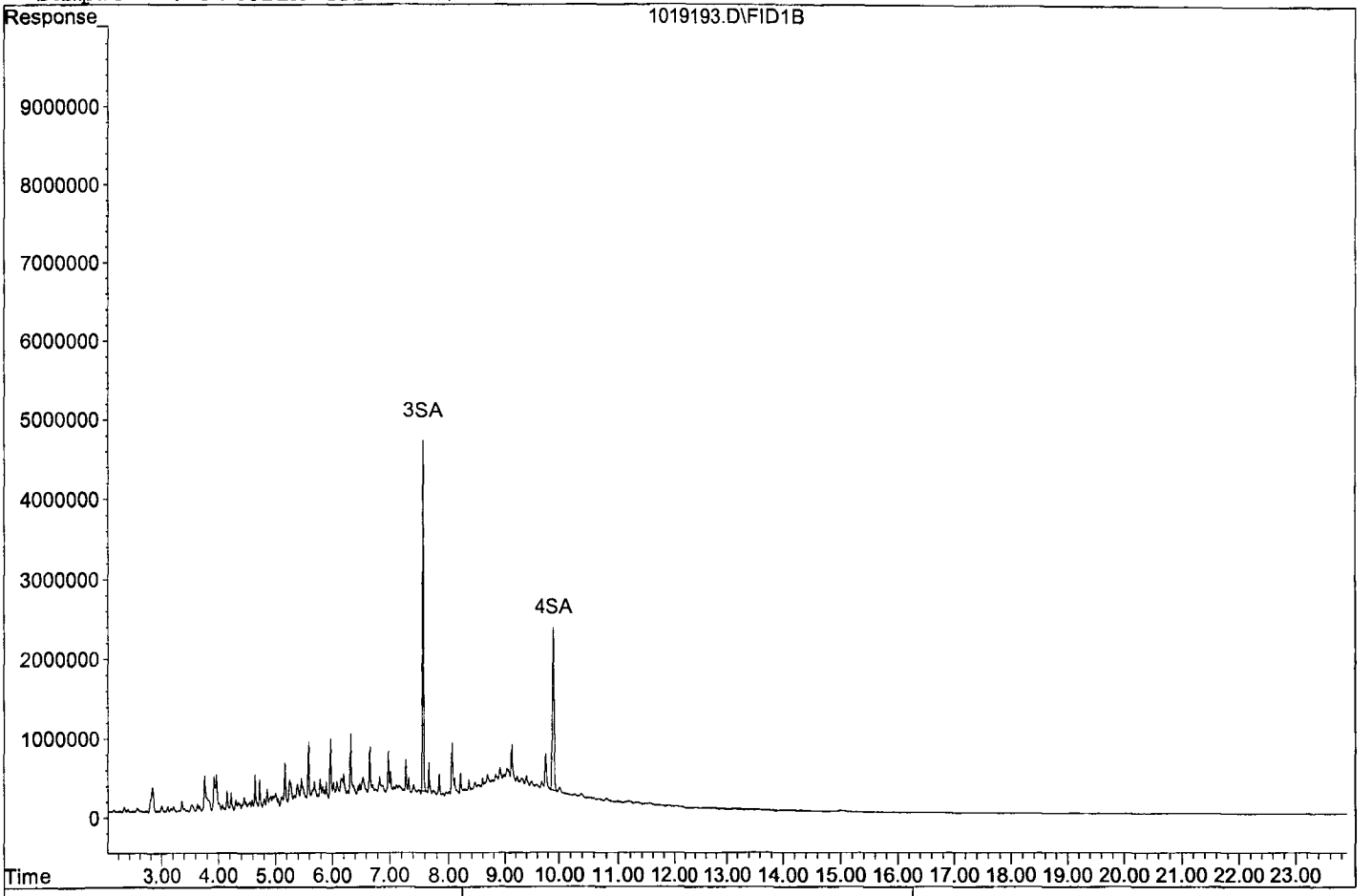
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

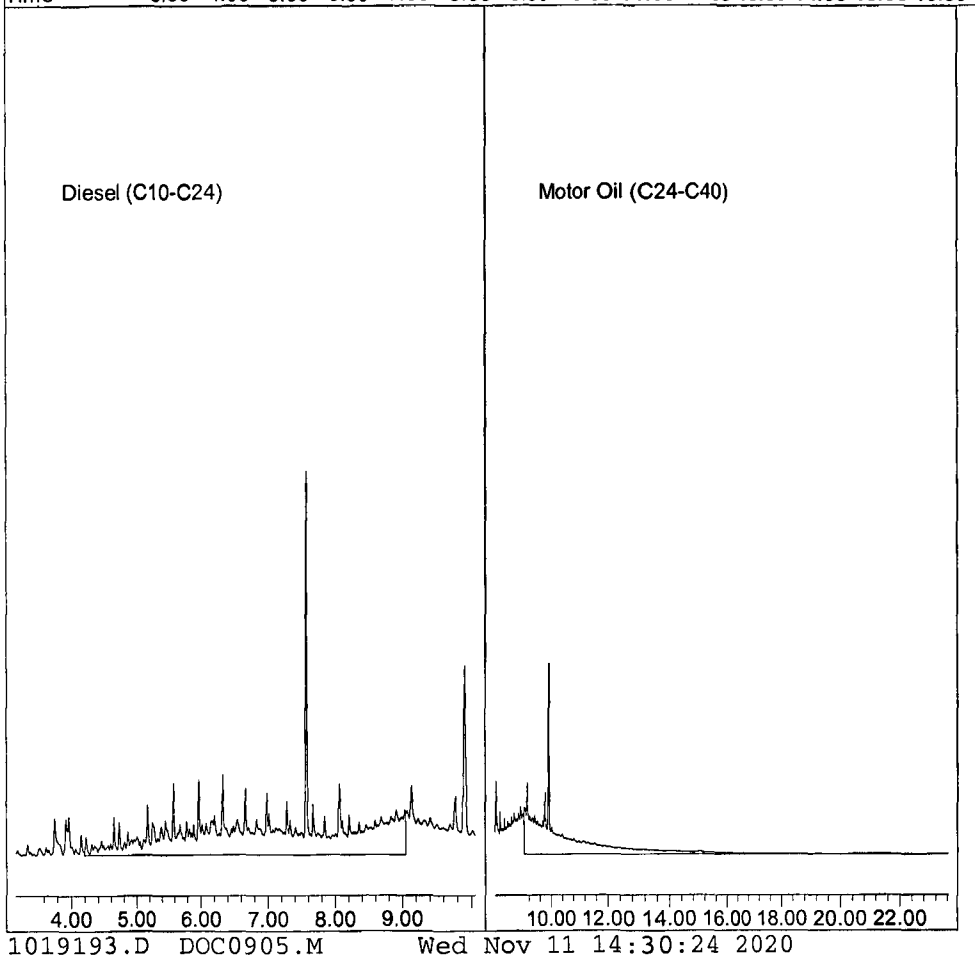
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	55952074	69.238 ppb
Surrogate Spike 75.000	Recovery =		92.32%
4) SA Octacosane(S)	9.90	43152430	65.506 ppb
Surrogate Spike 75.000	Recovery =		87.34%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	822197765	1196.987 ppb
2) HBTM Motor Oil (C24-C40)	15.82	568419535	1173.420 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019193.D
Sample : 201022A LCSD-1 5/800





1019193.D DOC0905.M Wed Nov 11 14:30:24 2020

THC Surrogate

Prepared: 10/15/20 **Prepared By (Initials): SS**

Expires: 10/15/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	CL15440-50426	10/15/21	06/30/25	N/A	N/A	N/A	600

Diesel Motor Oil Mix

Prepared: 09/29/20

Expires: 09/29/21

Prepared By (Initials): SS

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	**A0154201-50382.50523,50524**	**09/29/21**	**11/30/26**	1.35 mL	2.7 mL	NA	25,000
Motor Oil Composite	Restek	31464	50,000	**A0155668-50516,50517,50520**	**09/29/21**	**01/31/27**	1.35 mL			25,000

Diesel / Motor Oil Calibration Curve

Prepared: 09/05/20

Expires: 08/05/21

Prepared By (Initials): SS

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 1	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil -2	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 3	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 4	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 5	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 6	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	100uL	100uL	N/A	2,000

Diesel / Motor Oil Calibration Standard

Prepared: 09/05/20 — **Prepared By (Initials): SS**

Expires: 08/05/21

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	**A0154201-50381,50522,50526**	08/11/21	11/30/26	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	**A0155668-50515,50518,50519**	08/11/21	01/31/27	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	**CL15440-50421**	08/05/21	06/30/25	1666uL			100

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	201022A	Extraction Method	LIQ005	Units	mL

Spiked ID 1	Diesel Motor Oil Mix 9-29-20 9-29-21		Surrogate ID 1	THC Surrogate 10-15-20 10-15-21	
Spiked ID 2	Decanoic 1000ug/mL Acid Solution		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/22/20 13:10	
Spiked ID 8			Ext. End Time:	10/23/20 7:15	
			GC Requires Extract By:		

pH1	2	10/22/20 10:00	Water Bath Temp 1 °C	35/33.5 °C
pH2			Water Bath Temp 2 °C	38/41.1
pH3			Water Bath Temp 3 °C	35/34.5 °C

Spiked By: DL **Date** 10/22/20 **Witnessed By:** YL **Date** 10/22/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201022A Blk				0.1	1 equip	800 E-HP11 e-wb2	5	2	10/22/20 11:00	
2	201022A LCS-1		0.04	1	0.1	1 equip	800 E-HP10 E-WB1	5	2	10/22/20 11:00	
3	201022A LCSD-1		0.04	1	0.1	1 equip	800 E-HP9 E-WB1	5	2	10/22/20 11:00	
4	BA20027	BA20027W10			0.1	1 equip	800 E-HP8 E-WB2	5	2	10/22/20 11:00	93713
5	BA20028	BA20028W10			0.1	1 equip	800 E-HP7 E-WB3	5	2	10/22/20 11:00	93713
6	BA20029	BA20029W09			0.1	1 equip	800 E-HP51 E-WB2	5	2	10/22/20 11:00	93713
7	BA20030	BA20030W10			0.1	1 equip	800 E-HP30 E-WB1	5	2	10/22/20 11:00	93713
8	BA20031	BA20031W10			0.1	1 equip	800 E-HP31 E-WB3	5	2	10/22/20 11:00	93713
9	BA20032	BA20032W10			0.1	1 equip	800 E-HP32 E-WB2	5	2	10/22/20 11:00	93713
10	BA20033	BA20033W09			0.1	1 equip	800 E-HP11 E-WB1	5	2	10/22/20 11:00	93713
11	BA20034	BA20034W10			0.1	1 equip	800 E-HP25 E-WB3	5	2	10/22/20 11:00	93713
12	BA20035	BA20035W09			0.1	1 equip	800 E-HP26 E-WB2	5	2	10/22/20 11:00	93713
13	BA20036	BA20036W09			0.1	1 equip	800 E-HP27 E-WB3	5	2	10/22/20 11:00	93713
14	BA20037	BA20037W09			0.1	1 equip	800 E-HP10 E-WB1	5	2	10/22/20 11:00	93713
15	BA20038	BA20038W09			0.1	1 equip	800 E-HP8 E-WB2	5	2	10/22/20 11:00	93713
16	BA20407 MS-1	BA20407W27	0.040	1	0.1	1 equip	800 E-HP7 E-WB1	5	2	10/22/20 11:00	93774

Solvent and Lot#	
1+1 HCL Amber Liter	9-28-20
PH Strips	hc904495
Dicholormethane	60127
Filter Paper	400178
B. Sodium Sulfate	2019070279
Silica Gel (*)	050627t

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	SS
Date	10/20/20
Time	1300
Refrigerator	HOBART

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	MP

Modified	11/09/20 1:05:22 PM

Reviewed By: KY **Date** 11/09/20

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	201022A	Extraction Method	LIQ005	Units	mL

Spiked ID 1	Diesel Motor Oil Mix 9-29-20 9-29-21		Surrogate ID 1	THC Surrogate 10-15-20 10-15-21	
Spiked ID 2	Decanoic 1000ug/mL Acid Solution		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/22/20 13:10	
Spiked ID 8			Ext. End Time:	10/23/20 7:15	
			GC Requires Extract By:		

pH1	2	10/22/20 10:00	Water Bath Temp 1 °C	35/33.5 °C
pH2			Water Bath Temp 2 °C	38/41.1
pH3			Water Bath Temp 3 °C	35/34.5 °C

Spiked By: DL **Date** 10/22/20 **Witnessed By:** YL **Date** 10/22/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	BA20407 MSD-1	BA20407W29	0.040	1	0.1	1	800	5	2	10/22/20 11:00	93774
						equip	E-HP6 E-WB2				
18	BA20407	BA20407W25			0.1	1	800	5	2	10/22/20 11:00	93774
						equip	E-HP9 E-WB3				
19	BA20408	BA20408W09			0.1	1	800	5	2	10/22/20 11:00	93774
						equip	E-HP51 E-WB1				
20	BA20409	BA20409W09			0.1	1	800	5	2	10/22/20 11:00	93774
						equip	E-HP50 e-wb2				
21	BA20410	BA20410W09			0.1	1	800	5	2	10/22/20 11:00	93774
						equip	E-HP49 E-WB3				
22	BA20411	BA20411W09			0.1	1	800	5	2	10/22/20 11:00	93774
						equip	E-HP48 E-WB1				
23	BA20412	BA20412W09			0.1	1	800	5	2	10/22/20 11:00	93774
						equip	E-HP25 E-WB2				
24	BA20486	BA20486W14			0.1	1	800	5	2	10/22/20 11:00	93803
						equip	E-HP6 E-WB3				

Solvent and Lot#	
1+1 HCL Amber Liter	9-28-20
PH Strips	hc904495
Dicholormethane	60127
Filter Paper	400178
B. Sodium Sulfate	2019070279
Silica Gel (*)	050627t

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	SS
Date	
Time	
Refrigerator	HOBART

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	MP

Modified	11/09/20 1:05:22 PM

Reviewed By: KY **Date** 11/09/20

Injection Log

Directory: G:\APOLLO\DATA\200905\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	7	905007.D	1	Diesel Motor Oil-1 9/5/20	Water	9-5-20 17:04:35
2	8	905008.D	1	Diesel Motor Oil-2 9/5/20	Water	9-5-20 17:32:40
3	9	905009.D	1	Diesel Motor Oil-3 9/5/20	Water	9-5-20 18:00:45
4	10	905010.D	1	Diesel Motor Oil-4 9/5/20	Water	9-5-20 18:28:54
5	11	905011.D	1	Diesel Motor Oil-5 9/5/20	Water	9-5-20 18:56:54
6	12	905012.D	1	Diesel Motor Oil-6 9/5/20	Water	9-5-20 19:24:55
7	13	905013.D	1	Diesel Motor Oil-SS 7/21/20	Water	9-5-20 19:52:52
8	89	1019189.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-26-20 14:37:32
9	91	1019191.D	6.25	201022A BLK 5/800	Water	10-26-20 15:51:56
10	92	1019192.D	6.25	201022A LCS-1 5/800	Water	10-26-20 16:19:55
11	93	1019193.D	6.25	201022A LCSD-1 5/800	Water	10-26-20 16:47:57
12	4	1019204.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-26-20 21:54:43
13	7	1019207.D	6.25	BA20486W14 5/800	Water	10-26-20 23:17:56
14	8	1019208.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-26-20 23:45:39

ORGANICS

Calibration Data

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/09/20
Matrix: Instrument: Yoda
Initials:

1009Y003.D 1009Y004.D 1009Y005.D 1009Y006.D 1009Y007.D 1009Y008.D 1009Y009.D 1009Y010.D 1009Y011.D

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type	r^2	Q	MRF
1	I	1,4-dichlorobenzene-D4(IS)	ISTD															
2		1,4-Dioxane		0.4293	0.2691	0.3927	0.3603	0.3512	0.3539	0.4027	0.3108		0.36	14				
3	TM	n-Nitrosodimethylamine		0.4601	0.4992	0.6181	0.5207	0.5543	0.5902	0.6145	0.5794		0.55	10	TM			
4	TM	Pyridine		1.424	1.491	1.667	1.446	1.524	1.596	1.687	1.573		1.6	6.3	TM			
5	S	2-Fluorophenol (S)		1.455	1.483	1.631	1.495	1.498	1.551	1.635	1.654		1.6	5.1	S			
6	S	Phenol-D6 (S)		1.797	1.868	2.054	1.867	1.902	1.969	2.087	2.093		2.0	5.8	S			
7	*TM	Phenol		1.996	2.089	2.364	2.187	2.245	2.303	2.368	2.356		2.2	6.2	*TM			0.800
8	TM	Aniline			2.127	2.017	1.586	1.710	1.599	1.490			1.8	15	TM			
9	TM	Bis (2-chloroethyl) ether		0.8751	0.8838	0.9222	0.8720	0.8863	0.9151	0.9548	0.9270		0.90	3.3	TM			0.700
10	TM	2-Chlorophenol		1.797	1.850	1.900	1.784	1.819	1.894	1.944	1.920		1.9	3.2	TM			0.800
11	TM	1,3-DCB		1.959	2.030	2.076	1.862	1.999	1.964	2.061	1.983		2.0	3.4	TM			
12	*TM	1,4-DCB		2.009	2.071	2.127	1.902	2.014	2.011	2.092	2.038		2.0	3.3	*TM			
13	TM	Benzyl alcohol		0.9932	1.034	1.074	0.9800	1.024	1.055	1.089	1.088		1.0	4.0	TM			
14	TM	1,2-DCB		1.897	1.944	1.988	1.783	1.882	1.917	1.950	1.922		1.9	3.2	TM			
15	TM	2-Methylphenol		1.326	1.372	1.416	1.291	1.363	1.390	1.443	1.433		1.4	3.8	TM			0.700
16	TM	Bis (2-chloroisopropyl) ether		1.199	1.203	1.247	1.119	1.150	1.170	1.210	1.190		1.2	3.3	TM			0.010
17	TM	Acetophenone		2.283	2.370	2.477	2.256	2.375	2.440	2.512	2.533		2.4	4.3	TM			0.010
18	TM	3&4-Methylphenol		1.796	1.847	1.938	1.787	1.935	1.958	2.035	2.027		1.9	5.0	TM			0.600
19	**TM	n-Nitrosodi-n-propylamine		1.157	1.201	1.268	1.164	1.194	1.229	1.262	1.219		1.2	3.4	**TM			0.500
20	TM	Hexachloroethane		0.6621	0.7138	0.7479	0.6836	0.7204	0.7221	0.7537	0.7274		0.72	4.3	TM			0.300
21	I	Napthalene-D8(IS)	ISTD															
22	S	Nitrobenzene-D5(S)		0.3767	0.4074	0.4318	0.4120	0.4200	0.4234	0.4403	0.4357		0.42	4.8	S			
23	TM	Nitrobenzene		0.4108	0.4279	0.4399	0.4112	0.4365	0.4323	0.4523	0.4361		0.43	3.3	TM			0.200
24	TM	Isophorone		0.6918	0.7326	0.7384	0.7019	0.7582	0.7470	0.7728	0.7603		0.74	3.9	TM			0.400
25	*TM	2-Nitrophenol		0.2358	0.2392	0.2587	0.2505	0.2695	0.2709	0.2804	0.2707		0.26	6.3	*TM			0.100
26	TM	2,4-Dimethylphenol		0.3810	0.3932	0.4195	0.3865	0.4122	0.4134	0.4182	0.4186		0.41	3.9	TM			0.200
27	TML	Benzoic acid			0.1193	0.1498	0.2422	0.2790	0.2926	0.2859			0.23	33	TM	0.993		
28	TM	Bis (2-chloroethoxy) methane		0.4454	0.4740	0.4680	0.4452	0.4729	0.4766	0.4874	0.4781		0.47	3.3	TM			0.300
29	*TM	2,4-Dichlorophenol		0.3839	0.3979	0.4018	0.3824	0.4047	0.4130	0.4248	0.4176		0.40	3.8	*TM			0.200
30	TM	1,2,4-Trichlorobenzene		0.4381	0.4478	0.4551	0.4234	0.4545	0.4539	0.4605	0.4619		0.45	2.9	TM			
31	TM	3,4-Dimethylphenol		0.5549	0.5582	0.5619	0.5484	0.5620	0.5782	0.5937	0.5729		0.57	2.6	TM			
32	TM	Naphthalene		1.272	1.316	1.315	1.246	1.324	1.312	1.367	1.341		1.3	2.9	TM			0.700
33	TM	4-Chloroaniline		0.5356	0.5604	0.5691	0.5429	0.5561	0.5720	0.5577	0.5208		0.55	3.2	TM			0.010
34	TM	2,6-Dichlorophenol		0.3741	0.3930	0.3912	0.3802	0.3944	0.4109	0.4193	0.4162		0.40	4.2	TM			
35	TM	Hexachloropropene		0.2941	0.3053	0.3231	0.3090	0.3436	0.3393	0.3505	0.3515		0.33	6.8	TM			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/09/20
Matrix: Instrument: Yoda Initials:

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q	
36	*TM	Hexachlorobutadiene		0.2686	0.2726	0.2757	0.2652	0.2782	0.2804	0.2850	0.2824		0.28	2.5	*TM			0.010
37	TM	Caprolactum		0.1172	0.1242	0.1338	0.1295	0.1320	0.1375	0.1387	0.1377		0.13	5.7	TM			0.010
38	*TM	4-Chloro-3-methylphenol		0.3876	0.4049	0.4120	0.3888	0.4162	0.4246	0.4340	0.4291		0.41	4.2	*TM			0.200
39	TM	2-Methylnaphthalene		0.8441	0.8754	0.8763	0.8333	0.8987	0.8935	0.9456	0.9148		0.89	4.1	TM			0.400
40	TM	1-Methylnaphthalene		0.8711	0.9149	0.9056	0.8746	0.9322	0.9362	0.9541	0.9452		0.92	3.4	TM			
41	I	Acenaphthene-D10(IS)	ISTD															
42	**TM	Hexachlorocyclopentadiene		0.4926	0.5473	0.5729	0.5151	0.5557	0.6434	0.4714	0.6605		0.56	12	**TM			0.050
43	TM	1,2,4,5-Tetrachlorobenzene		0.7596	0.7959	0.7832	0.7668	0.8143	0.8333	0.8326	0.8706		0.81	4.7	TM			0.010
44	*TM	2,4,6-Trichlorophenol		0.4985	0.5116	0.5220	0.5159	0.5513	0.5494	0.5668	0.5702		0.54	5.1	*TM			0.200
45	TM	2,4,5-Trichlorophenol		0.5301	0.5339	0.5572	0.5423	0.5568	0.5860	0.5824	0.6014		0.56	4.7	TM			0.200
46	S	2-Fluorobiphenyl(S)		1.653	1.647	1.683	1.637	1.666	1.701	1.734	1.765		1.7	2.7	S			
47	TM	1,1'-Biphenyl		1.884	1.868	1.885	1.850	1.903	1.984	1.962	2.056		1.9	3.7	TM			0.010
48	TM	2-Chloronaphthalene		1.488	1.505	1.490	1.465	1.531	1.552	1.546	1.597		1.5	2.8	TM			0.800
49	TM	2-Nitroaniline		0.3404	0.3547	0.3797	0.3680	0.3869	0.3939	0.4013	0.4122		0.38	6.4	TM			0.010
50	TM	Dimethyl phthalate		1.778	1.792	1.808	1.739	1.813	1.845	1.896	1.896		1.8	3.0	TM			0.010
51	TM	2,6-DNT		0.3595	0.3691	0.3940	0.3898	0.4194	0.4362	0.4303	0.4376		0.40	7.6	TM			0.200
52	TM	Acenaphthylene		2.272	2.270	2.301	2.239	2.369	2.346	2.427	2.452		2.3	3.3	TM			0.900
53	TM	3-Nitroaniline		0.4354	0.4701	0.4891	0.4850	0.5162	0.5277	0.5306	0.5569		0.50	7.8	TM			0.010
54	*TM	Acenaphthene		1.513	1.515	1.526	1.475	1.601	1.634	1.562	1.583		1.6	3.4	*TM			0.900
55	**TML	2,4-Dinitrophenol				0.1026	0.1597	0.1980	0.2280	0.2394	0.2642		0.20	30	**TM	0.993		0.010
56	**TM	4-Nitrophenol			0.2263	0.2559	0.2676	0.2931	0.3073	0.3053	0.3217		0.28	12	**TM			0.010
57	TM	Dibenzofuran		2.146	2.151	2.189	2.113	2.192	2.258	2.260	2.368		2.2	3.7	TM			0.800
58	TM	2,4-DNT		0.4874	0.5258	0.5675	0.5631	0.5872	0.6207	0.6214	0.6309		0.58	8.8	TM			0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.4226	0.4326	0.4568	0.4521	0.4802	0.4931	0.5021	0.5103		0.47	6.9	TM			0.010
60	TM	Diethyl phthalate		1.717	1.750	1.774	1.700	1.785	1.821	1.822	1.856		1.8	3.0	TM			0.010
61	TM	4-Chlorophenyl phenyl ether		0.9642	0.9787	1.003	0.9777	1.022	1.052	1.077	1.128		1.0	5.6	TM			0.400
62	TM	Fluorene		1.723	1.752	1.766	1.748	1.849	1.876	1.915	1.993		1.8	5.3	TM			0.900
63	TM	4-Nitroaniline		0.3881	0.4161	0.4217	0.4161	0.4232	0.4331	0.4350	0.4238		0.42	3.5	TM			0.010
64	S	2,4,6-Tribromophenol(S)		0.2499	0.2577	0.2753	0.2746	0.2881	0.2924	0.3250	0.3519		0.29	12	S			
65	I	Phenanthrene-D10(IS)	ISTD															
66	TM	4,6-Dinitro-2-methylphenol				0.1512	0.1746	0.1987	0.2095	0.2163	0.2173		0.19	14	TM			0.010
67	TM	Diphenyl amine		0.7260	0.7313	0.7409	0.7221	0.7714	0.7734	0.7988	0.7939		0.76	4.1	TM			
68	*TM	n-Nitrosodiphenylamine		0.7260	0.7313	0.7409	0.7221	0.7714	0.7734	0.7988	0.7939		0.76	4.1	*TM			0.010
69	TM	1,2-Diphenylhydrazine		0.7088	0.7296	0.7363	0.7005	0.7390	0.7439	0.7625	0.7442		0.73	2.7	TM			
70	TM	4-Bromophenyl phenyl ether		0.2867	0.2841	0.2901	0.2822	0.3029	0.3102	0.3219	0.3181		0.30	5.3	TM			0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/09/20
Matrix: Instrument: Yoda Initials:

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q	
71	TM	Hexachlorobenzene		0.3059	0.3129	0.3147	0.2992	0.3297	0.3289	0.3449	0.3390		0.32	5.0	TM			0.100
72	TM	Atrazine		0.2523	0.2730	0.2788	0.2709	0.2853	0.2901	0.2889	0.2868		0.28	4.6	TM			0.010
73	*TM	Pentachlorophenol			0.1760	0.2025	0.2048	0.2235	0.2348	0.2427	0.2490		0.22	12	*TM			0.050
74	TM	Phenanthrene		1.345	1.323	1.369	1.279	1.372	1.374	1.412	1.391		1.4	3.1	TM			0.700
75	TM	Anthracene		1.365	1.358	1.392	1.361	1.421	1.466	1.469	1.460		1.4	3.5	TM			0.700
76	TM	Carbazol		1.228	1.242	1.281	1.206	1.271	1.283	1.350	1.297		1.3	3.5	TM			0.010
77	TM	Di-n-butylphthalate		1.399	1.446	1.519	1.477	1.547	1.637	1.617	1.650		1.5	6.1	TM			0.010
78	*TM	Fluoranthene		1.492	1.509	1.526	1.496	1.593	1.632	1.639	1.676		1.6	4.7	*TM			0.600
79	I	Chrysene-D12(IS)	ISTD															
80	TM	Benzidine		0.3875	0.4488	0.4755	0.4544	0.4661	0.4881	0.4328	0.4334		0.45	7.0	TM			
81	TM	Pyrene		1.580	1.594	1.611	1.508	1.589	1.612	1.662	1.608		1.6	2.7	TM			0.600
82	S	Terphenyl-D14(S)		1.093	1.106	1.133	1.100	1.146	1.167	1.246	1.233		1.2	5.1	S			
83	TM	Butyl benzylphthalate		0.5836	0.6098	0.6584	0.6252	0.6819	0.6870	0.7124	0.7012		0.66	7.1	TM			0.010
84	TM	3,3'-Dichlorobenzidine		0.4764	0.5012	0.5358	0.5200	0.5374	0.5593	0.5590	0.5373		0.53	5.4	TM			0.010
85	TM	Benz (a) anthracene		1.520	1.560	1.589	1.516	1.620	1.658	1.688	1.703		1.6	4.5	TM			0.800
86	TM	Bis (2-ethylhexyl) phthalate		0.8281	0.8665	0.9124	0.8825	0.9508	0.9571	0.9995	0.9787		0.92	6.5	TM			0.010
87	TM	Chrysene		1.533	1.530	1.547	1.443	1.537	1.539	1.633	1.608		1.5	3.7	TM			0.700
88	*TM	Di-n-octylphthalate		1.194	1.328	1.474	1.479	1.579	1.648	1.693	1.683		1.5	12	*TM			0.010
89	I	Perylene-D12(IS)	ISTD															
90	TM	Benzo (b) fluoranthene		1.322	1.387	1.529	1.433	1.628	1.753	1.644	1.720		1.6	10	TM			0.700
91	TM	Benzo (k) fluoranthene		1.522	1.563	1.485	1.475	1.477	1.420	1.570	1.516		1.5	3.3	TM			0.700
92	*TM	Benzo (a) pyrene	1.198	1.279	1.346	1.442	1.386	1.499	1.524	1.536	1.563		1.4	8.9	*TM			0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.425	1.508	1.567	1.530	1.657	1.696	1.717	1.718		1.6	6.9	TM			0.500
94	TM	Dibenz (a,h) anthracene	1.199	1.284	1.331	1.382	1.359	1.465	1.487	1.513	1.542		1.4	8.2	TM			0.400
95	TM	Benzo (g,h,i) perylene		1.295	1.328	1.376	1.316	1.428	1.458	1.469	1.465		1.4	5.2	TM			0.500
96																		
97																		
98																		
99																		
100																		
101																		
102																		
103																		
104																		
105																		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y003.D Vial: 3
Acq On : 9 Oct 20 11:14 Operator: MA
Sample : 4ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:28:56 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	227533	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	901223	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	551168	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1043970	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1064432	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	1050083	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
6) Phenol-D6 (S)	0.00	99	0d	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
22) Nitrobenzene-D5(S)	0.00	82	0d	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
46) 2-Fluorobiphenyl(S)	0.00	172	0d	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
64) 2,4,6-Tribromophenol(S)	0.00	330	0d	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
82) Terphenyl-D14(S)	0.00	244	0d	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
Target Compounds					Qvalue
92) Benzo (a) pyrene	14.99	252	125828	3.28617 ppb	97
94) Dibenz (a,h) anthracene	16.77	278	125879	3.24970 ppb	96

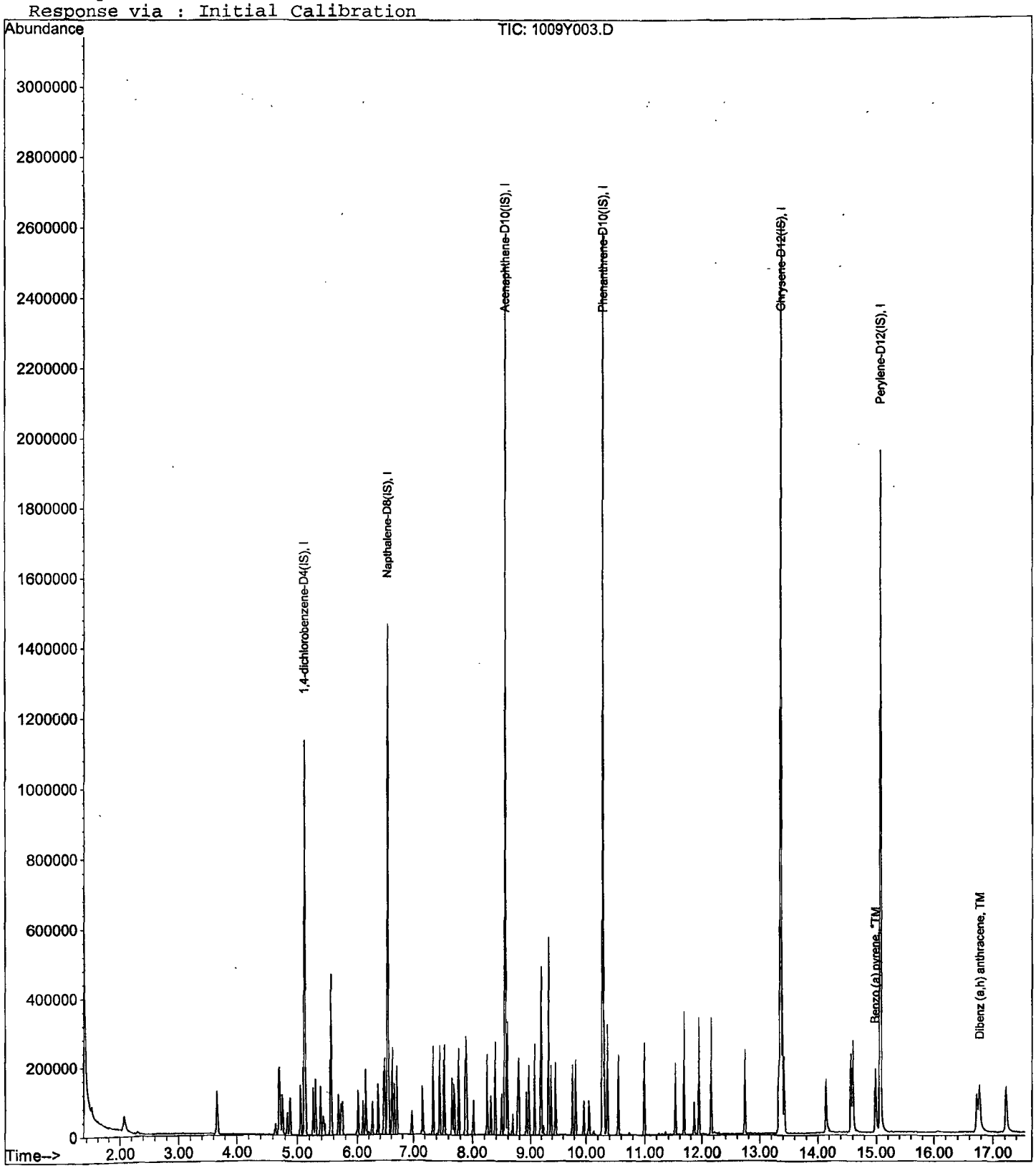
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y003.D Vial: 3
Acq On : 9 Oct 20 11:14 Operator: MA
Sample : 4ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:32 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y004.D Vial: 4
Acq On : 9 Oct 20 11:40 Operator: MA
Sample : 5ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	295573	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	1198634	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	717733	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1396730	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1400451	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	1378494	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.65	112	107548	9.79493 ppb	0.00
Spiked Amount 200.000			Recovery	= 4.898%	
6) Phenol-D6 (S)	4.69	99	132793	9.54853 ppb	-0.02
Spiked Amount 200.000			Recovery	= 4.775%	
22) Nitrobenzene-D5(S)	5.72	82	56448	4.47844 ppb	0.00
Spiked Amount 100.000			Recovery	= 4.478%	
46) 2-Fluorobiphenyl(S)	7.77	172	148324	4.95989 ppb	0.00
Spiked Amount 100.000			Recovery	= 4.960%	
64) 2,4,6-Tribromophenol(S)	9.46	330	44842	8.88855 ppb	-0.02
Spiked Amount 200.000			Recovery	= 4.445%	
82) Terphenyl-D14(S)	12.15	244	191253	4.79704 ppb	0.00
Spiked Amount 100.000			Recovery	= 4.797%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	1586	0.58537	88
3) n-Nitrosodimethylamine	2.04	42	17000	4.74480 ppb	88
4) Pyridine	2.06	79	52628	4.74569 ppb	100
7) Phenol	4.71	94	73745	4.41786 ppb	96
8) Aniline	4.75	93	74912	6.48908 ppb	100
9) Bis (2-chloroethyl) ether	4.82	63	32333	4.91887 ppb	93
10) 2-Chlorophenol	4.88	128	66407	4.92247 ppb	98
11) 1,3-DCB	5.05	146	72396	4.92865 ppb	96
12) 1,4-DCB	5.13	146	74215	4.97605 ppb	96
13) Benzyl alcohol	5.26	108	36696	4.98304 ppb	99
14) 1,2-DCB	5.30	146	70078	5.02008 ppb	97
15) 2-Methylphenol	5.38	107	48979	4.71409 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	44300	5.18894 ppb	96
17) Acetophenone	5.56	105	84332	5.12230 ppb	72
18) 3&4-Methylphenol	5.55	107	132686	10.04745 ppb	97
19) n-Nitrosodi-n-propylamine	5.56	70	42735	4.95123 ppb	96
20) Hexachloroethane	5.67	117	24461	4.63665 ppb	85
23) Nitrobenzene	5.74	77	61553	4.77890 ppb	97
24) Isophorone	6.00	82	103656	4.63891 ppb	94
25) 2-Nitrophenol	6.10	139	35327	4.48123 ppb	90
26) 2,4-Dimethylphenol	6.14	122	57085	4.80390 ppb	99
27) Benzoic acid	6.21	105	13240	6.32470 ppb	93
28) Bis (2-chloroethoxy) metha	6.26	93	66732	4.75525 ppb	97
29) 2,4-Dichlorophenol	6.36	162	57519	4.80776 ppb	98
30) 1,2,4-Trichlorobenzene	6.47	180	65647	4.84104 ppb	96
31) 3,4-Dimethylphenol	6.48	107	83137	4.94914 ppb	97
32) Naphthalene	6.55	128	190633	4.82985 ppb	99
33) 4-Chloroaniline	6.61	127	80253	5.17102 ppb	99
34) 2,6-Dichlorophenol	6.62	162	56054	4.70900 ppb	99
35) Hexachloropropene	6.65	213	44063	4.33691 ppb	94
36) Hexachlorobutadiene	6.70	225	40246	4.85135 ppb	97
37) Caprolactum	6.97	55	17565	4.41965 ppb	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y004.D Vial: 4
Acq On : 9 Oct 20 11:40 Operator: MA
Sample : 5ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.15	107	58070	4.81778	ppb		86
39)	2-Methylnaphthalene	7.34	142	126478	4.76950	ppb		99
40)	1-Methylnaphthalene	7.45	142	130512	4.78713	ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	44192	6.59964	ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.53	216	68146	4.75873	ppb		98
44)	2,4,6-Trichlorophenol	7.66	196	44724	4.91186	ppb		99
45)	2,4,5-Trichlorophenol	7.70	196	47561	4.90189	ppb		98
47)	1,1'-Biphenyl	7.89	154	169036	4.95293	ppb		98
48)	2-Chloronaphthalene	7.90	162	133473	4.96496	ppb		98
49)	2-Nitroaniline	8.02	65	30540	4.51608	ppb		99
50)	Dimethyl phthalate	8.24	163	159491	4.99723	ppb		100
51)	2,6-DNT	8.31	165	32251	4.37339	ppb		96
52)	Acenaphthylene	8.38	152	203875	4.96211	ppb		99
53)	3-Nitroaniline	8.02	138	39061	4.35954	ppb		97
54)	Acenaphthene	8.58	154	135729	5.12585	ppb		99
55)	2,4-Dinitrophenol	8.61	184	2676	14.40545	ppb	#	76
56)	4-Nitrophenol	8.68	65	16620	3.63593	ppb		100
57)	Dibenzofuran	8.78	168	192534	5.04183	ppb		97
58)	2,4-DNT	8.77	165	43731	4.32291	ppb		88
59)	2,3,4,6-Tetrachlorophenol	8.93	232	37911	4.90306	ppb	#	88
60)	Diethyl phthalate	9.07	149	154007	4.98862	ppb		96
61)	4-Chlorophenyl phenyl ethe	9.20	204	86504	4.89026	ppb		90
62)	Fluorene	9.18	166	154595	4.80618	ppb		98
63)	4-Nitroaniline	8.49	138	34823	4.65461	ppb		88
66)	4,6-Dinitro-2-methylphenol	9.23	198	13188	1.91548	ppb	#	75
67)	Diphenyl amine	9.33	169	253502	9.63821	ppb		98
68)	n-Nitrosodiphenylamine	9.33	169	253502	9.63821	ppb		98
69)	1,2-Diphenylhydrazine	9.37	77	123757	4.50039	ppb		98
70)	4-Bromophenyl phenyl ether	9.76	248	50055	4.67893	ppb	#	89
71)	Hexachlorobenzene	9.82	284	53411	4.68093	ppb		95
72)	Atrazine	9.96	200	22023	2.25969	ppb		96
73)	Pentachlorophenol	10.05	266	26716	4.28442	ppb		96
74)	Phenanthrene	10.30	178	234788	4.95281	ppb		99
75)	Anthracene	10.36	178	238324	4.86048	ppb		100
76)	Carbazol	10.54	167	214401	4.85351	ppb		99
77)	Di-n-butylphthalate	10.99	149	244243	4.57482	ppb		99
78)	Fluoranthene	11.68	202	260481	4.74656	ppb		98
80)	Benzidine	11.85	184	67831	9.77949	ppb	#	98
81)	Pyrene	11.94	202	276641	5.01631	ppb		100
83)	Butyl benzylphthalate	12.73	149	102157	4.37279	ppb		88
84)	3,3'-Dichlorobenzidine	13.33	252	83398	4.54517	ppb	#	97
85)	Benz (a) anthracene	13.35	228	266101	4.65566	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.41	149	144972	4.51925	ppb	#	93
87)	Chrysene	13.38	228	268306	5.11347	ppb		99
88)	Di-n-octylphthalate	14.14	149	208993	3.83482	ppb		96
90)	Benzo (b) fluoranthene	14.57	252	227849	3.97078	ppb		98
91)	Benzo (k) fluoranthene	14.60	252	262261	5.45232	ppb		98
92)	Benzo (a) pyrene	14.98	252	220313	4.38300	ppb		97
93)	Indeno (1,2,3-cd) pyrene	16.73	276	245585	4.86013	ppb		96
94)	Dibenz (a,h) anthracene	16.77	278	221214	4.35032	ppb		97
95)	Benzo (g,h,i) perylene	17.22	276	223157	4.50748	ppb		99

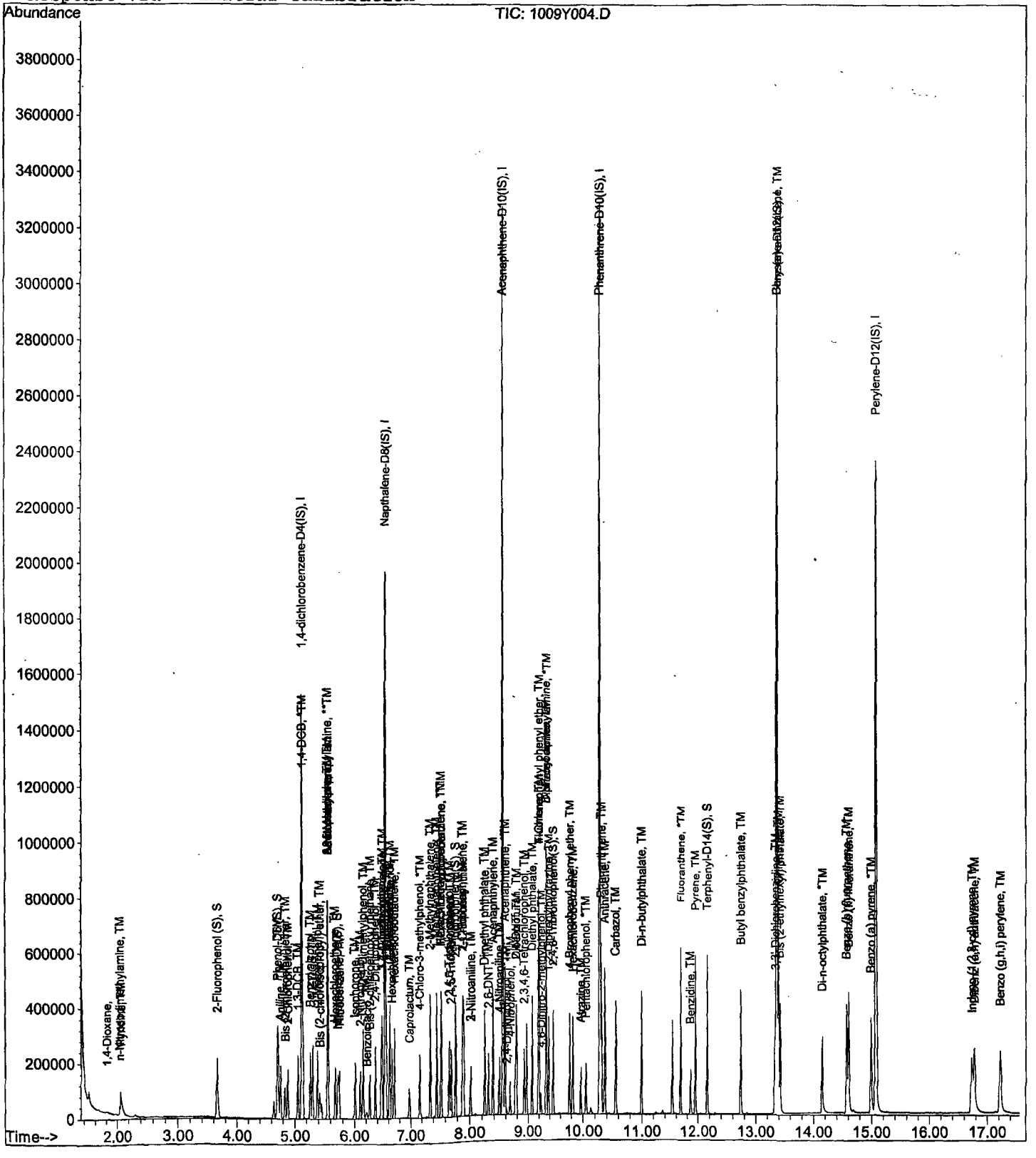
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y004.D Vial: 4
Acq On : 9 Oct 20 11:40 Operator: MA
Sample : 5ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:38 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	211409	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	859818	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	520738	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1015162	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1017473	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	991671	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	156796	19.96527 ppb	0.00
Spiked Amount 200.000			Recovery	= 9.983%	
6) Phenol-D6 (S)	4.70	99	197438	19.84875 ppb	0.00
Spiked Amount 200.000			Recovery	= 9.925%	
22) Nitrobenzene-D5(S)	5.72	82	87568	9.68508 ppb	0.00
Spiked Amount 100.000			Recovery	= 9.685%	
46) 2-Fluorobiphenyl(S)	7.77	172	214475	9.88509 ppb	0.00
Spiked Amount 100.000			Recovery	= 9.885%	
64) 2,4,6-Tribromophenol(S)	9.46	330	67086	18.32827 ppb	-0.02
Spiked Amount 200.000			Recovery	= 9.164%	
82) Terphenyl-D14(S)	12.15	244	281289	9.71097 ppb	0.00
Spiked Amount 100.000			Recovery	= 9.711%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	1422m	0.73378	60
3) n-Nitrosodimethylamine	2.04	42	26386	10.29636 ppb	98
4) Pyridine	2.06	79	78803	9.93497 ppb	95
7) Phenol	4.71	94	110411	9.24768 ppb	94
8) Aniline	4.75	93	112408	13.61351 ppb	99
9) Bis (2-chloroethyl) ether	4.83	63	46713	9.93571 ppb	83
10) 2-Chlorophenol	4.88	128	97782	10.13374 ppb	99
11) 1,3-DCB	5.05	146	107275	10.21065 ppb	96
12) 1,4-DCB	5.13	146	109450	10.26007 ppb	96
13) Benzyl alcohol	5.26	108	54672	10.37964 ppb	98
14) 1,2-DCB	5.30	146	102762	10.29207 ppb	98
15) 2-Methylphenol	5.38	107	72503	9.75630 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	63573	10.41092 ppb	95
17) Acetophenone	5.56	105	125252	10.63650 ppb	75
18) 3&4-Methylphenol	5.55	107	195207	20.66653 ppb	97
19) n-Nitrosodi-n-propylamine	5.56	70	63491	10.28449 ppb	97
20) Hexachloroethane	5.67	117	37728	9.99851 ppb	77
23) Nitrobenzene	5.74	77	91971	9.95428 ppb	98
24) Isophorone	6.01	82	157472	9.82437 ppb	94
25) 2-Nitrophenol	6.10	139	51426	9.09397 ppb	90
26) 2,4-Dimethylphenol	6.14	122	84524	9.91589 ppb	97
27) Benzoic acid	6.22	105	25651	8.90070 ppb	93
28) Bis (2-chloroethoxy) metha	6.26	93	101899	10.12253 ppb	98
29) 2,4-Dichlorophenol	6.36	162	85540	9.96738 ppb	97
30) 1,2,4-Trichlorobenzene	6.47	180	96262	9.89599 ppb	95
31) 3,4-Dimethylphenol	6.48	107	119988	9.95758 ppb	98
32) Naphthalene	6.55	128	282779	9.98765 ppb	99
33) 4-Chloroaniline	6.61	127	120459	10.82017 ppb	98
34) 2,6-Dichlorophenol	6.62	162	84470	9.89248 ppb	97
35) Hexachloropropene	6.65	213	65625	9.00443 ppb	95
36) Hexachlorobutadiene	6.70	225	58596	9.84663 ppb	98
37) Caprolactum	6.98	55	26692	9.36269 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:38 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.16	107	87025	10.06512	ppb		99
39)	2-Methylnaphthalene	7.34	142	188174	9.89230	ppb		100
40)	1-Methylnaphthalene	7.45	142	196666	10.05622	ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	71256	12.98649	ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	103616	9.97288	ppb		97
44)	2,4,6-Trichlorophenol	7.67	196	66602	10.08176	ppb		99
45)	2,4,5-Trichlorophenol	7.70	196	69510	9.87424	ppb		99
47)	1,1'-Biphenyl	7.89	154	243153	9.81989	ppb		98
48)	2-Chloronaphthalene	7.90	162	195930	10.04539	ppb		97
49)	2-Nitroaniline	8.02	65	46170	9.41015	ppb		99
50)	Dimethyl phthalate	8.24	163	233303	10.07527	ppb		100
51)	2,6-DNT	8.31	165	48055	8.98168	ppb		97
52)	Acenaphthylene	8.38	152	295539	9.91427	ppb		99
53)	3-Nitroaniline	8.02	138	61198	9.41409	ppb		98
54)	Acenaphthene	8.58	154	197234	10.26642	ppb		99
55)	2,4-Dinitrophenol	8.61	184	7249	15.73076	ppb		95
56)	4-Nitrophenol	8.68	65	29458	8.88242	ppb		94
57)	Dibenzofuran	8.79	168	280021	10.10682	ppb		94
58)	2,4-DNT	8.77	165	68450	9.32618	ppb		86
59)	2,3,4,6-Tetrachlorophenol	8.93	232	56312	10.03798	ppb	#	91
60)	Diethyl phthalate	9.07	149	227834	10.17189	ppb		96
61)	4-Chlorophenyl phenyl ethe	9.20	204	127415	9.92795	ppb		93
62)	Fluorene	9.18	166	228130	9.77532	ppb		98
63)	4-Nitroaniline	8.49	138	54164	9.97864	ppb		86
66)	4,6-Dinitro-2-methylphenol	9.23	198	26610	5.31765	ppb	#	89
67)	Diphenyl amine	9.33	169	371199	19.41774	ppb		99
68)	n-Nitrosodiphenylamine	9.33	169	371199	19.41774	ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	185164	9.26434	ppb		96
70)	4-Bromophenyl phenyl ether	9.76	248	72113	9.27448	ppb	#	91
71)	Hexachlorobenzene	9.82	284	79404	9.57461	ppb		93
72)	Atrazine	9.96	200	34643	4.89062	ppb		98
73)	Pentachlorophenol	10.05	266	44666	9.85541	ppb		97
74)	Phenanthrene	10.30	178	335804	9.74628	ppb		99
75)	Anthracene	10.36	178	344578	9.66888	ppb		100
76)	Carbazol	10.55	167	315150	9.81574	ppb		96
77)	Di-n-butylphthalate	10.99	149	366967	9.45705	ppb		99
78)	Fluoranthene	11.69	202	383069	9.60410	ppb		98
80)	Benzidine	11.85	184	114148	14.70810	ppb		98
81)	Pyrene	11.95	202	405458	10.11950	ppb		99
83)	Butyl benzylphthalate	12.73	149	155110	9.13850	ppb		86
84)	3,3'-Dichlorobenzidine	13.33	252	127488	9.56333	ppb	#	97
85)	Benz (a) anthracene	13.35	228	396810	9.55571	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.41	149	220414	9.45728	ppb	#	93
87)	Chrysene	13.38	228	389144	10.20800	ppb		99
88)	Di-n-octylphthalate	14.15	149	337683	8.52839	ppb		96
90)	Benzo (b) fluoranthene	14.57	252	343740	8.32714	ppb		98
91)	Benzo (k) fluoranthene	14.60	252	387493	11.19822	ppb	#	98
92)	Benzo (a) pyrene	14.98	252	333690	9.22810	ppb		97
93)	Indeno (1,2,3-cd) pyrene	16.73	276	373809	10.28332	ppb		98
94)	Dibenz (a,h) anthracene	16.77	278	330018	9.02161	ppb		98
95)	Benzo (g,h,i) perylene	17.22	276	329165	9.24218	ppb		99

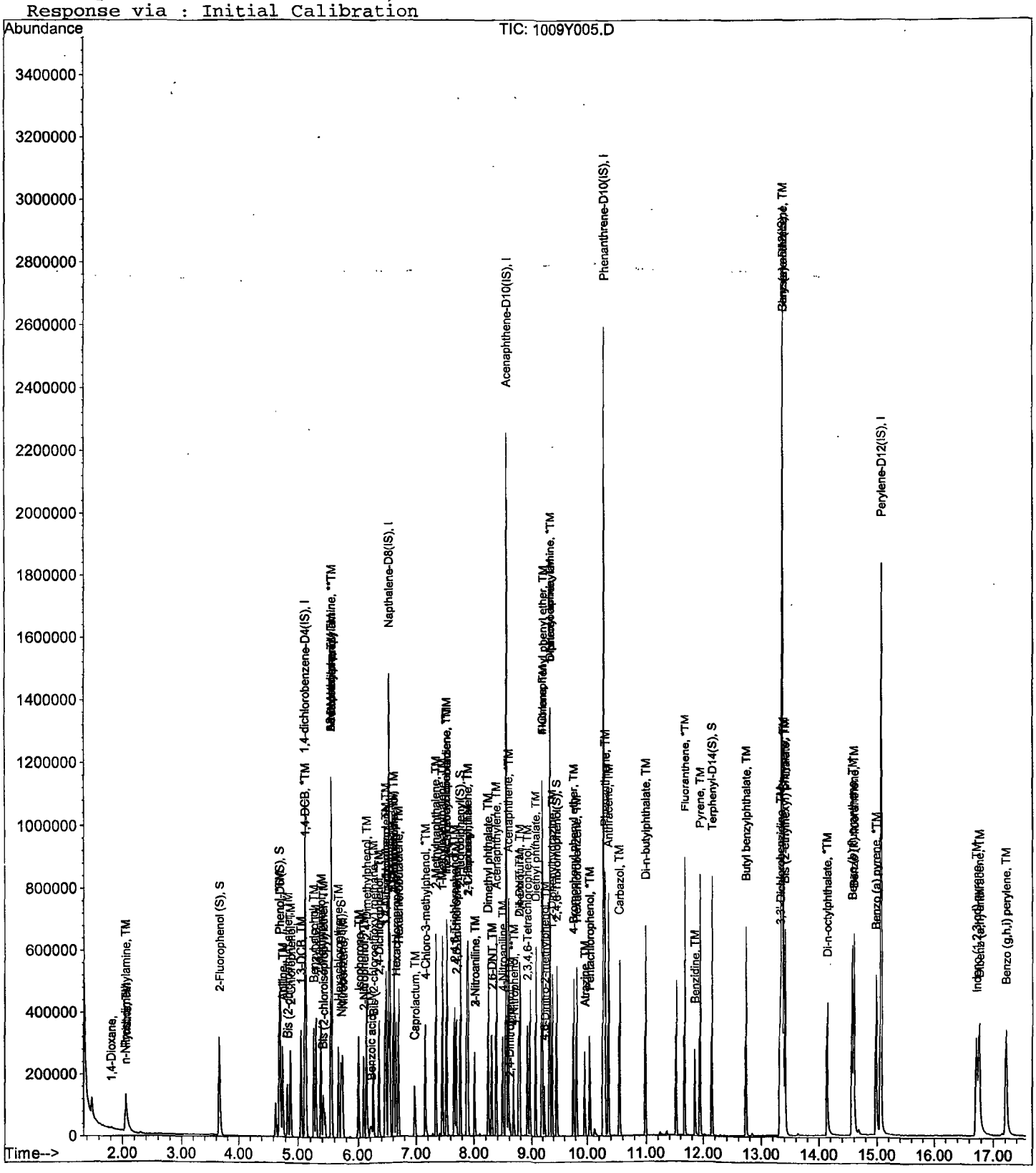
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:38 2020 Quant Results File: Y1009.RES

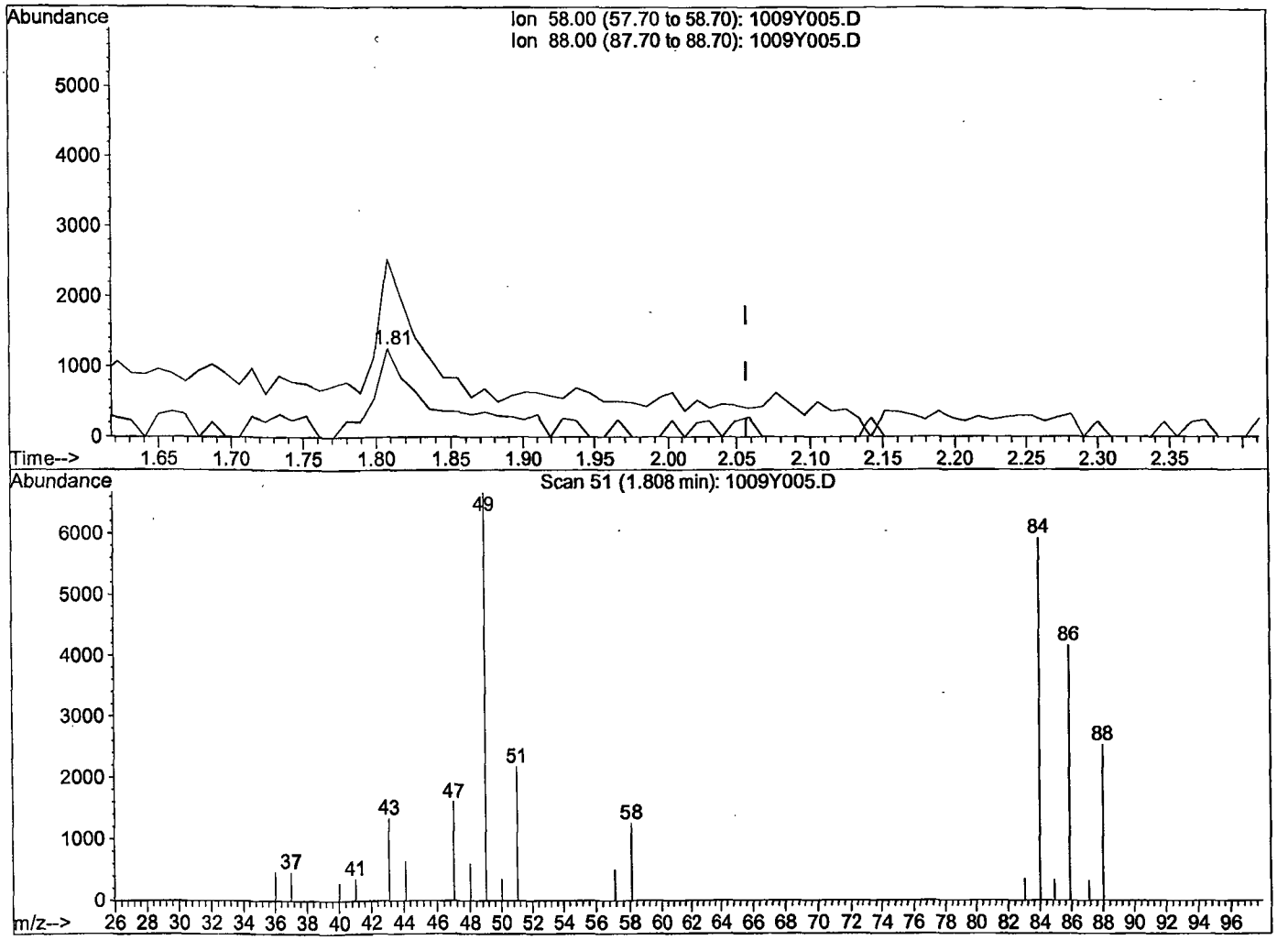
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:30 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration



TIC: 1009Y005.D

(2) 1,4-Dioxane

1.81min 1.9222

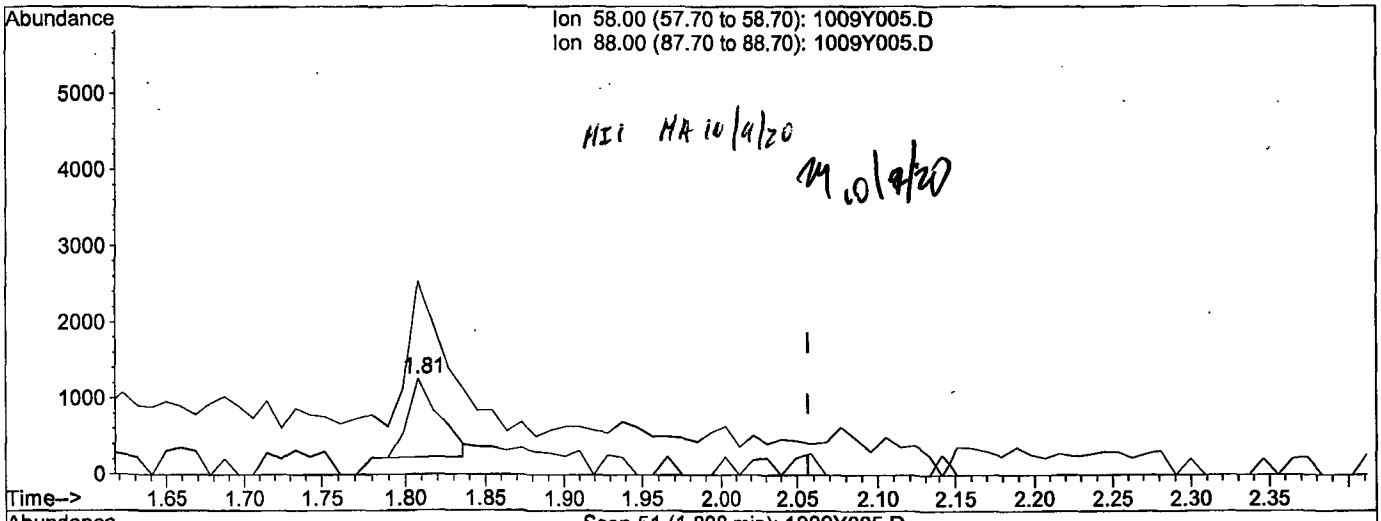
response 3725

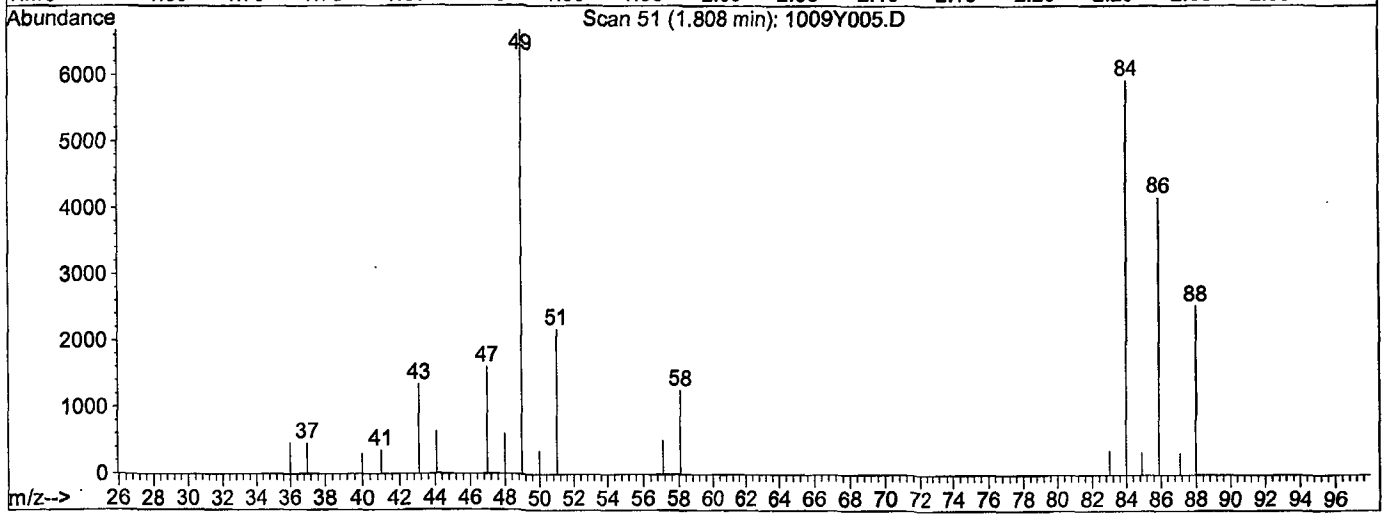
Ion	Exp%	Act%
58.00	100	100
88.00	166.30	112.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:38 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration





TIC: 1009Y005.D

(2) 1,4-Dioxane

1.81min 0.7338 m

response 1422

Ion	Exp%	Act%
58.00	100	100
88.00	166.30	293.95#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y006.D Vial: 6
Acq On : 9 Oct 20 12:31 Operator: MA
Sample : 20ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	192915	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	808395	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	497350	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	966917	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.36	240	984198	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.06	264	957201	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.66	112	314553	43.89261 ppb		0.00
Spiked Amount 200.000			Recovery = 21.947%			
6) Phenol-D6 (S)	4.70	99	396252	43.65473 ppb		0.00
Spiked Amount 200.000			Recovery = 21.828%			
22) Nitrobenzene-D5(S)	5.73	82	174518	20.52963 ppb		0.00
Spiked Amount 100.000			Recovery = 20.530%			
46) 2-Fluorobiphenyl(S)	7.77	172	418559	20.19844 ppb		0.00
Spiked Amount 100.000			Recovery = 20.198%			
64) 2,4,6-Tribromophenol(S)	9.47	330	136914	39.16469 ppb		0.00
Spiked Amount 200.000			Recovery = 19.583%			
82) Terphenyl-D14(S)	12.15	244	557548	19.89906 ppb		0.00
Spiked Amount 100.000			Recovery = 19.899%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	3788	2.14207		89
3) n-Nitrosodimethylamine	2.03	42	59620	25.49526 ppb		95
4) Pyridine	2.05	79	160790	22.21470 ppb		95
7) Phenol	4.71	94	227978	20.92525 ppb		88
8) Aniline	4.75	93	194560	25.82165 ppb		98
9) Bis (2-chloroethyl) ether	4.83	63	88955	20.73427 ppb		85
10) 2-Chlorophenol	4.88	128	183288	20.81624 ppb		97
11) 1,3-DCB	5.05	146	200236	20.88597 ppb		97
12) 1,4-DCB	5.13	146	205197	21.07963 ppb		97
13) Benzyl alcohol	5.26	108	103551	21.54414 ppb		99
14) 1,2-DCB	5.30	146	191770	21.04788 ppb		97
15) 2-Methylphenol	5.38	107	136626	20.14745 ppb		97
16) Bis (2-chloroisopropyl) et	5.42	45	120266	21.58325 ppb		98
17) Acetophenone	5.56	105	238947	22.23684 ppb		86
18) 3&4-Methylphenol	5.55	107	373935	43.38362 ppb		92
19) n-Nitrosodi-n-propylamine	5.56	70	122321	21.71346 ppb		91
20) Hexachloroethane	5.67	117	72139	20.95073 ppb		76
23) Nitrobenzene	5.74	77	177791	20.46688 ppb		94
24) Isophorone	6.01	82	298471	19.80553 ppb		98
25) 2-Nitrophenol	6.10	139	104580	19.66992 ppb		91
26) 2,4-Dimethylphenol	6.14	122	169548	21.15570 ppb		98
27) Benzoic acid	6.24	105	60551	15.08044 ppb		97
28) Bis (2-chloroethoxy) metha	6.26	93	189163	19.98658 ppb		98
29) 2,4-Dichlorophenol	6.37	162	162407	20.12793 ppb		94
30) 1,2,4-Trichlorobenzene	6.47	180	183956	20.11413 ppb		97
31) 3,4-Dimethylphenol	6.48	107	227135	20.04854 ppb		96
32) Naphthalene	6.55	128	531374	19.96178 ppb		99
33) 4-Chloroaniline	6.62	127	230010	21.97478 ppb	#	93
34) 2,6-Dichlorophenol	6.62	162	158102	19.69350 ppb		97
35) Hexachloropropene	6.65	213	130609	19.06088 ppb		98
36) Hexachlorobutadiene	6.70	225	111431	19.91630 ppb		98
37) Caprolactum	7.00	55	54071	20.17283 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y006.D Vial: 6
Acq On : 9 Oct 20 12:31 Operator: MA
Sample : 20ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38) 4-Chloro-3-methylphenol	7.16	107	166541	20.48704 ppb		99
39) 2-Methylnaphthalene	7.34	142	354209	19.80525 ppb		100
40) 1-Methylnaphthalene	7.45	142	366039	19.90745 ppb		99
42) Hexachlorocyclopentadiene	7.53	237	142464	25.68209 ppb		97
43) 1,2,4,5-Tetrachlorobenzene	7.54	216	194757	19.62656 ppb		98
44) 2,4,6-Trichlorophenol	7.67	196	129817	20.57491 ppb		99
45) 2,4,5-Trichlorophenol	7.70	196	138553	20.60769 ppb		97
47) 1,1'-Biphenyl	7.89	154	468875	19.82627 ppb		97
48) 2-Chloronaphthalene	7.91	162	370608	19.89472 ppb		96
49) 2-Nitroaniline	8.02	65	94429	20.15112 ppb		93
50) Dimethyl phthalate	8.25	163	449533	20.32615 ppb		97
51) 2,6-DNT	8.31	165	97966	19.17130 ppb		95
52) Acenaphthylene	8.38	152	572109	20.09471 ppb		99
53) 3-Nitroaniline	8.02	138	121616	19.58794 ppb		98
54) Acenaphthene	8.58	154	379587	20.68739 ppb		99
55) 2,4-Dinitrophenol	8.61	184	25517	20.59204 ppb		85
56) 4-Nitrophenol	8.68	65	63627	20.08752 ppb		88
57) Dibenzofuran	8.79	168	544443	20.57471 ppb		95
58) 2,4-DNT	8.77	165	141115	20.13078 ppb		95
59) 2,3,4,6-Tetrachlorophenol	8.93	232	113602	21.20257 ppb		92
60) Diethyl phthalate	9.08	149	441192	20.62377 ppb		99
61) 4-Chlorophenyl phenyl ethe	9.20	204	249437	20.34966 ppb		93
62) Fluorene	9.19	166	439128	19.70139 ppb		100
63) 4-Nitroaniline	8.49	138	104872	20.22914 ppb		95
66) 4,6-Dinitro-2-methylphenol	9.24	198	73122	15.34155 ppb		93
67) Diphenyl amine	9.34	169	716408	39.34581 ppb		99
68) n-Nitrosodiphenylamine	9.34	169	716408	39.34581 ppb		99
69) 1,2-Diphenylhydrazine	9.37	77	355993	18.70017 ppb		92
70) 4-Bromophenyl phenyl ether	9.76	248	140233	18.93532 ppb	#	88
71) Hexachlorobenzene	9.82	284	152151	19.26192 ppb	#	90
72) Atrazine	9.96	200	67395	9.98901 ppb		99
73) Pentachlorophenol	10.05	266	97914	22.68238 ppb		97
74) Phenanthrene	10.30	178	661795	20.16614 ppb		99
75) Anthracene	10.36	178	672912	19.82408 ppb		100
76) Carbazol	10.55	167	619232	20.24909 ppb		96
77) Di-n-butylphthalate	10.99	149	734338	19.86876 ppb		99
78) Fluoranthene	11.69	202	737851	19.42202 ppb		97
80) Benzidine	11.85	184	233994	24.41519 ppb	#	98
81) Pyrene	11.95	202	792842	20.45692 ppb		99
83) Butyl benzylphthalate	12.73	149	323994	19.73389 ppb		84
84) 3,3'-Dichlorobenzidine	13.33	252	263658	20.44660 ppb	#	97
85) Benz (a) anthracene	13.35	228	782163	19.47233 ppb		100
86) Bis (2-ethylhexyl) phthala	13.41	149	448969	19.91516 ppb	#	93
87) Chrysene	13.39	228	761218	20.64333 ppb		99
88) Di-n-octylphthalate	14.15	149	725589	18.94475 ppb		95
90) Benzo (b) fluoranthene	14.57	252	731637	18.36224 ppb		99
91) Benzo (k) fluoranthene	14.61	252	710650	21.27676 ppb		100
92) Benzo (a) pyrene	14.99	252	689928	19.76683 ppb		99
93) Indeno (1,2,3-cd) pyrene	16.74	276	749939	21.37342 ppb		99
94) Dibenz (a,h) anthracene	16.78	278	661450	18.73302 ppb		97
95) Benzo (g,h,i) perylene	17.24	276	658600	19.15786 ppb		98

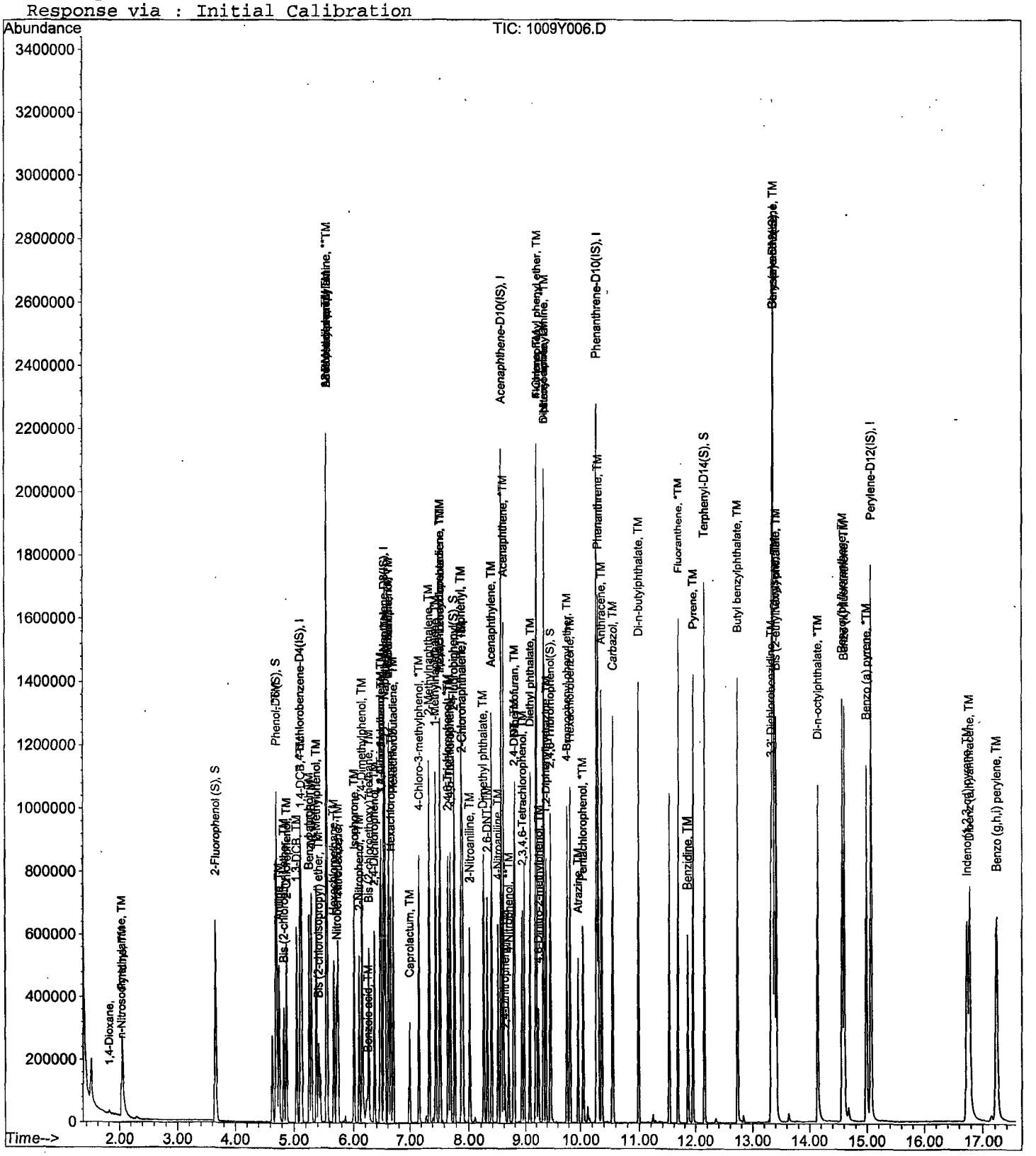
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y006.D Vial: 6
Acq On : 9 Oct 20 12:31 Operator: MA
Sample : 20ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:40 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	212035	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	854538	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	517005	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.28	188	1018808	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.37	240	1051031	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.07	264	1020267	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.66	112	634034	80.49494 ppb		0.00
Spiked Amount 200.000			Recovery	= 40.248%		
6) Phenol-D6 (S)	4.71	99	791612	79.34703 ppb		0.00
Spiked Amount 200.000			Recovery	= 39.674%		
22) Nitrobenzene-D5(S)	5.73	82	352039	39.17634 ppb		0.00
Spiked Amount 100.000			Recovery	= 39.176%		
46) 2-Fluorobiphenyl(S)	7.78	172	846283	39.28656 ppb		0.00
Spiked Amount 100.000			Recovery	= 39.287%		
64) 2,4,6-Tribromophenol(S)	9.47	330	283940	78.13413 ppb		0.00
Spiked Amount 200.000			Recovery	= 39.067%		
82) Terphenyl-D14(S)	12.15	244	1156658	38.65648 ppb		0.00
Spiked Amount 100.000			Recovery	= 38.656%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	7640	3.93075		90
3) n-Nitrosodimethylamine	2.03	42	110402	42.95393 ppb		98
4) Pyridine	2.05	79	306592	38.53901 ppb		99
7) Phenol	4.72	94	463809	38.73249 ppb		96
8) Aniline	4.76	93	336320	40.61080 ppb		98
9) Bis (2-chloroethyl) ether	4.84	63	184887	39.20878 ppb		93
10) 2-Chlorophenol	4.88	128	378288	39.08852 ppb		95
11) 1,3-DCB	5.06	146	394833	37.47005 ppb		99
12) 1,4-DCB	5.13	146	403302	37.69475 ppb		97
13) Benzyl alcohol	5.26	108	207791	39.33326 ppb		92
14) 1,2-DCB	5.30	146	377953	37.74192 ppb		98
15) 2-Methylphenol	5.38	107	273697	36.72106 ppb		97
16) Bis (2-chloroisopropyl) et	5.42	45	237348	38.75413 ppb		95
17) Acetophenone	5.56	105	478394	40.50566 ppb		93
18) 3&4-Methylphenol	5.56	107	757832	79.99466 ppb		97
19) n-Nitrosodi-n-propylamine	5.57	70	246849	39.86740 ppb		98
20) Hexachloroethane	5.67	117	144939	38.29770 ppb		76
23) Nitrobenzene	5.74	77	351360	38.26364 ppb		91
24) Isophorone	6.01	82	599785	37.65063 ppb		97
25) 2-Nitrophenol	6.10	139	214038	38.08351 ppb	#	86
26) 2,4-Dimethylphenol	6.14	122	330250	38.98251 ppb		96
27) Benzoic acid	6.23	105	206981m	38.02135 ppb		98
28) Bis (2-chloroethoxy) metha	6.26	93	380455	38.02750 ppb		99
29) 2,4-Dichlorophenol	6.37	162	326752	38.30937 ppb		95
30) 1,2,4-Trichlorobenzene	6.47	180	361788	37.42257 ppb		97
31) 3,4-Dimethylphenol	6.49	107	468655	39.13310 ppb		99
32) Naphthalene	6.55	128	1064880	37.84355 ppb		99
33) 4-Chloroaniline	6.62	127	463963	41.93276 ppb		96
34) 2,6-Dichlorophenol	6.63	162	324881	38.28265 ppb		97
35) Hexachloropropene	6.65	213	264065	36.45632 ppb		97
36) Hexachlorobutadiene	6.70	225	226657	38.32340 ppb		99
37) Caprolactum	7.03	55	110677	39.06178 ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:40 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	332232	38.66266 ppb		93
39) 2-Methylnaphthalene	7.34	142	712074	37.66500 ppb		99
40) 1-Methylnaphthalene	7.46	142	747350	38.45072 ppb		98
42) Hexachlorocyclopentadiene	7.53	237	266304	45.08437 ppb		97
43) 1,2,4,5-Tetrachlorobenzene	7.54	216	396423	38.43061 ppb		99
44) 2,4,6-Trichlorophenol	7.67	196	266713	40.66473 ppb		96
45) 2,4,5-Trichlorophenol	7.70	196	280347	40.11223 ppb		93
47) 1,1'-Biphenyl	7.89	154	956404	38.90387 ppb		97
48) 2-Chloronaphthalene	7.91	162	757162	39.10021 ppb		97
49) 2-Nitroaniline	8.02	65	190271	39.06014 ppb		83
50) Dimethyl phthalate	8.25	163	899127	39.10948 ppb		98
51) 2,6-DNT	8.31	165	201507	37.93445 ppb	#	81
52) Acenaphthylene	8.38	152	1157318	39.10418 ppb		100
53) 3-Nitroaniline	8.02	138	250735	38.84905 ppb		94
54) Acenaphthene	8.59	154	762724	39.98796 ppb		100
55) 2,4-Dinitrophenol	8.61	184	82583	34.69107 ppb		85
56) 4-Nitrophenol	8.69	65	138343	42.01550 ppb		91
57) Dibenzofuran	8.79	168	1092529	39.71747 ppb		97
58) 2,4-DNT	8.77	165	291100	39.94817 ppb		93
59) 2,3,4,6-Tetrachlorophenol	8.93	232	233724	41.96365 ppb		94
60) Diethyl phthalate	9.08	149	879121	39.53270 ppb		98
61) 4-Chlorophenyl phenyl ethe	9.20	204	505486	39.67096 ppb		94
62) Fluorene	9.19	166	903585	38.99799 ppb		99
63) 4-Nitroaniline	8.50	138	215127	39.91904 ppb	#	79
66) 4,6-Dinitro-2-methylphenol	9.24	198	177892	35.42211 ppb		92
67) Diphenyl amine	9.34	169	1471327	76.69095 ppb		100
68) n-Nitrosodiphenylamine	9.34	169	1471327	76.69095 ppb		100
69) 1,2-Diphenylhydrazine	9.38	77	713667	35.57923 ppb	#	89
70) 4-Bromophenyl phenyl ether	9.76	248	287510	36.84446 ppb	#	87
71) Hexachlorobenzene	9.82	284	304827	36.62479 ppb	#	84
72) Atrazine	9.97	200	138004	19.41258 ppb		96
73) Pentachlorophenol	10.05	266	208610	45.86440 ppb		99
74) Phenanthrene	10.30	178	1303520	37.69762 ppb		99
75) Anthracene	10.37	178	1387082	38.78232 ppb		99
76) Carbazol	10.55	167	1228289	38.11970 ppb		98
77) Di-n-butylphthalate	10.99	149	1504720	38.63913 ppb		99
78) Fluoranthene	11.70	202	1524460	38.08366 ppb		98
80) Benzidine	11.85	184	477549	41.16107 ppb	#	97
81) Pyrene	11.96	202	1584435	38.28203 ppb		99
83) Butyl benzylphthalate	12.74	149	657082	37.47677 ppb	#	79
84) 3,3'-Dichlorobenzidine	13.33	252	546556	39.69005 ppb		99
85) Benz (a) anthracene	13.35	228	1593023	37.13724 ppb		99
86) Bis (2-ethylhexyl) phthala	13.41	149	927574	38.52858 ppb	#	93
87) Chrysene	13.39	228	1516346	38.50666 ppb		99
88) Di-n-octylphthalate	14.15	149	1554499	38.00631 ppb		97
90) Benzo (b) fluoranthene	14.57	252	1462171	34.42845 ppb		98
91) Benzo (k) fluoranthene	14.61	252	1504454	42.25888 ppb		98
92) Benzo (a) pyrene	14.99	252	1413745	38.00089 ppb		99
93) Indeno (1,2,3-cd) pyrene	16.75	276	1561010	41.73909 ppb		98
94) Dibenz (a,h) anthracene	16.79	278	1386808	36.84822 ppb		97
95) Benzo (g,h,i) perylene	17.25	276	1342256	36.63110 ppb		99

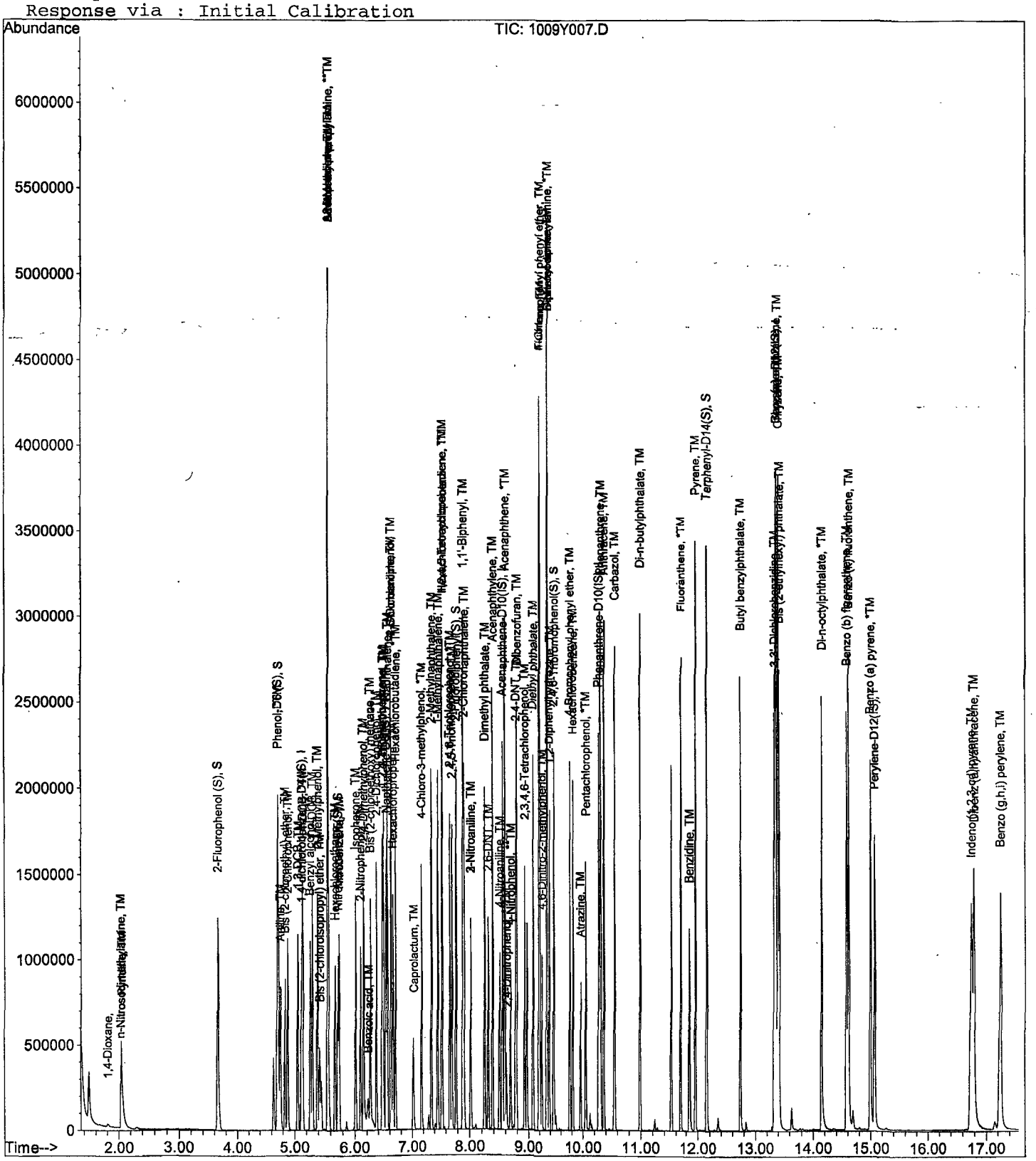
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:40 2020 Quant Results File: Y1009.RES

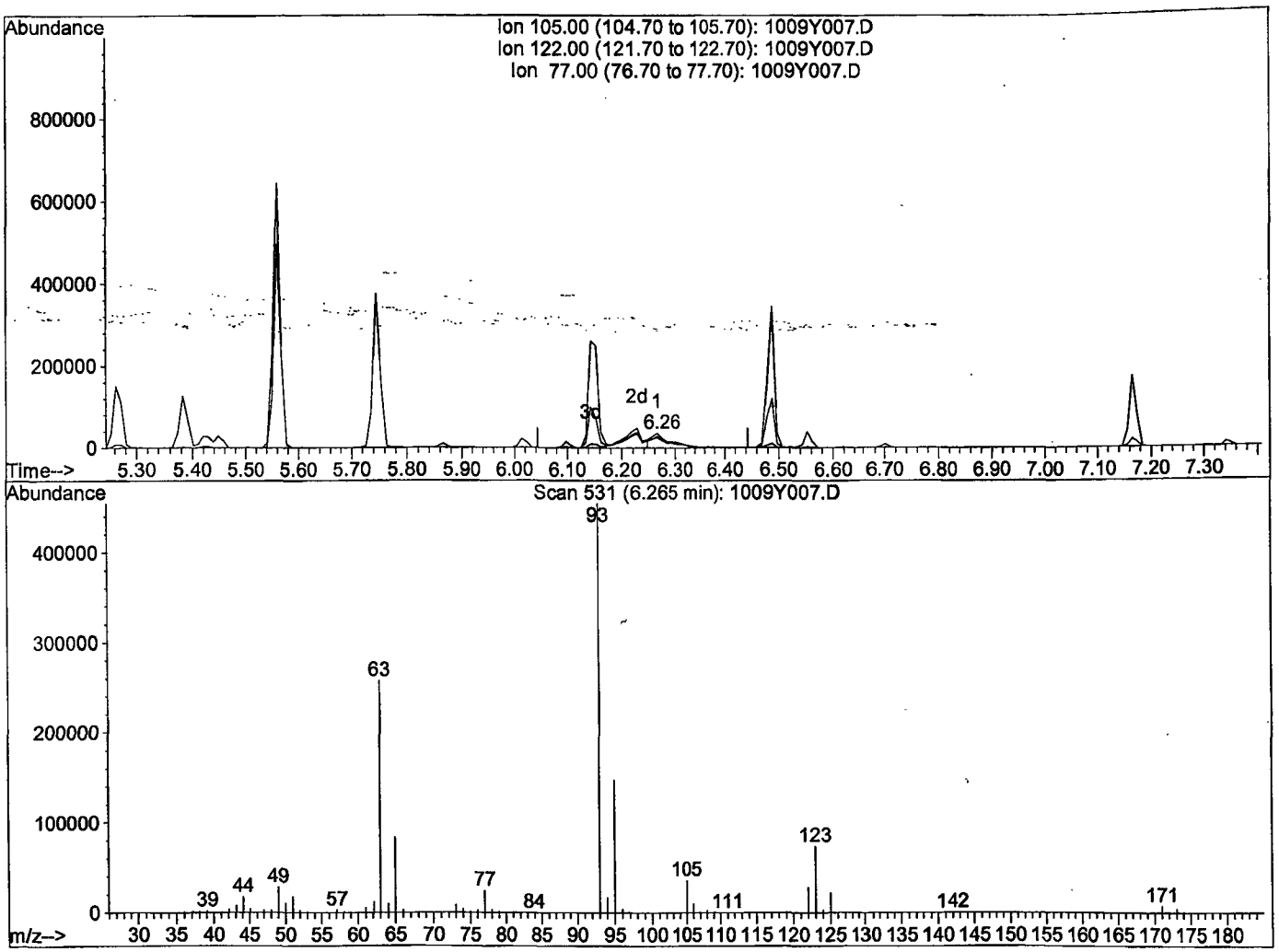
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:30 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration



TIC: 1009Y007.D

(27) Benzoic acid (TM)

6.26min 19.3185ppb

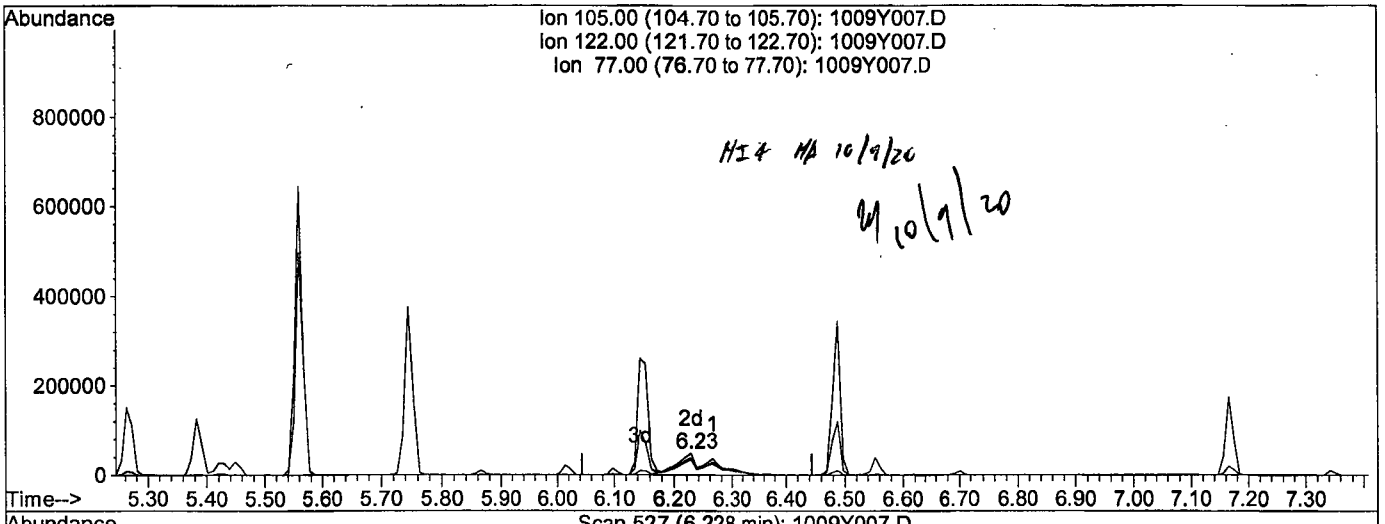
response 90420

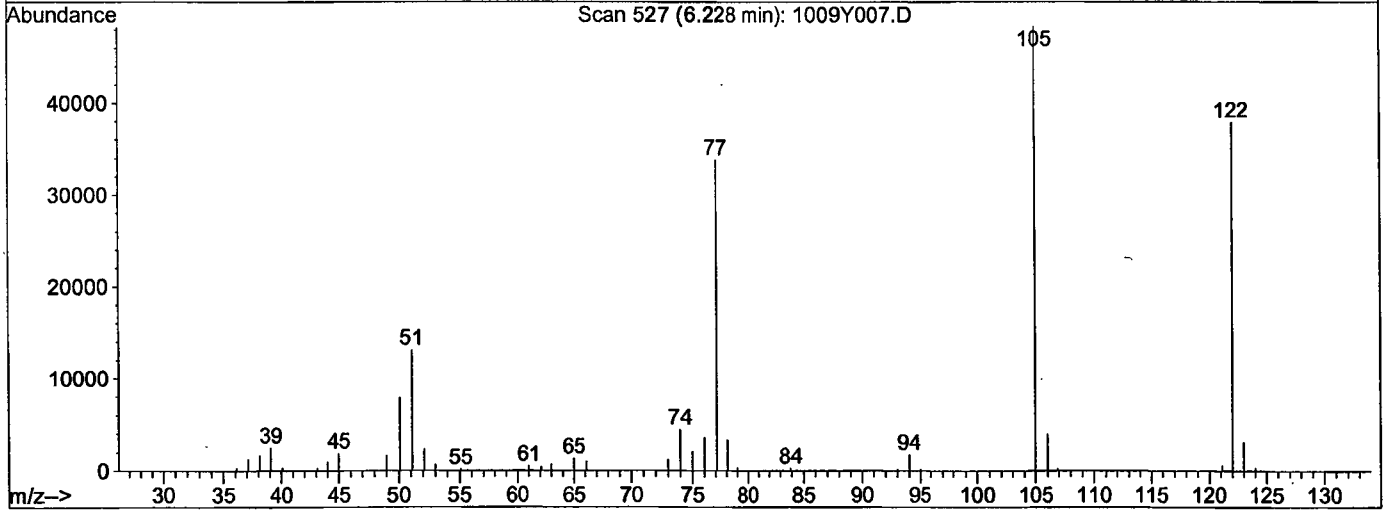
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	80.14
77.00	70.50	68.43
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:40 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration





TIC: 1009Y007.D

(27) Benzoic acid (TM)

6.23min 38.0214ppb m

response 206981

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	78.47
77.00	70.50	69.98
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y008.D Vial: 8
Acq On : 9 Oct 20 13:22 Operator: MA
Sample : 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216487	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	858051	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	523185	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1022290	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1056215	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1013157	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	810719	100.80965 ppb	0.00
Spiked Amount 200.000			Recovery	= 50.405%	
6) Phenol-D6 (S)	4.71	99	1029543	101.07379 ppb	0.00
Spiked Amount 200.000			Recovery	= 50.537%	
22) Nitrobenzene-D5(S)	5.72	82	450529	49.93145 ppb	0.00
Spiked Amount 100.000			Recovery	= 49.931%	
46) 2-Fluorobiphenyl(S)	7.78	172	1089455	49.97781 ppb	0.00
Spiked Amount 100.000			Recovery	= 49.978%	
64) 2,4,6-Tribromophenol(S)	9.47	330	376831	102.47083 ppb	0.00
Spiked Amount 200.000			Recovery	= 51.236%	
82) Terphenyl-D14(S)	12.16	244	1512475	50.30009 ppb	0.00
Spiked Amount 100.000			Recovery	= 50.300%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	9503	4.78871	100
3) n-Nitrosodimethylamine	2.03	42	149986	57.15476 ppb	100
4) Pyridine	2.05	79	412325	50.76392 ppb	100
7) Phenol	4.73	94	607510	49.68959 ppb	100
8) Aniline	4.76	93	462784	54.73220 ppb	100
9) Bis (2-chloroethyl) ether	4.83	63	239837	49.81600 ppb	100
10) 2-Chlorophenol	4.89	128	492229	49.81609 ppb	100
11) 1,3-DCB	5.06	146	540948	50.28079 ppb	100
12) 1,4-DCB	5.14	146	544897	49.88162 ppb	100
13) Benzyl alcohol	5.27	108	277085	51.37147 ppb	100
14) 1,2-DCB	5.30	146	509402	49.82216 ppb	100
15) 2-Methylphenol	5.39	107	368851	48.46987 ppb	100
16) Bis (2-chloroisopropyl) et	5.43	45	311077	49.74805 ppb	100
17) Acetophenone	5.57	105	642698	53.29821 ppb	100
18) 3&4-Methylphenol	5.57	107	1047328	108.27957 ppb	100
19) n-Nitrosodi-n-propylamine	5.58	70	323078	51.10573 ppb	100
20) Hexachloroethane	5.68	117	194952	50.45345 ppb	100
23) Nitrobenzene	5.75	77	468128	50.77114 ppb	100
24) Isophorone	6.02	82	813175	50.83689 ppb	100
25) 2-Nitrophenol	6.10	139	289105	51.22948 ppb	100
26) 2,4-Dimethylphenol	6.15	122	442162	51.97885 ppb	100
27) Benzoic acid	6.24	105	299244	52.62886 ppb	100
28) Bis (2-chloroethoxy) metha	6.26	93	507198	50.48824 ppb	100
29) 2,4-Dichlorophenol	6.36	162	434049	50.68083 ppb	100
30) 1,2,4-Trichlorobenzene	6.47	180	487464	50.21579 ppb	100
31) 3,4-Dimethylphenol	6.49	107	602770	50.12575 ppb	100
32) Naphthalene	6.56	128	1419716	50.24709 ppb	100
33) 4-Chloroaniline	6.62	127	596438	53.68509 ppb	100
34) 2,6-Dichlorophenol	6.62	162	423025	49.64346 ppb	100
35) Hexachloropropene	6.66	213	368550	50.67301 ppb	100
36) Hexachlorobutadiene	6.70	225	298371	50.24233 ppb	100
37) Caprolactum	7.03	55	141614	49.77590 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y008.D Vial: 8
Acq On : 9 Oct 20 13:22 Operator: MA
Sample : 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	446433	51.73981 ppb	100
39)	2-Methylnaphthalene	7.35	142	963880	50.77549 ppb	100
40)	1-Methylnaphthalene	7.46	142	999858	51.23150 ppb	100
42)	Hexachlorocyclopentadiene	7.53	237	363392	60.31529 ppb	100
43)	1,2,4,5-Tetrachlorobenzene	7.53	216	532541	51.01654 ppb	100
44)	2,4,6-Trichlorophenol	7.67	196	360572	54.32568 ppb	100
45)	2,4,5-Trichlorophenol	7.71	196	364113	51.48213 ppb	100
47)	1,1'-Biphenyl	7.89	154	1244453	50.02296 ppb	100
48)	2-Chloronaphthalene	7.91	162	1001133	51.08831 ppb	100
49)	2-Nitroaniline	8.03	65	253004	51.32489 ppb	100
50)	Dimethyl phthalate	8.25	163	1185465	50.95528 ppb	100
51)	2,6-DNT	8.31	165	274265	51.02153 ppb	100
52)	Acenaphthylene	8.39	152	1549108	51.72394 ppb	100
53)	3-Nitroaniline	8.03	138	337593	51.68903 ppb	100
54)	Acenaphthene	8.59	154	1047109	54.24918 ppb	100
55)	2,4-Dinitrophenol	8.62	184	129461	46.09672 ppb	100
56)	4-Nitrophenol	8.69	65	191680	57.52659 ppb	100
57)	Dibenzofuran	8.79	168	1433529	51.49850 ppb	100
58)	2,4-DNT	8.78	165	384010	52.07589 ppb	100
59)	2,3,4,6-Tetrachlorophenol	8.93	232	314021	55.71448 ppb	100
60)	Diethyl phthalate	9.08	149	1167645	51.88694 ppb	100
61)	4-Chlorophenyl phenyl ethe	9.20	204	668203	51.82168 ppb	100
62)	Fluorene	9.19	166	1209118	51.56812 ppb	100
63)	4-Nitroaniline	8.50	138	276752	50.74759 ppb	100
66)	4,6-Dinitro-2-methylphenol	9.25	198	253948	50.39425 ppb	100
67)	Diphenyl amine	9.34	169	1971388	102.40596 ppb	100
68)	n-Nitrosodiphenylamine	9.34	169	1971388	102.40596 ppb	100
69)	1,2-Diphenylhydrazine	9.38	77	944276	46.91569 ppb	100
70)	4-Bromophenyl phenyl ether	9.77	248	387104	49.43848 ppb	100
71)	Hexachlorobenzene	9.83	284	421290	50.44535 ppb	100
72)	Atrazine	9.97	200	182289	25.55467 ppb	100
73)	Pentachlorophenol	10.05	266	285558	62.56813 ppb	100
74)	Phenanthrene	10.31	178	1753039	50.52497 ppb	100
75)	Anthracene	10.37	178	1815340	50.58338 ppb	100
76)	Carbazol	10.55	167	1623543	50.21471 ppb	100
77)	Di-n-butylphthalate	10.99	149	1976453	50.57972 ppb	100
78)	Fluoranthene	11.69	202	2036242	50.69560 ppb	100
80)	Benzidine	11.86	184	615350	51.07485 ppb	100
81)	Pyrene	11.95	202	2097962	50.44072 ppb	100
83)	Butyl benzylphthalate	12.74	149	900332	51.09854 ppb	100
84)	3,3'-Dichlorobenzidine	13.33	252	709576	51.27541 ppb	100
85)	Benz (a) anthracene	13.36	228	2138614	49.61159 ppb	100
86)	Bis (2-ethylhexyl) phthala	13.42	149	1255280	51.88457 ppb	100
87)	Chrysene	13.39	228	2029488	51.28463 ppb	100
88)	Di-n-octylphthalate	14.14	149	2084175	50.70638 ppb	100
90)	Benzo (b) fluoranthene	14.58	252	2061658	48.88471 ppb	100
91)	Benzo (k) fluoranthene	14.62	252	1871096	52.92638 ppb	100
92)	Benzo (a) pyrene	15.00	252	1897839	51.37113 ppb	100
93)	Indeno (1,2,3-cd) pyrene	16.75	276	2098572	56.50648 ppb	100
94)	Dibenz (a,h) anthracene	16.79	278	1855050	49.63555 ppb	100
95)	Benzo (g,h,i) perylene	17.25	276	1809092	49.71785 ppb	100

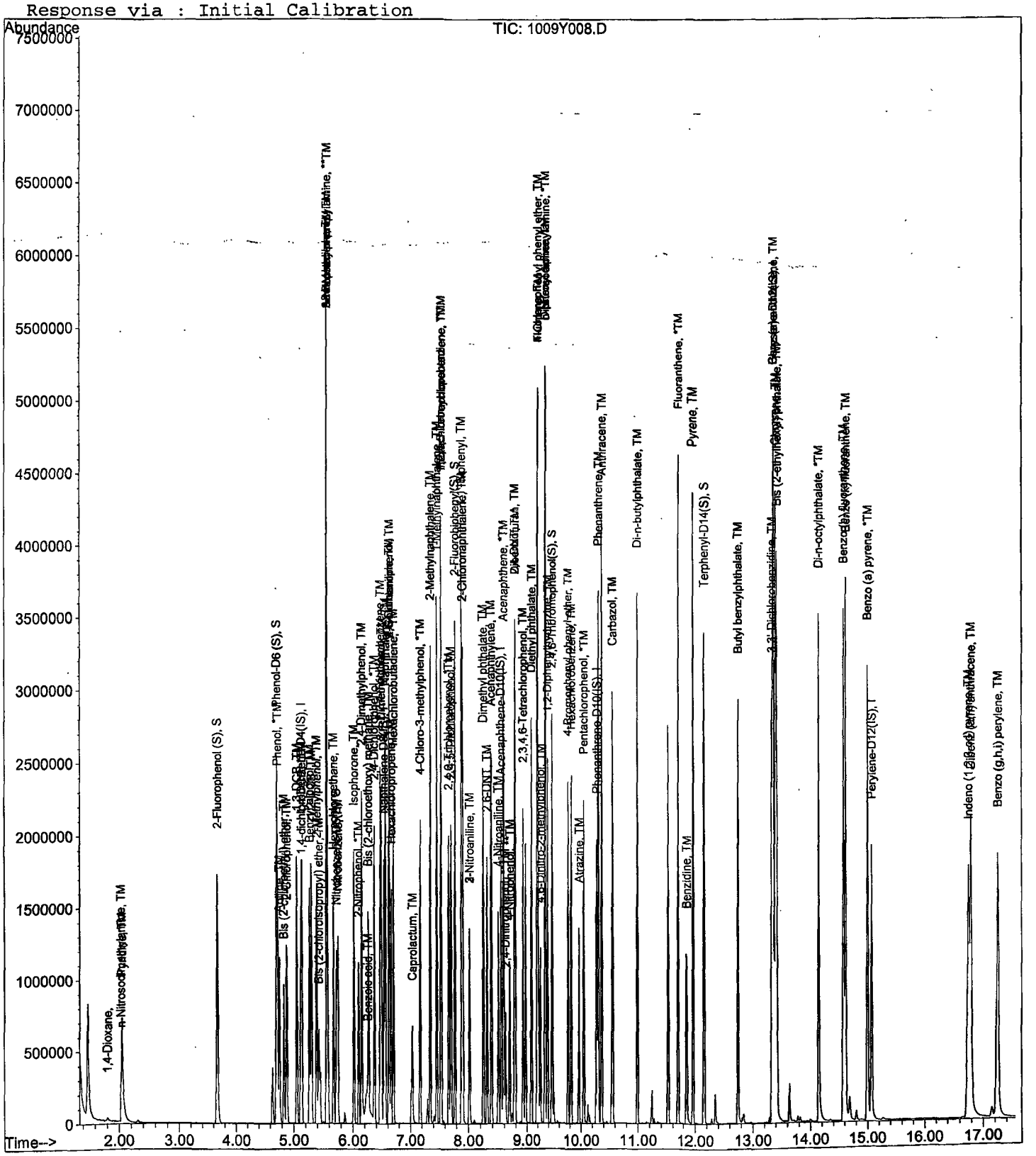
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y008.D Vial: 8
Acq On : 9 Oct 20 13:22 Operator: MA
Sample : 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y009.D Vial: 9
Acq On : 9 Oct 20 13:48 Operator: MA
Sample : 60ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216571	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.54	136	878795	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	534725	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1053468	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	1089141	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1050067	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	1008016	125.29412 ppb	0.00
Spiked Amount 200.000			Recovery = 62.647%		
6) Phenol-D6 (S)	4.72	99	1279112	125.52613 ppb	0.00
Spiked Amount 200.000			Recovery = 62.763%		
22) Nitrobenzene-D5(S)	5.73	82	558172	60.40112 ppb	0.00
Spiked Amount 100.000			Recovery = 60.401%		
46) 2-Fluorobiphenyl(S)	7.78	172	1364427	61.24110 ppb	0.00
Spiked Amount 100.000			Recovery = 61.241%		
64) 2,4,6-Tribromophenol(S)	9.47	330	469118	124.81321 ppb	0.00
Spiked Amount 200.000			Recovery = 62.407%		
82) Terphenyl-D14(S)	12.15	244	1907032	61.50448 ppb	0.00
Spiked Amount 100.000			Recovery = 61.504%		
Target Compounds					Qvalue
2) 1,4-Dioxane	1.80	58	11498	5.79178	97
3) n-Nitrosodimethylamine	2.03	42	191741	73.03789 ppb	92
4) Pyridine	2.05	79	518538	63.81571 ppb	97
7) Phenol	4.73	94	748099	61.16494 ppb	90
8) Aniline	4.75	93	519488	61.41460 ppb	100
9) Bis (2-chloroethyl) ether	4.84	63	297281	61.72361 ppb	93
10) 2-Chlorophenol	4.88	128	615188	62.23602 ppb	97
11) 1,3-DCB	5.05	146	637943	59.27342 ppb	97
12) 1,4-DCB	5.13	146	653294	59.78144 ppb	97
13) Benzyl alcohol	5.26	108	342612	63.49552 ppb	94
14) 1,2-DCB	5.30	146	622802	60.88965 ppb	95
15) 2-Methylphenol	5.38	107	451461	59.30246 ppb	97
16) Bis (2-chloroisopropyl) et	5.42	45	380207	60.77988 ppb	99
17) Acetophenone	5.56	105	792795	65.72008 ppb	97
18) 3&4-Methylphenol	5.56	107	1271853	131.44142 ppb	95
19) n-Nitrosodi-n-propylamine	5.57	70	399356	63.14718 ppb	92
20) Hexachloroethane	5.67	117	234581	60.68586 ppb	87
23) Nitrobenzene	5.75	77	569847	60.34427 ppb	90
24) Isophorone	6.02	82	984676	60.10545 ppb	98
25) 2-Nitrophenol	6.10	139	357079	61.78090 ppb	89
26) 2,4-Dimethylphenol	6.15	122	544911	62.54555 ppb	97
27) Benzoic acid	6.27	105	385661	64.98344 ppb	95
28) Bis (2-chloroethoxy) metha	6.27	93	628272	61.06410 ppb	98
29) 2,4-Dichlorophenol	6.37	162	544386	62.06367 ppb	97
30) 1,2,4-Trichlorobenzene	6.47	180	598326	60.18124 ppb	96
31) 3,4-Dimethylphenol	6.49	107	762165	61.88477 ppb	99
32) Naphthalene	6.55	128	1729992	59.78318 ppb	99
33) 4-Chloroaniline	6.62	127	754065	66.27087 ppb	96
34) 2,6-Dichlorophenol	6.63	162	541705	62.07037 ppb	97
35) Hexachloropropene	6.66	213	447295	60.04818 ppb	99
36) Hexachlorobutadiene	6.70	225	369578	60.76379 ppb	99
37) Caprolactum	7.04	55	181238	62.19962 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y009.D Vial: 9
Acq On : 9 Oct 20 13:48 Operator: MA
Sample : 60ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	559643	63.32936 ppb		95
39)	2-Methylnaphthalene	7.34	142	1177796	60.57965 ppb		99
40)	1-Methylnaphthalene	7.45	142	1234148	61.74353 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	516096	83.27665 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	668403	62.65001 ppb		98
44)	2,4,6-Trichlorophenol	7.67	196	440643	64.95683 ppb		97
45)	2,4,5-Trichlorophenol	7.71	196	470012	65.02106 ppb	#	91
47)	1,1'-Biphenyl	7.89	154	1591238	62.58220 ppb		98
48)	2-Chloronaphthalene	7.91	162	1245206	62.17213 ppb		97
49)	2-Nitroaniline	8.02	65	315928	62.70664 ppb		81
50)	Dimethyl phthalate	8.25	163	1479647	62.22764 ppb		99
51)	2,6-DNT	8.32	165	349882	63.68387 ppb		86
52)	Acenaphthylene	8.38	152	1881817	61.47692 ppb		99
53)	3-Nitroaniline	8.02	138	423264	63.40756 ppb		92
54)	Acenaphthene	8.59	154	1310275	66.41842 ppb		99
55)	2,4-Dinitrophenol	8.62	184	182908	58.39930 ppb		91
56)	4-Nitrophenol	8.70	65	246481	72.37691 ppb		96
57)	Dibenzofuran	8.79	168	1811009	63.65514 ppb		97
58)	2,4-DNT	8.78	165	497859	66.05799 ppb		95
59)	2,3,4,6-Tetrachlorophenol	8.93	232	395509	68.65791 ppb		96
60)	Diethyl phthalate	9.08	149	1460883	63.51663 ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	843816	64.02884 ppb		92
62)	Fluorene	9.19	166	1504737	62.79109 ppb		100
63)	4-Nitroaniline	8.50	138	347408	62.32887 ppb		92
66)	4,6-Dinitro-2-methylphenol	9.26	198	331067	63.75362 ppb		96
67)	Diphenyl amine	9.34	169	2444378	123.21803 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	2444378	123.21803 ppb		99
69)	1,2-Diphenylhydrazine	9.39	77	1175442	56.67260 ppb		91
70)	4-Bromophenyl phenyl ether	9.77	248	490153	60.74659 ppb	#	88
71)	Hexachlorobenzene	9.82	284	519777	60.39622 ppb	#	83
72)	Atrazine	9.97	200	229178	31.17709 ppb		96
73)	Pentachlorophenol	10.05	266	370963	78.87552 ppb		97
74)	Phenanthrene	10.30	178	2171501	60.73335 ppb		100
75)	Anthracene	10.37	178	2316830	62.64649 ppb		99
76)	Carbazol	10.56	167	2027916	60.86531 ppb		98
77)	Di-n-butylphthalate	10.99	149	2587194	64.24978 ppb		99
78)	Fluoranthene	11.70	202	2578280	62.29077 ppb		98
80)	Benzidine	11.85	184	797359	62.63243 ppb	#	98
81)	Pyrene	11.96	202	2633995	61.41393 ppb		99
83)	Butyl benzylphthalate	12.74	149	1122344	61.77318 ppb	#	81
84)	3,3'-Dichlorobenzidine	13.33	252	913703	64.03000 ppb		98
85)	Benz (a) anthracene	13.35	228	2708309	60.92803 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.41	149	1563586	62.67403 ppb	#	94
87)	Chrysene	13.40	228	2513650	61.59902 ppb		99
88)	Di-n-octylphthalate	14.15	149	2692154	63.51796 ppb		96
90)	Benzo (b) fluoranthene	14.58	252	2761032	63.16662 ppb		99
91)	Benzo (k) fluoranthene	14.62	252	2236355	61.03467 ppb		99
92)	Benzo (a) pyrene	15.00	252	2399690	62.67216 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.76	276	2670757	69.38547 ppb		99
94)	Dibenz (a,h) anthracene	16.80	278	2342060	60.46373 ppb		97
95)	Benzo (g,h,i) perylene	17.26	276	2296516	60.89490 ppb		100

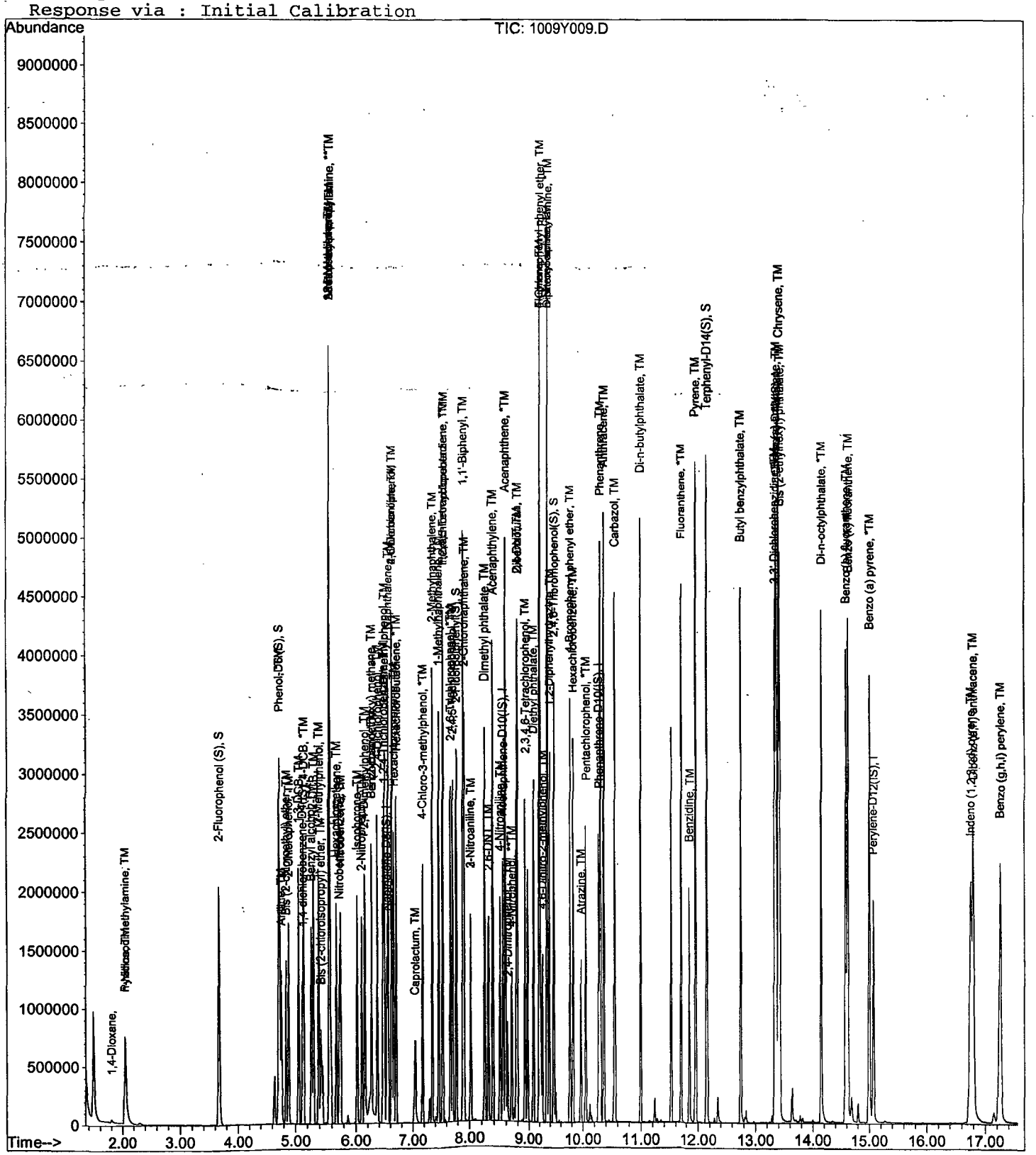
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y009.D Vial: 9
Acq On : 9 Oct 20 13:48 Operator: MA
Sample : 60ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y010.D Vial: 10
Acq On : 9 Oct 20 14:13 Operator: MA
Sample : 80ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:31 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	199908	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	822746	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	511195	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	992166	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.37	240	1029591	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.07	264	1003036	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.66	112	1307580	176.07661 ppb		0.00
Spiked Amount 200.000			Recovery =	88.039%		
6) Phenol-D6 (S)	4.72	99	1668447	177.38141 ppb		0.01
Spiked Amount 200.000			Recovery =	88.691%		
22) Nitrobenzene-D5(S)	5.73	82	724439	83.73375 ppb		0.00
Spiked Amount 100.000			Recovery =	83.734%		
46) 2-Fluorobiphenyl(S)	7.78	172	1772965	83.24089 ppb		0.00
Spiked Amount 100.000			Recovery =	83.241%		
64) 2,4,6-Tribromophenol(S)	9.48	330	664642	184.97376 ppb		0.00
Spiked Amount 200.000			Recovery =	92.487%		
82) Terphenyl-D14(S)	12.16	244	2566414	87.55780 ppb		0.00
Spiked Amount 100.000			Recovery =	87.558%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.80	58	16101	8.78643		93
3) n-Nitrosodimethylamine	2.03	42	245706	101.39560 ppb		98
4) Pyridine	2.05	79	674374	89.91207 ppb		97
7) Phenol	4.73	94	946942	83.87586 ppb		94
8) Aniline	4.76	93	595648	76.28794 ppb		100
9) Bis (2-chloroethyl) ether	4.83	63	381747	85.86772 ppb		97
10) 2-Chlorophenol	4.88	128	777140	85.17327 ppb		94
11) 1,3-DCB	5.06	146	823911	82.93322 ppb		99
12) 1,4-DCB	5.14	146	836229	82.89972 ppb		99
13) Benzyl alcohol	5.27	108	435239	87.38531 ppb		97
14) 1,2-DCB	5.30	146	779749	82.58828 ppb		98
15) 2-Methylphenol	5.39	107	577025	82.11400 ppb		97
16) Bis (2-chloroisopropyl) et	5.43	45	483628	83.75703 ppb		99
17) Acetophenone	5.57	105	1004527	90.21296 ppb		97
18) 3&4-Methylphenol	5.57	107	1626995	182.15944 ppb		97
19) n-Nitrosodi-n-propylamine	5.60	70	504518	86.42523 ppb		97
20) Hexachloroethane	5.67	117	301343	84.45510 ppb		76
23) Nitrobenzene	5.75	77	744324	84.19022 ppb		97
24) Isophorone	6.02	82	1271610	82.90795 ppb		96
25) 2-Nitrophenol	6.11	139	461361	85.26142 ppb		98
26) 2,4-Dimethylphenol	6.15	122	688220	84.37619 ppb		97
27) Benzoic acid	6.28	105	470524	83.22559 ppb		92
28) Bis (2-chloroethoxy) metha	6.26	93	802093	83.26927 ppb		100
29) 2,4-Dichlorophenol	6.37	162	698975	85.11654 ppb		98
30) 1,2,4-Trichlorobenzene	6.47	180	757691	81.40239 ppb		97
31) 3,4-Dimethylphenol	6.49	107	976963	84.72951 ppb		99
32) Naphthalene	6.56	128	2249726	83.03981 ppb		100
33) 4-Chloroaniline	6.63	127	917641	86.14072 ppb	#	92
34) 2,6-Dichlorophenol	6.63	162	689918	84.43855 ppb		99
35) Hexachloropropene	6.65	213	576739	82.70026 ppb		98
36) Hexachlorobutadiene	6.70	225	468931	82.35111 ppb		99
37) Caprolactum	7.05	55	228208	83.65485 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y010.D Vial: 10
Acq On : 9 Oct 20 14:13 Operator: MA
Sample : 80ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:31 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	714169	86.32107	ppb		93
39) 2-Methylnaphthalene	7.35	142	1555911	85.47975	ppb		100
40) 1-Methylnaphthalene	7.46	142	1569961	83.89477	ppb		100
42) Hexachlorocyclopentadiene	7.54	237	481920	81.37334	ppb		98
43) 1,2,4,5-Tetrachlorobenzene	7.54	216	851260	83.46201	ppb		99
44) 2,4,6-Trichlorophenol	7.67	196	579509	89.35977	ppb		96
45) 2,4,5-Trichlorophenol	7.71	196	595401	86.15859	ppb		96
47) 1,1'-Biphenyl	7.89	154	2005696	82.51344	ppb		99
48) 2-Chloronaphthalene	7.91	162	1580519	82.54641	ppb		98
49) 2-Nitroaniline	8.03	65	410286	85.18361	ppb		93
50) Dimethyl phthalate	8.26	163	1938212	85.26492	ppb		98
51) 2,6-DNT	8.32	165	439964	83.76622	ppb		92
52) Acenaphthylene	8.39	152	2480932	84.78001	ppb		100
53) 3-Nitroaniline	8.03	138	542486	85.00846	ppb		97
54) Acenaphthene	8.59	154	1597192	84.68902	ppb		99
55) 2,4-Dinitrophenol	8.62	184	244773	76.18312	ppb		92
56) 4-Nitrophenol	8.70	65	312094	95.86188	ppb		90
57) Dibenzofuran	8.79	168	2310205	84.93903	ppb		99
58) 2,4-DNT	8.78	165	635264	88.16924	ppb		90
59) 2,3,4,6-Tetrachlorophenol	8.93	232	513386	93.22279	ppb		99
60) Diethyl phthalate	9.09	149	1863223	84.73850	ppb		98
61) 4-Chlorophenyl phenyl ethe	9.20	204	1101504	87.42947	ppb		97
62) Fluorene	9.19	166	1957666	85.45154	ppb		99
63) 4-Nitroaniline	8.51	138	444753	83.46650	ppb	#	73
66) 4,6-Dinitro-2-methylphenol	9.26	198	429156	87.74880	ppb	#	87
67) Diphenyl amine	9.35	169	3170279	169.68381	ppb		100
68) n-Nitrosodiphenylamine	9.35	169	3170279	169.68381	ppb		100
69) 1,2-Diphenylhydrazine	9.38	77	1513036	77.45656	ppb		100
70) 4-Bromophenyl phenyl ether	9.77	248	638815	84.06251	ppb		98
71) Hexachlorobenzene	9.83	284	684444	84.44378	ppb		99
72) Atrazine	9.97	200	286672	41.40806	ppb		99
73) Pentachlorophenol	10.05	266	481637	108.73478	ppb		99
74) Phenanthrene	10.31	178	2802193	83.21513	ppb		100
75) Anthracene	10.37	178	2915092	83.69353	ppb		100
76) Carbazol	10.56	167	2679776	85.39951	ppb		96
77) Di-n-butylphthalate	10.99	149	3209640	84.63227	ppb		100
78) Fluoranthene	11.69	202	3251828	83.41770	ppb		99
80) Benzidine	11.85	184	891315	72.96077	ppb	#	96
81) Pyrene	11.95	202	3422797	84.42138	ppb		100
83) Butyl benzylphthalate	12.74	149	1466865	85.40504	ppb		99
84) 3,3'-Dichlorobenzidine	13.34	252	1151082	85.33046	ppb	#	95
85) Benz (a) anthracene	13.36	228	3475329	82.70547	ppb		100
86) Bis (2-ethylhexyl) phthala	13.42	149	2058241	87.27331	ppb		98
87) Chrysene	13.40	228	3362601	87.16933	ppb		100
88) Di-n-octylphthalate	14.15	149	3486511	87.01760	ppb		99
90) Benzo (b) fluoranthene	14.58	252	3298763	79.00740	ppb		98
91) Benzo (k) fluoranthene	14.62	252	3148776	89.96594	ppb		98
92) Benzo (a) pyrene	15.01	252	3081952	84.26473	ppb		98
93) Indeno (1,2,3-cd) pyrene	16.76	276	3443782	93.66348	ppb		100
94) Dibenz (a,h) anthracene	16.81	278	3035076	82.02892	ppb		96
95) Benzo (g,h,i) perylene	17.27	276	2946677	81.79833	ppb		97

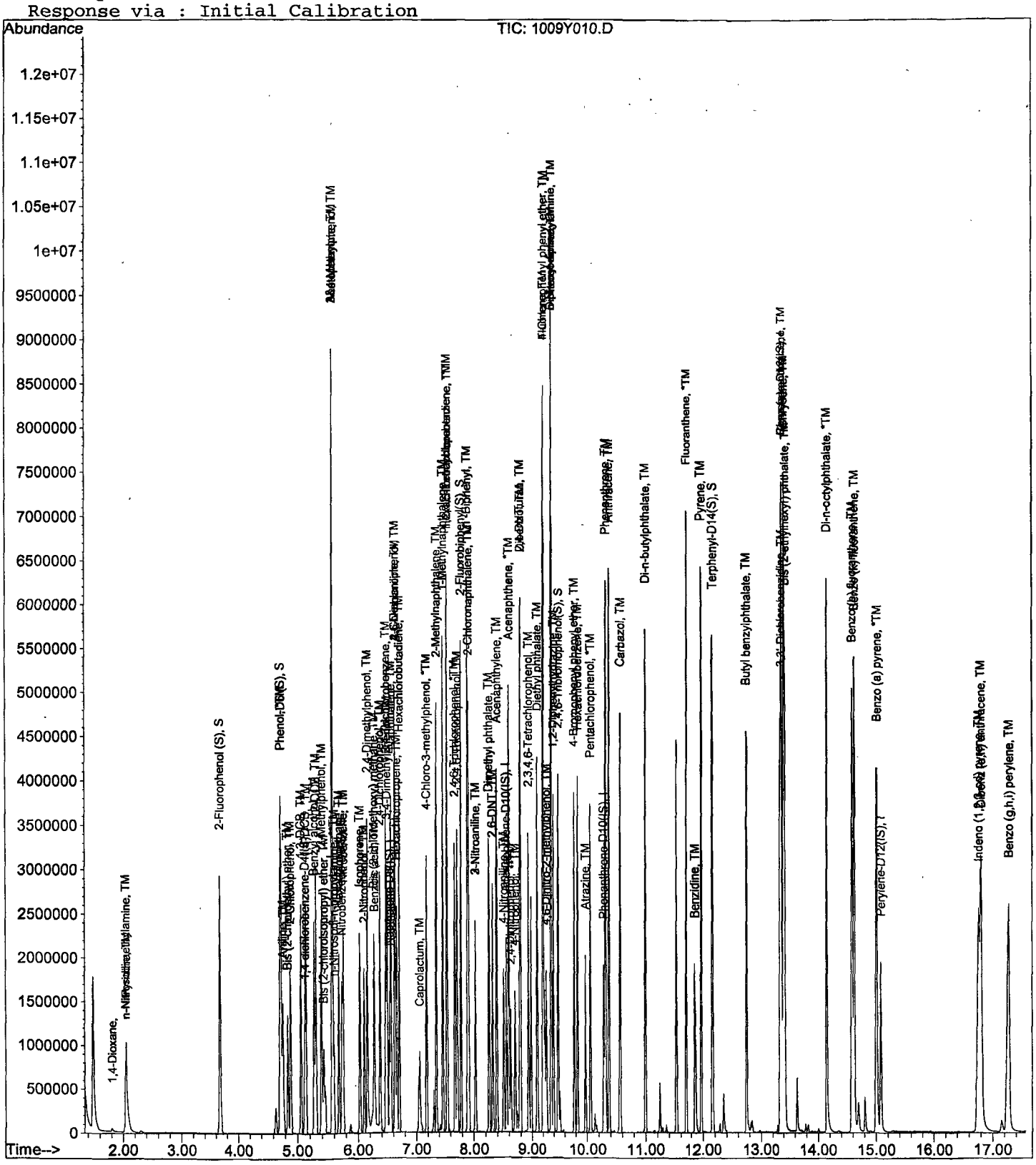
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y010.D Vial: 10
Acq On : 9 Oct 20 14:13 Operator: MA
Sample : 80ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:31 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y011.D Vial: 11
Acq On : 9 Oct 20 14:38 Operator: MA
Sample : 100ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:48 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:48:37 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	234180	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	972023	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.56	164	590025	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1196320	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.38	240	1245991	40.00000 ppb	0.02
89) Perylene-D12(IS)	15.08	264	1198755	40.00000 ppb	0.02
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1936097	213.31149 ppb	0.01
Spiked Amount 200.000			Recovery	= 106.656%	
6) Phenol-D6 (S)	4.73	99	2450115	214.12626 ppb	0.02
Spiked Amount 200.000			Recovery	= 107.063%	
22) Nitrobenzene-D5(S)	5.73	82	1058683	104.12375 ppb	0.01
Spiked Amount 100.000			Recovery	= 104.124%	
46) 2-Fluorobiphenyl(S)	7.78	172	2603920	104.70949 ppb	0.00
Spiked Amount 100.000			Recovery	= 104.709%	
64) 2,4,6-Tribromophenol(S)	9.49	330	1038078	243.20617 ppb	0.01
Spiked Amount 200.000			Recovery	= 121.603%	
82) Terphenyl-D14(S)	12.16	244	3840871	106.94020 ppb	0.00
Spiked Amount 100.000			Recovery	= 106.940%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	18198	8.66444	96
3) n-Nitrosodimethylamine	2.03	42	339228	104.48193 ppb	99
4) Pyridine	2.05	79	921056	101.43260 ppb	98
7) Phenol	4.74	94	1379601	105.26624 ppb	88
8) Aniline	4.76	93	764224	75.33429 ppb	100
9) Bis (2-chloroethyl) ether	4.84	63	542689	102.47863 ppb	97
10) 2-Chlorophenol	4.89	128	1124033	103.02814 ppb	97
11) 1,3-DCB	5.06	146	1160721	99.54557 ppb	97
12) 1,4-DCB	5.14	146	1193185	100.25418 ppb	98
13) Benzyl alcohol	5.28	108	637158	104.43694 ppb	97
14) 1,2-DCB	5.30	146	1125378	100.61606 ppb	99
15) 2-Methylphenol	5.39	107	839012	103.90643 ppb	97
16) Bis (2-chloroisopropyl) et	5.43	45	696813	100.35717 ppb	100
17) Acetophenone	5.57	105	1482877	105.28115 ppb	89
18) 3&4-Methylphenol	5.58	107	2373694	211.68938 ppb	96
19) n-Nitrosodi-n-propylamine	5.60	70	713820	100.61361 ppb	96
20) Hexachloroethane	5.68	117	425851	101.53827 ppb	93
23) Nitrobenzene	5.75	77	1059867	101.22529 ppb	90
24) Isophorone	6.04	82	1847460	103.03444 ppb	98
25) 2-Nitrophenol	6.11	139	657732	104.31740 ppb	89
26) 2,4-Dimethylphenol	6.16	122	1017298	103.28111 ppb	98
27) Benzoic acid	6.32	105	647906	90.40887 ppb	95
28) Bis (2-chloroethoxy) metha	6.27	93	1161742	102.05205 ppb	98
29) 2,4-Dichlorophenol	6.38	162	1014783	103.55586 ppb	98
30) 1,2,4-Trichlorobenzene	6.47	180	1122465	102.78304 ppb	99
31) 3,4-Dimethylphenol	6.50	107	1392083	101.16261 ppb	99
32) Naphthalene	6.56	128	3258921	102.24622 ppb	99
33) 4-Chloroaniline	6.63	127	1265642	94.38186 ppb	98
34) 2,6-Dichlorophenol	6.64	162	1011491	104.73826 ppb	97
35) Hexachloropropene	6.66	213	854165	107.47308 ppb	99
36) Hexachlorobutadiene	6.70	225	686312	102.32413 ppb	99
37) Caprolactum	7.08	55	334644	104.86032 ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y011.D Vial: 11
Acq On : 9 Oct 20 14:38 Operator: MA
Sample : 100ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:48 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:48:37 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	1042700	104.11119	ppb	94
39)	2-Methylnaphthalene	7.35	142	2223045	103.34364	ppb	100
40)	1-Methylnaphthalene	7.46	142	2296876	103.10412	ppb	99
42)	Hexachlorocyclopentadiene	7.54	237	974336	110.88585	ppb	99
43)	1,2,4,5-Tetrachlorobenzene	7.55	216	1284262	107.88153	ppb	98
44)	2,4,6-Trichlorophenol	7.68	196	841149	106.44387	ppb	98
45)	2,4,5-Trichlorophenol	7.72	196	887080	107.15160	ppb	96
47)	1,1'-Biphenyl	7.90	154	3032625	106.85905	ppb	99
48)	2-Chloronaphthalene	7.92	162	2355156	104.92684	ppb	98
49)	2-Nitroaniline	8.03	65	608089	108.58922	ppb	81
50)	Dimethyl phthalate	8.26	163	2796128	104.11497	ppb	99
51)	2,6-DNT	8.32	165	645515	108.19239	ppb	98
52)	Acenaphthylene	8.39	152	3616990	105.04111	ppb	100
53)	3-Nitroaniline	8.04	138	821534	111.08507	ppb	96
54)	Acenaphthene	8.59	154	2335278	102.06025	ppb	99
55)	2,4-Dinitrophenol	8.63	184	389765	105.34252	ppb	95
56)	4-Nitrophenol	8.71	65	474507	119.01514	ppb	97
57)	Dibenzofuran	8.80	168	3493296	107.17658	ppb	96
58)	2,4-DNT	8.79	165	930649	109.63231	ppb	89
59)	2,3,4,6-Tetrachlorophenol	8.94	232	752679	108.86610	ppb	94
60)	Diethyl phthalate	9.10	149	2737766	104.37047	ppb	100
61)	4-Chlorophenyl phenyl ethe	9.21	204	1664349	110.03777	ppb	87
62)	Fluorene	9.20	166	2940280	109.05817	ppb	100
63)	4-Nitroaniline	8.51	138	625089	100.98447	ppb	96
66)	4,6-Dinitro-2-methylphenol	9.27	198	649905	128.95708	ppb	99
67)	Diphenyl amine	9.36	169	4748951	209.69183	ppb	100
68)	n-Nitrosodiphenylamine	9.36	169	4748951	209.69183	ppb	100
69)	1,2-Diphenylhydrazine	9.39	77	2225656	101.51080	ppb	90
70)	4-Bromophenyl phenyl ether	9.77	248	951261	106.18835	ppb #	90
71)	Hexachlorobenzene	9.83	284	1013970	105.31842	ppb #	85
72)	Atrazine	9.98	200	428874	51.53333	ppb	98
73)	Pentachlorophenol	10.06	266	744723	118.13417	ppb	98
74)	Phenanthrene	10.31	178	4159271	102.39611	ppb	99
75)	Anthracene	10.38	178	4367316	103.45209	ppb	99
76)	Carbazol	10.56	167	3878089	102.12814	ppb	99
77)	Di-n-butylphthalate	11.00	149	4933775	107.36559	ppb	99
78)	Fluoranthene	11.70	202	5012062	106.71067	ppb	98
80)	Benzidine	11.86	184	1349972	97.67324	ppb #	98
81)	Pyrene	11.96	202	5009915	100.79799	ppb	100
83)	Butyl benzylphthalate	12.74	149	2184357	106.66433	ppb	88
84)	3,3'-Dichlorobenzidine	13.34	252	1673720	101.70510	ppb	98
85)	Benz (a) anthracene	13.36	228	5304645	105.99160	ppb	100
86)	Bis (2-ethylhexyl) phthala	13.42	149	3048518	106.15141	ppb	99
87)	Chrysene	13.40	228	5009685	104.01725	ppb	99
88)	Di-n-octylphthalate	14.15	149	5241077	111.45361	ppb #	93
90)	Benzo (b) fluoranthene	14.59	252	5155192	110.83607	ppb	99
91)	Benzo (k) fluoranthene	14.63	252	4542937	100.83056	ppb	98
92)	Benzo (a) pyrene	15.02	252	4685422	110.17104	ppb	98
93)	Indeno (1,2,3-cd) pyrene	16.77	276	5149976	107.25377	ppb	97
94)	Dibenz (a,h) anthracene	16.83	278	4621429	110.48379	ppb	95
95)	Benzo (g,h,i) perylene	17.29	276	4391087	105.26855	ppb	98

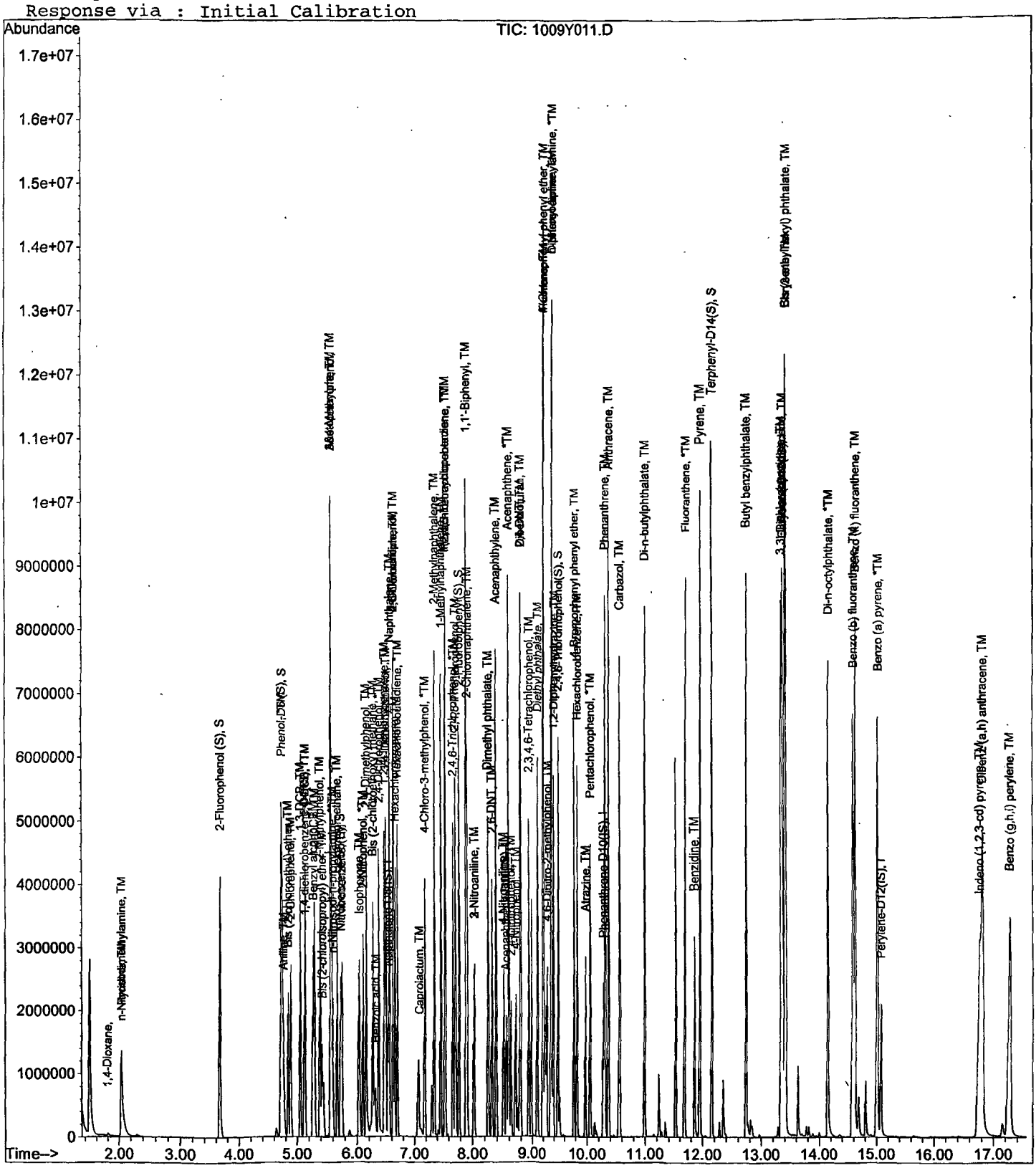
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y011.D Vial: 11
Acq On : 9 Oct 20 14:38 Operator: MA
Sample : 100ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:48 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
1		1,4-Dioxane	0.3588	0.3840	7.0		
2	TM	n-Nitrosodimethylamine	0.5546	0.6000	8.2	TM	
3	TM	Pyridine	1.551	1.511	2.6	TM	
4	*TM	Phenol	2.239	2.219	0.88	*TM	
5	TM	Aniline	1.755	1.852	5.5	TM	
6	TM	Bis (2-chloroethyl) ether	0.9045	0.8733	3.4	TM	
7	TM	2-Chlorophenol	1.864	1.873	0.51	TM	
8	TM	1,3-DCB	1.992	2.059	3.4	TM	
9	*TM	1,4-DCB	2.033	2.070	1.8	*TM	
10	TM	Benzyl alcohol	1.042	1.029	1.2	TM	
11	TM	1,2-DCB	1.910	1.941	1.6	TM	
12	TM	2-Methylphenol	1.379	1.341	2.8	TM	
13	TM	Bis (2-chloroisopropyl) ether	1.186	1.133	4.5	TM	
14	TM	Acetophenone	2.406	2.331	3.1	TM	
15	TM	3&4-Methylphenol	1.915	1.919	0.18	TM	
16	**TM	n-Nitrosodi-n-propylamine	1.212	1.184	2.3	**TM	
17	TM	Hexachloroethane	0.7164	0.7439	3.8	TM	
18	TM	Nitrobenzene	0.4309	0.4428	2.8	TM	
19	TM	Isophorone	0.7379	0.7698	4.3	TM	
20	*TM	2-Nitrophenol	0.2595	0.2685	3.5	*TM	
21	TM	2,4-Dimethylphenol	0.4053	0.4011	1.0	TM	
22	TML	Benzoic acid	0.2281	0.3005	32	TML	9.1
23	TM	Bis (2-chloroethoxy) methane	0.4685	0.4517	3.6	TM	
24	*TM	2,4-Dichlorophenol	0.4033	0.4044	0.27	*TM	
25	TM	1,2,4-Trichlorobenzene	0.4494	0.4623	2.9	TM	
26	TM	3,4-Dimethylphenol	0.5663	0.5509	2.7	TM	
27	TM	Naphthalene	1.312	1.311	0.02	TM	
28	TM	4-Chloroaniline	0.5518	0.5476	0.77	TM	
29	TM	2,6-Dichlorophenol	0.3974	0.3950	0.60	TM	
30	TM	Hexachloropropene	0.3271	0.3385	3.5	TM	
31	*TM	Hexachlorobutadiene	0.2760	0.2880	4.3	*TM	
32	TM	Caprolactum	0.1313	0.1297	1.2	TM	
33	*TM	4-Chloro-3-methylphenol	0.4121	0.4175	1.3	*TM	
34	TM	2-Methylnaphthalene	0.8852	0.9660	9.1	TM	
35	TM	1-Methylnaphthalene	0.9167	0.9017	1.6	TM	
36	**TM	Hexachlorocyclopentadiene	0.5574	0.5527	0.84	**TM	
37	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.7867	2.5	TM	
38	*TM	2,4,6-Trichlorophenol	0.5357	0.5317	0.76	*TM	
39	TM	2,4,5-Trichlorophenol	0.5612	0.5730	2.1	TM	
40	TM	1,1'-Biphenyl	1.924	1.880	2.3	TM	
		Average			3.4		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	2-Chloronaphthalene	1.522	1.530	0.52	TM	
42	TM	2-Nitroaniline	0.3796	0.3919	3.2	TM	
43	TM	Dimethyl phthalate	1.821	1.754	3.7	TM	
44	TM	2,6-DNT	0.4045	0.4267	5.5	TM	
45	TM	Acenaphthylene	2.334	2.281	2.3	TM	
46	TM	3-Nitroaniline	0.5014	0.5212	4.0	TM	
47	*TM	Acenaphthene	1.551	1.552	0.05	*TM	
48	**TML	2,4-Dinitrophenol	0.1987	0.2081	4.7	**TML	0.27
49	**TM	4-Nitrophenol	0.2824	0.2943	4.2	**TM	
50	TM	Dibenzofuran	2.210	2.160	2.3	TM	
51	TM	2,4-DNT	0.5755	0.6014	4.5	TM	
52	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4860	3.7	TM	
53	TM	Diethyl phthalate	1.778	1.698	4.5	TM	
54	TM	4-Chlorophenyl phenyl ether	1.025	0.9806	4.4	TM	
55	TM	Fluorene	1.828	1.777	2.8	TM	
56	TM	4-Nitroaniline	0.4196	0.4194	0.06	TM	
57	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2041	4.9	TM	
58	TM	Diphenyl amine	0.7572	0.7578	0.07	TM	
59	*TM	n-Nitrosodiphenylamine	0.7572	0.7578	0.07	*TM	
60	TM	1,2-Diphenylhydrazine	0.7331	0.7678	4.7	TM	
61	TM	4-Bromophenyl phenyl ether	0.2995	0.2940	1.8	TM	
62	TM	Hexachlorobenzene	0.3219	0.3228	0.27	TM	
63	TM	Atrazine	0.2783	0.2851	2.5	TM	
64	*TM	Pentachlorophenol	0.2190	0.2289	4.5	*TM	
65	TM	Phenanthrene	1.358	1.342	1.2	TM	
66	TM	Anthracene	1.412	1.409	0.20	TM	
67	TM	Carbazol	1.270	1.264	0.43	TM	
68	TM	Di-n-butylphthalate	1.536	1.511	1.7	TM	
69	*TM	Fluoranthene	1.570	1.560	0.67	*TM	
70	TM	Benzidine	0.4483	0.5235	17	TM	
71	TM	Pyrene	1.596	1.586	0.61	TM	
72	TM	Butyl benzylphthalate	0.6574	0.6699	1.9	TM	
73	TM	3,3'-Dichlorobenzidine	0.5283	0.5702	7.9	TM	
74	TM	Benz (a) anthracene	1.607	1.576	1.9	TM	
75	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9398	1.9	TM	
76	TM	Chrysene	1.546	1.515	2.0	TM	
77	*TM	Di-n-octylphthalate	1.510	1.579	4.6	*TM	
78	TM	Benzo (b) fluoranthene	1.552	1.621	4.4	TM	
79	TM	Benzo (k) fluoranthene	1.503	1.517	0.88	TM	
80	*TM	Benzo (a) pyrene	1.419	1.463	3.1	*TM	
		Average			3.0		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.602	1.568	2.1	TM	
82	TM	Dibenz (a,h) anthracene	1.396	1.434	2.7	TM	
83	TM	Benzo (g,h,i) perylene	1.392	1.406	1.00	TM	
84							
85							
86							
87							
88							
89							
90							
91							
92							
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115							
116							
117							
118							
119							
120							
		Average			1.9		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216183	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	873280	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	536403	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	1035458	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.37	240	1061772	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.07	264	1035051	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0	0.00000 ppb		
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0	0.00000 ppb		
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5(S)	5.68	82	44035	4.82064 ppb		-0.05
Spiked Amount 100.000			Recovery =	4.821%		
46) 2-Fluorobiphenyl(S)	7.71	172	695	0.03074 ppb		-0.06
Spiked Amount 100.000			Recovery =	0.031%		
64) 2,4,6-Tribromophenol(S)	9.47	330	157	0.04046 ppb		0.00
Spiked Amount 200.000			Recovery =	0.020%		
82) Terphenyl-D14(S)	0.00	244	0	0.00000 ppb		
Spiked Amount 100.000			Recovery =	0.000%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	10377	5.35201		83
3) n-Nitrosodimethylamine	2.03	42	162139	54.09601 ppb		99
4) Pyridine	2.05	79	408244	48.70119 ppb		100
7) Phenol	4.72	94	599636	49.56231 ppb		94
8) Aniline	4.76	93	500352	52.75609 ppb		97
9) Bis (2-chloroethyl) ether	4.83	63	236003	48.27565 ppb		97
10) 2-Chlorophenol	4.88	128	506162	50.25677 ppb		95
11) 1,3-DCB	5.06	146	556468	51.69667 ppb		98
12) 1,4-DCB	5.14	146	559251	50.90140 ppb		100
13) Benzyl alcohol	5.27	108	278105	49.37920 ppb		98
14) 1,2-DCB	5.30	146	524514	50.79889 ppb		99
15) 2-Methylphenol	5.39	107	362346	48.61004 ppb		99
16) Bis (2-chloroisopropyl) et	5.43	45	306191	47.76973 ppb		97
17) Acetophenone	5.57	105	629817	48.43822 ppb		97
18) 3&4-Methylphenol	5.57	107	1037012	100.18123 ppb		97
19) n-Nitrosodi-n-propylamine	5.57	70	320028	48.86346 ppb		91
20) Hexachloroethane	5.68	117	201028	51.92266 ppb		95
23) Nitrobenzene	5.74	77	483369	51.38537 ppb		89
24) Isophorone	6.02	82	840280	52.16202 ppb		98
25) 2-Nitrophenol	6.10	139	293131	51.74788 ppb	#	81
26) 2,4-Dimethylphenol	6.15	122	437860	49.48015 ppb		98
27) Benzoic acid	6.24	105	327995m	54.56581 ppb		97
28) Bis (2-chloroethoxy) metha	6.26	93	493099	48.21356 ppb		100
29) 2,4-Dichlorophenol	6.37	162	441395	50.13626 ppb		99
30) 1,2,4-Trichlorobenzene	6.47	180	504605	51.43079 ppb		98
31) 3,4-Dimethylphenol	6.49	107	601322	48.63904 ppb		98
32) Naphthalene	6.56	128	1431422	49.98782 ppb		100
33) 4-Chloroaniline	6.62	127	597741	49.61508 ppb		100
34) 2,6-Dichlorophenol	6.63	162	431213	49.70021 ppb		99
35) Hexachloropropene	6.66	213	369517	51.75060 ppb		98
36) Hexachlorobutadiene	6.70	225	314356	52.16765 ppb		99
37) Caprolactum	7.03	55	141607	49.38964 ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	455719	50.64752 ppb		99
39)	2-Methylnaphthalene	7.35	142	1054475	54.56257 ppb		100
40)	1-Methylnaphthalene	7.46	142	984333	49.18170 ppb		100
42)	Hexachlorocyclopentadiene	7.54	237	370560	49.57797 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	527503	48.74136 ppb		100
44)	2,4,6-Trichlorophenol	7.66	196	356488	49.62173 ppb		96
45)	2,4,5-Trichlorophenol	7.71	196	384178	51.04434 ppb		99
47)	1,1'-Biphenyl	7.89	154	1260850	48.86920 ppb		99
48)	2-Chloronaphthalene	7.91	162	1025569	50.25867 ppb		99
49)	2-Nitroaniline	8.02	65	262797	51.62014 ppb		76
50)	Dimethyl phthalate	8.25	163	1175916	48.16279 ppb		99
51)	2,6-DNT	8.31	165	286088	52.74354 ppb		98
52)	Acenaphthylene	8.38	152	1529580	48.86112 ppb		99
53)	3-Nitroaniline	8.03	138	349489	51.98079 ppb		95
54)	Acenaphthene	8.58	154	1040624	50.02546 ppb		99
55)	2,4-Dinitrophenol	8.62	184	139500	50.13590 ppb		98
56)	4-Nitrophenol	8.70	65	197361	52.10820 ppb		93
57)	Dibenzofuran	8.79	168	1448178	48.87263 ppb		99
58)	2,4-DNT	8.78	165	403252	52.25266 ppb		98
59)	2,3,4,6-Tetrachlorophenol	8.93	232	325882	51.84686 ppb		99
60)	Diethyl phthalate	9.08	149	1138241	47.73036 ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	657483	47.81467 ppb		97
62)	Fluorene	9.19	166	1191367	48.60649 ppb		99
63)	4-Nitroaniline	8.50	138	281204	49.97047 ppb		95
66)	4,6-Dinitro-2-methylphenol	9.25	198	264110	52.42572 ppb		91
67)	Diphenyl amine	9.34	169	1961662	100.07437 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1961662	100.07437 ppb		99
69)	1,2-Diphenylhydrazine	9.38	77	993810	52.36878 ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	380543	49.07901 ppb	#	81
71)	Hexachlorobenzene	9.83	284	417763	50.13304 ppb		95
72)	Atrazine	9.97	200	184523	25.61674 ppb		98
73)	Pentachlorophenol	10.05	266	296210	52.24180 ppb		99
74)	Phenanthrene	10.31	178	1736593	49.39457 ppb		99
75)	Anthracene	10.37	178	1823356	49.90120 ppb		100
76)	Carbazol	10.55	167	1636229	49.78363 ppb		100
77)	Di-n-butylphthalate	10.99	149	1955769	49.17204 ppb		100
78)	Fluoranthene	11.69	202	2019048	49.66528 ppb		99
80)	Benzidine	11.85	184	694739	58.38120 ppb	#	96
81)	Pyrene	11.95	202	2104725	49.69360 ppb		100
83)	Butyl benzylphthalate	12.73	149	889142	50.95072 ppb	#	77
84)	3,3'-Dichlorobenzidine	13.33	252	756835	53.96905 ppb		100
85)	Benz (a) anthracene	13.36	228	2092220	49.05758 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.42	149	1247309	50.96766 ppb		99
87)	Chrysene	13.39	228	2011174	49.00363 ppb		99
88)	Di-n-octylphthalate	14.14	149	2096116	52.30853 ppb		99
90)	Benzo (b) fluoranthene	14.58	252	2096677	52.20793 ppb		99
91)	Benzo (k) fluoranthene	14.62	252	1962159	50.43806 ppb		100
92)	Benzo (a) pyrene	15.00	252	1893209	51.55680 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.75	276	2028571	48.92899 ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1855439	51.37332 ppb		99
95)	Benzo (g,h,i) perylene	17.25	276	1818788	50.49837 ppb		99

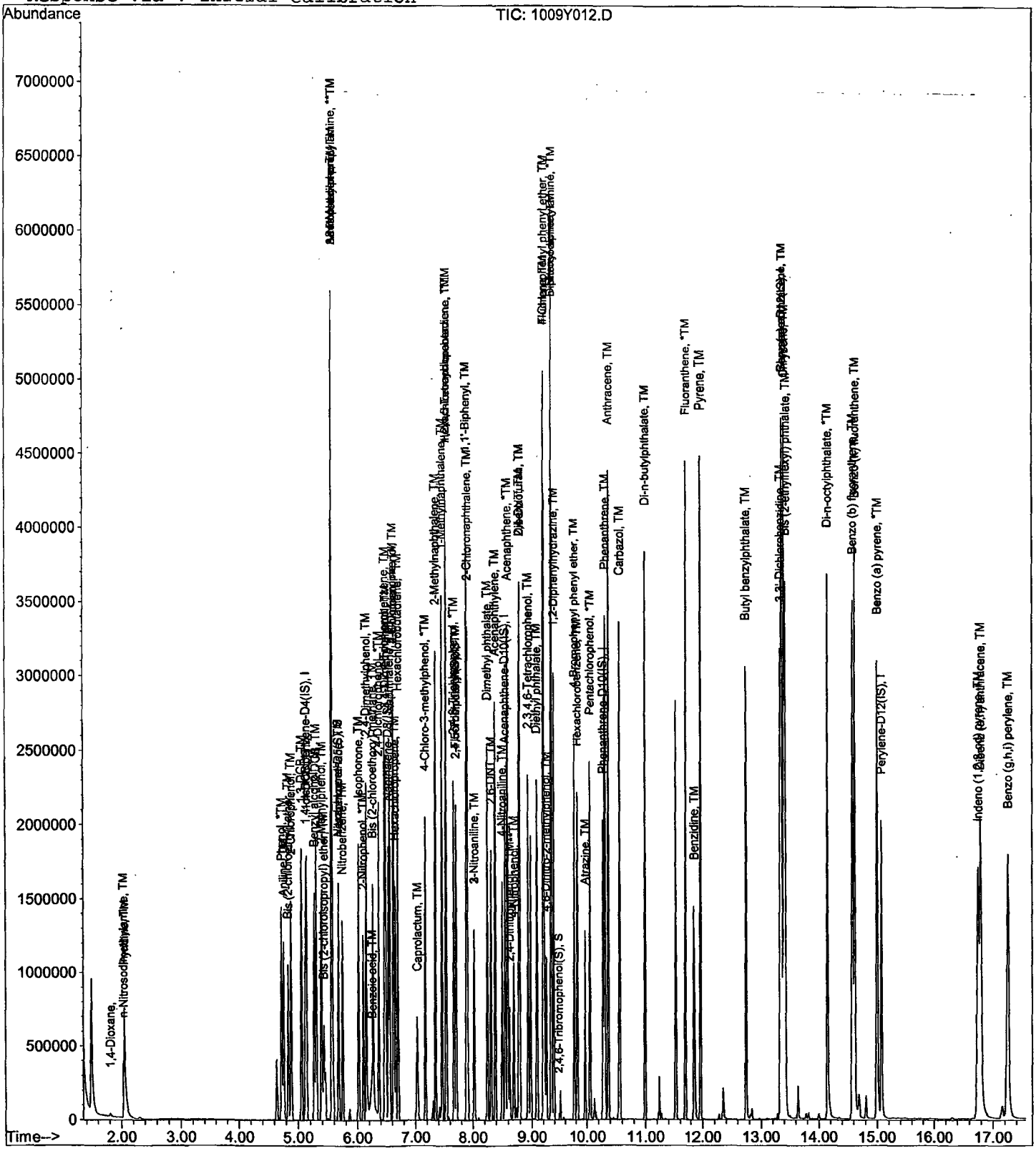
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

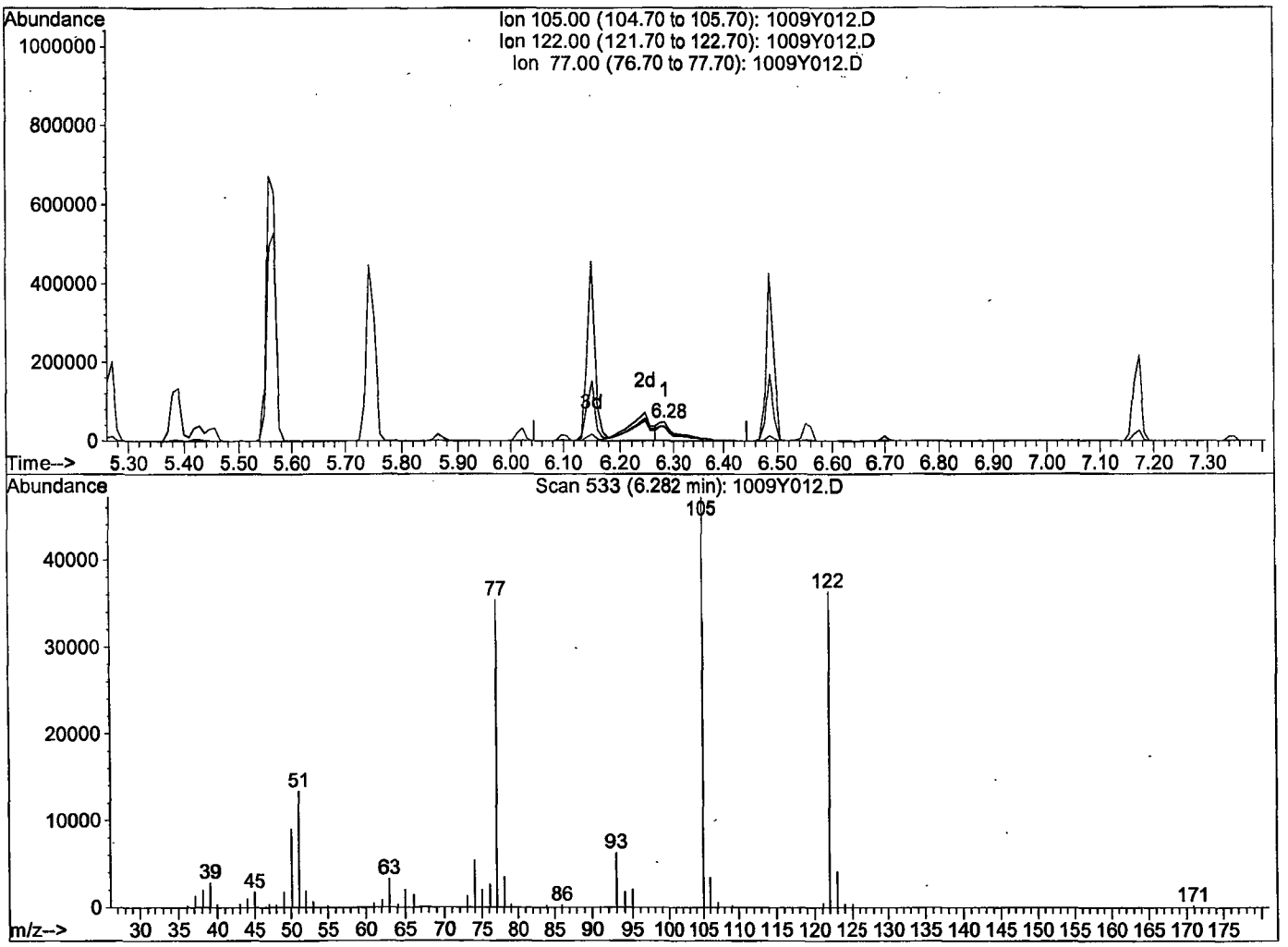
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 15:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y012.D

(27) Benzoic acid (TM)

6.28min 25.1987ppb

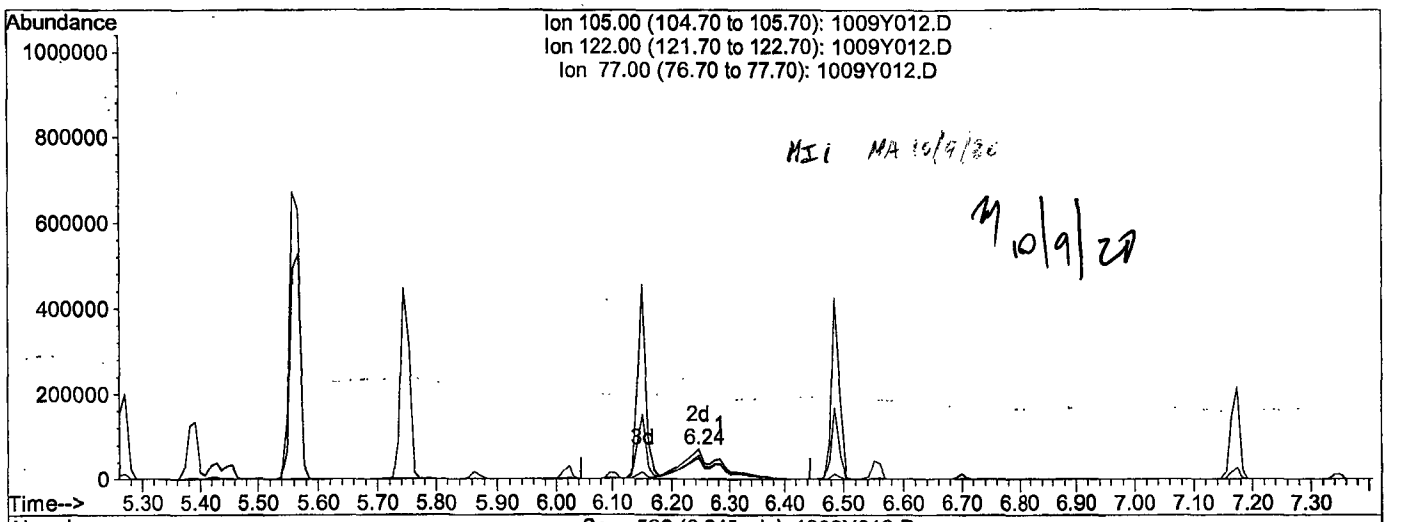
response 119810

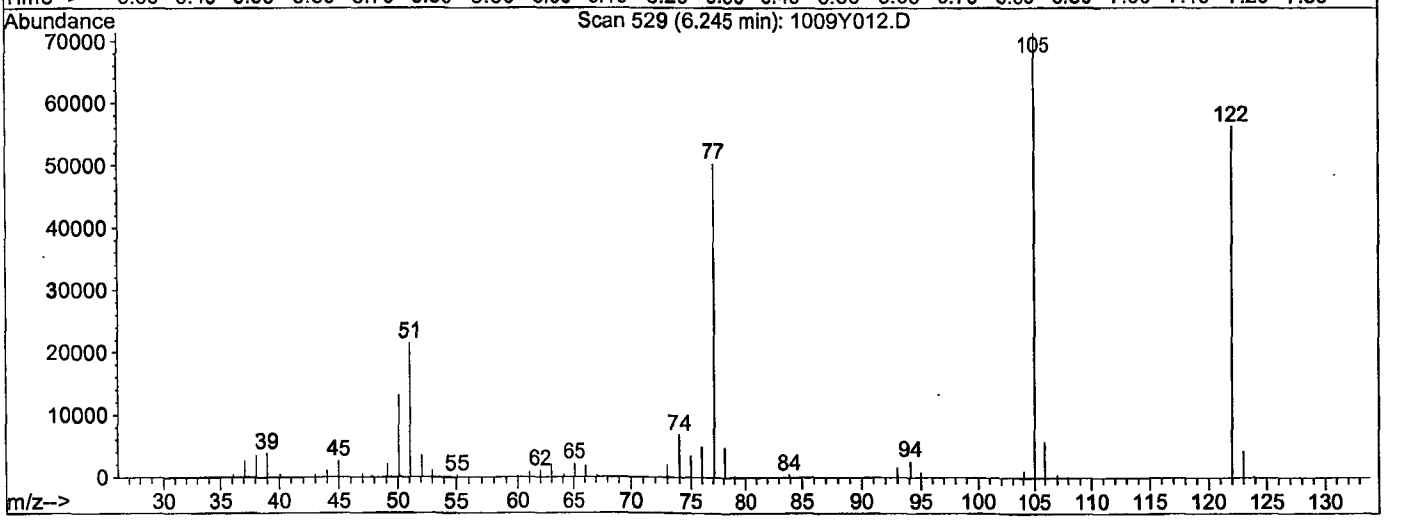
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	76.27
77.00	70.50	74.55
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 15:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y012.D

(27) Benzoic acid (TM)

6.24min 54.5658ppb m

response 327995

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	78.87
77.00	70.50	70.48
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/23/20
Matrix: Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y218.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3783	5.4		
3	TM	n-Nitrosodimethylamine	0.5546	0.5521	0.44	TM	
4	TM	Pyridine	1.551	1.687	8.8	TM	
5	S	2-Fluorophenol (S)	1.550	1.576	1.7	S	
6	S	Phenol-D6 (S)	1.954	2.000	2.3	S	
7	*TM	Phenol	2.239	2.309	3.1	*TM	
8	TM	Aniline	1.755	1.580	10.0	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9147	1.1	TM	
10	TM	2-Chlorophenol	1.864	1.882	0.99	TM	
11	TM	1,3-DCB	1.992	2.004	0.61	TM	
12	*TM	1,4-DCB	2.033	2.021	0.61	*TM	
13	TM	Benzyl alcohol	1.042	1.029	1.3	TM	
14	TM	1,2-DCB	1.910	1.911	0.04	TM	
15	TM	2-Methylphenol	1.379	1.413	2.5	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.251	5.5	TM	
17	TM	Acetophenone	2.406	2.354	2.2	TM	
18	TM	3&4-Methylphenol	1.915	1.918	0.13	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.192	1.6	**TM	
20	TM	Hexachloroethane	0.7164	0.7115	0.67	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4301	2.8	S	
23	TM	Nitrobenzene	0.4309	0.4259	1.2	TM	
24	TM	Isophorone	0.7379	0.7350	0.39	TM	
25	*TM	2-Nitrophenol	0.2595	0.2763	6.5	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4067	0.33	TM	
27	TML	Benzoic acid	0.2281	0.2592	14	TML	3.6
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4837	3.3	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4102	1.7	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4516	0.50	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5631	0.55	TM	
32	TM	Naphthalene	1.312	1.345	2.6	TM	
33	TM	4-Chloroaniline	0.5518	0.5032	8.8	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.3970	0.10	TM	
35	TM	Hexachloropropene	0.3271	0.3205	2.0	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2675	3.1	*TM	
37	TM	Caprolactum	0.1313	0.1374	4.6	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4017	2.5	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.8954	1.2	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9335	1.8	TM	
		Average			2.8		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y218.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5600	0.47	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8097	0.33	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5400	0.79	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5748	2.4	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.721	2.1	S	
47	TM	1,1'-Biphenyl	1.924	1.964	2.1	TM	
48	TM	2-Chloronaphthalene	1.522	1.554	2.1	TM	
49	TM	2-Nitroaniline	0.3796	0.3795	0.04	TM	
50	TM	Dimethyl phthalate	1.821	1.827	0.33	TM	
51	TM	2,6-DNT	0.4045	0.4365	7.9	TM	
52	TM	Acenaphthylene	2.334	2.377	1.8	TM	
53	TM	3-Nitroaniline	0.5014	0.5356	6.8	TM	
54	*TM	Acenaphthene	1.551	1.518	2.1	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.1634	18	**TML	14
56	**TM	4-Nitrophenol	0.2824	0.2776	1.7	**TM	
57	TM	Dibenzofuran	2.210	2.242	1.4	TM	
58	TM	2,4-DNT	0.5755	0.5932	3.1	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4661	0.56	TM	
60	TM	Diethyl phthalate	1.778	1.734	2.5	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.011	1.4	TM	
62	TM	Fluorene	1.828	1.857	1.6	TM	
63	TM	4-Nitroaniline	0.4196	0.4404	4.9	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2927	1.1	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.1948	0.11	TM	
67	TM	Diphenyl amine	0.7572	0.7610	0.50	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7610	0.50	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7271	0.81	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3111	3.9	TM	
71	TM	Hexachlorobenzene	0.3219	0.3241	0.68	TM	
72	TM	Atrazine	0.2783	0.2797	0.50	TM	
73	*TM	Pentachlorophenol	0.2190	0.2118	3.3	*TM	
74	TM	Phenanthrene	1.358	1.364	0.46	TM	
75	TM	Anthracene	1.412	1.455	3.1	TM	
76	TM	Carbazol	1.270	1.281	0.89	TM	
77	TM	Di-n-butylphthalate	1.536	1.546	0.60	TM	
78	*TM	Fluoranthene	1.570	1.591	1.3	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.4719	5.3	TM	
		Average			2.4		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y218.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Pyrene	1.596	1.664	4.3	TM	
82	S	Terphenyl-D14(S)	1.153	1.216	5.5	S	
83	TM	Butyl benzylphthalate	0.6574	0.6933	5.5	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.5975	13	TM	
85	TM	Benz (a) anthracene	1.607	1.665	3.7	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9738	5.6	TM	
87	TM	Chrysene	1.546	1.619	4.7	TM	
88	*TM	Di-n-octylphthalate	1.510	1.679	11	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.568	1.0	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.520	1.1	TM	
92	*TM	Benzo (a) pyrene	1.419	1.483	4.5	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.689	5.4	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.502	7.6	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.464	5.1	TM	
96							
97							
98							
99							
100							
101							
102							
103							
104							
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107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			5.6		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 13:45 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	157272	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	623624	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	374698	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	731491	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	731177	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	742323	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	619719	101.66708 ppb	0.01
Spiked Amount 200.000			Recovery =	50.834%	
6) Phenol-D6 (S)	4.72	99	786266	102.31784 ppb	0.01
Spiked Amount 200.000			Recovery =	51.159%	
22) Nitrobenzene-D5(S)	5.73	82	335264	51.39543 ppb	0.00
Spiked Amount 100.000			Recovery =	51.395%	
46) 2-Fluorobiphenyl(S)	7.77	172	806148	51.04606 ppb	0.00
Spiked Amount 100.000			Recovery =	51.046%	
64) 2,4,6-Tribromophenol(S)	9.47	330	274144	101.13754 ppb	0.00
Spiked Amount 200.000			Recovery =	50.569%	
82) Terphenyl-D14(S)	12.15	244	1111698	52.74611 ppb	0.00
Spiked Amount 100.000			Recovery =	52.746%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.80	58	7437	5.27246	91
3) n-Nitrosodimethylamine	2.03	42	108539	49.77757 ppb	91
4) Pyridine	2.05	79	331636	54.38155 ppb	97
7) Phenol	4.74	94	453852	51.56419 ppb	98
8) Aniline	4.76	93	310592	45.01501 ppb	97
9) Bis (2-chloroethyl) ether	4.83	63	179821	50.56164 ppb	90
10) 2-Chlorophenol	4.89	128	369979	50.49545 ppb	99
11) 1,3-DCB	5.05	146	393943	50.30670 ppb	98
12) 1,4-DCB	5.13	146	397211	49.69519 ppb	97
13) Benzyl alcohol	5.27	108	202294	49.37287 ppb	93
14) 1,2-DCB	5.30	146	375743	50.02167 ppb	96
15) 2-Methylphenol	5.39	107	277868	51.24024 ppb	98
16) Bis (2-chloroisopropyl) et	5.42	45	245990	52.75310 ppb	95
17) Acetophenone	5.56	105	462691	48.91420 ppb	83
18) 3&4-Methylphenol	5.57	107	754029	100.12921 ppb	97
19) n-Nitrosodi-n-propylamine	5.57	70	234416	49.19870 ppb	98
20) Hexachloroethane	5.67	117	139882	49.66293 ppb	87
23) Nitrobenzene	5.74	77	331979	49.41991 ppb	94
24) Isophorone	6.01	82	572955	49.80599 ppb	96
25) 2-Nitrophenol	6.10	139	215381	53.24378 ppb	91
26) 2,4-Dimethylphenol	6.15	122	317010	50.16483 ppb	98
27) Benzoic acid	6.25	105	202021m	48.20407 ppb	96
28) Bis (2-chloroethoxy) metha	6.26	93	377056	51.62637 ppb	99
29) 2,4-Dichlorophenol	6.38	162	319751	50.85892 ppb	95
30) 1,2,4-Trichlorobenzene	6.47	180	352066	50.24889 ppb	96
31) 3,4-Dimethylphenol	6.50	107	438986	49.72323 ppb	92
32) Naphthalene	6.55	128	1048585	51.27797 ppb	99
33) 4-Chloroaniline	6.62	127	392269	45.59480 ppb	98
34) 2,6-Dichlorophenol	6.63	162	309470	49.94771 ppb	98
35) Hexachloropropene	6.65	213	249801	48.98982 ppb	99
36) Hexachlorobutadiene	6.70	225	208514	48.45576 ppb	97
37) Caprolactum	7.04	55	107102	52.30936 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y218.D
Acq On : 23 Oct 20 12:56
Sample : 50ug/mL 8270 7/22/20 (6)
Misc :

Vial: 18
Operator: MA
Inst : Yoda
Multiplr: 1.00

Quant Time: Oct 23 13:45 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	313112	48.72944 ppb		98
39)	2-Methylnaphthalene	7.34	142	698009	50.57667 ppb		99
40)	1-Methylnaphthalene	7.45	142	727654	50.91165 ppb		98
42)	Hexachlorocyclopentadiene	7.53	237	262272	50.23333 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	379257	50.16677 ppb		98
44)	2,4,6-Trichlorophenol	7.68	196	252905	50.39578 ppb		96
45)	2,4,5-Trichlorophenol	7.72	196	269240	51.21115 ppb		99
47)	1,1'-Biphenyl	7.89	154	919918	51.04236 ppb		97
48)	2-Chloronaphthalene	7.91	162	727697	51.05127 ppb		97
49)	2-Nitroaniline	8.03	65	177738	49.97915 ppb		98
50)	Dimethyl phthalate	8.25	163	855586	50.16592 ppb		98
51)	2,6-DNT	8.32	165	204449	53.95907 ppb		83
52)	Acenaphthylene	8.38	152	1113371	50.91444 ppb		99
53)	3-Nitroaniline	8.03	138	250874	53.41643 ppb		97
54)	Acenaphthene	8.58	154	711021	48.93161 ppb		99
55)	2,4-Dinitrophenol	8.62	184	76524	42.90050 ppb		97
56)	4-Nitrophenol	8.71	65	130035m	49.14902 ppb		84
57)	Dibenzofuran	8.79	168	1049878	50.72154 ppb		92
58)	2,4-DNT	8.78	165	277861	51.54295 ppb		92
59)	2,3,4,6-Tetrachlorophenol	8.94	232	218311	49.72188 ppb	#	89
60)	Diethyl phthalate	9.07	149	811964	48.74242 ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	473403	49.28530 ppb		85
62)	Fluorene	9.19	166	869717	50.79682 ppb		99
63)	4-Nitroaniline	8.50	138	206263	52.47145 ppb		99
66)	4,6-Dinitro-2-methylphenol	9.25	198	178144	50.05579 ppb	#	82
67)	Diphenyl amine	9.34	169	1391749	100.50395 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1391749	100.50395 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	664855	49.59290 ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	284466	51.93330 ppb		97
71)	Hexachlorobenzene	9.82	284	296351	50.34125 ppb	#	92
72)	Atrazine	9.97	200	127852	25.12490 ppb		95
73)	Pentachlorophenol	10.06	266	193687	48.35511 ppb		97
74)	Phenanthrene	10.30	178	1247591	50.23158 ppb		100
75)	Anthracene	10.37	178	1330338	51.53770 ppb		99
76)	Carbazol	10.55	167	1171261	50.44518 ppb		97
77)	Di-n-butylphthalate	10.98	149	1413279	50.29815 ppb		99
78)	Fluoranthene	11.69	202	1454385	50.64180 ppb	#	96
80)	Benzidine	11.86	184	431311	52.63209 ppb		98
81)	Pyrene	11.95	202	1520434	52.12925 ppb		99
83)	Butyl benzylphthalate	12.73	149	633633	52.72611 ppb	#	80
84)	3,3'-Dichlorobenzidine	13.33	252	546075	56.54635 ppb		99
85)	Benz (a) anthracene	13.35	228	1522108	51.82663 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.40	149	889997	52.81022 ppb		100
87)	Chrysene	13.39	228	1479935	52.36366 ppb		100
88)	Di-n-octylphthalate	14.13	149	1534431	55.60494 ppb		97
90)	Benzo (b) fluoranthene	14.57	252	1454724	50.50733 ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1409963	50.53598 ppb		98
92)	Benzo (a) pyrene	14.99	252	1376404	52.26394 ppb		98
93)	Indeno (1,2,3-cd) pyrene	16.75	276	1566877	52.69626 ppb		97
94)	Dibenz (a,h) anthracene	16.78	278	1393778	53.80881 ppb		100
95)	Benzo (g,h,i) perylene	17.25	276	1358027	52.57418 ppb		98

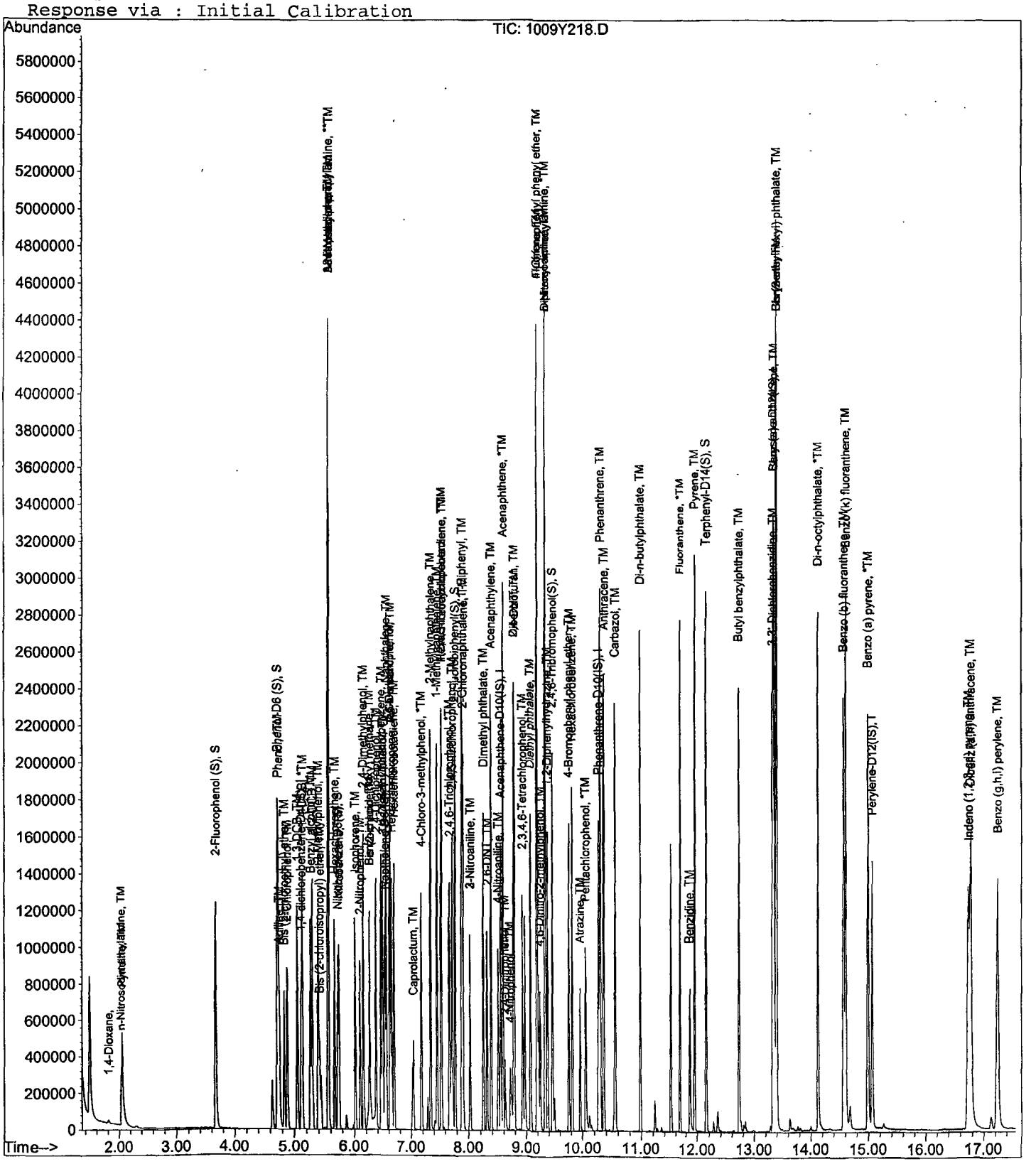
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 13:45 2020 Quant Results File: Y1009.RES

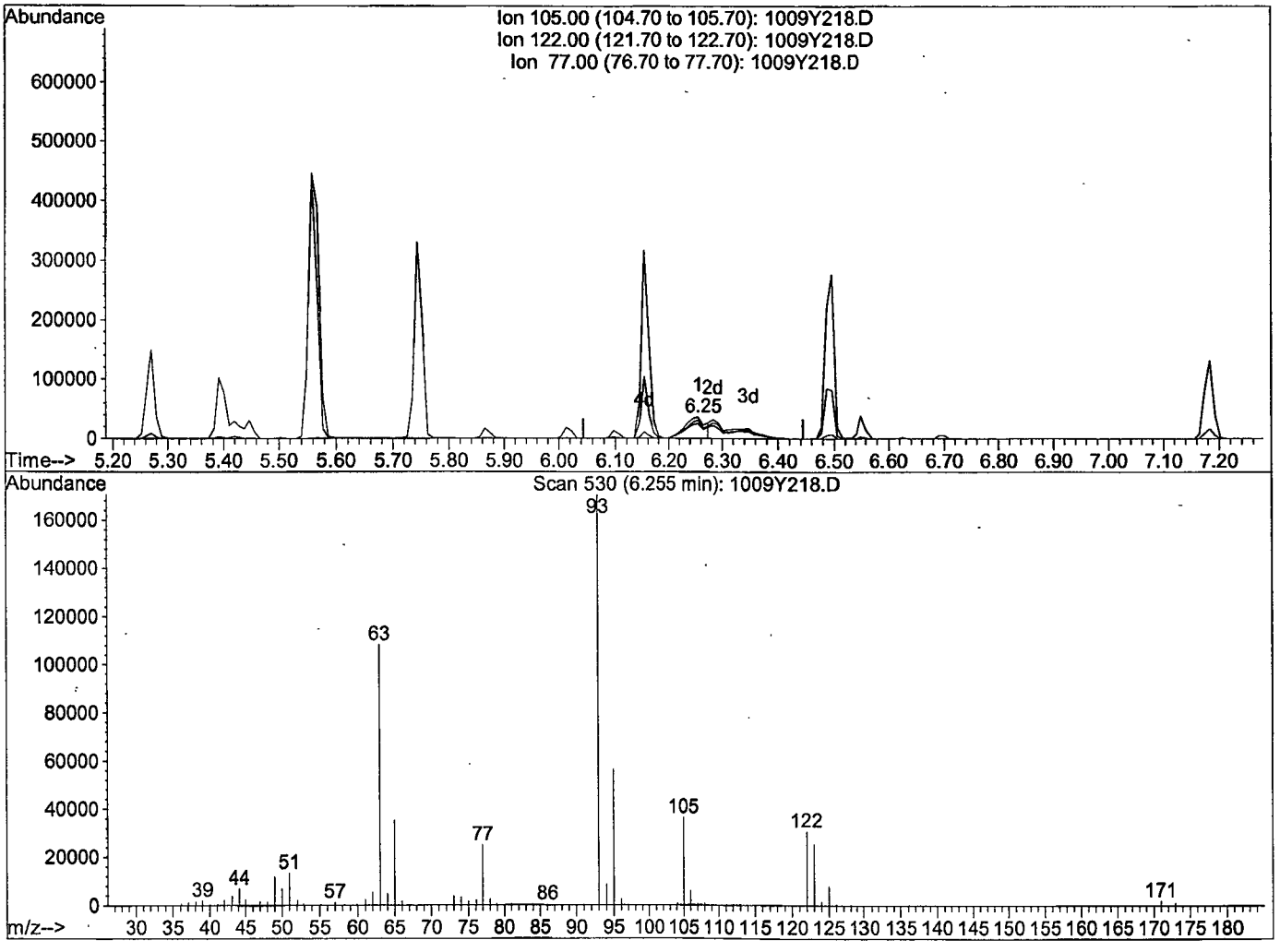
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 12:57 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y218.D

(27) Benzoic acid (TM)

6.25min 27.9096ppb

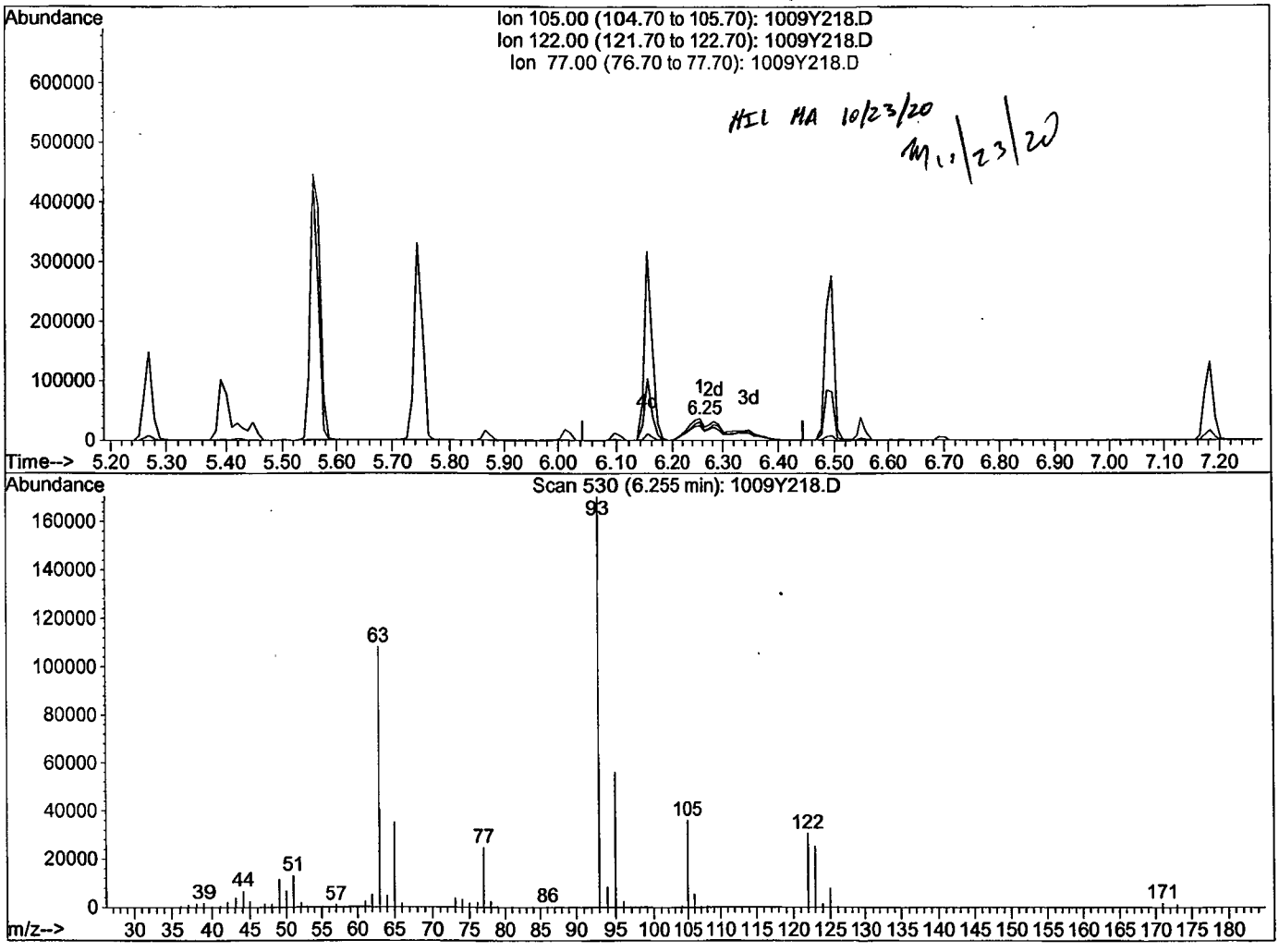
response 99282

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	82.91
77.00	70.50	67.85
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 13:45 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y218.D

(27) Benzoic acid (TM)

6.25min 48.2041ppb m

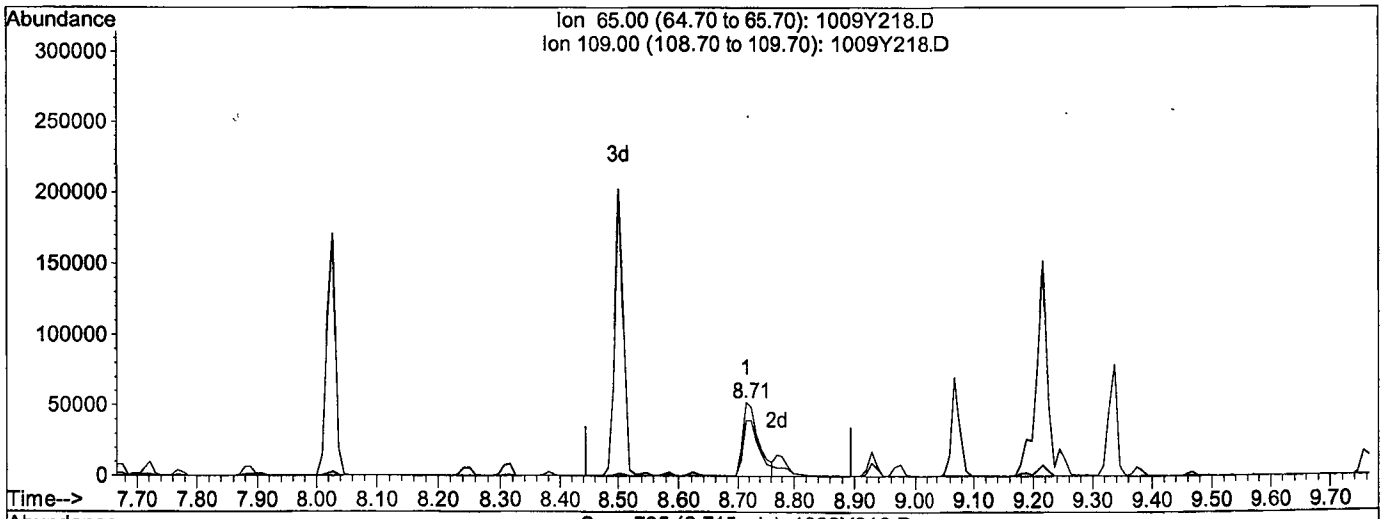
response 202021

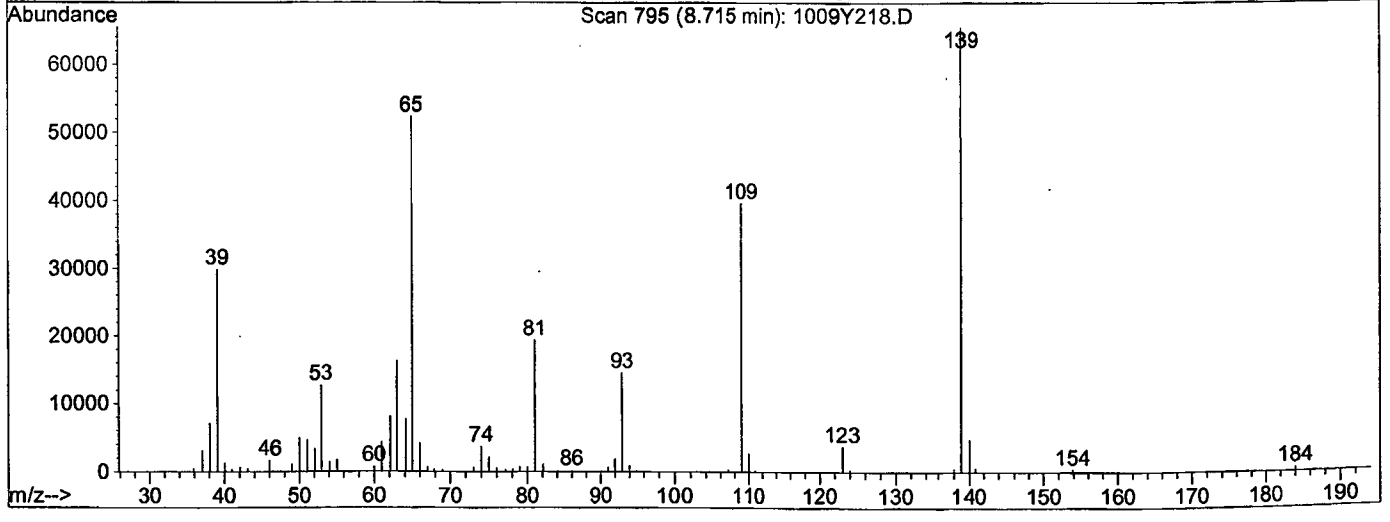
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	84.81
77.00	70.50	68.70
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 13:45 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y218.D

(56) 4-Nitrophenol (**TM)

8.71min 40.1277ppb

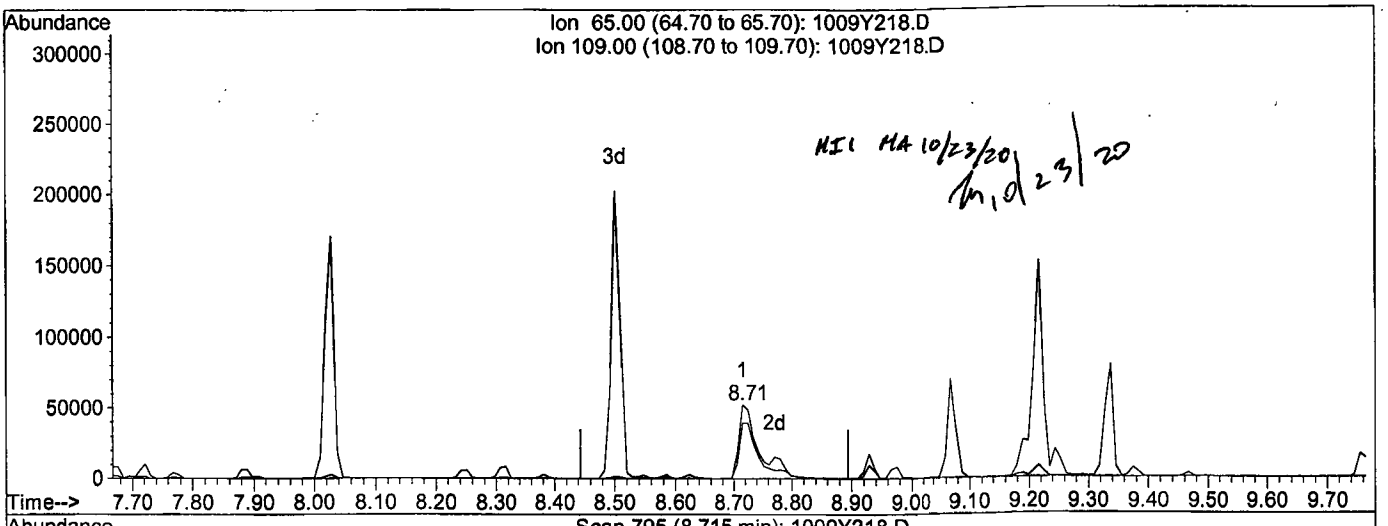
response 106167

Ion	Exp%	Act%
65.00	100	100
109.00	90.40	75.71
0.00	0.00	0.00
0.00	0.00	0.00

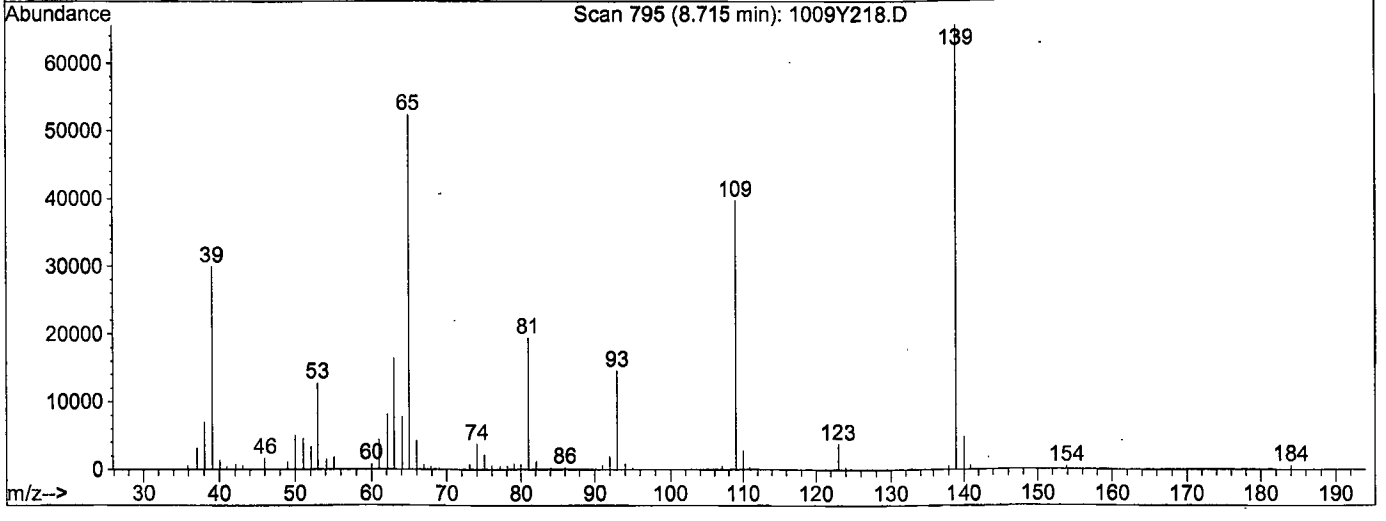
Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 13:45 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



HI MA 10/23/20 10/23/20



TIC: 1009Y218.D

(56) 4-Nitrophenol (**TM)

8.71min 49.1490ppb m

response 130035

Ion	Exp%	Act%
65.00	100	100
109.00	90.40	75.71
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/23/20
Matrix: Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y236.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3491	2.7		
3	TM	n-Nitrosodimethylamine	0.5546	0.6020	8.6	TM	
4	TM	Pyridine	1.551	1.568	1.1	TM	
5	S	2-Fluorophenol (S)	1.550	1.590	2.6	S	
6	S	Phenol-D6 (S)	1.954	2.140	9.5	S	
7	*TM	Phenol	2.239	2.515	12	*TM	
8	TM	Aniline	1.755	1.559	11	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9712	7.4	TM	
10	TM	2-Chlorophenol	1.864	2.068	11	TM	
11	TM	1,3-DCB	1.992	2.094	5.1	TM	
12	*TM	1,4-DCB	2.033	2.153	5.9	*TM	
13	TM	Benzyl alcohol	1.042	1.156	11	TM	
14	TM	1,2-DCB	1.910	2.017	5.6	TM	
15	TM	2-Methylphenol	1.379	1.540	12	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.328	12	TM	
17	TM	Acetophenone	2.406	2.588	7.6	TM	
18	TM	3&4-Methylphenol	1.915	2.134	11	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.332	9.9	**TM	
20	TM	Hexachloroethane	0.7164	0.7526	5.1	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4180	0.09	S	
23	TM	Nitrobenzene	0.4309	0.4443	3.1	TM	
24	TM	Isophorone	0.7379	0.7741	4.9	TM	
25	*TM	2-Nitrophenol	0.2595	0.2801	7.9	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4319	6.6	TM	
27	TML	Benzoic acid	0.2281	0.2954	29	TML	7.6
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4992	6.6	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4285	6.3	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4734	5.3	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5922	4.6	TM	
32	TM	Naphthalene	1.312	1.387	5.7	TM	
33	TM	4-Chloroaniline	0.5518	0.5635	2.1	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.4221	6.2	TM	
35	TM	Hexachloropropene	0.3271	0.3287	0.51	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2797	1.3	*TM	
37	TM	Caprolactum	0.1313	0.1436	9.4	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4299	4.3	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.9386	6.0	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9870	7.7	TM	
		Average			7.1		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/23/20
Matrix: 0 Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y236.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5294	5.0	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8353	3.5	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5559	3.8	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5800	3.3	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.668	1.1	S	
47	TM	1,1'-Biphenyl	1.924	2.013	4.6	TM	
48	TM	2-Chloronaphthalene	1.522	1.593	4.7	TM	
49	TM	2-Nitroaniline	0.3796	0.3895	2.6	TM	
50	TM	Dimethyl phthalate	1.821	1.868	2.6	TM	
51	TM	2,6-DNT	0.4045	0.4431	9.6	TM	
52	TM	Acenaphthylene	2.334	2.433	4.2	TM	
53	TM	3-Nitroaniline	0.5014	0.5468	9.1	TM	
54	*TM	Acenaphthene	1.551	1.576	1.6	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.2484	25	**TML	13
56	**TM	4-Nitrophenol	0.2824	0.2654	6.0	**TM	
57	TM	Dibenzofuran	2.210	2.282	3.3	TM	
58	TM	2,4-DNT	0.5755	0.6247	8.6	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4917	4.9	TM	
60	TM	Diethyl phthalate	1.778	1.795	0.95	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.052	2.6	TM	
62	TM	Fluorene	1.828	1.925	5.3	TM	
63	TM	4-Nitroaniline	0.4196	0.4569	8.9	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2898	0.16	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2141	10	TM	
67	TM	Diphenyl amine	0.7572	0.7832	3.4	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7832	3.4	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7289	0.57	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3231	7.9	TM	
71	TM	Hexachlorobenzene	0.3219	0.3399	5.6	TM	
72	TM	Atrazine	0.2783	0.1954	30	TM	
73	*TM	Pentachlorophenol	0.2190	0.2184	0.27	*TM	
74	TM	Phenanthrene	1.358	1.400	3.1	TM	
75	TM	Anthracene	1.412	1.503	6.5	TM	
76	TM	Carbazol	1.270	1.322	4.1	TM	
77	TM	Di-n-butylphthalate	1.536	1.614	5.1	TM	
78	*TM	Fluoranthene	1.570	1.648	4.9	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.2655	41	TM	
		Average			6.7		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y236.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Pyrene	1.596	1.680	5.3	TM	
82	S	Terphenyl-D14(S)	1.153	1.193	3.4	S	
83	TM	Butyl benzylphthalate	0.6574	0.6888	4.8	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6489	23	TM	
85	TM	Benz (a) anthracene	1.607	1.732	7.8	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	1.005	9.0	TM	
87	TM	Chrysene	1.546	1.596	3.2	TM	
88	*TM	Di-n-octylphthalate	1.510	1.719	14	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.679	8.2	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.557	3.6	TM	
92	*TM	Benzo (a) pyrene	1.419	1.551	9.3	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.757	9.7	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.564	12	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.497	7.6	TM	
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
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108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			8.6		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y236.D Vial: 36
Acq On : 23 Oct 20 20:35 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 9:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	173637	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	737280	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	458437	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	893524	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.37	240	913770	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.06	264	897270	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.67	112	690370	102.58328 ppb		0.01
Spiked Amount 200.000			Recovery =	51.292%		
6) Phenol-D6 (S)	4.72	99	929023	109.50084 ppb		0.01
Spiked Amount 200.000			Recovery =	54.751%		
22) Nitrobenzene-D5(S)	5.73	82	385243	49.95313 ppb		0.00
Spiked Amount 100.000			Recovery =	49.953%		
46) 2-Fluorobiphenyl(S)	7.77	172	955837	49.46899 ppb		0.00
Spiked Amount 100.000			Recovery =	49.469%		
64) 2,4,6-Tribromophenol(S)	9.47	330	332168	100.15973 ppb		0.00
Spiked Amount 200.000			Recovery =	50.080%		
82) Terphenyl-D14(S)	12.15	244	1362374	51.72323 ppb		0.00
Spiked Amount 100.000			Recovery =	51.723%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	7578	4.86608		78
3) n-Nitrosodimethylamine	2.03	42	130666	54.27747 ppb		98
4) Pyridine	2.05	79	340320	50.54597 ppb		98
7) Phenol	4.74	94	545962	56.18308 ppb		95
8) Aniline	4.76	93	338432	44.42706 ppb		97
9) Bis (2-chloroethyl) ether	4.83	63	210796	53.68491 ppb		92
10) 2-Chlorophenol	4.89	128	448854	55.48677 ppb		98
11) 1,3-DCB	5.05	146	454431	52.56172 ppb		98
12) 1,4-DCB	5.13	146	467333	52.95765 ppb		98
13) Benzyl alcohol	5.27	108	250919	55.46871 ppb		95
14) 1,2-DCB	5.30	146	437871	52.79862 ppb		96
15) 2-Methylphenol	5.39	107	334280	55.83316 ppb		99
16) Bis (2-chloroisopropyl) et	5.42	45	288271	55.99389 ppb		96
17) Acetophenone	5.56	105	561814	53.79546 ppb		84
18) 3&4-Methylphenol	5.57	107	926254	111.40687 ppb		97
19) n-Nitrosodi-n-propylamine	5.57	70	289109	54.95879 ppb		96
20) Hexachloroethane	5.67	117	163342	52.52638 ppb		88
23) Nitrobenzene	5.74	77	409468	51.55867 ppb		93
24) Isophorone	6.02	82	713426	52.45663 ppb		94
25) 2-Nitrophenol	6.10	139	258123	53.97325 ppb	#	88
26) 2,4-Dimethylphenol	6.15	122	398036	53.27692 ppb		99
27) Benzoic acid	6.29	105	272209	53.77955 ppb		98
28) Bis (2-chloroethoxy) metha	6.26	93	460077	53.28275 ppb		98
29) 2,4-Dichlorophenol	6.38	162	394946	53.13532 ppb		94
30) 1,2,4-Trichlorobenzene	6.47	180	436280	52.66936 ppb		97
31) 3,4-Dimethylphenol	6.50	107	545773	52.28909 ppb		94
32) Naphthalene	6.55	128	1277936	52.85994 ppb		99
33) 4-Chloroaniline	6.62	127	519343	51.05944 ppb		99
34) 2,6-Dichlorophenol	6.63	162	389034	53.10984 ppb		99
35) Hexachloropropene	6.65	213	302969	50.25742 ppb		97
36) Hexachlorobutadiene	6.70	225	257775	50.66889 ppb		98
37) Caprolactum	7.04	55	132385	54.69039 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y236.D Vial: 36
Acq On : 23 Oct 20 20:35 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 9:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	396156	52.14928 ppb		99
39)	2-Methylnaphthalene	7.34	142	865021	53.01591 ppb		99
40)	1-Methylnaphthalene	7.45	142	909661	53.83468 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	303360	47.48977 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	478648	51.74882 ppb		98
44)	2,4,6-Trichlorophenol	7.67	196	318550	51.88193 ppb		97
45)	2,4,5-Trichlorophenol	7.72	196	332365	51.67041 ppb	#	92
47)	1,1'-Biphenyl	7.89	154	1153421	52.30837 ppb		98
48)	2-Chloronaphthalene	7.91	162	913026	52.35291 ppb		96
49)	2-Nitroaniline	8.03	65	223183	51.29457 ppb		96
50)	Dimethyl phthalate	8.25	163	1070478	51.30086 ppb		98
51)	2,6-DNT	8.32	165	253934	54.77747 ppb		86
52)	Acenaphthylene	8.38	152	1394112	52.10752 ppb		99
53)	3-Nitroaniline	8.03	138	313350	54.53190 ppb		99
54)	Acenaphthene	8.58	154	903007	50.79254 ppb		98
55)	2,4-Dinitrophenol	8.62	184	142344	56.67099 ppb		96
56)	4-Nitrophenol	8.71	65	152089	46.98445 ppb		90
57)	Dibenzofuran	8.79	168	1307871	51.64404 ppb		93
58)	2,4-DNT	8.78	165	358002	54.27863 ppb		91
59)	2,3,4,6-Tetrachlorophenol	8.93	232	281765	52.45183 ppb		97
60)	Diethyl phthalate	9.08	149	1028763	50.47629 ppb		99
61)	4-Chlorophenyl phenyl ethe	9.19	204	603047	51.31440 ppb		98
62)	Fluorene	9.19	166	1103211	52.66461 ppb		99
63)	4-Nitroaniline	8.50	138	261805	54.43540 ppb		98
66)	4,6-Dinitro-2-methylphenol	9.25	198	239157	55.01346 ppb		93
67)	Diphenyl amine	9.34	169	1749476	103.42677 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1749476	103.42677 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	814127	49.71501 ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	360880	53.93630 ppb		97
71)	Hexachlorobenzene	9.82	284	379588	52.78771 ppb	#	92
72)	Atrazine	9.96	200	109105	17.55271 ppb		98
73)	Pentachlorophenol	10.05	266	243986	49.86658 ppb		100
74)	Phenanthrene	10.30	178	1563387	51.53163 ppb		99
75)	Anthracene	10.37	178	1678868	53.24543 ppb		98
76)	Carbazol	10.55	167	1476636	52.06456 ppb		98
77)	Di-n-butylphthalate	10.98	149	1803204	52.53779 ppb		99
78)	Fluoranthene	11.69	202	1840482	52.46433 ppb	#	97
80)	Benzidine	11.85	184	303288	29.61426 ppb	#	97
81)	Pyrene	11.95	202	1918864	52.64337 ppb		99
83)	Butyl benzylphthalate	12.73	149	786746	52.38514 ppb		83
84)	3,3'-Dichlorobenzidine	13.33	252	741193	61.41426 ppb		97
85)	Benz (a) anthracene	13.35	228	1977825	53.88663 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.40	149	1147417	54.47990 ppb		99
87)	Chrysene	13.39	228	1823348	51.62291 ppb		100
88)	Di-n-octylphthalate	14.13	149	1963692	56.94098 ppb		97
90)	Benzo (b) fluoranthene	14.57	252	1882983	54.08663 ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1746292	51.78210 ppb		98
92)	Benzo (a) pyrene	14.99	252	1739543	54.64635 ppb		98
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1970974	54.83976 ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1753848	56.01722 ppb		97
95)	Benzo (g,h,i) perylene	17.25	276	1679430	53.78929 ppb		98

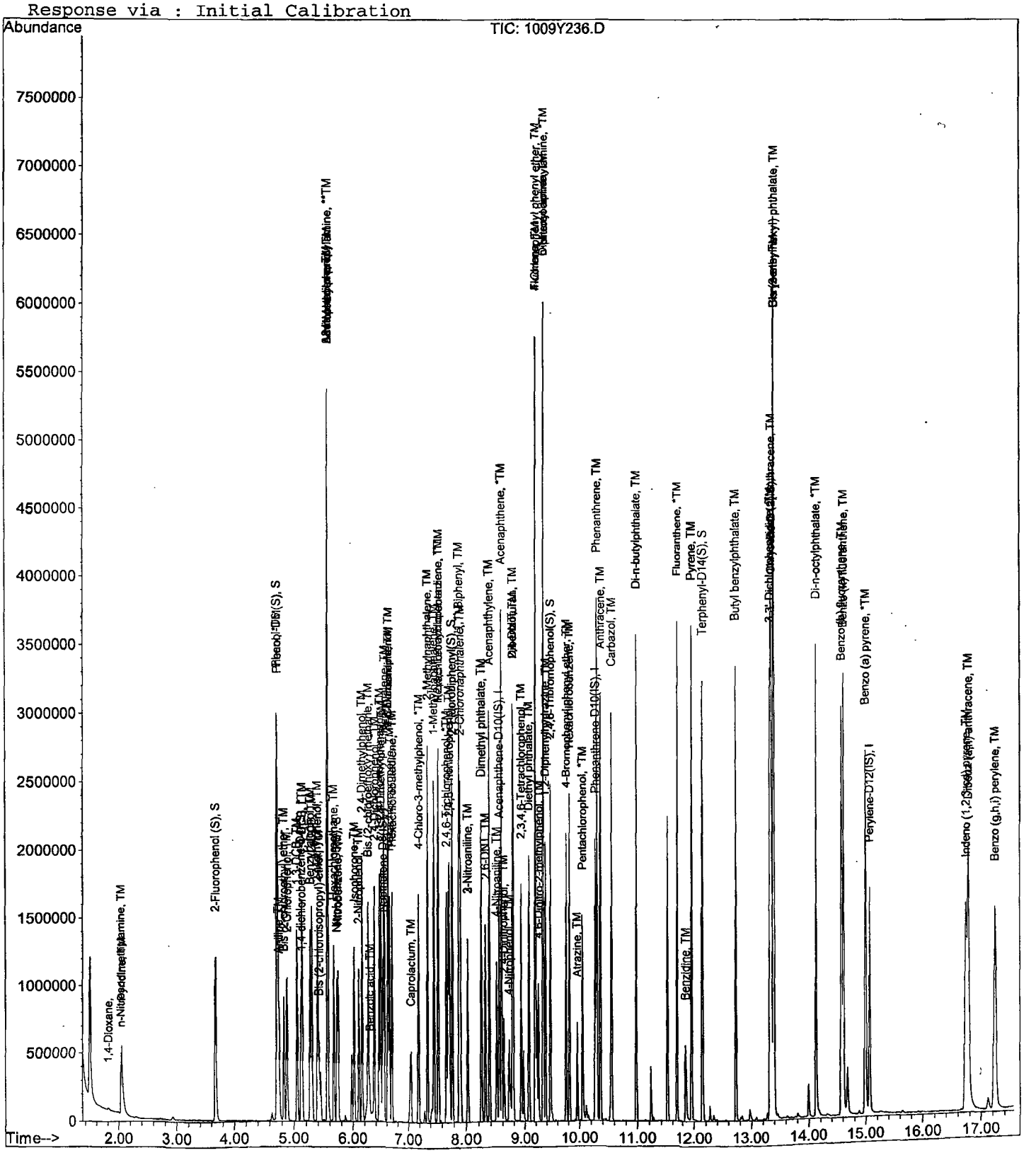
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y236.D Vial: 36
Acq On : 23 Oct 20 20:35 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 9:32 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y223.D Vial: 23
Acq On : 23 Oct 20 15:04 Operator: MA
Sample : BA20486W13 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 16:15 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	152254	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	616005	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	366323	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	736646	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.35	240	724119	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	696016	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1080096	228.79188 ppb	0.00
Spiked Amount 250.000			Recovery =	91.517%	
6) Phenol-D6 (S)	4.72	99	1376705	231.32122 ppb	0.01
Spiked Amount 250.000			Recovery =	92.528%	
22) Nitrobenzene-D5(S)	5.73	82	612266	118.77535 ppb	0.00
Spiked Amount 125.000			Recovery =	95.020%	
46) 2-Fluorobiphenyl(S)	7.77	172	1427197	115.54698 ppb	0.00
Spiked Amount 125.000			Recovery =	92.438%	
64) 2,4,6-Tribromophenol(S)	9.47	330	517484	244.09437 ppb	0.00
Spiked Amount 250.000			Recovery =	97.638%	
82) Terphenyl-D14(S)	12.15	244	2318530	138.84778 ppb	0.00
Spiked Amount 125.000			Recovery =	111.078%	

Target Compounds Qvalue

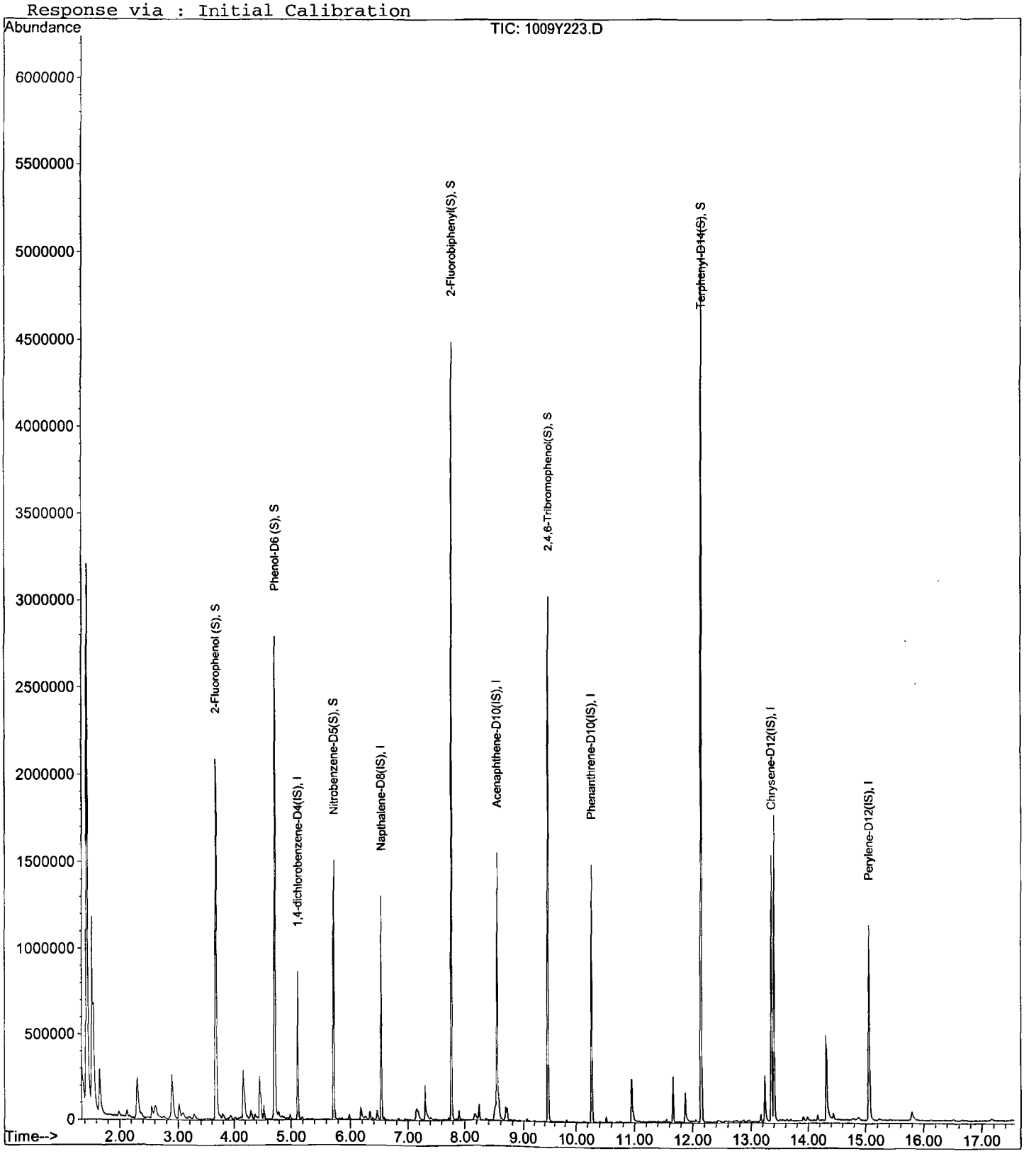
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y223.D Vial: 23
Acq On : 23 Oct 20 15:04 Operator: MA
Sample : BA20486W13 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 16:15 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y219.D Vial: 19
Acq On : 23 Oct 20 13:21 Operator: MA
Sample : 201021A BLK 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 26 17:55 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	148761	40.00000	ppb	0.00
21) Napthalene-D8(IS)	6.52	136	607132	40.00000	ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	370629	40.00000	ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	718091	40.00000	ppb	0.00
79) Chrysene-D12(IS)	13.36	240	743070	40.00000	ppb	0.00
89) Perylene-D12(IS)	15.06	264	716825	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.67	112	954589	206.95422	ppb	0.01
Spiked Amount 250.000			Recovery = 82.782%			
6) Phenol-D6 (S)	4.72	99	1197709	205.97073	ppb	0.01
Spiked Amount 250.000			Recovery = 82.388%			
22) Nitrobenzene-D5(S)	5.72	82	563083	110.83061	ppb	0.00
Spiked Amount 125.000			Recovery = 88.665%			
46) 2-Fluorobiphenyl(S)	7.77	172	1335300	106.85093	ppb	0.00
Spiked Amount 125.000			Recovery = 85.481%			
64) 2,4,6-Tribromophenol(S)	9.47	330	465166	216.86706	ppb	0.00
Spiked Amount 250.000			Recovery = 86.747%			
82) Terphenyl-D14(S)	12.15	244	2106213	122.91609	ppb	0.00
Spiked Amount 125.000			Recovery = 98.333%			

Target Compounds Qvalue

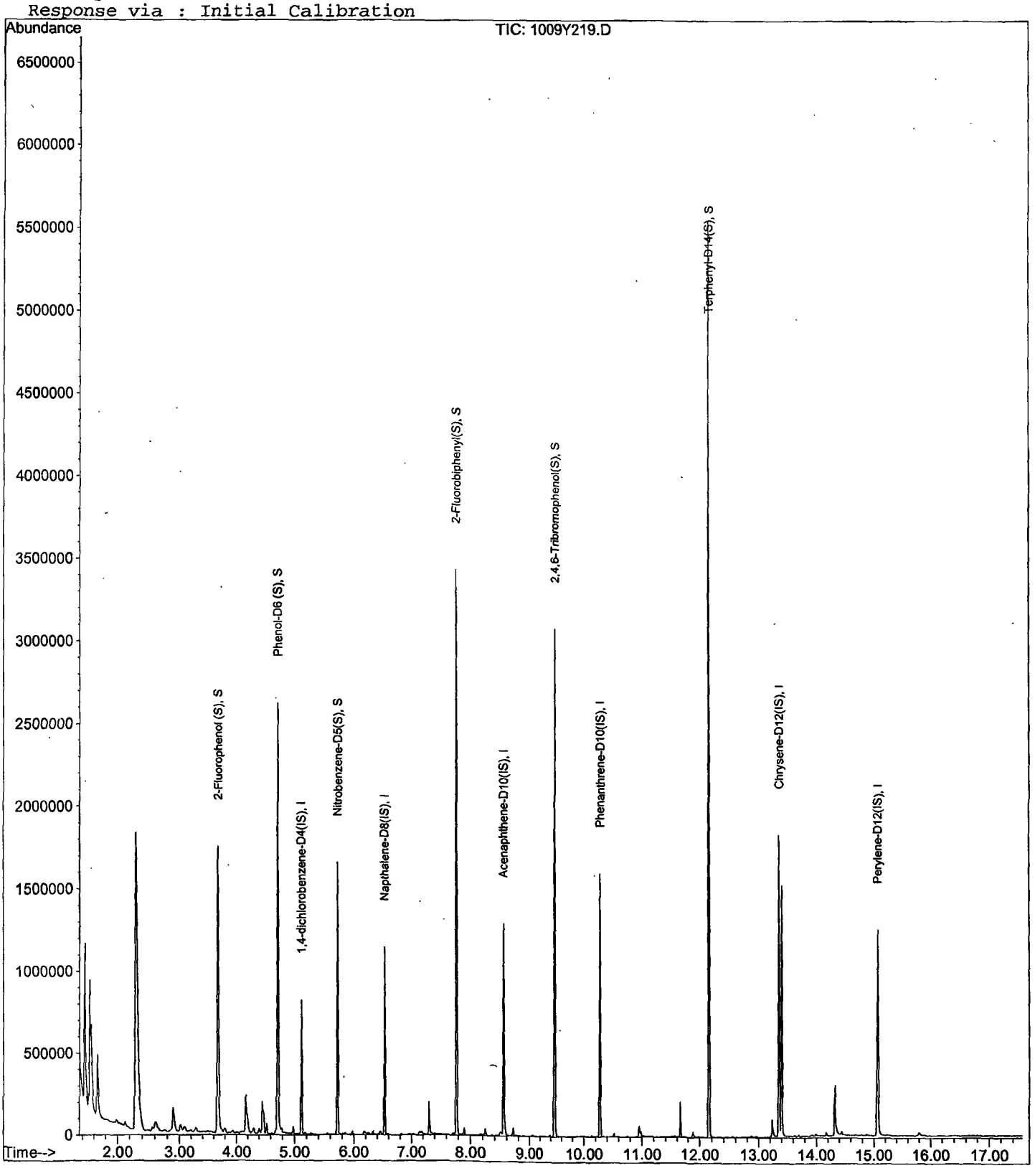
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y219.D Vial: 19
Acq On : 23 Oct 20 13:21 Operator: MA
Sample : 201021A BLK 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 26 17:55 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y220.D Vial: 20
Acq On : 23 Oct 20 13:47 Operator: MA
Sample : 201021A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 13:50 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	144438	40.00000	ppb	0.00
21) Napthalene-D8(IS)	6.53	136	584633	40.00000	ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	352993	40.00000	ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	710154	40.00000	ppb	0.00
79) Chrysene-D12(IS)	13.36	240	702959	40.00000	ppb	0.00
89) Perylene-D12(IS)	15.06	264	698448	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.67	112	1043972	233.10648	ppb	0.01
Spiked Amount 250.000			Recovery	= 93.242%		
6) Phenol-D6 (S)	4.73	99	1301517	230.52162	ppb	0.02
Spiked Amount 250.000			Recovery	= 92.209%		
22) Nitrobenzene-D5(S)	5.73	82	560854	114.64019	ppb	0.00
Spiked Amount 125.000			Recovery	= 91.712%		
46) 2-Fluorobiphenyl(S)	7.78	172	1324687	111.29766	ppb	0.00
Spiked Amount 125.000			Recovery	= 89.038%		
64) 2,4,6-Tribromophenol(S)	9.48	330	478529	234.24331	ppb	0.00
Spiked Amount 250.000			Recovery	= 93.697%		
82) Terphenyl-D14(S)	12.15	244	2083485	128.52765	ppb	0.00
Spiked Amount 125.000			Recovery	= 102.822%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	7177	6.92529		77
3) n-Nitrosodimethylamine	2.03	42	95311	59.49369	ppb	98
4) Pyridine	2.06	79	120619	26.92065	ppb	98
7) Phenol	4.74	94	375459	58.05992	ppb	97
8) Aniline	4.76	93	113632	22.41546	ppb	97
9) Bis (2-chloroethyl) ether	4.83	63	152524	58.37123	ppb	97
10) 2-Chlorophenol	4.89	128	302433	56.18033	ppb	98
11) 1,3-DCB	5.05	146	294334	51.15792	ppb	97
12) 1,4-DCB	5.13	146	301161	51.28281	ppb	97
13) Benzyl alcohol	5.27	108	163490	54.30959	ppb	93
14) 1,2-DCB	5.30	146	290493	52.63600	ppb	97
15) 2-Methylphenol	5.39	107	223283	56.04131	ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	203352	59.35522	ppb	94
17) Acetophenone	5.56	105	363439	52.29442	ppb	83
18) 3&4-Methylphenol	5.57	107	616376	111.40339	ppb	98
19) n-Nitrosodi-n-propylamine	5.57	70	192205	54.90489	ppb	97
20) Hexachloroethane	5.67	117	90029	43.50437	ppb	89
23) Nitrobenzene	5.74	77	283970	56.36550	ppb	91
24) Isophorone	6.01	82	477572	55.35406	ppb	96
25) 2-Nitrophenol	6.10	139	172530	56.86900	ppb	92
26) 2,4-Dimethylphenol	6.15	122	259436	54.74017	ppb	98
27) Benzoic acid	6.27	105	156764	51.66187	ppb	97
28) Bis (2-chloroethoxy) metha	6.26	93	315000	57.50768	ppb	98
29) 2,4-Dichlorophenol	6.38	162	259783	55.09541	ppb	94
30) 1,2,4-Trichlorobenzene	6.47	180	267313	50.87120	ppb	97
31) 3,4-Dimethylphenol	6.50	107	370041	55.88664	ppb	94
32) Naphthalene	6.55	128	849275	55.37644	ppb	99
33) 4-Chloroaniline	6.62	127	141667	21.95582	ppb	97
34) 2,6-Dichlorophenol	6.63	162	255957	55.08249	ppb	98
35) Hexachloropropene	6.65	213	115173	30.11701	ppb	99
36) Hexachlorobutadiene	6.70	225	137307	42.54538	ppb	99
37) Caprolactum	7.03	55	93047	60.59457	ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y220.D Vial: 20
Acq On : 23 Oct 20 13:47 Operator: MA
Sample : 201021A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 13:50 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	265648	55.12490 ppb		99
39) 2-Methylnaphthalene	7.34	142	594500	57.43685 ppb		100
40) 1-Methylnaphthalene	7.45	142	569230	53.10428 ppb		99
42) Hexachlorocyclopentadiene	7.53	237	54464	13.84124 ppb		100
43) 1,2,4,5-Tetrachlorobenzene	7.54	216	296512	52.04153 ppb		97
44) 2,4,6-Trichlorophenol	7.67	196	209628	55.42572 ppb		97
45) 2,4,5-Trichlorophenol	7.72	196	225043	56.79574 ppb		99
47) 1,1'-Biphenyl	7.89	154	748781	55.12667 ppb		97
48) 2-Chloronaphthalene	7.91	162	585311	54.48387 ppb		95
49) 2-Nitroaniline	8.03	65	142457	53.15176 ppb		96
50) Dimethyl phthalate	8.25	163	752441	58.53868 ppb		98
51) 2,6-DNT	8.32	165	167835	58.77427 ppb	#	79
52) Acenaphthylene	8.38	152	903101	54.79774 ppb		99
53) 3-Nitroaniline	8.03	138	201181	56.83704 ppb		96
54) Acenaphthene	8.58	154	586476	53.55285 ppb		99
55) 2,4-Dinitrophenol	8.62	184	83465	58.84463 ppb		97
56) 4-Nitrophenol	8.72	65	100488	50.39577 ppb		84
57) Dibenzofuran	8.79	168	853213	54.69358 ppb		91
58) 2,4-DNT	8.77	165	230322	56.68947 ppb		95
59) 2,3,4,6-Tetrachlorophenol	8.93	232	185969	56.20019 ppb		97
60) Diethyl phthalate	9.07	149	683685	54.45675 ppb		97
61) 4-Chlorophenyl phenyl ethe	9.19	204	395114	54.58008 ppb		98
62) Fluorene	9.19	166	714060	55.33737 ppb		98
63) 4-Nitroaniline	8.50	138	38066	12.84885 ppb	#	76
66) 4,6-Dinitro-2-methylphenol	9.24	198	142611	51.59440 ppb	#	84
67) Diphenyl amine	9.34	169	935437	86.97676 ppb		99
68) n-Nitrosodiphenylamine	9.34	169	935437	86.97676 ppb		99
69) 1,2-Diphenylhydrazine	9.37	77	520820	50.02035 ppb		97
70) 4-Bromophenyl phenyl ether	9.76	248	234061	55.01880 ppb		97
71) Hexachlorobenzene	9.82	284	249571	54.58561 ppb	#	92
72) Atrazine	9.96	200	65329	16.52986 ppb		95
73) Pentachlorophenol	10.06	266	158857	51.06399 ppb		98
74) Phenanthrene	10.30	178	1035009	53.65562 ppb		99
75) Anthracene	10.36	178	1049792	52.36399 ppb		99
76) Carbazol	10.55	167	955957	53.01159 ppb		97
77) Di-n-butylphthalate	10.98	149	1233158	56.50792 ppb		98
78) Fluoranthene	11.69	202	1186244	53.18269 ppb	#	97
80) Benzidine	11.86	184	15109	2.39717 ppb	#	73
81) Pyrene	11.95	202	1267201	56.48874 ppb		98
83) Butyl benzylphthalate	12.72	149	534092	57.78387 ppb		83
84) 3,3'-Dichlorobenzidine	13.33	252	43158	5.81054 ppb		94
85) Benz (a) anthracene	13.35	228	1195850	52.94034 ppb		99
86) Bis (2-ethylhexyl) phthala	13.40	149	1242559	95.86255 ppb		98
87) Chrysene	13.39	228	1217795	56.02270 ppb		99
88) Di-n-octylphthalate	14.13	149	1291080	60.83054 ppb		96
90) Benzo (b) fluoranthene	14.57	252	1229082	56.69222 ppb		98
91) Benzo (k) fluoranthene	14.61	252	1205470	57.40084 ppb		99
92) Benzo (a) pyrene	14.99	252	1080215	54.49232 ppb		99
93) Indeno (1,2,3-cd) pyrene	16.74	276	1237830	55.30632 ppb		96
94) Dibenz (a,h) anthracene	16.78	278	1140859	58.51411 ppb		99
95) Benzo (g,h,i) perylene	17.25	276	1106770	56.92333 ppb		99

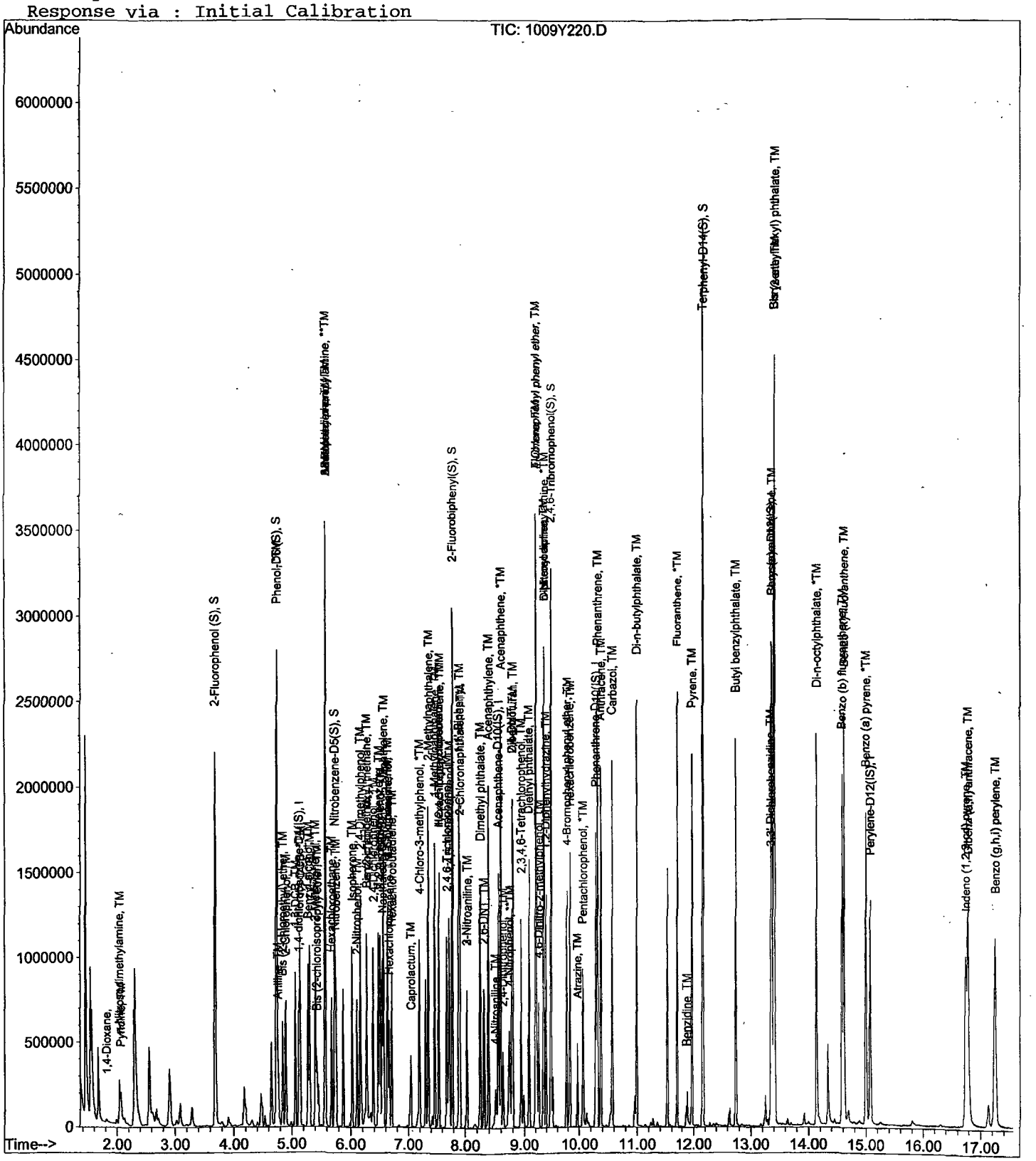
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y220.D Vial: 20
Acq On : 23 Oct 20 13:47 Operator: MA
Sample : 201021A LCS-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 13:50 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y221.D Vial: 21
Acq On : 23 Oct 20 14:13 Operator: MA
Sample : 201021A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	143484	40.00000	ppb		0.00
21) Napthalene-D8(IS)	6.53	136	576643	40.00000	ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	351287	40.00000	ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	691284	40.00000	ppb		0.00
79) Chrysene-D12(IS)	13.36	240	694410	40.00000	ppb		0.00
89) Perylene-D12(IS)	15.06	264	701317	40.00000	ppb		0.00
System Monitoring Compounds							
5) 2-Fluorophenol (S)	3.68	112	1085052	243.89002	ppb		0.02
Spiked Amount 250.000			Recovery	= 97.556%			
6) Phenol-D6 (S)	4.73	99	1363850	243.16800	ppb		0.02
Spiked Amount 250.000			Recovery	= 97.267%			
22) Nitrobenzene-D5(S)	5.72	82	587082	121.66402	ppb		0.00
Spiked Amount 125.000			Recovery	= 97.331%			
46) 2-Fluorobiphenyl(S)	7.78	172	1367124	115.42096	ppb		0.00
Spiked Amount 125.000			Recovery	= 92.337%			
64) 2,4,6-Tribromophenol(S)	9.48	330	513418	252.54224	ppb		0.00
Spiked Amount 250.000			Recovery	= 101.017%			
82) Terphenyl-D14(S)	12.15	244	2168912	135.44474	ppb		0.00
Spiked Amount 125.000			Recovery	= 108.356%			
Target Compounds							Qvalue
2) 1,4-Dioxane	1.80	58	7007	6.80621			81
3) n-Nitrosodimethylamine	2.03	42	99562	62.56039	ppb		94
4) Pyridine	2.05	79	244956	55.03462	ppb		99
7) Phenol	4.74	94	401083	62.43472	ppb		94
8) Aniline	4.76	93	231552	45.98048	ppb		97
9) Bis (2-chloroethyl) ether	4.83	63	156179	60.16741	ppb		92
10) 2-Chlorophenol	4.89	128	318886	59.63052	ppb		98
11) 1,3-DCB	5.05	146	297297	52.01648	ppb		97
12) 1,4-DCB	5.13	146	305581	52.38143	ppb		97
13) Benzyl alcohol	5.27	108	173888	58.14776	ppb		95
14) 1,2-DCB	5.30	146	294310	53.68219	ppb		96
15) 2-Methylphenol	5.40	107	236042	59.63756	ppb		97
16) Bis (2-chloroisopropyl) et	5.42	45	211840	62.24385	ppb		96
17) Acetophenone	5.56	105	383531	55.55234	ppb		83
18) 3&4-Methylphenol	5.57	107	650258	118.30862	ppb		97
19) n-Nitrosodi-n-propylamine	5.57	70	203850	58.61855	ppb		97
20) Hexachloroethane	5.67	117	89150	43.36604	ppb		85
23) Nitrobenzene	5.74	77	296191	59.60587	ppb		90
24) Isophorone	6.01	82	500207	58.78096	ppb		95
25) 2-Nitrophenol	6.10	139	183759	61.40955	ppb	#	89
26) 2,4-Dimethylphenol	6.15	122	264157	56.50857	ppb		99
27) Benzoic acid	6.27	105	166460	54.82315	ppb		96
28) Bis (2-chloroethoxy) metha	6.26	93	331226	61.30784	ppb		98
29) 2,4-Dichlorophenol	6.37	162	272584	58.61130	ppb		94
30) 1,2,4-Trichlorobenzene	6.47	180	272330	52.54406	ppb		97
31) 3,4-Dimethylphenol	6.50	107	384742	58.91204	ppb		91
32) Naphthalene	6.55	128	885765	58.55601	ppb		99
33) 4-Chloroaniline	6.62	127	238397	37.45915	ppb		97
34) 2,6-Dichlorophenol	6.63	162	268050	58.48422	ppb		98
35) Hexachloropropene	6.65	213	107252	28.43432	ppb		98
36) Hexachlorobutadiene	6.70	225	133726	42.00992	ppb		97
37) Caprolactum	7.03	55	95798	63.25052	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y221.D Vial: 21
Acq On : 23 Oct 20 14:13 Operator: MA
Sample : 201021A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	273704	57.58358 ppb		99
39)	2-Methylnaphthalene	7.34	142	612687	60.01416 ppb		99
40)	1-Methylnaphthalene	7.45	142	596735	56.44163 ppb		98
42)	Hexachlorocyclopentadiene	7.53	237	55488	14.16995 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	313594	55.30693 ppb		98
44)	2,4,6-Trichlorophenol	7.67	196	216932	57.63545 ppb		98
45)	2,4,5-Trichlorophenol	7.72	196	234518	59.47445 ppb		98
47)	1,1'-Biphenyl	7.89	154	795427	58.84523 ppb		98
48)	2-Chloronaphthalene	7.91	162	618017	57.80770 ppb		96
49)	2-Nitroaniline	8.03	65	149220	55.94547 ppb		92
50)	Dimethyl phthalate	8.25	163	780100	60.98524 ppb		98
51)	2,6-DNT	8.31	165	176086	61.96316 ppb	#	78
52)	Acenaphthylene	8.38	152	934792	56.99613 ppb		100
53)	3-Nitroaniline	8.03	138	213163	60.51462 ppb		95
54)	Acenaphthene	8.58	154	610964	56.05986 ppb		99
55)	2,4-Dinitrophenol	8.62	184	94010	63.89283 ppb		98
56)	4-Nitrophenol	8.72	65	107932	54.39189 ppb		86
57)	Dibenzofuran	8.79	168	896117	57.72283 ppb		92
58)	2,4-DNT	8.77	165	246178	60.88639 ppb		94
59)	2,3,4,6-Tetrachlorophenol	8.93	232	196288	59.60669 ppb		99
60)	Diethyl phthalate	9.07	149	716027	57.30982 ppb		97
61)	4-Chlorophenyl phenyl ethe	9.19	204	412057	57.19697 ppb		99
62)	Fluorene	9.19	166	743261	57.88009 ppb		99
63)	4-Nitroaniline	8.50	138	142881	48.46247 ppb		89
66)	4,6-Dinitro-2-methylphenol	9.24	198	153772	57.15087 ppb	#	84
67)	Diphenyl amine	9.34	169	1122014	107.17241 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1122014	107.17241 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	554717	54.73014 ppb		98
70)	4-Bromophenyl phenyl ether	9.76	248	251708	60.78201 ppb		99
71)	Hexachlorobenzene	9.82	284	259932	58.40363 ppb	#	93
72)	Atrazine	9.96	200	106274	27.62399 ppb		96
73)	Pentachlorophenol	10.05	266	171250	56.55031 ppb		97
74)	Phenanthrene	10.30	178	1070835	57.02820 ppb		99
75)	Anthracene	10.37	178	1095227	56.12155 ppb		99
76)	Carbazol	10.55	167	1015132	57.82971 ppb		96
77)	Di-n-butylphthalate	10.98	149	1255328	59.09406 ppb		99
78)	Fluoranthene	11.68	202	1258231	57.94990 ppb	#	97
80)	Benzidine	11.86	184	121253	19.47463 ppb		96
81)	Pyrene	11.95	202	1331717	60.09556 ppb		99
83)	Butyl benzylphthalate	12.72	149	563643	61.73176 ppb		86
84)	3,3'-Dichlorobenzidine	13.33	252	69028	9.40793 ppb		97
85)	Benz (a) anthracene	13.35	228	1254684	56.22875 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.40	149	1042892	81.44891 ppb		99
87)	Chrysene	13.39	228	1283698	59.78149 ppb		99
88)	Di-n-octylphthalate	14.13	149	1382295	65.93003 ppb		96
90)	Benzo (b) fluoranthene	14.57	252	1275626	58.59839 ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1259117	59.71008 ppb		98
92)	Benzo (a) pyrene	14.99	252	1141406	57.34360 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1300804	57.88224 ppb		99
94)	Dibenz (a,h) anthracene	16.78	278	1203053	61.45159 ppb		98
95)	Benzo (g,h,i) perylene	17.25	276	1162557	59.54796 ppb		100

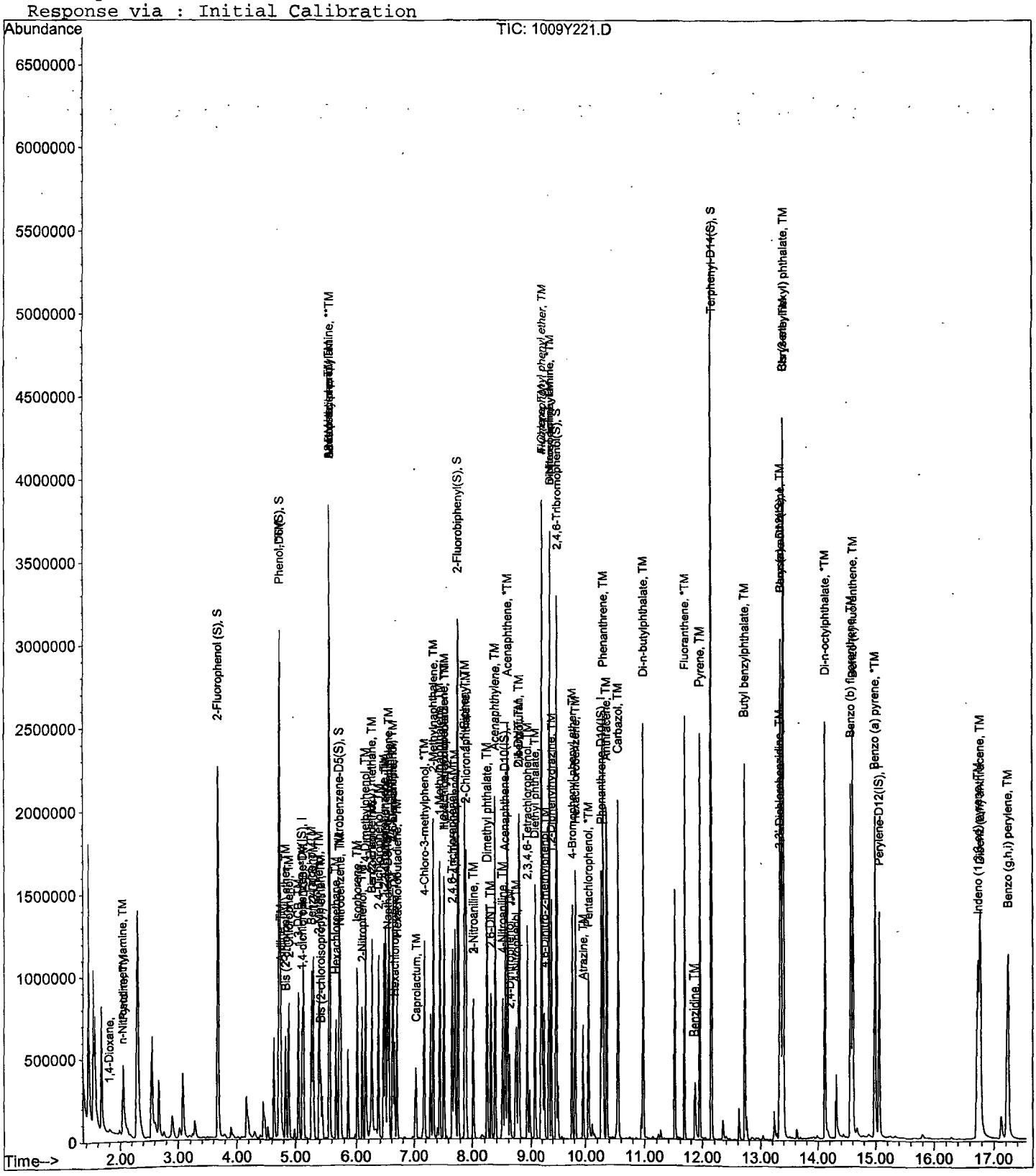
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y221.D Vial: 21
Acq On : 23 Oct 20 14:13 Operator: MA
Sample : 201021A LCSD-1 1/800 Inst : Yoda
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:32 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration

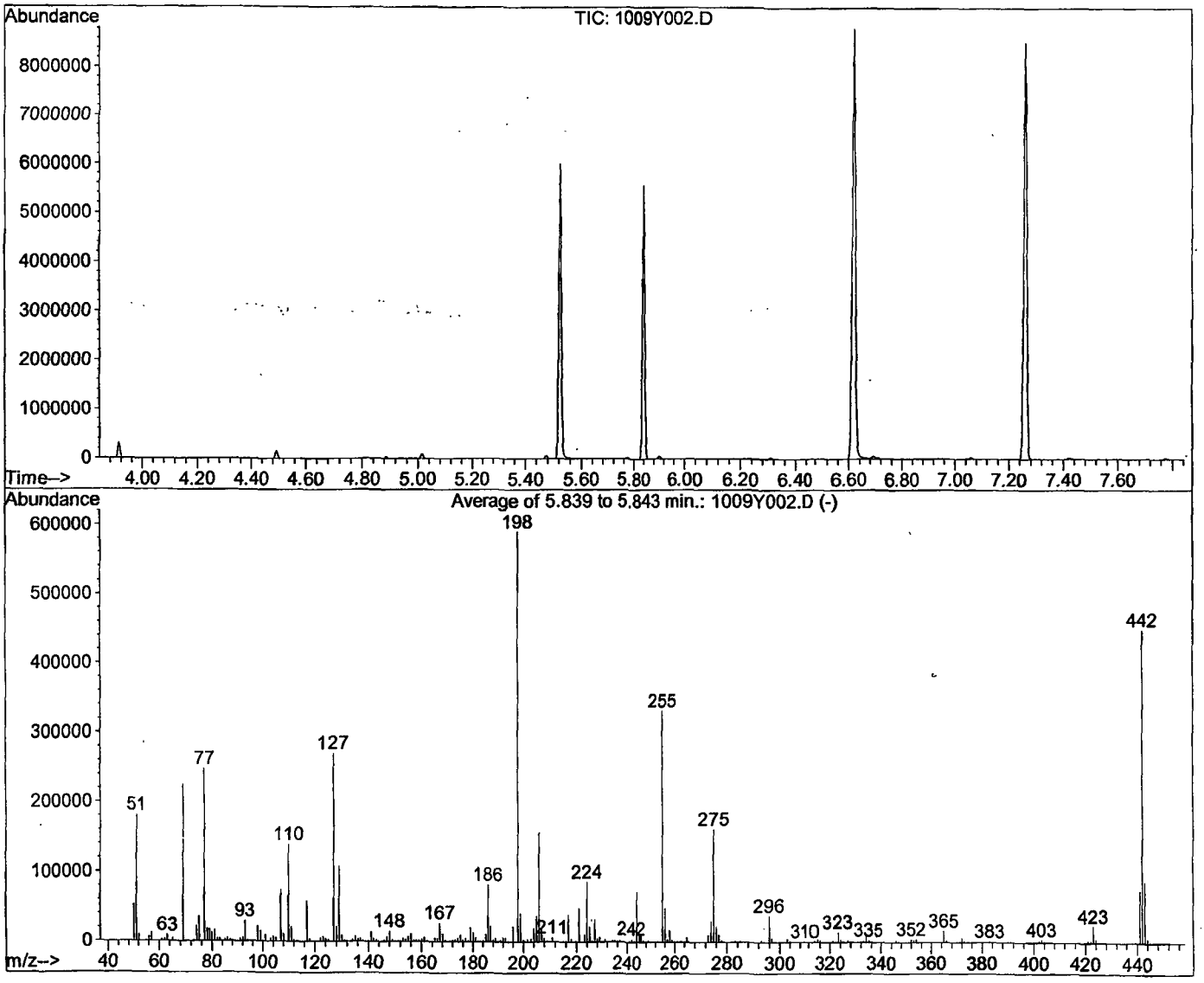


DFTPP

Data File : M:\YODA\DATA\Y201009\1009Y002.D
Acq On : 9 Oct 20 10:55
Sample : SV TUNE 10/02/20
Misc :

Vial: 2
Operator: MA
Inst : Yoda
Multiplr: 1.00

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 902, 903, 904; Background Corrected with Scan 893

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.7	181099	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.2	468	PASS
127	198	10	80	45.8	270485	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	590528	PASS
199	198	5	9	6.9	40837	PASS
275	198	10	60	27.3	160981	PASS
365	198	1	100	2.7	15871	PASS
441	442	0.01	24	16.5	74272	PASS
442	198	50	500	76.1	449344	PASS
443	442	15	24	19.4	86981	PASS

Data File Name:	**1009Y002.D**
Data File Path:	**M:\YODA\DATA\Y201009**
Operator:	**MA**
Date Acquired:	**9 Oct 20 10:55**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**2**
Instrument Name:	**Yoda**

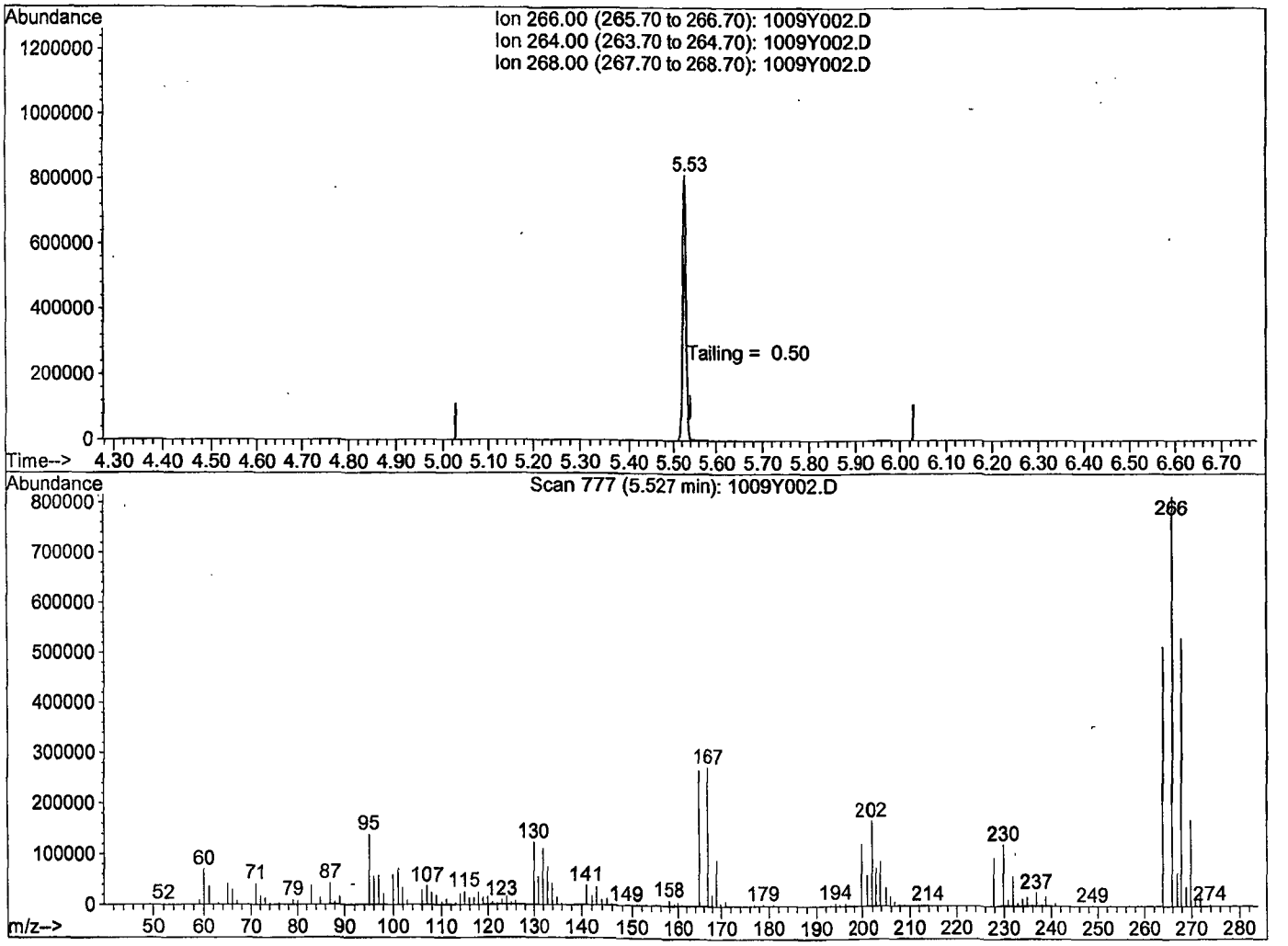
#	Name	Ret Time	Target Response
1)	DDT	7.26	61419600
2)	DDD	7.02	151178
3)	DDE	5.93	385231

Breakdown **0.87**

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y002.D Vial: 2
Acq On : 9 Oct 20 10:55 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 10:49 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration



TIC: 1009Y002.D

(5) Pentachlorophenol

5.53min 0.0000

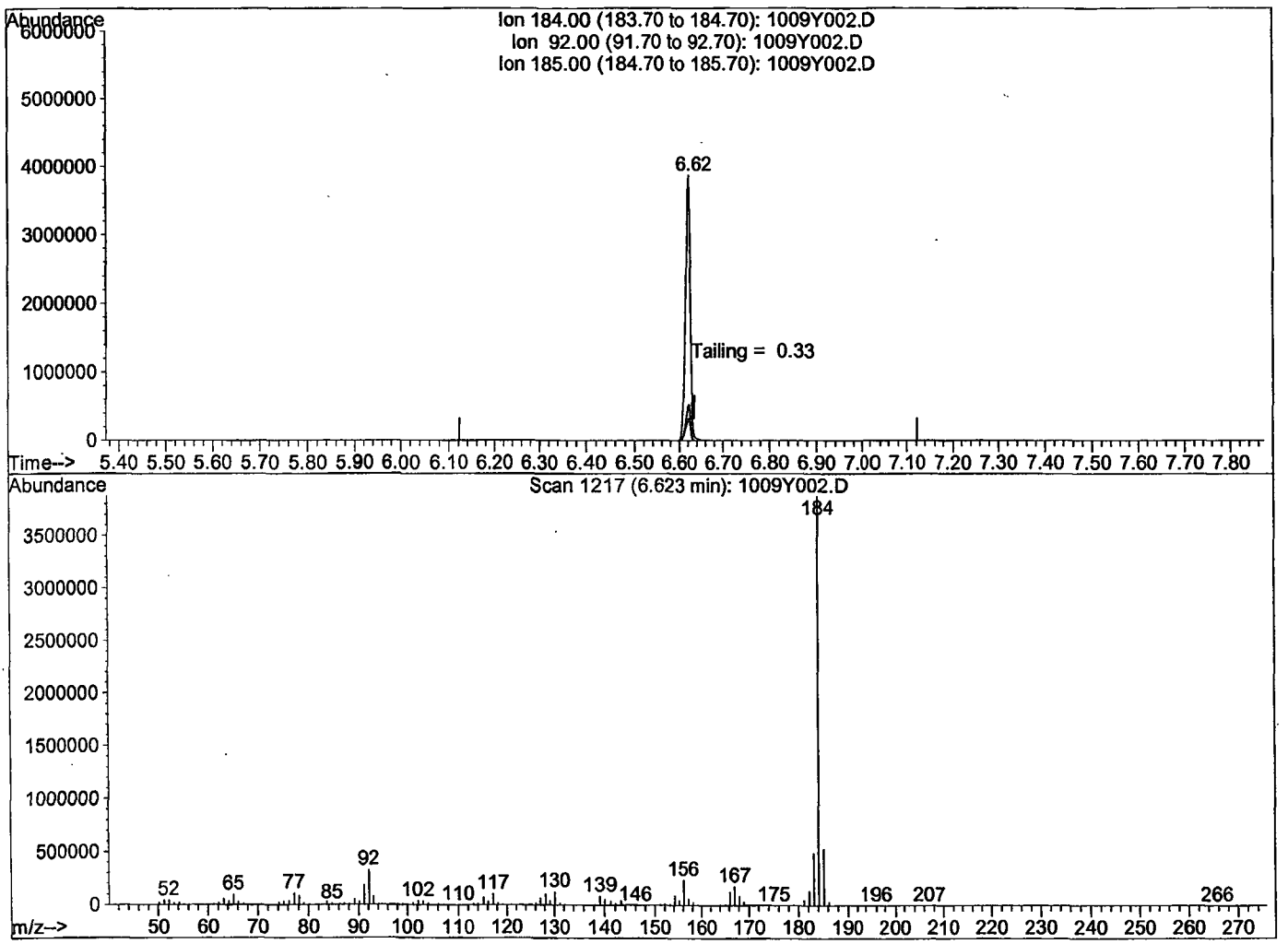
response 5042204

Ion	Exp%	Act%
266.00	100	100
264.00	63.10	64.09
268.00	65.40	65.83
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y002.D Vial: 2
Acq On : 9 Oct 20 10:55 Operator: MA
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 10:49 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration



TIC: 1009Y002.D

(6) Benzidine

6.62min 0.0000

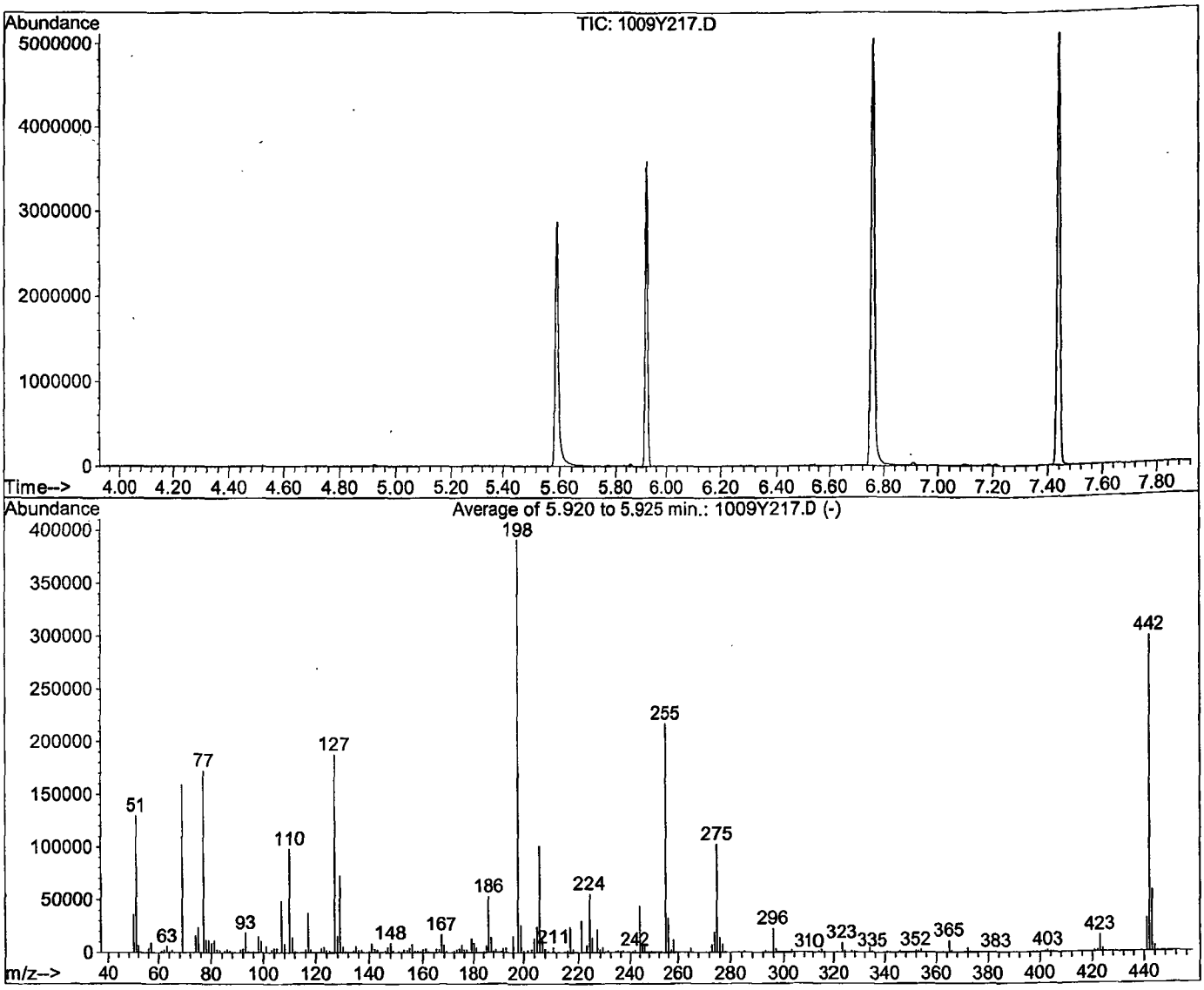
response 29089801

Ion	Exp%	Act%
184.00	100	100
92.00	8.50	8.82
185.00	13.80	13.96
0.00	0.00	0.00

DFTPP

Data File : M:\YODA\DATA\Y201009\1009Y217.D Vial: 17
Acq On : 23 Oct 20 12:41 Operator: MA
Sample : SVTUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 935, 936, 937; Background Corrected with Scan 926

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.1	129585	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.4	584	PASS
127	198	10	80	48.0	187840	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	390997	PASS
199	198	5	9	6.6	25813	PASS
275	198	10	60	26.2	102549	PASS
365	198	1	100	2.8	10891	PASS
441	442	0.01	24	10.6	31461	PASS
442	198	50	500	76.2	297856	PASS
443	442	15	24	19.6	58232	PASS

1009Y217.D Y1009.M Fri Oct 23 12:33:49 2020

Data File Name:	**1009Y217.D**
Data File Path:	**M:\YODA\DATA\Y201009**
Operator:	**MA**
Date Acquired:	**23 Oct 2020 12:41**
Method File:	**DFTPP2.M**
Sample Name:	**SVTUNE 10/02/20**
Vial Number:	**17**
Instrument Name:	**Yoda**

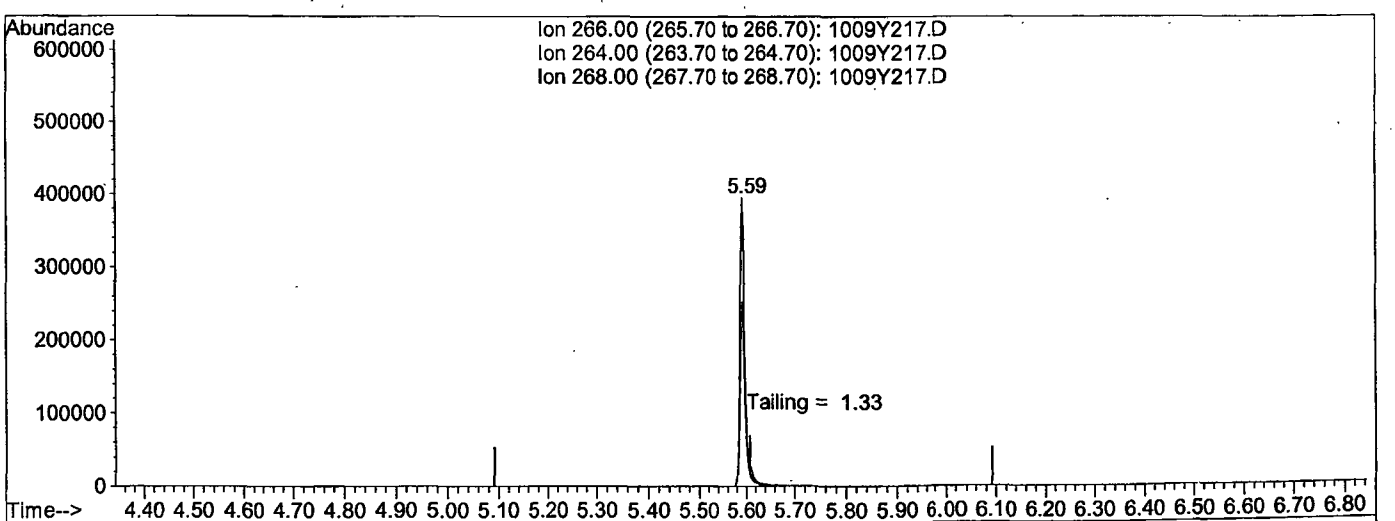
#	Name	Ret Time	Target Response
1)	DDT	7.44	40186600
2)	DDD	7.21	150397
3)	DDE	6.21	0

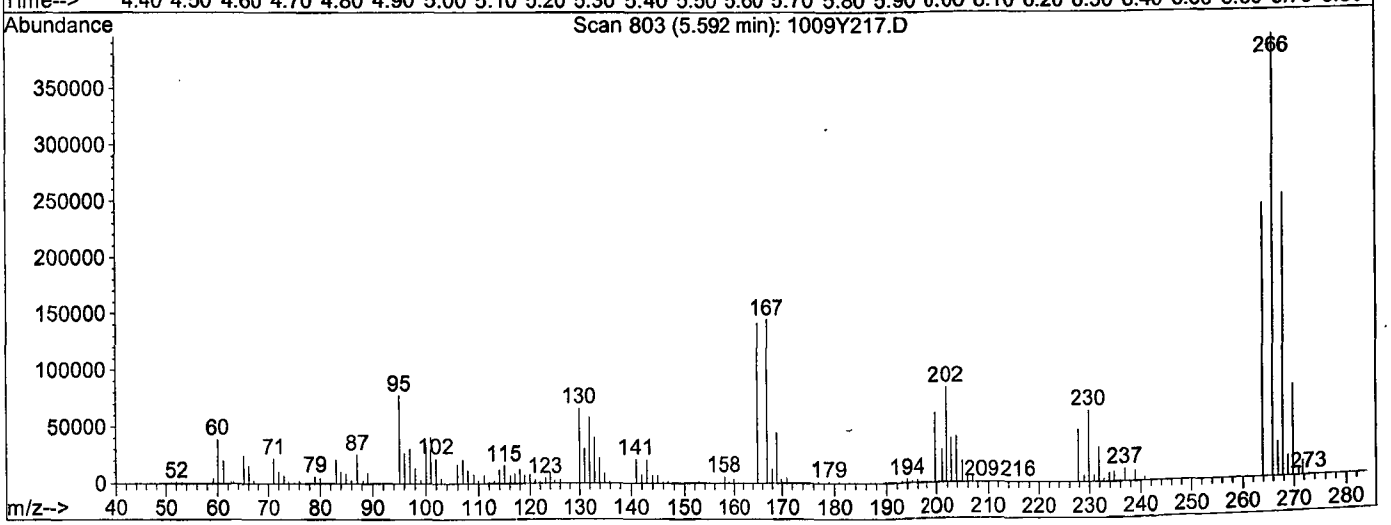
Breakdown **0.37**

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y217.D Vial: 17
Acq On : 23 Oct 20 12:41 Operator: MA
Sample : SVTUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 12:34 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 23 12:34:41 2020
Response via : Single Level Calibration





TIC: 1009Y217.D

(5) Pentachlorophenol

5.59min 0.0000

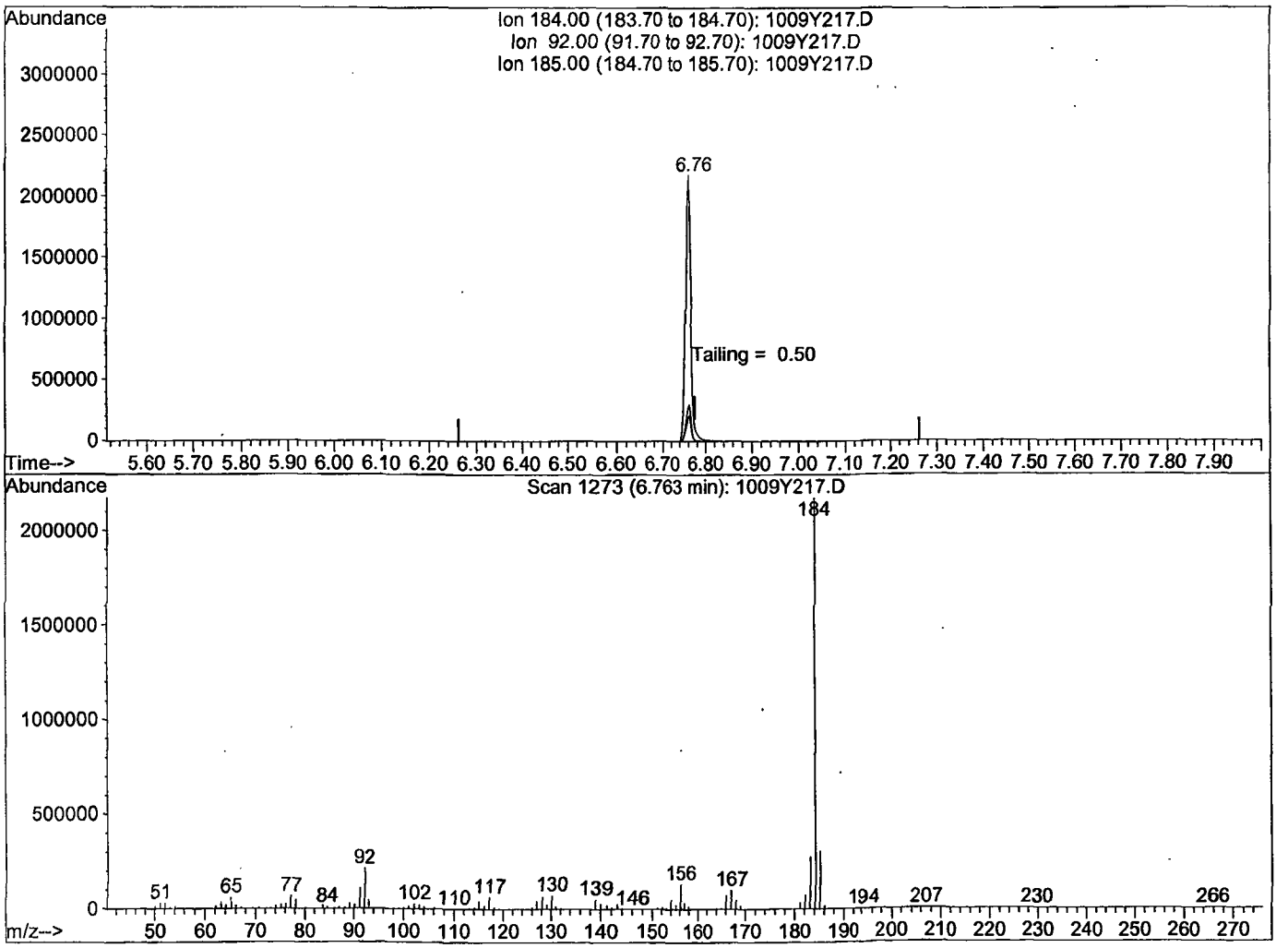
response 3020119

Ion	Exp%	Act%
266.00	100	100
264.00	61.70	62.71
268.00	63.80	63.48
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y217.D Vial: 17
Acq On : 23 Oct 20 12:41 Operator: MA
Sample : SVTUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 12:34 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 23 12:34:41 2020
Response via : Single Level Calibration



TIC: 1009Y217.D

(6) Benzidine

6.76min 0.0000

response 18909753

Ion	Exp%	Act%
184.00	100	100
92.00	9.70	9.19
185.00	14.10	13.82
0.00	0.00	0.00

Name of Final Standard 8270 Full Scan Standard Curve **Prep'd By (Initials)** CD

Prep Date 07/22/20

Exp Date 03/03/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	4 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	5 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	5 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	10 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	20 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	50 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	30 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	40 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			
8270 Stock	APPL	8270 Stock	200 ug/mL	07/20/20	07/20/21	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	03/03/20	03/03/21	50 uL			
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	2 uL			

Name of Final Standard 8270 Full Scan Second Source **Prep'd By (Initials)** CD

Prep Date 07/22/20

Exp Date 07/22/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	07/20/20	07/20/21	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	05/29/20	12/20/25	4 uL			

Name of Final Standard	8270 Stock	Prep'd By (Initials)	CD
Prep Date	07/20/20		
Exp Date	07/20/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	041720-50312	07/20/21	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	042820-50317	07/20/21	1.0 mL	"	"	200 ug/mL
10004	Absolute	10004	2000	103119-50322	07/20/21	1.0 mL	"	"	200 ug/mL
10005	Absolute	10005	2000	031618-50362	07/20/21	1.0 mL	"	"	200 ug/mL
10006	Absolute	10006	2000	050420-50327	07/20/21	1.0 mL	"	"	200 ug/mL
10007	Absolute	10007	2000	060118-50332	07/20/21	1.0 mL	"	"	200 ug/mL
10018	Absolute	10018	2000	022620-50337	07/20/21	1.0 mL	"	"	200 ug/mL
70023	Absolute	70023	1000	112119-50342	07/20/21	1.0 mL	"	"	100 ug/mL
82705	Absolute	82705	2000	060620-50352	07/20/21	1.0 mL	"	"	200 ug/mL
94552	Absolute	94552	various	032520-50356	07/20/21	1.0 mL	"	"	various

Name of Final Standard	8270 2nd Source Stock	Prep'd By (Initials)	CD
Prep Date	07/20/20		
Exp Date	01/17/21		

Initial Standard Information						Final Standard Information			
Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39204	07/20/21	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	041619-50074	07/20/21	1.0 mL	"	"	200 ug/mL
10004	Absolute	10004	2000	071618-50210	07/20/21	1.0 mL	"	"	200 ug/mL
10005	Absolute	10005	2000	011620-49804	07/20/21	1.0 mL	"	"	200 ug/mL
10006	Absolute	10006	2000	011718-39209	1/17/21	1.0 mL	"	"	200 ug/mL
10007	Absolute	10007	2000	011620-49809	07/20/21	1.0 mL	"	"	200 ug/mL
10018	Absolute	10018	2000	091919-49568	07/20/21	1.0 mL	"	"	200 ug/mL
70023	Absolute	70023	1000	051618-39216	07/20/21	1.0 mL	"	"	100 ug/mL
82705	Absolute	82705	2000	081418-50071	07/20/21	1.0 mL	"	"	200 ug/mL
94552	Absolute	94552	various	053119-50061	07/20/21	1.0 mL	"	"	various

Name of Final Standard	8270 Working Surrogate Stock	Prep'd By (Initials)	JP
Prep Date	03/03/20		
Exp Date	03/03/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Surrogate Stock	APPL	8270 Surrogate Stock	2000:1000 ug/mL	03/03/20	03/03/21	1.5 mL	7.5 mL	MC DW717.6 mL	400:200 ug/mL

8270 Internal Standard Ampules

Name of Final Standard	(4)
Prep Date	05/29/20
Exp Date	12/31/25

Prep'd By (Initials): MA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile Internal Standard	Restek	31206	2000 ug/mL	AO157142-49996to49999	12/31/25	3 mL	3 mL	NA	2000ug/mL

Name of Final Standard	8270 Full Scan Spike	Prep'd By (Initials)	CD
Prep Date	08/19/20		
Exp Date	09/06/20		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	(or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	051018-40533, 40534	05/10/21	2.0 mL	80 mL	Methanol Lot# 235140	50 ug/mL
10002	Absolute	10002	2000	090919-49813 042820-50313	09/09/22 04/28/23	2.0 mL	"	"	50 ug/mL
10004	Absolute	10004	2000	051018-39197, 39198	05/10/21	2.0 mL	"	"	50 ug/mL
10005	Absolute	10005	2000	032018-49803 031618-50358	03/20/23 3/16/23	2.0 mL	"	"	50 ug/mL
10006	Absolute	10006	2000	011718-39209, 39210	01/17/21	2.0 mL	"	"	50 ug/mL
10007	Absolute	10007	2000	080116-49808 060118-50328	08/01/21 06/01/23	2.0 mL	"	"	50 ug/mL
10018	Absolute	10018	2000	030216-38196, 98197	03/02/21	2.0 mL	"	"	50 ug/mL
70023	Absolute	70023	1000	112119-50338, 49825	11/21/24	2.0 mL	"	"	25 ug/mL
82705	Absolute	82705	2000	090617-40540 081418-50069	09/06/20 08/14/21	2.0 mL	"	"	50 ug/mL
94552	Absolute	94552	various	032520-50357, 50057	03/25/22	2.0 mL	"	"	various

Name of Final Standard	8270 Surrogate	Prep'd By (Initials)	CD
Prep Date	05/11/20		
Exp Date	05/11/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0158618-50005,50007	03/31/28	20 mL	1000 mL	MeOH:Acetone 2:1	200 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0158684-50001,50002,50003,500011	02/28/26	20 mL			100 ug/mL

Name of Final Standard	8270 Surrogate	Prep'd By (Initials)	MA
Prep Date	10/06/20		
Exp Date	10/06/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0158618-50006, A0152714-49436	09/30/27	20 mL	200 mL	Acetone246130/ MC59353 1:1	1000 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0158684-50244,5024550248,50004	02/28/28	20 mL			500 ug/mL

Use 0.2ml in extraction.

Name of Final Standard	8270 Spike	Prep'd By (Initials)	MA
Prep Date	10/06/20		
Exp Date	10/06/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
10001	Absolute	10001	2000	041720-50309,50311	04/17/23	2.0 mL	80 mL	Acetone Lot#,0246130	50 ug/mL
10002	Absolute	10002	2000	042820-50646,50647	04/28/23	2.0 mL			50 ug/mL
10004	Absolute	10004	2000	103119-50319,50321	10/31/24	2.0 mL			50 ug/mL
10005	Absolute	10005	2000	011620-50671,50672	01/16/25	2.0 mL			50 ug/mL
10006	Absolute	10006	2000	050420-50324,50325	05/04/23	2.0 mL			50 ug/mL
10007	Absolute	10007	2000	060118-50066,50067	06/01/23	2.0 mL			50 ug/mL
10018	Absolute	10018	2000	022620-50334,50687	02/26/25	2.0 mL			50 ug/mL
70023	Absolute	70023	1000	112119-50691,50692	11/21/24	2.0 mL			25 ug/mL
82705	Absolute	82705	2000	050620-50349,50350	05/06/23	2.0 mL			50 ug/mL
94552	Absolute	94552	various	032520-50711,50712	03/25/22	2.0 mL			various

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	201021A	Extraction Method	LIQ003	Units	mL

Spiked ID 1	8270T Spike 10/6/20 ex 10/6/21		Surrogate ID 1	8270 Surrogate 10/6/20 ex 10/6/21	
Spiked ID 2	Sim Spike 9/11/20 ex 9/11/21		Surrogate ID 2	SIM Surrogate 8/11/20 ex 8/11/21	
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/21/20 12:00	
Spiked ID 8			Ext. End Time:	10/23/20 10:35	
			GC Requires Extract By:		

pH1	2	10/21/20 12:10	Water Bath Temp 1 °C	EWB5 75/74.1 °
pH2	14	10/22/20 11:05	Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: **Date** 10/21/20 12:00:00 PM **Witnessed By:** 10/21/20 12:00 **Date** 10/23/20 1:59:16 PM

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201021A Blk				0.2,0.05	1,2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
2	201021A LCS-1		1	1	0.2	1	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
3	201021A LCS-2		0.125	2	0.050	2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
4	201021A LCSD-1		1	1	0.2	1	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
5	201021A LCSD-2		0.125	2	0.050	2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
6	BA20268	BA20268W15			0.2,0.05	1,2	800	1	2/1	10/21/20 12:00	93765
						equip	EWB5				
7	BA20486	BA20486W13			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93803
						equip	EWB5				
8	BA20539 MS-1	BA20539W28	1	1	0.2	1	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
9	BA20539 MSD-1	BA20539W27	1	1	0.2	1	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
10	BA20539 MS-2	BA20539W26	0.125	2	0.05	2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
11	BA20539 MSD-2	BA20539W24	0.125	2	0.05	2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
12	BA20539	BA20539W34			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
13	BA20541	BA20541W11			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
14	BA20542	BA20542W13			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
15	BA20544	BA20544W15			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				

Solvent and Lot#	
PH Strips	.HC904495
Dichloromethane (DCM)	.60127
1+1 H2SO4	.231834
10N NaOH	.10/22/20
Filter Paper	.400178
Na2SO4	.2019070279

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	MA
Date	10/26/20
Time	12:00
Refrigerator	GC_C

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified	10/26/20 12:41:37 PM

Reviewed By: MA **Date** 10/26/20

Injection Log

Directory: M:\YODA\DATA\Y201009\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	1009Y002.D	1	SV TUNE 10/02/20		9 Oct 20 10:55
3	1009Y003.D	1	4ug/mL 8270 7/22/20		9 Oct 20 11:14
4	1009Y004.D	1	5ug/mL 8270 7/22/20		9 Oct 20 11:40
5	1009Y005.D	1	10ug/mL 8270 7/22/20		9 Oct 20 12:05
6	1009Y006.D	1	20ug/mL 8270 7/22/20		9 Oct 20 12:31
7	1009Y007.D	1	40ug/mL 8270 7/22/20		9 Oct 20 12:56
8	1009Y008.D	1	50ug/mL 8270 7/22/20		9 Oct 20 13:22
9	1009Y009.D	1	60ug/mL 8270 7/22/20		9 Oct 20 13:48
10	1009Y010.D	1	80ug/mL 8270 7/22/20		9 Oct 20 14:13
11	1009Y011.D	1	100ug/mL 8270 7/22/20		9 Oct 20 14:38
12	1009Y012.D	1	SS 50ug/mL 8270 7/22/20		9 Oct 20 15:04
17	1009Y217.D	1	SVTUNE 10/02/20		23 Oct 20 12:41
18	1009Y218.D	1	50ug/mL 8270 7/22/20 (6)		23 Oct 20 12:56
19	1009Y219.D	1.25	201021A BLK 1/800		23 Oct 20 13:21
20	1009Y220.D	1.25	201021A LCS-1 1/800		23 Oct 20 13:47
21	1009Y221.D	1.25	201021A LCSD-1 1/800		23 Oct 20 14:13
23	1009Y223.D	1.25	BA20486W13 1/800		23 Oct 20 15:04
36	1009Y236.D	1	50ug/mL 8270 8/13/20 (2)		23 Oct 20 20:35

ORGANICS

Calibration Data

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/16/20
Matrix: Instrument: Linus
Initials: MA

		Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD	Type	r^2	Q	MRF
			1016L003.D	1016L004.D	1016L005.D	1016L006.D	1016L007.D	1016L008.D	1016L009.D	1016L010.D								
1	I	Napthalene-D8(IS)																
2	TM	Naphthalene	1.072	1.011	0.9676	1.022	0.9167	0.9139	0.9182	0.8593			0.96	7.4	TM			0.700
3	S	2-Methylnaphthalene-D10 (2M	1.176	1.100	1.058	1.081	1.179	1.100	1.103	1.115			1.1	3.9	S			
4	TM	2-Methylnaphthalene	0.7140	0.6668	0.6549	0.6735	0.6684	0.6295	0.6063	0.5873			0.65	6.2	TM			0.400
5	TM	1-Methylnaphthalene	0.7055	0.6769	0.6442	0.6665	0.6278	0.6160	0.6081	0.5750			0.64	6.6	TM			
6	I	Acenaphthene-D10(IS)																
7	TM	Acenaphthylene	4.020	3.698	3.609	3.849	3.853	3.617	3.693	3.090			3.7	7.5	TM			0.900
8	*TM	Acenaphthene	1.255	1.178	1.070	1.129	1.081	1.066	1.067	0.8941			1.1	9.6	*TM			0.900
9	TM	Fluorene	1.425	1.326	1.361	1.398	1.361	1.378	1.359	1.238			1.4	4.1	TM			0.900
10	I	Phenanthrene-D10(IS)																
11	TM	Phenanthrene	1.106	1.072	1.058	1.094	1.014	1.075	0.8950	0.8282			1.0	10.0	TM			0.700
12	TM	Anthracene	1.004	0.9774	0.9456	0.9873	0.9650	0.9772	0.8354	0.7568			0.93	9.4	TM			0.700
13	S	Fluoranthene-D10 (FRT)	1.325	1.172	1.200	1.205	1.196	1.284	1.270	1.255			1.2	4.3	S			
14	*TM	Fluoranthene	1.487	1.413	1.446	1.478	1.433	1.459	1.208	1.113			1.4	10	*TM			0.600
15	I	Chrysene-D12(IS)																
16	TM	Pyrene	1.113	1.074	1.065	1.102	1.058	1.049	0.9360	0.9508			1.0	6.3	TM			0.600
17	TM	Benz (a) anthracene	1.122	1.058	1.018	1.026	1.036	1.020	0.9993	0.9390			1.0	5.0	TM			0.800
18	TM	Chrysene	1.164	1.114	1.105	1.100	1.015	1.027	0.9314	0.8998			1.0	8.9	TM			0.700
19	TM	Indeno (1,2,3-cd) pyrene	1.282	1.197	1.190	1.247	1.262	1.263	1.262	1.253			1.2	2.7	TM			0.500
20	I	Perylene-D12(IS)																
21	TM	Benzo (b) fluoranthene	0.9987	0.9431	0.8304	0.8853	0.9907	1.093	1.028	0.9179			0.96	8.7	TM			0.700
22	TM	Benzo (k) fluoranthene	1.083	1.006	1.104	1.167	1.140	1.122	0.9848	0.9491			1.1	7.4	TM			0.700
23	*TM	Benzo (a) pyrene	0.8612	0.7892	0.8030	0.9158	0.9626	0.9531	0.9222	0.8779			0.89	7.3	*TM			0.700
24	TM	Dibenz (a,h) anthracene	0.9238	0.8974	0.9091	0.9540	1.001	1.033	0.9122	1.001			0.95	5.4	TM			0.400
25	TM	Benzo (g,h,i) perylene	1.019	0.9534	0.9591	0.9979	1.017	1.046	0.9207	0.9822			0.99	4.2	TM			0.500
26																		
27																		
28																		
29																		
30																		
31																		
32																		
33																		
34																		
35																		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L003.D Vial: 3
Acq On : 16 Oct 20 10:37 Operator: MA
Sample : 0.1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	44084	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	24595	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	48782	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.12	240	67228	2.50000	ppb		-0.01
20) Perylene-D12(IS)	13.56	264	75125	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	1037	0.05495	ppb		0.00
Spiked Amount 5.000			Recovery = 1.100%				
13) Fluoranthene-D10 (FRT)	9.38	212	1293	0.05685	ppb		0.00
Spiked Amount 5.000			Recovery = 1.140%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	1890	0.11284	ppb		99
4) 2-Methylnaphthalene	5.08	142	1259	0.11717	ppb		99
5) 1-Methylnaphthalene	5.19	142	1244	0.11294	ppb		100
7) Acenaphthylene	6.11	152	3955	0.11795	ppb		99
8) Acenaphthene	6.31	154	1235	0.11635	ppb		99
9) Fluorene	6.90	166	1402	0.11107	ppb		99
11) Phenanthrene	8.02	178	2158	0.11070	ppb		99
12) Anthracene	8.08	178	1960	0.11301	ppb		99
14) Fluoranthene	9.40	202	2902	0.11366	ppb		98
16) Pyrene	9.65	202	2993	0.11038	ppb	#	82
17) Benz (a) anthracene	11.11	228	3017	0.11408	ppb		100
18) Chrysene	11.16	228	3131	0.11082	ppb		98
19) Indeno (1,2,3-cd) pyrene	15.03	276	3448	0.10423	ppb	#	93
21) Benzo (b) fluoranthene	12.92	252	3001	0.11051	ppb	#	98
22) Benzo (k) fluoranthene	12.98	252	3253	0.09995	ppb		98
23) Benzo (a) pyrene	13.46	252	2588	0.10136	ppb		98
24) Dibenz (a,h) anthracene	15.07	278	2776	0.09615	ppb	#	96
25) Benzo (g,h,i) perylene	15.40	276	3061	0.10254	ppb		98

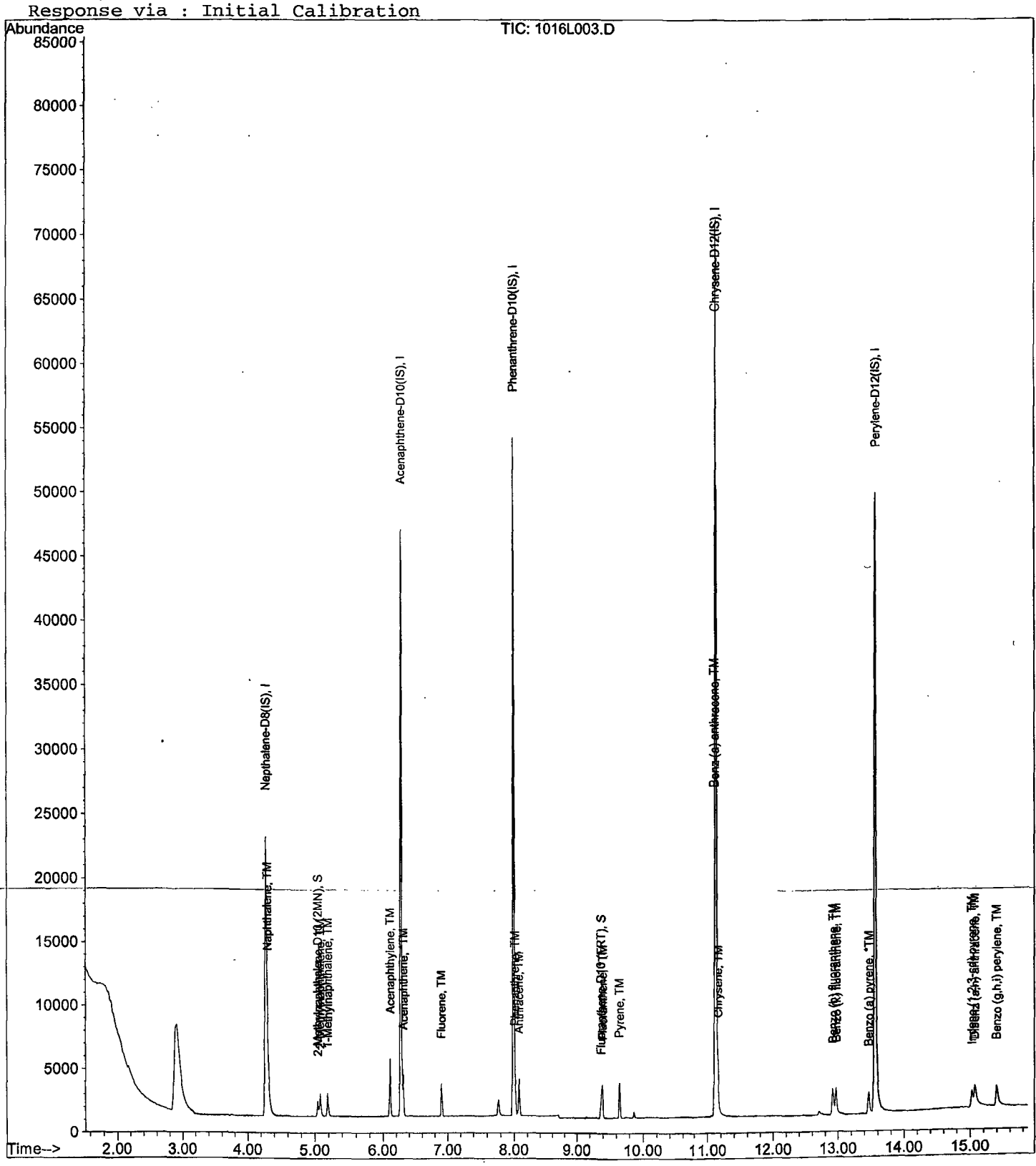
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L003.D Vial: 3
Acq On : 16 Oct 20 10:37 Operator: MA
Sample : 0.1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L004.D Vial: 4
Acq On : 16 Oct 20 10:59 Operator: MA
Sample : 0.2 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	58321	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	32526	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	62347	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.12	240	83952	2.50000	ppb		-0.01
20) Perylene-D12(IS)	13.56	264	93534	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	2566	0.10278	ppb		0.00
Spiked Amount 5.000			Recovery =	2.060%			
13) Fluoranthene-D10 (FRT)	9.38	212	2923	0.10055	ppb		0.00
Spiked Amount 5.000			Recovery =	2.020%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	4715	0.21277	ppb		99
4) 2-Methylnaphthalene	5.08	142	3111	0.21884	ppb		99
5) 1-Methylnaphthalene	5.19	142	3158	0.21671	ppb		100
7) Acenaphthylene	6.11	152	9622	0.21698	ppb		100
8) Acenaphthene	6.31	154	3066	0.21841	ppb		99
9) Fluorene	6.90	166	3451	0.20674	ppb		96
11) Phenanthrene	8.01	178	5348	0.21466	ppb		100
12) Anthracene	8.08	178	4875	0.21993	ppb		99
14) Fluoranthene	9.40	202	7047	0.21596	ppb		98
16) Pyrene	9.66	202	7210	0.21292	ppb		99
17) Benz (a) anthracene	11.11	228	7107	0.21520	ppb		99
18) Chrysene	11.16	228	7480	0.21202	ppb		99
19) Indeno (1,2,3-cd) pyrene	15.03	276	8042	0.19468	ppb	#	90
21) Benzo (b) fluoranthene	12.92	252	7057	0.20872	ppb		99
22) Benzo (k) fluoranthene	12.98	252	7525	0.18570	ppb		98
23) Benzo (a) pyrene	13.46	252	5905	0.18575	ppb		98
24) Dibenz (a,h) anthracene	15.07	278	6715	0.18680	ppb	#	97
25) Benzo (g,h,i) perylene	15.40	276	7134	0.19194	ppb		96

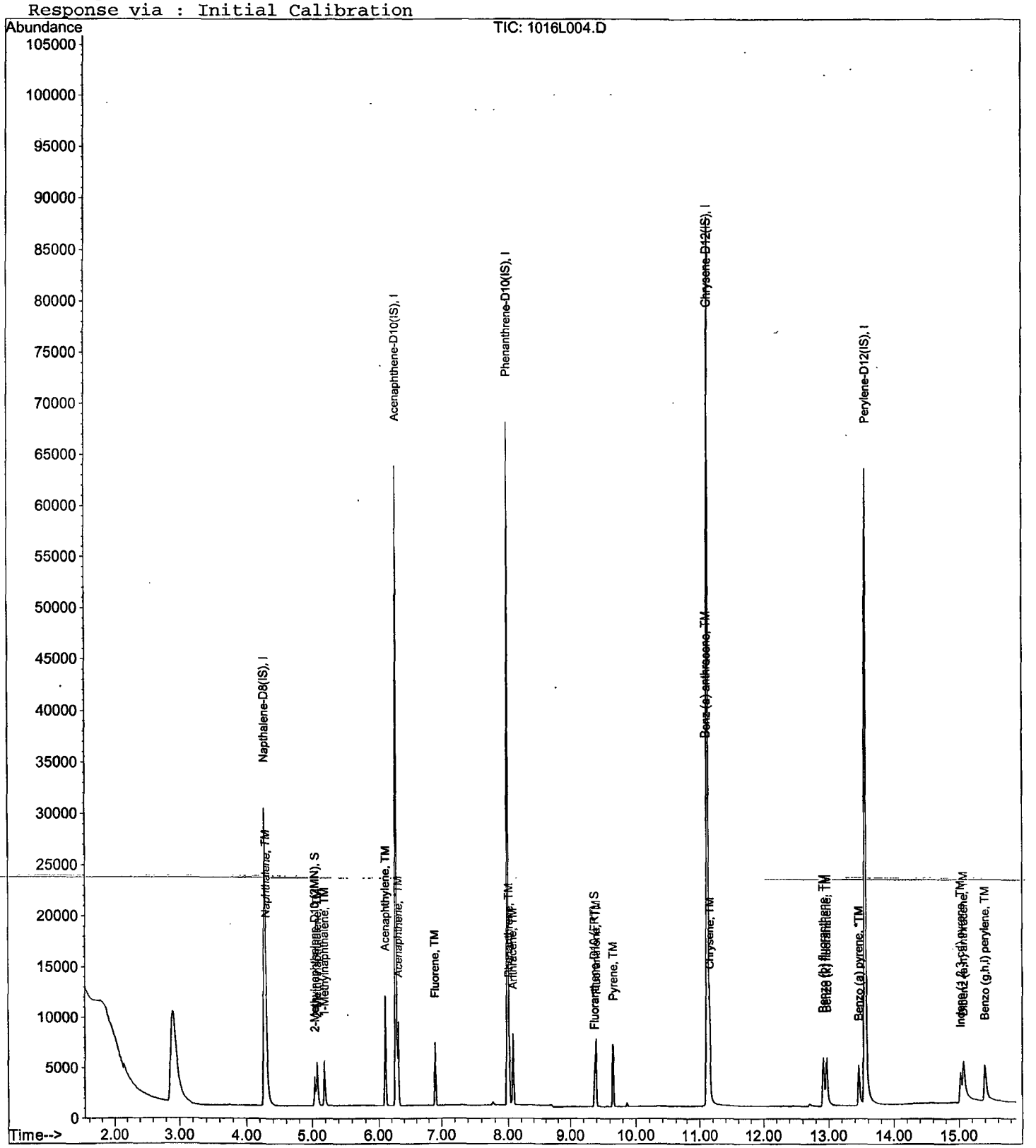
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L004.D Vial: 4
Acq On : 16 Oct 20 10:59 Operator: MA
Sample : 0.2 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L005.D Vial: 5
Acq On : 16 Oct 20 11:21 Operator: MA
Sample : 0.5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	44248	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	24849	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	46124	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.12	240	63984	2.50000 ppb		-0.01
20) Perylene-D12(IS)	13.55	264	70650	2.50000 ppb		-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	4681	0.24712 ppb		0.00
Spiked Amount 5.000			Recovery = 4.940%			
13) Fluoranthene-D10 (FRT)	9.38	212	5535	0.25737 ppb		0.00
Spiked Amount 5.000			Recovery = 5.140%			
Target Compounds						Qvalue
2) Naphthalene	4.30	128	8563	0.50933 ppb		99
4) 2-Methylnaphthalene	5.08	142	5796	0.53739 ppb		100
5) 1-Methylnaphthalene	5.19	142	5701	0.51565 ppb		98
7) Acenaphthylene	6.11	152	17937	0.52946 ppb		100
8) Acenaphthene	6.31	154	5316	0.49569 ppb		100
9) Fluorene	6.90	166	6766	0.53055 ppb		96
11) Phenanthrene	8.01	178	9757	0.52937 ppb		99
12) Anthracene	8.08	178	8723	0.53195 ppb		99
14) Fluoranthene	9.40	202	13338	0.55251 ppb		98
16) Pyrene	9.65	202	13623	0.52786 ppb	#	82
17) Benz (a) anthracene	11.11	228	13025	0.51748 ppb		99
18) Chrysene	11.15	228	14146	0.52610 ppb	#	95
19) Indeno (1,2,3-cd) pyrene	15.03	276	15224	0.48356 ppb		92
21) Benzo (b) fluoranthene	12.92	252	11733	0.45943 ppb		98
22) Benzo (k) fluoranthene	12.98	252	15599	0.50963 ppb		98
23) Benzo (a) pyrene	13.46	252	11347	0.47256 ppb		99
24) Dibenz (a,h) anthracene	15.07	278	12845	0.47308 ppb	#	97
25) Benzo (g,h,i) perylene	15.40	276	13552	0.48272 ppb		98

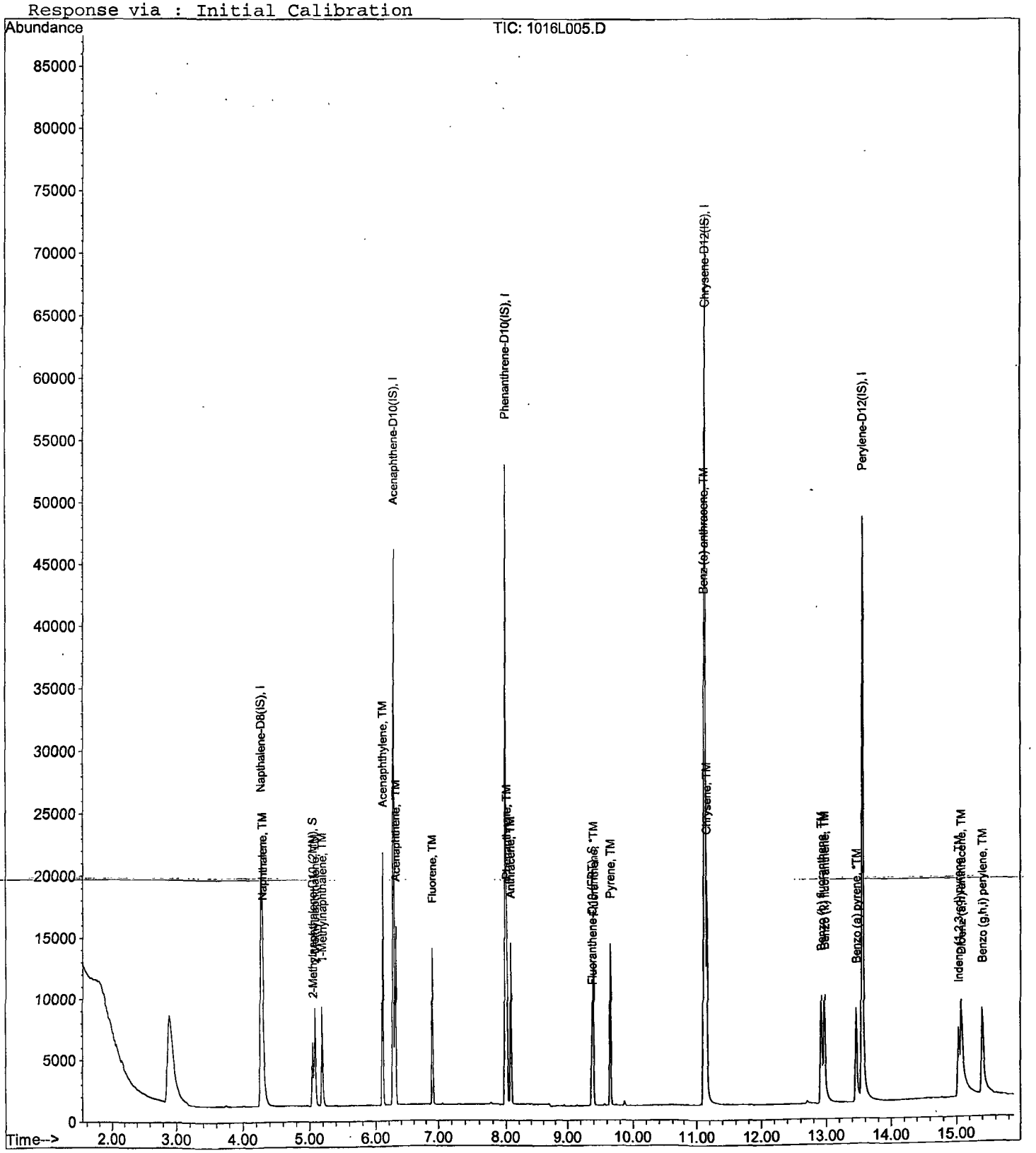
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L005.D Vial: 5
Acq On : 16 Oct 20 11:21 Operator: MA
Sample : 0.5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L006.D Vial: 6
Acq On : 16 Oct 20 11:43 Operator: MA
Sample : 1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	49012	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	26755	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	54274	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.12	240	71691	2.50000 ppb		-0.01
20) Perylene-D12(IS)	13.55	264	78644	2.50000 ppb		-0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	10597	0.50507 ppb		0.00
Spiked Amount 5.000			Recovery = 10.100%			
13) Fluoranthene-D10 (FRT)	9.38	212	13081	0.51692 ppb		0.00
Spiked Amount 5.000			Recovery = 10.340%			
Target Compounds						Qvalue
2) Naphthalene	4.30	128	20041	1.07617 ppb		100
4) 2-Methylnaphthalene	5.08	142	13203	1.10516 ppb		99
5) 1-Methylnaphthalene	5.19	142	13067	1.06701 ppb		100
7) Acenaphthylene	6.11	152	41197	1.12942 ppb		100
8) Acenaphthene	6.31	154	12084	1.04651 ppb		98
9) Fluorene	6.90	166	14961	1.08959 ppb		95
11) Phenanthrene	8.01	178	23742	1.09469 ppb		100
12) Anthracene	8.08	178	21433	1.11077 ppb		99
14) Fluoranthene	9.40	202	32091	1.12971 ppb		98
16) Pyrene	9.65	202	31599	1.09276 ppb	#	84
17) Benz (a) anthracene	11.11	228	29434	1.04369 ppb		99
18) Chrysene	11.15	228	31530	1.04656 ppb	#	96
19) Indeno (1,2,3-cd) pyrene	15.03	276	35770	1.01403 ppb	#	93
21) Benzo (b) fluoranthene	12.92	252	27848	0.97960 ppb		98
22) Benzo (k) fluoranthene	12.98	252	36719	1.07769 ppb		98
23) Benzo (a) pyrene	13.46	252	28808	1.07779 ppb		98
24) Dibenz (a,h) anthracene	15.07	278	30010	0.99291 ppb	#	96
25) Benzo (g,h,i) perylene	15.40	276	31391	1.00449 ppb		98

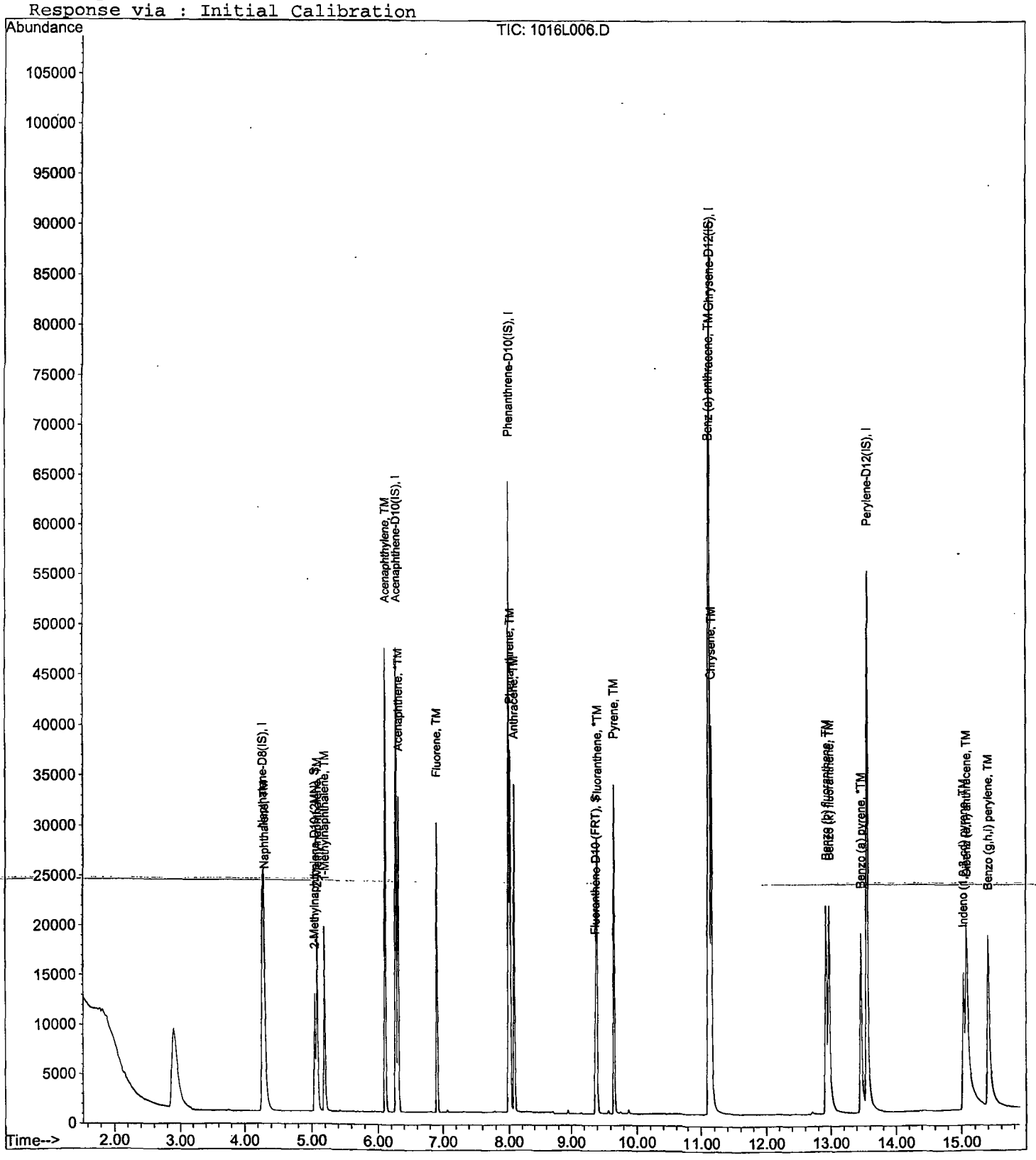
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L006.D Vial: 6
Acq On : 16 Oct 20 11:43 Operator: MA
Sample : 1 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L007.D Vial: 7
Acq On : 16 Oct 20 12:05 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	49866	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	26363	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	52853	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	72201	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	77115	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	58812	2.75507 ppb		0.00
Spiked Amount 5.000			Recovery	= 55.100%		
13) Fluoranthene-D10 (FRT)	9.38	212	63208	2.56494 ppb		0.00
Spiked Amount 5.000			Recovery	= 51.300%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	91420	4.82503 ppb		100
4) 2-Methylnaphthalene	5.08	142	66664	5.48457 ppb		100
5) 1-Methylnaphthalene	5.19	142	62616	5.02547 ppb		100
7) Acenaphthylene	6.11	152	203147	5.65209 ppb		100
8) Acenaphthene	6.31	154	57006	5.01028 ppb		100
9) Fluorene	6.90	166	71772	5.30476 ppb		100
11) Phenanthrene	8.01	178	107223	5.07675 ppb		100
12) Anthracene	8.08	178	102004	5.42852 ppb		100
14) Fluoranthene	9.40	202	151517	5.47730 ppb		100
16) Pyrene	9.66	202	152720	5.24406 ppb		100
17) Benz (a) anthracene	11.11	228	149635	5.26839 ppb		100
18) Chrysene	11.16	228	146496	4.82821 ppb		100
19) Indeno (1,2,3-cd) pyrene	15.04	276	182195	5.12848 ppb	#	100
21) Benzo (b) fluoranthene	12.93	252	152793	5.48134 ppb		100
22) Benzo (k) fluoranthene	12.98	252	175807	5.26218 ppb		100
23) Benzo (a) pyrene	13.46	252	148467	5.66469 ppb		100
24) Dibenz (a,h) anthracene	15.08	278	154350	5.20809 ppb		100
25) Benzo (g,h,i) perylene	15.41	276	156806	5.11716 ppb		100

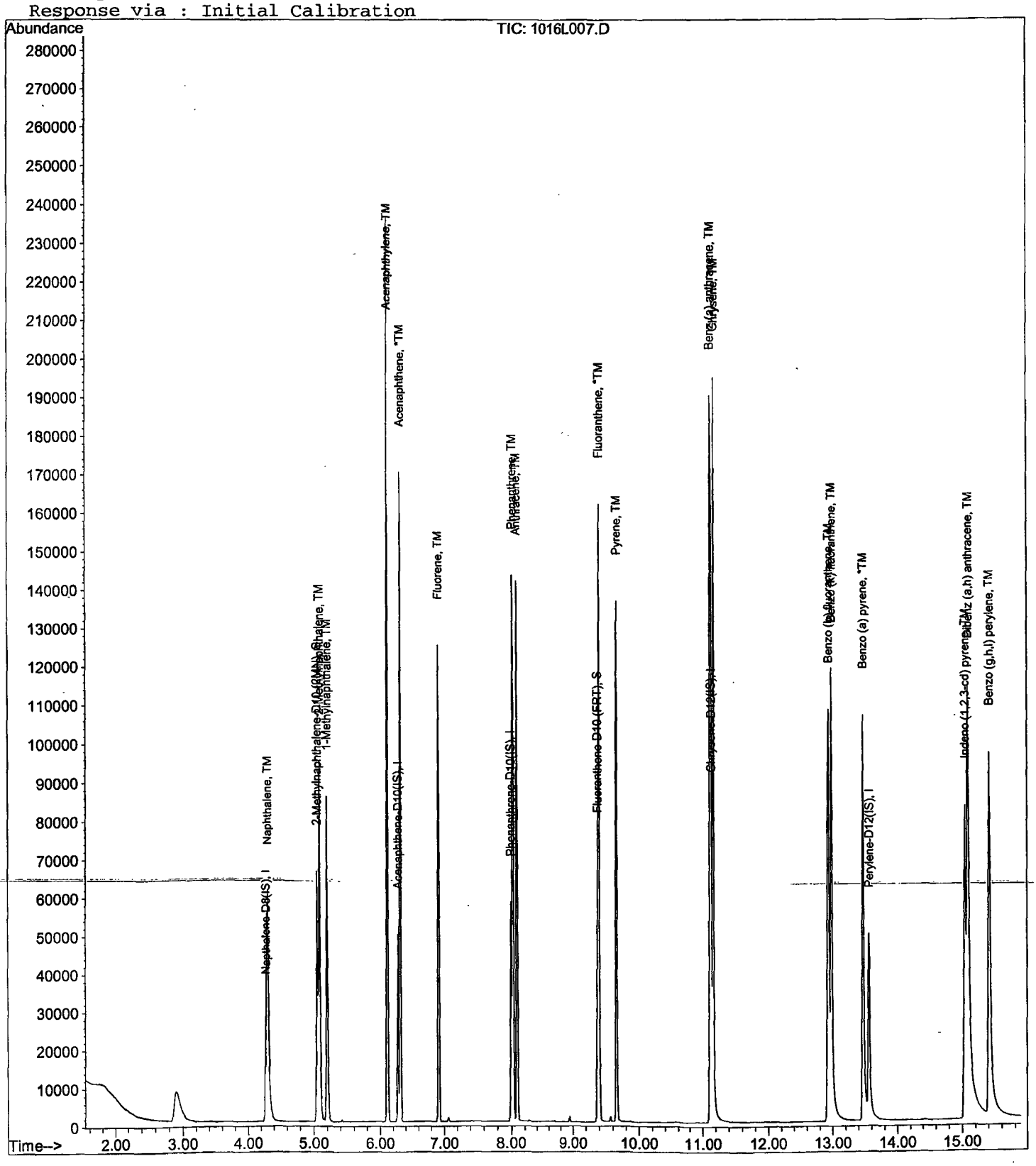
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L007.D Vial: 7
Acq On : 16 Oct 20 12:05 Operator: MA
Sample : 5 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L008.D Vial: 8
Acq On : 16 Oct 20 12:27 Operator: MA
Sample : 10 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:49:24 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	46239	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	24174	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	47454	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	66927	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	68921	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	101736	5.13969	ppb		0.00
Spiked Amount 5.000			Recovery = 102.800%				
13) Fluoranthene-D10 (FRT)	9.38	212	121907	5.50973	ppb		0.00
Spiked Amount 5.000			Recovery = 110.200%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	169029	9.62090	ppb		100
4) 2-Methylnaphthalene	5.08	142	116429	10.33020	ppb		100
5) 1-Methylnaphthalene	5.19	142	113925	9.86066	ppb		100
7) Acenaphthylene	6.11	152	349784	10.61317	ppb		100
8) Acenaphthene	6.31	154	103108	9.88280	ppb		100
9) Fluorene	6.90	166	133281	10.74300	ppb		96
11) Phenanthrene	8.03	178	203962	10.75583	ppb		97
12) Anthracene	8.09	178	185489	10.99459	ppb		96
14) Fluoranthene	9.40	202	277003	11.15286	ppb		95
16) Pyrene	9.66	202	280854	10.40385	ppb		95
17) Benz (a) anthracene	11.12	228	272999	10.36925	ppb		97
18) Chrysene	11.16	228	274840	9.77196	ppb	#	97
19) Indeno (1,2,3-cd) pyrene	15.05	276	338064	10.26581	ppb	#	97
21) Benzo (b) fluoranthene	12.93	252	301266	12.09264	ppb	#	98
22) Benzo (k) fluoranthene	12.99	252	309244	10.35662	ppb		98
23) Benzo (a) pyrene	13.48	252	262761	11.21745	ppb		98
24) Dibenz (a,h) anthracene	15.10	278	284747	10.75025	ppb		99
25) Benzo (g,h,i) perylene	15.42	276	288237	10.52455	ppb		99

(#) = qualifier out of range (m) = manual integration

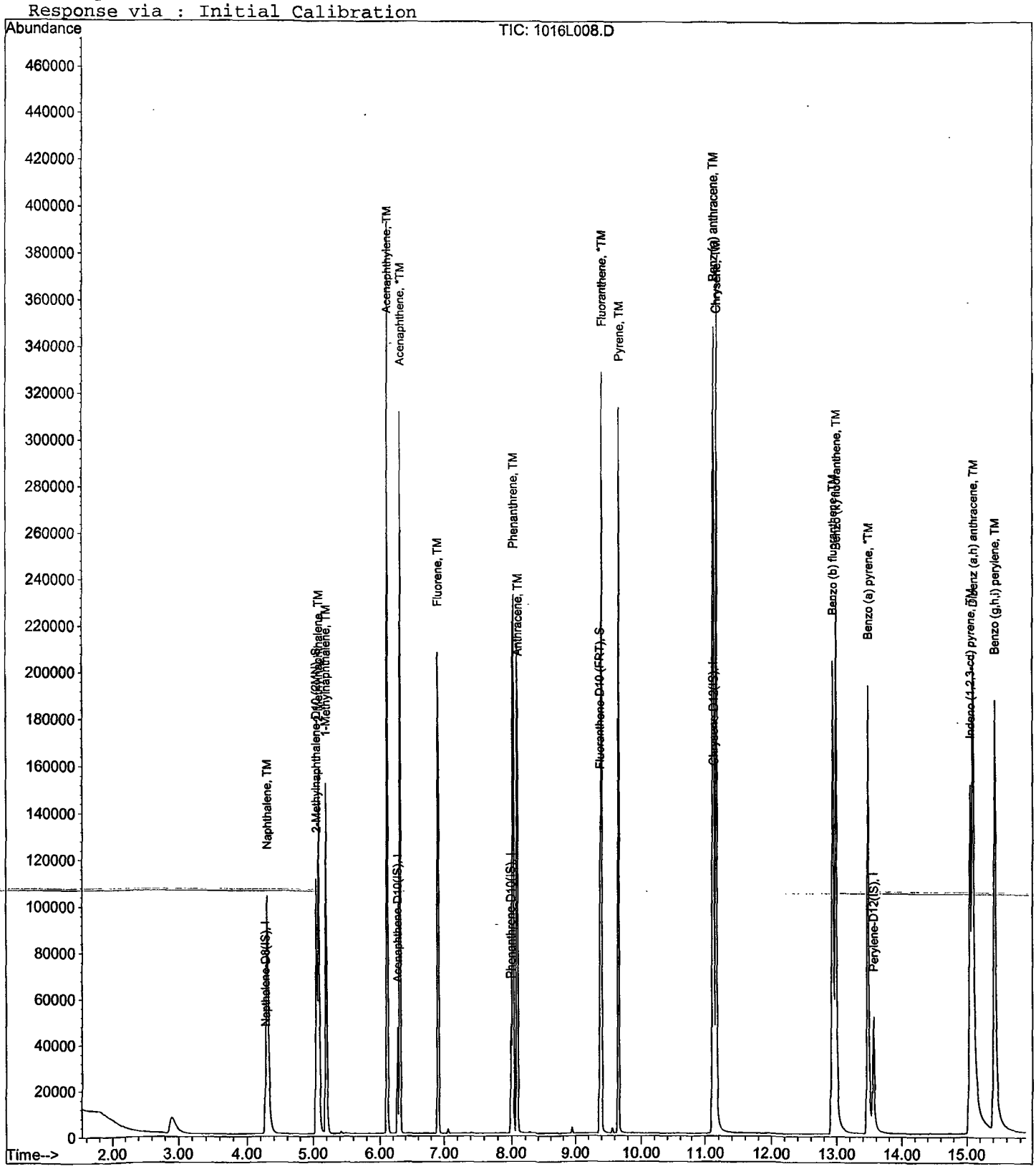
Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L008.D
Acq On : 16 Oct 20 12:27
Sample : 10 SIM 08/21/20
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 16 13:49 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L009.D Vial: 9
Acq On : 16 Oct 20 12:50 Operator: MA
Sample : 50 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:48 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:47:50 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	40530	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	20899	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	8.00	188	41652	2.50000	ppb		0.01
15) Chrysene-D12(IS)	11.14	240	56403	2.50000	ppb		0.01
20) Perylene-D12(IS)	13.57	264	65963	2.50000	ppb		0.01
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	447024	25.76472	ppb		0.00
Spiked Amount 5.000			Recovery = 515.300%				
13) Fluoranthene-D10 (FRT)	9.39	212	528902	27.23414	ppb		0.01
Spiked Amount 5.000			Recovery = 544.680%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	744322	48.33340	ppb		99
4) 2-Methylnaphthalene	5.08	142	491506	49.75173	ppb		99
5) 1-Methylnaphthalene	5.20	142	492889	48.67075	ppb		94
7) Acenaphthylene	6.12	152	1543648	54.17718	ppb		98
8) Acenaphthene	6.31	154	445953	49.44242	ppb		95
9) Fluorene	6.92	166	568152	52.97182	ppb		90
11) Phenanthrene	8.03	178	745533	44.79178	ppb		98
12) Anthracene	8.09	178	695926	46.99599	ppb		98
14) Fluoranthene	9.41	202	1006088	46.15032	ppb	#	92
16) Pyrene	9.67	202	1055879	46.41163	ppb	#	93
17) Benz (a) anthracene	11.13	228	1127240	50.80447	ppb		98
18) Chrysene	11.18	228	1050714	44.32875	ppb		98
19) Indeno (1,2,3-cd) pyrene	15.07	276	1423510	51.29252	ppb	#	89
21) Benzo (b) fluoranthene	12.97	252	1356281	56.88160	ppb	#	97
22) Benzo (k) fluoranthene	13.02	252	1299182	45.46088	ppb		98
23) Benzo (a) pyrene	13.50	252	1216664	54.26940	ppb		98
24) Dibenz (a,h) anthracene	15.13	278	1203467	47.47280	ppb		96
25) Benzo (g,h,i) perylene	15.47	276	1214669	46.34075	ppb		96

(#) = qualifier out of range (m) = manual integration

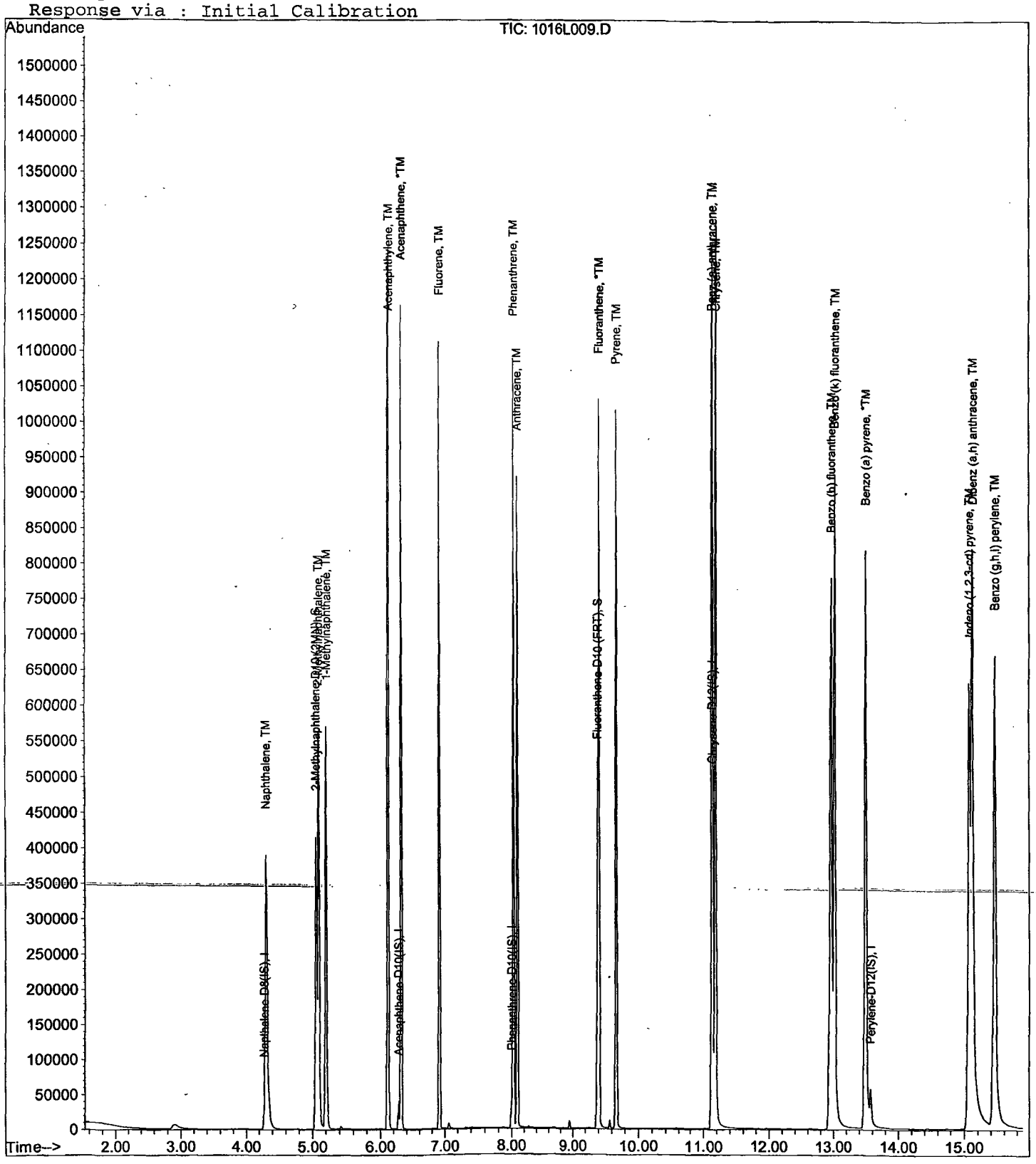
Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L009.D
Acq On : 16 Oct 20 12:50
Sample : 50 SIM 08/21/20
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 16 13:48 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L010.D Vial: 10
Acq On : 16 Oct 20 13:12 Operator: MA
Sample : 100 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:47 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:47:50 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	39931	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	22446	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	8.00	188	44342	2.50000	ppb		0.01
15) Chrysene-D12(IS)	11.15	240	55121	2.50000	ppb		0.02
20) Perylene-D12(IS)	13.58	264	58243	2.50000	ppb		0.02
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	890571	52.09901	ppb		0.00
Spiked Amount 5.000			Recovery	= 1041.980%			
13) Fluoranthene-D10 (FRT)	9.39	212	1112969	53.83220	ppb		0.01
Spiked Amount 5.000			Recovery	= 1076.640%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	1372540	90.46444	ppb		98
4) 2-Methylnaphthalene	5.09	142	938117	96.38352	ppb		96
5) 1-Methylnaphthalene	5.20	142	918368	92.04539	ppb		95
7) Acenaphthylene	6.12	152	2774435	90.66282	ppb		99
8) Acenaphthene	6.33	154	802774	82.86868	ppb		97
9) Fluorene	6.93	166	1111179	96.46082	ppb		85
11) Phenanthrene	8.04	178	1468903	82.89821	ppb		97
12) Anthracene	8.10	178	1342303	85.14692	ppb		96
14) Fluoranthene	9.42	202	1974317	85.06995	ppb	#	90
16) Pyrene	9.68	202	2096374	94.29019	ppb	#	94
17) Benz (a) anthracene	11.14	228	2070440	95.48460	ppb		97
18) Chrysene	11.19	228	1983840	85.64316	ppb	#	95
19) Indeno (1,2,3-cd) pyrene	15.11	276	2762426	101.85194	ppb	#	87
21) Benzo (b) fluoranthene	12.98	252	2138419	101.57143	ppb		100
22) Benzo (k) fluoranthene	13.04	252	2211086	87.62543	ppb		100
23) Benzo (a) pyrene	13.52	252	2045239	103.32017	ppb		98
24) Dibenz (a,h) anthracene	15.15	278	2331210	104.14746	ppb	#	95
25) Benzo (g,h,i) perylene	15.50	276	2288345	98.87428	ppb		97

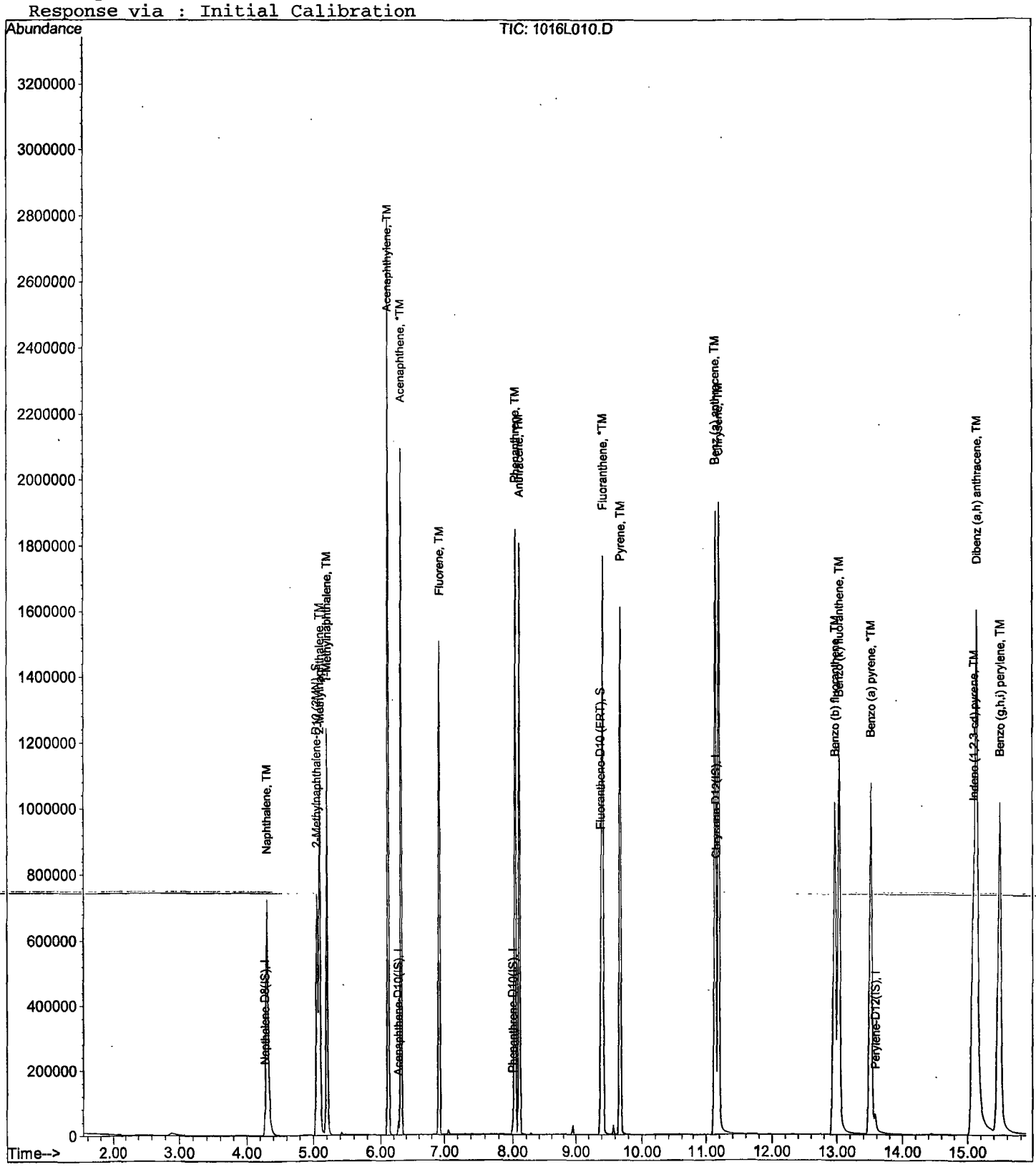
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L010.D Vial: 10
Acq On : 16 Oct 20 13:12 Operator: MA
Sample : 100 SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:47 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/16/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L011.D

		Compound	MEAN	CCRF	%D		%Drift
1	TM	Naphthalene	0.9600	0.9132	4.9	TM	
2	TM	2-Methylnaphthalene	0.6501	0.6497	0.06	TM	
3	TM	1-Methylnaphthalene	0.6400	0.6197	3.2	TM	
4	TM	Acenaphthylene	3.679	3.702	0.64	TM	
5	*TM	Acenaphthene	1.093	1.076	1.5	*TM	
6	TM	Fluorene	1.356	1.354	0.13	TM	
7	TM	Phenanthrene	1.018	1.058	3.9	TM	
8	TM	Anthracene	0.9311	1.069	15	TM	
9	*TM	Fluoranthene	1.380	1.519	10	*TM	
10	TM	Pyrene	1.043	1.078	3.3	TM	
11	TM	Benz (a) anthracene	1.027	1.030	0.22	TM	
12	TM	Chrysene	1.044	1.015	2.8	TM	
13	TM	Indeno (1,2,3-cd) pyrene	1.244	1.350	8.5	TM	
14	TM	Benzo (b) fluoranthene	0.9609	0.9298	3.2	TM	
15	TM	Benzo (k) fluoranthene	1.069	1.178	10	TM	
16	*TM	Benzo (a) pyrene	0.8856	0.9841	11	*TM	
17	TM	Dibenz (a,h) anthracene	0.9538	1.040	9.1	TM	
18	TM	Benzo (g,h,i) perylene	0.9868	1.050	6.4	TM	
19							
20							
21							
22							
23							
24							
25							
26							
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31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			5.2		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L011.D Vial: 11
Acq On : 16 Oct 20 13:34 Operator: MA
Sample : SS SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:53 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	59322	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	30386	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	62233	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	91312	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	98148	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	0.00	152	0d	0.00000	ppb		
Spiked Amount 5.000			Recovery =	0.000%			
13) Fluoranthene-D10 (FRT)	0.00	212	0d	0.00000	ppb		
Spiked Amount 5.000			Recovery =	0.000%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	108342	4.75587	ppb		99
4) 2-Methylnaphthalene	5.08	142	77085	4.99708	ppb		99
5) 1-Methylnaphthalene	5.19	142	73520	4.84127	ppb		98
7) Acenaphthylene	6.11	152	225002	5.03212	ppb		99
8) Acenaphthene	6.31	154	65388	4.92375	ppb		96
9) Fluorene	6.92	166	82291	4.99334	ppb		87
11) Phenanthrene	8.03	178	131665	5.19729	ppb		98
12) Anthracene	8.09	178	133038	5.73959	ppb		97
14) Fluoranthene	9.40	202	189096	5.50570	ppb		95
16) Pyrene	9.66	202	196781	5.16391	ppb		95
17) Benz (a) anthracene	11.12	228	188027	5.01094	ppb		98
18) Chrysene	11.16	228	185421	4.86068	ppb	#	98
19) Indeno (1,2,3-cd) pyrene	15.04	276	246499	5.42292	ppb	#	89
21) Benzo (b) fluoranthene	12.93	252	182515	4.83839	ppb		98
22) Benzo (k) fluoranthene	12.99	252	231163	5.50621	ppb		98
23) Benzo (a) pyrene	13.48	252	193170	5.55576	ppb		98
24) Dibenz (a,h) anthracene	15.10	278	204218	5.45350	ppb		99
25) Benzo (g,h,i) perylene	15.42	276	206170	5.32189	ppb		97

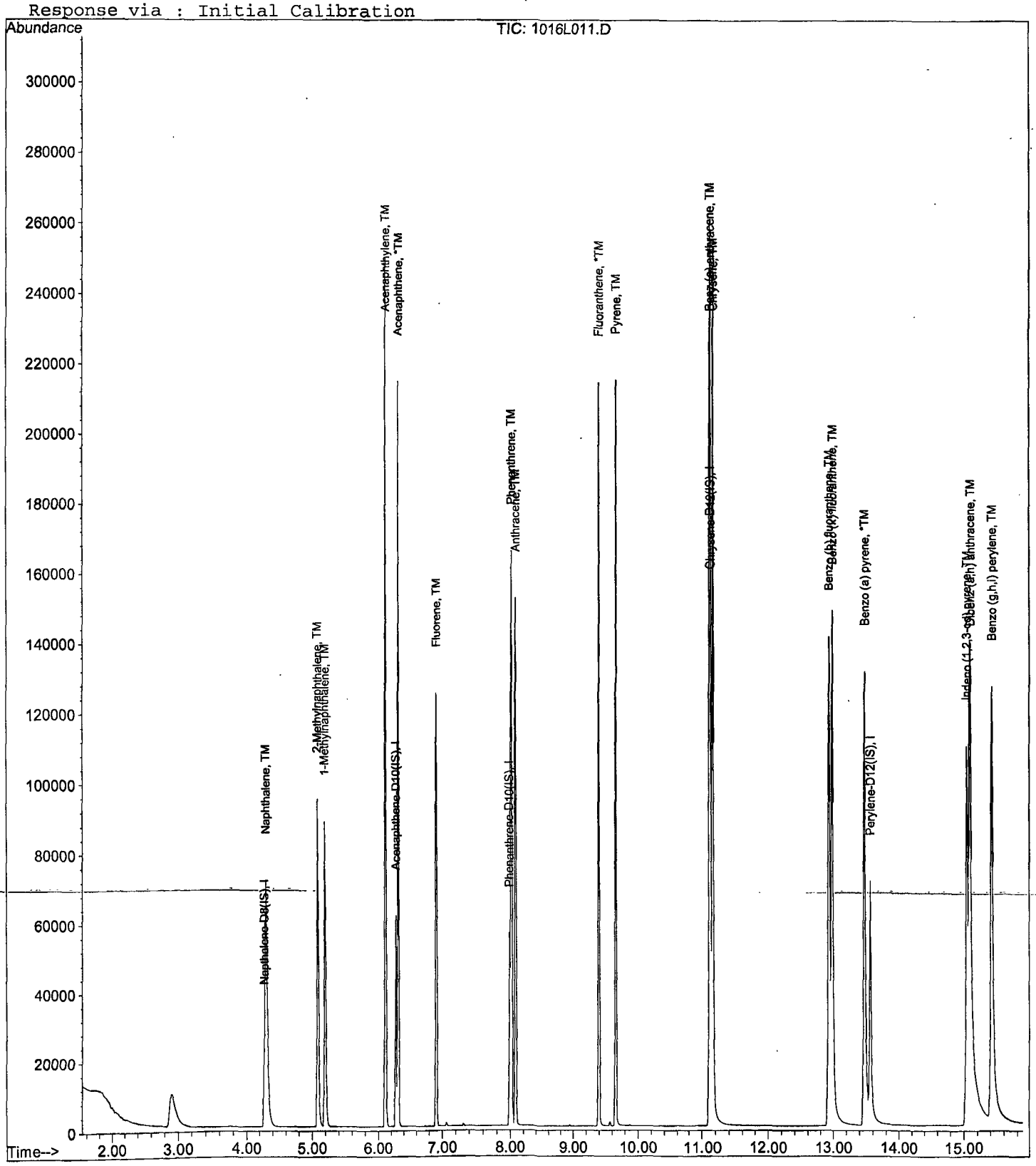
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L011.D Vial: 11
Acq On : 16 Oct 20 13:34 Operator: MA
Sample : SS SIM 08/21/20 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 16 13:53 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/23/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L117.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	0.9600	0.9139	4.8	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.114	1.188	6.6	S	
4	TM	2-Methylnaphthalene	0.6501	0.6361	2.2	TM	
5	TM	1-Methylnaphthalene	0.6400	0.6290	1.7	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	3.679	3.561	3.2	TM	
8	*TM	Acenaphthene	1.093	1.070	2.1	*TM	
9	TM	Fluorene	1.356	1.359	0.23	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.018	1.027	0.93	TM	
12	TM	Anthracene	0.9311	0.9592	3.0	TM	
13	S	Fluoranthene-D10 (FRT)	1.238	1.242	0.26	S	
14	*TM	Fluoranthene	1.380	1.433	3.9	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.043	1.042	0.16	TM	
17	TM	Benz (a) anthracene	1.027	0.9719	5.4	TM	
18	TM	Chrysene	1.044	1.046	0.11	TM	
19	TM	Indeno (1,2,3-cd) pyrene	1.244	1.229	1.3	TM	
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	0.9609	0.9347	2.7	TM	
22	TM	Benzo (k) fluoranthene	1.069	1.105	3.4	TM	
23	*TM	Benzo (a) pyrene	0.8856	0.9004	1.7	*TM	
24	TM	Dibenz (a,h) anthracene	0.9538	0.9519	0.20	TM	
25	TM	Benzo (g,h,i) perylene	0.9868	0.9664	2.1	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			2.3		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L117.D Vial: 17
Acq On : 23 Oct 20 11:22 Operator: MA
Sample : 5 SIM 08/21/20 (1) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 23 11:44 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	46756	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	27674	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	50490	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	70872	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	76980	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	55550	2.66605	ppb		0.00
Spiked Amount 5.000			Recovery	= 53.320%			
13) Fluoranthene-D10 (FRT)	9.38	212	62695	2.50661	ppb		0.00
Spiked Amount 5.000			Recovery	= 50.140%			
Target Compounds							Qvalue
2) Naphthalene	4.30	128	85459	4.75959	ppb		100
4) 2-Methylnaphthalene	5.08	142	59481	4.89218	ppb		99
5) 1-Methylnaphthalene	5.19	142	58818	4.91408	ppb		100
7) Acenaphthylene	6.11	152	197115	4.84046	ppb		100
8) Acenaphthene	6.31	154	59231	4.89721	ppb		99
9) Fluorene	6.90	166	75217	5.01137	ppb		93
11) Phenanthrene	8.03	178	103722	5.04653	ppb		97
12) Anthracene	8.09	178	96860	5.15069	ppb		96
14) Fluoranthene	9.40	202	144740	5.19438	ppb		96
16) Pyrene	9.66	202	147647	4.99199	ppb		97
17) Benz (a) anthracene	11.12	228	137759	4.73012	ppb		97
18) Chrysene	11.16	228	148197	5.00531	ppb	#	98
19) Indeno (1,2,3-cd) pyrene	15.04	276	174180	4.93707	ppb	#	85
21) Benzo (b) fluoranthene	12.93	252	143911	4.86407	ppb	#	98
22) Benzo (k) fluoranthene	12.99	252	170172	5.16804	ppb		98
23) Benzo (a) pyrene	13.48	252	138621	5.08319	ppb		98
24) Dibenz (a,h) anthracene	15.10	278	146560	4.98999	ppb		99
25) Benzo (g,h,i) perylene	15.42	276	148782	4.89659	ppb		98

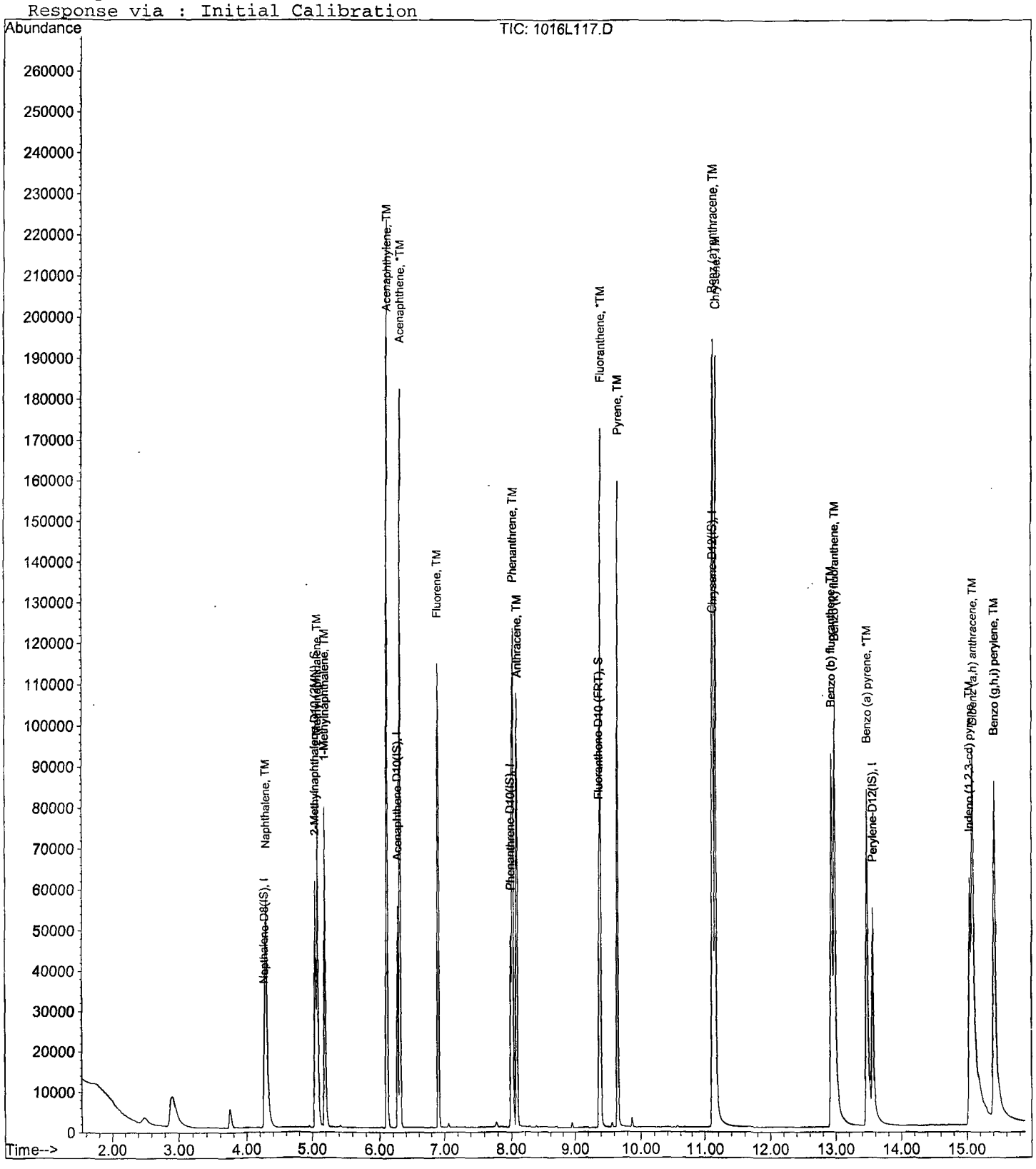
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L117.D Vial: 17
Acq On : 23 Oct 20 11:22 Operator: MA
Sample : 5 SIM 08/21/20 (1) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 23 11:44 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/23/20
Instrument: Linus
Initial Cal. Date: 10/16/20
Data File: 1016L123.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	0.9600	1.085	13	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.114	1.194	7.2	S	
4	TM	2-Methylnaphthalene	0.6501	0.7758	19	TM	
5	TM	1-Methylnaphthalene	0.6400	0.7487	17	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	3.679	4.102	12	TM	
8	*TM	Acenaphthene	1.093	1.086	0.58	*TM	
9	TM	Fluorene	1.356	1.549	14	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.018	1.019	0.10	TM	
12	TM	Anthracene	0.9311	0.9731	4.5	TM	
13	S	Fluoranthene-D10 (FRT)	1.238	1.327	7.2	S	
14	*TM	Fluoranthene	1.380	1.498	8.6	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.043	1.202	15	TM	
17	TM	Benz (a) anthracene	1.027	1.145	11	TM	
18	TM	Chrysene	1.044	1.190	14	TM	
19	TM	Indeno (1,2,3-cd) pyrene	1.244	1.464	18	TM	
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	0.9609	0.9781	1.8	TM	
22	TM	Benzo (k) fluoranthene	1.069	1.234	15	TM	
23	*TM	Benzo (a) pyrene	0.8856	0.9829	11	*TM	
24	TM	Dibenz (a,h) anthracene	0.9538	1.059	11	TM	
25	TM	Benzo (g,h,i) perylene	0.9868	0.9686	1.8	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			10.1		

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L123.D Vial: 23
Acq On : 23 Oct 20 16:15 Operator: MA
Sample : 5 SIM 08/21/20 (2) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 23 16:31 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	45063	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	25522	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	56001	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	72836	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	85621	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	53803	2.67922 ppb		0.00
Spiked Amount 5.000			Recovery	= 53.580%		
13) Fluoranthene-D10 (FRT)	9.38	212	74314	2.67876 ppb		0.00
Spiked Amount 5.000			Recovery	= 53.580%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	97774	5.65005 ppb		97
4) 2-Methylnaphthalene	5.08	142	69919	5.96674 ppb		92
5) 1-Methylnaphthalene	5.19	142	67473	5.84897 ppb		95
7) Acenaphthylene	6.11	152	209405	5.57585 ppb		99
8) Acenaphthene	6.31	154	55448	4.97099 ppb		100
9) Fluorene	6.90	166	79049	5.71077 ppb		88
11) Phenanthrene	8.02	178	114102	5.00524 ppb		99
12) Anthracene	8.08	178	108988	5.22527 ppb		99
14) Fluoranthene	9.40	202	167776	5.42856 ppb		99
16) Pyrene	9.66	202	175070	5.75956 ppb		99
17) Benz (a) anthracene	11.11	228	166801	5.57288 ppb		97
18) Chrysene	11.16	228	173326	5.69618 ppb		97
19) Indeno (1,2,3-cd) pyrene	15.04	276	213201	5.88016 ppb	#	89
21) Benzo (b) fluoranthene	12.93	252	167487	5.08961 ppb		99
22) Benzo (k) fluoranthene	12.99	252	211301	5.76948 ppb	#	95
23) Benzo (a) pyrene	13.48	252	168307	5.54890 ppb	#	97
24) Dibenz (a,h) anthracene	15.08	278	181284	5.54934 ppb	#	96
25) Benzo (g,h,i) perylene	15.42	276	165868	4.90799 ppb		97

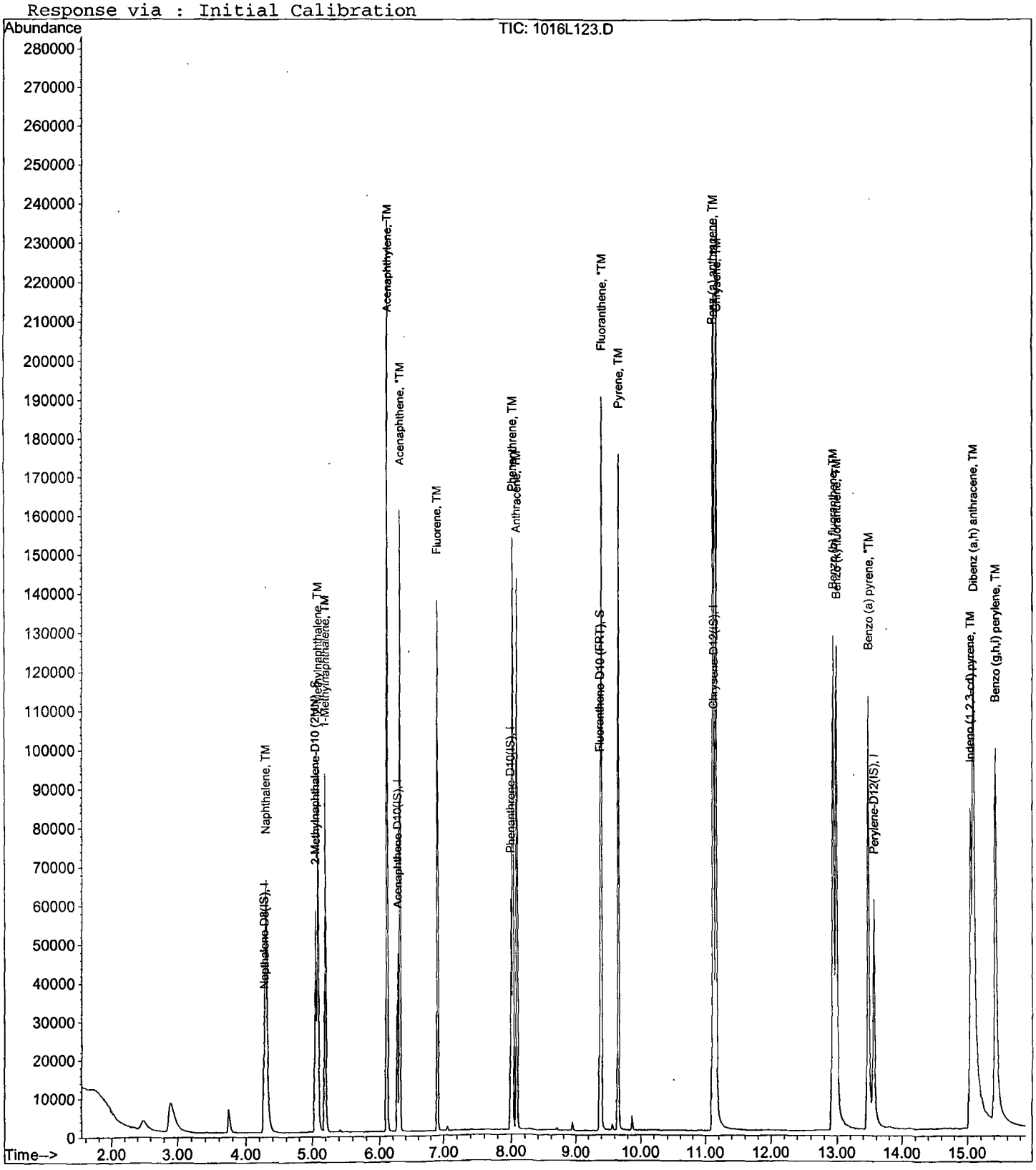
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L123.D Vial: 23
Acq On : 23 Oct 20 16:15 Operator: MA
Sample : 5 SIM 08/21/20 (2) Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 23 16:31 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L122.D Vial: 22
Acq On : 23 Oct 20 15:53 Operator: MA
Sample : BA20486W13 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 15:09 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	31386	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	6.28	164	20434	2.50000	ppb	0.00
10) Phenanthrene-D10(IS)	7.99	188	35574	2.50000	ppb	0.00
15) Chrysene-D12(IS)	11.13	240	53350	2.50000	ppb	0.00
20) Perylene-D12(IS)	13.56	264	58381	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	79923	7.14279	ppb	0.00
Spiked Amount 6.250			Recovery = 114.288%			
13) Fluoranthene-D10 (FRT)	9.38	212	99644	7.06785	ppb	0.00
Spiked Amount 6.250			Recovery = 113.088%			

Target Compounds Qvalue

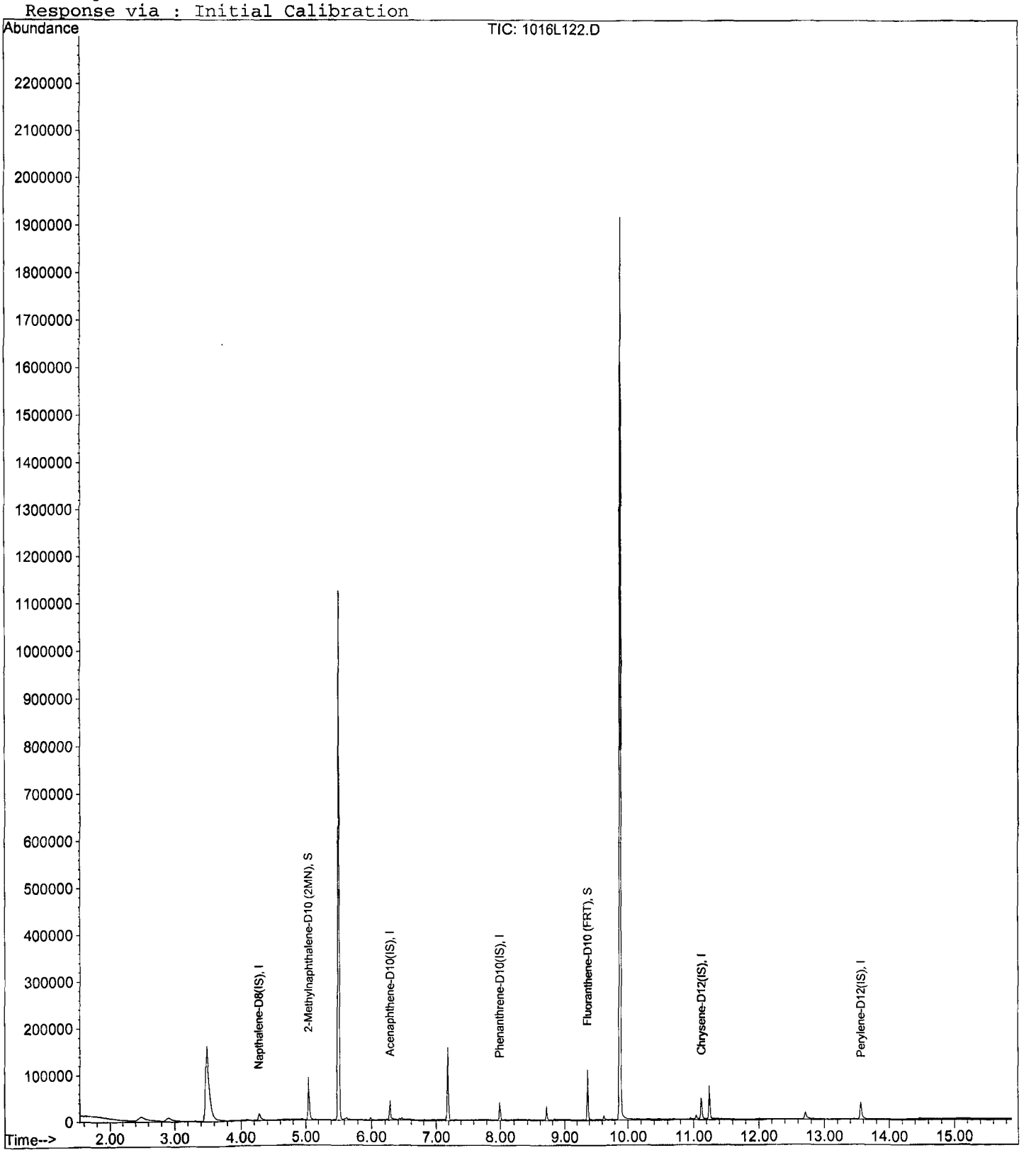
(#) = qualifier out of range (m) = manual integration
1016L122.D L1016.M Mon Nov 09 11:08:18 2020 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L122.D Vial: 22
Acq On : 23 Oct 20 15:53 Operator: MA
Sample : BA20486W13 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 15:09 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L118.D Vial: 18
Acq On : 23 Oct 20 14:24 Operator: MA
Sample : 201021A BLK 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	36479	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	6.28	164	18826	2.50000	ppb	0.00
10) Phenanthrene-D10(IS)	7.99	188	36720	2.50000	ppb	0.00
15) Chrysene-D12(IS)	11.12	240	52875	2.50000	ppb	-0.01
20) Perylene-D12(IS)	13.56	264	57632	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	87512	6.72910	ppb	0.00
Spiked Amount 6.250			Recovery	= 107.664%		
13) Fluoranthene-D10 (FRT)	9.38	212	100815	6.92774	ppb	0.00
Spiked Amount 6.250			Recovery	= 110.848%		

Target Compounds Qvalue

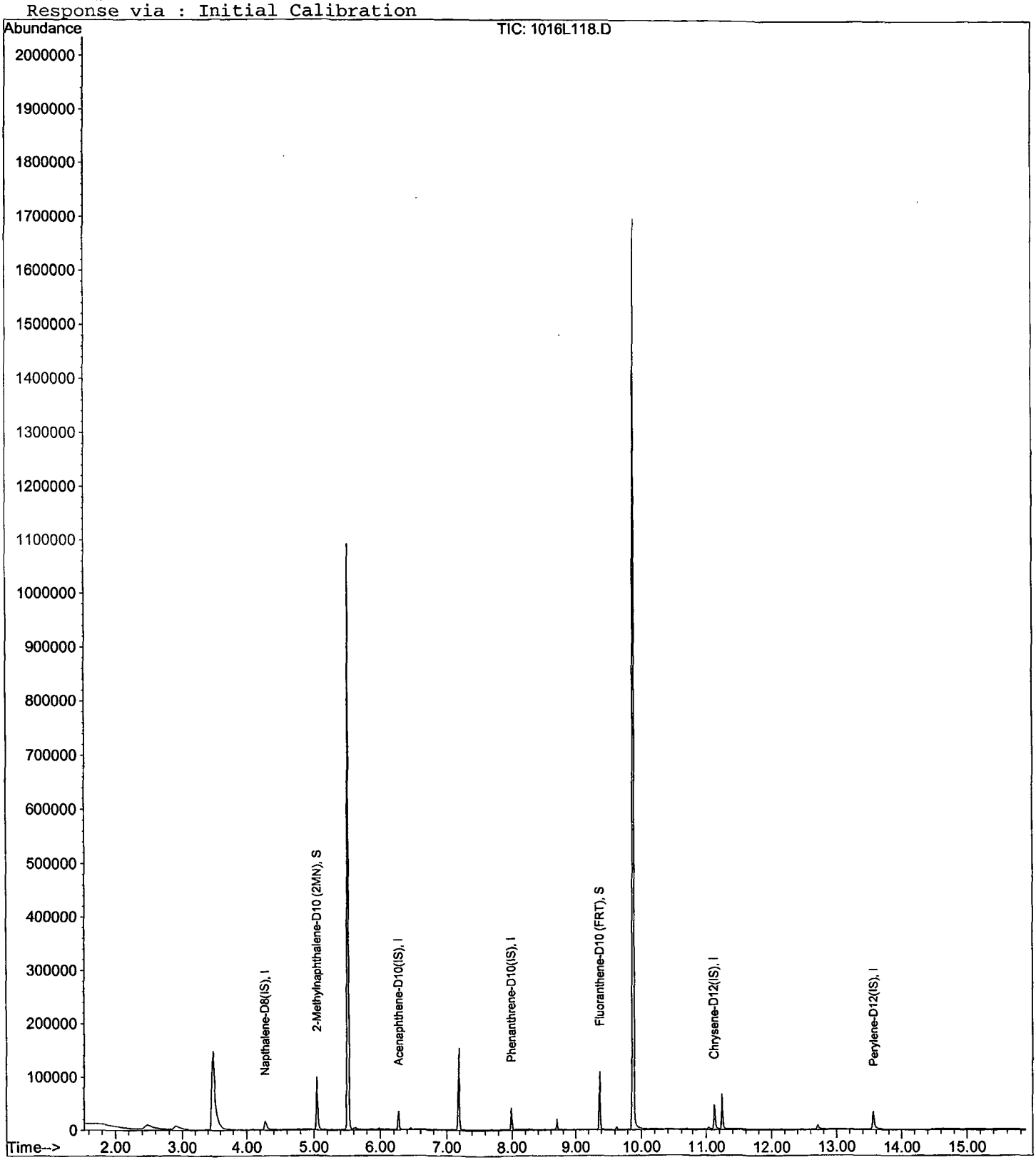
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L118.D Vial: 18
Acq On : 23 Oct 20 14:24 Operator: MA
Sample : 201021A BLK 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L119.D Vial: 19
Acq On : 23 Oct 20 14:46 Operator: MA
Sample : 201021A LCS-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	33312	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	17203	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	34685	2.50000	ppb		0.00
15) Chrysene-D12(IS)	11.13	240	47498	2.50000	ppb		0.00
20) Perylene-D12(IS)	13.56	264	51583	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	5.05	152	68264	5.74809	ppb		0.00
Spiked Amount 6.250			Recovery = 91.968%				
13) Fluoranthene-D10 (FRT)	9.38	212	86646	6.30341	ppb		0.00
Spiked Amount 6.250			Recovery = 100.848%				
Target Compounds							Qvalue
2) Naphthalene	4.30	128	59174	5.78215	ppb		99
4) 2-Methylnaphthalene	5.08	142	37261	5.37682	ppb		99
5) 1-Methylnaphthalene	5.19	142	36552	5.35785	ppb		100
7) Acenaphthylene	6.11	152	119632	5.90734	ppb		100
8) Acenaphthene	6.31	154	35657	5.92819	ppb		100
9) Fluorene	6.90	166	49099	6.57796	ppb		95
11) Phenanthrene	8.01	178	74556	6.60052	ppb		100
12) Anthracene	8.08	178	63268	6.12179	ppb		99
14) Fluoranthene	9.40	202	93840	6.12783	ppb		99
16) Pyrene	9.66	202	95474	6.02065	ppb		100
17) Benz (a) anthracene	11.11	228	93506	5.98827	ppb		100
18) Chrysene	11.16	228	94337	5.94268	ppb		99
19) Indeno (1,2,3-cd) pyrene	15.04	276	117109	6.19114	ppb	#	95
21) Benzo (b) fluoranthene	12.93	252	90753	5.72200	ppb		99
22) Benzo (k) fluoranthene	12.98	252	118879	6.73479	ppb		100
23) Benzo (a) pyrene	13.48	252	84770	5.79870	ppb	#	97
24) Dibenz (a,h) anthracene	15.08	278	99842	6.34131	ppb		99
25) Benzo (g,h,i) perylene	15.42	276	100135	6.14767	ppb		96

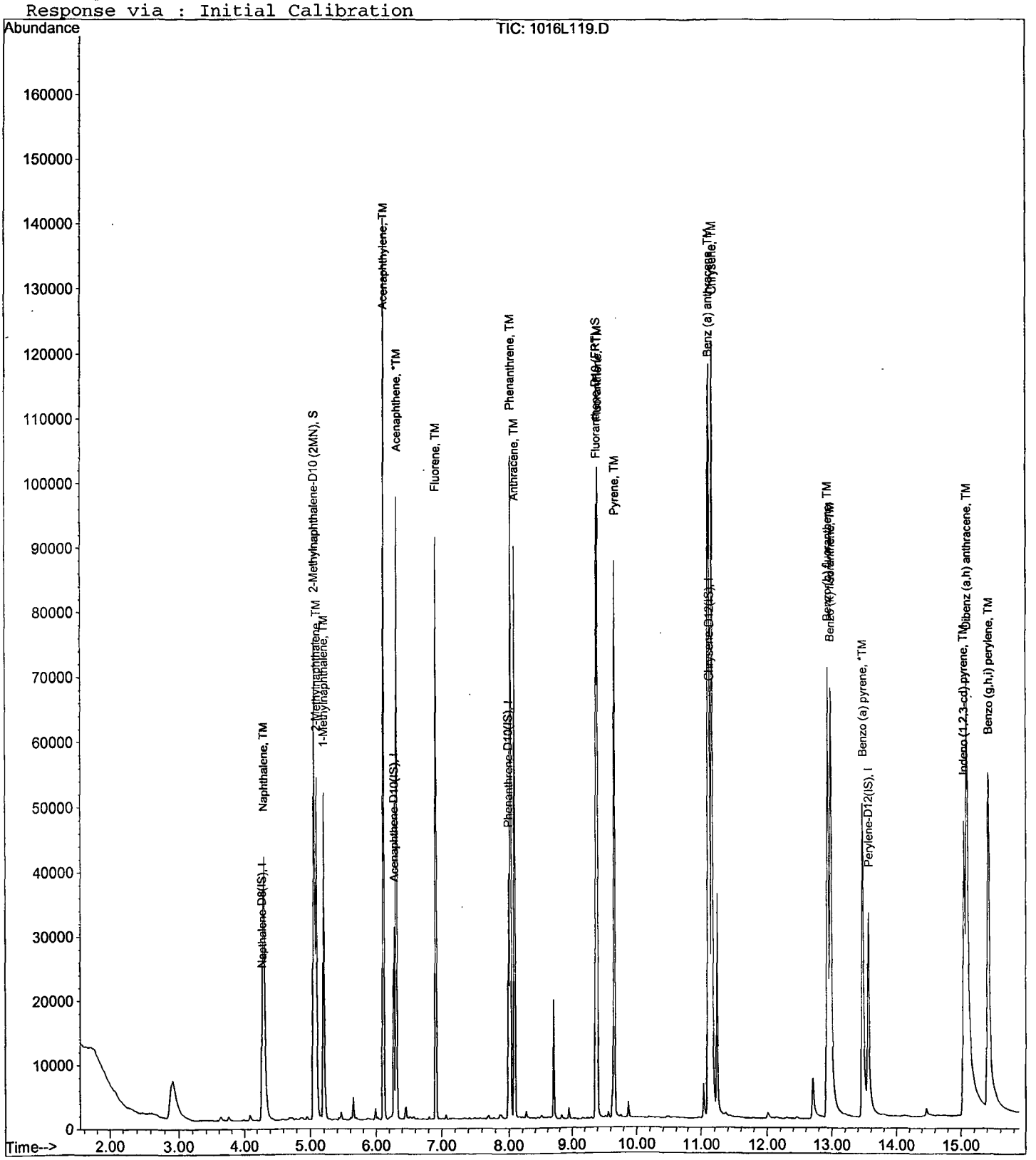
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L119.D Vial: 19
Acq On : 23 Oct 20 14:46 Operator: MA
Sample : 201021A LCS-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L201016\1016L120.D Vial: 20
Acq On : 23 Oct 20 15:09 Operator: MA
Sample : 201021A LCSD-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Quant Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	4.27	136	35659	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	6.28	164	20111	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.99	188	36788	2.50000 ppb		0.00
15) Chrysene-D12(IS)	11.13	240	55255	2.50000 ppb		0.00
20) Perylene-D12(IS)	13.56	264	58690	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	5.05	152	73242	5.76134 ppb		0.00
Spiked Amount 6.250			Recovery	= 92.176%		
13) Fluoranthene-D10 (FRT)	9.38	212	95653	6.56087 ppb		0.00
Spiked Amount 6.250			Recovery	= 104.976%		
Target Compounds						Qvalue
2) Naphthalene	4.30	128	61423	5.60687 ppb		100
4) 2-Methylnaphthalene	5.08	142	39905	5.37935 ppb		100
5) 1-Methylnaphthalene	5.19	142	39232	5.37219 ppb		100
7) Acenaphthylene	6.11	152	136229	5.75419 ppb		100
8) Acenaphthene	6.31	154	44748	6.36387 ppb		98
9) Fluorene	6.90	166	57803	6.62429 ppb		95
11) Phenanthrene	8.01	178	72702	6.06844 ppb		100
12) Anthracene	8.08	178	62807	5.72978 ppb		99
14) Fluoranthene	9.40	202	103636	6.38065 ppb		99
16) Pyrene	9.66	202	105194	5.70234 ppb		99
17) Benz (a) anthracene	11.11	228	105722	5.82011 ppb		100
18) Chrysene	11.16	228	114116	6.17947 ppb		100
19) Indeno (1,2,3-cd) pyrene	15.04	276	131587	5.97994 ppb		91
21) Benzo (b) fluoranthene	12.93	252	95491	5.29166 ppb		99
22) Benzo (k) fluoranthene	12.99	252	129255	6.43589 ppb	#	98
23) Benzo (a) pyrene	13.48	252	92419	5.55639 ppb	#	97
24) Dibenz (a,h) anthracene	15.08	278	112732	6.29297 ppb		97
25) Benzo (g,h,i) perylene	15.42	276	113426	6.12040 ppb		97

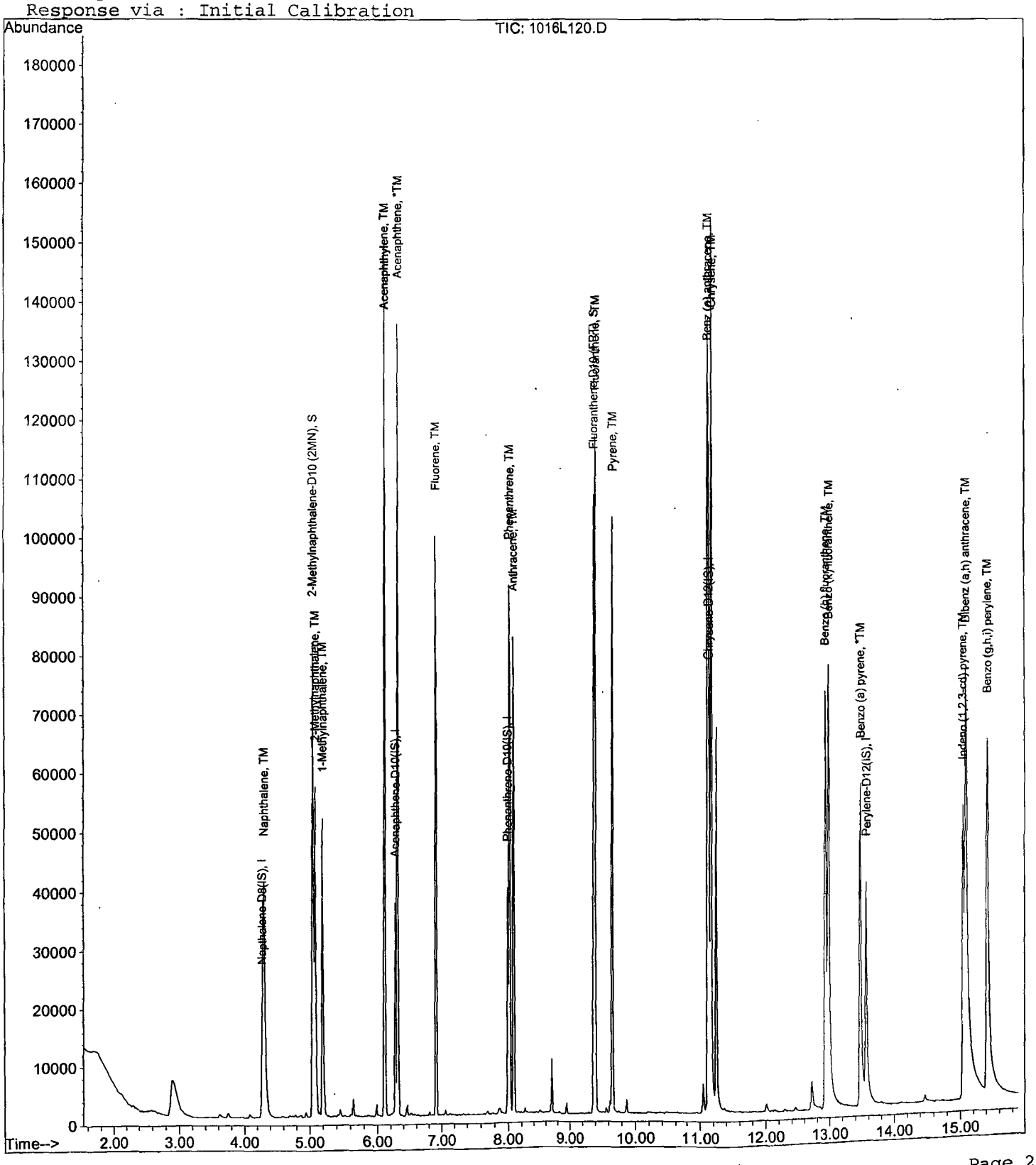
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L201016\1016L120.D Vial: 20
Acq On : 23 Oct 20 15:09 Operator: MA
Sample : 201021A LCSD-2 1/800 Inst : Linus
Misc : Multiplr: 1.25

Quant Time: Oct 23 14:47 2020 Quant Results File: L1016.RES

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270
Last Update : Fri Oct 16 13:50:55 2020
Response via : Initial Calibration

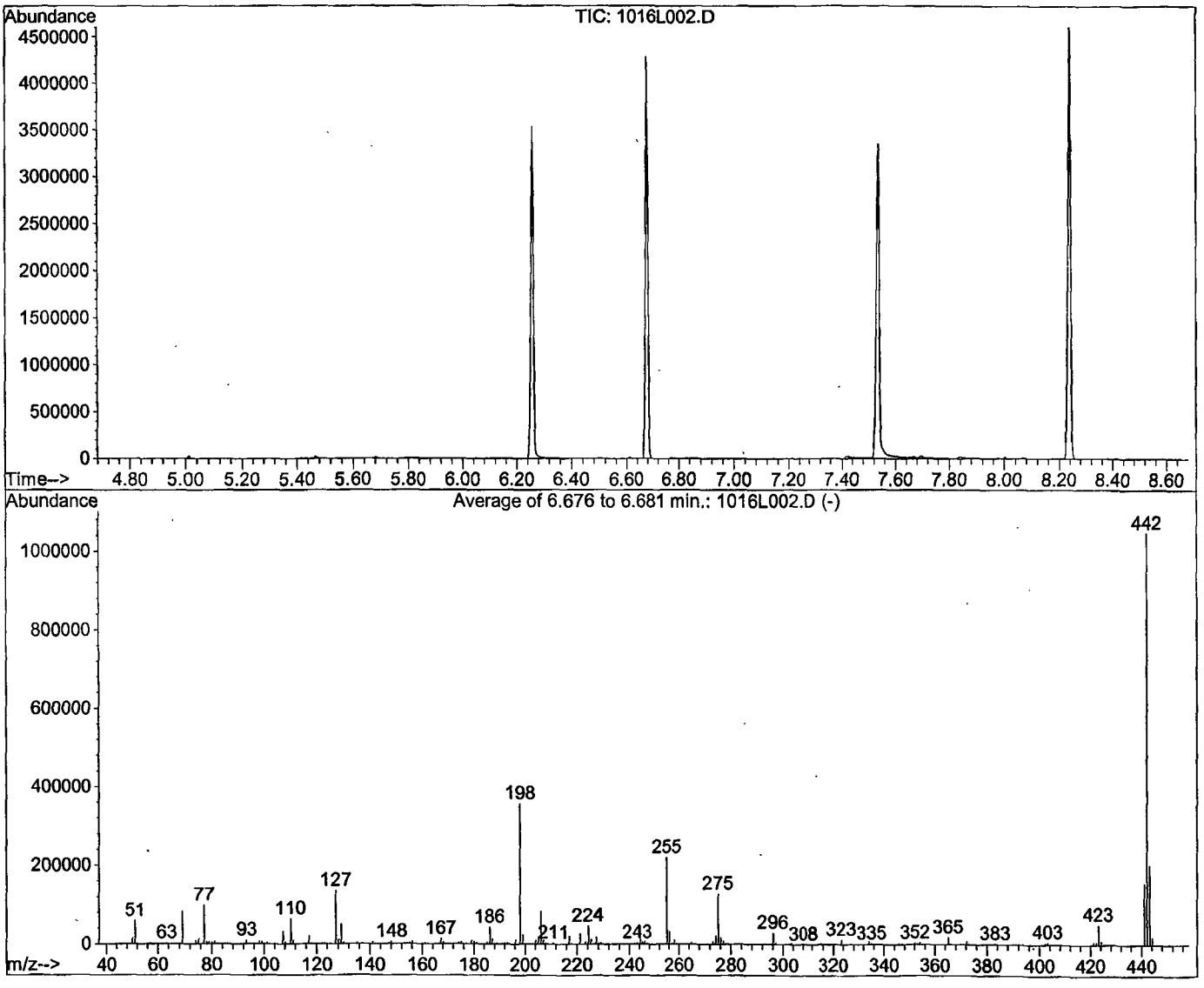


DFTPP

Data File : M:\LINUS\DATA\L201016\1016L002.D
Acq On : 16 Oct 20 10:21
Sample : SV Tune 10/01/19
Misc :

Vial: 2
Operator: MA
Inst : Linus
Multiplr: 1.00

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270



AutoFind: Scans 1643, 1644, 1645; Background Corrected with Scan 1634

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	16.6	59205	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	502	PASS
127	198	10	80	38.1	135989	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	357205	PASS
199	198	5	9	6.7	23979	PASS
275	198	10	60	35.8	127832	PASS
365	198	1	100	5.1	18325	PASS
441	442	0.01	24	14.9	155691	PASS
442	198	50	500	293.3	1047637	PASS
443	442	15	24	19.2	201045	PASS

1016L002.D L1016.M Fri Oct 16 14:23:20 2020

Data File Name:	**1016L002.D**
Data File Path:	**M:\LINUS\DATA\L201016**
Operator:	**MA**
Date Acquired:	**16 Oct 2020 10:21**
Method File:	**DFTPP2.M**
Sample Name:	**SV Tune 10/01/19**
Vial Number:	**2**
Instrument Name:	**Linus**

#	Name	Ret Time	Target Response
1)	DDT	8.24	32904900
2)	DDD	7.98	120213
3)	DDE	6.84	0

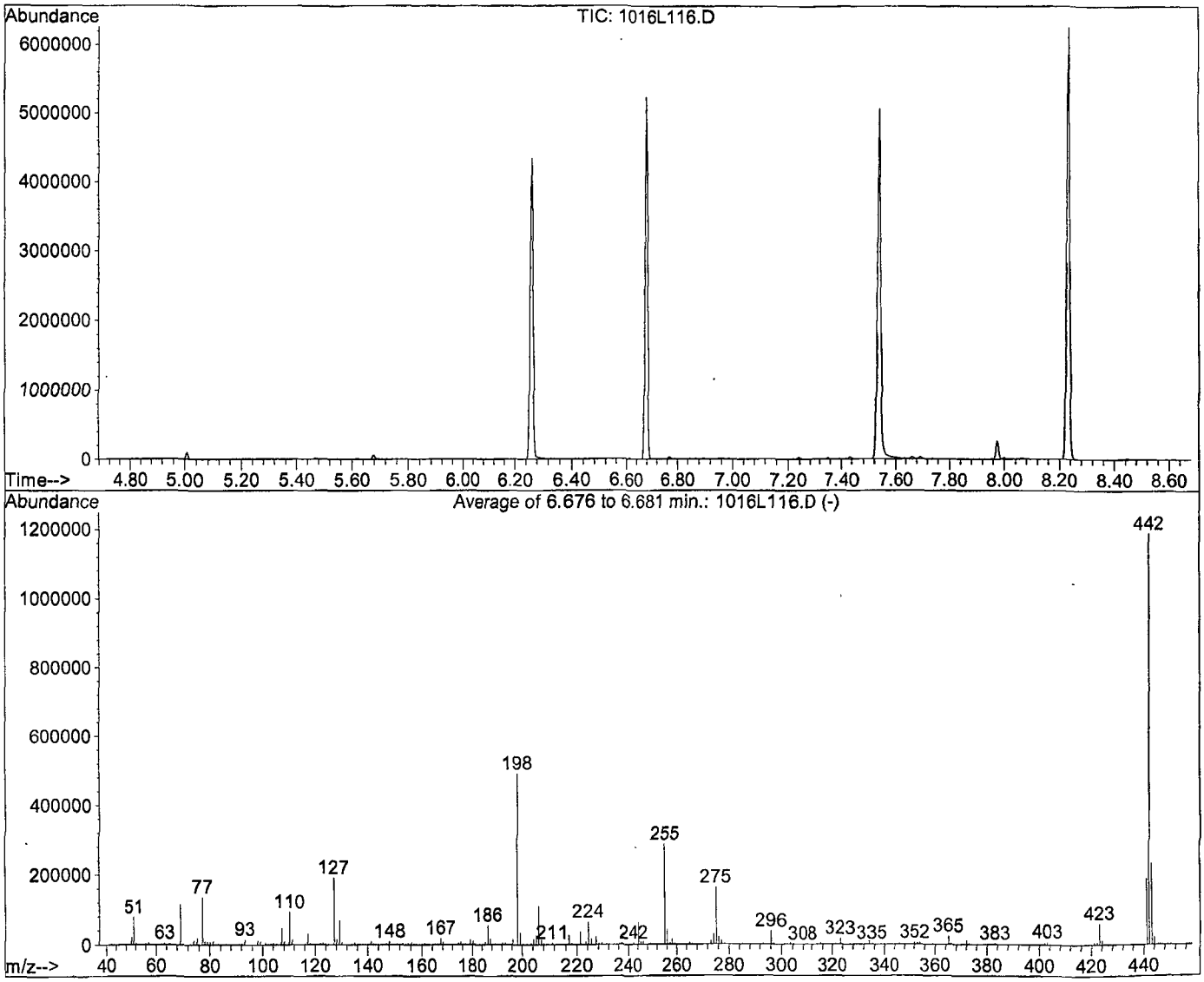
Breakdown **0.36**

DFTPP

Data File : M:\LINUS\DATA\L201016\1016L116.D
Acq On : 23 Oct 20 10:31
Sample : SV TUNE 10/02/20
Misc :

Vial: 74
Operator: MA
Inst : Linus
Multiplr: 1.00

Method : M:\LINUS\DATA\L201016\L1016.M (RTE Integrator)
Title : EPA 8270



AutoFind: Scans 1643, 1644, 1645; Background Corrected with Scan 1634

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	15.9	77943	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	658	PASS
127	198	10	80	38.9	191211	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	491712	PASS
199	198	5	9	6.7	32912	PASS
275	198	10	60	33.1	162773	PASS
365	198	1	100	4.9	23893	PASS
441	442	0.01	24	15.9	189227	PASS
442	198	50	500	241.9	1189611	PASS
443	442	15	24	19.6	232619	PASS

Data File Name:	**1016L116.D**
Data File Path:	**M:\LINUS\DATA\L201016**
Operator:	**MA**
Date Acquired:	**23 Oct 2020 10:31**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**74**
Instrument Name:	**Linus**

#	Name	Ret Time	Target Response
1)	DDT	8.24	44661600
2)	DDD	7.98	1802880
3)	DDE	7.69	179906

Breakdown **4.25**

Standard	SIM Curve	Prep'd By (Initials)	MA
Prep Date	08/21/20		
Exp Date	06/19/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/21/20	06/19/21	10 uL	100uL	MC 59130 90uL	0.1 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/21/20	06/19/21	20 uL	100uL	MC 59130 80uL	0.2 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/21/20	06/19/21	10 uL	100uL	MC 59130 90uL	0.5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/21/20	06/19/21	20 uL	100uL	MC 59130 80 uL	1.0 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	08/20/20	08/20/21	5 uL	200uL	MC 59130 190 uL	5.0 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	5 uL	"	"	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	4 uL	"	"	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	08/20/20	08/20/21	5 uL	100 uL	MC 59130 80 uL	10 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	5 uL	"	"	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200	08/20/20	08/20/21	25 uL	100uL	MC 59130 50 uL	50 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	25 uL	"	"	25 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	08/20/20	08/20/21	50 uL	100uL	na	100 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	08/11/20	08/11/21	50 uL	"	"	50 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	2 uL	"	"	2.5ug/mL

Name of Final Standard	8270 PAH SIM Second Source	Prep'd By (Initials)	MA
Prep Date	08/21/20		
Exp Date	06/19/21		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	CL13117-40623. Open 7/24/19	12/31/22	5 uL	200uL	MC 59130 195uL	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	06/19/20	06/19/21	4 uL	"	"	2.5ug/mL

Name of Final Standard	**PAH SIM Stock (Ampule)**
Prep Date	**08/20/20**
Exp Date	**08/20/21**

Prep'd By (I **MA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	ALO-130490	200 ug/mL	**CL13121-41383**	**12/31/22**	1000 uL	1mL	**NA**	200ug/mL

Name of Final Standard	SIM Surrogate
Prep Date	08/11/20
Exp Date	04/01/21

Prep'd By (Initials) CD

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0154854-49995,49992,50255,50256,50257	10/01/25	5mL	100 mL	Acetone #0234320	100 ug/mL

Name of Final Standard	**8270 SIM PAH Internal Standard**
Prep Date	**06/19/20**
Exp Date	**06/19/21**

Prep'd By (Initials) **CD**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	**A0157142-49875**	**12/31/25**	625uL	10mL	**MC DW717**	125 ug/mL

Name of Final Standard	**SIM Spike**	**Prep'd By (Initials)**	**MA**
Prep Date	**09/11/20**		
Exp Date	**09/11/21**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	**CL13121- 41545 41546 41547 49548**	**12/31/22**	**5 mL**	**25 mL**	**Acetone 0246130**	**40 ug/mL**

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	201021A	Extraction Method	LIQ003	Units	mL

Spiked ID 1	8270T Spike 10/6/20 ex 10/6/21		Surrogate ID 1	8270 Surrogate 10/6/20 ex 10/6/21	
Spiked ID 2	Sim Spike 9/11/20 ex 9/11/21		Surrogate ID 2	SIM Surrogate 8/11/20 ex 8/11/21	
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/21/20 12:00	
Spiked ID 8			Ext. End Time:	10/23/20 10:35	
			GC Requires Extract By:		

pH1	2	10/21/20 12:10	Water Bath Temp 1 °C	EWB5 75/74.1 °
pH2	14	10/22/20 11:05	Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: **Date** 10/21/20 12:00:00 PM **Witnessed By:** 10/21/20 12:00 **Date** 10/23/20 1:59:16 PM

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201021A Blk				0.2,0.05	1,2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
2	201021A LCS-1		1	1	0.2	1	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
3	201021A LCS-2		0.125	2	0.050	2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
4	201021A LCSD-1		1	1	0.2	1	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
5	201021A LCSD-2		0.125	2	0.050	2	800	1	2/1	10/21/20 12:00	
						equip	EWB5				
6	BA20268	BA20268W15			0.2,0.05	1,2	800	1	2/1	10/21/20 12:00	93765
						equip	EWB5				
7	BA20486	BA20486W13			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93803
						equip	EWB5				
8	BA20539 MS-1	BA20539W28	1	1	0.2	1	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
9	BA20539 MSD-1	BA20539W27	1	1	0.2	1	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
10	BA20539 MS-2	BA20539W26	0.125	2	0.05	2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
11	BA20539 MSD-2	BA20539W24	0.125	2	0.05	2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
12	BA20539	BA20539W34			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
13	BA20541	BA20541W11			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
14	BA20542	BA20542W13			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				
15	BA20544	BA20544W15			0.2,0.05	1,2	800	1	2/1	10/22/20 10:35	93818
						equip	EWB5				

Solvent and Lot#	
PH Strips	.HC904495
Dichloromethane (DCM)	.60127
1+1 H2SO4	.231834
10N NaOH	.10/22/20
Filter Paper	.400178
Na2SO4	.2019070279

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	MA
Date	10/26/20
Time	12:00
Refrigerator	GC_C

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified	10/26/20 12:41:37 PM

Reviewed By: MA **Date** 10/26/20

Injection Log

Directory: M:\LINUS\DATA\L201016\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	1016L002.D	1	SV Tune 10/01/19		16 Oct 20 10:21
3	1016L003.D	1	0.1 SIM 08/21/20		16 Oct 20 10:37
4	1016L004.D	1	0.2 SIM 08/21/20		16 Oct 20 10:59
5	1016L005.D	1	0.5 SIM 08/21/20		16 Oct 20 11:21
6	1016L006.D	1	1 SIM 08/21/20		16 Oct 20 11:43
7	1016L007.D	1	5 SIM 08/21/20		16 Oct 20 12:05
8	1016L008.D	1	10 SIM 08/21/20		16 Oct 20 12:27
9	1016L009.D	1	50 SIM 08/21/20		16 Oct 20 12:50
10	1016L010.D	1	100 SIM 08/21/20		16 Oct 20 13:12
11	1016L011.D	1	SS SIM 08/21/20		16 Oct 20 13:34
74	1016L116.D	1	SV TUNE 10/02/20		23 Oct 20 10:31
17	1016L117.D	1	5 SIM 08/21/20 (1)		23 Oct 20 11:22
18	1016L118.D	1.25	201021A BLK 1/800		23 Oct 20 14:24
19	1016L119.D	1.25	201021A LCS-2 1/800		23 Oct 20 14:46
20	1016L120.D	1.25	201021A LCSD-2 1/800		23 Oct 20 15:09
22	1016L122.D	1.25	BA20486W13 1/800		23 Oct 20 15:53
23	1016L123.D	1	5 SIM 08/21/20 (2)		23 Oct 20 16:15

ORGANICS

Calibration Data

2MEE
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 05/01/20
Matrix: Instrument: Yoda Initials: MA

			0501Y003.D	0501Y004.D	0501Y006.D	0501Y007.D	0501Y008.D	0501Y009.D	0501Y010.D	0501Y011.D								
		Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r^2	Q	MRF
1	I	1,4-dichlorobenzene-D4(IS)																
2	TM	2-(2-Methoxyethoxy)ethanol	0.1264	0.1827	0.1475	0.1625	0.1354	0.1644	0.1592	0.1806			0.16	13	TM			
3																		
4																		
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Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y003.D Vial: 39
Acq On : 1 May 20 9:39 Operator: MA,SS
Sample : 50ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:24 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	428206	40.00000 ppb	-0.01

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.28	45	67679	26.91018 ppb	95

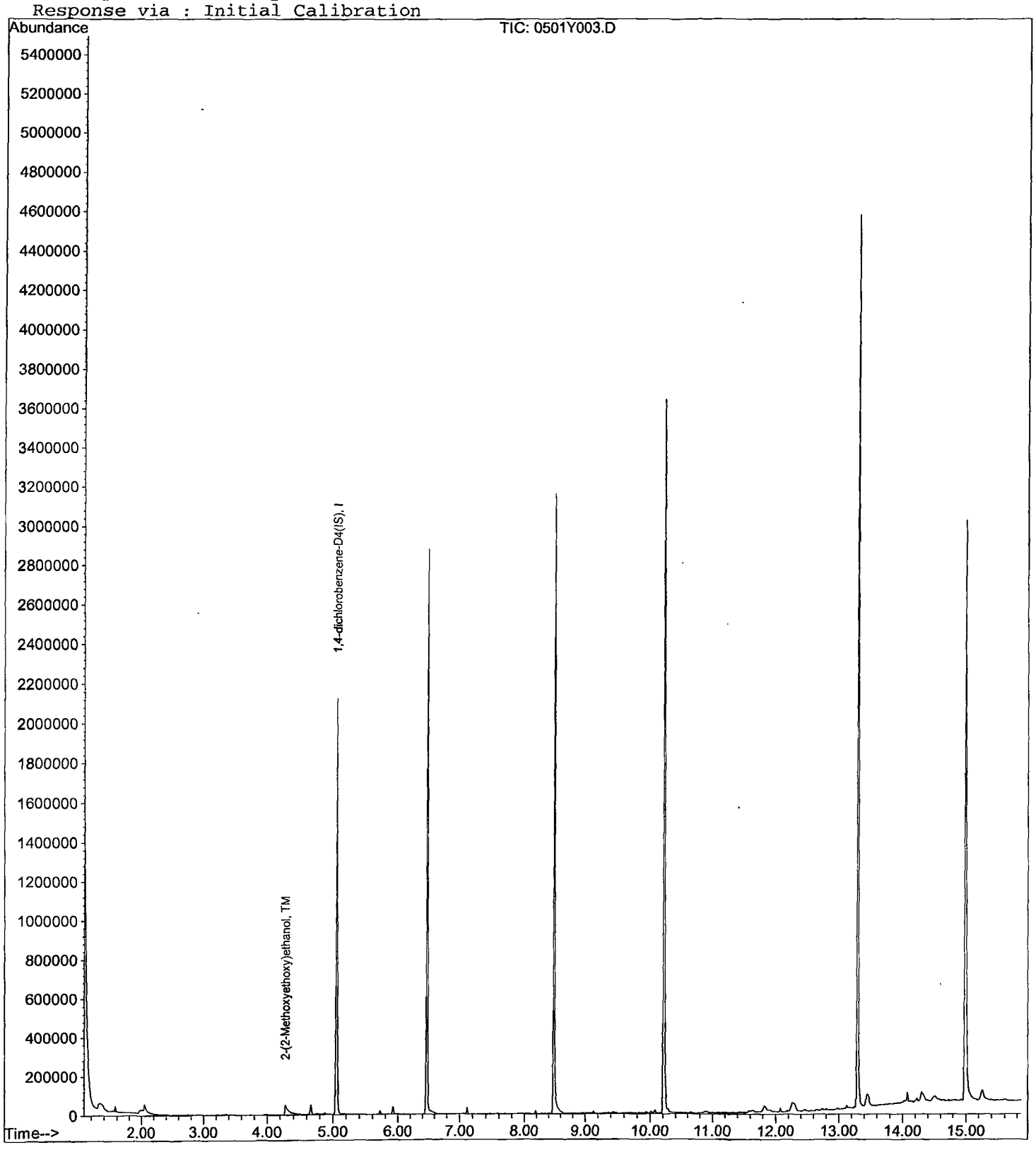
(#) = qualifier out of range (m) = manual integration
0501Y003.D YMEE0501.M Fri May 01 14:33:06 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y003.D Vial: 39
Acq On : 1 May 20 9:39 Operator: MA,SS
Sample : 50ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y004.D Vial: 40
Acq On : 1 May 20 10:03 Operator: MA,SS
Sample : 100ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	358512	40.00000 ppb	-0.01
System Monitoring Compounds					
Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	163785	77.78322 ppb	99

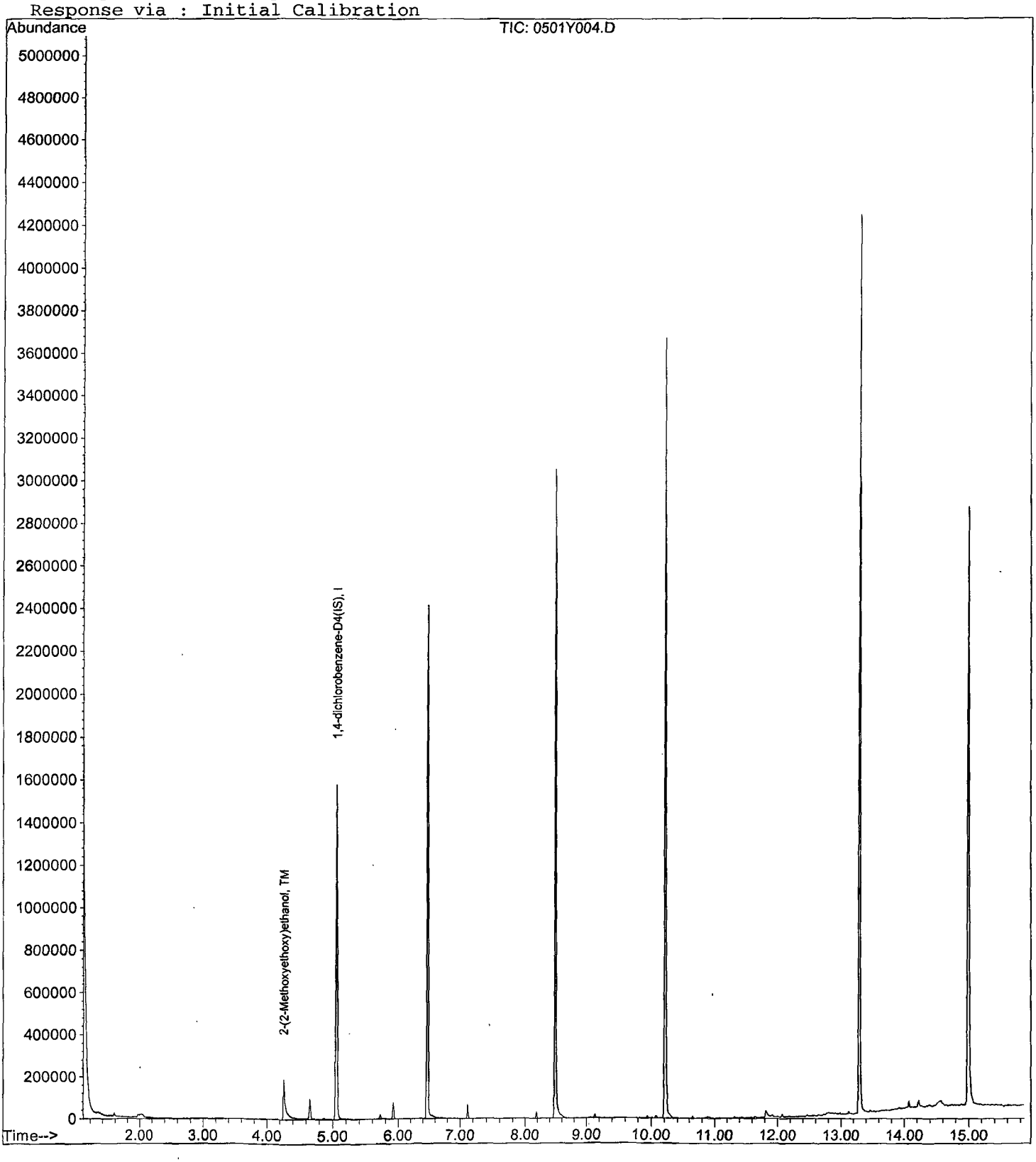
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y004.D Vial: 40
Acq On : 1 May 20 10:03 Operator: MA,SS
Sample : 100ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y006.D Vial: 42
Acq On : 1 May 20 10:51 Operator: MA,SS
Sample : 200ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	431824	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	318364	125.52571	ppb	98

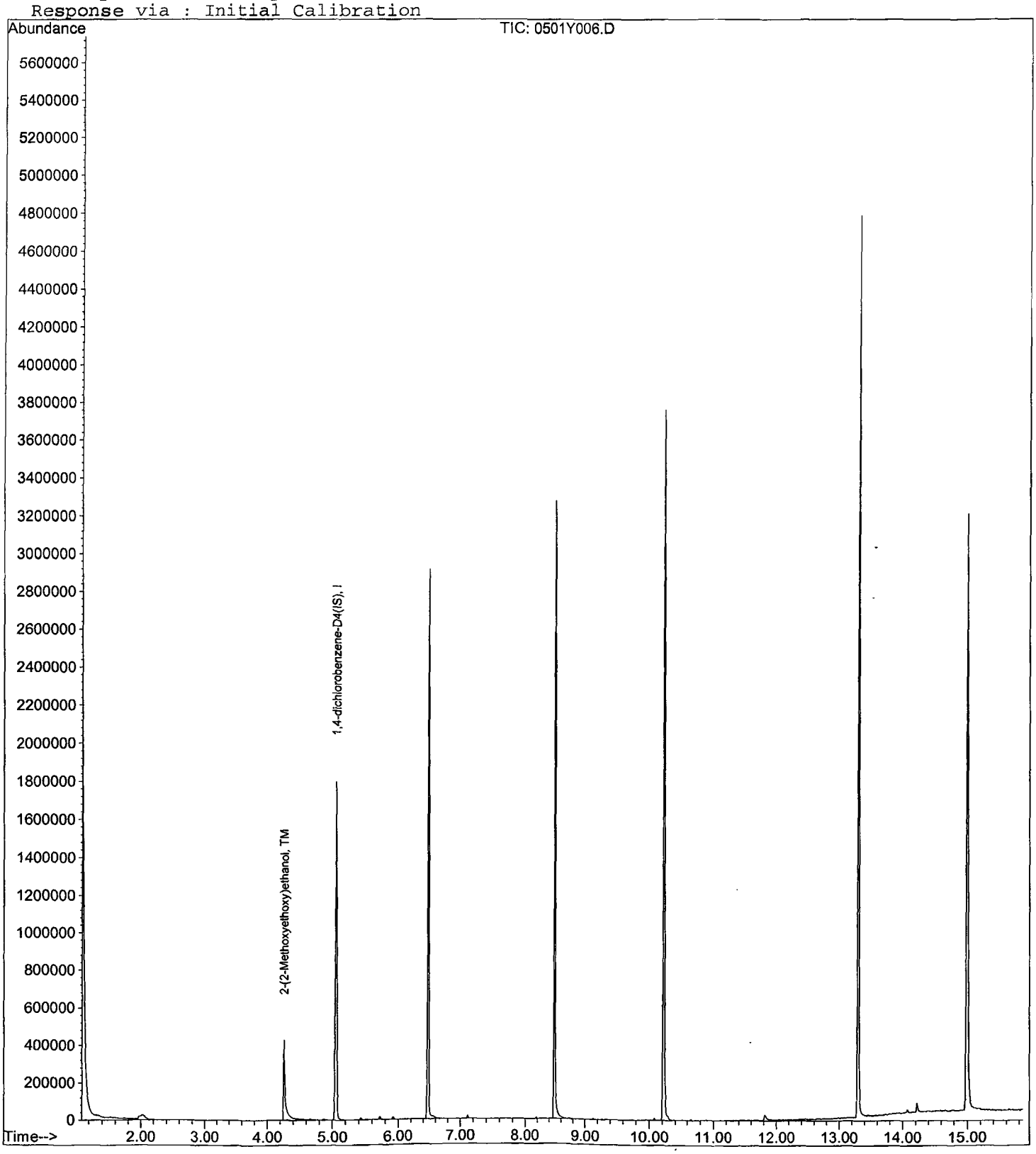
(#) = qualifier out of range (m) = manual integration
0501Y006.D YMEE0501.M Fri May 01 14:33:15 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y006.D Vial: 42
Acq On : 1 May 20 10:51 Operator: MA,SS
Sample : 200ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y007.D Vial: 7
Acq On : 1 May 20 11:24 Operator: MA,SS
Sample : 400ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	425852	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	692148	276.72970	ppb	99

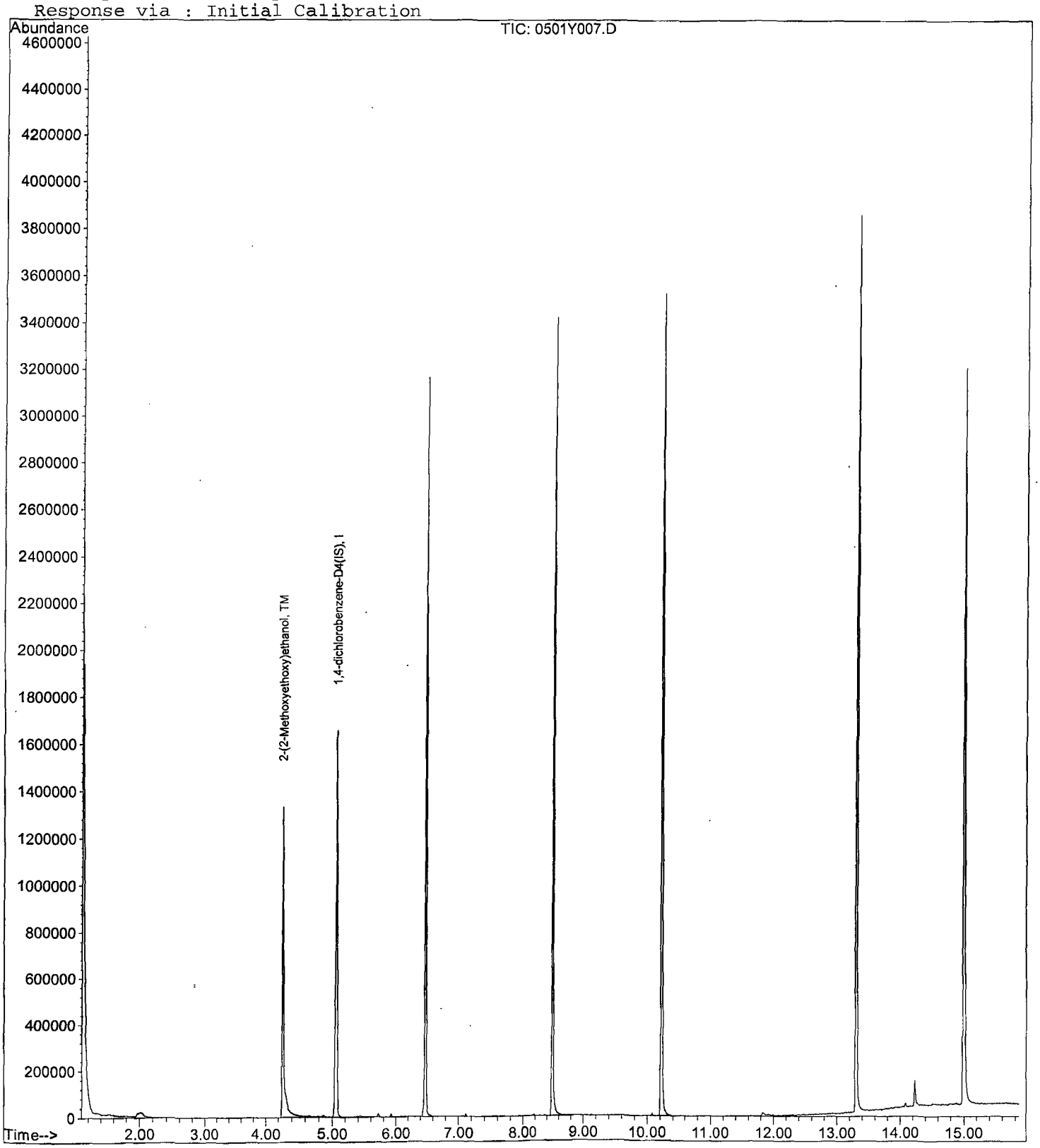
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y007.D Vial: 7
Acq On : 1 May 20 11:24 Operator: MA,SS
Sample : 400ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 11:49 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y008.D Vial: 8
Acq On : 1 May 20 11:48 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:16 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 12:15:50 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.07	152	483204	40.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.28	45	818058	442.11333 ppb	100

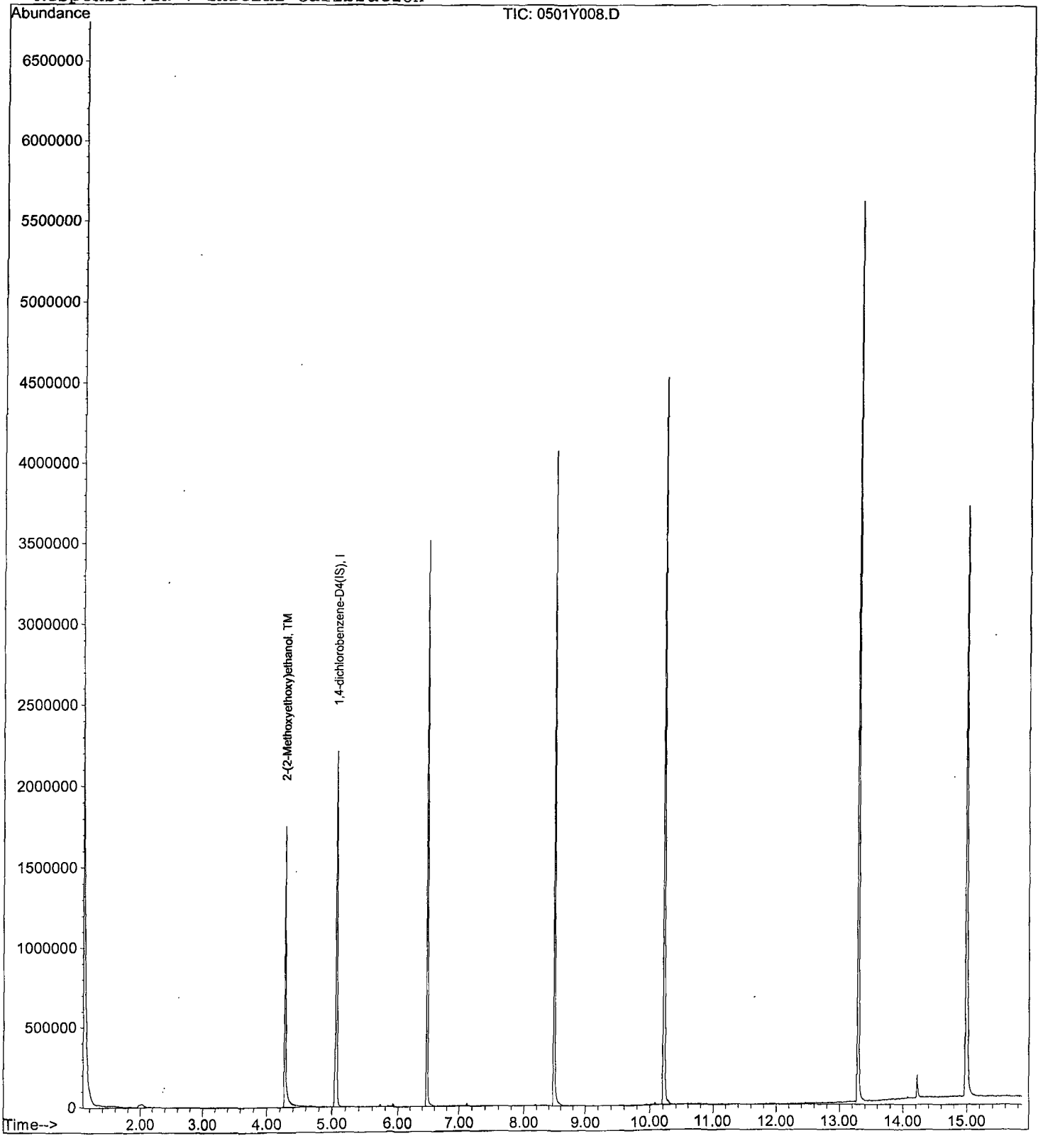
(#) = qualifier out of range (m) = manual integration
0501Y008.D YMEE0501.M Fri May 01 14:33:24 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y008.D Vial: 8
Acq On : 1 May 20 11:48 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:16 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y009.D Vial: 9
Acq On : 1 May 20 12:13 Operator: MA,SS
Sample : 600ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:14 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 11:48:44 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	445147	40.00000	ppb	-0.01
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.27	45	1097935	518.98742	ppb	99

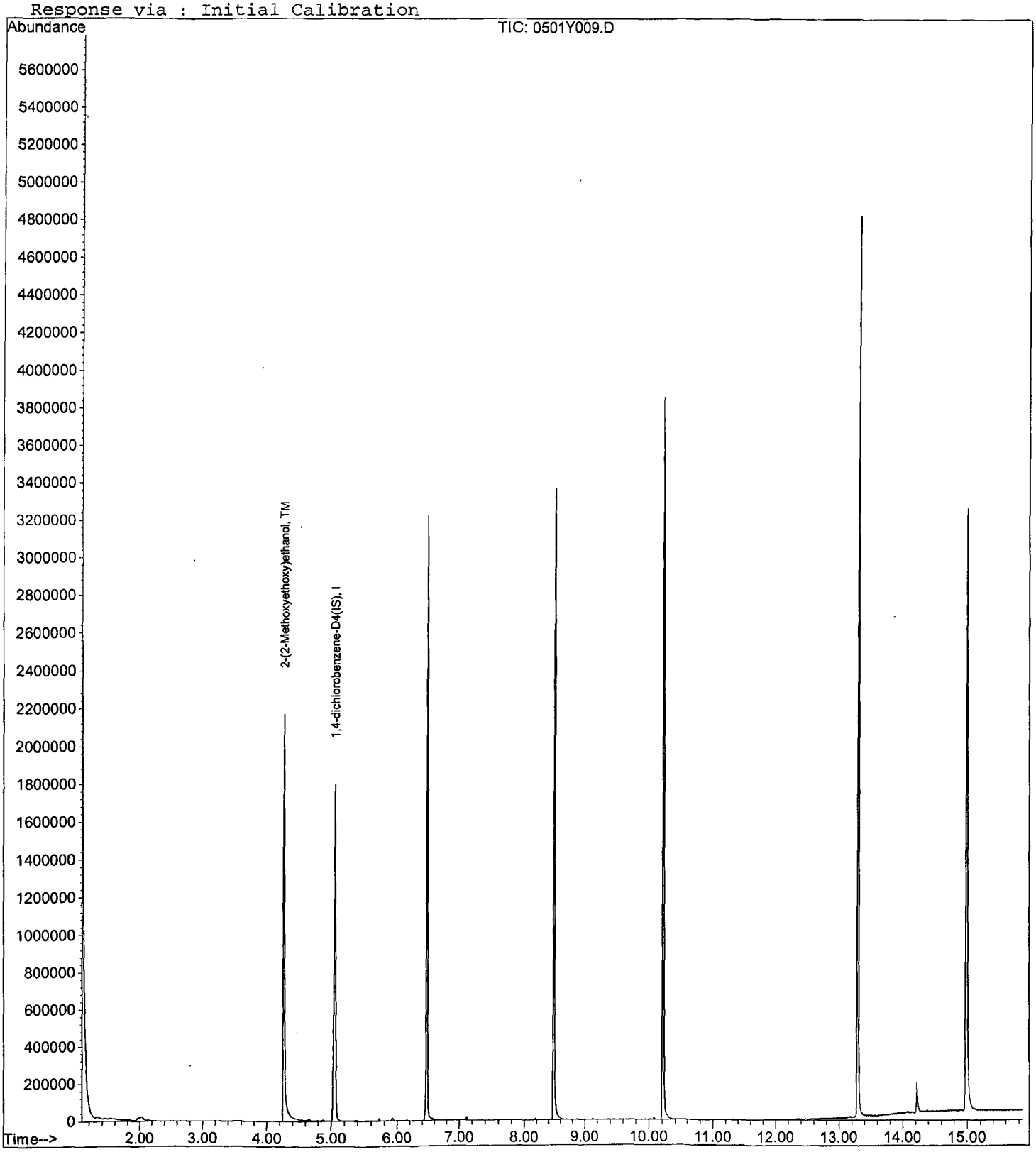
(#) = qualifier out of range (m) = manual integration
0501Y009.D YMEE0501.M Fri May 01 14:33:29 2020

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y009.D Vial: 9
Acq On : 1 May 20 12:13 Operator: MA,SS
Sample : 600ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:14 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y010.D Vial: 10
Acq On : 1 May 20 12:37 Operator: MA,SS
Sample : 800ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:36 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 12:15:50 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.07	152	461483	40.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.30	45	1469246	831.41690	ppb	99

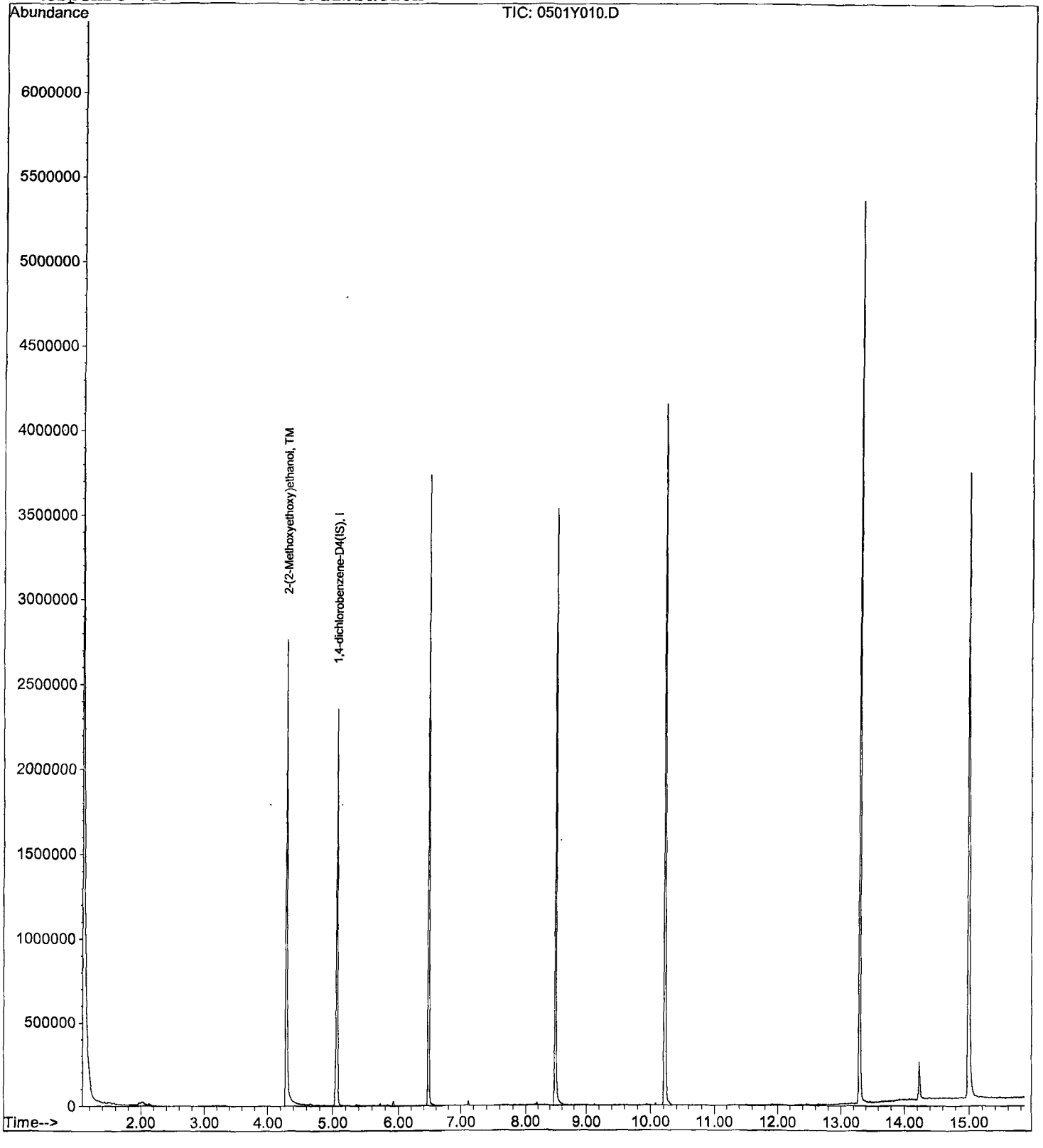
(#) = qualifier out of range (m) = manual integration
0501Y010.D YMEE0501.M Fri May 01 14:33:33 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y010.D Vial: 10
Acq On : 1 May 20 12:37 Operator: MA,SS
Sample : 800ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 12:36 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y011.D Vial: 11
Acq On : 1 May 20 13:01 Operator: MA,SS
Sample : 1000ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 13:03 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 12:15:50 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	445958	40.00000 ppb	-0.01

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.29	45	2014018	1172.78870 ppb	100

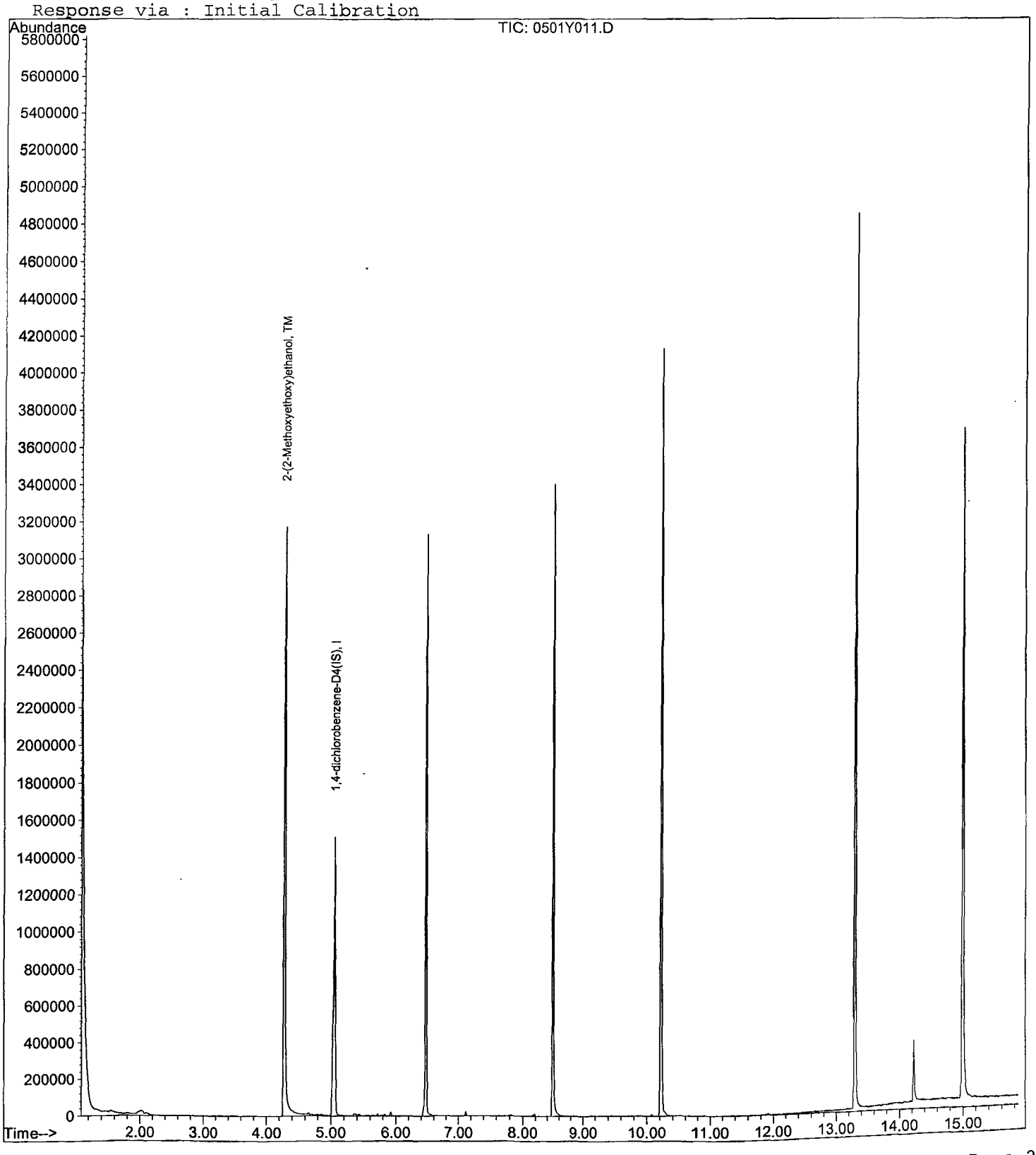
(#) = qualifier out of range (m) = manual integration
0501Y011.D YMEE0501.M Fri May 01 14:33:38 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y011.D Vial: 11
Acq On : 1 May 20 13:01 Operator: MA,SS
Sample : 1000ug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 13:03 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Second Source

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 1 May 20 13:50
Instrument: Yoda
Initial Cal. Date: 05/01/20
Data File: 0501Y013.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TM	2-(2-Methoxyethoxy)ethanol	0.1574	0.1794	14	TM	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
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19							
20							
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26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			14.0		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y013.D Vial: 13
Acq On : 1 May 20 13:50 Operator: MA,SS
Sample : SSug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 14:30 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.06	152	461050	40.00000 ppb	-0.01

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.26	45	1033684	569.91471 ppb	100

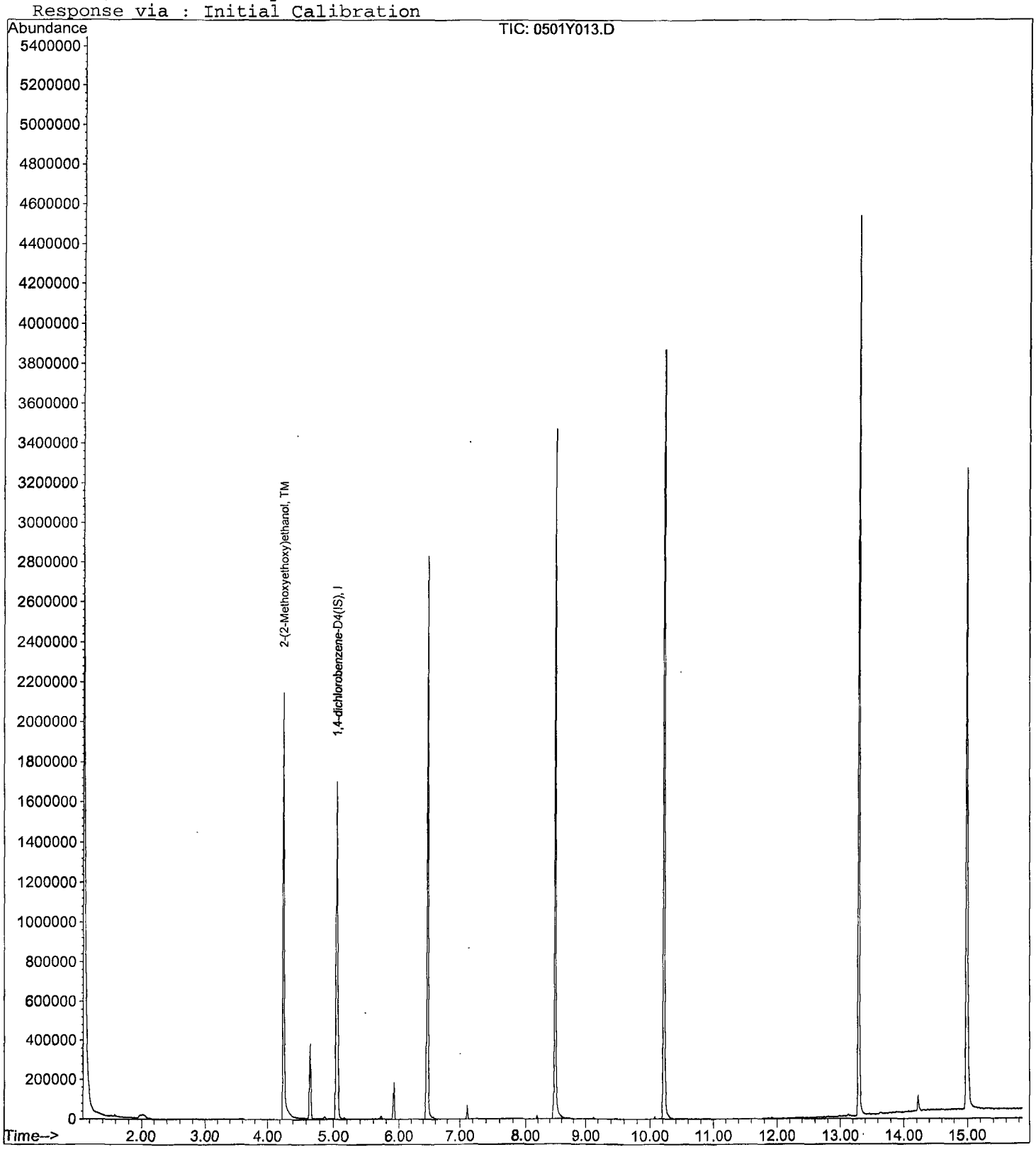
(#) = qualifier out of range (m) = manual integration
0501Y013.D YMEE0501.M Fri May 01 14:33:42 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y013.D Vial: 13
Acq On : 1 May 20 13:50 Operator: MA,SS
Sample : SSug/ml MEE 05/01/20 Inst : Yoda
Misc : soil Multiplr: 1.00

Quant Time: May 1 14:30 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri May 01 13:05:24 2020
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/27/20
Instrument: Yoda
Initial Cal. Date: 05/01/20
Data File: 0501Y131.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TM	2-(2-Methoxyethoxy)ethanol	0.1574	0.1503	4.5	TM	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.5		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y131.D Vial: 31
Acq On : 27 Oct 20 10:42 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:39 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.37	152	179268	40.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.57	45	336817	477.59672 ppb	95

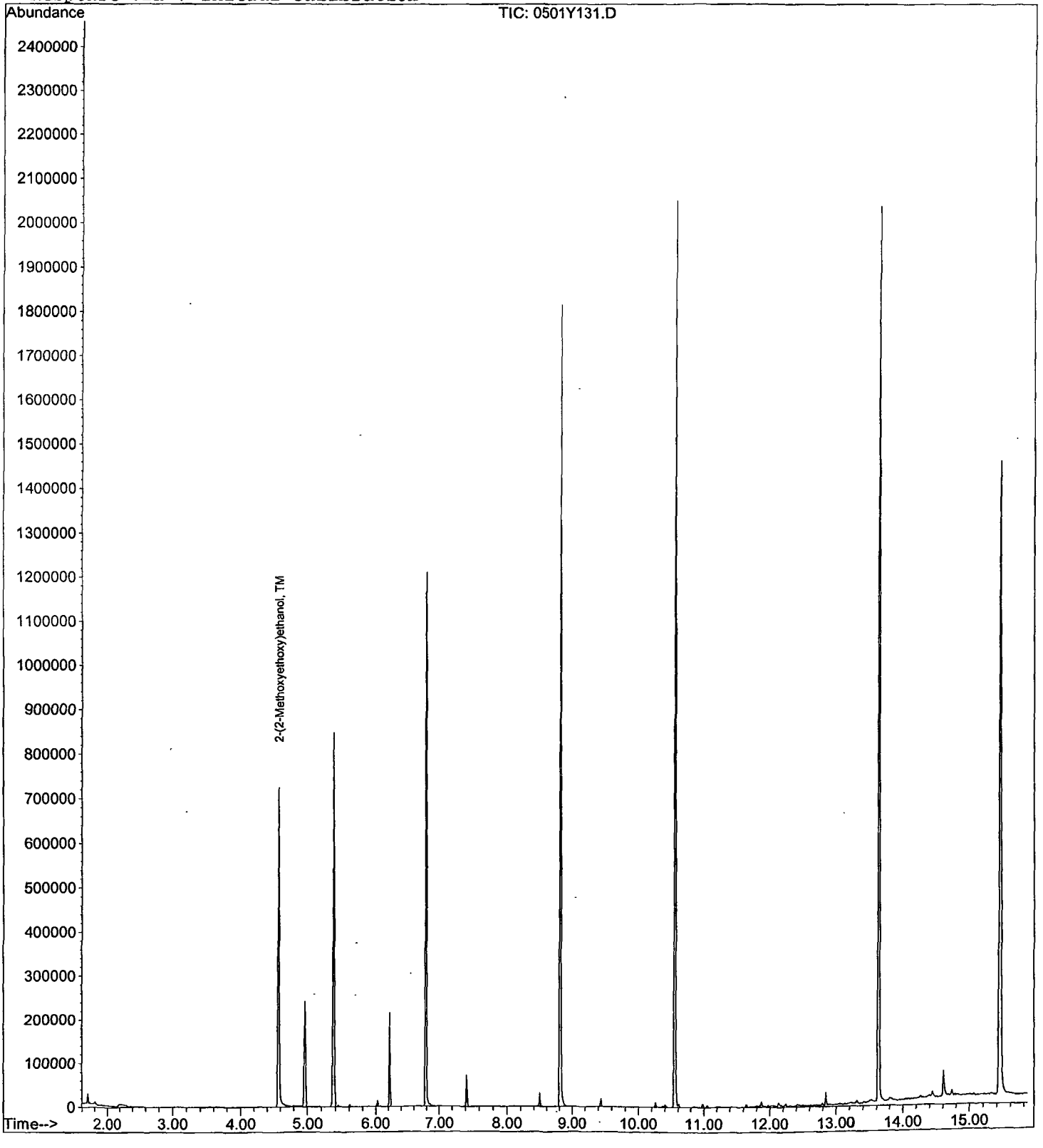
(#) = qualifier out of range (m) = manual integration
0501Y131.D YMEE0501.M Tue Oct 27 10:45:22 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y131.D Vial: 31
Acq On : 27 Oct 20 10:42 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:39 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/27/20
Instrument: Yoda
Initial Cal. Date: 05/01/20
Data File: 0501Y141.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TM	2-(2-Methoxyethoxy)ethanol	0.1574	0.1707	8.5	TM	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
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26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			8.5		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y141.D Vial: 41
Acq On : 27 Oct 20 14:38 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 14:57 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 27 14:57:12 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.37	152	143100	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

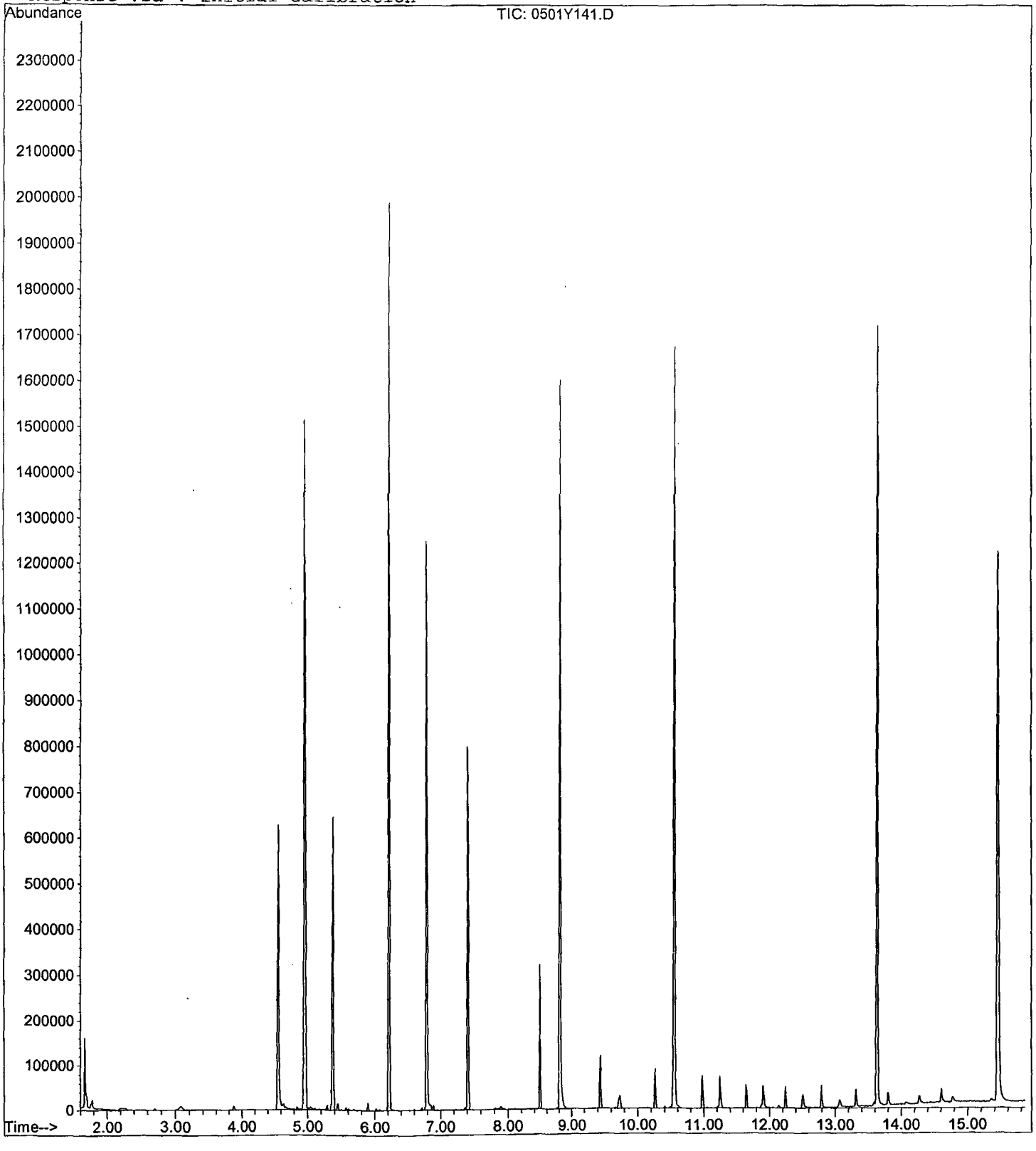
(#) = qualifier out of range (m) = manual integration
0501Y141.D YMEE0501.M Tue Oct 27 14:57:59 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y141.D Vial: 41
Acq On : 27 Oct 20 14:38 Operator: MA,SS
Sample : 500ug/ml MEE 05/01/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 14:57 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 27 14:57:12 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y134.D Vial: 34
Acq On : 27 Oct 20 11:53 Operator: MA,SS
Sample : BA20486W12 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:24 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.37	152	171519	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

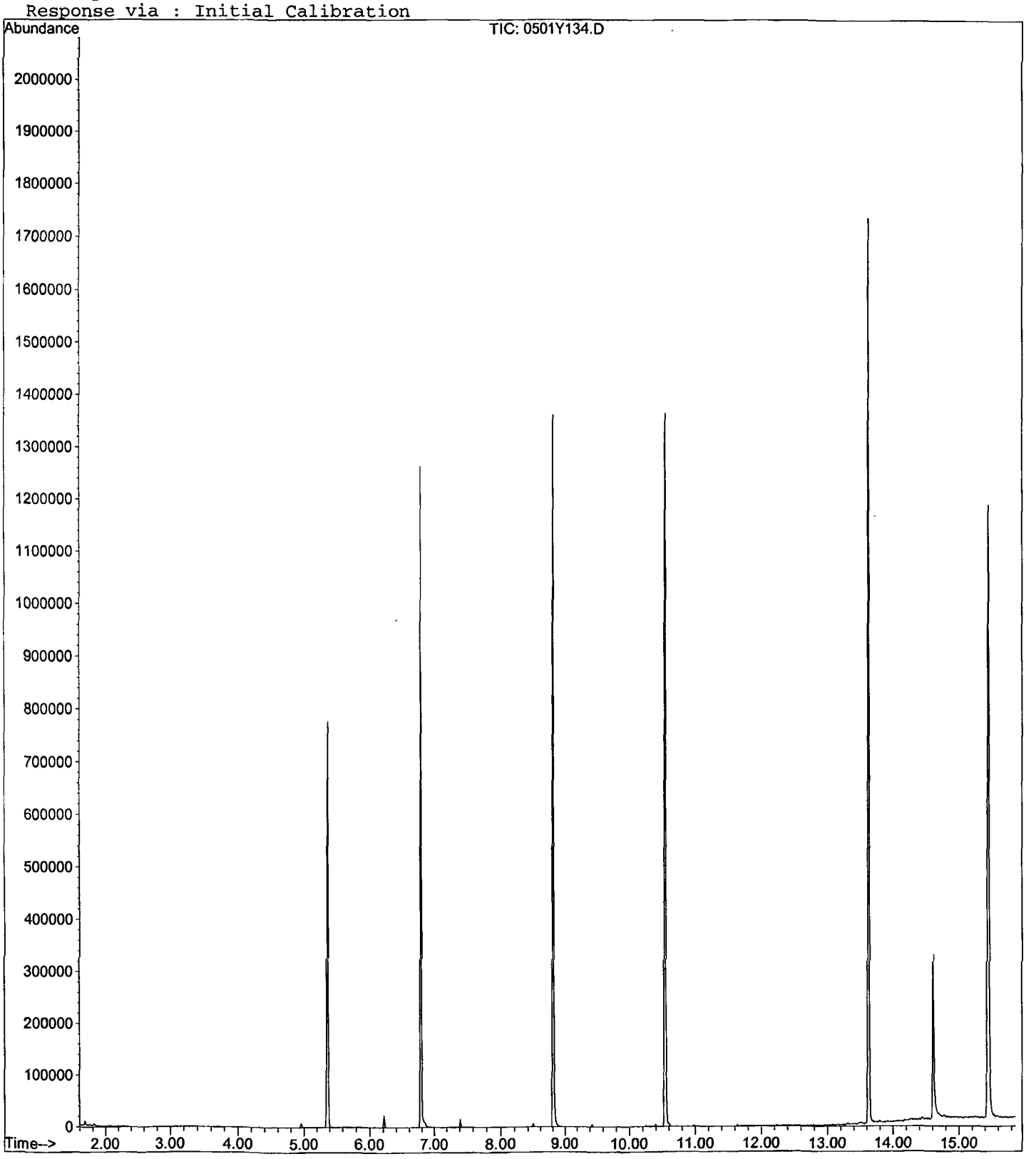
(#) = qualifier out of range (m) = manual integration
0501Y134.D YMEE0501.M Mon Nov 09 16:26:10 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y134.D Vial: 34
Acq On : 27 Oct 20 11:53 Operator: MA,SS
Sample : BA20486W12 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:24 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 27 14:58:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y132.D Vial: 32
Acq On : 27 Oct 20 11:06 Operator: MA,SS
Sample : 201026A BLK 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:09 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.36	152	175209	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

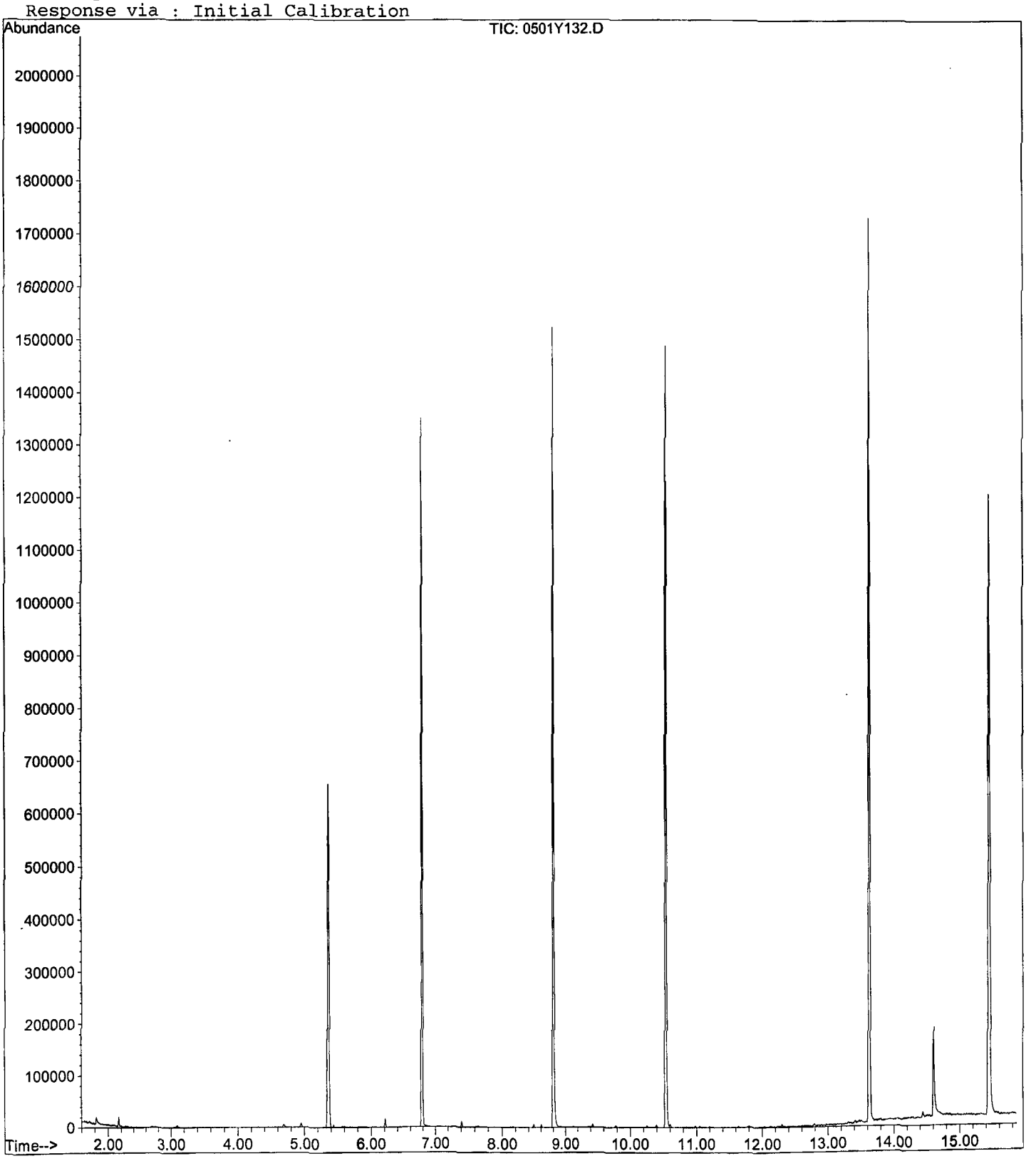
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y132.D Vial: 32
Acq On : 27 Oct 20 11:06 Operator: MA,SS
Sample : 201026A BLK 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:09 2020 Quant Results File: YMEE0501.RES

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 27 14:58:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y200501M\0501Y133.D Vial: 33
Acq On : 27 Oct 20 11:30 Operator: MA,SS
Sample : 201026A LCS-1 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:48 2020 Quant Results File: YMEE0501.RES

Quant Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Oct 21 09:09:54 2020
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.36	152	187647	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.64	45	48205	65.30111	ppb	96

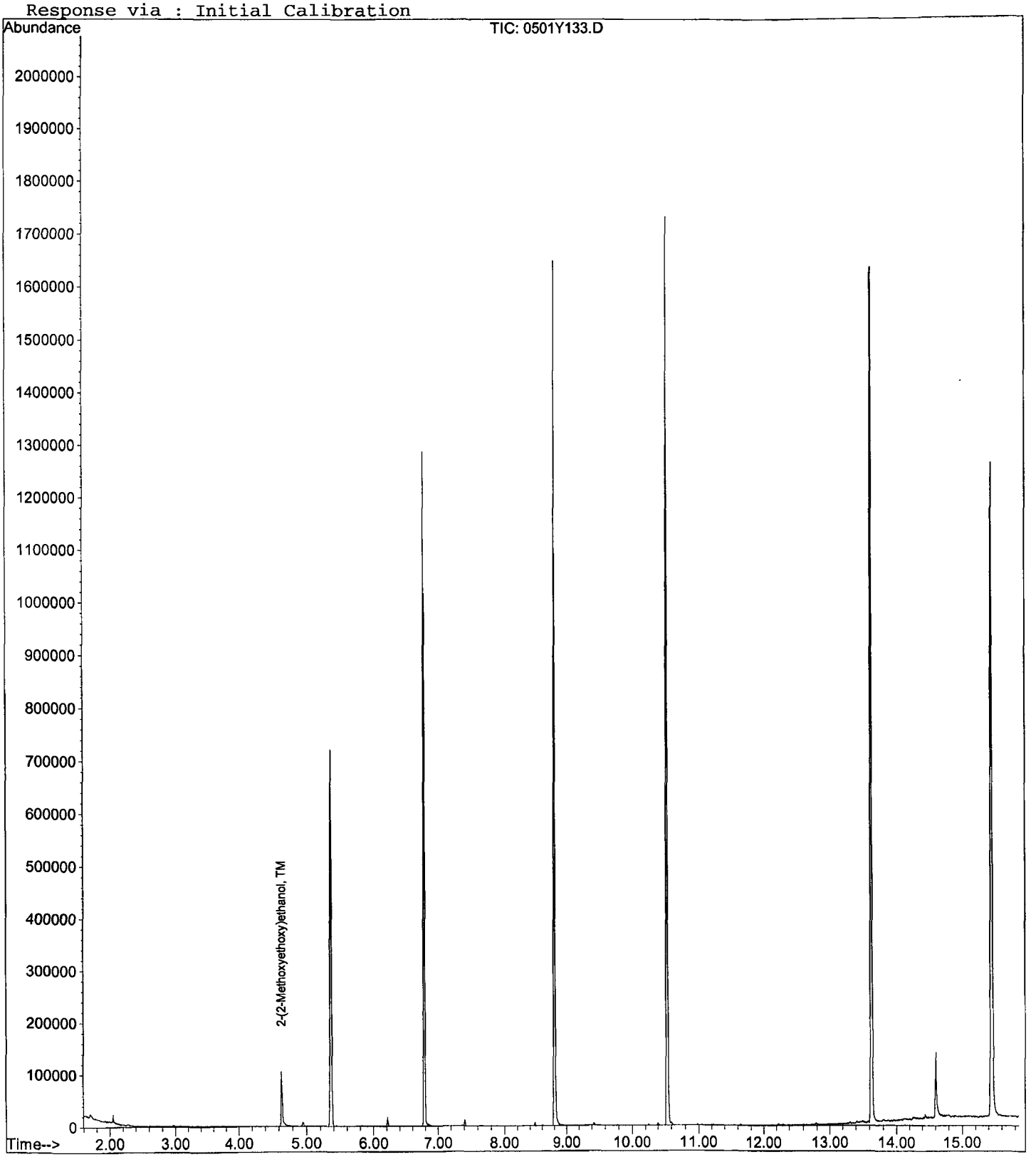
(#) = qualifier out of range (m) = manual integration
0501Y133.D YMEE0501.M Mon Nov 09 16:26:06 2020 Page 1

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y133.D Vial: 33
Acq On : 27 Oct 20 11:30 Operator: MA,SS
Sample : 201026A LCS-1 2/500 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:48 2020 Quant Results File: YMEE0501.RES

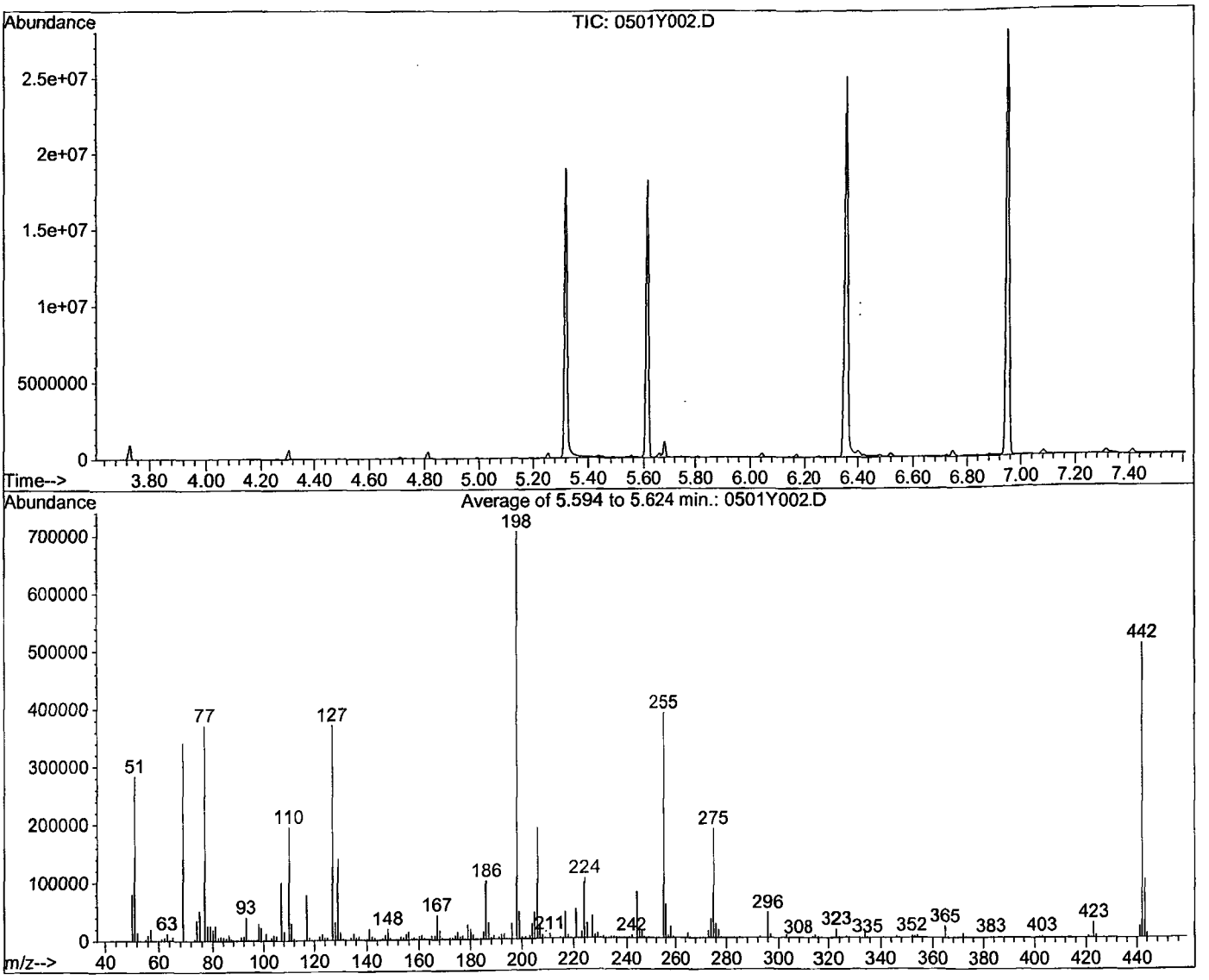
Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 27 14:58:10 2020
Response via : Initial Calibration



DFTPP

Data File : M:\YODA\DATA\Y200501M\0501Y002.D Vial: 38
Acq On : 1 May 20 9:23 Operator: MA,SS
Sample : SV TUNE 10/01/19 Inst : Yoda
Misc : soil Multiplr: 1.00

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C



Spectrum Information: Average of 5.594 to 5.624 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.1	283365	PASS
68	69	0.00	2	0.0	30	PASS
70	69	0.00	2	0.5	1711	PASS
127	198	10	80	52.5	370953	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	706767	PASS
199	198	5	9	6.8	48387	PASS
275	198	10	60	26.7	188525	PASS
365	198	1	100	2.8	20013	PASS
441	442	0.01	24	3.9	19955	PASS
442	198	50	500	71.6	506304	PASS
443	442	15	24	19.8	100283	PASS

Data File Name:	**0501Y002.D**
Data File Path:	**M:\YODA\DATA\Y200501M**
Operator:	**MA,SS**
Date Acquired:	**1 May 20 9:23**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/01/19**
Vial Number:	**38**
Instrument Name:	**Yoda**

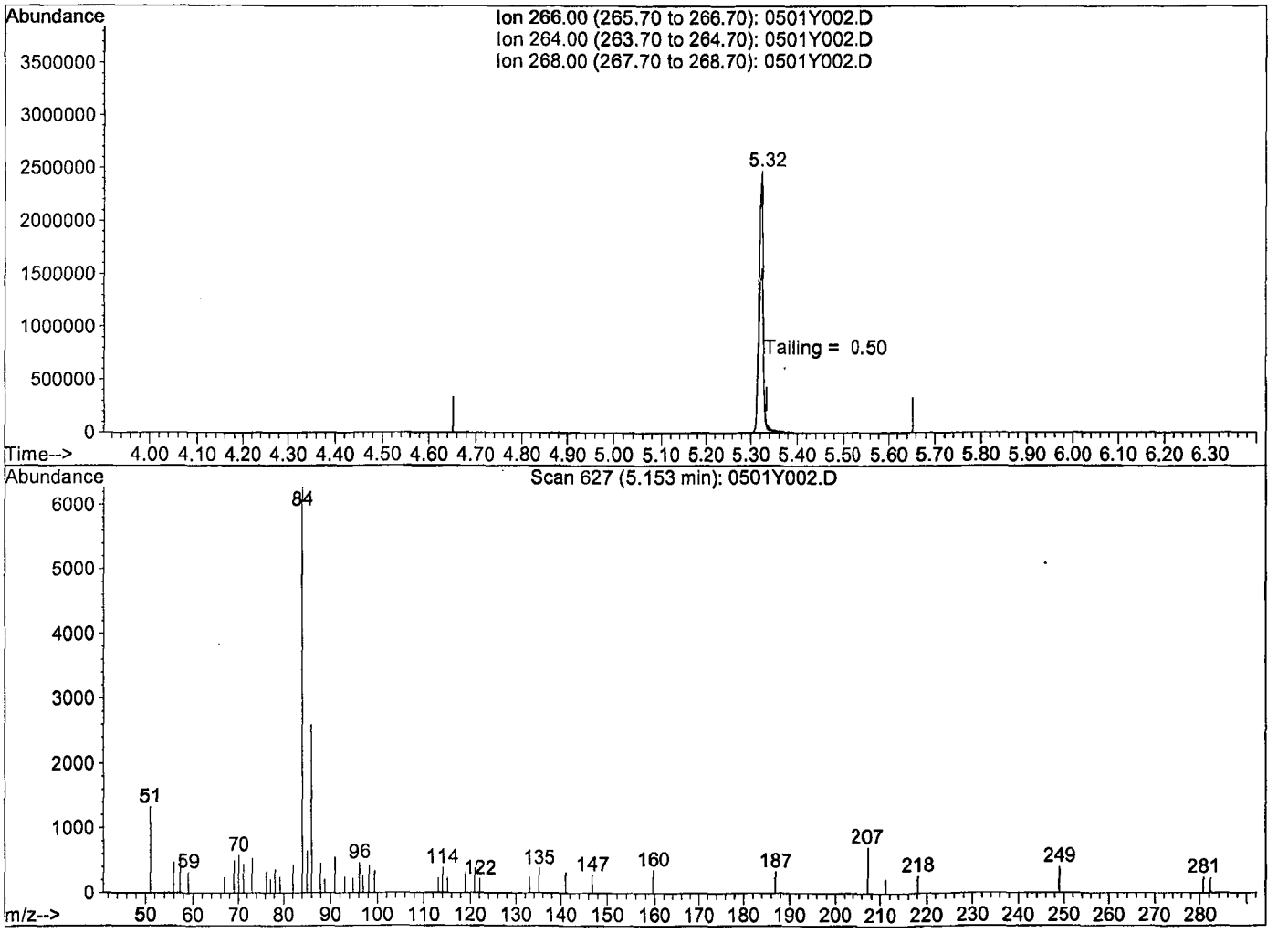
#	Name	Ret Time	Target Response
1)	DDT	6.95	212314000
2)	DDD	6.72	691986
3)	DDE	6.31	0

Breakdown **0.32**

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y002.D Vial: 38
Acq On : 1 May 20 9:23 Operator: MA,SS
Sample : SV TUNE 10/01/19 Inst : Yoda
Misc : soil Multiplr: 1.00
Quant Time: Aug 7 11:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 22 08:17:43 2020
Response via : Single Level Calibration



TIC: 0501Y002.D

(5) Pentachlorophenol

5.15min 0.0000

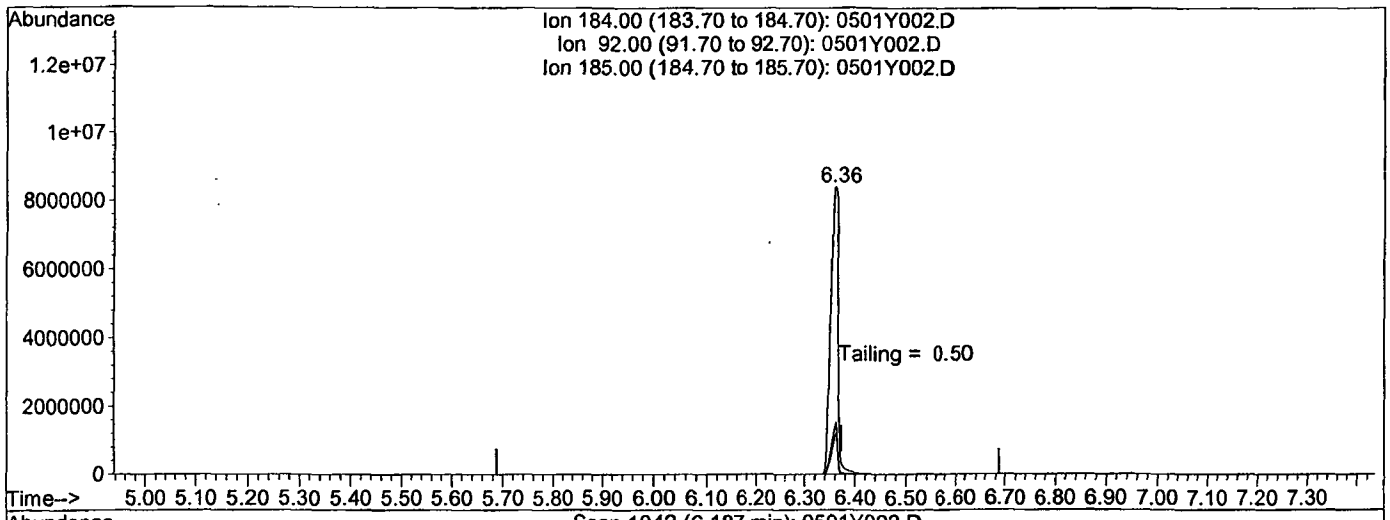
response 0

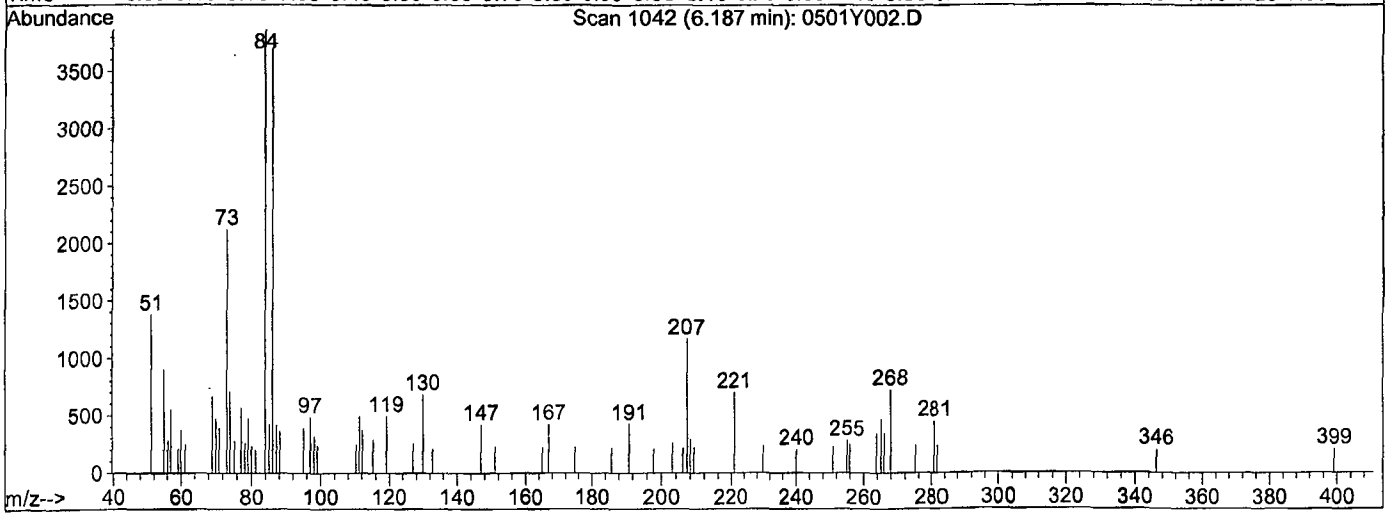
Ion	Exp%	Act%
266.00	100	0.00
264.00	63.90	0.00#
268.00	65.20	0.00#
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y002.D Vial: 38
Acq On : 1 May 20 9:23 Operator: MA,SS
Sample : SV TUNE 10/01/19 Inst : Yoda
Misc : soil Multiplr: 1.00
Quant Time: Aug 7 11:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 22 08:17:43 2020
Response via : Single Level Calibration





TIC: 0501Y002.D

(6) Benzidine

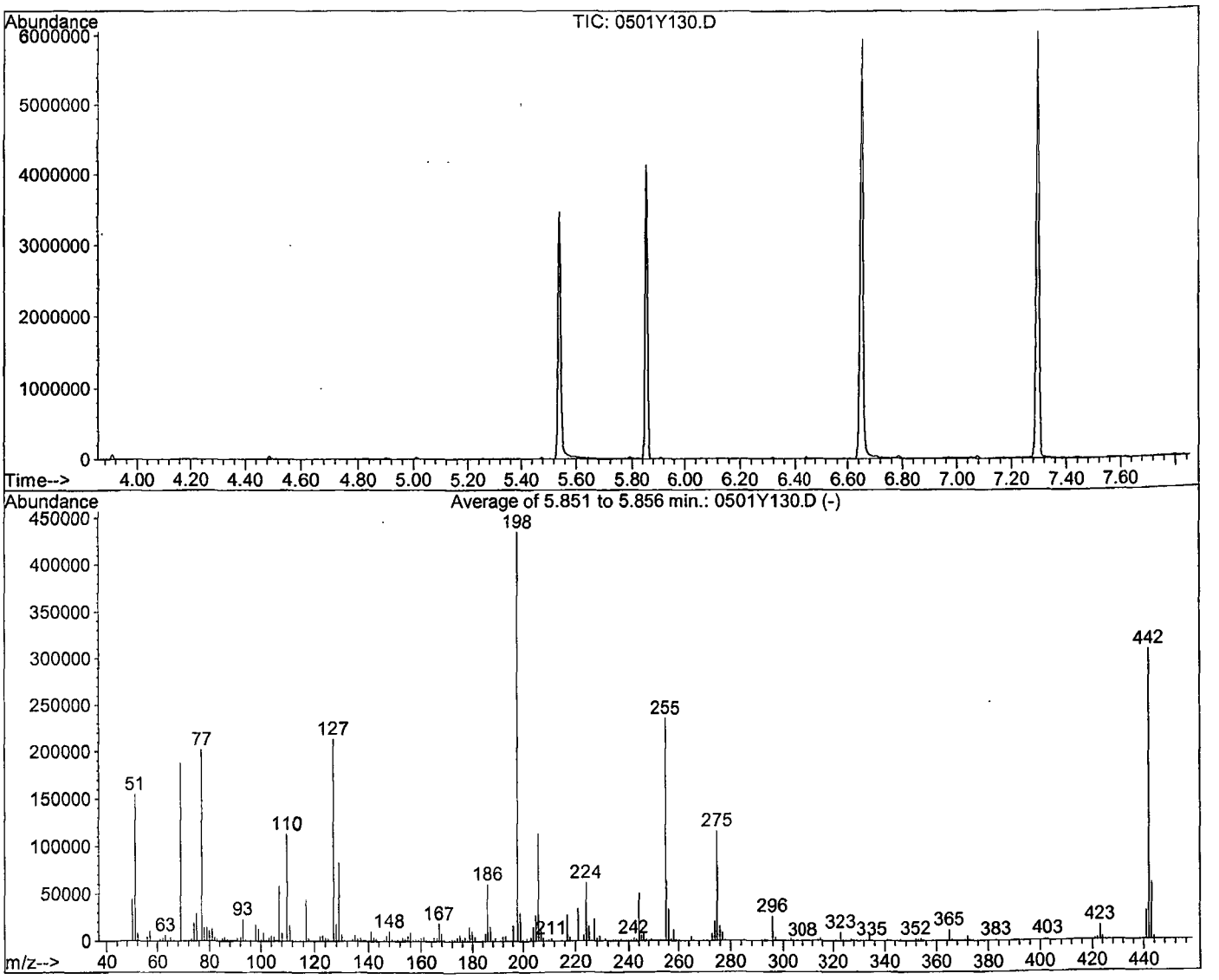
6.19min 0.0000

response 0

Ion	Exp%	Act%
184.00	100	0.00
92.00	10.00	0.00#
185.00	14.30	0.00#
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y200501M\0501Y130.D Vial: 30
Acq On : 27 Oct 20 10:27 Operator: MA,SS
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00

Method : M:\YODA\DATA\Y200501M\YMEE0501.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 907, 908, 909; Background Corrected with Scan 897

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.6	154901	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	525	PASS
127	198	10	80	49.1	213632	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	435072	PASS
199	198	5	9	6.9	30229	PASS
275	198	10	60	26.6	115739	PASS
365	198	1	100	2.7	11719	PASS
441	442	0.01	24	10.1	31128	PASS
442	198	50	500	70.8	308203	PASS
443	442	15	24	19.9	61299	PASS

0501Y130.D YMEE0501.M Tue Oct 27 10:23:09 2020

Data File Name:	**0501Y130.D**
Data File Path:	**M:\YODA\DATA\Y200501M**
Operator:	**MA,SS**
Date Acquired:	**27 Oct 2020 10:27**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 10/02/20**
Vial Number:	**30**
Instrument Name:	**Yoda**

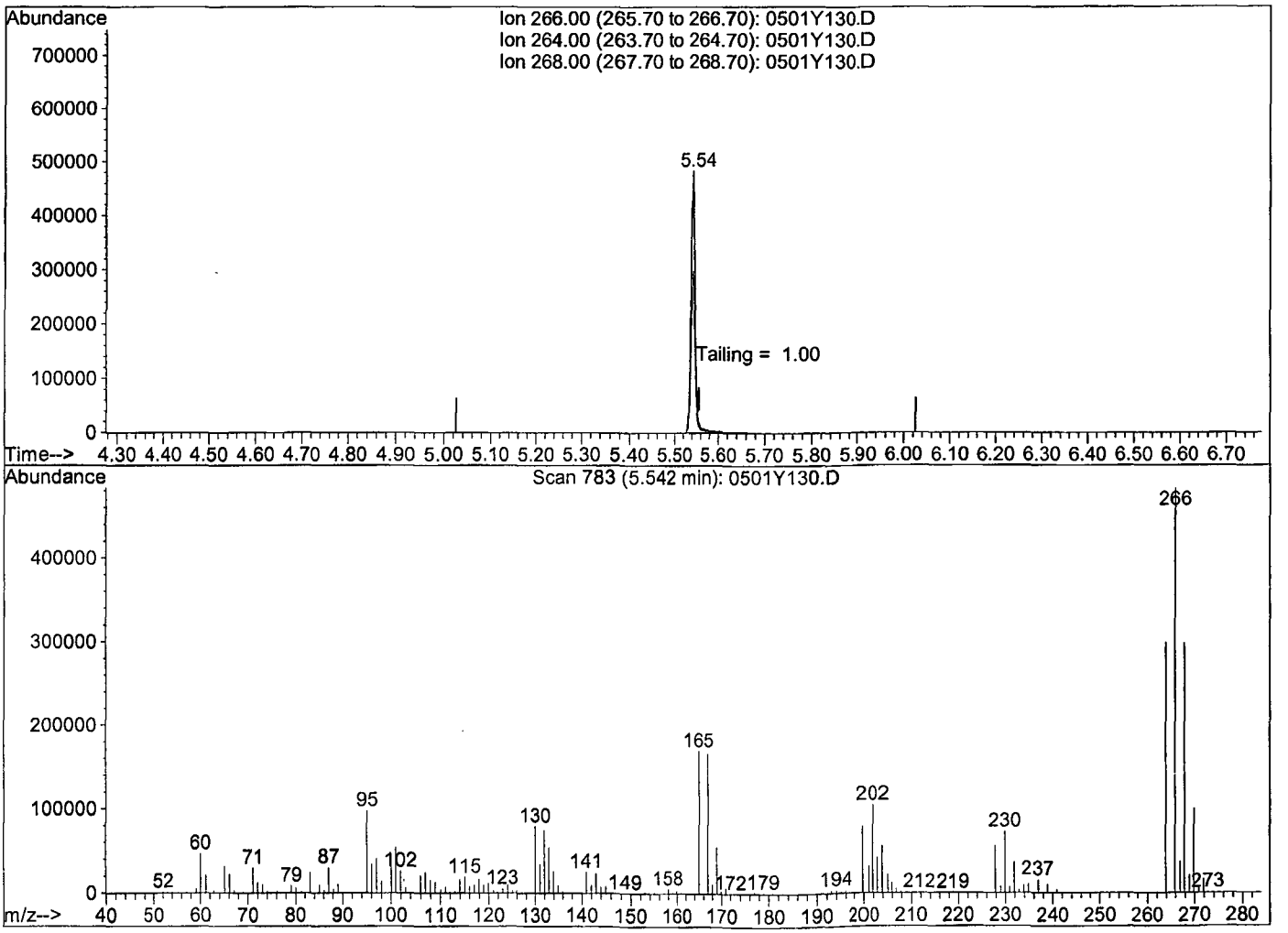
#	Name	Ret Time	Target Response
1)	DDT	7.26	43718800
2)	DDD	7.02	171303
3)	DDE	5.93	110298

Breakdown **0.64**

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y130.D Vial: 30
Acq On : 27 Oct 20 10:27 Operator: MA,SS
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 27 10:23 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration



TIC: 0501Y130.D

(5) Pentachlorophenol

5.54min 0.0000

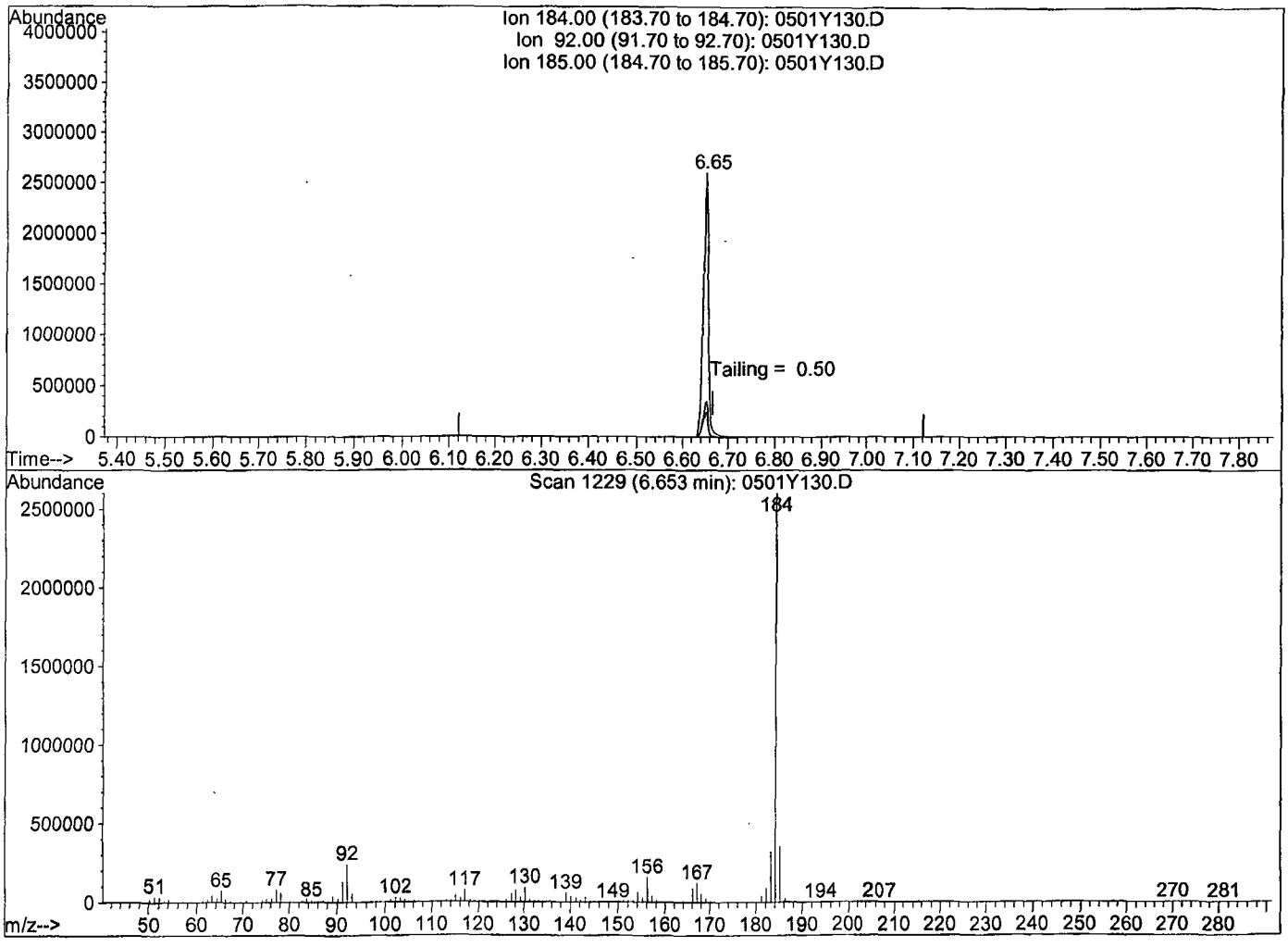
response 3260744

Ion	Exp%	Act%
266.00	100	100
264.00	63.10	60.14
268.00	65.40	62.42
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y200501M\0501Y130.D Vial: 30
Acq On : 27 Oct 20 10:27 Operator: MA,SS
Sample : SV TUNE 10/02/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 27 10:23 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y200501M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Fri Oct 09 10:49:12 2020
Response via : Single Level Calibration



TIC: 0501Y130.D

(6) Benzidine

6.65min 0.0000

response 20586609

Ion	Exp%	Act%
184.00	100	100
92.00	8.50	9.73
185.00	13.80	14.28
0.00	0.00	0.00

Name of Final Standard: MEE Curve
Prep Date: 05/01/20
Exp Date: 11/06/20
Prep'd By (Initials): CD

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	5 uL	200uL	Methanol 195uL Lot# 235140	50 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	4 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	5 uL	100uL	Methanol 95uL Lot# 235140	100 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	10 uL	100uL	Methanol 90uL Lot# 235140	200 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	20 uL	100uL	Methanol 80 uL Lot# 235140	400 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	50 uL	200 uL	Methanol 150 uL Lot# 235140	500 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	4 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	30 uL	100uL	Methanol 70 uL Lot# 235140	600 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	40 uL	100uL	Methanol 60 uL Lot# 235140	800 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/06/19	11/06/20	50 uL	100uL	Methanol 50uL Lot# 235140	1000 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	03/03/20	03/03/21	2 uL	*	*	*

Name of Final Standard: MEE Second Source
Prep Date: 05/01/20
Exp Date: 11/06/20
Prep'd By (Initials): MA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	11/06/19	11/06/20	50 uL	200uL	Methanol 150uL Lot# 235140	500 ug/mL
SV Internal Standard	APPL	8277 Internal Standard	2000 ug/mL	03/03/20	03/03/21	4 uL	*	*	*

Name of Final Standard	Diethylene Glycol
Prep Date	**11/05/19**
Exp Date	**11/05/20**

Prep'd By (Initials) **MA**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Diethylene glycol methyl ether	AccuStandard	S-72273	2000 ug/mL	**218101558-39890**	**12/01/20**	1.0 mL	2 mL	Methanol #208858	1000 ug/mL

Given to Extraction to **do MEE M STD Stock** (used for ICAL) Final concentration 2000ug/L

Name of Final Standard 2MEE Second Source Stock

Prep'd By (Initials) JP

Prep Date 10/28/19

Exp Date 10/28/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	**7079100 - 39417**	**07/31/22**	0.1022g	10 mL	**MC #56258**	10220 ug/mL

Given to Extraction to do **MEE SS** (used for ICAL SS)

0.097ml were spiked in 500ml of water and extracted on 04/29/19 . Final concentration is 2000ug/L

Name of Final Standard **8270 Internal Standard Ampules (2)** Prep'd By (Initials) **MA**

Prep Date	11/20/19
Exp Date	11/20/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile Internal Standard	Restek	31206	2000 ug/mL	**AO157142-49871,872,873**	**07/31/25**	3 mL	3 mL	**NA**	2000ug/mL

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	201026A	Extraction Method	MWE2MEE	Units	mL

Spiked ID 1	Diethylene Glycol 04/29/20 ex 12/1/20		Surrogate ID 1		
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:	10/26/20 8:25	
Spiked ID 8			Ext. End Time:	10/27/20 10:45	
			GC Requires Extract By:		

pH1			Water Bath Temp 1 °C	
pH2			Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: DL **Date** 10/27/20 10:50:08 AM **Witnessed By:** CFM **Date** 10/27/20 10:50:15 AM

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201026A Blk				NA	NA equip	500	2	7	10/26/20 8:25	
2	201026A LCS-1		0.040	1	NA	NA equip	500	2	7	10/26/20 8:25	
3	BA20486	BA20486W12			NA	NA equip	500	2	7	10/26/20 8:25	93803
4	BA20539 MS-1	BA20539W15	0.040	1	NA	NA equip	500	2	7	10/26/20 8:25	93818
5	BA20539 MSD-1	BA20539W14	0.040	1	NA	NA equip	500	2	7	10/26/20 8:25	93818
6	BA20539	BA20539W22			NA	NA equip	500	2	7	10/26/20 8:25	93818
7	BA20541	BA20541W07			NA	NA equip	500	2	7	10/26/20 8:25	93818
8	BA20542	BA20542W08			NA	NA equip	500	2	7	10/26/20 8:25	93818
9	BA20544	BA20544W10			NA	NA equip	500	2	7	10/26/20 8:25	93818
10	BA20716	BA20716W12			NA	NA equip		2	7Y		93873
11	BA20718	BA20718W15			NA	NA equip		2	7Y		93873
12	BA20719	BA20719W10			NA	NA equip		2	7Y		93873

Solvent and Lot#	
ENVIRO-CLEAN CARTRIDGE	8501193-EY
PH Strip	.HC904495
Di Water	.10-27-20
Methanol:DCM 80:20 PREP	.8/4/20

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	MA
Date	10/27/20
Time	11:00
Refrigerator	GC_C

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL

Modified	10/27/20 11:04:55 AM

Reviewed By: MA **Date** 10/27/20

Injection Log

Directory: M:\YODA\DATA\Y200501M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
38	0501Y002.D	1	SV TUNE 10/01/19	soil	1 May 20 9:23
39	0501Y003.D	1	50ug/ml MEE 05/01/20	soil	1 May 20 9:39
40	0501Y004.D	1	100ug/ml MEE 05/01/20	soil	1 May 20 10:03
42	0501Y006.D	1	200ug/ml MEE 05/01/20	soil	1 May 20 10:51
7	0501Y007.D	1	400ug/ml MEE 05/01/20	soil	1 May 20 11:24
8	0501Y008.D	1	500ug/ml MEE 05/01/20	soil	1 May 20 11:48
9	0501Y009.D	1	600ug/ml MEE 05/01/20	soil	1 May 20 12:13
10	0501Y010.D	1	800ug/ml MEE 05/01/20	soil	1 May 20 12:37
11	0501Y011.D	1	1000ug/ml MEE 05/01/20	soil	1 May 20 13:01
13	0501Y013.D	1	SSug/ml MEE 05/01/20	soil	1 May 20 13:50
30	0501Y130.D	1	SV TUNE 10/02/20		27 Oct 20 10:27
31	0501Y131.D	1	500ug/ml MEE 05/01/20 (2)		27 Oct 20 10:42
32	0501Y132.D	1	201026A BLK 2/500		27 Oct 20 11:06
33	0501Y133.D	1	201026A LCS-1 2/500		27 Oct 20 11:30
34	0501Y134.D	1	BA20486W12 2/500		27 Oct 20 11:53
41	0501Y141.D	1	500ug/ml MEE 05/01/20 (2)		27 Oct 20 14:38

ORGANICS

Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date 10/23/20
Matrix: water Instrument: ZEUS Initials: DG

			1023Z12.D	1023Z13 D	1023Z14 D	1023Z15.D	1023Z16 D	1023Z17 D	1023Z18 D	1023Z19 D	1023Z20 D							
		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	TM	Chlorotrifluoroethene													TM			
3	TM	Dichlorodifluoromethane		0.0283	0.0375	0.0434	0.0336	0.0373	0.0371	0.0375	0.0355		0.04	12	TM			
4	TM	Freon 114		0.0377	0.0544	0.0513	0.0366	0.0425	0.0431	0.0434	0.0387		0.04	15	TM			
5	TM**	Chloromethane		0.2432	0.2103	0.2018	0.1776	0.1815	0.1746	0.1677	0.1589		0.19	15	TM**			
6	TM*	Vinyl chloride		0.1752	0.1756	0.1795	0.1659	0.1685	0.1612	0.1565	0.1447		0.17	7.0	TM*			
7		Butane																
8	TM	2-Chloro-1,1,1-trifluoroethane													TM			
9	TML	Bromomethane		0.0523	0.0496	0.0365	0.0332	0.0321	0.0291	0.0280	0.0251		0.04	28	TM	0.998		
10	TMQ	Chloroethane		0.0696	0.0871	0.0790	0.0606	0.0462	0.0279	0.0261	0.0225		0.05	48	TM	0.993		
11	TM	Dichlorofluoromethane		0.2677	0.2740	0.2602	0.2391	0.2415	0.2236	0.2153			0.25	9.0	TM			
12	TM	Trichlorofluoromethane		0.1550	0.2133	0.1937	0.1798	0.1998	0.1991	0.1897			0.19	9.8	TM			
13	TM	Pentane													TM			
14	TM	Diethyl ether													TM			
15	TM	1,2 Dichlorotrifluoroethane													TM			
16	TM	Acrolein		0.0115	0.0115	0.0109	0.0108	0.0113	0.0113	0.0115	0.0097		0.01	5.8	TM			
17	TM	Acetone	0.0476	0.0411	0.0394	0.0364	0.0362	0.0374	0.0372				0.04	10	TM			
18	TM	Freon-113		0.0895	0.1098	0.1184	0.0816	0.0979	0.1012	0.1053	0.1113		0.10	12	TM			
19	TM*	1,1-DCE		0.1654	0.1731	0.1711	0.1482	0.1541	0.1587	0.1612	0.1672		0.16	5.2	TM*			
20	TM	2-Propanol													TM			
21	TM	Acetonitrile		0.0046	0.0048	0.0045	0.0047	0 0043	0.0040	0.0038			0.00	8.2	TM			
22	TM	t-Butanol	0.0061	0.0062	0.0066	0.0063	0.0058	0.0061	0.0060	0.0058	0.0038		0.01	14	TM			
23	TM	Methyl Acetate		0.1129	0.1021	0.0924	0.0926	0.0907	0.0930	0.0950	0.1008		0.10	7.7	TM			
24	TML	Iodomethane		0.0631	0.0714	0.0785	0.0894	0.1152	0.1310	0.1497	0.1466		0.11	33	TM	0.999		
25	TM	Acrylonitrile		0.0484	0.0443	0.0466	0.0457	0.0444	0.0454	0.0452	0.0462		0.05	2.9	TM			
26	TML	Methylene chloride		0.2395	0.2054	0.1672	0.1371	0.1332	0.1333	0.1294	0.1276		0.16	26	TM	1.00		
27	TM	Carbon disulfide		0.2084	0.2046	0.2100	0.1701	0.1707	0.1698	0.1734	0.1634		0.18	11	TM			
28	TM	Methyl t-butyl ether (MtBE)		0.2826	0.2974	0.2895	0 2835	0.2853	0.2976	0.2964	0.3100		0.29	3.2	TM			
29	TM	Trans-1,2-DCE		0.1652	0.1727	0.1679	0.1509	0.1564	0.1560	0.1570	0.1614		0.16	4.5	TM			
30	TM	Hexane													TM			
31	TM	Diisopropyl Ether		0.3502	0.3647	0.3240	0.3300	0.3360	0.3511	0.3566	0.3797		0.35	5.3	TM			
32	TM**	2,2-Dichloro-1,1,1-trifluoroethane													TM**			
33	TM**	1,1-DCA		0.2186	0.2118	0.2122	0.1998	0.2001	0.1998	0.1993	0.2052		0.21	3.6	TM**			
34	TM	Vinyl Acetate		0.1614	0.1573	0.1403	0.1518	0.1429	0.1611	0.1825	0.1795		0.16	9.6	TM			
35	TM	Ethyl tert Butyl Ether		0.3201	0.3125	0.3076	0.3048	0.3124	0.3253	0.3314	0.3528		0.32	4.9	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No Initial Cal. Date. 10/23/20
Matrix water Instrument: ZEUS Initials: DG

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
36	TM	MEK (2-Butanone)	0.0565	0.0522	0.0551	0.0529	0.0519	0.0550	0.0578	0.0596			0.06	5.0	TM			
37	TM	Cis-1,2-DCE		0.2050	0.1987	0.1949	0.1837	0.1836	0.1834	0.1852	0.1919		0.19	4.3	TM			
38	TM	2,2-Dichloropropane		0.1875	0.1732	0.1696	0.1547	0.1560	0.1578	0.1602	0.1655		0.17	6.7	TM			
39	TM	2-Methylpentane													TM			
40	TM	3-Methylpentane													TM			
41	TM*	Chloroform		0.2277	0.2182	0.2162	0.2061	0 2055	0.2027	0.2020	0.2074		0.21	4.3	TM*			
42	TM	Bromochloromethane		0.1028	0 1070	0.1068	0.0986	0.0965	0.0968	0.0941	0.0959		0.10	5.0	TM			
43	S	Dibromofluoromethane(S)	0 2144	0.2808	0.2561	0.2513	0.2717	0.2663	0.2757	0.2702	0.2750		0.26	7.7	S			
44	TM	1,1,1-TCA		0.1918	0.1836	0.1833	0.1731	0.1742	0.1755	0.1766	0.1810		0.18	3.5	TM			
45	TM	Cyclohexane		0.1943	0.2290	0.2149	0.1574	0.1763	0.1788	0.1873	0.1995		0.19	12	TM			
46	TM	1,1-Dichloropropene		0.1507	0.1619	0.1642	0.1428	0.1522	0.1545	0.1564	0.1611		0.16	4.5	TM			
47	TM	2,2,4-Trimethylpentane		0.3248	0.4039	0.4227	0.2760	0.3546	0.3714	0.4018	0.4347		0.37	14	TM			
48	S	1,2-DCA-D4(S)	0.2008	0.2667	0.2371	0.2352	0.2519	0.2514	0.2632	0.2556	0.2731		0.25	8.8	S			
49	TM	Carbon Tetrachloride		0.1511	0.1584	0.1607	0.1387	0.1457	0.1490	0.1522	0.1578		0.15	4.8	TM			
50	TM	Tert Amyl Methyl Ether		0.2803	0.2885	0.2766	0.2804	0.2865	0.3016	0.3040	0.3214		0.29	5.2	TM			
51	TM	Methylcyclopentane													TM			
52	TM	1,2-DCA		0.1874	0.1521	0.1490	0.1439	0.1390	0.1402	0.1392	0.1474		0.15	11	TM			
53	TM	Benzene		0.5246	0.5258	0.5174	0.4826	0.4864	0.4860	0.4912	0.4947		0.50	3.7	TM			
54	TM	TCE		0.1565	0.1663	0.1647	0.1537	0.1603	0.1568	0.1557	0.1563		0.16	2.9	TM			
55	TM	2-Pentanone		0.0788	0.0824	0.0785	0.0794	0.0858	0.0937	0.0999	0.1155		0.09	15	TM			
56	TM*	1,2-Dichloropropane		0.1221	0.1310	0.1279	0.1214	0.1209	0.1204	0.1209	0.1264		0.12	3.2	TM*			
57	TM	Bromodichloromethane		0.1557	0.1495	0.1478	0.1439	0.1447	0.1470	0.1481	0.1552		0.15	2.9	TM			
58	TM	Methyl Cyclohexane		0.1861	0.2138	0.2256	0.1546	0.1856	0.1935	0.2034	0.2187		0.20	12	TM			
59	TM	Dibromomethane		0.1022	0.1077	0.1076	0 1038	0.1036	0.1023	0.1008	0.1013		0.10	2.6	TM			
60	TM	MIBK (methyl isobutyl ketone	0.1037	0.1024	0.1042	0.1004	0.0999	0.1068	0.1131	0.1182			0.11	6.0	TM			
61	TM	1-Bromo-2-chloroethane		0.0259	0.0246	0.0244	0.0226	0.0238	0.0230	0.0229	0.0237		0.02	4.5	TM			
62	TM	2-Chloroethyl vinyl ether													TM			
63	TM	Cis-1,3-Dichloropropene		0.1896	0 1867	0.1808	0.1821	0.1864	0.1904	0.1921	0.2004		0.19	3.3	TM			
64	TM*	Toluene		0.6092	0.5626	0.5435	0.5149	0.5219	0.5249	0.5326	0.5452		0.54	5.6	TM*			
65	TM	Trans-1,3-Dichloropropene		0.1534	0.1520	0.1499	0.1461	0.1524	0.1591	0.1633	0.1715		0.16	5.3	TM			
66	TM	1,1,2-TCA		0.1156	0.1134	0.1073	0.1044	0.1071	0.1080	0.1088	0.1123		0.11	3.5	TM			
67	TM	2-Hexanone	0.0791	0.0733	0.0756	0.0733	0.0715	0.0743	0.0785	0.0814			0.08	4.5	TM			
68	I	Chlorobenzene-D5 (IS)																
69	S	Toluene-D8(S)	0.9932	1.352	1.185	1.197	1.302	1.290	1.339	1.340	1.340		1.3	9.3	S			
70	TM	1,2-EDB		0.1511	0.1530	0.1479	0.1487	0.1494	0.1534	0 1529	0.1563		0.15	1.9	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/23/20
Matrix: water Instrument: ZEUS Initials: DG

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
71	TM	Tetrachloroethene		0.2237	0 2325	0.2303	0 2109	0 2165	0.2182	0 2168	0.2102		0.22	3.8	TM			
72	TML	1-Chlorohexane		0.3709	0 3008	0.2801	0.2286	0.2238	0.2309	0 2343	0.2443		0.26	19	TM	1.000		
73	TM	1,1,1,2-Tetrachloroethane		0.1589	0 1538	0.1537	0.1563	0.1604	0.1682	0 1679	0.1710		0.16	4.3	TM			
74	TM	m&p-Xylene		0.6268	0 6273	0.6246	0.5957	0.5825	0 5914	0.5871	0.5923		0.60	3.2	TM			
75	TM	o-Xylene		0.6722	0.6511	0.6444	0.6067	0.6079	0.6116	0.6048	0.6316		0.63	4.0	TM			
76	TM	Styrene		0.5482	0.5292	0.5347	0.5331	0.5201	0.5316	0.5228	0.5377		0.53	1.6	TM			
77	S	4-Bromofluorobenzene(S)	0.3948	0.5128	0.4550	0.4585	0.4892	0.4760	0.5033	0.4955	0.5289		0.48	8.3	S			
78	TM	1,3-Dichloropropane		0.2372	0 2370	0.2340	0.2327	0.2345	0.2383	0 2357	0.2426		0.24	1.3	TM			
79	TM	Dibromochloromethane		0.1503	0.1603	0.1518	0.1543	0.1560	0.1623	0.1661	0.1724		0.16	4.7	TM			
80	TM**	Chlorobenzene		0.5055	0.5001	0.5016	0.4843	0.4747	0 4875	0.4793	0.4825		0.49	2.3	TM**			
81	TM*	Ethylbenzene		0.8434	0.7904	0.7843	0.7653	0.7606	0 7696	0.7680	0.7771		0.78	3.4	TM*			
82	TM**	Bromoform		0.1216	0 1091	0.1061	0.1114	0.1136	0.1243	0.1294	0.1368		0.12	9.0	TM**			
83	I	1,4-Dichlorobenzene-D (IS)																
84	TM	Isopropylbenzene		1.436	1.317	1.366	1.329	1.324	1.359	1.392	1.472		1.4	4.1	TM			
85	TM**	1,1,2,2-Tetrachloroethane		0.3038	0.2874	0.2749	0 2863	0.2922	0.3158	0.3389	0.3753		0 31	11	TM**			
86	TM	1,2,3-Trichloropropane		0.1035	0.0949	0.0922	0.0971	0.1009	0.1037	0.1089	0.1168		0.10	7.8	TM			
87	TM	t-1,4-Dichloro-2-Butene		0.0871	0.0764	0.0636	0.0663	0.0701	0.0754	0.0792	0.0893		0.08	12	TM			
88	TM	Bromobenzene		0.6034	0.5901	0 5671	0.5607	0.5585	0.5836	0.6033	0.6715		0.59	6.2	TM			
89	TM	n-Propylbenzene		1 583	1 586	1.617	1 550	1.550	1.594	1.638	1.720		1.6	3.4	TM			
90	TM	4-Ethyltoluene		1.334	1.408	1.420	1.353	1.359	1.387	1.398	1.459		1.4	2.9	TM			
91	TM	2-Chlorotoluene		1.102	1.078	0.9250	0.9100	0.9135	1.042	0.9513	1.015		0.99	7.8	TM			
92	TM	1,3,5-Trimethylbenzene		1.176	1 182	1.174	1.142	1.146	1.170	1.204	1.283		1.2	3.8	TM			
93	TM	4-Chlorotoluene		1.112	1.092	1.103	1.052	1.053	1 074	1.107	1.221		1.1	4.9	TM			
94	TM	Tert-Butylbenzene		1.039	1.051	1.054	1.030	1.014	1.048	1.071	1.112		1.1	2.8	TM			
95	TM	1,2,4-Trimethylbenzene		1.193	1.162	1.168	1.149	1.146	1.188	1.213	1.283		1.2	3.8	TM			
96	TM	Sec-Butylbenzene		1.537	1.560	1 578	1.527	1.511	1.557	1.597	1.660		1.6	3.0	TM			
97	TM	p-Isopropyltoluene		1.287	1.340	1.345	1.318	1.325	1.346	1.387	1.424		1.3	3.1	TM			
98	TM	Benzyl Chloride		0.5507	0.5074	0.4850	0.4946	0 5132	0.5528	0.5833	0.6280		0.54	9.1	TM			
99	TM	1,3-DCB		0 7272	0.7638	0 7625	0 7325	0.7318	0.7471	0 7439	0.7651		0.75	2.1	TM			
100	TM	1,4-DCB		0.7691	0.7532	0.7520	0.7463	0.7375	0.7498	0.7510	0.7597		0.75	1.2	TM			
101	TM	n-Butylbenzene		1.196	1.163	1.138	1.125	1.157	1.212	1.264	1.349		1.2	6.2	TM			
102	TM	1,2-DCB		0.7262	0.7059	0.6970	0.6915	0.6818	0.6970	0.6947	0.6982		0.70	1.8	TM			
103	TML	Hexachloroethane		0.1665	0.1617	0.1706	0 1816	0.1955	0.2130	0.2302	0.2454		0.20	16	TM	0.999		
104	TM	1,2-Dibromo-3-chloropropane		0.0797	0.0806	0.0791	0.0800	0.0832	0.0908	0.0960	0.1052		0.09	11	TM			
105	TM	1,2,4-Trichlorobenzene		0.5076	0.5178	0.5102	0.5011	0.5087	0.5413	0 5336	0.5292		0.52	2.8	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/23/20
Matrix: water Instrument: ZEUS Initials: DG

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
106	TM	Hexachlorobutadiene		0.2339	0.2346	0.2306	0.2215	0.2262	0.2404	0.2444	0.2402		0.23	3.3	TM			
107	TM	Naphthalene		1.192	1 195	1.168	1.173	1 181	1.240	1.240	1.254		1.2	2.8	TM			
108	TM	1,2,3-Trichlorobenzene		0.4365	0.4733	0.4455	0.4570	0.4520	0.4787	0.4746	0.4703		0.46	3.4	TM			
109																		
110																		
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Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z12.D Vial: 7
Acq On : 23 Oct 20 16:16 Operator: LP,DG,CH
Sample : 0.3ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:02 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 11:57:51 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2356083	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1791294	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	1110019	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.44	111	101039	4.13	ppb		0.00
Spiked Amount 25.000			Recovery = 16.516%				
48) 1,2-DCA-D4(S)	4.72	65	94632	3.65	ppb		0.00
Spiked Amount 25.000			Recovery = 14.616%				
69) Toluene-D8(S)	6.38	98	355821	4.02	ppb		0.00
Spiked Amount 25.000			Recovery = 16.064%				
77) 4-Bromofluorobenzene(S)	8.77	95	141456	4.34	ppb		0.00
Spiked Amount 25.000			Recovery = 17.344%				
Target Compounds							Qvalue
17) Acetone	2.54	43	22428	5.08	ppb		98
22) t-Butanol	3.06	59	5727	13.09	ppb	#	91
36) MEK (2-Butanone)	4.06	43	26601	4.49	ppb		98
60) MIBK (methyl isobutyl ket	6.29	43	48879	4.59	ppb		97
67) 2-Hexanone	7.03	43	37294	5.16	ppb		97

(#) = qualifier out of range (m) = manual integration

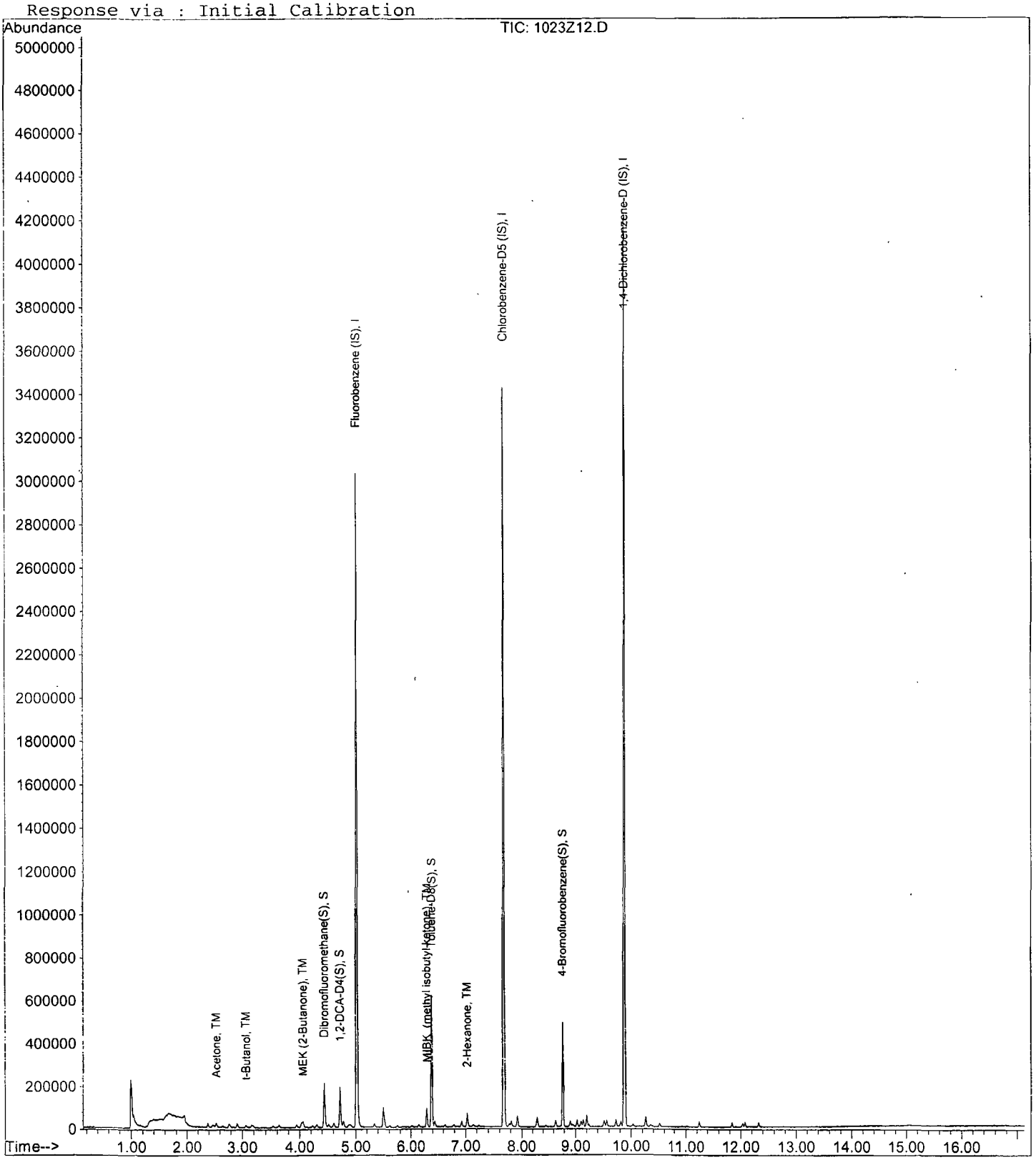
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z12.D
Acq On : 23 Oct 20 16:16
Sample : 0.3ug/L VOC STD 10/23/20
Misc :

Vial: 7
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:02 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z13.D Vial: 8
Acq On : 23 Oct 20 16:39 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2341446	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1753907	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	1082115	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.44	111	657513	26.75	ppb		0.00
Spiked Amount 25.000			Recovery =	107.016%			
48) 1,2-DCA-D4(S)	4.72	65	624435	26.85	ppb		0.00
Spiked Amount 25.000			Recovery =	107.392%			
69) Toluene-D8(S)	6.39	98	2370729	26.83	ppb		0.00
Spiked Amount 25.000			Recovery =	107.308%			
77) 4-Bromofluorobenzene(S)	8.77	95	899469	26.75	ppb		0.00
Spiked Amount 25.000			Recovery =	106.988%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.16	87	1324	0.39	ppb		83
4) Freon 114	1.26	85	1765	0.43	ppb		89
5) Chloromethane	1.34	50	11388	0.64	ppb		92
6) Vinyl chloride	1.39	62	8205	0.53	ppb		91
9) Bromomethane	1.66	94	2449	-0.90	ppb		99
10) Chloroethane	1.75	64	3258	579.36	ppb		91
11) Dichlorofluoromethane	1.95	67	12534	0.54	ppb		99
12) Trichlorofluoromethane	1.99	101	7257	0.41	ppb		96
16) Acrolein	2.39	55	27040	26.10	ppb		96
17) Acetone	2.54	43	38454	10.44	ppb		99
18) Freon-113	2.50	101	4193	0.44	ppb		93
19) 1,1-DCE	2.47	61	7746	0.51	ppb		95
21) Acetonitrile	2.77	40	10753	26.19	ppb		97
22) t-Butanol	3.07	59	14536	26.55	ppb		99
23) Methyl Acetate	2.85	43	5285	0.58	ppb	#	88
24) Iodomethane	2.59	142	2953	1.40	ppb		95
25) Acrylonitrile	3.13	52	2266	0.53	ppb	#	83
26) Methylene chloride	2.91	84	11217	0.34	ppb		98
27) Carbon disulfide	2.65	76	9759	0.57	ppb		98
28) Methyl t-butyl ether (MtBE	3.20	73	13236	0.48	ppb		96
29) Trans-1,2-DCE	3.17	61	7737	0.51	ppb		95
31) Diisopropyl Ether	3.63	45	17104	0.52	ppb		97
33) 1,1-DCA	3.53	63	10235	0.53	ppb	#	98
34) Vinyl Acetate	3.60	43	7559	0.51	ppb		96
35) Ethyl tert Butyl Ether	3.95	59	14989	0.50	ppb		95
36) MEK (2-Butanone)	4.06	43	48919	9.48	ppb		96
37) Cis-1,2-DCE	4.04	61	9599	0.54	ppb		92
38) 2,2-Dichloropropane	4.04	77	8782	0.57	ppb		98
41) Chloroform	4.31	83	10665	0.54	ppb		95
42) Bromochloromethane	4.23	49	4815	0.52	ppb		93
44) 1,1,1-TCA	4.47	97	8980	0.53	ppb		92
45) Cyclohexane	4.52	56	9098	0.51	ppb		88
46) 1,1-Dichloropropene	4.61	75	7056	0.48	ppb		95
47) 2,2,4-Trimethylpentane	4.87	57	15209	0.43	ppb		97
49) Carbon Tetrachloride	4.61	117	7078	0.50	ppb		91
50) Tert Amyl Methyl Ether	4.91	73	13127	0.48	ppb		93
52) 1,2-DCA	4.79	62	8778	0.63	ppb		97
53) Benzene	4.78	78	24567	0.52	ppb		97
54) TCE	5.33	130	7329	0.49	ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z13.D Vial: 8
Acq On : 23 Oct 20 16:39 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
55)	2-Pentanone	5.49	43	184547	22.08	ppb		99
56)	1,2-Dichloropropane	5.52	63	5720	0.49	ppb		99
57)	Bromodichloromethane	5.75	83	7291	0.52	ppb		90
58)	Methyl Cyclohexane	5.51	83	8717	0.47	ppb		95
59)	Dibromomethane	5.62	174	4784	0.49	ppb		97
60)	MIBK (methyl isobutyl ket	6.29	43	95889	9.65	ppb		99
61)	1-Bromo-2-chloroethane	6.01	144	1211	0.54	ppb		96
63)	Cis-1,3-Dichloropropene	6.14	75	8878	0.50	ppb		96
64)	Toluene	6.44	91	28527	0.56	ppb		96
65)	Trans-1,3-Dichloropropene	6.63	75	7184	0.49	ppb		94
66)	1,1,2-TCA	6.78	97	5414	0.53	ppb		88
67)	2-Hexanone	7.03	43	68671	9.66	ppb		98
70)	1,2-EDB	7.24	107	5301	0.50	ppb		100
71)	Tetrachloroethene	6.93	166	7846	0.51	ppb		93
72)	1-Chlorohexane	7.69	91	13012	1.08	ppb		93
73)	1,1,1,2-Tetrachloroethane	7.78	131	5573	0.49	ppb		92
74)	m&p-Xylene	7.92	91	43976	1.04	ppb		98
75)	o-Xylene	8.28	91	23579	0.53	ppb		97
76)	Styrene	8.29	104	19230	0.52	ppb		93
78)	1,3-Dichloropropane	6.94	76	8322	0.50	ppb		96
79)	Dibromochloromethane	7.14	129	5272	0.47	ppb		92
80)	Chlorobenzene	7.70	112	17731	0.52	ppb		96
81)	Ethylbenzene	7.81	91	29585	0.54	ppb		100
82)	Bromoform	8.45	173	4266	0.51	ppb		93
84)	Isopropylbenzene	8.64	105	31084	0.52	ppb		96
85)	1,1,2,2-Tetrachloroethane	8.90	83	6574	0.49	ppb	#	92
86)	1,2,3-Trichloropropane	8.94	110	2240	0.51	ppb		89
87)	t-1,4-Dichloro-2-Butene	8.96	53	1885	0.57	ppb		85
88)	Bromobenzene	8.91	77	13060	0.51	ppb		97
89)	n-Propylbenzene	9.03	91	34257	0.49	ppb		97
90)	4-Ethyltoluene	9.14	105	28878	0.48	ppb		99
91)	2-Chlorotoluene	9.10	91	23854	0.56	ppb		95
92)	1,3,5-Trimethylbenzene	9.20	105	25456	0.50	ppb		100
93)	4-Chlorotoluene	9.20	91	24075	0.50	ppb		92
94)	Tert-Butylbenzene	9.52	119	22488	0.49	ppb		87
95)	1,2,4-Trimethylbenzene	9.56	105	25809	0.50	ppb		99
96)	Sec-Butylbenzene	9.73	105	33269	0.49	ppb		97
97)	p-Isopropyltoluene	9.87	119	27858	0.48	ppb		98
98)	Benzyl Chloride	10.03	91	11919	0.51	ppb	#	97
99)	1,3-DCB	9.81	146	15739	0.49	ppb		96
100)	1,4-DCB	9.90	146	16646	0.51	ppb		94
101)	n-Butylbenzene	10.27	91	25876	0.50	ppb		100
102)	1,2-DCB	10.26	146	15717	0.52	ppb		99
103)	Hexachloroethane	10.52	201	3604	1.62	ppb	#	80
104)	1,2-Dibromo-3-chloropropan	11.02	157	1725	0.46	ppb		86
105)	1,2,4-Trichlorobenzene	11.84	180	10985	0.49	ppb		95
106)	Hexachlorobutadiene	12.03	225	5062	0.50	ppb		93
107)	Naphthalene	12.07	128	25793	0.49	ppb		97
108)	1,2,3-Trichlorobenzene	12.32	180	9446	0.47	ppb		98

(#) = qualifier out of range (m) = manual integration

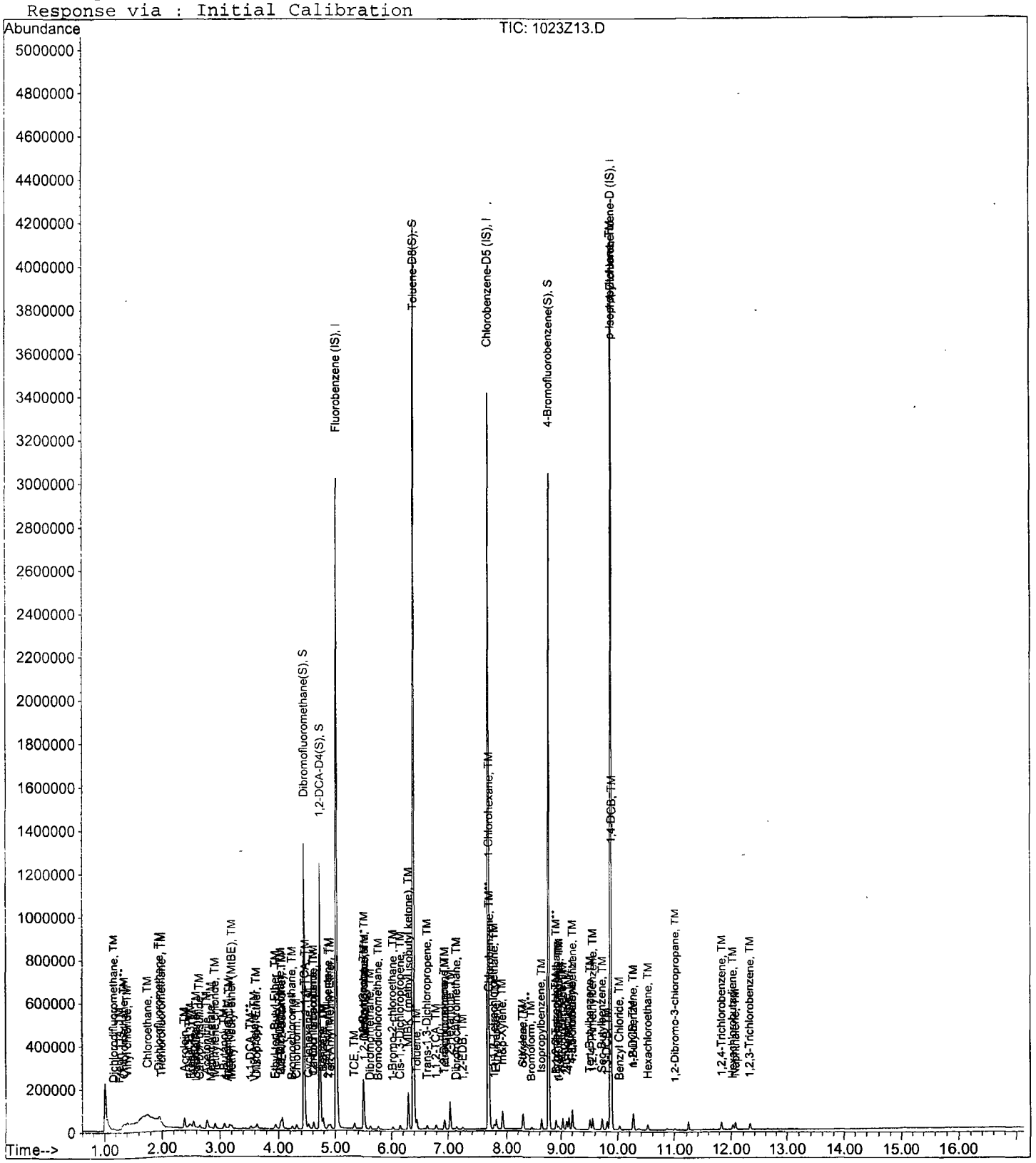
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z13.D
Acq On : 23 Oct 20 16:39
Sample : 0.5ug/L VOC STD 10/23/20
Misc :

Vial: 8
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z14.D Vial: 9
Acq On : 23 Oct 20 17:02 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2316688	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1762926	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	1084727	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.44	111	237342	9.76	ppb		0.00
Spiked Amount 25.000			Recovery =	39.044%			
48) 1,2-DCA-D4(S)	4.72	65	219710	9.55	ppb		0.00
Spiked Amount 25.000			Recovery =	38.192%			
69) Toluene-D8(S)	6.39	98	835305	9.40	ppb		0.00
Spiked Amount 25.000			Recovery =	37.616%			
77) 4-Bromofluorobenzene(S)	8.77	95	320853	9.49	ppb		0.00
Spiked Amount 25.000			Recovery =	37.968%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.16	87	3475	1.03	ppb		95
4) Freon 114	1.26	85	5040	1.25	ppb	#	74
5) Chloromethane	1.34	50	19489	1.11	ppb		93
6) Vinyl chloride	1.39	62	16274	1.06	ppb		98
10) Chloroethane	1.75	64	8070	577.36	ppb	#	85
11) Dichlorofluoromethane	1.95	67	25393	1.11	ppb		99
12) Trichlorofluoromethane	1.99	101	19762	1.12	ppb		100
16) Acrolein	2.38	55	53504	52.20	ppb		99
17) Acetone	2.54	43	72993	20.03	ppb		99
18) Freon-113	2.49	101	10177	1.08	ppb		97
19) 1,1-DCE	2.47	61	16037	1.07	ppb		100
21) Acetonitrile	2.77	40	22219	54.70	ppb		98
22) t-Butanol	3.07	59	30352	56.04	ppb		94
23) Methyl Acetate	2.85	43	9461	1.05	ppb		94
24) Iodomethane	2.60	142	6612	1.67	ppb		93
25) Acrylonitrile	3.13	52	4107	0.97	ppb		86
26) Methylene chloride	2.92	84	19035	1.02	ppb		96
27) Carbon disulfide	2.65	76	18960	1.11	ppb		99
28) Methyl t-butyl ether (MtBE	3.19	73	27557	1.02	ppb		93
29) Trans-1,2-DCE	3.17	61	16002	1.07	ppb		97
31) Diisopropyl Ether	3.63	45	33797	1.04	ppb		94
33) 1,1-DCA	3.53	63	19630	1.03	ppb		94
34) Vinyl Acetate	3.60	43	14574	0.99	ppb		97
35) Ethyl tert Butyl Ether	3.95	59	28959	0.97	ppb		96
36) MEK (2-Butanone)	4.06	43	102145	20.00	ppb		99
37) Cis-1,2-DCE	4.03	61	18414	1.04	ppb		95
38) 2,2-Dichloropropane	4.04	77	16049	1.05	ppb		96
41) Chloroform	4.31	83	20219	1.04	ppb		95
42) Bromochloromethane	4.23	49	9915	1.07	ppb		99
44) 1,1,1-TCA	4.47	97	17014	1.02	ppb		94
45) Cyclohexane	4.52	56	21222	1.19	ppb		90
46) 1,1-Dichloropropene	4.61	75	15006	1.04	ppb		95
47) 2,2,4-Trimethylpentane	4.88	57	37425	1.08	ppb		98
49) Carbon Tetrachloride	4.61	117	14680	1.04	ppb		94
50) Tert Amyl Methyl Ether	4.90	73	26734	0.99	ppb		99
52) 1,2-DCA	4.79	62	14092	1.02	ppb		95
53) Benzene	4.78	78	48728	1.05	ppb		98
54) TCE	5.33	130	15415	1.05	ppb		98
55) 2-Pentanone	5.49	43	382009	46.19	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z14.D
Acq On : 23 Oct 20 17:02
Sample : 1ug/L VOC STD 10/23/20
Misc :

Vial: 9
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
56)	1,2-Dichloropropane	5.52	63	12135	1.06	ppb	#	96
57)	Bromodichloromethane	5.75	83	13858	1.00	ppb		100
58)	Methyl Cyclohexane	5.51	83	19814	1.08	ppb		88
59)	Dibromomethane	5.62	174	9976	1.04	ppb		93
60)	MIBK (methyl isobutyl ket	6.29	43	193155	19.65	ppb		98
61)	1-Bromo-2-chloroethane	6.02	144	2280	1.03	ppb		84
63)	Cis-1,3-Dichloropropene	6.14	75	17303	0.99	ppb		97
64)	Toluene	6.44	91	52134	1.03	ppb		98
65)	Trans-1,3-Dichloropropene	6.63	75	14081	0.97	ppb		93
66)	1,1,2-TCA	6.79	97	10513	1.03	ppb		98
67)	2-Hexanone	7.03	43	140152	19.93	ppb		98
70)	1,2-EDB	7.24	107	10788	1.01	ppb		99
71)	Tetrachloroethene	6.93	166	16396	1.06	ppb		98
72)	1-Chlorohexane	7.69	91	21211	1.55	ppb		97
73)	1,1,1,2-Tetrachloroethane	7.77	131	10842	0.95	ppb		94
74)	m&p-Xylene	7.92	91	88470	2.08	ppb		98
75)	o-Xylene	8.28	91	45911	1.04	ppb		94
76)	Styrene	8.29	104	37319	0.99	ppb		95
78)	1,3-Dichloropropane	6.94	76	16715	1.00	ppb		90
79)	Dibromochloromethane	7.14	129	11303	1.01	ppb		96
80)	Chlorobenzene	7.70	112	35263	1.02	ppb		98
81)	Ethylbenzene	7.81	91	55738	1.01	ppb		99
82)	Bromoform	8.45	173	7690	0.92	ppb		96
84)	Isopropylbenzene	8.64	105	57138	0.96	ppb		94
85)	1,1,2,2-Tetrachloroethane	8.90	83	12471	0.93	ppb		86
86)	1,2,3-Trichloropropane	8.94	110	4116	0.93	ppb		95
87)	t-1,4-Dichloro-2-Butene	8.96	53	3315	1.01	ppb	#	79
88)	Bromobenzene	8.90	77	25602	1.00	ppb		90
89)	n-Propylbenzene	9.03	91	68807	0.99	ppb		96
90)	4-Ethyltoluene	9.14	105	61081	1.01	ppb		96
91)	2-Chlorotoluene	9.10	91	46780	1.09	ppb		99
92)	1,3,5-Trimethylbenzene	9.20	105	51287	1.00	ppb		99
93)	4-Chlorotoluene	9.20	91	47397	0.99	ppb		100
94)	Tert-Butylbenzene	9.51	119	45616	1.00	ppb		94
95)	1,2,4-Trimethylbenzene	9.56	105	50411	0.98	ppb		100
96)	Sec-Butylbenzene	9.73	105	67687	1.00	ppb		97
97)	p-Isopropyltoluene	9.87	119	58142	1.00	ppb		98
98)	Benzyl Chloride	10.04	91	22017	0.94	ppb		97
99)	1,3-DCB	9.81	146	33141	1.02	ppb		96
100)	1,4-DCB	9.90	146	32682	1.00	ppb		96
101)	n-Butylbenzene	10.27	91	50483	0.97	ppb		98
102)	1,2-DCB	10.26	146	30628	1.01	ppb		96
103)	Hexachloroethane	10.52	201	7015	1.94	ppb	#	86
104)	1,2-Dibromo-3-chloropropan	11.02	157	3497	0.93	ppb		96
105)	1,2,4-Trichlorobenzene	11.84	180	22465	1.00	ppb		93
106)	Hexachlorobutadiene	12.03	225	10180	1.00	ppb		91
107)	Naphthalene	12.07	128	51831	0.99	ppb		98
108)	1,2,3-Trichlorobenzene	12.32	180	20535	1.03	ppb		84

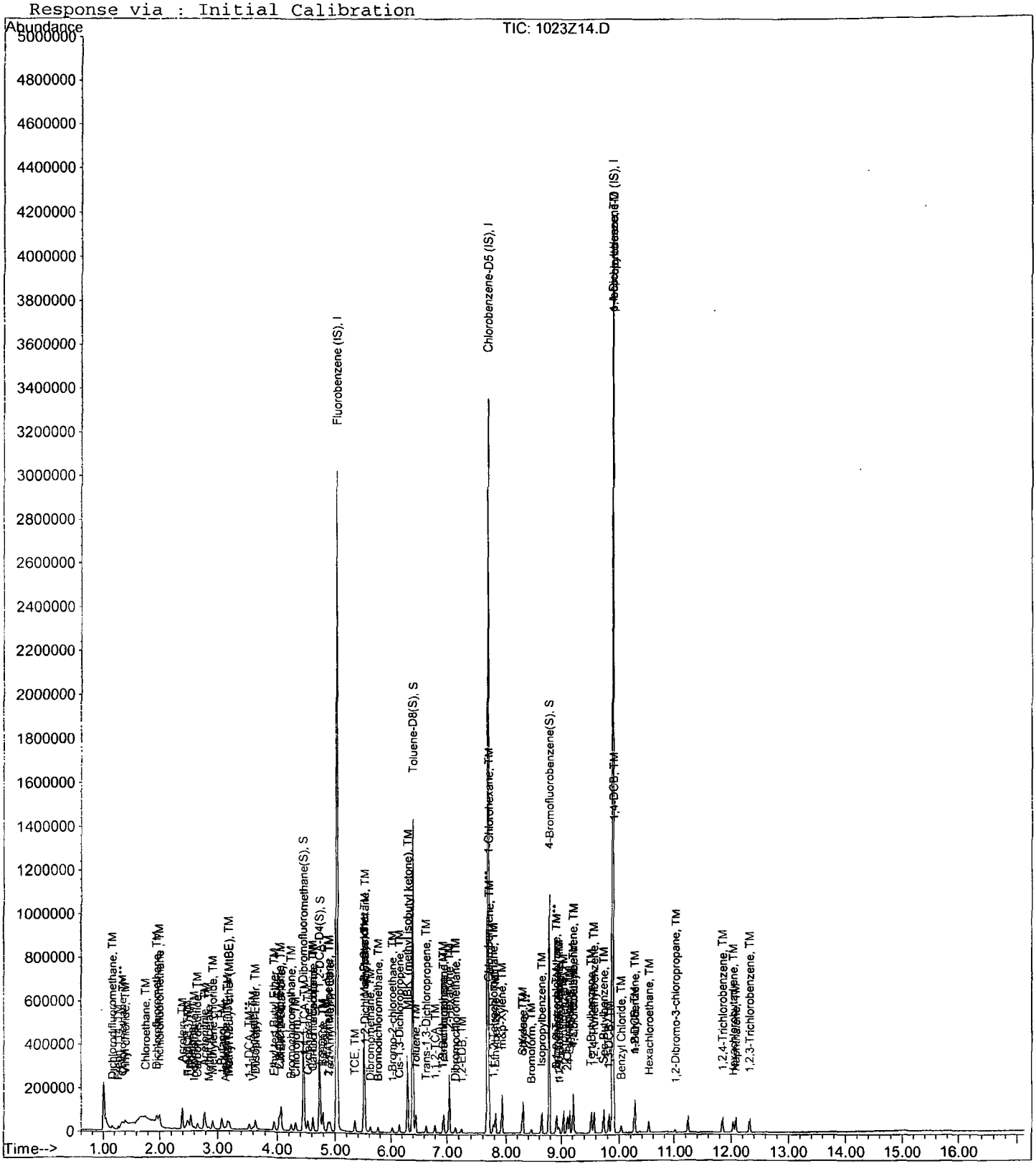
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z14.D Vial: 9
Acq On : 23 Oct 20 17:02 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z15.D Vial: 10
Acq On : 23 Oct 20 17:26 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2327405	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1752454	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	1076444	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.44	111	233948	9.58	ppb		0.00
Spiked Amount 25.000			Recovery =	38.308%			
48) 1,2-DCA-D4(S)	4.72	65	218992	9.47	ppb		0.00
Spiked Amount 25.000			Recovery =	37.892%			
69) Toluene-D8(S)	6.39	98	839127	9.50	ppb		0.00
Spiked Amount 25.000			Recovery =	38.012%			
77) 4-Bromofluorobenzene(S)	8.77	95	321402	9.57	ppb		0.00
Spiked Amount 25.000			Recovery =	38.260%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.16	87	8075	2.39	ppb		75
4) Freon 114	1.27	85	9554	2.36	ppb		93
5) Chloromethane	1.34	50	37571	2.13	ppb		93
6) Vinyl chloride	1.39	62	33421	2.16	ppb		94
9) Bromomethane	1.66	94	6799	0.97	ppb		94
10) Chloroethane	1.75	64	14709	2.17	ppb		92
11) Dichlorofluoromethane	1.95	67	48450	2.12	ppb		97
12) Trichlorofluoromethane	1.99	101	36062	2.04	ppb		99
16) Acrolein	2.39	55	76231	74.03	ppb		100
17) Acetone	2.54	43	101659	27.77	ppb		97
18) Freon-113	2.50	101	22053	2.33	ppb		94
19) 1,1-DCE	2.47	61	31859	2.11	ppb		99
21) Acetonitrile	2.77	40	31267	76.62	ppb		98
22) t-Butanol	3.07	59	43672	80.26	ppb		99
23) Methyl Acetate	2.85	43	17207	1.90	ppb		96
24) Iodomethane	2.59	142	14610	2.24	ppb		92
25) Acrylonitrile	3.13	52	8672	2.04	ppb	#	83
26) Methylene chloride	2.91	84	31140	2.04	ppb		95
27) Carbon disulfide	2.65	76	39096	2.28	ppb		99
28) Methyl t-butyl ether (MtBE	3.19	73	53901	1.98	ppb		96
29) Trans-1,2-DCE	3.17	61	31256	2.09	ppb		97
31) Diisopropyl Ether	3.63	45	61809	1.90	ppb		99
33) 1,1-DCA	3.53	63	39502	2.06	ppb		96
34) Vinyl Acetate	3.60	43	26121	1.76	ppb		98
35) Ethyl tert Butyl Ether	3.94	59	57279	1.92	ppb		98
36) MEK (2-Butanone)	4.06	43	147644	28.77	ppb		97
37) Cis-1,2-DCE	4.03	61	36284	2.04	ppb		97
38) 2,2-Dichloropropane	4.04	77	31571	2.05	ppb		97
41) Chloroform	4.31	83	40259	2.05	ppb		99
42) Bromochloromethane	4.23	49	19879	2.14	ppb		98
44) 1,1,1-TCA	4.47	97	34127	2.04	ppb		97
45) Cyclohexane	4.52	56	40008	2.24	ppb		93
46) 1,1-Dichloropropene	4.61	75	30573	2.11	ppb		99
47) 2,2,4-Trimethylpentane	4.88	57	78704	2.26	ppb		98
49) Carbon Tetrachloride	4.61	117	29930	2.12	ppb		94
50) Tert Amyl Methyl Ether	4.90	73	51506	1.89	ppb		99
52) 1,2-DCA	4.79	62	27741	1.99	ppb		99
53) Benzene	4.78	78	96329	2.06	ppb		99
54) TCE	5.33	130	30663	2.07	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z15.D Vial: 10
Acq On : 23 Oct 20 17:26 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
55)	2-Pentanone	5.49	43	547962	65.95	ppb		99
56)	1,2-Dichloropropane	5.52	63	23805	2.06	ppb		99
57)	Bromodichloromethane	5.75	83	27515	1.98	ppb		99
58)	Methyl Cyclohexane	5.51	83	42010	2.28	ppb		99
59)	Dibromomethane	5.61	174	20037	2.08	ppb		96
60)	MIBK (methyl isobutyl ket	6.29	43	280420	28.39	ppb		99
61)	1-Bromo-2-chloroethane	6.02	144	4544	2.04	ppb	#	80
63)	Cis-1,3-Dichloropropene	6.14	75	33657	1.92	ppb		94
64)	Toluene	6.44	91	101190	2.00	ppb		94
65)	Trans-1,3-Dichloropropene	6.63	75	27908	1.92	ppb		95
66)	1,1,2-TCA	6.79	97	19982	1.96	ppb		96
67)	2-Hexanone	7.03	43	204636	28.97	ppb		99
70)	1,2-EDB	7.24	107	20737	1.95	ppb	#	96
71)	Tetrachloroethene	6.93	166	32283	2.09	ppb		96
72)	1-Chlorohexane	7.69	91	39262	2.62	ppb		97
73)	1,1,1,2-Tetrachloroethane	7.78	131	21555	1.91	ppb		98
74)	m&p-Xylene	7.92	91	175127	4.14	ppb		99
75)	o-Xylene	8.28	91	90347	2.05	ppb		98
76)	Styrene	8.29	104	74959	2.01	ppb		98
78)	1,3-Dichloropropane	6.94	76	32810	1.98	ppb		98
79)	Dibromochloromethane	7.14	129	21284	1.91	ppb		99
80)	Chlorobenzene	7.70	112	70320	2.05	ppb		98
81)	Ethylbenzene	7.81	91	109959	2.01	ppb		93
82)	Bromoform	8.45	173	14870	1.78	ppb		99
84)	Isopropylbenzene	8.64	105	117672	1.99	ppb		98
85)	1,1,2,2-Tetrachloroethane	8.90	83	23673	1.78	ppb		99
86)	1,2,3-Trichloropropane	8.94	110	7942	1.80	ppb		95
87)	t-1,4-Dichloro-2-Butene	8.96	53	5480	1.68	ppb		87
88)	Bromobenzene	8.91	77	48839	1.92	ppb		97
89)	n-Propylbenzene	9.03	91	139221	2.02	ppb		100
90)	4-Ethyltoluene	9.14	105	122321	2.04	ppb		98
91)	2-Chlorotoluene	9.10	91	79660	1.86	ppb		94
92)	1,3,5-Trimethylbenzene	9.20	105	101142	1.98	ppb		98
93)	4-Chlorotoluene	9.20	91	94977	2.00	ppb		98
94)	Tert-Butylbenzene	9.52	119	90793	2.00	ppb		95
95)	1,2,4-Trimethylbenzene	9.56	105	100613	1.97	ppb		97
96)	Sec-Butylbenzene	9.73	105	135896	2.02	ppb		99
97)	p-Isopropyltoluene	9.87	119	115803	2.00	ppb		96
98)	Benzyl Chloride	10.03	91	41766	1.80	ppb		98
99)	1,3-DCB	9.81	146	65663	2.04	ppb		97
100)	1,4-DCB	9.90	146	64758	2.00	ppb		97
101)	n-Butylbenzene	10.27	91	97988	1.90	ppb		97
102)	1,2-DCB	10.26	146	60021	1.99	ppb		98
103)	Hexachloroethane	10.52	201	14693	2.67	ppb	#	84
104)	1,2-Dibromo-3-chloropropan	11.02	157	6810	1.82	ppb	#	83
105)	1,2,4-Trichlorobenzene	11.84	180	43932	1.97	ppb		95
106)	Hexachlorobutadiene	12.03	225	19855	1.97	ppb		99
107)	Naphthalene	12.07	128	100576	1.94	ppb		99
108)	1,2,3-Trichlorobenzene	12.32	180	38366	1.93	ppb		98

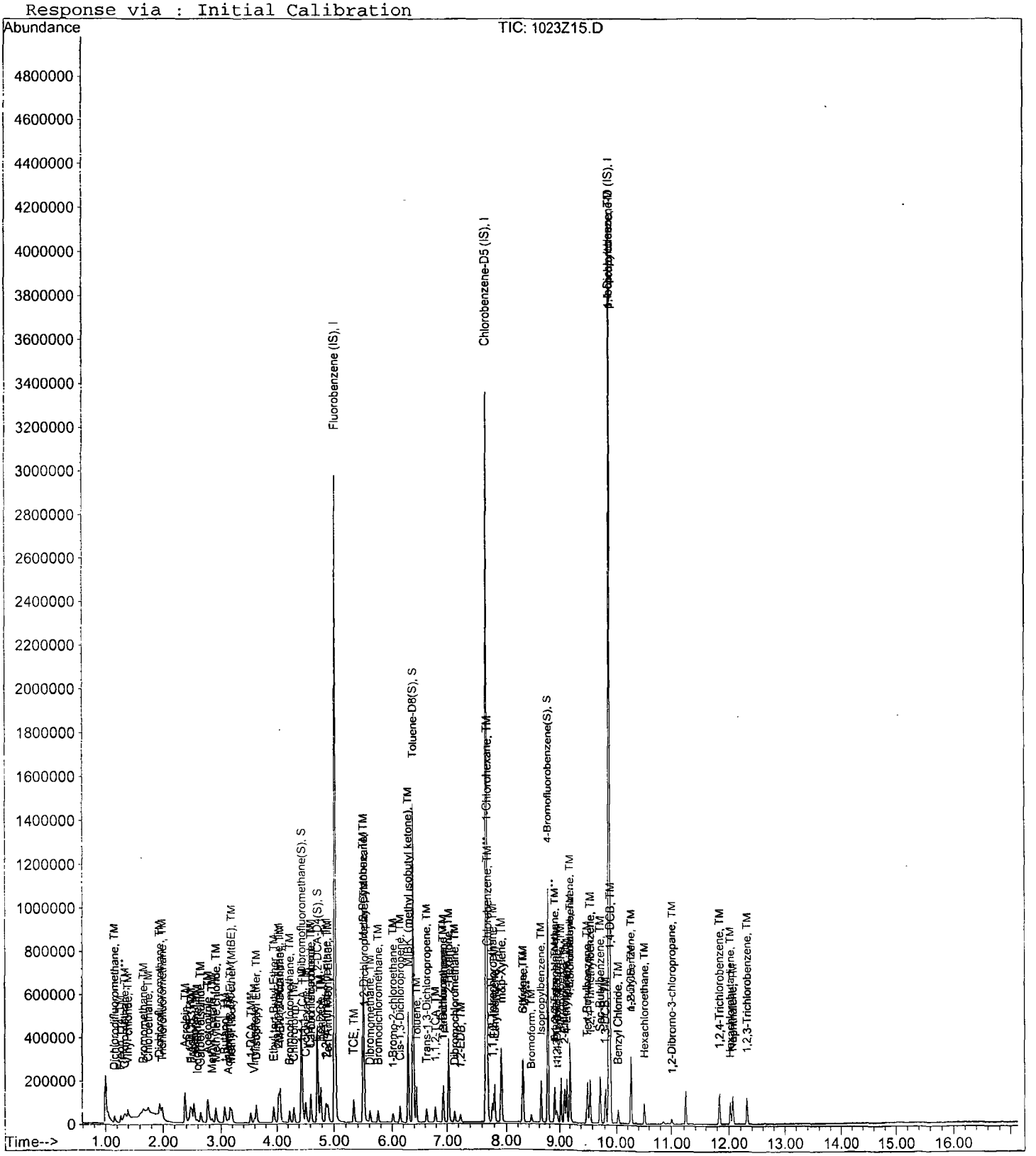
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z15.D Vial: 10
Acq On : 23 Oct 20 17:26 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z16.D Vial: 11
Acq On : 23 Oct 20 17:49 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2262889	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1703750	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	1027534	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	614749	25.88	ppb	0.00
Spiked Amount 25.000			Recovery =	103.528%		
48) 1,2-DCA-D4(S)	4.72	65	570075	25.36	ppb	0.00
Spiked Amount 25.000			Recovery =	101.448%		
69) Toluene-D8(S)	6.39	98	2218123	25.84	ppb	0.00
Spiked Amount 25.000			Recovery =	103.356%		
77) 4-Bromofluorobenzene(S)	8.77	95	833433	25.51	ppb	0.00
Spiked Amount 25.000			Recovery =	102.052%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.16	87	15189	4.63	ppb	99
4) Freon 114	1.26	85	16568	4.21	ppb	90
5) Chloromethane	1.35	50	80392	4.69	ppb	96
6) Vinyl chloride	1.39	62	75104	5.00	ppb	99
9) Bromomethane	1.66	94	15005	4.69	ppb	94
10) Chloroethane	1.75	64	27428	7.87	ppb	97
11) Dichlorofluoromethane	1.95	67	108207	4.86	ppb	97
12) Trichlorofluoromethane	1.99	101	81356	4.73	ppb	99
16) Acrolein	2.38	55	97374	97.26	ppb	98
17) Acetone	2.54	43	130940	36.79	ppb	97
18) Freon-113	2.49	101	36926	4.00	ppb	97
19) 1,1-DCE	2.47	61	67085	4.56	ppb	94
21) Acetonitrile	2.77	40	42401	106.87	ppb	94
22) t-Butanol	3.07	59	52920	100.03	ppb	99
23) Methyl Acetate	2.85	43	41907	4.75	ppb	99
24) Iodomethane	2.60	142	40470	4.19	ppb	98
25) Acrylonitrile	3.13	52	20671	4.99	ppb	96
26) Methylene chloride	2.92	84	62062	4.80	ppb	100
27) Carbon disulfide	2.65	76	76984	4.63	ppb	99
28) Methyl t-butyl ether (MtBE	3.19	73	128314	4.84	ppb	98
29) Trans-1,2-DCE	3.16	61	68293	4.69	ppb	97
31) Diisopropyl Ether	3.63	45	152480	4.83	ppb	100
33) 1,1-DCA	3.53	63	90424	4.85	ppb	98
34) Vinyl Acetate	3.60	43	68682	4.75	ppb	94
35) Ethyl tert Butyl Ether	3.94	59	137961	4.75	ppb	99
36) MEK (2-Butanone)	4.06	43	187909	37.66	ppb	100
37) Cis-1,2-DCE	4.03	61	83134	4.81	ppb	96
38) 2,2-Dichloropropane	4.04	77	70033	4.67	ppb	95
41) Chloroform	4.31	83	93282	4.89	ppb	97
42) Bromochloromethane	4.23	49	44605	4.94	ppb	96
44) 1,1,1-TCA	4.47	97	78323	4.81	ppb	97
45) Cyclohexane	4.52	56	71256	4.10	ppb	96
46) 1,1-Dichloropropene	4.61	75	64640	4.59	ppb	99
47) 2,2,4-Trimethylpentane	4.87	57	124907	3.69	ppb	98
49) Carbon Tetrachloride	4.61	117	62764	4.57	ppb	98
50) Tert Amyl Methyl Ether	4.90	73	126913	4.79	ppb	98
52) 1,2-DCA	4.79	62	65124	4.80	ppb	98
53) Benzene	4.78	78	218427	4.82	ppb	99
54) TCE	5.33	130	69545	4.84	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z16.D Vial: 11
Acq On : 23 Oct 20 17:49 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55)	2-Pentanone	5.49	43	718925	88.99	ppb	98
56)	1,2-Dichloropropane	5.52	63	54942	4.90	ppb	98
57)	Bromodichloromethane	5.75	83	65141	4.83	ppb	96
58)	Methyl Cyclohexane	5.51	83	69975	3.91	ppb	98
59)	Dibromomethane	5.61	174	46993	5.01	ppb	95
60)	MIBK (methyl isobutyl ket	6.29	43	361814	37.68	ppb	100
61)	1-Bromo-2-chloroethane	6.02	144	10245	4.74	ppb	94
63)	Cis-1,3-Dichloropropene	6.14	75	82405	4.83	ppb	96
64)	Toluene	6.44	91	233054	4.73	ppb	98
65)	Trans-1,3-Dichloropropene	6.63	75	66133	4.68	ppb	98
66)	1,1,2-TCA	6.79	97	47251	4.76	ppb	97
67)	2-Hexanone	7.03	43	258948	37.70	ppb	99
70)	1,2-EDB	7.24	107	50671	4.90	ppb	94
71)	Tetrachloroethene	6.93	166	71875	4.80	ppb	97
72)	1-Chlorohexane	7.69	91	77909	5.01	ppb	99
73)	1,1,1,2-Tetrachloroethane	7.77	131	53255	4.85	ppb	98
74)	m&p-Xylene	7.92	91	406001	9.87	ppb	98
75)	o-Xylene	8.28	91	206741	4.82	ppb	98
76)	Styrene	8.29	104	181638	5.01	ppb	98
78)	1,3-Dichloropropane	6.94	76	79277	4.92	ppb	98
79)	Dibromochloromethane	7.14	129	52590	4.85	ppb	97
80)	Chlorobenzene	7.70	112	165031	4.95	ppb	98
81)	Ethylbenzene	7.81	91	260768	4.89	ppb	99
82)	Bromoform	8.45	173	37972	4.68	ppb	99
84)	Isopropylbenzene	8.64	105	273128	4.83	ppb	100
85)	1,1,2,2-Tetrachloroethane	8.90	83	58841	4.63	ppb	97
86)	1,2,3-Trichloropropane	8.94	110	19960	4.75	ppb	96
87)	t-1,4-Dichloro-2-Butene	8.96	53	13615	4.36	ppb	90
88)	Bromobenzene	8.90	77	115228	4.73	ppb	91
89)	n-Propylbenzene	9.03	91	318576	4.83	ppb	99
90)	4-Ethyltoluene	9.14	105	277993	4.87	ppb	98
91)	2-Chlorotoluene	9.10	91	187005	4.59	ppb	99
92)	1,3,5-Trimethylbenzene	9.20	105	234657	4.82	ppb	99
93)	4-Chlorotoluene	9.20	91	216149	4.77	ppb	99
94)	Tert-Butylbenzene	9.51	119	211732	4.89	ppb	95
95)	1,2,4-Trimethylbenzene	9.56	105	236223	4.84	ppb	100
96)	Sec-Butylbenzene	9.73	105	313720	4.87	ppb	99
97)	p-Isopropyltoluene	9.87	119	270845	4.89	ppb	98
98)	Benzyl Chloride	10.03	91	101646	4.58	ppb	99
99)	1,3-DCB	9.82	146	150529	4.90	ppb	99
100)	1,4-DCB	9.90	146	153374	4.96	ppb	100
101)	n-Butylbenzene	10.27	91	231198	4.69	ppb	99
102)	1,2-DCB	10.26	146	142107	4.95	ppb	99
103)	Hexachloroethane	10.52	201	37325	4.97	ppb	94
104)	1,2-Dibromo-3-chloropropan	11.01	157	16448	4.61	ppb	99
105)	1,2,4-Trichlorobenzene	11.84	180	102978	4.83	ppb	99
106)	Hexachlorobutadiene	12.03	225	45529	4.73	ppb	97
107)	Naphthalene	12.07	128	241079	4.87	ppb	98
108)	1,2,3-Trichlorobenzene	12.32	180	93919	4.96	ppb	93

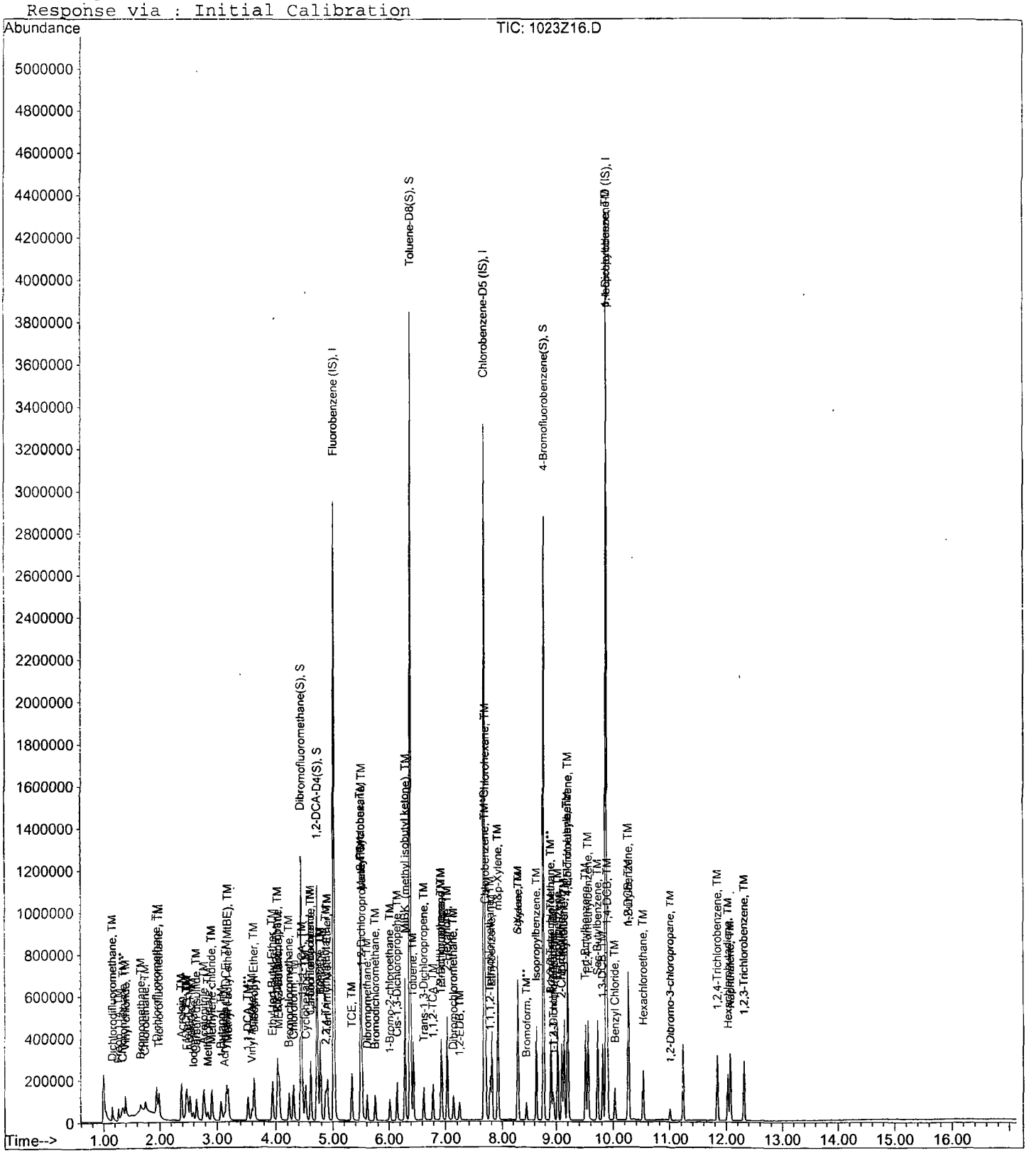
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z16.D Vial: 11
Acq On : 23 Oct 20 17:49 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z17.D Vial: 12
Acq On : 23 Oct 20 18:12 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2263169	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1720200	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	1020669	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	602681	25.37	ppb	0.00
Spiked Amount 25.000			Recovery =	101.484%		
48) 1,2-DCA-D4(S)	4.72	65	568939	25.31	ppb	0.00
Spiked Amount 25.000			Recovery =	101.232%		
69) Toluene-D8(S)	6.39	98	2218898	25.60	ppb	0.00
Spiked Amount 25.000			Recovery =	102.404%		
77) 4-Bromofluorobenzene(S)	8.77	95	818873	24.83	ppb	0.00
Spiked Amount 25.000			Recovery =	99.308%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.16	87	33722	10.28	ppb	100
4) Freon 114	1.26	85	38507	9.78	ppb	100
5) Chloromethane	1.34	50	164347	9.58	ppb	100
6) Vinyl chloride	1.39	62	152565	10.16	ppb	100
9) Bromomethane	1.66	94	29074	10.90	ppb	100
10) Chloroethane	1.75	64	41814	14.24	ppb	100
11) Dichlorofluoromethane	1.94	67	218662	9.82	ppb	100
12) Trichlorofluoromethane	1.98	101	180837	10.51	ppb	100
16) Acrolein	2.38	55	127358	127.19	ppb	100
17) Acetone	2.54	43	169329	47.58	ppb	100
18) Freon-113	2.49	101	88607	9.61	ppb	100
19) 1,1-DCE	2.46	61	139478	9.49	ppb	100
21) Acetonitrile	2.77	40	48763	122.89	ppb	100
22) t-Butanol	3.07	59	68848	130.12	ppb	100
23) Methyl Acetate	2.85	43	82078	9.31	ppb	100
24) Iodomethane	2.60	142	104307	8.94	ppb	100
25) Acrylonitrile	3.13	52	40180	9.70	ppb	100
26) Methylene chloride	2.91	84	120547	9.89	ppb	100
27) Carbon disulfide	2.65	76	154496	9.29	ppb	100
28) Methyl t-butyl ether (MtBE	3.19	73	258257	9.74	ppb	100
29) Trans-1,2-DCE	3.16	61	141603	9.72	ppb	100
31) Diisopropyl Ether	3.63	45	307452	9.73	ppb	98
33) 1,1-DCA	3.53	63	181141	9.72	ppb	100
34) Vinyl Acetate	3.60	43	129362	8.95	ppb	100
35) Ethyl tert Butyl Ether	3.94	59	282777	9.74	ppb	100
36) MEK (2-Butanone)	4.06	43	248754	49.85	ppb	100
37) Cis-1,2-DCE	4.03	61	166191	9.62	ppb	100
38) 2,2-Dichloropropane	4.03	77	141232	9.42	ppb	100
41) Chloroform	4.31	83	186068	9.75	ppb	100
42) Bromochloromethane	4.23	49	87400	9.67	ppb	100
44) 1,1,1-TCA	4.47	97	157690	9.68	ppb	100
45) Cyclohexane	4.52	56	159563	9.17	ppb	100
46) 1,1-Dichloropropene	4.61	75	137758	9.79	ppb	100
47) 2,2,4-Trimethylpentane	4.87	57	321050	9.49	ppb	100
49) Carbon Tetrachloride	4.61	117	131869	9.60	ppb	100
50) Tert Amyl Methyl Ether	4.90	73	259385	9.80	ppb	100
52) 1,2-DCA	4.79	62	125803	9.28	ppb	100
53) Benzene	4.78	78	440333	9.71	ppb	100
54) TCE	5.33	130	145147	10.10	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z17.D Vial: 12
Acq On : 23 Oct 20 18:12 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55)	2-Pentanone	5.49	43	971005	120.18	ppb	100
56)	1,2-Dichloropropane	5.52	63	109440	9.76	ppb	100
57)	Bromodichloromethane	5.75	83	131037	9.71	ppb	100
58)	Methyl Cyclohexane	5.51	83	168041	9.39	ppb	100
59)	Dibromomethane	5.61	174	93810	10.00	ppb	100
60)	MIBK (methyl isobutyl ket	6.29	43	483459	50.34	ppb	100
61)	1-Bromo-2-chloroethane	6.02	144	21583	9.99	ppb	100
63)	Cis-1,3-Dichloropropene	6.14	75	168770	9.89	ppb	100
64)	Toluene	6.44	91	472483	9.59	ppb	100
65)	Trans-1,3-Dichloropropene	6.63	75	137976	9.77	ppb	100
66)	1,1,2-TCA	6.79	97	96936	9.77	ppb	100
67)	2-Hexanone	7.03	43	336432	48.98	ppb	100
70)	1,2-EDB	7.24	107	102821	9.86	ppb	100
71)	Tetrachloroethene	6.93	166	148960	9.85	ppb	100
72)	1-Chlorohexane	7.69	91	154013	9.51	ppb	100
73)	1,1,1,2-Tetrachloroethane	7.78	131	110391	9.95	ppb	100
74)	m&p-Xylene	7.92	91	801581	19.30	ppb	100
75)	o-Xylene	8.28	91	418273	9.67	ppb	100
76)	Styrene	8.29	104	357846	9.77	ppb	100
78)	1,3-Dichloropropane	6.94	76	161321	9.91	ppb	100
79)	Dibromochloromethane	7.14	129	107335	9.80	ppb	100
80)	Chlorobenzene	7.70	112	326646	9.70	ppb	100
81)	Ethylbenzene	7.81	91	523325	9.72	ppb	100
82)	Bromoform	8.45	173	78168	9.54	ppb	100
84)	Isopropylbenzene	8.64	105	540501	9.63	ppb	100
85)	1,1,2,2-Tetrachloroethane	8.90	83	119316	9.45	ppb	100
86)	1,2,3-Trichloropropane	8.94	110	41181	9.87	ppb	100
87)	t-1,4-Dichloro-2-Butene	8.96	53	28635	9.24	ppb	100
88)	Bromobenzene	8.91	77	228032	9.43	ppb	100
89)	n-Propylbenzene	9.03	91	632841	9.66	ppb	100
90)	4-Ethyltoluene	9.14	105	554725	9.78	ppb	100
91)	2-Chlorotoluene	9.10	91	372958	9.21	ppb	100
92)	1,3,5-Trimethylbenzene	9.20	105	467984	9.67	ppb	100
93)	4-Chlorotoluene	9.20	91	429866	9.56	ppb	100
94)	Tert-Butylbenzene	9.51	119	414008	9.63	ppb	100
95)	1,2,4-Trimethylbenzene	9.56	105	467984	9.65	ppb	100
96)	Sec-Butylbenzene	9.73	105	617090	9.65	ppb	100
97)	p-Isopropyltoluene	9.87	119	540838	9.84	ppb	100
98)	Benzyl Chloride	10.04	91	209541	9.52	ppb	100
99)	1,3-DCB	9.81	146	298784	9.80	ppb	100
100)	1,4-DCB	9.90	146	301103	9.80	ppb	100
101)	n-Butylbenzene	10.27	91	472240	9.64	ppb	100
102)	1,2-DCB	10.26	146	278362	9.75	ppb	100
103)	Hexachloroethane	10.52	201	79800	9.21	ppb	100
104)	1,2-Dibromo-3-chloropropan	11.02	157	33965	9.58	ppb	100
105)	1,2,4-Trichlorobenzene	11.84	180	207672	9.81	ppb	100
106)	Hexachlorobutadiene	12.03	225	92346	9.67	ppb	100
107)	Naphthalene	12.08	128	482083	9.80	ppb	100
108)	1,2,3-Trichlorobenzene	12.32	180	184537	9.81	ppb	100

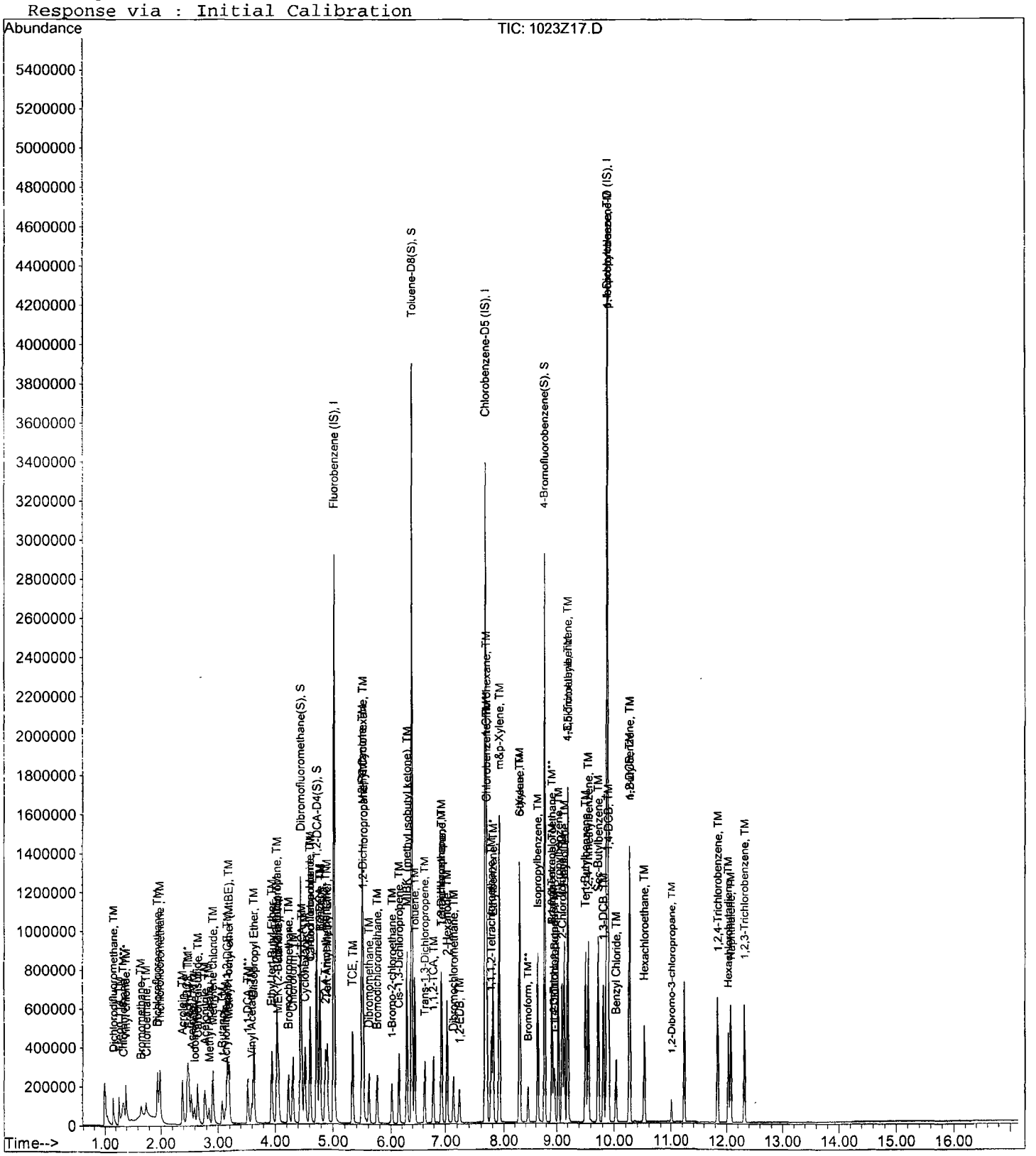
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z17.D Vial: 12
Acq On : 23 Oct 20 18:12 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z18.D
Acq On : 23 Oct 20 18:35
Sample : 20ug/L VOC STD 10/23/20
Misc :

Vial: 13
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2267294	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.68	117	1710493	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	1008889	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	1250381	52.54	ppb	0.00
Spiked Amount 25.000			Recovery = 210.168%			
48) 1,2-DCA-D4(S)	4.72	65	1193346	52.99	ppb	0.00
Spiked Amount 25.000			Recovery = 211.948%			
69) Toluene-D8(S)	6.39	98	4579966	53.14	ppb	0.00
Spiked Amount 25.000			Recovery = 212.564%			
77) 4-Bromofluorobenzene(S)	8.77	95	1721761	52.50	ppb	0.00
Spiked Amount 25.000			Recovery = 209.992%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.16	87	67231	20.45	ppb	98
4) Freon 114	1.26	85	78120	19.81	ppb	97
5) Chloromethane	1.35	50	316719	18.43	ppb	100
6) Vinyl chloride	1.39	62	292416	19.43	ppb	99
9) Bromomethane	1.66	94	52854	21.37	ppb	100
10) Chloroethane	1.74	64	50593	18.16	ppb	98
11) Dichlorofluoromethane	1.94	67	405591	18.19	ppb	98
12) Trichlorofluoromethane	1.98	101	361080	20.95	ppb	99
16) Acrolein	2.39	55	153767	153.29	ppb	99
17) Acetone	2.54	43	202422	56.77	ppb	99
18) Freon-113	2.49	101	183479	19.86	ppb	97
19) 1,1-DCE	2.46	61	287902	19.55	ppb	98
21) Acetonitrile	2.78	40	54266	136.51	ppb	95
22) t-Butanol	3.08	59	82008	154.71	ppb	98
23) Methyl Acetate	2.85	43	168692	19.09	ppb	99
24) Iodomethane	2.59	142	237608	18.81	ppb	97
25) Acrylonitrile	3.14	52	82363	19.84	ppb	94
26) Methylene chloride	2.91	84	241695	20.39	ppb	96
27) Carbon disulfide	2.65	76	307968	18.48	ppb	100
28) Methyl t-butyl ether (MtBE	3.19	73	539798	20.33	ppb	98
29) Trans-1,2-DCE	3.16	61	282908	19.38	ppb	99
31) Diisopropyl Ether	3.63	45	640263	20.23	ppb	99
33) 1,1-DCA	3.53	63	362345	19.41	ppb	98
34) Vinyl Acetate	3.60	43	292195	20.19	ppb	98
35) Ethyl tert Butyl Ether	3.95	59	590038	20.28	ppb	98
36) MEK (2-Butanone)	4.06	43	314570	62.93	ppb	100
37) Cis-1,2-DCE	4.03	61	332687	19.23	ppb	98
38) 2,2-Dichloropropane	4.04	77	286267	19.06	ppb	98
41) Chloroform	4.31	83	367651	19.24	ppb	97
42) Bromochloromethane	4.23	49	175650	19.40	ppb	99
44) 1,1,1-TCA	4.47	97	318396	19.52	ppb	97
45) Cyclohexane	4.52	56	324383	18.61	ppb	99
46) 1,1-Dichloropropene	4.61	75	280265	19.88	ppb	99
47) 2,2,4-Trimethylpentane	4.87	57	673677	19.88	ppb	99
49) Carbon Tetrachloride	4.61	117	270282	19.65	ppb	100
50) Tert Amyl Methyl Ether	4.90	73	547072	20.63	ppb	98
52) 1,2-DCA	4.79	62	254231	18.72	ppb	100
53) Benzene	4.78	78	881594	19.40	ppb	97
54) TCE	5.33	130	284432	19.75	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z18.D Vial: 13
Acq On : 23 Oct 20 18:35 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55)	2-Pentanone	5.49	43	1275073	157.52	ppb	99
56)	1,2-Dichloropropane	5.52	63	218307	19.43	ppb	100
57)	Bromodichloromethane	5.75	83	266641	19.73	ppb	99
58)	Methyl Cyclohexane	5.51	83	350977	19.58	ppb	99
59)	Dibromomethane	5.61	174	185501	19.73	ppb	94
60)	MIBK (methyl isobutyl ket	6.29	43	615394	63.96	ppb	98
61)	1-Bromo-2-chloroethane	6.02	144	41667	19.24	ppb	92
63)	Cis-1,3-Dichloropropene	6.14	75	345426	20.20	ppb	98
64)	Toluene	6.44	91	952101	19.29	ppb	99
65)	Trans-1,3-Dichloropropene	6.63	75	288590	20.40	ppb	97
66)	1,1,2-TCA	6.79	97	195823	19.70	ppb	98
67)	2-Hexanone	7.03	43	426932	62.04	ppb	99
70)	1,2-EDB	7.24	107	209845	20.23	ppb	99
71)	Tetrachloroethene	6.93	166	298577	19.85	ppb	98
72)	1-Chlorohexane	7.69	91	316025	19.28	ppb	95
73)	1,1,1,2-Tetrachloroethane	7.78	131	230146	20.86	ppb	98
74)	m&p-Xylene	7.92	91	1618496	39.20	ppb	99
75)	o-Xylene	8.28	91	836861	19.45	ppb	99
76)	Styrene	8.29	104	727434	19.98	ppb	98
78)	1,3-Dichloropropane	6.94	76	326127	20.15	ppb	99
79)	Dibromochloromethane	7.14	129	222028	20.39	ppb	99
80)	Chlorobenzene	7.70	112	667054	19.92	ppb	98
81)	Ethylbenzene	7.81	91	1053055	19.67	ppb	100
82)	Bromoform	8.45	173	170028	20.88	ppb	100
84)	Isopropylbenzene	8.64	105	1096733	19.77	ppb	99
85)	1,1,2,2-Tetrachloroethane	8.91	83	254912	20.42	ppb	99
86)	1,2,3-Trichloropropane	8.94	110	83664	20.28	ppb	98
87)	t-1,4-Dichloro-2-Butene	8.97	53	60822	19.85	ppb	95
88)	Bromobenzene	8.91	77	470995	19.71	ppb	97
89)	n-Propylbenzene	9.03	91	1286454	19.87	ppb	100
90)	4-Ethyltoluene	9.14	105	1119286	19.96	ppb	100
91)	2-Chlorotoluene	9.10	91	840799	21.00	ppb	98
92)	1,3,5-Trimethylbenzene	9.21	105	944065	19.74	ppb	99
93)	4-Chlorotoluene	9.21	91	866489	19.49	ppb	98
94)	Tert-Butylbenzene	9.52	119	846237	19.92	ppb	98
95)	1,2,4-Trimethylbenzene	9.56	105	959064	20.01	ppb	99
96)	Sec-Butylbenzene	9.73	105	1256648	19.89	ppb	100
97)	p-Isopropyltoluene	9.88	119	1086230	19.99	ppb	99
98)	Benzyl Chloride	10.04	91	446182	20.50	ppb	99
99)	1,3-DCB	9.82	146	602991	20.01	ppb	98
100)	1,4-DCB	9.91	146	605190	19.93	ppb	97
101)	n-Butylbenzene	10.28	91	977876	20.19	ppb	99
102)	1,2-DCB	10.27	146	562541	19.94	ppb	100
103)	Hexachloroethane	10.52	201	171949	18.57	ppb	99
104)	1,2-Dibromo-3-chloropropan	11.02	157	73271	20.91	ppb	97
105)	1,2,4-Trichlorobenzene	11.85	180	436890	20.87	ppb	98
106)	Hexachlorobutadiene	12.04	225	194035	20.55	ppb	96
107)	Naphthalene	12.09	128	1000717	20.57	ppb	99
108)	1,2,3-Trichlorobenzene	12.33	180	386359	20.77	ppb	97

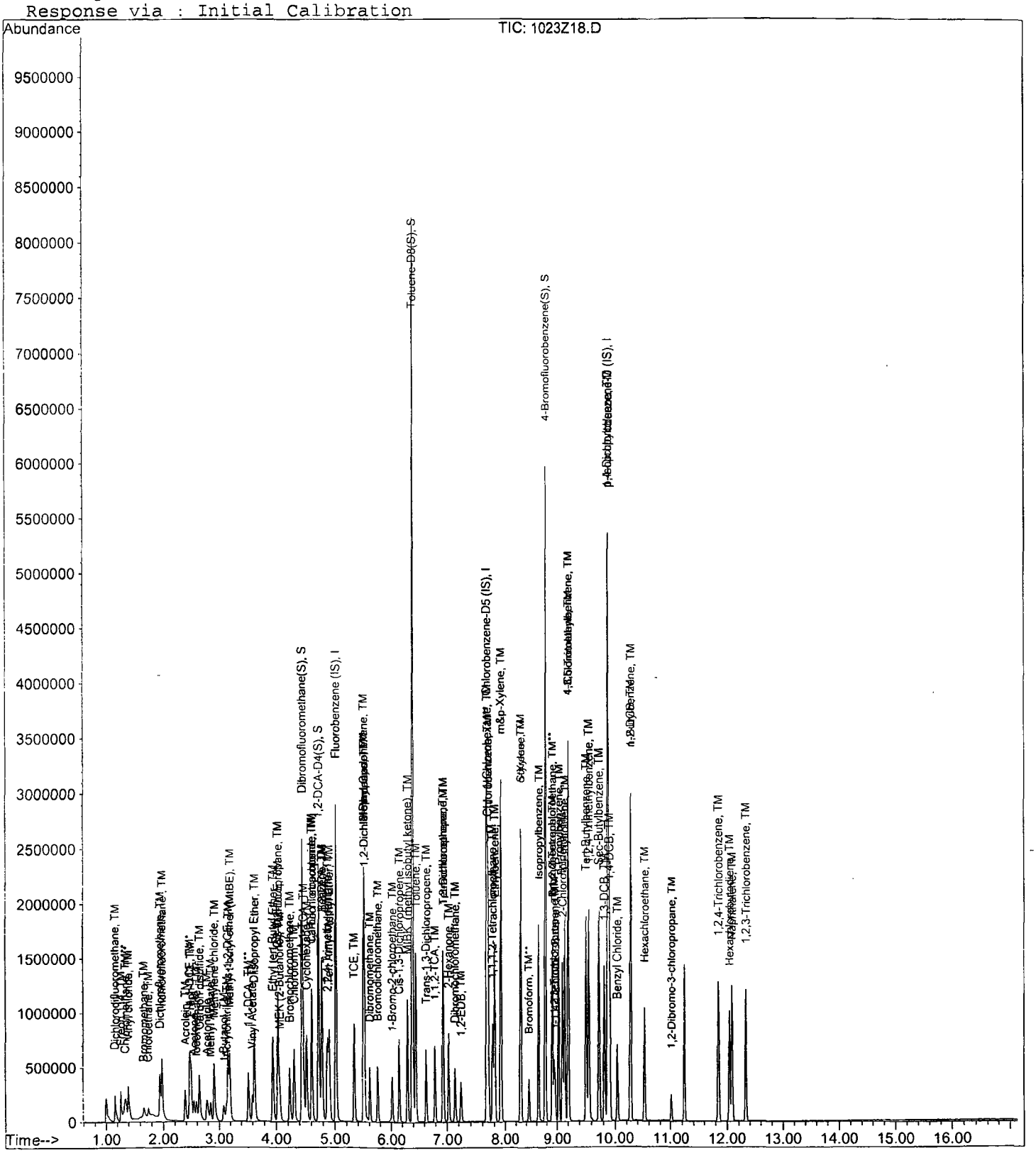
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z18.D Vial: 13
Acq On : 23 Oct 20 18:35 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z19.D Vial: 14
Acq On : 23 Oct 20 18:58 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2320328	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1767155	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	1007559	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	1254122	51.49	ppb	0.00
Spiked Amount 25.000			Recovery = 205.976%			
48) 1,2-DCA-D4(S)	4.72	65	1186014	51.46	ppb	0.00
Spiked Amount 25.000			Recovery = 205.832%			
69) Toluene-D8(S)	6.39	98	4735021	53.18	ppb	0.00
Spiked Amount 25.000			Recovery = 212.716%			
77) 4-Bromofluorobenzene(S)	8.77	95	1751274	51.69	ppb	0.00
Spiked Amount 25.000			Recovery = 206.744%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.16	87	139098	41.35	ppb	97
4) Freon 114	1.26	85	161224	39.96	ppb	99
5) Chloromethane	1.35	50	622457	35.40	ppb	99
6) Vinyl chloride	1.39	62	580976	37.73	ppb	99
9) Bromomethane	1.66	94	104064	42.91	ppb	97
10) Chloroethane	1.74	64	97070	39.05	ppb	97
11) Dichlorofluoromethane	1.93	67	799166	35.01	ppb	97
12) Trichlorofluoromethane	1.97	101	704201	39.93	ppb	98
16) Acrolein	2.39	55	186824	181.98	ppb	97
17) Acetone	2.54	43	278174	76.23	ppb	98
18) Freon-113	2.49	101	390780	41.33	ppb	98
19) 1,1-DCE	2.46	61	598417	39.71	ppb	99
21) Acetonitrile	2.78	40	62265	153.05	ppb	94
22) t-Butanol	3.09	59	93632	172.60	ppb	100
23) Methyl Acetate	2.85	43	352661	39.00	ppb	98
24) Iodomethane	2.59	142	555877	41.47	ppb	99
25) Acrylonitrile	3.14	52	167794	39.50	ppb	97
26) Methylene chloride	2.91	84	480232	40.14	ppb	99
27) Carbon disulfide	2.64	76	643904	37.75	ppb	99
28) Methyl t-butyl ether (MtBE	3.19	73	1100223	40.49	ppb	98
29) Trans-1,2-DCE	3.16	61	582981	39.03	ppb	96
31) Diisopropyl Ether	3.63	45	1334860	41.20	ppb	99
33) 1,1-DCA	3.53	63	739927	38.73	ppb	99
34) Vinyl Acetate	3.60	43	677698	45.75	ppb	98
35) Ethyl tert Butyl Ether	3.95	59	1230172	41.31	ppb	98
36) MEK (2-Butanone)	4.06	43	442715	86.54	ppb	99
37) Cis-1,2-DCE	4.03	61	687373	38.82	ppb	97
38) 2,2-Dichloropropane	4.03	77	594766	38.70	ppb	96
41) Chloroform	4.31	83	749760	38.33	ppb	99
42) Bromochloromethane	4.23	49	349433	37.72	ppb	99
44) 1,1,1-TCA	4.47	97	655468	39.26	ppb	99
45) Cyclohexane	4.52	56	695495	38.99	ppb	100
46) 1,1-Dichloropropene	4.61	75	580656	40.24	ppb	100
47) 2,2,4-Trimethylpentane	4.87	57	1491759	43.01	ppb	99
49) Carbon Tetrachloride	4.61	117	564914	40.12	ppb	98
50) Tert Amyl Methyl Ether	4.90	73	1128750	41.59	ppb	99
52) 1,2-DCA	4.79	62	516651	37.17	ppb	100
53) Benzene	4.78	78	1823702	39.21	ppb	99
54) TCE	5.33	130	578097	39.22	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z19.D Vial: 14
Acq On : 23 Oct 20 18:58 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55)	2-Pentanone	5.49	43	1621883	195.79	ppb	99
56)	1,2-Dichloropropane	5.52	63	448939	39.05	ppb	99
57)	Bromodichloromethane	5.75	83	549991	39.77	ppb	100
58)	Methyl Cyclohexane	5.51	83	754998	41.15	ppb	98
59)	Dibromomethane	5.61	174	374177	38.89	ppb	95
60)	MIBK (methyl isobutyl ket	6.29	43	877295	89.10	ppb	99
61)	1-Bromo-2-chloroethane	6.02	144	85193	38.45	ppb	94
63)	Cis-1,3-Dichloropropene	6.14	75	712995	40.74	ppb	98
64)	Toluene	6.44	91	1977294	39.14	ppb	98
65)	Trans-1,3-Dichloropropene	6.63	75	606417	41.89	ppb	99
66)	1,1,2-TCA	6.79	97	403759	39.69	ppb	98
67)	2-Hexanone	7.03	43	604224	85.79	ppb	100
70)	1,2-EDB	7.24	107	432390	40.35	ppb	97
71)	Tetrachloroethene	6.93	166	612926	39.43	ppb	98
72)	1-Chlorohexane	7.69	91	662467	38.81	ppb	98
73)	1,1,1,2-Tetrachloroethane	7.78	131	474672	41.64	ppb	97
74)	m&p-Xylene	7.92	91	3319714	77.82	ppb	100
75)	o-Xylene	8.28	91	1709921	38.47	ppb	99
76)	Styrene	8.29	104	1478077	39.29	ppb	97
78)	1,3-Dichloropropane	6.94	76	666316	39.86	ppb	100
79)	Dibromochloromethane	7.14	129	469508	41.73	ppb	98
80)	Chlorobenzene	7.70	112	1355253	39.17	ppb	99
81)	Ethylbenzene	7.81	91	2171440	39.27	ppb	100
82)	Bromoform	8.45	173	365963	43.50	ppb	100
84)	Isopropylbenzene	8.64	105	2244353	40.52	ppb	99
85)	1,1,2,2-Tetrachloroethane	8.90	83	546403	43.83	ppb	96
86)	1,2,3-Trichloropropane	8.94	110	175502	42.59	ppb	97
87)	t-1,4-Dichloro-2-Butene	8.96	53	127712	41.74	ppb	94
88)	Bromobenzene	8.91	77	972561	40.74	ppb	98
89)	n-Propylbenzene	9.03	91	2640136	40.82	ppb	98
90)	4-Ethyltoluene	9.14	105	2253901	40.24	ppb	100
91)	2-Chlorotoluene	9.10	91	1533597	38.35	ppb	98
92)	1,3,5-Trimethylbenzene	9.20	105	1941488	40.66	ppb	98
93)	4-Chlorotoluene	9.21	91	1784498	40.19	ppb	97
94)	Tert-Butylbenzene	9.52	119	1726004	40.69	ppb	98
95)	1,2,4-Trimethylbenzene	9.56	105	1955696	40.85	ppb	99
96)	Sec-Butylbenzene	9.73	105	2573819	40.78	ppb	99
97)	p-Isopropyltoluene	9.87	119	2235302	41.19	ppb	100
98)	Benzyl Chloride	10.04	91	940344	43.26	ppb	99
99)	1,3-DCB	9.82	146	1199174	39.85	ppb	98
100)	1,4-DCB	9.90	146	1210697	39.93	ppb	98
101)	n-Butylbenzene	10.27	91	2037255	42.11	ppb	100
102)	1,2-DCB	10.26	146	1119926	39.75	ppb	99
103)	Hexachloroethane	10.52	201	371033	38.65	ppb	92
104)	1,2-Dibromo-3-chloropropan	11.02	157	154773	44.23	ppb	96
105)	1,2,4-Trichlorobenzene	11.84	180	860264	41.15	ppb	99
106)	Hexachlorobutadiene	12.04	225	393918	41.77	ppb	97
107)	Naphthalene	12.08	128	1999191	41.16	ppb	100
108)	1,2,3-Trichlorobenzene	12.32	180	765066	41.18	ppb	95

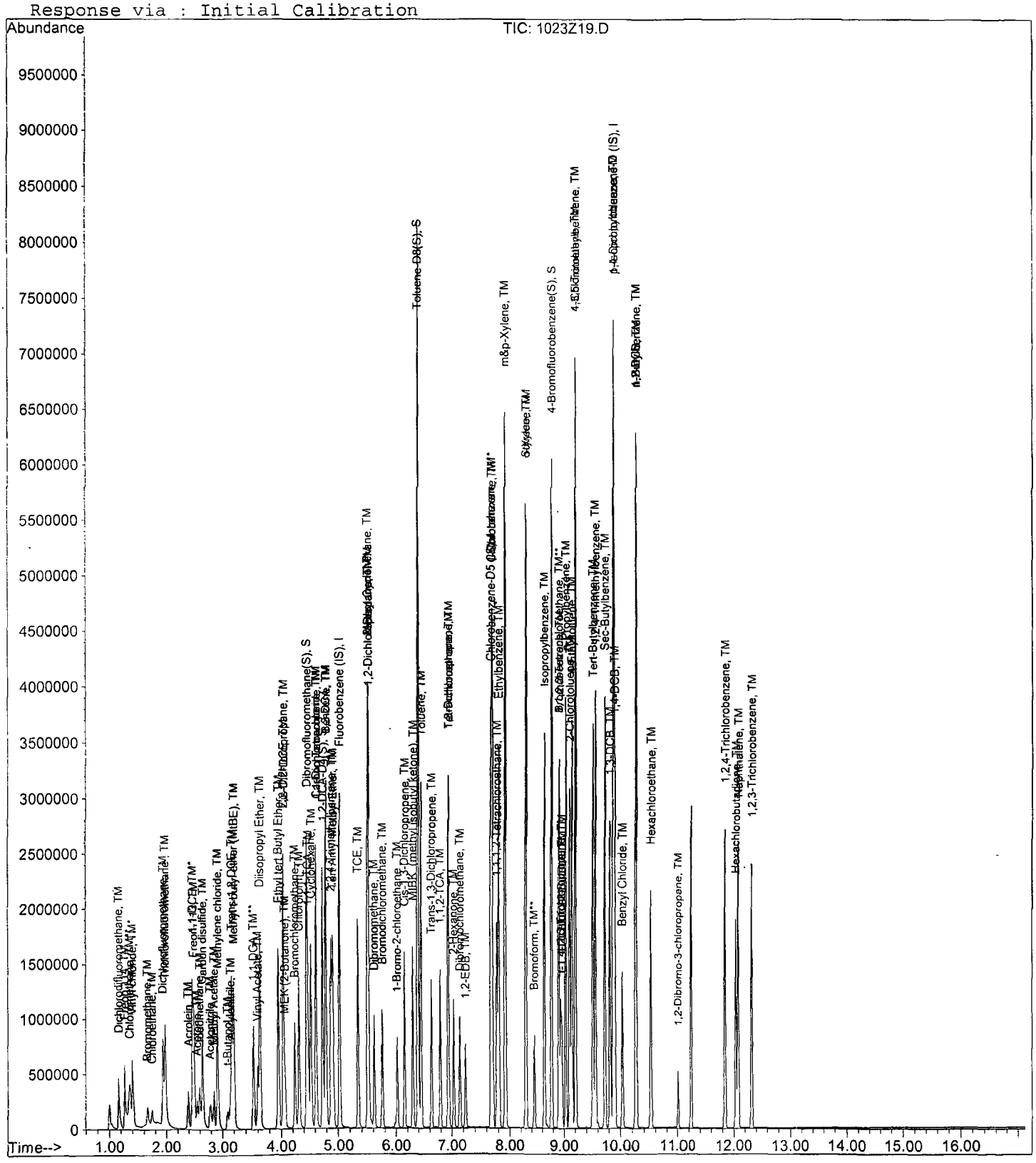
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z19.D Vial: 14
Acq On : 23 Oct 20 18:58 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z20.D Vial: 15
Acq On : 23 Oct 20 19:21 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2370785	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1827598	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	995518	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	2608129	104.81	ppb	0.00
Spiked Amount 25.000			Recovery =	419.244%		
48) 1,2-DCA-D4(S)	4.72	65	2589719	109.97	ppb	0.00
Spiked Amount 25.000			Recovery =	439.876%		
69) Toluene-D8(S)	6.39	98	9795857	106.38	ppb	0.00
Spiked Amount 25.000			Recovery =	425.512%		
77) 4-Bromofluorobenzene(S)	8.77	95	3866481	110.34	ppb	0.00
Spiked Amount 25.000			Recovery =	441.356%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.15	87	336607	97.92	ppb	93
4) Freon 114	1.26	85	367431	89.13	ppb	97
5) Chloromethane	1.35	50	1507171	83.89	ppb	99
6) Vinyl chloride	1.39	62	1372241	87.22	ppb	100
9) Bromomethane	1.65	94	238162	98.53	ppb	99
10) Chloroethane	1.74	64	213285	100.23	ppb	95
11) Dichlorofluoromethane	1.92	67	355426	15.24	ppb	97
12) Trichlorofluoromethane	1.96	101	948217	52.62	ppb	99
16) Acrolein	2.39	55	206004	196.40	ppb	99
17) Acetone	2.55	43	701899	188.26	ppb	98
18) Freon-113	2.47	101	1055252	109.23	ppb	99
19) 1,1-DCE	2.45	61	1585721	102.98	ppb	98
21) Acetonitrile	2.79	40	48358	116.34	ppb	99
22) t-Butanol	3.11	59	71846	129.62	ppb	98
23) Methyl Acetate	2.85	43	956007	103.47	ppb	99
24) Iodomethane	2.58	142	1390007	99.78	ppb	100
25) Acrylonitrile	3.14	52	438474	101.01	ppb	97
26) Methylene chloride	2.90	84	1210199	99.89	ppb	98
27) Carbon disulfide	2.63	76	1549312	88.89	ppb	99
28) Methyl t-butyl ether (MtBE	3.20	73	2939622	105.88	ppb	98
29) Trans-1,2-DCE	3.16	61	1530805	100.30	ppb	99
31) Diisopropyl Ether	3.64	45	3615396	109.22	ppb	98
33) 1,1-DCA	3.52	63	1945573	99.67	ppb	98
34) Vinyl Acetate	3.60	43	1702657	112.50	ppb	97
35) Ethyl tert Butyl Ether	3.95	59	3346039	109.97	ppb	99
36) MEK (2-Butanone)	4.07	43	1196186	228.85	ppb	99
37) Cis-1,2-DCE	4.03	61	1820040	100.59	ppb	96
38) 2,2-Dichloropropane	4.03	77	1569357	99.95	ppb	95
41) Chloroform	4.31	83	1967059	98.43	ppb	99
42) Bromochloromethane	4.23	49	909805	96.11	ppb	99
44) 1,1,1-TCA	4.46	97	1716745	100.64	ppb	98
45) Cyclohexane	4.51	56	1891717	103.79	ppb	97
46) 1,1-Dichloropropene	4.61	75	1527674	103.61	ppb	98
47) 2,2,4-Trimethylpentane	4.87	57	4122465	116.31	ppb	99
49) Carbon Tetrachloride	4.61	117	1496307	104.01	ppb	100
50) Tert Amyl Methyl Ether	4.91	73	3047991	109.91	ppb	99
52) 1,2-DCA	4.79	62	1397890	98.43	ppb	99
53) Benzene	4.78	78	4691369	98.72	ppb	98
54) TCE	5.33	130	1482021	98.42	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z20.D Vial: 15
Acq On : 23 Oct 20 19:21 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
55)	2-Pentanone	5.50	43	2190063	258.75 ppb	95
56)	1,2-Dichloropropane	5.52	63	1198261	102.02 ppb	100
57)	Bromodichloromethane	5.75	83	1472223	104.18 ppb	100
58)	Methyl Cyclohexane	5.51	83	2074185	110.65 ppb	99
59)	Dibromomethane	5.61	174	960495	97.71 ppb	93
60)	MIBK (methyl isobutyl ket	6.30	43	2423018	240.84 ppb	100
61)	1-Bromo-2-chloroethane	6.02	144	225034	99.39 ppb	95
63)	Cis-1,3-Dichloropropene	6.14	75	1900108	106.26 ppb	95
64)	Toluene	6.44	91	5170336	100.16 ppb	98
65)	Trans-1,3-Dichloropropene	6.63	75	1626091	109.94 ppb	98
66)	1,1,2-TCA	6.79	97	1065258	102.48 ppb	98
67)	2-Hexanone	7.03	43	1657205	230.30 ppb	97
70)	1,2-EDB	7.24	107	1142419	103.09 ppb	99
71)	Tetrachloroethene	6.93	166	1536824	95.61 ppb	99
72)	1-Chlorohexane	7.69	91	1785957	100.65 ppb	89
73)	1,1,1,2-Tetrachloroethane	7.78	131	1250066	106.03 ppb	98
74)	m&p-Xylene	7.92	91	8660061	196.31 ppb	99
75)	o-Xylene	8.28	91	4617223	100.45 ppb	98
76)	Styrene	8.29	104	3931029	101.05 ppb	92
78)	1,3-Dichloropropane	6.94	76	1773458	102.58 ppb	99
79)	Dibromochloromethane	7.14	129	1260484	108.32 ppb	98
80)	Chlorobenzene	7.70	112	3527531	98.59 ppb	95
81)	Ethylbenzene	7.81	91	5680956	99.33 ppb	99
82)	Bromoform	8.45	173	999881	114.91 ppb	98
84)	Isopropylbenzene	8.64	105	5862253	107.11 ppb	99
85)	1,1,2,2-Tetrachloroethane	8.90	83	1494431	121.32 ppb	97
86)	1,2,3-Trichloropropane	8.94	110	465247	114.27 ppb	95
87)	t-1,4-Dichloro-2-Butene	8.97	53	355548	117.60 ppb	89
88)	Bromobenzene	8.91	77	2674043	113.38 ppb	87
89)	n-Propylbenzene	9.03	91	6848668	107.18 ppb	97
90)	4-Ethyltoluene	9.14	105	5811686	105.01 ppb	99
91)	2-Chlorotoluene	9.10	91	4042926	102.33 ppb	97
92)	1,3,5-Trimethylbenzene	9.20	105	5110929	108.33 ppb	96
93)	4-Chlorotoluene	9.21	91	4862593	110.83 ppb	93
94)	Tert-Butylbenzene	9.52	119	4427839	105.65 ppb	99
95)	1,2,4-Trimethylbenzene	9.56	105	5108668	108.00 ppb	97
96)	Sec-Butylbenzene	9.73	105	6611211	106.03 ppb	99
97)	p-Isopropyltoluene	9.87	119	5670507	105.77 ppb	99
98)	Benzyl Chloride	10.04	91	2500873	116.43 ppb	99
99)	1,3-DCB	9.82	146	3046607	102.46 ppb	99
100)	1,4-DCB	9.90	146	3025080	100.98 ppb	99
101)	n-Butylbenzene	10.27	91	5369898	112.35 ppb	98
102)	1,2-DCB	10.26	146	2780086	99.87 ppb	97
103)	Hexachloroethane	10.52	201	977165	100.88 ppb	90
104)	1,2-Dibromo-3-chloropropan	11.02	157	418743	121.12 ppb	94
105)	1,2,4-Trichlorobenzene	11.84	180	2107121	102.02 ppb	100
106)	Hexachlorobutadiene	12.03	225	956539	102.67 ppb	97
107)	Naphthalene	12.08	128	4994744	104.07 ppb	100
108)	1,2,3-Trichlorobenzene	12.32	180	1872788	102.02 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

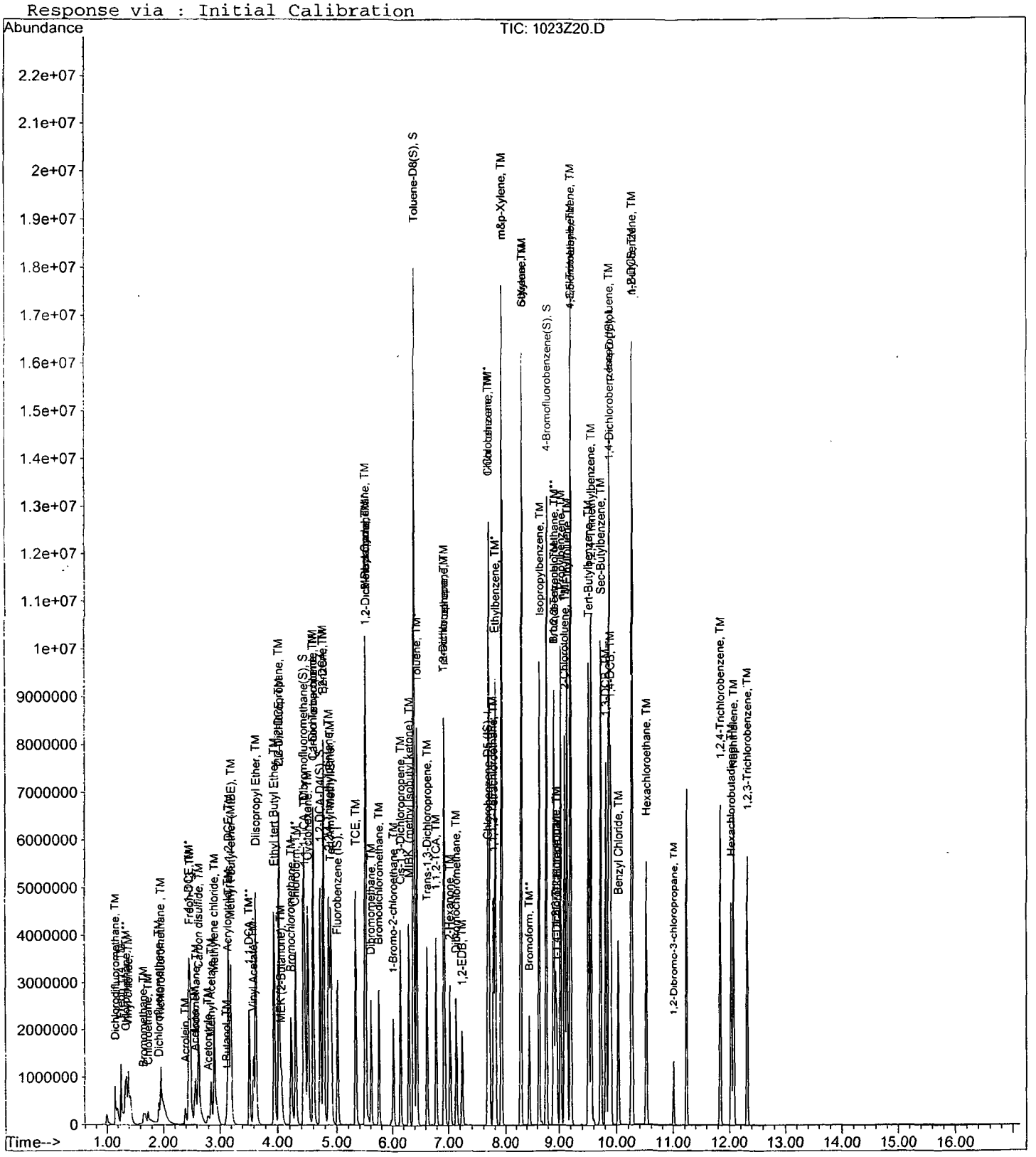
Data File : M:\ZEUS\DATA\201023\1023Z20.D
Acq On : 23 Oct 20 19:21
Sample : 100ug/L VOC STD 10/23/20
Misc :

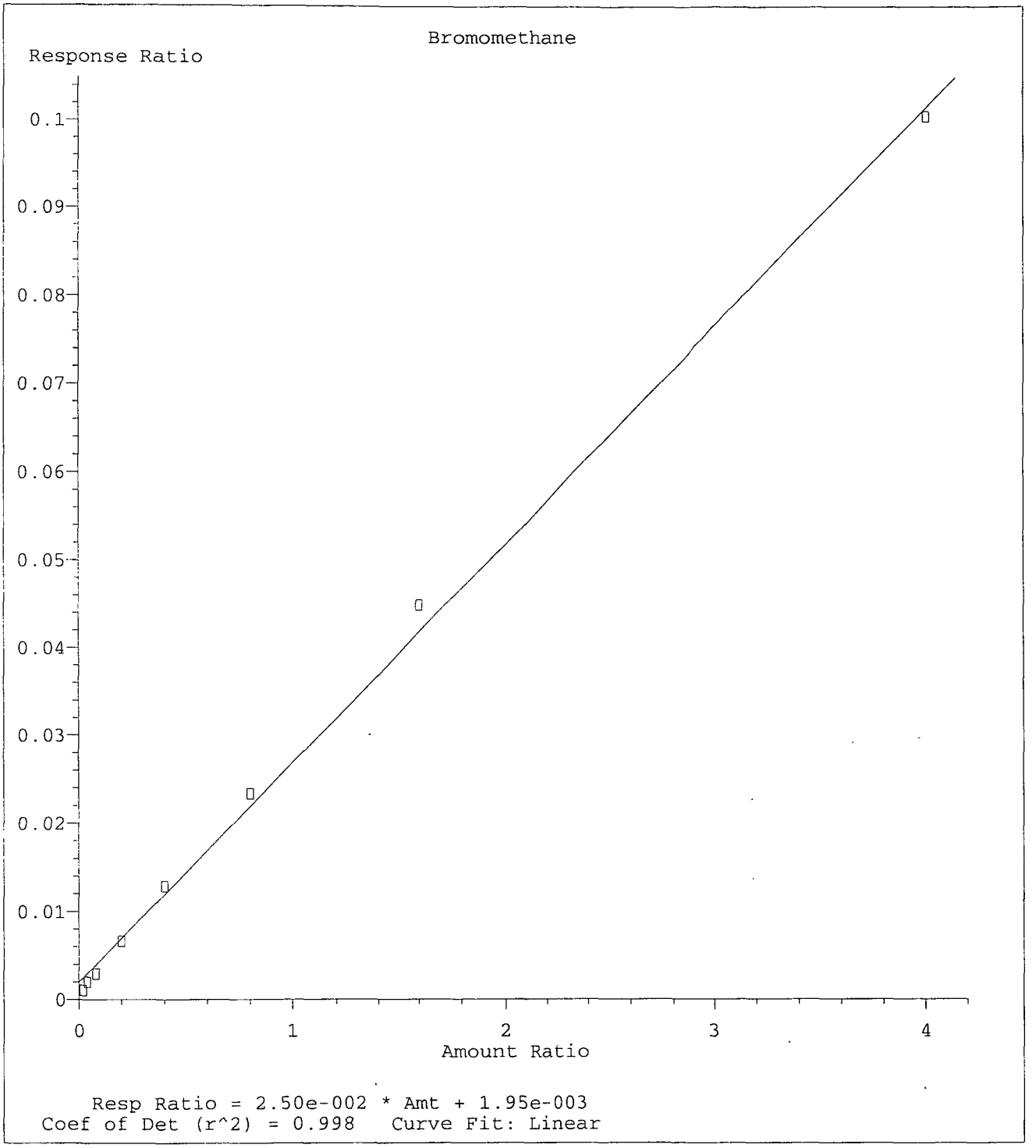
Vial: 15
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:13 2020

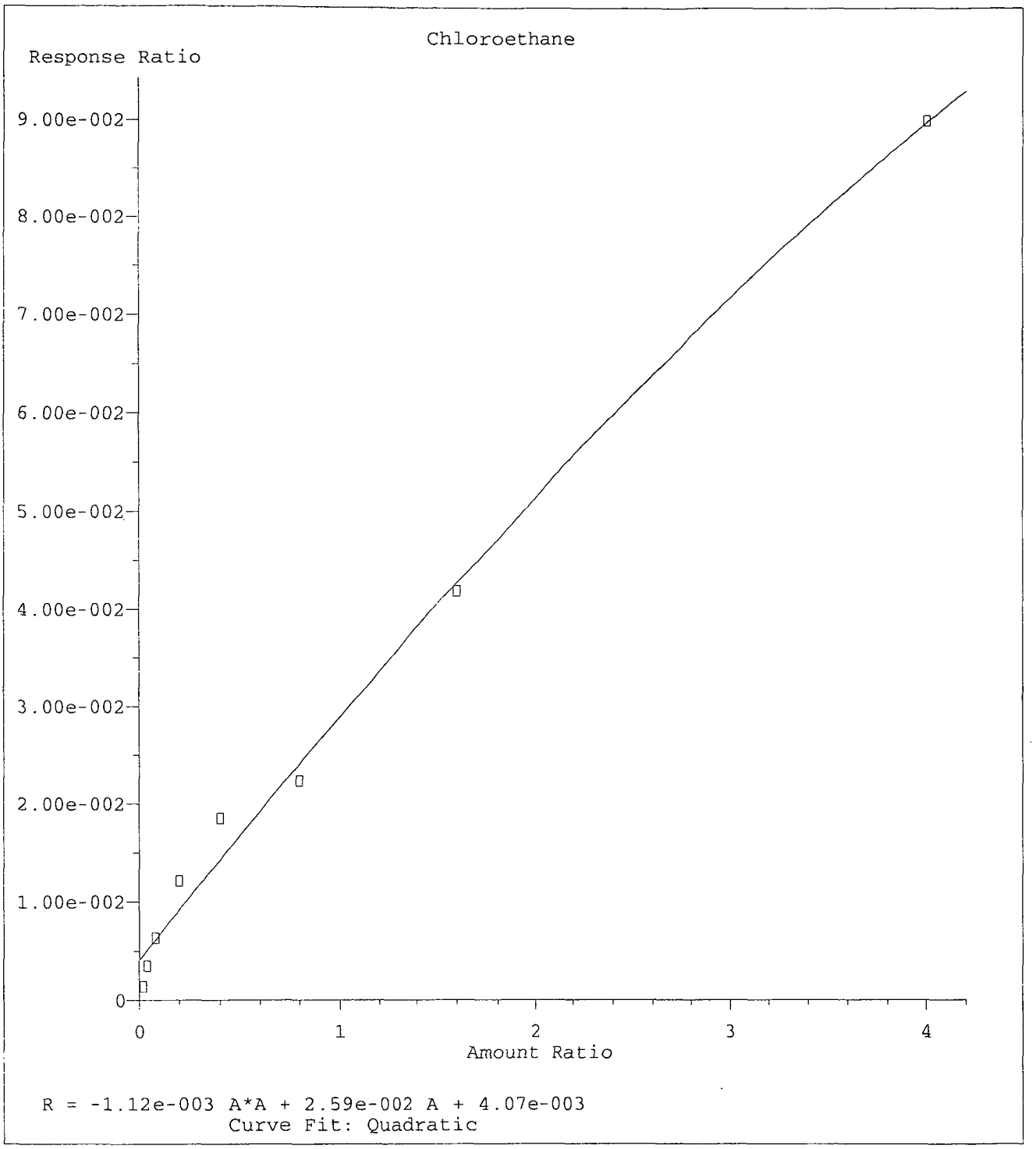
Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration

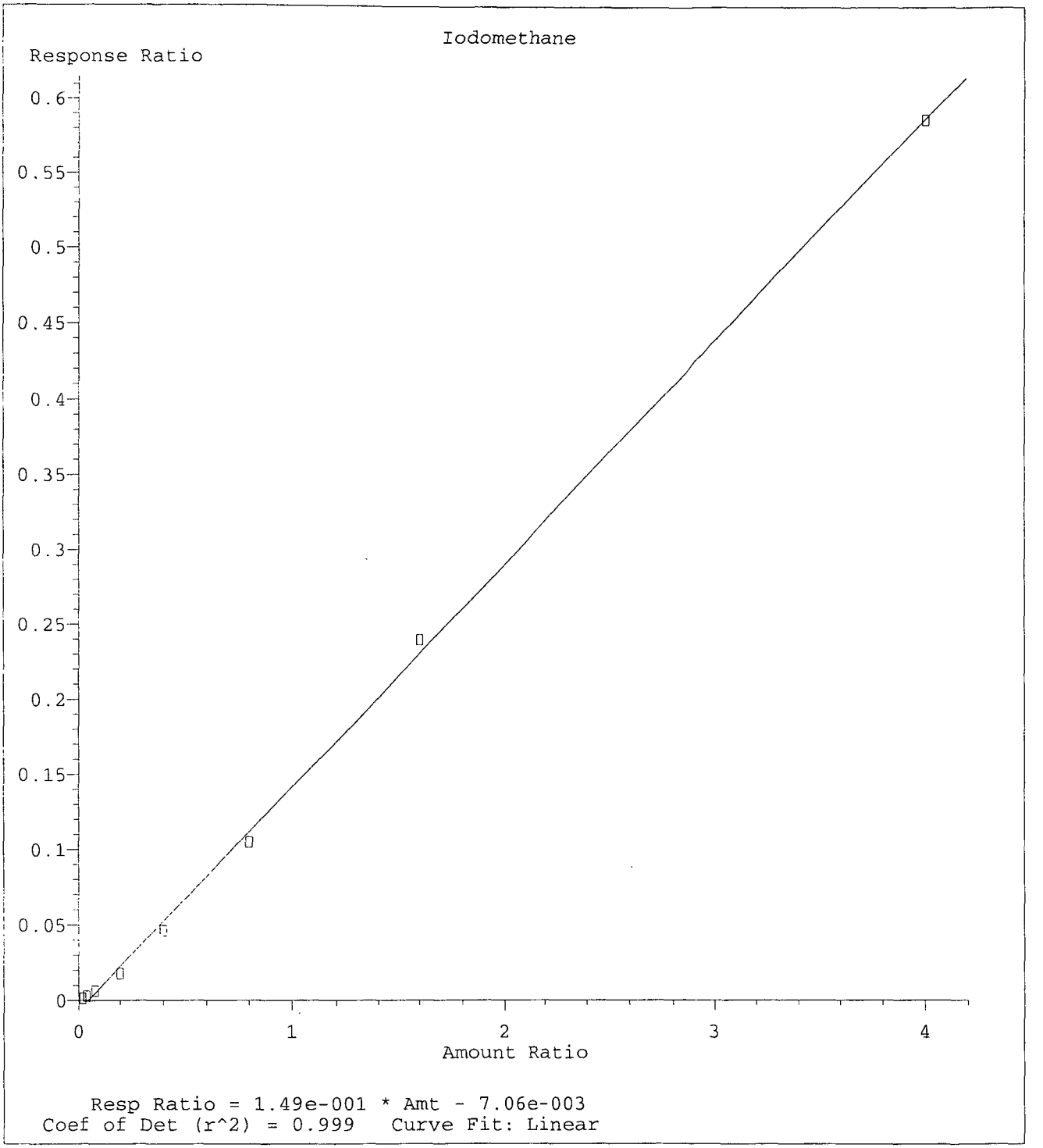




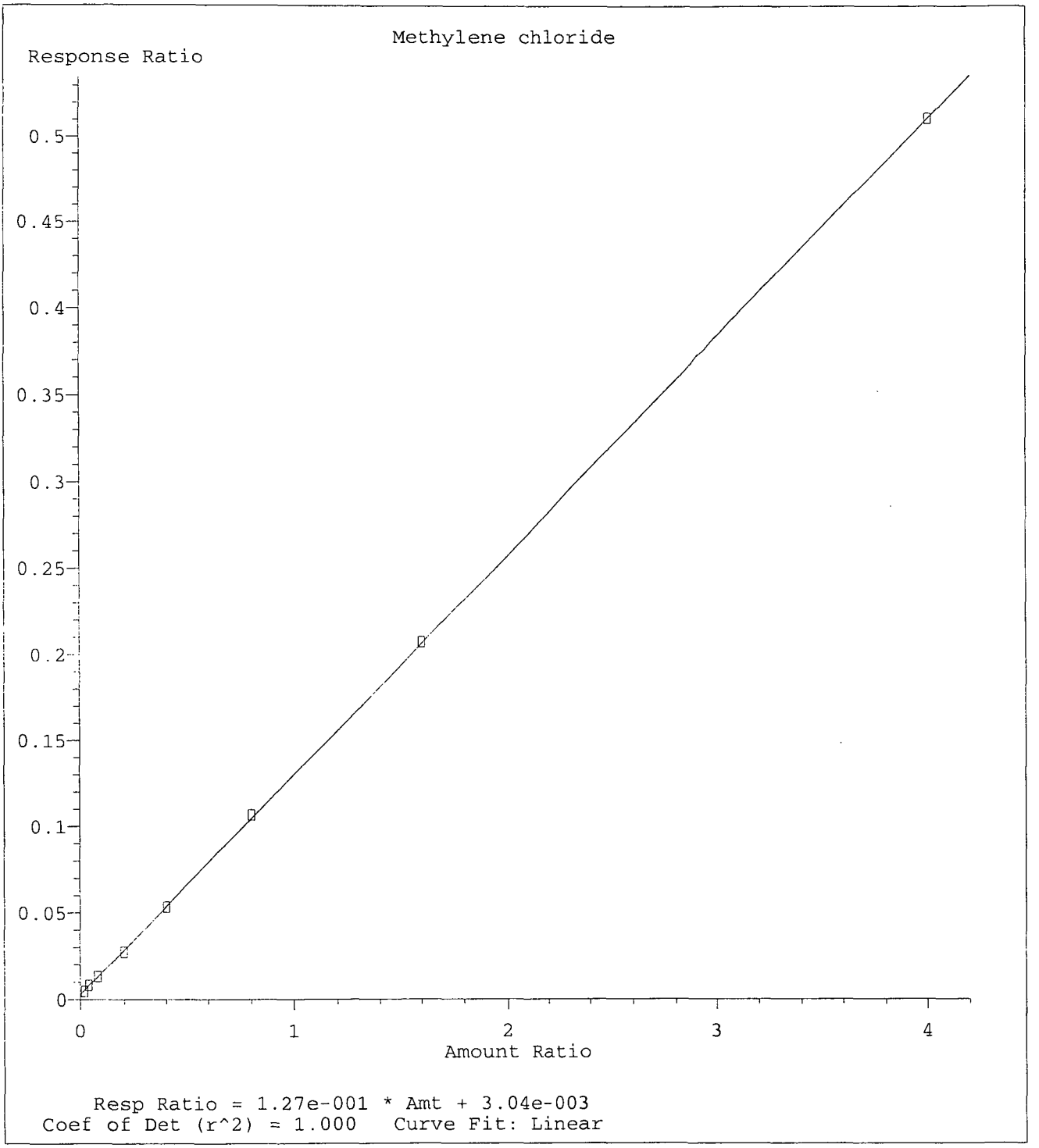
Method Name: M:\ZEUS\DATA\201023\Z1023W.M
Calibration Table Last Updated: Mon Oct 26 12:12:53 2020



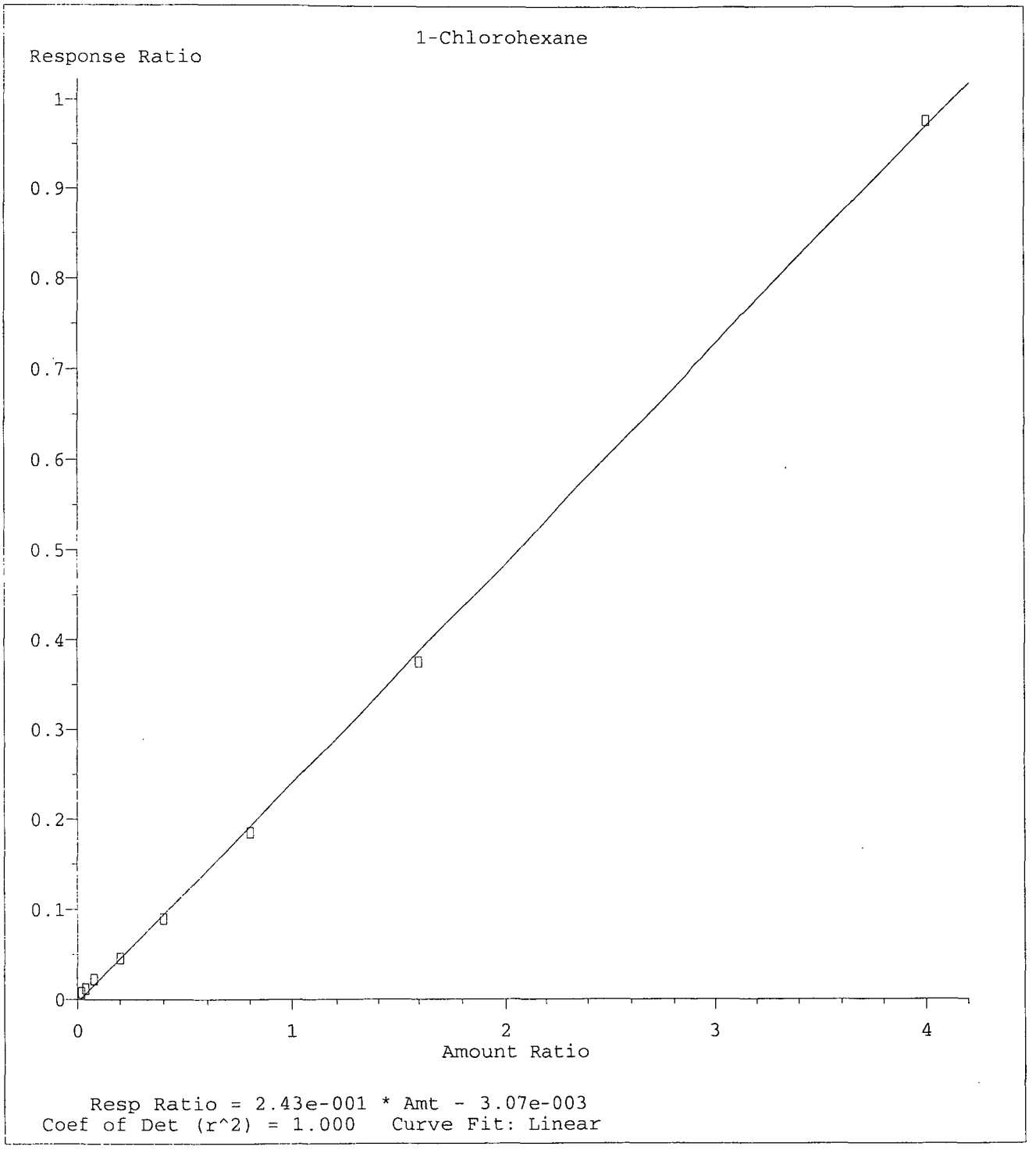
Method Name: M:\ZEUS\DATA\201023\Z1023W.M
Calibration Table Last Updated: Mon Oct 26 12:12:53 2020



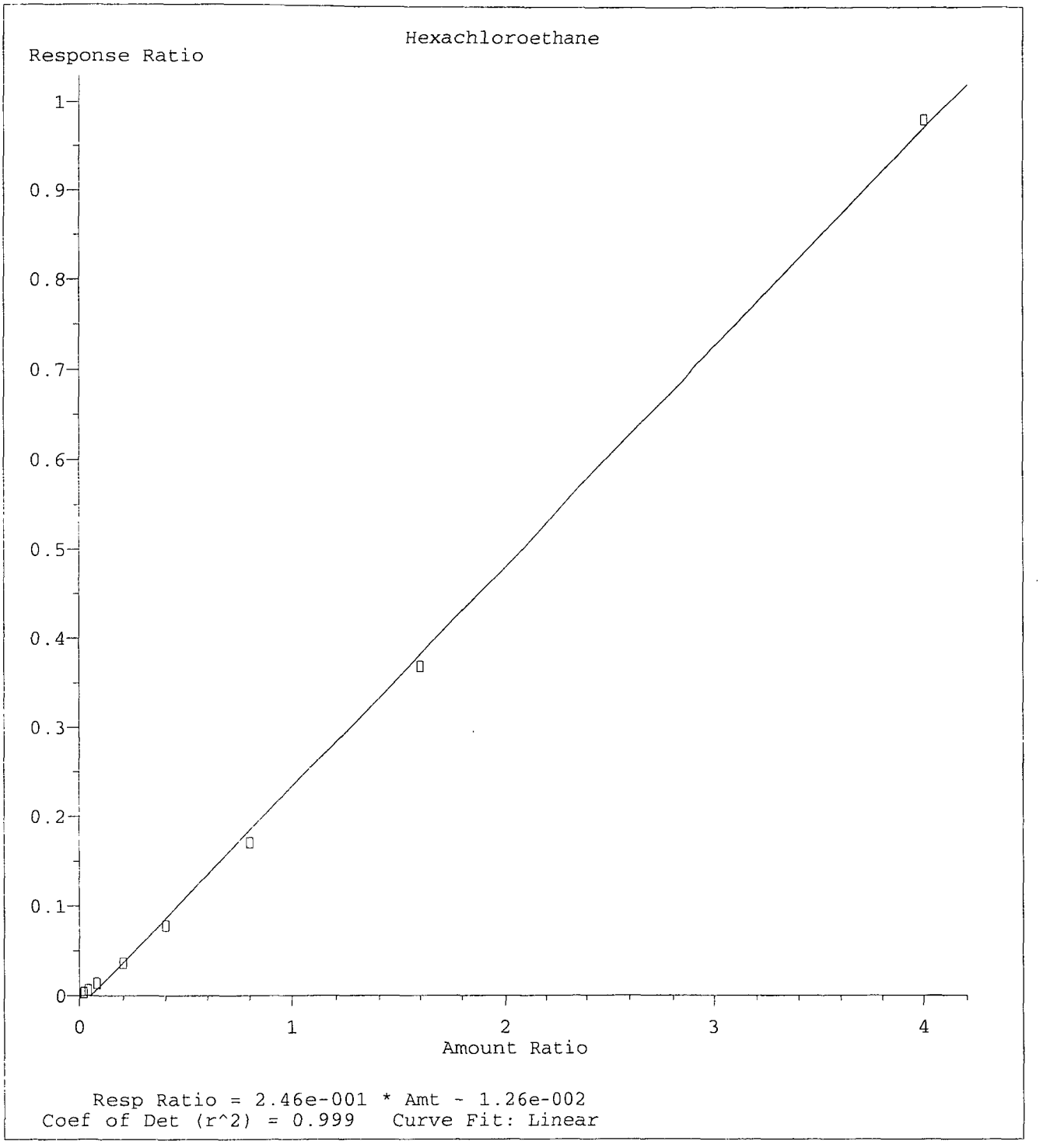
Method Name: M:\ZEUS\DATA\201023\Z1023W.M
Calibration Table Last Updated: Mon Oct 26 12:12:53 2020



Method Name: M:\ZEUS\DATA\201023\Z1023W.M
Calibration Table Last Updated: Mon Oct 26 12:12:53 2020



Method Name: M:\ZEUS\DATA\201023\Z1023W.M
Calibration Table Last Updated: Mon Oct 26 12:12:53 2020



Method Name: M:\ZEUS\DATA\201023\Z1023W.M
Calibration Table Last Updated: Mon Oct 26 12:12:53 2020

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/23/20
Instrument: ZEUS
Initial Cal. Date: 10/23/20
Data File: 1023Z22.D

		Compound	MEAN	CCRF	%D		%Drift	
1	TM	Dichlorodifluoromethane	0.0362	0.0322	11	TM		
2	TM	Freon 114	0.0435	0.0506	16	TM		
3	TM**	Chloromethane	0.1895	0.1516	20	TM**		
4	TM*	Vinyl chloride	0.1659	0.1465	12	TM*		
5		Butane	0.0000	0.0003	0.00			
6	TML	Bromomethane	0.0357	0.0330	7.6	TML	13	
7	TMQ	Chloroethane	0.0524	0.0353	33	TMQ	1.3	
8	TM	Dichlorofluoromethane	0.2459	0.2130	13	TM		
9	TM	Trichlorofluoromethane	0.1900	0.1584	17	TM		
10	TM	Pentane	0.0000	0.0014	0.00	TM		
11	TM	1,2 Dichlorotrifluoroethane	0.0000	0.0003	0.00	TM		
12	TM	Acrolein	0.0111	0.0111	0.67	TM		
13	TM	Acetone	0.0393	0.0382	2.9	TM		
14	TM	Freon-113	0.1019	0.0901	12	TM		
15	TM*	1,1-DCE	0.1624	0.1584	2.4	TM*		
16	TM	2-Propanol	0.0000	0.0002	0.00	TM		
17	TM	Acetonitrile	0.0044	0.0044	0.94	TM		
18	TM	t-Butanol	0.0058	0.0065	12	TM		
19	TM	Methyl Acetate	0.0974	0.0849	13	TM		
20	TML	Iodomethane	0.1056	0.0820	22	TML	33	*NT
21	TM	Acrylonitrile	0.0458	0.0418	8.7	TM		
22	TML	Methylene chloride	0.1591	0.1375	14	TML	2.3	
23	TM	Carbon disulfide	0.1838	0.1757	4.4	TM		
24	TM	Methyl t-butyl ether (MtBE)	0.2928	0.2659	9.2	TM		
25	TM	Trans-1,2-DCE	0.1609	0.1594	0.94	TM		
26	TM	Hexane	0.0000	0.0008	0.00	TM		
27	TM	Diisopropyl Ether	0.3491	0.3138	10	TM		
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0001	0.00	TM**		
29	TM**	1,1-DCA	0.2058	0.2086	1.3	TM**		
30	TM	Vinyl Acetate	0.1596	0.2145	34	TM		*NT
31	TM	Ethyl tert Butyl Ether	0.3209	0.2860	11	TM		
32	TM	MEK (2-Butanone)	0.0551	0.0585	6.1	TM		
33	TM	Cis-1,2-DCE	0.1908	0.1828	4.2	TM		
34	TM	2,2-Dichloropropane	0.1656	0.1500	9.4	TM		
35	TM	2-Methylpentane	0.0000	0.0228	0.00	TM		
36	TM	3-Methylpentane	0.0000	0.0607	0.00	TM		
37	TM*	Chloroform	0.2107	0.2047	2.9	TM*		
38	TM	Bromochloromethane	0.0998	0.0974	2.4	TM		
39	TM	1,1,1-TCA	0.1799	0.1747	2.9	TM		
40	TM	Cyclohexane	0.1922	0.1681	13	TM		
		Average			8.2			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/23/20
Matrix: water Instrument: ZEUS
Cal. Date: 10/23/20
Data File: 1023Z22.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	1,1-Dichloropropene	0.1555	0.1568	0.86	TM	
42	TM	2,2,4-Trimethylpentane	0.3737	0.3131	16	TM	
43	TM	Carbon Tetrachloride	0.1517	0.1457	4.0	TM	
44	TM	Tert Amyl Methyl Ether	0.2924	0.2665	8.9	TM	
45	TM	Methylcyclopentane	0.0000	0.0161	0.00	TM	
46	TM	1,2-DCA	0.1498	0.1420	5.2	TM	
47	TM	Benzene	0.5011	0.4933	1.6	TM	
48	TM	TCE	0.1588	0.1598	0.62	TM	
49	TM	2-Pentanone	0.0893	0.0906	1.5	TM	
50	TM*	1,2-Dichloropropane	0.1239	0.1210	2.3	TM*	
51	TM	Bromodichloromethane	0.1490	0.1417	4.9	TM	
52	TM	Methyl Cyclohexane	0.1977	0.1779	10.0	TM	
53	TM	Dibromomethane	0.1037	0.1019	1.7	TM	
54	TM	MIBK (methyl isobutyl ketone)	0.1061	0.1094	3.1	TM	
55	TM	1-Bromo-2-chloroethane	0.0239	0.0214	10	TM	
56	TM	2-Chloroethyl vinyl ether	0.0000	0.0001	0.00	TM	
57	TM	Cis-1,3-Dichloropropene	0.1886	0.1871	0.77	TM	
58	TM*	Toluene	0.5444	0.5312	2.4	TM*	
59	TM	Trans-1,3-Dichloropropene	0.1560	0.1543	1.1	TM	
60	TM	1,1,2-TCA	0.1096	0.1086	0.93	TM	
61	TM	2-Hexanone	0.0759	0.0774	2.0	TM	
62	TM	1,2-EDB	0.1516	0.1561	3.0	TM	
63	TM	Tetrachloroethene	0.2199	0.2184	0.67	TM	
64	TML	1-Chlorohexane	0.2642	0.2125	20	TML	9.6
65	TM	1,1,1,2-Tetrachloroethane	0.1613	0.1621	0.51	TM	
66	TM	m&p-Xylene	0.6035	0.5898	2.3	TM	
67	TM	o-Xylene	0.6288	0.6032	4.1	TM	
68	TM	Styrene	0.5322	0.5204	2.2	TM	
69	TM	1,3-Dichloropropane	0.2365	0.2355	0.44	TM	
70	TM	Dibromochloromethane	0.1592	0.1565	1.7	TM	
71	TM**	Chlorobenzene	0.4894	0.4819	1.5	TM**	
72	TM*	Ethylbenzene	0.7823	0.7638	2.4	TM*	
73	TM**	Bromoform	0.1190	0.1127	5.3	TM**	
74	TM	Isopropylbenzene	1.374	1.342	2.4	TM	
75	TM**	1,1,2,2-Tetrachloroethane	0.3093	0.3101	0.25	TM**	
76	TM	1,2,3-Trichloropropane	0.1022	0.1023	0.05	TM	
77	TM	t-1,4-Dichloro-2-Butene	0.0759	0.0633	17	TM	
78	TM	Bromobenzene	0.5923	0.5717	3.5	TM	
79	TM	n-Propylbenzene	1.605	1.564	2.5	TM	
80	TM	4-Ethyltoluene	1.390	1.245	10	TM	
		Average			3.9		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/23/20
Instrument: ZEUS
Cal. Date: 10/23/20
Data File: 1023Z22.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	2-Chlorotoluene	0.9921	0.9184	7.4	TM	
82	TM	1,3,5-Trimethylbenzene	1.185	1.161	2.0	TM	
83	TM	4-Chlorotoluene	1.102	1.067	3.1	TM	
84	TM	Tert-Butylbenzene	1.053	1.025	2.6	TM	
85	TM	1,2,4-Trimethylbenzene	1.188	1.165	2.0	TM	
86	TM	Sec-Butylbenzene	1.566	1.513	3.4	TM	
87	TM	p-Isopropyltoluene	1.346	1.340	0.48	TM	
88	TM	Benzyl Chloride	0.5394	0.4519	16	TM	
89	TM	1,3-DCB	0.7467	0.7319	2.0	TM	
90	TM	1,4-DCB	0.7523	0.7449	0.99	TM	
91	TM	n-Butylbenzene	1.200	1.148	4.4	TM	
92	TM	1,2-DCB	0.6990	0.6860	1.9	TM	
93	TML	Hexachloroethane	0.1956	0.1761	10.0	TML	16
94	TM	1,2-Dibromo-3-chloropropane	0.0868	0.0858	1.1	TM	
95	TM	1,2,4-Trichlorobenzene	0.5187	0.5165	0.42	TM	
96	TM	Hexachlorobutadiene	0.2340	0.2249	3.9	TM	
97	TM	Naphthalene	1.205	1.228	1.9	TM	
98	TM	1,2,3-Trichlorobenzene	0.4610	0.4625	0.33	TM	
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			3.6		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z22.D Vial: 17
Acq On : 23 Oct 20 20:07 Operator: LP,DG,CH
Sample : (SS)10ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2348020	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1771923	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	1042867	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.45	111	630334	25.58	ppb	0.00
Spiked Amount 25.000			Recovery =	102.304%		
48) 1,2-DCA-D4(S)	4.72	65	592332	25.40	ppb	0.00
Spiked Amount 25.000			Recovery =	101.584%		
69) Toluene-D8(S)	6.39	98	2302660	25.79	ppb	0.00
Spiked Amount 25.000			Recovery =	103.164%		
77) 4-Bromofluorobenzene(S)	8.77	95	860714	25.33	ppb	0.00
Spiked Amount 25.000			Recovery =	101.336%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.16	87	30200	8.87	ppb	97
4) Freon 114	1.26	85	47522	11.64	ppb	93
5) Chloromethane	1.34	50	142366	8.00	ppb	100
6) Vinyl chloride	1.39	62	137577	8.83	ppb	99
9) Bromomethane	1.66	94	31021	11.27	ppb	98
10) Chloroethane	1.74	64	33185	9.87	ppb	92
11) Dichlorofluoromethane	1.94	67	200040	8.66	ppb	98
12) Trichlorofluoromethane	1.98	101	148728	8.33	ppb	99
16) Acrolein	2.39	55	130730	125.84	ppb	100
17) Acetone	2.54	43	179328	48.56	ppb	98
18) Freon-113	2.49	101	84654	8.85	ppb	95
19) 1,1-DCE	2.47	61	148778	9.76	ppb	94
21) Acetonitrile	2.77	40	51940	126.17	ppb	97
22) t-Butanol	3.08	59	76864	140.02	ppb	100
23) Methyl Acetate	2.85	43	79783	8.72	ppb	100
24) Iodomethane	2.59	142	76974	6.70	ppb	96
25) Acrylonitrile	3.13	52	39252	9.13	ppb	96
26) Methylene chloride	2.91	84	129171	10.23	ppb	99
27) Carbon disulfide	2.65	76	164992	9.56	ppb	100
28) Methyl t-butyl ether (MtBE	3.19	73	249705	9.08	ppb	100
29) Trans-1,2-DCE	3.16	61	149728	9.91	ppb	98
31) Diisopropyl Ether	3.63	45	294719	8.99	ppb	97
33) 1,1-DCA	3.53	63	195892	10.13	ppb	97
34) Vinyl Acetate	3.60	43	201494	13.44	ppb	99
35) Ethyl tert Butyl Ether	3.95	59	268589	8.91	ppb	97
36) MEK (2-Butanone)	4.06	43	274594	53.04	ppb	100
37) Cis-1,2-DCE	4.03	61	171708	9.58	ppb	98
38) 2,2-Dichloropropane	4.03	77	140869	9.06	ppb	94
41) Chloroform	4.31	83	192227	9.71	ppb	98
42) Bromochloromethane	4.23	49	91487	9.76	ppb	95
44) 1,1,1-TCA	4.47	97	164110	9.71	ppb	99
45) Cyclohexane	4.52	56	157883	8.75	ppb	97
46) 1,1-Dichloropropene	4.61	75	147288	10.09	ppb	97
47) 2,2,4-Trimethylpentane	4.88	57	294035	8.38	ppb	99
49) Carbon Tetrachloride	4.61	117	136841	9.60	ppb	98
50) Tert Amyl Methyl Ether	4.90	73	250273	9.11	ppb	99
52) 1,2-DCA	4.79	62	133342	9.48	ppb	98
53) Benzene	4.78	78	463312	9.84	ppb	99
54) TCE	5.33	130	150062	10.06	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z22.D Vial: 17
Acq On : 23 Oct 20 20:07 Operator: LP,DG,CH
Sample : (SS)10ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
55)	2-Pentanone	5.49	43	1063184	126.83 ppb	100
56)	1,2-Dichloropropane	5.52	63	113676	9.77 ppb	99
57)	Bromodichloromethane	5.75	83	133108	9.51 ppb	96
58)	Methyl Cyclohexane	5.51	83	167114	9.00 ppb	95
59)	Dibromomethane	5.61	174	95731	9.83 ppb	92
60)	MIBK (methyl isobutyl ket	6.29	43	513821	51.57 ppb	100
61)	1-Bromo-2-chloroethane	6.02	144	20082	8.96 ppb	91
63)	Cis-1,3-Dichloropropene	6.14	75	175720	9.92 ppb	97
64)	Toluene	6.44	91	498893	9.76 ppb	100
65)	Trans-1,3-Dichloropropene	6.63	75	144943	9.89 ppb	99
66)	1,1,2-TCA	6.79	97	101997	9.91 ppb	99
67)	2-Hexanone	7.03	43	363308	50.98 ppb	98
70)	1,2-EDB	7.24	107	110672	10.30 ppb	97
71)	Tetrachloroethene	6.93	166	154802	9.93 ppb	97
72)	1-Chlorohexane	7.69	91	150581	9.04 ppb	99
73)	1,1,1,2-Tetrachloroethane	7.78	131	114881	10.05 ppb	97
74)	m&p-Xylene	7.92	91	835998	19.55 ppb	99
75)	o-Xylene	8.28	91	427504	9.59 ppb	98
76)	Styrene	8.29	104	368847	9.78 ppb	100
78)	1,3-Dichloropropane	6.94	76	166883	9.96 ppb	98
79)	Dibromochloromethane	7.14	129	110891	9.83 ppb	99
80)	Chlorobenzene	7.70	112	341567	9.85 ppb	100
81)	Ethylbenzene	7.81	91	541355	9.76 ppb	99
82)	Bromoform	8.45	173	79876	9.47 ppb	100
84)	Isopropylbenzene	8.64	105	559806	9.76 ppb	99
85)	1,1,2,2-Tetrachloroethane	8.90	83	129359	10.02 ppb	99
86)	1,2,3-Trichloropropane	8.94	110	42670	10.00 ppb	97
87)	t-1,4-Dichloro-2-Butene	8.96	53	26401	8.34 ppb	95
88)	Bromobenzene	8.91	77	238496	9.65 ppb	98
89)	n-Propylbenzene	9.03	91	652458	9.75 ppb	99
90)	4-Ethyltoluene	9.14	105	519200	8.96 ppb	100
91)	2-Chlorotoluene	9.10	91	383093	9.26 ppb	98
92)	1,3,5-Trimethylbenzene	9.20	105	484231	9.80 ppb	100
93)	4-Chlorotoluene	9.20	91	445291	9.69 ppb	98
94)	Tert-Butylbenzene	9.52	119	427510	9.74 ppb	94
95)	1,2,4-Trimethylbenzene	9.56	105	485802	9.80 ppb	99
96)	Sec-Butylbenzene	9.73	105	631296	9.66 ppb	99
97)	p-Isopropyltoluene	9.87	119	558947	9.95 ppb	99
98)	Benzyl Chloride	10.03	91	188515	8.38 ppb	98
99)	1,3-DCB	9.82	146	305326	9.80 ppb	99
100)	1,4-DCB	9.90	146	310717	9.90 ppb	98
101)	n-Butylbenzene	10.27	91	478789	9.56 ppb	99
102)	1,2-DCB	10.26	146	286176	9.81 ppb	99
103)	Hexachloroethane	10.52	201	73450	8.43 ppb	91
104)	1,2-Dibromo-3-chloropropan	11.01	157	35811	9.89 ppb	97
105)	1,2,4-Trichlorobenzene	11.84	180	215451	9.96 ppb	100
106)	Hexachlorobutadiene	12.03	225	93826	9.61 ppb	98
107)	Naphthalene	12.07	128	512422	10.19 ppb	100
108)	1,2,3-Trichlorobenzene	12.32	180	192939	10.03 ppb	95

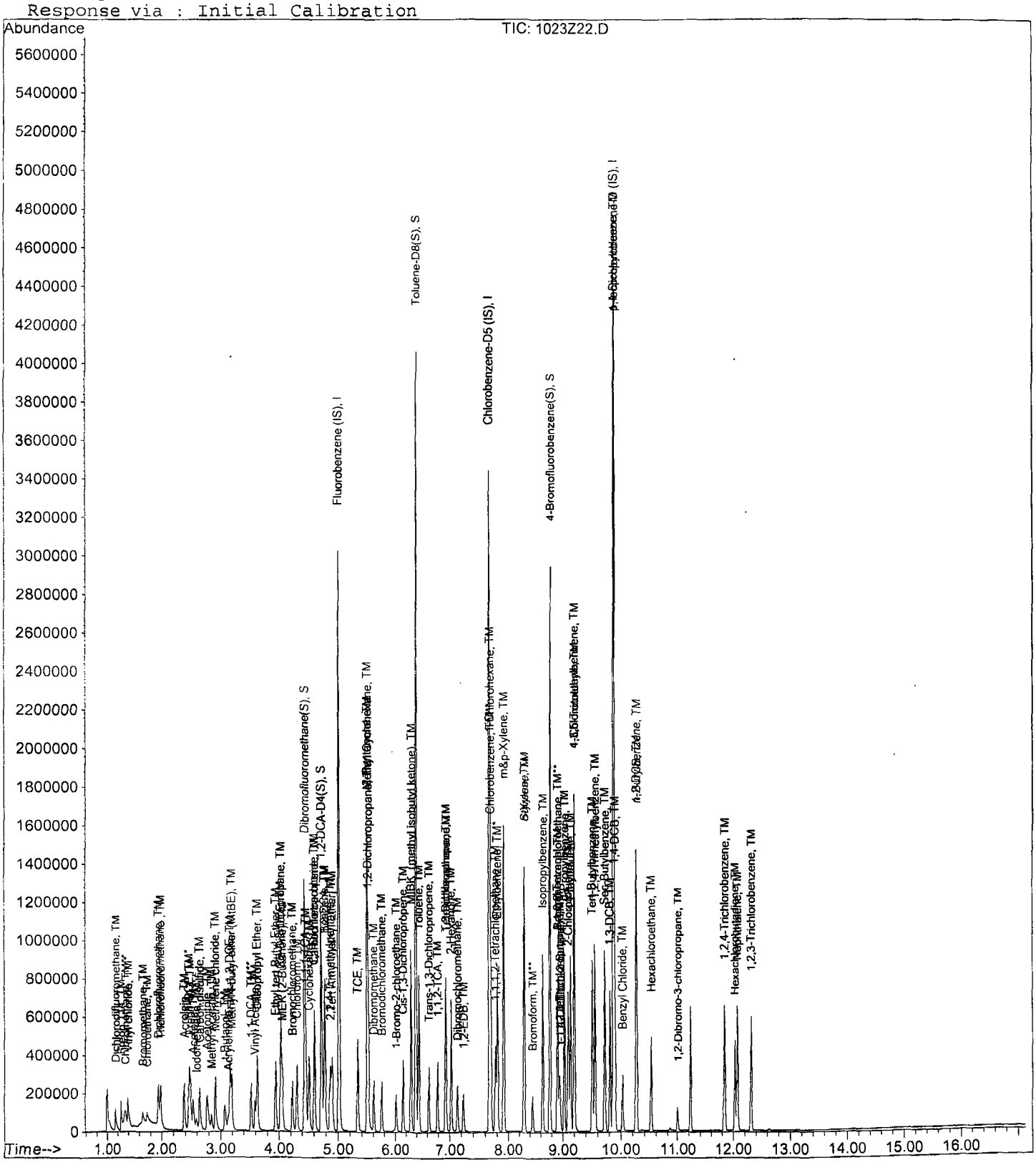
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z22.D Vial: 17
Acq On : 23 Oct 20 20:07 Operator: LP,DG,CH
Sample : (SS)10ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:13 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/24/20
Instrument: ZEUS
Initial Cal. Date: 10/23/20
Data File: 1023Z32.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.0362	0.0370	2.0	TM		
3	TM	Freon 114	0.0435	0.0445	2.3	TM		
4	TM**	Chloromethane	0.1895	0.1697	10	TM**		
5	TM*	Vinyl chloride	0.1659	0.1601	3.5	TM*		
6		Butane	0.0000	0.0003	0.00			
7	TML	Bromomethane	0.0357	0.0396	11	TML	39	*NT
8	TMQ	Chloroethane	0.0524	0.0484	7.7	TMQ	51	*NT
9	TM	Dichlorofluoromethane	0.2459	0.2575	4.7	TM		
10	TM	Trichlorofluoromethane	0.1900	0.1978	4.1	TM		
11	TM	Pentane	0.0000	0.0022	0.00	TM		
12	TM	1,2 Dichlorotrifluoroethane	0.0000	0.0001	0.00	TM		
13	TM	Acrolein	0.0111	0.0101	8.9	TM		
14	TM	Acetone	0.0393	0.0347	12	TM		
15	TM	Freon-113	0.1019	0.0997	2.1	TM		
16	TM*	1,1-DCE	0.1624	0.1536	5.4	TM*		
17	TM	2-Propanol	0.0000	0.0001	0.00	TM		
18	TM	Acetonitrile	0.0044	0.0041	5.8	TM		
19	TM	t-Butanol	0.0058	0.0055	5.6	TM		
20	TM	Methyl Acetate	0.0974	0.0869	11	TM		
21	TML	Iodomethane	0.1056	0.0857	19	TML	31	*NT
22	TM	Acrylonitrile	0.0458	0.0424	7.3	TM		
23	TML	Methylene chloride	0.1591	0.1383	13	TML	2.9	
24	TM	Carbon disulfide	0.1838	0.1716	6.6	TM		
25	TM	Methyl t-butyl ether (MtBE)	0.2928	0.2840	3.0	TM		
26	TM	Trans-1,2-DCE	0.1609	0.1527	5.1	TM		
27	TM	Hexane	0.0000	0.0008	0.00	TM		
28	TM	Diisopropyl Ether	0.3491	0.3353	3.9	TM		
29	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0001	0.00	TM**		
30	TM**	1,1-DCA	0.2058	0.2004	2.6	TM**		
31	TM	Vinyl Acetate	0.1596	0.1264	21	TM		*NT
32	TM	Ethyl tert Butyl Ether	0.3209	0.3080	4.0	TM		
33	TM	MEK (2-Butanone)	0.0551	0.0522	5.3	TM		
34	TM	Cis-1,2-DCE	0.1908	0.1793	6.0	TM		
35	TM	2,2-Dichloropropane	0.1656	0.1357	18	TM		
36	TM	2-Methylpentane	0.0000	0.0192	0.00	TM		
37	TM	3-Methylpentane	0.0000	0.0659	0.00	TM		
38	TM*	Chloroform	0.2107	0.2063	2.1	TM*		
39	TM	Bromochloromethane	0.0998	0.0961	3.7	TM		
40	S	Dibromofluoromethane(S)	0.2624	0.2708	3.2	S		
		Average			5.6			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/24/20
Instrument: ZEUS
Cal. Date: 10/23/20
Data File: 1023Z32.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	1,1,1-TCA	0.1799	0.1734	3.6	TM	
42	TM	Cyclohexane	0.1922	0.1763	8.3	TM	
43	TM	1,1-Dichloropropene	0.1555	0.1472	5.3	TM	
44	TM	2,2,4-Trimethylpentane	0.3737	0.3418	8.5	TM	
45	S	1,2-DCA-D4(S)	0.2483	0.2497	0.54	S	
46	TM	Carbon Tetrachloride	0.1517	0.1427	6.0	TM	
47	TM	Tert Amyl Methyl Ether	0.2924	0.2807	4.0	TM	
48	TM	Methylcyclopentane	0.0000	0.0168	0.00	TM	
49	TM	1,2-DCA	0.1498	0.1379	7.9	TM	
50	TM	Benzene	0.5011	0.4918	1.8	TM	
51	TM	TCE	0.1588	0.1583	0.33	TM	
52	TM	2-Pentanone	0.0893	0.0806	9.7	TM	
53	TM*	1,2-Dichloropropane	0.1239	0.1207	2.6	TM*	
54	TM	Bromodichloromethane	0.1490	0.1413	5.2	TM	
55	TM	Methyl Cyclohexane	0.1977	0.1872	5.3	TM	
56	TM	Dibromomethane	0.1037	0.0959	7.5	TM	
57	TM	MIBK (methyl isobutyl ketone)	0.1061	0.1008	5.0	TM	
58	TM	1-Bromo-2-chloroethane	0.0239	0.0225	5.7	TM	
59	TM	2-Chloroethyl vinyl ether	0.0000	0.0001	0.00	TM	
60	TM	Cis-1,3-Dichloropropene	0.1886	0.1796	4.8	TM	
61	TM*	Toluene	0.5444	0.5271	3.2	TM*	
62	TM	Trans-1,3-Dichloropropene	0.1560	0.1459	6.4	TM	
63	TM	1,1,2-TCA	0.1096	0.1079	1.6	TM	
64	TM	2-Hexanone	0.0759	0.0699	7.8	TM	
65	I	Chlorobenzene-D5 (IS)	ISTD			I	
66	S	Toluene-D8(S)	1.260	1.307	3.7	S	
67	TM	1,2-EDB	0.1516	0.1510	0.38	TM	
68	TM	Tetrachloroethene	0.2199	0.2036	7.4	TM	
69	TML	1-Chlorohexane	0.2642	0.2228	16	TML	5.3
70	TM	1,1,1,2-Tetrachloroethane	0.1613	0.1581	2.0	TM	
71	TM	m&p-Xylene	0.6035	0.5886	2.5	TM	
72	TM	o-Xylene	0.6288	0.6036	4.0	TM	
73	TM	Styrene	0.5322	0.5295	0.50	TM	
74	S	4-Bromofluorobenzene(S)	0.4793	0.4819	0.54	S	
75	TM	1,3-Dichloropropane	0.2365	0.2326	1.6	TM	
76	TM	Dibromochloromethane	0.1592	0.1502	5.6	TM	
77	TM**	Chlorobenzene	0.4894	0.4895	0.01	TM**	
78	TM*	Ethylbenzene	0.7823	0.7580	3.1	TM*	
79	TM**	Bromoform	0.1190	0.1011	15	TM**	
80	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
		Average			4.6		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/24/20
Matrix: water Instrument: ZEUS
Cal. Date: 10/23/20
Data File: 1023Z32.D

		Compound	MEAN	CCRF	%D		%Drift	
81	TM	Isopropylbenzene	1.374	1.373	0.11	TM		
82	TM**	1,1,2,2-Tetrachloroethane	0.3093	0.2930	5.3	TM**		
83	TM	1,2,3-Trichloropropane	0.1022	0.1005	1.7	TM		
84	TM	t-1,4-Dichloro-2-Butene	0.0759	0.0640	16	TM		
85	TM	Bromobenzene	0.5923	0.5753	2.9	TM		
86	TM	n-Propylbenzene	1.605	1.597	0.45	TM		
87	TM	4-Ethyltoluene	1.390	1.397	0.49	TM		
88	TM	2-Chlorotoluene	0.9921	0.9473	4.5	TM		
89	TM	1,3,5-Trimethylbenzene	1.185	1.178	0.53	TM		
90	TM	4-Chlorotoluene	1.102	1.088	1.2	TM		
91	TM	Tert-Butylbenzene	1.053	1.055	0.26	TM		
92	TM	1,2,4-Trimethylbenzene	1.188	1.186	0.18	TM		
93	TM	Sec-Butylbenzene	1.566	1.562	0.28	TM		
94	TM	p-Isopropyltoluene	1.346	1.351	0.33	TM		
95	TM	Benzyl Chloride	0.5394	0.3963	27	TM		*NT
96	TM	1,3-DCB	0.7467	0.7424	0.59	TM		
97	TM	1,4-DCB	0.7523	0.7566	0.56	TM		
98	TM	n-Butylbenzene	1.200	1.161	3.2	TM		
99	TM	1,2-DCB	0.6990	0.7030	0.57	TM		
100	TML	Hexachloroethane	0.1956	0.1656	15	TML	20	
101	TM	1,2-Dibromo-3-chloropropane	0.0868	0.0771	11	TM		
102	TM	1,2,4-Trichlorobenzene	0.5187	0.4866	6.2	TM		
103	TM	Hexachlorobutadiene	0.2340	0.2027	13	TM		
104	TM	Naphthalene	1.205	1.194	0.97	TM		
105	TM	1,2,3-Trichlorobenzene	0.4610	0.4321	6.3	TM		
106								
107								
108								
109								
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								
120								
		Average			4.7			

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z32.D Vial: 27
Acq On : 24 Oct 20 00:00 Operator: LP,DG,CH
Sample : 201023A CCV 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:21 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2156062	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1625822	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	938089	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	583875	25.80	ppb	0.00
Spiked Amount 25.000			Recovery =	103.200%		
48) 1,2-DCA-D4(S)	4.72	65	538297	25.13	ppb	0.00
Spiked Amount 25.000			Recovery =	100.540%		
69) Toluene-D8(S)	6.38	98	2124155	25.93	ppb	0.00
Spiked Amount 25.000			Recovery =	103.720%		
77) 4-Bromofluorobenzene(S)	8.77	95	783517	25.13	ppb	0.00
Spiked Amount 25.000			Recovery =	100.536%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.16	87	31881	10.20	ppb	99
4) Freon 114	1.26	85	38363	10.23	ppb	89
5) Chloromethane	1.35	50	146312	8.95	ppb	98
6) Vinyl chloride	1.39	62	138047	9.65	ppb	98
9) Bromomethane	1.66	94	34178	13.91	ppb	92
10) Chloroethane	1.75	64	41704	15.12	ppb	93
11) Dichlorofluoromethane	1.95	67	222041	10.47	ppb	96
12) Trichlorofluoromethane	1.98	101	170621	10.41	ppb	98
16) Acrolein	2.39	55	108654	113.90	ppb	97
17) Acetone	2.54	43	149702	44.15	ppb	99
18) Freon-113	2.49	101	86012	9.79	ppb	98
19) 1,1-DCE	2.47	61	132478	9.46	ppb	97
21) Acetonitrile	2.77	40	44529	117.80	ppb	95
22) t-Butanol	3.07	59	59464	117.97	ppb	97
23) Methyl Acetate	2.85	43	74962	8.92	ppb	96
24) Iodomethane	2.59	142	73890	6.95	ppb	99
25) Acrylonitrile	3.13	52	36579	9.27	ppb	98
26) Methylene chloride	2.91	84	119272	10.29	ppb	96
27) Carbon disulfide	2.65	76	148032	9.34	ppb	99
28) Methyl t-butyl ether (MtBE	3.19	73	244962	9.70	ppb	99
29) Trans-1,2-DCE	3.16	61	131709	9.49	ppb	97
31) Diisopropyl Ether	3.63	45	289197	9.61	ppb	97
33) 1,1-DCA	3.53	63	172869	9.74	ppb	98
34) Vinyl Acetate	3.60	43	108973	7.92	ppb	97
35) Ethyl tert Butyl Ether	3.94	59	265637	9.60	ppb	97
36) MEK (2-Butanone)	4.06	43	224974	47.33	ppb	99
37) Cis-1,2-DCE	4.03	61	154630	9.40	ppb	94
38) 2,2-Dichloropropane	4.04	77	117009	8.19	ppb	99
41) Chloroform	4.31	83	177958	9.79	ppb	99
42) Bromochloromethane	4.23	49	82902	9.63	ppb	95
44) 1,1,1-TCA	4.47	97	149528	9.64	ppb	98
45) Cyclohexane	4.52	56	152066	9.17	ppb	99
46) 1,1-Dichloropropene	4.61	75	126980	9.47	ppb	98
47) 2,2,4-Trimethylpentane	4.88	57	294770	9.15	ppb	99
49) Carbon Tetrachloride	4.61	117	123031	9.40	ppb	100
50) Tert Amyl Methyl Ether	4.90	73	242116	9.60	ppb	98
52) 1,2-DCA	4.79	62	118961	9.21	ppb	94
53) Benzene	4.78	78	424169	9.82	ppb	98
54) TCE	5.33	130	136496	9.97	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z32.D Vial: 27
Acq On : 24 Oct 20 00:00 Operator: LP,DG,CH
Sample : 201023A CCV 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:21 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
55)	2-Pentanone	5.49	43	869138	112.91	ppb		98
56)	1,2-Dichloropropane	5.52	63	104067	9.74	ppb		100
57)	Bromodichloromethane	5.75	83	121891	9.48	ppb		99
58)	Methyl Cyclohexane	5.51	83	161464	9.47	ppb		98
59)	Dibromomethane	5.61	174	82675	9.25	ppb		86
60)	MIBK (methyl isobutyl ket	6.29	43	434593	47.50	ppb		99
61)	1-Bromo-2-chloroethane	6.02	144	19409	9.43	ppb		94
63)	Cis-1,3-Dichloropropene	6.14	75	154886	9.52	ppb		98
64)	Toluene	6.44	91	454579	9.68	ppb		99
65)	Trans-1,3-Dichloropropene	6.63	75	125851	9.36	ppb		98
66)	1,1,2-TCA	6.79	97	93064	9.84	ppb		99
67)	2-Hexanone	7.03	43	301620	46.09	ppb		100
70)	1,2-EDB	7.24	107	98206	9.96	ppb		98
71)	Tetrachloroethene	6.93	166	132395	9.26	ppb		97
72)	1-Chlorohexane	7.69	91	144921	9.47	ppb		98
73)	1,1,1,2-Tetrachloroethane	7.78	131	102831	9.80	ppb		100
74)	m&p-Xylene	7.92	91	765529	19.51	ppb		98
75)	o-Xylene	8.28	91	392542	9.60	ppb		96
76)	Styrene	8.29	104	344340	9.95	ppb		98
78)	1,3-Dichloropropane	6.94	76	151284	9.84	ppb		100
79)	Dibromochloromethane	7.14	129	97699	9.44	ppb		96
80)	Chlorobenzene	7.70	112	318332	10.00	ppb		98
81)	Ethylbenzene	7.81	91	492930	9.69	ppb		99
82)	Bromoform	8.45	173	65731	8.49	ppb		97
84)	Isopropylbenzene	8.64	105	515176	9.99	ppb		97
85)	1,1,2,2-Tetrachloroethane	8.90	83	109948	9.47	ppb		97
86)	1,2,3-Trichloropropane	8.94	110	37708	9.83	ppb		97
87)	t-1,4-Dichloro-2-Butene	8.96	53	24009	8.43	ppb		99
88)	Bromobenzene	8.91	77	215882	9.71	ppb		99
89)	n-Propylbenzene	9.03	91	599429	9.96	ppb		100
90)	4-Ethyltoluene	9.14	105	524057	10.05	ppb		98
91)	2-Chlorotoluene	9.10	91	355478	9.55	ppb		98
92)	1,3,5-Trimethylbenzene	9.20	105	442212	9.95	ppb		100
93)	4-Chlorotoluene	9.20	91	408288	9.88	ppb		99
94)	Tert-Butylbenzene	9.51	119	395989	10.03	ppb		95
95)	1,2,4-Trimethylbenzene	9.56	105	444940	9.98	ppb		99
96)	Sec-Butylbenzene	9.73	105	585952	9.97	ppb		98
97)	p-Isopropyltoluene	9.87	119	506887	10.03	ppb		99
98)	Benzyl Chloride	10.03	91	148700	7.35	ppb		99
99)	1,3-DCB	9.82	146	278557	9.94	ppb		100
100)	1,4-DCB	9.90	146	283891	10.06	ppb		99
101)	n-Butylbenzene	10.27	91	435811	9.68	ppb		100
102)	1,2-DCB	10.26	146	263792	10.06	ppb		100
103)	Hexachloroethane	10.52	201	62156	8.00	ppb	#	87
104)	1,2-Dibromo-3-chloropropan	11.02	157	28929	8.88	ppb		94
105)	1,2,4-Trichlorobenzene	11.84	180	182592	9.38	ppb		99
106)	Hexachlorobutadiene	12.03	225	76062	8.66	ppb		99
107)	Naphthalene	12.07	128	447904	9.90	ppb		99
108)	1,2,3-Trichlorobenzene	12.32	180	162121	9.37	ppb		99

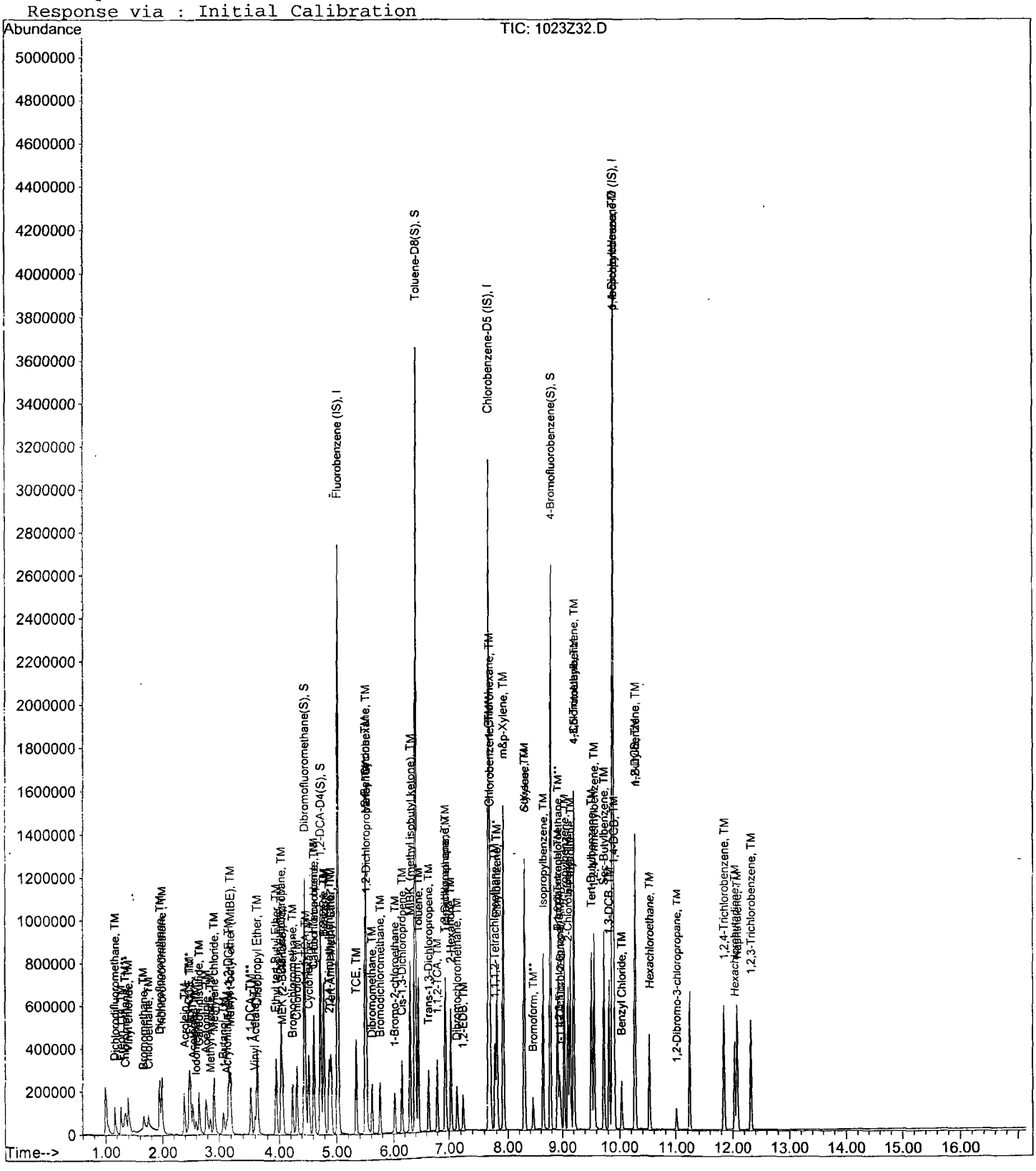
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z32.D Vial: 27
Acq On : 24 Oct 20 00:00 Operator: LP,DG,CH
Sample : 201023A CCV 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:21 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/24/20
Matrix: water Instrument: ZEUS
Initial Cal. Date: 10/23/20
Data File: 1023Z52.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.0362	0.0322	11	TM		
3	TM	Freon 114	0.0435	0.0389	11	TM		
4	TM**	Chloromethane	0.1895	0.1499	21	TM**		
5	TM*	Vinyl chloride	0.1659	0.1422	14	TM*		
6		Butane	0.0000	0.0003	0.00			
7	TML	Bromomethane	0.0357	0.0411	15	TML	45	
8	TMQ	Chloroethane	0.0524	0.0685	31	TMQ	134	*NT
9	TM	Dichlorofluoromethane	0.2459	0.2345	4.6	TM		
10	TM	Trichlorofluoromethane	0.1900	0.1800	5.3	TM		
11	TM	Pentane	0.0000	0.0020	0.00	TM		
12	TM	Acrolein	0.0111	0.0079	28	TM		
13	TM	Acetone	0.0393	0.0293	26	TM		
14	TM	Freon-113	0.1019	0.0862	15	TM		
15	TM*	1,1-DCE	0.1624	0.1409	13	TM*		
16	TM	2-Propanol	0.0000	0.0001	0.00	TM		
17	TM	Acetonitrile	0.0044	0.0037	16	TM		
18	TM	t-Butanol	0.0058	0.0038	34	TM		
19	TM	Methyl Acetate	0.0974	0.0725	26	TM		
20	TML	Iodomethane	0.1056	0.0862	18	TML	30	
21	TM	Acrylonitrile	0.0458	0.0372	19	TM		
22	TML	Methylene chloride	0.1591	0.1270	20	TML	6.0	
23	TM	Carbon disulfide	0.1838	0.1613	12	TM		
24	TM	Methyl t-butyl ether (MtBE)	0.2928	0.2453	16	TM		
25	TM	Trans-1,2-DCE	0.1609	0.1392	14	TM		
26	TM	Hexane	0.0000	0.0003	0.00	TM		
27	TM	Diisopropyl Ether	0.3491	0.2919	16	TM		
28	TM**	1,1-DCA	0.2058	0.1841	11	TM**		
29	TM	Vinyl Acetate	0.1596	0.0701	56	TM		*NT
30	TM	Ethyl tert Butyl Ether	0.3209	0.2627	18	TM		
31	TM	MEK (2-Butanone)	0.0551	0.0407	26	TM		
32	TM	Cis-1,2-DCE	0.1908	0.1632	14	TM		
33	TM	2,2-Dichloropropane	0.1656	0.1061	36	TM		
34	TM	2-Methylpentane	0.0000	0.0136	0.00	TM		
35	TM	3-Methylpentane	0.0000	0.0568	0.00	TM		
36	TM*	Chloroform	0.2107	0.1915	9.1	TM*		
37	TM	Bromochloromethane	0.0998	0.0885	11	TM		
38	S	Dibromofluoromethane(S)	0.2624	0.2583	1.6	S		
39	TM	1,1,1-TCA	0.1799	0.1510	16	TM		
40	TM	Cyclohexane	0.1922	0.1555	19	TM		
		Average			15.5			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/24/20
Matrix: water Instrument: ZEUS
Cal. Date: 10/23/20
Data File: 1023Z52.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	1,1-Dichloropropene	0.1555	0.1330	14	TM	
42	TM	2,2,4-Trimethylpentane	0.3737	0.2741	27	TM	
43	S	1,2-DCA-D4(S)	0.2483	0.2444	1.6	S	
44	TM	Carbon Tetrachloride	0.1517	0.1131	25	TM	
45	TM	Tert Amyl Methyl Ether	0.2924	0.2404	18	TM	
46	TM	Methylcyclopentane	0.0000	0.0146	0.00	TM	
47	TM	1,2-DCA	0.1498	0.1253	16	TM	
48	TM	Benzene	0.5011	0.4512	10.0	TM	
49	TM	TCE	0.1588	0.1318	17	TM	
50	TM	2-Pentanone	0.0893	0.0636	29	TM	
51	TM*	1,2-Dichloropropane	0.1239	0.1082	13	TM*	
52	TM	Bromodichloromethane	0.1490	0.1210	19	TM	
53	TM	Methyl Cyclohexane	0.1977	0.1634	17	TM	
54	TM	Dibromomethane	0.1037	0.0687	34	TM	
55	TM	MIBK (methyl isobutyl ketone)	0.1061	0.0810	24	TM	
56	TM	1-Bromo-2-chloroethane	0.0239	0.0173	28	TM	
57	TM	2-Chloroethyl vinyl ether	0.0000	0.0001	0.00	TM	
58	TM	Cis-1,3-Dichloropropene	0.1886	0.1515	20	TM	
59	TM*	Toluene	0.5444	0.4818	11	TM*	
60	TM	Trans-1,3-Dichloropropene	0.1560	0.1239	21	TM	
61	TM	1,1,2-TCA	0.1096	0.0959	13	TM	
62	TM	2-Hexanone	0.0759	0.0557	27	TM	
63	I	Chlorobenzene-D5 (IS)	ISTD			I	
64	S	Toluene-D8(S)	1.260	1.367	8.6	S	
65	TM	1,2-EDB	0.1516	0.1345	11	TM	
66	TM	Tetrachloroethene	0.2199	0.1516	31	TM	
67	TML	1-Chlorohexane	0.2642	0.2079	21	TML	11
68	TM	1,1,1,2-Tetrachloroethane	0.1613	0.1275	21	TM	
69	TM	m&p-Xylene	0.6035	0.5690	5.7	TM	
70	TM	o-Xylene	0.6288	0.5891	6.3	TM	
71	TM	Styrene	0.5322	0.4896	8.0	TM	
72	S	4-Bromofluorobenzene(S)	0.4793	0.4990	4.1	S	
73	TM	1,3-Dichloropropane	0.2365	0.2209	6.6	TM	
74	TM	Dibromochloromethane	0.1592	0.1185	26	TM	
75	TM**	Chlorobenzene	0.4894	0.4480	8.5	TM**	
76	TM*	Ethylbenzene	0.7823	0.7422	5.1	TM*	
77	TM**	Bromoform	0.1190	0.0658	45	TM**	
78	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
79	TM	Isopropylbenzene	1.374	1.345	2.1	TM	
80	TM**	1,1,2,2-Tetrachloroethane	0.3093	0.2637	15	TM**	
		Average			16.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/24/20
Instrument: ZEUS
Cal. Date: 10/23/20
Data File: 1023Z52.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,2,3-Trichloropropane	0.1022	0.0932	8.8	TM	
82	TM	t-1,4-Dichloro-2-Butene	0.0759	0.0553	27	TM	
83	TM	Bromobenzene	0.5923	0.5746	3.0	TM	
84	TM	n-Propylbenzene	1.605	1.632	1.7	TM	
85	TM	4-Ethyltoluene	1.390	1.380	0.69	TM	
86	TM	2-Chlorotoluene	0.9921	0.9508	4.2	TM	
87	TM	1,3,5-Trimethylbenzene	1.185	1.162	1.9	TM	
88	TM	4-Chlorotoluene	1.102	1.093	0.75	TM	
89	TM	Tert-Butylbenzene	1.053	0.9957	5.4	TM	
90	TM	1,2,4-Trimethylbenzene	1.188	1.160	2.4	TM	
91	TM	Sec-Butylbenzene	1.566	1.527	2.5	TM	
92	TM	p-Isopropyltoluene	1.346	1.306	3.0	TM	
93	TM	Benzyl Chloride	0.5394	0.2930	46	TM	
94	TM	1,3-DCB	0.7467	0.6490	13	TM	
95	TM	1,4-DCB	0.7523	0.6681	11	TM	
96	TM	n-Butylbenzene	1.200	1.140	5.0	TM	
97	TM	1,2-DCB	0.6990	0.6055	13	TM	
98	TML	Hexachloroethane	0.1956	0.1142	42	TML	41
99	TM	1,2-Dibromo-3-chloropropane	0.0868	0.0537	38	TM	
100	TM	1,2,4-Trichlorobenzene	0.5187	0.3488	33	TM	
101	TM	Hexachlorobutadiene	0.2340	0.1326	43	TM	
102	TM	Naphthalene	1.205	1.010	16	TM	
103	TM	1,2,3-Trichlorobenzene	0.4610	0.3145	32	TM	
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			15.4		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z52.D Vial: 47
Acq On : 24 Oct 20 07:41 Operator: LP,DG,CH
Sample : Ending CCV 10ug/L 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:14 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	5.02	96	1846547	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1311033	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	722561	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	4.44	111	477030	24.61	ppb		0.00
Spiked Amount 25.000			Recovery =	98.448%			
48) 1,2-DCA-D4(S)	4.72	65	451348	24.61	ppb		0.00
Spiked Amount 25.000			Recovery =	98.428%			
69) Toluene-D8(S)	6.38	98	1792726	27.14	ppb		0.00
Spiked Amount 25.000			Recovery =	108.556%			
77) 4-Bromofluorobenzene(S)	8.77	95	654210	26.03	ppb		0.00
Spiked Amount 25.000			Recovery =	104.100%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.16	87	23792	8.89	ppb		87
4) Freon 114	1.26	85	28728	8.95	ppb	#	81
5) Chloromethane	1.34	50	110702	7.91	ppb		98
6) Vinyl chloride	1.39	62	105003	8.57	ppb		100
9) Bromomethane	1.66	94	30325	14.48	ppb		95
10) Chloroethane	1.75	64	50586	23.44	ppb		91
11) Dichlorofluoromethane	1.95	67	173210	9.54	ppb		99
12) Trichlorofluoromethane	1.99	101	132921	9.47	ppb		99
16) Acrolein	2.38	55	73118	89.50	ppb		94
17) Acetone	2.53	43	108085	37.22	ppb		96
18) Freon-113	2.50	101	63649	8.46	ppb		87
19) 1,1-DCE	2.47	61	104087	8.68	ppb		97
21) Acetonitrile	2.77	40	34183	105.58	ppb		99
22) t-Butanol	3.07	59	35352	81.89	ppb		94
23) Methyl Acetate	2.84	43	53526	7.44	ppb		99
24) Iodomethane	2.60	142	63641	6.98	ppb		98
25) Acrylonitrile	3.13	52	27470	8.13	ppb		98
26) Methylene chloride	2.91	84	93804	9.40	ppb		96
27) Carbon disulfide	2.65	76	119104	8.77	ppb		98
28) Methyl t-butyl ether (MtBE	3.19	73	181194	8.38	ppb		99
29) Trans-1,2-DCE	3.16	61	102803	8.65	ppb		97
31) Diisopropyl Ether	3.63	45	215637	8.36	ppb		99
33) 1,1-DCA	3.53	63	135994	8.94	ppb		98
34) Vinyl Acetate	3.59	43	51766	4.39	ppb		96
35) Ethyl tert Butyl Ether	3.94	59	194017	8.19	ppb		97
36) MEK (2-Butanone)	4.06	43	150292	36.92	ppb		97
37) Cis-1,2-DCE	4.03	61	120518	8.55	ppb		97
38) 2,2-Dichloropropane	4.03	77	78356	6.41	ppb		100
41) Chloroform	4.31	83	141465	9.09	ppb		99
42) Bromochloromethane	4.23	49	65401	8.87	ppb		88
44) 1,1,1-TCA	4.47	97	111538	8.40	ppb		97
45) Cyclohexane	4.52	56	114818	8.09	ppb		98
46) 1,1-Dichloropropene	4.61	75	98231	8.55	ppb		99
47) 2,2,4-Trimethylpentane	4.87	57	202446	7.33	ppb		99
49) Carbon Tetrachloride	4.61	117	83550	7.46	ppb		99
50) Tert Amyl Methyl Ether	4.90	73	177590	8.22	ppb		97
52) 1,2-DCA	4.79	62	92583	8.37	ppb		100
53) Benzene	4.78	78	333242	9.00	ppb		98
54) TCE	5.33	130	97361	8.30	ppb		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z52.D Vial: 47
Acq On : 24 Oct 20 07:41 Operator: LP,DG,CH
Sample : Ending CCV 10ug/L 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:14 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
55)	2-Pentanone	5.49	43	586832	89.02	ppb		100
56)	1,2-Dichloropropane	5.52	63	79893	8.73	ppb	#	97
57)	Bromodichloromethane	5.75	83	89393	8.12	ppb		98
58)	Methyl Cyclohexane	5.51	83	120678	8.27	ppb		92
59)	Dibromomethane	5.61	174	50772	6.63	ppb	#	75
60)	MIBK (methyl isobutyl ket	6.29	43	299150	38.18	ppb		100
61)	1-Bromo-2-chloroethane	6.01	144	12746	7.23	ppb		99
63)	Cis-1,3-Dichloropropene	6.14	75	111911	8.04	ppb		96
64)	Toluene	6.44	91	355899	8.85	ppb		99
65)	Trans-1,3-Dichloropropene	6.63	75	91525	7.95	ppb		96
66)	1,1,2-TCA	6.79	97	70809	8.75	ppb		99
67)	2-Hexanone	7.03	43	205701	36.70	ppb		99
70)	1,2-EDB	7.24	107	70532	8.87	ppb	#	96
71)	Tetrachloroethene	6.93	166	79478	6.89	ppb		89
72)	1-Chlorohexane	7.69	91	109041	8.85	ppb		96
73)	1,1,1,2-Tetrachloroethane	7.78	131	66849	7.90	ppb		96
74)	m&p-Xylene	7.92	91	596747	18.86	ppb		100
75)	o-Xylene	8.28	91	308945	9.37	ppb		97
76)	Styrene	8.29	104	256757	9.20	ppb		100
78)	1,3-Dichloropropane	6.94	76	115820	9.34	ppb		99
79)	Dibromochloromethane	7.14	129	62160	7.45	ppb		94
80)	Chlorobenzene	7.70	112	234956	9.15	ppb		98
81)	Ethylbenzene	7.81	91	389240	9.49	ppb		98
82)	Bromoform	8.45	173	34493	5.53	ppb		93
84)	Isopropylbenzene	8.64	105	388883	9.79	ppb		97
85)	1,1,2,2-Tetrachloroethane	8.90	83	76222	8.53	ppb	#	95
86)	1,2,3-Trichloropropane	8.94	110	26945	9.12	ppb		97
87)	t-1,4-Dichloro-2-Butene	8.96	53	15969	7.28	ppb		99
88)	Bromobenzene	8.91	77	166063	9.70	ppb		83
89)	n-Propylbenzene	9.03	91	471737	10.17	ppb		94
90)	4-Ethyltoluene	9.14	105	398927	9.93	ppb		98
91)	2-Chlorotoluene	9.10	91	274808	9.58	ppb		99
92)	1,3,5-Trimethylbenzene	9.20	105	335873	9.81	ppb		98
93)	4-Chlorotoluene	9.20	91	316030	9.92	ppb		93
94)	Tert-Butylbenzene	9.52	119	287792	9.46	ppb		98
95)	1,2,4-Trimethylbenzene	9.56	105	335197	9.76	ppb		98
96)	Sec-Butylbenzene	9.73	105	441244	9.75	ppb		94
97)	p-Isopropyltoluene	9.87	119	377475	9.70	ppb		98
98)	Benzyl Chloride	10.04	91	84671	5.43	ppb		97
99)	1,3-DCB	9.81	146	187578	8.69	ppb		96
100)	1,4-DCB	9.90	146	193092	8.88	ppb		97
101)	n-Butylbenzene	10.27	91	329487	9.50	ppb		100
102)	1,2-DCB	10.26	146	175002	8.66	ppb		98
103)	Hexachloroethane	10.52	201	33011	5.92	ppb	#	68
104)	1,2-Dibromo-3-chloropropan	11.02	157	15532	6.19	ppb		88
105)	1,2,4-Trichlorobenzene	11.84	180	100809	6.72	ppb		98
106)	Hexachlorobutadiene	12.04	225	38330	5.67	ppb		95
107)	Naphthalene	12.08	128	291798	8.38	ppb		99
108)	1,2,3-Trichlorobenzene	12.32	180	90896	6.82	ppb		91

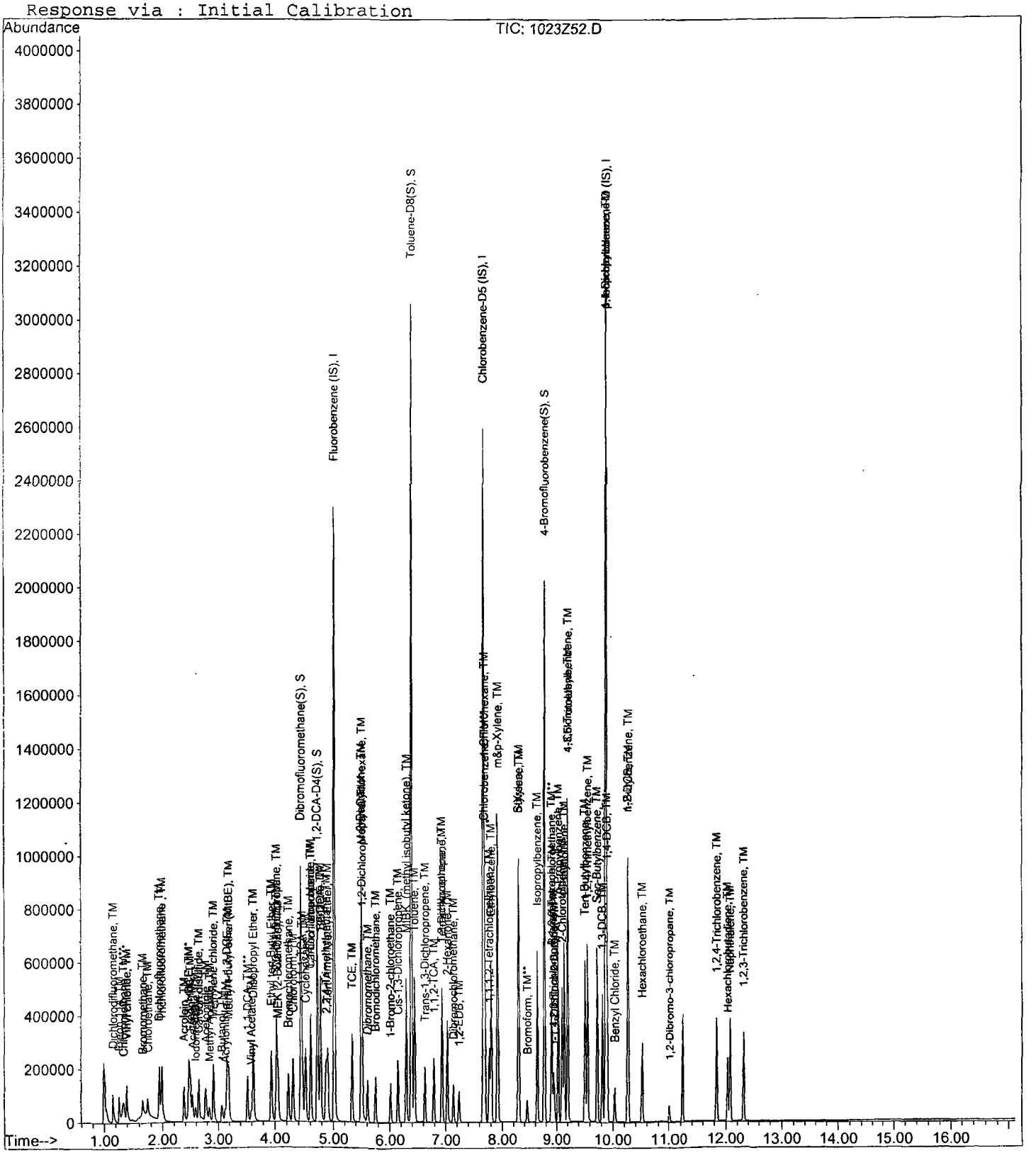
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z52.D Vial: 47
Acq On : 24 Oct 20 07:41 Operator: LP,DG,CH
Sample : Ending CCV 10ug/L 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:14 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z46.D Vial: 41
Acq On : 24 Oct 20 05:23 Operator: LP,DG,CH
Sample : BA20485W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 13:21 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	1799072	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1327153	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	697091	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	486995	25.79	ppb	0.00
Spiked Amount 25.000			Recovery =	103.160%		
48) 1,2-DCA-D4(S)	4.72	65	452461	25.32	ppb	0.00
Spiked Amount 25.000			Recovery =	101.276%		
69) Toluene-D8(S)	6.38	98	1794967	26.84	ppb	0.00
Spiked Amount 25.000			Recovery =	107.372%		
77) 4-Bromofluorobenzene(S)	8.77	95	664698	26.12	ppb	0.00
Spiked Amount 25.000			Recovery =	104.484%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

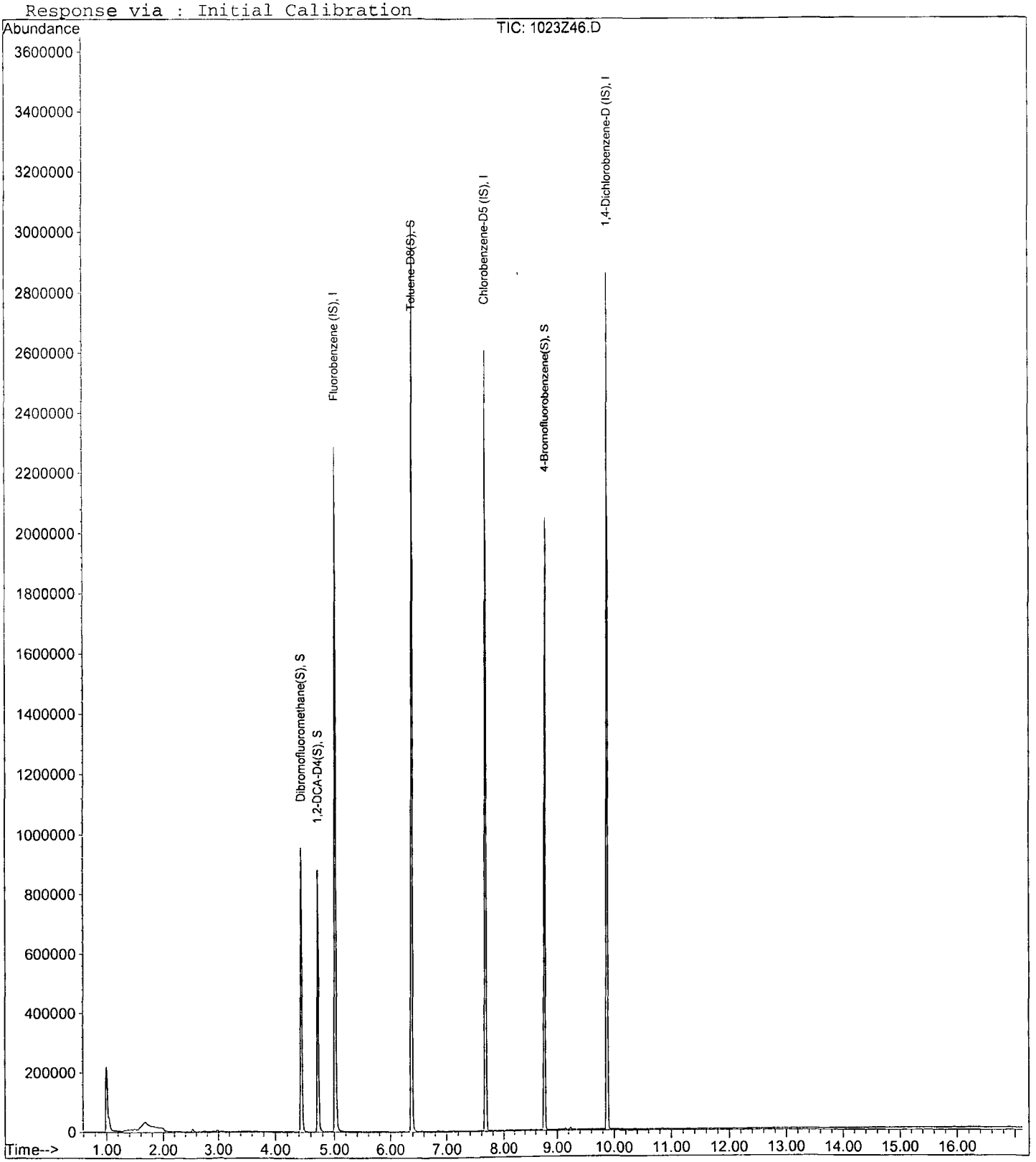
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z46.D
Acq On : 24 Oct 20 05:23
Sample : BA20485W01
Misc :

Vial: 41
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 13:21 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z47.D Vial: 42
Acq On : 24 Oct 20 05:46 Operator: LP,DG,CH
Sample : BA20486W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 13:22 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	1781497	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1303386	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	683330	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	478241	25.58	ppb	0.00
Spiked Amount 25.000			Recovery =	102.304%		
48) 1,2-DCA-D4(S)	4.72	65	442284	24.99	ppb	0.00
Spiked Amount 25.000			Recovery =	99.972%		
69) Toluene-D8(S)	6.38	98	1759677	26.79	ppb	0.00
Spiked Amount 25.000			Recovery =	107.180%		
77) 4-Bromofluorobenzene(S)	8.77	95	649839	26.00	ppb	0.00
Spiked Amount 25.000			Recovery =	104.012%		

Target Compounds Qvalue

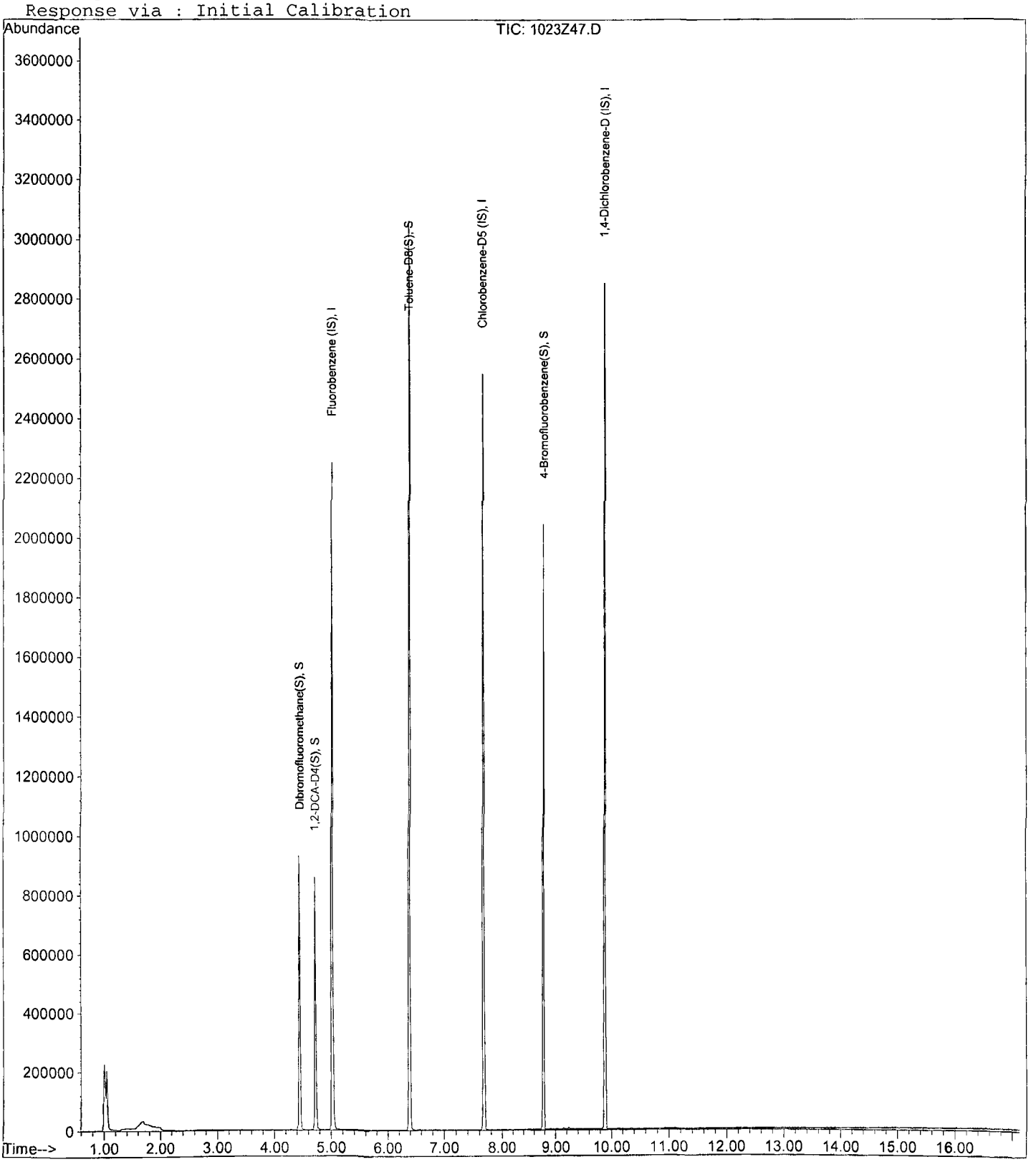
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z47.D Vial: 42
Acq On : 24 Oct 20 05:46 Operator: LP,DG,CH
Sample : BA20486W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 13:22 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z38.D
Acq On : 24 Oct 20 02:18
Sample : 201023A BLK
Misc :

Vial: 33
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 13:10 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2010663	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1515461	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	869793	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	556307	26.36	ppb	0.00
Spiked Amount 25.000			Recovery = 105.440%			
48) 1,2-DCA-D4(S)	4.72	65	505704	25.32	ppb	0.00
Spiked Amount 25.000			Recovery = 101.280%			
69) Toluene-D8(S)	6.38	98	1985688	26.01	ppb	0.00
Spiked Amount 25.000			Recovery = 104.020%			
77) 4-Bromofluorobenzene(S)	8.77	95	749243	25.79	ppb	0.00
Spiked Amount 25.000			Recovery = 103.140%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

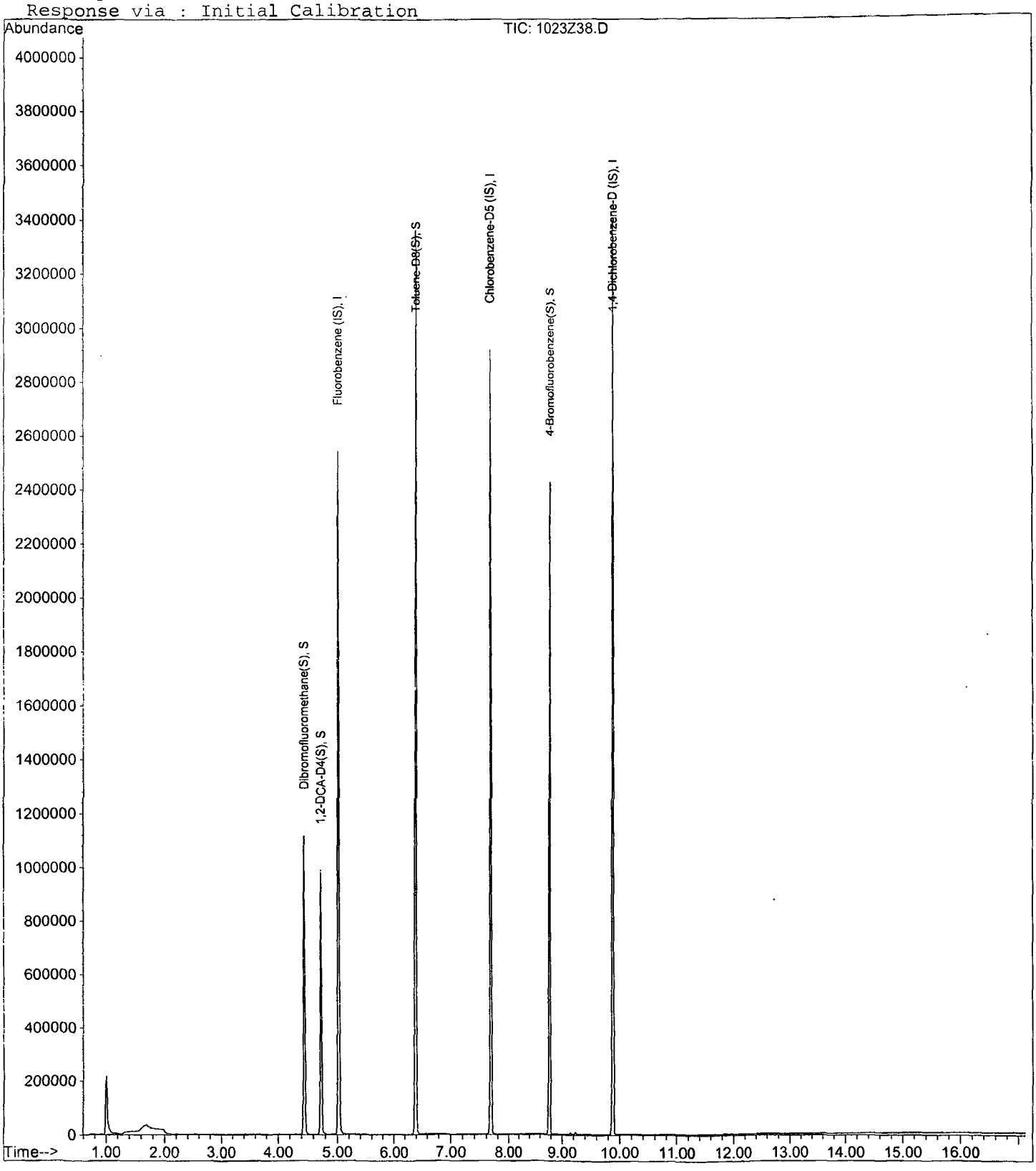
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z38.D
Acq On : 24 Oct 20 02:18
Sample : 201023A BLK
Misc :

Vial: 33
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 13:10 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z33.D Vial: 28
Acq On : 24 Oct 20 00:23 Operator: LP,DG,CH
Sample : 201023A LCS 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 11:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2146753	25.0000	ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1614288	25.0000	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	938690	25.0000	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	4.44	111	582160	25.8362	ppb	0.00
Spiked Amount 25.000			Recovery	= 103.344%		
48) 1,2-DCA-D4(S)	4.72	65	538219	25.2398	ppb	0.00
Spiked Amount 25.000			Recovery	= 100.960%		
69) Toluene-D8(S)	6.39	98	2128215	26.1653	ppb	0.00
Spiked Amount 25.000			Recovery	= 104.660%		
77) 4-Bromofluorobenzene(S)	8.77	95	775654	25.0599	ppb	0.00
Spiked Amount 25.000			Recovery	= 100.240%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.16	87	29302	9.4140	ppb	100
4) Freon 114	1.26	85	33961	9.0976	ppb	91
5) Chloromethane	1.35	50	139463	8.5724	ppb	99
6) Vinyl chloride	1.39	62	128046	8.9882	ppb	96
9) Bromomethane	1.66	94	32969	13.4132	ppb	99
10) Chloroethane	1.75	64	39733	14.2713	ppb	92
11) Dichlorofluoromethane	1.94	67	211383	10.0102	ppb	96
12) Trichlorofluoromethane	1.99	101	155036	9.5012	ppb	100
16) Acrolein	2.39	55	109431	115.2153	ppb	99
17) Acetone	2.54	43	149490	44.2793	ppb	100
18) Freon-113	2.49	101	82122	9.3879	ppb	93
19) 1,1-DCE	2.47	61	125146	8.9754	ppb	96
21) Acetonitrile	2.77	40	45269	120.2737	ppb	96
22) t-Butanol	3.07	59	60680	120.9042	ppb	99
23) Methyl Acetate	2.85	43	72633	8.6816	ppb	94
24) Iodomethane	2.60	142	82104	7.6180	ppb	98
25) Acrylonitrile	3.13	52	35143	8.9410	ppb	93
26) Methylene chloride	2.91	84	115550	9.9968	ppb	95
27) Carbon disulfide	2.65	76	137280	8.6983	ppb	100
28) Methyl t-butyl ether (MtBE	3.19	73	238448	9.4844	ppb	99
29) Trans-1,2-DCE	3.16	61	125070	9.0500	ppb	98
31) Diisopropyl Ether	3.63	45	282279	9.4177	ppb	97
33) 1,1-DCA	3.53	63	163364	9.2426	ppb	99
34) Vinyl Acetate	3.60	43	132491	9.6673	ppb	100
35) Ethyl tert Butyl Ether	3.94	59	256551	9.3113	ppb	97
36) MEK (2-Butanone)	4.06	43	220077	46.4977	ppb	100
37) Cis-1,2-DCE	4.03	61	147962	9.0313	ppb	97
38) 2,2-Dichloropropane	4.04	77	108281	7.6160	ppb	100
41) Chloroform	4.31	83	169489	9.3662	ppb	100
42) Bromochloromethane	4.23	49	81033	9.4534	ppb	100
44) 1,1,1-TCA	4.47	97	140414	9.0905	ppb	97
45) Cyclohexane	4.52	56	138921	8.4177	ppb	100
46) 1,1-Dichloropropene	4.61	75	121418	9.0944	ppb	96
47) 2,2,4-Trimethylpentane	4.87	57	272808	8.5005	ppb	100
49) Carbon Tetrachloride	4.61	117	113237	8.6927	ppb	100
50) Tert Amyl Methyl Ether	4.90	73	236647	9.4240	ppb	100
52) 1,2-DCA	4.79	62	114996	8.9420	ppb	97
53) Benzene	4.78	78	404859	9.4088	ppb	98
54) TCE	5.33	130	124046	9.0972	ppb	98

(#) = qualifier out of range (m) = manual integration

Data File : M:\ZEUS\DATA\201023\1023Z33.D Vial: 28
Acq On : 24 Oct 20 00:23 Operator: LP,DG,CH
Sample : 201023A LCS 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 11:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
55)	2-Pentanone	5.49	43	866246	113.0236	ppb		98
56)	1,2-Dichloropropane	5.52	63	98004	9.2145	ppb		99
57)	Bromodichloromethane	5.75	83	116372	9.0946	ppb		97
58)	Methyl Cyclohexane	5.51	83	149445	8.8040	ppb		97
59)	Dibromomethane	5.61	174	79583	8.9411	ppb		88
60)	MIBK (methyl isobutyl ket	6.29	43	424949	46.6464	ppb		99
61)	1-Bromo-2-chloroethane	6.02	144	18808	9.1741	ppb		98
63)	Cis-1,3-Dichloropropene	6.14	75	145532	8.9883	ppb		99
64)	Toluene	6.44	91	427707	9.1500	ppb		99
65)	Trans-1,3-Dichloropropene	6.63	75	122879	9.1751	ppb		97
66)	1,1,2-TCA	6.79	97	90863	9.6534	ppb		99
67)	2-Hexanone	7.03	43	295081	45.2869	ppb		98
70)	1,2-EDB	7.24	107	96913	9.9009	ppb		95
71)	Tetrachloroethene	6.93	166	122490	8.6271	ppb		97
72)	1-Chlorohexane	7.69	91	135485	8.9325	ppb		98
73)	1,1,1,2-Tetrachloroethane	7.78	131	99076	9.5142	ppb		96
74)	m&p-Xylene	7.92	91	725299	18.6135	ppb		99
75)	o-Xylene	8.28	91	376555	9.2745	ppb		97
76)	Styrene	8.29	104	327636	9.5347	ppb		98
78)	1,3-Dichloropropane	6.94	76	144813	9.4828	ppb		100
79)	Dibromochloromethane	7.14	129	92978	9.0458	ppb		98
80)	Chlorobenzene	7.70	112	301598	9.5432	ppb		99
81)	Ethylbenzene	7.81	91	471622	9.3361	ppb		99
82)	Bromoform	8.45	173	63292	8.2348	ppb		95
84)	Isopropylbenzene	8.64	105	482333	9.3461	ppb		99
85)	1,1,2,2-Tetrachloroethane	8.90	83	110723	9.5328	ppb		96
86)	1,2,3-Trichloropropane	8.94	110	36471	9.5002	ppb		93
87)	t-1,4-Dichloro-2-Butene	8.96	53	22932	8.0442	ppb		99
88)	Bromobenzene	8.91	77	207097	9.3125	ppb		97
89)	n-Propylbenzene	9.03	91	561849	9.3252	ppb		99
90)	4-Ethyltoluene	9.14	105	496501	9.5146	ppb		99
91)	2-Chlorotoluene	9.10	91	375017	10.0668	ppb		98
92)	1,3,5-Trimethylbenzene	9.20	105	422215	9.4909	ppb		100
93)	4-Chlorotoluene	9.20	91	386104	9.3334	ppb		98
94)	Tert-Butylbenzene	9.51	119	374771	9.4832	ppb		94
95)	1,2,4-Trimethylbenzene	9.56	105	420126	9.4197	ppb		98
96)	Sec-Butylbenzene	9.73	105	552738	9.4010	ppb		100
97)	p-Isopropyltoluene	9.87	119	476821	9.4321	ppb		98
98)	Benzyl Chloride	10.04	91	147526	7.2841	ppb		100
99)	1,3-DCB	9.81	146	266587	9.5080	ppb		100
100)	1,4-DCB	9.90	146	271668	9.6171	ppb		99
101)	n-Butylbenzene	10.27	91	405132	8.9892	ppb		99
102)	1,2-DCB	10.26	146	251618	9.5866	ppb		97
103)	Hexachloroethane	10.52	201	60797	7.8524	ppb	#	85
104)	1,2-Dibromo-3-chloropropan	11.02	157	28158	8.6378	ppb		95
105)	1,2,4-Trichlorobenzene	11.84	180	172917	8.8791	ppb		99
106)	Hexachlorobutadiene	12.03	225	71205	8.1052	ppb		94
107)	Naphthalene	12.07	128	433589	9.5807	ppb		100
108)	1,2,3-Trichlorobenzene	12.32	180	157320	9.0891	ppb		92

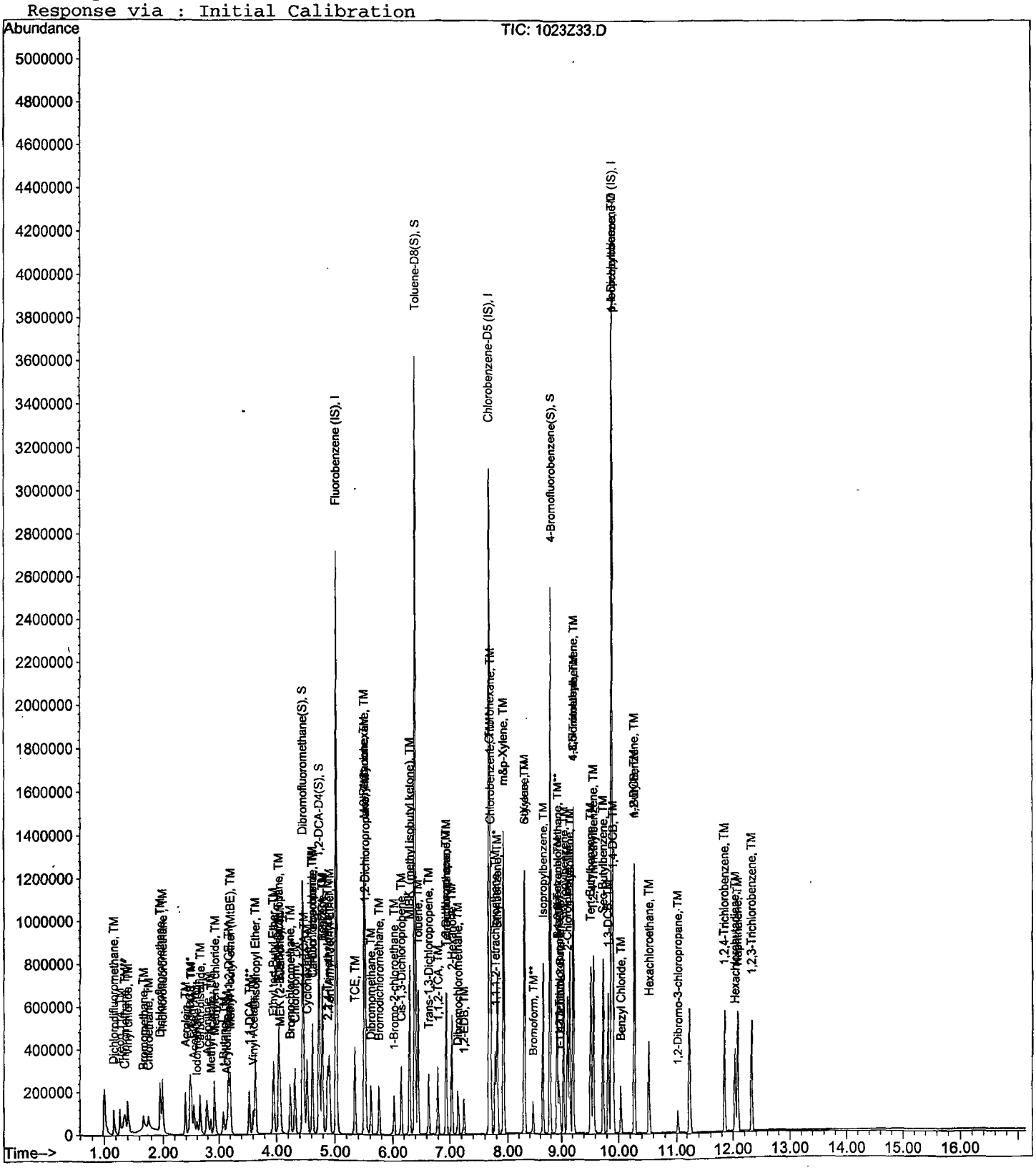
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z33.D Vial: 28
Acq On : 24 Oct 20 00:23 Operator: LP,DG,CH
Sample : 201023A LCS 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 11:13 2020 Quant Results File: Z1023W.RES

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z34.D Vial: 29
Acq On : 24 Oct 20 00:46 Operator: LP,DG,CH
Sample : 201023A LCSD 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 11:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2159388	25.0000 ppb	0.00
68) Chlorobenzene-D5 (IS)	7.67	117	1623517	25.0000 ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	9.88	152	942459	25.0000 ppb	0.00
System Monitoring Compounds					
43) Dibromofluoromethane(S)	4.44	111	582621	25.7054 ppb	0.00
Spiked Amount 25.000			Recovery	= 102.820%	
48) 1,2-DCA-D4(S)	4.72	65	539301	25.1426 ppb	0.00
Spiked Amount 25.000			Recovery	= 100.572%	
69) Toluene-D8(S)	6.39	98	2118252	25.8948 ppb	0.00
Spiked Amount 25.000			Recovery	= 103.580%	
77) 4-Bromofluorobenzene(S)	8.77	95	781873	25.1173 ppb	0.00
Spiked Amount 25.000			Recovery	= 100.468%	
Target Compounds					Qvalue
3) Dichlorodifluoromethane	1.16	87	28871	9.2213 ppb	98
4) Freon 114	1.26	85	28648	7.6294 ppb	97
5) Chloromethane	1.35	50	137806	8.4210 ppb	100
6) Vinyl chloride	1.39	62	134438	9.3817 ppb	97
9) Bromomethane	1.66	94	32419	13.0686 ppb	100
10) Chloroethane	1.75	64	45015	16.6531 ppb	89
11) Dichlorofluoromethane	1.95	67	209683	9.8716 ppb	95
12) Trichlorofluoromethane	1.99	101	168197	10.2474 ppb	99
16) Acrolein	2.39	55	101332	106.0640 ppb	100
17) Acetone	2.54	43	116310	34.2497 ppb	99
18) Freon-113	2.49	101	74709	8.4905 ppb	96
19) 1,1-DCE	2.47	61	124871	8.9032 ppb	94
21) Acetonitrile	2.77	40	42513	112.2905 ppb	98
22) t-Butanol	3.07	59	56608	112.1308 ppb	95
23) Methyl Acetate	2.85	43	72562	8.6224 ppb	99
24) Iodomethane	2.59	142	87486	7.9995 ppb	99
25) Acrylonitrile	3.13	52	35107	8.8796 ppb	95
26) Methylene chloride	2.91	84	116969	10.0642 ppb	99
27) Carbon disulfide	2.65	76	137728	8.6757 ppb	100
28) Methyl t-butyl ether (MtBE	3.19	73	232535	9.1951 ppb	97
29) Trans-1,2-DCE	3.16	61	124335	8.9442 ppb	98
31) Diisopropyl Ether	3.63	45	274375	9.1004 ppb	98
33) 1,1-DCA	3.53	63	162785	9.1560 ppb	98
34) Vinyl Acetate	3.60	43	110841	8.0403 ppb	98
35) Ethyl tert Butyl Ether	3.94	59	252302	9.1035 ppb	98
36) MEK (2-Butanone)	4.06	43	167777	35.2404 ppb	96
37) Cis-1,2-DCE	4.03	61	146181	8.8704 ppb	96
38) 2,2-Dichloropropane	4.03	77	111854	7.8213 ppb	97
41) Chloroform	4.31	83	170316	9.3568 ppb	96
42) Bromochloromethane	4.23	49	78179	9.0671 ppb	96
44) 1,1,1-TCA	4.47	97	144970	9.3306 ppb	96
45) Cyclohexane	4.52	56	132677	7.9923 ppb	98
46) 1,1-Dichloropropene	4.61	75	123791	9.2178 ppb	98
47) 2,2,4-Trimethylpentane	4.87	57	244594	7.5768 ppb	99
49) Carbon Tetrachloride	4.61	117	116000	8.8527 ppb	97
50) Tert Amyl Methyl Ether	4.90	73	230843	9.1391 ppb	98
52) 1,2-DCA	4.79	62	114042	8.8159 ppb	97
53) Benzene	4.78	78	399448	9.2287 ppb	99
54) TCE	5.33	130	130295	9.4996 ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z34.D Vial: 29
Acq On : 24 Oct 20 00:46 Operator: LP,DG,CH
Sample : 201023A LCSD 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 11:13 2020 Quant Results File: Z1023W.RES

Quant Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
55)	2-Pentanone	5.49	43	824731	106.9773 ppb		98
56)	1,2-Dichloropropane	5.52	63	96846	9.0523 ppb		99
57)	Bromodichloromethane	5.75	83	114805	8.9197 ppb		100
58)	Methyl Cyclohexane	5.51	83	137878	8.0751 ppb		95
59)	Dibromomethane	5.61	174	77964	8.7080 ppb		90
60)	MIBK (methyl isobutyl ket	6.29	43	324655	35.4287 ppb		99
61)	1-Bromo-2-chloroethane	6.01	144	18132	8.7926 ppb		94
63)	Cis-1,3-Dichloropropene	6.14	75	145453	8.9309 ppb		99
64)	Toluene	6.44	91	430005	9.1454 ppb		96
65)	Trans-1,3-Dichloropropene	6.63	75	120380	8.9359 ppb		94
66)	1,1,2-TCA	6.79	97	88804	9.3794 ppb		99
67)	2-Hexanone	7.03	43	226150	34.5048 ppb		99
70)	1,2-EDB	7.24	107	93196	9.4671 ppb		95
71)	Tetrachloroethene	6.93	166	125202	8.7680 ppb		98
72)	1-Chlorohexane	7.69	91	138966	9.1036 ppb		98
73)	1,1,1,2-Tetrachloroethane	7.78	131	96025	9.1688 ppb		99
74)	m&p-Xylene	7.92	91	732803	18.6992 ppb		98
75)	o-Xylene	8.28	91	376957	9.2316 ppb		97
76)	Styrene	8.29	104	325355	9.4145 ppb		98
78)	1,3-Dichloropropane	6.94	76	144282	9.3943 ppb		100
79)	Dibromochloromethane	7.14	129	91752	8.8757 ppb		97
80)	Chlorobenzene	7.70	112	296823	9.3387 ppb		99
81)	Ethylbenzene	7.81	91	475456	9.3585 ppb		99
82)	Bromoform	8.45	173	61654	7.9761 ppb		96
84)	Isopropylbenzene	8.64	105	496664	9.5853 ppb		98
85)	1,1,2,2-Tetrachloroethane	8.90	83	105592	9.0547 ppb		97
86)	1,2,3-Trichloropropane	8.94	110	36856	9.5621 ppb		99
87)	t-1,4-Dichloro-2-Butene	8.96	53	22509	7.8642 ppb		93
88)	Bromobenzene	8.91	77	205225	9.1914 ppb		98
89)	n-Propylbenzene	9.03	91	576390	9.5283 ppb		99
90)	4-Ethyltoluene	9.14	105	502081	9.5830 ppb		100
91)	2-Chlorotoluene	9.10	91	341178	9.1218 ppb		98
92)	1,3,5-Trimethylbenzene	9.20	105	425093	9.5174 ppb		99
93)	4-Chlorotoluene	9.20	91	385222	9.2748 ppb		100
94)	Tert-Butylbenzene	9.51	119	383374	9.6621 ppb		97
95)	1,2,4-Trimethylbenzene	9.56	105	422391	9.4326 ppb		99
96)	Sec-Butylbenzene	9.73	105	569425	9.6461 ppb		100
97)	p-Isopropyltoluene	9.87	119	489107	9.6364 ppb		98
98)	Benzyl Chloride	10.03	91	142591	7.0123 ppb		96
99)	1,3-DCB	9.82	146	265866	9.4444 ppb		99
100)	1,4-DCB	9.90	146	268141	9.4543 ppb		97
101)	n-Butylbenzene	10.27	91	416319	9.2004 ppb		99
102)	1,2-DCB	10.26	146	247604	9.3959 ppb		99
103)	Hexachloroethane	10.52	201	59347	7.6700 ppb	#	82
104)	1,2-Dibromo-3-chloropropan	11.02	157	27435	8.3823 ppb		93
105)	1,2,4-Trichlorobenzene	11.84	180	169020	8.6443 ppb		100
106)	Hexachlorobutadiene	12.03	225	71534	8.1101 ppb		100
107)	Naphthalene	12.07	128	425415	9.3625 ppb		100
108)	1,2,3-Trichlorobenzene	12.32	180	151558	8.7212 ppb		99

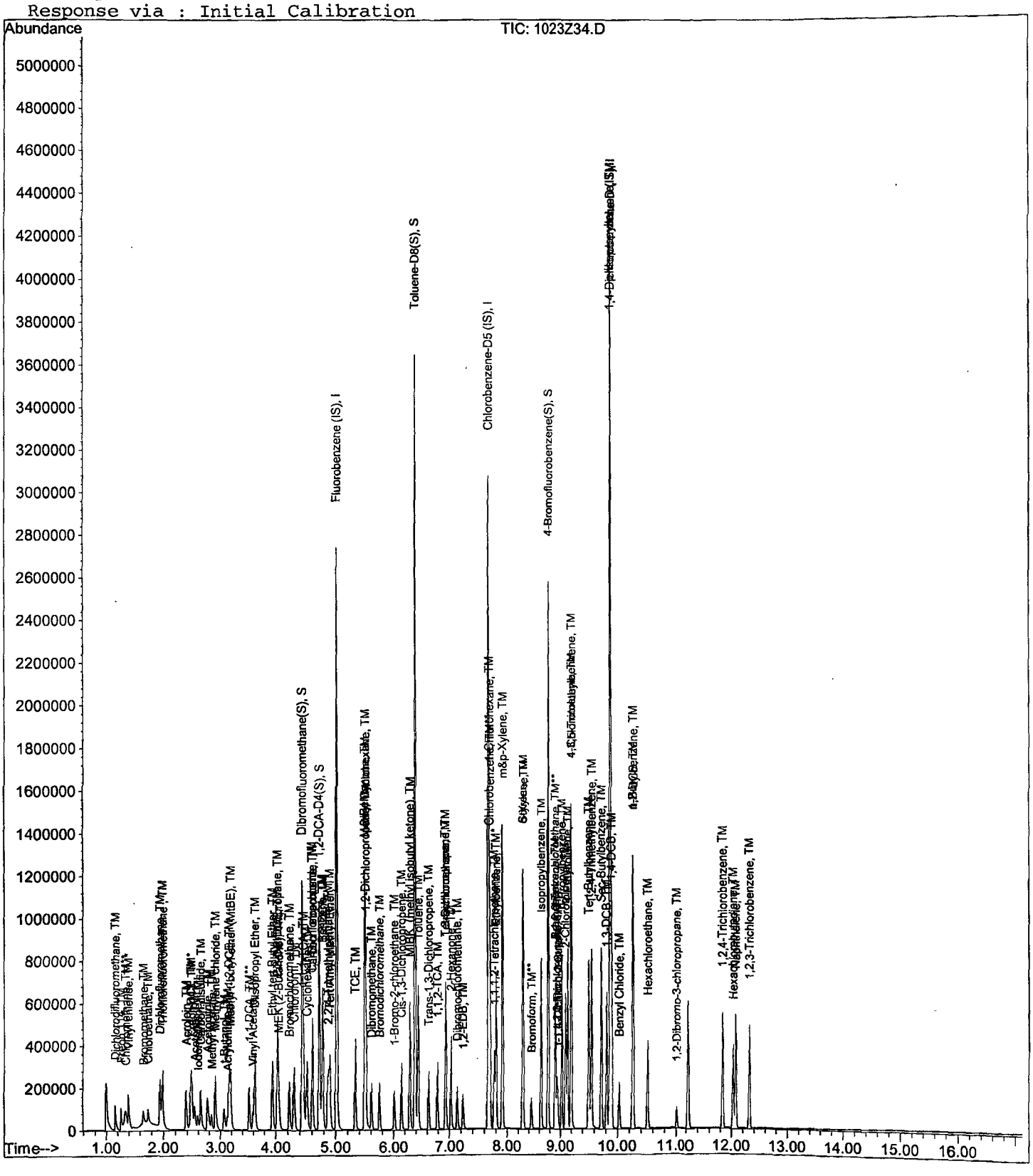
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z34.D Vial: 29
Acq On : 24 Oct 20 00:46 Operator: LP,DG,CH
Sample : 201023A LCSD 10ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 11:13 2020 Quant Results File: Z1023W.RES

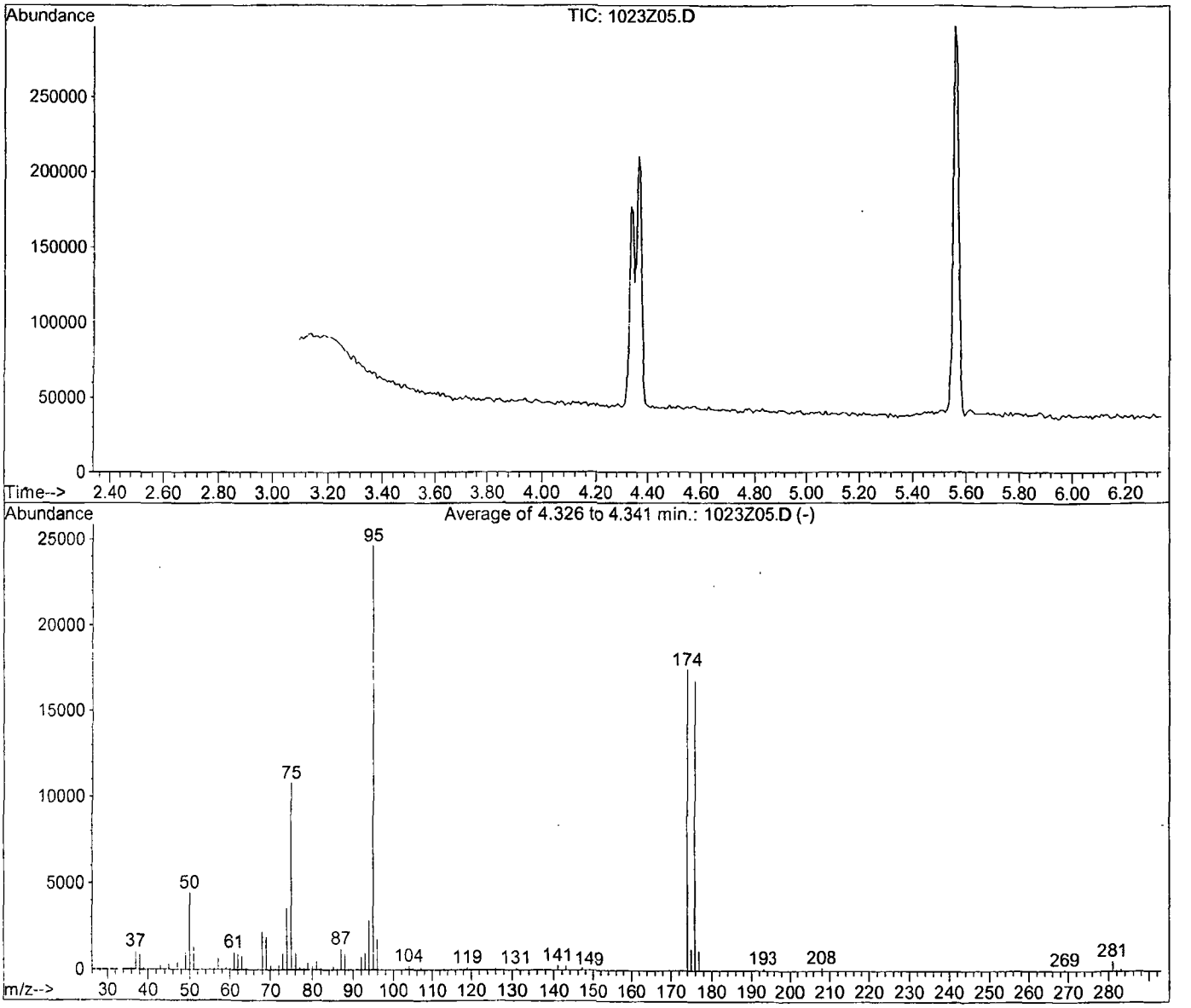
Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Data File : M:\ZEUS\DATA\201023\1023Z05.D
Acq On : 23 Oct 20 13:28
Sample : 25ug/L BFB STD 9/30/20
Misc :

Vial: 1
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B



AutoFind: Scans 173, 174, 175; Background Corrected with Scan 168

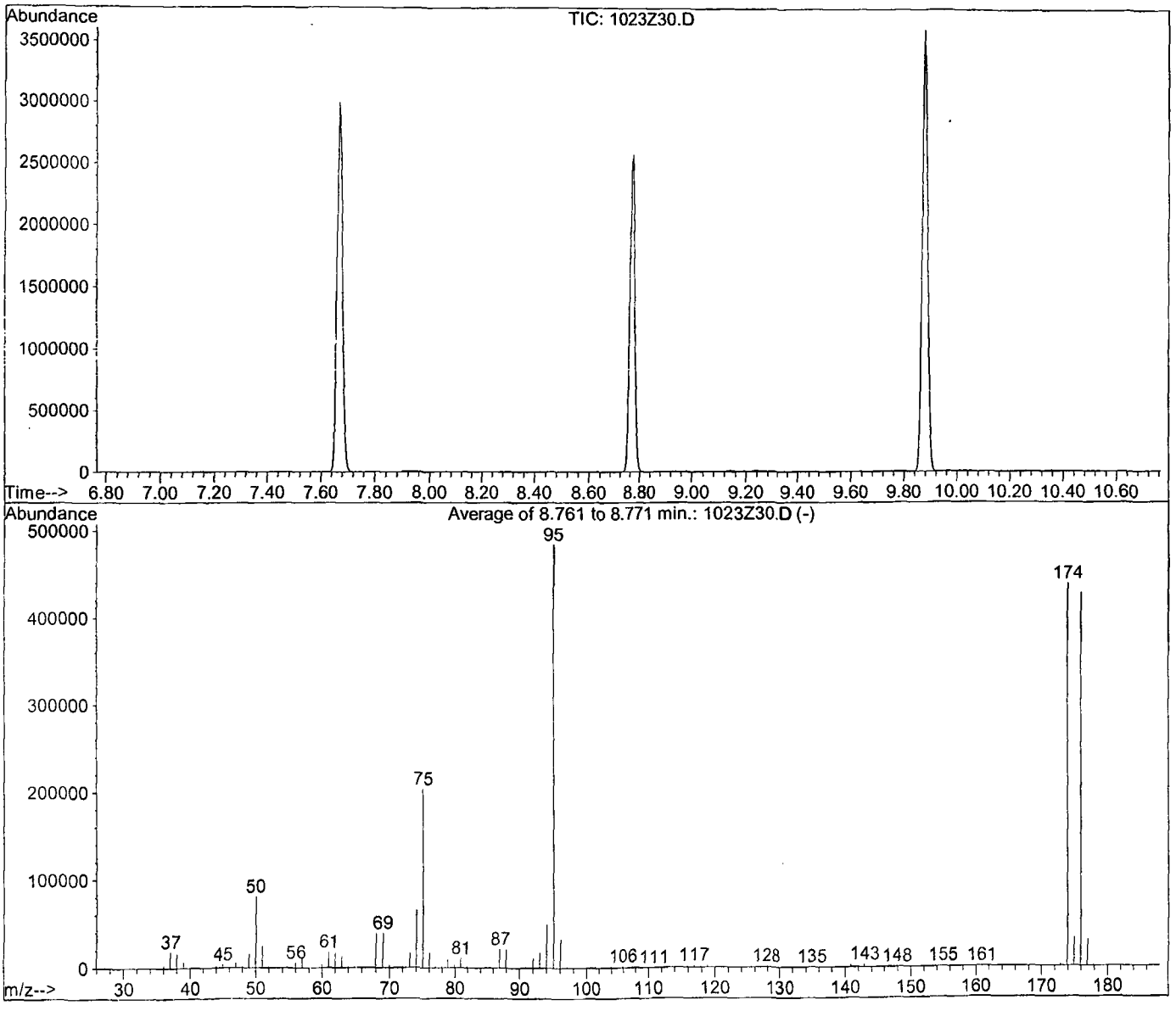
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	4446	PASS
75	95	30	60	43.9	10822	PASS
95	95	100	100	100.0	24632	PASS
96	95	5	9	7.2	1771	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	70.6	17397	PASS
175	174	5	9	7.2	1248	PASS
176	174	95	101	96.5	16782	PASS
177	176	5	9	6.8	1139	PASS

BFB

Data File : M:\ZEUS\DATA\201023\1023Z30.D
Acq On : 23 Oct 20 23:13
Sample : 25ug/L BFB STD 9/30/20
Misc :

Vial: 25
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Method : M:\ZEUS\DATA\201023\Z1023W.M (RTE Integrator)
Title : METHOD 8260B



AutoFind: Scans 1559, 1560, 1561; Background Corrected with Scan 1551

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	80808	PASS
75	95	30	60	42.1	203669	PASS
95	95	100	100	100.0	483755	PASS
96	95	5	9	6.8	33035	PASS
173	174	0.00	2	0.5	2165	PASS
174	95	50	200	90.6	438421	PASS
175	174	5	9	7.2	31541	PASS
176	174	95	101	97.7	428160	PASS
177	176	5	9	6.9	29451	PASS

Zeus 8260 Water Calibration Curve

Prepared By (Initials): CH

0.3ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.3ug/L	5	Prepared 10/18/20	12/17/20	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	5uL			5
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	2.5uL			5
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	2uL			10

0.5ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.5ug/L	5	Prepared 10/18/20	12/17/20	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	10uL			10
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	5uL			10
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	5uL			25

1.0ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	1.0ug/L	5	Prepared 10/18/20	12/17/20	N/A	10uL	50mL	P&T Water	1
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	20uL			20
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	10uL			20
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	10uL			50

2.0ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	2.0ug/L	5	Prepared 10/18/20	12/17/20	N/A	20uL	50mL	P&T Water	2
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	30uL			30
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	15uL			30
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	15uL			75

5ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 10/18/20	12/17/20	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	5uL			5
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	40uL			40
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	20uL			100

10ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 10/18/20	12/17/20	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	10uL			10
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	50uL			50
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	25uL			50
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	25uL			125

20ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 10/18/20	12/17/20	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	20uL			20
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	60uL			60
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	30uL			60
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	30uL			150

40ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 10/18/20	12/17/20	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	40uL			40
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	80uL			80
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	40uL			80
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	35uL			175

100ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 10/18/20	12/17/20	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	100uL			100
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	100uL			100
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	50uL			100
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	40uL			200

Zeus 8260 Water Second Source (SS)

Prepared: 10/23/20

Prepared By (Initials): CH

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 3	Phenova	8260 Water SS	100	Prepared 10/18/20	12/17/20	N/A	25uL	50mL	P&T Water	50
VOA STD. GASES	Phenova	8260 Water SS	50	Prepared 10/18/20	12/17/20	N/A	10uL			10
VOA STD. 0	Phenova	8260 Water SS	50	Prepared 10/18/20	12/17/20	N/A	10uL			10
VOA STD. 2-CEVE	Absolute	8260 Water SS	50	Prepared 10/18/20	10/18/20	N/A	50uL			50
VOA STD. 6	Various	8260 Water SS	50	Prepared 10/18/20	11/04/20	N/A	10uL			10
Voa STD. TBA	Various	8260 Water SS	250	Prepared 10/18/20	11/04/20	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)

Prepared: 10/23/20

Prepared By (Initials): CH

Expires: 10/24/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 10/18/20	12/17/20	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 10/18/20	11/04/20	N/A	10uL			10
VOA STD. 1	Absolute	CCV/ LCS	50	Prepared 10/18/20	12/17/20	N/A	50uL			50
VOA STD. 2	Phenova	CCV/ LCS	100	Prepared 10/18/20	12/17/20	N/A	25uL			50
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 10/18/20	11/04/20	N/A	25uL			125

Primary and Secondary Working Standards

Primary Standards

VOA STD 7

Prepared: 10/18/20 A
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL14506-50819	10/18/21	10/31/24	100uL	4mL	Methanol	50
Hexachloroethane	Absolute	70199	1,000	091818-50780	10/18/21	09/18/23	200uL			50
Benzyl Chloride	Accusta	M-8010-01	1,000	042420-50798	10/18/21	04/24/21	200uL			50

VOA STD 8

Prepared: 10/18/20 B
Expires: 11/04/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL15724-50830	10/18/21	09/30/22	100uL	4mL	Methanol	50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL14379-50556	10/18/21	10/31/24	100uL			50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL15886-50944	10/10/21	11/04/20	100uL			50

VOA STD TBA

Prepared: 10/18/20 C
Expires: 11/04/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL15725-50774	10/18/21	09/30/23	500uL	4mL	Methanol	250
Acrolein	Phenova	ALO-130549	10,000	CL15890-50946	10/10/21	11/04/20	100uL			250

VOA STD 1

Prepared: 10/18/20 D
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	82408	2,000	121119-50901	10/18/21	12/11/22	50	2mL	Methanol	50

VOA STD 2

Prepared: 10/18/20 E
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std.	Phenova	ALO-109211	2,000	CL12730-50632	10/18/21	08/31/28	100	4mL	Methanol	50

VOA STD 9

Prepared: 10/18/20 F
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 10/18/20	10/18/21	N/A	200uL	2mL	Methanol	5
VOA STD. 8			50	Prepared 10/18/20	10/18/21	N/A	200uL			5

VOA STD. 10

Prepared: 10/18/20 G
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 10/18/20	10/18/21	N/A	200uL	2mL	Methanol	5

VOA STD. 12

Prepared: 10/18/20 H
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 10/18/20	10/18/21	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards

VOA STD. 3

Prepared: 10/18/20 I

Expires: 12/17/20

Prepared By (Initials): CH

Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL13994-50636	10/18/21	08/31/29	50uL	2mL	Methanol	50

VOA STD. Gases

Prepared: 10/18/20 J

Expires: 12/17/20

Prepared By (Initials): CH

Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL14505-50824	10/18/21	10/31/24	50uL	2mL	Methanol	50

VOA STD. 6

Prepared: 10/18/20 K

Expires: 11/04/20

Prepared By (Initials): CH

Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL14381-50562	10/18/21	10/31/24	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL15886-50945	10/10/21	11/04/20	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	219061767-50955	10/18/21	06/28/29	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219111303-50803	10/18/21	12/25/21	500uL			50

VOA STD. TBA

Prepared: 10/18/20 L

Expires: 11/04/20

Prepared By (Initials): CH

Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12929-50567	10/18/21	11/30/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL15890-50947	10/10/21	11/04/20	50uL			250

VOA STD. 0

Prepared: 10/18/20 M

Expires: 12/17/20

Prepared By (Initials): CH

Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL14058-50580	10/18/21	08/31/21	50uL	2mL	Methanol	50

VOA STD. 2-CEVE

Prepared: 10/18/20 N

Expires: 12/17/20

Prepared By (Initials): CH

Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE (SS)	Absolute	82408	2,000	011320-50896	10/18/21	01/13/23	50uL	2mL	Methanol	50

Injection Log

Directory: M:\ZEUS\DATA\201023\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1023Z05.D	1	25ug/L BFB STD 9/30/20		23 Oct 20 13:28
2	7	1023Z12.D	1	0.3ug/L VOC STD 10/23/20		23 Oct 20 16:16
3	8	1023Z13.D	1	0.5ug/L VOC STD 10/23/20		23 Oct 20 16:39
4	9	1023Z14.D	1	1ug/L VOC STD 10/23/20		23 Oct 20 17:02
5	10	1023Z15.D	1	2ug/L VOC STD 10/23/20		23 Oct 20 17:26
6	11	1023Z16.D	1	5ug/L VOC STD 10/23/20		23 Oct 20 17:49
7	12	1023Z17.D	1	10ug/L VOC STD 10/23/20		23 Oct 20 18:12
8	13	1023Z18.D	1	20ug/L VOC STD 10/23/20		23 Oct 20 18:35
9	14	1023Z19.D	1	40ug/L VOC STD 10/23/20		23 Oct 20 18:58
10	15	1023Z20.D	1	100ug/L VOC STD 10/23/20		23 Oct 20 19:21
11	17	1023Z22.D	1	(SS)10ug/L VOC STD 10/23/20		23 Oct 20 20:07
12	25	1023Z30.D	1	25ug/L BFB STD 9/30/20		23 Oct 20 23:13
13	27	1023Z32.D	1	201023A CCV 10ug/L		24 Oct 20 00:00
14	28	1023Z33.D	1	201023A LCS 10ug/L		24 Oct 20 00:23
15	29	1023Z34.D	1	201023A LCSD 10ug/L		24 Oct 20 00:46
16	33	1023Z38.D	1	201023A BLK		24 Oct 20 02:18
17	41	1023Z46.D	1	BA20485W01		24 Oct 20 05:23
18	42	1023Z47.D	1	BA20486W01		24 Oct 20 05:46
19	47	1023Z52.D	1	Ending CCV 10ug/L 10/23/20		24 Oct 20 07:41

ORGANICS

Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc
Case No.
Matrix: water
SDG No
Initial Cal. Date: 10/23/20
Instrument: ZEUS
Initials: DG

			1023Z12 D	1023Z13 D	1023Z14 D	1023Z15 D	1023Z16 D	1023Z17 D	1023Z18 D	1023Z19 D	1023Z20.D							
		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	S	Dibromofluoromethane(S)	0.2144	0.2808	0.2561	0.2513	0.2717	0.2663	0.2757	0.2702	0.2750		0.26	7.7	S			
3	S	1,2-DCA-D4(S)	0.2008	0.2667	0.2371	0.2352	0.2519	0.2514	0.2632	0.2556	0.2731		0.25	8.8	S			
4	I	Chlorobenzene-D5 (IS)																
5	S	Toluene-D8(S)	0.9932	1.352	1.185	1.197	1.302	1.290	1.339	1.340	1.340		1.3	9.3	S			
6	S	4-Bromofluorobenzene(S)	0.3948	0.5128	0.4550	0.4585	0.4892	0.4760	0.5033	0.4955	0.5289		0.48	8.3	S			
7	I	1,4-Dichlorobenzene-D (IS)																
8																		
9																		
10																		
11																		
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Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z12.D Vial: 7
Acq On : 23 Oct 20 16:16 Operator: LP,DG,CH
Sample : 0.3ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2356083	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1791294	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	1110019	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	101039	4.09	ppb	0.00
Spiked Amount 25.000			Recovery =	16.344%		
3) 1,2-DCA-D4(S)	4.72	65	94632	4.04	ppb	0.00
Spiked Amount 25.000			Recovery =	16.172%		
5) Toluene-D8(S)	6.38	98	355821	3.94	ppb	0.00
Spiked Amount 25.000			Recovery =	15.768%		
6) 4-Bromofluorobenzene(S)	8.77	95	141456	4.12	ppb	0.00
Spiked Amount 25.000			Recovery =	16.476%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

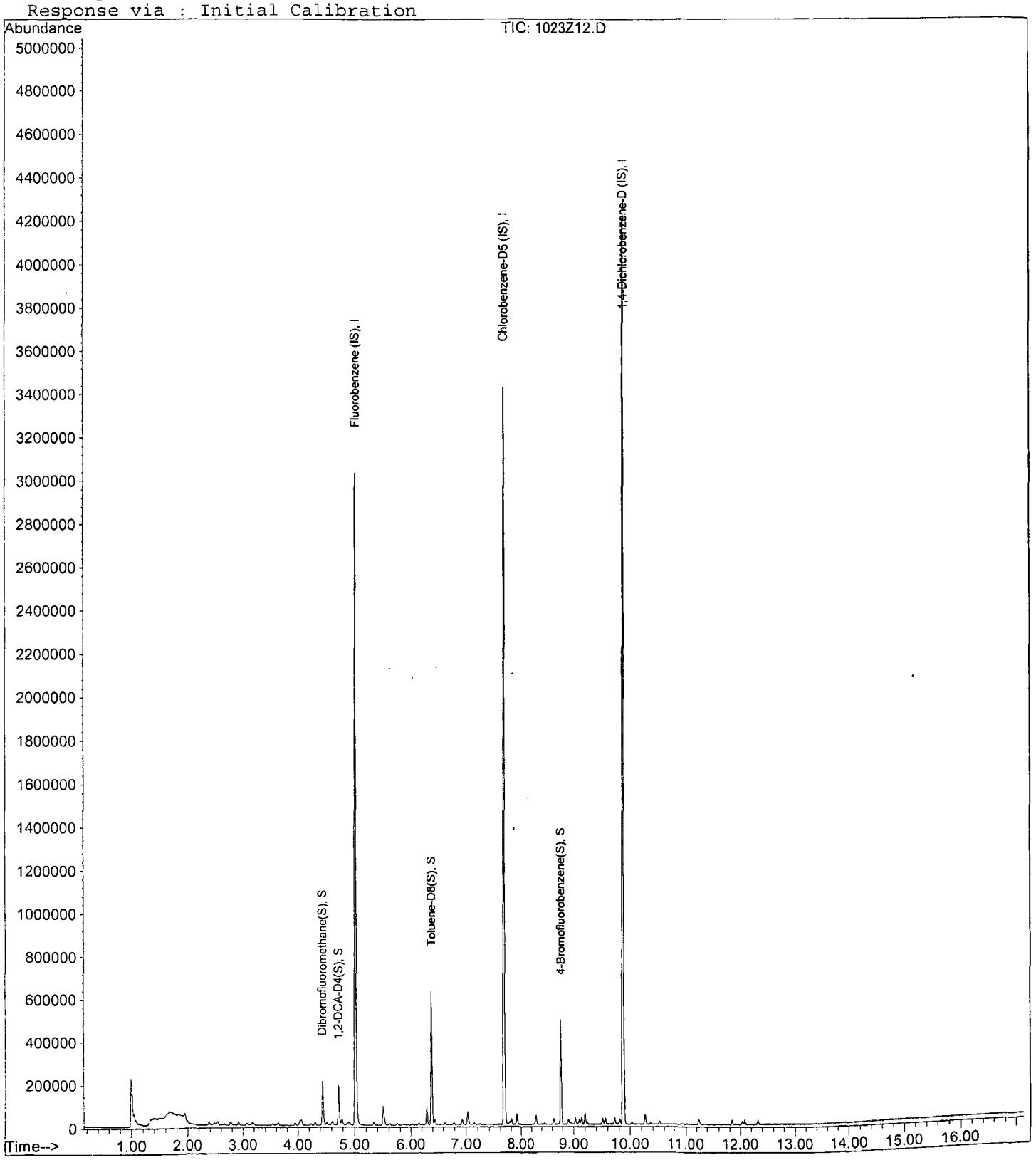
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z12.D
Acq On : 23 Oct 20 16:16
Sample : 0.3ug/L VOC STD 10/23/20
Misc :

Vial: 7
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z13.D Vial: 8
Acq On : 23 Oct 20 16:39 Operator: LP,DG,CH
Sample : 0.5ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2341446	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1753907	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	1082115	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	657513	26.75	ppb	0.00
Spiked Amount 25.000			Recovery =	107.016%		
3) 1,2-DCA-D4(S)	4.72	65	624435	26.85	ppb	0.00
Spiked Amount 25.000			Recovery =	107.392%		
5) Toluene-D8(S)	6.39	98	2370729	26.83	ppb	0.00
Spiked Amount 25.000			Recovery =	107.308%		
6) 4-Bromofluorobenzene(S)	8.77	95	899469	26.75	ppb	0.00
Spiked Amount 25.000			Recovery =	106.988%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

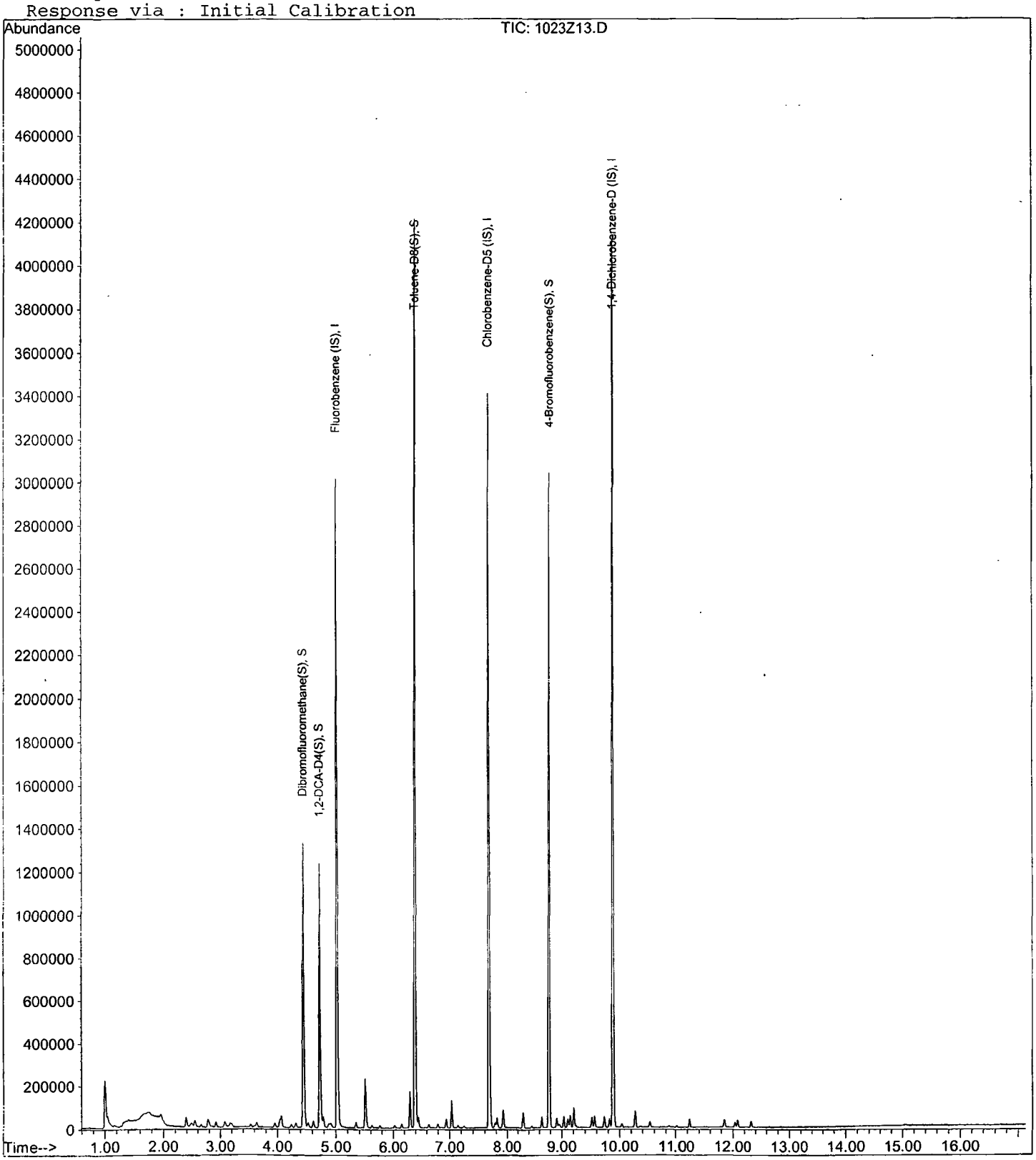
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z13.D
Acq On : 23 Oct 20 16:39
Sample : 0.5ug/L VOC STD 10/23/20
Misc :

Vial: 8
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z14.D Vial: 9
Acq On : 23 Oct 20 17:02 Operator: LP,DG,CH
Sample : 1ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2316688	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1762926	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	1084727	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	237342	9.76	ppb	0.00
Spiked Amount 25.000			Recovery =	39.044%		
3) 1,2-DCA-D4(S)	4.72	65	219710	9.55	ppb	0.00
Spiked Amount 25.000			Recovery =	38.192%		
5) Toluene-D8(S)	6.39	98	835305	9.40	ppb	0.00
Spiked Amount 25.000			Recovery =	37.616%		
6) 4-Bromofluorobenzene(S)	8.77	95	320853	9.49	ppb	0.00
Spiked Amount 25.000			Recovery =	37.968%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

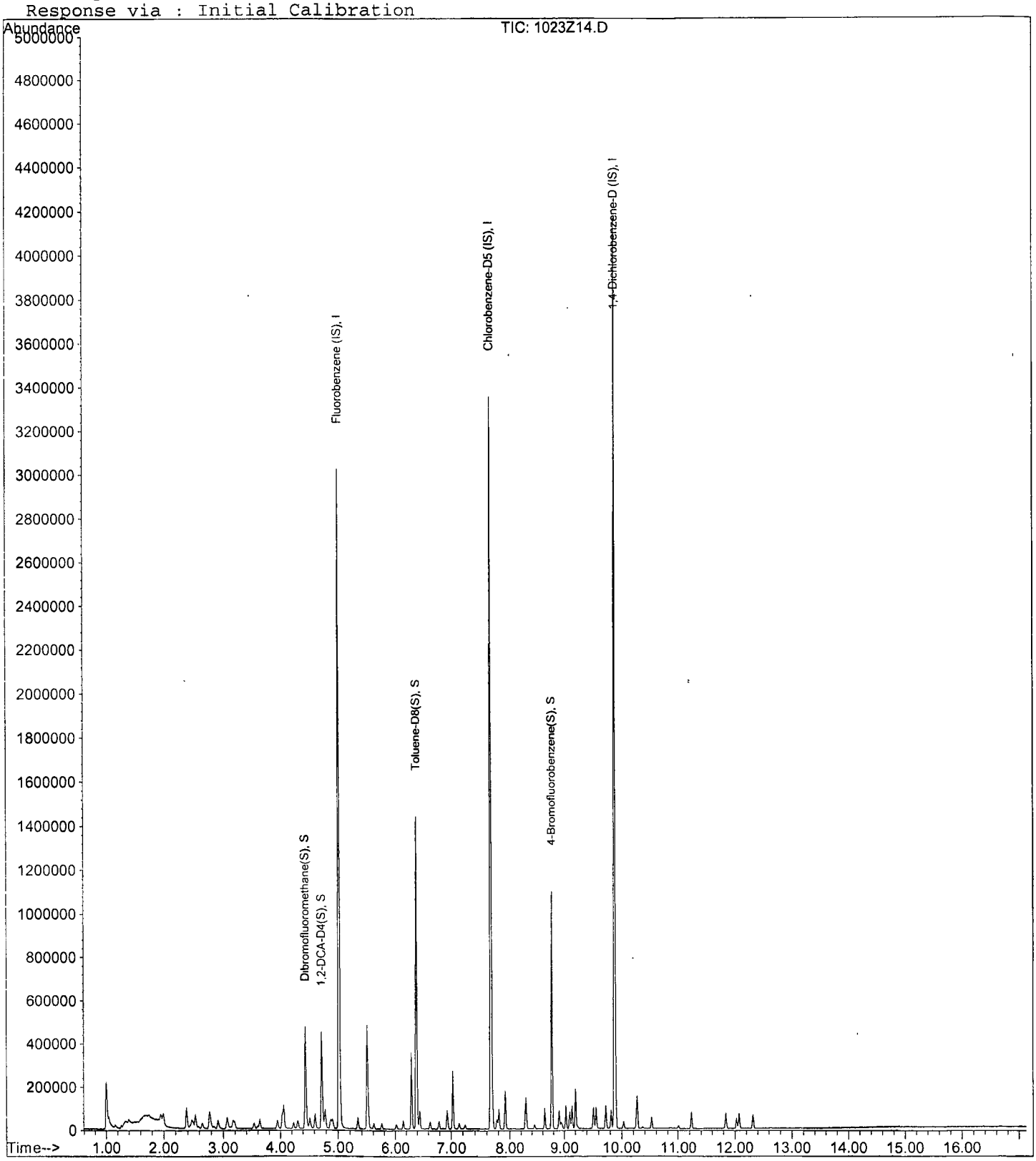
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z14.D
Acq On : 23 Oct 20 17:02
Sample : 1ug/L VOC STD 10/23/20
Misc :

Vial: 9
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z15.D Vial: 10
Acq On : 23 Oct 20 17:26 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2327405	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1752454	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	1076444	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	233948	9.58	ppb	0.00
Spiked Amount 25.000			Recovery =	38.308%		
3) 1,2-DCA-D4(S)	4.72	65	218992	9.47	ppb	0.00
Spiked Amount 25.000			Recovery =	37.892%		
5) Toluene-D8(S)	6.39	98	839127	9.50	ppb	0.00
Spiked Amount 25.000			Recovery =	38.012%		
6) 4-Bromofluorobenzene(S)	8.77	95	321402	9.57	ppb	0.00
Spiked Amount 25.000			Recovery =	38.260%		

Target Compounds Qvalue

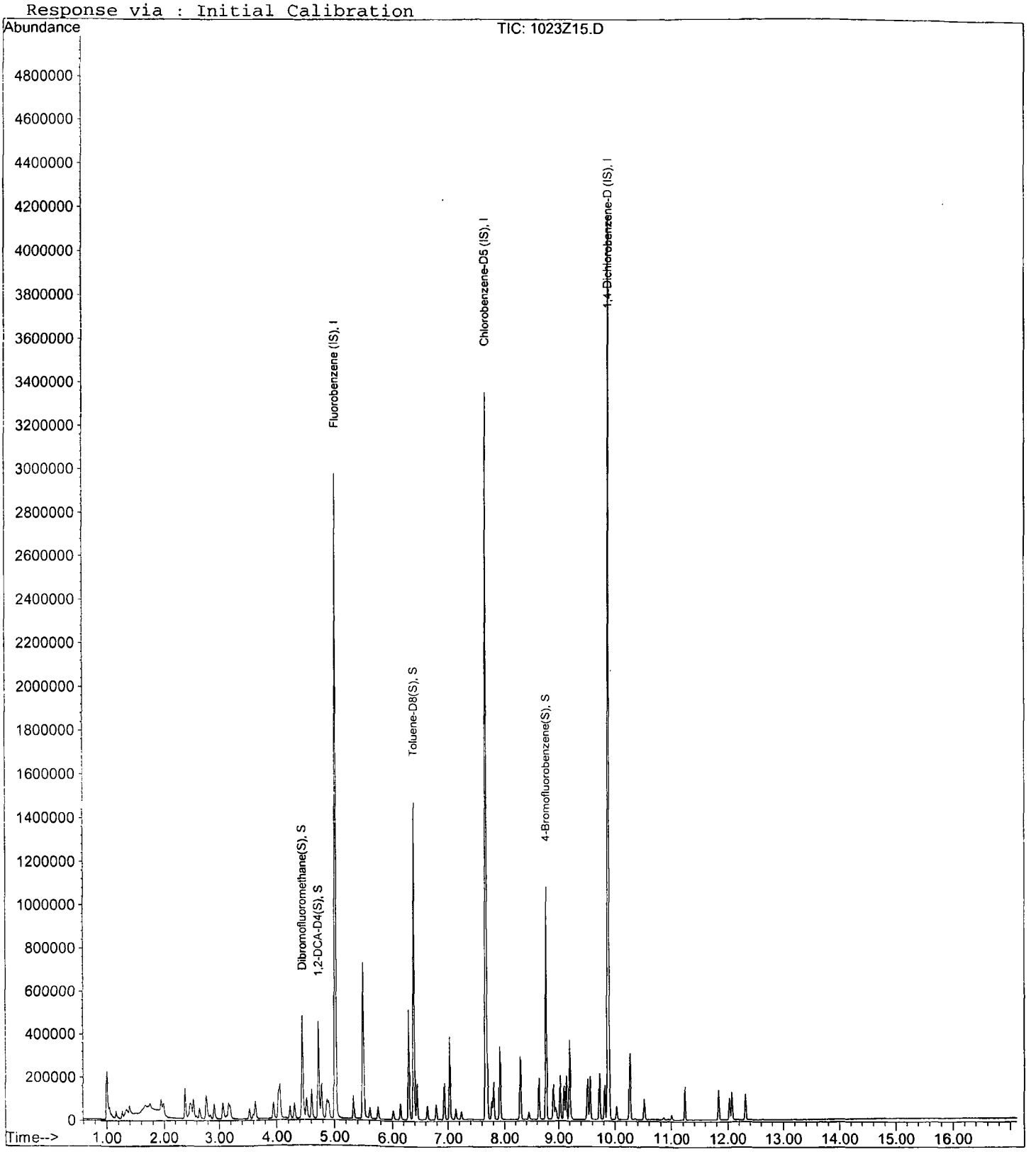
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z15.D Vial: 10
Acq On : 23 Oct 20 17:26 Operator: LP,DG,CH
Sample : 2ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z16.D Vial: 11
Acq On : 23 Oct 20 17:49 Operator: LP,DG,CH
Sample : 5ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2262889	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1703750	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	1027534	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	614749	25.88	ppb	0.00
Spiked Amount 25.000			Recovery = 103.528%			
3) 1,2-DCA-D4(S)	4.72	65	570075	25.36	ppb	0.00
Spiked Amount 25.000			Recovery = 101.448%			
5) Toluene-D8(S)	6.39	98	2218123	25.84	ppb	0.00
Spiked Amount 25.000			Recovery = 103.356%			
6) 4-Bromofluorobenzene(S)	8.77	95	833433	25.51	ppb	0.00
Spiked Amount 25.000			Recovery = 102.052%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

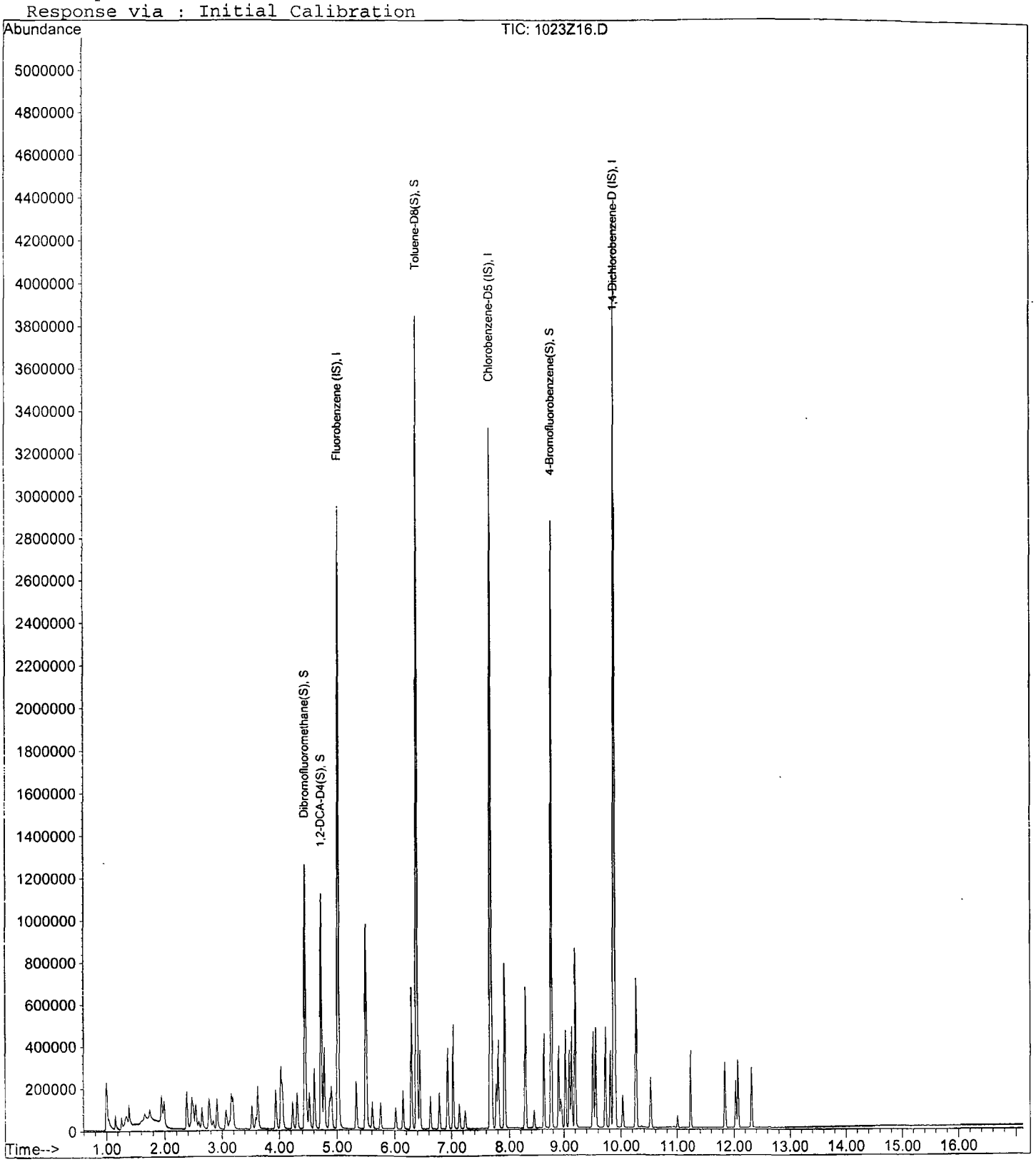
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z16.D
Acq On : 23 Oct 20 17:49
Sample : 5ug/L VOC STD 10/23/20
Misc :

Vial: 11
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z17.D Vial: 12
Acq On : 23 Oct 20 18:12 Operator: LP,DG,CH
Sample : 10ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2263169	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1720200	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	1020669	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	602681	25.37	ppb	0.00
Spiked Amount 25.000			Recovery =	101.484%		
3) 1,2-DCA-D4(S)	4.72	65	568939	25.31	ppb	0.00
Spiked Amount 25.000			Recovery =	101.232%		
5) Toluene-D8(S)	6.39	98	2218898	25.60	ppb	0.00
Spiked Amount 25.000			Recovery =	102.404%		
6) 4-Bromofluorobenzene(S)	8.77	95	818873	24.83	ppb	0.00
Spiked Amount 25.000			Recovery =	99.308%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

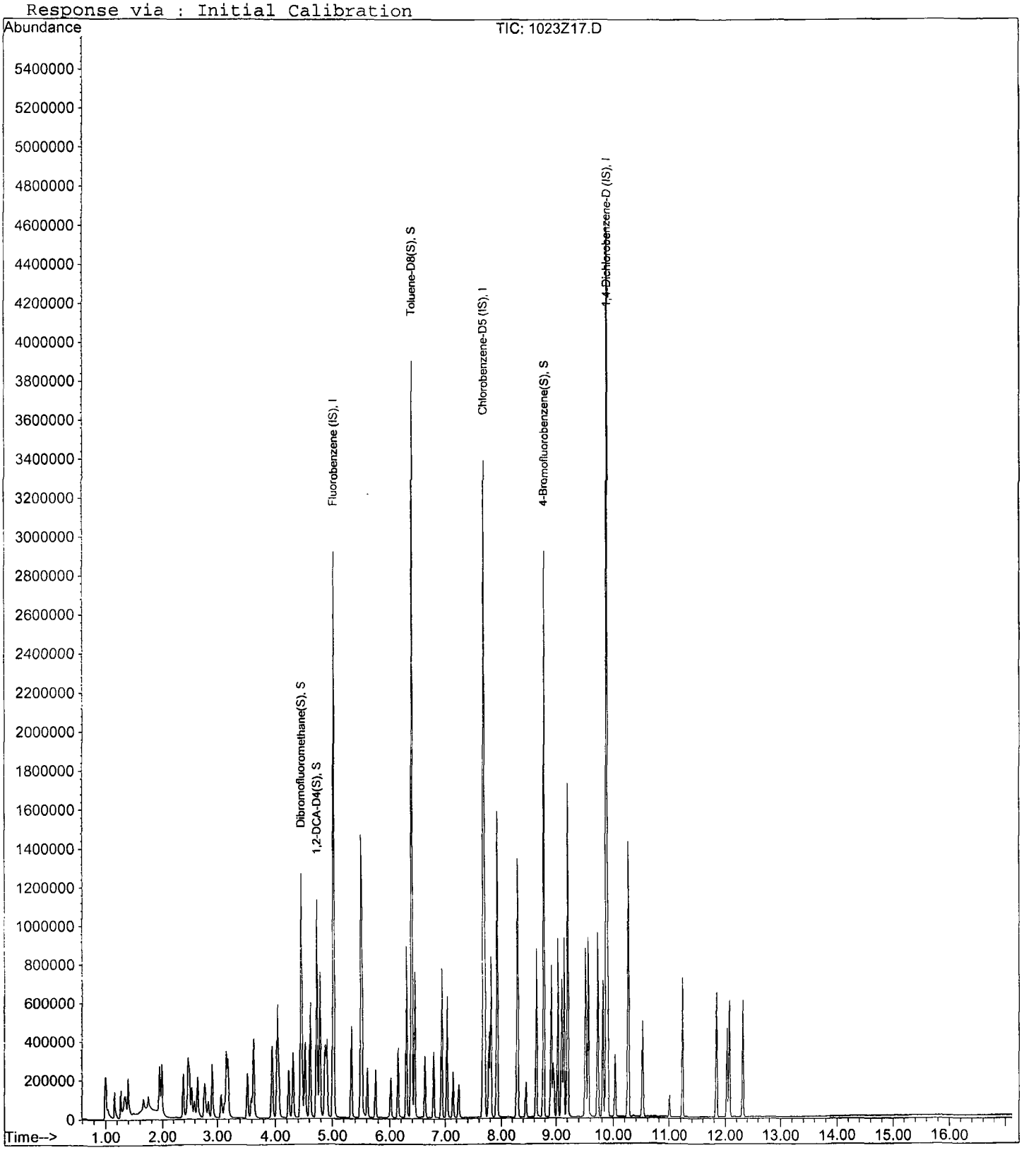
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z17.D
Acq On : 23 Oct 20 18:12
Sample : 10ug/L VOC STD 10/23/20
Misc :

Vial: 12
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z18.D Vial: 13
Acq On : 23 Oct 20 18:35 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2267294	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.68	117	1710493	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	1008889	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	1250381	52.54	ppb	0.00
Spiked Amount 25.000			Recovery =	210.168%		
3) 1,2-DCA-D4(S)	4.72	65	1193346	52.99	ppb	0.00
Spiked Amount 25.000			Recovery =	211.948%		
5) Toluene-D8(S)	6.39	98	4579966	53.14	ppb	0.00
Spiked Amount 25.000			Recovery =	212.564%		
6) 4-Bromofluorobenzene(S)	8.77	95	1721761	52.50	ppb	0.00
Spiked Amount 25.000			Recovery =	209.992%		

Target Compounds Qvalue

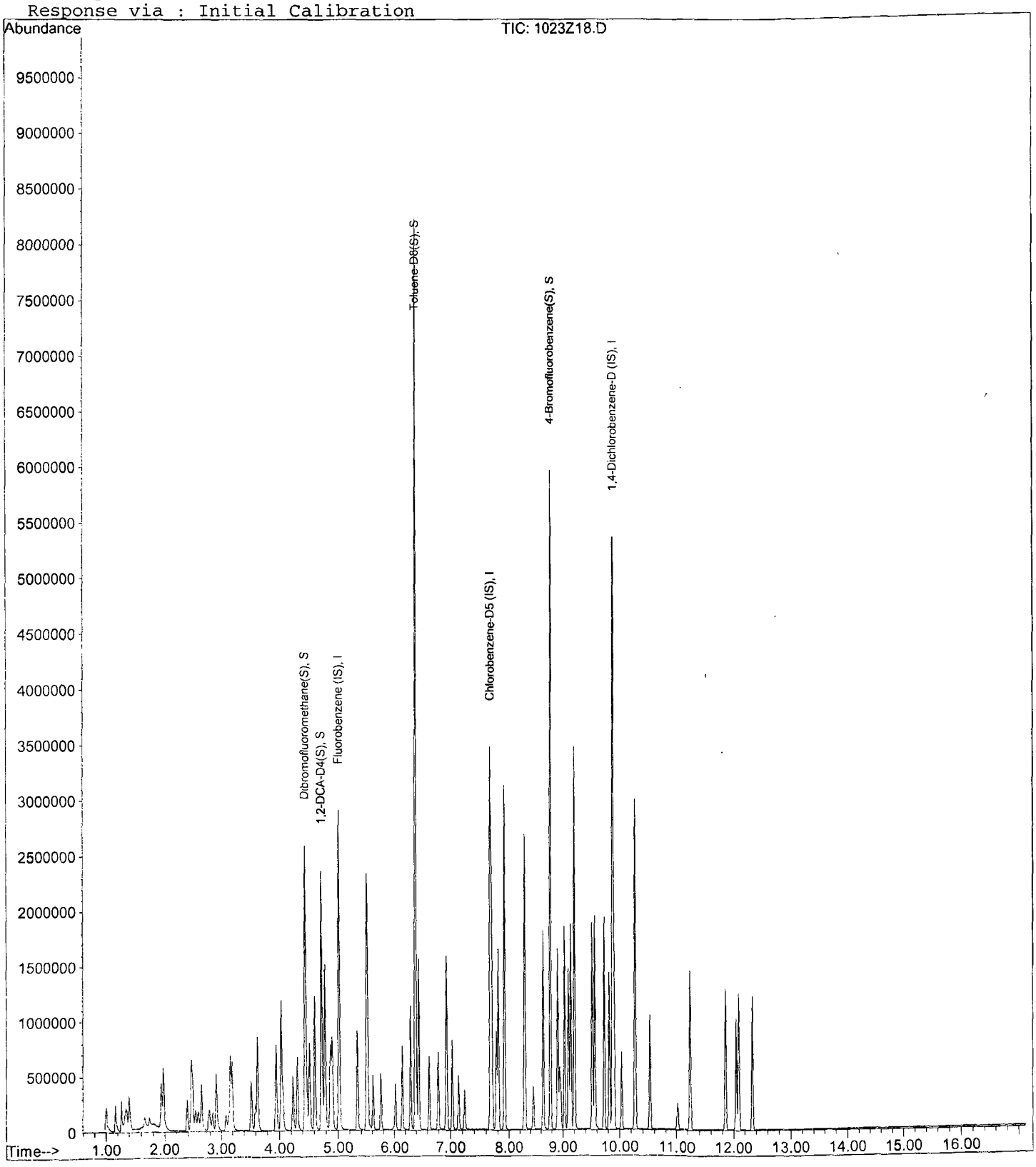
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z18.D Vial: 13
Acq On : 23 Oct 20 18:35 Operator: LP,DG,CH
Sample : 20ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z19.D Vial: 14
Acq On : 23 Oct 20 18:58 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2320328	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1767155	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	1007559	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	1254122	51.49	ppb	0.00
Spiked Amount 25.000			Recovery =	205.976%		
3) 1,2-DCA-D4(S)	4.72	65	1186014	51.46	ppb	0.00
Spiked Amount 25.000			Recovery =	205.832%		
5) Toluene-D8(S)	6.39	98	4735021	53.18	ppb	0.00
Spiked Amount 25.000			Recovery =	212.716%		
6) 4-Bromofluorobenzene(S)	8.77	95	1751274	51.69	ppb	0.00
Spiked Amount 25.000			Recovery =	206.744%		

Target Compounds Qvalue

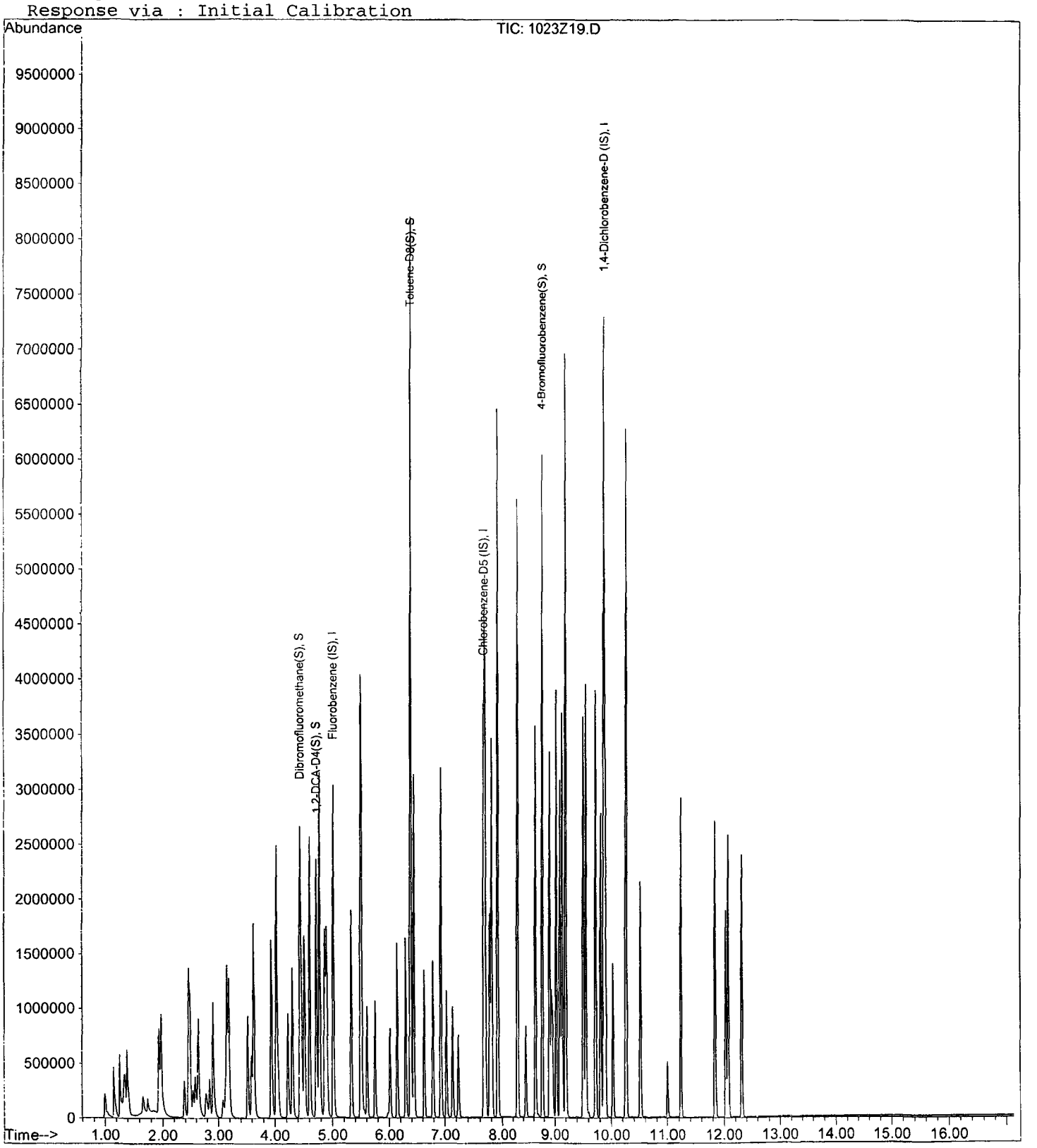
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z19.D Vial: 14
Acq On : 23 Oct 20 18:58 Operator: LP,DG,CH
Sample : 40ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z20.D Vial: 15
Acq On : 23 Oct 20 19:21 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2370785	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1827598	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	995518	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	2608129	104.81	ppb	0.00
Spiked Amount 25.000			Recovery =	419.244%		
3) 1,2-DCA-D4(S)	4.72	65	2589719	109.97	ppb	0.00
Spiked Amount 25.000			Recovery =	439.876%		
5) Toluene-D8(S)	6.39	98	9795857	106.38	ppb	0.00
Spiked Amount 25.000			Recovery =	425.512%		
6) 4-Bromofluorobenzene(S)	8.77	95	3866481	110.34	ppb	0.00
Spiked Amount 25.000			Recovery =	441.356%		

Target Compounds Qvalue

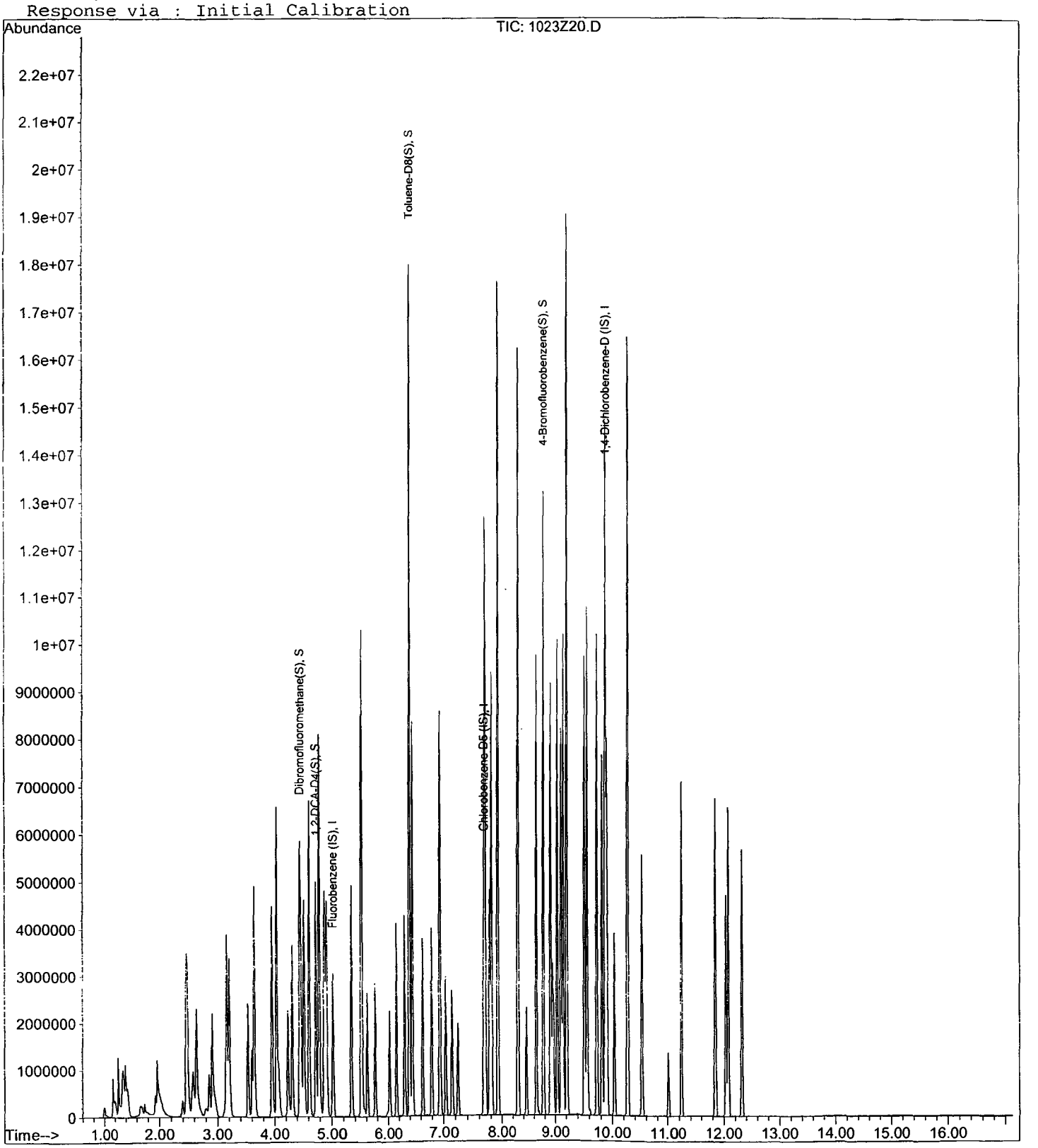
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z20.D Vial: 15
Acq On : 23 Oct 20 19:21 Operator: LP,DG,CH
Sample : 100ug/L VOC STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:30 2020 Quant Results File: ZSUR23.RES

Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/23/20
Matrix: water Instrument: ZEUS Initials: DG

		Compound	1023Z23 D	1023Z24 D	1023Z25.D	1023Z26.D	1023Z27.D	1023Z28 D	1023Z29 D				Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	TMHBL	Gasoline C6-C10	10.6	4 435	2.410	1.041	0.7778	0.6681	0.6407				2.9	124	TMHB	0.997		
3	I	Chlorobenzene-D5 (IS)																
4	I	1,4-Dichlorobenzene-D (IS)																
5																		
6																		
7																		
8																		
9																		
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Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z23.D Vial: 18
Acq On : 23 Oct 20 20:31 Operator: LP,DG,CH
Sample : 20ug/L GAS STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:14 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 15:15:47 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2904485	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3922986	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3922986	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.39	TIC	24514726m	39.27	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

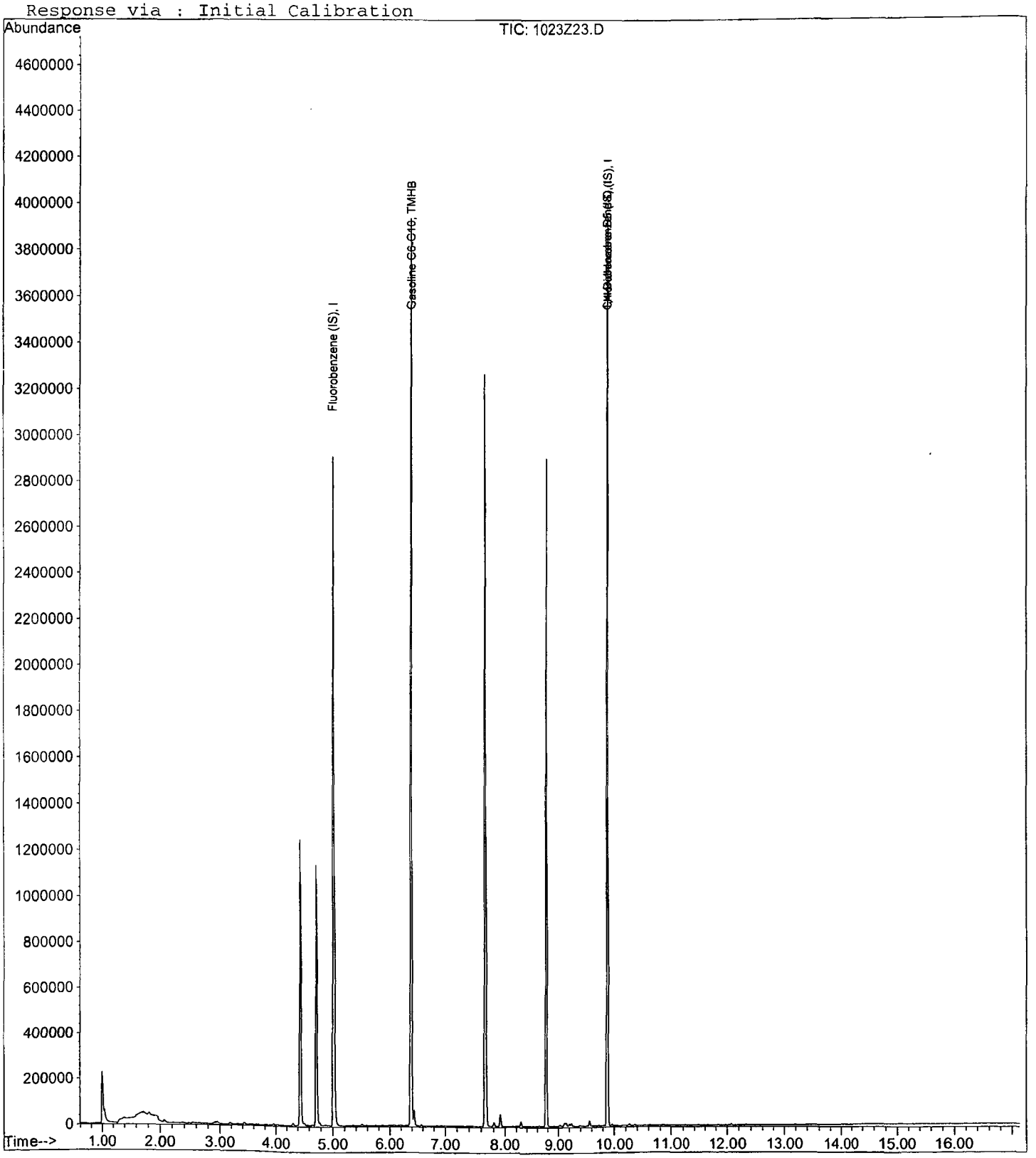
Data File : M:\ZEUS\DATA\201023\1023Z23.D
Acq On : 23 Oct 20 20:31
Sample : 20ug/L GAS STD 10/23/20
Misc :

Vial: 18
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:14 2020

Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z24.D
Acq On : 23 Oct 20 20:54
Sample : 50ug/L GAS STD 10/23/20
Misc :

Vial: 19
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:15 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 15:15:47 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2838365	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3857198	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3857198	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.39	TIC	25176050m	63.64	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

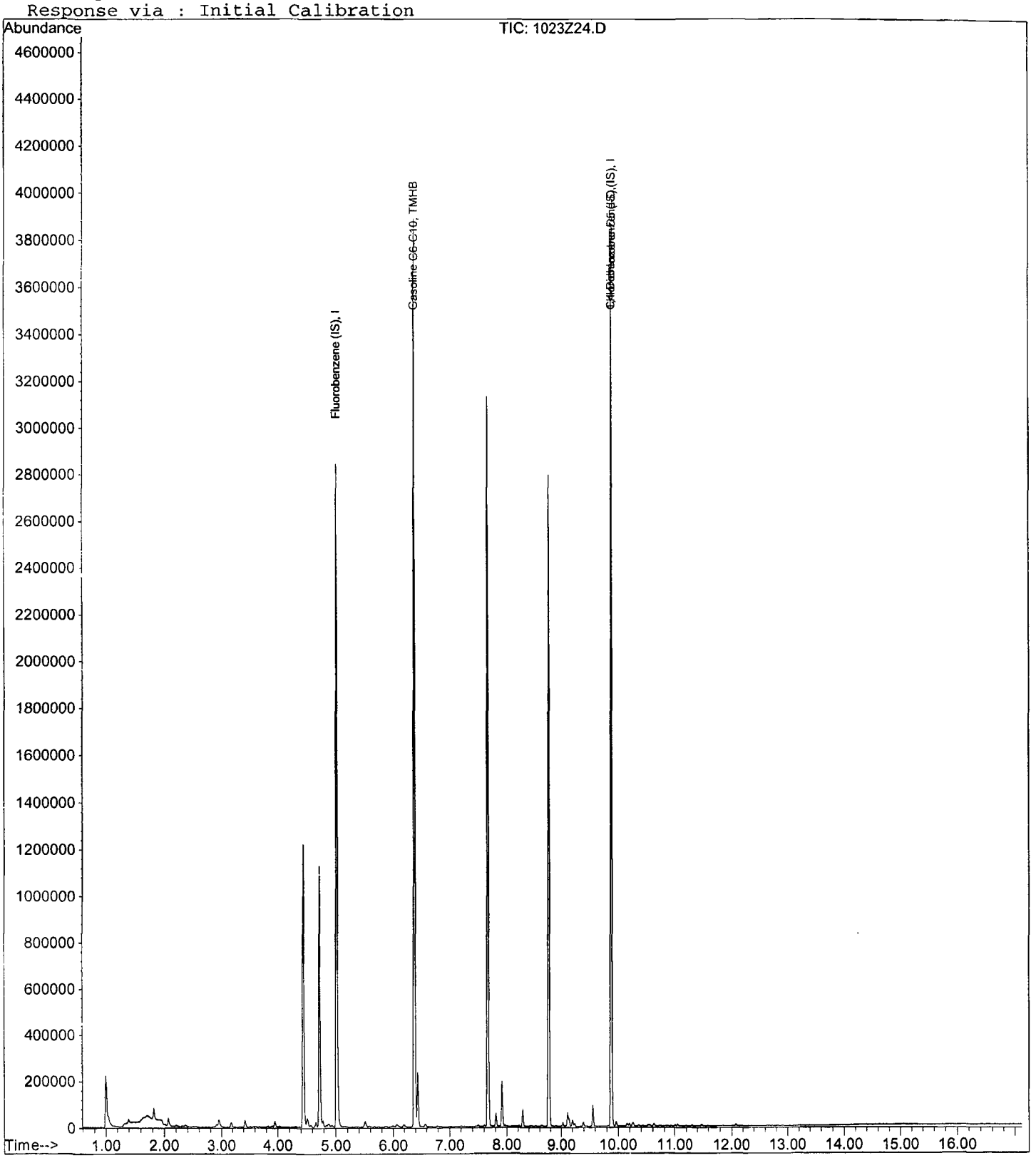
Data File : M:\ZEUS\DATA\201023\1023Z24.D
Acq On : 23 Oct 20 20:54
Sample : 50ug/L GAS STD 10/23/20
Misc :

Vial: 19
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:15 2020

Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z25.D Vial: 20
Acq On : 23 Oct 20 21:18 Operator: LP,DG,CH
Sample : 100ug/L GAS STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:16 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 15:15:47 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2959111	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3702387	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3702387	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.39	TIC	28529124m	107.38	ppb	100

(#) = qualifier out of range (m) = manual integration
1023Z25.D ZGAS1023.M Tue Oct 27 10:22:48 2020 414 of 540 Page 1

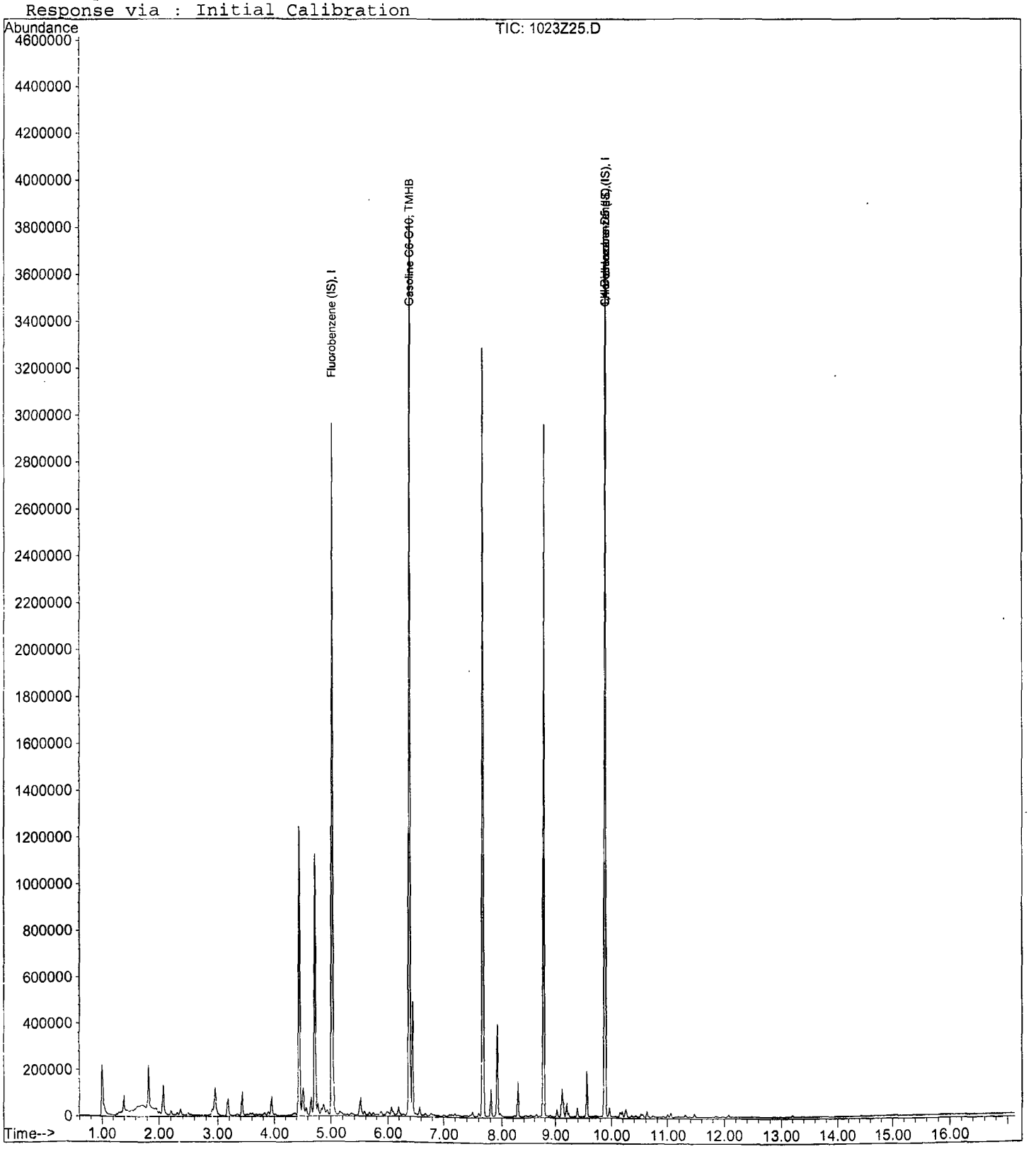
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z25.D
Acq On : 23 Oct 20 21:18
Sample : 100ug/L GAS STD 10/23/20
Misc :

Vial: 20
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:16 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z26.D Vial: 21
Acq On : 23 Oct 20 21:41 Operator: LP,DG,CH
Sample : 300ug/L GAS STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:16 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 15:15:47 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2861301	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3706543	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3706543	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.39	TIC	35733665m	268.88	ppb	100

(#) = qualifier out of range (m) = manual integration

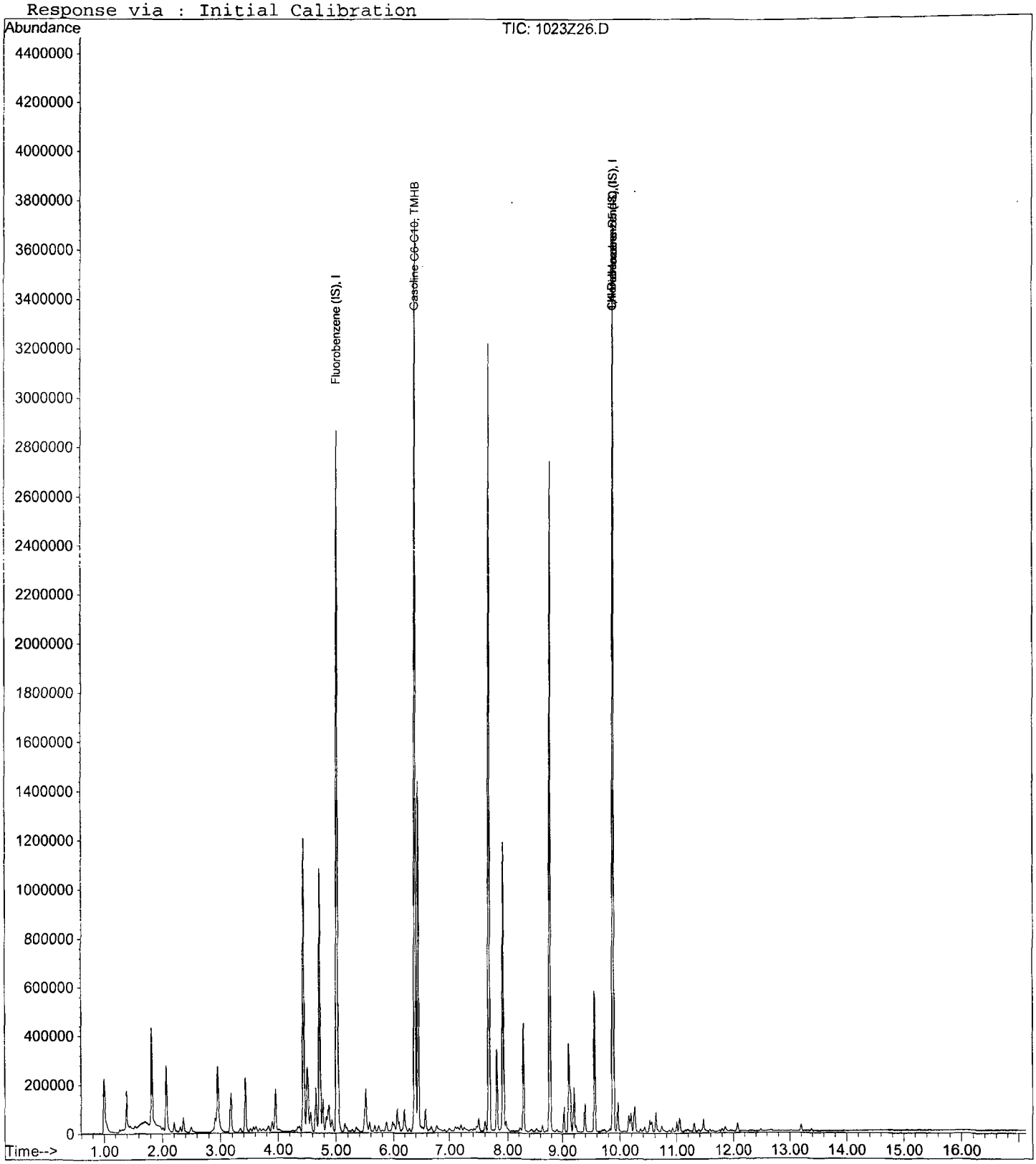
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z26.D
Acq On : 23 Oct 20 21:41
Sample : 300ug/L GAS STD 10/23/20
Misc :

Vial: 21
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:16 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z27.D Vial: 22
Acq On : 23 Oct 20 22:04 Operator: LP,DG,CH
Sample : 600ug/L GAS STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:17 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 15:15:47 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2851219	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3742479	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3742479	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.39	TIC	53222358m	619.28	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

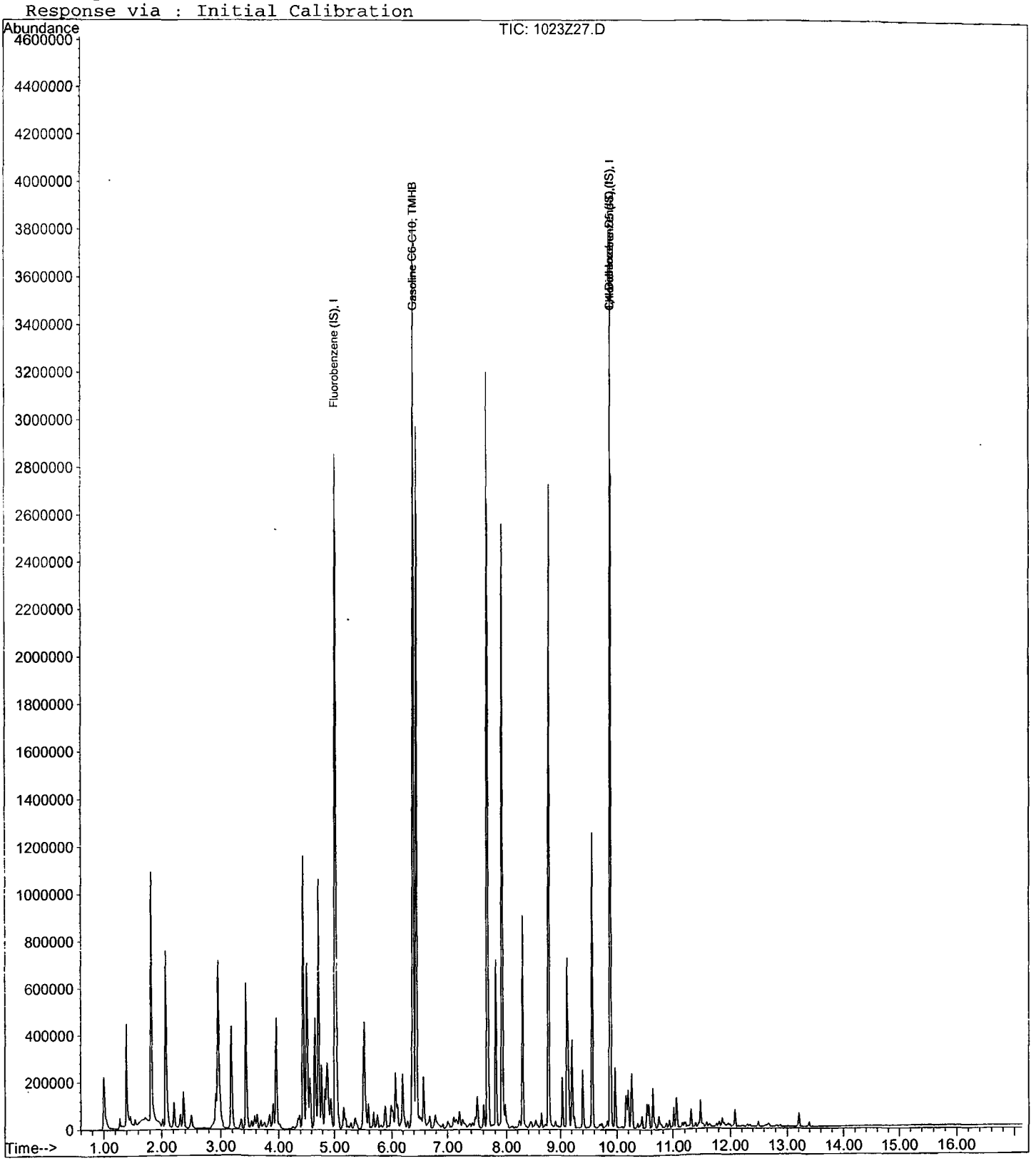
Data File : M:\ZEUS\DATA\201023\1023Z27.D
Acq On : 23 Oct 20 22:04
Sample : 600ug/L GAS STD 10/23/20
Misc :

Vial: 22
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:17 2020

Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z28.D
Acq On : 23 Oct 20 22:27
Sample : 800ug/L GAS STD 10/23/20
Misc :

Vial: 23
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:17 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 15:15:47 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2865326	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3625510	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3625510	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	61256286m	773.10	ppb	100

(#) = qualifier out of range (m) = manual integration

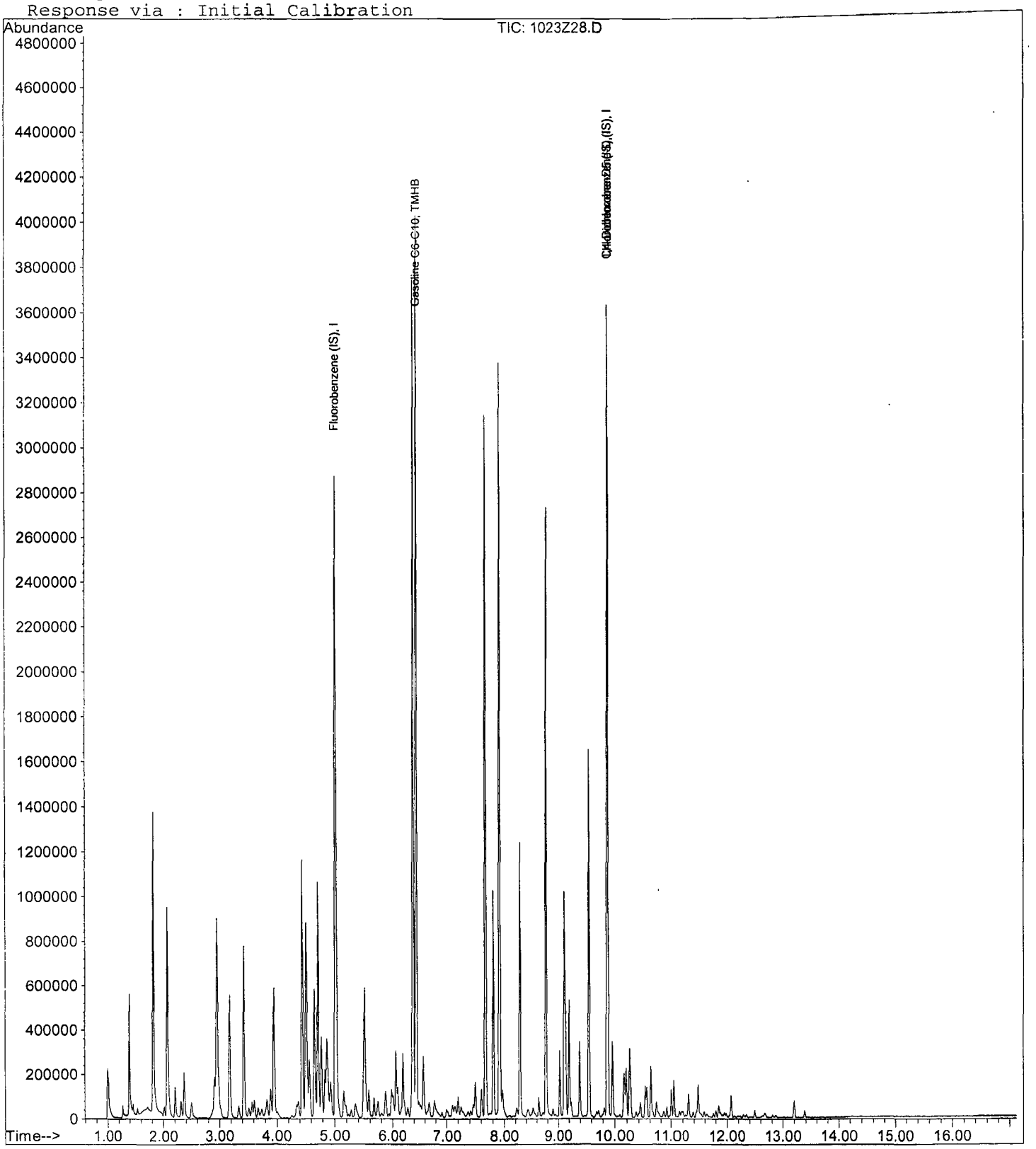
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z28.D
Acq On : 23 Oct 20 22:27
Sample : 800ug/L GAS STD 10/23/20
Misc :

Vial: 23
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:17 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z29.D Vial: 24
Acq On : 23 Oct 20 22:50 Operator: LP,DG,CH
Sample : 1000ug/L GAS STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:18 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 15:15:47 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2826146	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3463693	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3463693	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.44	TIC	72423631m	1014.03	ppb	100

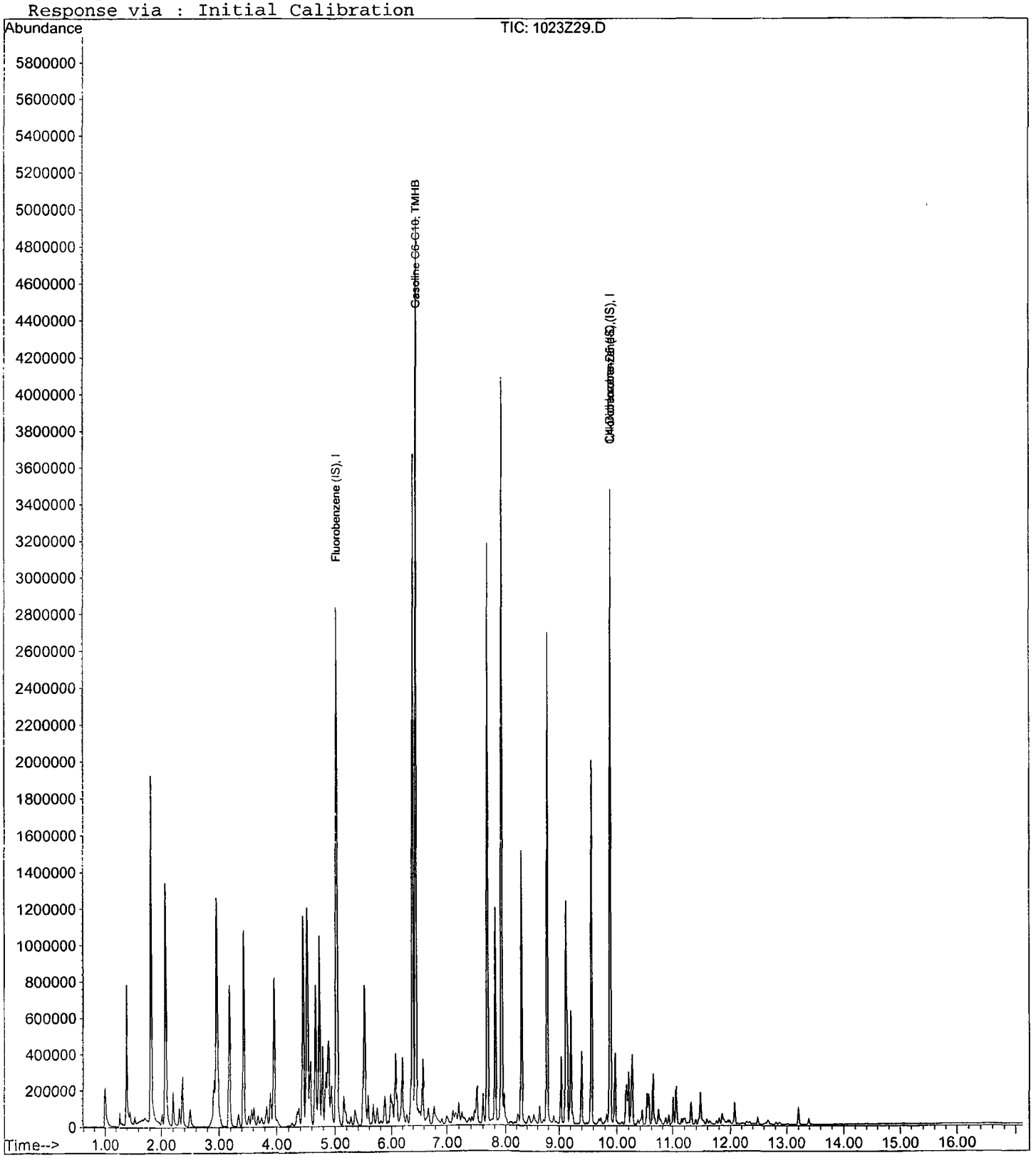
(#) = qualifier out of range (m) = manual integration

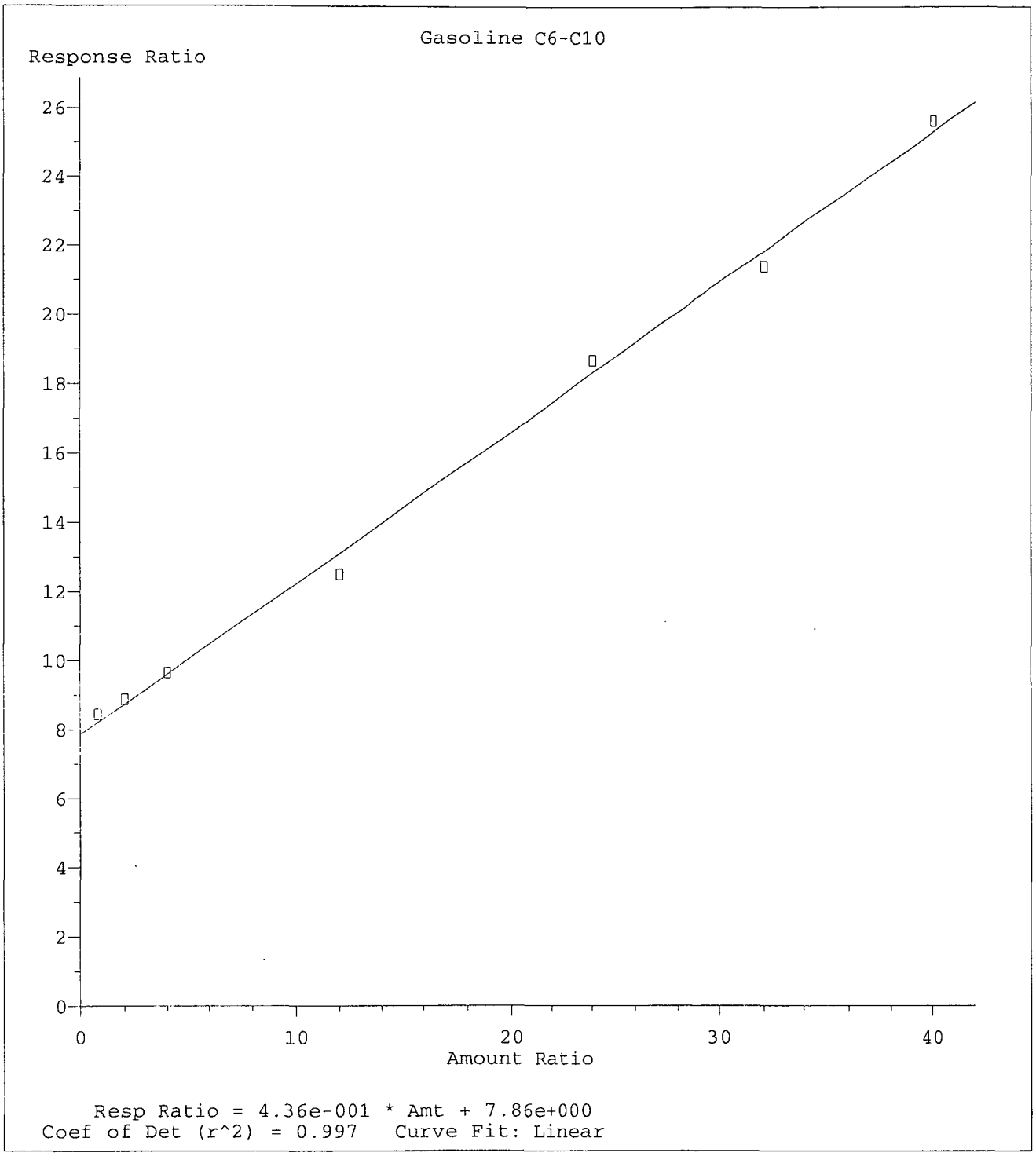
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z29.D Vial: 24
Acq On : 23 Oct 20 22:50 Operator: LP,DG,CH
Sample : 1000ug/L GAS STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:18 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration





Method Name: M:\ZEUS\DATA\201023\ZGAS1023.M
Calibration Table Last Updated: Tue Oct 27 10:18:06 2020

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/23/20
Instrument: ZEUS
Initial Cal. Date: 10/23/20
Data File: 1023Z31.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TMHB	Gasoline C6-C10	2.932	1.028	65	TMHBL	15
2							
3							
4							
5							
6							
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40							
		Average			65.0		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z31.D Vial: 26
Acq On : 23 Oct 20 23:37 Operator: LP,DG,CH
Sample : (SS)300ug/L GAS STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 10:22 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2786509	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3549371	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3549371	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.39	TIC	34364919m	256.17	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z31.D Vial: 26
Acq On : 23 Oct 20 23:37 Operator: LP,DG,CH
Sample : (SS)300ug/L GAS STD 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:27 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2149662	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1612576	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	938355	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	577013	25.57	ppb	0.00
Spiked Amount 25.000			Recovery =	102.292%		
3) 1,2-DCA-D4(S)	4.72	65	525834	24.63	ppb	0.00
Spiked Amount 25.000			Recovery =	98.504%		
5) Toluene-D8(S)	6.39	98	2096440	25.80	ppb	0.00
Spiked Amount 25.000			Recovery =	103.208%		
6) 4-Bromofluorobenzene(S)	8.77	95	770613	24.92	ppb	0.00
Spiked Amount 25.000			Recovery =	99.692%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

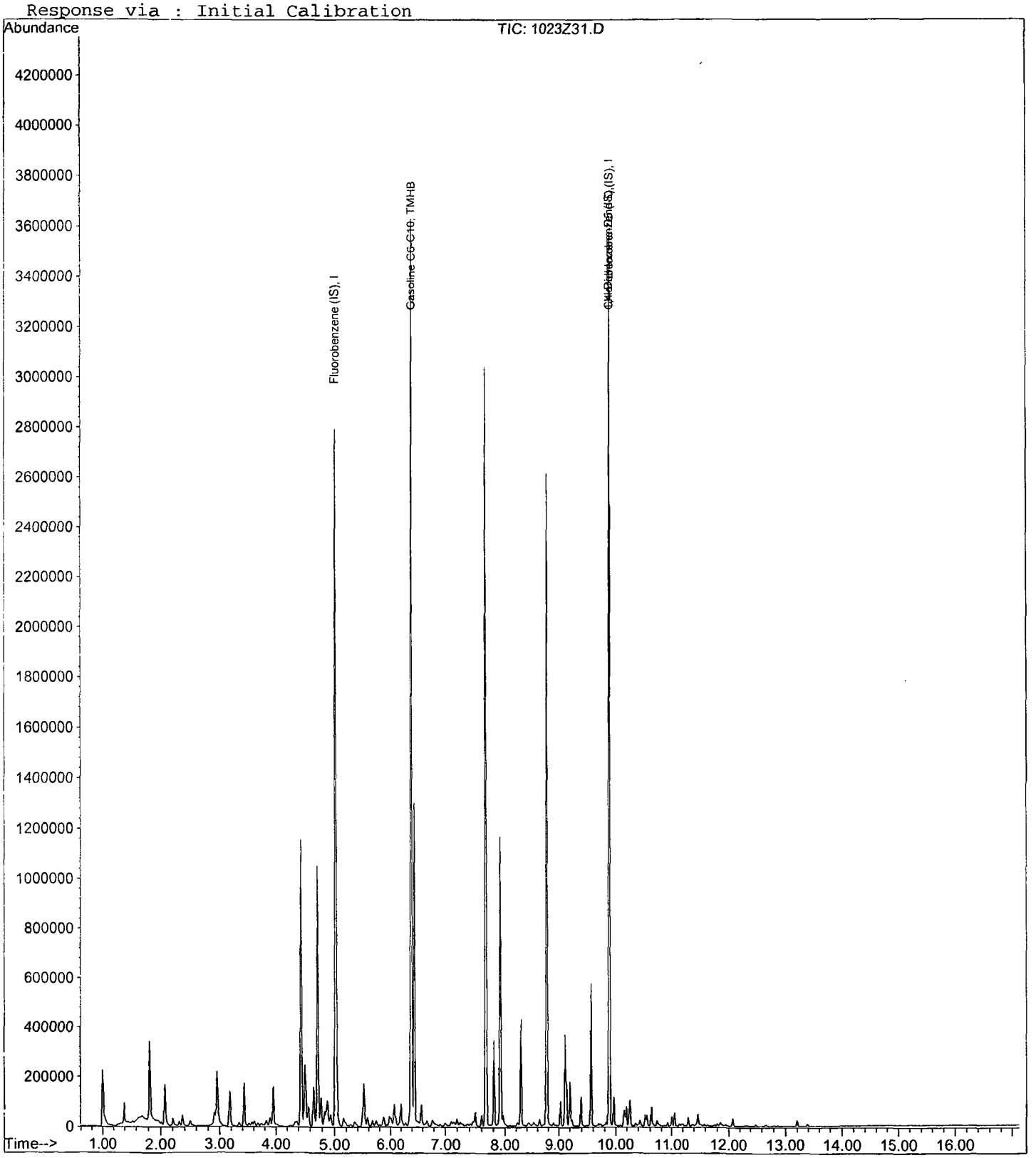
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z31.D
Acq On : 23 Oct 20 23:37
Sample : (SS)300ug/L GAS STD 10/23/20
Misc :

Vial: 26
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:22 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/24/20
Instrument: ZEUS
Initial Cal. Date: 10/23/20
Data File: 1023Z35.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	2.932	1.075	63	TMHBL	3.8
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
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39							
40							
		Average			63.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/24/20
Instrument: ZEUS
Initial Cal. Date: 10/23/20
Data File: 1023Z35.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.2624	0.2678	2.1	S	
3	S	1,2-DCA-D4(S)	0.2483	0.2434	2.0	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	S	Toluene-D8(S)	1.260	1.315	4.4	S	
6	S	4-Bromofluorobenzene(S)	0.4793	0.4824	0.64	S	
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
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40							
		Average			2.3		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z35.D
Acq On : 24 Oct 20 01:09
Sample : 201023A CCV 300ug/L
Misc :

Vial: 30
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:31 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2749052	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3593324	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3593324	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.39	TIC	35460307m	288.65	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z35.D Vial: 30
Acq On : 24 Oct 20 01:09 Operator: LP,DG,CH
Sample : 201023A CCV 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:27 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2160006	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1612762	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	934516	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	578422	25.51	ppb	0.00
Spiked Amount 25.000			Recovery =	102.052%		
3) 1,2-DCA-D4(S)	4.72	65	525656	24.50	ppb	0.00
Spiked Amount 25.000			Recovery =	97.996%		
5) Toluene-D8(S)	6.39	98	2121462	26.11	ppb	0.00
Spiked Amount 25.000			Recovery =	104.428%		
6) 4-Bromofluorobenzene(S)	8.77	95	778025	25.16	ppb	0.00
Spiked Amount 25.000			Recovery =	100.640%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

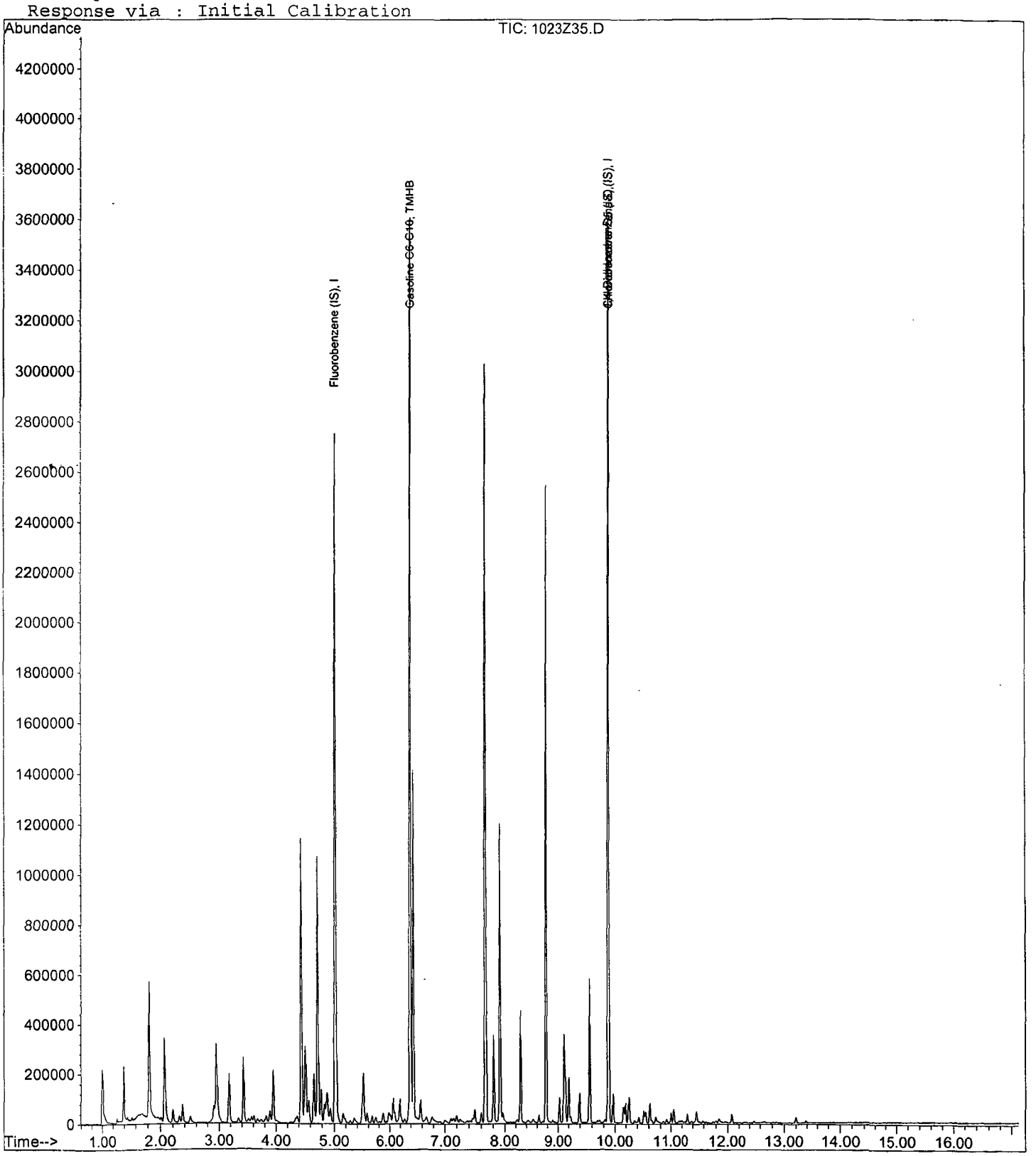
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z35.D
Acq On : 24 Oct 20 01:09
Sample : 201023A CCV 300ug/L
Misc :

Vial: 30
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 10:31 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/24/20
Instrument: ZEUS
Initial Cal. Date: 10/23/20
Data File: 1023Z53.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	2.932	1.055	64	TMHBL	8.3
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
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38							
39							
40							
		Average			64.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: water

SDG No:
Date Analyzed: 10/24/20
Instrument: ZEUS
Initial Cal. Date: 10/23/20
Data File: 1023Z53.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.2624	0.2548	2.9	S	
3	S	1,2-DCA-D4(S)	0.2483	0.2468	0.63	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	S	Toluene-D8(S)	1.260	1.377	9.3	S	
6	S	4-Bromofluorobenzene(S)	0.4793	0.5078	5.9	S	
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
8							
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40							
		Average			4.7		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z53.D Vial: 48
Acq On : 24 Oct 20 08:04 Operator: LP,DG,CH
Sample : Ending CCV 300ug/L 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:27 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2260598	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	2783621	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	2783621	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.38	TIC	28627308m	275.15	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z53.D Vial: 48
Acq On : 24 Oct 20 08:04 Operator: LP,DG,CH
Sample : Ending CCV 300ug/L 10/23/20 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:28 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	1799560	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1279223	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	672720	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	458477	24.27	ppb	0.00
Spiked Amount 25.000			Recovery =	97.092%		
3) 1,2-DCA-D4(S)	4.72	65	444091	24.84	ppb	0.00
Spiked Amount 25.000			Recovery =	99.376%		
5) Toluene-D8(S)	6.38	98	1761631	27.33	ppb	0.00
Spiked Amount 25.000			Recovery =	109.324%		
6) 4-Bromofluorobenzene(S)	8.77	95	649570	26.48	ppb	0.00
Spiked Amount 25.000			Recovery =	105.932%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

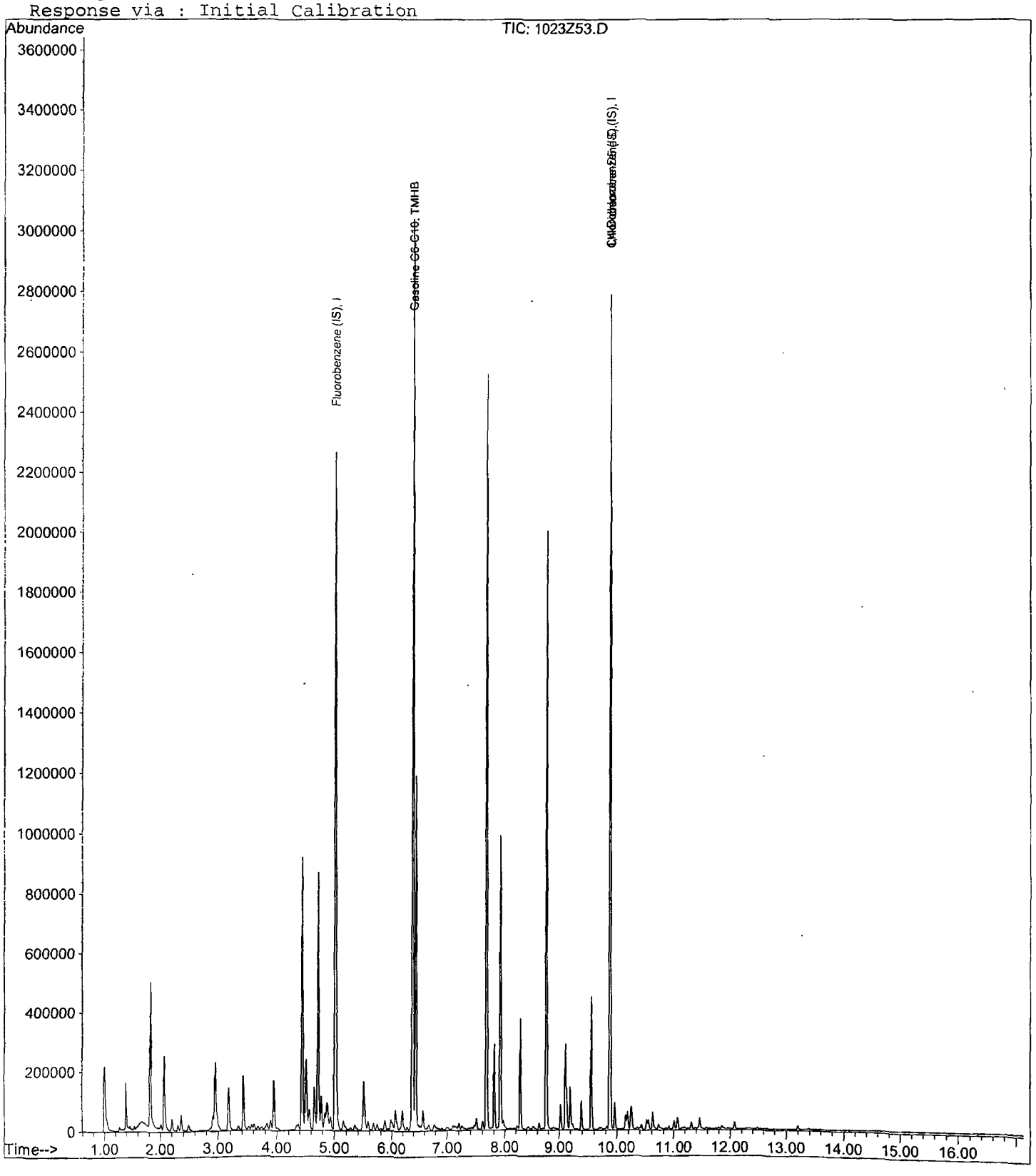
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z53.D
Acq On : 24 Oct 20 08:04
Sample : Ending CCV 300ug/L 10/23/20
Misc :

Vial: 48
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 11:27 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z46.D Vial: 41
Acq On : 24 Oct 20 05:23 Operator: LP,DG,CH
Sample : BA20485W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:25 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2285211	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	2855081	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	2855081	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z46.D Vial: 41
Acq On : 24 Oct 20 05:23 Operator: LP,DG,CH
Sample : BA20485W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:28 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	1799072	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1327153	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	697091	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	486995	25.79	ppb	0.00
Spiked Amount 25.000			Recovery =	103.160%		
3) 1,2-DCA-D4(S)	4.72	65	452461	25.32	ppb	0.00
Spiked Amount 25.000			Recovery =	101.276%		
5) Toluene-D8(S)	6.38	98	1794967	26.84	ppb	0.00
Spiked Amount 25.000			Recovery =	107.372%		
6) 4-Bromofluorobenzene(S)	8.77	95	664698	26.12	ppb	0.00
Spiked Amount 25.000			Recovery =	104.484%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

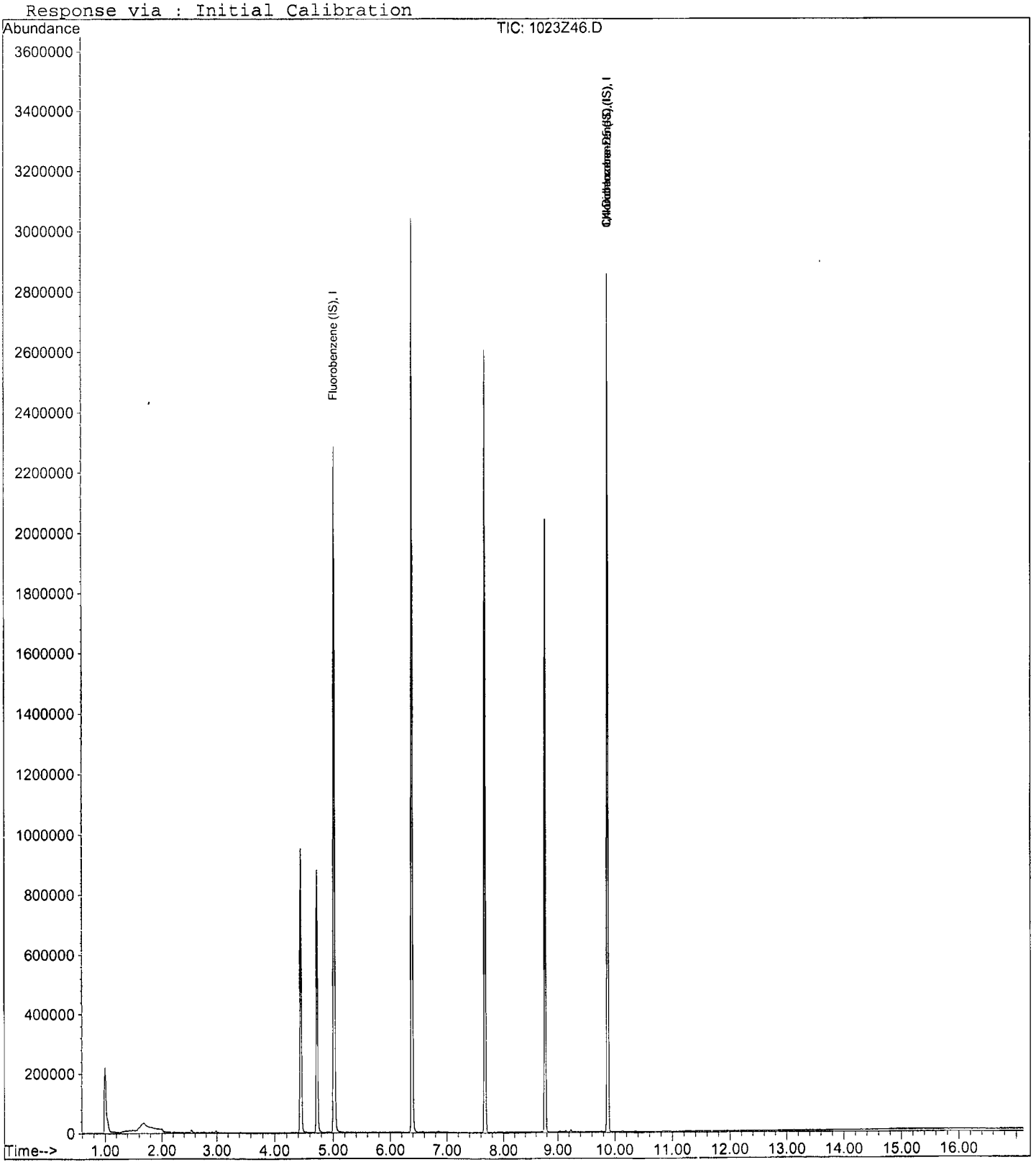
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z46.D
Acq On : 24 Oct 20 05:23
Sample : BA20485W01
Misc :

Vial: 41
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 11:25 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z47.D Vial: 42
Acq On : 24 Oct 20 05:46 Operator: LP,DG,CH
Sample : BA20486W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:25 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2248362	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	2847417	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	2847417	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z47.D Vial: 42
Acq On : 24 Oct 20 05:46 Operator: LP,DG,CH
Sample : BA20486W01 Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:28 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	1781497	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1303386	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	683330	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	478241	25.58	ppb	0.00
Spiked Amount 25.000			Recovery =	102.304%		
3) 1,2-DCA-D4(S)	4.72	65	442284	24.99	ppb	0.00
Spiked Amount 25.000			Recovery =	99.972%		
5) Toluene-D8(S)	6.38	98	1759677	26.79	ppb	0.00
Spiked Amount 25.000			Recovery =	107.180%		
6) 4-Bromofluorobenzene(S)	8.77	95	649839	26.00	ppb	0.00
Spiked Amount 25.000			Recovery =	104.012%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

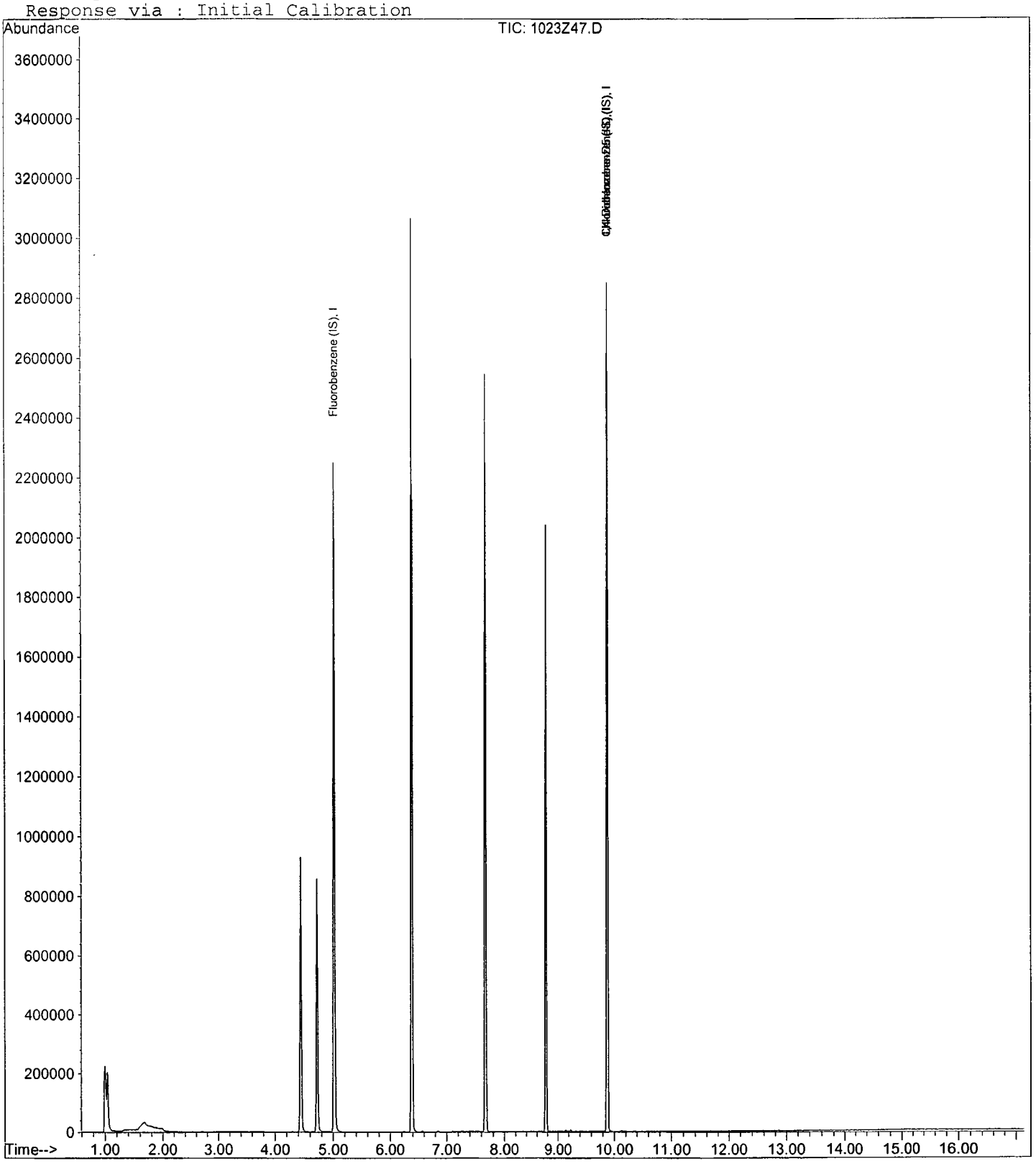
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z47.D
Acq On : 24 Oct 20 05:46
Sample : BA20486W01
Misc :

Vial: 42
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 11:25 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z38.D Vial: 33
Acq On : 24 Oct 20 02:18 Operator: LP,DG,CH
Sample : 201023A BLK Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:24 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2539722	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3393779	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3393779	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z38.D Vial: 33
Acq On : 24 Oct 20 02:18 Operator: LP,DG,CH
Sample : 201023A BLK Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:27 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2010663	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1515461	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	869793	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	556307	26.36	ppb	0.00
Spiked Amount 25.000			Recovery =	105.440%		
3) 1,2-DCA-D4(S)	4.72	65	505704	25.32	ppb	0.00
Spiked Amount 25.000			Recovery =	101.280%		
5) Toluene-D8(S)	6.38	98	1985688	26.01	ppb	0.00
Spiked Amount 25.000			Recovery =	104.020%		
6) 4-Bromofluorobenzene(S)	8.77	95	749243	25.79	ppb	0.00
Spiked Amount 25.000			Recovery =	103.140%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

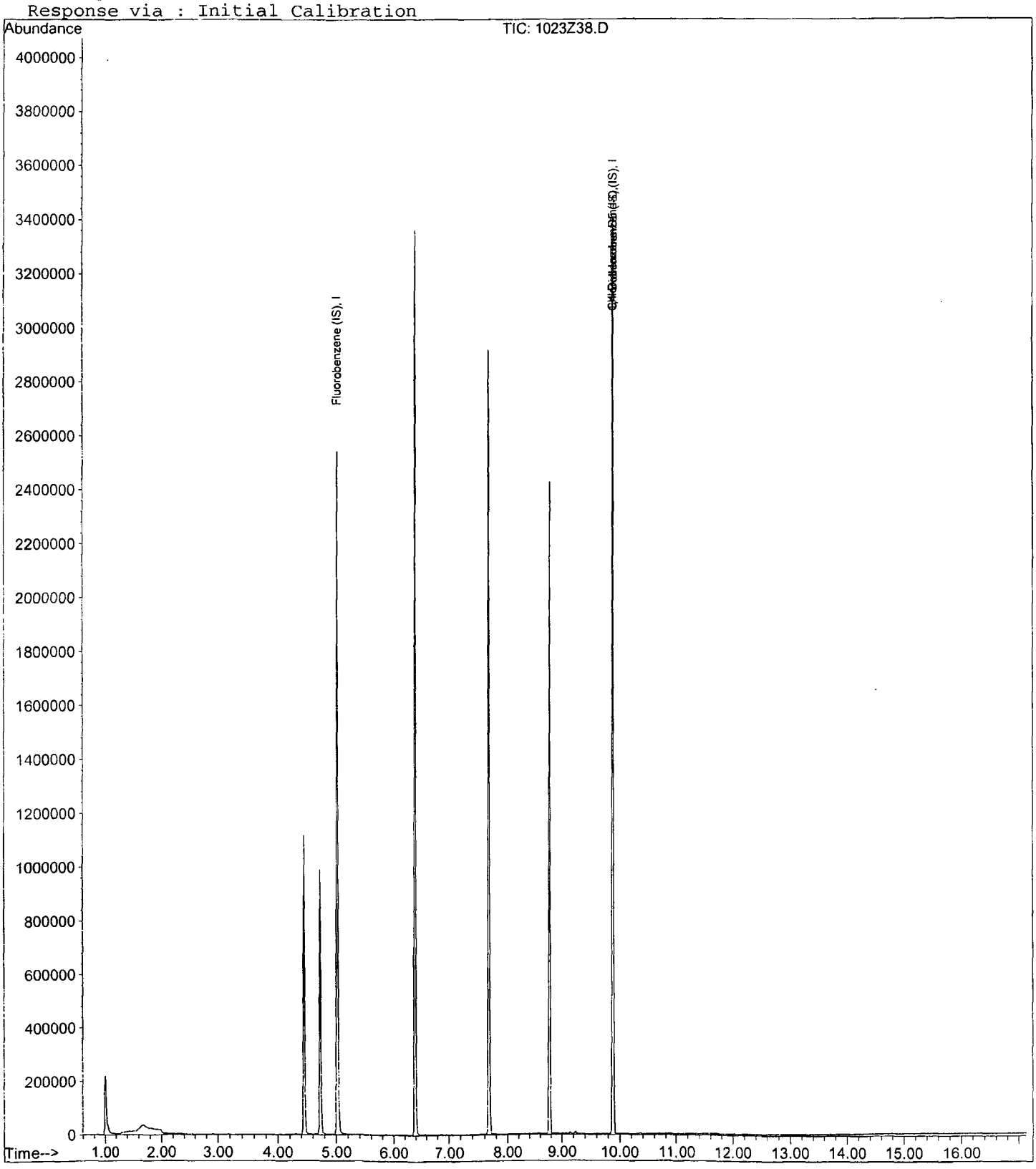
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z38.D
Acq On : 24 Oct 20 02:18
Sample : 201023A BLK
Misc :

Vial: 33
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 11:24 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z36.D Vial: 31
Acq On : 24 Oct 20 01:32 Operator: LP,DG,CH
Sample : 201023A LCS 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:33 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2706800	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3481092	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3481092	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	6.39	TIC	34378539m	277.28	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z36.D Vial: 31
Acq On : 24 Oct 20 01:32 Operator: LP,DG,CH
Sample : 201023A LCS 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:27 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2109141	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1579945	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	906449	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	561057	25.34	ppb	0.00
Spiked Amount 25.000			Recovery =	101.376%		
3) 1,2-DCA-D4(S)	4.72	65	515538	24.61	ppb	0.00
Spiked Amount 25.000			Recovery =	98.428%		
5) Toluene-D8(S)	6.39	98	2062166	25.90	ppb	0.00
Spiked Amount 25.000			Recovery =	103.616%		
6) 4-Bromofluorobenzene(S)	8.77	95	763674	25.21	ppb	0.00
Spiked Amount 25.000			Recovery =	100.836%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

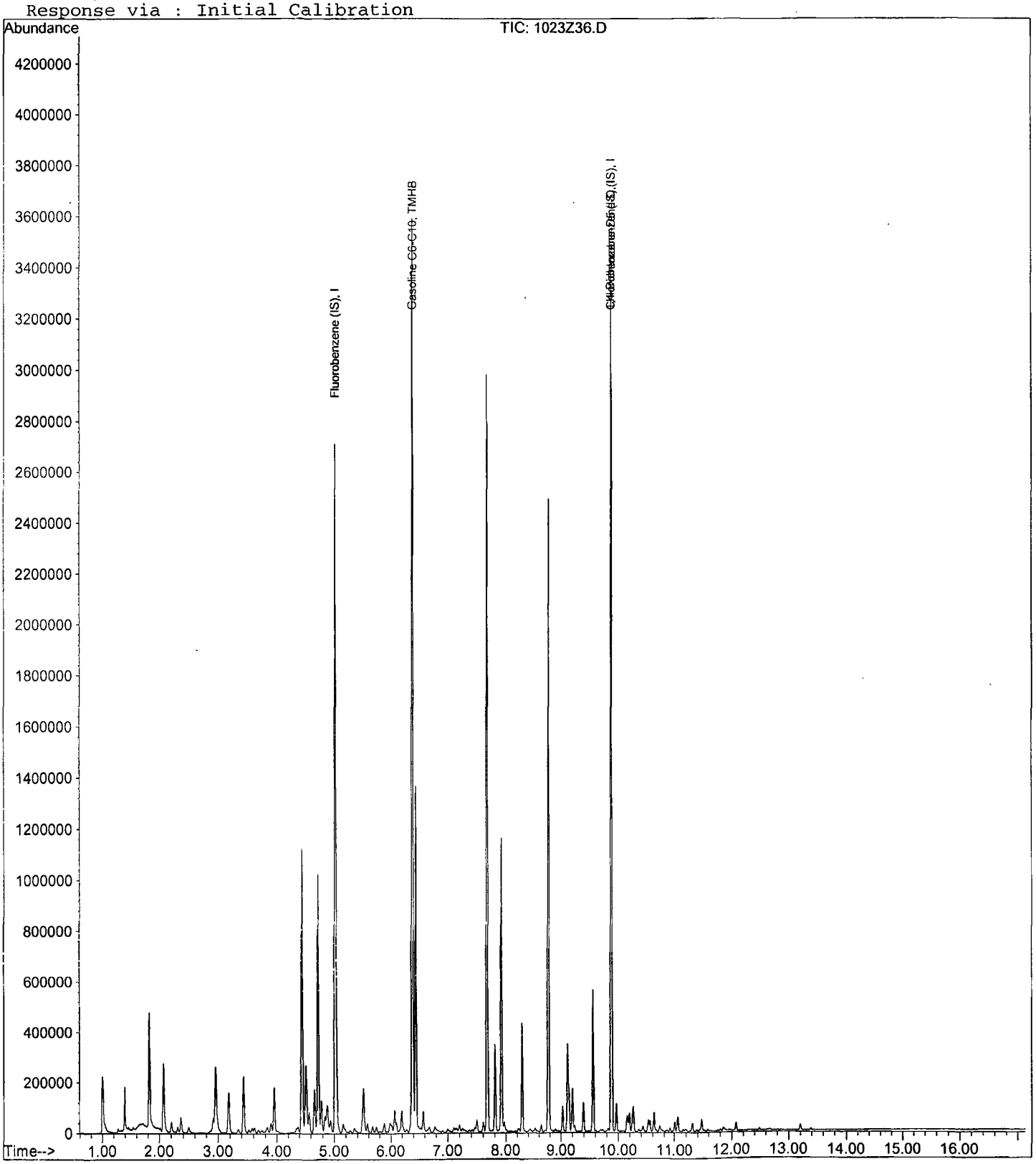
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z36.D
Acq On : 24 Oct 20 01:32
Sample : 201023A LCS 300ug/L
Misc :

Vial: 31
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 11:33 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z37.D Vial: 32
Acq On : 24 Oct 20 01:55 Operator: LP,DG,CH
Sample : 201023A LCSD 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:34 2020 Quant Results File: ZGAS1023.RES

Quant Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	TIC	2674172	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.88	TIC	3484767	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.88	TIC	3484767	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	6.38	TIC	34018495m	278.45	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\201023\1023Z37.D Vial: 32
Acq On : 24 Oct 20 01:55 Operator: LP,DG,CH
Sample : 201023A LCSD 300ug/L Inst : ZEUS
Misc : Multiplr: 1.00

Quant Time: Oct 27 11:27 2020 Quant Results File: ZSUR23.RES

Quant Method : M:\ZEUS\DATA\201023\ZSUR23.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 26 12:12:53 2020
Response via : Initial Calibration
DataAcq Meth : 102320_EST_TEST.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.02	96	2080916	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	7.67	117	1553499	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	9.88	152	891433	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.44	111	556440	25.48	ppb	0.00
Spiked Amount 25.000			Recovery = 101.904%			
3) 1,2-DCA-D4(S)	4.72	65	507860	24.57	ppb	0.00
Spiked Amount 25.000			Recovery = 98.280%			
5) Toluene-D8(S)	6.38	98	2035402	26.00	ppb	0.00
Spiked Amount 25.000			Recovery = 104.012%			
6) 4-Bromofluorobenzene(S)	8.77	95	749456	25.16	ppb	0.00
Spiked Amount 25.000			Recovery = 100.644%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

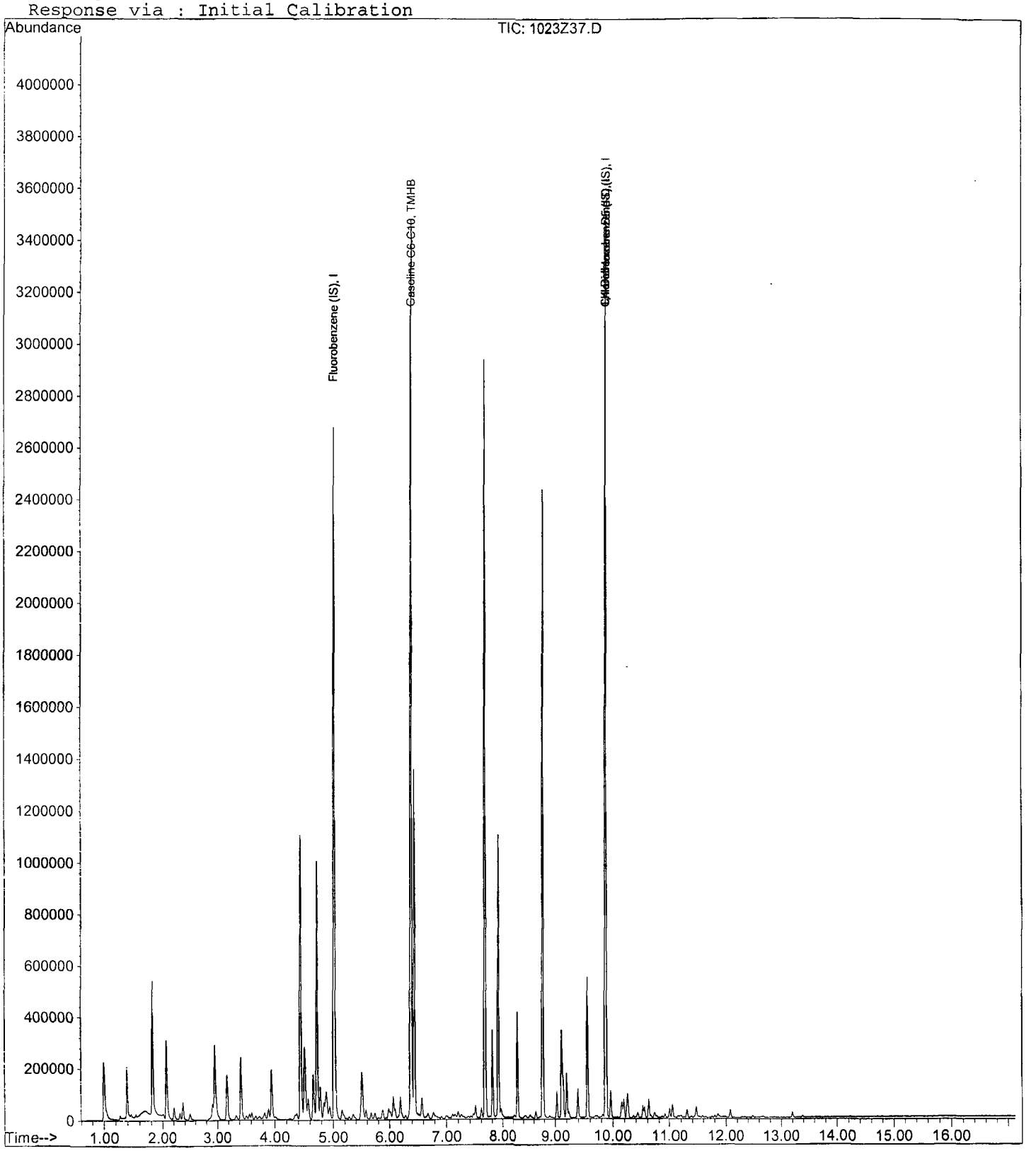
Quantitation Report

Data File : M:\ZEUS\DATA\201023\1023Z37.D
Acq On : 24 Oct 20 01:55
Sample : 201023A LCSD 300ug/L
Misc :

Vial: 32
Operator: LP,DG,CH
Inst : ZEUS
Multiplr: 1.00

Quant Time: Oct 27 11:34 2020 Quant Results File: ZGAS1023.RES

Method : M:\ZEUS\DATA\201023\ZGAS1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Oct 27 10:18:06 2020
Response via : Initial Calibration



Zeus 8260 Water Calibration Curve

0.3ug/L

Prepared By (Initials): CH

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.3ug/L	5	Prepared 10/18/20	12/17/20	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	5uL			5
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	2.5uL			5
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	2uL			10

0.5ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.5ug/L	5	Prepared 10/18/20	12/17/20	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	10uL			10
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	5uL			10
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	5uL			25

1.0ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	1.0ug/L	5	Prepared 10/18/20	12/17/20	N/A	10uL	50mL	P&T Water	1
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	20uL			20
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	10uL			20
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	10uL			50

2.0ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	2.0ug/L	5	Prepared 10/18/20	12/17/20	N/A	20uL	50mL	P&T Water	2
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	30uL			30
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	15uL			30
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	15uL			75

5ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 10/18/20	12/17/20	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	5uL			5
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	40uL			40
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	20uL			100

10ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 10/18/20	12/17/20	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	10uL			10
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	50uL			50
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	25uL			50
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	25uL			125

20ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 10/18/20	12/17/20	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	20uL			20
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	60uL			60
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	30uL			60
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	30uL			150

40ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 10/18/20	12/17/20	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	40uL			40
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	80uL			80
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	40uL			80
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	35uL			175

100ug/L

Prepared: 10/23/20

Expires: 11/04/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 10/18/20	12/17/20	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 10/18/20	11/04/20	N/A	100uL			100
VOA STD. 1	Absolute		50	Prepared 10/18/20	12/17/20	N/A	100uL			100
VOA STD. 2	Phenova		100	Prepared 10/18/20	12/17/20	N/A	50uL			100
VOA STD. TBA	Various		250	Prepared 10/18/20	11/04/20	N/A	40uL			200

Zeus 8260 Water Second Source (SS)

Prepared: 10/23/20

Expires: 11/04/20

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 3	Phenova	8260 Water SS	100	Prepared 10/18/20	12/17/20	N/A	25uL	50mL	P&T Water	50
VOA STD. GASES	Phenova	8260 Water SS	50	Prepared 10/18/20	12/17/20	N/A	10uL			10
VOA STD. 0	Phenova	8260 Water SS	50	Prepared 10/18/20	12/17/20	N/A	10uL			10
VOA STD. 2-CEVE	Absolute	8260 Water SS	50	Prepared 10/18/20	10/18/20	N/A	50uL			50
VOA STD. 6	Various	8260 Water SS	50	Prepared 10/18/20	11/04/20	N/A	10uL			10
Voa STD. TBA	Various	8260 Water SS	250	Prepared 10/18/20	11/04/20	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)

Prepared: 10/23/20

Expires: 10/24/20

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 10/18/20	12/17/20	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 10/18/20	11/04/20	N/A	10uL			10
VOA STD. 1	Absolute	CCV/ LCS	50	Prepared 10/18/20	12/17/20	N/A	50uL			50
VOA STD. 2	Phenova	CCV/ LCS	100	Prepared 10/18/20	12/17/20	N/A	25uL			50
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 10/18/20	11/04/20	N/A	25uL			125

Primary and Secondary Working Standards

Primary Standards

VOA STD 7

Prepared: 10/18/20 A
Expires: 12/17/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses STD	Phenova	ALO-101206	2,000	CL14506-50819	10/18/21	10/31/24	100uL	4mL	Methanol	50
Hexachloroethane	Absolute	70199	1,000	091818-50780	10/18/21	09/18/23	200uL			50
Benzyl Chloride	Accusta	M-8010-01	1,000	042420-50798	10/18/21	04/24/21	200uL			50

VOA STD 8

Prepared: 10/18/20 B
Expires: 11/04/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Additions STD	Phenova	ALO-130175	2,000	CL15724-50830	10/18/21	09/30/22	100uL	4mL	Methanol	50
502.2 Cal. Std.	Phenova	ALO-101200	2,000	CL14379-50555	10/18/21	10/31/24	100uL			50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL15886-50944	10/10/21	11/04/20	100uL			50

VOA STD TBA

Prepared: 10/18/20 C
Expires: 11/04/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOC Mix	Phenova	ALO-130176	2,000	CL15725-50774	10/18/21	09/30/23	500uL	4mL	Methanol	250
Acrolein	Phenova	ALO-130549	10,000	CL15890-50946	10/10/21	11/04/20	100uL			250

VOA STD 1

Prepared: 10/18/20 D
Expires: 12/17/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE	Absolute	82408	2,000	121119-50901	10/18/21	12/11/22	50	2mL	Methanol	50

VOA STD 2

Prepared: 10/18/20 E
Expires: 12/17/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Std.	Phenova	ALO-109211	2,000	CL12730-50632	10/18/21	08/31/28	100	4mL	Methanol	50

VOA STD 9

Prepared: 10/18/20 F
Expires: 12/17/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 7		VOA STD. 9	50	Prepared 10/18/20	10/18/21	N/A	200uL	2mL	Methanol	5
VOA STD. 8			50	Prepared 10/18/20	10/18/21	N/A	200uL			5

VOA STD. 10

Prepared: 10/18/20 G
Expires: 12/17/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 1		VOA STD. 10	50	Prepared 10/18/20	10/18/21	N/A	200uL	2mL	Methanol	5

VOA STD. 12

Prepared: 10/18/20 H
Expires: 12/17/20
Prepared By (Initials): CH
Methanol Lot No. DW117-US-0095

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA STD. 2		VOA STD. 12	50	Prepared 10/18/20	10/18/21	N/A	200uL	2mL	Methanol	5

Second Source (SS) Standards

VOA STD. 3

Prepared: 10/18/20 I
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Ketones Standard	Phenova	ALO-101211	2,000	CL13994-50636	10/18/21	08/31/29	50uL	2mL	Methanol	50

VOA STD. Gases

Prepared: 10/18/20 J
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
8260 Gases (SS)	Phenova	ALO-101206	2,000	CL14505-50824	10/18/21	10/31/24	50uL	2mL	Methanol	50

VOA STD. 6

Prepared: 10/18/20 K
Expires: 11/04/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
502.2 Calibration STD. (54-compounds)	Phenova	ALO-101200	2,000	CL14381-50562	10/18/21	10/31/24	50uL	2mL	Methanol	50
Vinyl Acetate	Phenova	ALO-101228	2,000	CL15886-50945	10/10/21	11/04/20	50uL			50
Hexachloroethane	Accustan	AS-E0011	1,000	219061767-50955	10/18/21	06/28/29	100uL			50
Benzyl Chloride	Accustan	M-8010-01	200	219111303-50803	10/18/21	12/25/21	500uL			50

VOA STD. TBA

Prepared: 10/18/20 L
Expires: 11/04/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Custom VOA Mix (4-3)	Phenova	ALO-130176	2,000	CL12929-50567	10/18/21	11/30/20	250uL	2mL	Methanol	250
Acrolein	Phenova	ALO-101224	10,000	CL15890-50947	10/10/21	11/04/20	50uL			250

VOA STD. 0

Prepared: 10/18/20 M
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Addition STD.	Phenova	ALO-130175	2,000	CL14058-50580	10/18/21	08/31/21	50uL	2mL	Methanol	50

VOA STD. 2-CEVE

Prepared: 10/18/20 N
Expires: 12/17/20
Methanol Lot No. DW117-US-0095

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
2-CEVE (SS)	Absolute	82408	2,000	011320-50896	10/18/21	01/13/23	50uL	2mL	Methanol	50

Zeus Gas Standard Prep

Gas Primary Working Standard

Prepared: 10/16/20 — **Prepared By (Initials):** CH
Expires: 01/06/21
Methanol Lot No.

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443-39859	01/06/21	12/31/24	80uL	2mL	Methanol	2,000

Gas Second Source (SS) Working Standard

Prepared: 08/20/20 — **Prepared By (Initials):** CH
Expires: 10/13/20
Methanol Lot No.

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (50,000ppm)	Phenova	ALO-101543	50,000	CL11750-40998	10/13/20	02/28/27	800uL	2mL	Methanol	2,000

Zeus Gas Calibration Curve

Prepared: 10/23/20 — **Prepared By (Initials):** CH
Expires: 12/22/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA Gasses Standards	Phenova	20ug/L	2,000	Prepared 10/16/20	01/06/21	N/A	1uL	100mL	P&T Water	20
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 10/16/20	01/06/21	N/A	2.5uL	100mL	P&T Water	50
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 10/16/20	01/06/21	N/A	5uL	100mL	P&T Water	100
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 10/16/20	01/06/21	N/A	15uL	100mL	P&T Water	300
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 10/16/20	01/06/21	N/A	30uL	100mL	P&T Water	600
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 10/16/20	01/06/21	N/A	40uL	100mL	P&T Water	800
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 10/16/20	01/06/21	N/A	50uL	100mL	P&T Water	1,000

Zeus Gas Second Source

Prepared: 10/23/20 — **Prepared By (Initials):** CH
Expires: 12/22/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
50,000ug/mL Gas STD	Phenova	SS 300ug/L	2,000	Prepared 08/20/20	10/13/20	N/A	15uL	100mL	P&T Water	300

Zeus Gas Continuing Calibrations/Lab Control Spikes

Prepared: 10/23/20 — **Prepared By (Initials):** CH
Expires: 10/24/20

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 10/16/20	01/06/21	N/A	15uL	100mL	P&T Water	300

Injection Log

Directory: M:\ZEUS\DATA\201023\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	7	1023Z12.D	1	0.3ug/L VOC STD 10/23/20		23 Oct 20 16:16
2	8	1023Z13.D	1	0.5ug/L VOC STD 10/23/20		23 Oct 20 16:39
3	9	1023Z14.D	1	1ug/L VOC STD 10/23/20		23 Oct 20 17:02
4	10	1023Z15.D	1	2ug/L VOC STD 10/23/20		23 Oct 20 17:26
5	11	1023Z16.D	1	5ug/L VOC STD 10/23/20		23 Oct 20 17:49
6	12	1023Z17.D	1	10ug/L VOC STD 10/23/20		23 Oct 20 18:12
7	13	1023Z18.D	1	20ug/L VOC STD 10/23/20		23 Oct 20 18:35
8	14	1023Z19.D	1	40ug/L VOC STD 10/23/20		23 Oct 20 18:58
9	15	1023Z20.D	1	100ug/L VOC STD 10/23/20		23 Oct 20 19:21
10	18	1023Z23.D	1	20ug/L GAS STD 10/23/20		23 Oct 20 20:31
11	19	1023Z24.D	1	50ug/L GAS STD 10/23/20		23 Oct 20 20:54
12	20	1023Z25.D	1	100ug/L GAS STD 10/23/20		23 Oct 20 21:18
13	21	1023Z26.D	1	300ug/L GAS STD 10/23/20		23 Oct 20 21:41
14	22	1023Z27.D	1	600ug/L GAS STD 10/23/20		23 Oct 20 22:04
15	23	1023Z28.D	1	800ug/L GAS STD 10/23/20		23 Oct 20 22:27
16	24	1023Z29.D	1	1000ug/L GAS STD 10/23/20		23 Oct 20 22:50
17	26	1023Z31.D	1	(SS)300ug/L GAS STD 10/23/20		23 Oct 20 23:37
18	30	1023Z35.D	1	201023A CCV 300ug/L		24 Oct 20 01:09
19	31	1023Z36.D	1	201023A LCS 300ug/L		24 Oct 20 01:32
20	32	1023Z37.D	1	201023A LCSD 300ug/L		24 Oct 20 01:55
21	33	1023Z38.D	1	201023A BLK		24 Oct 20 02:18
22	41	1023Z46.D	1	BA20485W01		24 Oct 20 05:23
23	42	1023Z47.D	1	BA20486W01		24 Oct 20 05:46
24	48	1023Z53.D	1	Ending CCV 300ug/L 10/23/20		24 Oct 20 08:04

ORGANICS

Calibration Data

RSK 175
RSK 175

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 09/14/20
Matrix: Instrument: 7890
Initials: CD

0914R07.D 0914R08.D 0914R09.D 0914R10.D 0914R11.D 0914R12.D 0914R13.D

		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q
1	ATML	Methane	31176	26056	25996	23232	23337	25358	24640				25685	10	ATM	1.000	
2	ATML	Ethane	21362	19532	19181	17082	17815	18853	18215				18863	7.3	ATM	1.000	
3	ATML	Ethene	16420	15064	15131	13510	13711	15061	14685				14797	6.6	ATM	1.000	
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0.696467

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R07.D Vial: 1
Acq On : 14 Sep 20 12:06 Operator: CD
Sample : RSK STD1 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

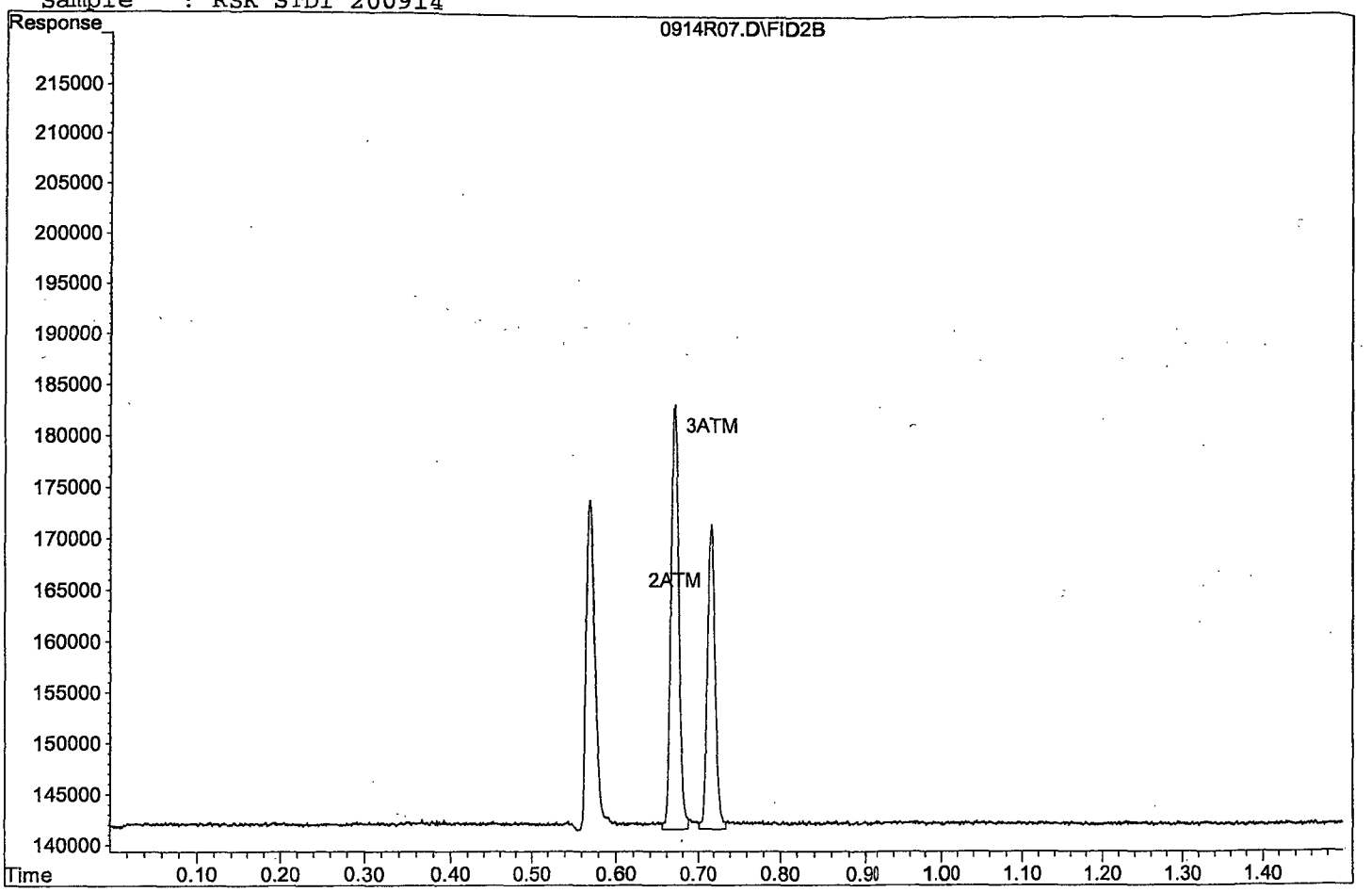
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
2) ATM Ethane	0.67	41762	102628.492 ppb
3) ATM Ethene	0.72	29966	4.139 ppb
Target Compounds			
1) ATM Methane	0.57	32423	N.D. ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R07.D
Sample : RSK STD1 200914



Quantitation Report (Not Reviewed)

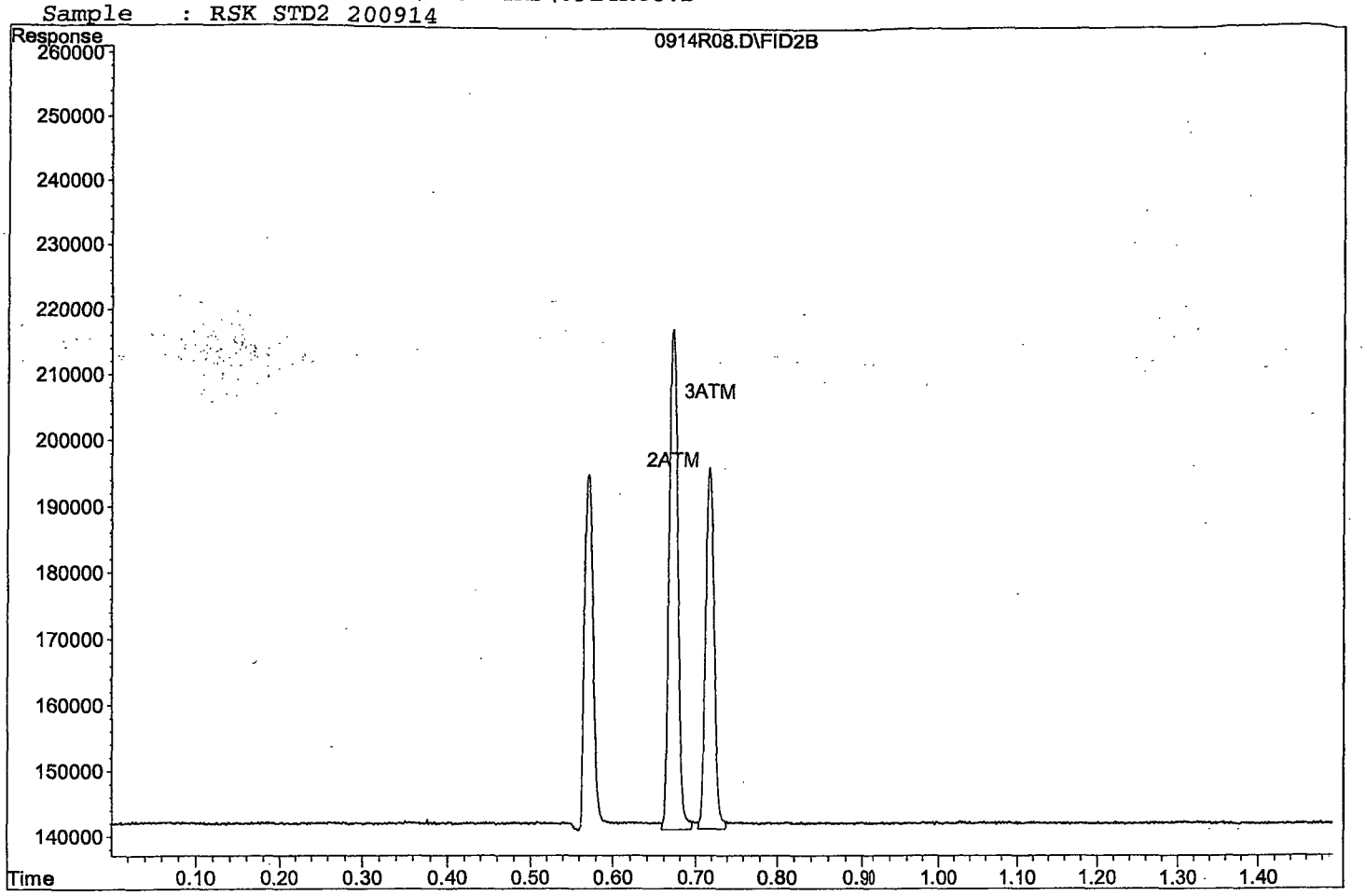
Data File : G:\ROCKY\DATA\200914RS\0914R08.D Vial: 1
Acq On : 14 Sep 20 12:10 Operator: CD
Sample : RSK STD2 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	76271	190289.144	ppb
3) ATM Ethene	0.72	54983	7.686	ppb
Target Compounds				
1) ATM Methane	0.57	54196	N.D.	ppb

Data File: G:\ROCKY\DATA\200914RS\0914R08.D
Sample : RSK STD2 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R09.D Vial: 1
Acq On : 14 Sep 20 12:13 Operator: CD
Sample : RSK STD3 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

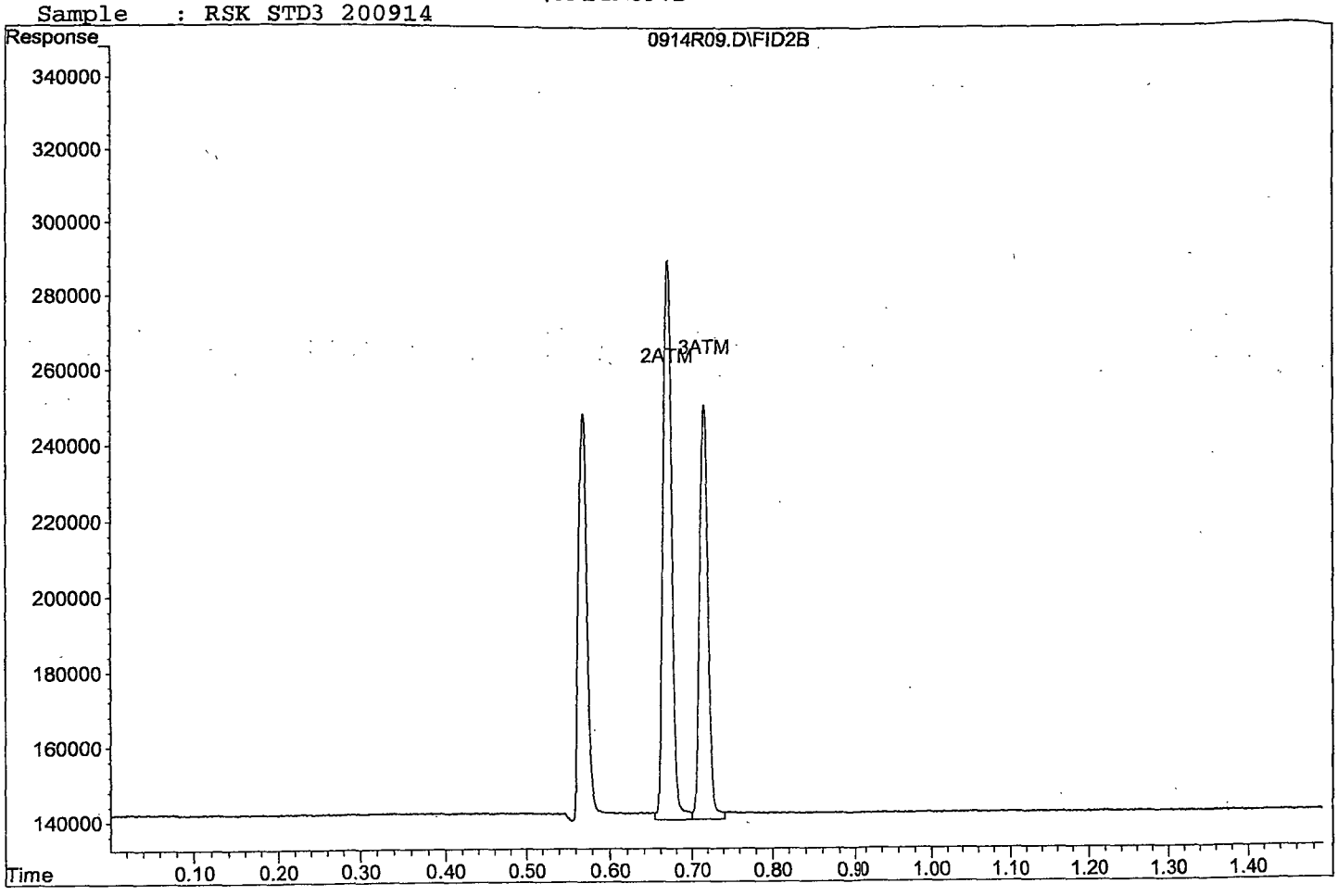
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	149612	376595.524	ppb
3) ATM Ethene	0.72	110455	15.551	ppb
Target Compounds				
1) ATM Methane	0.57	108403	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R09.D
Sample : RSK STD3 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R10.D Vial: 1
Acq On : 14 Sep 20 12:18 Operator: CD
Sample : RSK STD4 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

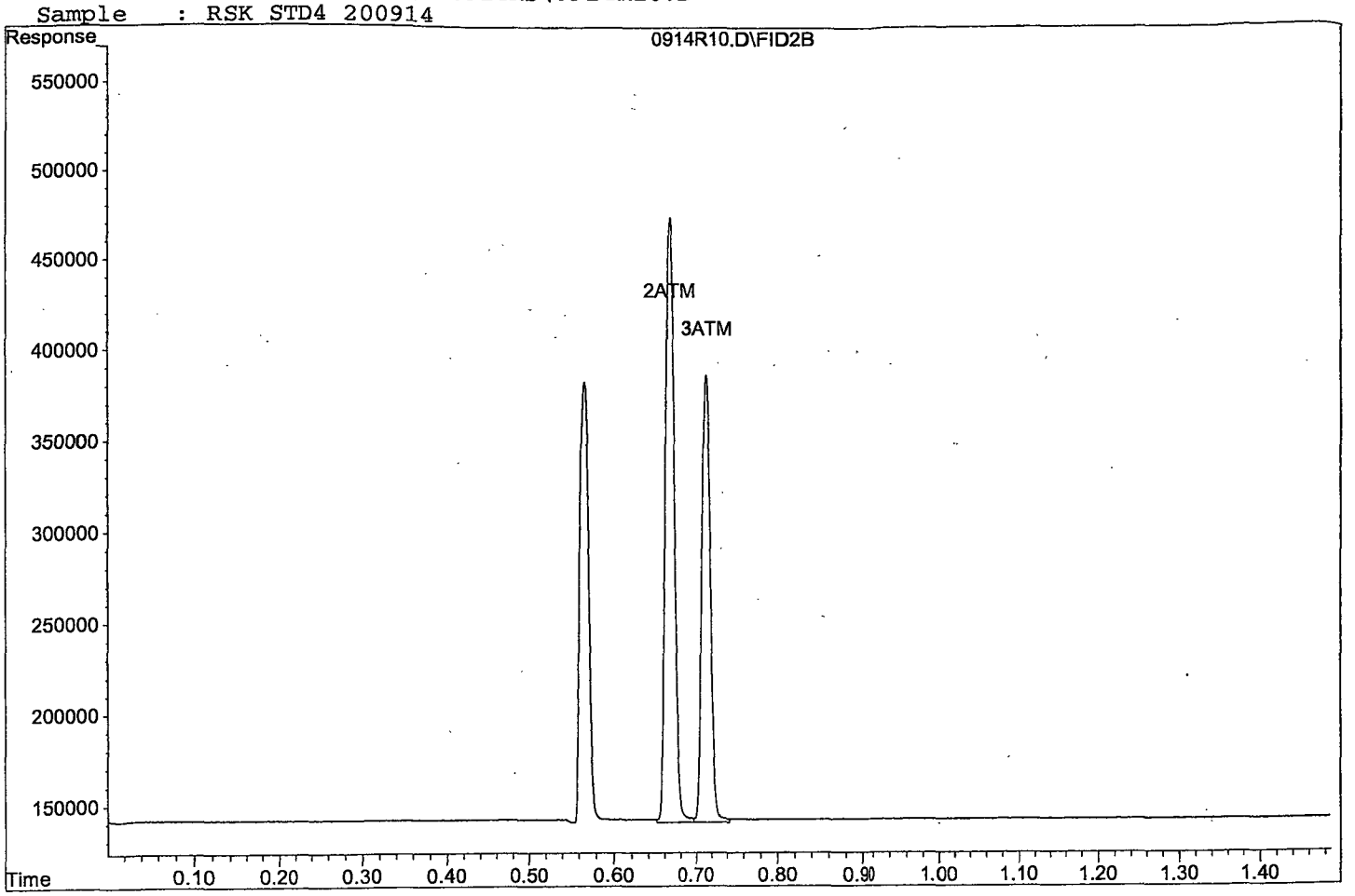
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
2) ATM Ethane	0.67	333873	844667.853 ppb
3) ATM Ethene	0.71	246286	34.810 ppb
Target Compounds			
1) ATM Methane	0.57	242197	N.D. ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R10.D
Sample : RSK STD4 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R11.D Vial: 1
Acq On : 14 Sep 20 12:21 Operator: CD
Sample : RSK STD5 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

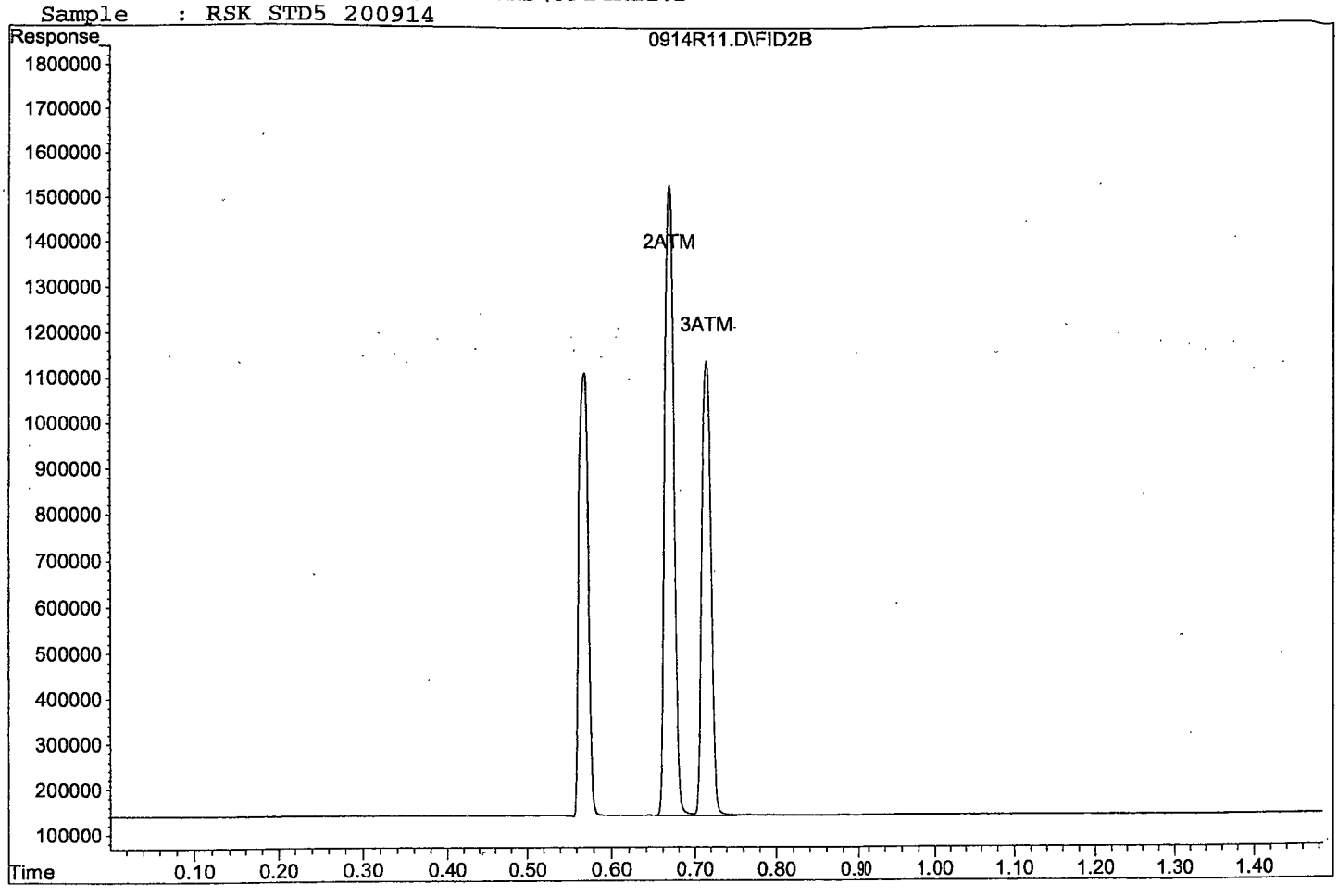
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
2) ATM Ethane	0.67	1392673	3534302.847 ppb
3) ATM Ethene	0.71	999836	141.654 ppb
Target Compounds			
1) ATM Methane	0.57	973152	N.D. ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R11.D
Sample : RSK STD5 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R12.D Vial: 1
Acq On : 14 Sep 20 12:25 Operator: CD
Sample : RSK STD6 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

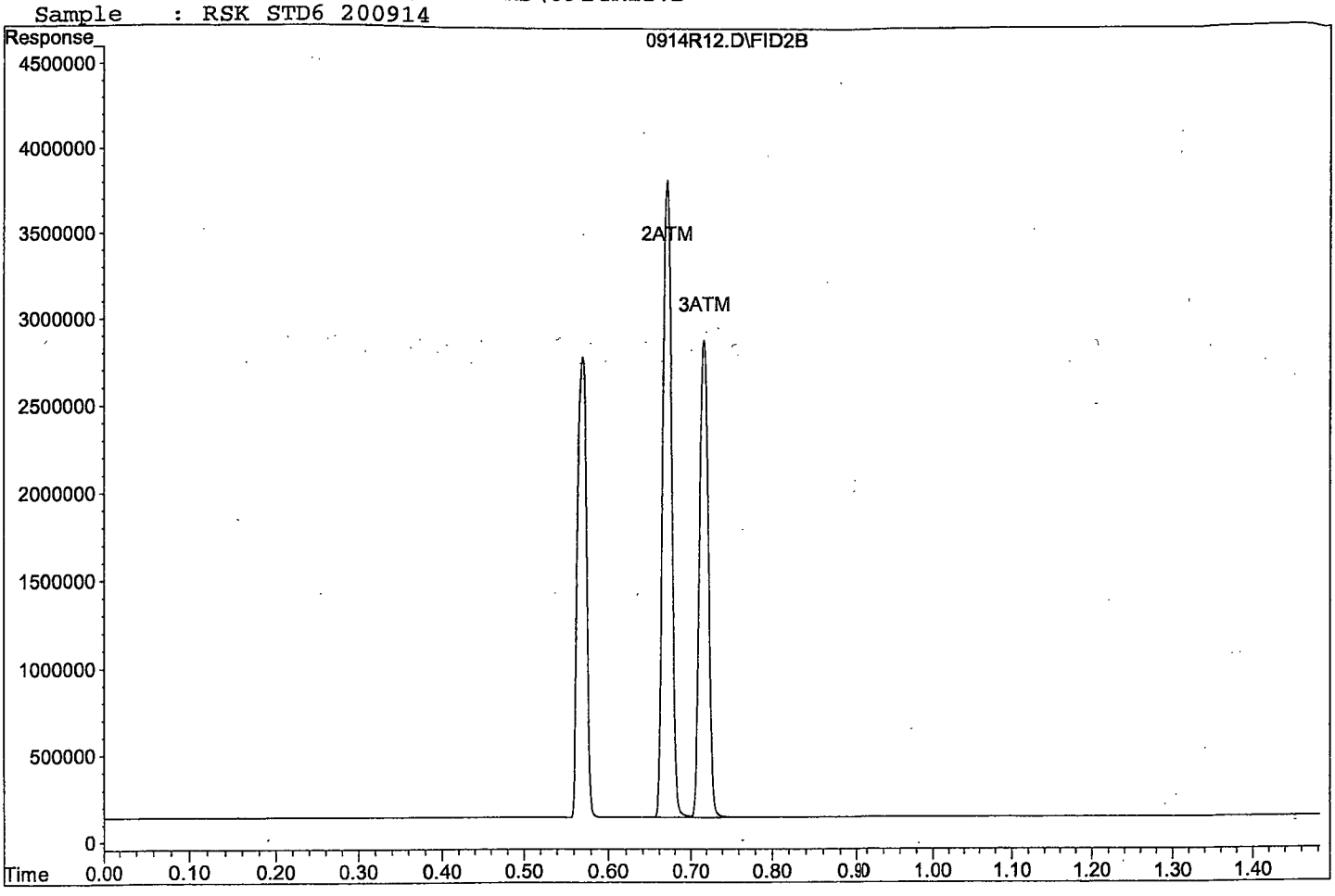
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	3684845	9357031.284	ppb
3) ATM Ethene	0.72	2745673	389.192	ppb
Target Compounds				
1) ATM Methane	0.57	2643568	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File: G:\ROCKY\DATA\200914RS\0914R12.D
Sample : RSK STD6 200914



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R13.D Vial: 1
Acq On : 14 Sep 20 12:28 Operator: CD
Sample : RSK STD7 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:38 2020 Quant Results File: RSK0914A.RES

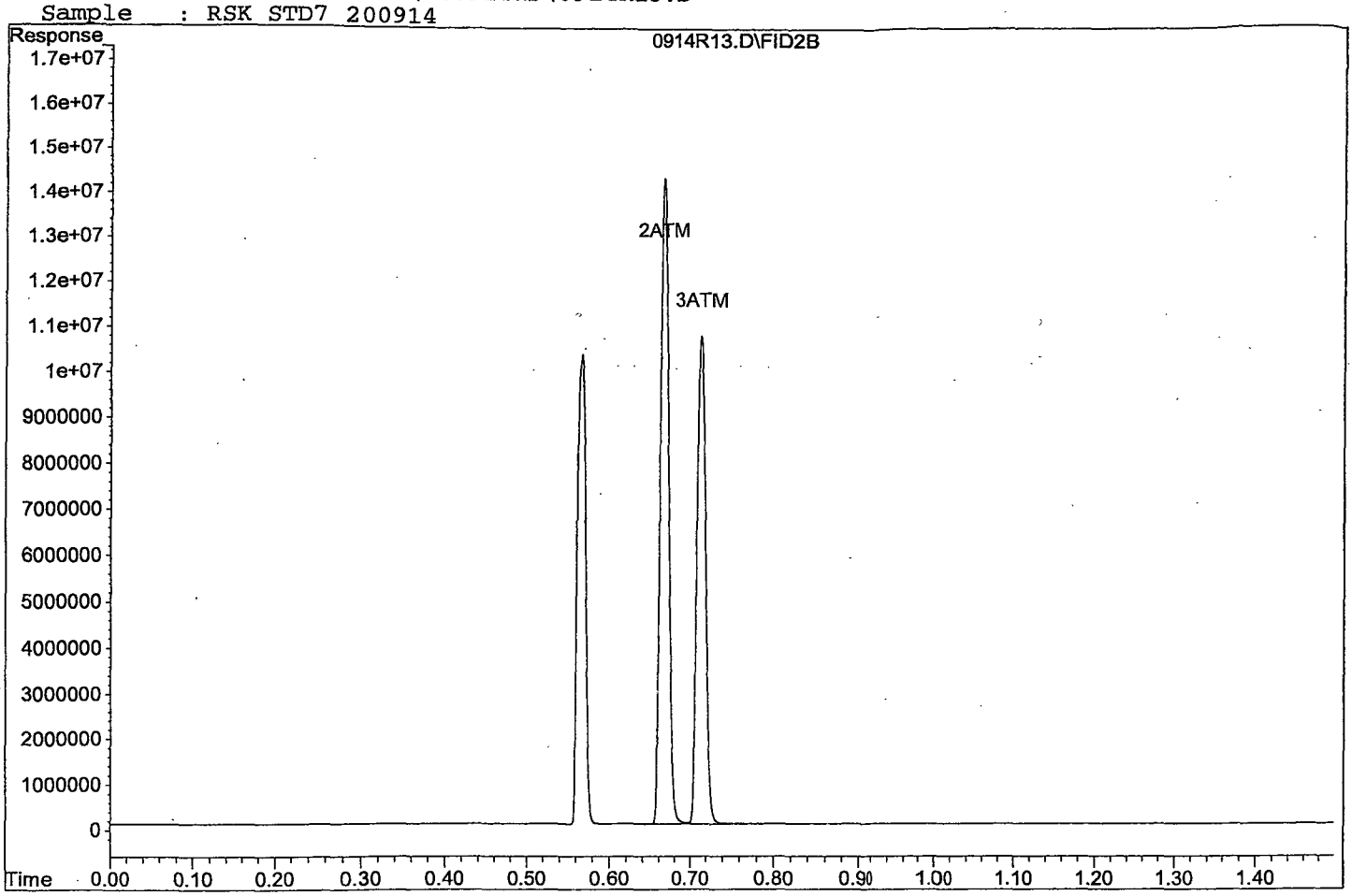
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
2) ATM Ethane	0.67	14239394	3616 8407.278	ppb
3) ATM Ethene	0.71	10708428	1518.210	ppb
Target Compounds				
1) ATM Methane	0.57	10274710	N.D.	ppb

Quantitation Report

Data File: G:\ROCKY\DATA\200914RS\0914R13.D
Sample : RSK STD7 200914



RSK 175
RSK 175

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 09/14/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 0914R14.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	25685	23394	8.9	ATML	5.2
2	ATML	Ethane	18863	17545	7.0	ATML	4.5
3	ATML	Ethene	14798	13693	7.5	ATML	6.4
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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16							
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29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			7.8		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\0914R14.D Vial: 1
Acq On : 14 Sep 20 12:32 Operator: CD
Sample : SS RSK STD5 200914 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Sep 14 12:48 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Mon Sep 14 12:40:32 2020
Response via : Multiple Level Calibration

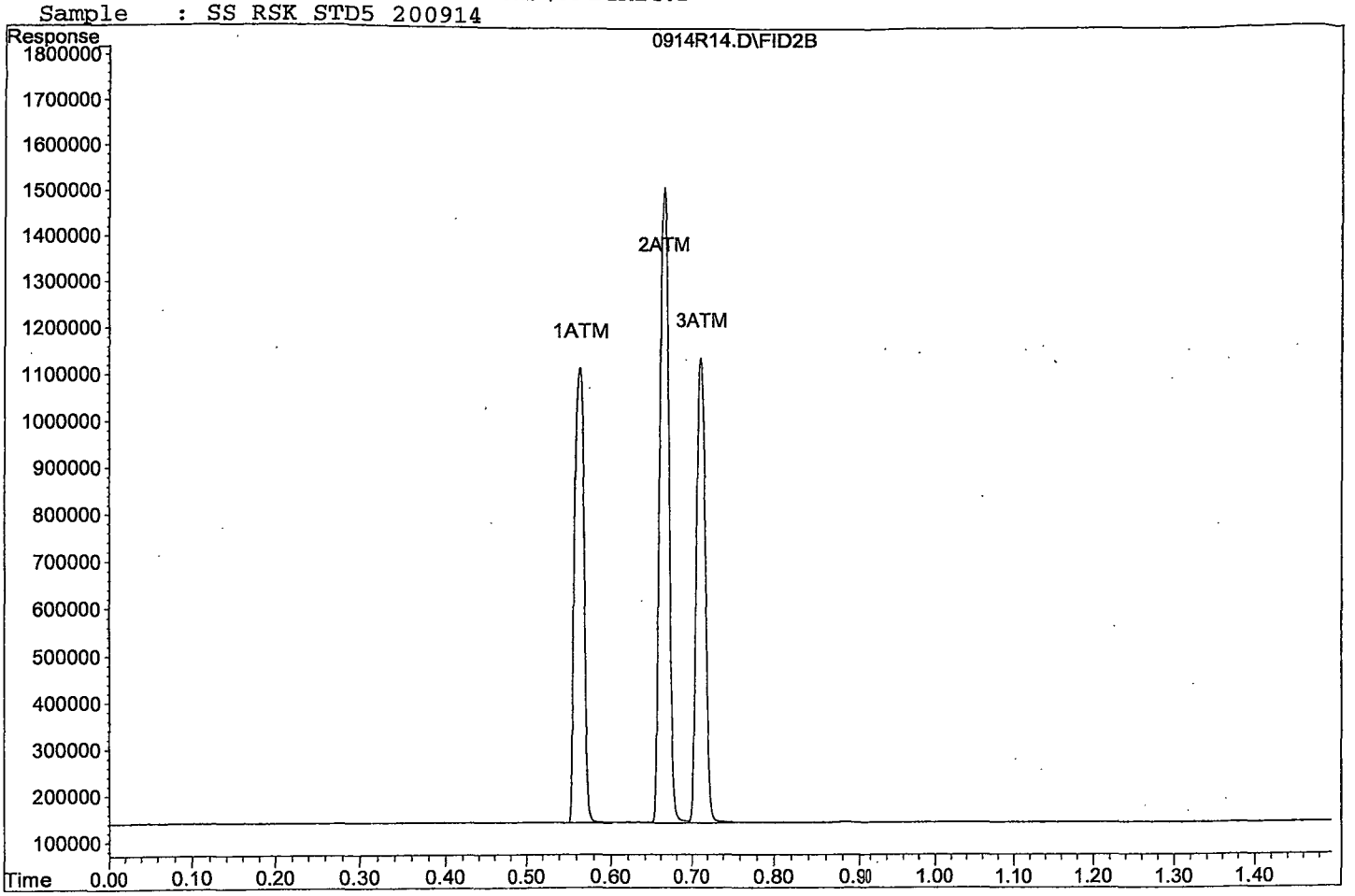
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

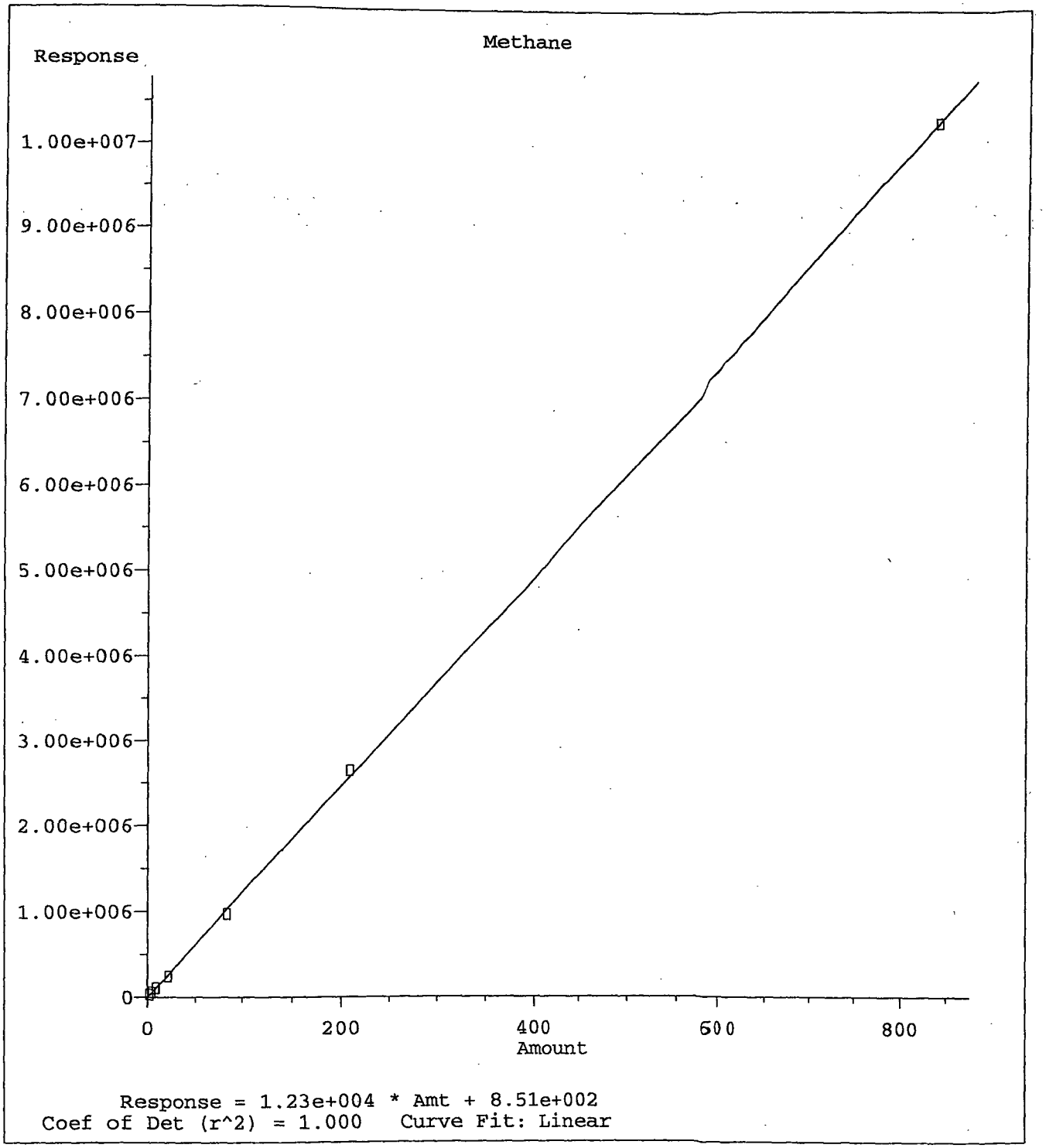
Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.56	975516	79.029 ppb
2) ATM Ethane	0.66	1371570	149.323 ppb
3) ATM Ethene	0.71	998467	136.525 ppb

Target Compounds

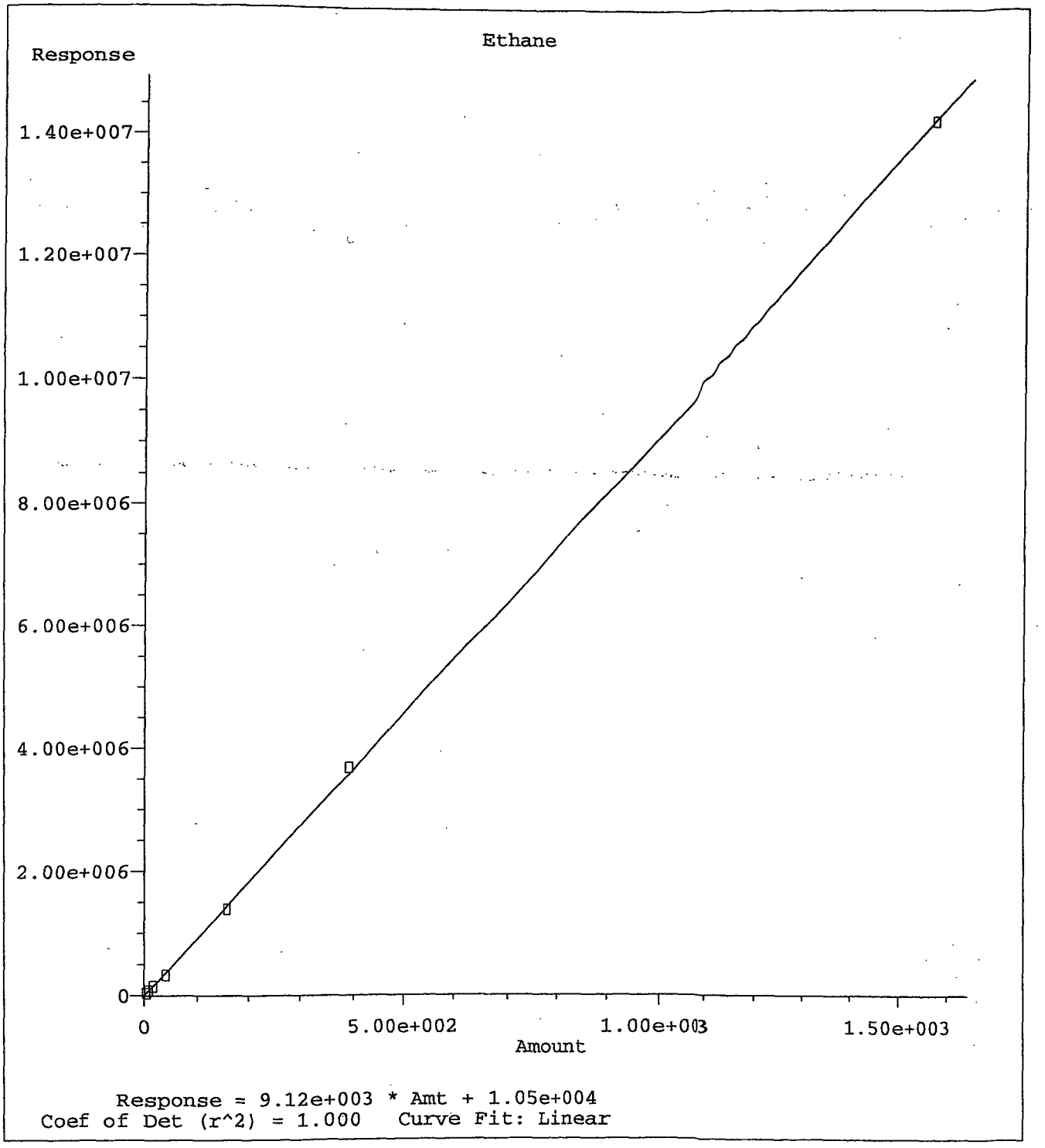
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\0914R14.D
Sample : SS RSK STD5 200914

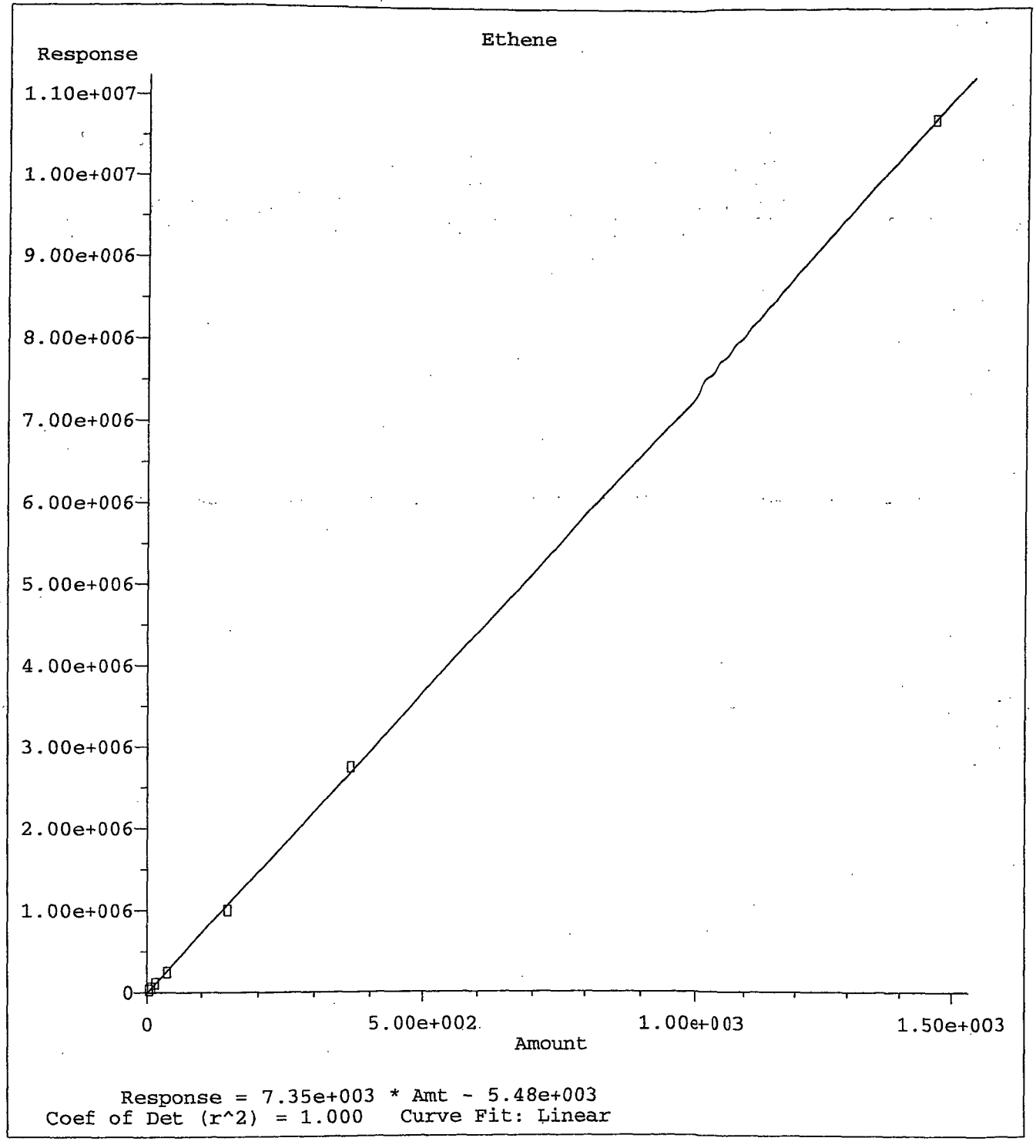




Method Name: G:\ROCKY\DATA\200624RS\RSK0914A.M
Calibration Table Last Updated: Mon Sep 14 12:40:32 2020



Method Name: G:\ROCKY\DATA\200624RS\RSK0914A.M
Calibration Table Last Updated: Mon Sep 14 12:40:32 2020



Method Name: G:\ROCKY\DATA\200624RS\RSK0914A.M
Calibration Table Last Updated: Mon Sep 14 12:40:32 2020

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/27/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 1027R02.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	25685	21677	16	ATML	12
2	ATML	Ethane	18863	18120	3.9	ATML	1.3
3	ATML	Ethene	14798	15499	4.7	ATML	5.9
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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36							
37							
38							
39							
40							
		Average			8.2		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1027R02.D Vial: 2
Acq On : 27 Oct 20 15:55 Operator: GA
Sample : 201027A LCS/CCV Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 27 15:57 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 27 15:54:13 2020
Response via : Multiple Level Calibration

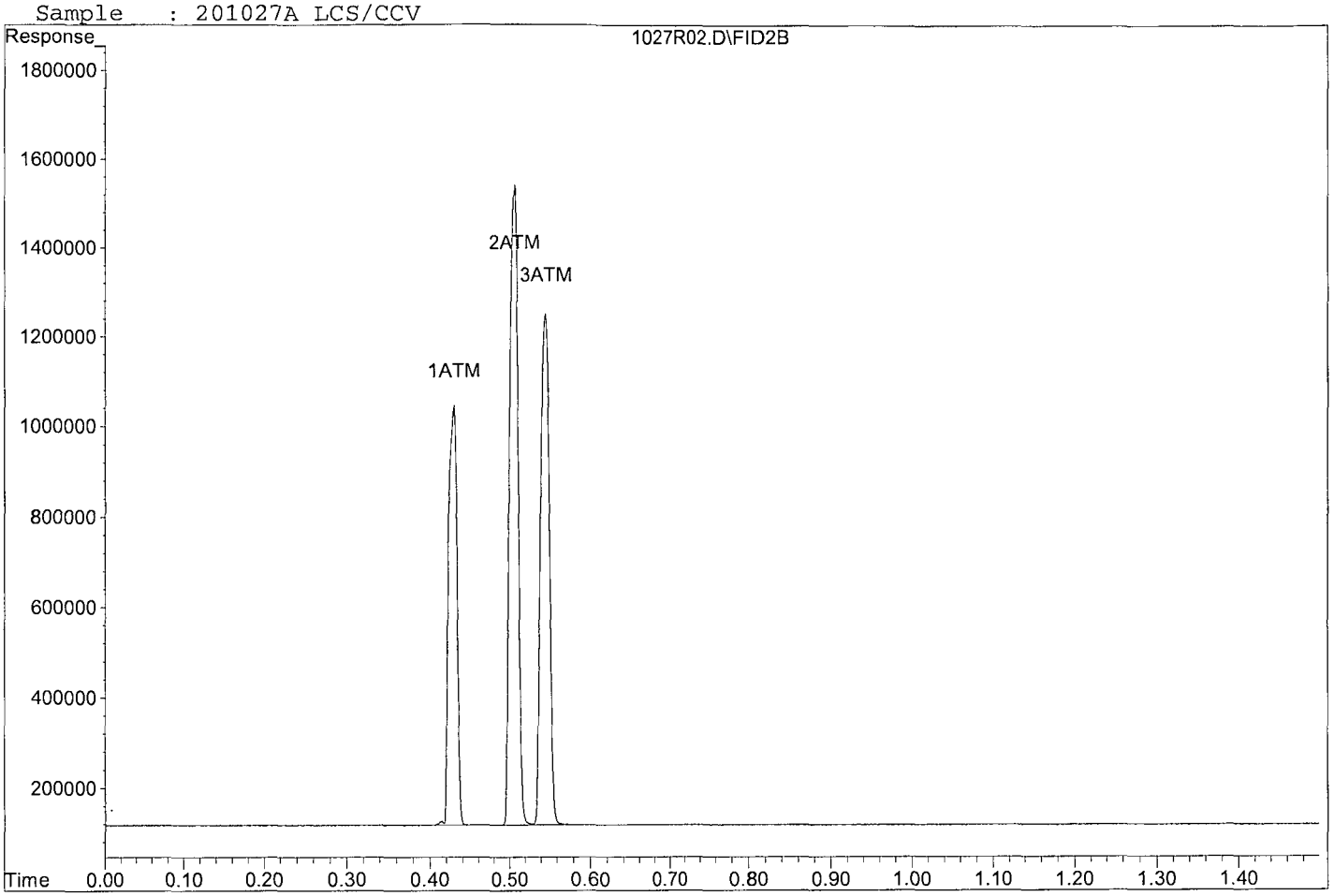
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.43	903932	73.225 ppb
2) ATM Ethane	0.51	1416526	154.255 ppb
3) ATM Ethene	0.55	1130156	154.433 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1027R02.D
Sample : 201027A LCS/CCV



RSK 175
RSK 175

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/27/20
Instrument: 7890
Initial Cal. Date: 09/14/20
Data File: 1027R18.D

		Compound	MEAN	CCRF	%D		%Drift
1	ATML	Methane	25685	19852	23	ATML	20
2	ATML	Ethane	18863	16490	13	ATML	10
3	ATML	Ethene	14798	13971	5.6	ATML	4.5
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
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35							
36							
37							
38							
39							
40							
		Average			13.9		

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1027R18.D Vial: 18
Acq On : 27 Oct 20 16:37 Operator: GA
Sample : 201027A LCSD/CCV Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 27 16:39 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 27 15:54:13 2020
Response via : Multiple Level Calibration

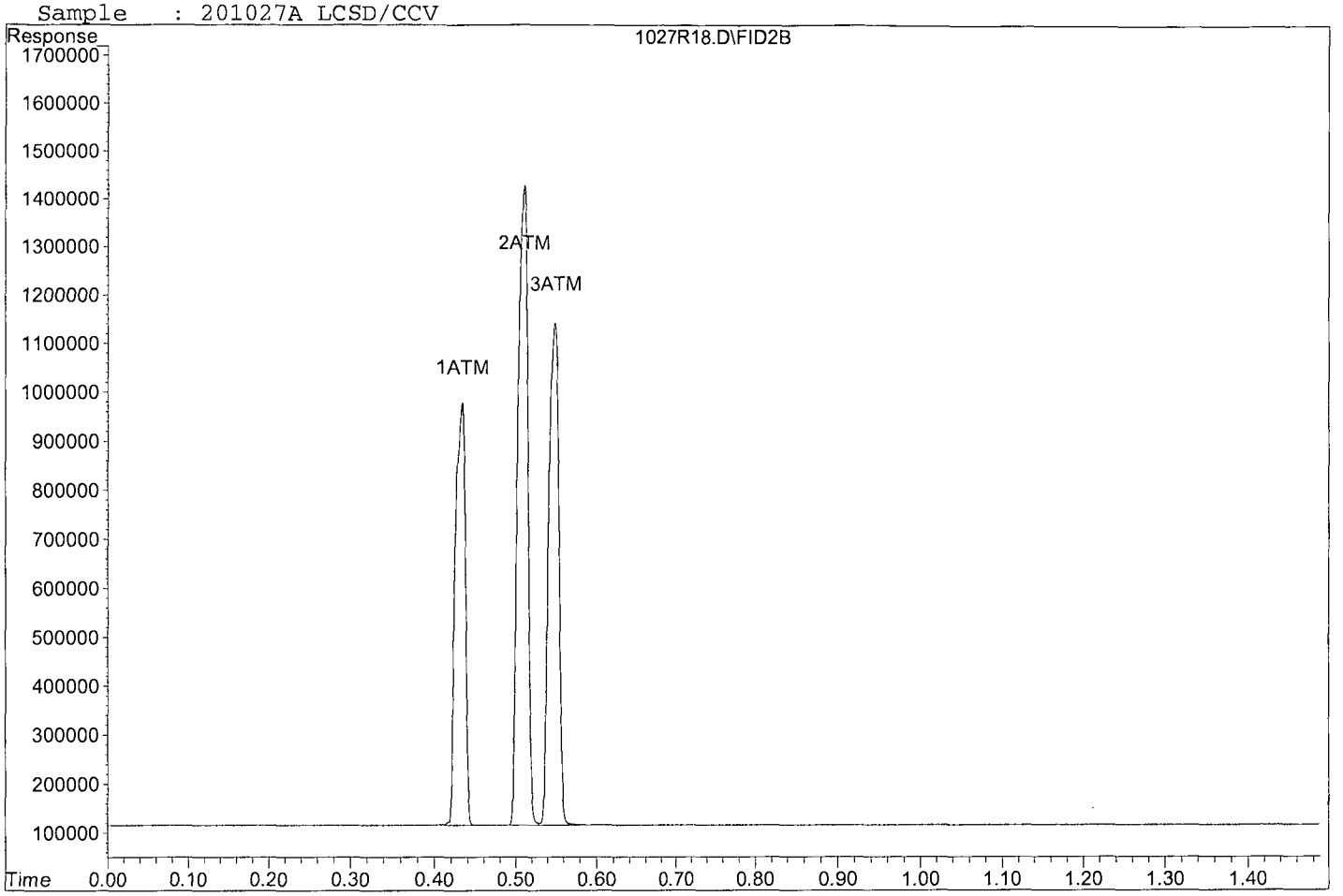
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) ATM Methane	0.43	827834	67.054 ppb
2) ATM Ethane	0.51	1289126	140.278 ppb
3) ATM Ethene	0.55	1018770	139.286 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1027R18.D
Sample : 201027A LCSD/CCV



ORGANICS

Raw Data

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1027R04.D Vial: 4
Acq On : 27 Oct 20 16:01 Operator: GA
Sample : BA20485W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 27 16:04 2020 Quant Results File: RSK0914A.RES

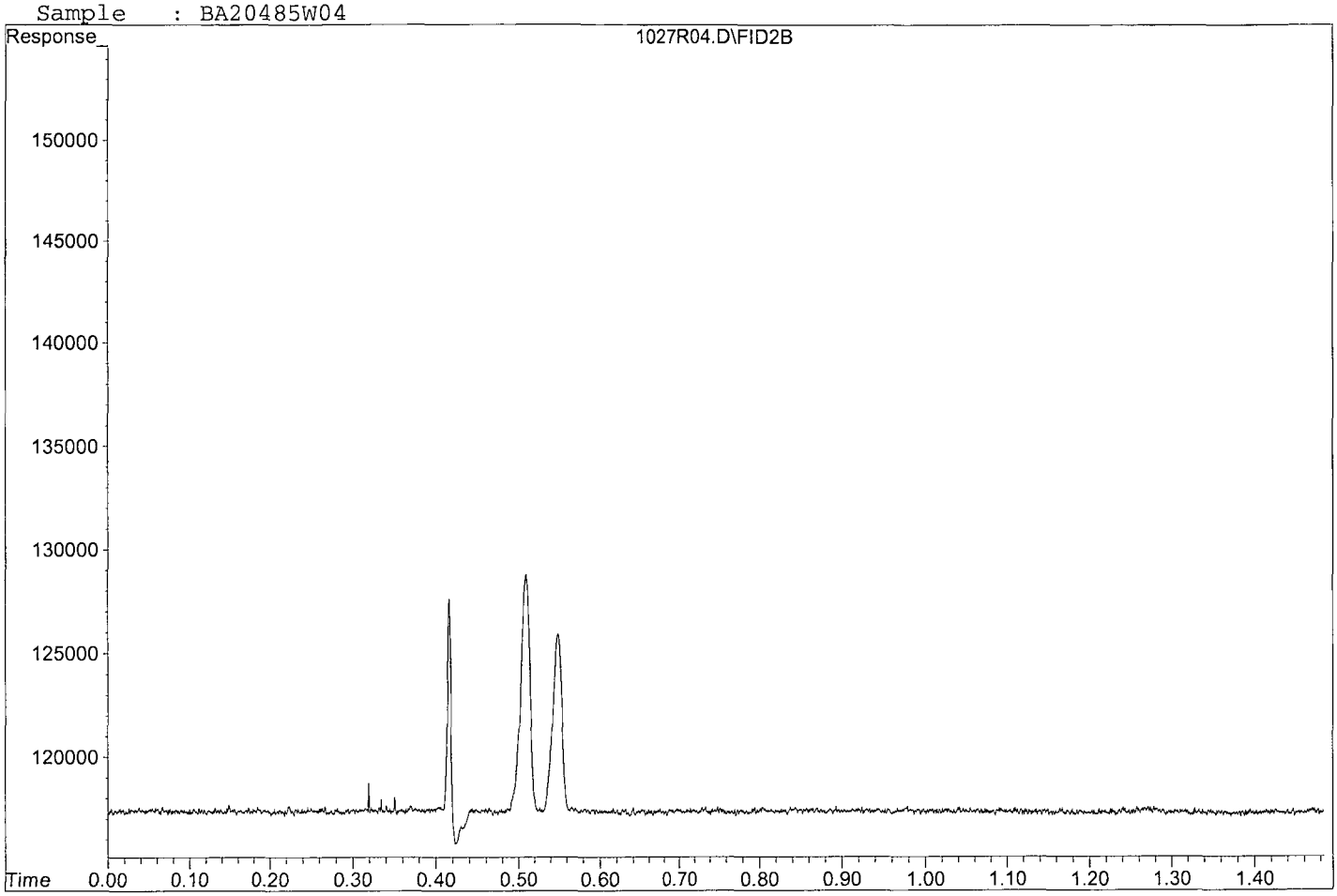
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 27 15:54:13 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1027R04.D
Sample : BA20485W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1027R05.D Vial: 5
Acq On : 27 Oct 20 16:05 Operator: GA
Sample : BA20486W04 Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 27 16:07 2020 Quant Results File: RSK0914A.RES

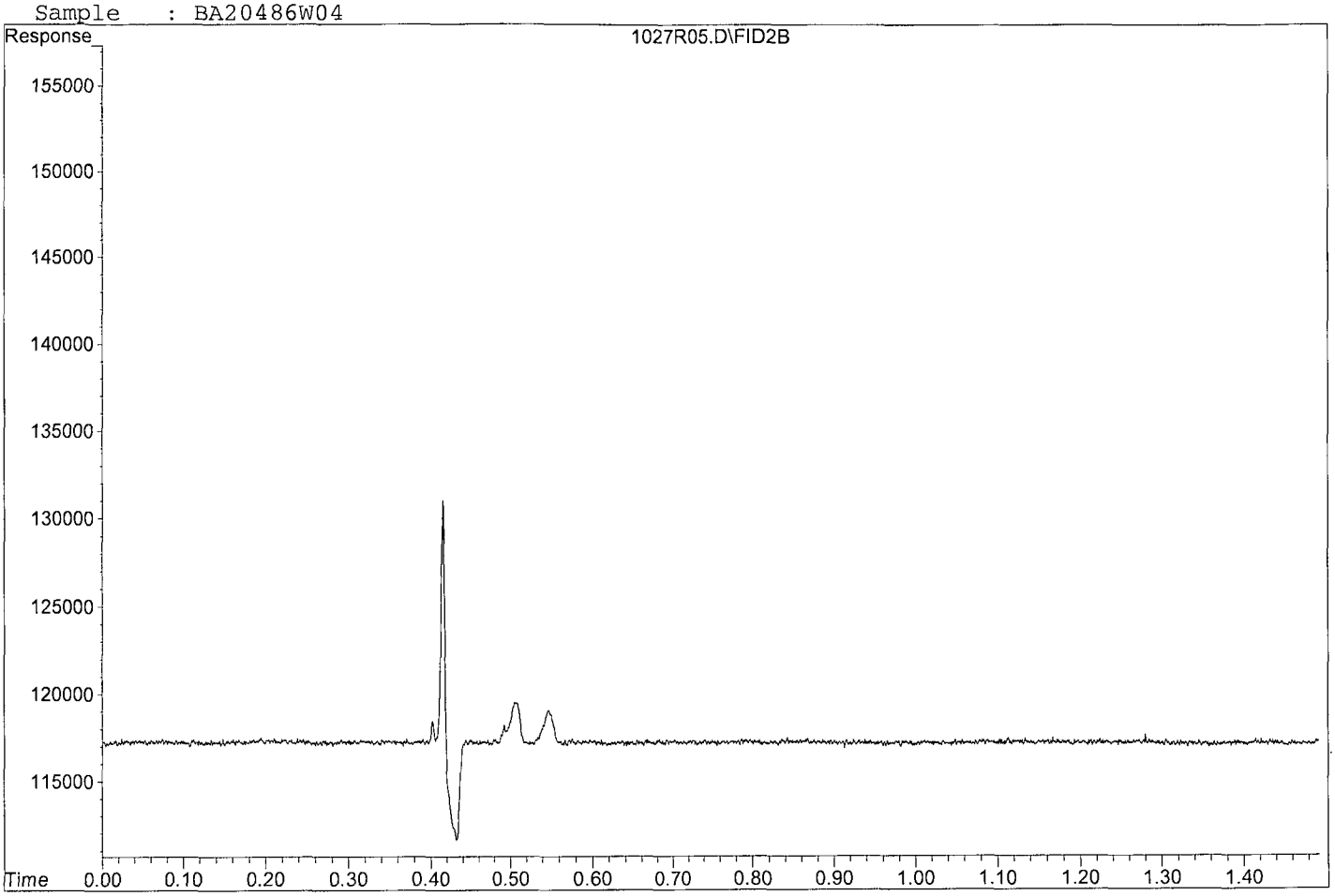
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 27 15:54:13 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1027R05.D
Sample : BA20486W04



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1027R03.D Vial: 3
Acq On : 27 Oct 20 15:58 Operator: GA
Sample : 201027A BLK Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 27 16:00 2020 Quant Results File: RSK0914A.RES

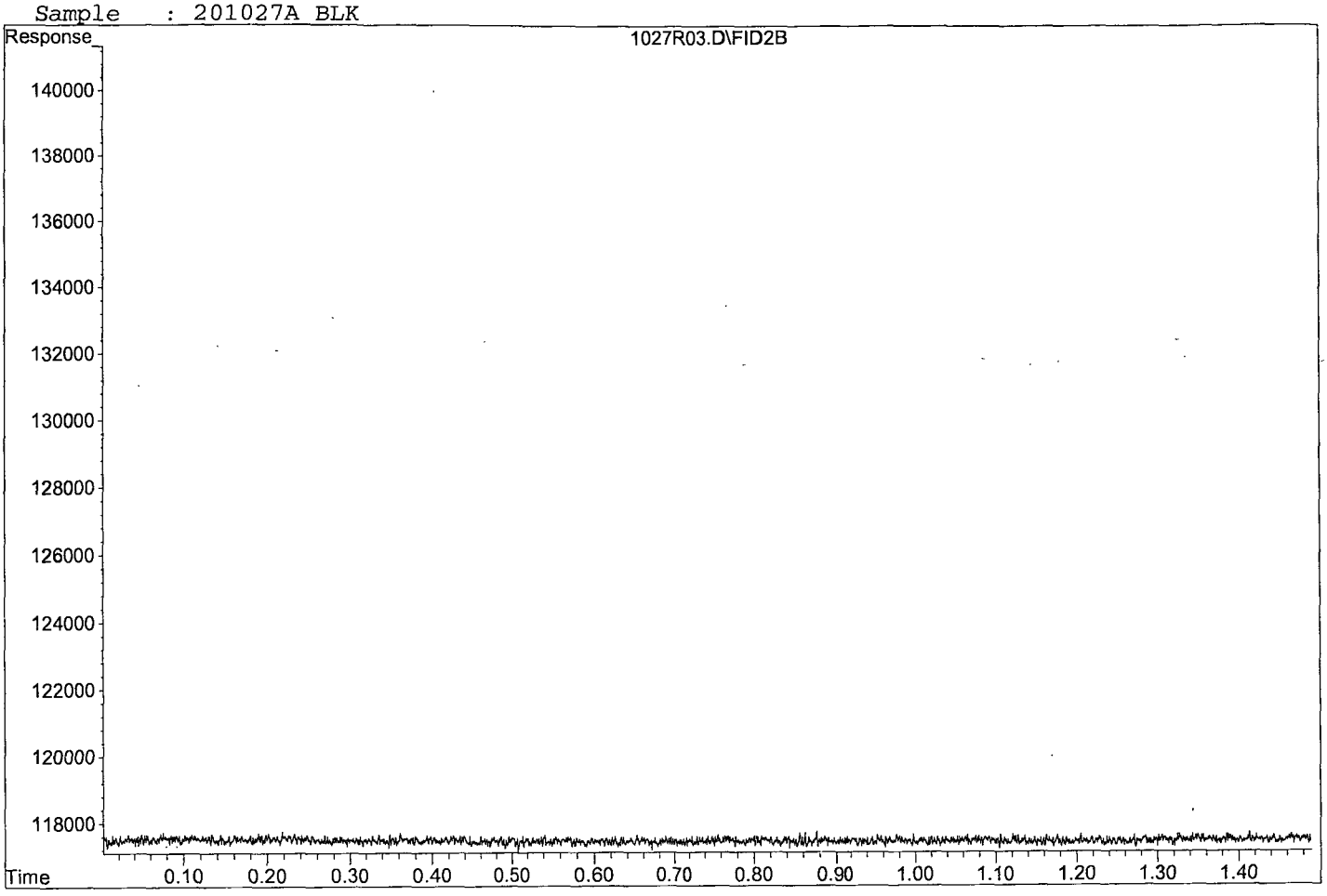
Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 27 15:54:13 2020
Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb
2) ATM Ethane	0.00	0	N.D.	ppb
3) ATM Ethene	0.00	0	N.D.	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1027R03.D
Sample : 201027A BLK



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1027R02.D Vial: 2
Acq On : 27 Oct 20 15:55 Operator: GA
Sample : 201027A LCS/CCV Inst : 7890
Misc : RSK STD 5 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 27 15:57 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 27 15:54:13 2020
Response via : Multiple Level Calibration

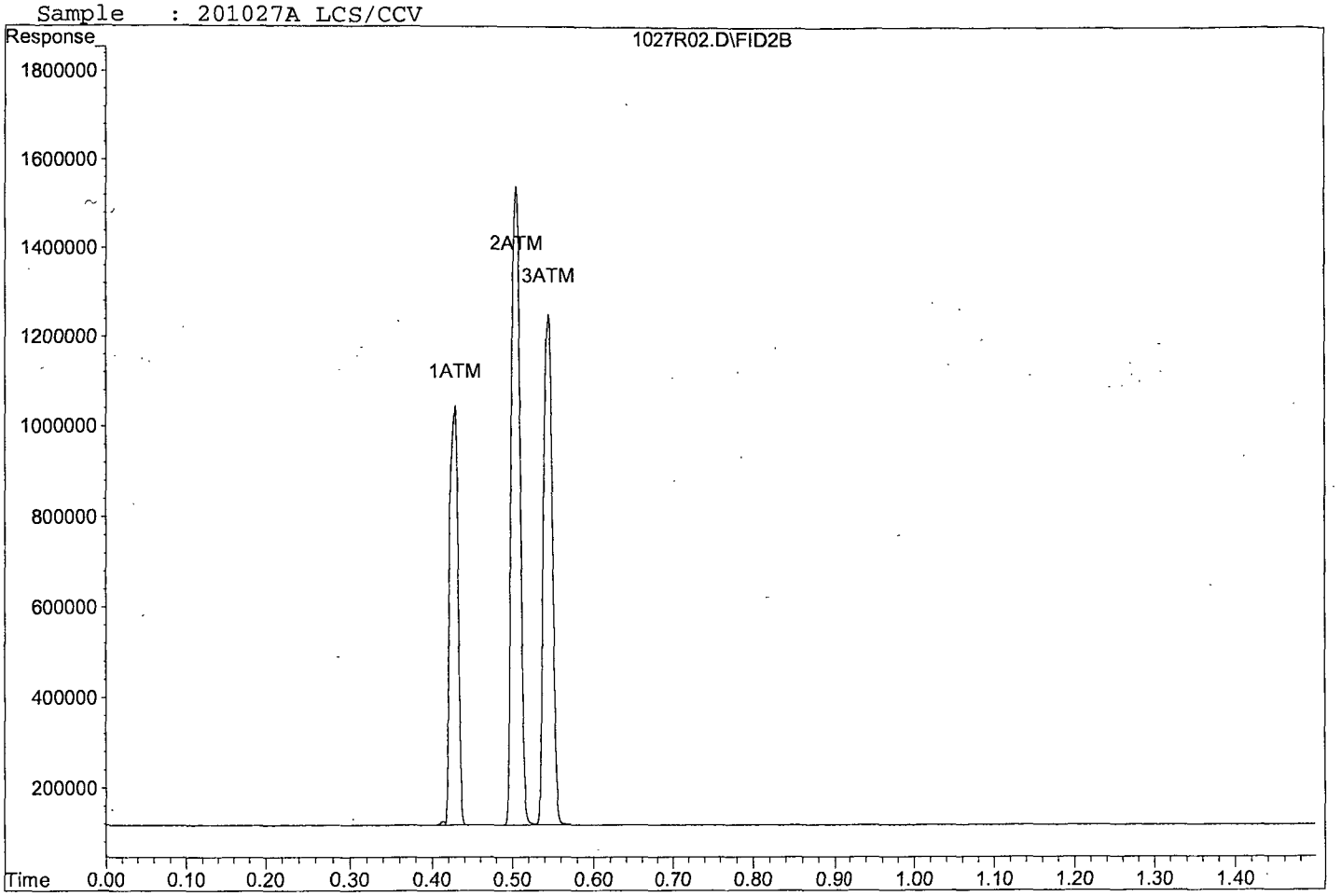
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) ATM Methane	0.43	903932	73.225	ppb
2) ATM Ethane	0.51	1416526	154.255	ppb
3) ATM Ethene	0.55	1130156	154.433	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1027R02.D
Sample : 201027A LCS/CCV



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\200914RS\1027R18.D Vial: 18
Acq On : 27 Oct 20 16:37 Operator: GA
Sample : 201027A LCSD/CCV Inst : 7890
Misc : Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Oct 27 16:39 2020 Quant Results File: RSK0914A.RES

Method : G:\ROCKY\DATA\200624RS\RSK0914A.M (Chemstation Integrator)
Title : RSK 175
Last Update : Tue Oct 27 15:54:13 2020
Response via : Multiple Level Calibration

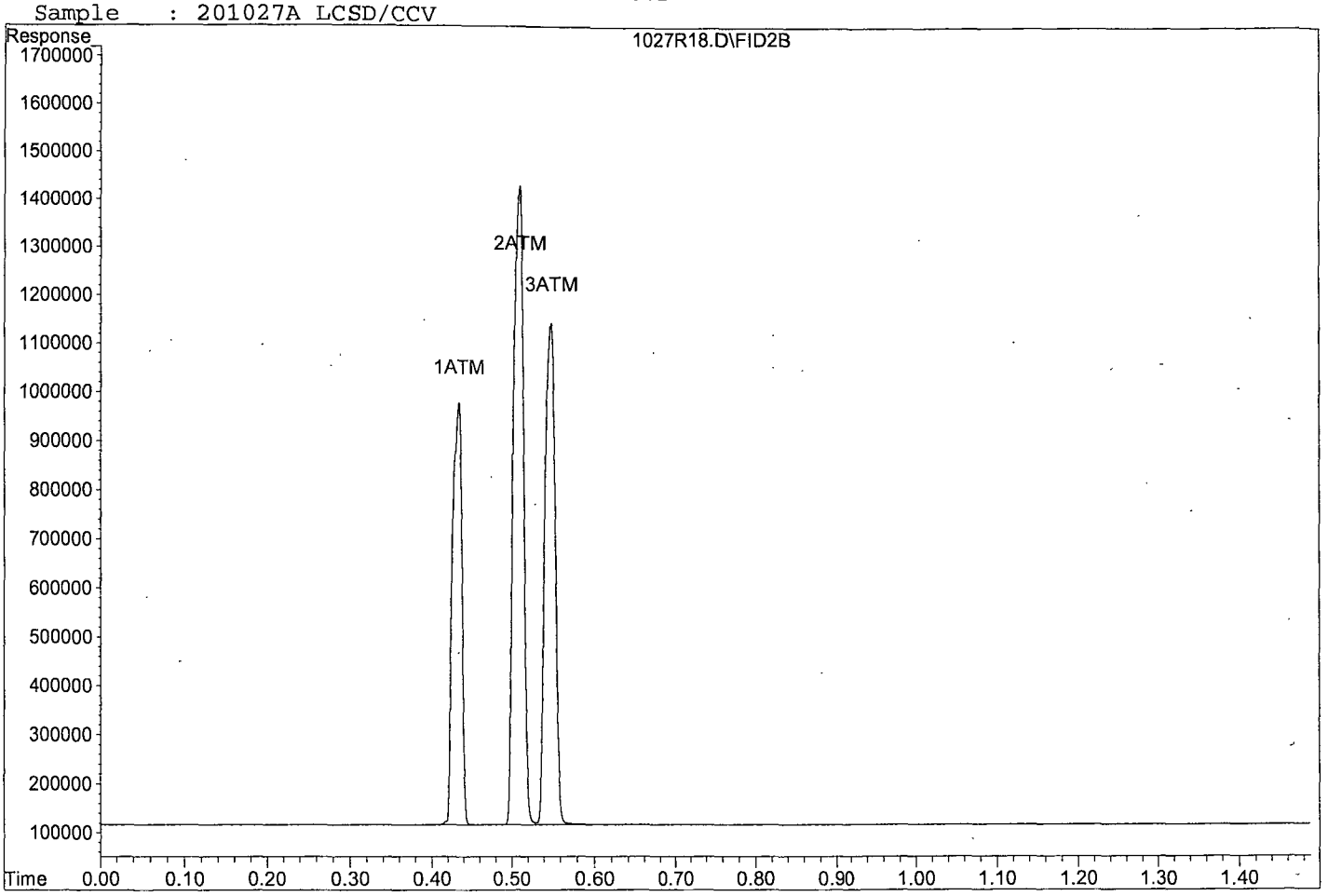
Volume Inj. : 0.500 mL
Signal Phase : CARBOPACK
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) ATM Methane	0.43	827834	67.054	ppb
2) ATM Ethane	0.51	1289126	140.278	ppb
3) ATM Ethene	0.55	1018770	139.286	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\ROCKY\DATA\200914RS\1027R18.D
Sample : 201027A LCSD/CCV



Primary Stock Source

10,000ppmV **Manufacture Expiration:** 09/21/21

RSK Gas Mix (Scott Specialty Gas) CAT#X04NI97CP140001 LOT#160-401558175-1

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

RSK Calibration Curve

Analyte	Conc Std 1 (1/2 = LOD) (ug/L)	Conc Std 2 (LOQ Chk) (ug/L)	Conc Std 3 (ug/L)	Conc Std 4 (ug/L)	Conc Std 5 (ug/L)	Conc Std 6 (ug/L)	Conc Std 7 (ug/L)
Methane (MW 16.04)	2.08	4.16	8.34	20.85	83.40	208.5	834.0
Ethane (MW 30.07)	3.91	7.81	15.6	39.09	156.35	390.9	1563.5
Ethene (MW 28.05)	3.65	7.30	14.6	36.46	145.84	364.6	1458.4
Stock Source	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1
Stock Conc (ppmv)	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV
Stock Aliquot (mL)	0.010	0.020	0.040	0.100	0.400	1.00	4.00
Final Volume P&T Water	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL
Curve Prep:	09/14/20						
Expiration Date	09/15/20						
Analyst	CD						

Second Source Stock Standard 10,000ppmV **Manufacturer Exp date 9-21-2021**

RSK Gas Mix (Scott Specialty Gas) Cat.# 23452, Lot # 160-401303032-1-39774

1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

Second Source **Expires 06/25/2020** **CD 09/14/20**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace

final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

CCV/LCS/LCSD **GA 10/27/20**

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace

final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

Injection Log

Directory: G:\ROCKY\DATA\200914RS\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0914R07.D	1	RSK STD1 200914		14 Sep 20 12:06
2	1	0914R08.D	1	RSK STD2 200914		14 Sep 20 12:10
3	1	0914R09.D	1	RSK STD3 200914		14 Sep 20 12:13
4	1	0914R10.D	1	RSK STD4 200914		14 Sep 20 12:18
5	1	0914R11.D	1	RSK STD5 200914		14 Sep 20 12:21
6	1	0914R12.D	1	RSK STD6 200914		14 Sep 20 12:25
7	1	0914R13.D	1	RSK STD7 200914		14 Sep 20 12:28
8	1	0914R14.D	1	SS RSK STD5 200914		14 Sep 20 12:32
9	2	1027R02.D	1	201027A LCS/CCV	RSK STD 5	27 Oct 20 15:55
10	3	1027R03.D	1	201027A BLK		27 Oct 20 15:58
11	4	1027R04.D	1	BA20485W04		27 Oct 20 16:01
12	5	1027R05.D	1	BA20486W04		27 Oct 20 16:05
23	18	1027R18.D	1	201027A LCSD/CCV		27 Oct 20 16:37

INORGANIC ANALYSIS
Calibration Data

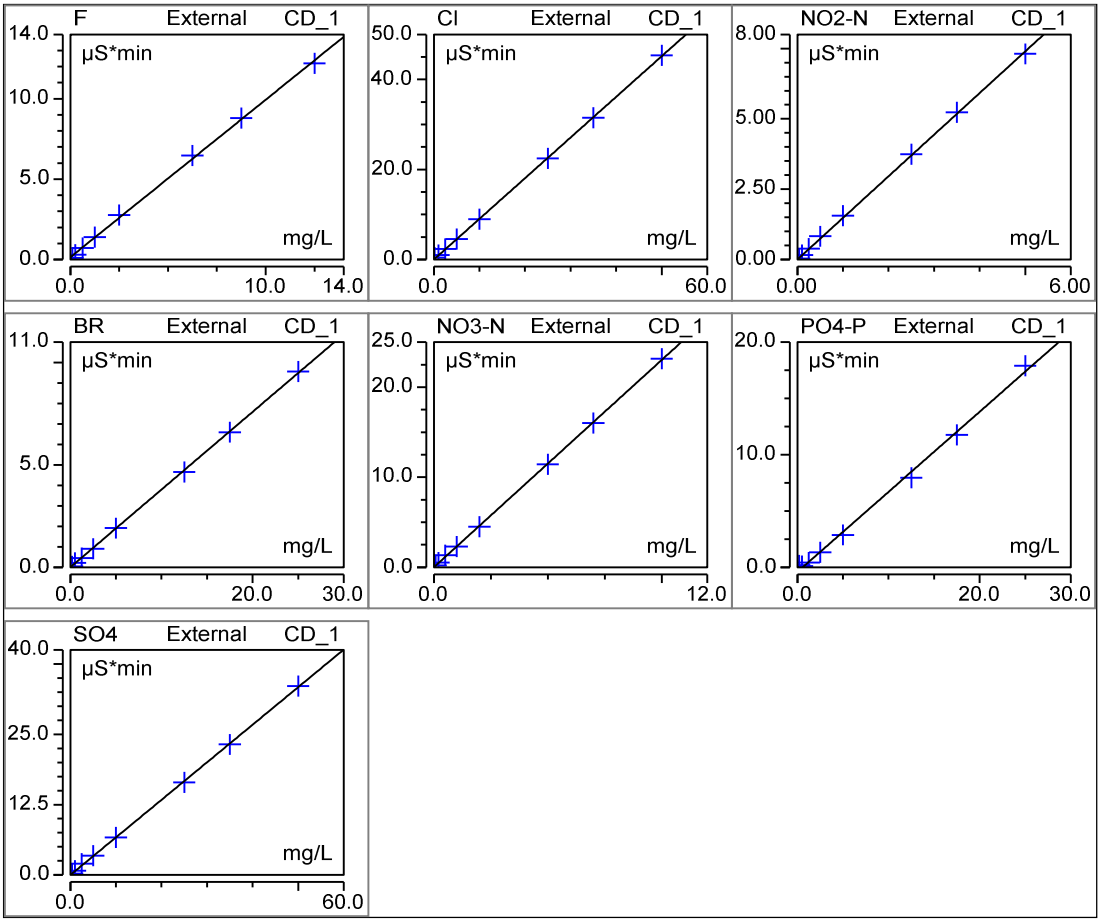
Calibration Batch Report

Sequence:	**200914**	*Injection Volume:*	**100.00**
Instrument Method:	**Anions IM**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:14**	*Run Time:*	**11.3**

Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset	8.000	0.145	0.979	0.000	99.9001
Cl	Area	Lin	8.000	0.000	0.903	0.000	99.9935
NO2-N	Area	Lin	8.000	0.000	1.479	0.000	99.9464
BR	Area	Lin	8.000	0.000	0.380	0.000	99.9760
NO3-N	Area	Lin	8.000	0.000	2.303	0.000	99.9829
PO4-P	Area	Lin, WithOffset	8.000	-0.422	0.712	0.000	99.6941
SO4	Area	Lin	8.000	0.000	0.668	0.000	99.9749

Injection Name	Amount mg/L CD_1 F	Amount mg/L CD_1 Cl	Amount mg/L CD_1 NO2-N	Amount mg/L CD_1 BR	Amount mg/L CD_1 NO3-N	Amount mg/L CD_1 PO4-P	Amount mg/L CD_1 SO4
Cal 1 2020.09.14	n.a.	0.4466	0.0267	0.1154	0.0851	0.8392	0.3384
Cal 2 2020.09.14	0.156	1.0882	0.1103	0.5719	0.2207	0.7580	1.0968
Cal 3 2020.09.14	0.579	2.5688	0.2608	1.1951	0.5851	1.1858	3.0282
Cal 6 2020.09.14	6.454	24.8384	2.5325	12.2607	4.9590	11.7563	24.6682
Cal 7 2020.09.14	8.833	34.8728	3.5379	17.3849	6.9578	17.1045	34.7367
Cal 8 2020.09.14	12.309	50.1817	4.9401	25.2082	10.0551	25.7199	50.3133
Cal 4 2020.09.14	1.274	5.0060	0.5579	2.3764	0.9968	2.4551	5.1734
Cal 5 2020.09.14	2.674	9.9066	1.0533	5.0316	1.9525	4.6312	9.9586

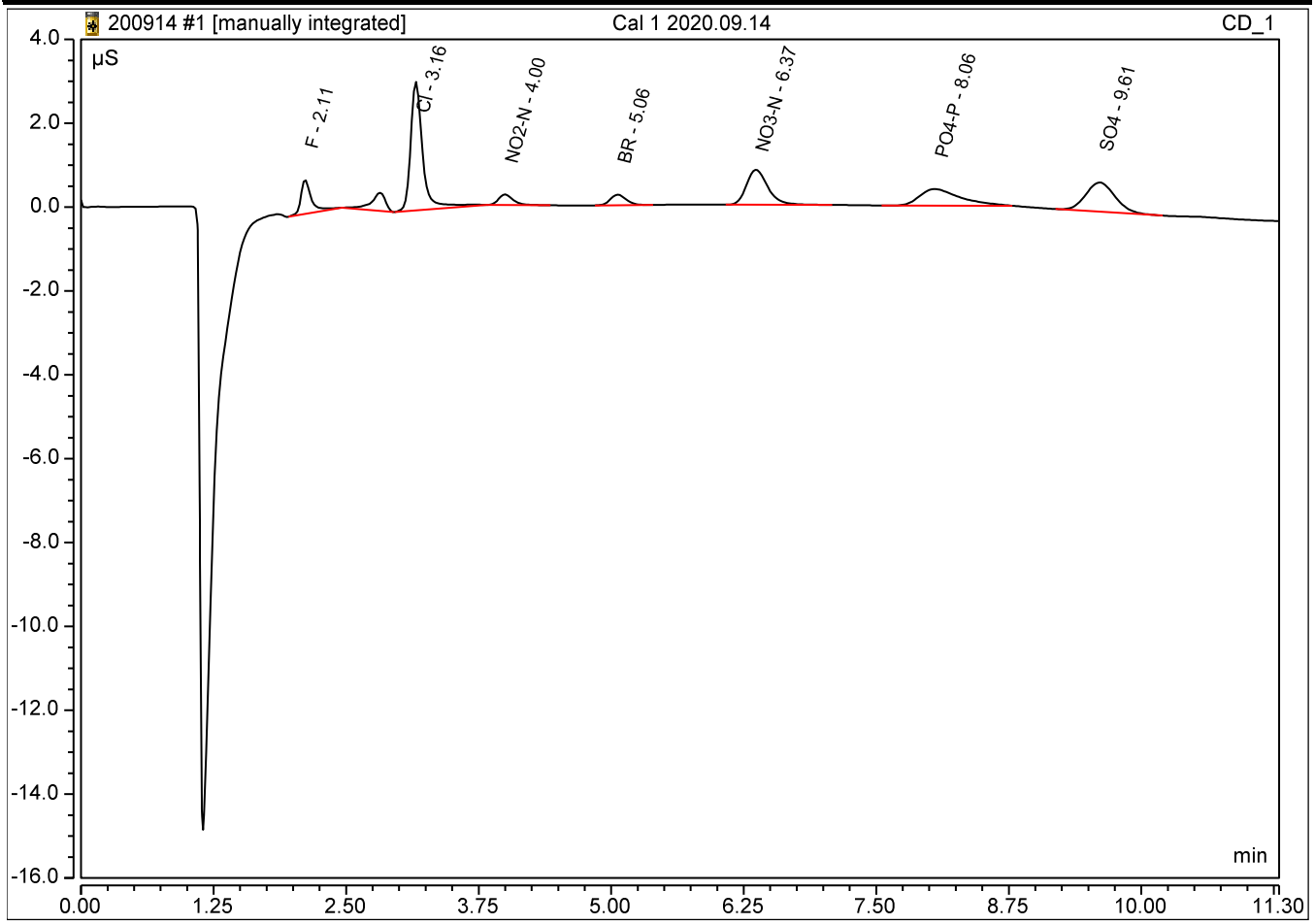


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 1 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:17**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	0.093	0.817	n.a.	0.1	951224067 c
3	3.16	**Cl**	BMB	0.403	3.072	0.45	0.2	223.3%
4	4.00	**NO2-N**	BMB	0.039	0.250	0.03	0.04	66.7%
5	5.06	**BR**	BMB	0.044	0.253	0.12	0.2	57.7%
6	6.37	**NO3-N**	BMB	0.196	0.837	0.09	0.08	106.4%
7	8.06	**PO4-P**	BMB*	0.176	0.398	0.84	0.2	419.6%
8	9.61	**SO4**	BMB	0.226	0.700	0.34	0.4	84.6%

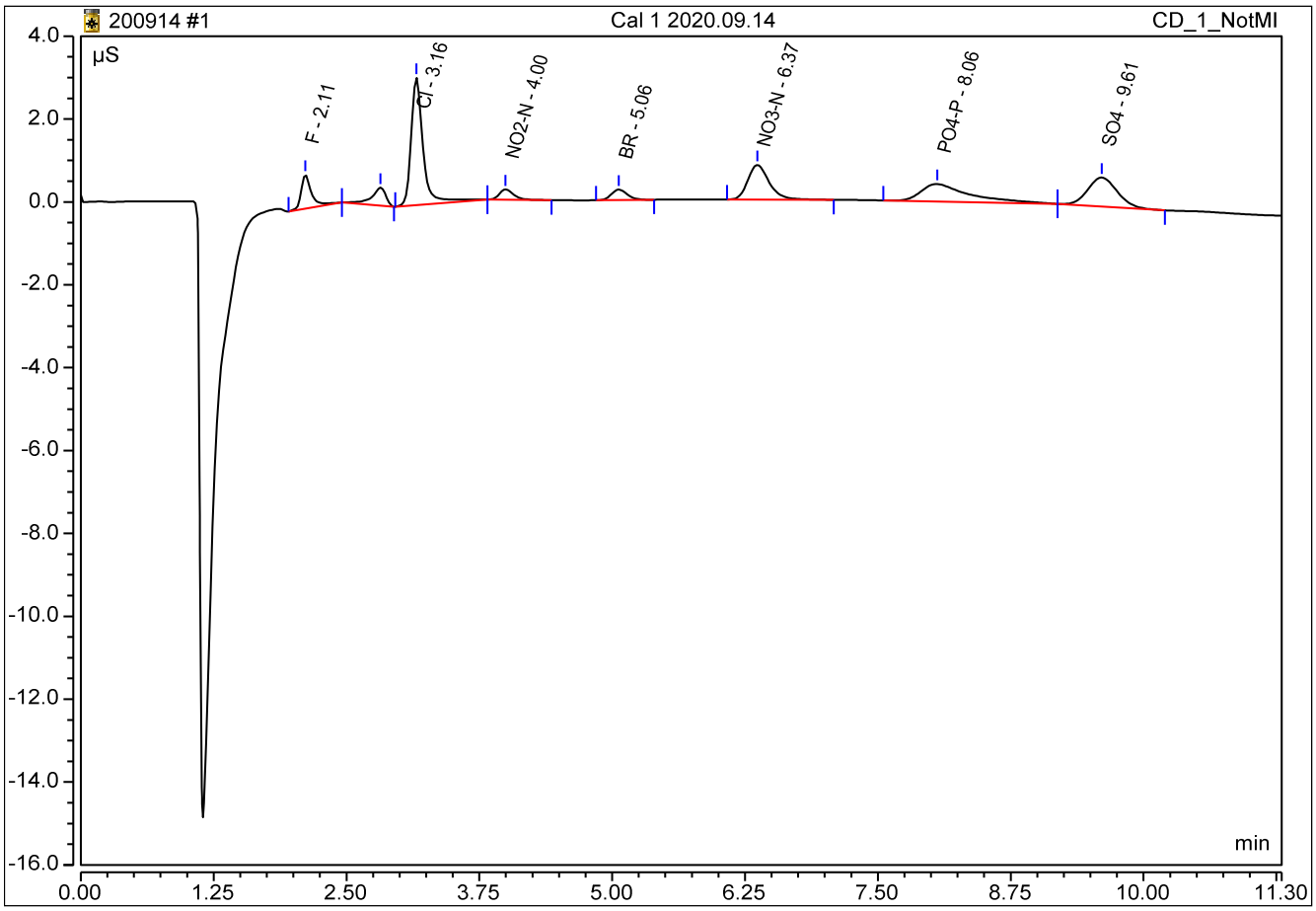


MI 5 PO4 GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**Cal 1 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:17**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.11	**F**	BMB	0.093	0.817	-0.0531
3	3.16	**Cl**	BMB	0.403	3.072	0.4466
4	4.00	**NO2-N**	BMB	0.039	0.250	0.0267
5	5.06	**BR**	BMB	0.044	0.253	0.1154
6	6.37	**NO3-N**	BMB	0.196	0.837	0.0849
7	8.06	**PO4-P**	BMB*	0.223	0.422	0.8905
8	9.61	**SO4**	BMB	0.226	0.700	0.3383

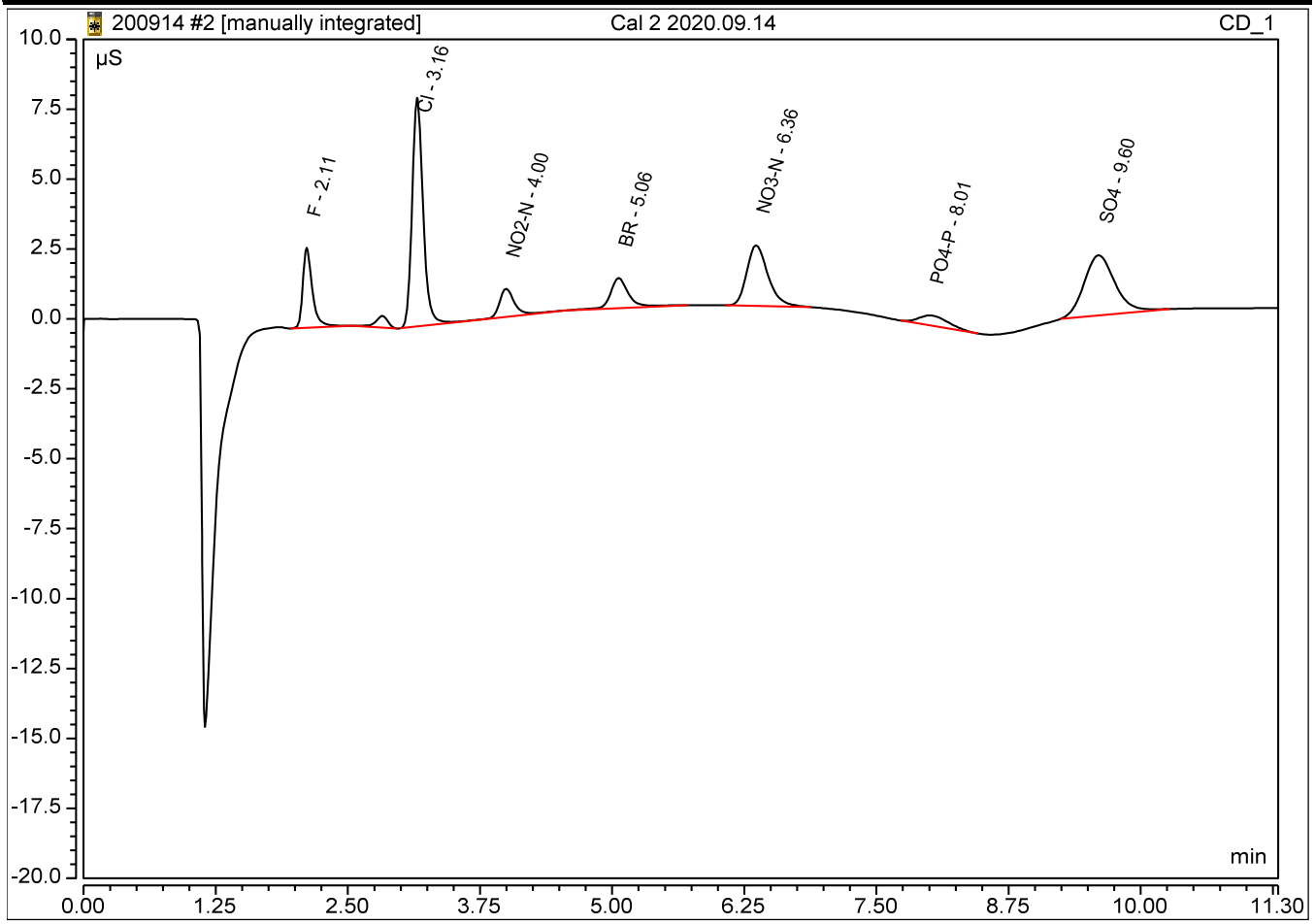


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 2 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:31**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	0.298	2.857	0.16	0.25	62.4%
3	3.16	**Cl**	BMB	0.983	8.183	1.09	1	108.8%
4	4.00	**NO2-N**	BMB	0.163	1.007	0.11	0.1	110.3%
5	5.06	**BR**	BMB	0.217	1.077	0.57	0.5	114.4%
6	6.36	**NO3-N**	BMB*	0.508	2.172	0.22	0.2	110.4%
7	8.01	**PO4-P**	BMB	0.118	0.358	0.76	0.5	151.6%
8	9.60	**SO4**	BMB*	0.732	2.158	1.10	1	109.7%

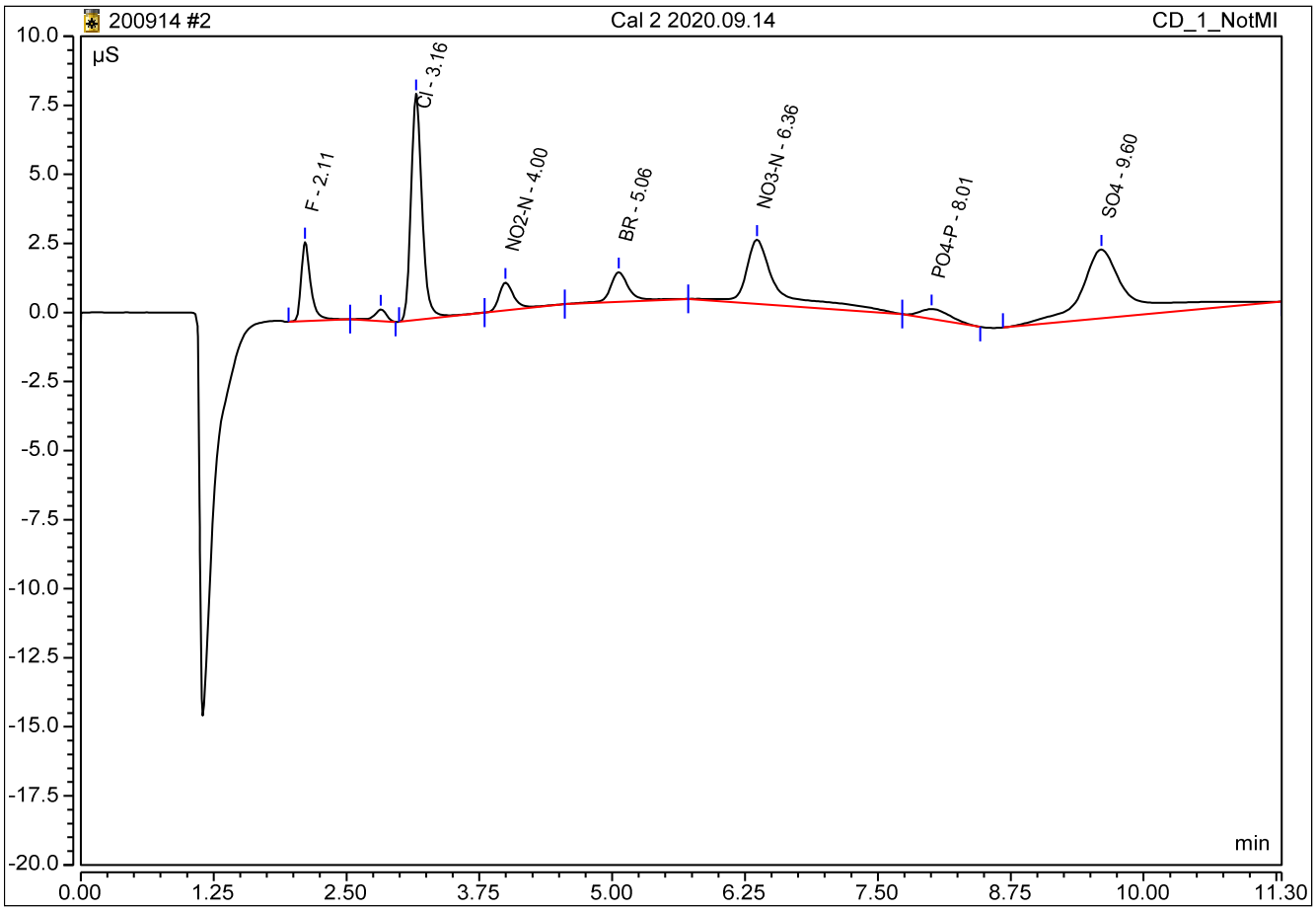


MI 5 F GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**Cal 2 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:31**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.11	**F**	BMB	0.298	2.857	0.1559
3	3.16	**Cl**	BMB	0.983	8.183	1.0882
4	4.00	**NO2-N**	BMB	0.163	1.007	0.1103
5	5.06	**BR**	BMB	0.217	1.077	0.5719
6	6.36	**NO3-N**	BMB*	0.803	2.321	0.3480
7	8.01	**PO4-P**	BMB	0.118	0.358	0.7435
8	9.60	**SO4**	BMB*	1.336	2.496	2.0007

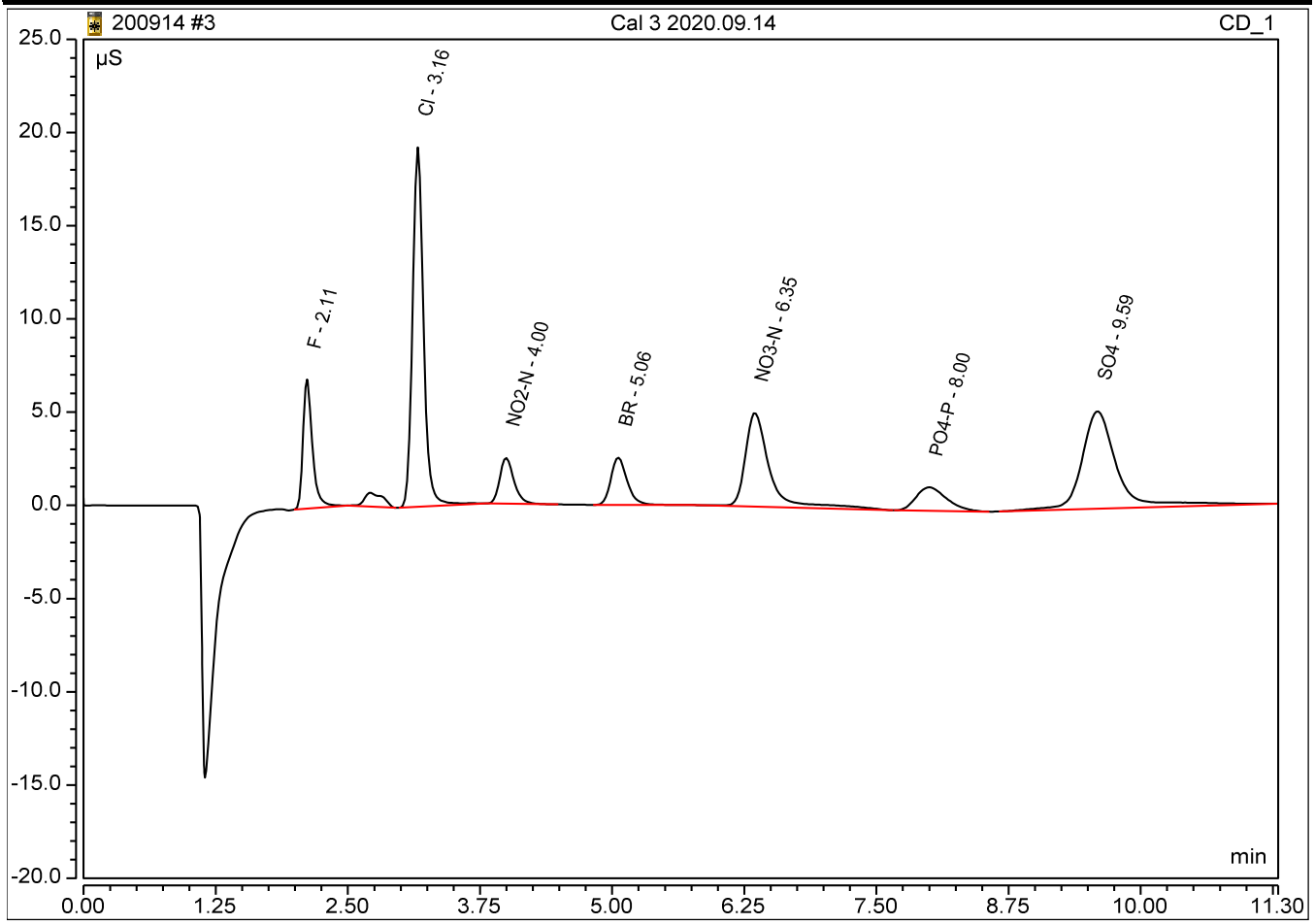


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 3 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 11:46**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	0.712	6.920	0.58	0.625	92.6%
3	3.16	**Cl**	BMB	2.321	19.279	2.57	2.5	102.8%
4	4.00	**NO2-N**	BMB	0.386	2.457	0.26	0.25	104.3%
5	5.06	**BR**	BMB	0.454	2.538	1.20	1.25	95.6%
6	6.35	**NO3-N**	BMB	1.347	5.037	0.59	0.5	117.0%
7	8.00	**PO4-P**	BMB	0.423	1.261	1.19	1.25	94.9%
8	9.59	**SO4**	BMB	2.022	5.227	3.03	2.5	121.1%

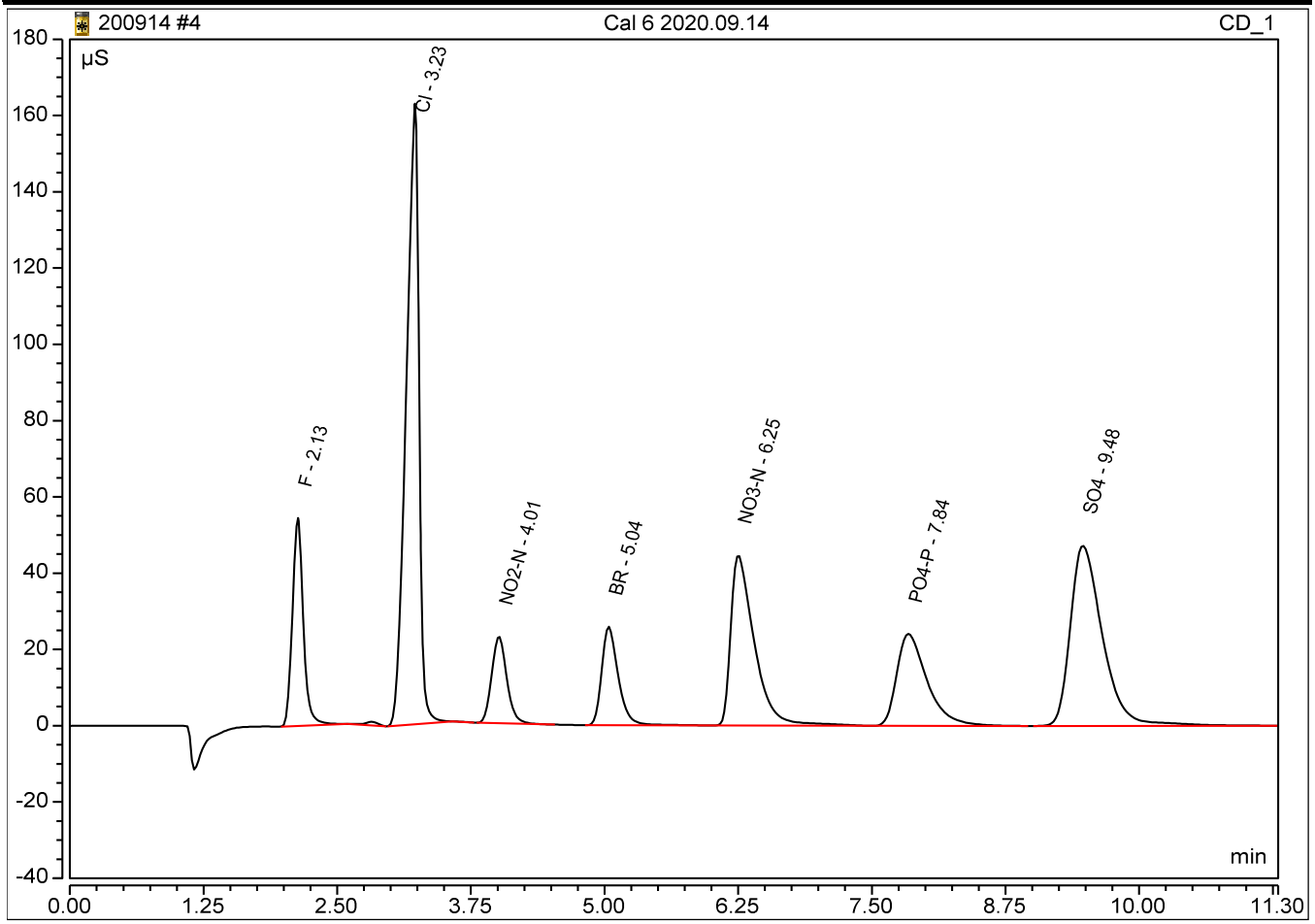


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 6 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 12:30**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.13	**F**	BMB	6.464	54.477	6.45	6.25	103.3%
3	3.23	**Cl**	BMB	22.440	162.678	24.84	25	99.4%
5	4.01	**NO2-N**	BMB	3.747	22.824	2.53	2.5	101.3%
6	5.04	**BR**	BMB	4.656	25.839	12.26	12.5	98.1%
7	6.25	**NO3-N**	BMB	11.419	44.646	4.96	5	99.2%
8	7.84	**PO4-P**	BMB	7.951	24.149	11.76	12.5	94.1%
9	9.48	**SO4**	BMB	16.472	47.232	24.67	25	98.7%

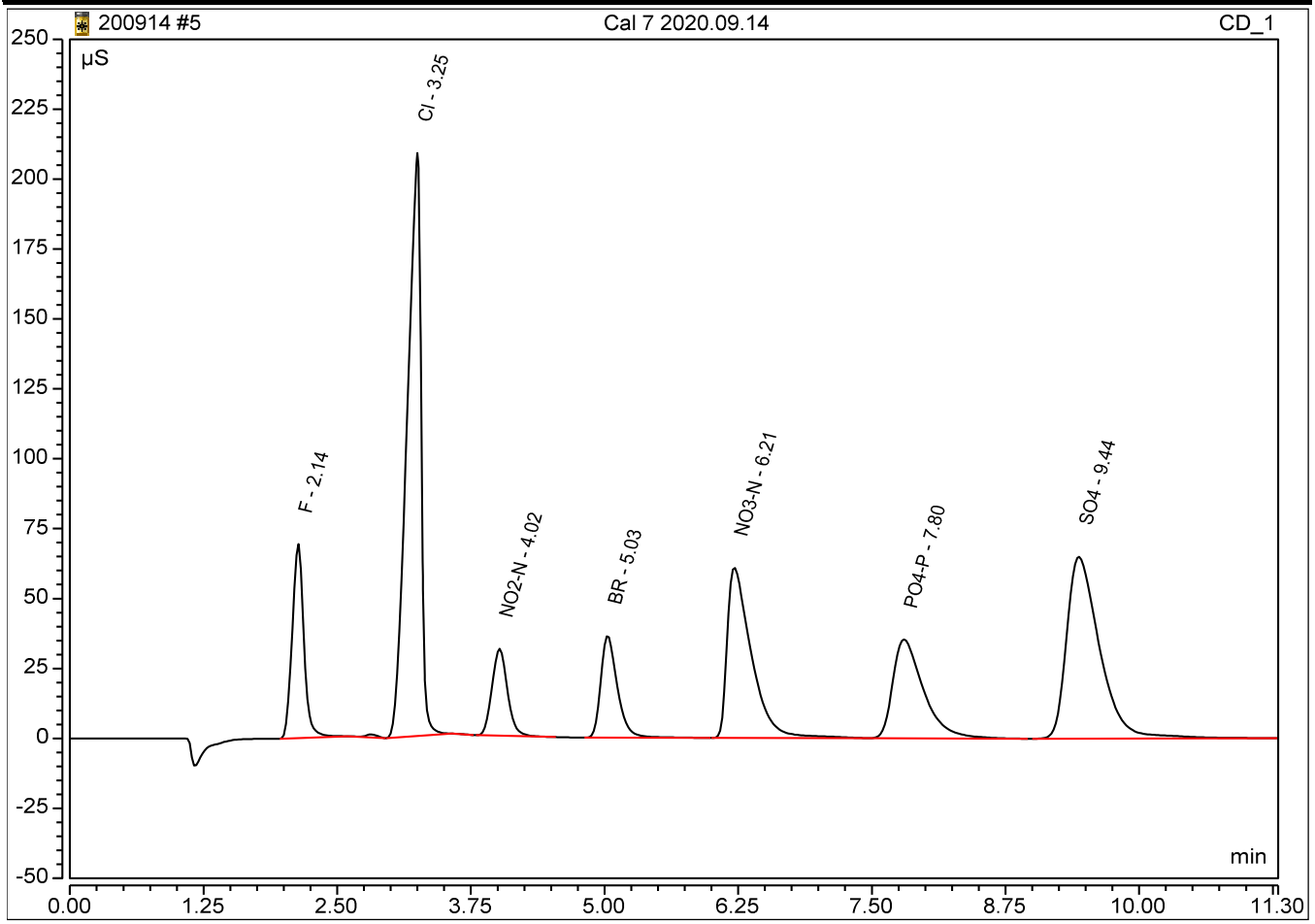


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 7 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 12:44**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.14	**F**	BMB	8.794	69.377	8.83	8.75	100.9%
3	3.25	**Cl**	BMB	31.505	208.470	34.87	35	99.6%
5	4.02	**NO2-N**	BMB	5.234	31.143	3.54	3.5	101.1%
6	5.03	**BR**	BMB	6.602	36.544	17.38	17.5	99.3%
7	6.21	**NO3-N**	BMB	16.022	60.982	6.96	7	99.4%
8	7.80	**PO4-P**	BMB	11.759	35.362	17.10	17.5	97.7%
9	9.44	**SO4**	BMB	23.196	65.073	34.74	35	99.2%

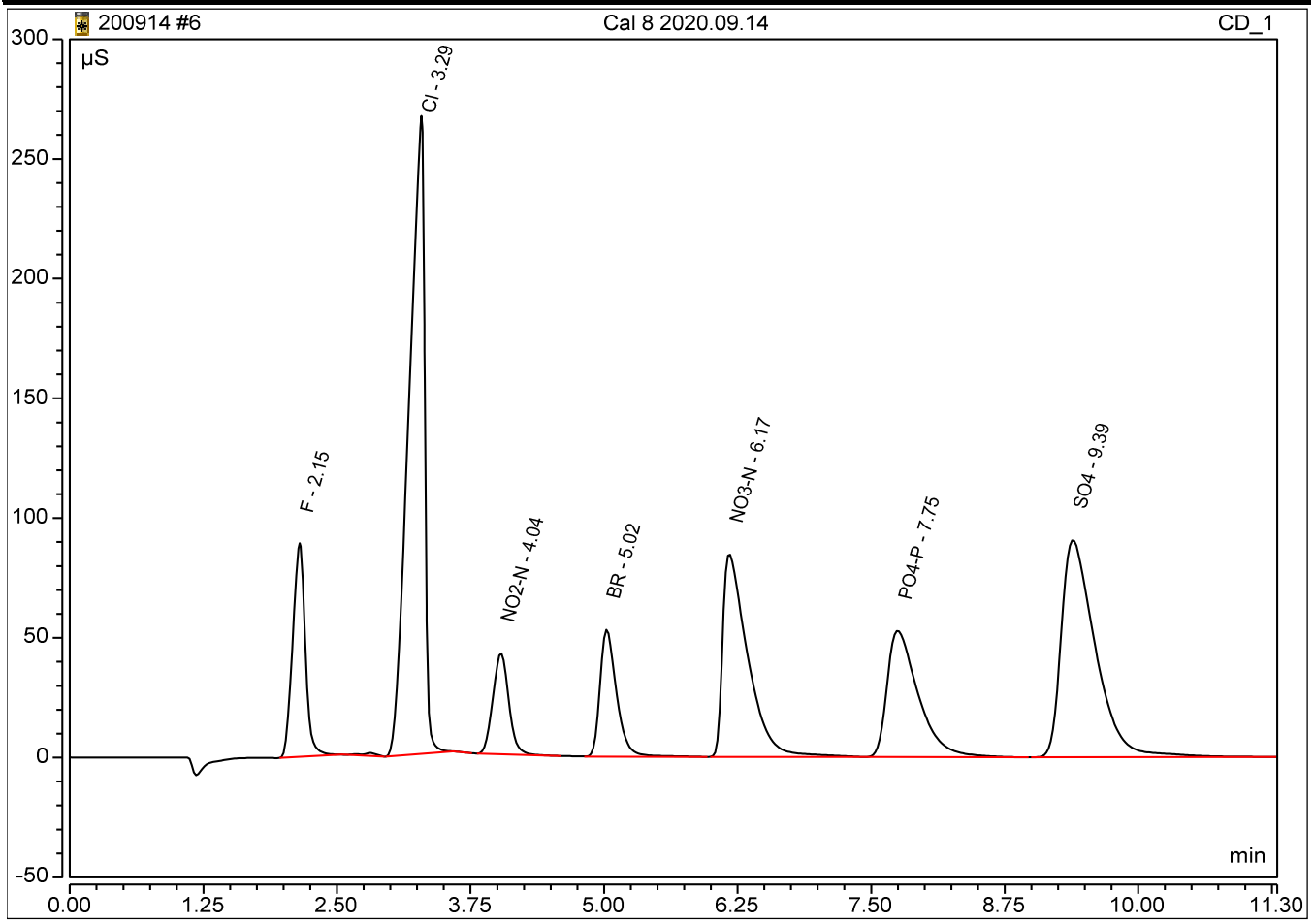


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 8 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 12:59**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.15	**F**	BMB	12.197	89.244	12.31	12.5	98.5%
3	3.29	**Cl**	BMB	45.336	266.470	50.18	50	100.4%
5	4.04	**NO2-N**	BMB	7.309	42.267	4.94	5	98.8%
6	5.02	**BR**	BMB	9.573	52.969	25.21	25	100.8%
7	6.17	**NO3-N**	BMB	23.155	84.819	10.06	10	100.6%
8	7.75	**PO4-P**	BMB	17.895	52.746	25.72	25	102.9%
9	9.39	**SO4**	BMB	33.597	90.716	50.31	50	100.6%

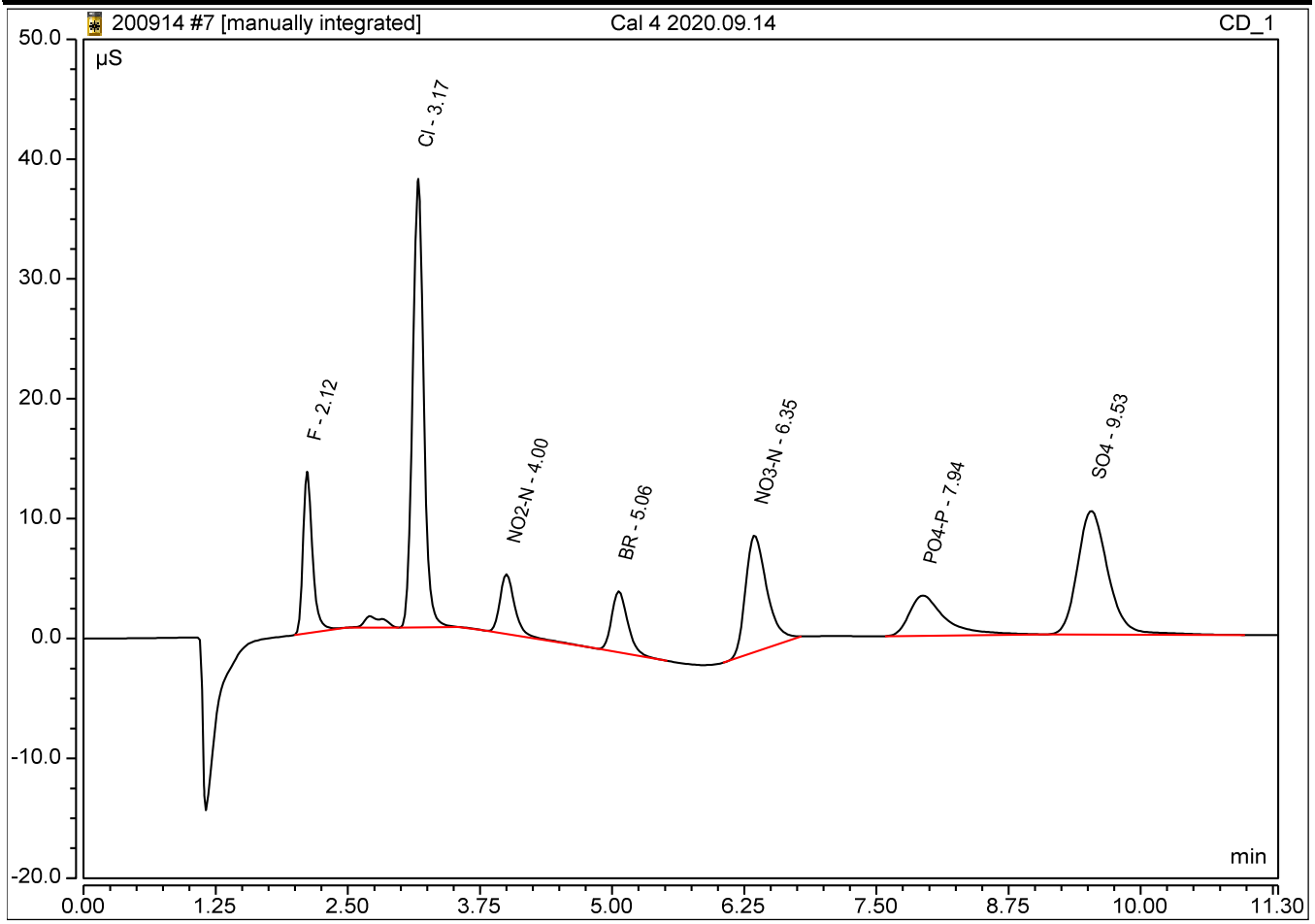


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 4 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 14:59**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.12	**F**	BMB	1.393	13.483	1.27	1.25	101.9%
3	3.17	**Cl**	BMB	4.523	37.438	5.01	5	100.1%
5	4.00	**NO2-N**	BMB	0.825	4.993	0.56	0.5	111.6%
6	5.06	**BR**	BMB	0.902	5.100	2.38	2.5	95.1%
7	6.35	**NO3-N**	BMB*	2.295	9.746	1.00	1	99.7%
8	7.94	**PO4-P**	BMB	1.327	3.365	2.46	2.5	98.2%
9	9.53	**SO4**	BMB	3.455	10.323	5.17	5	103.5%

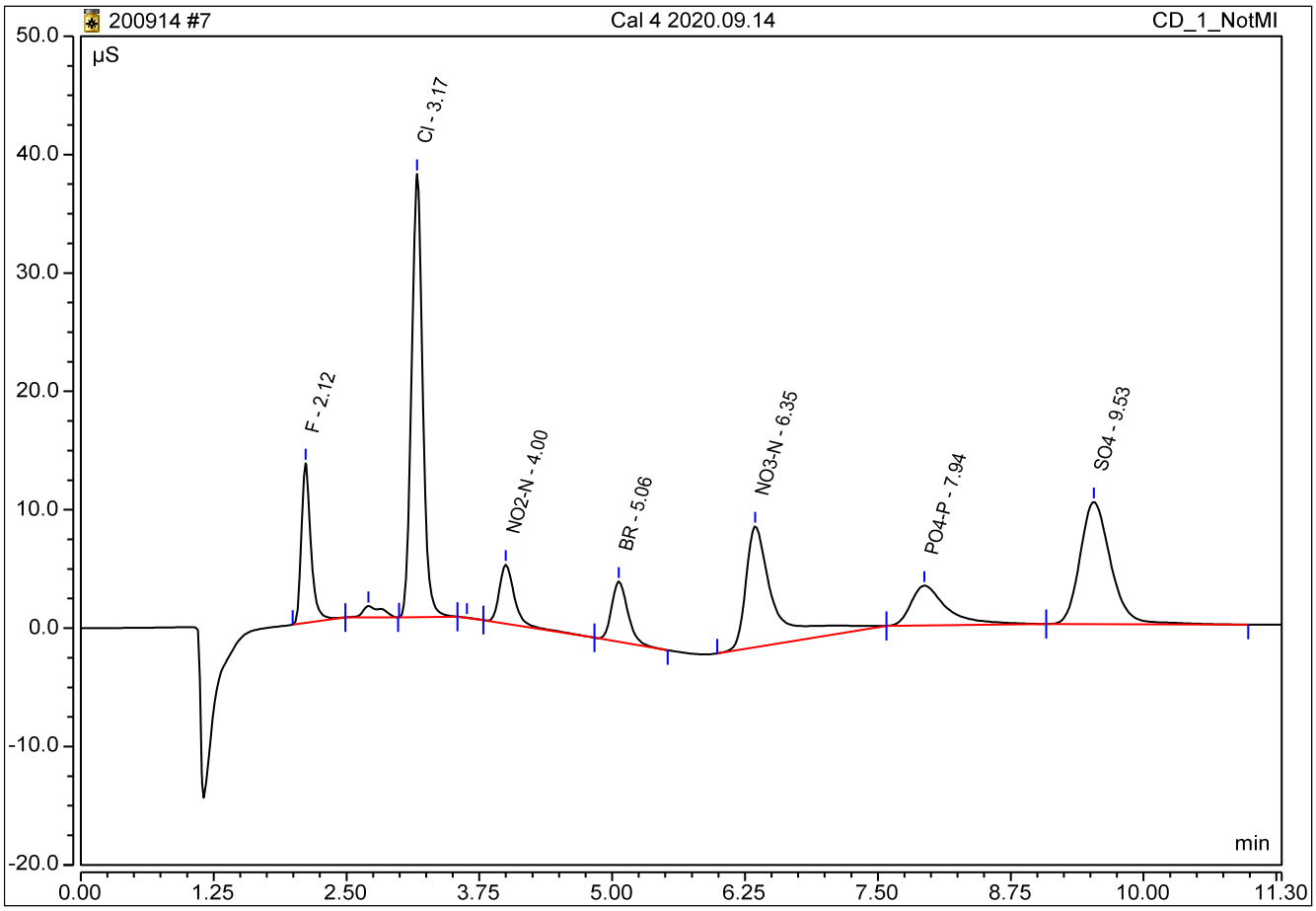


MI 5 NO3 GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**Cal 4 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 14:59**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	2.12	**F**	BMB	1.393	13.483	1.2743
3	3.17	**Cl**	BMB	4.523	37.438	5.0060
5	4.00	**NO2-N**	BMB	0.825	4.993	0.5579
6	5.06	**BR**	BMB	0.902	5.100	2.3764
7	6.35	**NO3-N**	BMB*	3.185	10.217	1.3799
8	7.94	**PO4-P**	BMB	1.327	3.365	2.4421
9	9.53	**SO4**	BMB	3.455	10.323	5.1723

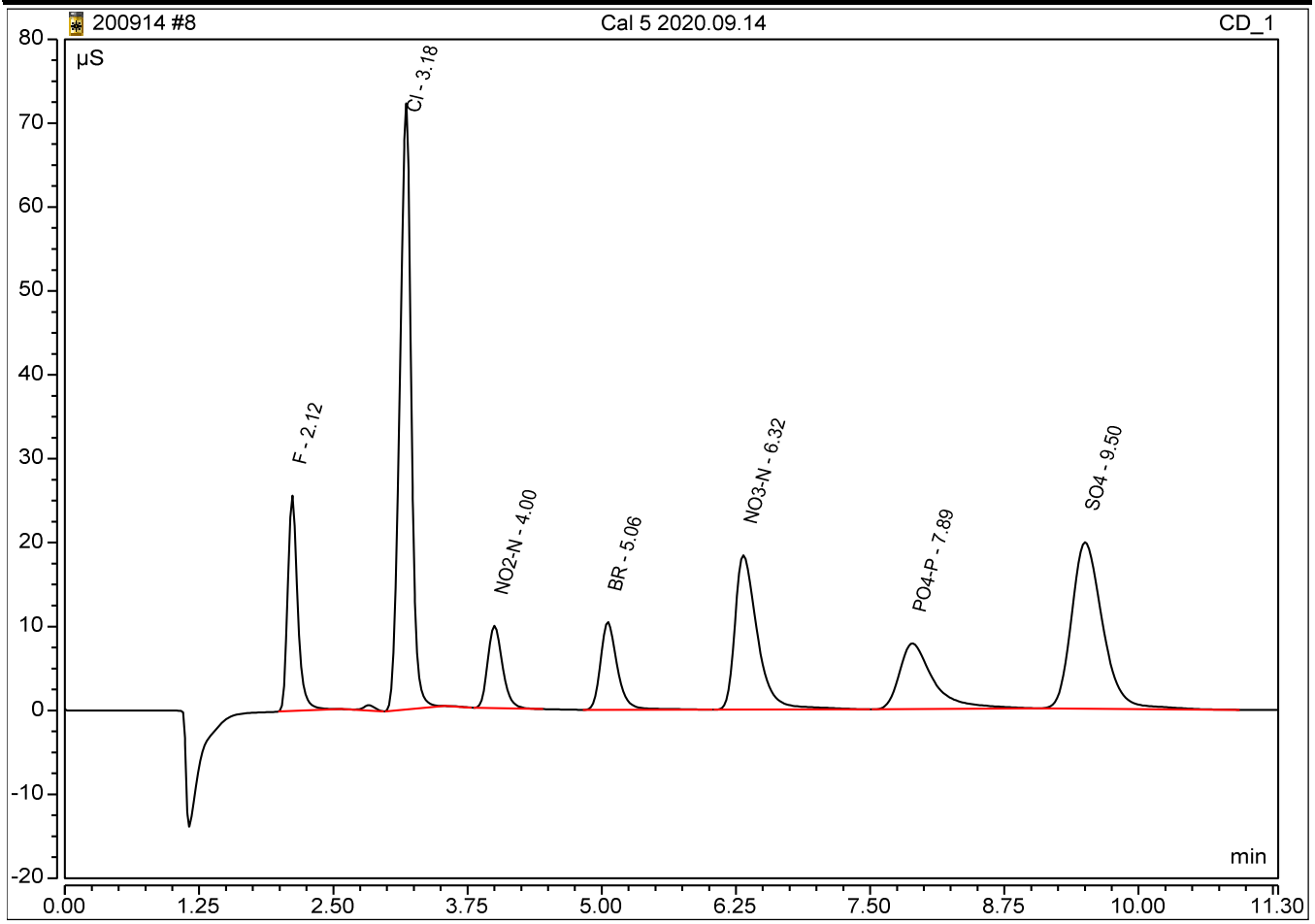


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**Cal 5 2020.09.14**	*Inj. Vol.:*	**100uL**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:14**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.12	**F**	BMB	2.764	25.690	2.67	2.5	107.0%
3	3.18	**Cl**	BMB	8.950	72.239	9.91	10	99.1%
5	4.00	**NO2-N**	BMB	1.558	9.806	1.05	1	105.3%
6	5.06	**BR**	BMB	1.911	10.461	5.03	5	100.6%
7	6.32	**NO3-N**	BMB	4.496	18.415	1.95	2	97.6%
8	7.89	**PO4-P**	BMB	2.876	7.859	4.63	5	92.6%
9	9.50	**SO4**	BMB	6.650	19.846	9.96	10	99.6%

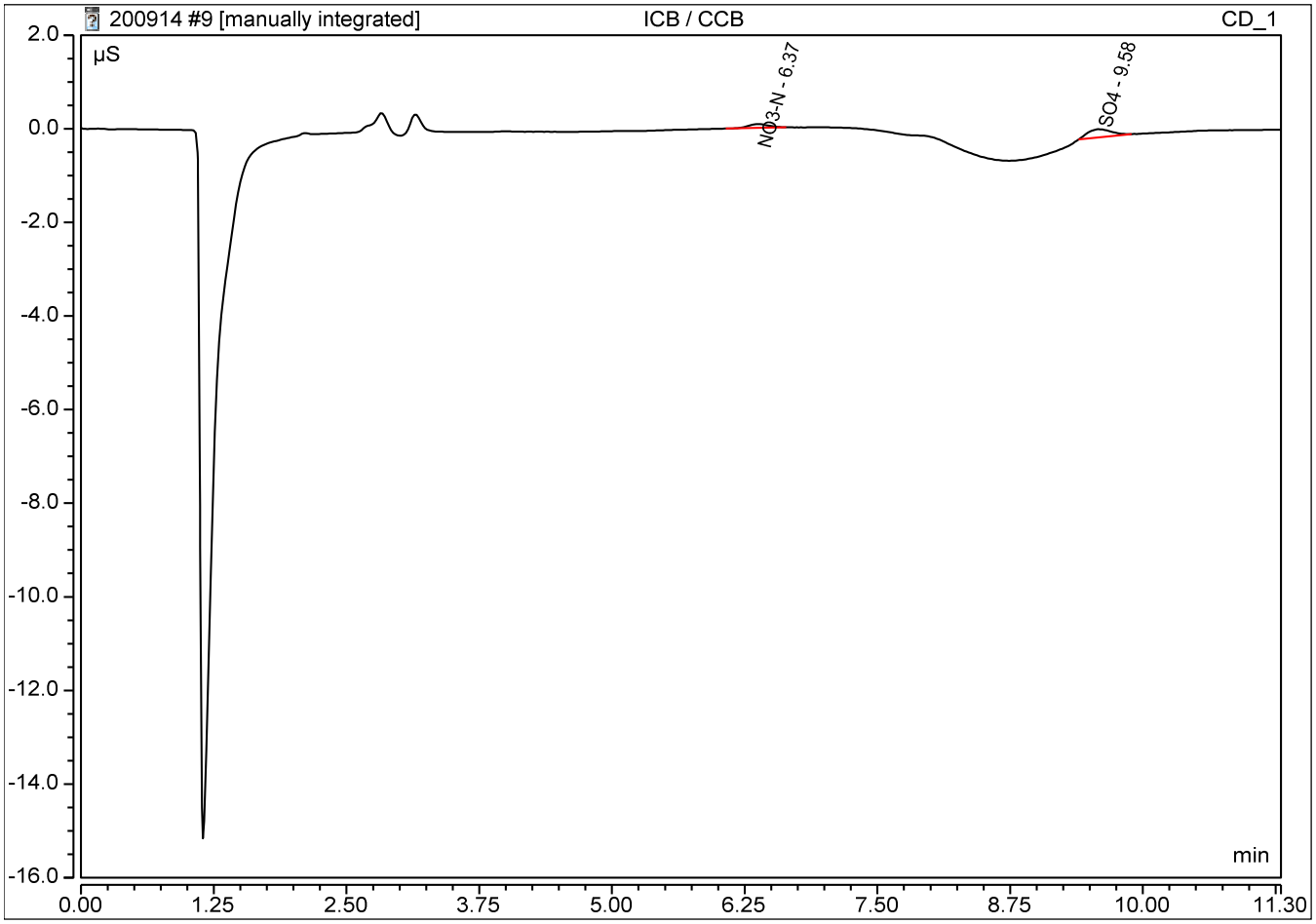


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**ICB / CCB**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:29**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	6.37	**NO3-N**	BMB*	0.017	0.081	0.01		
2	9.58	**SO4**	BMB*	0.046	0.175	0.07		

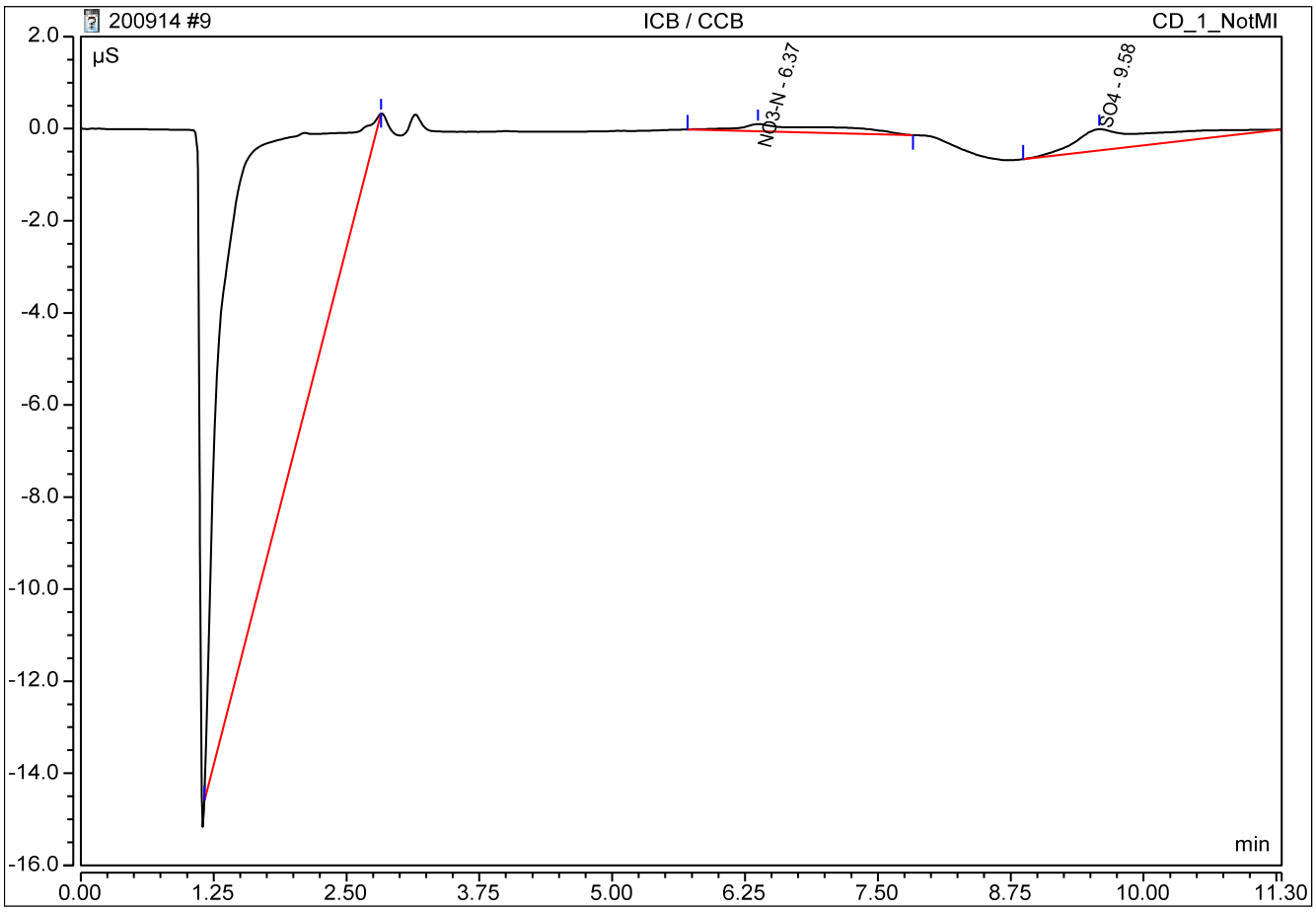


MI 5 F SO4 GA 9/14/20

Not Manipulated Peak Integration Report

Sample Name:	**ICB / CCB**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:29**	*Run Time:*	**11.30**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Ammount mg/L
1	6.37	**NO3-N**	BMB*	0.177	0.155	0.0769
2	9.58	**SO4**	BMB*	0.456	0.464	0.6832

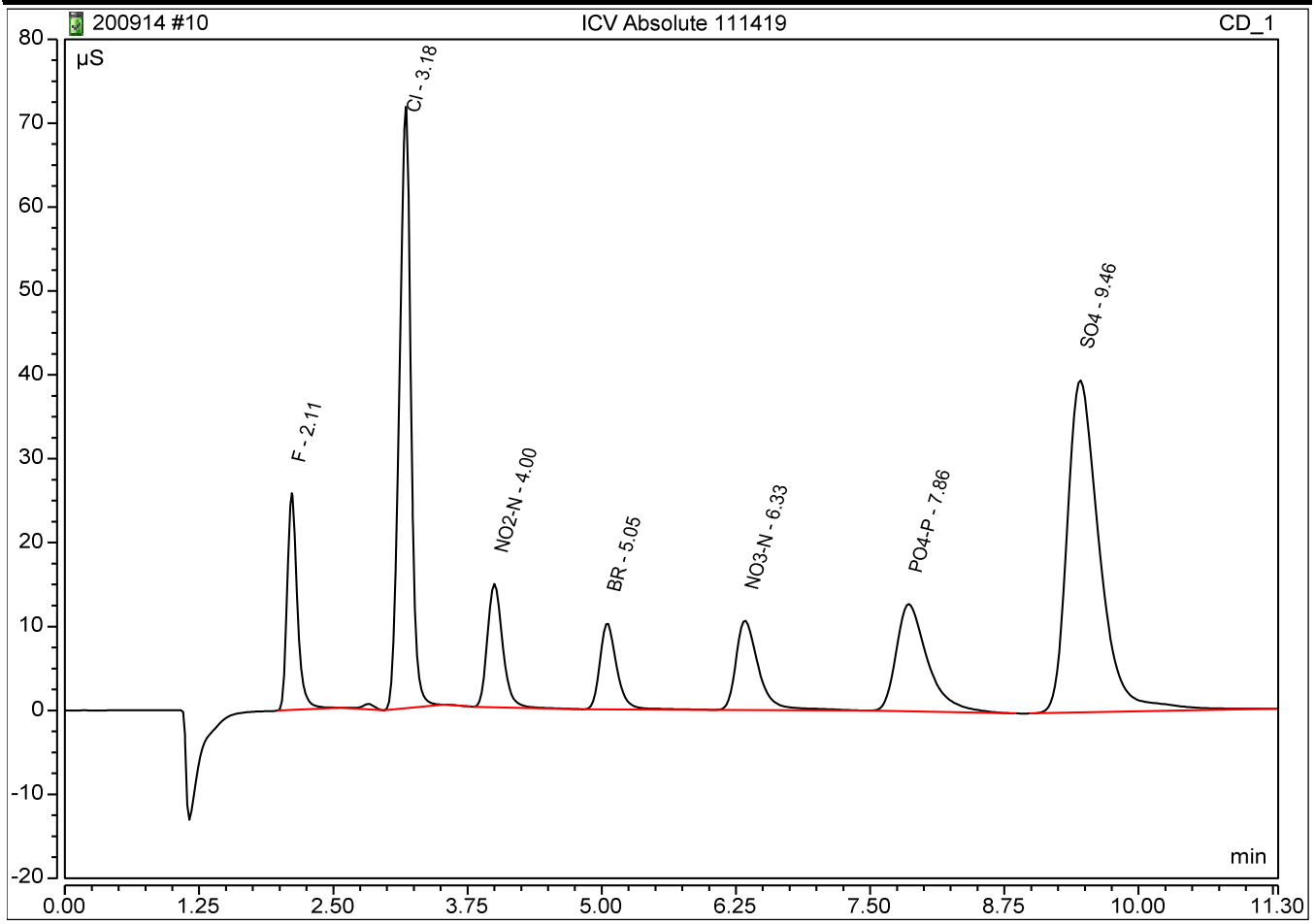


Logged on User: GA
Instrument: Charlie System_1
Sequence: 200914

Peak Integration Report

Sample Name:	**ICV Absolute 111419**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**14-Sep-2020 / 15:43**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.11	**F**	BMB	2.829	25.835	2.74	2.5	109.6%
3	3.18	**Cl**	BMB	8.963	71.696	9.92	10	99.2%
5	4.00	**NO2-N**	BMB	2.425	14.715	1.64	1.522334	107.7%
6	5.05	**BR**	BMB	1.878	10.287	4.95	5	98.9%
7	6.33	**NO3-N**	BMB	2.618	10.656	1.14	1.129525	100.7%
8	7.86	**PO4-P**	BMB	4.336	12.817	6.68	6.522	102.4%
9	9.46	**SO4**	BMB	13.880	39.594	20.79	20	103.9%

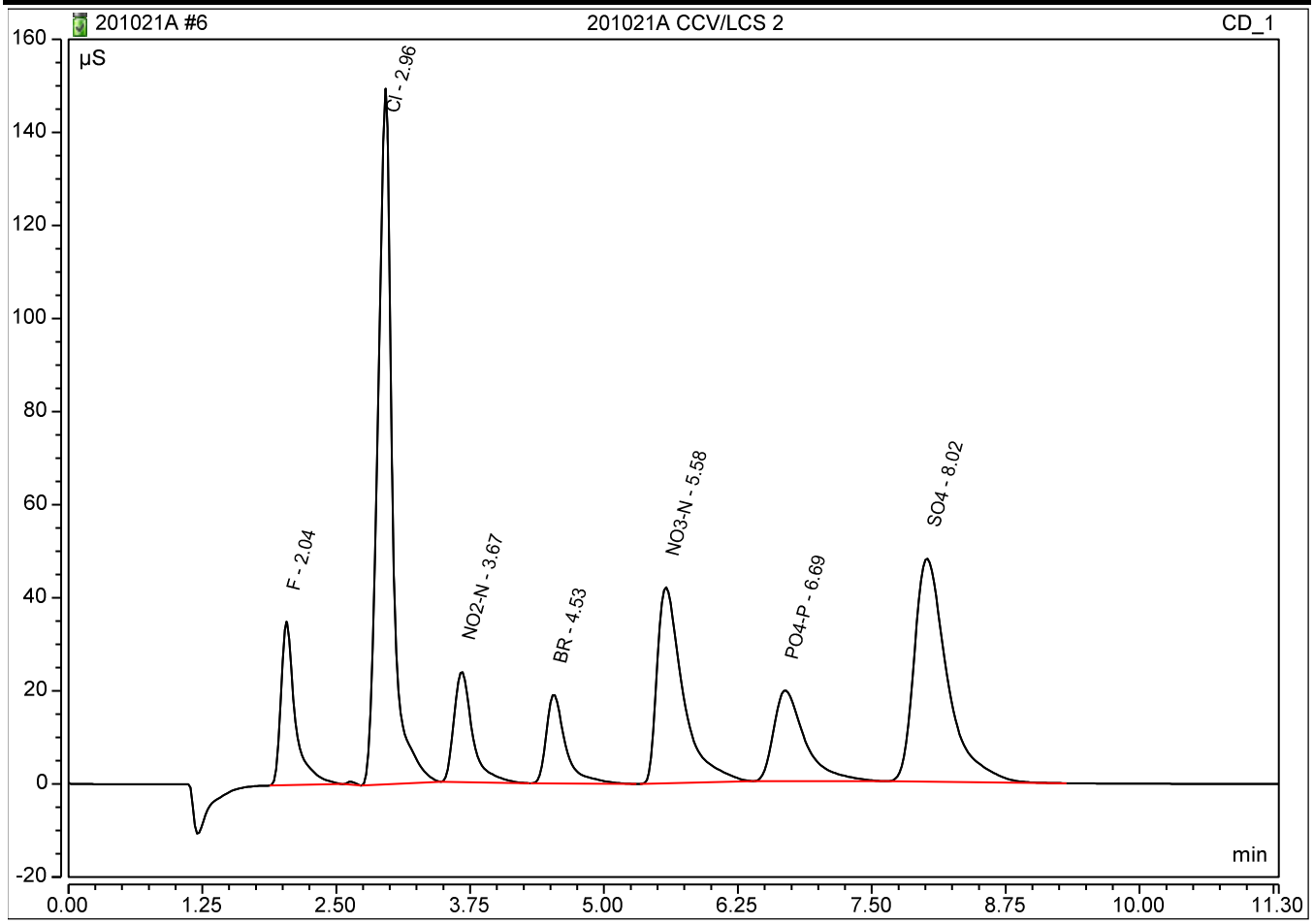


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201021A

Peak Integration Report

Sample Name:	**201021A CCV/LCS 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**21-Oct-2020 / 17:07**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.04	**F**	BMB	5.447	35.129	5.41	5	108.3%
3	2.96	**Cl**	BMB	23.428	149.471	25.93	25	103.7%
4	3.67	**NO2-N**	BMB	4.777	23.806	3.23	3.04	106.2%
5	4.53	**BR**	BMB	3.979	19.143	10.48	10	104.8%
6	5.58	**NO3-N**	BMB	11.886	42.112	5.16	5	103.2%
7	6.69	**PO4-P**	BMB	6.590	19.520	9.85	10	98.5%
8	8.02	**SO4**	BMB	17.151	47.939	25.68	25	102.7%

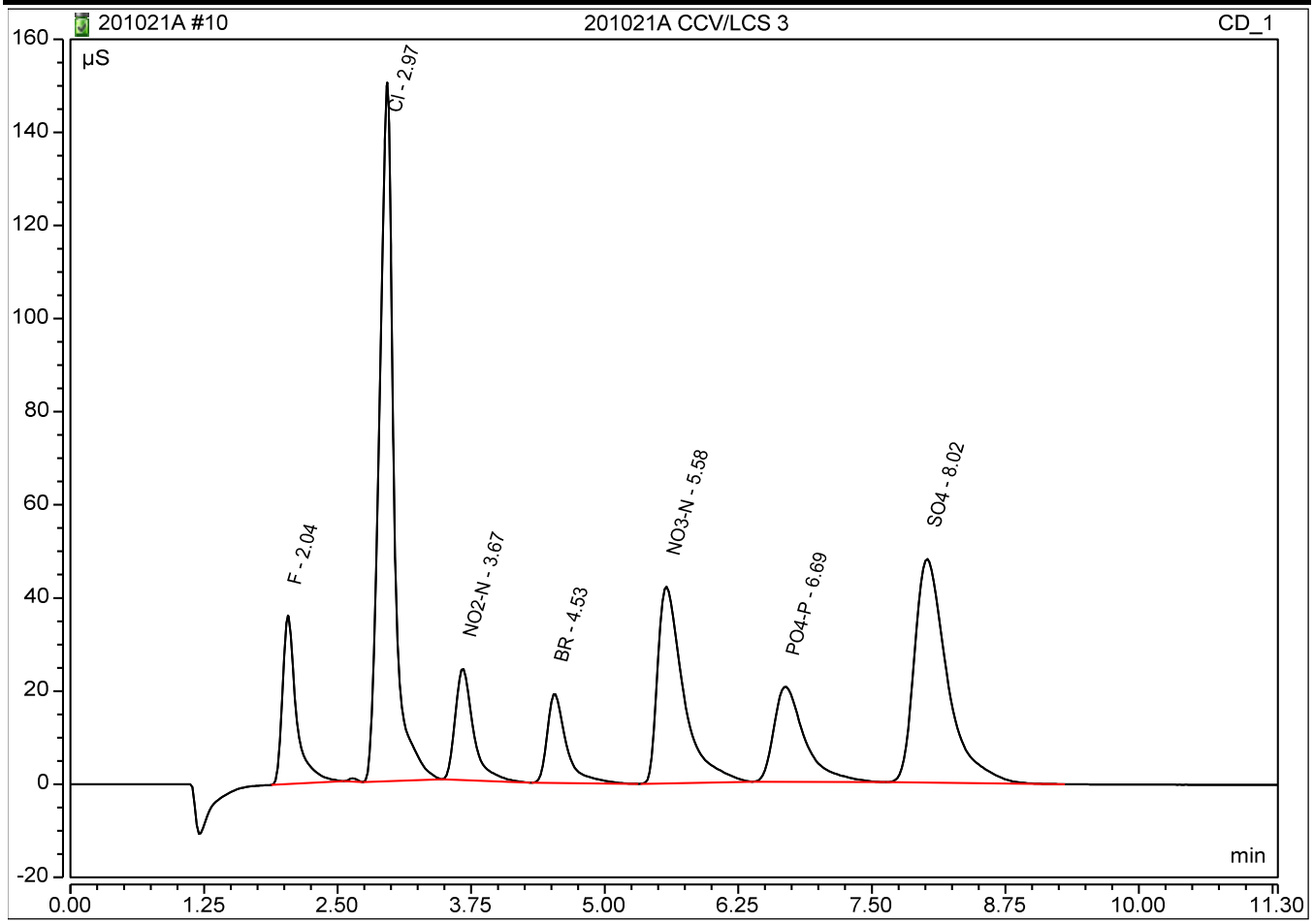


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201021A

Peak Integration Report

Sample Name:	**201021A CCV/LCS 3**	*Inj. Vol.:*	**100uL**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**21-Oct-2020 / 18:17**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.04	**F**	BMB	5.459	36.204	5.43	5	108.5%
3	2.97	**Cl**	BMB	23.553	150.068	26.07	25	104.3%
4	3.67	**NO2-N**	BMB	4.749	24.013	3.21	3.04	105.6%
5	4.53	**BR**	BMB	3.981	19.240	10.48	10	104.8%
6	5.58	**NO3-N**	BMB	11.930	42.305	5.18	5	103.6%
7	6.69	**PO4-P**	BMB	6.843	20.448	10.20	10	102.0%
8	8.02	**SO4**	BMB	17.135	48.077	25.66	25	102.6%

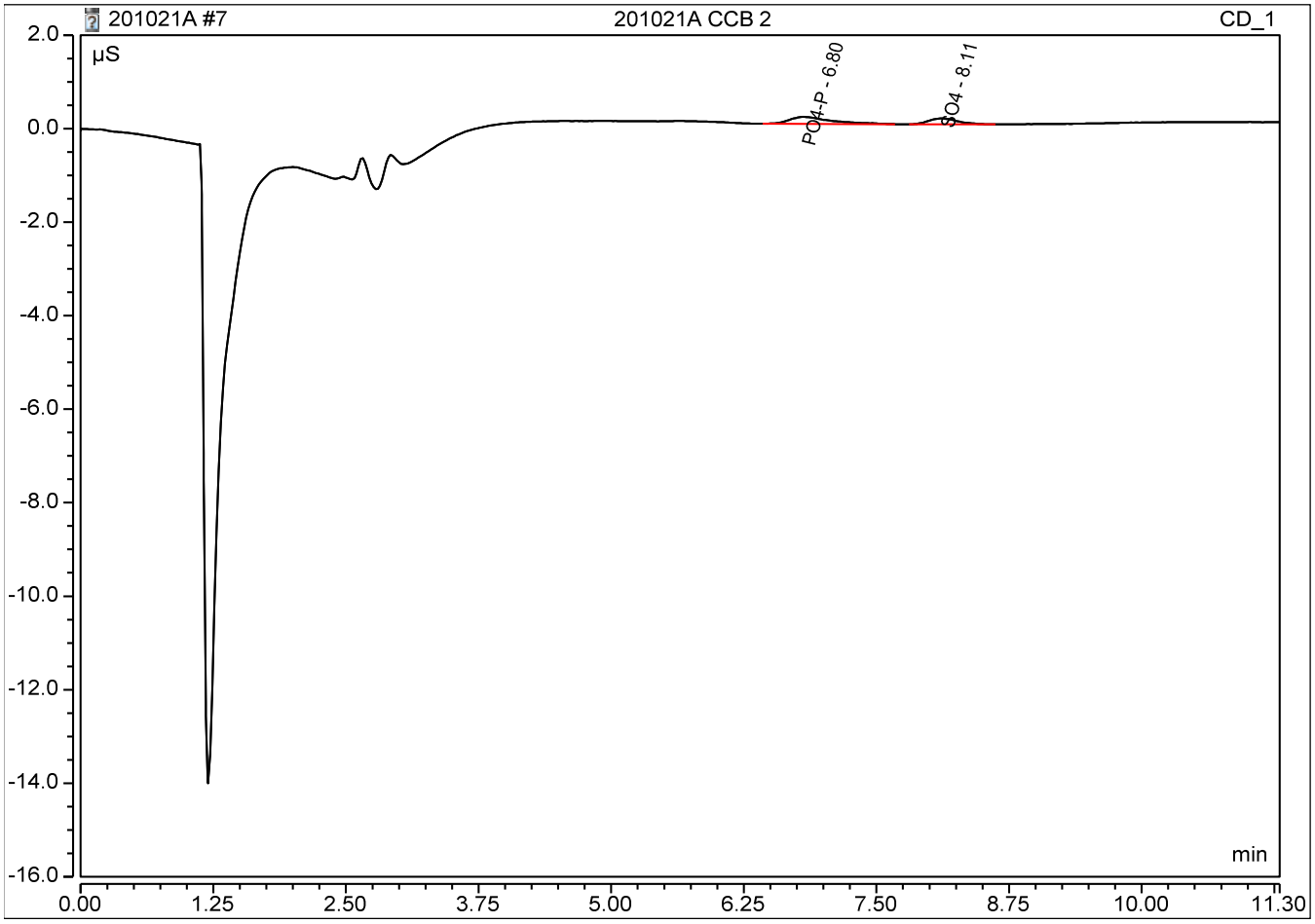


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201021A

Peak Integration Report

Sample Name:	**201021A CCB 2**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**21-Oct-2020 / 17:22**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	6.80	**PO4-P**	BMB	0.069	0.151	0.69		
2	8.11	**SO4**	BMB	0.042	0.131	0.06		

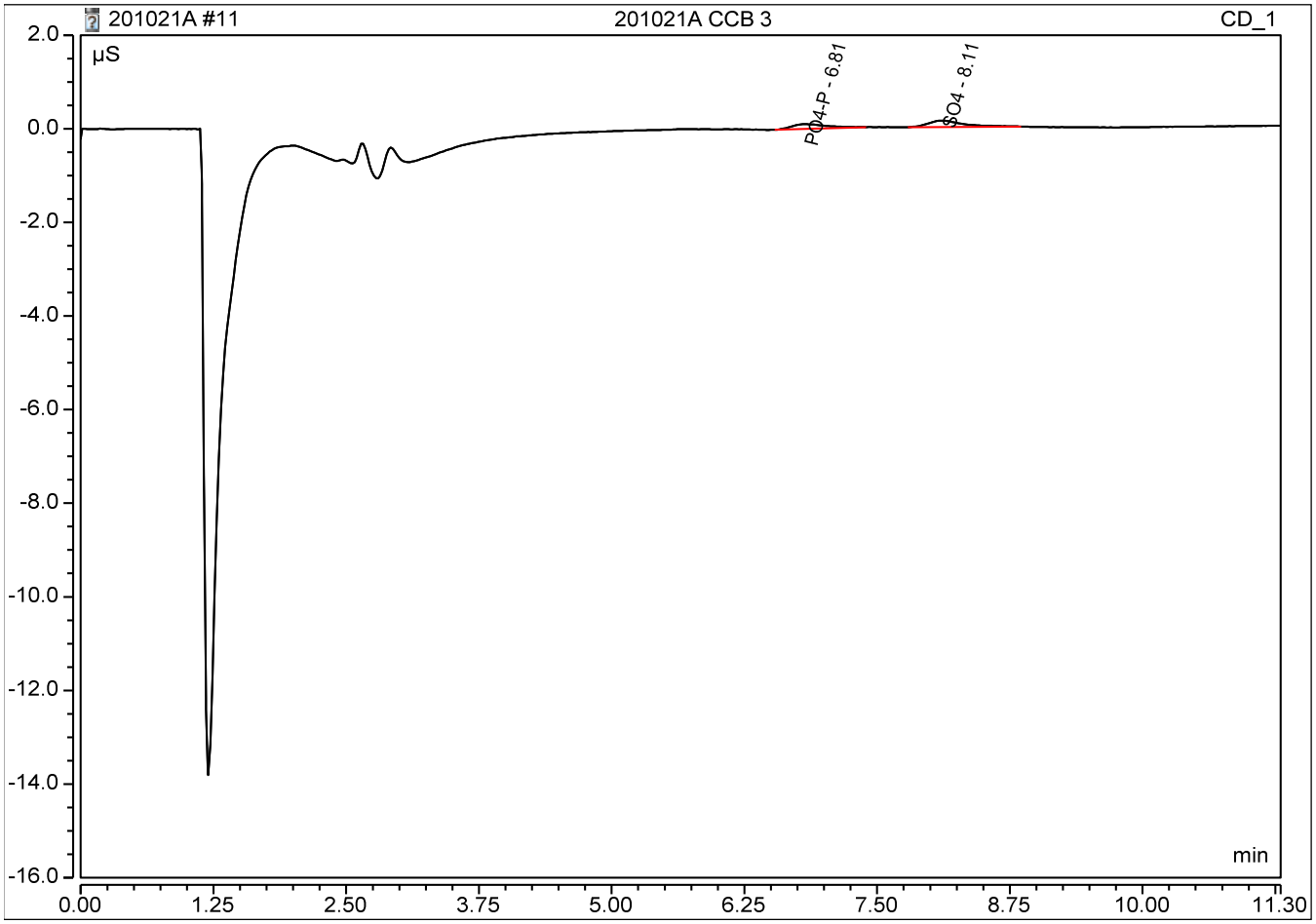


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201021A

Peak Integration Report

Sample Name:	**201021A CCB 3**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**21-Oct-2020 / 18:32**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	6.81	**PO4-P**	BMB	0.039	0.104	0.65		
2	8.11	**SO4**	BMB	0.055	0.140	0.08		



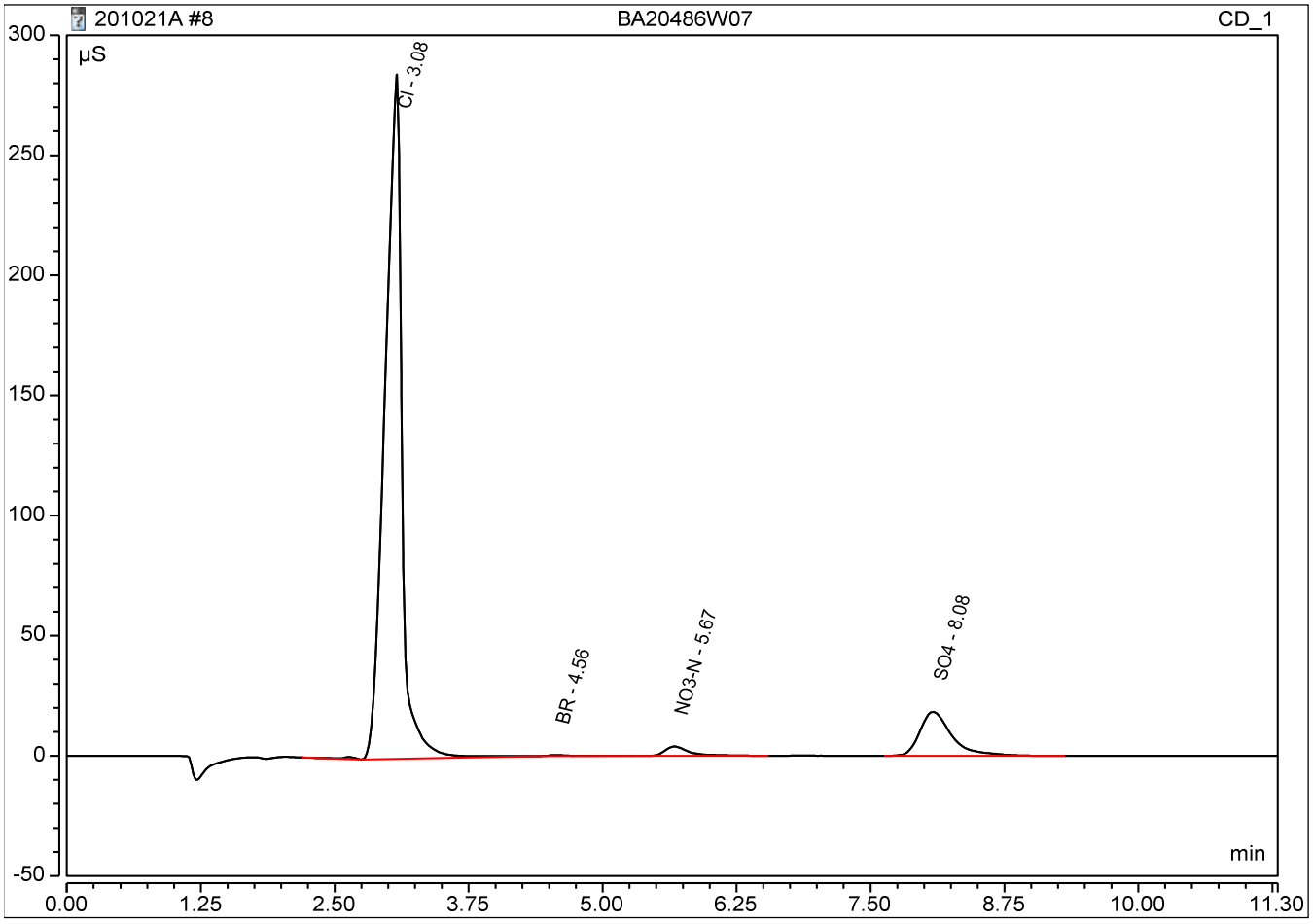
INORGANIC ANALYSIS
Raw Data

Logged on User: GA
Instrument: Charlie System_1
Sequence: 201021A

Peak Integration Report

Sample Name:	**BA20486W07**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**21-Oct-2020 / 17:37**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
2	3.08	**Cl**	BMB	51.938	284.926	57.49		
3	4.56	**BR**	BMB	0.080	0.379	0.21		
4	5.67	**NO3-N**	BMB	1.025	3.896	0.44		
5	8.08	**SO4**	BMB	6.315	18.316	9.46		

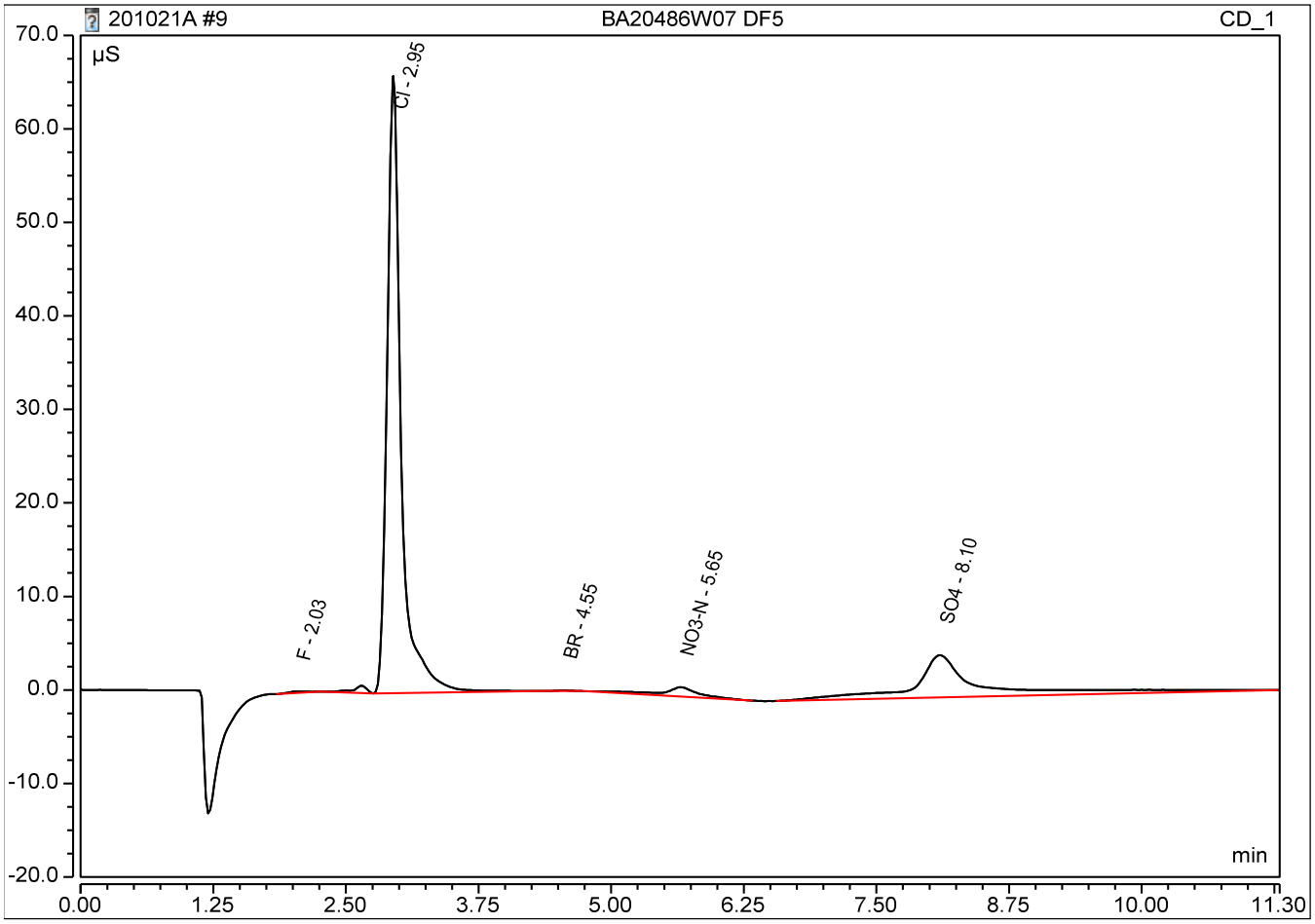


Logged on User: GA
Instrument: Charlie System_1
Sequence: 201021A

Peak Integration Report

Sample Name:	**BA20486W07 DF5**	*Inj. Vol.:*	**100uL**
Injection Type:	**Unknown**	*Dilution Factor:*	**5.00**
Program:	**Anion APM 2020.09.14**	*Operator:*	**chemist_wetlab**
Inj. Date / Time:	**21-Oct-2020 / 18:02**	*Run Time:*	**11.30**

No.	Time (min) min	Peak Name	Peak Type	Area (µS*min) µS*min	Height (µS) µS	Amount mg/L	Spike Level mg/L	Recovery
1	2.03	**F**	BMB	0.034	0.172	n.a.		
3	2.95	**Cl**	BMB	10.137	66.019	56.10		
4	4.55	**BR**	BMB	0.011	0.069	0.15		
5	5.65	**NO3-N**	BMB	0.430	0.995	0.93		
6	8.10	**SO4**	BMB	3.274	4.515	24.52		



Anion Chromatography Working Standard

Prep Date: 08/25/20

Exp Date: 08/26/20

Prep'd By (Initials): GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H2O	o2si	O2SI-062002-01-01	1000	**687393-38-40744**	**10/30/20**	312.5 µL	25 mL	Millipore Water	12.5
Ion Chromatography Standard Nitrite 1000 µg/mL in H2O	Inorganic Ventures	ICCL1	1000	**P2-CL675597-41353**	**01/15/23**	411 µL	25 mL	Millipore Water	5 as NO2-N
Ion Chromatography Standard Chloride 5000 µg/mL in H2O	Inorganic Ventures	ICNO21	1000	**N2-NOX672889-49601**	**01/30/23**	1250 µL	25 mL	Millipore Water	50
Ortho-Phosphate as P Standard	Agilent	ICC-005A	1000	**G34-CP-3323-49590**	**05/31/25**	625 µL	25 mL	Millipore Water	25
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H2O	Inorganic Ventures	P2-NOX675324	1000	**P2-NOX675324-49391**	**02/14/23**	250 µL	25 mL	Millipore Water	10
Bromide Standard	CPI international	4400-IC8M	1000	**1011817-12-49602**	**06/04/21**	625 µL	25 mL	Millipore Water	25
Sulfate Standard	Inorganic Ventures	ICS041	1000	**P2-SOX677315**	**04/03/23**	1250 µL	25 mL	Millipore Water	50

Anion Chromatography Calibration Curve

Prep Date: 09/14/20

Exp Date: 09/15/20

Prep'd By (Initials): GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. Range (ug/mL)	Reference To APPL Prep Date	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc. Range (µg/mL)
Anion Chromatography Working Standard	Varies	ICal1A	5.0-50.0	Prepared 08/25/20	09/15/20	2 µL	1000 µL	Millipore Water	0.02-0.20
Anion Chromatography Working Standard	Varies	ICal1	5.0-50.0	Prepared 08/25/20	09/15/20	4 µL	1000 µL	Millipore Water	0.04-0.40
Anion Chromatography Working Standard	Varies	ICal2	5.0-50.0	Prepared 08/25/20	09/15/20	20 µL	1000 µL	Millipore Water	0.1-1.0
Anion Chromatography Working Standard	Varies	ICal3	5.0-50.0	Prepared 08/25/20	09/15/20	50 µL	1000 µL	Millipore Water	0.25-2.5
Anion Chromatography Working Standard	Varies	ICal4	5.0-50.0	Prepared 08/25/20	09/15/20	100 µL	1000 µL	Millipore Water	0.5-5.0
Anion Chromatography Working Standard	Varies	ICal5	5.0-50.0	Prepared 08/25/20	09/15/20	200 µL	1000 µL	Millipore Water	1.0-10.0
Anion Chromatography Working Standard	Varies	ICal6	5.0-50.0	Prepared 08/25/20	09/15/20	500 µL	1000 µL	Millipore Water	2.5-25.0
Anion Chromatography Working Standard	Varies	ICal7	5.0-50.0	Prepared 08/25/20	09/15/20	700 µL	1000 µL	Millipore Water	3.5-35.0
Anion Chromatography Working Standard	Varies	ICal8	5.0-50.0	Prepared 08/25/20	09/15/20	1000 µL	1000 µL	Millipore Water	5.0-50.0

Anion Chromatography ICV Absolute COA 49866

Prep Date: See injection Log

Exp Date: 24 hours after prep

Prep'd By (Initials): Absolute

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Flouride	Absolute	50021	2.5	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	2.5
Nitrite	Absolute	50021	1.522334	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	1.522334
Chloride	Absolute	50021	1.522334	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	1.522334
O-Phosphate as P	Absolute	50021	6.522	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	6.522
Nitrate as N	Absolute	50021	1.129525	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	1.129525
Ion Chromatography Standard Bromide, 1000 µg/mL in H2O	Absolute	50021	5	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	5
Sulfate	Absolute	50021	20	**111419-49866**	**11/14/21**	1000 µL	1000 µL	N / A	20

Anion Chromatography CCV / LCS

Prep Date: See injection Log

Exp Date: 24 hours after prep

Prep'd By (Initials): GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H2O	o2si	O2SI-062002-01-01	1000	**687393-38-40744**	**10/30/20**	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Nitrite 1000 µg/mL in H2O	Inorganic Ventures	ICCL1	1000	**P2-CL675597-41353**	**01/15/23**	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Chloride 5000 µg/mL in H2O	Inorganic Ventures	ICNO21	1000	**N2-NOX672889-49601**	**01/30/23**	125 µL	25 mL	Millipore Water	25
Ortho-Phosphate as P Standard	Agilent	ICC-005A	1000	**G34-CP-3323-49590**	**05/31/25**	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H2O	Inorganic Ventures	P2-NOX675324	1000	**P2-NOX675324-49391**	**02/14/23**	125 µL	25 mL	Millipore Water	5
Bromide Standard	CPI international	4400-IC8M	1000	**1011817-12-49602**	**06/04/21**	250 µL	25 mL	Millipore Water	10
Sulfate Standard	Inorganic Ventures	ICS041	1000	**P2-SOX677315**	**04/03/23**	625 µL	25 mL	Millipore Water	25

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time		Type	Comment
1	BC1	Cal 1 2020.09.14	14/Sep/2020	11:17	Calibration Standard	
2	BC2	Cal 2 2020.09.14	14/Sep/2020	11:31	Calibration Standard	
3	BC3	Cal 3 2020.09.14	14/Sep/2020	11:46	Calibration Standard	
4	BC6	Cal 6 2020.09.14	14/Sep/2020	12:30	Calibration Standard	
5	BC7	Cal 7 2020.09.14	14/Sep/2020	12:44	Calibration Standard	
6	BC8	Cal 8 2020.09.14	14/Sep/2020	12:59	Calibration Standard	
7	BC4	Cal 4 2020.09.14	14/Sep/2020	14:59	Calibration Standard	
8	BC5	Cal 5 2020.09.14	14/Sep/2020	15:14	Calibration Standard	
9	R1	ICB / CCB	14/Sep/2020	15:29	Unknown	
10	BD1	ICV Absolute 111419	14/Sep/2020	15:43	Check Standard	

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time		Type	Comment
1	R2	201021A CCV/LCS 1	21/Oct/2020	10:36	Check Standard	
2	R1	201021A CCB 1	21/Oct/2020	10:50	Unknown	
3	GE3	BA19828W12	21/Oct/2020	16:23	Unknown	
4	GE4	BA19828W12 DF20	21/Oct/2020	16:38	Unknown	
5	GE5	BA19829W12	21/Oct/2020	16:53	Unknown	
6	R2	201021A CCV/LCS 2	21/Oct/2020	17:07	Check Standard	
7	R1	201021A CCB 2	21/Oct/2020	17:22	Unknown	
8	BE3	BA20486W07	21/Oct/2020	17:37	Unknown	
9	BE4	BA20486W07 DF5	21/Oct/2020	18:02	Unknown	
10	R2	201021A CCV/LCS 3	21/Oct/2020	18:17	Check Standard	
11	R1	201021A CCB 3	21/Oct/2020	18:32	Unknown	
12	R2	stop	21/Oct/2020	18:43	Unknown	

INORGANIC ANALYSIS
Calibration and Raw Data

Ferrous Iron — Rev 2, 04-05-19

Method SM3500Fe | Units mg/L | Instrument: Genisis Spectrometer
Analyte Fe2+ | QCG: 201023 | Wavelength: 510 nm
Analyist fjr | Final Volume: 50mL | Units: mg/L

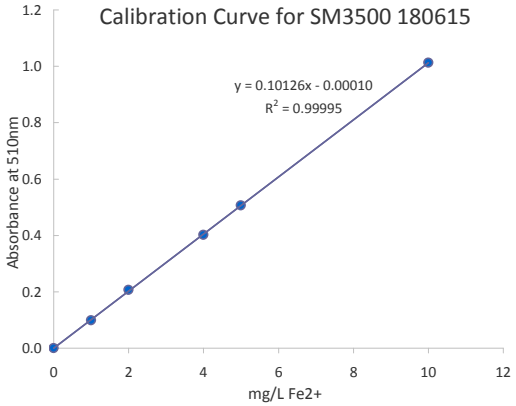
Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery
06/26/20	10:49	ICB	0.00	0.000	
06/26/20	10:49	Ical 1	1.00	0.099	97.9%
06/26/20	10:50	Ical 2	2.00	0.207	102.3%
06/26/20	10:51	Ical 3	4.00	0.402	99.3%
06/26/20	10:51	Ical 4	5.00	0.506	100.0%
06/26/20	10:52	Ical 5	10.00	1.013	100.1%
06/26/20	10:52	ICV	3.00	0.313	103.1%
06/26/20	10:53	ICB	0.00	0.000	

Slope	0.101255102
Intercept	-0.000102041
Coefficient of Determination	0.999948376

Algortithm Check:	Appl ID	Absorbance	Result
	LCS A201023	0.305	3.01

Result = (Absorbance-Raw Blk-Intercept)/ Slope

Test:	FJR	10/23/20	3.01



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
10/23/20	18:43	CCV 4.0 A201023	1	0.408	25mL		4.03	4.03	4.00	100.8%
10/23/20	18:42	CCB A201023	1	0.000	25mL		0.00	0.00		
10/23/20	18:43	LCS A201023	1	0.305	25mL		3.01	3.01	3.00	100.4%
10/23/20	18:44	LCSD A201023	1	0.311	25mL		3.07	3.07	3.00	102.4%
10/23/20	18:44	BA19198W01 PT	1	0.082	25mL		0.81	0.81		
10/23/20	18:45	BA20268W09	1	0.077	25mL		0.76	0.76		
10/23/20	19:46	BA20486W09	1	0.028	25mL		0.28	0.28		
10/23/20	18:59	BA20539W13	1	0.018	25mL		0.18	0.18		
10/23/20	19:00	BA20544W09	1	0.012	25mL		0.12	0.12		
10/23/20	19:03	BA20544W09 MS	1	0.324	25mL		3.20	3.20		
10/23/20	19:04	BA20544W09 MSD	1	0.325	25mL		3.21	3.21		
10/23/20	19:49	CCV 4.0 A201023	1	0.413	25mL		4.08	4.08	4.00	102.0%
10/23/20	19:49	CCB A201023	1	0.003	25mL		0.03	0.03		

Standard Prep

	Ferrous Iron Standards		Prep'd By (Initials)		FJR		
Prep Date	06/26/20						
Exp Date	06/26/21						
Stock Label	Supplier	Batch Number	Exp Date	Aliquot from Stock	Final Volume	Solvent	Ferrous Iron Concentration
Ferrous Ammonium Sulfate	J.T.Baker	0000184592	08/21/20	0.351	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Sulfate	Mallinckrodt	Lot 5056 KDRX	NA	0.250	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Iron CCV/LCS/MS/ICV			Prep'd By (Initials)		FJR		
Prep Date	See Injection Log						
Exp Date	24 Hours						
Initial Standard Information	Supplier	Batch Number	Exp Date	Final Standard Information			
Ferrous Iron CCV	J.T.Baker	0000184592	Prep Daily	500uL	25mL	Deionized water	4mg/L
Ferrous Iron ICV/LCS	Mallinckrodt	Lot 5056 KDRX	Prep Daily	375uL	25mL	Deionized water	3mg/L
	Ferrous Iron Calibration Curve		Prep'd By (Initials)		FJR		
Prep Date	06/26/20						
Exp Date	06/26/21						
Final Standard Information							
Point Label	Supplier	Batch Number	Exp Date	Aliquot from Stock (mL)	Final Volume	Solvent	Ferrous Iron Concentration
CCB	J.T.Baker	0000184592	06/26/21	0	25mL	Deionized water	0mg/L
Ical 1	J.T.Baker	0000184592	06/26/21	0.125	25mL	Deionized water	1mg/L
Ical 2	J.T.Baker	0000184592	06/26/21	0.25	25mL	Deionized water	2mg/L
Ical 3	J.T.Baker	0000184592	06/26/21	0.5	25mL	Deionized water	4mg/L
Ical 4	J.T.Baker	0000184592	06/26/21	0.625	25mL	Deionized water	5mg/L
Ical 5	J.T.Baker	0000184592	06/26/21	1.25	25mL	Deionized water	10mg/L
ICV	Mallinckrodt	Lot 5056 KDRX	06/26/21	0.375	25mL	Deionized water	3mg/L

Reagent Prep

Reagent	Chemical Lot #	Chemical	Chemical Expiration Date	Amount	Date Prep
Colorizer	0747C107	1,10-phenanthroline	na	0.2056	07/28/20
		HCL conc	na	enough to dissolve	
Buffer	Z28B018	Ammonia Acetate	na	249.2	04/29/20
	2018071399	Glacial Acetic Acid	na	700mL	

AQ2 Tray Report

Serial Number:	190170
Software Version:	2.1.0
Report Requested By:	Eric RR
Date & Time:	2020-10-27 12:04:03
Tray Number:	2
Tray Name:	201022A NO2 NO3 TOXN PT

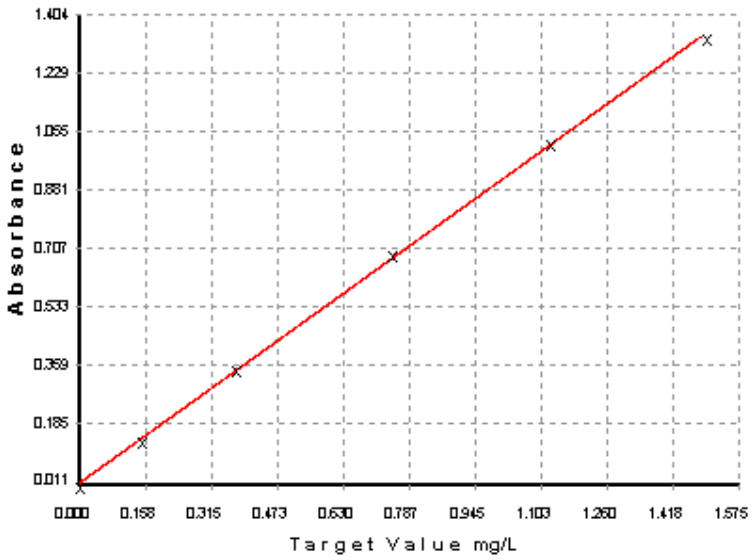
Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0109	-0.0048	0.0000	
S90	0.1417	0.1424	0.1500	-5.07
S91	0.3525	0.3795	0.3750	1.21
S92	0.6924	0.7618	0.7500	1.57
S93	1.0237	1.1345	1.1250	0.84
S94	1.3367	1.4866	1.5000	-0.89
S0	0.0216	0.0072	0.0000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	0.8
Calibration equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured absorbance
a =:	-1.704065E-002
b =:	1.124898E+000
Date & Time:	2020-10-22 18:56:36

Calibration Graph



Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
	S1	Standard 1	0.0109			0.010855				2020-10-22 18:49:15
	S90	Standard 90	0.1417			0.141738				2020-10-22 18:50:28
	S91	Standard 91	0.3525			0.352546				2020-10-22 18:51:41
	S92	Standard 92	0.6924			0.692366				2020-10-22 18:52:55
	S93	Standard 93	1.0237			1.023652				2020-10-22 18:54:08
	S94	Standard 94	1.3367			1.336715				2020-10-22 18:55:22
	S0	Standard 0	0.0216			0.021590				2020-10-22 18:56:36
	CCV	CCV .75	0.7664	mg/L		0.696490				2020-10-22 18:57:49
	CCB	CCB	0.0017	mg/L		0.016695				2020-10-22 18:59:03
3	U1	ICV NO2	0.7272	mg/L		0.661640				2020-10-22 19:00:17
4	U2	ICV NO3 TOXN	0.0003	mg/L		0.015450				2020-10-22 19:01:31
5	U3	ICB NO2 NO3 TOXN	-0.0054ELL	mg/L		0.010338				2020-10-22 19:02:44
6	U4	201022A Blk NO2 NO3 TOXN	-0.0054ELL	mg/L		0.010338				2020-10-22 19:04:00
7	U5	201022A LCS NO2	0.7249	mg/L		0.659560				2020-10-22 19:05:14
8	U6	201022A LCSD NO2	0.7354	mg/L		0.668885				2020-10-22 19:06:28
9	U7	201022A LCS NO3 TOXN	0.0003	mg/L		0.015450				2020-10-22 19:07:42
10	U8	201022A LCSD NO3 TOXN	-0.0057ELL	mg/L		0.010079				2020-10-22 19:08:57
11	U9	1 ppm NO2	1.0342	mg/L		0.934519				2020-10-22 19:10:11
12	U10	1 ppm NO3	0.0016	mg/L		0.016576				2020-10-22 19:11:26
	CCV	CCV .75	0.7824	mg/L		0.710655				2020-10-22 19:12:40
	CCB	CCB	0.0007	mg/L		0.015790				2020-10-22 19:13:54
13	U11	BA20486W08 pH 5.80	-0.0054ELL	mg/L		0.010364				2020-10-22 19:15:09
14	U12	BA20539W12 pH 6.94	-0.0059ELL	mg/L		0.009924				2020-10-22 19:16:23
15	U13	BA20539W12 MS pH 6.94	0.7648	mg/L		0.695048				2020-10-22 19:17:36

16	U14	BA20539W12 MSD pH 6.94	0.7537	mg/L	0.685151		2020-10-22 19:18:52
17	U15	BA20544W08 pH 6.27	-0.0005	mg/L	0.014731		2020-10-22 19:20:06
18	U16	BA20655W12	-0.0050ELL	mg/L	0.010687		2020-10-22 19:21:20
19	U17	BA20656W34	-0.0045	mg/L	0.011153		2020-10-22 19:22:33
20	U18	BA20657W06	-0.0060ELL	mg/L	0.009847		2020-10-22 19:23:47
21	U19	BA20658W06	-0.0049ELL	mg/L	0.010778		2020-10-22 19:25:00
22	U20	BA20659W08	-0.0061ELL	mg/L	0.009769		2020-10-22 19:26:13
	CCV	CCV .75	0.7852	mg/L	0.713126		2020-10-22 19:27:27
	CCB	CCB	0.0005	mg/L	0.015620		2020-10-22 19:28:40
23	U21	BA20660W06	-0.0048	mg/L	0.010855		2020-10-22 19:29:54
24	U22	BA20661W06	0.0007	mg/L	0.015803		2020-10-22 19:31:09
25	U23	BA20710W12	-0.0048	mg/L	0.010855		2020-10-22 19:33:43
26	U24	BA20711W06	0.0001	mg/L	0.015227		2020-10-22 19:35:56
27	U25	BA20712W06	0.0018	mg/L	0.016773		2020-10-22 19:38:14
28	U26	BA20713W06	-0.0004	mg/L	0.014757		2020-10-22 19:40:33
29	U27	BA20131W01 PT NO2	2.1250	mg/L	0.487407	x4.0000	2020-10-22 21:26:49
29	U27	BA20131W01 PT NO2	2.0950	mg/L	1.877505		2020-10-22 19:42:53
30	U28	BA20133W01 PT NO3 TOXN	0.0078	mg/L	0.022055		2020-10-22 19:45:13
	CCV	CCV .75	0.7269	mg/L	0.661351		2020-10-22 19:47:26
	CCB	CCB	-0.0009	mg/L	0.014339		2020-10-22 19:49:43
	CCV	CCV .75	0.7485	mg/L	0.680527		2020-10-22 21:22:05
	CCB	CCB	0.0002	mg/L	0.015345		2020-10-22 21:24:30
	CCV	CCV .75	0.7280	mg/L	0.662278		2020-10-22 21:29:09
	CCB	CCB	-0.0006	mg/L	0.014626		2020-10-22 21:30:17

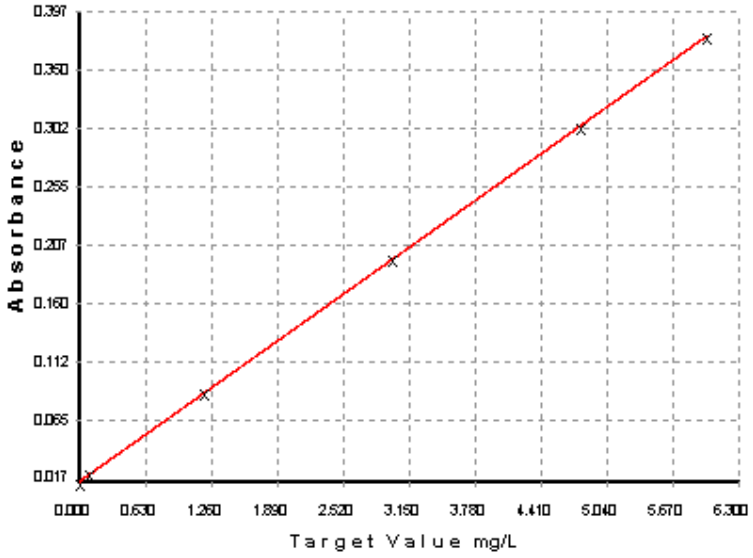
TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0172	-0.0167	0.0000	
S90	0.0253	0.1190	0.1000	18.97
S91	0.0902	1.2030	1.2000	0.25
S92	0.1976	2.9944	3.0000	-0.19
S93	0.3053	4.7924	4.8000	-0.16
S94	0.3781	6.0080	6.0000	0.13
S0	0.0178	-0.0057	0.0000	

Polynomial Order:	1
Correlation Coefficient:	1.0000
Carryover(%):	0.2
Calibration equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured absorbance
a =:	-3.032165E-001
b =:	1.669021E+001
Date & Time:	2020-10-22 20:07:56

Calibration Graph



Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
	S1	Standard 1	0.0172			0.017167				2020-10-22 19:54:46
	S90	Standard 90	0.0253			0.025296				2020-10-22 19:56:58
	S91	Standard 91	0.0902			0.090244				2020-10-22 19:59:10
	S92	Standard 92	0.1976			0.197576				2020-10-22 20:01:22
	S93	Standard 93	0.3053			0.305306				2020-10-22 20:03:33
	S94	Standard 94	0.3781			0.378138				2020-10-22 20:05:45
	S0	Standard 0	0.0178			0.017825				2020-10-22 20:07:56
	CCV	CCV	3.0702	mg/L		0.202117				2020-10-22 20:12:09
	CCB	CCB	-0.0154	mg/L		0.017246				2020-10-22 20:14:22
4	U2	ICV NO3 TOXN	3.0300	mg/L		0.199710				2020-10-22 20:16:36
5	U3	ICB NO2 NO3 TOXN	-0.0195ELL	mg/L		0.016996				2020-10-22 20:18:51
6	U4	201022A Blk NO2 NO3 TOXN	-0.0239ELL	mg/L		0.016734				2020-10-22 20:21:06
9	U7	201022A LCS NO3 TOXN	2.9977	mg/L		0.197775				2020-10-22 20:23:20
10	U8	201022A LCSD NO3 TOXN	2.9954	mg/L		0.197635				2020-10-22 20:25:34
12	U10	1 ppm NO3	0.9807	mg/L		0.076927				2020-10-22 20:27:48
13	U11	BA20486W08 pH 5.80	0.4799	mg/L		0.046919				2020-10-22 20:30:02
14	U12	BA20539W12 pH 6.94	0.3727	mg/L		0.040496				2020-10-22 20:32:16
15	U13	BA20539W12 MS pH 6.94	3.6202	mg/L		0.235071				2020-10-22 20:34:30
16	U14	BA20539W12 MSD pH 6.94	3.4775	mg/L		0.226521				2020-10-22 20:36:44
	CCV	CCV	2.9950	mg/L		0.197615				2020-10-22 20:38:59
	CCB	CCB	0.0094	mg/L		0.018733				2020-10-22 20:41:14
17	U15	BA20544W08 pH 6.27	0.3852	mg/L		0.041245				2020-10-22 20:43:29
18	U16	BA20655W12	4.5665	mg/L		0.291772				2020-10-22 20:45:43
19	U17	BA20656W34	4.5760	mg/L		0.292341				2020-10-22 20:47:58
20	U18	BA20657W06	0.0864	mg/L		0.023346				2020-10-22 20:50:14
21	U19	BA20658W06	5.1892	mg/L		0.329078				2020-10-22 20:52:28
22	U20	BA20659W08	4.6378	mg/L		0.296046				2020-10-22 20:54:43
23	U21	BA20660W06	5.2565	mg/L		0.333111				2020-10-22 20:56:57
24	U22	BA20661W06	2.2677	mg/L		0.154039				2020-10-22 20:59:12
25	U23	BA20710W12	4.4418	mg/L		0.284297				2020-10-22 20:59:50
26	U24	BA20711W06	1.5925	mg/L		0.113585				2020-10-22 21:00:55
	CCV	CCV	3.1001	mg/L		0.203910				2020-10-22 21:01:51
	CCB	CCB	-0.0015	mg/L		0.018075				2020-10-22 21:02:47
27	U25	BA20712W06	1.2178	mg/L		0.091131				2020-10-22 21:03:44
28	U26	BA20713W06	0.0789	mg/L		0.022893				2020-10-22 21:04:40
30	U28	BA20133W01 PT NO3 TOXN	22.9693	mg/L		0.155789	x10.0000			2020-10-22 21:35:51
30	U28	BA20133W01 PT NO3 TOXN	21.6366	mg/L		1.314534				2020-10-22 21:05:36
	CCV	CCV	3.1733	mg/L		0.208294				2020-10-22 21:06:33
	CCB	CCB	-0.0064	mg/L		0.017785				2020-10-22 21:07:29
	CCV	CCV	3.0681	mg/L		0.201996				2020-10-22 21:33:58

CCB	CCB	-0.0053	mg/L	0.017851	2020-10-22 21:34:55
CCV	CCV	3.2016	mg/L	0.209991	2020-10-22 21:36:48
CCB	CCB	0.0050	mg/L	0.018470	2020-10-22 21:37:44

Nitrate-N

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
4	U2	ICV NO3 TOXN	3.0296	mg/L		0.000000				2020-10-22 20:16:36
4	U2	ICV NO3 TOXN				0.000000				2020-10-22 20:16:36
5	U3	ICB NO2 NO3 TOXN	-0.0141	mg/L		0.000000				2020-10-22 20:18:51
5	U3	ICB NO2 NO3 TOXN				0.000000				2020-10-22 20:18:51
6	U4	201022A Blk NO2 NO3 TOXN	-0.0185	mg/L		0.000000				2020-10-22 20:21:06
6	U4	201022A Blk NO2 NO3 TOXN				0.000000				2020-10-22 20:21:06
9	U7	201022A LCS NO3 TOXN	2.9973	mg/L		0.000000				2020-10-22 20:23:20
9	U7	201022A LCS NO3 TOXN				0.000000				2020-10-22 20:23:20
10	U8	201022A LCSD NO3 TOXN	3.0011	mg/L		0.000000				2020-10-22 20:25:34
10	U8	201022A LCSD NO3 TOXN				0.000000				2020-10-22 20:25:34
12	U10	1 ppm NO3	0.9791	mg/L		0.000000				2020-10-22 20:27:48
12	U10	1 ppm NO3				0.000000				2020-10-22 20:27:48
13	U11	BA20486W08 pH 5.80	0.4853	mg/L		0.000000				2020-10-22 20:30:02
13	U11	BA20486W08 pH 5.80				0.000000				2020-10-22 20:30:02
14	U12	BA20539W12 pH 6.94	0.3785	mg/L		0.000000				2020-10-22 20:32:16
14	U12	BA20539W12 pH 6.94				0.000000				2020-10-22 20:32:16
15	U13	BA20539W12 MS pH 6.94	2.8554	mg/L		0.000000				2020-10-22 20:34:30
15	U13	BA20539W12 MS pH 6.94				0.000000				2020-10-22 20:34:30
16	U14	BA20539W12 MSD pH 6.94	2.7238	mg/L		0.000000				2020-10-22 20:36:44
16	U14	BA20539W12 MSD pH 6.94				0.000000				2020-10-22 20:36:44
17	U15	BA20544W08 pH 6.27	0.3856	mg/L		0.000000				2020-10-22 20:43:29
17	U15	BA20544W08 pH 6.27				0.000000				2020-10-22 20:43:29
18	U16	BA20655W12	4.5715	mg/L		0.000000				2020-10-22 20:45:43
18	U16	BA20655W12				0.000000				2020-10-22 20:45:43
19	U17	BA20656W34	4.5805	mg/L		0.000000				2020-10-22 20:47:58
19	U17	BA20656W34				0.000000				2020-10-22 20:47:58
20	U18	BA20657W06	0.0924	mg/L		0.000000				2020-10-22 20:50:14
20	U18	BA20657W06				0.000000				2020-10-22 20:50:14
21	U19	BA20658W06	5.1941	mg/L		0.000000				2020-10-22 20:52:28
21	U19	BA20658W06				0.000000				2020-10-22 20:52:28
22	U20	BA20659W08	4.6439	mg/L		0.000000				2020-10-22 20:54:43
22	U20	BA20659W08				0.000000				2020-10-22 20:54:43
23	U21	BA20660W06	5.2613	mg/L		0.000000				2020-10-22 20:56:57
23	U21	BA20660W06				0.000000				2020-10-22 20:56:57
24	U22	BA20661W06	2.2670	mg/L		0.000000				2020-10-22 20:59:12
24	U22	BA20661W06				0.000000				2020-10-22 20:59:12
25	U23	BA20710W12	4.4466	mg/L		0.000000				2020-10-22 20:59:50
25	U23	BA20710W12				0.000000				2020-10-22 20:59:50
26	U24	BA20711W06	1.5925	mg/L		0.000000				2020-10-22 21:00:55
26	U24	BA20711W06				0.000000				2020-10-22 21:00:55
27	U25	BA20712W06	1.2159	mg/L		0.000000				2020-10-22 21:03:44
27	U25	BA20712W06				0.000000				2020-10-22 21:03:44
28	U26	BA20713W06	0.0793	mg/L		0.000000				2020-10-22 21:04:40
28	U26	BA20713W06				0.000000				2020-10-22 21:04:40
30	U28	BA20133W01 PT NO3 TOXN	22.9615	mg/L		0.000000				2020-10-22 21:35:51
30	U28	BA20133W01 PT NO3 TOXN				0.000000				2020-10-22 21:35:51

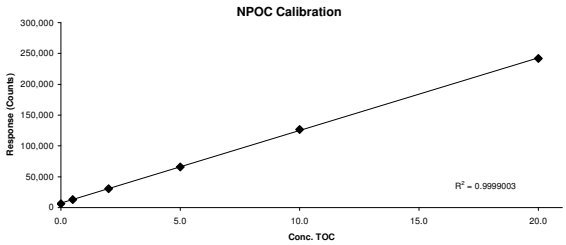
TOTAL ORGANIC CARBON

Method: WetChem | Units mg/L | Instrument: Tic Toc

Analyte: TOC | QCG: 201021A

Analyist: AAR | Final Volume: 40mL

Date	Time	Appl ID	[TOC]	Raw	% Recovery
06/11/20	0:01	QC blank	0.00	6172	
06/11/20	0:41	Ical 1	0.50	13120	
06/11/20	1:19	Ical 2	2.00	30622	
06/11/20	1:58	Ical 3	5.00	66151	
06/11/20	2:37	Ical 4	10.00	126505	
06/11/20	3:16	Ical 5	20.00	241922	
06/11/20	18:06	ICB	0.00	6336	
06/11/20	18:46	ICV	4.99	65817	99.8%



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Filter Blank Subtract	Calc Conc	Result	Range (mg/L)	QC True	% Recovery
2020-10-22	01:15 AM	CCV	1	58850	40mL	0.000	4.516	4.52	0.20	5.00	90.3%
2020-10-22	01:54 AM	CCB	1	4418	40mL	0.000	0	0.00	0.00		
2020-10-22	02:34 AM	201021A LCS	1	60132	40mL	0.000	4.624	4.62	0.20	5.00	92.5%
2020-10-22	03:14 AM	201021A LCSD	1	61580	40mL	0.000	4.747	4.75	0.10	5.00	94.9%
2020-10-22	03:54 AM	BA20054W08 MS	1	57914	40mL	0.000	4.773	4.77	0.02		
2020-10-22	04:32 AM	BA20476W08	1	4969	40mL	0.000	0.279	0.28	0.00		
2020-10-22	05:07 AM	BA20477W09	1	5708	40mL	0.000	0.341	0.34	0.00		
2020-10-22	05:43 AM	BA20478W13	1	4615	40mL	0.000	0.248	0.25	0.06		
2020-10-22	06:19 AM	BA20478W13 DUP	1	5615	40mL	0.000	0.333	0.33	0.01		
2020-10-22	06:55 AM	BA20478W22 MS	1	58159	40mL	0.000	4.793	4.79	0.48		
2020-10-22	07:32 AM	BA20478W22 MSD	1	58995	40mL	0.000	4.864	4.86	0.00		
2020-10-22	08:09 AM	BA20486W05	1	5090	40mL	0.000	0.288	0.29	0.01		
2020-10-22	08:46 AM	CCV	1	59938	40mL	0.000	4.608	4.61	0.20	5.00	92.2%
2020-10-22	09:25 AM	CCB	1	4380	40mL	0.000	0	0.00	0.00		

Name of Final Standard TOC Calibration Curve — **Prep'd By (Initials)** AR

Prep Date 06/11/20

Exp Date 06/11/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	20 uL	40 mL	DI Water	0.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	250 uL	40 mL	DI Water	5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	500 uL	40 mL	DI Water	10 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	1000 uL	40 mL	DI Water	20 ppm

Name of Final Standard ICV (TOC) — **Prep'd By (Initials)** AR

Prep Date 06/11/20

Exp Date 06/11/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1000 PPM ICV TOC Intermediate	APPL Inc.	Prep: 2/11/19	1000 mg/L	6465171-49409	06/30/21	500 uL	40mL	DI Water	10 ppm

Name of Final Standard CCV (TOC) — **Prep'd By (Initials)** AR

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	6465171-49409	06/30/21	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard TOC_LCS/LCSD — **Prep'd By (Initials)** AR

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	6465171-49409	06/30/21	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard TOC_MS/MSD — **Prep'd By (Initials)** AR

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	6465171-49409	06/30/21	200 uL	40 mL	sample	5 ppm

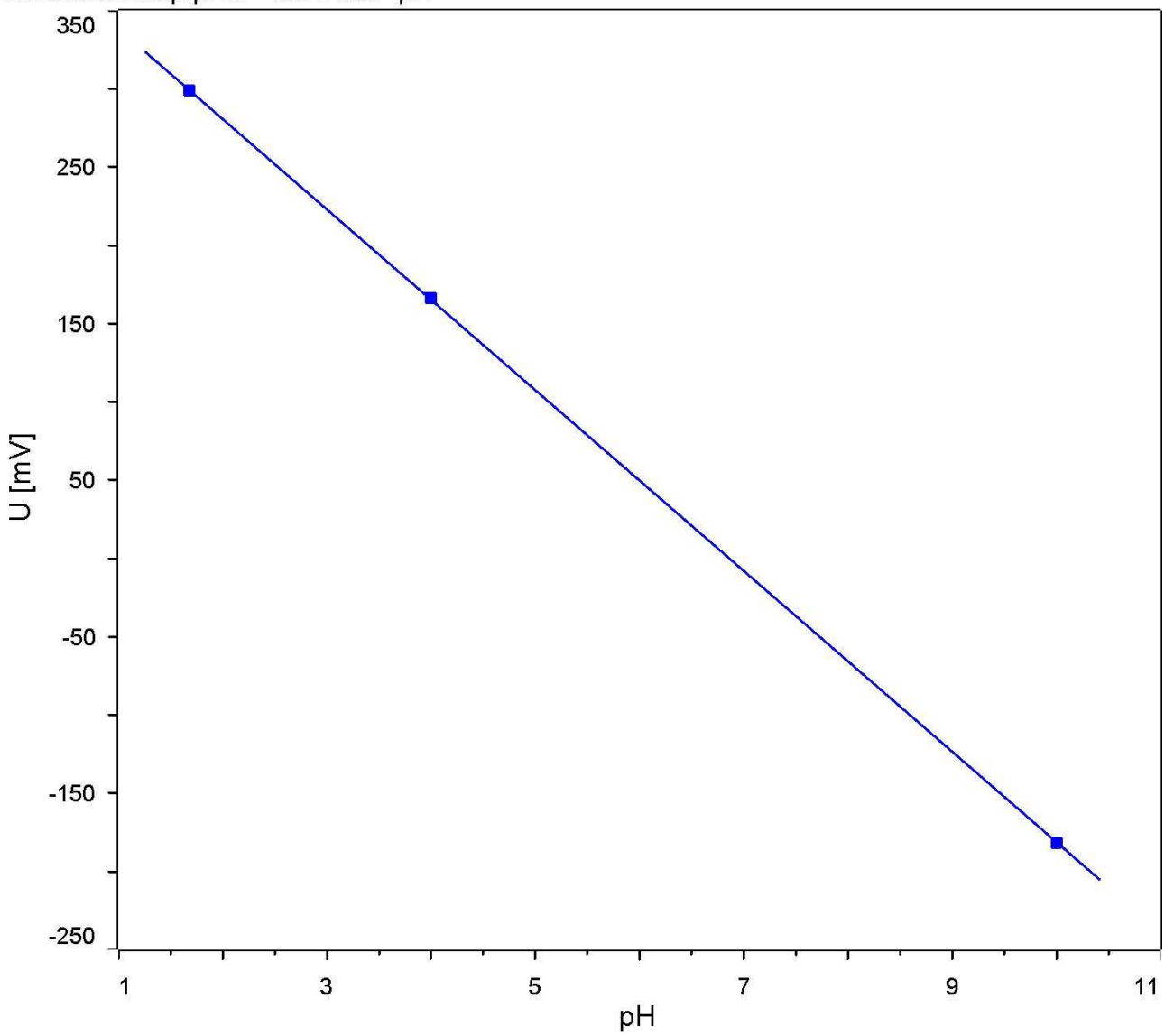
Timao Calibration Curve

2020-10-21 14:30:22

Calculations

Buffer 7	6.99	
Formula	'MEAS pH.EME'	
MEAS pH.EME	6.9929	
Slope	99.60	
Formula	'Calibration loop pH.SLO'	
Calibration loop pH.SLO	99.6	
pH(as)	6.86	
Formula	'Calibration loop pH.ENP'	
Calibration loop pH.ENP	6.863	
Res19	19.1	°C
Formula	'CAL MEAS pH.ETE'	
CAL MEAS pH.ETE	19.0843	

Calibration loop pH.1 - CAL LOOP pH



Metrohm 814/809 Titrando Data

Sample ID	Analysis Date/Time	Method	Titration Volume (to 8.3)	Titration Volume (total)	OH	CO3	HCO3	Total Alk	Unit	Sample Vol	N	Batch	Initials
BA20486W07	2020-10-21 19:47:57 UTC-7	Alkalinity	0.000	1.590	0.00	0.00	64.55	64.55	mg/L	25 mL	0.0203	201021A	AR
201021A LCS	2020-10-21 17:42:47 UTC-7	Alkalinity	0.222	6.630	0.00	18.03	251.15	269.18	mg/L	25 mL	0.0203	201021A	AR
201021A LCSD	2020-10-21 16:47:24 UTC-7	Alkalinity	0.304	6.176	0.00	24.68	226.06	250.75	mg/L	25 mL	0.0203	201021A	AR
201021A BLK	2020-10-21 16:36:27 UTC-7	Alkalinity	0.000	0.030	0.00	0.00	1.22	1.22	mg/L	25 mL	0.0203	201021A	AR

Tiamo Alkalinity Standard Prep

Prep'd By (Initials): AR

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Unit	Conc	Lot Number - QA Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc
Sulfuric Acid (H2SO4)	J.T.Baker	NA	NA	**167828**	**NA**	**NA**	PURCHASED	NA	NA	NA
0.10N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.1N	**167828**	**03/06/20**	**03/06/21**	3ml	1L	DI	0.10N
0.02N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.02N	**167828**	**03/06/20**	**03/06/21**	200mL	1L	DI	0.02N
Inorganic Spike(NaHCO3)	BDH	NA	NA	**19K0856189**	**04/09/20**	**NA**	PURCHASED	NA	NA	NA
Inorganic Spike Solution	BDH	Milligrams/Liters	250mg/L	**1575C510**	**07/27/20**	**01/27/21**	3.5g	500mL	DI	250mg/L
Standarizing Solution(NaCO3)	J.T.Baker	Normality	1N	**223443**	**07/02/20**	**03/11/21**	PURCHASED	NA	NA	NA

Tiamo Electroconductivity Standard Prep

Prep'd By (Initials): AR

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Units	Conc	Lot Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc. Range (µg/mL)
EC Spike(KCl)	Mallinckrodt AR	Na	NA	**6858 KHMV**	**NA**	**NA**	PURCHASED	NA	NA	NA
EC Spike Solution	Mallinckrodt AR	Moles/Conductivity	0.01M	**6858 KHMV**	**04/23/20**	4/23/21	0.7456g	1L	DI	1412umos
EC Daily LCS Solution	Mallinckrodt AR	Moles/Conductivity	0.0070824M	**6858 KHMV**	05/25/20	5/25/21	0.5280g	1L	DI	1000umos
Storage Solution EC Probe	APPL	NA	NA	NA	NA	NA	NA	NA	DI	NA

Tiamo pH Buffer Reference Standards

Prep Date: Daily

Exp Date: Daily

Prep'd By (Initials): AR **AR**

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Units	pH	Lot Number - QA Number	Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
pH 1.68 Buffer	VWR	pH Units	1.68	**1006705**	**07/02/20**	**11/27/20**	NA	NA	NA	NA
pH 4.00 Buffer	VWR	pH Units	4	**1901A35-40706**	**01/19/19**	**01/13/21**	NA	NA	NA	NA
pH 10.01 Buffer	VWR	pH Units	10.01	**1004B81**	**07/02/20**	**10/12/21**	NA	NA	NA	NA
pH 7.00 Buffer	Ricca	pH Units	7	**1912A15**	**07/02/20**	**12/01/21**	NA	NA	NA	NA

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

November 16, 2020

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Brooke Gottmeier

Title: Report of Data: Case 93818

Project: 60571032 CV18F0126 Red Hill Fuel Storage, HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

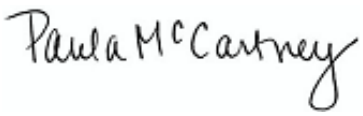
Dear Ms. Gottmeier:

Seven water samples were received October 21, 2020. Written results for the requested analyses are being provided on this November 16, 2020.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
for
60571032 CV18F0126 Red Hill Fuel Storage
APPL SDG 93818
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CASE NARRATIVE

Case Narrative

ARF: 93818

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Seven water samples were received October 21, 2020, at 2.0°C, 1.5°C, 4.0°C, 0.5°C, 3.0°C, and 3.0°C. The sample group was assigned Analytical Request Form (ARF) number 93818.

Sample Preparation and Analysis Information:

For the EPA 8011 analysis, the samples were extracted according to APPL SOP method MWE012.

For the EPA 8015B analysis, the sample was extracted according to EPA method 3520C. The sample extracts were silica gel cleaned according to APPL's SOP CLN004 and placed on hold.

For the EPA 8270D Phenol analysis, the sample was extracted according to EPA method 3520C.

For the EPA 8270D SIM analysis, the sample was extracted according to EPA method 3520C.

For the APPL SOP ANA2MEE analysis, the sample was extracted according to EPA method 3535.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the RSK-175 analysis, the sample was allowed to equilibrate for 10 minutes at 40°C and a portion of the headspace was analyzed.

For the EPA 9060A, 300.0, 353.2, SM 2320B, and SM 3500FeB analyses, the sample was prepared according to the methods.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

Inorganics: In the MS/MSD performed on sample ERH1192, Chloride and nitrate recovered outside of control limits. Corrective action: The client was notified.

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
93818	10/21/20	ERH1191	BA20538	10/19/20 9:00:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
93818	10/21/20	ERH1191	BA20538	10/19/20 9:00:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93818	10/21/20	ERH1191	BA20538	10/19/20 9:00:00 AM	WATER	RSK 175	METHANE BY RSK 175
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	EPA 353.2	WETLAB 353.2 TOXN- WATER
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	SM3500FeB	Ferrous Iron
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	EPA 8270D	EPA 8270D WATER
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	RSK 175	METHANE BY RSK 175
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
93818	10/21/20	ERH1192	BA20539	10/19/20 9:30:00 AM	WATER	SW846 9060A	9060A TOC
93818	10/21/20	ERH1193	BA20540	10/20/20 7:45:00 AM	WATER	8011	EPA 8011
93818	10/21/20	ERH1193	BA20540	10/20/20 7:45:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER
93818	10/21/20	ERH1193	BA20540	10/20/20 7:45:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93818	10/21/20	ERH1194	BA20541	10/20/20 8:00:00 AM	WATER	8011	EPA 8011
93818	10/21/20	ERH1194	BA20541	10/20/20 8:00:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER
93818	10/21/20	ERH1194	BA20541	10/20/20 8:00:00 AM	WATER	EPA 8270D	EPA 8270D WATER
93818	10/21/20	ERH1194	BA20541	10/20/20 8:00:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
93818	10/21/20	ERH1194	BA20541	10/20/20 8:00:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ
93818	10/21/20	ERH1194	BA20541	10/20/20 8:00:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93818	10/21/20	ERH1194	BA20541	10/20/20 8:00:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
93818	10/21/20	ERH1195	BA20542	10/20/20 8:20:00 AM	WATER	8011	EPA 8011
93818	10/21/20	ERH1195	BA20542	10/20/20 8:20:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER
93818	10/21/20	ERH1195	BA20542	10/20/20 8:20:00 AM	WATER	EPA 8270D	EPA 8270D WATER
93818	10/21/20	ERH1195	BA20542	10/20/20 8:20:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
93818	10/21/20	ERH1195	BA20542	10/20/20 8:20:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ
93818	10/21/20	ERH1195	BA20542	10/20/20 8:20:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93818	10/21/20	ERH1195	BA20542	10/20/20 8:20:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
93818	10/21/20	ERH1189	BA20543	10/20/20 9:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
93818	10/21/20	ERH1189	BA20543	10/20/20 9:40:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER

93818	10/21/20	ERH1189	BA20543	10/20/20 9:40:00 AM	WATER	RSK 175	METHANE BY RSK 175
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	SM 2320B	Wetlab 2320B - Water
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	EPA 353.2	WETLAB 353.2 TOXN- WATER
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	SM3500FeB	Ferrous Iron
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	EPA 8270D	EPA 8270D WATER
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	RSK 175	METHANE BY RSK 175
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ
93818	10/21/20	ERH1190	BA20544	10/20/20 10:00:00 AM	WATER	SW846 9060A	9060A TOC

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

SAMPLE RECORDS MANAGEMENT

CHAIN OF CUSTODY,

ARF, CRF, AND

CLIENT COMMUNICATION

APPL - Analysis Request Form 93818

Client: AECOM
Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
Attn: Brooke Gottmeier
Phone: 808-954-4536 Fax: 808-523-8950
Job: 60571032 CV18F0126 Red Hill Fuel Storage
PO #: 18S-22209-HI27 PO# 102604
Chain of Custody (Y/N): Y # 115,117-118,126-128
RAD Screen (Y/N): Y pH (Y/N): Y
Turn Around Type: 1 WEEK

Received by: AAR
Date Received: 10/21/20 Time: 10:20
Delivered by: FEDEX
Shuttle Custody Seals (Y/N): Y Time Zone: -10
Chest Temp(s): SEE CRF
Color: VFRG/M-PurPink
Samples Chilled until Placed in Refrig/Freezer: Y
Project Manager: Libby Cheesebor
QC Report Type: DVP4DOD/EQUIS/HI
Due Date: 10/28/20

Comments:
PM: login and F1s to Margie.Pascua@aecom.com & brooke.gottmeier@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms: LOD database
Report MS/MSD/DUPs when AECOM sample used
Wetlab: EPA 300 (NO3,CL,SO4). EPA 353.2 (TOXN).
8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; 8011: EDB only; $87DC53W5: report phenol
MS/MSD: BA20539 - 8260BTEX,GRO,8015,SIM,8270 & 2-MEE ONLY
FR: email ftp info to Margie, Stella, trommelfanger@lab-data.com & jcanlas@lab-data.com
EDD: AECOM EQuIS EDD 2.5.3 Red Hill 87DMEE->3535A to brooke.gottmeier@, Margie.Pascua@aecom.com & jecklund@lab-data.com

Sample Distribution:
GC: 4-$87DC53W5, 4-$87DMEEW5, 4-$DOC53W5LIQ, 4-$SIM53LIQ51, 3-$8011
Extractions: 4-_LIQ003, 4-_LIQ005, 4-_MWE2MEE, 3-_MWE012
VOA: 4-$86BTOTXDOD5W, 7-$GASBL, 7-$GRO86BW, 4-$RSKMETH, 3-$86BTOTXDCAW
Wetlab: 2-$232W(HCO3,CO3,ALK), 2-$300W, 2-$353TOXNW, 2-$35FE, 2-$TOCW53

Charges:

Invoice To:
ACCOUNTS PAYABLE
1001 Bishop Street, Ste 1600
USAPImaging@aecom.com
mary.basano@aecom.com

	Client ID		APPL ID	Sampled		Analyses Requested
1.	ERH1191	LCSD	BA20538W	10/19/20	09:00	$86BTOTXDOD5W, $GASBL, $GRO86BW, $RSKMETH -- See Comments
2.	ERH1192	MS/MSD;See comments	BA20539W	10/19/20	09:30	$232W(HCO3,CO3,ALK), $300W, $353TOXNW, $35FE, $86BTOTXDOD5W, $87DC53W5, $87DMEEW5, $DOC53W5LIQ, $GASBL, $GRO86BW, $RSKMETH, $SIM53LIQ51, $TOCW53 -- See Comments
3.	ERH1193	LCSD	BA20540W	10/20/20	07:45	$8011, $86BTOTXDCAW, $GASBL, $GRO86BW -- See Comments

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -10 UTC

4.	ERH1194	LCSD BA20541W	10/20/20	08:00	$8011, $86BTOTXDCAW, $87DC53W5, $87DMEEW5, $DOC53W5LIQ, $GASBL, $GRO86BW, $SIM53LIQ51 -- See Comments
5.	ERH1195	LCSD BA20542W	10/20/20	08:20	$8011, $86BTOTXDCAW, $87DC53W5, $87DMEEW5, $DOC53W5LIQ, $GASBL, $GRO86BW, $SIM53LIQ51 -- See Comments
6.	ERH1189	LCSD BA20543W	10/20/20	09:40	$86BTOTXDOD5W, $GASBL, $GRO86BW, $RSKMETH -- See Comments
7.	ERH1190	LCSD BA20544W	10/20/20	10:00	$232W(HCO3,CO3,ALK), $300W, $353TOXNW, $35FE, $86BTOTXDOD5W, $87DC53W5, $87DMEEW5, $DOC53W5LIQ, $GASBL, $GRO86BW, $RSKMETH, $SIM53LIQ51, $TOCW53 -- See Comments

APPL Sample Receipt Form

ARF# **93818**

Sample	Container Type	Count	p
BA20538	[13] VOAs - HCL	4	NA
BA20539	[3] PL 250mL	1	NA
	[10] PL 250mL - H2SO4	1	1.3
	[13] VOAs - HCL	8	NA
	[17] Amber Liter	12	NA
	[32] Clear VOA - H2SO4	2	NA
	[38] 250mL brn poly, HCl prsvd	1	1.6
	[40] 500mL Amber, unprsrvd	9	NA
BA20540	[13] VOAs - HCL	3	NA
	[15] VOAs - NP	3	NA
BA20541	[13] VOAs - HCL	3	NA
	[15] VOAs - NP	3	NA
	[17] Amber Liter	4	NA
	[40] 500mL Amber, unprsrvd	3	NA
BA20542	[13] VOAs - HCL	3	NA
	[15] VOAs - NP	3	NA
	[17] Amber Liter	4	NA
	[40] 500mL Amber, unprsrvd	3	NA
BA20543	[13] VOAs - HCL	4	NA
BA20544	[3] PL 250mL	1	NA
	[10] PL 250mL - H2SO4	1	1.3
	[13] VOAs - HCL	4	NA
	[17] Amber Liter	4	NA
	[32] Clear VOA - H2SO4	2	NA
	[38] 250mL brn poly, HCl prsvd	1	1.3
	[40] 500mL Amber, unprsrvd	3	NA

Sample	Container Type	Count	p

43818

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com
Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

C.O.C. 126

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-954-4536	Company Name: AECOM Phone: 512-419-6709
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950	Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Brooke Gottmeier	Attn: Sheree Smith
Email: brooke.gottmeier@aecom.com	Email: sheree.smith@aecom.com; usapimaging@aecom.com

Project Name/Number: CV18F0126 / 60571032
Purchase Order Number: 102604
Sampler (Print): EB, SP, BL
Sampler (Signature):
Date Shipped: 10/20/20
Carrier: FedEx
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Sed.	Soil	8260C BTEX,TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity 300.0 Nitrate,Sulfate,Chloride	300.0 Bromide/Fluoride 6010 Total Ca,Mg,Mn,K,Na SM4500 Total & Dissolved Silica	9060A TOC	9060A DOC	
ERH1191	Trip Blank	10/19/20	0900	HST	0	X			X							X							
ERH1192	RHMW15-05	10/19/20	0930	HST	8	X			X**		X**	X**	X**	X**	X**	X	X	X	X		X		see other Cooler

*Analyze TPH w/SGT only if TPH-d/o detected.
** MS/MSD. 8011, 8015, 8260, 8270, 8270SIM
TPH-d/o & PAHs need liquid-liquid extraction.

10/20/20

Shuttle Temperature: 4.0/4.0 3.0/3.0 RI +0.0°C 2.0/2.0 3.0/3.0 1.5/1.5 IRB-1.9 2.4/0.5

Turnaround Requested: Check one
☐ Standard 2-3 wk ☒ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other:

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler: (AECOM)	Date 10/20/20	Time 14:30	Received by:	Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date 10/21/20	Time 10:20	Received at lab by:

See page 2 for Container Preservative and Sampling Information

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

C.O.C. 128

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-954-4536	Company Name: AECOM Phone: 512-419-6709
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950	Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Brooke Gottmeier	Attn: Sheree Smith
Email: brooke.gottmeier@aecom.com	Email: sheree.smith@aecom.com; usapimaging@aecom.com

Project Name/Number: CV18F0126 / 60571032
Purchase Order Number: 102604
Sampler (Print): EB, SP, BL
Sampler (Signature):

Date Shipped: 10/20/20
Carrier: FedEx
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Matrix: Sed.	Matrix: Soil	8260C BTEX,TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity 300.0 Nitrate,Sulfate,Chloride	300.0 Bromide/Fluoride 6010 Total Ca,Mg,Mn,K,Na SM4500 Total & Dissolved Silica	9060A TOC	9060A DOC	
ELH1191	Trip Blank	10/19/20	0906	HST	0	X			X							X							
ELH1192	KHMW15-05	10/19/20	0930	HST	8	X			X**		X*	X*	X**	X*	X*	X	X	X	X		X		See other Coolers

10/20/20

*Analyze TPH w/SGT only if TPH-d/o detected.
** MS/MSD: 8011, 8015, 8260, 8270, 8270SIM
TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature:

Turnaround Requested: Check one
☐ Standard 2-3 wk ☒ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other: _____

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler: (AECOM)	Date 10/20/20	Time 14:30	Received by:	Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date 10/21/20	Time 1082O	Received at lab by:

See Page 2 for Container Preservative and Sampling Information

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

C.O.C. 127

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-954-4536	Company Name: AECOM Phone: 512-419-6709
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950	Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Brooke Gottmeier	Attn: Sheree Smith
Email: brooke.gottmeier@aecom.com	Email: sheree.smith@aecom.com; usapimaging@aecom.com

Project Name/Number: CV18F0126 / 60571032
Purchase Order Number: 102604
Sampler (Print): EB, SP, BL
Sampler (Signature):

Date Shipped: 10/20/20
Carrier: FedEx
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Sed.	Soil	8260C BTEX,TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity 300.0 Nitrate,Sulfate,Chloride	300.0 Bromide/Fluoride 6010 Total Ca,Mg,Mn,K,Na SM4500 Total & Dissolved Silica	9060A TOC	9060A DOC	
EKH1191	Trip Blank	10/19/20	0900	HST	4	X			X							X							
EKH1192	KHMW15-05	10/19/20	0930	HST	8	X			X**		X**	X**	X**	X**	X**	X	X	X	X		X		see other coolers

10/20/20

*Analyze TPH w/SGT only if TPH-d/o detected.

** MS/MSD: 8011, 8015, 8260, 8270, 8270SIM

TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature:

Turnaround Requested: Check one
☐ Standard 2-3 wk ☒ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other:

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler: (AECOM)	Date 10/20/20	Time 14:30	Received by:	Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date 10/21/20	Time 10:20	Received at lab by:

See Container Preservative and Sampling Information

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

C.O.C. 118

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-954-4536	Company Name: AECOM Phone: 512-419-6709
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950	Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Brooke Gottmeier	Attn: Sheree Smith
Email: brooke.gottmeier@aecom.com	Email: sheree.smith@aecom.com; usapimaging@aecom.com

Project Name/Number: CV18F0126 / 60571032
Purchase Order Number: 102604
Sampler (Print): EB, BL, DA
Sampler (Signature):

Date Shipped: 10/20/20
Carrier: FedEx
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Sed.	Soil	8260C BTEX,TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity 300.0 Nitrate,Sulfate,Chloride	300.0 Bromide/Fluoride 6010 Total Ca,Mg,Mn,K,Na SM4500 Total & Dissolved Silica	9060A TOC	9060A DOC	
ERH 1193	Trip Blank	10/20/20	0745	HST	0	X			X	X													
ERH 1194	Field Blank	10/20/20	0800	HST	4	X			X	X	X	X*	X	X	X								See other cooler
ERH 1195	Equip. Blank	10/20/20	0820	HST	4	X			X	X	X	X*	X	X	X								

10/20/20

*Analyze TPH w/SGT only if TPH-d/o detected.

** MS/MSD: 8011, 8015, 8260, 8270, 8270SIM

TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature:

Turnaround Requested: Check one
☐ Standard 2-3 wk ☒ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other: _____

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
(AECOM)	10/20/20	14:30					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					10/21/20	10:20	

See Page 2 for Container Preservative and Sampling Information

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Clovis, CA 93611
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Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

C.O.C. 117

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-954-4536	Company Name: AECOM Phone: 512-419-6709
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950	Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Brooke Gottmeier	Attn: Sheree Smith
Email: brooke.gottmeier@aecom.com	Email: sheree.smith@aecom.com; usapimaging@aecom.com

Project Name/Number: CV18F0126 / 60571032
Purchase Order Number: 102604
Sampler (Print): EB, BL, DM
Sampler (Signature):
Date Shipped: 10/20/20
Carrier: FedEx
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Sed.	Soil	8260C BTEX,TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity 300.0 Nitrate,Sulfate,Chloride	300.0 Bromide/Fluoride 6010 Total Ca,Mg,Mn,K,Na SM4500 Total & Dissolved Silica	9060A TOC	9060A DOC	
ERH1193	Trip Blank	10/20/20	0745	HST	6	X			X	X													
ERH1194	Field Blank	10/20/20	0800	HST	9	X			X	X	X	X*	X	X	X								see other cooler
ERH1195	Equipment Blank	10/20/20	0820	HST	9	X			X	X	X	X*	X	X	X								

10/20/20

*Analyze TPH w/SGT only if TPH-d/o detected.

** MS/MSD: 8011, 8015, 8260, 8270, 8270SIM

TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature:

Turnaround Requested: Check one
☐ Standard 2-3 wk ☒ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other:

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
(AECOM)	10/20/20	14:30					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					10/21/20	10:20	

See page 2 for Container Preservative and Sampling Information

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CHAIN OF CUSTODY RECORD

C.O.C. 115

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-954-4536	Company Name: AECOM Phone: 512-419-6709
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950	Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Brooke Gottmeier	Attn: Sheree Smith
Email: brooke.gottmeier@aecom.com	Email: sheree.smith@aecom.com; usapimaging@aecom.com

Project Name/Number: CV18F0126 / 60571032
Purchase Order Number: 102604
Sampler (Print): DM, EB, BL
Sampler (Signature):
Date Shipped: 10/20/20
Carrier: FedEx
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Matrix: Sed.	Matrix: Soil	8260C BTEX,TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity 300.0 Nitrate,Sulfate,Chloride	300.0 Bromide/Fluoride 6010 Total Ca,Mg,Mn,K,Na SM4500 Total & Dissolved Silica	9060A TOC	9060A DOC
ERH1189	Trip Blank	10/20/20	0940	HST	4	X			X							X						
ERH1190	RHMW14-03	10/20/20	1000	HST	16	X			X		X	X*	X	X	X	X	X	X	X		X	

BL 10/20/20

*Analyze TPH w/SGT only if TPH-d/o detected.

** MS/MSD: 8011, 8015, 8260, 8270, 8270SIM

TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature:

Turnaround Requested: Check one
☐ Standard 2-3 wk ☒ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other:

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler: (AECOM)	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
	10/20/20	14:30					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					10/21/20	10:20	

See page 2 for Container Preservative and Sampling Information

COOLER RECEIPT FORM **ARF: 93818**

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 10/21/20

2) Coolers: Number of Coolers: 6

3) YES Were custody seals present and intact?
How many? 12 Name/Date on seal? SEE BELOW

4) YES Was there a shipping slip? Carrier name: FEDEX

5) Type of packing in cooler: X bubble wrap __ popcorn __ foam X plastic bags __ other
X wet ice __ dry ice __ no ice __ gel ice

6) YES Were cooler temperatures acceptable?

7) Serial number of calibrated thermometer used: R1 CF:+0.0°C/ IRB CF:-1.9°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp

1: 2.0/2.0	2: 1.5/1.5	3: 4.0/4.0	4: 2.4/0.5	5: 3.0/3.0	6: 3.0/3.0
7:	8:	9:	10:	11:	12:

Chain of custody:

9) YES Was a chain of custody received?

10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?

12) YES Did all container labels agree with custody papers?

Sample Containers:

13) YES Were all containers sealed in separate bags?

14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?

15) YES Were correct containers and preservatives used for the tests indicated?

16) YES Was a sufficient amount of sample sent for tests indicated?

17) Yes Were bubbles present in volatile samples?
If yes, the following were received with air bubbles:
Larger than a pea: BA20538all, BA20540w02-03, BA20543all
Smaller than a pea: BA20544w02-04

Preservation Hold time:

18) Yes Was a sufficient amount of holding time remaining to analyze the samples?

19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container?

20) Yes Was the pH of acid preserved non-VOA samples < 2?

21) NA Was the pH of the "basic" preserved samples for Cyanide > 12, Sulfide >9, Hexchrom >9?

22) NO Were unpreserved VOA Vials received for VOA Dept analysis?

23) NA If "yes", are the unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?
pH strip lot number: HC908519
Lab notified if pH was not adequate:

Notes/Deficiencies:

CUSTODY SEAL
APPL, Inc. (559) 275-2175
Initials [signature] Date 10/20/20

Personnel receiving samples: AD Second reviewer: AA
Personnel labeling samples: MS
Project manager notified: AA Date/Time of notification 10/21/20
Name of client notified: Date/Time of notification

SAMPLE RESULTS

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1193

APPL ID: BA20540

Sample Collection Date: 10/20/20

QCG: #8011-201022A2-257767

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/22/20	10/23/20
8011	SURROGATE: 1,3-DIBROMOPROPANE	104	70-132			%	10/22/20	10/23/20

Quant Method:	80111015.M
Run #:	1020050
Instrument:	HERBIE
Sequence:	201022
Dilution Factor:	1
Initials:	SSE

Printed: 10/23/20 1:27:17 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1194

APPL ID: BA20541

Sample Collection Date: 10/20/20

QCG: #8011-201022A2-257767

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/22/20	10/23/20
8011	SURROGATE: 1,3-DIBROMOPROPANE	103	70-132			%	10/22/20	10/23/20

Quant Method:	80111015.M
Run #:	1020051
Instrument:	HERBIE
Sequence:	201022
Dilution Factor:	1
Initials:	SSE

Printed: 10/23/20 1:27:17 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1195

APPL ID: BA20542

Sample Collection Date: 10/20/20

QCG: #8011-201022A2-257767

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/22/20	10/23/20
8011	SURROGATE: 1,3-DIBROMOPROPANE	113	70-132			%	10/22/20	10/23/20

Quant Method:	80111015.M
Run #:	1020052
Instrument:	HERBIE
Sequence:	201022
Dilution Factor:	1
Initials:	SSE

Printed: 10/23/20 1:27:17 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1192

APPL ID: BA20539

Sample Collection Date: 10/19/20

QCG: #DOC53-201026A-257938

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	89.9	60-142			%	10/26/20	10/28/20
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	84.4	56-125			%	10/26/20	10/28/20

Quant Method:	DOC0905.M
Run #:	1028003
Instrument:	Apollo
Sequence:	201028
Dilution Factor:	1
Initials:	SSE

Printed: 11/11/20 12:47:50 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1194

APPL ID: BA20541

Sample Collection Date: 10/20/20

QCG: #DOC53-201026A-257938

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	90.3	60-142			%	10/26/20	10/28/20
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	84.6	56-125			%	10/26/20	10/28/20

Quant Method:	DOC0905.M
Run #:	1028004
Instrument:	Apollo
Sequence:	201028
Dilution Factor:	1
Initials:	SSE

Printed: 11/11/20 12:47:50 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1195

APPL ID: BA20542

Sample Collection Date: 10/20/20

QCG: #DOC53-201026A-257938

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	92.5	60-142			%	10/26/20	10/28/20
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	87.2	56-125			%	10/26/20	10/28/20

Quant Method:	DOC0905.M
Run #:	1028005
Instrument:	Apollo
Sequence:	201028
Dilution Factor:	1
Initials:	SSE

Printed: 11/11/20 12:47:50 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1190

APPL ID: BA20544

Sample Collection Date: 10/20/20

QCG: #DOC53-201026A-257938

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	90.1	60-142			%	10/26/20	10/28/20
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	84.8	56-125			%	10/26/20	10/28/20

Quant Method:	DOC0905.M
Run #:	1028006
Instrument:	Apollo
Sequence:	201028
Dilution Factor:	1
Initials:	SSE

Printed: 11/11/20 12:47:50 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1192

APPL ID: BA20539

Sample Collection Date: 10/19/20

QCG: #87DC5-201021A-257854

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	83.6	43-140			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	80.1	44-119			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	84.0	19-119			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	85.6	44-120			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: PHENOL-D6 (S)	82.0	10-115			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	90.5	50-134			%	10/22/20	10/26/20

Quant Method: Y1009.M
Run #: 1009Y244
Instrument: Yoda
Sequence: Y201009
Dilution Factor: 1
Initials: MA

Printed: 10/26/20 5:39:19 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1194

APPL ID: BA20541

Sample Collection Date: 10/20/20

QCG: #87DC5-201021A-257854

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	94.0	43-140			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	89.4	44-119			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	86.4	19-119			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	88.1	44-120			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: PHENOL-D6 (S)	87.2	10-115			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	103	50-134			%	10/22/20	10/26/20

Quant Method: Y1009.M
Run #: 1009Y245
Instrument: Yoda
Sequence: Y201009
Dilution Factor: 1
Initials: MA

Printed: 10/26/20 5:39:19 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1195

APPL ID: BA20542

Sample Collection Date: 10/20/20

QCG: #87DC5-201021A-257854

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	94.7	43-140			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	89.3	44-119			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	89.0	19-119			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	91.8	44-120			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: PHENOL-D6 (S)	89.1	10-115			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	106	50-134			%	10/22/20	10/26/20

Quant Method: Y1009.M
Run #: 1009Y246
Instrument: Yoda
Sequence: Y201009
Dilution Factor: 1
Initials: MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1190

APPL ID: BA20544

Sample Collection Date: 10/20/20

QCG: #87DC5-201021A-257854

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	95.5	43-140			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	90.8	44-119			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	88.5	19-119			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	92.0	44-120			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: PHENOL-D6 (S)	90.5	10-115			%	10/22/20	10/26/20
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	105	50-134			%	10/22/20	10/26/20

Quant Method: Y1009.M
Run #: 1009Y247
Instrument: Yoda
Sequence: Y201009
Dilution Factor: 1
Initials: MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1192

APPL ID: BA20539

Sample Collection Date: 10/19/20

QCG: #SIM53-201021A-257900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	82.7	39-114			%	10/21/20	10/27/20
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	98.3	58-120			%	10/21/20	10/27/20

Quant Method: L1016.M
Run #: 1016L129
Instrument: Linus
Sequence: L201016
Dilution Factor: 1
Initials: MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1194

APPL ID: BA20541

Sample Collection Date: 10/20/20

QCG: #SIM53-201021A-257900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	110	39-114			%	10/21/20	10/27/20
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	111	58-120			%	10/21/20	10/27/20

Quant Method:	L1016.M
Run #:	1016L130
Instrument:	Linus
Sequence:	L201016
Dilution Factor:	1
Initials:	MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1195

APPL ID: BA20542

Sample Collection Date: 10/20/20

QCG: #SIM53-201021A-257900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	109	39-114			%	10/21/20	10/27/20
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	95.0	58-120			%	10/21/20	10/27/20

Quant Method:	L1016.M
Run #:	1016L131
Instrument:	Linus
Sequence:	L201016
Dilution Factor:	1
Initials:	MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1190

APPL ID: BA20544

Sample Collection Date: 10/20/20

QCG: #SIM53-201021A-257900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/27/20
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	113	39-114			%	10/21/20	10/27/20
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	107	58-120			%	10/21/20	10/27/20

Quant Method:	L1016.M
Run #:	1016L132
Instrument:	Linus
Sequence:	L201016
Dilution Factor:	1
Initials:	MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1192

APPL ID: BA20539

Sample Collection Date: 10/19/20

QCG: #87DME-201026A-257898

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/26/20	10/27/20

Quant Method:	YMEE0501.M
Run #:	0501Y135
Instrument:	Yoda
Sequence:	Y200501M
Dilution Factor:	1
Initials:	MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1194

APPL ID: BA20541

Sample Collection Date: 10/20/20

QCG: #87DME-201026A-257898

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/26/20	10/27/20

Quant Method:	YMEE0501.M
Run #:	0501Y138
Instrument:	Yoda
Sequence:	Y200501M
Dilution Factor:	1
Initials:	MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1195

APPL ID: BA20542

Sample Collection Date: 10/20/20

QCG: #87DME-201026A-257898

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/26/20	10/27/20

Quant Method:	YMEE0501.M
Run #:	0501Y139
Instrument:	Yoda
Sequence:	Y200501M
Dilution Factor:	1
Initials:	MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1190

APPL ID: BA20544

Sample Collection Date: 10/20/20

QCG: #87DME-201026A-257898

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/26/20	10/27/20

Quant Method:	YMEE0501.M
Run #:	0501Y140
Instrument:	Yoda
Sequence:	Y200501M
Dilution Factor:	1
Initials:	MA

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1191

APPL ID: BA20538

Sample Collection Date: 10/19/20

QCG: #86BTO-201023AZ-257892

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	101	81-118			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	105	80-119			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	104	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z39
Instrument: ZEUS
Sequence: 201023
Dilution Factor: 1
Initials: DG

Printed: 10/28/20 10:33:20 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1192

APPL ID: BA20539

Sample Collection Date: 10/19/20

QCG: #86BTO-201023AZ-257892

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	102	81-118			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	106	80-119			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	104	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z40
Instrument: ZEUS
Sequence: 201023
Dilution Factor: 1
Initials: DG

Printed: 10/28/20 10:33:20 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
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908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1193

APPL ID: BA20540

Sample Collection Date: 10/20/20

QCG: #86BTO-201023AZ1-257893

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/24/20	10/24/20
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	100	81-118			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	104	80-119			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	105	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z41
Instrument: ZEUS
Sequence: 201023
Dilution Factor: 1
Initials: DG

Printed: 10/28/20 10:33:20 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1194

Sample Collection Date: 10/20/20

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 93818

APPL ID: BA20541

QCG: #86BTO-201023AZ1-257893

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/24/20	10/24/20
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	99.4	81-118			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	103	85-114			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	103	80-119			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	105	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z42
Instrument: ZEUS
Sequence: 201023
Dilution Factor: 1
Initials: DG

Printed: 10/28/20 10:33:20 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1195

APPL ID: BA20542

Sample Collection Date: 10/20/20

QCG: #86BTO-201023AZ1-257893

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/24/20	10/24/20
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	99.6	81-118			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	103	80-119			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	105	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z43
Instrument: ZEUS
Sequence: 201023
Dilution Factor: 1
Initials: DG

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1189

APPL ID: BA20543

Sample Collection Date: 10/20/20

QCG: #86BTO-201023AZ-257892

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	101	81-118			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	103	80-119			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	107	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z44
Instrument: ZEUS
Sequence: 201023
Dilution Factor: 1
Initials: DG

Printed: 10/28/20 10:33:20 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1190

APPL ID: BA20544

Sample Collection Date: 10/20/20

QCG: #86BTO-201023AZ-257892

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	101	81-118			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	105	85-114			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	103	80-119			%	10/24/20	10/24/20
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	108	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z45
Instrument: ZEUS
Sequence: 201023
Dilution Factor: 1
Initials: DG

Printed: 10/28/20 10:33:20 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1191

APPL ID: BA20538

Sample Collection Date: 10/19/20

QCG: #GRO86-201023AZ-257875

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/24/20	10/24/20

Quant Method:	ZGAS1023.M
Run #:	1023Z39
Instrument:	ZEUS
Sequence:	201023
Dilution Factor:	1
Initials:	DG

Printed: 10/28/20 10:43:17 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1192

APPL ID: BA20539

Sample Collection Date: 10/19/20

QCG: #GRO86-201023AZ-257875

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/24/20	10/24/20

Quant Method:	ZGAS1023.M
Run #:	1023Z40
Instrument:	ZEUS
Sequence:	201023
Dilution Factor:	1
Initials:	DG

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1193

APPL ID: BA20540

Sample Collection Date: 10/20/20

QCG: #GRO86-201023AZ-257875

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/24/20	10/24/20

Quant Method:	ZGAS1023.M
Run #:	1023Z41
Instrument:	ZEUS
Sequence:	201023
Dilution Factor:	1
Initials:	DG

Printed: 10/28/20 10:43:17 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1194

APPL ID: BA20541

Sample Collection Date: 10/20/20

QCG: #GRO86-201023AZ-257875

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	103	85-114			%	10/24/20	10/24/20

Quant Method:	ZGAS1023.M
Run #:	1023Z42
Instrument:	ZEUS
Sequence:	201023
Dilution Factor:	1
Initials:	DG

Printed: 10/28/20 10:43:17 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

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Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1195

APPL ID: BA20542

Sample Collection Date: 10/20/20

QCG: #GRO86-201023AZ-257875

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/24/20	10/24/20

Quant Method:	ZGAS1023.M
Run #:	1023Z43
Instrument:	ZEUS
Sequence:	201023
Dilution Factor:	1
Initials:	DG

Printed: 10/28/20 10:43:17 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

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Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1189

APPL ID: BA20543

Sample Collection Date: 10/20/20

QCG: #GRO86-201023AZ-257875

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/24/20	10/24/20

Quant Method:	ZGAS1023.M
Run #:	1023Z44
Instrument:	ZEUS
Sequence:	201023
Dilution Factor:	1
Initials:	DG

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1190

APPL ID: BA20544

Sample Collection Date: 10/20/20

QCG: #GRO86-201023AZ-257875

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	105	85-114			%	10/24/20	10/24/20

Quant Method:	ZGAS1023.M
Run #:	1023Z45
Instrument:	ZEUS
Sequence:	201023
Dilution Factor:	1
Initials:	DG

Printed: 10/28/20 10:43:17 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1191

APPL ID: BA20538

Sample Collection Date: 10/19/20

QCG: #RSKME-201027A-257902

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/27/20	10/27/20

Quant Method:	RSK0914A.M
Run #:	1027R06
Instrument:	Rocky
Sequence:	200914
Dilution Factor:	1
Initials:	GAG

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APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1192

APPL ID: BA20539

Sample Collection Date: 10/19/20

QCG: #RSKME-201027A-257902

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/27/20	10/27/20

Quant Method:	RSK0914A.M
Run #:	1027R07
Instrument:	Rocky
Sequence:	200914
Dilution Factor:	1
Initials:	GAG

Printed: 10/27/20 4:46:30 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1189

APPL ID: BA20543

Sample Collection Date: 10/20/20

QCG: #RSKME-201027A-257902

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/27/20	10/27/20

Quant Method:	RSK0914A.M
Run #:	1027R11
Instrument:	Rocky
Sequence:	200914
Dilution Factor:	1
Initials:	GAG

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APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 93818

Sample ID: ERH1190

APPL ID: BA20544

Sample Collection Date: 10/20/20

QCG: #RSKME-201027A-257902

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/27/20	10/27/20

Quant Method:	RSK0914A.M
Run #:	1027R12
Instrument:	Rocky
Sequence:	200914
Dilution Factor:	1
Initials:	GAG

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APPL-F1-SC-NoMC-REG MDLs-DOD

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1192

APPL ID: BA20539

Sample Collection Date: 10/19/20

ARF: 93818

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	52.9	5.0	1.00	0.40	mg/L	5	10/26/20	10/26/20
EPA 300.0	NITRATE	1.7	0.5	0.18	0.04	mg/L	1	10/22/20	10/22/20
EPA 300.0	SULFATE	9.4	1.0	0.20	0.09	mg/L	1	10/22/20	10/22/20

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1190

APPL ID: BA20544

Sample Collection Date: 10/20/20

ARF: 93818

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	46.4	1.0	0.20	0.08	mg/L	1	10/22/20	10/22/20
EPA 300.0	NITRATE	1.8	0.5	0.18	0.04	mg/L	1	10/22/20	10/22/20
EPA 300.0	SULFATE	8.1	1.0	0.20	0.09	mg/L	1	10/22/20	10/22/20

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
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908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1192

APPL ID: BA20539

Sample Collection Date: 10/19/20

ARF: 93818

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE AS N	0.37	0.10	0.090	0.028	mg/L	1	10/22/20	10/22/20
SM 2320B	BICARBONATE AS CACO3	64.1	2.0	1.70	0.85	mg/L	1	10/22/20	10/22/20
SM 2320B	CARBONATE AS CACO3	1.70 U	2.0	1.70	0.85	mg/L	1	10/22/20	10/22/20
SM 2320B	TOTAL ALKALINITY AS CACO	64.1	2.0	1.70	0.85	mg/L	1	10/22/20	10/22/20
SM3500FeB	FERROUS IRON	0.18 J	1.0	0.32	0.16	mg/L	1	10/23/20	10/23/20
SW846 9060A	TOTAL ORGANIC CARBON	1.6	0.93	0.350	0.130	mg/L	1	10/27/20	10/27/20

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Brooke Gottmeier

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH1190

APPL ID: BA20544

Sample Collection Date: 10/20/20

ARF: 93818

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE AS N	0.39	0.10	0.090	0.028	mg/L	1	10/22/20	10/22/20
SM 2320B	BICARBONATE AS CACO3	61.1	2.0	1.70	0.85	mg/L	1	10/22/20	10/22/20
SM 2320B	CARBONATE AS CACO3	1.70 U	2.0	1.70	0.85	mg/L	1	10/22/20	10/22/20
SM 2320B	TOTAL ALKALINITY AS CACO	61.1	2.0	1.70	0.85	mg/L	1	10/22/20	10/22/20
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	10/23/20	10/23/20
SW846 9060A	TOTAL ORGANIC CARBON	11.8	0.93	0.350	0.130	mg/L	1	10/29/20	10/29/20

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APPL-F1-SC-NoMC-REG MDLs

QC FORMS

8011

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: HERBIE

APPL ID.	Client Sample No.	SURROGATE: 1,3-DIBROMOPROPANE (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
201022A2-BLK	Blank	70-132	106				
201022A2-LCS	Lab Control Spike	70-132	100				
201022A2-LCSD	Lab Control SpikeD	70-132	102				
BA20540	ERH1193	70-132	104				
BA20541	ERH1194	70-132	103				
BA20542	ERH1195	70-132	113				

Comments: Batch: #8011-201022A2

8011

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: HERBIE

Blank ID: 201022A2-BLK Time Analyzed: 0106

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A2-BLK	Blank	1020041	10/23/20 0106
201022A2-LCS	Lab Control Spike	1020042	10/23/20 0127
201022A2-LCSD	Lab Control SpikeD	1020043	10/23/20 0147
BA20540	ERH1193	1020050	10/23/20 0410
BA20541	ERH1194	1020051	10/23/20 0430
BA20542	ERH1195	1020052	10/23/20 0450

Comments: Batch: #8011-201022A2

Method Blank
EPA 8011

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201022W-20540 - 257767**
Batch ID: #8011-201022A2

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/22/20	10/23/20
BLANK	SURROGATE: 1,3-DIBROMOPRO	106	70-132			%	10/22/20	10/23/20

Quant Method:80111015.M
Run #:1020041
Instrument:HERBIE
Sequence:201022
Initials:SSE

GC SC-Blank-REG MDLs-DOD
Printed: 10/23/20 1:27:23 PM

8011

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	HERBIE
LCS ID:	201022A2-LCS	Time Analyzed:	0127

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A2-BLK	Blank	1020041	10/23/20 0106
201022A2-LCS	Lab Control Spike	1020042	10/23/20 0127
201022A2-LCSD	Lab Control SpikeD	1020043	10/23/20 0147
BA20540	ERH1193	1020050	10/23/20 0410
BA20541	ERH1194	1020051	10/23/20 0430
BA20542	ERH1195	1020052	10/23/20 0450

Comments: Batch: #8011-201022A2

Laboratory Control Spike Recoveries
EPA 8011

APPL ID: **201022W-20540 LCS - 257767**
Batch ID: #8011-201022A2

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
EDB	0.250	0.253	0.263	101	105	60-140	3.9	25
SURROGATE: 1,3-DIBROMOPROPANE (	0.250	0.251	0.255	100	102	70-132		

Comments:

Primary	SPK	DUP
Quant Method :	80111015.M	80111015.M
Extraction Date :	10/22/20	10/22/20
Analysis Date :	10/23/20	10/23/20
Instrument :	HERBIE	HERBIE
Run :	1020042	1020043
Initials :	SSE	

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/28/20

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201026A-BLK	Blank	60-142	92.1		56-125	87.0	
BA20539	ERH1192	60-142	89.9		56-125	84.4	
BA20541	ERH1194	60-142	90.3		56-125	84.6	
BA20542	ERH1195	60-142	92.5		56-125	87.2	
BA20544	ERH1190	60-142	90.1		56-125	84.8	
201026A-LCS	Lab Control Spike	60-142	91.5		56-125	95.9	
201026A-LCSD	Lab Control SpikeD	60-142	91.2		56-125	96.0	
BA20539-MS	Matrix Spike	60-142	92.0		56-125	97.2	
BA20539-MSD	Matrix SpikeD	60-142	89.3		56-125	93.2	

Comments: Batch: #DOC53-201026A

EPA 8015B-eH

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/28/20
Matrix:	WATER	Instrument:	Apollo
Blank ID:	201026A-BLK	Time Analyzed:	1300

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-BLK	Blank	1028002	10/28/20 1300
BA20539	ERH1192	1028003	10/28/20 1328
BA20541	ERH1194	1028004	10/28/20 1356
BA20542	ERH1195	1028005	10/28/20 1424
BA20544	ERH1190	1028006	10/28/20 1452
201026A-LCS	Lab Control Spike	1028007	10/28/20 1520
201026A-LCSD	Lab Control SpikeD	1028008	10/28/20 1548
201026A-MS	Matrix Spike	1028009	10/28/20 1616
201026A-MSD	Matrix SpikeD	1028010	10/28/20 1645

Comments: Batch: #DOC53-201026A

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **201026W-20539 - 257938**
Batch ID: #DOC53-201026A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	10/26/20	10/28/20
BLANK	SURROGATE: OCTACOSANE (S)	92.1	60-142			%	10/26/20	10/28/20
BLANK	SURROGATE: ORTHO-TERPHEN	87.0	56-125			%	10/26/20	10/28/20

Quant Method: DOC0905.M
Run #: 1028002
Instrument: Apollo
Sequence: 201028
Initials: SSE

GC SC-Blank-REG MDLs-DOD
Printed: 11/11/20 12:47:56 PM

EPA 8015B-eH

Form 4

LCS Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/28/20

Matrix: WATER Instrument: Apollo

LCS ID: 201026A-LCS Time Analyzed: 1520

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-BLK	Blank	1028002	10/28/20 1300
BA20539	ERH1192	1028003	10/28/20 1328
BA20541	ERH1194	1028004	10/28/20 1356
BA20542	ERH1195	1028005	10/28/20 1424
BA20544	ERH1190	1028006	10/28/20 1452
201026A-LCS	Lab Control Spike	1028007	10/28/20 1520
201026A-LCSD	Lab Control SpikeD	1028008	10/28/20 1548
201026A-MS	Matrix Spike	1028009	10/28/20 1616
201026A-MSD	Matrix SpikeD	1028010	10/28/20 1645

Comments: Batch: #DOC53-201026A

Laboratory Control Spike Recoveries
EPA 8015B TPH LIQ-LIQ

APPL ID: **201026W-20539 LCS - 257938**
Batch ID: #DOC53-201026A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1170	1120	93.6	89.6	36-132	4.4	30
OIL (C24-C40)	1250	1120	1100	89.6	88.0	41-113	1.8	30
SURROGATE: OCTACOSANE (S)	75.0	68.6	68.4	91.5	91.2	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	71.9	72.0	95.9	96.0	56-125		

Comments:

Primary	SPK	DUP
Quant Method :	DOC0905.M	DOC0905.M
Extraction Date :	10/26/20	10/26/20
Analysis Date :	10/28/20	10/28/20
Instrument :	Apollo	Apollo
Run :	1028007	1028008
Initials :	SSE	

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APPL Standard LCSD

Matrix Spike Recoveries
EPA 8015B TPH LIQ-LIQ

APPL ID: **201026W-20539 MS - 257938**
Batch ID: #DOC53-201026A
Sample ID: BA20539
Client ID: ERH1192

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	98	1170	1140	85.8	83.4	36-132	2.6	30
OIL (C24-C40)	1250	56	1150	1120	87.5	85.1	41-113	2.6	30
SURROGATE: OCTACOSANE (S)	75.0	NA	69.0	67.0	92.0	89.3	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	NA	72.9	69.9	97.2	93.2	56-125		

Comments:

Primary	SPK	DUP
Quant Method :	DOC0905.M	DOC0905.M
Extraction Date :	10/26/20	10/26/20
Analysis Date :	10/28/20	10/28/20
Instrument :	Apollo	Apollo
Run :	1028009	1028010
Initials :	SSE	

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APPL MSD SCII

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	43-140	86.7		44-119	85.5	
201021A-LCS	Lab Control Spike	43-140	93.6		44-119	88.8	
201021A-LCSD	Lab Control SpikeD	43-140	101		44-119	92.0	
BA20539-MS	Matrix Spike	43-140	91.2		44-119	85.6	
BA20539-MSD	Matrix SpikeD	43-140	94.4		44-119	90.4	
BA20539	ERH1192	43-140	83.6		44-119	80.1	
BA20541	ERH1194	43-140	94.0		44-119	89.4	
BA20542	ERH1195	43-140	94.7		44-119	89.3	
BA20544	ERH1190	43-140	95.5		44-119	90.8	

Comments: Batch: #87DC5-201021A

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	19-119	82.8		44-120	88.7	
201021A-LCS	Lab Control Spike	19-119	93.2		44-120	92.0	
201021A-LCSD	Lab Control SpikeD	19-119	97.6		44-120	97.6	
BA20539-MS	Matrix Spike	19-119	88.8		44-120	88.0	
BA20539-MSD	Matrix SpikeD	19-119	87.2		44-120	91.2	
BA20539	ERH1192	19-119	84.0		44-120	85.6	
BA20541	ERH1194	19-119	86.4		44-120	88.1	
BA20542	ERH1195	19-119	89.0		44-120	91.8	
BA20544	ERH1190	19-119	88.5		44-120	92.0	

Comments: Batch: #87DC5-201021A

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	10-115	82.4		50-134	98.3	
201021A-LCS	Lab Control Spike	10-115	92.4		50-134	103	
201021A-LCSD	Lab Control SpikeD	10-115	97.2		50-134	108	
BA20539-MS	Matrix Spike	10-115	87.6		50-134	98.4	
BA20539-MSD	Matrix SpikeD	10-115	86.8		50-134	96.8	
BA20539	ERH1192	10-115	82.0		50-134	90.5	
BA20541	ERH1194	10-115	87.2		50-134	103	
BA20542	ERH1195	10-115	89.1		50-134	106	
BA20544	ERH1190	10-115	90.5		50-134	105	

Comments: Batch: #87DC5-201021A

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

Blank ID: 201021A-BLK Time Analyzed: 1321

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1009Y219	10/23/20 1321
201021A-LCS	Lab Control Spike	1009Y220	10/23/20 1347
201021A-LCSD	Lab Control SpikeD	1009Y221	10/23/20 1413
201021A-MS	Matrix Spike	1009Y242	10/26/20 1311
201021A-MSD	Matrix SpikeD	1009Y243	10/26/20 1336
BA20539	ERH1192	1009Y244	10/26/20 1418
BA20541	ERH1194	1009Y245	10/26/20 1444
BA20542	ERH1195	1009Y246	10/26/20 1509
BA20544	ERH1190	1009Y247	10/26/20 1534

Comments: Batch: #87DC5-201021A

Method Blank
EPA 8270D WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201021W-20539 - 257854**
Batch ID: #87DC5-201021A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/21/20	10/23/20
BLANK	SURROGATE: 2,4,6-TRIBROMOP	86.7	43-140			%	10/21/20	10/23/20
BLANK	SURROGATE: 2-FLUORBIPHENY	85.5	44-119			%	10/21/20	10/23/20
BLANK	SURROGATE: 2-FLUOROPHENO	82.8	19-119			%	10/21/20	10/23/20
BLANK	SURROGATE: NITROBENZENE-	88.7	44-120			%	10/21/20	10/23/20
BLANK	SURROGATE: PHENOL-D6 (S)	82.4	10-115			%	10/21/20	10/23/20
BLANK	SURROGATE: TERPHENYL-D14 (	98.3	50-134			%	10/21/20	10/23/20

Quant Method: Y1009.M
Run #: 1009Y219
Instrument: Yoda
Sequence: Y201009
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 10/26/20 5:39:18 PM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Yoda

LCS ID: 201021A-LCS Time Analyzed: 1347

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1009Y219	10/23/20 1321
201021A-LCS	Lab Control Spike	1009Y220	10/23/20 1347
201021A-LCSD	Lab Control SpikeD	1009Y221	10/23/20 1413
201021A-MS	Matrix Spike	1009Y242	10/26/20 1311
201021A-MSD	Matrix SpikeD	1009Y243	10/26/20 1336
BA20539	ERH1192	1009Y244	10/26/20 1418
BA20541	ERH1194	1009Y245	10/26/20 1444
BA20542	ERH1195	1009Y246	10/26/20 1509
BA20544	ERH1190	1009Y247	10/26/20 1534

Comments: Batch: #87DC5-201021A

Laboratory Control Spike Recoveries
EPA 8270D WATER

APPL ID: **201021W-20539 LCS - 257854**
Batch ID: #87DC5-201021A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	58.1	62.4	93.0	99.8	10-115	7.1	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	234	253	93.6	101	43-140		
SURROGATE: 2-FLUORBIPHENYL (S)	125	111	115	88.8	92.0	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	233	244	93.2	97.6	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	115	122	92.0	97.6	44-120		
SURROGATE: PHENOL-D6 (S)	250	231	243	92.4	97.2	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	129	135	103	108	50-134		

Comments:

Primary	SPK	DUP
Quant Method :	Y1009.M	Y1009.M
Extraction Date :	10/21/20	10/21/20
Analysis Date :	10/23/20	10/23/20
Instrument :	Yoda	Yoda
Run :	1009Y220	1009Y221
Initials :	MA	

Printed: 10/26/20 5:39:20 PM
APPL Standard LCSD

Matrix Spike Recoveries
EPA 8270D WATER

APPL ID: **201022W-20539 MS - 257854**
Batch ID: #87DC5-201021A
Sample ID: BA20539
Client ID: ERH1192

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	ND	55.2	54.5	88.3	87.2	10-115	1.3	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	NA	228	236	91.2	94.4	43-140		
SURROGATE: 2-FLUORBIPHENYL (S)	125	NA	107	113	85.6	90.4	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	NA	222	218	88.8	87.2	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	NA	110	114	88.0	91.2	44-120		
SURROGATE: PHENOL-D6 (S)	250	NA	219	217	87.6	86.8	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	NA	123	121	98.4	96.8	50-134		

Comments:

Primary	SPK	DUP
Quant Method :	Y1009.M	Y1009.M
Extraction Date :	10/22/20	10/22/20
Analysis Date :	10/26/20	10/26/20
Instrument :	Yoda	Yoda
Run :	1009Y242	1009Y243
Initials :	MA	

Printed: 10/26/20 5:39:25 PM
APPL MSD SCII

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Soil
ID: 1009Y002.D

SDG No:
Date Analyzed: 10/09/20
Instrument: Yoda
Time Analyzed: 10:55

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		4ug/mL 8270 7/22/20	1009Y003.D	10/09/20 11:14
2		5ug/mL 8270 7/22/20	1009Y004.D	10/09/20 11:40
3		10ug/mL 8270 7/22/20	1009Y005.D	10/09/20 12:05
4		20ug/mL 8270 7/22/20	1009Y006.D	10/09/20 12:31
5		40ug/mL 8270 7/22/20	1009Y007.D	10/09/20 12:56
6		50ug/mL 8270 7/22/20	1009Y008.D	10/09/20 13:22
7		60ug/mL 8270 7/22/20	1009Y009.D	10/09/20 13:48
8		80ug/mL 8270 7/22/20	1009Y010.D	10/09/20 14:13
9		100ug/mL 8270 7/22/2	1009Y011.D	10/09/20 14:38
10		SS 50ug/mL 8270 7/22	1009Y012.D	10/09/20 15:04
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	30.7
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.2
127	10 - 80% of mass 198	45.8
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.9
275	10 - 60% of mass 198	27.3
365	1 - 100% of mass 198	2.7
441	0.01 - 24% of mass 442	16.5
442	50 - 500% of mass 197.95	76.1
443	15 - 24% of mass 442	19.4

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Soil
ID: 1009Y217.D

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Time Analyzed: 12:41

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		50ug/mL 8270 7/22/20	1009Y218.D	10/23/20 12:56
2	Blank	201021A BLK 1/800	1009Y219.D	10/23/20 13:21
3	Lab Control Spike	201021A LCS-1 1/800	1009Y220.D	10/23/20 13:47
4	Lab Control SpikeD	201021A LCSD-1 1/800	1009Y221.D	10/23/20 14:13
5		50ug/mL 8270 8/13/20	1009Y236.D	10/23/20 20:35
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	33.1
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.4
127	10 - 80% of mass 198	48.0
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.6
275	10 - 60% of mass 198	26.2
365	1 - 100% of mass 198	2.8
441	0.01 - 24% of mass 442	10.6
442	50 - 500% of mass 197.95	76.2
443	15 - 24% of mass 442	19.6

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93818
Case No: 93818 Date Analyzed: 10/26/20
Matrix: water Instrument: Yoda
ID: 1009Y240.D Time Analyzed: 11:40

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		50ug/mL 8270 7/22/20	1009Y241.D	10/26/20 11:56
2		BA20539W28 MS-1 1/80	1009Y242.D	10/26/20 13:11
3		BA20539W27 MSD-1 1/8	1009Y243.D	10/26/20 13:36
4	ERH1192	BA20539W34 1/800	1009Y244.D	10/26/20 14:18
5	ERH1194	BA20541W11 1/800	1009Y245.D	10/26/20 14:44
6	ERH1195	BA20542W13 1/800	1009Y246.D	10/26/20 15:09
7	ERH1190	BA20544W15 1/800	1009Y247.D	10/26/20 15:34
8		50ug/mL 8270 7/22/20	1009Y248.D	10/26/20 15:59
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	33.1
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.3
127	10 - 80% of mass 198	47.8
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.8
275	10 - 60% of mass 198	27.6
365	1 - 100% of mass 198	2.8
441	0.01 - 24% of mass 442	6.0
442	50 - 500% of mass 197.95	78.9
443	15 - 24% of mass 442	19.5

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1009Y218.D Date Analyzed: 10/23/20

Instrument ID: Yoda Time Analyzed: 12:56

GC Column: ID: Heated Purge: (Y/N)

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	157272	5.11	623624	6.53	374698	8.55
	UPPER LIMIT	314544	5.28	1247248	6.70	749396	8.72
	LOWER LIMIT	78636	4.94	311812	6.36	187349	8.38
	SAMPLE NO.						
01	201021A BLK 1/800	148761	5.11	607132	6.52	370629	8.55
02	201021A LCS-1 1/800	144438	5.11	584633	6.53	352993	8.55
03	201021A LCSD-1 1/800	143484	5.11	576643	6.53	351287	8.55
04	50ug/mL 8270 8/13/20 (	173637	5.11	737280	6.53	458437	8.55
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
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16							
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19							
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21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1009Y218.D Date Analyzed: 10/23/20

Instrument ID: Yoda Time Analyzed: 12:56

GC Column: ID: Heated Purge: (Y/N)

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	731491	10.27	731177	13.36	742323	15.06
	UPPER LIMIT	1462982	10.44	1462354	13.53	1484646	15.23
	LOWER LIMIT	365746	10.10	365589	13.19	371162	14.89
	SAMPLE NO.						
01	201021A BLK 1/800	718091	10.27	743070	13.36	716825	15.06
02	201021A LCS-1 1/800	710154	10.27	702959	13.36	698448	15.06
03	201021A LCSD-1 1/800	691284	10.27	694410	13.36	701317	15.06
04	50ug/mL 8270 8/13/20 (	893524	10.27	913770	13.37	897270	15.06
05							
06							
07							
08							
09							
10							
11							
12							
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19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1009Y241.D Date Analyzed: 10/26/20

Instrument ID: Yoda Time Analyzed: 11:56

GC Column: ID: Heated Purge: (Y/N)

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	161641	5.11	654305	6.52	395199	8.55
	UPPER LIMIT	323282	5.28	1308610	6.69	790398	8.72
	LOWER LIMIT	80821	4.94	327153	6.35	197600	8.38
	SAMPLE NO.						
01	BA20539W28 MS-1 1/8(	154125	5.11	625662	6.52	378613	8.55
02	BA20539W27 MSD-1 1/	149230	5.11	597199	6.53	357195	8.54
03	BA20539W34 1/800	153641	5.11	625464	6.52	377061	8.55
04	BA20541W11 1/800	156368	5.12	629520	6.53	377095	8.54
05	BA20542W13 1/800	151573	5.11	610989	6.52	370026	8.54
06	BA20544W15 1/800	150510	5.11	602471	6.52	365253	8.54
07	50ug/mL 8270 7/22/20 (	163892	5.11	658830	6.53	399785	8.54
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1009Y241.D Date Analyzed: 10/26/20

Instrument ID: Yoda Time Analyzed: 11:56

GC Column: ID: Heated Purge: (Y/N)

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	764732	10.27	778140	13.36	796412	15.07
	UPPER LIMIT	1529464	10.44	1556280	13.53	1592824	15.24
	LOWER LIMIT	382366	10.10	389070	13.19	398206	14.90
	SAMPLE NO.						
01	BA20539W28 MS-1 1/8(	740648	10.27	760723	13.36	753071	15.06
02	BA20539W27 MSD-1 1/	702735	10.27	735995	13.36	728633	15.06
03	BA20539W34 1/800	756400	10.27	756837	13.36	744062	15.06
04	BA20541W11 1/800	753617	10.27	748060	13.35	750287	15.06
05	BA20542W13 1/800	720118	10.26	735398	13.36	717833	15.06
06	BA20544W15 1/800	712123	10.27	724074	13.36	714348	15.07
07	50ug/mL 8270 7/22/20 (	781952	10.28	808857	13.36	799434	15.06
08							
09							
10							
11							
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13							
14							
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22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201021A-BLK	Blank	39-114	108		58-120	111	
201021A-LCS	Lab Control Spike	39-114	92.0		58-120	101	
201021A-LCSD	Lab Control SpikeD	39-114	92.2		58-120	105	
BA20539-MS	Matrix Spike	39-114	95.8		58-120	108	
BA20539-MSD	Matrix SpikeD	39-114	97.1		58-120	112	
BA20539	ERH1192	39-114	82.7		58-120	98.3	
BA20541	ERH1194	39-114	110		58-120	111	
BA20542	ERH1195	39-114	109		58-120	95.0	
BA20544	ERH1190	39-114	113		58-120	107	

Comments: Batch: #SIM53-201021A

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Linus

Blank ID: 201021A-BLK Time Analyzed: 1424

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1016L118	10/23/20 1424
201021A-LCS	Lab Control Spike	1016L119	10/23/20 1446
201021A-LCSD	Lab Control SpikeD	1016L120	10/23/20 1509
201021A-MS	Matrix Spike	1016L127	10/27/20 1012
201021A-MSD	Matrix SpikeD	1016L128	10/27/20 1034
BA20539	ERH1192	1016L129	10/27/20 1056
BA20541	ERH1194	1016L130	10/27/20 1118
BA20542	ERH1195	1016L131	10/27/20 1140
BA20544	ERH1190	1016L132	10/27/20 1202

Comments: Batch: #SIM53-201021A

Method Blank
EPA 8270D SIM LIQ-LIQ

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201021W-20539 - 257900**
Batch ID: #SIM53-201021A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/21/20	10/23/20
BLANK	SURROGATE: 2-METHYLNAPHT	108	39-114			%	10/21/20	10/23/20
BLANK	SURROGATE: FLUORANTHENE-	111	58-120			%	10/21/20	10/23/20

Quant Method:L1016.M
Run #:1016L118
Instrument:Linus
Sequence:L201016
Initials:MA

GC SC-Blank-REG MDLs-DOD
Printed: 10/28/20 3:04:03 PM

8270D-SIM

Form 4

LCS Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Linus

LCS ID: 201021A-LCS Time Analyzed: 1446

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201021A-BLK	Blank	1016L118	10/23/20 1424
201021A-LCS	Lab Control Spike	1016L119	10/23/20 1446
201021A-LCSD	Lab Control SpikeD	1016L120	10/23/20 1509
201021A-MS	Matrix Spike	1016L127	10/27/20 1012
201021A-MSD	Matrix SpikeD	1016L128	10/27/20 1034
BA20539	ERH1192	1016L129	10/27/20 1056
BA20541	ERH1194	1016L130	10/27/20 1118
BA20542	ERH1195	1016L131	10/27/20 1140
BA20544	ERH1190	1016L132	10/27/20 1202

Comments: Batch: #SIM53-201021A

Laboratory Control Spike Recoveries
EPA 8270D SIM LIQ-LIQ

APPL ID: **201021W-20539 LCS - 257900**
Batch ID: #SIM53-201021A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	5.36	5.37	85.8	85.9	41-115	0.19	20
2-METHYLNAPHTHALENE	6.25	5.38	5.38	86.1	86.1	39-114	0.0	20
NAPHTHALENE	6.25	5.78	5.61	92.5	89.8	43-114	3.0	20
SURROGATE: 2-METHYLNAPHTHALEN	6.25	5.75	5.76	92.0	92.2	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.30	6.56	101	105	58-120		

Comments:

Primary	SPK	DUP
Quant Method :	L1016.M	L1016.M
Extraction Date :	10/21/20	10/21/20
Analysis Date :	10/23/20	10/23/20
Instrument :	Linus	Linus
Run :	1016L119	1016L120
Initials :	MA	

Matrix Spike Recoveries
EPA 8270D SIM LIQ-LIQ

APPL ID: **201021W-20539 MS - 257900**
Batch ID: #SIM53-201021A
Sample ID: BA20539
Client ID: ERH1192

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	ND	5.50	5.77	88.0	92.3	41-115	4.8	20
2-METHYLNAPHTHALENE	6.25	ND	5.67	5.58	90.7	89.3	39-114	1.6	20
NAPHTHALENE	6.25	ND	5.85	5.18	93.6	82.9	43-114	12.1	20
SURROGATE: 2-METHYLNAPHTHALEN	6.25	NA	5.99	6.07	95.8	97.1	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	NA	6.73	6.98	108	112	58-120		

Comments:

Primary	SPK	DUP
Quant Method :	L1016.M	L1016.M
Extraction Date :	10/21/20	10/21/20
Analysis Date :	10/27/20	10/27/20
Instrument :	Linus	Linus
Run :	1016L127	1016L128
Initials :	MA	

Printed: 10/28/20 3:03:40 PM
APPL MSD SCII

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1016L002.D

SDG No:
Date Analyzed: 10/16/20
Instrument: Linus
Time Analyzed: 10:21

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		0.1 SIM 08/21/20	1016L003.D	10/16/20 10:37
2		0.2 SIM 08/21/20	1016L004.D	10/16/20 10:59
3		0.5 SIM 08/21/20	1016L005.D	10/16/20 11:21
4		1 SIM 08/21/20	1016L006.D	10/16/20 11:43
5		5 SIM 08/21/20	1016L007.D	10/16/20 12:05
6		10 SIM 08/21/20	1016L008.D	10/16/20 12:27
7		50 SIM 08/21/20	1016L009.D	10/16/20 12:50
8		100 SIM 08/21/20	1016L010.D	10/16/20 13:12
9		SS SIM 08/21/20	1016L011.D	10/16/20 13:34
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.1% of mass 198	16.6
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.6
127	10 - 80% of mass 198	38.1
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.7
275	10 - 60% of mass 198	35.8
365	1 - 100% of mass 198	5.1
441	0.01 - 24% of mass 442	14.9
442	50 - 500% of mass 198	293.3
443	15 - 24% of mass 442	19.2

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1016L116.D

SDG No:
Date Analyzed: 10/23/20
Instrument: Linus
Time Analyzed: 10:31

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		5 SIM 08/21/20 (1)	1016L117.D	10/23/20 11:22
2	Blank	201021A BLK 1/800	1016L118.D	10/23/20 14:24
3	Lab Control Spike	201021A LCS-2 1/800	1016L119.D	10/23/20 14:46
4	Lab Control SpikeD	201021A LCSD-2 1/800	1016L120.D	10/23/20 15:09
5		5 SIM 08/21/20 (2)	1016L123.D	10/23/20 16:15
6				
7				
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9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.1% of mass 198	15.9
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.6
127	10 - 80% of mass 198	38.9
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.7
275	10 - 60% of mass 198	33.1
365	1 - 100% of mass 198	4.9
441	0.01 - 24% of mass 442	15.9
442	50 - 500% of mass 198	241.9
443	15 - 24% of mass 442	19.6

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1016L117.D Date Analyzed: 10/23/20

Instrument ID: Linus Time Analyzed: 11:22

GC Column: ID: Heated Purge: (Y/N)

		Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	46756	4.27	27674	6.28	50490	7.99
	UPPER LIMIT	93512	4.44	55348	6.45	100980	8.16
	LOWER LIMIT	23378	4.10	13837	6.11	25245	7.82
	SAMPLE NO.						
01	201021A BLK 1/800	36479	4.27	18826	6.28	36720	7.99
02	201021A LCS-2 1/800	33312	4.27	17203	6.28	34685	7.99
03	201021A LCSD-2 1/800	35659	4.27	20111	6.28	36788	7.99
04	5 SIM 08/21/20 (2)	45063	4.27	25522	6.28	56001	7.99
05							
06							
07							
08							
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10							
11							
12							
13							
14							
15							
16							
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18							
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22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1016L117.D Date Analyzed: 10/23/20

Instrument ID: Linus Time Analyzed: 11:22

GC Column: ID: Heated Purge: (Y/N)

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	70872	11.13	76980	13.56		
	UPPER LIMIT	141744	11.30	153960	13.73		
	LOWER LIMIT	35436	10.96	38490	13.39		
	SAMPLE NO.						
01	201021A BLK 1/800	52875	11.12	57632	13.56		
02	201021A LCS-2 1/800	47498	11.13	51583	13.56		
03	201021A LCSD-2 1/800	55255	11.13	58690	13.56		
04	5 SIM 08/21/20 (2)	72836	11.13	85621	13.56		
05							
06							
07							
08							
09							
10							
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22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

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* Values outside of QC limits.

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/27/20

Matrix: WATER Instrument: Yoda

Blank ID: 201026A-BLK Time Analyzed: 1106

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-BLK	Blank	0501Y132	10/27/20 1106
201026A-LCS	Lab Control Spike	0501Y133	10/27/20 1130
BA20539	ERH1192	0501Y135	10/27/20 1216
201026A-MS	Matrix Spike	0501Y136	10/27/20 1240
201026A-MSD	Matrix SpikeD	0501Y137	10/27/20 1304
BA20541	ERH1194	0501Y138	10/27/20 1327
BA20542	ERH1195	0501Y139	10/27/20 1351
BA20544	ERH1190	0501Y140	10/27/20 1415

Comments: Batch: #87DME-201026A

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **201026W-20539 - 257898**
Batch ID: #87DME-201026A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	10/26/20	10/27/20

Quant Method: YMEE0501.M
Run #: 0501Y132
Instrument: Yoda
Sequence: Y200501M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 10/28/20 3:14:09 PM

EPA 8270D

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/27/20
Matrix:	WATER	Instrument:	Yoda
LCS ID:	201026A-LCS	Time Analyzed:	1130

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-BLK	Blank	0501Y132	10/27/20 1106
201026A-LCS	Lab Control Spike	0501Y133	10/27/20 1130
BA20539	ERH1192	0501Y135	10/27/20 1216
201026A-MS	Matrix Spike	0501Y136	10/27/20 1240
201026A-MSD	Matrix SpikeD	0501Y137	10/27/20 1304
BA20541	ERH1194	0501Y138	10/27/20 1327
BA20542	ERH1195	0501Y139	10/27/20 1351
BA20544	ERH1190	0501Y140	10/27/20 1415

Comments: Batch: #87DME-201026A

Laboratory Control Spike Recovery
EPA 8270D MODIFIED WATER

APPL ID: **201026W-20539 LCS - 257898**
Batch ID: #87DME-201026A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	65.3	81.6	30-130

Comments:

Primary	SPK
Quant Method :	YMEE0501.M
Extraction Date :	10/26/20
Analysis Date :	10/27/20
Instrument :	Yoda
Run :	0501Y133
Initials :	MA

Printed: 10/28/20 3:13:54 PM
APPL Standard LCS

Matrix Spike Recoveries
EPA 8270D MODIFIED WATER

APPL ID: **201026W-20539 MS - 257898**
Batch ID: #87DME-201026A
Sample ID: BA20539
Client ID: ERH1192

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	ND	86.5	56.7	108	70.9	30-130	41.6 #	20

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	YMEE0501.M	YMEE0501.M
Extraction Date :	10/26/20	10/26/20
Analysis Date :	10/27/20	10/27/20
Instrument :	Yoda	Yoda
Run :	0501Y136	0501Y137
Initials :	MA	

Printed: 10/28/20 3:13:51 PM
APPL MSD SCII

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Soil
ID: 0501Y002.D

SDG No:
Date Analyzed: 05/01/20
Instrument: Yoda
Time Analyzed: 9:23

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		50ug/ml MEE 05/01/20	0501Y003.D	05/01/20 9:39
2		100ug/ml MEE 05/01/2	0501Y004.D	05/01/20 10:03
3		200ug/ml MEE 05/01/2	0501Y006.D	05/01/20 10:51
4		400ug/ml MEE 05/01/2	0501Y007.D	05/01/20 11:24
5		500ug/ml MEE 05/01/2	0501Y008.D	05/01/20 11:48
6		600ug/ml MEE 05/01/2	0501Y009.D	05/01/20 12:13
7		800ug/ml MEE 05/01/2	0501Y010.D	05/01/20 12:37
8		1000ug/ml MEE 05/01/	0501Y011.D	05/01/20 13:01
9		SSug/ml MEE 05/01/20	0501Y013.D	05/01/20 13:50
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	10 - 80% of mass 198	40.1
68	0 - 2% of mass 69	0.0
70	0 - 2% of mass 69	0.5
127	10 - 80% of mass 198	52.5
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.8
275	10 - 60% of mass 198	26.7
365	1 - 100% of mass 198	2.8
441	0.01 - 24% of mass 442	3.9
442	50 - 500% of mass 198	71.6
443	15 - 24% of mass 442	19.8

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93818
Case No: 93818 Date Analyzed: 10/27/20
Matrix: Water Instrument: Yoda
ID: 0501Y130.D Time Analyzed: 10:27

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		500ug/ml MEE 05/01/2	0501Y131.D	10/27/20 10:42
2	Blank	201026A BLK 2/500	0501Y132.D	10/27/20 11:06
3	Lab Control Spike	201026A LCS-1 2/500	0501Y133.D	10/27/20 11:30
4		BA20539W15 MS-1 2/50	0501Y136.D	10/27/20 12:40
5		BA20539W14 MSD-1 2/5	0501Y137.D	10/27/20 13:04
6	ERH1194	BA20541W07 2/500	0501Y138.D	10/27/20 13:27
7	ERH1195	BA20542W08 2/500	0501Y139.D	10/27/20 13:51
8	ERH1190	BA20544W10 2/500	0501Y140.D	10/27/20 14:15
9		500ug/ml MEE 05/01/2	0501Y141.D	10/27/20 14:38
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.04% of mass 198	35.6
68	0 - 2.04% of mass 69	0.0
70	0 - 2.04% of mass 69	0.3
127	10 - 80% of mass 198	49.1
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 197.95	100.0
199	5 - 9% of mass 198	6.9
275	10 - 60% of mass 198	26.6
365	1 - 100% of mass 198	2.7
441	0.01 - 24% of mass 442	10.1
442	50 - 500% of mass 197.95	70.8
443	15 - 24% of mass 442	19.9

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 0501Y131.D Date Analyzed: 10/27/20

Instrument ID: Yoda Time Analyzed: 10:42

GC Column: ID: Heated Purge: (Y/N)

	1,4-dichlorobenzene-D4(IS)							
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
	12 HOUR STD	179268	5.37					
	UPPER LIMIT	358536	5.54					
	LOWER LIMIT	89634	5.20					
	SAMPLE NO.							
01	201026A BLK 2/500	175209	5.36					
02	201026A LCS-1 2/500	187647	5.36					
03	BA20539W15 MS-1 2/5(	140732	5.35					
04	BA20539W14 MSD-1 2/	199159	5.36					
05	BA20541W07 2/500	170533	5.36					
06	BA20542W08 2/500	172581	5.37					
07	BA20544W10 2/500	200863	5.37					
08	500ug/ml MEE 05/01/20	143100	5.37					
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/24/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201023AZ-LCS	Lab Control Spike	81-118	101		85-114	100	
201023AZ-LCSD	Lab Control SpikeD	81-118	100		85-114	100	
201023AZ-BLK	Blank	81-118	101		85-114	103	
BA20538	ERH1191	81-118	101		85-114	102	
BA20539	ERH1192	81-118	102		85-114	102	
BA20543	ERH1189	81-118	101		85-114	104	
BA20544	ERH1190	81-118	101		85-114	105	
BA20539-MS	Matrix Spike	81-118	97.6		85-114	102	
BA20539-MSD	Matrix SpikeD	81-118	99.6		85-114	103	

Comments: Batch: #86BTO-201023AZ

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/24/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201023AZ-LCS	Lab Control Spike	80-119	103		89-112	105	
201023AZ-LCSD	Lab Control SpikeD	80-119	103		89-112	104	
201023AZ-BLK	Blank	80-119	105		89-112	104	
BA20538	ERH1191	80-119	105		89-112	104	
BA20539	ERH1192	80-119	106		89-112	104	
BA20543	ERH1189	80-119	103		89-112	107	
BA20544	ERH1190	80-119	103		89-112	108	
BA20539-MS	Matrix Spike	80-119	99.2		89-112	107	
BA20539-MSD	Matrix SpikeD	80-119	100		89-112	108	

Comments: Batch: #86BTO-201023AZ

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/24/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201023AZ1-LCS	Lab Control Spike	81-118	101		85-114	100	
201023AZ1-LCSD	Lab Control SpikeD	81-118	100		85-114	100	
201023AZ1-BLK	Blank	81-118	101		85-114	103	
BA20540	ERH1193	81-118	100		85-114	102	
BA20541	ERH1194	81-118	99.4		85-114	103	
BA20542	ERH1195	81-118	99.6		85-114	102	

Comments: Batch: #86BTO-201023AZ

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/24/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
201023AZ1-LCS	Lab Control Spike	80-119	103		89-112	105	
201023AZ1-LCSD	Lab Control SpikeD	80-119	103		89-112	104	
201023AZ1-BLK	Blank	80-119	105		89-112	104	
BA20540	ERH1193	80-119	104		89-112	105	
BA20541	ERH1194	80-119	103		89-112	105	
BA20542	ERH1195	80-119	103		89-112	105	

Comments: Batch: #86BTO-201023AZ

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
Blank ID:	201023AZ-BLK	Time Analyzed:	0218

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ-LCS	Lab Control Spike	1023Z33	10/24/20 0023
201023AZ-LCSD	Lab Control SpikeD	1023Z34	10/24/20 0046
201023AZ-BLK	Blank	1023Z38	10/24/20 0218
BA20538	ERH1191	1023Z39	10/24/20 0242
BA20539	ERH1192	1023Z40	10/24/20 0305
BA20543	ERH1189	1023Z44	10/24/20 0437
BA20544	ERH1190	1023Z45	10/24/20 0500
201023AZ-MS	Matrix Spike	1023Z48	10/24/20 0609
201023AZ-MSD	Matrix SpikeD	1023Z49	10/24/20 0632

Comments: Batch: #86BTO-201023AZ

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
Blank ID:	201023AZ1-BLK	Time Analyzed:	0218

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ1-LCS	Lab Control Spike	1023Z33	10/24/20 0023
201023AZ1-LCSD	Lab Control SpikeD	1023Z34	10/24/20 0046
201023AZ1-BLK	Blank	1023Z38	10/24/20 0218
BA20540	ERH1193	1023Z41	10/24/20 0328
BA20541	ERH1194	1023Z42	10/24/20 0351
BA20542	ERH1195	1023Z43	10/24/20 0414

Comments: Batch: #86BTO-201023AZ

Method Blank
EPA 8260B BTEX WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201023W-20539 - 257892**
Batch ID: #86BTO-201023AZ

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
BLANK	SURROGATE: 1,2-DICHLOROET	101	81-118			%	10/24/20	10/24/20
BLANK	SURROGATE: 4-BROMOFLUORO	103	85-114			%	10/24/20	10/24/20
BLANK	SURROGATE: DIBROMOFLUOR	105	80-119			%	10/24/20	10/24/20
BLANK	SURROGATE: TOLUENE-D8 (S)	104	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z38
Instrument: ZEUS
Sequence: 201023
Initials: DG

GC SC-Blank-REG MDLs-DOD
Printed: 10/28/20 10:33:25 AM

Method Blank
EPA 8260B BTEX & 1,2-DCA WATER

Blank Name/QCG: **201023W-20540 - 257893**
Batch ID: #86BTO-201023AZ1

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/24/20	10/24/20
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/24/20	10/24/20
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/24/20	10/24/20
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/24/20	10/24/20
BLANK	SURROGATE: 1,2-DICHLOROET	101	81-118			%	10/24/20	10/24/20
BLANK	SURROGATE: 4-BROMOFLUORO	103	85-114			%	10/24/20	10/24/20
BLANK	SURROGATE: DIBROMOFLUOR	105	80-119			%	10/24/20	10/24/20
BLANK	SURROGATE: TOLUENE-D8 (S)	104	89-112			%	10/24/20	10/24/20

Quant Method: Z1023W.M
Run #: 1023Z38
Instrument: ZEUS
Sequence: 201023
Initials: DG

GC SC-Blank-REG MDLs-DOD
Printed: 10/28/20 10:33:25 AM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
LCS ID:	201023AZ-LCS	Time Analyzed:	0023

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ-LCS	Lab Control Spike	1023Z33	10/24/20 0023
201023AZ-LCSD	Lab Control SpikeD	1023Z34	10/24/20 0046
201023AZ-BLK	Blank	1023Z38	10/24/20 0218
BA20538	ERH1191	1023Z39	10/24/20 0242
BA20539	ERH1192	1023Z40	10/24/20 0305
BA20543	ERH1189	1023Z44	10/24/20 0437
BA20544	ERH1190	1023Z45	10/24/20 0500
201023AZ-MS	Matrix Spike	1023Z48	10/24/20 0609
201023AZ-MSD	Matrix SpikeD	1023Z49	10/24/20 0632

Comments: Batch: #86BTO-201023AZ

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
LCS ID:	201023AZ1-LCS	Time Analyzed:	0023

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ1-LCS	Lab Control Spike	1023Z33	10/24/20 0023
201023AZ1-LCSD	Lab Control SpikeD	1023Z34	10/24/20 0046
201023AZ1-BLK	Blank	1023Z38	10/24/20 0218
BA20540	ERH1193	1023Z41	10/24/20 0328
BA20541	ERH1194	1023Z42	10/24/20 0351
BA20542	ERH1195	1023Z43	10/24/20 0414

Comments: Batch: #86BTO-201023AZ

Laboratory Control Spike Recoveries
EPA 8260B BTEX WATER

APPL ID: **201024W-20539 LCS - 257892**
Batch ID: #86BTO-201023AZ

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	9.41	9.23	94.1	92.3	79-120	1.9	20
ETHYLBENZENE	10.00	9.34	9.36	93.4	93.6	79-121	0.21	20
TOLUENE	10.00	9.15	9.15	91.5	91.5	80-121	0.0	20
XYLENES (TOTAL)	30.0	27.9	27.9	93.0	93.0	79-121	0.0	20
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	25.2	25.1	101	100	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.1	25.1	100	100	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	25.8	25.7	103	103	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	26.2	25.9	105	104	89-112		

Comments:

Primary	SPK	DUP
Quant Method :	Z1023W.M	Z1023W.M
Extraction Date :	10/24/20	10/24/20
Analysis Date :	10/24/20	10/24/20
Instrument :	ZEUS	ZEUS
Run :	1023Z33	1023Z34
Initials :	DG	

Laboratory Control Spike Recoveries
EPA 8260B BTEX & 1,2-DCA WATER

APPL ID: **201024W-20540 LCS - 257893**
Batch ID: #86BTO-201023AZ1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2-DICHLOROETHANE	10.00	8.94	8.82	89.4	88.2	73-128	1.4	20
BENZENE	10.00	9.41	9.23	94.1	92.3	79-120	1.9	20
ETHYLBENZENE	10.00	9.34	9.36	93.4	93.6	79-121	0.21	20
TOLUENE	10.00	9.15	9.15	91.5	91.5	80-121	0.0	20
XYLENES (TOTAL)	30.0	27.9	27.9	93.0	93.0	79-121	0.0	20
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	25.2	25.1	101	100	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.1	25.1	100	100	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	25.8	25.7	103	103	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	26.2	25.9	105	104	89-112		

Comments:

Primary	SPK	DUP
Quant Method :	Z1023W.M	Z1023W.M
Extraction Date :	10/24/20	10/24/20
Analysis Date :	10/24/20	10/24/20
Instrument :	ZEUS	ZEUS
Run :	1023Z33	1023Z34
Initials :	DG	

Matrix Spike Recoveries
EPA 8260B BTEX WATER

APPL ID: **201024W-20539 MS - 257892**
Batch ID: #86BTO-201023AZ
Sample ID: BA20539
Client ID: ERH1192

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	ND	9.57	9.09	95.7	90.9	79-120	5.1	20
ETHYLBENZENE	10.00	ND	9.95	9.47	99.5	94.7	79-121	4.9	20
TOLUENE	10.00	ND	9.44	9.00	94.4	90.0	80-121	4.8	20
XYLENES (TOTAL)	30.0	ND	29.5	28.1	98.3	93.7	79-121	4.9	20
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	NA	24.4	24.9	97.6	99.6	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	NA	25.5	25.7	102	103	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	NA	24.8	25.0	99.2	100	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	NA	26.8	27.0	107	108	89-112		

Comments:

Primary	SPK	DUP
Quant Method :	Z1023W.M	Z1023W.M
Extraction Date :	10/24/20	10/24/20
Analysis Date :	10/24/20	10/24/20
Instrument :	ZEUS	ZEUS
Run :	1023Z48	1023Z49
Initials :	DG	

Printed: 10/28/20 10:33:08 AM
APPL MSD SCII

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1023Z05.D

SDG No:
Date Analyzed: 10/23/20
Instrument: ZEUS
Time Analyzed: 13:28

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		0.3ug/L VOC STD 10/2	1023Z12.D	10/23/20 16:16
2		0.5ug/L VOC STD 10/2	1023Z13.D	10/23/20 16:39
3		1ug/L VOC STD 10/23/	1023Z14.D	10/23/20 17:02
4		2ug/L VOC STD 10/23/	1023Z15.D	10/23/20 17:26
5		5ug/L VOC STD 10/23/	1023Z16.D	10/23/20 17:49
6		10ug/L VOC STD 10/23	1023Z17.D	10/23/20 18:12
7		20ug/L VOC STD 10/23	1023Z18.D	10/23/20 18:35
8		40ug/L VOC STD 10/23	1023Z19.D	10/23/20 18:58
9		100ug/L VOC STD 10/2	1023Z20.D	10/23/20 19:21
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	18.0
75	30 - 60% of mass 95	43.9
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	7.2
173	0 - 2.05% of mass 174	0.0
174	50 - 200% of mass 95	70.6
175	5 - 9% of mass 174	7.2
176	95 - 101% of mass 174	96.5
177	5 - 9% of mass 176	6.8

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 93818
Case No: 93818 Date Analyzed: 10/23/20
Matrix: Water Instrument: ZEUS
ID: 1023Z30.D Time Analyzed: 23:13

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		201023A CCV 10ug/L	1023Z32.D	10/24/20 0:00
2	Lab Control Spike	201023A LCS 10ug/L	1023Z33.D	10/24/20 0:23
3	Lab Control SpikeD	201023A LCSD 10ug/L	1023Z34.D	10/24/20 0:46
4	Blank	201023A BLK	1023Z38.D	10/24/20 2:18
5	ERH1191	BA20538W01	1023Z39.D	10/24/20 2:42
6	ERH1192	BA20539W01	1023Z40.D	10/24/20 3:05
7	ERH1193	BA20540W01	1023Z41.D	10/24/20 3:28
8	ERH1194	BA20541W01	1023Z42.D	10/24/20 3:51
9	ERH1195	BA20542W01	1023Z43.D	10/24/20 4:14
10	ERH1189	BA20543W01	1023Z44.D	10/24/20 4:37
11	ERH1190	BA20544W01	1023Z45.D	10/24/20 5:00
12		BA20539W02,3,6 MS 10	1023Z48.D	10/24/20 6:09
13		BA20539W03,2,6 MSD 1	1023Z49.D	10/24/20 6:32
14		Ending CCV 10ug/L 10	1023Z52.D	10/24/20 7:41
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	16.7
75	30 - 60% of mass 95	42.1
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.8
173	0 - 2.05% of mass 174	0.5
174	50 - 200% of mass 95	90.6
175	5 - 9% of mass 174	7.2
176	95 - 101% of mass 174	97.7
177	5 - 9% of mass 176	6.9

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1023Z17.D Date Analyzed: 10/23/20

Instrument ID: ZEUS Time Analyzed: 18:12

GC Column: ID: Heated Purge: (Y/N)

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2263170	5.02	1720200	7.67	1020670	9.88
	UPPER LIMIT	4526340	5.19	3440400	7.84	2041340	10.05
	LOWER LIMIT	1131585	4.85	860100	7.50	510335	9.71
	SAMPLE NO.						
01	(SS)10ug/L VOC STD 1	2348020	5.02	1771920	7.67	1042870	9.88
02	201023A LCS 10ug/L	2146750	5.02	1614290	7.67	938690	9.88
03	201023A LCSD 10ug/L	2159390	5.02	1623520	7.67	942459	9.88
04	201023A BLK	2010660	5.02	1515460	7.67	869793	9.88
05	BA20538W01	1997070	5.02	1508040	7.67	855446	9.88
06	BA20539W01	1935350	5.02	1460050	7.67	829030	9.88
07	BA20540W01	1971330	5.02	1473820	7.67	820646	9.88
08	BA20541W01	1921640	5.02	1427330	7.67	790488	9.88
09	BA20542W01	1917350	5.02	1432820	7.67	787056	9.88
10	BA20543W01	1938190	5.02	1431670	7.67	778955	9.88
11	BA20544W01	1839030	5.02	1357330	7.67	727076	9.88
12	BA20539W02,3,6 MS 1(	1852560	5.02	1343960	7.67	735008	9.88
13	BA20539W03,2,6 MSD	1841040	5.02	1337440	7.67	728874	9.88
14	Ending CCV 10ug/L 10/2	1846550	5.02	1311030	7.67	722561	9.88
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/24/20

Matrix: WATER Instrument: ZEUS

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
201023AZ-LCS	Lab Control Spike	85-114	101				
201023AZ-LCSD	Lab Control SpikeD	85-114	101				
201023AZ-BLK	Blank	85-114	103				
BA20538	ERH1191	85-114	102				
BA20539	ERH1192	85-114	102				
BA20540	ERH1193	85-114	102				
BA20541	ERH1194	85-114	103				
BA20542	ERH1195	85-114	102				
BA20543	ERH1189	85-114	104				
BA20544	ERH1190	85-114	105				
BA20539-MS	Matrix Spike	85-114	104				
BA20539-MSD	Matrix SpikeD	85-114	104				

Comments: Batch: #GRO86-201023AZ

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
Blank ID:	201023AZ-BLK	Time Analyzed:	0218

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ-LCS	Lab Control Spike	1023Z36	10/24/20 0132
201023AZ-LCSD	Lab Control SpikeD	1023Z37	10/24/20 0155
201023AZ-BLK	Blank	1023Z38	10/24/20 0218
BA20538	ERH1191	1023Z39	10/24/20 0242
BA20539	ERH1192	1023Z40	10/24/20 0305
BA20540	ERH1193	1023Z41	10/24/20 0328
BA20541	ERH1194	1023Z42	10/24/20 0351
BA20542	ERH1195	1023Z43	10/24/20 0414
BA20543	ERH1189	1023Z44	10/24/20 0437
BA20544	ERH1190	1023Z45	10/24/20 0500
201023AZ-MS	Matrix Spike	1023Z50	10/24/20 0655
201023AZ-MSD	Matrix SpikeD	1023Z51	10/24/20 0718

Comments: Batch: #GRO86-201023AZ

Method Blank
EPA 8260B GRO WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201023W-20539 - 257875**
Batch ID: #GRO86-201023AZ

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/24/20	10/24/20
BLANK	SURROGATE: 4-BROMOFLUORO	103	85-114			%	10/24/20	10/24/20

Quant Method: ZGAS1023.M
Run #: 1023Z38
Instrument: ZEUS
Sequence: 201023
Initials: DG

GC SC-Blank-REG MDLs-DOD
Printed: 10/28/20 10:43:25 AM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/24/20
Matrix:	WATER	Instrument:	ZEUS
LCS ID:	201023AZ-LCS	Time Analyzed:	0132

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201023AZ-LCS	Lab Control Spike	1023Z36	10/24/20 0132
201023AZ-LCSD	Lab Control SpikeD	1023Z37	10/24/20 0155
201023AZ-BLK	Blank	1023Z38	10/24/20 0218
BA20538	ERH1191	1023Z39	10/24/20 0242
BA20539	ERH1192	1023Z40	10/24/20 0305
BA20540	ERH1193	1023Z41	10/24/20 0328
BA20541	ERH1194	1023Z42	10/24/20 0351
BA20542	ERH1195	1023Z43	10/24/20 0414
BA20543	ERH1189	1023Z44	10/24/20 0437
BA20544	ERH1190	1023Z45	10/24/20 0500
201023AZ-MS	Matrix Spike	1023Z50	10/24/20 0655
201023AZ-MSD	Matrix SpikeD	1023Z51	10/24/20 0718

Comments: Batch: #GRO86-201023AZ

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: **201024W-20539 LCS - 257875**
Batch ID: #GRO86-201023AZ

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	277	278	92.3	92.7	78-122	0.36	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.2	25.2	101	101	85-114		

Comments:

Primary	SPK	DUP
Quant Method :	ZGAS1023.M	ZGAS1023.M
Extraction Date :	10/24/20	10/24/20
Analysis Date :	10/24/20	10/24/20
Instrument :	ZEUS	ZEUS
Run :	1023Z36	1023Z37
Initials :	DG	

Matrix Spike Recoveries
EPA 8260B GRO WATER

APPL ID: **201024W-20539 MS - 257875**
Batch ID: #GRO86-201023AZ
Sample ID: BA20539
Client ID: ERH1192

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	ND	295	286	98.3	95.3	78-122	3.1	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	NA	26.1	26.1	104	104	85-114		

Comments:

Primary	SPK	DUP
Quant Method :	ZGAS1023.M	ZGAS1023.M
Extraction Date :	10/24/20	10/24/20
Analysis Date :	10/24/20	10/24/20
Instrument :	ZEUS	ZEUS
Run :	1023Z50	1023Z51
Initials :	DG	

Printed: 10/28/20 10:43:07 AM
APPL MSD SCII

RSK 175

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/27/20
Matrix:	WATER	Instrument:	Rocky
Blank ID:	201027A-BLK	Time Analyzed:	1558

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201027A-LCS	Lab Control Spike	1027R02	10/27/20 1555
201027A-BLK	Blank	1027R03	10/27/20 1558
BA20538	ERH1191	1027R06	10/27/20 1608
BA20539	ERH1192	1027R07	10/27/20 1611
201027A-MS	Matrix Spike	1027R08	10/27/20 1613
201027A-MSD	Matrix SpikeD	1027R10	10/27/20 1619
BA20543	ERH1189	1027R11	10/27/20 1621
BA20544	ERH1190	1027R12	10/27/20 1623
201027A-LCSD	Lab Control SpikeD	1027R18	10/27/20 1637

Comments: Batch: #RSKME-201027A

Method Blank
METHANE

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **201027W-20539 - 257902**
Batch ID: #RSKME-201027A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/27/20	10/27/20

Quant Method: RSK0914A.M
Run #: 1027R03
Instrument: Rocky
Sequence: 200914
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 10/27/20 4:49:27 PM

RSK 175

Form 4

LCS Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/27/20

Matrix: WATER Instrument: Rocky

LCS ID: 201027A-LCS Time Analyzed: 1555

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201027A-LCS	Lab Control Spike	1027R02	10/27/20 1555
201027A-BLK	Blank	1027R03	10/27/20 1558
BA20538	ERH1191	1027R06	10/27/20 1608
BA20539	ERH1192	1027R07	10/27/20 1611
201027A-MS	Matrix Spike	1027R08	10/27/20 1613
201027A-MSD	Matrix SpikeD	1027R10	10/27/20 1619
BA20543	ERH1189	1027R11	10/27/20 1621
BA20544	ERH1190	1027R12	10/27/20 1623
201027A-LCSD	Lab Control SpikeD	1027R18	10/27/20 1637

Comments: Batch: #RSKME-201027A

Laboratory Control Spike Recoveries
METHANE

APPL ID: **201027W-20539 LCS - 257902**
Batch ID: #RSKME-201027A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	73.2	67.1	87.8	80.5	72-125	8.7	30

Comments:

Primary	SPK	DUP
Quant Method :	RSK0914A.M	RSK0914A.M
Extraction Date :	10/27/20	10/27/20
Analysis Date :	10/27/20	10/27/20
Instrument :	Rocky	Rocky
Run :	1027R02	1027R18
Initials :	GAG	

Matrix Spike Recoveries
METHANE

APPL ID: **201027W-20539 MS - 257902**
Batch ID: #RSKME-201027A
Sample ID: BA20539
Client ID: ERH1192

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	ND	78.4	80.7	94.0	96.8	72-125	2.9	30

Comments:

Primary	SPK	DUP
Quant Method :	RSK0914A.M	RSK0914A.M
Extraction Date :	10/27/20	10/27/20
Analysis Date :	10/27/20	10/27/20
Instrument :	Rocky	Rocky
Run :	1027R08	1027R10
Initials :	GAG	

Printed: 10/27/20 4:49:29 PM
APPL MSD SCII

EPA 300.0

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/22/20
Matrix:	WATER	Instrument:	Charlie
Blank ID:	201022A-BLK	Time Analyzed:	1017

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A-LCS	Lab Control Spike	1	10/22/20 1002
201022A-LCSD	Lab Control SpikeD	13	10/22/20 1324
201022A-BLK	Blank	2	10/22/20 1017
201022A-MS	Matrix Spike	26	10/26/20 2319
201022A-MSD	Matrix SpikeD	27	10/26/20 2334
BA20544	ERH1190	3	10/22/20 1032
BA20539	ERH1192	4	10/22/20 1112

Comments: Batch: #300W-201022A

EPA 300.0

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/26/20
Matrix:	WATER	Instrument:	Charlie
Blank ID:	201026A-BLK	Time Analyzed:	2023

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-LCS	Lab Control Spike	13	10/26/20 2009
201026A-BLK	Blank	14	10/26/20 2023
BA20539	ERH1192	23	10/26/20 2235
201026A-MS	Matrix Spike	24	10/26/20 2250
201026A-MSD	Matrix SpikeD	25	10/26/20 2304
201026A-LCSD	Lab Control SpikeD	28	10/26/20 2348

Comments: Batch: #300WD-201026A

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
EPA 300.0	CHLORIDE	0.20 U	1.0	0.20	0.08	mg/L	10/22/20	10/22/20	#300W-201022A-BA20539
EPA 300.0	NITRATE	0.18 U	0.5	0.18	0.04	mg/L	10/22/20	10/22/20	#300W-201022A-BA20539
EPA 300.0	SULFATE	0.20 U	1.0	0.20	0.09	mg/L	10/22/20	10/22/20	#300W-201022A-BA20539
EPA 300.0	CHLORIDE	0.23 J	1.0	0.20	0.08	mg/L	10/26/20	10/26/20	#300WD-201026A-BA20539

J = Estimated value.

Wetlab SC-Blank-REG MDLs
Printed: 10/28/20 5:11:52 PM

EPA 300.0

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/22/20
Matrix:	WATER	Instrument:	Charlie
LCS ID:	201022A-LCS	Time Analyzed:	1002

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A-LCS	Lab Control Spike	1	10/22/20 1002
201022A-LCSD	Lab Control SpikeD	13	10/22/20 1324
201022A-BLK	Blank	2	10/22/20 1017
201022A-MS	Matrix Spike	26	10/26/20 2319
201022A-MSD	Matrix SpikeD	27	10/26/20 2334
BA20544	ERH1190	3	10/22/20 1032
BA20539	ERH1192	4	10/22/20 1112

Comments: Batch: #300W-201022A

EPA 300.0

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/26/20
Matrix:	WATER	Instrument:	Charlie
LCS ID:	201026A-LCS	Time Analyzed:	2009

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-LCS	Lab Control Spike	13	10/26/20 2009
201026A-BLK	Blank	14	10/26/20 2023
BA20539	ERH1192	23	10/26/20 2235
201026A-MS	Matrix Spike	24	10/26/20 2250
201026A-MSD	Matrix SpikeD	25	10/26/20 2304
201026A-LCSD	Lab Control SpikeD	28	10/26/20 2348

Comments: Batch: #300WD-201026A

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	CHLORIDE	25.0	27.1	27.1	108	108	0.0	20	90-110	10/26/20	10/26/20	10/26/20	10/26/20	#300WD-201026A-BA2053
EPA 300.0	CHLORIDE	25.0	26.6	24.2	106	96.8	9.4	20	90-110	10/22/20	10/22/20	10/22/20	10/22/20	#300W-201022A-BA20539
EPA 300.0	NITRATE	22.1	23.5	21.3	106	96.4	9.8	20	90-110	10/22/20	10/22/20	10/22/20	10/22/20	#300W-201022A-BA20539
EPA 300.0	SULFATE	25.0	26.2	24.3	105	97.2	7.5	20	90-110	10/22/20	10/22/20	10/22/20	10/22/20	#300W-201022A-BA20539

Comments:

Matrix Spike Recoveries

WETLAB

APPL ID: **201026W-20539 MS - 257954**

Sample ID: BA20539

Client ID: ERH1192

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	Matrix Res mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
EPA 300.0	CHLORIDE	125	52.9	189	192	109	111 #	1.6	20	90-110	10/26/20	10/26/20	10/26/20	10/26/20	257954	BA20539
EPA 300.0	NITRATE	22.1	1.7	27.9	27.8	119 #	118 #	0.36	20	90-110	10/26/20	10/26/20	10/26/20	10/26/20	257952	BA20539
EPA 300.0	SULFATE	25.0	9.4	36.6	36.8	109	110	0.54	20	90-110	10/26/20	10/26/20	10/26/20	10/26/20	257952	BA20539

= Recovery is outside QC limits.

Comments:

EPA 353.2

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/22/20

Matrix: WATER Instrument: EVE

Blank ID: 201022A1-BLK Time Analyzed: 2021

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A1-BLK	Blank	12	10/22/20 2021
201022A1-LCS	Lab Control Spike	13	10/22/20 2023
201022A1-LCSD	Lab Control SpikeD	14	10/22/20 2025
BA20539	ERH1192	17	10/22/20 2032
201022A1-MS	Matrix Spike	18	10/22/20 2034
201022A1-MSD	Matrix SpikeD	19	10/22/20 2036
BA20544	ERH1190	22	10/22/20 2043

Comments: Batch: #353TO-201022A1

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/22/20

Matrix: WATER Instrument: Tiamo

Blank ID: 201022A-BLK Time Analyzed: 1822

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A-BLK	Blank	1	10/22/20 1822
201022A-LCS	Lab Control Spike	2	10/22/20 1824
201022A-LCSD	Lab Control SpikeD	3	10/22/20 1834
BA20539	ERH1192	4	10/22/20 1842
BA20544	ERH1190	5	10/22/20 1910

Comments: Batch: #232W-201022A

SM3500FeB

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/23/20

Matrix: WATER Instrument: Manual Spec

Blank ID: A201023-BLK Time Analyzed: 1842

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A201023-BLK	Blank	28	10/23/20 1842
A201023-LCS	Lab Control Spike	30	10/23/20 1843
A201023-LCSD	Lab Control SpikeD	32	10/23/20 1844
BA20539	ERH1192	34	10/23/20 1859
BA20544	ERH1190	35	10/23/20 1900
A201023-MS	Matrix Spike	36	10/23/20 1903
A201023-MSD	Matrix SpikeD	37	10/23/20 1904

Comments: Batch: #35FE-A201023

SW846 9060A

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/27/20
Matrix:	WATER	Instrument:	TICTOC
Blank ID:	201026A-BLK	Time Analyzed:	0518

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-BLK	Blank	28	10/27/20 0518
201026A-LCS	Lab Control Spike	29	10/27/20 0557
201026A-LCSD	Lab Control SpikeD	30	10/27/20 0638
BA20539	ERH1192	32	10/27/20 0757

Comments: Batch: #TOCW5-201026A

SW846 9060A

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/29/20
Matrix:	WATER	Instrument:	TICTOC
Blank ID:	201028A-BLK	Time Analyzed:	0129

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201028A-BLK	Blank	31	10/29/20 0129
201028A-LCS	Lab Control Spike	32	10/29/20 0208
201028A-LCSD	Lab Control SpikeD	33	10/29/20 0248
BA20544	ERH1190	34	10/29/20 0329

Comments: Batch: #TOCW5-201028A

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	BICARBONATE AS	3.8	2.0	1.70	0.85	mg/L	10/22/20	10/22/20	#232W-201022A-BA20539
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	10/22/20	10/22/20	#232W-201022A-BA20539
SM 2320B	TOTAL ALKALINITY	3.8	2.0	1.70	0.85	mg/L	10/22/20	10/22/20	#232W-201022A-BA20539
EPA 353.2	NITRATE-NITRITE A	0.090 U	0.10	0.090	0.028	mg/L	10/22/20	10/22/20	#353TO-201022A1-BA20539
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	10/27/20	10/27/20	#TOCW5-201026A-BA20539
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	10/23/20	10/23/20	#35FE-A201023-BA20544
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	10/29/20	10/29/20	#TOCW5-201028A-BA20544

EPA 353.2

Form 4

LCS Summary

Lab Name: APPL, Inc. SDG No: 93818

Case No: 93818 Date Analyzed: 10/22/20

Matrix: WATER Instrument: EVE

LCS ID: 201022A1-LCS Time Analyzed: 2023

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A1-BLK	Blank	12	10/22/20 2021
201022A1-LCS	Lab Control Spike	13	10/22/20 2023
201022A1-LCSD	Lab Control SpikeD	14	10/22/20 2025
BA20539	ERH1192	17	10/22/20 2032
201022A1-MS	Matrix Spike	18	10/22/20 2034
201022A1-MSD	Matrix SpikeD	19	10/22/20 2036
BA20544	ERH1190	22	10/22/20 2043

Comments: Batch: #353TO-201022A1

SM 2320B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/22/20
Matrix:	WATER	Instrument:	Tiamo
LCS ID:	201022A-LCS	Time Analyzed:	1824

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201022A-BLK	Blank	1	10/22/20 1822
201022A-LCS	Lab Control Spike	2	10/22/20 1824
201022A-LCSD	Lab Control SpikeD	3	10/22/20 1834
BA20539	ERH1192	4	10/22/20 1842
BA20544	ERH1190	5	10/22/20 1910

Comments: Batch: #232W-201022A

SM3500FeB

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/23/20
Matrix:	WATER	Instrument:	Manual Spec
LCS ID:	A201023-LCS	Time Analyzed:	1843

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A201023-BLK	Blank	28	10/23/20 1842
A201023-LCS	Lab Control Spike	30	10/23/20 1843
A201023-LCSD	Lab Control SpikeD	32	10/23/20 1844
BA20539	ERH1192	34	10/23/20 1859
BA20544	ERH1190	35	10/23/20 1900
A201023-MS	Matrix Spike	36	10/23/20 1903
A201023-MSD	Matrix SpikeD	37	10/23/20 1904

Comments: Batch: #35FE-A201023

SW846 9060A

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/27/20
Matrix:	WATER	Instrument:	TICTOC
LCS ID:	201026A-LCS	Time Analyzed:	0557

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201026A-BLK	Blank	28	10/27/20 0518
201026A-LCS	Lab Control Spike	29	10/27/20 0557
201026A-LCSD	Lab Control SpikeD	30	10/27/20 0638
BA20539	ERH1192	32	10/27/20 0757

Comments: Batch: #TOCW5-201026A

SW846 9060A

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	93818
Case No:	93818	Date Analyzed:	10/29/20
Matrix:	WATER	Instrument:	TICTOC
LCS ID:	201028A-LCS	Time Analyzed:	0208

APPL ID.	Client Sample No.	File ID.	Date Analyzed
201028A-BLK	Blank	31	10/29/20 0129
201028A-LCS	Lab Control Spike	32	10/29/20 0208
201028A-LCSD	Lab Control SpikeD	33	10/29/20 0248
BA20544	ERH1190	34	10/29/20 0329

Comments: Batch: #TOCW5-201028A

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 353.2	NITRATE-NITRITE AS N	3.00	3.00	3.00	100	100	0.0	20	90-110	10/22/20	10/22/20	10/22/20	10/22/20	#353TO-201022A1-BA205
SM 2320B	BICARBONATE AS CACO3	250	236	228	94.4	91.2	3.4	20	90-110	10/22/20	10/22/20	10/22/20	10/22/20	#232W-201022A-BA20539
SM 2320B	TOTAL ALKALINITY AS CA	250	260	251	104	100	3.5	20	90-110	10/22/20	10/22/20	10/22/20	10/22/20	#232W-201022A-BA20539
SW846 90	TOTAL ORGANIC CARBO	5.00	4.70	4.56	94.0	91.2	3.0	20	80-120	10/27/20	10/27/20	10/27/20	10/27/20	#TOCW5-201026A-BA205

Comments:

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
SM3500Fe	FERROUS IRON	3.00	3.01	3.07	100	102	2.0	20	80-120	10/23/20	10/23/20	10/23/20	10/23/20	#35FE-A201023-BA20544
SW846 90	TOTAL ORGANIC CARBO	5.00	4.71	4.45	94.2	89.0	5.7	20	80-120	10/29/20	10/29/20	10/29/20	10/29/20	#TOCW5-201028A-BA205

Comments:

Matrix Spike Recoveries

WETLAB

APPL ID: **201022W-20539 MS - 257890**

Sample ID: BA20539

Client ID: ERH1192

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	Matrix Res mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
EPA 353.2	NITRATE-NITRITE AS	3.23	0.37	3.62	3.48	101	96.3	3.9	20	90-110	10/22/20	10/22/20	10/22/20	10/22/20	257890	BA20539

Comments:

Matrix Spike Recoveries

WETLAB

APPL ID: **201023W-20544 MS - 257802**

Sample ID: BA20544

Client ID: ERH1190

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	Matrix Res mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
SM3500Fe	FERROUS IRON	3.00	0.12	3.20	3.21	103	103	0.31	20	80-120	10/23/20	10/23/20	10/23/20	10/23/20	257802	BA20544

Comments:

ORGANICS

Calibration Data

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/15/20
Matrix: Water Instrument: HERBIE
Initials: SS

			1020002 D	1020003.D	1020004.D	1020005.D	1020006.D	1020007 D									
		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
1	TM	EDB	30800	30975	28708	25514	27547	25135					28113	9.0	TM		
2	TM	1,2,3-TCP	8675	8000	7366	6451	7169	6318					7330	12	TM		
3	S	1,3-DIBROMOPROPANE(S)	31825	32355	30290	25137	27974	24726					28718	12	S		
4	TM	DBCP	111250	98985	95384	83472	101655	88584					96555	10	TM		
5		Signal #2											0	0			
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1.22828

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/15/20
Matrix: Water Instrument: HERBIE
Initials: SS

			1020002.D	1020003.D	1020004.D	1020005.D	1020006.D	1020007.D									
		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
36	TM	EDB #2	126675	124510	123398	107931	117947	110216					118446	6.6	TM		
37	TM	1,2,3-TCP #2	21000	24280	24102	20365	23410	20511					22278	8.3	TM		
38	S	1,3-DIBROMOPROPANE(S) #2	92200	95515	89600	76565	86857	78013					86458	8.9	S		
39	TM	DBCP #2	443800	412830	403830	359925	429139	386364					405981	7.4	TM		
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0.891082

Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 11:43 am
Operator : SS
Sample : 8011-1 10/15/20
Misc : water
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:44 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.981	10.997	1273	3688	0.022	0.021
Spiked Amount 0.350			Recovery	=	6.29%	6.00%
Target Compounds						
1) TM EDB	5.725	7.174	1232	5067	0.022	0.021
2) TM 1,2,3-TCP	9.208	10.407	347	840	0.024	0.019
4) TM DBCP	13.308	14.061	4450	17752	0.023	0.022

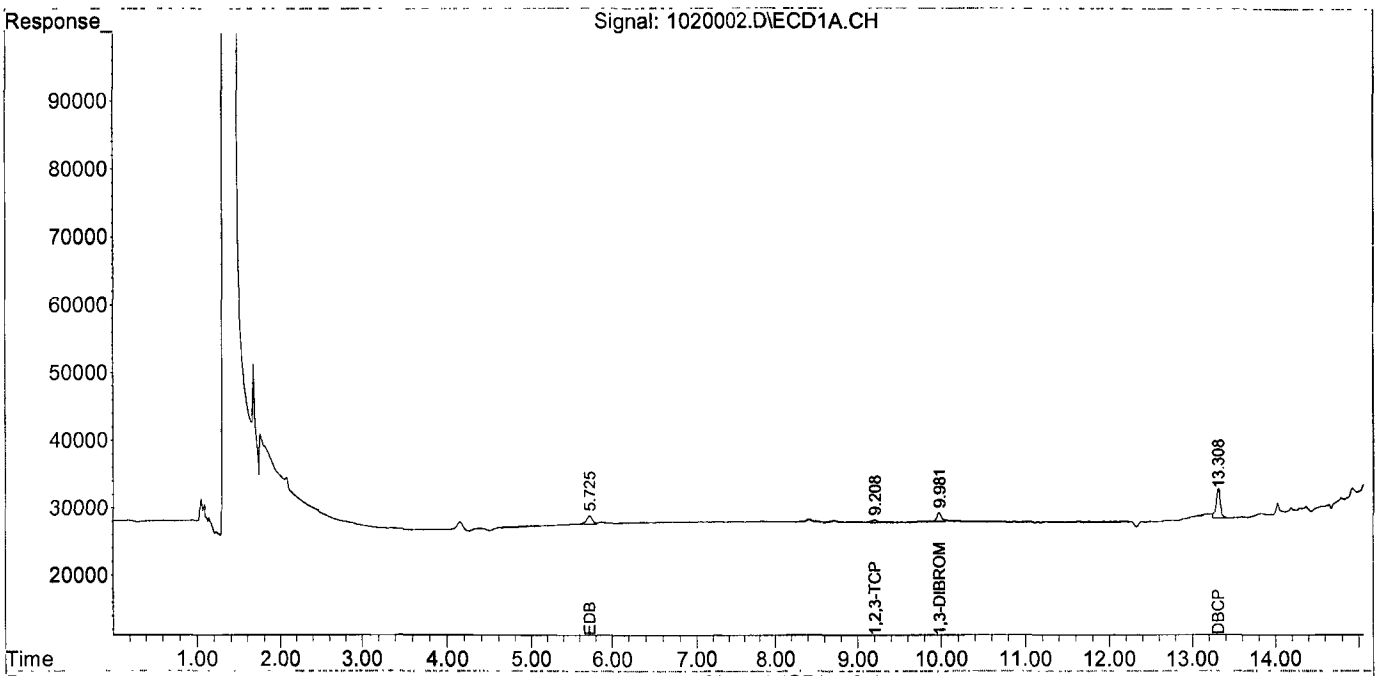
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

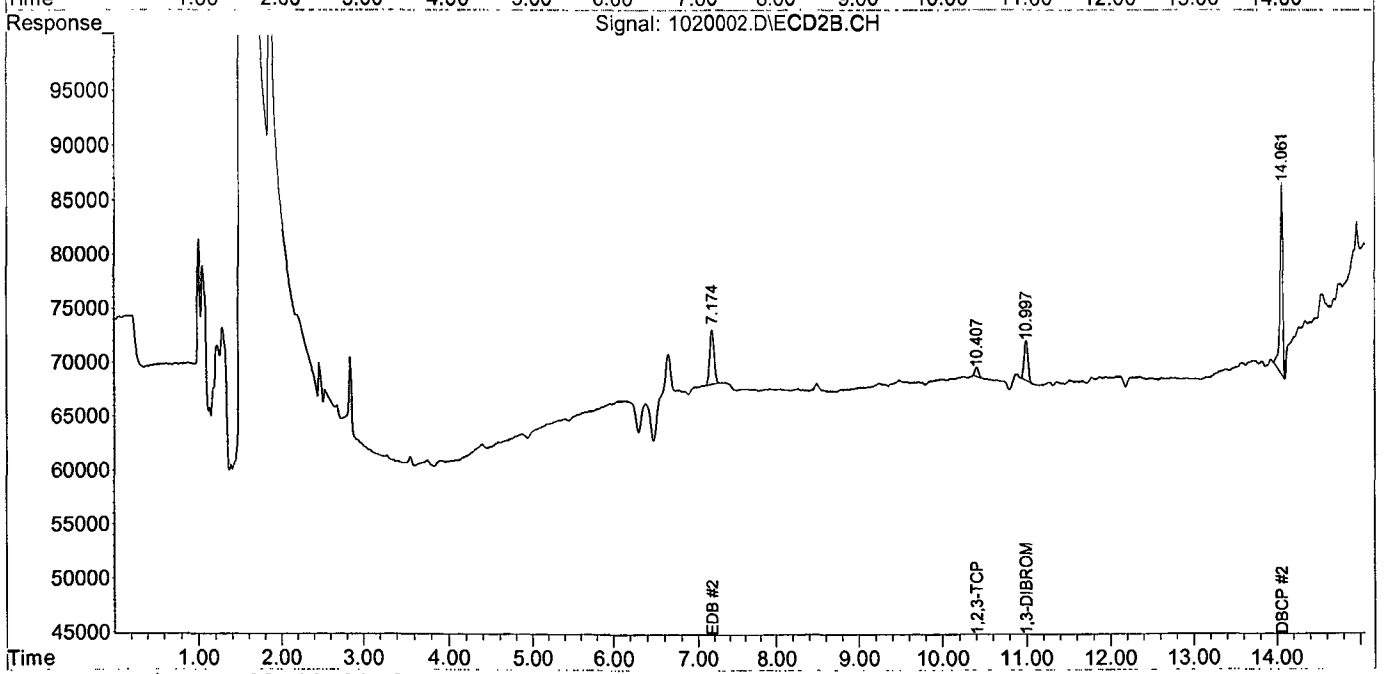
Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020002.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 11:43 am
Operator : SS
Sample : 8011-1 10/15/20
Misc : water
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:44 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 12:03 pm
Operator : SS
Sample : 8011-2 10/15/20
Misc : water
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:48 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.979	10.999	6471	19103	0.113	0.110
Spiked Amount 0.350			Recovery =		32.29%	31.43%
Target Compounds						
1) TM EDB	5.729	7.175	6195	24902	0.110	0.105
2) TM 1,2,3-TCP	9.213	10.409	1600	4856	0.109	0.109
4) TM DBCP	13.309	14.062	19797	82566	0.103	0.102

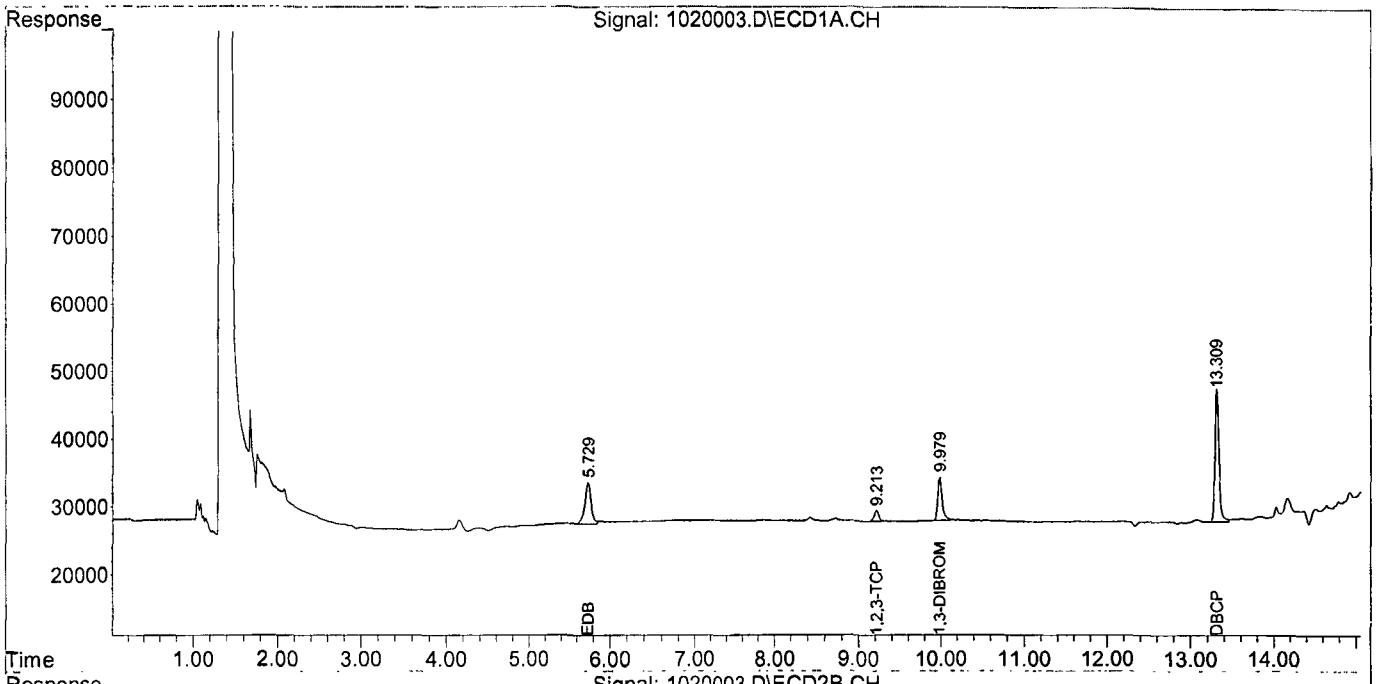
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

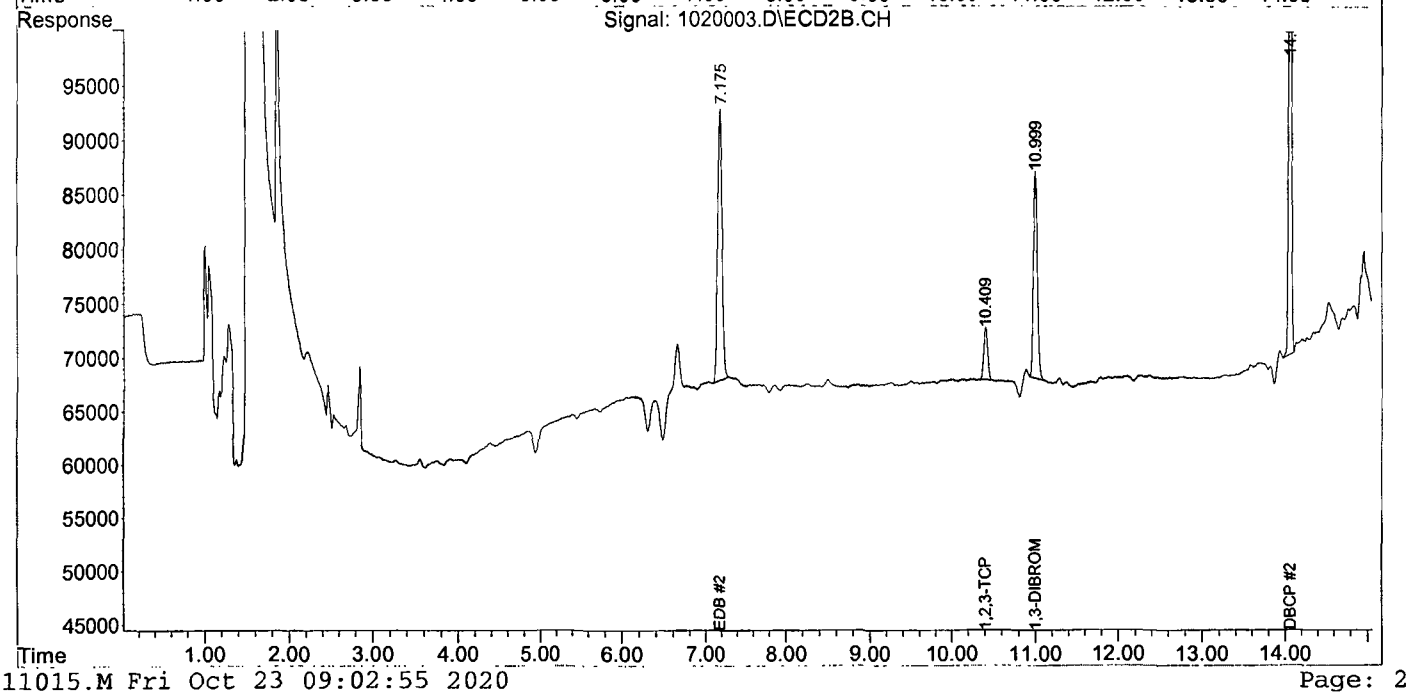
Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 12:03 pm
Operator : SS
Sample : 8011-2 10/15/20
Misc : water
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:48 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





Data Path : G:\HERBIE\DATA\201022\
Data File : 1020004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 12:24 pm
Operator : SS
Sample : 8011-3 10/15/20
Misc : water
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:51 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.979	10.998	15145	44800	0.264	0.259
Spiked Amount 0.350			Recovery =		75.43%	74.00%
Target Compounds						
1) TM EDB	5.729	7.171	14354	61699	0.255	0.260
2) TM 1,2,3-TCP	9.212	10.408	3683	12051	0.251	0.270
4) TM DBCP	13.309	14.061	47692	201915	0.247	0.249

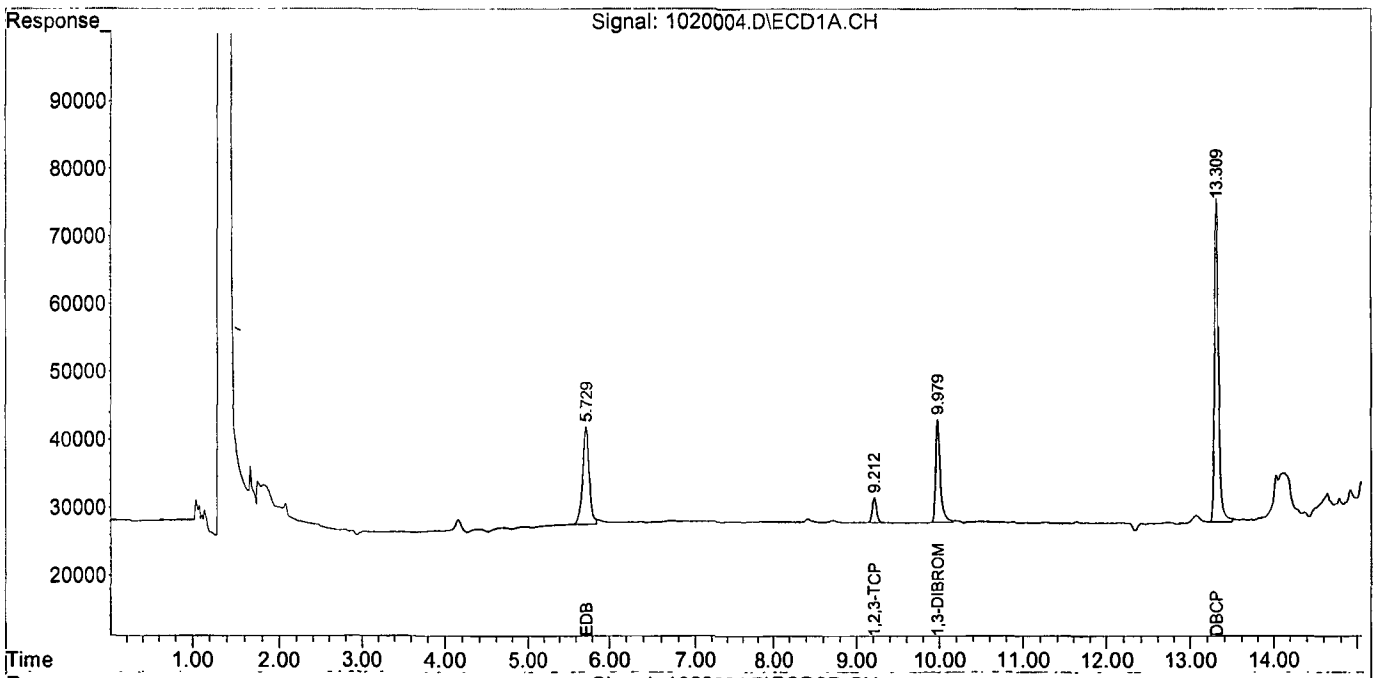
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

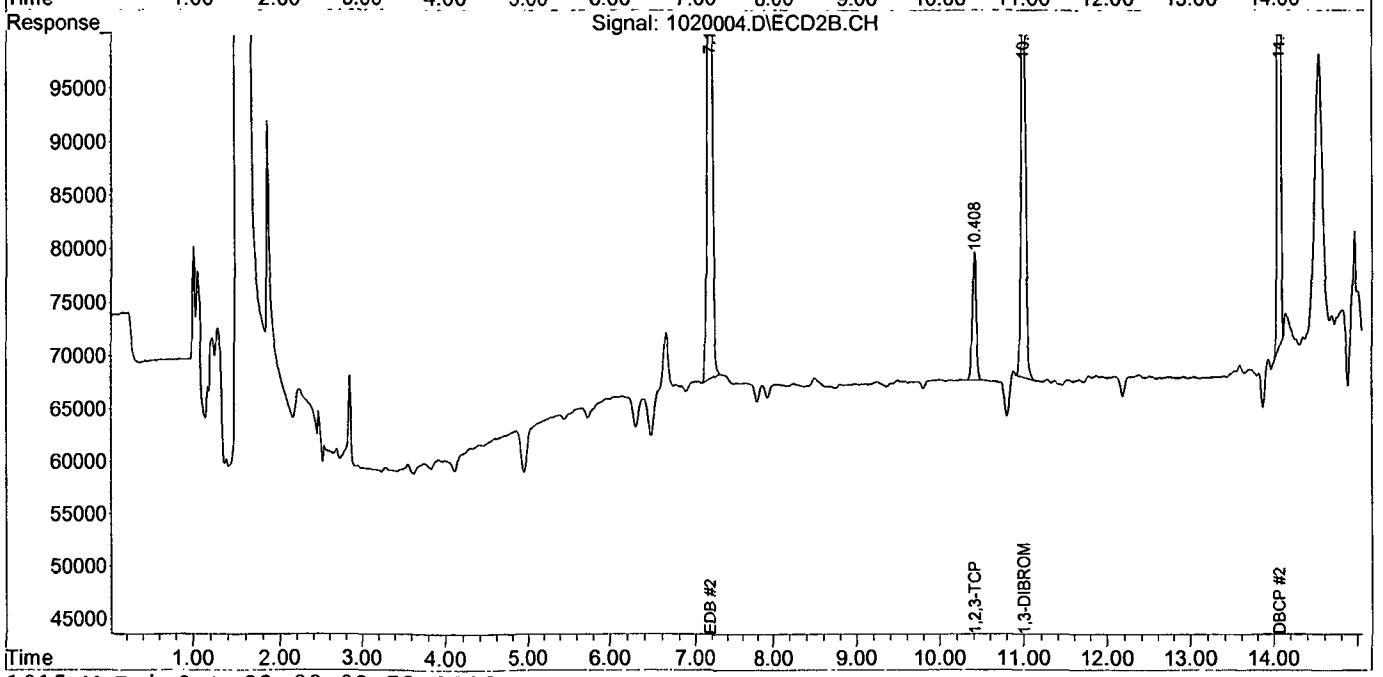
Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 12:24 pm
Operator : SS
Sample : 8011-3 10/15/20
Misc : water
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:51 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





Data Path : G:\HERBIE\DATA\201022\
Data File : 1020005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 12:44 pm
Operator : SS
Sample : 8011-4 10/15/20
Misc : water
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:54 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.978	10.997	25137	76565	0.438	0.443
Spiked Amount 0.350			Recovery =		125.14%	126.57%
Target Compounds						
1) TM EDB	5.728	7.171	25514	107931	0.454	0.456
2) TM 1,2,3-TCP	9.211	10.411	6451	20365	0.440	0.457
4) TM DBCP	13.311	14.061	83472	359925	0.432	0.443

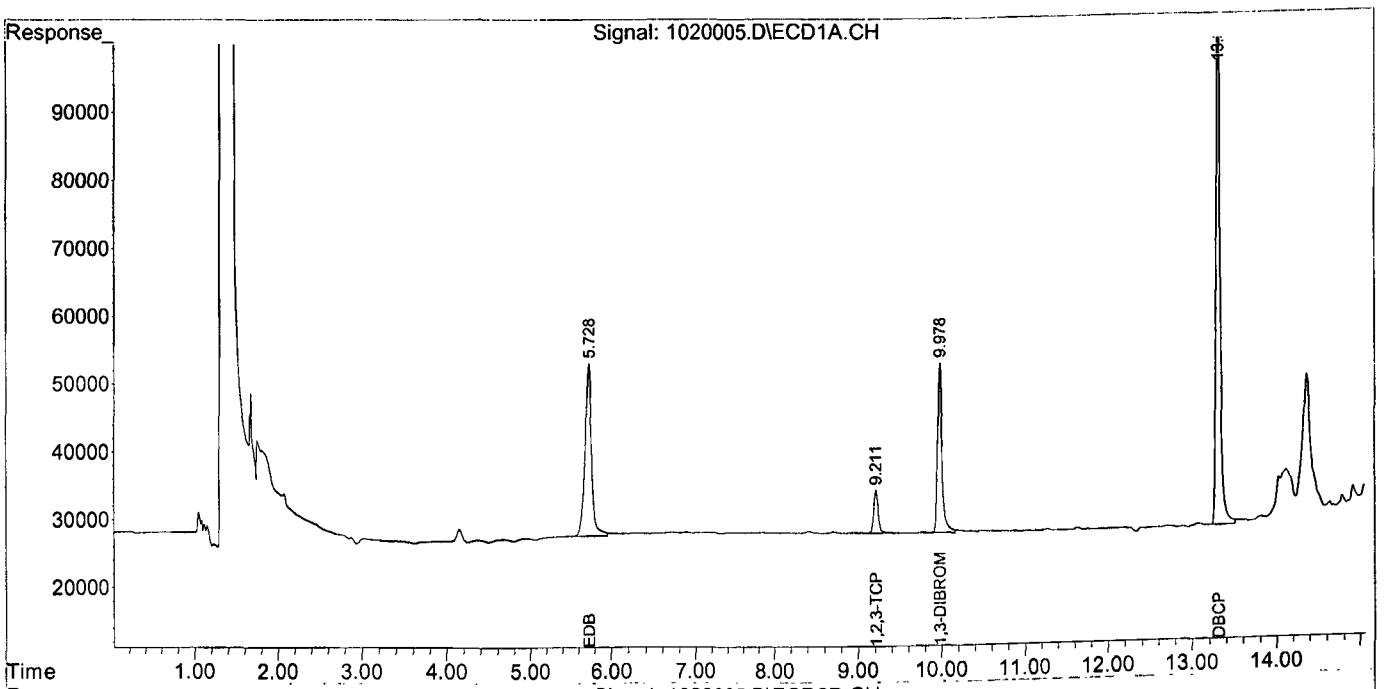
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

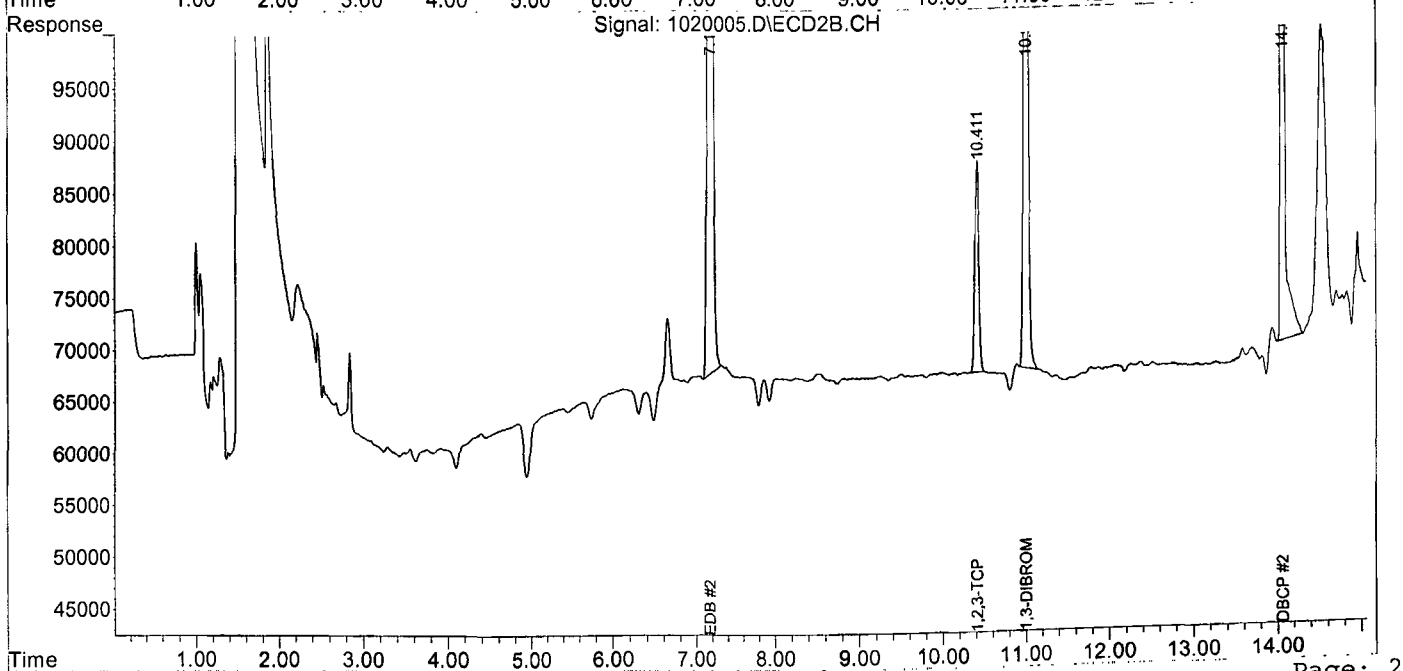
Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 12:44 pm
Operator : SS
Sample : 8011-4 10/15/20
Misc : water
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:54 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 1:05 pm
Operator : SS
Sample : 8011-5 10/15/20
Misc : water
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:57 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.978	10.997	41961	130285	0.731	0.753
Spiked Amount 0.350			Recovery =		208.86%	215.14%
Target Compounds						
1) TM EDB	5.728	7.174	41320	176920	0.735	0.747
2) TM 1,2,3-TCP	9.211	10.411	10753	35115	0.734	0.788
4) TM DBCP	13.308	14.061	152482	643709	0.790	0.793

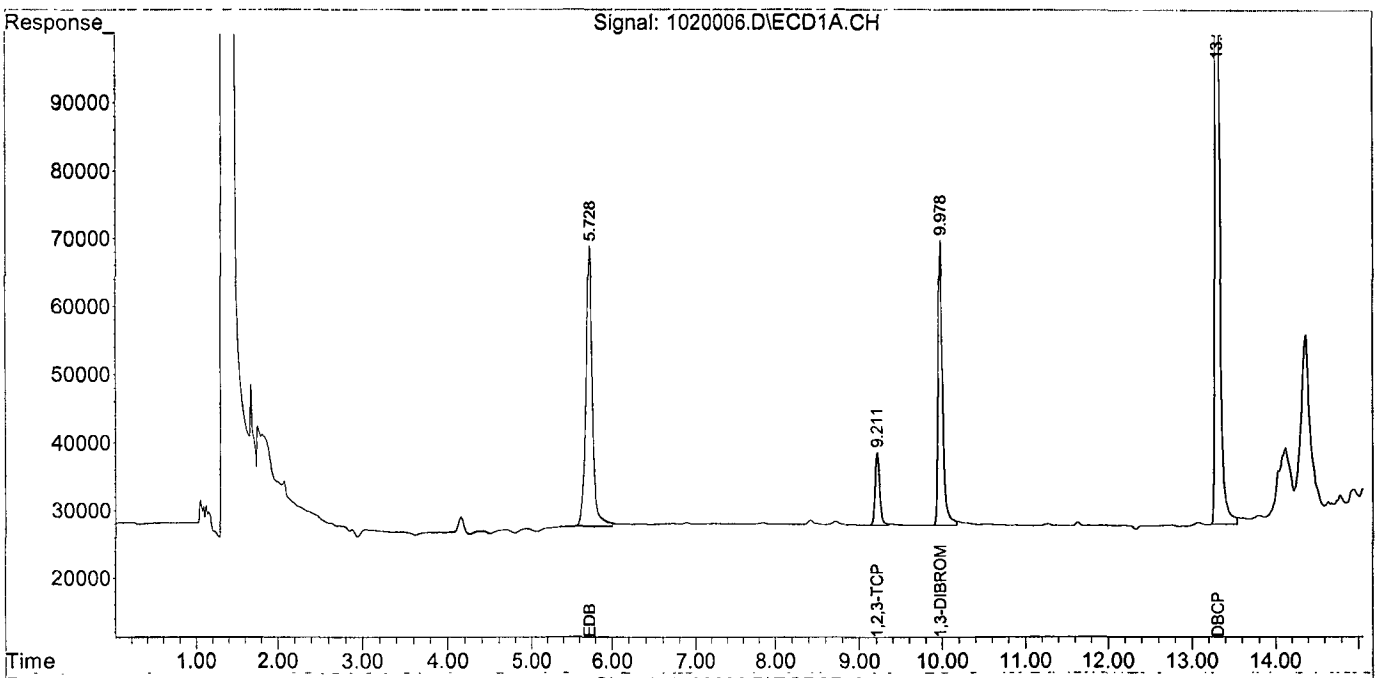
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

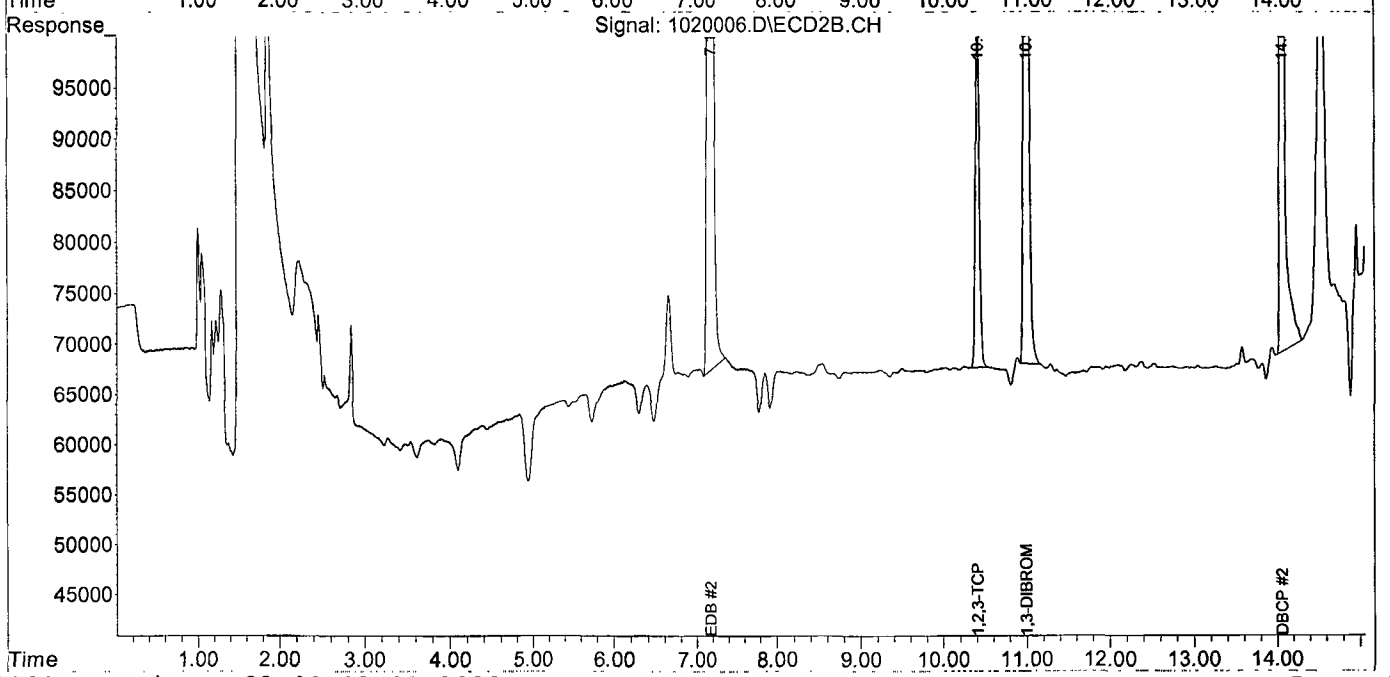
Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 1:05 pm
Operator : SS
Sample : 8011-5 10/15/20
Misc : water
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:45:57 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 1:26 pm
Operator : SS
Sample : 8011-6 10/15/20
Misc : water
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:46:00 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
3) S	1,3-DIBRO...	9.978	10.997	49451	156026	0.861	0.902
	Spiked Amount 0.350			Recovery =		246.00%	257.71%
	Target Compounds						
1) TM	EDB	5.728	7.174	50270	220431	0.894	0.931
2) TM	1,2,3-TCP	9.211	10.410	12635	41022	0.862	0.921
4) TM	DBCP	13.308	14.064	177168	772727	0.917	0.952

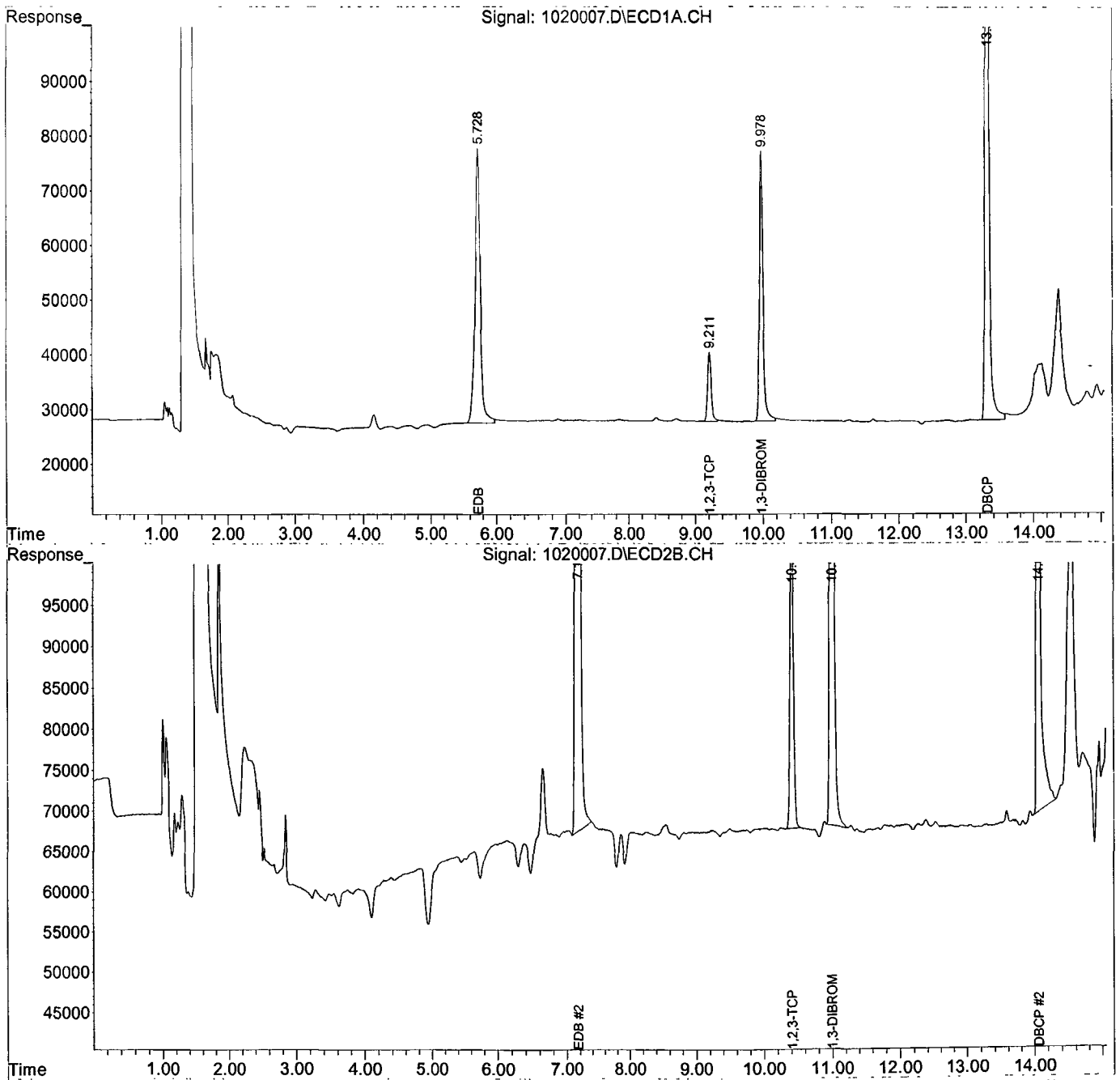
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 1:26 pm
Operator : SS
Sample : 8011-6 10/15/20
Misc : water
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:46:00 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/22/20
Instrument: HERBIE
Initial Cal. Date: 10/15/20
Data File: 1020008.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	EDB	28113	27430	2.4	TM	
2	TM	1,2,3-TCP	7330	6590	10	TM	
3	TM	DBCP	96555	83965	13	TM	
4							
5							
6							
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40							
		Average			8.5		

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/22/20
Instrument: HERBIE
Cal. Date: 10/15/20
Data File: 1020008.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	EDB	118446	112330	5.2	TM	
42	TM	1,2,3-TCP	22278	21135	5.1	TM	
43	TM	DBCP	405981	337780	17	TM	
44							
45							
46							
47							
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80							
		Average			9.1		

Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 1:46 pm
Operator : SS
Sample : 8011SS 10/15/20
Misc : water
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:49:59 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount 0.350			Recovery =		0.00%	0.00%
Target Compounds						
1) TM EDB	5.729	7.172	5486	22466	0.098	0.095
2) TM 1,2,3-TCP	9.216	10.412	1318	4227	0.090	0.095
4) TM DBCP	13.313	14.062	16793	67556	0.087	0.083

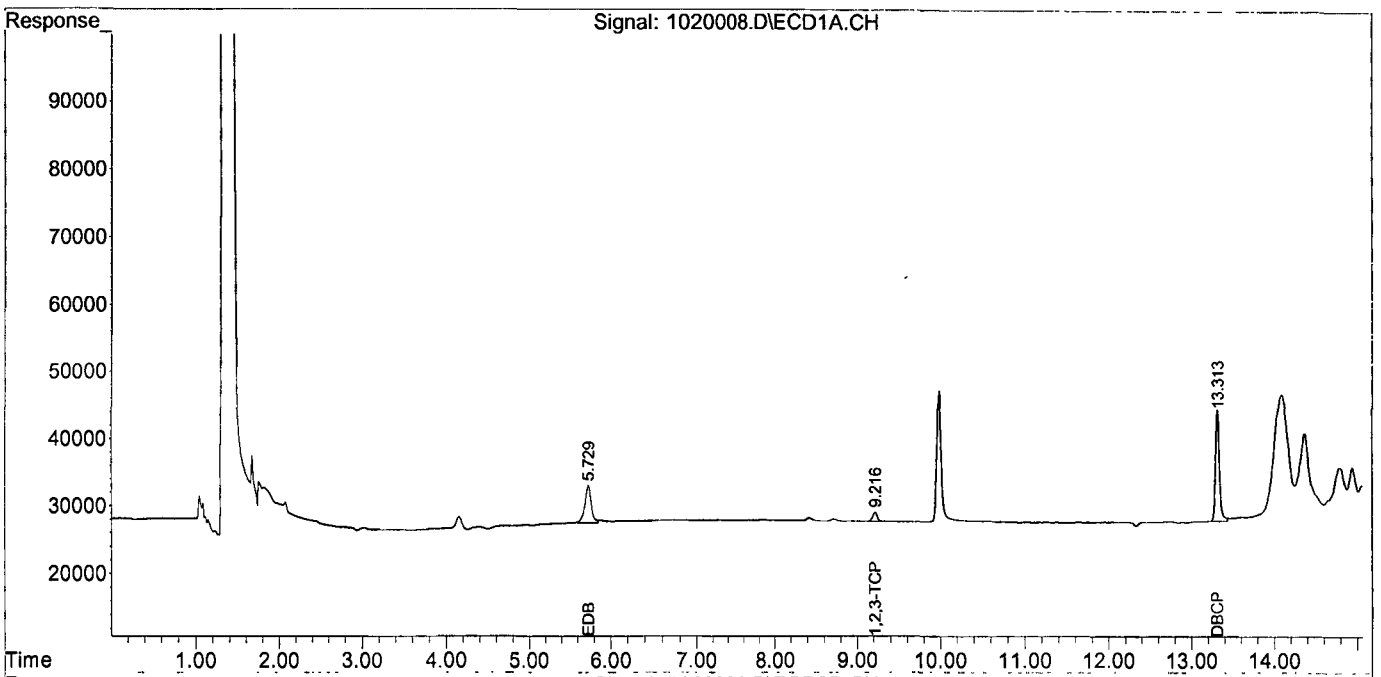
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

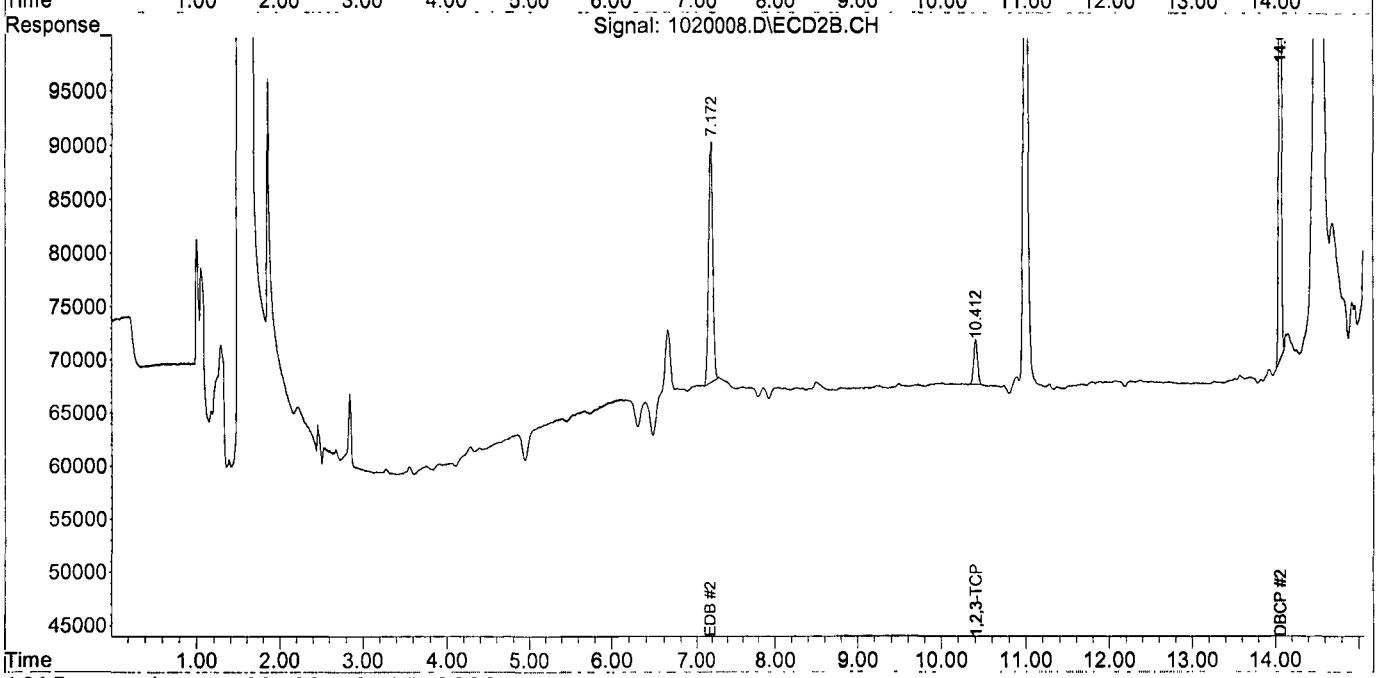
Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Oct 2020 1:46 pm
Operator : SS
Sample : 8011SS 10/15/20
Misc : water
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:49:59 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/23/20
Instrument: HERBIE
Initial Cal. Date: 10/15/20
Data File: 1020040.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	EDB	28113	28706	2.1	TM	
2	TM	1,2,3-TCP	7330	7380	0.69	TM	
3	S	1,3-DIBROMOPROPANE(S)	28718	30502	6.2	S	
4	TM	DBCP	96555	100658	4.2	TM	
5							
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39							
40							
		Average			3.3		

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/23/20
Instrument: HERBIE
Cal. Date: 10/15/20
Data File: 1020040.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	EDB	118446	121120	2.3	TM	
42	TM	1,2,3-TCP	22278	23528	5.6	TM	
43	S	1,3-DIBROMOPROPANE(S)	86458	88630	2.5	S	
44	TM	DBCP	405981	380694	6.2	TM	
45							
46							
47							
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80							
		Average			4.2		

Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 12:46 am
Operator : SS
Sample : 8011-3 10/15/20
Misc : water
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:47:39 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

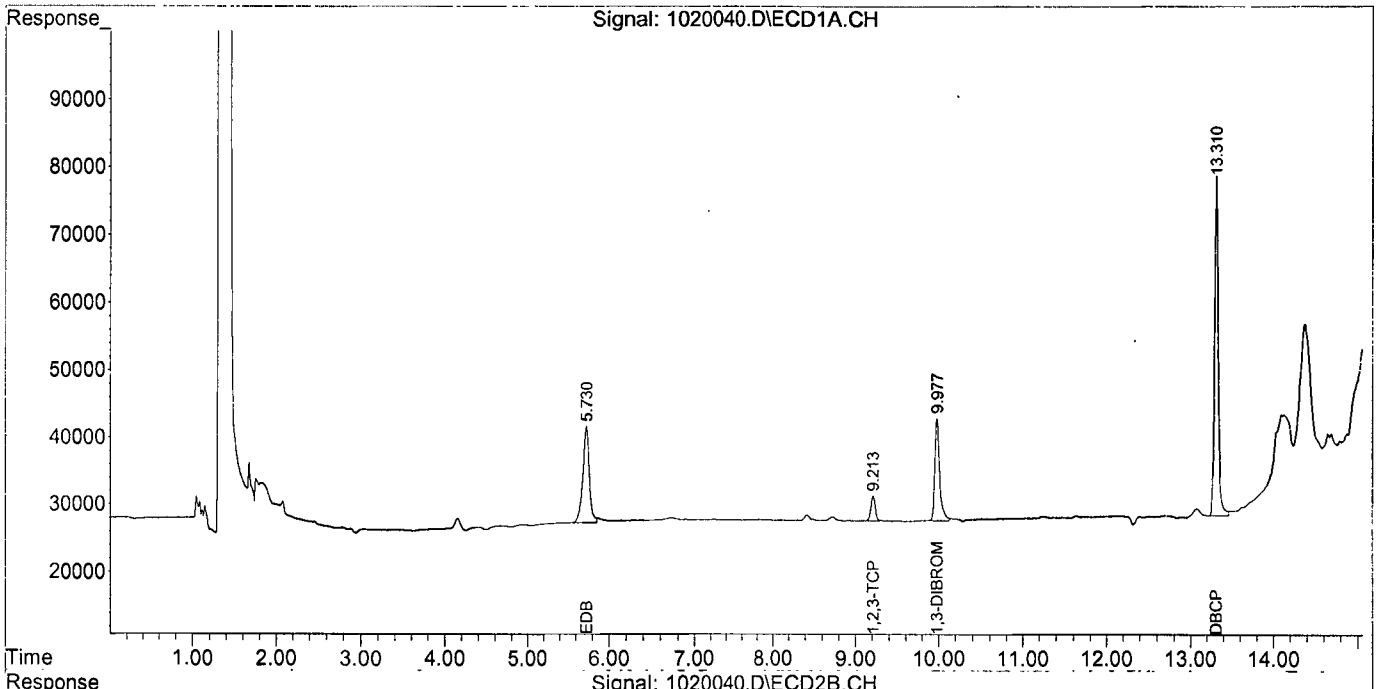
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.977	10.999	15251	44315	0.266	0.256
Spiked Amount 0.350			Recovery =		76.00%	73.14%
Target Compounds						
1) TM EDB	5.730	7.169	14353	60560	0.255	0.256
2) TM 1,2,3-TCP	9.213	10.409	3690	11764	0.252	0.264
4) TM DBCP	13.310	14.063	50329	190347	0.261	0.234

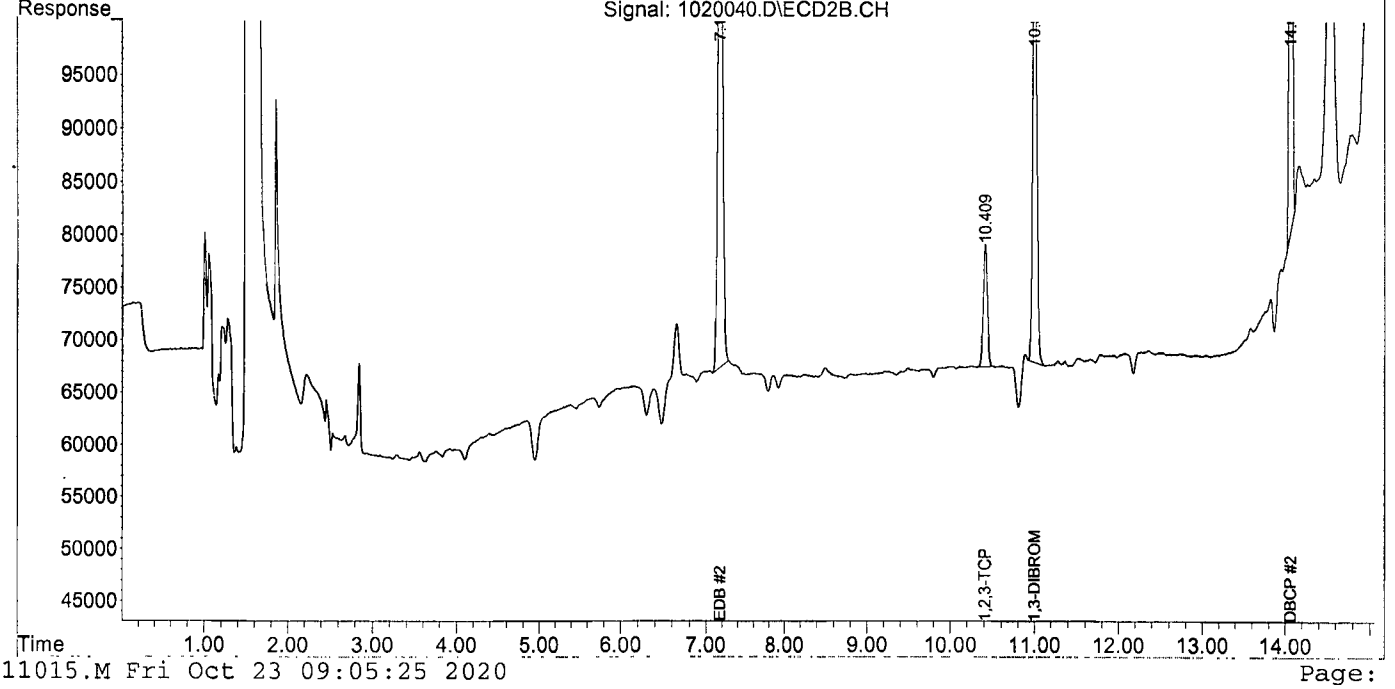
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 12:46 am
Operator : SS
Sample : 8011-3 10/15/20
Misc : water
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:47:39 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/23/20
Instrument: HERBIE
Initial Cal. Date: 10/15/20
Data File: 1020053.D

		Compound	MEAN	CCRF	%D		%Drift
1	TM	EDB	28113	28804	2.5	TM	
2	TM	1,2,3-TCP	7330	7726	5.4	TM	
3	S	1,3-DIBROMOPROPANE(S)	28718	31678	10	S	
4	TM	DBCP	96555	104098	7.8	TM	
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39							
40							
		Average			6.4		

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/23/20
Instrument: HERBIE
Cal. Date: 10/15/20
Data File: 1020053.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	EDB	118446	124522	5.1	TM	
42	TM	1,2,3-TCP	22278	25204	13	TM	
43	S	1,3-DIBROMOPROPANE(S)	86458	95074	10	S	
44	TM	DBCP	405981	432840	6.6	TM	
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80							
		Average			8.7		

Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 5:10 am
Operator : SS
Sample : 8011-3 10/15/20
Misc : water
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:48:18 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.978	10.997	15839	47537	0.276	0.275
Spiked Amount 0.350			Recovery	=	78.86%	78.57%
Target Compounds						
1) TM EDB	5.728	7.174	14402	62261	0.256	0.263
2) TM 1,2,3-TCP	9.214	10.410	3863	12602	0.264	0.283
4) TM DBCP	13.311	14.060	52049	216420	0.270	0.267

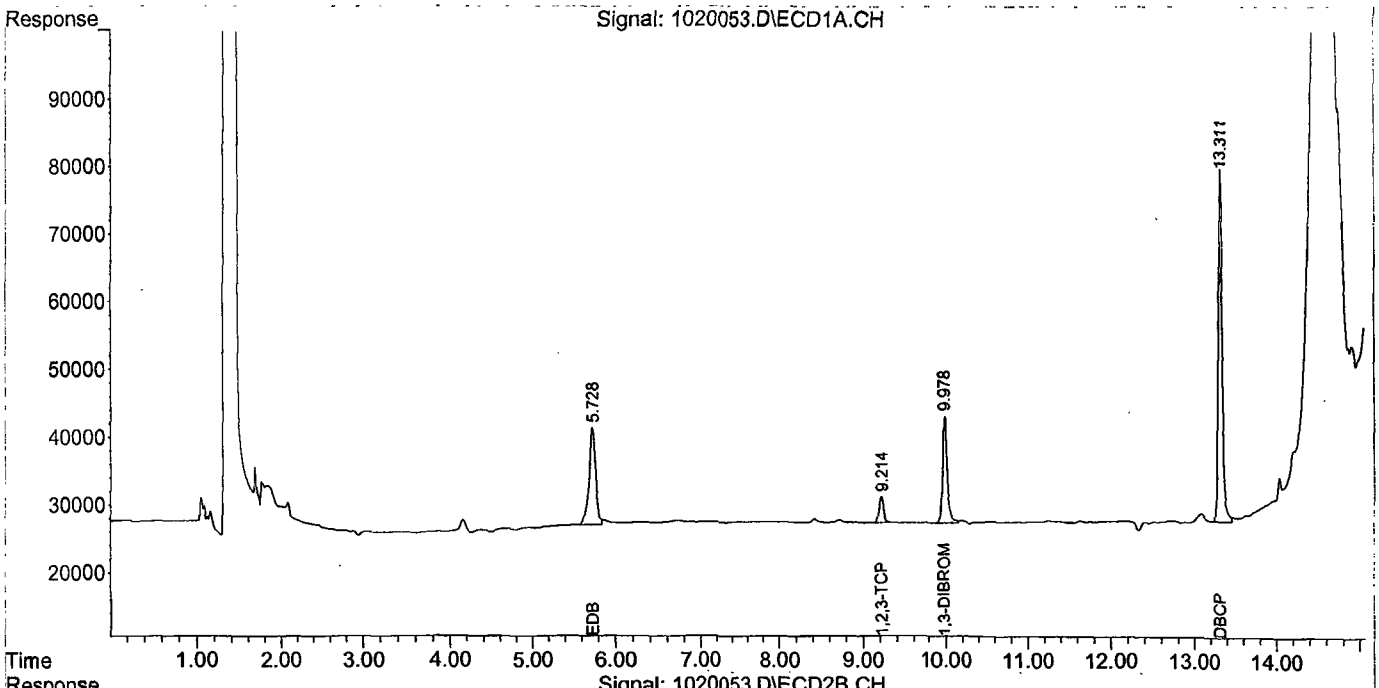
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

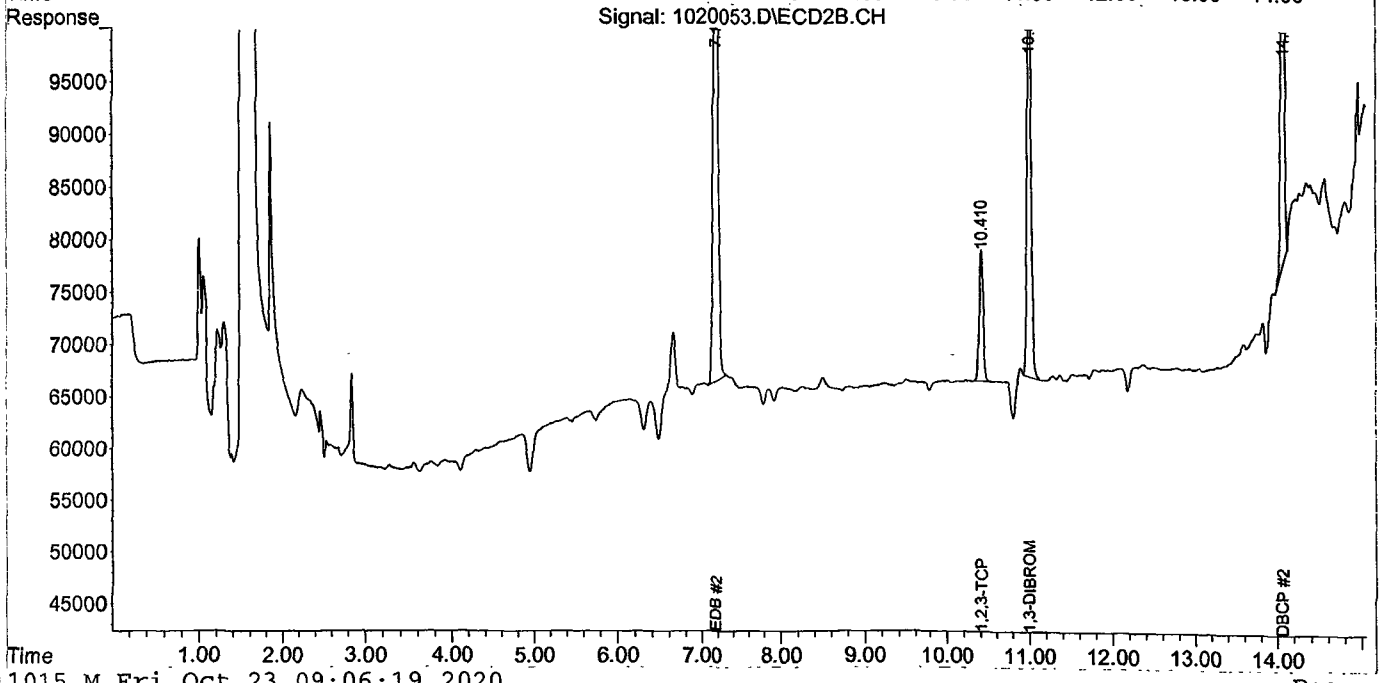
Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 5:10 am
Operator : SS
Sample : 8011-3 10/15/20
Misc : water
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:48:18 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





ORGANICS

Raw Data

Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 4:10 am
Operator : SS
Sample : BA20540W04 2/35.58
Misc : water
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 09:01:16 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
3) S	1,3-DIBRO...	9.977	11.000	20853	63786	0.363	0.369
	Spiked Amount 0.350			Recovery	=	103.71%	105.43%
	Target Compounds						
1) TM	EDB	0.000	0.000	0	0	N.D. d	N.D. d
2) TM	1,2,3-TCP	0.000	0.000	0	0	N.D. d	N.D. d
4) TM	DBCP	0.000	0.000	0	0	N.D. d	N.D. d

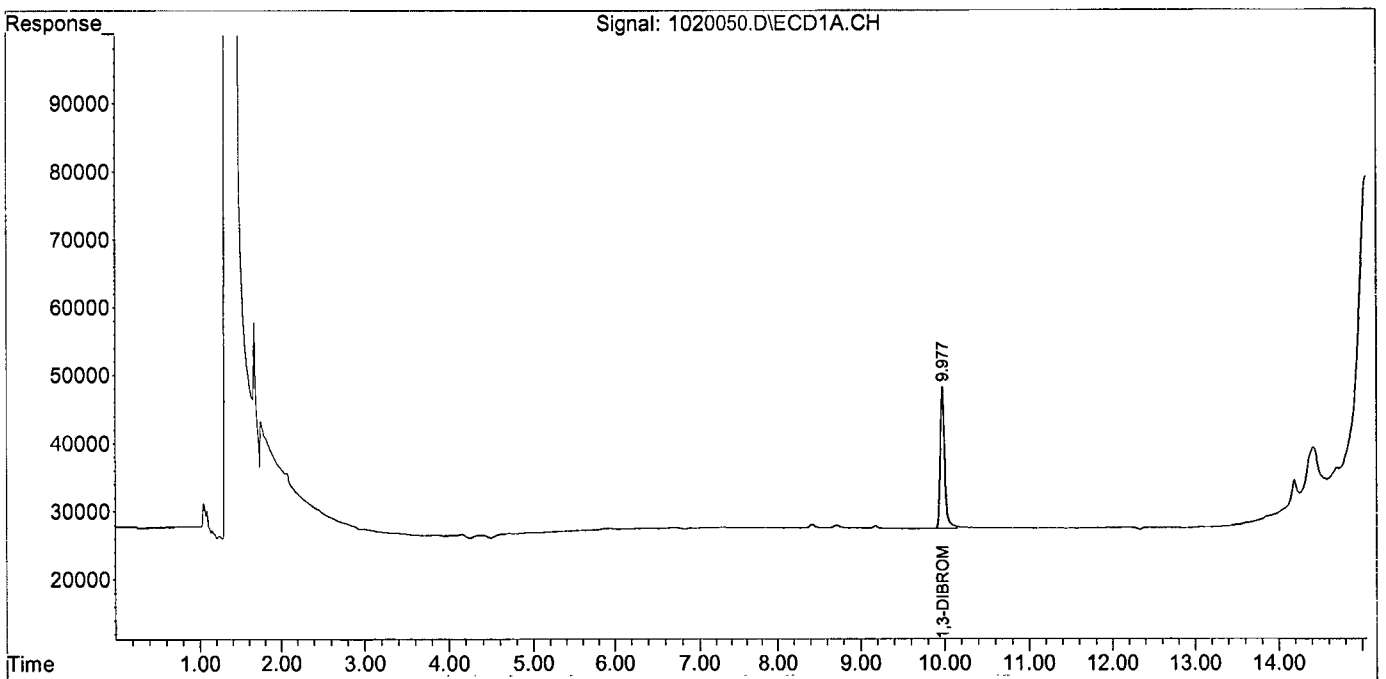
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

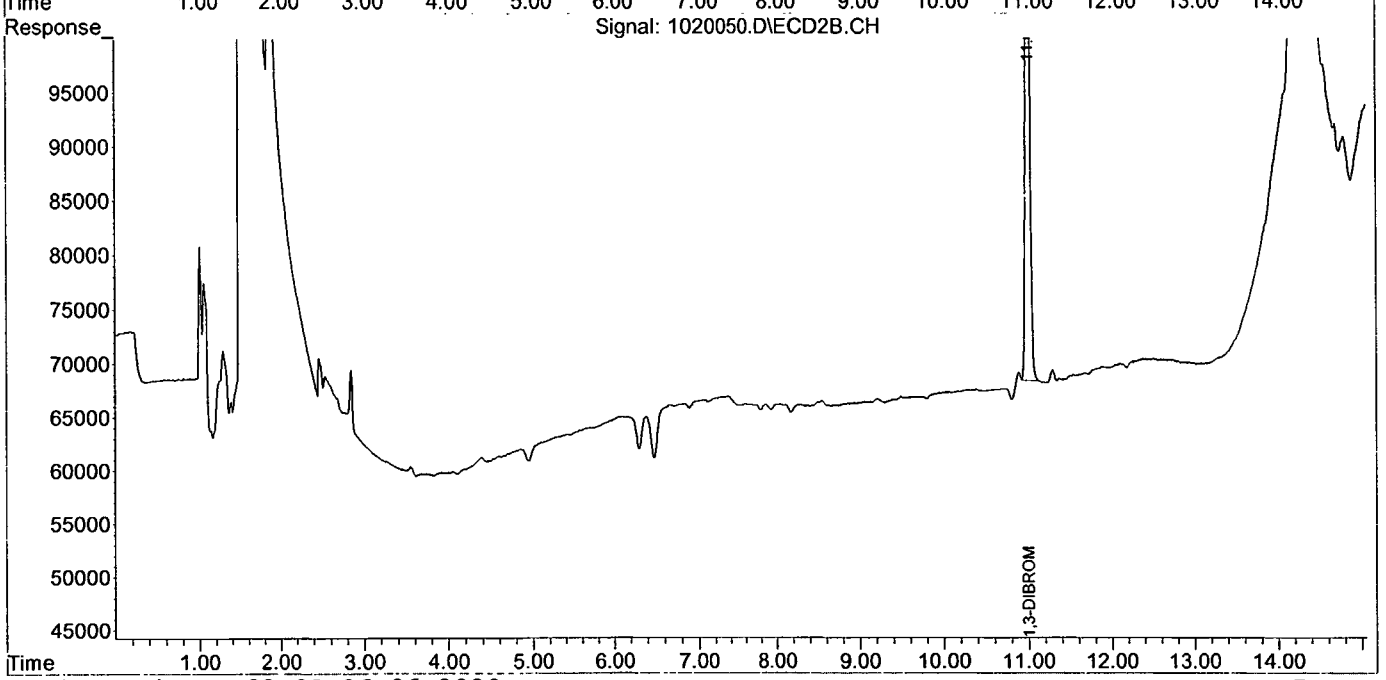
Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 4:10 am
Operator : SS
Sample : BA20540W04 2/35.58
Misc : water
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 09:01:16 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 4:30 am
Operator : SS
Sample : BA20541W04 2/35.46
Misc : water
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 09:01:29 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

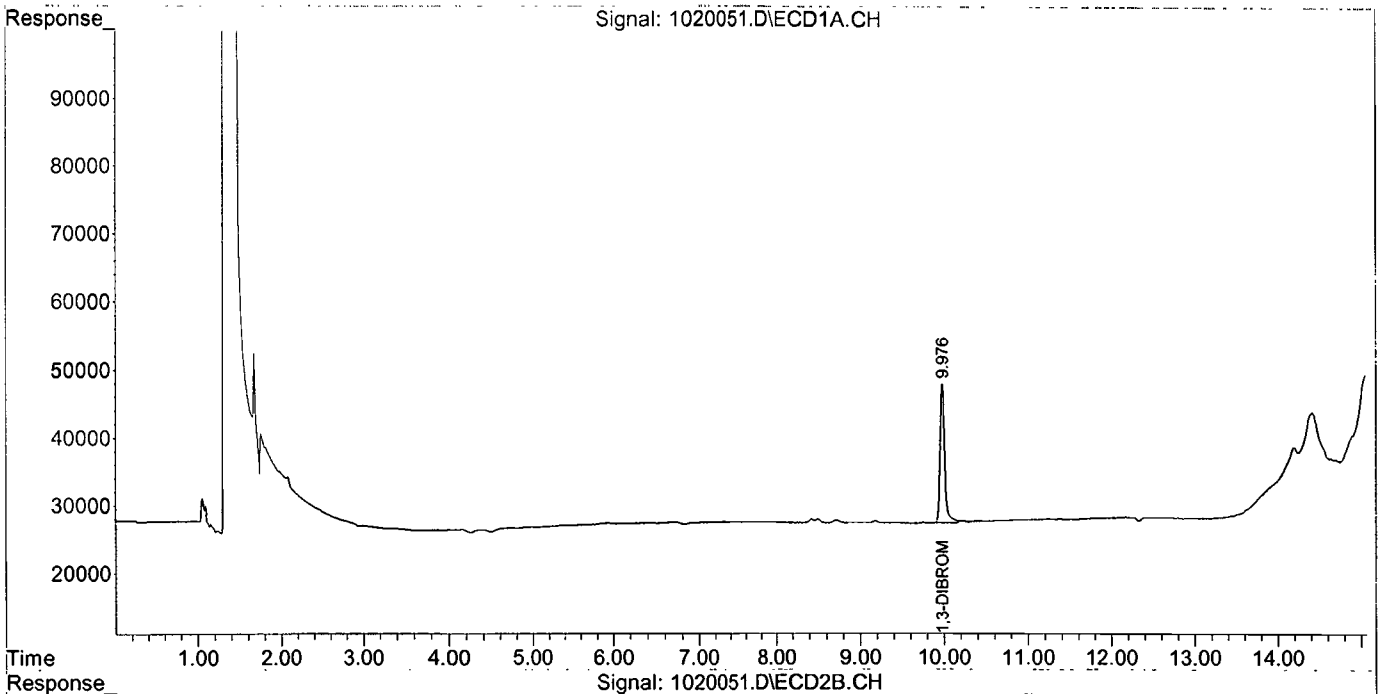
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.976	10.999	20699	64850	0.360	0.375
Spiked Amount 0.350			Recovery =		102.86%	107.14%
Target Compounds						
1) TM EDB	0.000	0.000	0	0	N.D. d	N.D. d
2) TM 1,2,3-TCP	0.000	0.000	0	0	N.D. d	N.D. d
4) TM DBCP	0.000	0.000	0	0	N.D. d	N.D. d

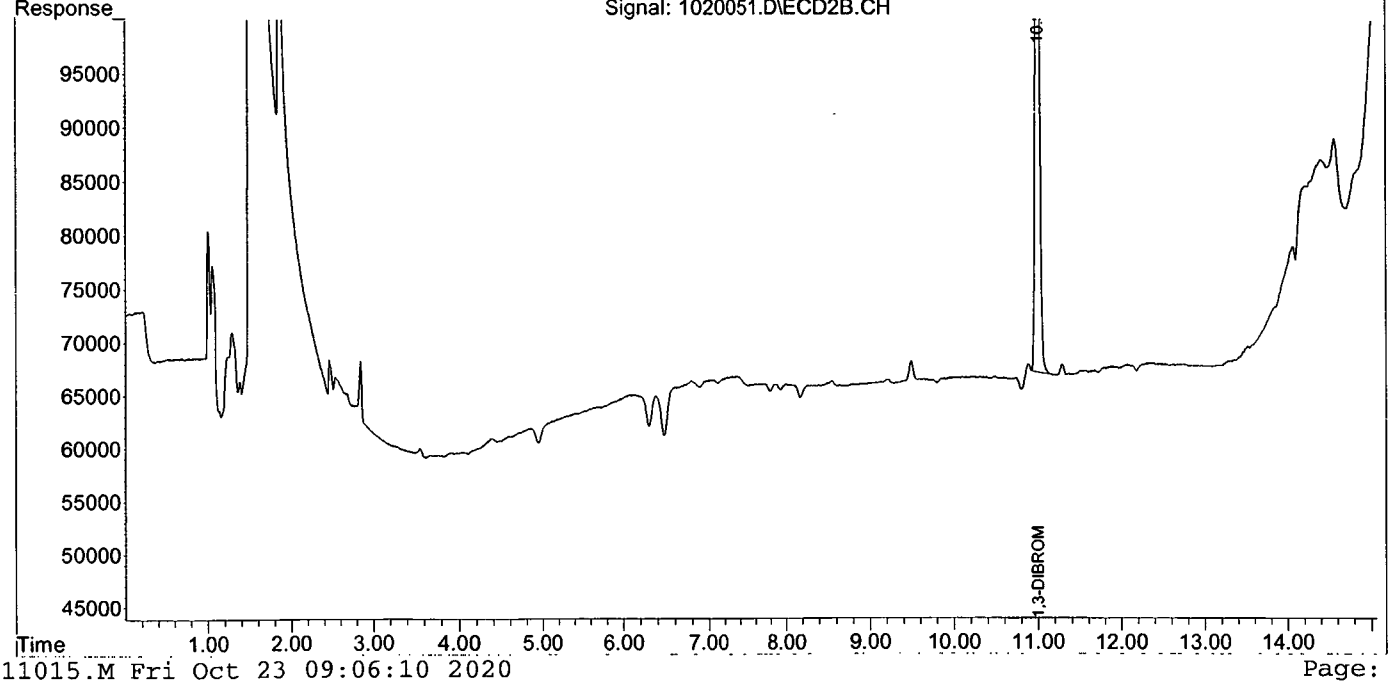
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 4:30 am
Operator : SS
Sample : BA20541W04 2/35.46
Misc : water
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 09:01:29 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 4:50 am
Operator : SS
Sample : BA20542W04 2/35.98
Misc : water
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 09:01:41 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.978	10.997	22642	67925	0.394	0.393
Spiked Amount 0.350			Recovery =		112.57%	112.29%
Target Compounds						
1) TM EDB	0.000	0.000	0	0	N.D. d	N.D. d
2) TM 1,2,3-TCP	0.000	0.000	0	0	N.D. d	N.D. d
4) TM DBCP	0.000	0.000	0	0	N.D. d	N.D. d

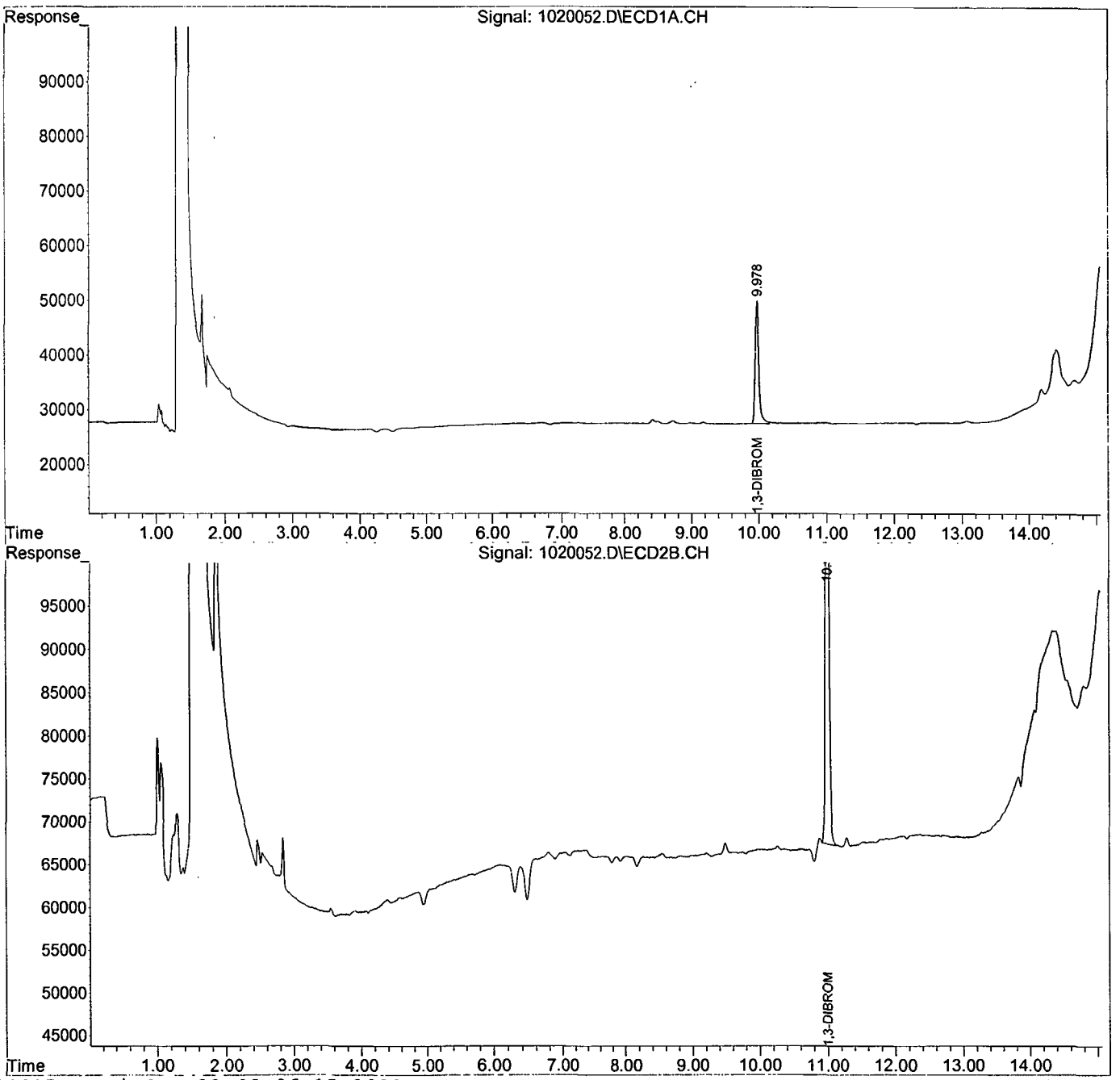
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 4:50 am
Operator : SS
Sample : BA20542W04 2/35.98
Misc : water
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 09:01:41 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50



Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 1:06 am
Operator : SS
Sample : 201022A BLK 2/35.20
Misc : water
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:58:14 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.976	10.999	21361	64850	0.372	0.375
Spiked Amount 0.350			Recovery =		106.29%	107.14%
Target Compounds						
1) TM EDB	0.000	0.000	0	0	N.D. d	N.D. d
2) TM 1,2,3-TCP	0.000	0.000	0	0	N.D. d	N.D. d
4) TM DBCP	0.000	0.000	0	0	N.D. d	N.D. d

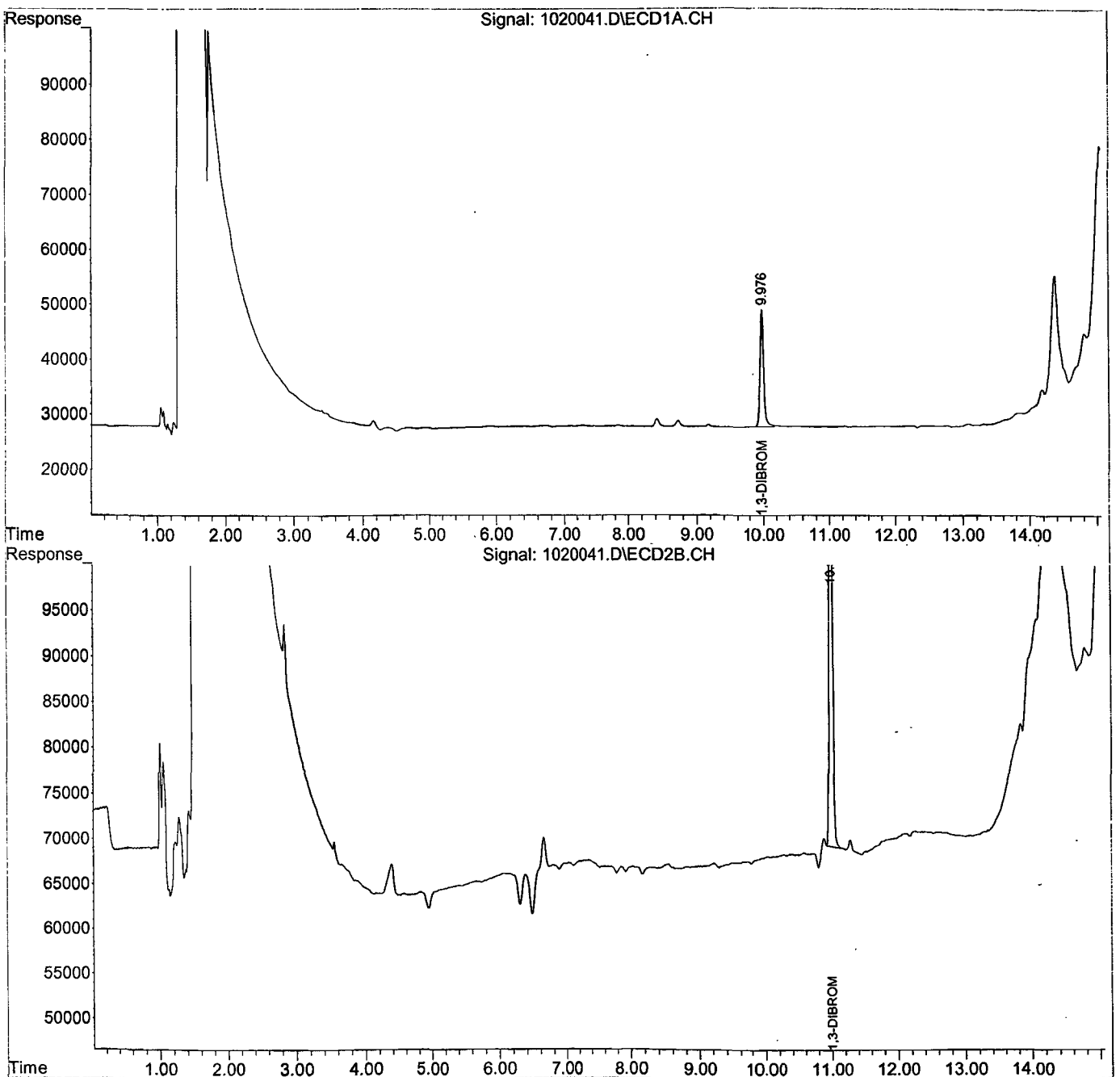
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 1:06 am
Operator : SS
Sample : 201022A BLK 2/35.20
Misc : water
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:58:14 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50



Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 1:27 am
Operator : SS
Sample : 201022A LCS-1 2/35.10
Misc : water
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:47:45 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBRO...	9.978	10.997	14441	43781	0.251	0.253
Spiked Amount 0.350			Recovery =		71.71%	72.29%
Target Compounds						
1) TM EDB	5.728	7.174	14228	61456	0.253	0.259
2) TM 1,2,3-TCP	9.214	10.410	3709	11268	0.253	0.253
4) TM DBCP	13.308	14.060	46998	180776	0.243	0.223

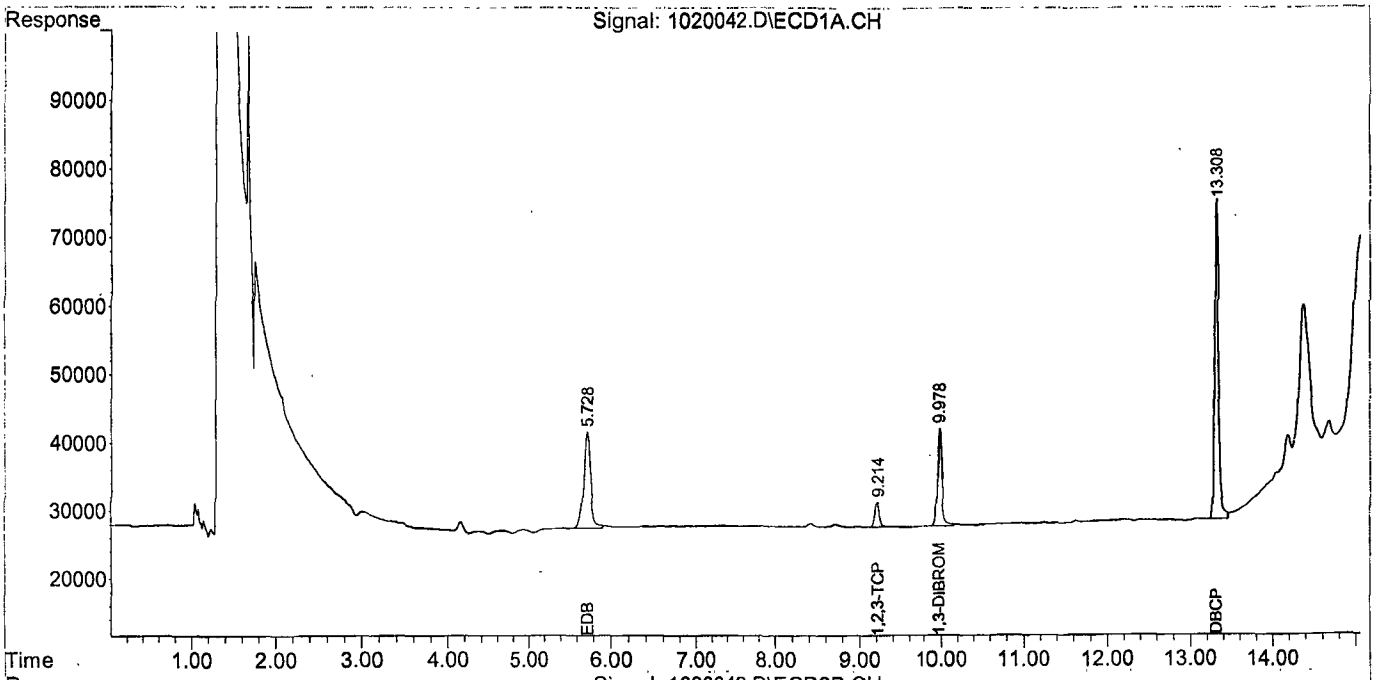
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

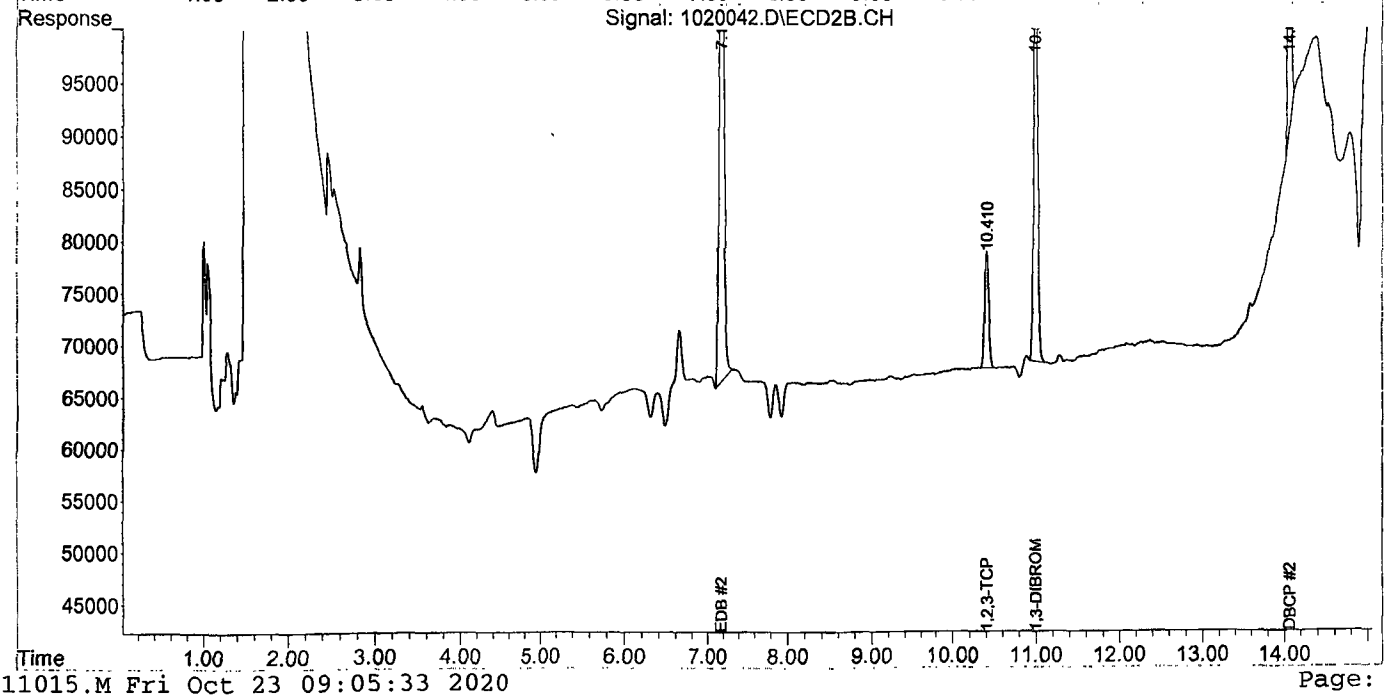
Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 1:27 am
Operator : SS
Sample : 201022A LCS-1 2/35.10
Misc : water
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:47:45 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50





Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 1:47 am
Operator : SS
Sample : 201022A LCSD-1 2/35.13
Misc : water
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:47:48 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
3) S	1,3-DIBRO...	9.976	10.998	14639	45245	0.255	0.262
	Spiked Amount 0.350			Recovery	=	72.86%	74.86%
	Target Compounds						
1) TM	EDB	5.729	7.172	14813	64573	0.263	0.273
2) TM	1,2,3-TCP	9.212	10.408	3821	11791	0.261	0.265
4) TM	DBCP	13.309	14.062	48505	189035	0.251	0.233

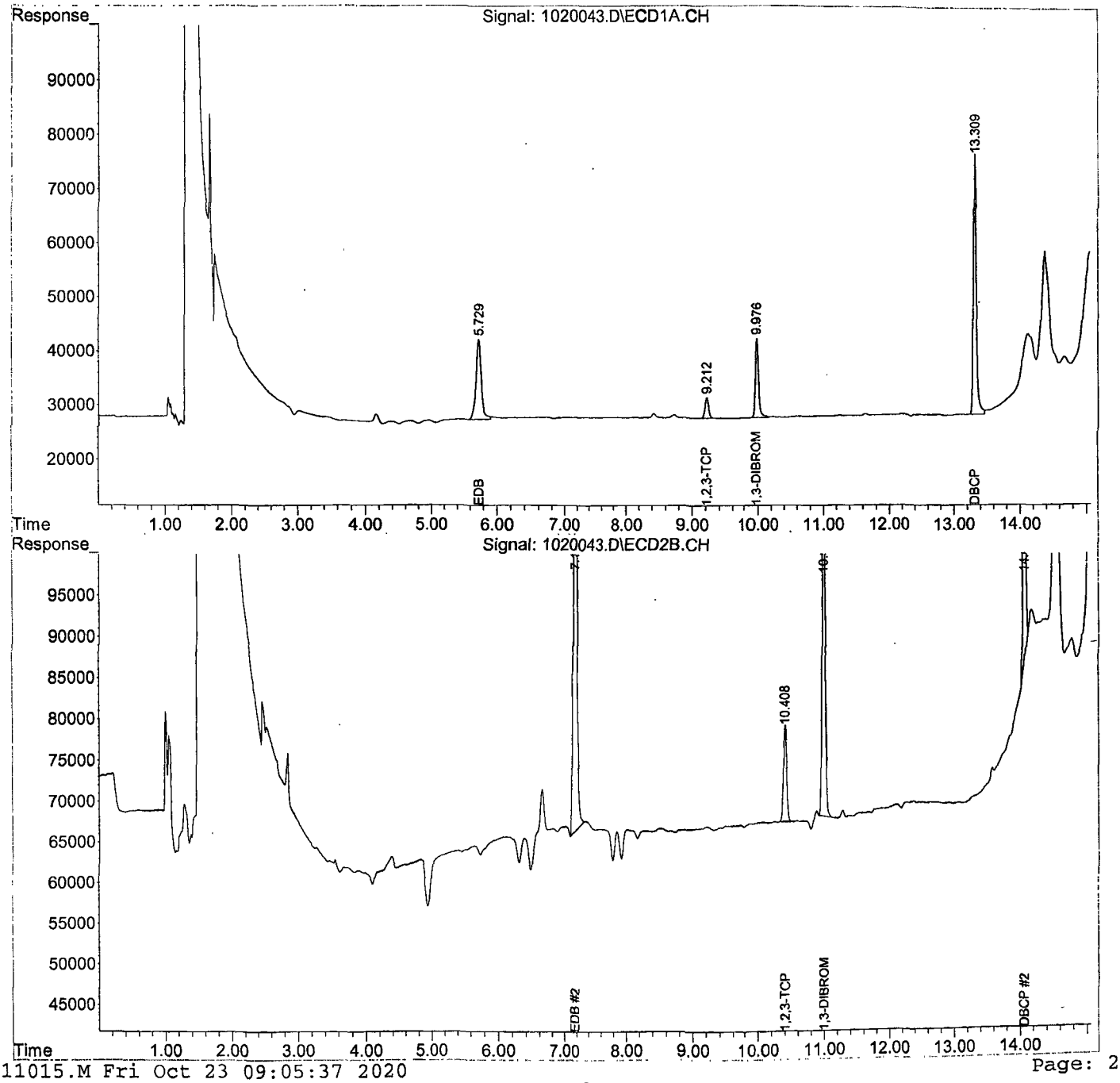
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\HERBIE\DATA\201022\
Data File : 1020043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Oct 2020 1:47 am
Operator : SS
Sample : 201022A LCSD-1 2/35.13
Misc : water
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Oct 23 08:47:48 2020
Quant Method : G:\HERBIE\DATA\201022\80111015.M
Quant Title : 504.1 OR 8011
QLast Update : Fri Oct 23 08:45:16 2020
Response via : Initial Calibration
Integrator: RTE 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2µL
Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
Signal #1 Info : 0.25 Signal #2 Info : 0.50



Name of Final Standard 504/8011 Surrogate **Prep'd By (Initials)** SS

Prep Date 10/19/20

Exp Date 01/07/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1,3 DBP Stock	APPL	1,3 DBP Stock	100 ug/mL	01/07/20	01/07/21	35 uL	10 mL	Methanol #0235140	0.35ug/ml

Name of Final Standard 504/8011 Spike **Prep'd By (Initials)** SS

Prep Date 10/19/20

Exp Date 01/07/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/8011 Stock	APPL	504/8011 Stock	0.35 ug/mL	06/17/20	01/07/21	1000 uL	10 mL	Methanol #0235140	0.035 ug/mL

Name of Final Standard 504/8011 SS SPK **Prep'd By (Initials)** SS

Prep Date 10/19/20

Exp Date 02/19/21

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/8011 SS Stock	APPL	504/8011 SS Stock	0.35 ug/mL	04/27/20	04/27/21	1000 uL	10 mL	Methanol #0235140	0.035 ug/mL

Name of Final Standard: 504/8011 Surrogate
Prep Date: 06/17/20
Exp Date: 01/07/21
Prep'd By (Initials): CD

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1,3 DBP Stock	APPL	1,3 DBP Stock	100 ug/mL	01/07/20	01/07/21	35 uL	10 mL	Methanol #0235140	0.35ug/ml

Name of Final Standard: 504/8011 Stock
Prep Date: 06/17/20
Exp Date: 01/07/21
Prep'd By (Initials): CD

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/DOHS Stock	APPL	504/DOHS Stock	20 ug/mL	01/07/20	01/07/21	438 uL	25 mL	Methanol #0235140	0.35 ug/mL
1,3 DBP Stock	APPL	1,3 DBP Stock	100 ug/mL	01/07/20	01/07/21	88 uL	*	*	*

_MWE012

Organic Extraction Worksheet

Method	EPA Method 8011 DBCP/EDB	Extraction Set	201022A	Extraction Method	MWE012	Units	mL

Spiked ID 1	504.1 Spike 10/19/20-1/7/21		Surrogate ID 1	504.1 Surrogate 10/19/20-1/7/21	
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:		
Spiked ID 7			Ext. Start Time:	10/22/20 13:30	
Spiked ID 8			Ext. End Time:	10/22/20 14:45	
			GC Requires Extract By:		

pH1			Water Bath Temp 1 °C	
pH2			Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: KY **Date** 10/22/20 **Witnessed By:** KY **Date** 10/22/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201022A Blk				0.035	1 equip	35.20	2	7	10/22/20 13:30	
2	201022A LCS-1		0.250	1	NA	NA equip	35.10	2	7	10/22/20 13:30	
3	201022A LCSD-1		0.250	1	NA	NA equip	35.13	2	7	10/22/20 13:30	
4	BA20481	BA20481W07			0.035	1 equip	35.01	2	7	10/22/20 13:30	93764
5	BA20482	BA20482W07			0.035	1 equip	35.18	2	7	10/22/20 13:30	93764
6	BA20506	BA20506W04			0.035	1 equip	35.28	2	7	10/22/20 13:30	93813
7	BA20507	BA20507W05			0.035	1 equip	35.44	2	7	10/22/20 13:30	93813
8	BA20508	BA20508W05			0.035	1 equip	35.16	2	7	10/22/20 13:30	93813
9	BA20509	BA20509W05			0.035	1 equip	35.21	2	7	10/22/20 13:30	93813
10	BA20540	BA20540W04			0.035	1 equip	35.58	2	7	10/22/20 13:30	93818
11	BA20541	BA20541W04			0.035	1 equip	35.46	2	7	10/22/20 13:30	93818
12	BA20542	BA20542W04			0.035	1 equip	35.98	2	7	10/22/20 13:30	93818

Solvent and Lot#	
Scale Blance ID	EB1
pH strip	HC904495
Sod. Thiosulfate	1016C241
NaCL	19J145201
GC2 Hexane (2mLs)	DY768

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	SS
Date	10/22/20
Time	15:20
Refrigerator	HOBART

	Technician's Initials
Scanned By	YL
Sample Preparation	KY
Extraction	KY
Concentration	KY

Modified	10/23/20 7:18:41 AM

Reviewed By: SS **Date** 10/23/20

Injection Log

Directory: G:\HERBIE\DATA\201022\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	1020002.D	1	8011-1 10/15/20	water	10/22/20 11:43
2	3	1020003.D	1	8011-2 10/15/20	water	10/22/20 12:03
3	4	1020004.D	1	8011-3 10/15/20	water	10/22/20 12:24
4	5	1020005.D	1	8011-4 10/15/20	water	10/22/20 12:44
5	6	1020006.D	1	8011-5 10/15/20	water	10/22/20 13:05
6	7	1020007.D	1	8011-6 10/15/20	water	10/22/20 13:26
7	8	1020008.D	1	8011SS 10/15/20	water	10/22/20 13:46
8	40	1020040.D	1	8011-3 10/15/20	water	10/23/20 0:46
9	41	1020041.D	1	201022A BLK 2/35.20	water	10/23/20 1:06
10	42	1020042.D	1	201022A LCS-1 2/35.10	water	10/23/20 1:27
11	43	1020043.D	1	201022A LCSD-1 2/35.13	water	10/23/20 1:47
12	50	1020050.D	1	BA20540W04 2/35.58	water	10/23/20 4:10
13	51	1020051.D	1	BA20541W04 2/35.46	water	10/23/20 4:30
14	52	1020052.D	1	BA20542W04 2/35.98	water	10/23/20 4:50
15	53	1020053.D	1	8011-3 10/15/20	water	10/23/20 5:10

ORGANICS

Calibration Data

TPH Extractables
DOC0905

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Initial Cal. Date: 09/05/20
Instrument: Apollo

Initials: SS/

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
			905007.D	905008.D	905009.D	905010.D	905011.D	905012.D									
1	HATML	Diesel (C10-C24)	3520375	2214378	2281032	2080486	2123388	2190073					2401622	23	HATM	0.999	
2	HBTM	Motor Oil (C24-C40)		1596138	1576848	1430288	1467043	1498633					1513790	4.7	HBTM		
3	SA	Ortho-Terphenyl(S)		2811060	2679862	2349319	2368660	2417877					2525355	8.2	SA		
4	SA	Octacosane(S)		2182984	2114335	1968540	2003128	2024026					2058603	4.3	SA		
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1.148404

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905007.D Vial: 7
Acq On : 9-5-20 17:04:35 Operator:
Sample : Diesel Motor Oil-1 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

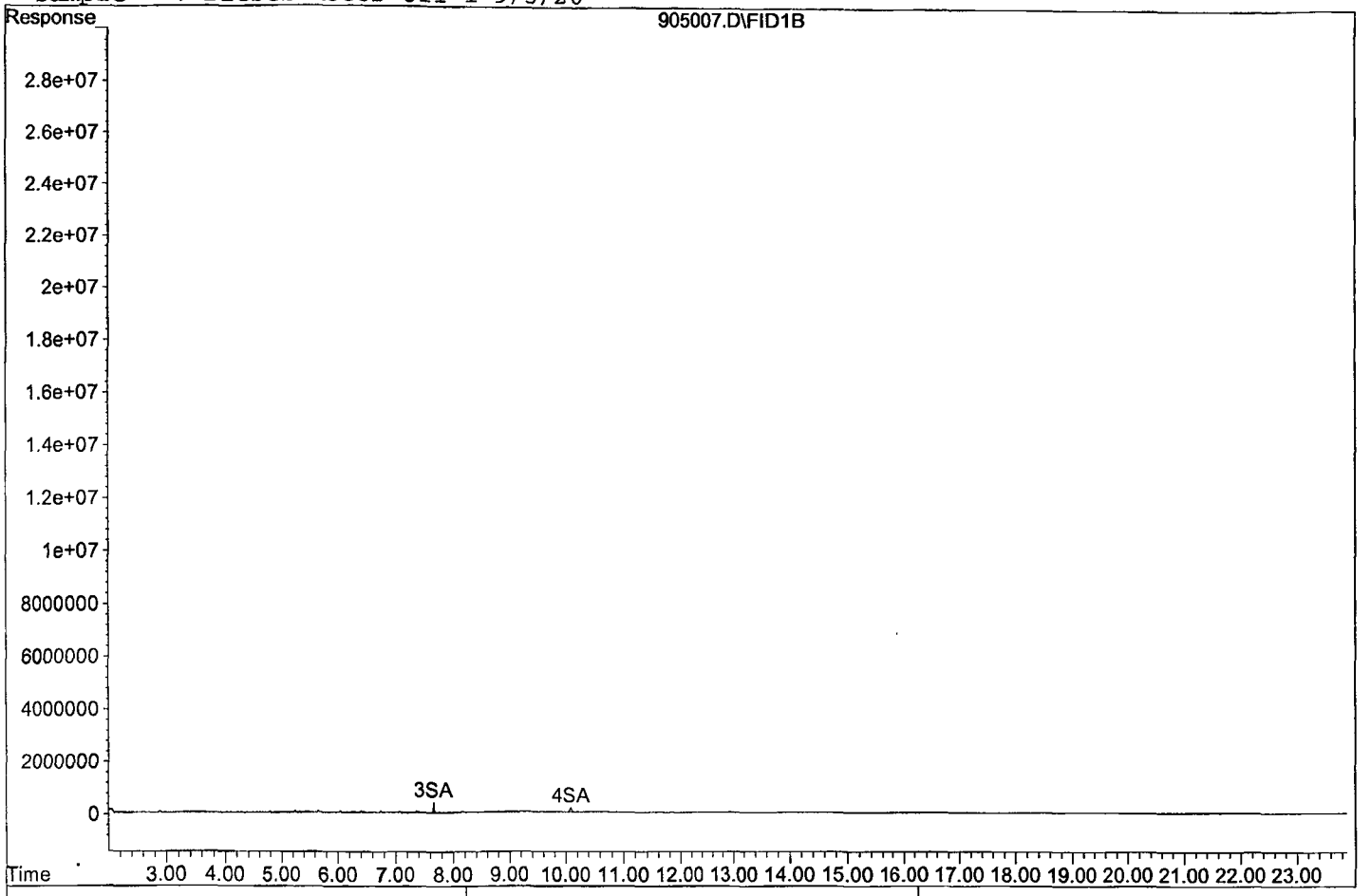
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

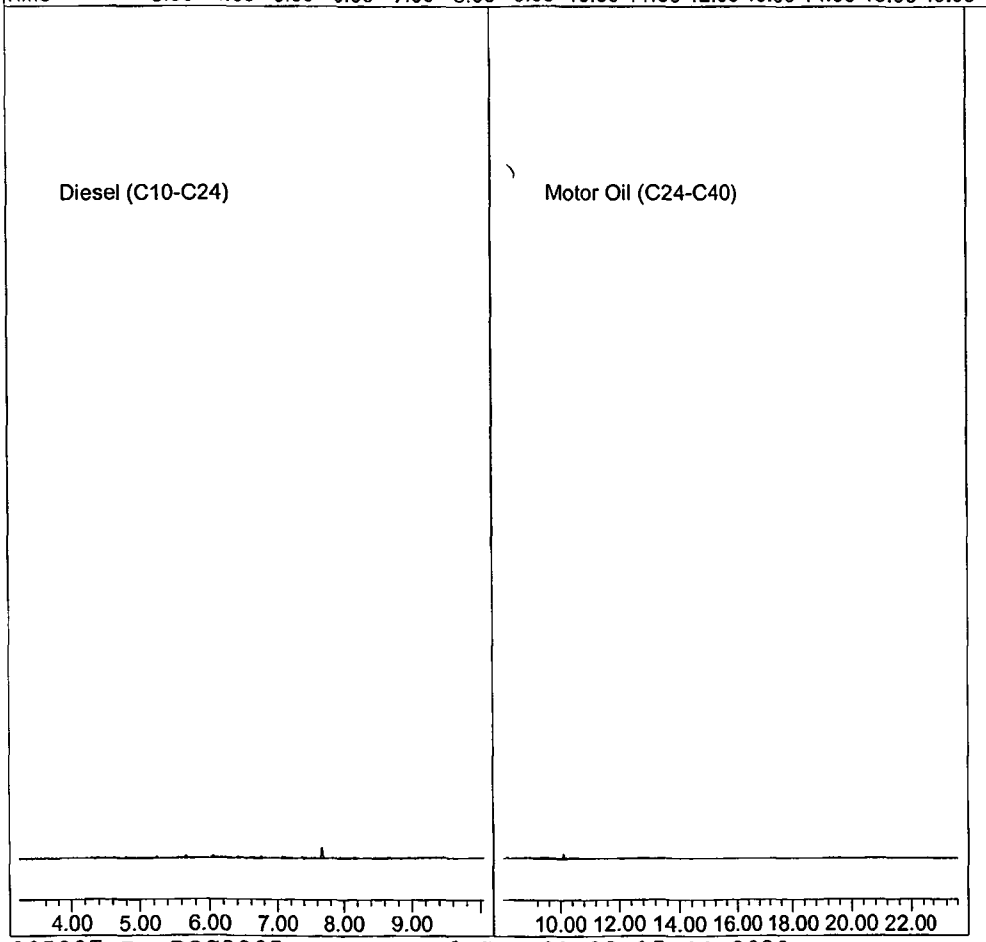
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	4755108	0.463 ppb
Surrogate Spike 30.000	Recovery =		1.54%
4) SA Octacosane(S)	10.09	3753150	0.722 ppb
Surrogate Spike 30.000	Recovery =		2.41%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	70407491	17.223 ppb
2) HBTM Motor Oil (C24-C40)	15.82	77569840	21.354 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905007.D
Sample : Diesel Motor Oil-1 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905008.D Vial: 8
Acq On : 9-5-20 17:32:40 Operator:
Sample : Diesel Motor Oil-2 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

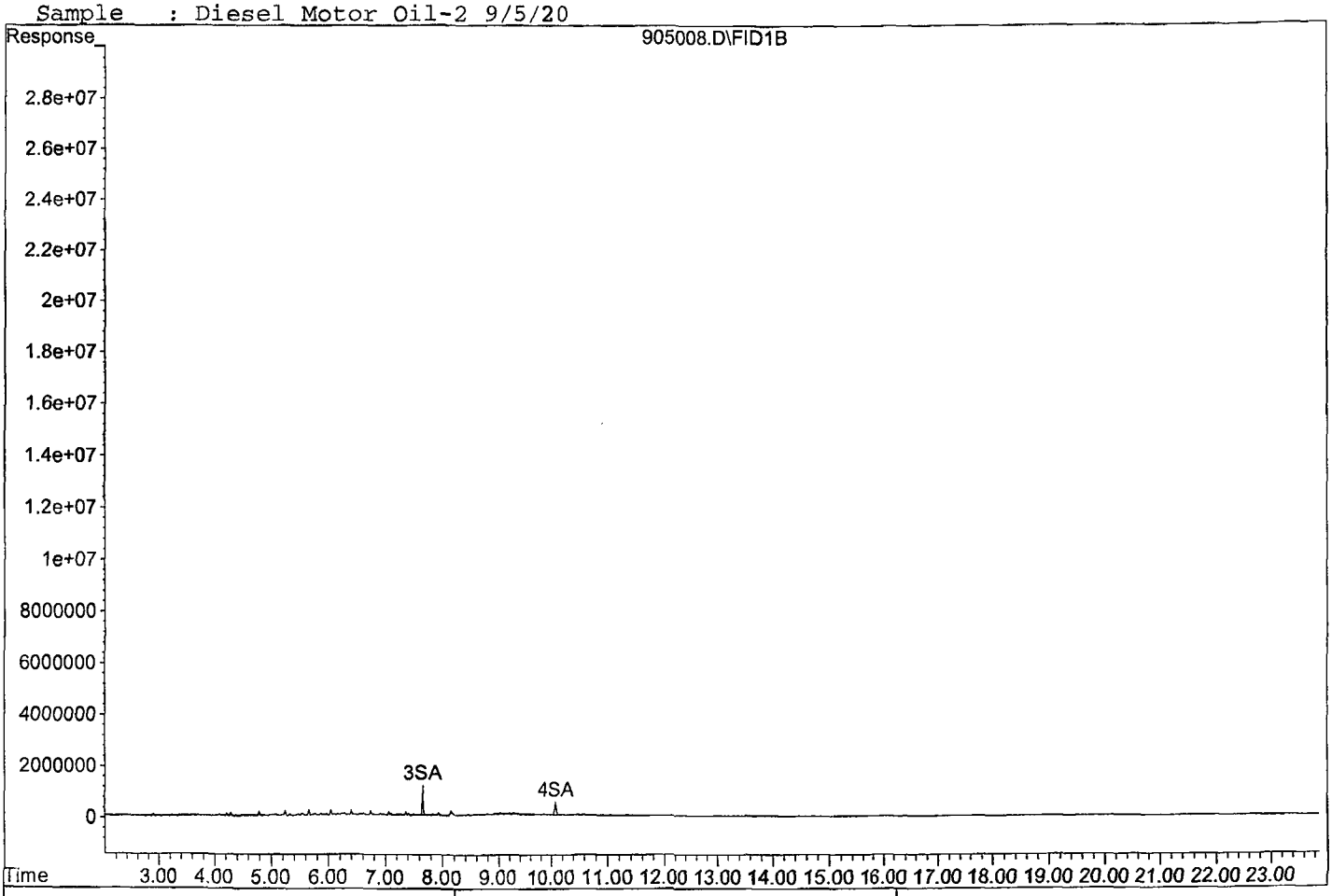
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

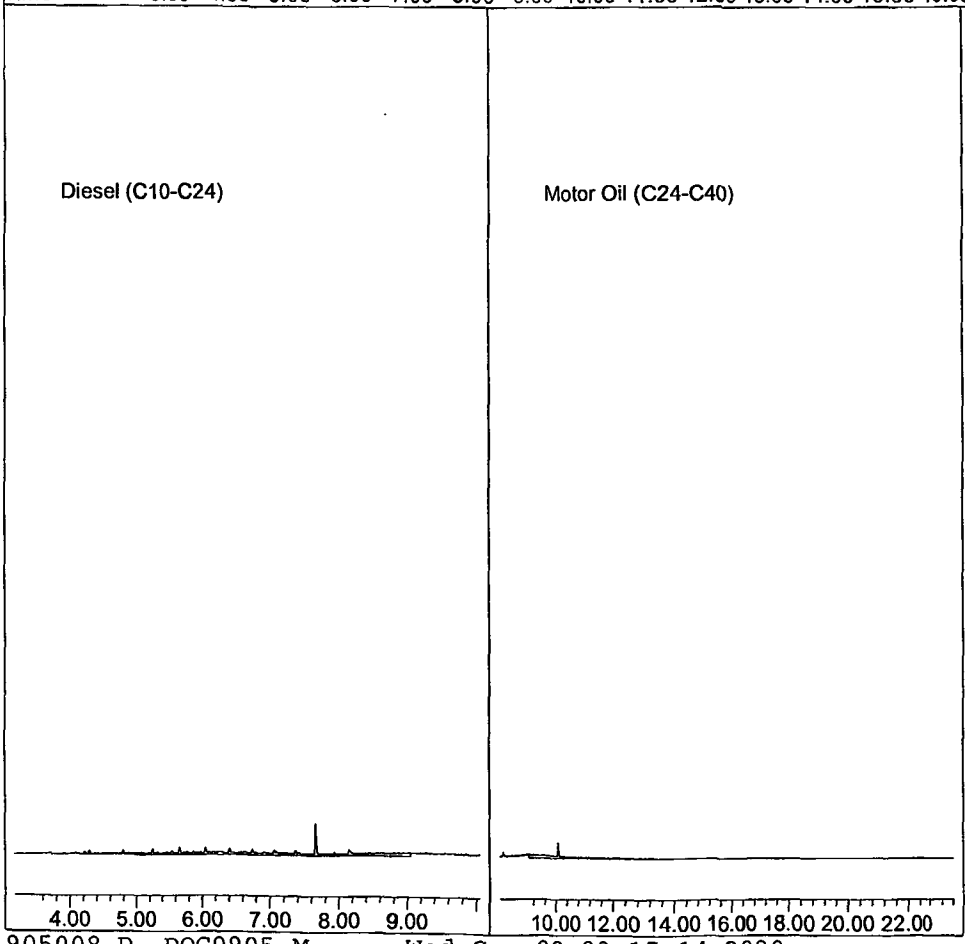
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	14055300	2.417 ppb
Surrogate Spike 30.000	Recovery =		8.06%
4) SA Octacosane(S)	10.08	10914920	2.508 ppb
Surrogate Spike 30.000	Recovery =		8.36%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	221437795	52.238 ppb
2) HBTM Motor Oil (C24-C40)	15.82	159613804	49.156 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905008.D
Sample : Diesel Motor Oil-2 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905009.D Vial: 9
Acq On : 9-5-20 18:00:45 Operator:
Sample : Diesel Motor Oil-3 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

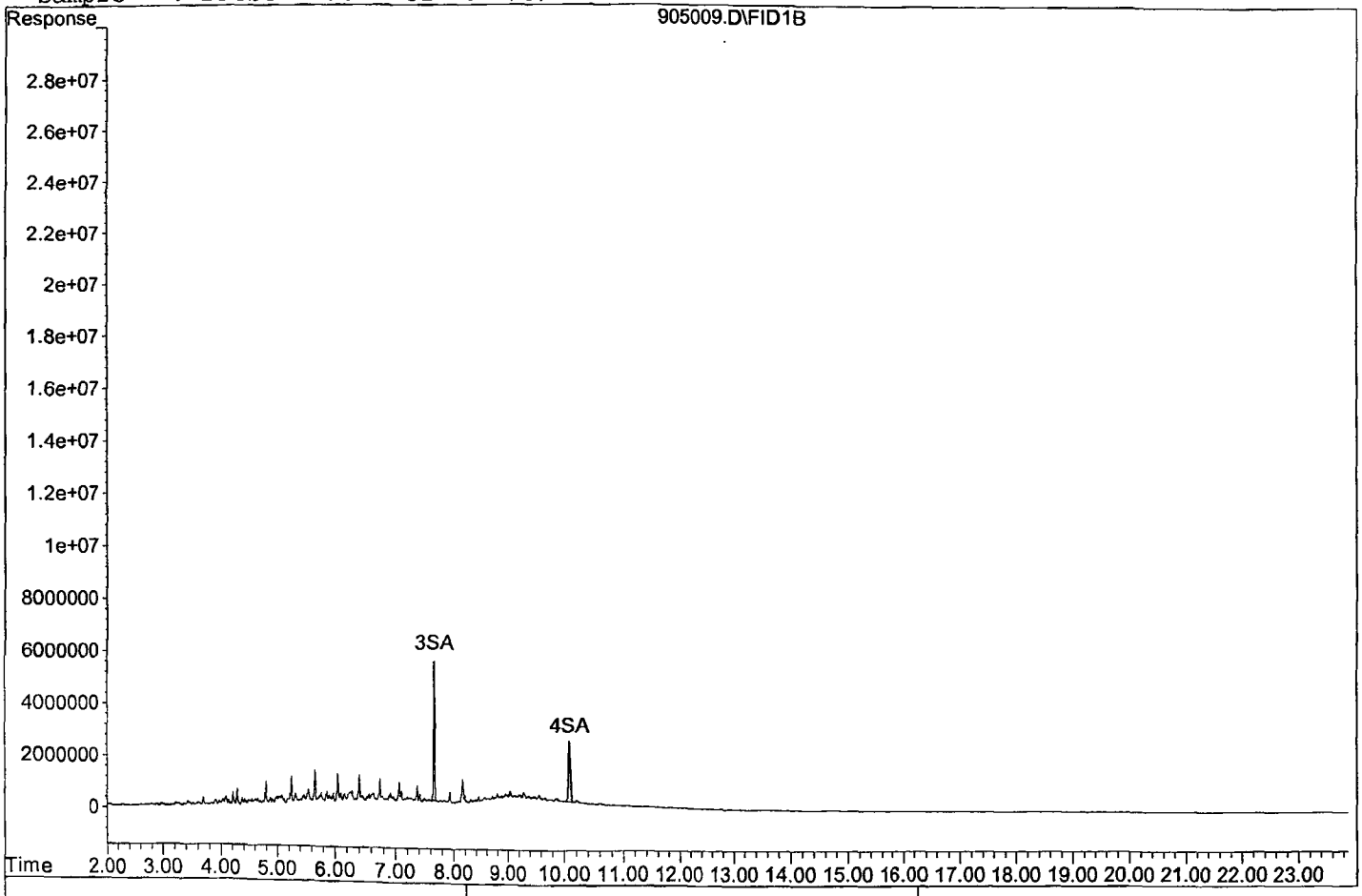
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

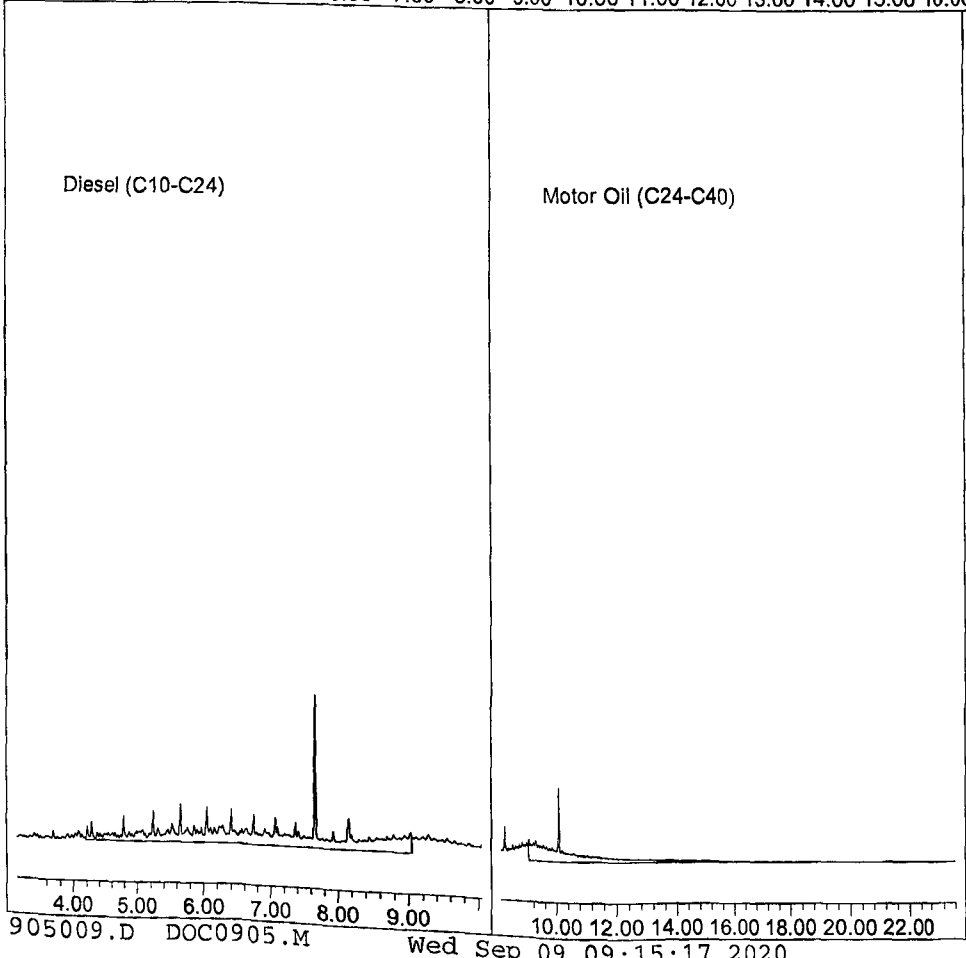
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	66996540	13.544 ppb
Surrogate Spike 30.000	Recovery =		45.15%
4) SA Octacosane(S)	10.09	52858376	12.967 ppb
Surrogate Spike 30.000	Recovery =		43.22%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1140515960	265.317 ppb
2) HBTM Motor Oil (C24-C40)	15.82	788424096	262.237 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File: G:\APOLLO\DATA\200905\905009.D
Sample : Diesel Motor Oil-3 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905010.D Vial: 10
Acq On : 9-5-20 18:28:54 Operator:
Sample : Diesel Motor Oil-4 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

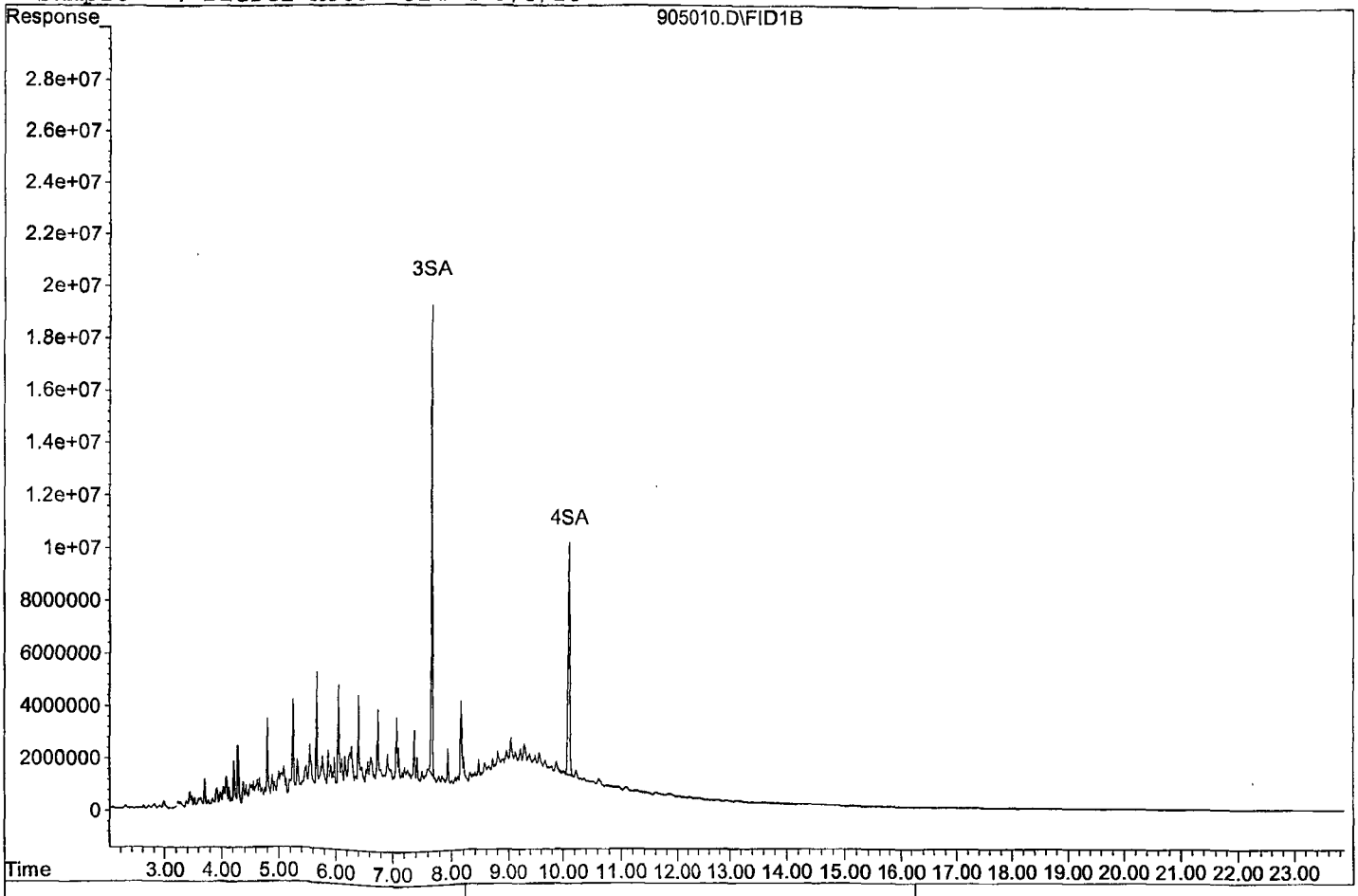
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

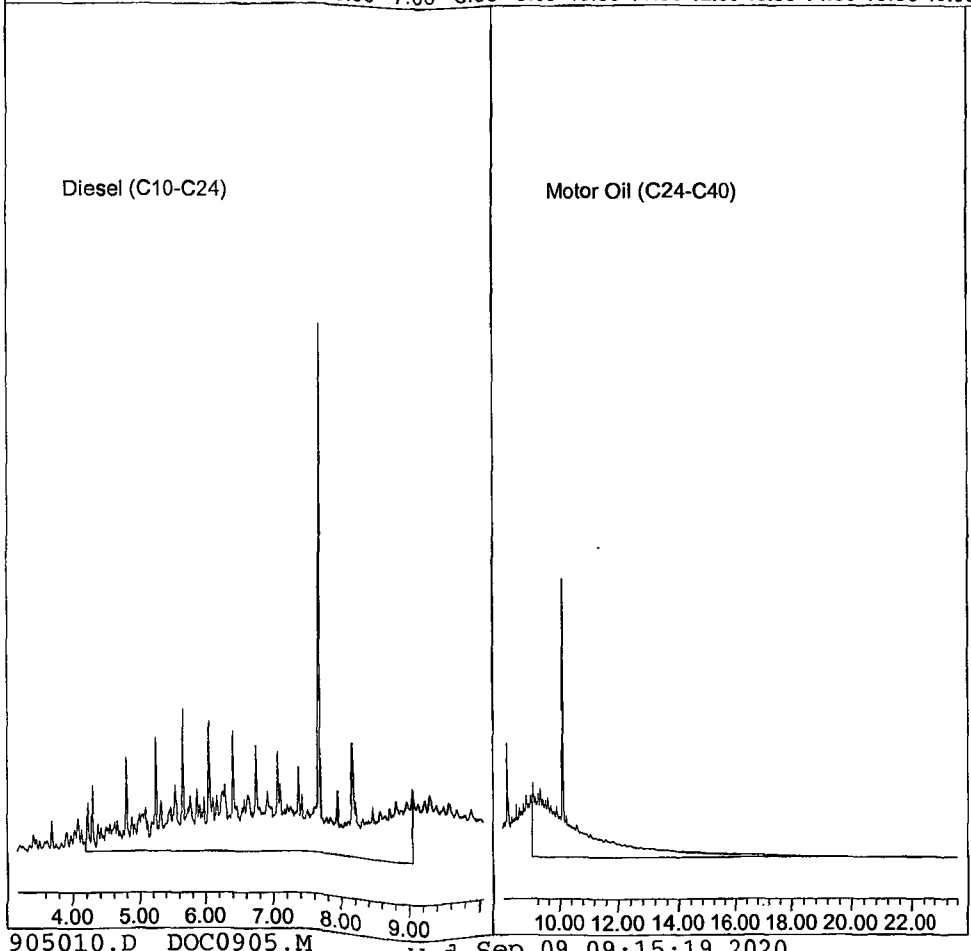
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	234931900	48.840 ppb
Surrogate Spike 30.000	Recovery =		162.80%
4) SA Octacosane(S)	10.11	196853973	48.872 ppb
Surrogate Spike 30.000	Recovery =		162.91%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	4160972977	965.579 ppb
2) HBTM Motor Oil (C24-C40)	15.82	2860576922	964.412 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905010.D
Sample : Diesel Motor Oil-4 9/5/20





905010.D DOC0905.M Wed Sep 09 09:15:19 2020

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905011.D Vial: 11
Acq On : 9-5-20 18:56:54 Operator:
Sample : Diesel Motor Oil-5 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

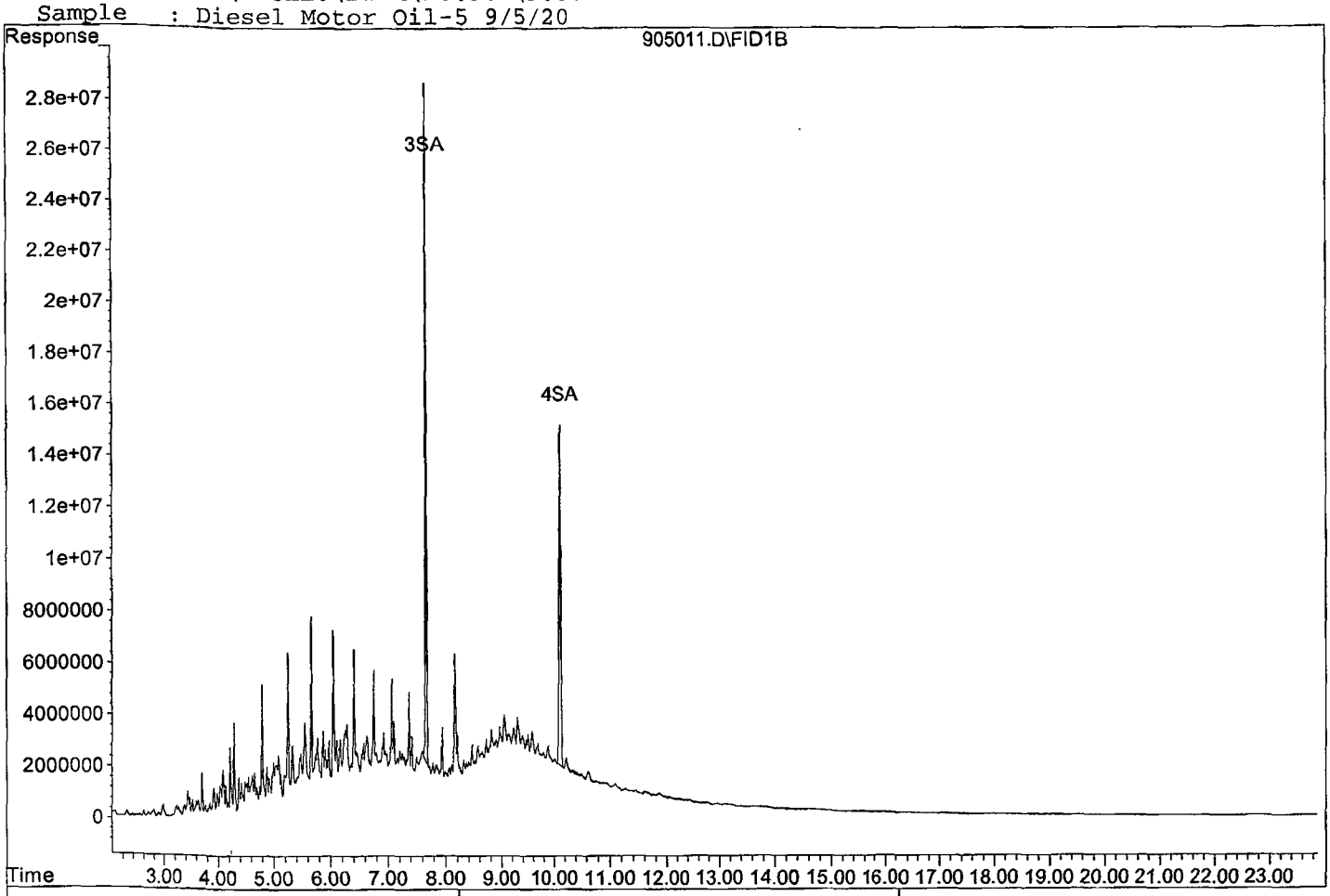
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

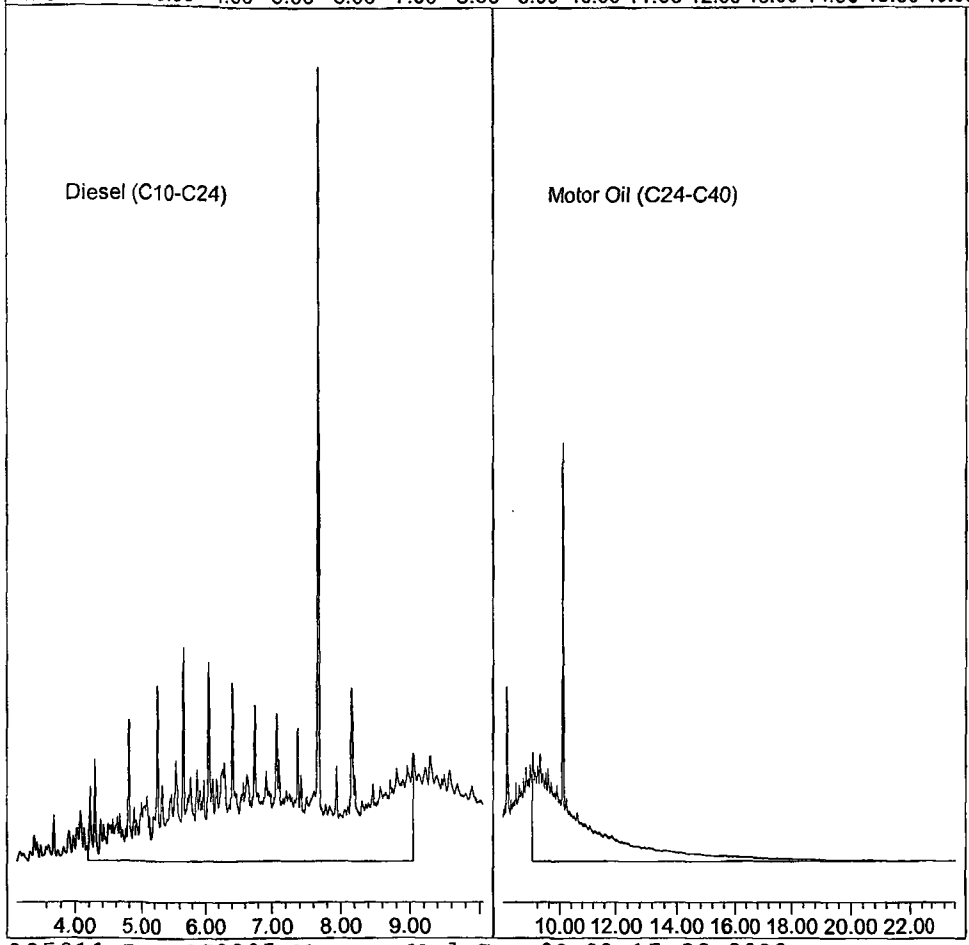
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	355298964	74.138 ppb
Surrogate Spike 30.000		Recovery =	247.13%
4) SA Octacosane(S)	10.12	300469164	74.708 ppb
Surrogate Spike 30.000		Recovery =	249.03%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	6370162550	1477.758 ppb
2) HBTM Motor Oil (C24-C40)	15.82	4401128474	1486.448 ppb

Target Compounds

Data File: G:\APOLLO\DATA\200905\905011.D
Sample : Diesel Motor Oil-5 9/5/20





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905012.D Vial: 12
Acq On : 9-5-20 19:24:55 Operator:
Sample : Diesel Motor Oil-6 9/5/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

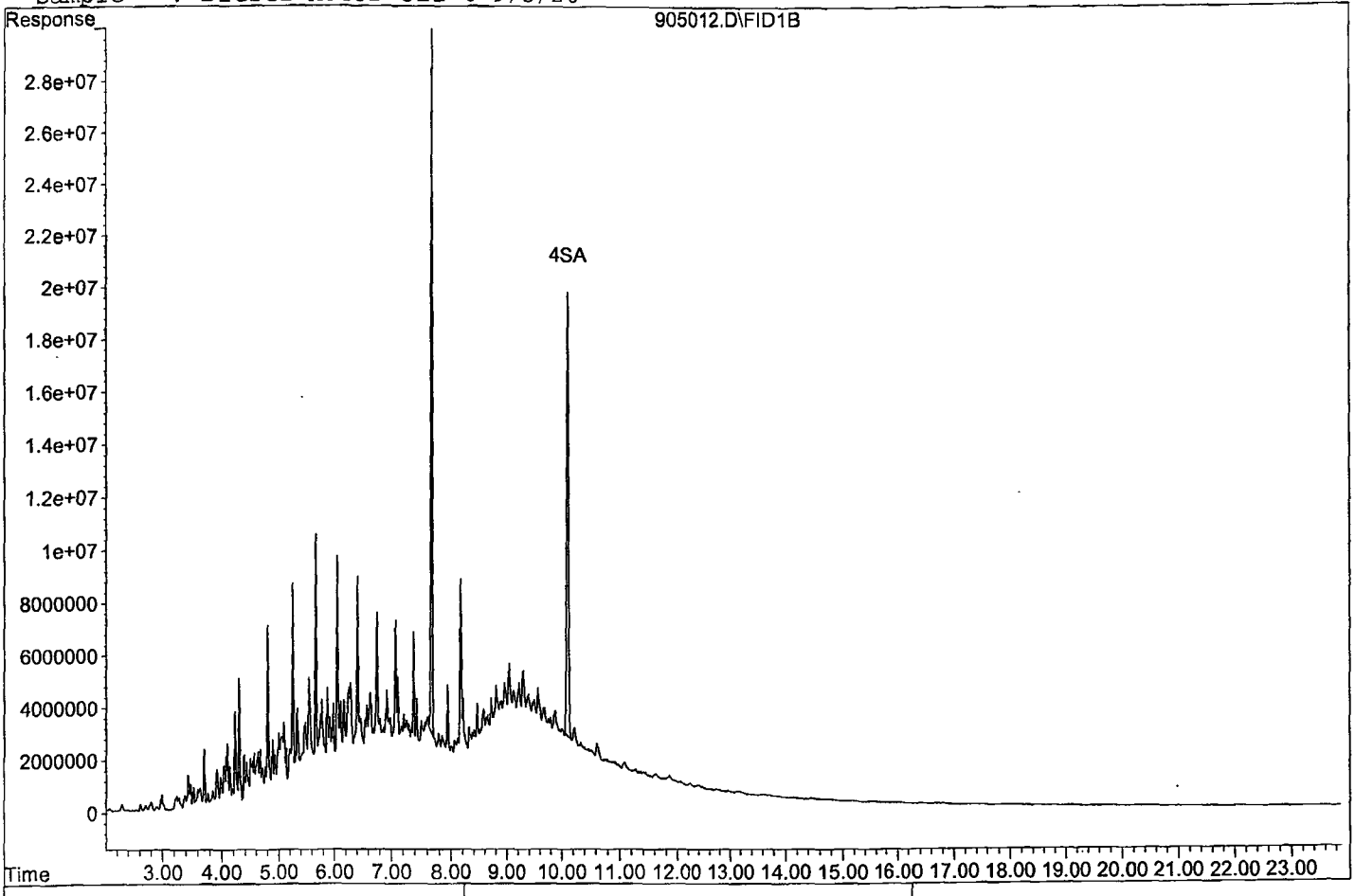
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.68	483575307	101.098 ppb
Surrogate Spike 30.000	Recovery =		336.99%
4) SA Octacosane(S)	10.11	404805297	100.724 ppb
Surrogate Spike 30.000	Recovery =		335.75%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	8760292310	2031.885 ppb
2) HBTM Motor Oil (C24-C40)	15.82	5994530170	2026.393 ppb

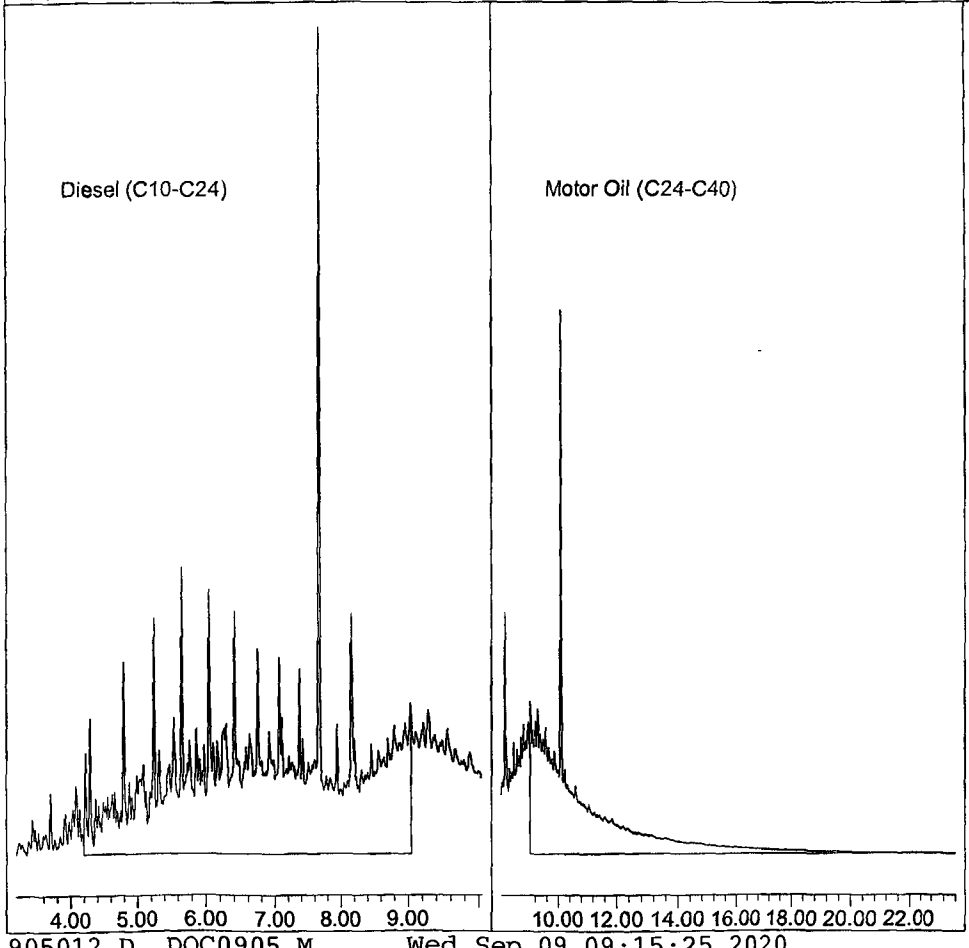
Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

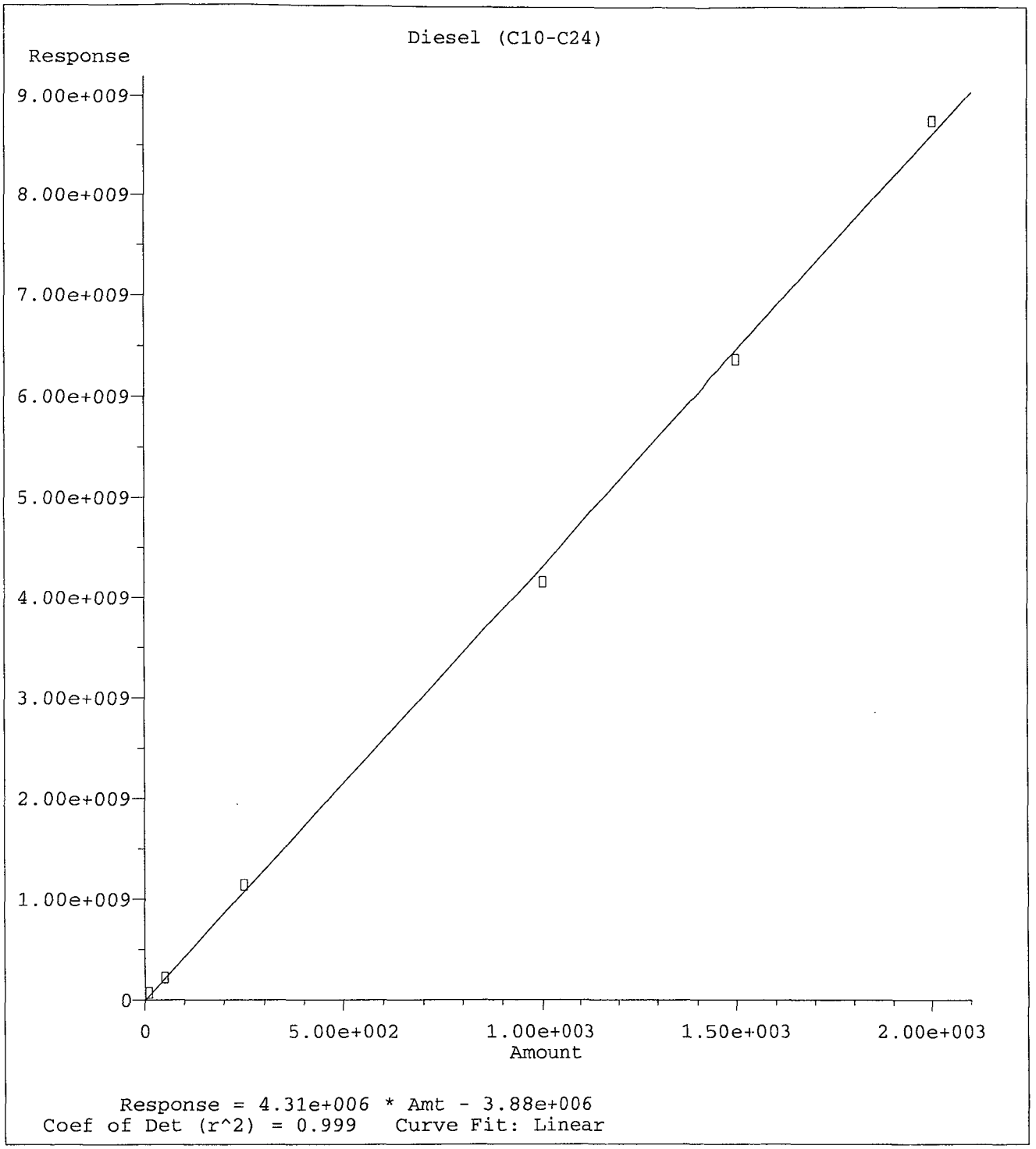
Quantitation Report

Data File: G:\APOLLO\DATA\200905\905012.D
Sample : Diesel Motor Oil-6 9/5/20





905012.D DOC0905.M Wed Sep 09 09:15:25 2020



Method Name: G:\APOLLO\DATA\200905\DOC0905.M
Calibration Table Last Updated: Wed Sep 09 09:10:41 2020

TPH Extractables
DOC0905

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 09/05/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 905013.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2384790	0.70	HATML	11
2	HBTM	Motor Oil (C24-C40)	1513790	1737490	15	HBTM	
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		Average			7.9		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\200905\905013.D Vial: 13
Acq On : 9-5-20 19:52:52 Operator:
Sample : Diesel Motor Oil-SS 7/21/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 8 8:21 2020 Quant Results File: DOC0905.RES

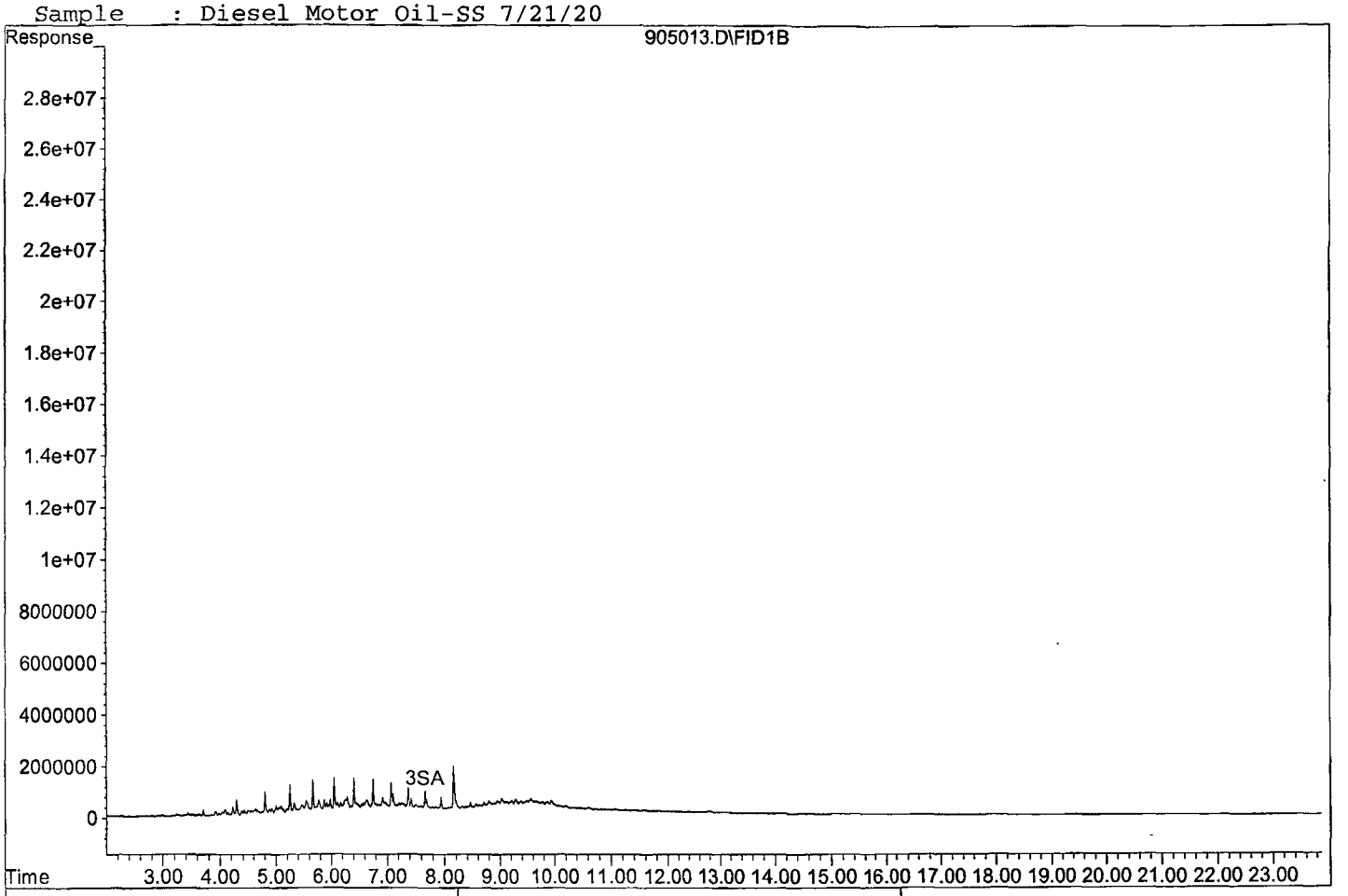
Method : G:\APOLLO\DATA\200905\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Sep 09 09:10:41 2020
Response via : Multiple Level Calibration

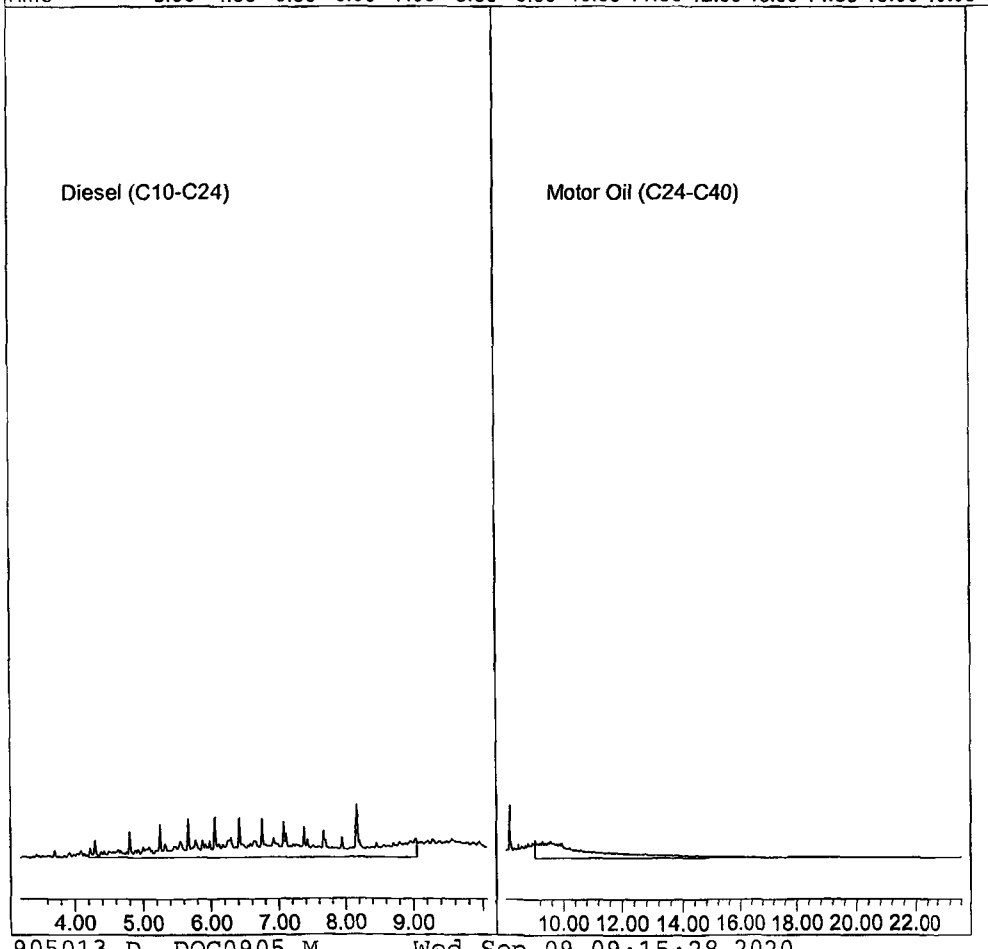
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	4757925	0.463 ppb
Surrogate Spike 30.000		Recovery =	1.54%
4) SA Octacosane(S)	10.06	-2131	N.D. ppb
Surrogate Spike 30.000		Recovery =	0.00%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1192394512	277.344 ppb
2) HBTM Motor Oil (C24-C40)	15.82	868745074	289.454 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\200905\905013.D
Sample : Diesel Motor Oil-SS 7/21/20





TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/28/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1019275.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2059160	14	HATML	4.2
2	HBTM	Motor Oil (C24-C40)	1513790	1343200	11	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2516270	0.36	SA	
4	SA	Octacosane(S)	2058600	1999730	2.9	SA	
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40							
		Average			7.1		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201019\1019275.D Vial: 75
Acq On : 10-28-20 11:43:07 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 11 14:25 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

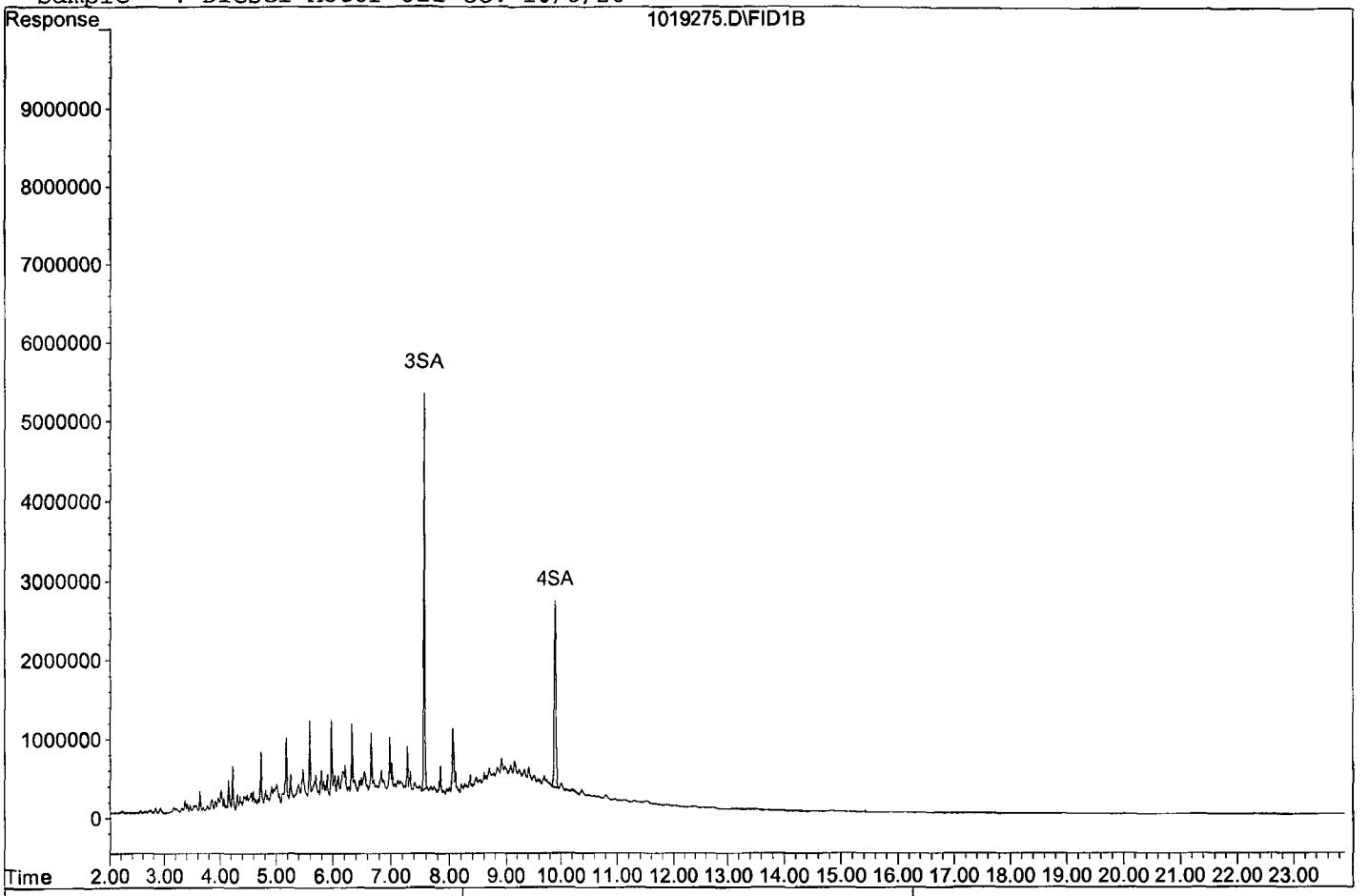
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

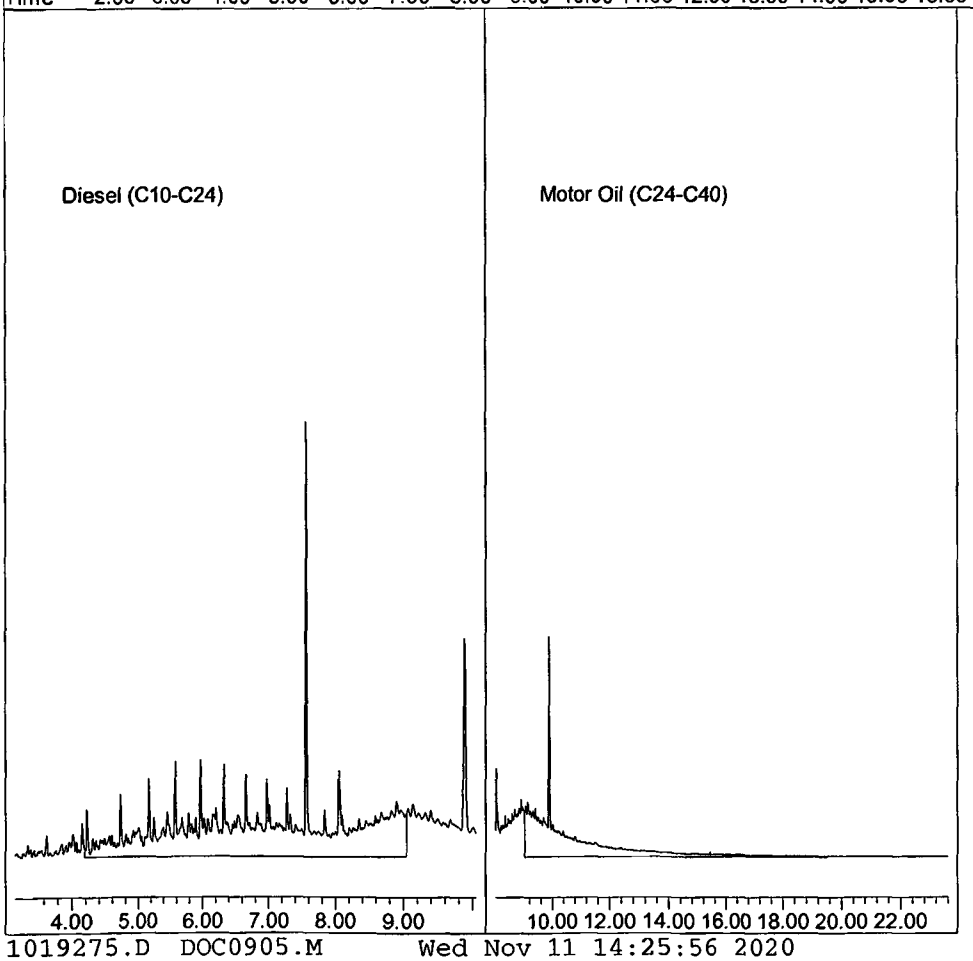
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.57	62906750	12.455	ppb
Surrogate Spike 12.000	Recovery =		103.79%	
4) SA Octacosane(S)	9.89	49993187	12.143	ppb
Surrogate Spike 12.000	Recovery =		101.19%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.62	1029581232	239.598	ppb
2) HBTM Motor Oil (C24-C40)	15.82	671598528	221.827	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201019\1019275.D
Sample : Diesel Motor Oil-CCV 10/8/20





TPH Extractables
DOC0905

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: Water

SDG No:
Date Analyzed: 10/28/20
Instrument: Apollo
Initial Cal. Date: 09/05/20
Data File: 1028011.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2401620	2109680	12	HATML	1.8
2	HBTM	Motor Oil (C24-C40)	1513790	1387540	8.3	HBTM	
3	SA	Ortho-Terphenyl(S)	2525360	2567430	1.7	SA	
4	SA	Octacosane(S)	2058600	2022960	1.7	SA	
5							
6							
7							
8							
9							
10							
11							
12							
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15							
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19							
20							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			5.9		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028011.D Vial: 11
Acq On : 10-28-20 17:13:07 Operator:
Sample : Diesel Motor Oil-CCV 10/8/20 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 7:17 2020 Quant Results File: DOC0905.RES

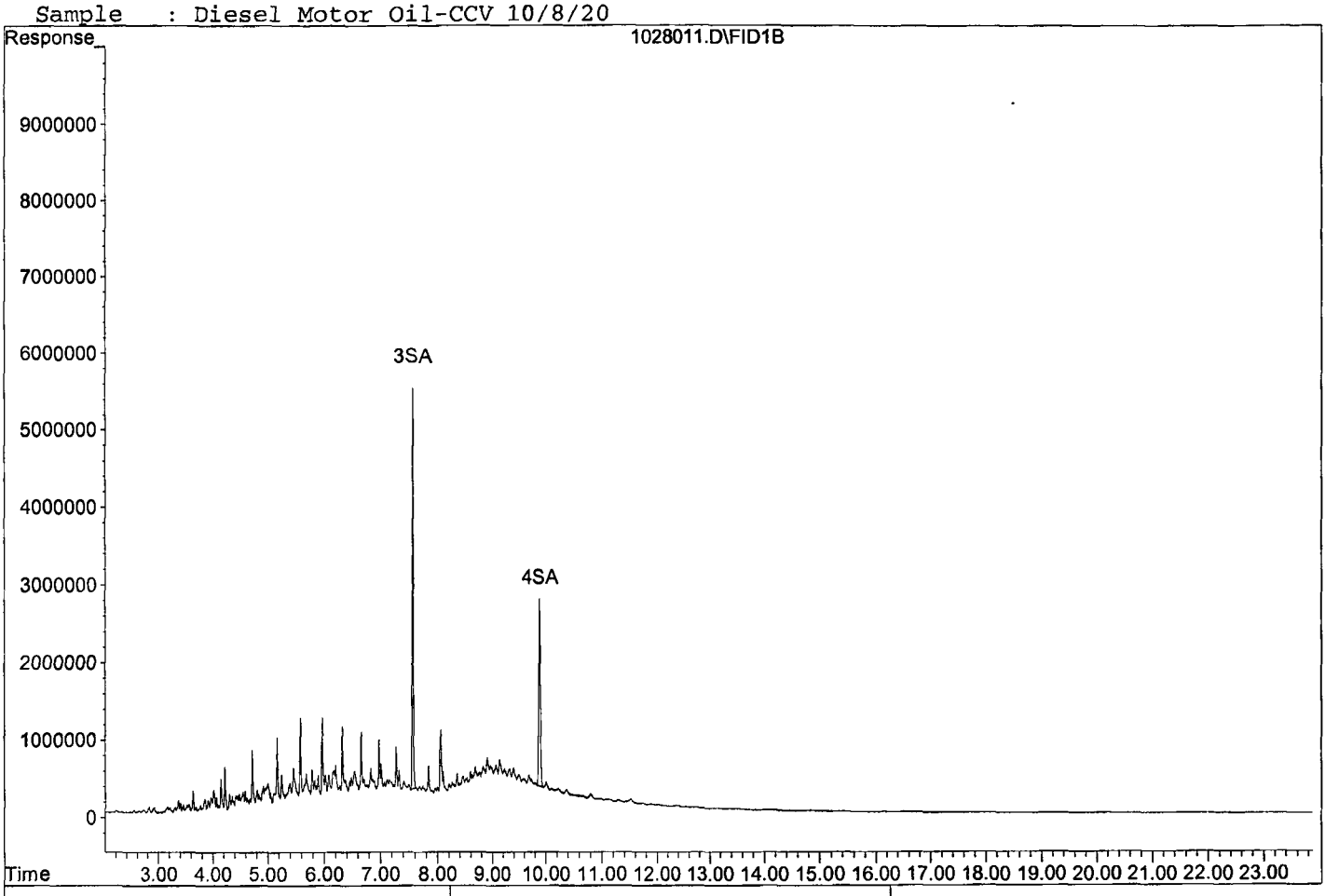
Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

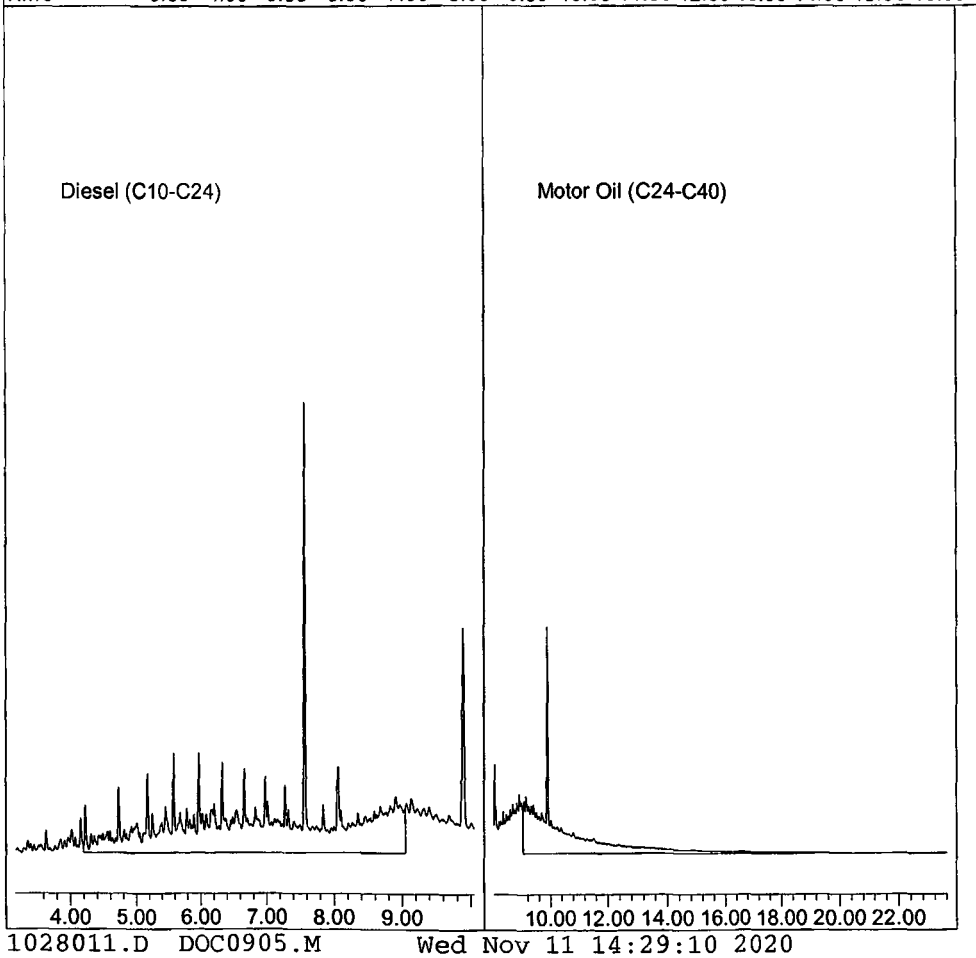
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	64185809	12.708 ppb
Surrogate Spike 12.000	Recovery =		105.90%
4) SA Octacosane(S)	9.89	50574103	12.284 ppb
Surrogate Spike 12.000	Recovery =		102.37%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	1054838077	245.453 ppb
2) HBTM Motor Oil (C24-C40)	15.82	693770184	229.150 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028011.D
Sample : Diesel Motor Oil-CCV 10/8/20





ORGANICS

Raw Data

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201028\1028003.D Vial: 3
Acq On : 10-28-20 13:28:16 Operator:
Sample : BA20539W23 5/800 Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 28 14:02 2020 Quant Results File: DOC0905.RES

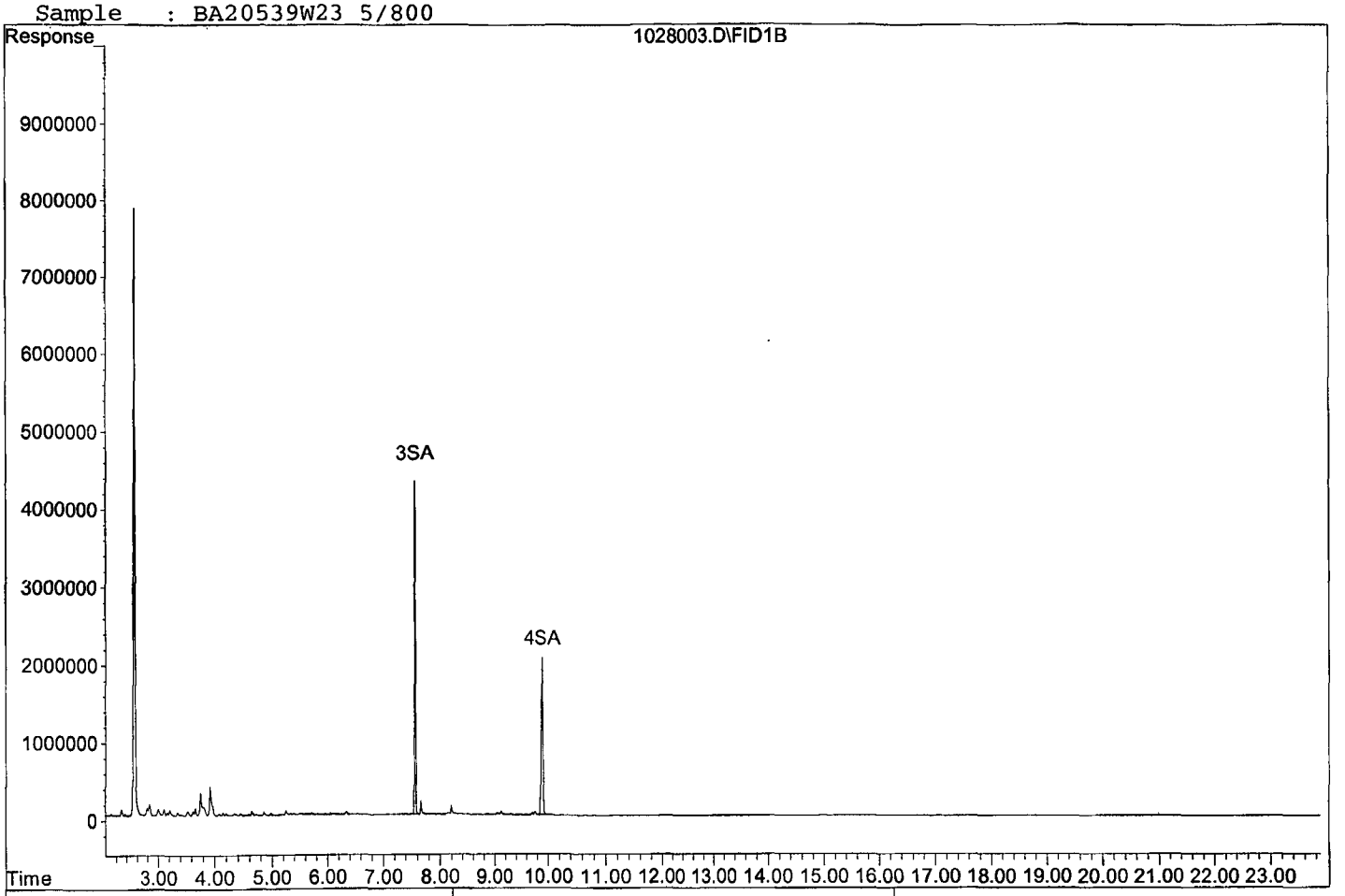
Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

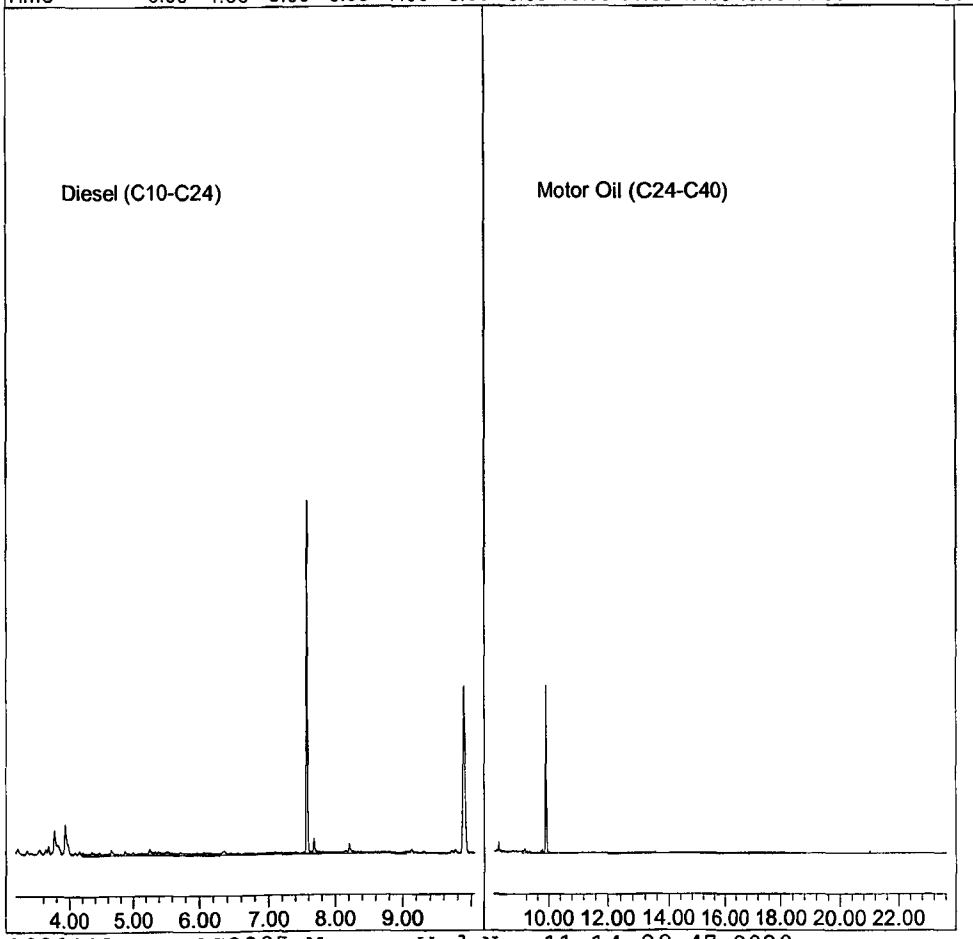
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	51120211	63.259 ppb
Surrogate Spike 75.000	Recovery =		84.35%
4) SA Octacosane(S)	9.89	44400826	67.401 ppb
Surrogate Spike 75.000	Recovery =		89.87%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	63624822	97.815 ppb
2) HBTM Motor Oil (C24-C40)	15.82	27261703	56.278 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028003.D
Sample : BA20539W23 5/800





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201028\1028004.D Vial: 4
Acq On : 10-28-20 13:56:24 Operator:
Sample : BA20541W10 5/800 Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 28 14:02 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

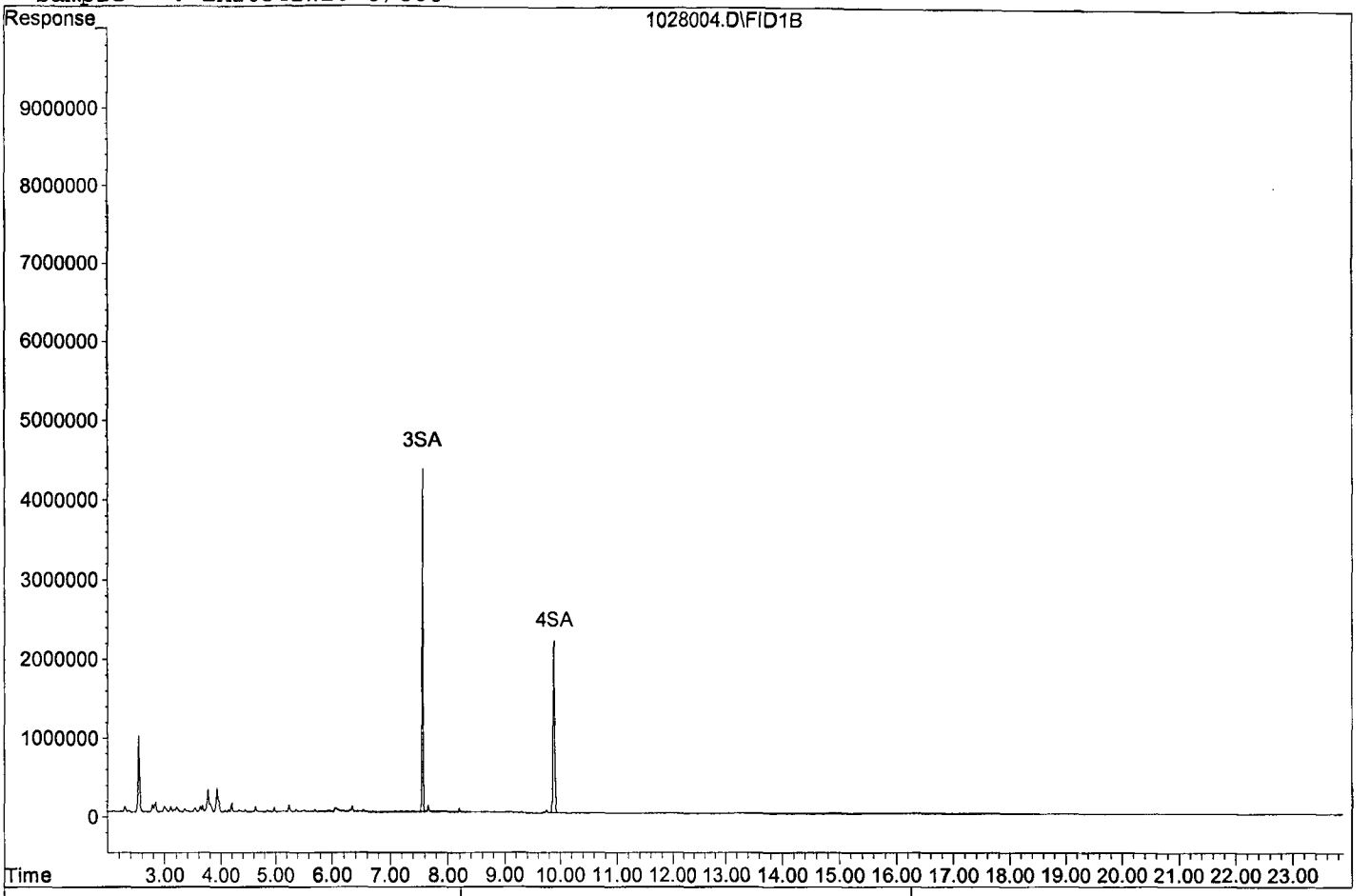
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

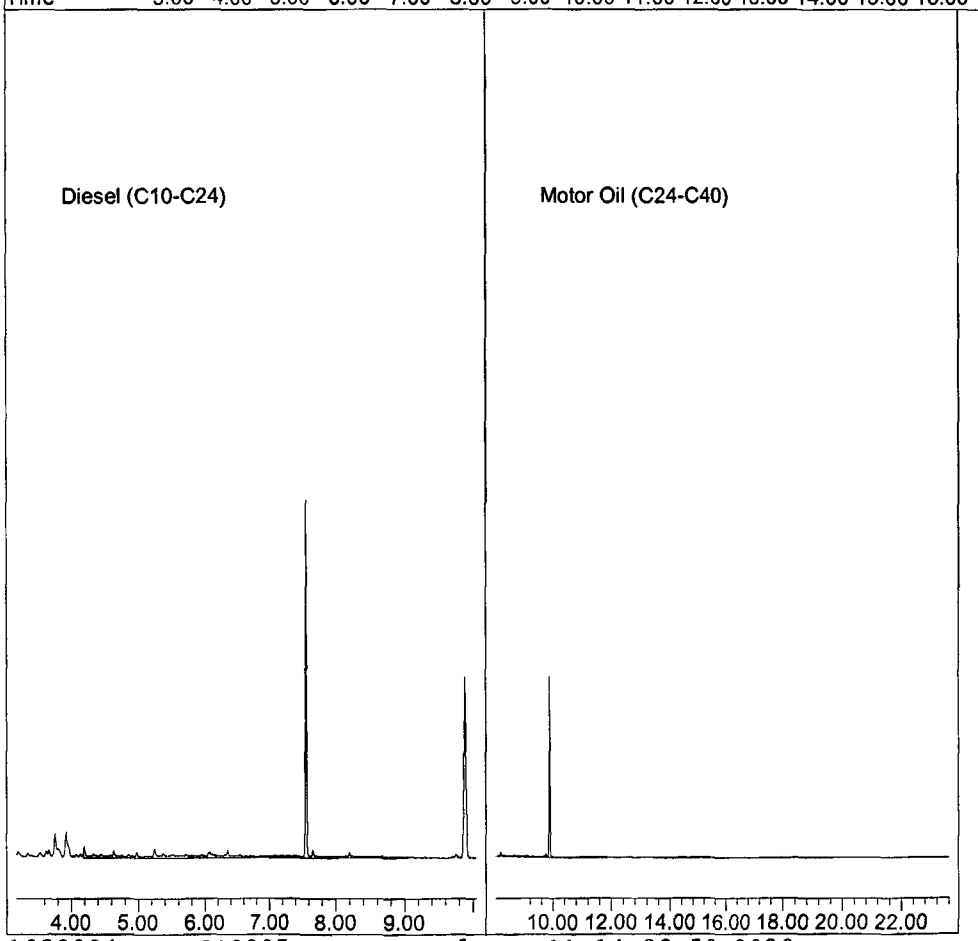
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	51277278	63.453 ppb
Surrogate Spike 75.000	Recovery =		84.60%
4) SA Octacosane(S)	9.89	44633723	67.755 ppb
Surrogate Spike 75.000	Recovery =		90.34%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	71421013	109.112 ppb
2) HBTM Motor Oil (C24-C40)	15.82	17849322	36.847 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028004.D
Sample : BA20541W10 5/800





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201028\1028005.D Vial: 5
Acq On : 10-28-20 14:24:31 Operator:
Sample : BA20542W10 5/800 Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 28 14:14 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

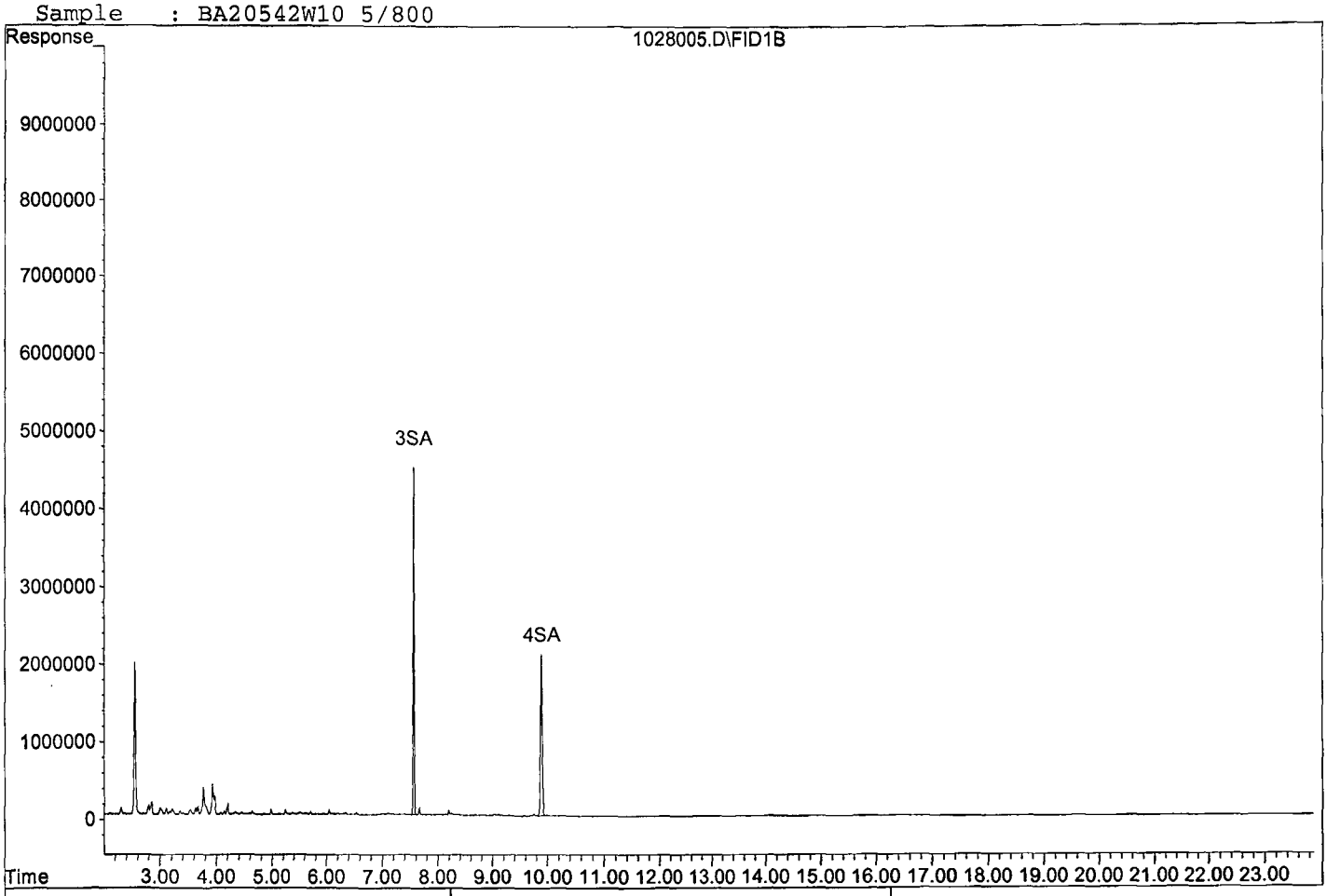
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

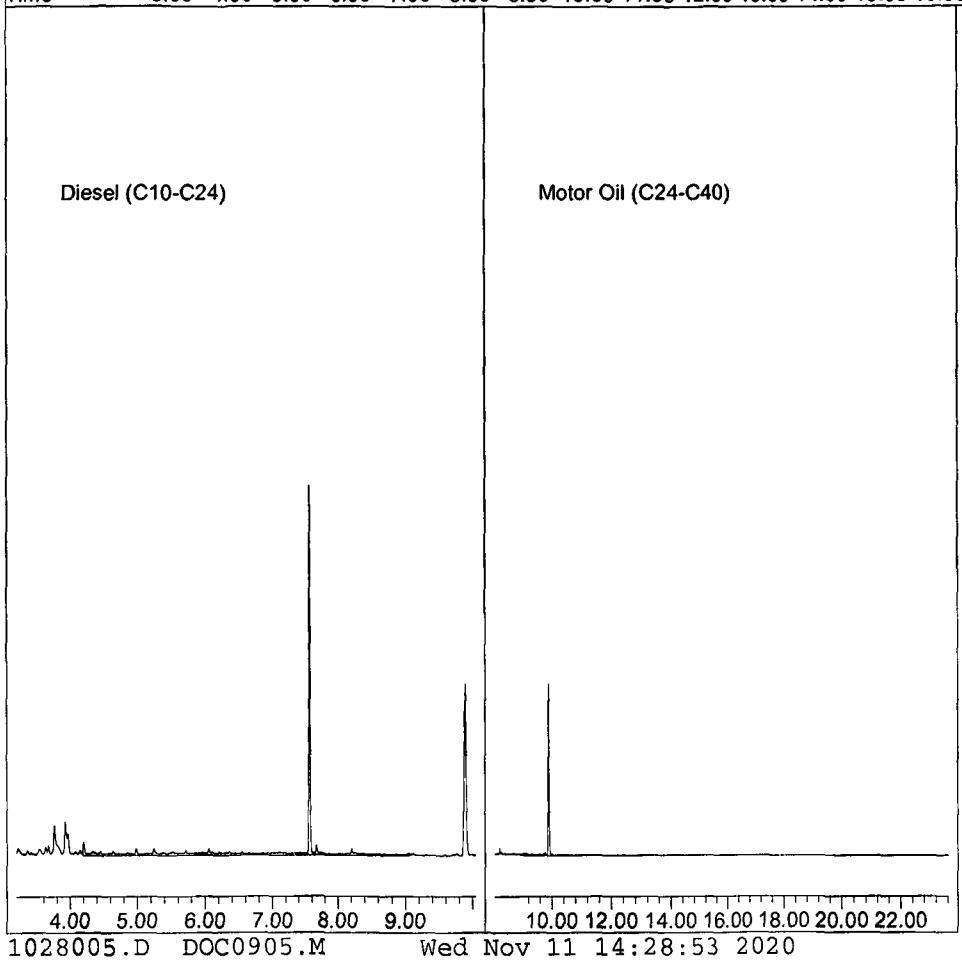
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	52866940	65.420 ppb
Surrogate Spike 75.000	Recovery =		87.23%
4) SA Octacosane(S)	9.90	45722144	69.407 ppb
Surrogate Spike 75.000	Recovery =		92.54%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	73121226	111.575 ppb
2) HBTM Motor Oil (C24-C40)	15.82	27254822	56.264 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028005.D
Sample : BA20542W10 5/800





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201028\1028006.D Vial: 6
Acq On : 10-28-20 14:52:37 Operator:
Sample : BA20544W16 5/800 Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 28 14:17 2020 Quant Results File: DOC0905.RES

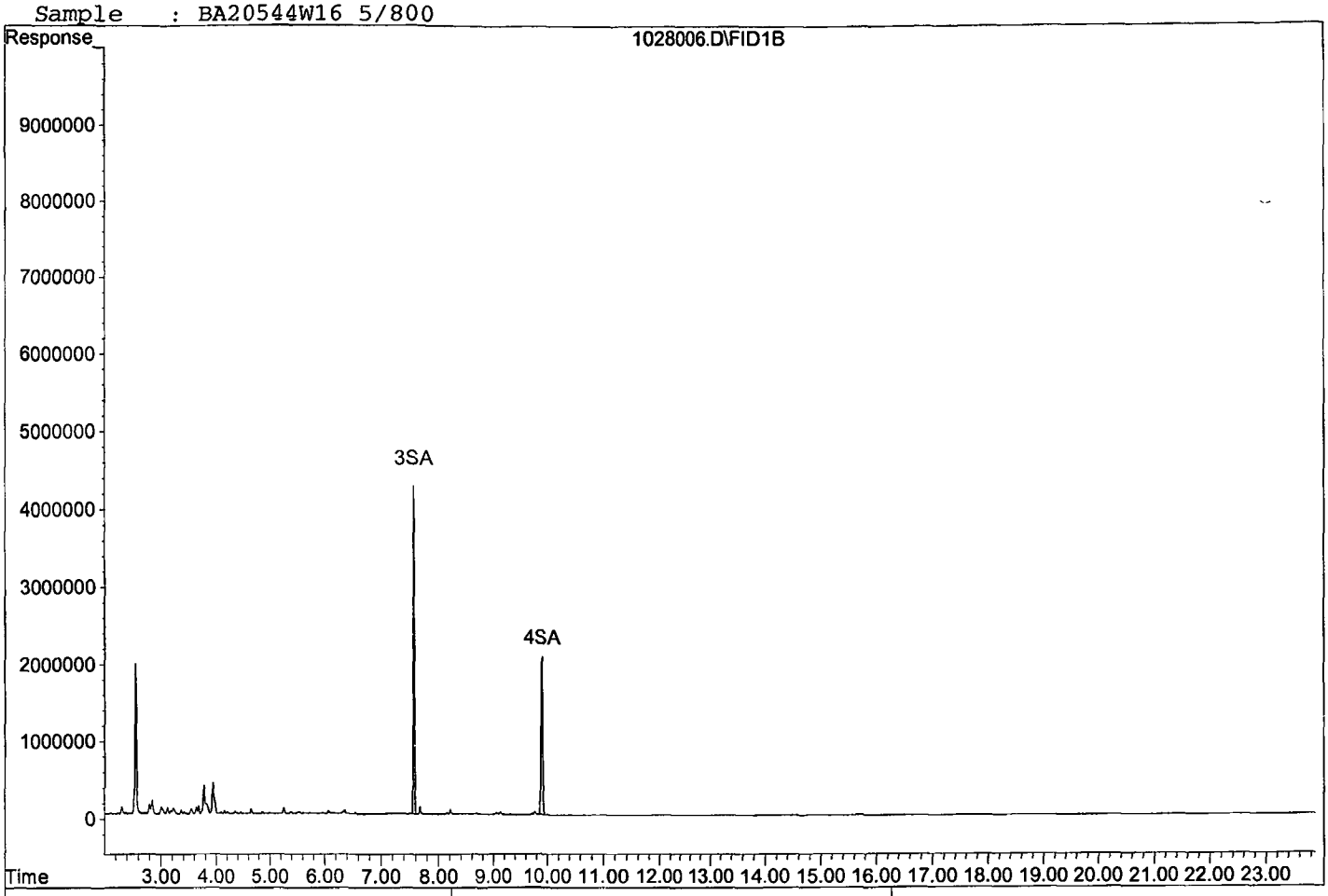
Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

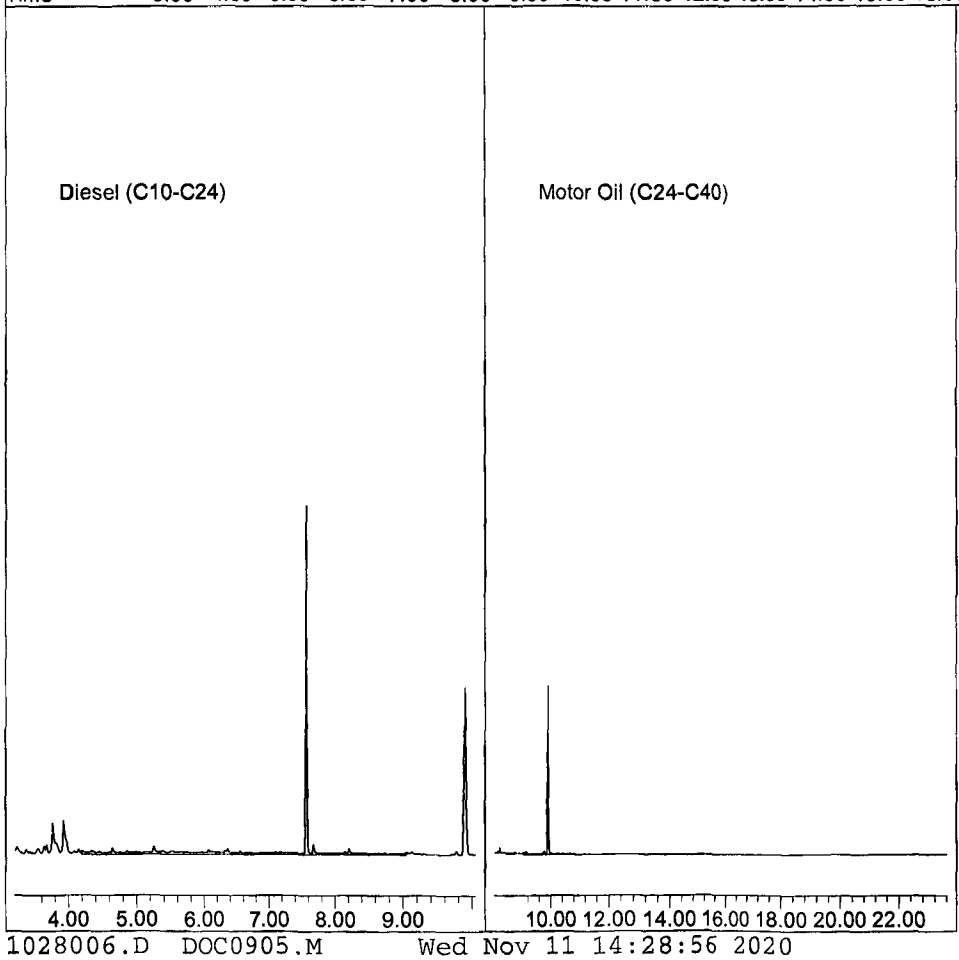
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	51371067	63.569 ppb
Surrogate Spike 75.000	Recovery =		84.76%
4) SA Octacosane(S)	9.90	44508435	67.565 ppb
Surrogate Spike 75.000	Recovery =		90.09%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	68768922	105.269 ppb
2) HBTM Motor Oil (C24-C40)	15.82	19772415	40.817 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028006.D
Sample : BA20544W16 5/800





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\201028\1028002.D Vial: 2
Acq On : 10-28-20 13:00:12 Operator:
Sample : 201026A BLK 5/800 Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 28 14:01 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

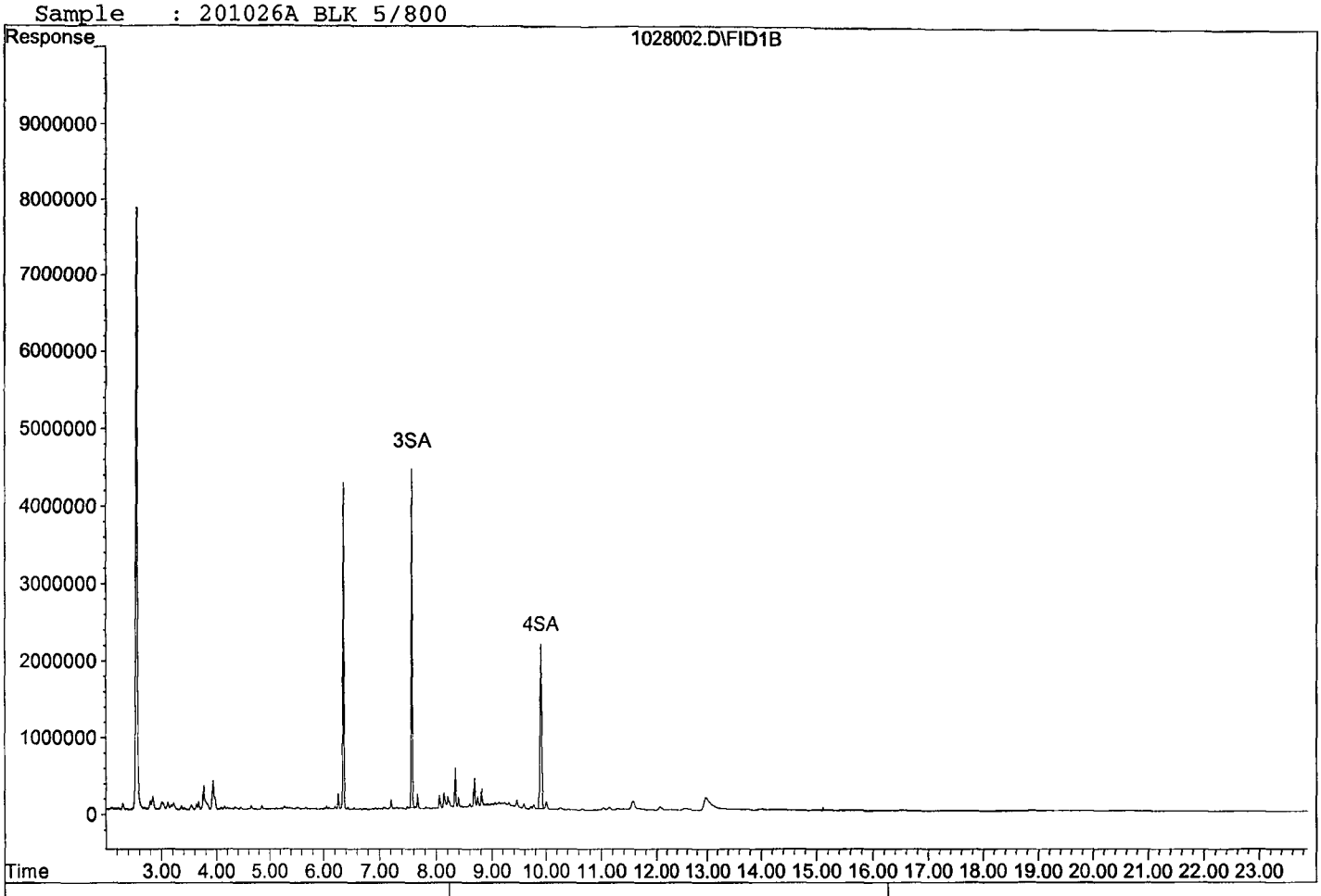
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

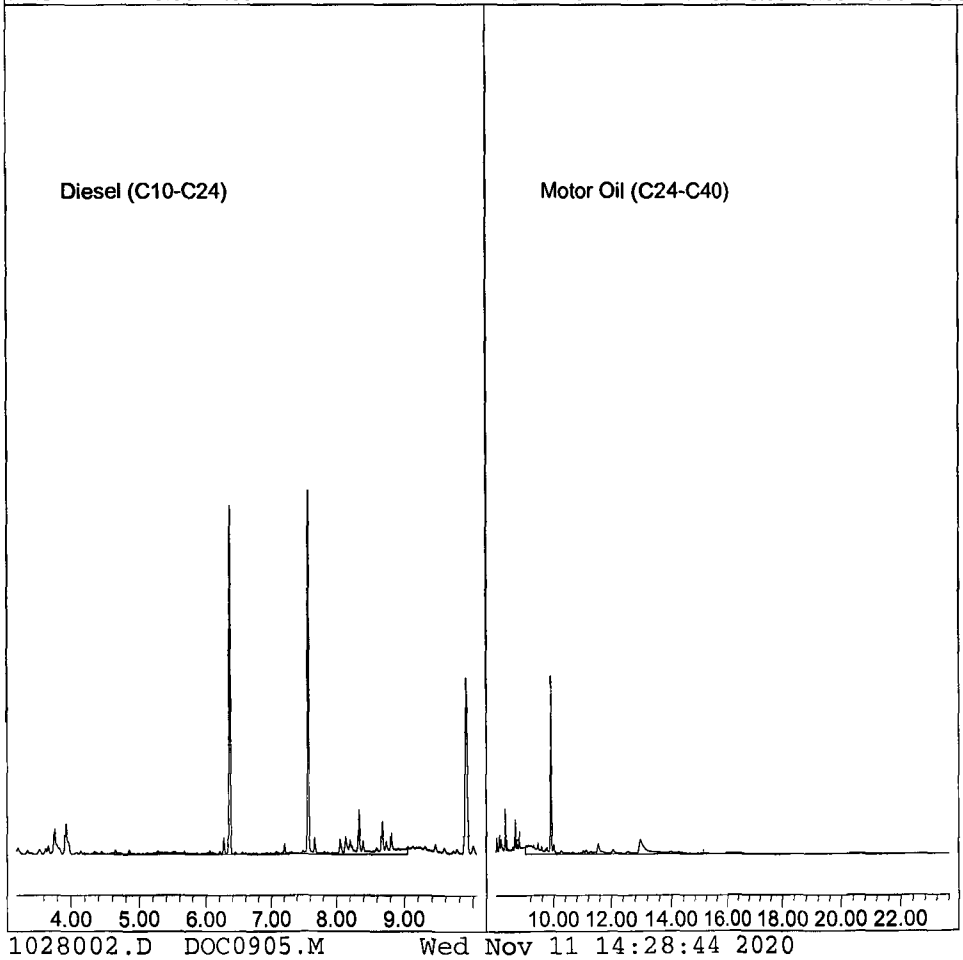
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	52705099	65.220 ppb
Surrogate Spike 75.000	Recovery =		86.96%
4) SA Octacosane(S)	9.90	45497445	69.066 ppb
Surrogate Spike 75.000	Recovery =		92.09%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	143664056	213.792 ppb
2) HBTM Motor Oil (C24-C40)	15.82	133121688	274.810 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028002.D
Sample : 201026A BLK 5/800





1028002.D DOC0905.M Wed Nov 11 14:28:44 2020

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028007.D Vial: 7
Acq On : 10-28-20 15:20:44 Operator:
Sample : 201026A LCS-1 5/800 Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 29 15:07 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

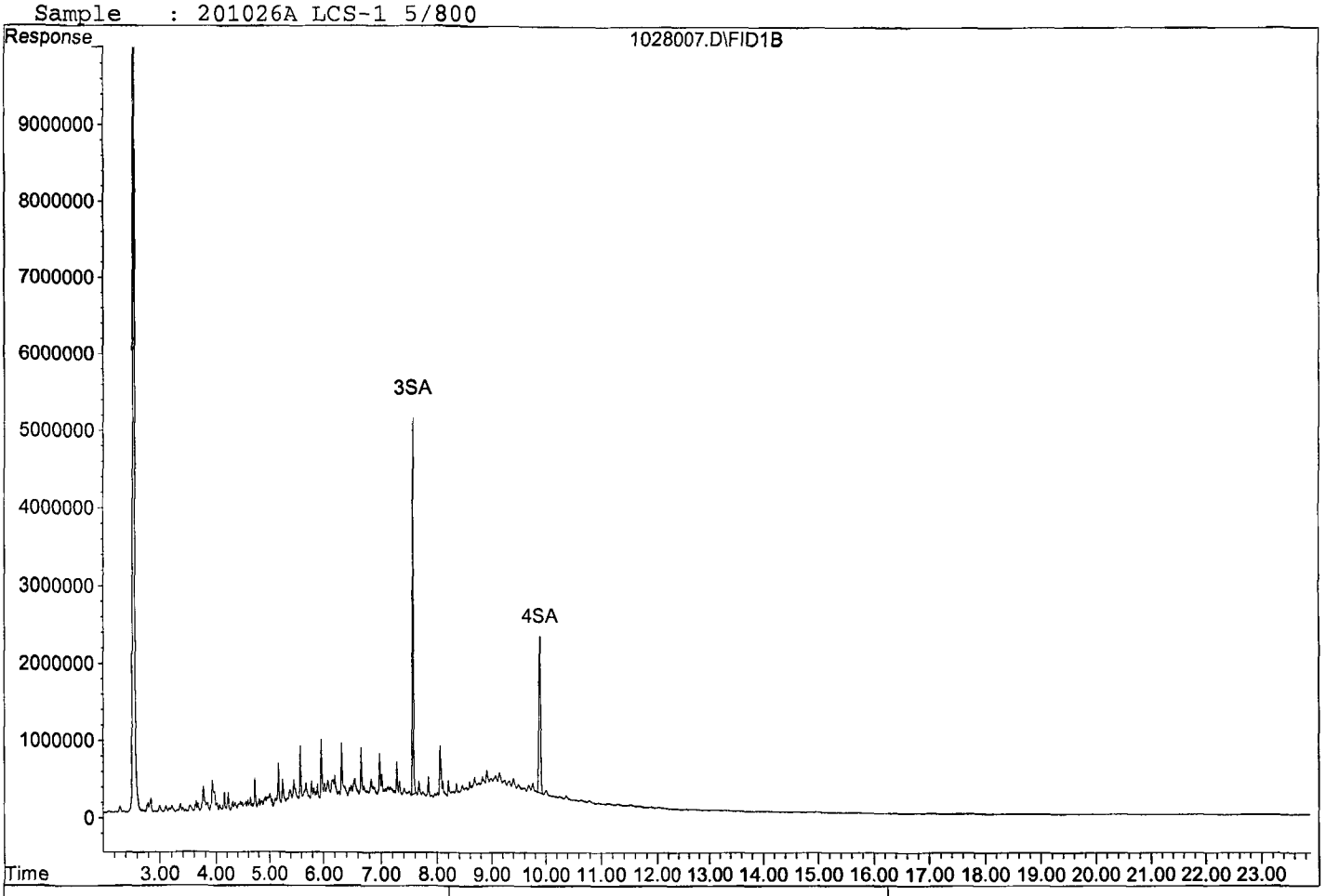
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

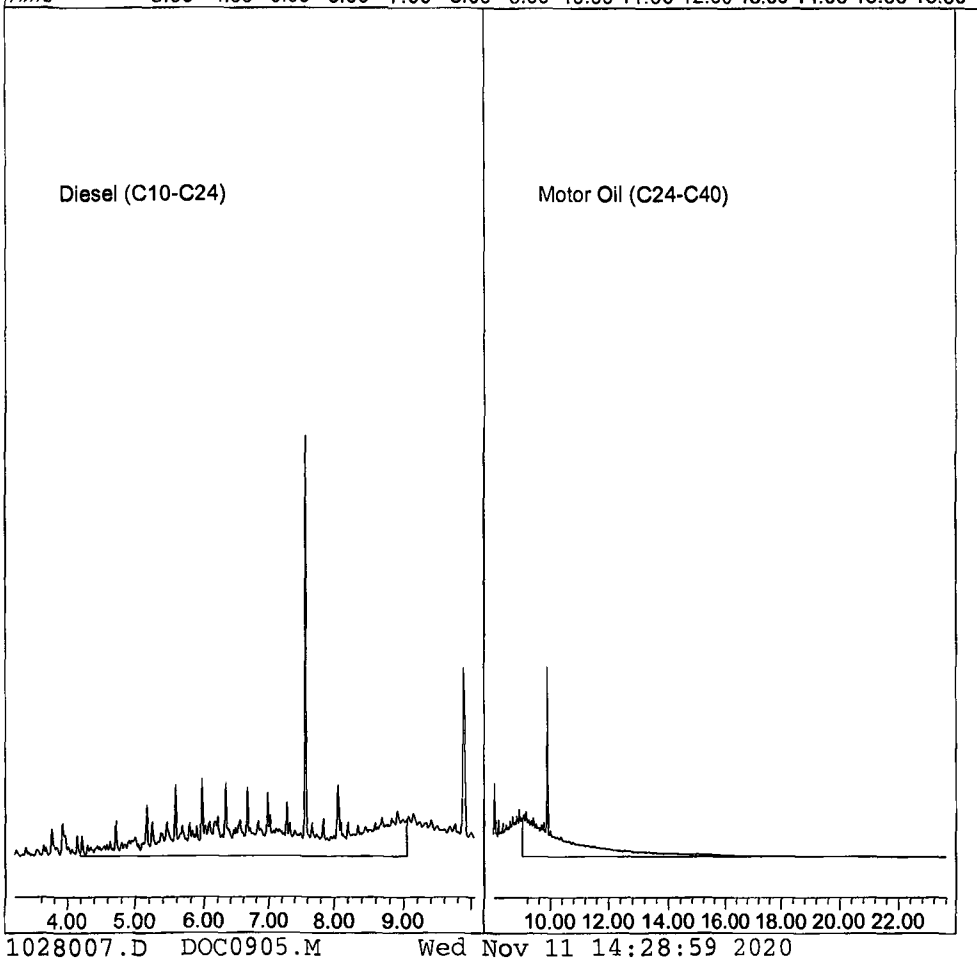
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	58086314	71.879 ppb
Surrogate Spike 75.000	Recovery =		95.84%
4) SA Octacosane(S)	9.89	45165040	68.561 ppb
Surrogate Spike 75.000	Recovery =		91.41%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	800672107	1165.796 ppb
2) HBTM Motor Oil (C24-C40)	15.82	544846227	1124.756 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028007.D
Sample : 201026A LCS-1 5/800





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028008.D Vial: 8
Acq On : 10-28-20 15:48:52 Operator:
Sample : 201026A LCSD-1 5/800 Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 29 15:07 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

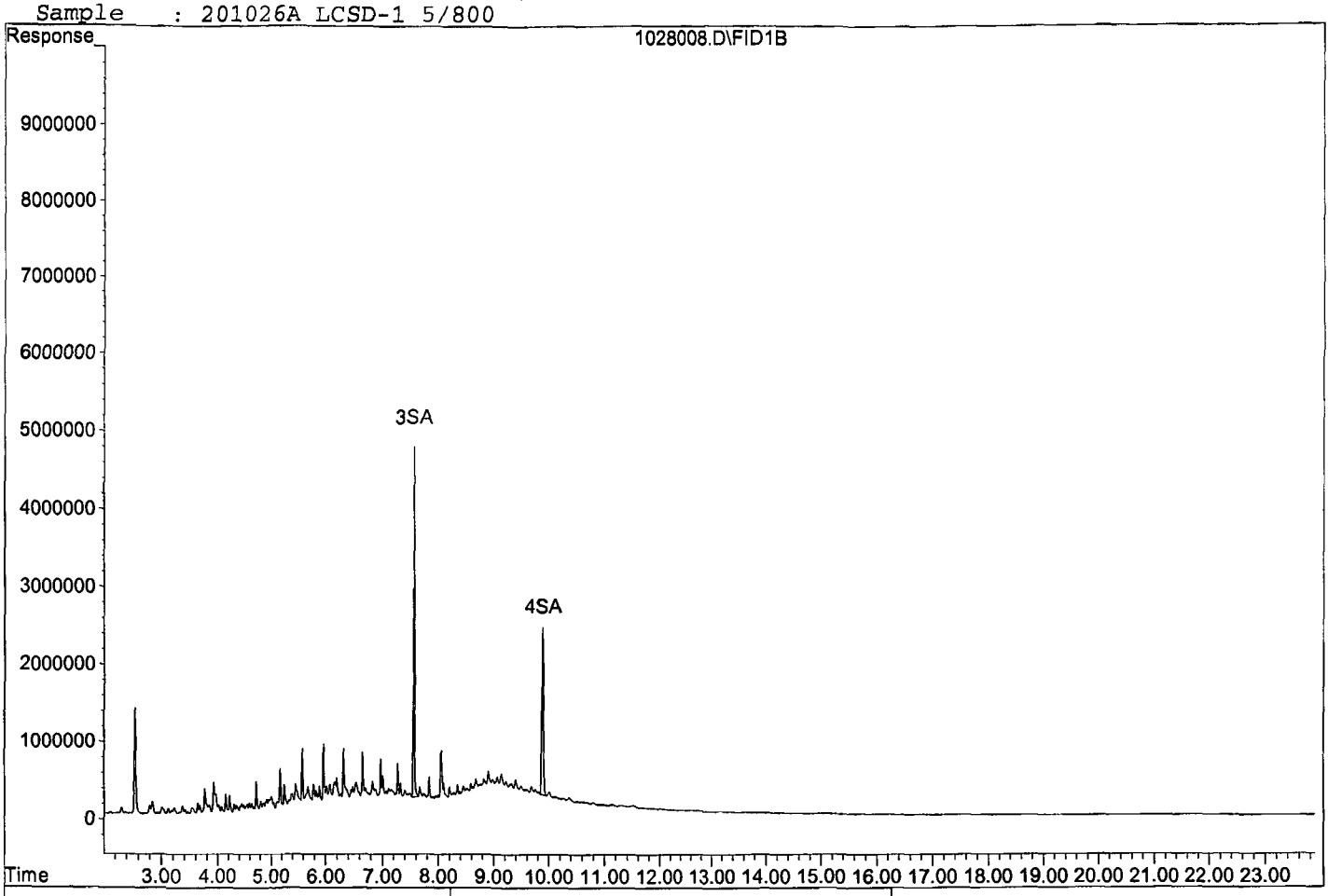
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

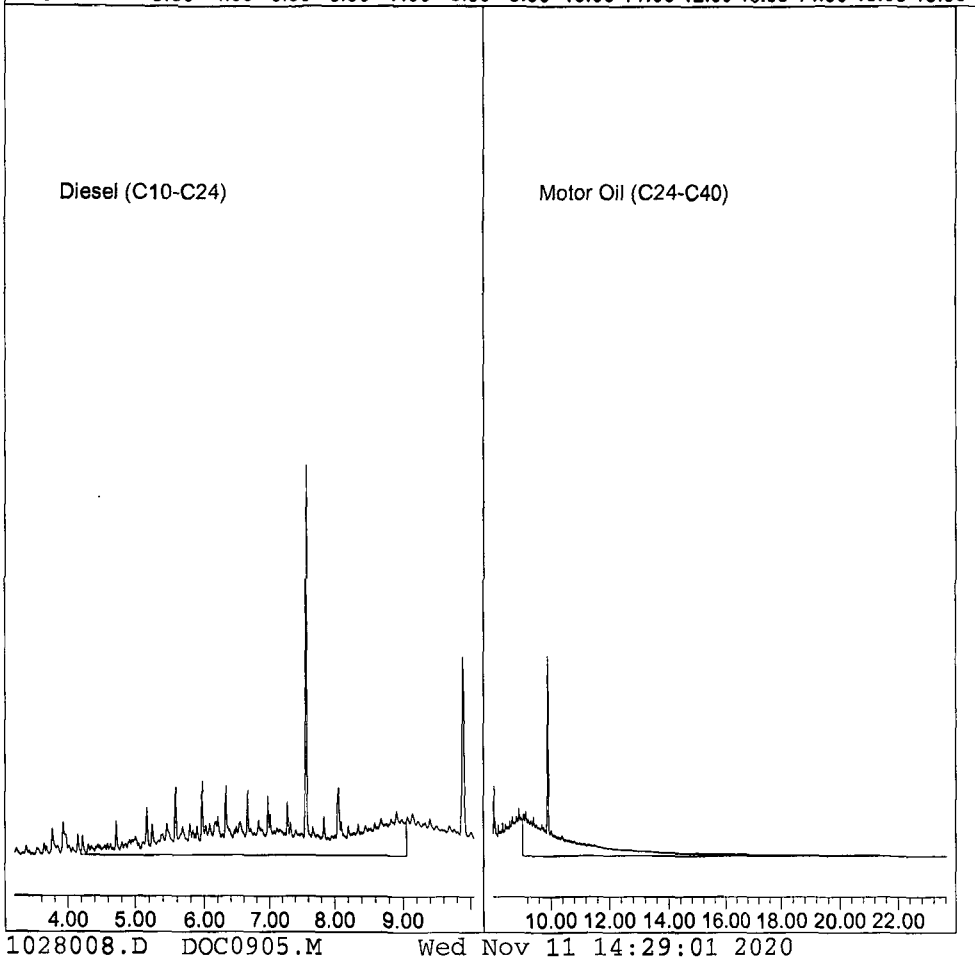
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.57	58198035	72.017	ppb
Surrogate Spike 75.000	Recovery =		96.02%	
4) SA Octacosane(S)	9.89	45067629	68.414	ppb
Surrogate Spike 75.000	Recovery =		91.22%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.62	772134596	1124.446	ppb
2) HBTM Motor Oil (C24-C40)	15.82	533634441	1101.611	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028008.D
Sample : 201026A LCSD-1 5/800





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028009.D Vial: 9
Acq On : 10-28-20 16:16:59 Operator:
Sample : BA20539W29 MS-1 5/800 Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 29 15:07 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

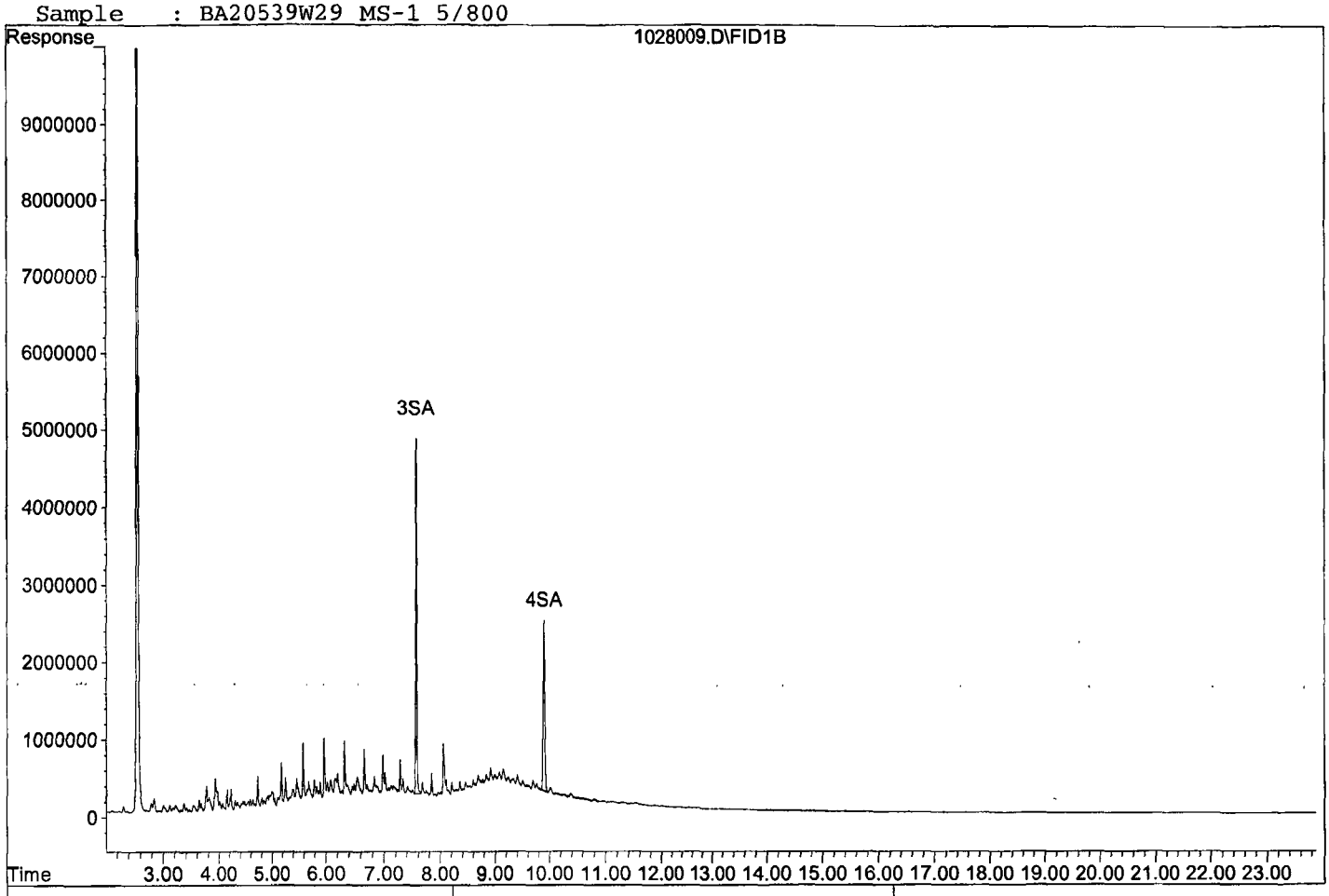
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

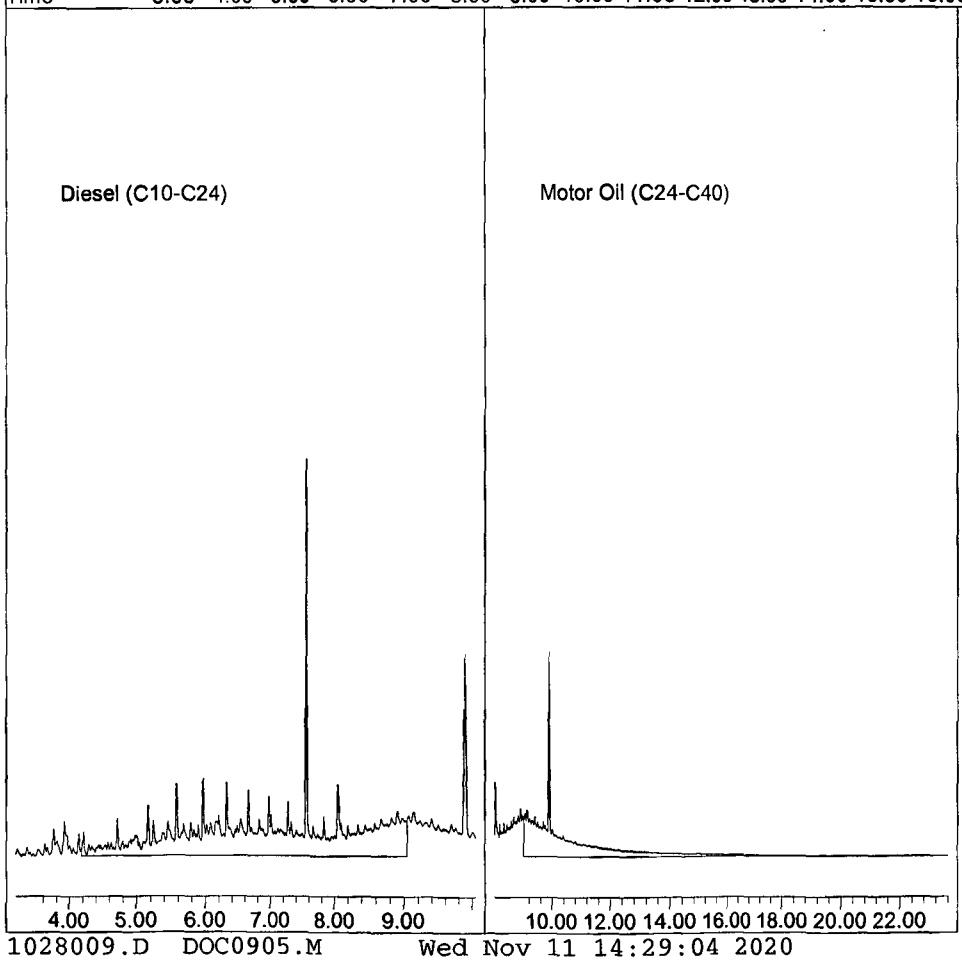
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.57	58906208	72.893	ppb
Surrogate Spike 75.000	Recovery =		97.19%	
4) SA Octacosane(S)	9.90	45438014	68.976	ppb
Surrogate Spike 75.000	Recovery =		91.97%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.62	806140687	1173.720	ppb
2) HBTM Motor Oil (C24-C40)	15.82	556819245	1149.473	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028009.D
Sample : BA20539W29 MS-1 5/800





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\201028\1028010.D Vial: 10
Acq On : 10-28-20 16:45:06 Operator:
Sample : BA20539W31 MSD-1 5/800 Inst : Apollo
Misc : water Multiplr: 6.25
IntFile : events.e
Quant Time: Oct 29 15:07 2020 Quant Results File: DOC0905.RES

Method : G:\APOLLO\DATA\201028\DOC0905.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Wed Oct 21 07:15:23 2020
Response via : Multiple Level Calibration

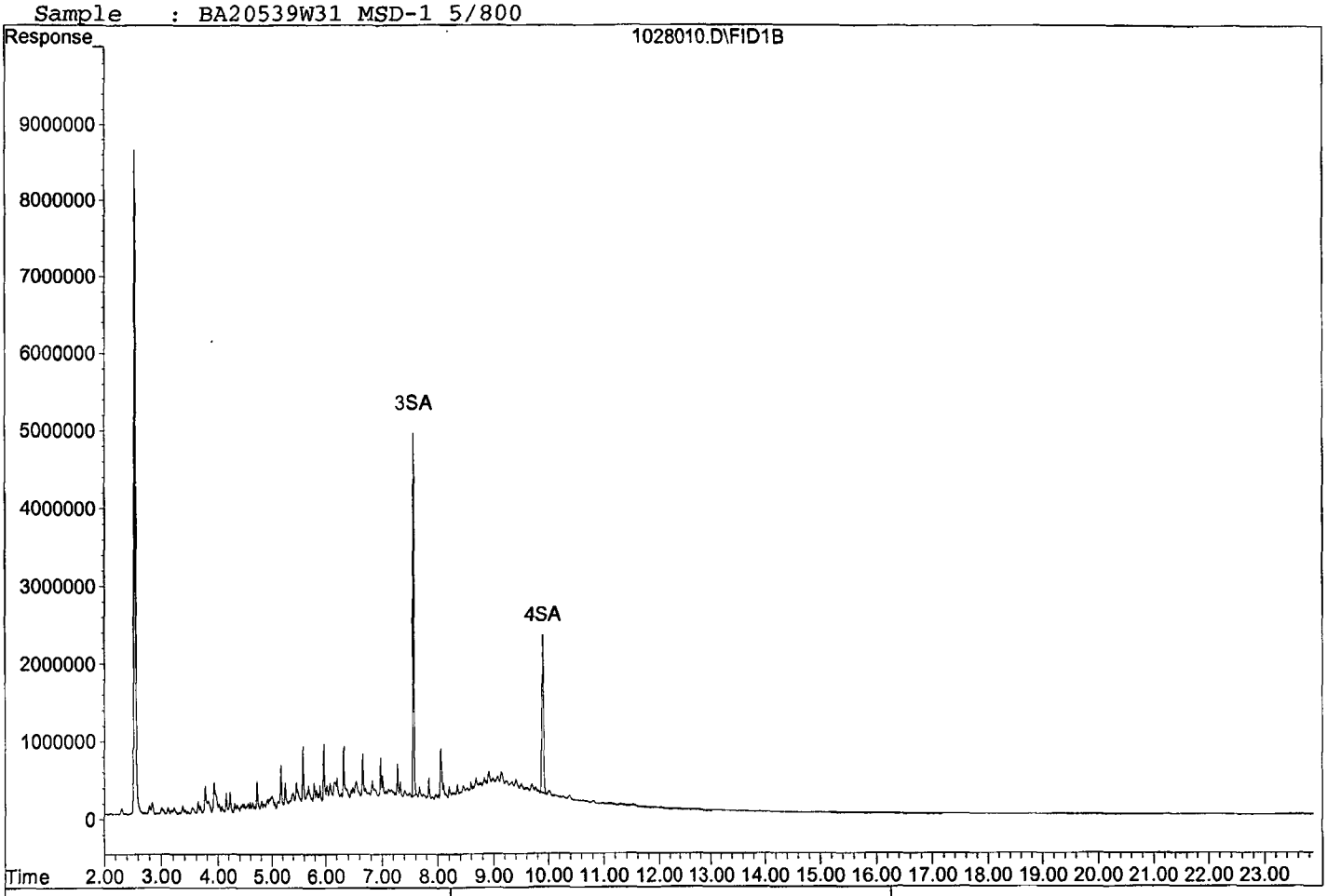
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

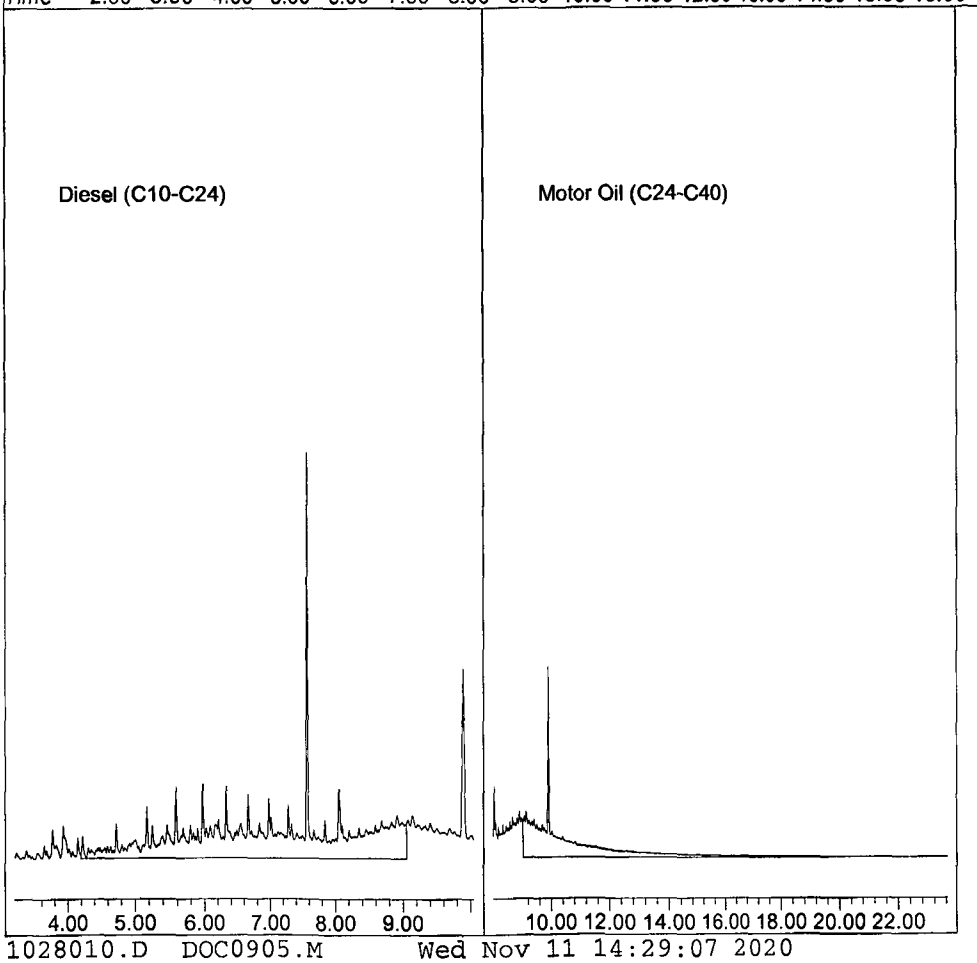
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.57	56492946	69.907 ppb
Surrogate Spike 75.000	Recovery =		93.21%
4) SA Octacosane(S)	9.90	44135015	66.998 ppb
Surrogate Spike 75.000	Recovery =		89.33%
Target Compounds			
1) HATM Diesel (C10-C24)	6.62	779818908	1135.580 ppb
2) HBTM Motor Oil (C24-C40)	15.82	541413353	1117.669 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\201028\1028010.D
Sample : BA20539W31 MSD-1 5/800





1028010.D DOC0905.M Wed Nov 11 14:29:07 2020

THC Surrogate

Prepared: 10/15/20

Expires: 10/15/20

Prepared By (Initials): SS

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	**CL15440-50426**	**10/15/21**	**06/30/25**	N/A	N/A	N/A	600

Diesel Motor Oil Mix

Prepared: 09/29/20

Expires: 09/29/21

Prepared By (Initials): SS

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	**A0154201-50382.50523,50524**	09/29/21	11/30/26	1.35 mL	2.7 mL	NA	25,000
Motor Oil Composite	Restek	31464	50,000	**A0155668-50516,50517,50520**	09/29/21	01/31/27	1.35 mL			25,000

Diesel / Motor Oil Calibration Curve

Prepared: 09/05/20

Expires: 08/05/21

Prepared By (Initials): SS

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 1	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil -2	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 3	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 4	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 5	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	Restek	Diesel / Motor Oil - 6	2,000	Perp'd: 09/05/20 A0154201-50381,50522,50526 A0155668-50515,50518,50519 CL15440-50421	08/05/21	06/30/25	100uL	100uL	N/A	2,000

Diesel / Motor Oil Calibration Standard

Prepared: 09/05/20

Expires: 08/05/21

Prepared By (Initials): SS

Methylene Chloride Lot No. 58059

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	A0154201-50381,50522,50526	08/11/21	11/30/26	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	A0155668-50515,50518,50519	08/11/21	01/31/27	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	CL15440-50421	08/05/21	06/30/25	1666uL			100

_LIQ005

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	201026A	Extraction Method	LIQ005	Units	mL

Spiked ID 1	Diesel Motor Oil Mix 9-29-20 9-29-21		Surrogate ID 1	THC Surrogate 10-15-20 10-15-21	
Spiked ID 2	Decanoic 1000ug/mL Acid Solution		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	yes	
Spiked ID 7			Ext. Start Time:	10/26/20 14:30	
Spiked ID 8			Ext. End Time:	10/27/20 8:30	
			GC Requires Extract By:		

pH1	2	10/26/20 12:30	Water Bath Temp 1 °C	36/34.5 WB1 °C
pH2			Water Bath Temp 2 °C	35/38.1 WB2
pH3			Water Bath Temp 3 °C	34/33.5 WB3 °C

Spiked By: DL **Date** 10/26/20 **Witnessed By:** RP **Date** 10/26/20

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	201026A Blk				0.1	1 equip	800 E-WB2 E-HP26	5	2	10/26/20 12:45	
2	201026A LCS-1		0.04	1	0.1	1 equip	800 E-WB1 E-HP7	5	2	10/26/20 12:45	
3	201026A LCSD-1		0.04	1	0.1	1 equip	800 E-WB1 E-HP28	5	2	10/26/20 12:45	
4	BA20507	BA20507W10			0.1	1 equip	800 E-WB3 E-HP9	5	2	10/26/20 12:45	93813
5	BA20508	BA20508W10			0.1	1 equip	800 E-WB2 E-HP30	5	2	10/26/20 12:45	93813
6	BA20509	BA20509W09			0.1	1 equip	800 E-WB1 E-HP16	5	2	10/26/20 12:45	93813
7	BA20539 MS-1	BA20539W29	0.040	1	0.1	1 equip	800 E-WB2 E-HP15	5	2	10/26/20 12:45	93818
8	BA20539 MSD-1	BA20539W31	0.040	1	0.1	1 equip	800 E-WB1 E-HP14	5	2	10/26/20 12:45	93818
9	BA20539	BA20539W23			0.1	1 equip	800 E-WB2 E-HP13	5	2	10/26/20 12:45	93818
10	BA20541	BA20541W10			0.1	1 equip	800 E-WB3 E-HP12	5	2	10/26/20 12:45	93818
11	BA20542	BA20542W10			0.1	1 equip	800 E-WB1 E-HP11	5	2	10/26/20 12:45	93818
12	BA20544	BA20544W16			0.1	1 equip	800 E-WB3 E-HP10	5	2	10/26/20 12:45	93818
13	BA20716	BA20716W13			0.1	1 equip	800 E-WB1 E-HP29	5	2	10/27/20 10:55	93873
14	BA20718	BA20718W16			0.1	1 equip	800 E-WB2 E-HP30	5	2	10/27/20 10:55	93873
15	BA20719	BA20719W11			0.1	1 equip	800 E-WB3 E-HP16	5	2	10/27/20 10:55	93873

Solvent and Lot#	
1+1 HCL Amber Liter	9-28-20
PH Strips	hc904495
Dicholormethane	60127
Filter Paper	400178
B. Sodium Sulfate	2019070279
Silica Gel (*)	050627t

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	SS
Date	10/27/20
Time	14:25
Refrigerator	HOBART

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	MP,DS

Modified	11/09/20 1:07:32 PM

Reviewed By: KY **Date** 11/09/20

Injection Log

Directory: G:\APOLLO\DATA\200905\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	7	905007.D	1	Diesel Motor Oil-1 9/5/20	Water	9-5-20 17:04:35
2	8	905008.D	1	Diesel Motor Oil-2 9/5/20	Water	9-5-20 17:32:40
3	9	905009.D	1	Diesel Motor Oil-3 9/5/20	Water	9-5-20 18:00:45
4	10	905010.D	1	Diesel Motor Oil-4 9/5/20	Water	9-5-20 18:28:54
5	11	905011.D	1	Diesel Motor Oil-5 9/5/20	Water	9-5-20 18:56:54
6	12	905012.D	1	Diesel Motor Oil-6 9/5/20	Water	9-5-20 19:24:55
7	13	905013.D	1	Diesel Motor Oil-SS 7/21/20	Water	9-5-20 19:52:52
8	75	1019275.D	1	Diesel Motor Oil-CCV 10/8/20	Water	10-28-20 11:43:07
9	2	1028002.D	6.25	201026A BLK 5/800	water	10-28-20 13:00:12
10	3	1028003.D	6.25	BA20539W23 5/800	water	10-28-20 13:28:16
11	4	1028004.D	6.25	BA20541W10 5/800	water	10-28-20 13:56:24
12	5	1028005.D	6.25	BA20542W10 5/800	water	10-28-20 14:24:31
13	6	1028006.D	6.25	BA20544W16 5/800	water	10-28-20 14:52:37
14	7	1028007.D	6.25	201026A LCS-1 5/800	water	10-28-20 15:20:44
15	8	1028008.D	6.25	201026A LCSD-1 5/800	water	10-28-20 15:48:52
16	9	1028009.D	6.25	BA20539W29 MS-1 5/800	water	10-28-20 16:16:59
17	10	1028010.D	6.25	BA20539W31 MSD-1 5/800	water	10-28-20 16:45:06
18	11	1028011.D	1	Diesel Motor Oil-CCV 10/8/20	water	10-28-20 17:13:07

ORGANICS

Calibration Data

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/09/20
Matrix: Instrument: Yoda
Initials: MA/MM

			1009Y003.D	1009Y004.D	1009Y005.D	1009Y006.D	1009Y007.D	1009Y008.D	1009Y009.D	1009Y010.D	1009Y011.D							
		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type	r^2	Q	MRF
1	I	1,4-dichlorobenzene-D4(IS)	ISTD															
2		1,4-Dioxane		0.4293	0.2691	0.3927	0.3603	0.3512	0.3539	0.4027	0.3108		0.36	14				
3	TM	n-Nitrosodimethylamine		0.4601	0.4992	0.6181	0.5207	0.5543	0.5902	0.6145	0.5794		0.55	10	TM			
4	TM	Pyridine		1.424	1.491	1.667	1.446	1.524	1.596	1.687	1.573		1.6	6.3	TM			
5	S	2-Fluorophenol (S)		1.455	1.483	1.631	1.495	1.498	1.551	1.635	1.654		1.6	5.1	S			
6	S	Phenol-D6 (S)		1.797	1.868	2.054	1.867	1.902	1.969	2.087	2.093		2.0	5.8	S			
7	*TM	Phenol		1.996	2.089	2.364	2.187	2.245	2.303	2.368	2.356		2.2	6.2	*TM			0.800
8	TM	Aniline			2.127	2.017	1.586	1.710	1.599	1.490			1.8	15	TM			
9	TM	Bis (2-chloroethyl) ether		0.8751	0.8838	0.9222	0.8720	0.8863	0.9151	0.9548	0.9270		0.90	3.3	TM			0.700
10	TM	2-Chlorophenol		1.797	1.850	1.900	1.784	1.819	1.894	1.944	1.920		1.9	3.2	TM			0.800
11	TM	1,3-DCB		1.959	2.030	2.076	1.862	1.999	1.964	2.061	1.983		2.0	3.4	TM			
12	*TM	1,4-DCB		2.009	2.071	2.127	1.902	2.014	2.011	2.092	2.038		2.0	3.3	*TM			
13	TM	Benzyl alcohol		0.9932	1.034	1.074	0.9800	1.024	1.055	1.089	1.088		1.0	4.0	TM			
14	TM	1,2-DCB		1.897	1.944	1.988	1.783	1.882	1.917	1.950	1.922		1.9	3.2	TM			
15	TM	2-Methylphenol		1.326	1.372	1.416	1.291	1.363	1.390	1.443	1.433		1.4	3.8	TM			0.700
16	TM	Bis (2-chloroisopropyl) ether		1.199	1.203	1.247	1.119	1.150	1.170	1.210	1.190		1.2	3.3	TM			0.010
17	TM	Acetophenone		2.283	2.370	2.477	2.256	2.375	2.440	2.512	2.533		2.4	4.3	TM			0.010
18	TM	3&4-Methylphenol		1.796	1.847	1.938	1.787	1.935	1.958	2.035	2.027		1.9	5.0	TM			0.600
19	**TM	n-Nitrosodi-n-propylamine		1.157	1.201	1.268	1.164	1.194	1.229	1.262	1.219		1.2	3.4	**TM			0.500
20	TM	Hexachloroethane		0.6621	0.7138	0.7479	0.6836	0.7204	0.7221	0.7537	0.7274		0.72	4.3	TM			0.300
21	I	Napthalene-D8(IS)	ISTD															
22	S	Nitrobenzene-D5(S)		0.3767	0.4074	0.4318	0.4120	0.4200	0.4234	0.4403	0.4357		0.42	4.8	S			
23	TM	Nitrobenzene		0.4108	0.4279	0.4399	0.4112	0.4365	0.4323	0.4523	0.4361		0.43	3.3	TM			0.200
24	TM	Isophorone		0.6918	0.7326	0.7384	0.7019	0.7582	0.7470	0.7728	0.7603		0.74	3.9	TM			0.400
25	*TM	2-Nitrophenol		0.2358	0.2392	0.2587	0.2505	0.2695	0.2709	0.2804	0.2707		0.26	6.3	*TM			0.100
26	TM	2,4-Dimethylphenol		0.3810	0.3932	0.4195	0.3865	0.4122	0.4134	0.4182	0.4186		0.41	3.9	TM			0.200
27	TML	Benzoic acid			0.1193	0.1498	0.2422	0.2790	0.2926	0.2859			0.23	33	TM	0.993		
28	TM	Bis (2-chloroethoxy) methane		0.4454	0.4740	0.4680	0.4452	0.4729	0.4766	0.4874	0.4781		0.47	3.3	TM			0.300
29	*TM	2,4-Dichlorophenol		0.3839	0.3979	0.4018	0.3824	0.4047	0.4130	0.4248	0.4176		0.40	3.8	*TM			0.200
30	TM	1,2,4-Trichlorobenzene		0.4381	0.4478	0.4551	0.4234	0.4545	0.4539	0.4605	0.4619		0.45	2.9	TM			
31	TM	3,4-Dimethylphenol		0.5549	0.5582	0.5619	0.5484	0.5620	0.5782	0.5937	0.5729		0.57	2.6	TM			
32	TM	Naphthalene		1.272	1.316	1.315	1.246	1.324	1.312	1.367	1.341		1.3	2.9	TM			0.700
33	TM	4-Chloroaniline		0.5356	0.5604	0.5691	0.5429	0.5561	0.5720	0.5577	0.5208		0.55	3.2	TM			0.010
34	TM	2,6-Dichlorophenol		0.3741	0.3930	0.3912	0.3802	0.3944	0.4109	0.4193	0.4162		0.40	4.2	TM			
35	TM	Hexachloropropene		0.2941	0.3053	0.3231	0.3090	0.3436	0.3393	0.3505	0.3515		0.33	6.8	TM			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/09/20
Matrix: Instrument: Yoda Initials:

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q	
36	*TM	Hexachlorobutadiene		0.2686	0.2726	0.2757	0.2652	0.2782	0.2804	0.2850	0.2824		0.28	2.5	*TM			0.010
37	TM	Caprolactum		0.1172	0.1242	0.1338	0.1295	0.1320	0.1375	0.1387	0.1377		0.13	5.7	TM			0.010
38	*TM	4-Chloro-3-methylphenol		0.3876	0.4049	0.4120	0.3888	0.4162	0.4246	0.4340	0.4291		0.41	4.2	*TM			0.200
39	TM	2-Methylnaphthalene		0.8441	0.8754	0.8763	0.8333	0.8987	0.8935	0.9456	0.9148		0.89	4.1	TM			0.400
40	TM	1-Methylnaphthalene		0.8711	0.9149	0.9056	0.8746	0.9322	0.9362	0.9541	0.9452		0.92	3.4	TM			
41	I	Acenaphthene-D10(IS)	ISTD															
42	**TM	Hexachlorocyclopentadiene		0.4926	0.5473	0.5729	0.5151	0.5557	0.6434	0.4714	0.6605		0.56	12	**TM			0.050
43	TM	1,2,4,5-Tetrachlorobenzene		0.7596	0.7959	0.7832	0.7668	0.8143	0.8333	0.8326	0.8706		0.81	4.7	TM			0.010
44	*TM	2,4,6-Trichlorophenol		0.4985	0.5116	0.5220	0.5159	0.5513	0.5494	0.5668	0.5702		0.54	5.1	*TM			0.200
45	TM	2,4,5-Trichlorophenol		0.5301	0.5339	0.5572	0.5423	0.5568	0.5860	0.5824	0.6014		0.56	4.7	TM			0.200
46	S	2-Fluorobiphenyl(S)		1.653	1.647	1.683	1.637	1.666	1.701	1.734	1.765		1.7	2.7	S			
47	TM	1,1'-Biphenyl		1.884	1.868	1.885	1.850	1.903	1.984	1.962	2.056		1.9	3.7	TM			0.010
48	TM	2-Chloronaphthalene		1.488	1.505	1.490	1.465	1.531	1.552	1.546	1.597		1.5	2.8	TM			0.800
49	TM	2-Nitroaniline		0.3404	0.3547	0.3797	0.3680	0.3869	0.3939	0.4013	0.4122		0.38	6.4	TM			0.010
50	TM	Dimethyl phthalate		1.778	1.792	1.808	1.739	1.813	1.845	1.896	1.896		1.8	3.0	TM			0.010
51	TM	2,6-DNT		0.3595	0.3691	0.3940	0.3898	0.4194	0.4362	0.4303	0.4376		0.40	7.6	TM			0.200
52	TM	Acenaphthylene		2.272	2.270	2.301	2.239	2.369	2.346	2.427	2.452		2.3	3.3	TM			0.900
53	TM	3-Nitroaniline		0.4354	0.4701	0.4891	0.4850	0.5162	0.5277	0.5306	0.5569		0.50	7.8	TM			0.010
54	*TM	Acenaphthene		1.513	1.515	1.526	1.475	1.601	1.634	1.562	1.583		1.6	3.4	*TM			0.900
55	**TML	2,4-Dinitrophenol				0.1026	0.1597	0.1980	0.2280	0.2394	0.2642		0.20	30	**TM	0.993		0.010
56	**TM	4-Nitrophenol			0.2263	0.2559	0.2676	0.2931	0.3073	0.3053	0.3217		0.28	12	**TM			0.010
57	TM	Dibenzofuran		2.146	2.151	2.189	2.113	2.192	2.258	2.260	2.368		2.2	3.7	TM			0.800
58	TM	2,4-DNT		0.4874	0.5258	0.5675	0.5631	0.5872	0.6207	0.6214	0.6309		0.58	8.8	TM			0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.4226	0.4326	0.4568	0.4521	0.4802	0.4931	0.5021	0.5103		0.47	6.9	TM			0.010
60	TM	Diethyl phthalate		1.717	1.750	1.774	1.700	1.785	1.821	1.822	1.856		1.8	3.0	TM			0.010
61	TM	4-Chlorophenyl phenyl ether		0.9642	0.9787	1.003	0.9777	1.022	1.052	1.077	1.128		1.0	5.6	TM			0.400
62	TM	Fluorene		1.723	1.752	1.766	1.748	1.849	1.876	1.915	1.993		1.8	5.3	TM			0.900
63	TM	4-Nitroaniline		0.3881	0.4161	0.4217	0.4161	0.4232	0.4331	0.4350	0.4238		0.42	3.5	TM			0.010
64	S	2,4,6-Tribromophenol(S)		0.2499	0.2577	0.2753	0.2746	0.2881	0.2924	0.3250	0.3519		0.29	12	S			
65	I	Phenanthrene-D10(IS)	ISTD															
66	TM	4,6-Dinitro-2-methylphenol				0.1512	0.1746	0.1987	0.2095	0.2163	0.2173		0.19	14	TM			0.010
67	TM	Diphenyl amine		0.7260	0.7313	0.7409	0.7221	0.7714	0.7734	0.7988	0.7939		0.76	4.1	TM			
68	*TM	n-Nitrosodiphenylamine		0.7260	0.7313	0.7409	0.7221	0.7714	0.7734	0.7988	0.7939		0.76	4.1	*TM			0.010
69	TM	1,2-Diphenylhydrazine		0.7088	0.7296	0.7363	0.7005	0.7390	0.7439	0.7625	0.7442		0.73	2.7	TM			
70	TM	4-Bromophenyl phenyl ether		0.2867	0.2841	0.2901	0.2822	0.3029	0.3102	0.3219	0.3181		0.30	5.3	TM			0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/09/20
Matrix: Instrument: Yoda Initials:

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q	
71	TM	Hexachlorobenzene		0.3059	0.3129	0.3147	0.2992	0.3297	0.3289	0.3449	0.3390		0.32	5.0	TM			0.100
72	TM	Atrazine		0.2523	0.2730	0.2788	0.2709	0.2853	0.2901	0.2889	0.2868		0.28	4.6	TM			0.010
73	*TM	Pentachlorophenol			0.1760	0.2025	0.2048	0.2235	0.2348	0.2427	0.2490		0.22	12	*TM			0.050
74	TM	Phenanthrene		1.345	1.323	1.369	1.279	1.372	1.374	1.412	1.391		1.4	3.1	TM			0.700
75	TM	Anthracene		1.365	1.358	1.392	1.361	1.421	1.466	1.469	1.460		1.4	3.5	TM			0.700
76	TM	Carbazol		1.228	1.242	1.281	1.206	1.271	1.283	1.350	1.297		1.3	3.5	TM			0.010
77	TM	Di-n-butylphthalate		1.399	1.446	1.519	1.477	1.547	1.637	1.617	1.650		1.5	6.1	TM			0.010
78	*TM	Fluoranthene		1.492	1.509	1.526	1.496	1.593	1.632	1.639	1.676		1.6	4.7	*TM			0.600
79	I	Chrysene-D12(IS)	ISTD															
80	TM	Benzidine		0.3875	0.4488	0.4755	0.4544	0.4661	0.4881	0.4328	0.4334		0.45	7.0	TM			
81	TM	Pyrene		1.580	1.594	1.611	1.508	1.589	1.612	1.662	1.608		1.6	2.7	TM			0.600
82	S	Terphenyl-D14(S)		1.093	1.106	1.133	1.100	1.146	1.167	1.246	1.233		1.2	5.1	S			
83	TM	Butyl benzylphthalate		0.5836	0.6098	0.6584	0.6252	0.6819	0.6870	0.7124	0.7012		0.66	7.1	TM			0.010
84	TM	3,3'-Dichlorobenzidine		0.4764	0.5012	0.5358	0.5200	0.5374	0.5593	0.5590	0.5373		0.53	5.4	TM			0.010
85	TM	Benz (a) anthracene		1.520	1.560	1.589	1.516	1.620	1.658	1.688	1.703		1.6	4.5	TM			0.800
86	TM	Bis (2-ethylhexyl) phthalate		0.8281	0.8665	0.9124	0.8825	0.9508	0.9571	0.9995	0.9787		0.92	6.5	TM			0.010
87	TM	Chrysene		1.533	1.530	1.547	1.443	1.537	1.539	1.633	1.608		1.5	3.7	TM			0.700
88	*TM	Di-n-octylphthalate		1.194	1.328	1.474	1.479	1.579	1.648	1.693	1.683		1.5	12	*TM			0.010
89	I	Perylene-D12(IS)	ISTD															
90	TM	Benzo (b) fluoranthene		1.322	1.387	1.529	1.433	1.628	1.753	1.644	1.720		1.6	10	TM			0.700
91	TM	Benzo (k) fluoranthene		1.522	1.563	1.485	1.475	1.477	1.420	1.570	1.516		1.5	3.3	TM			0.700
92	*TM	Benzo (a) pyrene	1.198	1.279	1.346	1.442	1.386	1.499	1.524	1.536	1.563		1.4	8.9	*TM			0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.425	1.508	1.567	1.530	1.657	1.696	1.717	1.718		1.6	6.9	TM			0.500
94	TM	Dibenz (a,h) anthracene	1.199	1.284	1.331	1.382	1.359	1.465	1.487	1.513	1.542		1.4	8.2	TM			0.400
95	TM	Benzo (g,h,i) perylene		1.295	1.328	1.376	1.316	1.428	1.458	1.469	1.465		1.4	5.2	TM			0.500
96																		
97																		
98																		
99																		
100																		
101																		
102																		
103																		
104																		
105																		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y003.D Vial: 3
Acq On : 9 Oct 20 11:14 Operator: MA
Sample : 4ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:28:56 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	227533	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	901223	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	551168	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1043970	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1064432	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	1050083	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
6) Phenol-D6 (S)	0.00	99	0d	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
22) Nitrobenzene-D5(S)	0.00	82	0d	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
46) 2-Fluorobiphenyl(S)	0.00	172	0d	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
64) 2,4,6-Tribromophenol(S)	0.00	330	0d	0.00000 ppb	
Spiked Amount 200.000			Recovery =	0.000%	
82) Terphenyl-D14(S)	0.00	244	0d	0.00000 ppb	
Spiked Amount 100.000			Recovery =	0.000%	
Target Compounds					Qvalue
92) Benzo (a) pyrene	14.99	252	125828	3.28617 ppb	97
94) Dibenz (a,h) anthracene	16.77	278	125879	3.24970 ppb	96

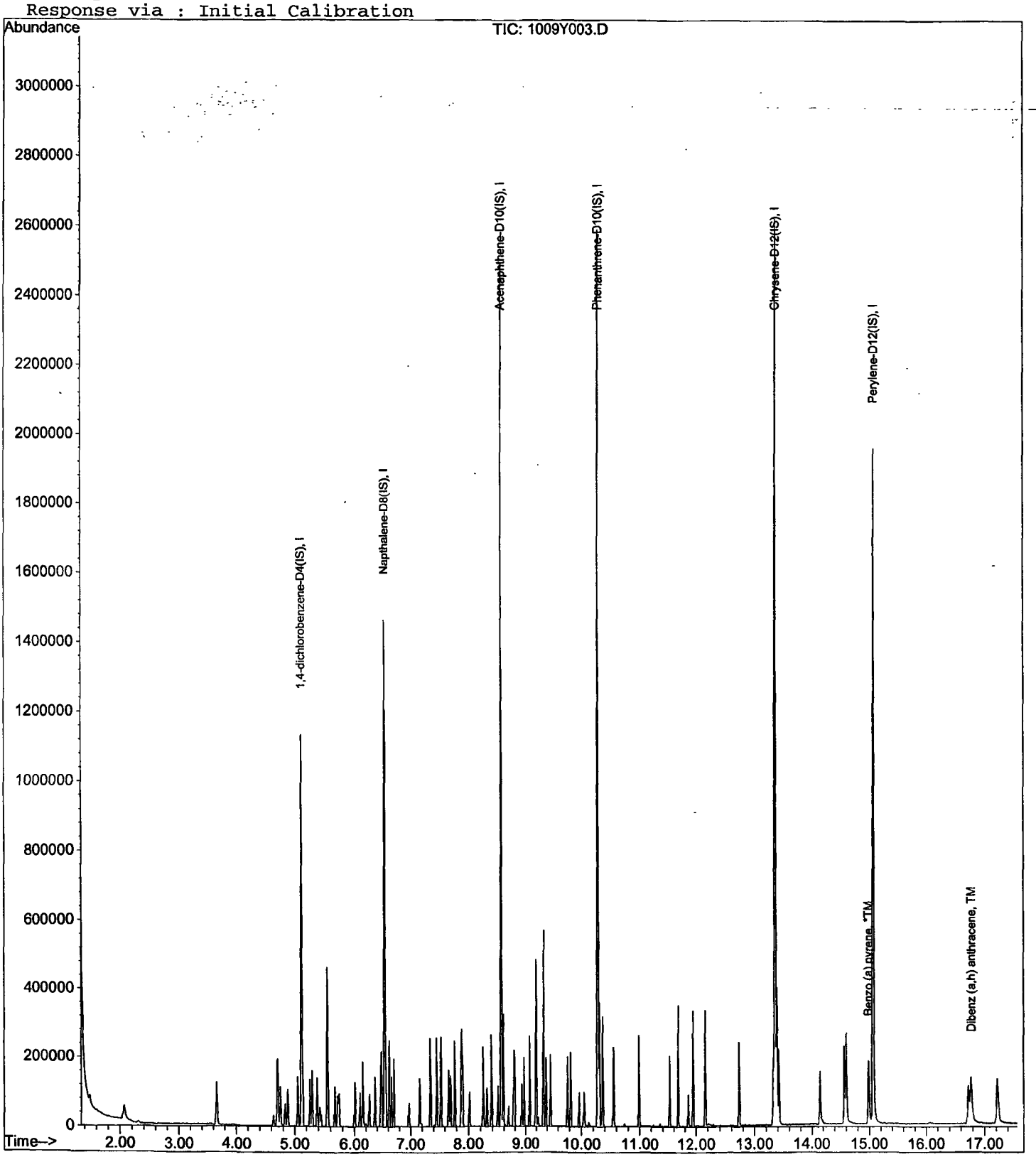
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y003.D Vial: 3
Acq On : 9 Oct 20 11:14 Operator: MA
Sample : 4ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:32 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y004.D Vial: 4
Acq On : 9 Oct 20 11:40 Operator: MA
Sample : 5ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	295573	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	1198634	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	717733	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1396730	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1400451	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	1378494	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.65	112	107548	9.79493 ppb	0.00
Spiked Amount 200.000			Recovery	= 4.898%	
6) Phenol-D6 (S)	4.69	99	132793	9.54853 ppb	-0.02
Spiked Amount 200.000			Recovery	= 4.775%	
22) Nitrobenzene-D5(S)	5.72	82	56448	4.47844 ppb	0.00
Spiked Amount 100.000			Recovery	= 4.478%	
46) 2-Fluorobiphenyl(S)	7.77	172	148324	4.95989 ppb	0.00
Spiked Amount 100.000			Recovery	= 4.960%	
64) 2,4,6-Tribromophenol(S)	9.46	330	44842	8.88855 ppb	-0.02
Spiked Amount 200.000			Recovery	= 4.445%	
82) Terphenyl-D14(S)	12.15	244	191253	4.79704 ppb	0.00
Spiked Amount 100.000			Recovery	= 4.797%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	1586	0.58537	88
3) n-Nitrosodimethylamine	2.04	42	17000	4.74480 ppb	88
4) Pyridine	2.06	79	52628	4.74569 ppb	100
7) Phenol	4.71	94	73745	4.41786 ppb	96
8) Aniline	4.75	93	74912	6.48908 ppb	100
9) Bis (2-chloroethyl) ether	4.82	63	32333	4.91887 ppb	93
10) 2-Chlorophenol	4.88	128	66407	4.92247 ppb	98
11) 1,3-DCB	5.05	146	72396	4.92865 ppb	96
12) 1,4-DCB	5.13	146	74215	4.97605 ppb	96
13) Benzyl alcohol	5.26	108	36696	4.98304 ppb	99
14) 1,2-DCB	5.30	146	70078	5.02008 ppb	97
15) 2-Methylphenol	5.38	107	48979	4.71409 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	44300	5.18894 ppb	96
17) Acetophenone	5.56	105	84332	5.12230 ppb	72
18) 3&4-Methylphenol	5.55	107	132686	10.04745 ppb	97
19) n-Nitrosodi-n-propylamine	5.56	70	42735	4.95123 ppb	96
20) Hexachloroethane	5.67	117	24461	4.63665 ppb	85
23) Nitrobenzene	5.74	77	61553	4.77890 ppb	97
24) Isophorone	6.00	82	103656	4.63891 ppb	94
25) 2-Nitrophenol	6.10	139	35327	4.48123 ppb	90
26) 2,4-Dimethylphenol	6.14	122	57085	4.80390 ppb	99
27) Benzoic acid	6.21	105	13240	6.32470 ppb	93
28) Bis (2-chloroethoxy) metha	6.26	93	66732	4.75525 ppb	97
29) 2,4-Dichlorophenol	6.36	162	57519	4.80776 ppb	98
30) 1,2,4-Trichlorobenzene	6.47	180	65647	4.84104 ppb	96
31) 3,4-Dimethylphenol	6.48	107	83137	4.94914 ppb	97
32) Naphthalene	6.55	128	190633	4.82985 ppb	99
33) 4-Chloroaniline	6.61	127	80253	5.17102 ppb	99
34) 2,6-Dichlorophenol	6.62	162	56054	4.70900 ppb	99
35) Hexachloropropene	6.65	213	44063	4.33691 ppb	94
36) Hexachlorobutadiene	6.70	225	40246	4.85135 ppb	97
37) Caprolactum	6.97	55	17565	4.41965 ppb	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y004.D Vial: 4
Acq On : 9 Oct 20 11:40 Operator: MA
Sample : 5ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.15	107	58070	4.81778 ppb		86
39)	2-Methylnaphthalene	7.34	142	126478	4.76950 ppb		99
40)	1-Methylnaphthalene	7.45	142	130512	4.78713 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	44192	6.59964 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.53	216	68146	4.75873 ppb		98
44)	2,4,6-Trichlorophenol	7.66	196	44724	4.91186 ppb		99
45)	2,4,5-Trichlorophenol	7.70	196	47561	4.90189 ppb		98
47)	1,1'-Biphenyl	7.89	154	169036	4.95293 ppb		98
48)	2-Chloronaphthalene	7.90	162	133473	4.96496 ppb		98
49)	2-Nitroaniline	8.02	65	30540	4.51608 ppb		99
50)	Dimethyl phthalate	8.24	163	159491	4.99723 ppb		100
51)	2,6-DNT	8.31	165	32251	4.37339 ppb		96
52)	Acenaphthylene	8.38	152	203875	4.96211 ppb		99
53)	3-Nitroaniline	8.02	138	39061	4.35954 ppb		97
54)	Acenaphthene	8.58	154	135729	5.12585 ppb		99
55)	2,4-Dinitrophenol	8.61	184	2676	14.40545 ppb	#	76
56)	4-Nitrophenol	8.68	65	16620	3.63593 ppb		100
57)	Dibenzofuran	8.78	168	192534	5.04183 ppb		97
58)	2,4-DNT	8.77	165	43731	4.32291 ppb		88
59)	2,3,4,6-Tetrachlorophenol	8.93	232	37911	4.90306 ppb	#	88
60)	Diethyl phthalate	9.07	149	154007	4.98862 ppb		96
61)	4-Chlorophenyl phenyl ethe	9.20	204	86504	4.89026 ppb		90
62)	Fluorene	9.18	166	154595	4.80618 ppb		98
63)	4-Nitroaniline	8.49	138	34823	4.65461 ppb		88
66)	4,6-Dinitro-2-methylphenol	9.23	198	13188	1.91548 ppb	#	75
67)	Diphenyl amine	9.33	169	253502	9.63821 ppb		98
68)	n-Nitrosodiphenylamine	9.33	169	253502	9.63821 ppb		98
69)	1,2-Diphenylhydrazine	9.37	77	123757	4.50039 ppb		98
70)	4-Bromophenyl phenyl ether	9.76	248	50055	4.67893 ppb	#	89
71)	Hexachlorobenzene	9.82	284	53411	4.68093 ppb		95
72)	Atrazine	9.96	200	22023	2.25969 ppb		96
73)	Pentachlorophenol	10.05	266	26716	4.28442 ppb		96
74)	Phenanthrene	10.30	178	234788	4.95281 ppb		99
75)	Anthracene	10.36	178	238324	4.86048 ppb		100
76)	Carbazol	10.54	167	214401	4.85351 ppb		99
77)	Di-n-butylphthalate	10.99	149	244243	4.57482 ppb		99
78)	Fluoranthene	11.68	202	260481	4.74656 ppb		98
80)	Benzidine	11.85	184	67831	9.77949 ppb	#	98
81)	Pyrene	11.94	202	276641	5.01631 ppb		100
83)	Butyl benzylphthalate	12.73	149	102157	4.37279 ppb		88
84)	3,3'-Dichlorobenzidine	13.33	252	83398	4.54517 ppb	#	97
85)	Benz (a) anthracene	13.35	228	266101	4.65566 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.41	149	144972	4.51925 ppb	#	93
87)	Chrysene	13.38	228	268306	5.11347 ppb		99
88)	Di-n-octylphthalate	14.14	149	208993	3.83482 ppb		96
90)	Benzo (b) fluoranthene	14.57	252	227849	3.97078 ppb		98
91)	Benzo (k) fluoranthene	14.60	252	262261	5.45232 ppb		98
92)	Benzo (a) pyrene	14.98	252	220313	4.38300 ppb		97
93)	Indeno (1,2,3-cd) pyrene	16.73	276	245585	4.86013 ppb		96
94)	Dibenz (a,h) anthracene	16.77	278	221214	4.35032 ppb		97
95)	Benzo (g,h,i) perylene	17.22	276	223157	4.50748 ppb		99

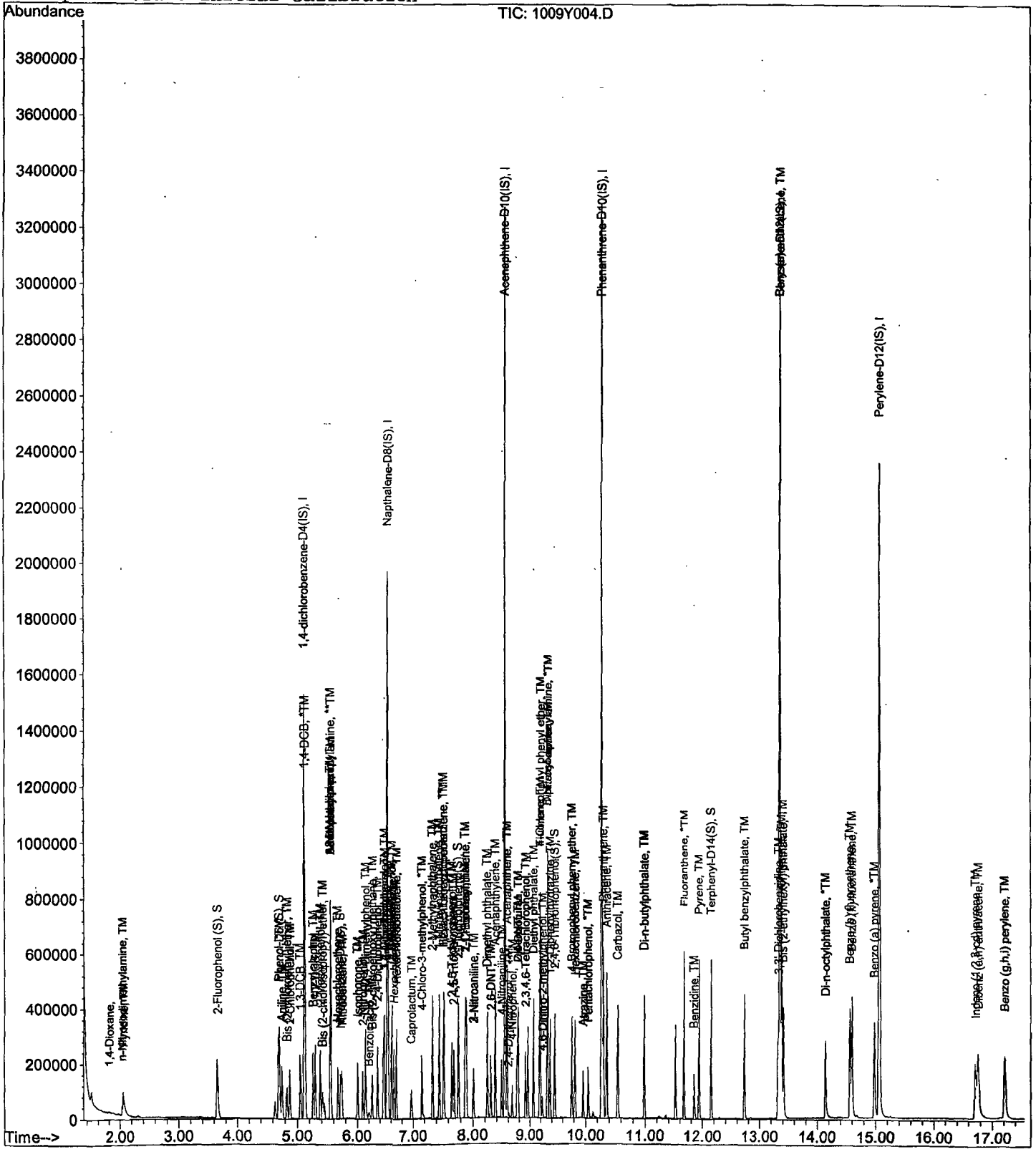
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y004.D Vial: 4
Acq On : 9 Oct 20 11:40 Operator: MA
Sample : 5ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:38 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	211409	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	859818	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	520738	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	1015162	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1017473	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	991671	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	156796	19.96527 ppb	0.00
Spiked Amount 200.000			Recovery =	9.983%	
6) Phenol-D6 (S)	4.70	99	197438	19.84875 ppb	0.00
Spiked Amount 200.000			Recovery =	9.925%	
22) Nitrobenzene-D5(S)	5.72	82	87568	9.68508 ppb	0.00
Spiked Amount 100.000			Recovery =	9.685%	
46) 2-Fluorobiphenyl(S)	7.77	172	214475	9.88509 ppb	0.00
Spiked Amount 100.000			Recovery =	9.885%	
64) 2,4,6-Tribromophenol(S)	9.46	330	67086	18.32827 ppb	-0.02
Spiked Amount 200.000			Recovery =	9.164%	
82) Terphenyl-D14(S)	12.15	244	281289	9.71097 ppb	0.00
Spiked Amount 100.000			Recovery =	9.711%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	1422m	0.73378	60
3) n-Nitrosodimethylamine	2.04	42	26386	10.29636 ppb	98
4) Pyridine	2.06	79	78803	9.93497 ppb	95
7) Phenol	4.71	94	110411	9.24768 ppb	94
8) Aniline	4.75	93	112408	13.61351 ppb	99
9) Bis (2-chloroethyl) ether	4.83	63	46713	9.93571 ppb	83
10) 2-Chlorophenol	4.88	128	97782	10.13374 ppb	99
11) 1,3-DCB	5.05	146	107275	10.21065 ppb	96
12) 1,4-DCB	5.13	146	109450	10.26007 ppb	96
13) Benzyl alcohol	5.26	108	54672	10.37964 ppb	98
14) 1,2-DCB	5.30	146	102762	10.29207 ppb	98
15) 2-Methylphenol	5.38	107	72503	9.75630 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	63573	10.41092 ppb	95
17) Acetophenone	5.56	105	125252	10.63650 ppb	75
18) 3&4-Methylphenol	5.55	107	195207	20.66653 ppb	97
19) n-Nitrosodi-n-propylamine	5.56	70	63491	10.28449 ppb	97
20) Hexachloroethane	5.67	117	37728	9.99851 ppb	77
23) Nitrobenzene	5.74	77	91971	9.95428 ppb	98
24) Isophorone	6.01	82	157472	9.82437 ppb	94
25) 2-Nitrophenol	6.10	139	51426	9.09397 ppb	90
26) 2,4-Dimethylphenol	6.14	122	84524	9.91589 ppb	97
27) Benzoic acid	6.22	105	25651	8.90070 ppb	93
28) Bis (2-chloroethoxy) metha	6.26	93	101899	10.12253 ppb	98
29) 2,4-Dichlorophenol	6.36	162	85540	9.96738 ppb	97
30) 1,2,4-Trichlorobenzene	6.47	180	96262	9.89599 ppb	95
31) 3,4-Dimethylphenol	6.48	107	119988	9.95758 ppb	98
32) Naphthalene	6.55	128	282779	9.98765 ppb	99
33) 4-Chloroaniline	6.61	127	120459	10.82017 ppb	98
34) 2,6-Dichlorophenol	6.62	162	84470	9.89248 ppb	97
35) Hexachloropropene	6.65	213	65625	9.00443 ppb	95
36) Hexachlorobutadiene	6.70	225	58596	9.84663 ppb	98
37) Caprolactum	6.98	55	26692	9.36269 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:38 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.16	107	87025	10.06512 ppb		99
39)	2-Methylnaphthalene	7.34	142	188174	9.89230 ppb		100
40)	1-Methylnaphthalene	7.45	142	196666	10.05622 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	71256	12.98649 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	103616	9.97288 ppb		97
44)	2,4,6-Trichlorophenol	7.67	196	66602	10.08176 ppb		99
45)	2,4,5-Trichlorophenol	7.70	196	69510	9.87424 ppb		99
47)	1,1'-Biphenyl	7.89	154	243153	9.81989 ppb		98
48)	2-Chloronaphthalene	7.90	162	195930	10.04539 ppb		97
49)	2-Nitroaniline	8.02	65	46170	9.41015 ppb		99
50)	Dimethyl phthalate	8.24	163	233303	10.07527 ppb		100
51)	2,6-DNT	8.31	165	48055	8.98168 ppb		97
52)	Acenaphthylene	8.38	152	295539	9.91427 ppb		99
53)	3-Nitroaniline	8.02	138	61198	9.41409 ppb		98
54)	Acenaphthene	8.58	154	197234	10.26642 ppb		99
55)	2,4-Dinitrophenol	8.61	184	7249	15.73076 ppb		95
56)	4-Nitrophenol	8.68	65	29458	8.88242 ppb		94
57)	Dibenzofuran	8.79	168	280021	10.10682 ppb		94
58)	2,4-DNT	8.77	165	68450	9.32618 ppb		86
59)	2,3,4,6-Tetrachlorophenol	8.93	232	56312	10.03798 ppb	#	91
60)	Diethyl phthalate	9.07	149	227834	10.17189 ppb		96
61)	4-Chlorophenyl phenyl ethe	9.20	204	127415	9.92795 ppb		93
62)	Fluorene	9.18	166	228130	9.77532 ppb		98
63)	4-Nitroaniline	8.49	138	54164	9.97864 ppb		86
66)	4,6-Dinitro-2-methylphenol	9.23	198	26610	5.31765 ppb	#	89
67)	Diphenyl amine	9.33	169	371199	19.41774 ppb		99
68)	n-Nitrosodiphenylamine	9.33	169	371199	19.41774 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	185164	9.26434 ppb		96
70)	4-Bromophenyl phenyl ether	9.76	248	72113	9.27448 ppb	#	91
71)	Hexachlorobenzene	9.82	284	79404	9.57461 ppb		93
72)	Atrazine	9.96	200	34643	4.89062 ppb		98
73)	Pentachlorophenol	10.05	266	44666	9.85541 ppb		97
74)	Phenanthrene	10.30	178	335804	9.74628 ppb		99
75)	Anthracene	10.36	178	344578	9.66888 ppb		100
76)	Carbazol	10.55	167	315150	9.81574 ppb		96
77)	Di-n-butylphthalate	10.99	149	366967	9.45705 ppb		99
78)	Fluoranthene	11.69	202	383069	9.60410 ppb		98
80)	Benzidine	11.85	184	114148	14.70810 ppb		98
81)	Pyrene	11.95	202	405458	10.11950 ppb		99
83)	Butyl benzylphthalate	12.73	149	155110	9.13850 ppb		86
84)	3,3'-Dichlorobenzidine	13.33	252	127488	9.56333 ppb	#	97
85)	Benz (a) anthracene	13.35	228	396810	9.55571 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.41	149	220414	9.45728 ppb	#	93
87)	Chrysene	13.38	228	389144	10.20800 ppb		99
88)	Di-n-octylphthalate	14.15	149	337683	8.52839 ppb		96
90)	Benzo (b) fluoranthene	14.57	252	343740	8.32714 ppb		98
91)	Benzo (k) fluoranthene	14.60	252	387493	11.19822 ppb	#	98
92)	Benzo (a) pyrene	14.98	252	333690	9.22810 ppb		97
93)	Indeno (1,2,3-cd) pyrene	16.73	276	373809	10.28332 ppb		98
94)	Dibenz (a,h) anthracene	16.77	278	330018	9.02161 ppb		98
95)	Benzo (g,h,i) perylene	17.22	276	329165	9.24218 ppb		99

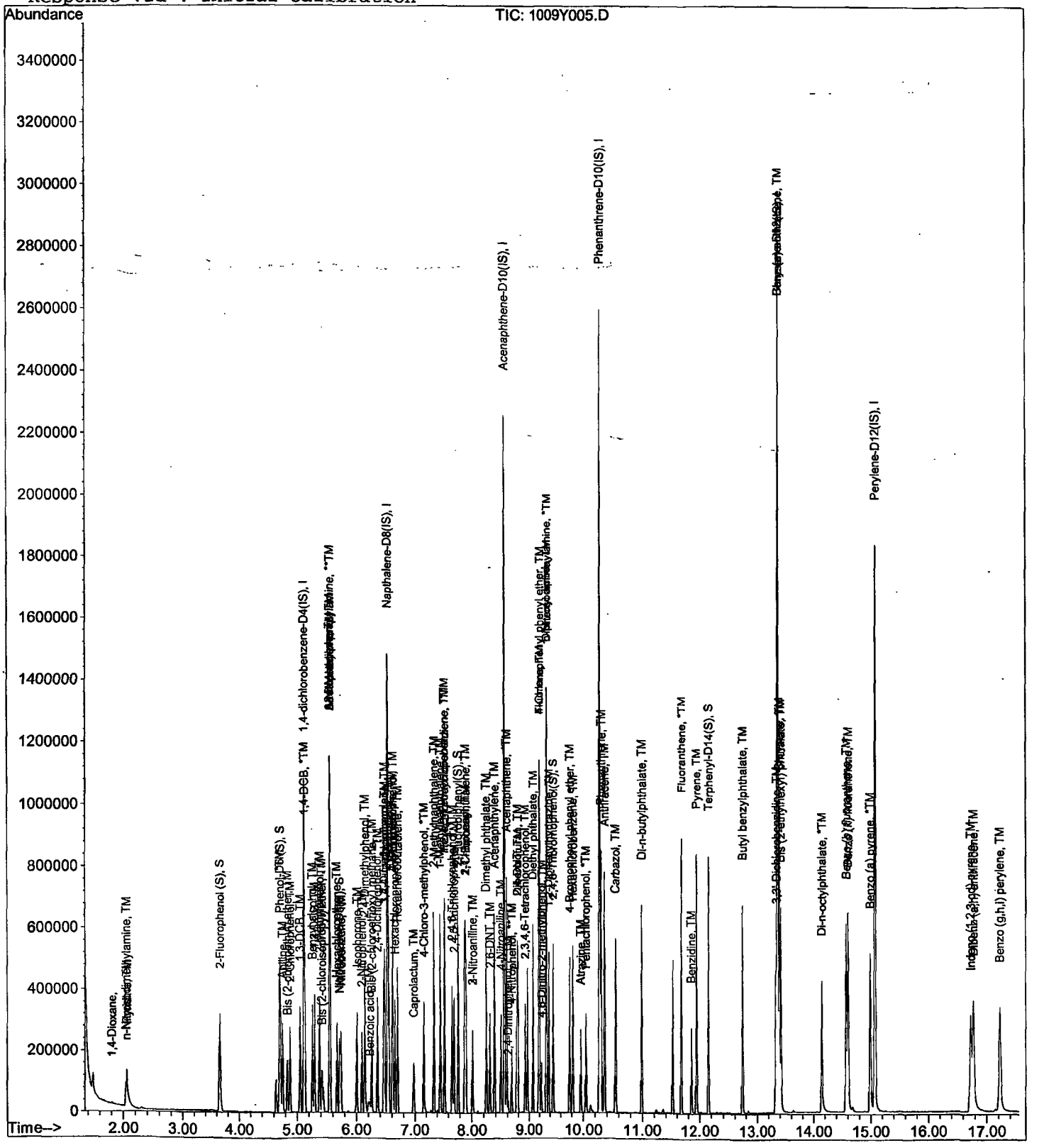
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:38 2020 Quant Results File: Y1009.RES

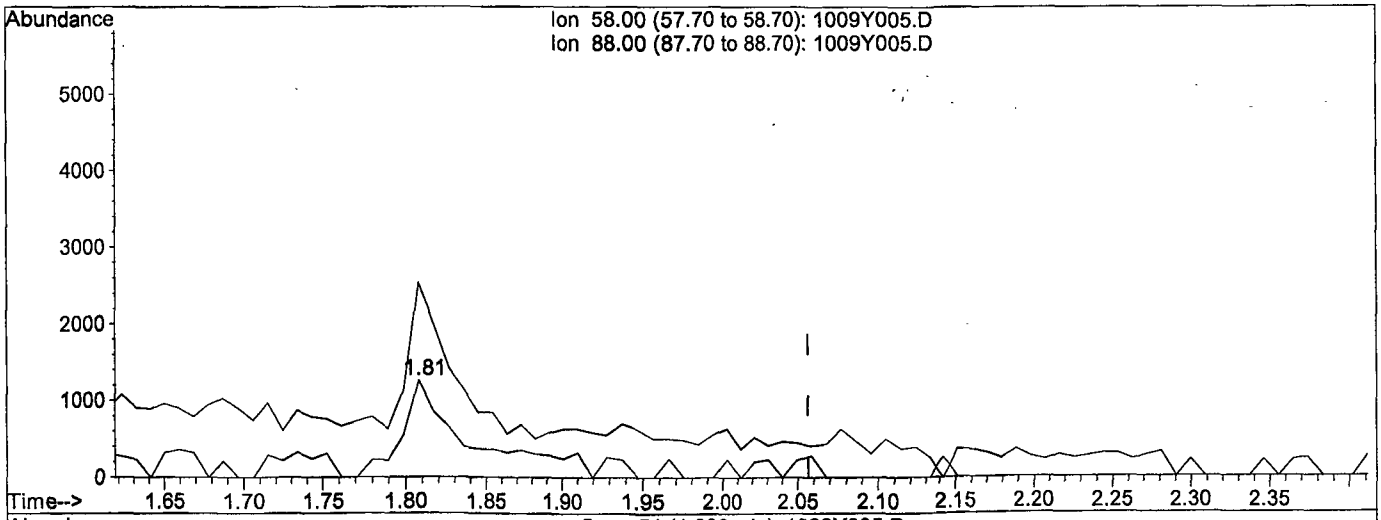
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration

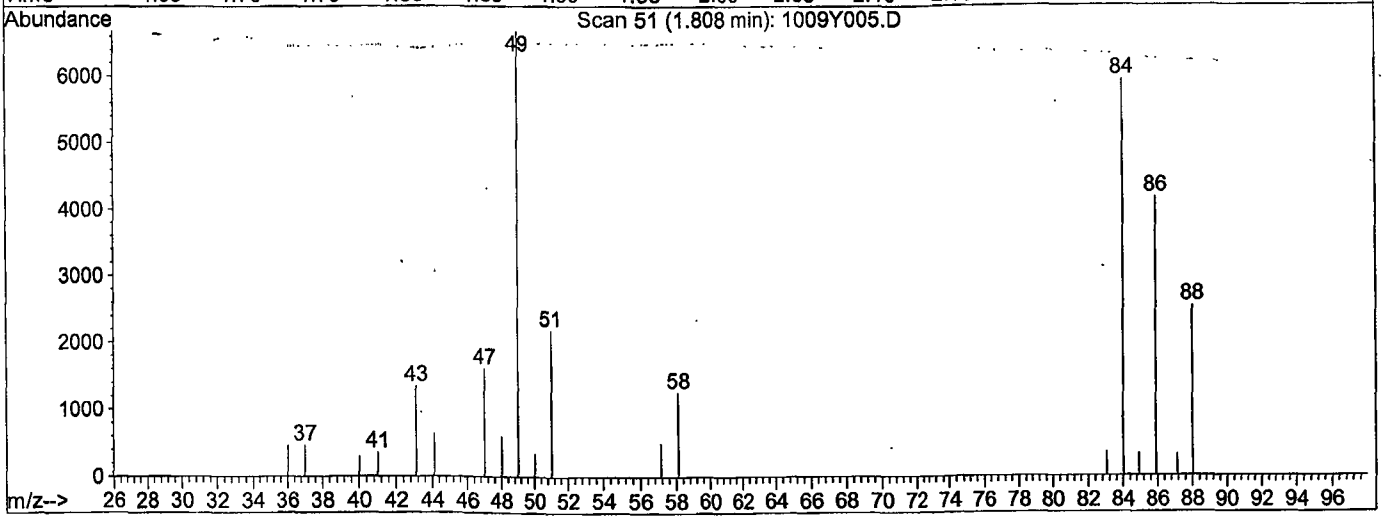


Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:30 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration





TIC: 1009Y005.D

(2) 1,4-Dioxane

1.81min 1.9222

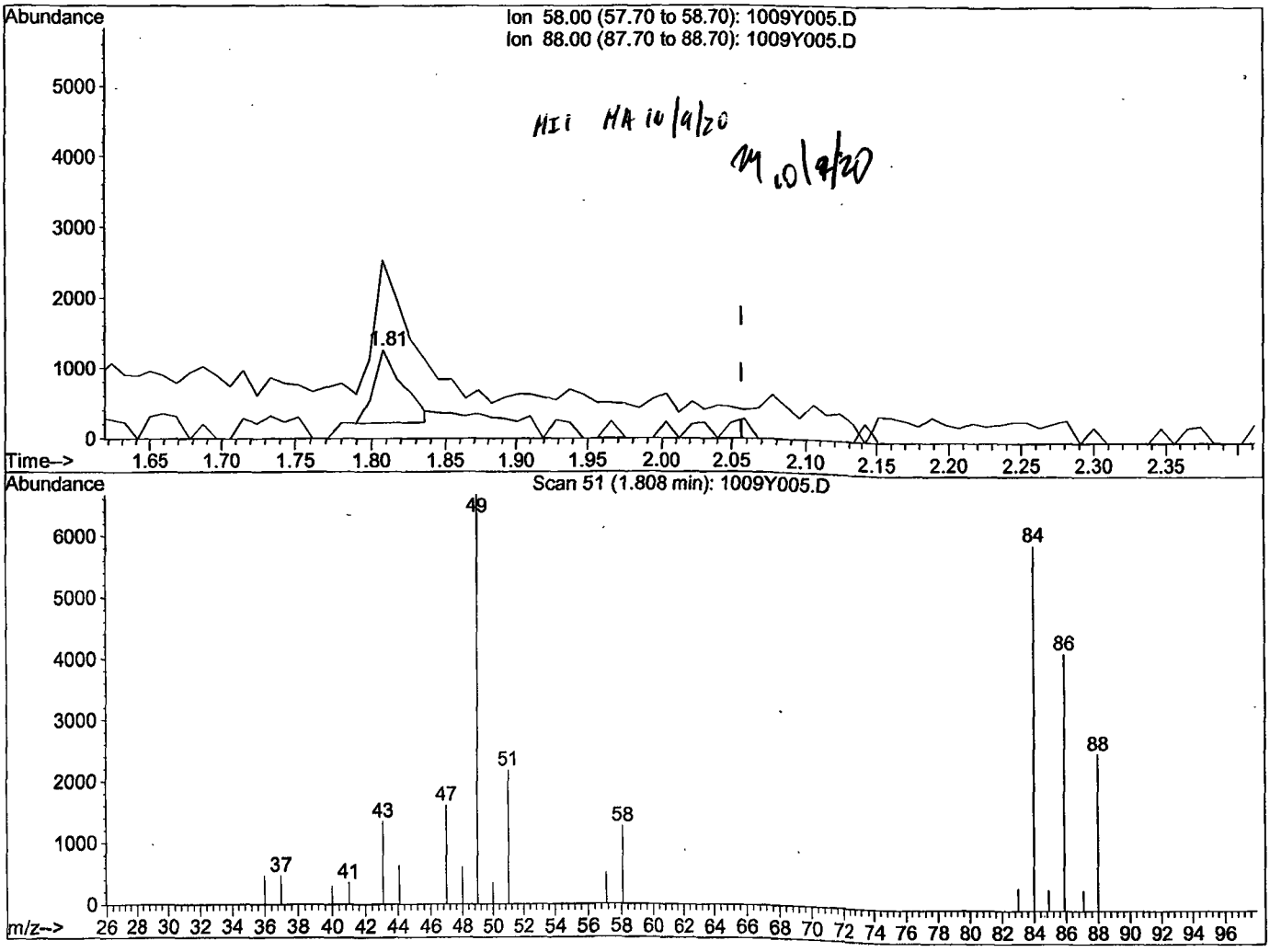
response 3725

Ion	Exp%	Act%
58.00	100	100
88.00	166.30	112.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y005.D Vial: 5
Acq On : 9 Oct 20 12:05 Operator: MA
Sample : 10ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:38 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration



TIC: 1009Y005.D

(2) 1,4-Dioxane

1.81min 0.7338 m

response 1422

Ion	Exp%	Act%
58.00	100	100
88.00	166.30	293.95#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y006.D Vial: 6
Acq On : 9 Oct 20 12:31 Operator: MA
Sample : 20ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	192915	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	808395	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	497350	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	966917	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.36	240	984198	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.06	264	957201	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.66	112	314553	43.89261 ppb		0.00
Spiked Amount 200.000			Recovery = 21.947%			
6) Phenol-D6 (S)	4.70	99	396252	43.65473 ppb		0.00
Spiked Amount 200.000			Recovery = 21.828%			
22) Nitrobenzene-D5(S)	5.73	82	174518	20.52963 ppb		0.00
Spiked Amount 100.000			Recovery = 20.530%			
46) 2-Fluorobiphenyl(S)	7.77	172	418559	20.19844 ppb		0.00
Spiked Amount 100.000			Recovery = 20.198%			
64) 2,4,6-Tribromophenol(S)	9.47	330	136914	39.16469 ppb		0.00
Spiked Amount 200.000			Recovery = 19.583%			
82) Terphenyl-D14(S)	12.15	244	557548	19.89906 ppb		0.00
Spiked Amount 100.000			Recovery = 19.899%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	3788	2.14207		89
3) n-Nitrosodimethylamine	2.03	42	59620	25.49526 ppb		95
4) Pyridine	2.05	79	160790	22.21470 ppb		95
7) Phenol	4.71	94	227978	20.92525 ppb		88
8) Aniline	4.75	93	194560	25.82165 ppb		98
9) Bis (2-chloroethyl) ether	4.83	63	88955	20.73427 ppb		85
10) 2-Chlorophenol	4.88	128	183288	20.81624 ppb		97
11) 1,3-DCB	5.05	146	200236	20.88597 ppb		97
12) 1,4-DCB	5.13	146	205197	21.07963 ppb		97
13) Benzyl alcohol	5.26	108	103551	21.54414 ppb		99
14) 1,2-DCB	5.30	146	191770	21.04788 ppb		97
15) 2-Methylphenol	5.38	107	136626	20.14745 ppb		97
16) Bis (2-chloroisopropyl) et	5.42	45	120266	21.58325 ppb		98
17) Acetophenone	5.56	105	238947	22.23684 ppb		86
18) 3&4-Methylphenol	5.55	107	373935	43.38362 ppb		92
19) n-Nitrosodi-n-propylamine	5.56	70	122321	21.71346 ppb		91
20) Hexachloroethane	5.67	117	72139	20.95073 ppb		76
23) Nitrobenzene	5.74	77	177791	20.46688 ppb		94
24) Isophorone	6.01	82	298471	19.80553 ppb		98
25) 2-Nitrophenol	6.10	139	104580	19.66992 ppb		91
26) 2,4-Dimethylphenol	6.14	122	169548	21.15570 ppb		98
27) Benzoic acid	6.24	105	60551	15.08044 ppb		97
28) Bis (2-chloroethoxy) metha	6.26	93	189163	19.98658 ppb		98
29) 2,4-Dichlorophenol	6.37	162	162407	20.12793 ppb		94
30) 1,2,4-Trichlorobenzene	6.47	180	183956	20.11413 ppb		97
31) 3,4-Dimethylphenol	6.48	107	227135	20.04854 ppb		96
32) Naphthalene	6.55	128	531374	19.96178 ppb		99
33) 4-Chloroaniline	6.62	127	230010	21.97478 ppb	#	93
34) 2,6-Dichlorophenol	6.62	162	158102	19.69350 ppb		97
35) Hexachloropropene	6.65	213	130609	19.06088 ppb		98
36) Hexachlorobutadiene	6.70	225	111431	19.91630 ppb		98
37) Caprolactum	7.00	55	54071	20.17283 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y006.D Vial: 6
Acq On : 9 Oct 20 12:31 Operator: MA
Sample : 20ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.16	107	166541	20.48704	ppb		99
39)	2-Methylnaphthalene	7.34	142	354209	19.80525	ppb		100
40)	1-Methylnaphthalene	7.45	142	366039	19.90745	ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	142464	25.68209	ppb		97
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	194757	19.62656	ppb		98
44)	2,4,6-Trichlorophenol	7.67	196	129817	20.57491	ppb		99
45)	2,4,5-Trichlorophenol	7.70	196	138553	20.60769	ppb		97
47)	1,1'-Biphenyl	7.89	154	468875	19.82627	ppb		97
48)	2-Chloronaphthalene	7.91	162	370608	19.89472	ppb		96
49)	2-Nitroaniline	8.02	65	94429	20.15112	ppb		93
50)	Dimethyl phthalate	8.25	163	449533	20.32615	ppb		97
51)	2,6-DNT	8.31	165	97966	19.17130	ppb		95
52)	Acenaphthylene	8.38	152	572109	20.09471	ppb		99
53)	3-Nitroaniline	8.02	138	121616	19.58794	ppb		98
54)	Acenaphthene	8.58	154	379587	20.68739	ppb		99
55)	2,4-Dinitrophenol	8.61	184	25517	20.59204	ppb		85
56)	4-Nitrophenol	8.68	65	63627	20.08752	ppb		88
57)	Dibenzofuran	8.79	168	544443	20.57471	ppb		95
58)	2,4-DNT	8.77	165	141115	20.13078	ppb		95
59)	2,3,4,6-Tetrachlorophenol	8.93	232	113602	21.20257	ppb		92
60)	Diethyl phthalate	9.08	149	441192	20.62377	ppb		99
61)	4-Chlorophenyl phenyl ethe	9.20	204	249437	20.34966	ppb		93
62)	Fluorene	9.19	166	439128	19.70139	ppb		100
63)	4-Nitroaniline	8.49	138	104872	20.22914	ppb		95
66)	4,6-Dinitro-2-methylphenol	9.24	198	73122	15.34155	ppb		93
67)	Diphenyl amine	9.34	169	716408	39.34581	ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	716408	39.34581	ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	355993	18.70017	ppb		92
70)	4-Bromophenyl phenyl ether	9.76	248	140233	18.93532	ppb	#	88
71)	Hexachlorobenzene	9.82	284	152151	19.26192	ppb	#	90
72)	Atrazine	9.96	200	67395	9.98901	ppb		99
73)	Pentachlorophenol	10.05	266	97914	22.68238	ppb		97
74)	Phenanthrene	10.30	178	661795	20.16614	ppb		99
75)	Anthracene	10.36	178	672912	19.82408	ppb		100
76)	Carbazol	10.55	167	619232	20.24909	ppb		96
77)	Di-n-butylphthalate	10.99	149	734338	19.86876	ppb		99
78)	Fluoranthene	11.69	202	737851	19.42202	ppb		97
80)	Benzidine	11.85	184	233994	24.41519	ppb	#	98
81)	Pyrene	11.95	202	792842	20.45692	ppb		99
83)	Butyl benzylphthalate	12.73	149	323994	19.73389	ppb		84
84)	3,3'-Dichlorobenzidine	13.33	252	263658	20.44660	ppb	#	97
85)	Benz (a) anthracene	13.35	228	782163	19.47233	ppb		100
86)	Bis (2-ethylhexyl) phthala	13.41	149	448969	19.91516	ppb	#	93
87)	Chrysene	13.39	228	761218	20.64333	ppb		99
88)	Di-n-octylphthalate	14.15	149	725589	18.94475	ppb		95
90)	Benzo (b) fluoranthene	14.57	252	731637	18.36224	ppb		99
91)	Benzo (k) fluoranthene	14.61	252	710650	21.27676	ppb		100
92)	Benzo (a) pyrene	14.99	252	689928	19.76683	ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	749939	21.37342	ppb		99
94)	Dibenz (a,h) anthracene	16.78	278	661450	18.73302	ppb		97
95)	Benzo (g,h,i) perylene	17.24	276	658600	19.15786	ppb		98

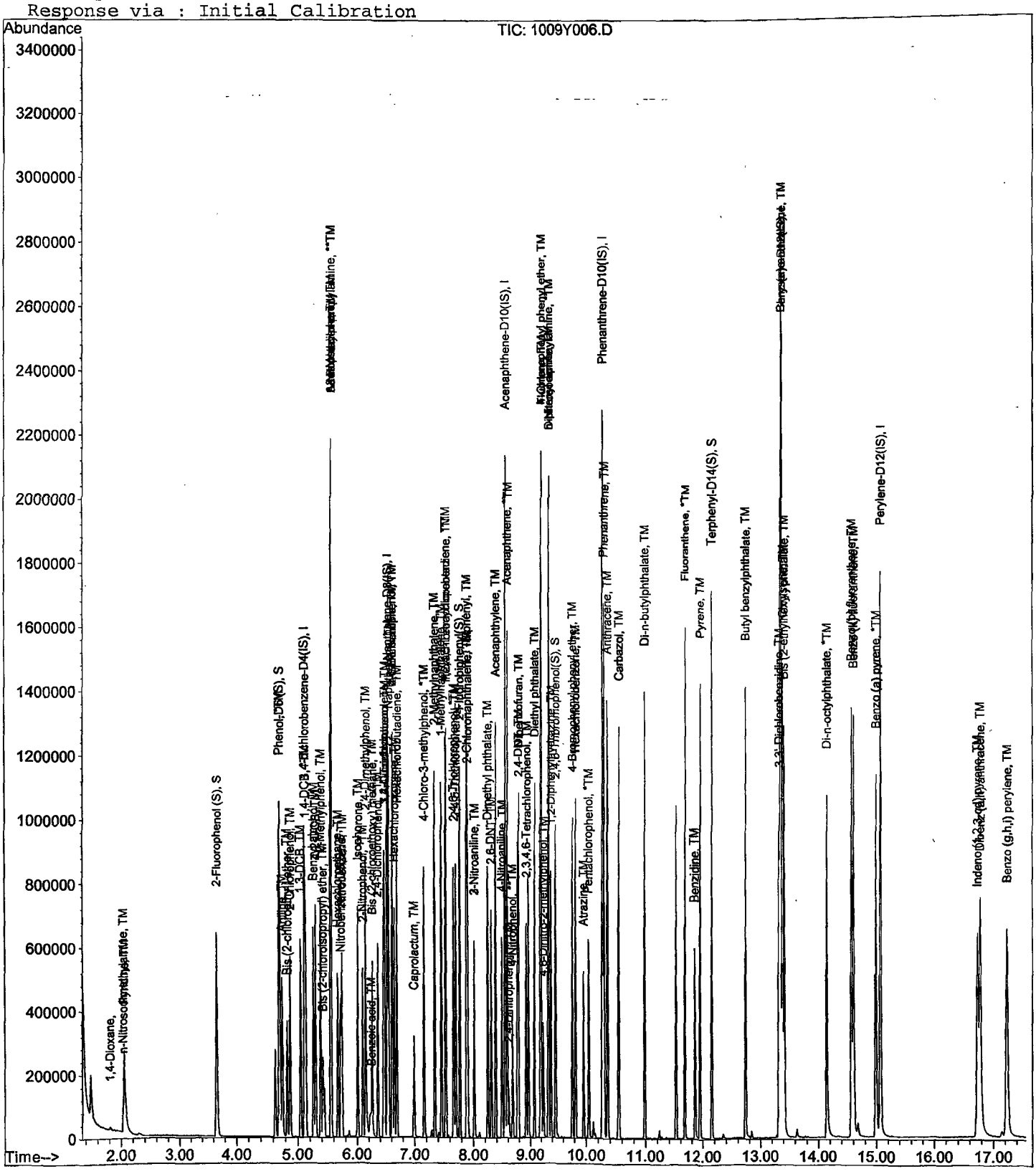
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y006.D Vial: 6
Acq On : 9 Oct 20 12:31 Operator: MA
Sample : 20ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:40 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	212035	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	854538	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	517005	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1018808	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	1051031	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1020267	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	634034	80.49494 ppb	0.00
Spiked Amount 200.000			Recovery = 40.248%		
6) Phenol-D6 (S)	4.71	99	791612	79.34703 ppb	0.00
Spiked Amount 200.000			Recovery = 39.674%		
22) Nitrobenzene-D5(S)	5.73	82	352039	39.17634 ppb	0.00
Spiked Amount 100.000			Recovery = 39.176%		
46) 2-Fluorobiphenyl(S)	7.78	172	846283	39.28656 ppb	0.00
Spiked Amount 100.000			Recovery = 39.287%		
64) 2,4,6-Tribromophenol(S)	9.47	330	283940	78.13413 ppb	0.00
Spiked Amount 200.000			Recovery = 39.067%		
82) Terphenyl-D14(S)	12.15	244	1156658	38.65648 ppb	0.00
Spiked Amount 100.000			Recovery = 38.656%		
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	7640	3.93075	90
3) n-Nitrosodimethylamine	2.03	42	110402	42.95393 ppb	98
4) Pyridine	2.05	79	306592	38.53901 ppb	99
7) Phenol	4.72	94	463809	38.73249 ppb	96
8) Aniline	4.76	93	336320	40.61080 ppb	98
9) Bis (2-chloroethyl) ether	4.84	63	184887	39.20878 ppb	93
10) 2-Chlorophenol	4.88	128	378288	39.08852 ppb	95
11) 1,3-DCB	5.06	146	394833	37.47005 ppb	99
12) 1,4-DCB	5.13	146	403302	37.69475 ppb	97
13) Benzyl alcohol	5.26	108	207791	39.33326 ppb	92
14) 1,2-DCB	5.30	146	377953	37.74192 ppb	98
15) 2-Methylphenol	5.38	107	273697	36.72106 ppb	97
16) Bis (2-chloroisopropyl) et	5.42	45	237348	38.75413 ppb	95
17) Acetophenone	5.56	105	478394	40.50566 ppb	93
18) 3&4-Methylphenol	5.56	107	757832	79.99466 ppb	97
19) n-Nitrosodi-n-propylamine	5.57	70	246849	39.86740 ppb	98
20) Hexachloroethane	5.67	117	144939	38.29770 ppb	76
23) Nitrobenzene	5.74	77	351360	38.26364 ppb	91
24) Isophorone	6.01	82	599785	37.65063 ppb	97
25) 2-Nitrophenol	6.10	139	214038	38.08351 ppb #	86
26) 2,4-Dimethylphenol	6.14	122	330250	38.98251 ppb	96
27) Benzoic acid	6.23	105	206981m	38.02135 ppb	98
28) Bis (2-chloroethoxy) metha	6.26	93	380455	38.02750 ppb	99
29) 2,4-Dichlorophenol	6.37	162	326752	38.30937 ppb	95
30) 1,2,4-Trichlorobenzene	6.47	180	361788	37.42257 ppb	97
31) 3,4-Dimethylphenol	6.49	107	468655	39.13310 ppb	99
32) Naphthalene	6.55	128	1064880	37.84355 ppb	99
33) 4-Chloroaniline	6.62	127	463963	41.93276 ppb	96
34) 2,6-Dichlorophenol	6.63	162	324881	38.28265 ppb	97
35) Hexachloropropene	6.65	213	264065	36.45632 ppb	97
36) Hexachlorobutadiene	6.70	225	226657	38.32340 ppb	99
37) Caprolactum	7.03	55	110677	39.06178 ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:40 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	332232	38.66266 ppb		93
39)	2-Methylnaphthalene	7.34	142	712074	37.66500 ppb		99
40)	1-Methylnaphthalene	7.46	142	747350	38.45072 ppb		98
42)	Hexachlorocyclopentadiene	7.53	237	266304	45.08437 ppb		97
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	396423	38.43061 ppb		99
44)	2,4,6-Trichlorophenol	7.67	196	266713	40.66473 ppb		96
45)	2,4,5-Trichlorophenol	7.70	196	280347	40.11223 ppb		93
47)	1,1'-Biphenyl	7.89	154	956404	38.90387 ppb		97
48)	2-Chloronaphthalene	7.91	162	757162	39.10021 ppb		97
49)	2-Nitroaniline	8.02	65	190271	39.06014 ppb		83
50)	Dimethyl phthalate	8.25	163	899127	39.10948 ppb		98
51)	2,6-DNT	8.31	165	201507	37.93445 ppb	#	81
52)	Acenaphthylene	8.38	152	1157318	39.10418 ppb		100
53)	3-Nitroaniline	8.02	138	250735	38.84905 ppb		94
54)	Acenaphthene	8.59	154	762724	39.98796 ppb		100
55)	2,4-Dinitrophenol	8.61	184	82583	34.69107 ppb		85
56)	4-Nitrophenol	8.69	65	138343	42.01550 ppb		91
57)	Dibenzofuran	8.79	168	1092529	39.71747 ppb		97
58)	2,4-DNT	8.77	165	291100	39.94817 ppb		93
59)	2,3,4,6-Tetrachlorophenol	8.93	232	233724	41.96365 ppb		94
60)	Diethyl phthalate	9.08	149	879121	39.53270 ppb		98
61)	4-Chlorophenyl phenyl ethe	9.20	204	505486	39.67096 ppb		94
62)	Fluorene	9.19	166	903585	38.99799 ppb		99
63)	4-Nitroaniline	8.50	138	215127	39.91904 ppb	#	79
66)	4,6-Dinitro-2-methylphenol	9.24	198	177892	35.42211 ppb		92
67)	Diphenyl amine	9.34	169	1471327	76.69095 ppb		100
68)	n-Nitrosodiphenylamine	9.34	169	1471327	76.69095 ppb		100
69)	1,2-Diphenylhydrazine	9.38	77	713667	35.57923 ppb	#	89
70)	4-Bromophenyl phenyl ether	9.76	248	287510	36.84446 ppb	#	87
71)	Hexachlorobenzene	9.82	284	304827	36.62479 ppb	#	84
72)	Atrazine	9.97	200	138004	19.41258 ppb		96
73)	Pentachlorophenol	10.05	266	208610	45.86440 ppb		99
74)	Phenanthrene	10.30	178	1303520	37.69762 ppb		99
75)	Anthracene	10.37	178	1387082	38.78232 ppb		99
76)	Carbazol	10.55	167	1228289	38.11970 ppb		98
77)	Di-n-butylphthalate	10.99	149	1504720	38.63913 ppb		99
78)	Fluoranthene	11.70	202	1524460	38.08366 ppb		98
80)	Benzidine	11.85	184	477549	41.16107 ppb	#	97
81)	Pyrene	11.96	202	1584435	38.28203 ppb		99
83)	Butyl benzylphthalate	12.74	149	657082	37.47677 ppb	#	79
84)	3,3'-Dichlorobenzidine	13.33	252	546556	39.69005 ppb		99
85)	Benz (a) anthracene	13.35	228	1593023	37.13724 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.41	149	927574	38.52858 ppb	#	93
87)	Chrysene	13.39	228	1516346	38.50666 ppb		99
88)	Di-n-octylphthalate	14.15	149	1554499	38.00631 ppb		97
90)	Benzo (b) fluoranthene	14.57	252	1462171	34.42845 ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1504454	42.25888 ppb		98
92)	Benzo (a) pyrene	14.99	252	1413745	38.00089 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.75	276	1561010	41.73909 ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1386808	36.84822 ppb		97
95)	Benzo (g,h,i) perylene	17.25	276	1342256	36.63110 ppb		99

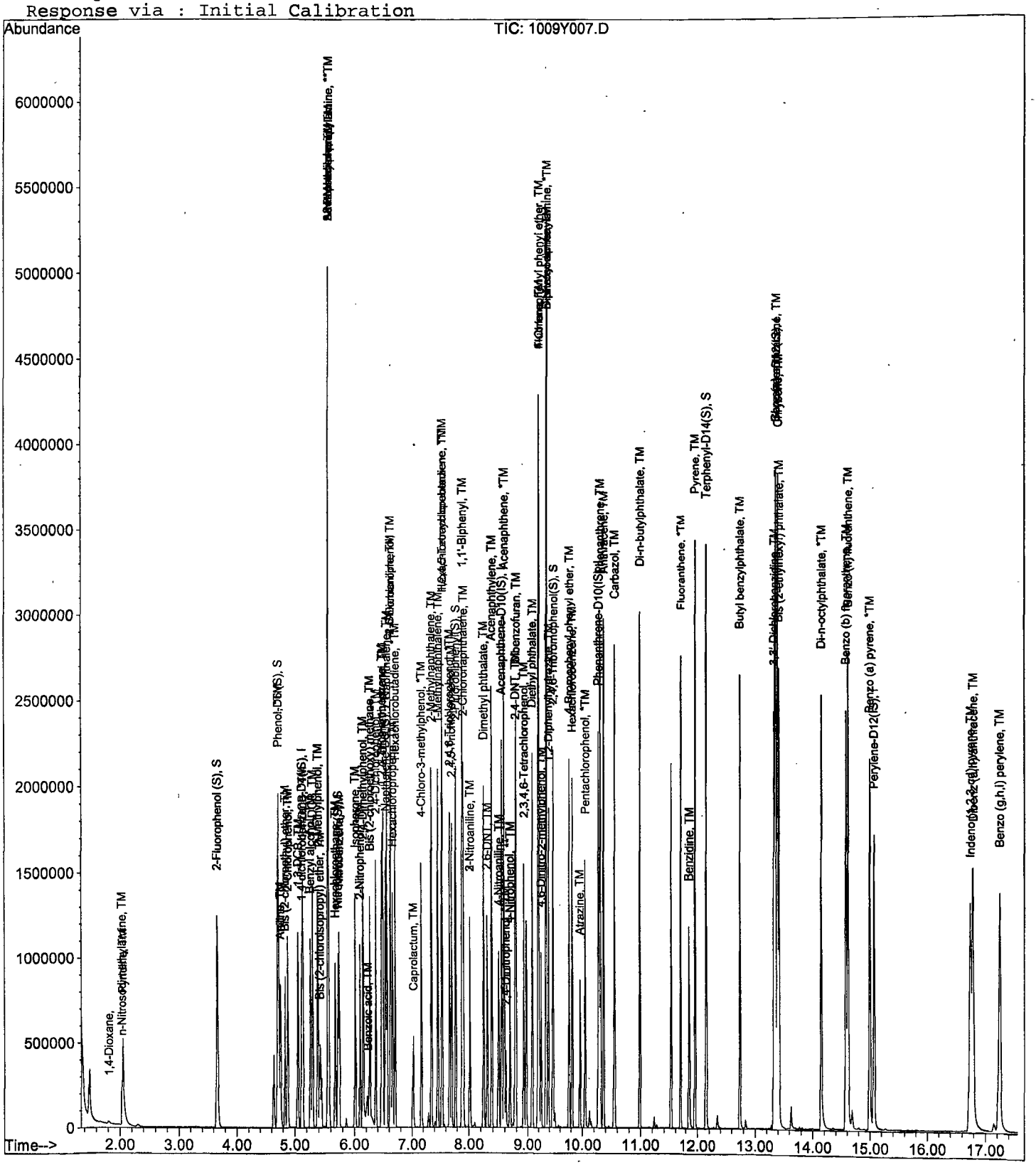
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:40 2020 Quant Results File: Y1009.RES

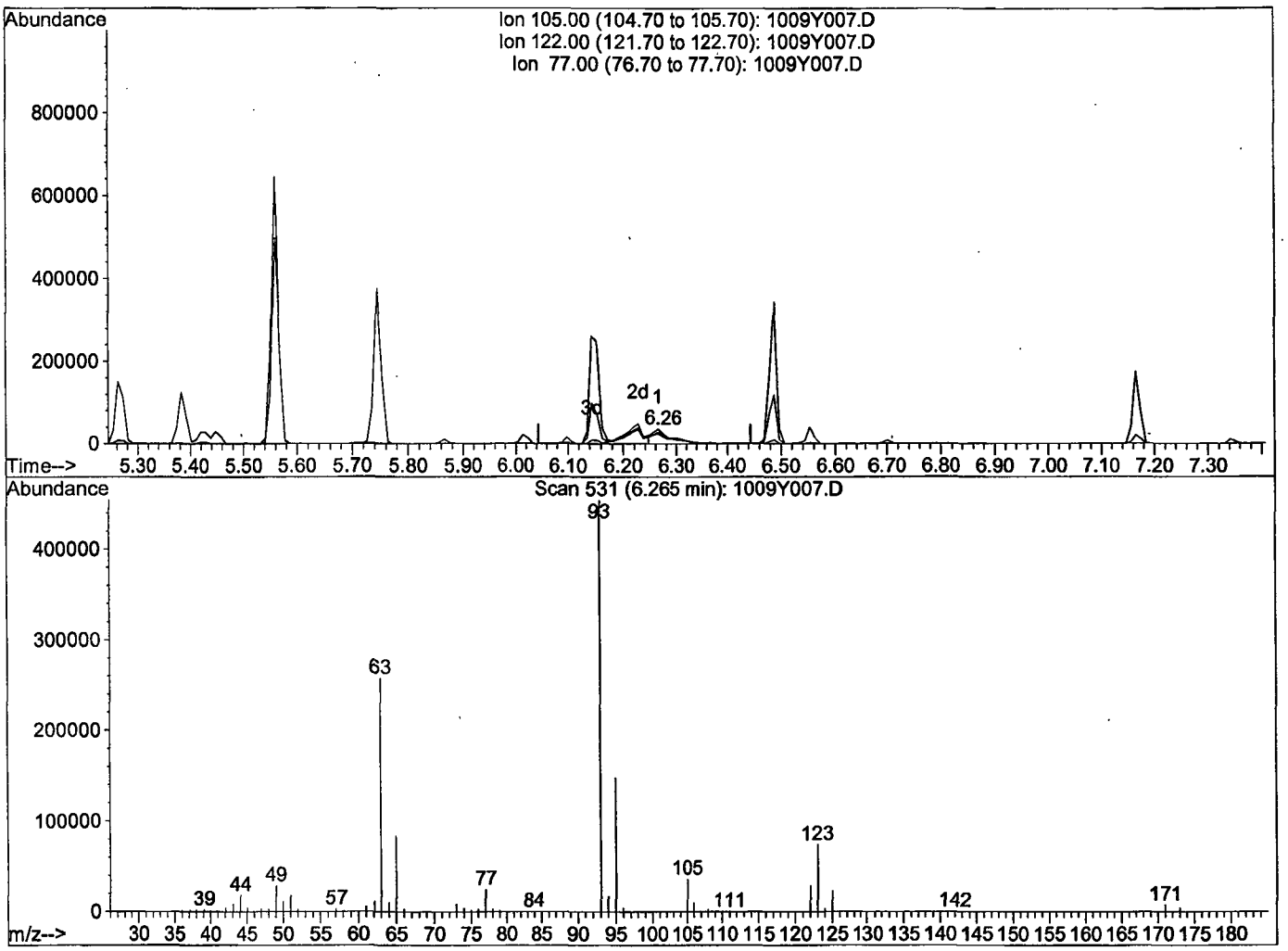
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:30 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration



TIC: 1009Y007.D

(27) Benzoic acid (TM)

6.26min 19.3185ppb

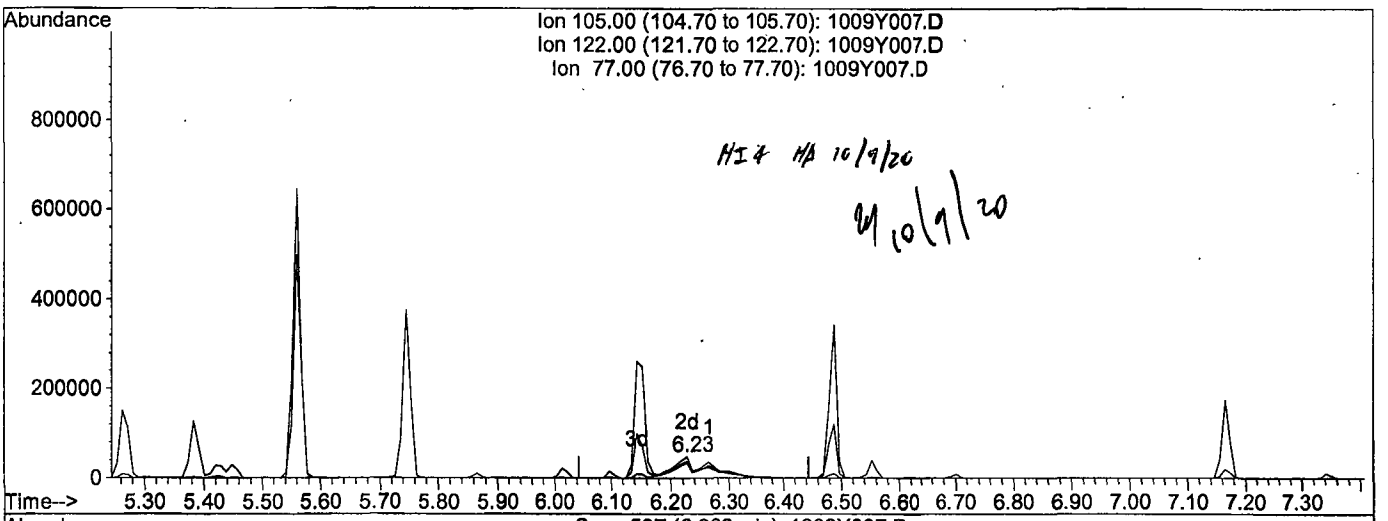
response 90420

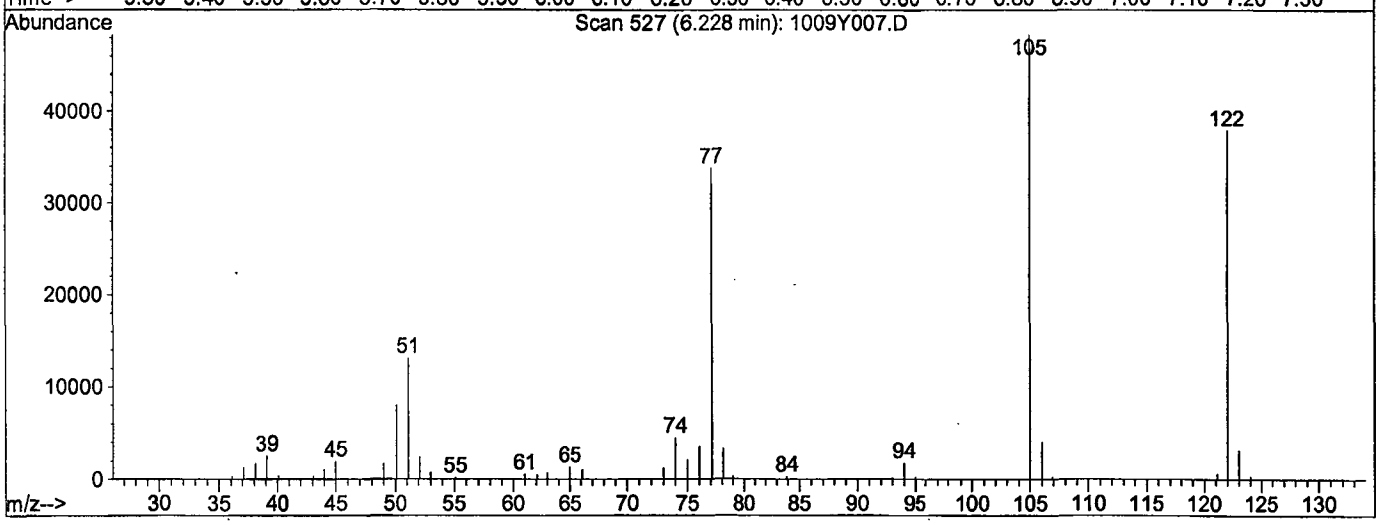
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	80.14
77.00	70.50	68.43
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y007.D Vial: 7
Acq On : 9 Oct 20 12:56 Operator: MA
Sample : 40ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 14:40 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:32:33 2020
Response via : Multiple Level Calibration





TIC: 1009Y007.D

(27) Benzoic acid (TM)

6.23min 38.0214ppb m

response 206981

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	78.47
77.00	70.50	69.98
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y008.D Vial: 8
Acq On : 9 Oct 20 13:22 Operator: MA
Sample : 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216487	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	858051	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	523185	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1022290	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	1056215	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1013157	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	810719	100.80965 ppb	0.00
Spiked Amount 200.000			Recovery	= 50.405%	
6) Phenol-D6 (S)	4.71	99	1029543	101.07379 ppb	0.00
Spiked Amount 200.000			Recovery	= 50.537%	
22) Nitrobenzene-D5(S)	5.72	82	450529	49.93145 ppb	0.00
Spiked Amount 100.000			Recovery	= 49.931%	
46) 2-Fluorobiphenyl(S)	7.78	172	1089455	49.97781 ppb	0.00
Spiked Amount 100.000			Recovery	= 49.978%	
64) 2,4,6-Tribromophenol(S)	9.47	330	376831	102.47083 ppb	0.00
Spiked Amount 200.000			Recovery	= 51.236%	
82) Terphenyl-D14(S)	12.16	244	1512475	50.30009 ppb	0.00
Spiked Amount 100.000			Recovery	= 50.300%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	9503	4.78871	100
3) n-Nitrosodimethylamine	2.03	42	149986	57.15476 ppb	100
4) Pyridine	2.05	79	412325	50.76392 ppb	100
7) Phenol	4.73	94	607510	49.68959 ppb	100
8) Aniline	4.76	93	462784	54.73220 ppb	100
9) Bis (2-chloroethyl) ether	4.83	63	239837	49.81600 ppb	100
10) 2-Chlorophenol	4.89	128	492229	49.81609 ppb	100
11) 1,3-DCB	5.06	146	540948	50.28079 ppb	100
12) 1,4-DCB	5.14	146	544897	49.88162 ppb	100
13) Benzyl alcohol	5.27	108	277085	51.37147 ppb	100
14) 1,2-DCB	5.30	146	509402	49.82216 ppb	100
15) 2-Methylphenol	5.39	107	368851	48.46987 ppb	100
16) Bis (2-chloroisopropyl) et	5.43	45	311077	49.74805 ppb	100
17) Acetophenone	5.57	105	642698	53.29821 ppb	100
18) 3&4-Methylphenol	5.57	107	1047328	108.27957 ppb	100
19) n-Nitrosodi-n-propylamine	5.58	70	323078	51.10573 ppb	100
20) Hexachloroethane	5.68	117	194952	50.45345 ppb	100
23) Nitrobenzene	5.75	77	468128	50.77114 ppb	100
24) Isophorone	6.02	82	813175	50.83689 ppb	100
25) 2-Nitrophenol	6.10	139	289105	51.22948 ppb	100
26) 2,4-Dimethylphenol	6.15	122	442162	51.97885 ppb	100
27) Benzoic acid	6.24	105	299244	52.62886 ppb	100
28) Bis (2-chloroethoxy) metha	6.26	93	507198	50.48824 ppb	100
29) 2,4-Dichlorophenol	6.36	162	434049	50.68083 ppb	100
30) 1,2,4-Trichlorobenzene	6.47	180	487464	50.21579 ppb	100
31) 3,4-Dimethylphenol	6.49	107	602770	50.12575 ppb	100
32) Naphthalene	6.56	128	1419716	50.24709 ppb	100
33) 4-Chloroaniline	6.62	127	596438	53.68509 ppb	100
34) 2,6-Dichlorophenol	6.62	162	423025	49.64346 ppb	100
35) Hexachloropropene	6.66	213	368550	50.67301 ppb	100
36) Hexachlorobutadiene	6.70	225	298371	50.24233 ppb	100
37) Caprolactum	7.03	55	141614	49.77590 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y008.D Vial: 8
Acq On : 9 Oct 20 13:22 Operator: MA
Sample : 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.17	107	446433	51.73981 ppb	100
39) 2-Methylnaphthalene	7.35	142	963880	50.77549 ppb	100
40) 1-Methylnaphthalene	7.46	142	999858	51.23150 ppb	100
42) Hexachlorocyclopentadiene	7.53	237	363392	60.31529 ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.53	216	532541	51.01654 ppb	100
44) 2,4,6-Trichlorophenol	7.67	196	360572	54.32568 ppb	100
45) 2,4,5-Trichlorophenol	7.71	196	364113	51.48213 ppb	100
47) 1,1'-Biphenyl	7.89	154	1244453	50.02296 ppb	100
48) 2-Chloronaphthalene	7.91	162	1001133	51.08831 ppb	100
49) 2-Nitroaniline	8.03	65	253004	51.32489 ppb	100
50) Dimethyl phthalate	8.25	163	1185465	50.95528 ppb	100
51) 2,6-DNT	8.31	165	274265	51.02153 ppb	100
52) Acenaphthylene	8.39	152	1549108	51.72394 ppb	100
53) 3-Nitroaniline	8.03	138	337593	51.68903 ppb	100
54) Acenaphthene	8.59	154	1047109	54.24918 ppb	100
55) 2,4-Dinitrophenol	8.62	184	129461	46.09672 ppb	100
56) 4-Nitrophenol	8.69	65	191680	57.52659 ppb	100
57) Dibenzofuran	8.79	168	1433529	51.49850 ppb	100
58) 2,4-DNT	8.78	165	384010	52.07589 ppb	100
59) 2,3,4,6-Tetrachlorophenol	8.93	232	314021	55.71448 ppb	100
60) Diethyl phthalate	9.08	149	1167645	51.88694 ppb	100
61) 4-Chlorophenyl phenyl ethe	9.20	204	668203	51.82168 ppb	100
62) Fluorene	9.19	166	1209118	51.56812 ppb	100
63) 4-Nitroaniline	8.50	138	276752	50.74759 ppb	100
66) 4,6-Dinitro-2-methylphenol	9.25	198	253948	50.39425 ppb	100
67) Diphenyl amine	9.34	169	1971388	102.40596 ppb	100
68) n-Nitrosodiphenylamine	9.34	169	1971388	102.40596 ppb	100
69) 1,2-Diphenylhydrazine	9.38	77	944276	46.91569 ppb	100
70) 4-Bromophenyl phenyl ether	9.77	248	387104	49.43848 ppb	100
71) Hexachlorobenzene	9.83	284	421290	50.44535 ppb	100
72) Atrazine	9.97	200	182289	25.55467 ppb	100
73) Pentachlorophenol	10.05	266	285558	62.56813 ppb	100
74) Phenanthrene	10.31	178	1753039	50.52497 ppb	100
75) Anthracene	10.37	178	1815340	50.58338 ppb	100
76) Carbazol	10.55	167	1623543	50.21471 ppb	100
77) Di-n-butylphthalate	10.99	149	1976453	50.57972 ppb	100
78) Fluoranthene	11.69	202	2036242	50.69560 ppb	100
80) Benzidine	11.86	184	615350	51.07485 ppb	100
81) Pyrene	11.95	202	2097962	50.44072 ppb	100
83) Butyl benzylphthalate	12.74	149	900332	51.09854 ppb	100
84) 3,3'-Dichlorobenzidine	13.33	252	709576	51.27541 ppb	100
85) Benz (a) anthracene	13.36	228	2138614	49.61159 ppb	100
86) Bis (2-ethylhexyl) phthala	13.42	149	1255280	51.88457 ppb	100
87) Chrysene	13.39	228	2029488	51.28463 ppb	100
88) Di-n-octylphthalate	14.14	149	2084175	50.70638 ppb	100
90) Benzo (b) fluoranthene	14.58	252	2061658	48.88471 ppb	100
91) Benzo (k) fluoranthene	14.62	252	1871096	52.92638 ppb	100
92) Benzo (a) pyrene	15.00	252	1897839	51.37113 ppb	100
93) Indeno (1,2,3-cd) pyrene	16.75	276	2098572	56.50648 ppb	100
94) Dibenz (a,h) anthracene	16.79	278	1855050	49.63555 ppb	100
95) Benzo (g,h,i) perylene	17.25	276	1809092	49.71785 ppb	100

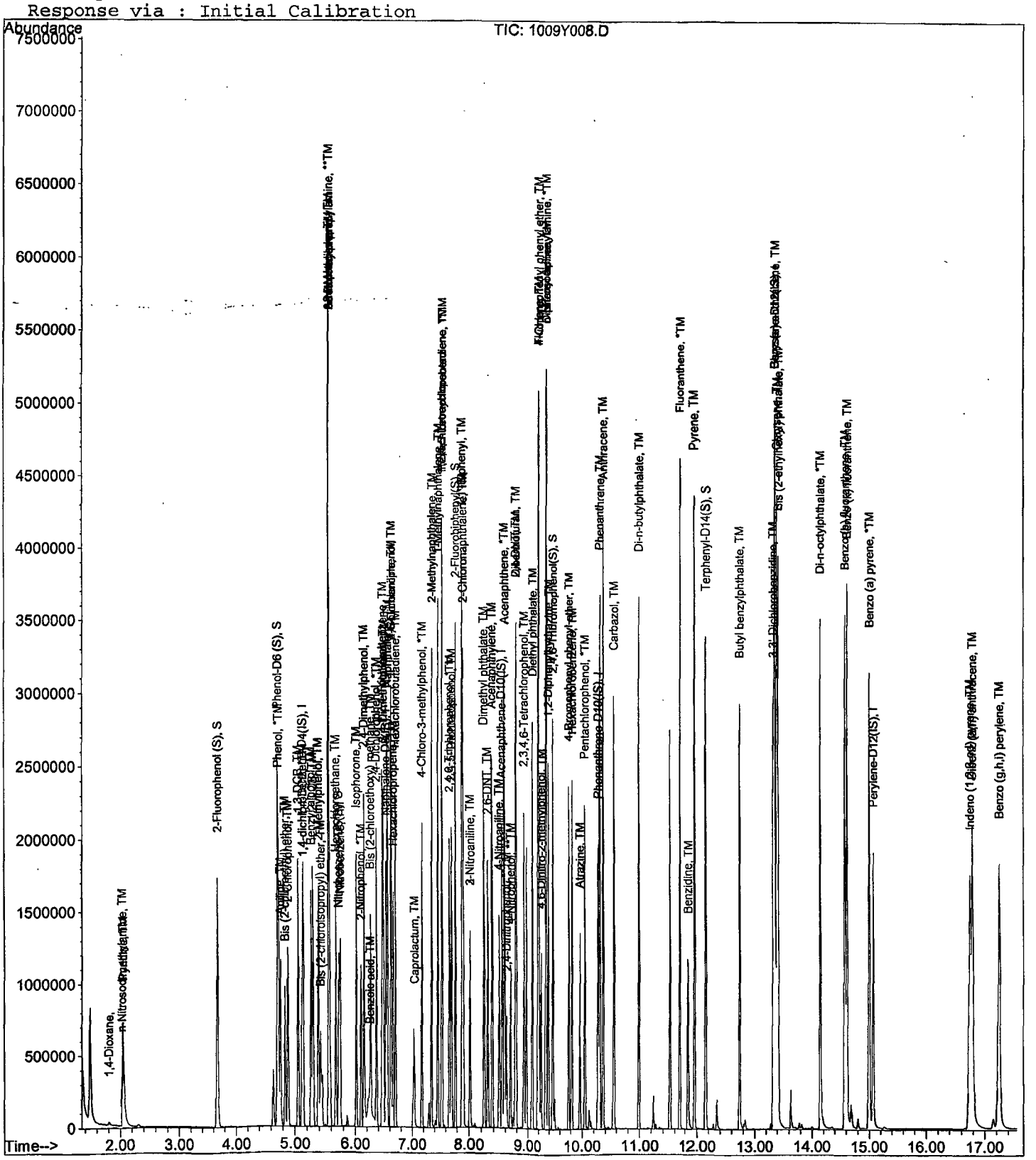
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y008.D Vial: 8
Acq On : 9 Oct 20 13:22 Operator: MA
Sample : 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y009.D Vial: 9
Acq On : 9 Oct 20 13:48 Operator: MA
Sample : 60ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216571	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.54	136	878795	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	534725	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1053468	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	1089141	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1050067	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	1008016	125.29412 ppb	0.00
Spiked Amount 200.000			Recovery =	62.647%	
6) Phenol-D6 (S)	4.72	99	1279112	125.52613 ppb	0.00
Spiked Amount 200.000			Recovery =	62.763%	
22) Nitrobenzene-D5(S)	5.73	82	558172	60.40112 ppb	0.00
Spiked Amount 100.000			Recovery =	60.401%	
46) 2-Fluorobiphenyl(S)	7.78	172	1364427	61.24110 ppb	0.00
Spiked Amount 100.000			Recovery =	61.241%	
64) 2,4,6-Tribromophenol(S)	9.47	330	469118	124.81321 ppb	0.00
Spiked Amount 200.000			Recovery =	62.407%	
82) Terphenyl-D14(S)	12.15	244	1907032	61.50448 ppb	0.00
Spiked Amount 100.000			Recovery =	61.504%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.80	58	11498	5.79178	97
3) n-Nitrosodimethylamine	2.03	42	191741	73.03789 ppb	92
4) Pyridine	2.05	79	518538	63.81571 ppb	97
7) Phenol	4.73	94	748099	61.16494 ppb	90
8) Aniline	4.75	93	519488	61.41460 ppb	100
9) Bis (2-chloroethyl) ether	4.84	63	297281	61.72361 ppb	93
10) 2-Chlorophenol	4.88	128	615188	62.23602 ppb	97
11) 1,3-DCB	5.05	146	637943	59.27342 ppb	97
12) 1,4-DCB	5.13	146	653294	59.78144 ppb	97
13) Benzyl alcohol	5.26	108	342612	63.49552 ppb	94
14) 1,2-DCB	5.30	146	622802	60.88965 ppb	95
15) 2-Methylphenol	5.38	107	451461	59.30246 ppb	97
16) Bis (2-chloroisopropyl) et	5.42	45	380207	60.77988 ppb	99
17) Acetophenone	5.56	105	792795	65.72008 ppb	97
18) 3&4-Methylphenol	5.56	107	1271853	131.44142 ppb	95
19) n-Nitrosodi-n-propylamine	5.57	70	399356	63.14718 ppb	92
20) Hexachloroethane	5.67	117	234581	60.68586 ppb	87
23) Nitrobenzene	5.75	77	569847	60.34427 ppb	90
24) Isophorone	6.02	82	984676	60.10545 ppb	98
25) 2-Nitrophenol	6.10	139	357079	61.78090 ppb	89
26) 2,4-Dimethylphenol	6.15	122	544911	62.54555 ppb	97
27) Benzoic acid	6.27	105	385661	64.98344 ppb	95
28) Bis (2-chloroethoxy) metha	6.27	93	628272	61.06410 ppb	98
29) 2,4-Dichlorophenol	6.37	162	544386	62.06367 ppb	97
30) 1,2,4-Trichlorobenzene	6.47	180	598326	60.18124 ppb	96
31) 3,4-Dimethylphenol	6.49	107	762165	61.88477 ppb	99
32) Naphthalene	6.55	128	1729992	59.78318 ppb	99
33) 4-Chloroaniline	6.62	127	754065	66.27087 ppb	96
34) 2,6-Dichlorophenol	6.63	162	541705	62.07037 ppb	97
35) Hexachloropropene	6.66	213	447295	60.04818 ppb	99
36) Hexachlorobutadiene	6.70	225	369578	60.76379 ppb	99
37) Caprolactum	7.04	55	181238	62.19962 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y009.D Vial: 9
Acq On : 9 Oct 20 13:48 Operator: MA
Sample : 60ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	559643	63.32936 ppb		95
39)	2-Methylnaphthalene	7.34	142	1177796	60.57965 ppb		99
40)	1-Methylnaphthalene	7.45	142	1234148	61.74353 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	516096	83.27665 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	668403	62.65001 ppb		98
44)	2,4,6-Trichlorophenol	7.67	196	440643	64.95683 ppb		97
45)	2,4,5-Trichlorophenol	7.71	196	470012	65.02106 ppb	#	91
47)	1,1'-Biphenyl	7.89	154	1591238	62.58220 ppb		98
48)	2-Chloronaphthalene	7.91	162	1245206	62.17213 ppb		97
49)	2-Nitroaniline	8.02	65	315928	62.70664 ppb		81
50)	Dimethyl phthalate	8.25	163	1479647	62.22764 ppb		99
51)	2,6-DNT	8.32	165	349882	63.68387 ppb		86
52)	Acenaphthylene	8.38	152	1881817	61.47692 ppb		99
53)	3-Nitroaniline	8.02	138	423264	63.40756 ppb		92
54)	Acenaphthene	8.59	154	1310275	66.41842 ppb		99
55)	2,4-Dinitrophenol	8.62	184	182908	58.39930 ppb		91
56)	4-Nitrophenol	8.70	65	246481	72.37691 ppb		96
57)	Dibenzofuran	8.79	168	1811009	63.65514 ppb		97
58)	2,4-DNT	8.78	165	497859	66.05799 ppb		95
59)	2,3,4,6-Tetrachlorophenol	8.93	232	395509	68.65791 ppb		96
60)	Diethyl phthalate	9.08	149	1460883	63.51663 ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	843816	64.02884 ppb		92
62)	Fluorene	9.19	166	1504737	62.79109 ppb		100
63)	4-Nitroaniline	8.50	138	347408	62.32887 ppb		92
66)	4,6-Dinitro-2-methylphenol	9.26	198	331067	63.75362 ppb		96
67)	Diphenyl amine	9.34	169	2444378	123.21803 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	2444378	123.21803 ppb		99
69)	1,2-Diphenylhydrazine	9.39	77	1175442	56.67260 ppb		91
70)	4-Bromophenyl phenyl ether	9.77	248	490153	60.74659 ppb	#	88
71)	Hexachlorobenzene	9.82	284	519777	60.39622 ppb	#	83
72)	Atrazine	9.97	200	229178	31.17709 ppb		96
73)	Pentachlorophenol	10.05	266	370963	78.87552 ppb		97
74)	Phenanthrene	10.30	178	2171501	60.73335 ppb		100
75)	Anthracene	10.37	178	2316830	62.64649 ppb		99
76)	Carbazol	10.56	167	2027916	60.86531 ppb		98
77)	Di-n-butylphthalate	10.99	149	2587194	64.24978 ppb		99
78)	Fluoranthene	11.70	202	2578280	62.29077 ppb		98
80)	Benzidine	11.85	184	797359	62.63243 ppb	#	98
81)	Pyrene	11.96	202	2633995	61.41393 ppb		99
83)	Butyl benzylphthalate	12.74	149	1122344	61.77318 ppb	#	81
84)	3,3'-Dichlorobenzidine	13.33	252	913703	64.03000 ppb		98
85)	Benz (a) anthracene	13.35	228	2708309	60.92803 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.41	149	1563586	62.67403 ppb	#	94
87)	Chrysene	13.40	228	2513650	61.59902 ppb		99
88)	Di-n-octylphthalate	14.15	149	2692154	63.51796 ppb		96
90)	Benzo (b) fluoranthene	14.58	252	2761032	63.16662 ppb		99
91)	Benzo (k) fluoranthene	14.62	252	2236355	61.03467 ppb		99
92)	Benzo (a) pyrene	15.00	252	2399690	62.67216 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.76	276	2670757	69.38547 ppb		99
94)	Dibenz (a,h) anthracene	16.80	278	2342060	60.46373 ppb		97
95)	Benzo (g,h,i) perylene	17.26	276	2296516	60.89490 ppb		100

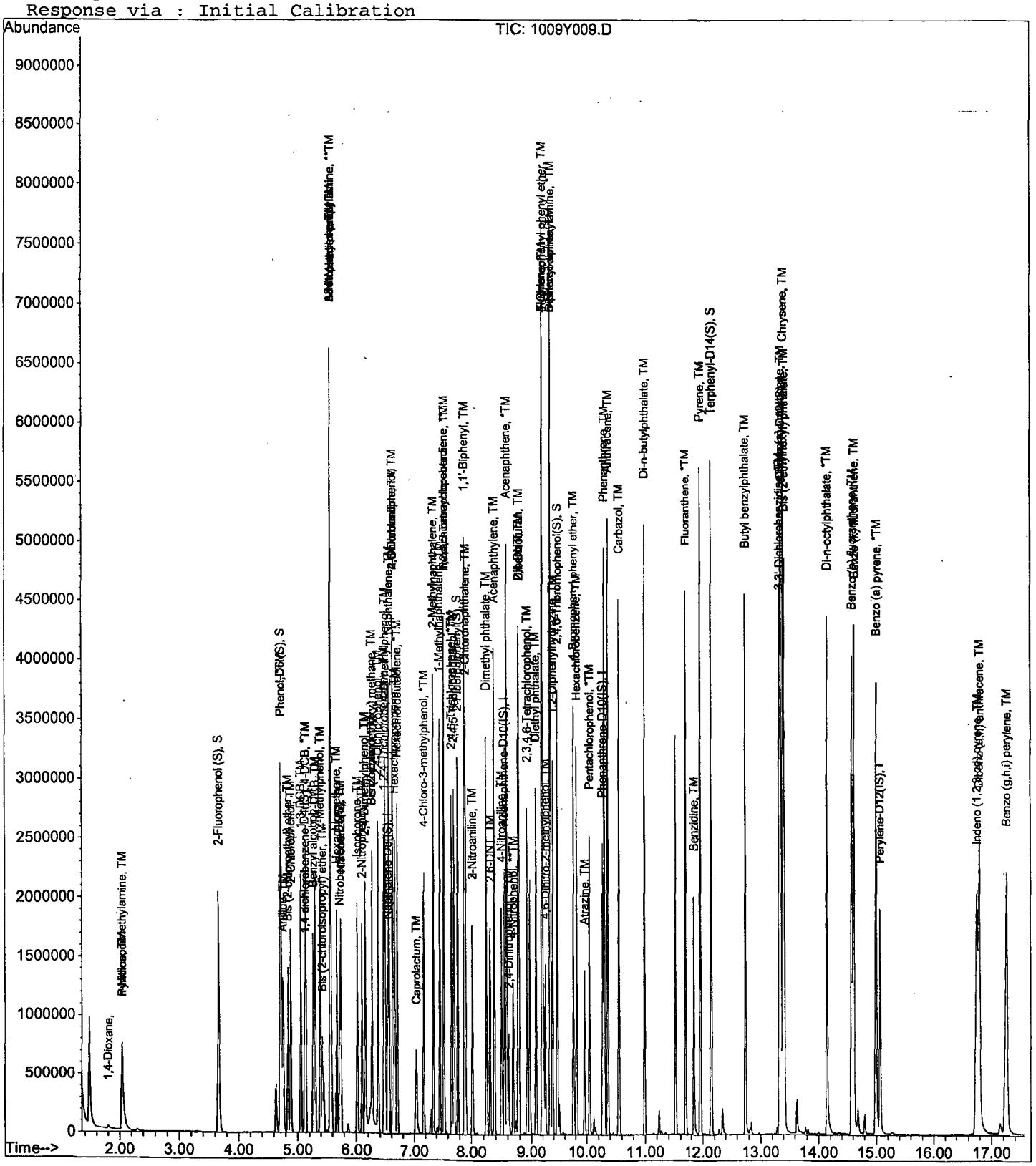
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y009.D Vial: 9
Acq On : 9 Oct 20 13:48 Operator: MA
Sample : 60ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:30 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y010.D Vial: 10
Acq On : 9 Oct 20 14:13 Operator: MA
Sample : 80ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:31 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	199908	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	822746	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	511195	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	992166	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.37	240	1029591	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	1003036	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.66	112	1307580	176.07661 ppb	0.00
Spiked Amount 200.000			Recovery =	88.039%	
6) Phenol-D6 (S)	4.72	99	1668447	177.38141 ppb	0.01
Spiked Amount 200.000			Recovery =	88.691%	
22) Nitrobenzene-D5(S)	5.73	82	724439	83.73375 ppb	0.00
Spiked Amount 100.000			Recovery =	83.734%	
46) 2-Fluorobiphenyl(S)	7.78	172	1772965	83.24089 ppb	0.00
Spiked Amount 100.000			Recovery =	83.241%	
64) 2,4,6-Tribromophenol(S)	9.48	330	664642	184.97376 ppb	0.00
Spiked Amount 200.000			Recovery =	92.487%	
82) Terphenyl-D14(S)	12.16	244	2566414	87.55780 ppb	0.00
Spiked Amount 100.000			Recovery =	87.558%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.80	58	16101	8.78643	93
3) n-Nitrosodimethylamine	2.03	42	245706	101.39560 ppb	98
4) Pyridine	2.05	79	674374	89.91207 ppb	97
7) Phenol	4.73	94	946942	83.87586 ppb	94
8) Aniline	4.76	93	595648	76.28794 ppb	100
9) Bis (2-chloroethyl) ether	4.83	63	381747	85.86772 ppb	97
10) 2-Chlorophenol	4.88	128	777140	85.17327 ppb	94
11) 1,3-DCB	5.06	146	823911	82.93322 ppb	99
12) 1,4-DCB	5.14	146	836229	82.89972 ppb	99
13) Benzyl alcohol	5.27	108	435239	87.38531 ppb	97
14) 1,2-DCB	5.30	146	779749	82.58828 ppb	98
15) 2-Methylphenol	5.39	107	577025	82.11400 ppb	97
16) Bis (2-chloroisopropyl) et	5.43	45	483628	83.75703 ppb	99
17) Acetophenone	5.57	105	1004527	90.21296 ppb	97
18) 3&4-Methylphenol	5.57	107	1626995	182.15944 ppb	97
19) n-Nitrosodi-n-propylamine	5.60	70	504518	86.42523 ppb	97
20) Hexachloroethane	5.67	117	301343	84.45510 ppb	76
23) Nitrobenzene	5.75	77	744324	84.19022 ppb	97
24) Isophorone	6.02	82	1271610	82.90795 ppb	96
25) 2-Nitrophenol	6.11	139	461361	85.26142 ppb	98
26) 2,4-Dimethylphenol	6.15	122	688220	84.37619 ppb	97
27) Benzoic acid	6.28	105	470524	83.22559 ppb	92
28) Bis (2-chloroethoxy) metha	6.26	93	802093	83.26927 ppb	100
29) 2,4-Dichlorophenol	6.37	162	698975	85.11654 ppb	98
30) 1,2,4-Trichlorobenzene	6.47	180	757691	81.40239 ppb	97
31) 3,4-Dimethylphenol	6.49	107	976963	84.72951 ppb	99
32) Naphthalene	6.56	128	2249726	83.03981 ppb	100
33) 4-Chloroaniline	6.63	127	917641	86.14072 ppb #	92
34) 2,6-Dichlorophenol	6.63	162	689918	84.43855 ppb	99
35) Hexachloropropene	6.65	213	576739	82.70026 ppb	98
36) Hexachlorobutadiene	6.70	225	468931	82.35111 ppb	99
37) Caprolactum	7.05	55	228208	83.65485 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y010.D Vial: 10
Acq On : 9 Oct 20 14:13 Operator: MA
Sample : 80ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:31 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:30:22 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	714169	86.32107	ppb		93
39)	2-Methylnaphthalene	7.35	142	1555911	85.47975	ppb		100
40)	1-Methylnaphthalene	7.46	142	1569961	83.89477	ppb		100
42)	Hexachlorocyclopentadiene	7.54	237	481920	81.37334	ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	851260	83.46201	ppb		99
44)	2,4,6-Trichlorophenol	7.67	196	579509	89.35977	ppb		96
45)	2,4,5-Trichlorophenol	7.71	196	595401	86.15859	ppb		96
47)	1,1'-Biphenyl	7.89	154	2005696	82.51344	ppb		99
48)	2-Chloronaphthalene	7.91	162	1580519	82.54641	ppb		98
49)	2-Nitroaniline	8.03	65	410286	85.18361	ppb		93
50)	Dimethyl phthalate	8.26	163	1938212	85.26492	ppb		98
51)	2,6-DNT	8.32	165	439964	83.76622	ppb		92
52)	Acenaphthylene	8.39	152	2480932	84.78001	ppb		100
53)	3-Nitroaniline	8.03	138	542486	85.00846	ppb		97
54)	Acenaphthene	8.59	154	1597192	84.68902	ppb		99
55)	2,4-Dinitrophenol	8.62	184	244773	76.18312	ppb		92
56)	4-Nitrophenol	8.70	65	312094	95.86188	ppb		90
57)	Dibenzofuran	8.79	168	2310205	84.93903	ppb		99
58)	2,4-DNT	8.78	165	635264	88.16924	ppb		90
59)	2,3,4,6-Tetrachlorophenol	8.93	232	513386	93.22279	ppb		99
60)	Diethyl phthalate	9.09	149	1863223	84.73850	ppb		98
61)	4-Chlorophenyl phenyl ethe	9.20	204	1101504	87.42947	ppb		97
62)	Fluorene	9.19	166	1957666	85.45154	ppb		99
63)	4-Nitroaniline	8.51	138	444753	83.46650	ppb	#	73
66)	4,6-Dinitro-2-methylphenol	9.26	198	429156	87.74880	ppb	#	87
67)	Diphenyl amine	9.35	169	3170279	169.68381	ppb		100
68)	n-Nitrosodiphenylamine	9.35	169	3170279	169.68381	ppb		100
69)	1,2-Diphenylhydrazine	9.38	77	1513036	77.45656	ppb		100
70)	4-Bromophenyl phenyl ether	9.77	248	638815	84.06251	ppb		98
71)	Hexachlorobenzene	9.83	284	684444	84.44378	ppb		99
72)	Atrazine	9.97	200	286672	41.40806	ppb		99
73)	Pentachlorophenol	10.05	266	481637	108.73478	ppb		99
74)	Phenanthrene	10.31	178	2802193	83.21513	ppb		100
75)	Anthracene	10.37	178	2915092	83.69353	ppb		100
76)	Carbazol	10.56	167	2679776	85.39951	ppb		96
77)	Di-n-butylphthalate	10.99	149	3209640	84.63227	ppb		100
78)	Fluoranthene	11.69	202	3251828	83.41770	ppb		99
80)	Benzidine	11.85	184	891315	72.96077	ppb	#	96
81)	Pyrene	11.95	202	3422797	84.42138	ppb		100
83)	Butyl benzylphthalate	12.74	149	1466865	85.40504	ppb		99
84)	3,3'-Dichlorobenzidine	13.34	252	1151082	85.33046	ppb	#	95
85)	Benz (a) anthracene	13.36	228	3475329	82.70547	ppb		100
86)	Bis (2-ethylhexyl) phthala	13.42	149	2058241	87.27331	ppb		98
87)	Chrysene	13.40	228	3362601	87.16933	ppb		100
88)	Di-n-octylphthalate	14.15	149	3486511	87.01760	ppb		99
90)	Benzo (b) fluoranthene	14.58	252	3298763	79.00740	ppb		98
91)	Benzo (k) fluoranthene	14.62	252	3148776	89.96594	ppb		98
92)	Benzo (a) pyrene	15.01	252	3081952	84.26473	ppb		98
93)	Indeno (1,2,3-cd) pyrene	16.76	276	3443782	93.66348	ppb		100
94)	Dibenz (a,h) anthracene	16.81	278	3035076	82.02892	ppb		96
95)	Benzo (g,h,i) perylene	17.27	276	2946677	81.79833	ppb		97

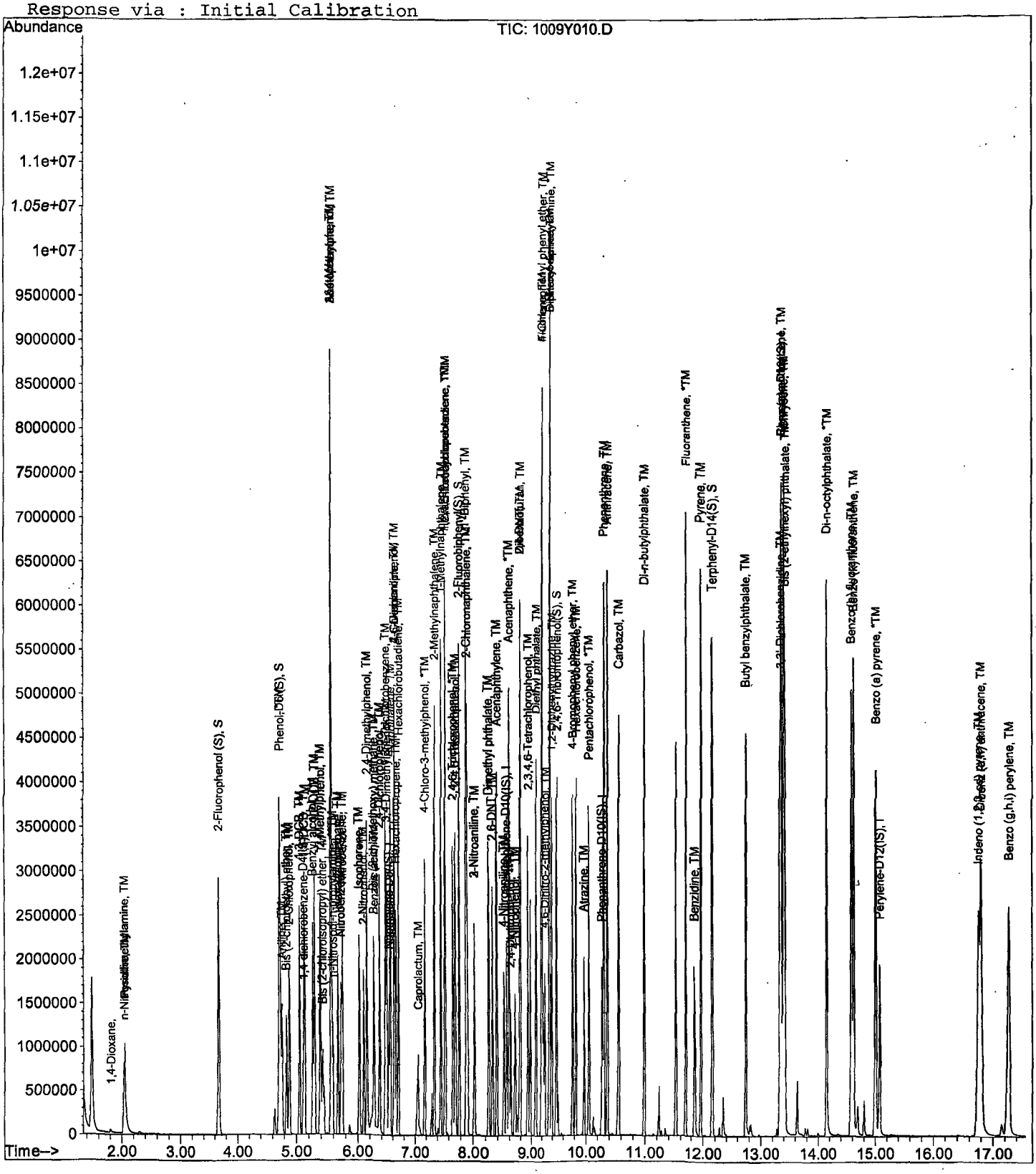
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y010.D Vial: 10
Acq On : 9 Oct 20 14:13 Operator: MA
Sample : 80ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:31 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y011.D Vial: 11
Acq On : 9 Oct 20 14:38 Operator: MA
Sample : 100ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:48 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:48:37 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	234180	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	972023	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.56	164	590025	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	1196320	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.38	240	1245991	40.00000 ppb	0.02
89) Perylene-D12(IS)	15.08	264	1198755	40.00000 ppb	0.02
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	1936097	213.31149 ppb	0.01
Spiked Amount 200.000			Recovery	= 106.656%	
6) Phenol-D6 (S)	4.73	99	2450115	214.12626 ppb	0.02
Spiked Amount 200.000			Recovery	= 107.063%	
22) Nitrobenzene-D5(S)	5.73	82	1058683	104.12375 ppb	0.01
Spiked Amount 100.000			Recovery	= 104.124%	
46) 2-Fluorobiphenyl(S)	7.78	172	2603920	104.70949 ppb	0.00
Spiked Amount 100.000			Recovery	= 104.709%	
64) 2,4,6-Tribromophenol(S)	9.49	330	1038078	243.20617 ppb	0.01
Spiked Amount 200.000			Recovery	= 121.603%	
82) Terphenyl-D14(S)	12.16	244	3840871	106.94020 ppb	0.00
Spiked Amount 100.000			Recovery	= 106.940%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.81	58	18198	8.66444	96
3) n-Nitrosodimethylamine	2.03	42	339228	104.48193 ppb	99
4) Pyridine	2.05	79	921056	101.43260 ppb	98
7) Phenol	4.74	94	1379601	105.26624 ppb	88
8) Aniline	4.76	93	764224	75.33429 ppb	100
9) Bis (2-chloroethyl) ether	4.84	63	542689	102.47863 ppb	97
10) 2-Chlorophenol	4.89	128	1124033	103.02814 ppb	97
11) 1,3-DCB	5.06	146	1160721	99.54557 ppb	97
12) 1,4-DCB	5.14	146	1193185	100.25418 ppb	98
13) Benzyl alcohol	5.28	108	637158	104.43694 ppb	97
14) 1,2-DCB	5.30	146	1125378	100.61606 ppb	99
15) 2-Methylphenol	5.39	107	839012	103.90643 ppb	97
16) Bis (2-chloroisopropyl) et	5.43	45	696813	100.35717 ppb	100
17) Acetophenone	5.57	105	1482877	105.28115 ppb	89
18) 3&4-Methylphenol	5.58	107	2373694	211.68938 ppb	96
19) n-Nitrosodi-n-propylamine	5.60	70	713820	100.61361 ppb	96
20) Hexachloroethane	5.68	117	425851	101.53827 ppb	93
23) Nitrobenzene	5.75	77	1059867	101.22529 ppb	90
24) Isophorone	6.04	82	1847460	103.03444 ppb	98
25) 2-Nitrophenol	6.11	139	657732	104.31740 ppb	89
26) 2,4-Dimethylphenol	6.16	122	1017298	103.28111 ppb	98
27) Benzoic acid	6.32	105	647906	90.40887 ppb	95
28) Bis (2-chloroethoxy) metha	6.27	93	1161742	102.05205 ppb	98
29) 2,4-Dichlorophenol	6.38	162	1014783	103.55586 ppb	98
30) 1,2,4-Trichlorobenzene	6.47	180	1122465	102.78304 ppb	99
31) 3,4-Dimethylphenol	6.50	107	1392083	101.16261 ppb	99
32) Naphthalene	6.56	128	3258921	102.24622 ppb	99
33) 4-Chloroaniline	6.63	127	1265642	94.38186 ppb	98
34) 2,6-Dichlorophenol	6.64	162	1011491	104.73826 ppb	97
35) Hexachloropropene	6.66	213	854165	107.47308 ppb	99
36) Hexachlorobutadiene	6.70	225	686312	102.32413 ppb	99
37) Caprolactum	7.08	55	334644	104.86032 ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y011.D Vial: 11
Acq On : 9 Oct 20 14:38 Operator: MA
Sample : 100ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:48 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:48:37 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	1042700	104.11119	ppb	94
39)	2-Methylnaphthalene	7.35	142	2223045	103.34364	ppb	100
40)	1-Methylnaphthalene	7.46	142	2296876	103.10412	ppb	99
42)	Hexachlorocyclopentadiene	7.54	237	974336	110.88585	ppb	99
43)	1,2,4,5-Tetrachlorobenzene	7.55	216	1284262	107.88153	ppb	98
44)	2,4,6-Trichlorophenol	7.68	196	841149	106.44387	ppb	98
45)	2,4,5-Trichlorophenol	7.72	196	887080	107.15160	ppb	96
47)	1,1'-Biphenyl	7.90	154	3032625	106.85905	ppb	99
48)	2-Chloronaphthalene	7.92	162	2355156	104.92684	ppb	98
49)	2-Nitroaniline	8.03	65	608089	108.58922	ppb	81
50)	Dimethyl phthalate	8.26	163	2796128	104.11497	ppb	99
51)	2,6-DNT	8.32	165	645515	108.19239	ppb	98
52)	Acenaphthylene	8.39	152	3616990	105.04111	ppb	100
53)	3-Nitroaniline	8.04	138	821534	111.08507	ppb	96
54)	Acenaphthene	8.59	154	2335278	102.06025	ppb	99
55)	2,4-Dinitrophenol	8.63	184	389765	105.34252	ppb	95
56)	4-Nitrophenol	8.71	65	474507	119.01514	ppb	97
57)	Dibenzofuran	8.80	168	3493296	107.17658	ppb	96
58)	2,4-DNT	8.79	165	930649	109.63231	ppb	89
59)	2,3,4,6-Tetrachlorophenol	8.94	232	752679	108.86610	ppb	94
60)	Diethyl phthalate	9.10	149	2737766	104.37047	ppb	100
61)	4-Chlorophenyl phenyl ethe	9.21	204	1664349	110.03777	ppb	87
62)	Fluorene	9.20	166	2940280	109.05817	ppb	100
63)	4-Nitroaniline	8.51	138	625089	100.98447	ppb	96
66)	4,6-Dinitro-2-methylphenol	9.27	198	649905	128.95708	ppb	99
67)	Diphenyl amine	9.36	169	4748951	209.69183	ppb	100
68)	n-Nitrosodiphenylamine	9.36	169	4748951	209.69183	ppb	100
69)	1,2-Diphenylhydrazine	9.39	77	2225656	101.51080	ppb	90
70)	4-Bromophenyl phenyl ether	9.77	248	951261	106.18835	ppb #	90
71)	Hexachlorobenzene	9.83	284	1013970	105.31842	ppb #	85
72)	Atrazine	9.98	200	428874	51.53333	ppb	98
73)	Pentachlorophenol	10.06	266	744723	118.13417	ppb	98
74)	Phenanthrene	10.31	178	4159271	102.39611	ppb	99
75)	Anthracene	10.38	178	4367316	103.45209	ppb	99
76)	Carbazol	10.56	167	3878089	102.12814	ppb	99
77)	Di-n-butylphthalate	11.00	149	4933775	107.36559	ppb	99
78)	Fluoranthene	11.70	202	5012062	106.71067	ppb	98
80)	Benzidine	11.86	184	1349972	97.67324	ppb #	98
81)	Pyrene	11.96	202	5009915	100.79799	ppb	100
83)	Butyl benzylphthalate	12.74	149	2184357	106.66433	ppb	88
84)	3,3'-Dichlorobenzidine	13.34	252	1673720	101.70510	ppb	98
85)	Benz (a) anthracene	13.36	228	5304645	105.99160	ppb	100
86)	Bis (2-ethylhexyl) phthala	13.42	149	3048518	106.15141	ppb	99
87)	Chrysene	13.40	228	5009685	104.01725	ppb	99
88)	Di-n-octylphthalate	14.15	149	5241077	111.45361	ppb #	93
90)	Benzo (b) fluoranthene	14.59	252	5155192	110.83607	ppb	99
91)	Benzo (k) fluoranthene	14.63	252	4542937	100.83056	ppb	98
92)	Benzo (a) pyrene	15.02	252	4685422	110.17104	ppb	98
93)	Indeno (1,2,3-cd) pyrene	16.77	276	5149976	107.25377	ppb	97
94)	Dibenz (a,h) anthracene	16.83	278	4621429	110.48379	ppb	95
95)	Benzo (g,h,i) perylene	17.29	276	4391087	105.26855	ppb	98

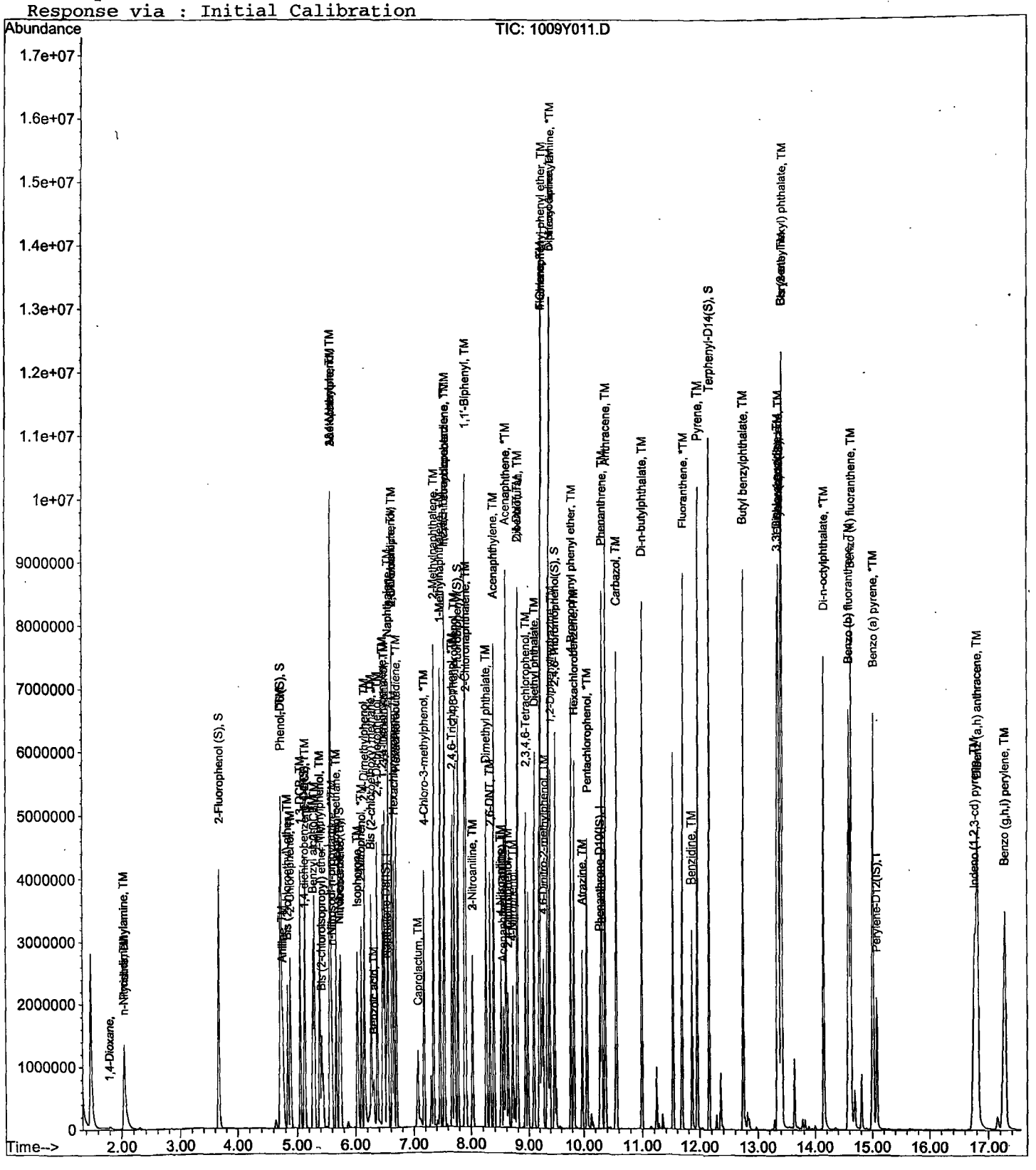
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y011.D Vial: 11
Acq On : 9 Oct 20 14:38 Operator: MA
Sample : 100ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 14:48 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
1		1,4-Dioxane	0.3588	0.3840	7.0		
2	TM	n-Nitrosodimethylamine	0.5546	0.6000	8.2	TM	
3	TM	Pyridine	1.551	1.511	2.6	TM	
4	*TM	Phenol	2.239	2.219	0.88	*TM	
5	TM	Aniline	1.755	1.852	5.5	TM	
6	TM	Bis (2-chloroethyl) ether	0.9045	0.8733	3.4	TM	
7	TM	2-Chlorophenol	1.864	1.873	0.51	TM	
8	TM	1,3-DCB	1.992	2.059	3.4	TM	
9	*TM	1,4-DCB	2.033	2.070	1.8	*TM	
10	TM	Benzyl alcohol	1.042	1.029	1.2	TM	
11	TM	1,2-DCB	1.910	1.941	1.6	TM	
12	TM	2-Methylphenol	1.379	1.341	2.8	TM	
13	TM	Bis (2-chloroisopropyl) ether	1.186	1.133	4.5	TM	
14	TM	Acetophenone	2.406	2.331	3.1	TM	
15	TM	3&4-Methylphenol	1.915	1.919	0.18	TM	
16	**TM	n-Nitrosodi-n-propylamine	1.212	1.184	2.3	**TM	
17	TM	Hexachloroethane	0.7164	0.7439	3.8	TM	
18	TM	Nitrobenzene	0.4309	0.4428	2.8	TM	
19	TM	Isophorone	0.7379	0.7698	4.3	TM	
20	*TM	2-Nitrophenol	0.2595	0.2685	3.5	*TM	
21	TM	2,4-Dimethylphenol	0.4053	0.4011	1.0	TM	
22	TML	Benzoic acid	0.2281	0.3005	32	TML	9.1
23	TM	Bis (2-chloroethoxy) methane	0.4685	0.4517	3.6	TM	
24	*TM	2,4-Dichlorophenol	0.4033	0.4044	0.27	*TM	
25	TM	1,2,4-Trichlorobenzene	0.4494	0.4623	2.9	TM	
26	TM	3,4-Dimethylphenol	0.5663	0.5509	2.7	TM	
27	TM	Naphthalene	1.312	1.311	0.02	TM	
28	TM	4-Chloroaniline	0.5518	0.5476	0.77	TM	
29	TM	2,6-Dichlorophenol	0.3974	0.3950	0.60	TM	
30	TM	Hexachloropropene	0.3271	0.3385	3.5	TM	
31	*TM	Hexachlorobutadiene	0.2760	0.2880	4.3	*TM	
32	TM	Caprolactum	0.1313	0.1297	1.2	TM	
33	*TM	4-Chloro-3-methylphenol	0.4121	0.4175	1.3	*TM	
34	TM	2-Methylnaphthalene	0.8852	0.9660	9.1	TM	
35	TM	1-Methylnaphthalene	0.9167	0.9017	1.6	TM	
36	**TM	Hexachlorocyclopentadiene	0.5574	0.5527	0.84	**TM	
37	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.7867	2.5	TM	
38	*TM	2,4,6-Trichlorophenol	0.5357	0.5317	0.76	*TM	
39	TM	2,4,5-Trichlorophenol	0.5612	0.5730	2.1	TM	
40	TM	1,1'-Biphenyl	1.924	1.880	2.3	TM	
		Average			3.4		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	2-Chloronaphthalene	1.522	1.530	0.52	TM	
42	TM	2-Nitroaniline	0.3796	0.3919	3.2	TM	
43	TM	Dimethyl phthalate	1.821	1.754	3.7	TM	
44	TM	2,6-DNT	0.4045	0.4267	5.5	TM	
45	TM	Acenaphthylene	2.334	2.281	2.3	TM	
46	TM	3-Nitroaniline	0.5014	0.5212	4.0	TM	
47	*TM	Acenaphthene	1.551	1.552	0.05	*TM	
48	**TML	2,4-Dinitrophenol	0.1987	0.2081	4.7	**TML	0.27
49	**TM	4-Nitrophenol	0.2824	0.2943	4.2	**TM	
50	TM	Dibenzofuran	2.210	2.160	2.3	TM	
51	TM	2,4-DNT	0.5755	0.6014	4.5	TM	
52	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4860	3.7	TM	
53	TM	Diethyl phthalate	1.778	1.698	4.5	TM	
54	TM	4-Chlorophenyl phenyl ether	1.025	0.9806	4.4	TM	
55	TM	Fluorene	1.828	1.777	2.8	TM	
56	TM	4-Nitroaniline	0.4196	0.4194	0.06	TM	
57	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2041	4.9	TM	
58	TM	Diphenyl amine	0.7572	0.7578	0.07	TM	
59	*TM	n-Nitrosodiphenylamine	0.7572	0.7578	0.07	*TM	
60	TM	1,2-Diphenylhydrazine	0.7331	0.7678	4.7	TM	
61	TM	4-Bromophenyl phenyl ether	0.2995	0.2940	1.8	TM	
62	TM	Hexachlorobenzene	0.3219	0.3228	0.27	TM	
63	TM	Atrazine	0.2783	0.2851	2.5	TM	
64	*TM	Pentachlorophenol	0.2190	0.2289	4.5	*TM	
65	TM	Phenanthrene	1.358	1.342	1.2	TM	
66	TM	Anthracene	1.412	1.409	0.20	TM	
67	TM	Carbazol	1.270	1.264	0.43	TM	
68	TM	Di-n-butylphthalate	1.536	1.511	1.7	TM	
69	*TM	Fluoranthene	1.570	1.560	0.67	*TM	
70	TM	Benzidine	0.4483	0.5235	17	TM	
71	TM	Pyrene	1.596	1.586	0.61	TM	
72	TM	Butyl benzylphthalate	0.6574	0.6699	1.9	TM	
73	TM	3,3'-Dichlorobenzidine	0.5283	0.5702	7.9	TM	
74	TM	Benz (a) anthracene	1.607	1.576	1.9	TM	
75	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9398	1.9	TM	
76	TM	Chrysene	1.546	1.515	2.0	TM	
77	*TM	Di-n-octylphthalate	1.510	1.579	4.6	*TM	
78	TM	Benzo (b) fluoranthene	1.552	1.621	4.4	TM	
79	TM	Benzo (k) fluoranthene	1.503	1.517	0.88	TM	
80	*TM	Benzo (a) pyrene	1.419	1.463	3.1	*TM	
		Average			3.0		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 9 Oct 20 15:04
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y012.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.602	1.568	2.1	TM	
82	TM	Dibenz (a,h) anthracene	1.396	1.434	2.7	TM	
83	TM	Benzo (g,h,i) perylene	1.392	1.406	1.00	TM	
84							
85							
86							
87							
88							
89							
90							
91							
92							
93							
94							
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113							
114							
115							
116							
117							
118							
119							
120							
		Average			1.9		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.12	152	216183	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	873280	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	536403	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	1035458	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.37	240	1061772	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.07	264	1035051	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0	0.00000 ppb		
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0	0.00000 ppb		
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5(S)	5.68	82	44035	4.82064 ppb		-0.05
Spiked Amount 100.000			Recovery =	4.821%		
46) 2-Fluorobiphenyl(S)	7.71	172	695	0.03074 ppb		-0.06
Spiked Amount 100.000			Recovery =	0.031%		
64) 2,4,6-Tribromophenol(S)	9.47	330	157	0.04046 ppb		0.00
Spiked Amount 200.000			Recovery =	0.020%		
82) Terphenyl-D14(S)	0.00	244	0	0.00000 ppb		
Spiked Amount 100.000			Recovery =	0.000%		
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	10377	5.35201		83
3) n-Nitrosodimethylamine	2.03	42	162139	54.09601 ppb		99
4) Pyridine	2.05	79	408244	48.70119 ppb		100
7) Phenol	4.72	94	599636	49.56231 ppb		94
8) Aniline	4.76	93	500352	52.75609 ppb		97
9) Bis (2-chloroethyl) ether	4.83	63	236003	48.27565 ppb		97
10) 2-Chlorophenol	4.88	128	506162	50.25677 ppb		95
11) 1,3-DCB	5.06	146	556468	51.69667 ppb		98
12) 1,4-DCB	5.14	146	559251	50.90140 ppb		100
13) Benzyl alcohol	5.27	108	278105	49.37920 ppb		98
14) 1,2-DCB	5.30	146	524514	50.79889 ppb		99
15) 2-Methylphenol	5.39	107	362346	48.61004 ppb		99
16) Bis (2-chloroisopropyl) et	5.43	45	306191	47.76973 ppb		97
17) Acetophenone	5.57	105	629817	48.43822 ppb		97
18) 3&4-Methylphenol	5.57	107	1037012	100.18123 ppb		97
19) n-Nitrosodi-n-propylamine	5.57	70	320028	48.86346 ppb		91
20) Hexachloroethane	5.68	117	201028	51.92266 ppb		95
23) Nitrobenzene	5.74	77	483369	51.38537 ppb		89
24) Isophorone	6.02	82	840280	52.16202 ppb		98
25) 2-Nitrophenol	6.10	139	293131	51.74788 ppb	#	81
26) 2,4-Dimethylphenol	6.15	122	437860	49.48015 ppb		98
27) Benzoic acid	6.24	105	327995m	54.56581 ppb		97
28) Bis (2-chloroethoxy) metha	6.26	93	493099	48.21356 ppb		100
29) 2,4-Dichlorophenol	6.37	162	441395	50.13626 ppb		99
30) 1,2,4-Trichlorobenzene	6.47	180	504605	51.43079 ppb		98
31) 3,4-Dimethylphenol	6.49	107	601322	48.63904 ppb		98
32) Naphthalene	6.56	128	1431422	49.98782 ppb		100
33) 4-Chloroaniline	6.62	127	597741	49.61508 ppb		100
34) 2,6-Dichlorophenol	6.63	162	431213	49.70021 ppb		99
35) Hexachloropropene	6.66	213	369517	51.75060 ppb		98
36) Hexachlorobutadiene	6.70	225	314356	52.16765 ppb		99
37) Caprolactum	7.03	55	141607	49.38964 ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.17	107	455719	50.64752	ppb		99
39)	2-Methylnaphthalene	7.35	142	1054475	54.56257	ppb		100
40)	1-Methylnaphthalene	7.46	142	984333	49.18170	ppb		100
42)	Hexachlorocyclopentadiene	7.54	237	370560	49.57797	ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	527503	48.74136	ppb		100
44)	2,4,6-Trichlorophenol	7.66	196	356488	49.62173	ppb		96
45)	2,4,5-Trichlorophenol	7.71	196	384178	51.04434	ppb		99
47)	1,1'-Biphenyl	7.89	154	1260850	48.86920	ppb		99
48)	2-Chloronaphthalene	7.91	162	1025569	50.25867	ppb		99
49)	2-Nitroaniline	8.02	65	262797	51.62014	ppb		76
50)	Dimethyl phthalate	8.25	163	1175916	48.16279	ppb		99
51)	2,6-DNT	8.31	165	286088	52.74354	ppb		98
52)	Acenaphthylene	8.38	152	1529580	48.86112	ppb		99
53)	3-Nitroaniline	8.03	138	349489	51.98079	ppb		95
54)	Acenaphthene	8.58	154	1040624	50.02546	ppb		99
55)	2,4-Dinitrophenol	8.62	184	139500	50.13590	ppb		98
56)	4-Nitrophenol	8.70	65	197361	52.10820	ppb		93
57)	Dibenzofuran	8.79	168	1448178	48.87263	ppb		99
58)	2,4-DNT	8.78	165	403252	52.25266	ppb		98
59)	2,3,4,6-Tetrachlorophenol	8.93	232	325882	51.84686	ppb		99
60)	Diethyl phthalate	9.08	149	1138241	47.73036	ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	657483	47.81467	ppb		97
62)	Fluorene	9.19	166	1191367	48.60649	ppb		99
63)	4-Nitroaniline	8.50	138	281204	49.97047	ppb		95
66)	4,6-Dinitro-2-methylphenol	9.25	198	264110	52.42572	ppb		91
67)	Diphenyl amine	9.34	169	1961662	100.07437	ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1961662	100.07437	ppb		99
69)	1,2-Diphenylhydrazine	9.38	77	993810	52.36878	ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	380543	49.07901	ppb	#	81
71)	Hexachlorobenzene	9.83	284	417763	50.13304	ppb		95
72)	Atrazine	9.97	200	184523	25.61674	ppb		98
73)	Pentachlorophenol	10.05	266	296210	52.24180	ppb		99
74)	Phenanthrene	10.31	178	1736593	49.39457	ppb		99
75)	Anthracene	10.37	178	1823356	49.90120	ppb		100
76)	Carbazol	10.55	167	1636229	49.78363	ppb		100
77)	Di-n-butylphthalate	10.99	149	1955769	49.17204	ppb		100
78)	Fluoranthene	11.69	202	2019048	49.66528	ppb		99
80)	Benzidine	11.85	184	694739	58.38120	ppb	#	96
81)	Pyrene	11.95	202	2104725	49.69360	ppb		100
83)	Butyl benzylphthalate	12.73	149	889142	50.95072	ppb	#	77
84)	3,3'-Dichlorobenzidine	13.33	252	756835	53.96905	ppb		100
85)	Benz (a) anthracene	13.36	228	2092220	49.05758	ppb		99
86)	Bis (2-ethylhexyl) phthala	13.42	149	1247309	50.96766	ppb		99
87)	Chrysene	13.39	228	2011174	49.00363	ppb		99
88)	Di-n-octylphthalate	14.14	149	2096116	52.30853	ppb		99
90)	Benzo (b) fluoranthene	14.58	252	2096677	52.20793	ppb		99
91)	Benzo (k) fluoranthene	14.62	252	1962159	50.43806	ppb		100
92)	Benzo (a) pyrene	15.00	252	1893209	51.55680	ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.75	276	2028571	48.92899	ppb		98
94)	Dibenz (a,h) anthracene	16.79	278	1855439	51.37332	ppb		99
95)	Benzo (g,h,i) perylene	17.25	276	1818788	50.49837	ppb		99

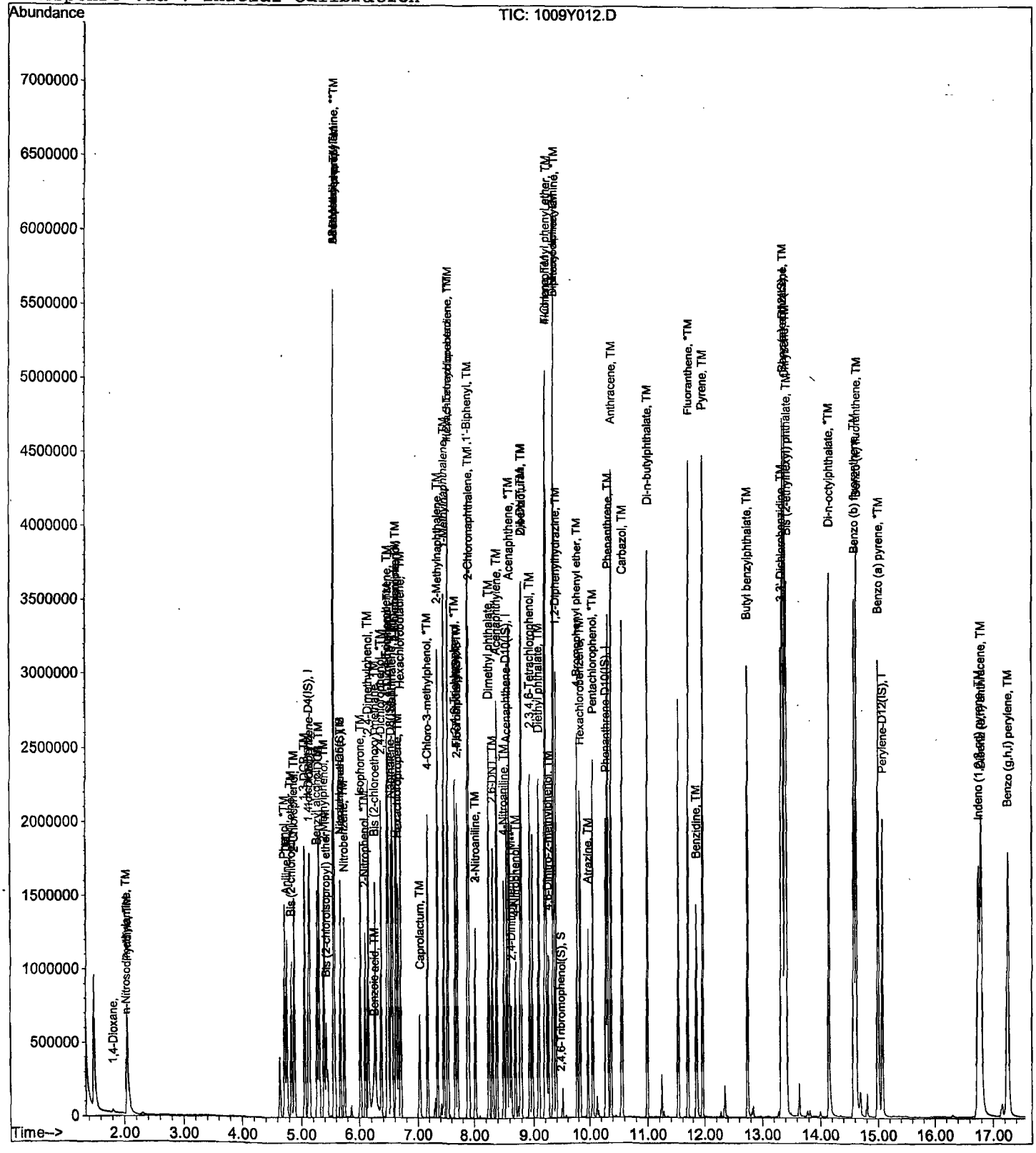
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 9 15:03 2020 Quant Results File: Y1009.RES

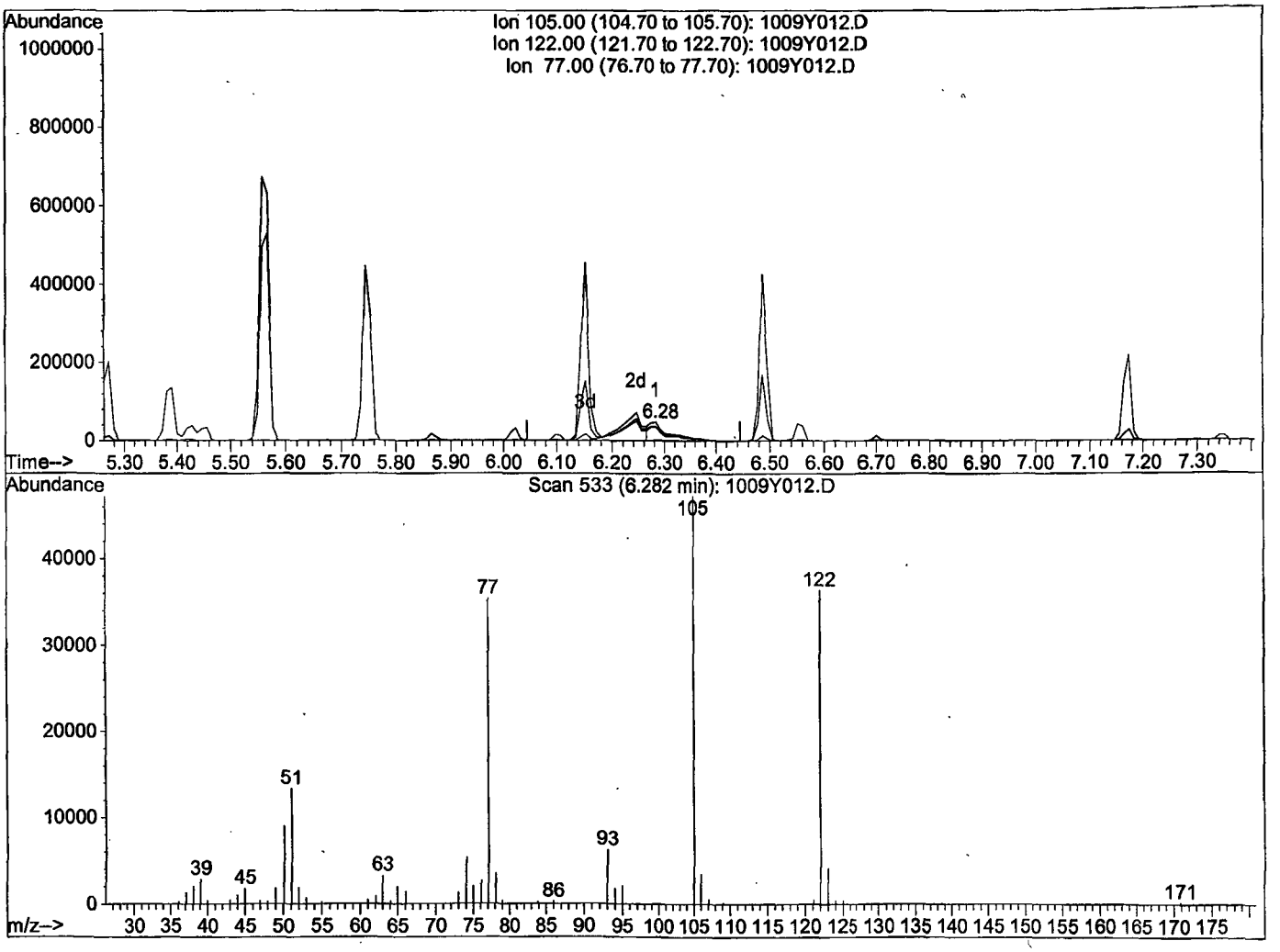
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 15:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y012.D

(27) Benzoic acid (TM)

6.28min 25.1987ppb

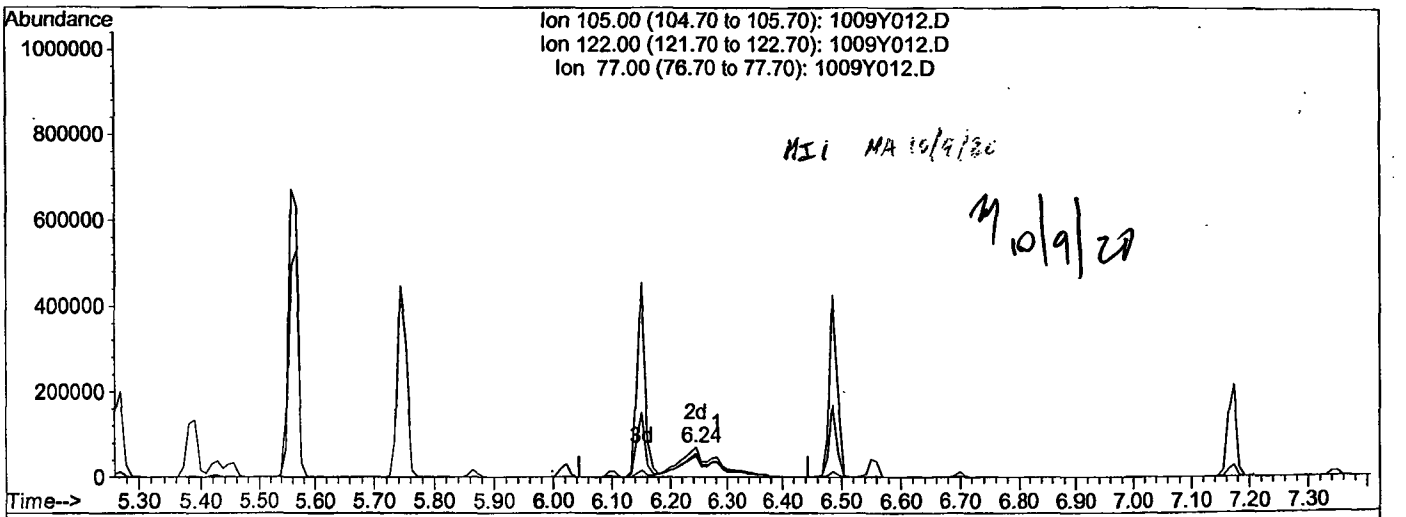
response 119810

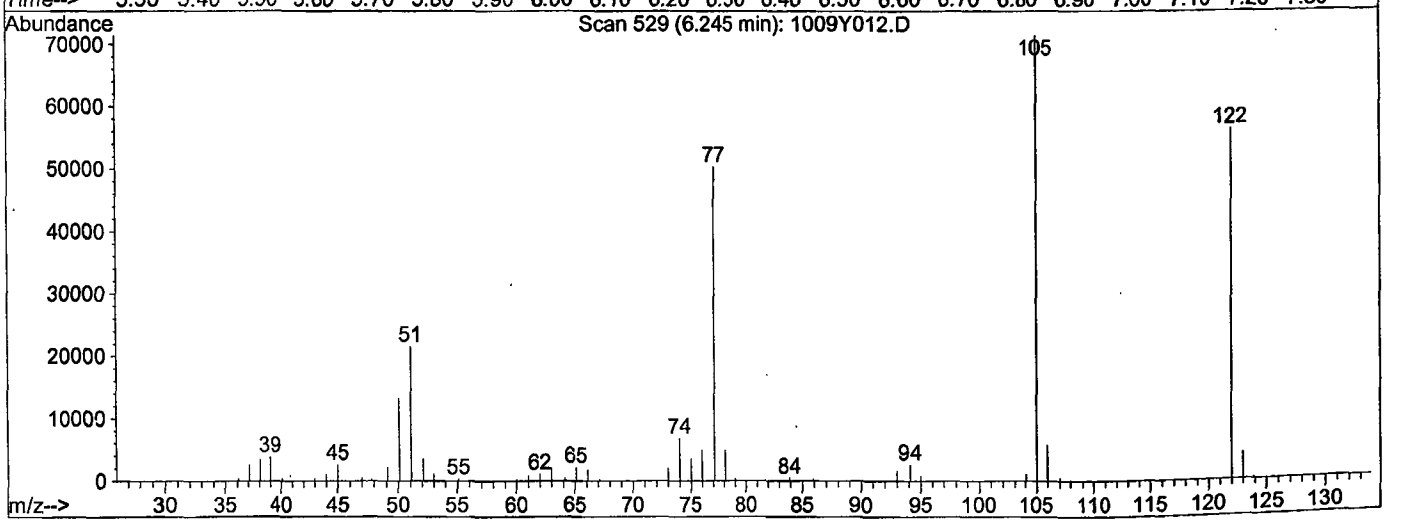
Ion	Exp%	Act%
105.00	100	100
122.00	78.10	76.27
77.00	70.50	74.55
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y012.D Vial: 12
Acq On : 9 Oct 20 15:04 Operator: MA
Sample : SS 50ug/mL 8270 7/22/20 Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 9 15:03 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y012.D

(27) Benzoic acid (TM)

6.24min 54.5658ppb m

response 327995

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	78.87
77.00	70.50	70.48
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y218.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3783	5.4		
3	TM	n-Nitrosodimethylamine	0.5546	0.5521	0.44	TM	
4	TM	Pyridine	1.551	1.687	8.8	TM	
5	S	2-Fluorophenol (S)	1.550	1.576	1.7	S	
6	S	Phenol-D6 (S)	1.954	2.000	2.3	S	
7	*TM	Phenol	2.239	2.309	3.1	*TM	
8	TM	Aniline	1.755	1.580	10.0	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9147	1.1	TM	
10	TM	2-Chlorophenol	1.864	1.882	0.99	TM	
11	TM	1,3-DCB	1.992	2.004	0.61	TM	
12	*TM	1,4-DCB	2.033	2.021	0.61	*TM	
13	TM	Benzyl alcohol	1.042	1.029	1.3	TM	
14	TM	1,2-DCB	1.910	1.911	0.04	TM	
15	TM	2-Methylphenol	1.379	1.413	2.5	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.251	5.5	TM	
17	TM	Acetophenone	2.406	2.354	2.2	TM	
18	TM	3&4-Methylphenol	1.915	1.918	0.13	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.192	1.6	**TM	
20	TM	Hexachloroethane	0.7164	0.7115	0.67	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4301	2.8	S	
23	TM	Nitrobenzene	0.4309	0.4259	1.2	TM	
24	TM	Isophorone	0.7379	0.7350	0.39	TM	
25	*TM	2-Nitrophenol	0.2595	0.2763	6.5	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4067	0.33	TM	
27	TML	Benzoic acid	0.2281	0.2592	14	TML	3.6
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4837	3.3	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4102	1.7	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4516	0.50	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5631	0.55	TM	
32	TM	Naphthalene	1.312	1.345	2.6	TM	
33	TM	4-Chloroaniline	0.5518	0.5032	8.8	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.3970	0.10	TM	
35	TM	Hexachloropropene	0.3271	0.3205	2.0	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2675	3.1	*TM	
37	TM	Caprolactum	0.1313	0.1374	4.6	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4017	2.5	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.8954	1.2	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9335	1.8	TM	
		Average			2.8		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/23/20
Matrix: 0 Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y218.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5600	0.47	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8097	0.33	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5400	0.79	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5748	2.4	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.721	2.1	S	
47	TM	1,1'-Biphenyl	1.924	1.964	2.1	TM	
48	TM	2-Chloronaphthalene	1.522	1.554	2.1	TM	
49	TM	2-Nitroaniline	0.3796	0.3795	0.04	TM	
50	TM	Dimethyl phthalate	1.821	1.827	0.33	TM	
51	TM	2,6-DNT	0.4045	0.4365	7.9	TM	
52	TM	Acenaphthylene	2.334	2.377	1.8	TM	
53	TM	3-Nitroaniline	0.5014	0.5356	6.8	TM	
54	*TM	Acenaphthene	1.551	1.518	2.1	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.1634	18	**TML	14
56	**TM	4-Nitrophenol	0.2824	0.2776	1.7	**TM	
57	TM	Dibenzofuran	2.210	2.242	1.4	TM	
58	TM	2,4-DNT	0.5755	0.5932	3.1	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4661	0.56	TM	
60	TM	Diethyl phthalate	1.778	1.734	2.5	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.011	1.4	TM	
62	TM	Fluorene	1.828	1.857	1.6	TM	
63	TM	4-Nitroaniline	0.4196	0.4404	4.9	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2927	1.1	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.1948	0.11	TM	
67	TM	Diphenyl amine	0.7572	0.7610	0.50	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7610	0.50	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7271	0.81	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3111	3.9	TM	
71	TM	Hexachlorobenzene	0.3219	0.3241	0.68	TM	
72	TM	Atrazine	0.2783	0.2797	0.50	TM	
73	*TM	Pentachlorophenol	0.2190	0.2118	3.3	*TM	
74	TM	Phenanthrene	1.358	1.364	0.46	TM	
75	TM	Anthracene	1.412	1.455	3.1	TM	
76	TM	Carbazol	1.270	1.281	0.89	TM	
77	TM	Di-n-butylphthalate	1.536	1.546	0.60	TM	
78	*TM	Fluoranthene	1.570	1.591	1.3	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.4719	5.3	TM	
		Average			2.4		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y218.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Pyrene	1.596	1.664	4.3	TM	
82	S	Terphenyl-D14(S)	1.153	1.216	5.5	S	
83	TM	Butyl benzylphthalate	0.6574	0.6933	5.5	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.5975	13	TM	
85	TM	Benz (a) anthracene	1.607	1.665	3.7	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9738	5.6	TM	
87	TM	Chrysene	1.546	1.619	4.7	TM	
88	*TM	Di-n-octylphthalate	1.510	1.679	11	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.568	1.0	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.520	1.1	TM	
92	*TM	Benzo (a) pyrene	1.419	1.483	4.5	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.689	5.4	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.502	7.6	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.464	5.1	TM	
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			5.6		

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 13:45 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	157272	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	623624	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	374698	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	731491	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	731177	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	742323	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	619719	101.66708 ppb	0.01
Spiked Amount 200.000			Recovery = 50.834%		
6) Phenol-D6 (S)	4.72	99	786266	102.31784 ppb	0.01
Spiked Amount 200.000			Recovery = 51.159%		
22) Nitrobenzene-D5(S)	5.73	82	335264	51.39543 ppb	0.00
Spiked Amount 100.000			Recovery = 51.395%		
46) 2-Fluorobiphenyl(S)	7.77	172	806148	51.04606 ppb	0.00
Spiked Amount 100.000			Recovery = 51.046%		
64) 2,4,6-Tribromophenol(S)	9.47	330	274144	101.13754 ppb	0.00
Spiked Amount 200.000			Recovery = 50.569%		
82) Terphenyl-D14(S)	12.15	244	1111698	52.74611 ppb	0.00
Spiked Amount 100.000			Recovery = 52.746%		
Target Compounds					Qvalue
2) 1,4-Dioxane	1.80	58	7437	5.27246	91
3) n-Nitrosodimethylamine	2.03	42	108539	49.77757 ppb	91
4) Pyridine	2.05	79	331636	54.38155 ppb	97
7) Phenol	4.74	94	453852	51.56419 ppb	98
8) Aniline	4.76	93	310592	45.01501 ppb	97
9) Bis (2-chloroethyl) ether	4.83	63	179821	50.56164 ppb	90
10) 2-Chlorophenol	4.89	128	369979	50.49545 ppb	99
11) 1,3-DCB	5.05	146	393943	50.30670 ppb	98
12) 1,4-DCB	5.13	146	397211	49.69519 ppb	97
13) Benzyl alcohol	5.27	108	202294	49.37287 ppb	93
14) 1,2-DCB	5.30	146	375743	50.02167 ppb	96
15) 2-Methylphenol	5.39	107	277868	51.24024 ppb	98
16) Bis (2-chloroisopropyl) et	5.42	45	245990	52.75310 ppb	95
17) Acetophenone	5.56	105	462691	48.91420 ppb	83
18) 3&4-Methylphenol	5.57	107	754029	100.12921 ppb	97
19) n-Nitrosodi-n-propylamine	5.57	70	234416	49.19870 ppb	98
20) Hexachloroethane	5.67	117	139882	49.66293 ppb	87
23) Nitrobenzene	5.74	77	331979	49.41991 ppb	94
24) Isophorone	6.01	82	572955	49.80599 ppb	96
25) 2-Nitrophenol	6.10	139	215381	53.24378 ppb	91
26) 2,4-Dimethylphenol	6.15	122	317010	50.16483 ppb	98
27) Benzoic acid	6.25	105	202021m	48.20407 ppb	96
28) Bis (2-chloroethoxy) metha	6.26	93	377056	51.62637 ppb	99
29) 2,4-Dichlorophenol	6.38	162	319751	50.85892 ppb	95
30) 1,2,4-Trichlorobenzene	6.47	180	352066	50.24889 ppb	96
31) 3,4-Dimethylphenol	6.50	107	438986	49.72323 ppb	92
32) Naphthalene	6.55	128	1048585	51.27797 ppb	99
33) 4-Chloroaniline	6.62	127	392269	45.59480 ppb	98
34) 2,6-Dichlorophenol	6.63	162	309470	49.94771 ppb	98
35) Hexachloropropene	6.65	213	249801	48.98982 ppb	99
36) Hexachlorobutadiene	6.70	225	208514	48.45576 ppb	97
37) Caprolactum	7.04	55	107102	52.30936 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 13:45 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	313112	48.72944 ppb		98
39)	2-Methylnaphthalene	7.34	142	698009	50.57667 ppb		99
40)	1-Methylnaphthalene	7.45	142	727654	50.91165 ppb		98
42)	Hexachlorocyclopentadiene	7.53	237	262272	50.23333 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	379257	50.16677 ppb		98
44)	2,4,6-Trichlorophenol	7.68	196	252905	50.39578 ppb		96
45)	2,4,5-Trichlorophenol	7.72	196	269240	51.21115 ppb		99
47)	1,1'-Biphenyl	7.89	154	919918	51.04236 ppb		97
48)	2-Chloronaphthalene	7.91	162	727697	51.05127 ppb		97
49)	2-Nitroaniline	8.03	65	177738	49.97915 ppb		98
50)	Dimethyl phthalate	8.25	163	855586	50.16592 ppb		98
51)	2,6-DNT	8.32	165	204449	53.95907 ppb		83
52)	Acenaphthylene	8.38	152	1113371	50.91444 ppb		99
53)	3-Nitroaniline	8.03	138	250874	53.41643 ppb		97
54)	Acenaphthene	8.58	154	711021	48.93161 ppb		99
55)	2,4-Dinitrophenol	8.62	184	76524	42.90050 ppb		97
56)	4-Nitrophenol	8.71	65	130035m	49.14902 ppb		84
57)	Dibenzofuran	8.79	168	1049878	50.72154 ppb		92
58)	2,4-DNT	8.78	165	277861	51.54295 ppb		92
59)	2,3,4,6-Tetrachlorophenol	8.94	232	218311	49.72188 ppb	#	89
60)	Diethyl phthalate	9.07	149	811964	48.74242 ppb		97
61)	4-Chlorophenyl phenyl ethe	9.20	204	473403	49.28530 ppb		85
62)	Fluorene	9.19	166	869717	50.79682 ppb		99
63)	4-Nitroaniline	8.50	138	206263	52.47145 ppb		99
66)	4,6-Dinitro-2-methylphenol	9.25	198	178144	50.05579 ppb	#	82
67)	Diphenyl amine	9.34	169	1391749	100.50395 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1391749	100.50395 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	664855	49.59290 ppb		97
70)	4-Bromophenyl phenyl ether	9.76	248	284466	51.93330 ppb		97
71)	Hexachlorobenzene	9.82	284	296351	50.34125 ppb	#	92
72)	Atrazine	9.97	200	127852	25.12490 ppb		95
73)	Pentachlorophenol	10.06	266	193687	48.35511 ppb		97
74)	Phenanthrene	10.30	178	1247591	50.23158 ppb		100
75)	Anthracene	10.37	178	1330338	51.53770 ppb		99
76)	Carbazol	10.55	167	1171261	50.44518 ppb		97
77)	Di-n-butylphthalate	10.98	149	1413279	50.29815 ppb		99
78)	Fluoranthene	11.69	202	1454385	50.64180 ppb	#	96
80)	Benzidine	11.86	184	431311	52.63209 ppb		98
81)	Pyrene	11.95	202	1520434	52.12925 ppb		99
83)	Butyl benzylphthalate	12.73	149	633633	52.72611 ppb	#	80
84)	3,3'-Dichlorobenzidine	13.33	252	546075	56.54635 ppb		99
85)	Benz (a) anthracene	13.35	228	1522108	51.82663 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.40	149	889997	52.81022 ppb		100
87)	Chrysene	13.39	228	1479935	52.36366 ppb		100
88)	Di-n-octylphthalate	14.13	149	1534431	55.60494 ppb		97
90)	Benzo (b) fluoranthene	14.57	252	1454724	50.50733 ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1409963	50.53598 ppb		98
92)	Benzo (a) pyrene	14.99	252	1376404	52.26394 ppb		98
93)	Indeno (1,2,3-cd) pyrene	16.75	276	1566877	52.69626 ppb		97
94)	Dibenz (a,h) anthracene	16.78	278	1393778	53.80881 ppb		100
95)	Benzo (g,h,i) perylene	17.25	276	1358027	52.57418 ppb		98

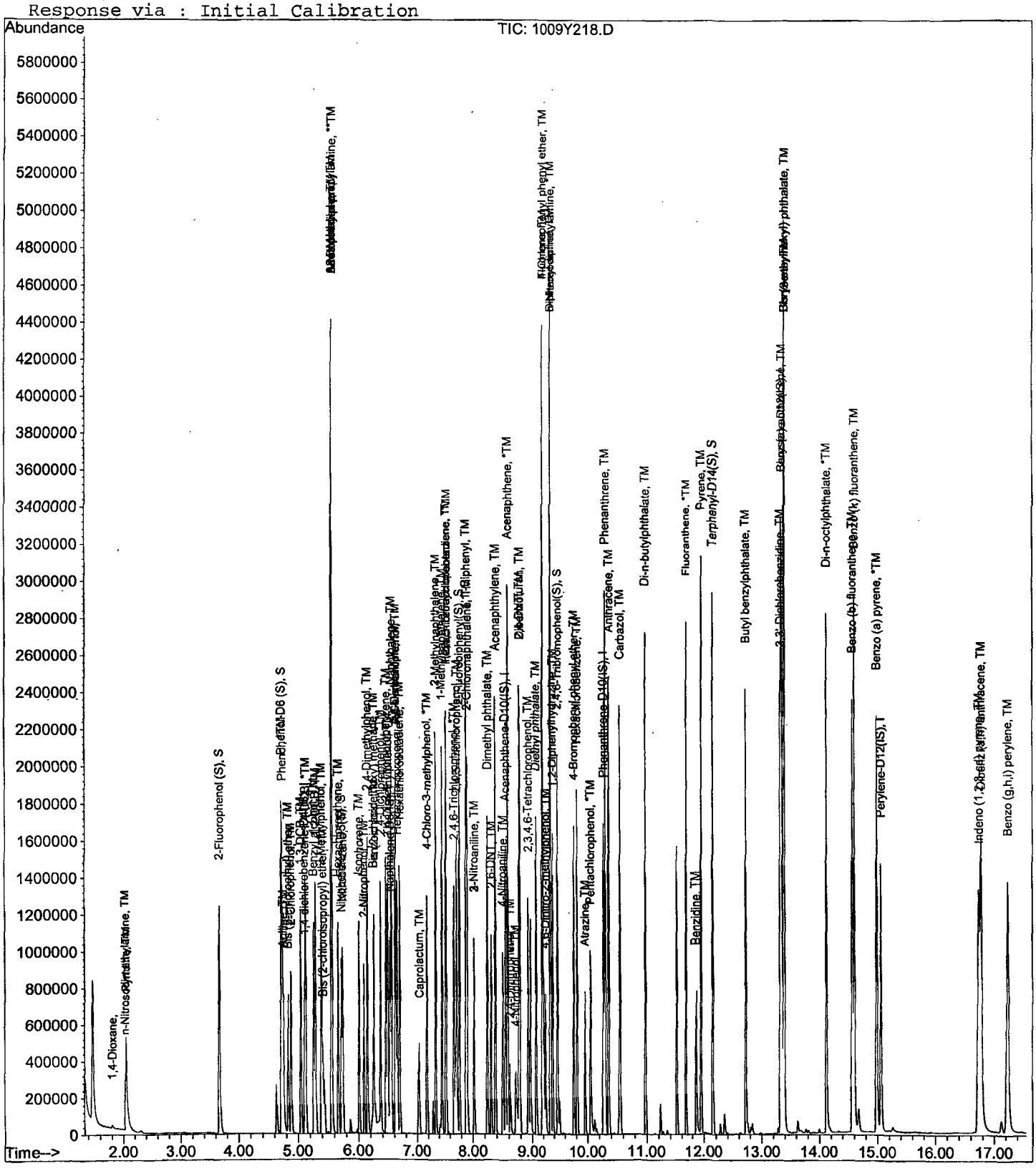
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 23 13:45 2020 Quant Results File: Y1009.RES

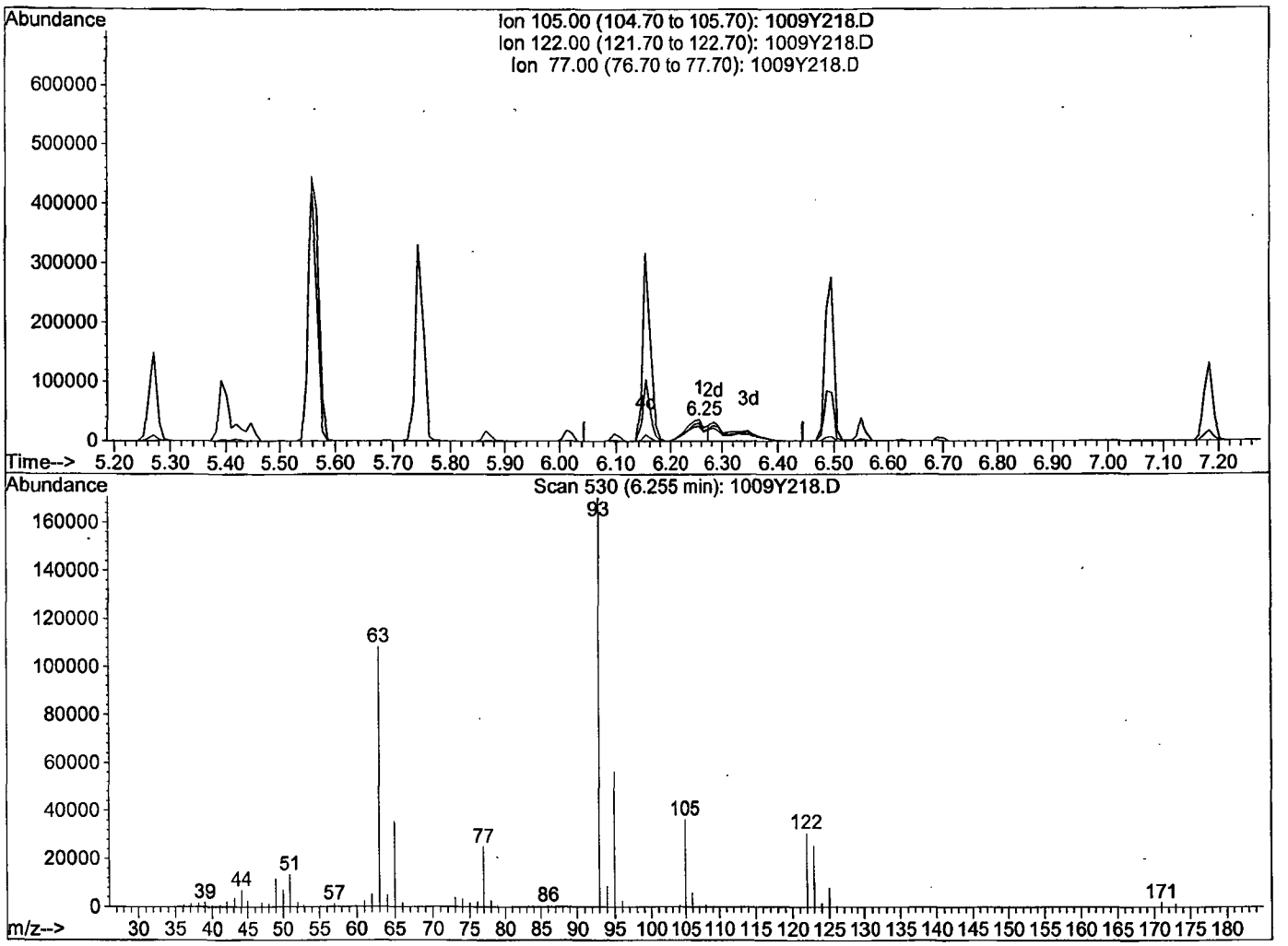
Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 12:57 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y218.D

(27) Benzoic acid (TM)

6.25min 27.9096ppb

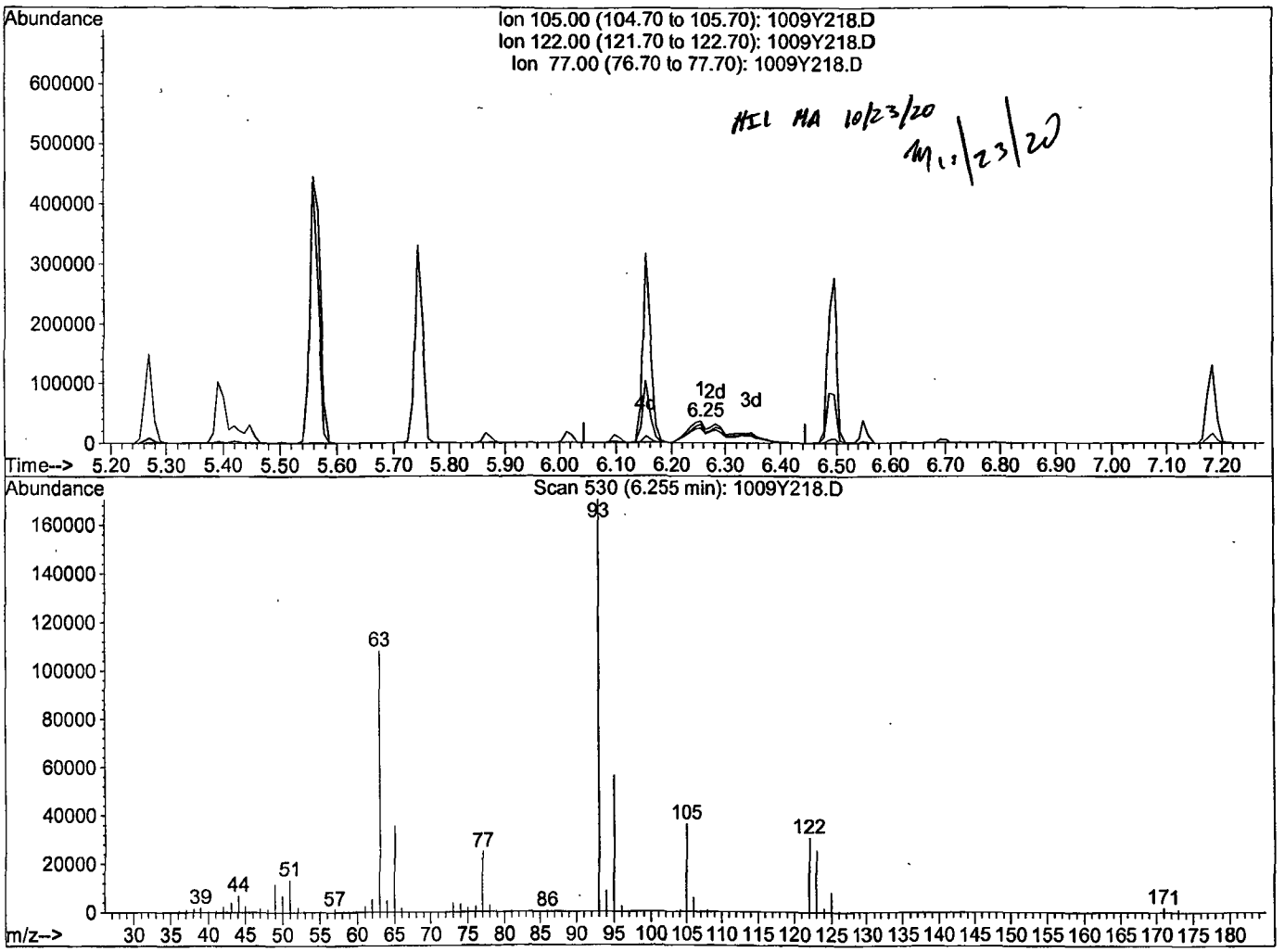
response 99282

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	82.91
77.00	70.50	67.85
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 13:45 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y218.D

(27) Benzoic acid (TM)

6.25min 48.2041ppb m

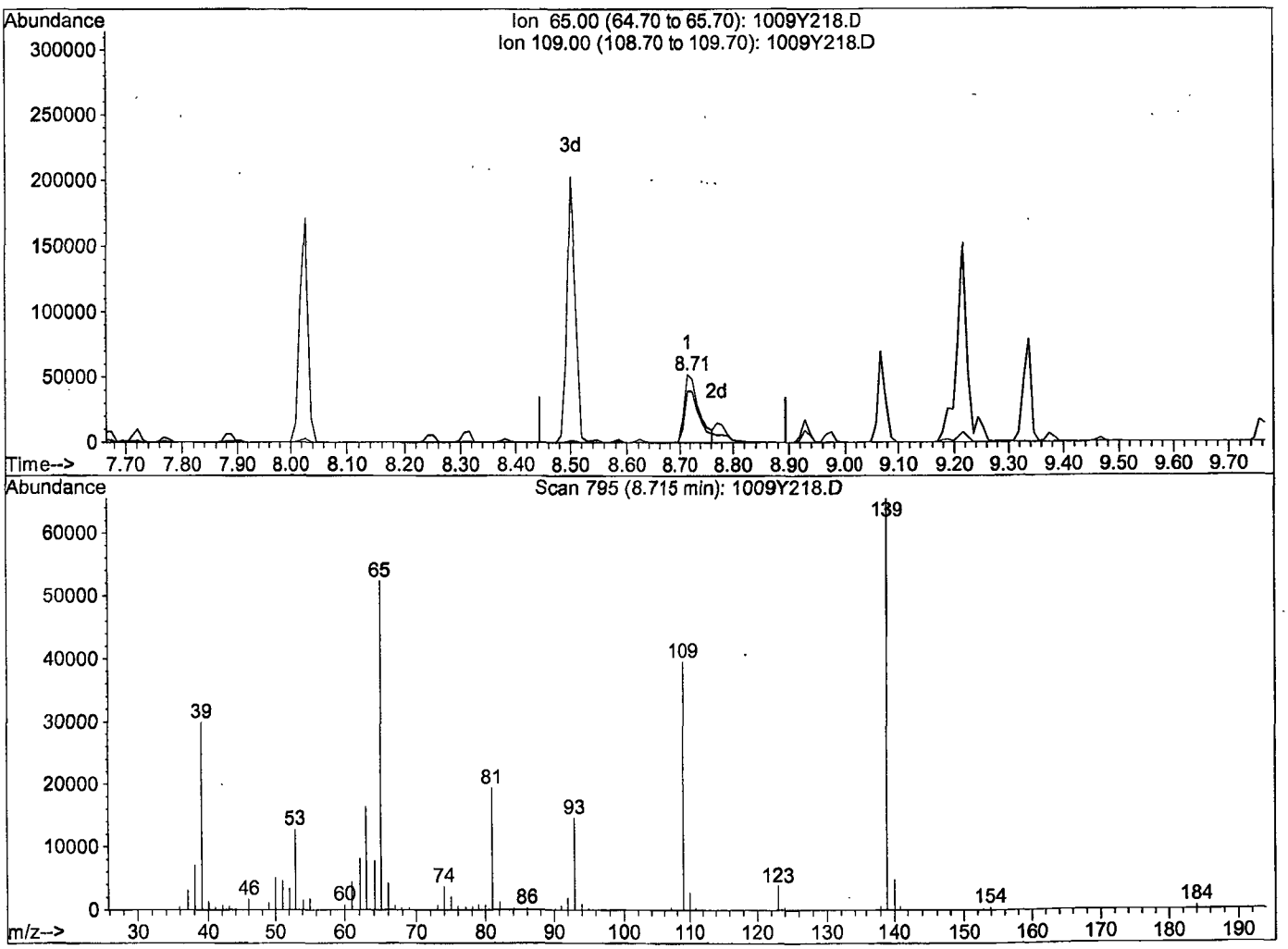
response 202021

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	84.81
77.00	70.50	68.70
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 13:45 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration



TIC: 1009Y218.D

(56) 4-Nitrophenol (**TM)

8.71min 40.1277ppb

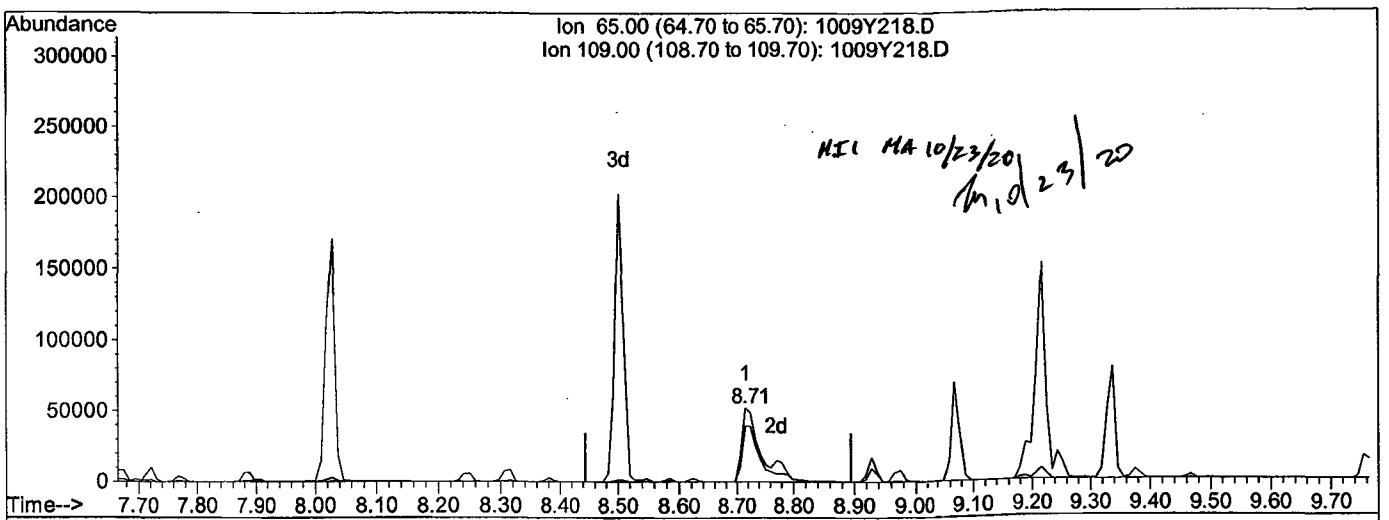
response 106167

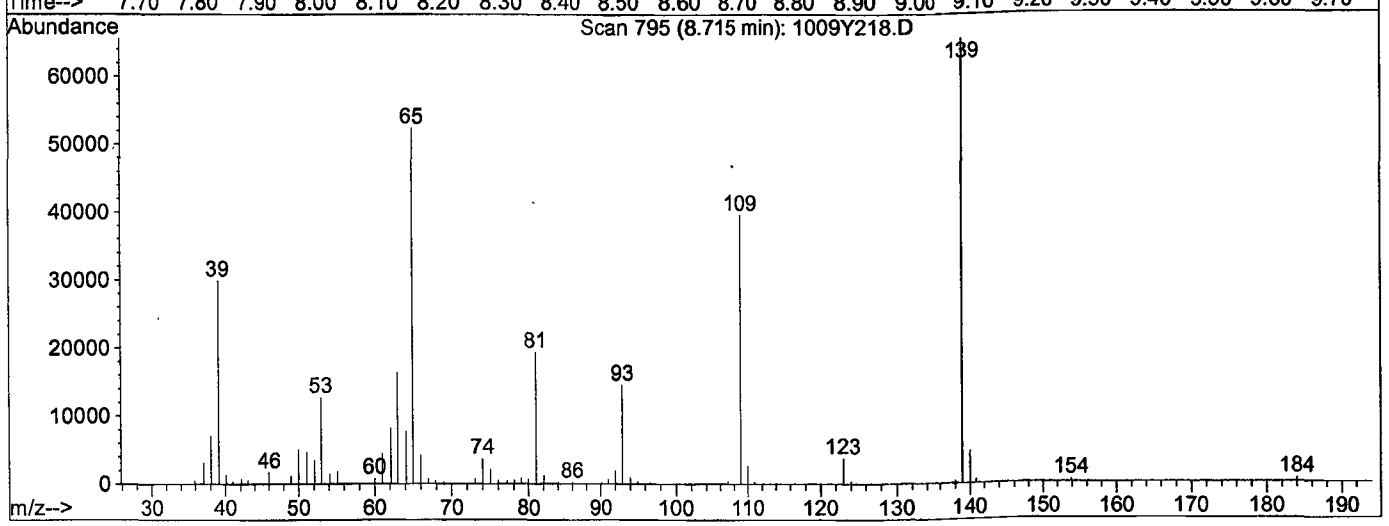
Ion	Exp%	Act%
65.00	100	100
109.00	90.40	75.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y218.D Vial: 18
Acq On : 23 Oct 20 12:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00
Quant Time: Oct 23 13:45 2020 Quant Results File: temp.res

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Multiple Level Calibration





TIC: 1009Y218.D

(56) 4-Nitrophenol (**TM)

8.71min 49.1490ppb m

response 130035

Ion	Exp%	Act%
65.00	100	100
109.00	90.40	75.71
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y236.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3491	2.7		
3	TM	n-Nitrosodimethylamine	0.5546	0.6020	8.6	TM	
4	TM	Pyridine	1.551	1.568	1.1	TM	
5	S	2-Fluorophenol (S)	1.550	1.590	2.6	S	
6	S	Phenol-D6 (S)	1.954	2.140	9.5	S	
7	*TM	Phenol	2.239	2.515	12	*TM	
8	TM	Aniline	1.755	1.559	11	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9712	7.4	TM	
10	TM	2-Chlorophenol	1.864	2.068	11	TM	
11	TM	1,3-DCB	1.992	2.094	5.1	TM	
12	*TM	1,4-DCB	2.033	2.153	5.9	*TM	
13	TM	Benzyl alcohol	1.042	1.156	11	TM	
14	TM	1,2-DCB	1.910	2.017	5.6	TM	
15	TM	2-Methylphenol	1.379	1.540	12	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.328	12	TM	
17	TM	Acetophenone	2.406	2.588	7.6	TM	
18	TM	3&4-Methylphenol	1.915	2.134	11	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.332	9.9	**TM	
20	TM	Hexachloroethane	0.7164	0.7526	5.1	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4180	0.09	S	
23	TM	Nitrobenzene	0.4309	0.4443	3.1	TM	
24	TM	Isophorone	0.7379	0.7741	4.9	TM	
25	*TM	2-Nitrophenol	0.2595	0.2801	7.9	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4319	6.6	TM	
27	TML	Benzoic acid	0.2281	0.2954	29	TML	7.6
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4992	6.6	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4285	6.3	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4734	5.3	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5922	4.6	TM	
32	TM	Naphthalene	1.312	1.387	5.7	TM	
33	TM	4-Chloroaniline	0.5518	0.5635	2.1	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.4221	6.2	TM	
35	TM	Hexachloropropene	0.3271	0.3287	0.51	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2797	1.3	*TM	
37	TM	Caprolactum	0.1313	0.1436	9.4	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4299	4.3	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.9386	6.0	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9870	7.7	TM	
		Average			7.1		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y236.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5294	5.0	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8353	3.5	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5559	3.8	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5800	3.3	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.668	1.1	S	
47	TM	1,1'-Biphenyl	1.924	2.013	4.6	TM	
48	TM	2-Chloronaphthalene	1.522	1.593	4.7	TM	
49	TM	2-Nitroaniline	0.3796	0.3895	2.6	TM	
50	TM	Dimethyl phthalate	1.821	1.868	2.6	TM	
51	TM	2,6-DNT	0.4045	0.4431	9.6	TM	
52	TM	Acenaphthylene	2.334	2.433	4.2	TM	
53	TM	3-Nitroaniline	0.5014	0.5468	9.1	TM	
54	*TM	Acenaphthene	1.551	1.576	1.6	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.2484	25	**TML	13
56	**TM	4-Nitrophenol	0.2824	0.2654	6.0	**TM	
57	TM	Dibenzofuran	2.210	2.282	3.3	TM	
58	TM	2,4-DNT	0.5755	0.6247	8.6	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4917	4.9	TM	
60	TM	Diethyl phthalate	1.778	1.795	0.95	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.052	2.6	TM	
62	TM	Fluorene	1.828	1.925	5.3	TM	
63	TM	4-Nitroaniline	0.4196	0.4569	8.9	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2898	0.16	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2141	10	TM	
67	TM	Diphenyl amine	0.7572	0.7832	3.4	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7832	3.4	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7289	0.57	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3231	7.9	TM	
71	TM	Hexachlorobenzene	0.3219	0.3399	5.6	TM	
72	TM	Atrazine	0.2783	0.1954	30	TM	
73	*TM	Pentachlorophenol	0.2190	0.2184	0.27	*TM	
74	TM	Phenanthrene	1.358	1.400	3.1	TM	
75	TM	Anthracene	1.412	1.503	6.5	TM	
76	TM	Carbazol	1.270	1.322	4.1	TM	
77	TM	Di-n-butylphthalate	1.536	1.614	5.1	TM	
78	*TM	Fluoranthene	1.570	1.648	4.9	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.2655	41	TM	
		Average			6.7		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/23/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y236.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Pyrene	1.596	1.680	5.3	TM	
82	S	Terphenyl-D14(S)	1.153	1.193	3.4	S	
83	TM	Butyl benzylphthalate	0.6574	0.6888	4.8	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6489	23	TM	
85	TM	Benz (a) anthracene	1.607	1.732	7.8	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	1.005	9.0	TM	
87	TM	Chrysene	1.546	1.596	3.2	TM	
88	*TM	Di-n-octylphthalate	1.510	1.719	14	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.679	8.2	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.557	3.6	TM	
92	*TM	Benzo (a) pyrene	1.419	1.551	9.3	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.757	9.7	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.564	12	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.497	7.6	TM	
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
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108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			8.6		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y236.D Vial: 36
Acq On : 23 Oct 20 20:35 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 9:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	173637	40.00000 ppb		0.00
21) Napthalene-D8(IS)	6.53	136	737280	40.00000 ppb		0.00
41) Acenaphthene-D10(IS)	8.55	164	458437	40.00000 ppb		0.00
65) Phenanthrene-D10(IS)	10.27	188	893524	40.00000 ppb		0.00
79) Chrysene-D12(IS)	13.37	240	913770	40.00000 ppb		0.00
89) Perylene-D12(IS)	15.06	264	897270	40.00000 ppb		0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.67	112	690370	102.58328 ppb		0.01
Spiked Amount 200.000			Recovery = 51.292%			
6) Phenol-D6 (S)	4.72	99	929023	109.50084 ppb		0.01
Spiked Amount 200.000			Recovery = 54.751%			
22) Nitrobenzene-D5(S)	5.73	82	385243	49.95313 ppb		0.00
Spiked Amount 100.000			Recovery = 49.953%			
46) 2-Fluorobiphenyl(S)	7.77	172	955837	49.46899 ppb		0.00
Spiked Amount 100.000			Recovery = 49.469%			
64) 2,4,6-Tribromophenol(S)	9.47	330	332168	100.15973 ppb		0.00
Spiked Amount 200.000			Recovery = 50.080%			
82) Terphenyl-D14(S)	12.15	244	1362374	51.72323 ppb		0.00
Spiked Amount 100.000			Recovery = 51.723%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.81	58	7578	4.86608		78
3) n-Nitrosodimethylamine	2.03	42	130666	54.27747 ppb		98
4) Pyridine	2.05	79	340320	50.54597 ppb		98
7) Phenol	4.74	94	545962	56.18308 ppb		95
8) Aniline	4.76	93	338432	44.42706 ppb		97
9) Bis (2-chloroethyl) ether	4.83	63	210796	53.68491 ppb		92
10) 2-Chlorophenol	4.89	128	448854	55.48677 ppb		98
11) 1,3-DCB	5.05	146	454431	52.56172 ppb		98
12) 1,4-DCB	5.13	146	467333	52.95765 ppb		98
13) Benzyl alcohol	5.27	108	250919	55.46871 ppb		95
14) 1,2-DCB	5.30	146	437871	52.79862 ppb		96
15) 2-Methylphenol	5.39	107	334280	55.83316 ppb		99
16) Bis (2-chloroisopropyl) et	5.42	45	288271	55.99389 ppb		96
17) Acetophenone	5.56	105	561814	53.79546 ppb		84
18) 3&4-Methylphenol	5.57	107	926254	111.40687 ppb		97
19) n-Nitrosodi-n-propylamine	5.57	70	289109	54.95879 ppb		96
20) Hexachloroethane	5.67	117	163342	52.52638 ppb		88
23) Nitrobenzene	5.74	77	409468	51.55867 ppb		93
24) Isophorone	6.02	82	713426	52.45663 ppb		94
25) 2-Nitrophenol	6.10	139	258123	53.97325 ppb	#	88
26) 2,4-Dimethylphenol	6.15	122	398036	53.27692 ppb		99
27) Benzoic acid	6.29	105	272209	53.77955 ppb		98
28) Bis (2-chloroethoxy) metha	6.26	93	460077	53.28275 ppb		98
29) 2,4-Dichlorophenol	6.38	162	394946	53.13532 ppb		94
30) 1,2,4-Trichlorobenzene	6.47	180	436280	52.66936 ppb		97
31) 3,4-Dimethylphenol	6.50	107	545773	52.28909 ppb		94
32) Naphthalene	6.55	128	1277936	52.85994 ppb		99
33) 4-Chloroaniline	6.62	127	519343	51.05944 ppb		99
34) 2,6-Dichlorophenol	6.63	162	389034	53.10984 ppb		99
35) Hexachloropropene	6.65	213	302969	50.25742 ppb		97
36) Hexachlorobutadiene	6.70	225	257775	50.66889 ppb		98
37) Caprolactum	7.04	55	132385	54.69039 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y236.D Vial: 36
Acq On : 23 Oct 20 20:35 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 9:32 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38) 4-Chloro-3-methylphenol	7.18	107	396156	52.14928 ppb		99
39) 2-Methylnaphthalene	7.34	142	865021	53.01591 ppb		99
40) 1-Methylnaphthalene	7.45	142	909661	53.83468 ppb		99
42) Hexachlorocyclopentadiene	7.53	237	303360	47.48977 ppb		99
43) 1,2,4,5-Tetrachlorobenzene	7.54	216	478648	51.74882 ppb		98
44) 2,4,6-Trichlorophenol	7.67	196	318550	51.88193 ppb		97
45) 2,4,5-Trichlorophenol	7.72	196	332365	51.67041 ppb	#	92
47) 1,1'-Biphenyl	7.89	154	1153421	52.30837 ppb		98
48) 2-Chloronaphthalene	7.91	162	913026	52.35291 ppb		96
49) 2-Nitroaniline	8.03	65	223183	51.29457 ppb		96
50) Dimethyl phthalate	8.25	163	1070478	51.30086 ppb		98
51) 2,6-DNT	8.32	165	253934	54.77747 ppb		86
52) Acenaphthylene	8.38	152	1394112	52.10752 ppb		99
53) 3-Nitroaniline	8.03	138	313350	54.53190 ppb		99
54) Acenaphthene	8.58	154	903007	50.79254 ppb		98
55) 2,4-Dinitrophenol	8.62	184	142344	56.67099 ppb		96
56) 4-Nitrophenol	8.71	65	152089	46.98445 ppb		90
57) Dibenzofuran	8.79	168	1307871	51.64404 ppb		93
58) 2,4-DNT	8.78	165	358002	54.27863 ppb		91
59) 2,3,4,6-Tetrachlorophenol	8.93	232	281765	52.45183 ppb		97
60) Diethyl phthalate	9.08	149	1028763	50.47629 ppb		99
61) 4-Chlorophenyl phenyl ethe	9.19	204	603047	51.31440 ppb		98
62) Fluorene	9.19	166	1103211	52.66461 ppb		99
63) 4-Nitroaniline	8.50	138	261805	54.43540 ppb		98
66) 4,6-Dinitro-2-methylphenol	9.25	198	239157	55.01346 ppb		93
67) Diphenyl amine	9.34	169	1749476	103.42677 ppb		99
68) n-Nitrosodiphenylamine	9.34	169	1749476	103.42677 ppb		99
69) 1,2-Diphenylhydrazine	9.37	77	814127	49.71501 ppb		97
70) 4-Bromophenyl phenyl ether	9.76	248	360880	53.93630 ppb		97
71) Hexachlorobenzene	9.82	284	379588	52.78771 ppb	#	92
72) Atrazine	9.96	200	109105	17.55271 ppb		98
73) Pentachlorophenol	10.05	266	243986	49.86658 ppb		100
74) Phenanthrene	10.30	178	1563387	51.53163 ppb		99
75) Anthracene	10.37	178	1678868	53.24543 ppb		98
76) Carbazol	10.55	167	1476636	52.06456 ppb		98
77) Di-n-butylphthalate	10.98	149	1803204	52.53779 ppb		99
78) Fluoranthene	11.69	202	1840482	52.46433 ppb	#	97
80) Benzidine	11.85	184	303288	29.61426 ppb	#	97
81) Pyrene	11.95	202	1918864	52.64337 ppb		99
83) Butyl benzylphthalate	12.73	149	786746	52.38514 ppb		83
84) 3,3'-Dichlorobenzidine	13.33	252	741193	61.41426 ppb		97
85) Benz (a) anthracene	13.35	228	1977825	53.88663 ppb		99
86) Bis (2-ethylhexyl) phthala	13.40	149	1147417	54.47990 ppb		99
87) Chrysene	13.39	228	1823348	51.62291 ppb		100
88) Di-n-octylphthalate	14.13	149	1963692	56.94098 ppb		97
90) Benzo (b) fluoranthene	14.57	252	1882983	54.08663 ppb		98
91) Benzo (k) fluoranthene	14.61	252	1746292	51.78210 ppb		98
92) Benzo (a) pyrene	14.99	252	1739543	54.64635 ppb		98
93) Indeno (1,2,3-cd) pyrene	16.74	276	1970974	54.83976 ppb		98
94) Dibenz (a,h) anthracene	16.79	278	1753848	56.01722 ppb		97
95) Benzo (g,h,i) perylene	17.25	276	1679430	53.78929 ppb		98

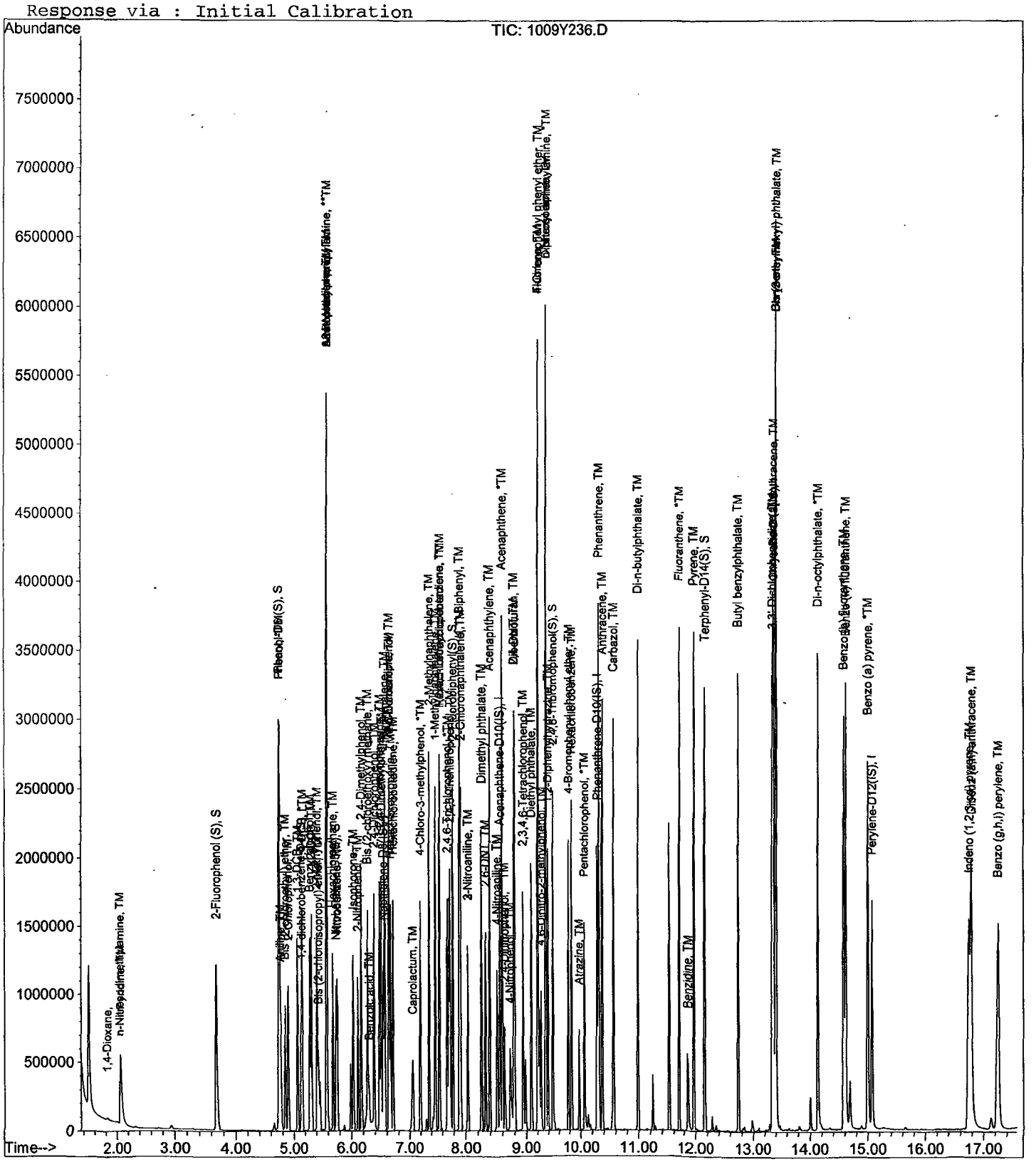
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y236.D Vial: 36
Acq On : 23 Oct 20 20:35 Operator: MA
Sample : 50ug/mL 8270 8/13/20 (2) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 9:32 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/26/20
Matrix: Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y241.D

		Compound	MEAN	CCRF	%D	%Drift		
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I		
2		1,4-Dioxane	0.3588	0.5677	58			*NT
3	TM	n-Nitrosodimethylamine	0.5546	0.5725	3.2	TM		
4	TM	Pyridine	1.551	1.666	7.4	TM		
5	S	2-Fluorophenol (S)	1.550	1.571	1.3	S		
6	S	Phenol-D6 (S)	1.954	1.994	2.0	S		
7	*TM	Phenol	2.239	2.266	1.2	*TM		
8	TM	Aniline	1.755	1.544	12	TM		
9	TM	Bis (2-chloroethyl) ether	0.9045	0.9008	0.41	TM		
10	TM	2-Chlorophenol	1.864	1.895	1.7	TM		
11	TM	1,3-DCB	1.992	2.025	1.7	TM		
12	*TM	1,4-DCB	2.033	2.068	1.7	*TM		
13	TM	Benzyl alcohol	1.042	1.053	1.0	TM		
14	TM	1,2-DCB	1.910	1.912	0.07	TM		
15	TM	2-Methylphenol	1.379	1.373	0.48	TM		
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.208	1.9	TM		
17	TM	Acetophenone	2.406	2.353	2.2	TM		
18	TM	3&4-Methylphenol	1.915	1.959	2.3	TM		
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.210	0.15	**TM		
20	TM	Hexachloroethane	0.7164	0.7054	1.5	TM		
21	I	Napthalene-D8(IS)	ISTD			I		
22	S	Nitrobenzene-D5(S)	0.4184	0.4263	1.9	S		
23	TM	Nitrobenzene	0.4309	0.4193	2.7	TM		
24	TM	Isophorone	0.7379	0.7333	0.62	TM		
25	*TM	2-Nitrophenol	0.2595	0.2689	3.6	*TM		
26	TM	2,4-Dimethylphenol	0.4053	0.4047	0.15	TM		
27	TML	Benzoic acid	0.2281	0.0493	78	TML	68	*NT
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4760	1.6	TM		
29	*TM	2,4-Dichlorophenol	0.4033	0.4060	0.67	*TM		
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4513	0.41	TM		
31	TM	3,4-Dimethylphenol	0.5663	0.5601	1.1	TM		
32	TM	Naphthalene	1.312	1.349	2.8	TM		
33	TM	4-Chloroaniline	0.5518	0.5076	8.0	TM		
34	TM	2,6-Dichlorophenol	0.3974	0.4006	0.80	TM		
35	TM	Hexachloropropene	0.3271	0.3256	0.46	TM		
36	*TM	Hexachlorobutadiene	0.2760	0.2677	3.0	*TM		
37	TM	Caprolactum	0.1313	0.1359	3.5	TM		
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4087	0.83	*TM		
39	TM	2-Methylnaphthalene	0.8852	0.9071	2.5	TM		
40	TM	1-Methylnaphthalene	0.9167	0.9264	1.1	TM		
		Average			5.6			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 10/26/20
Matrix: 0 Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y241.D

		Compound	MEAN	CCRF	%D		%Drift	
41	I	Acenaphthene-D10(IS)	ISTD			I		
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5422	2.7	**TM		
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8117	0.57	TM		
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5380	0.42	*TM		
45	TM	2,4,5-Trichlorophenol	0.5612	0.5760	2.6	TM		
46	S	2-Fluorobiphenyl(S)	1.686	1.715	1.7	S		
47	TM	1,1'-Biphenyl	1.924	1.927	0.14	TM		
48	TM	2-Chloronaphthalene	1.522	1.533	0.76	TM		
49	TM	2-Nitroaniline	0.3796	0.3817	0.55	TM		
50	TM	Dimethyl phthalate	1.821	1.825	0.21	TM		
51	TM	2,6-DNT	0.4045	0.4291	6.1	TM		
52	TM	Acenaphthylene	2.334	2.408	3.1	TM		
53	TM	3-Nitroaniline	0.5014	0.5264	5.0	TM		
54	*TM	Acenaphthene	1.551	1.547	0.25	*TM		
55	**TML	2,4-Dinitrophenol	0.1987	0.1238	38	**TML	27	*NT
56	**TM	4-Nitrophenol	0.2824	0.2107	25	**TM		*NT
57	TM	Dibenzofuran	2.210	2.205	0.23	TM		
58	TM	2,4-DNT	0.5755	0.5938	3.2	TM		
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4724	0.78	TM		
60	TM	Diethyl phthalate	1.778	1.755	1.3	TM		
61	TM	4-Chlorophenyl phenyl ether	1.025	1.002	2.2	TM		
62	TM	Fluorene	1.828	1.876	2.7	TM		
63	TM	4-Nitroaniline	0.4196	0.4323	3.0	TM		
64	S	2,4,6-Tribromophenol(S)	0.2894	0.2962	2.3	S		
65	I	Phenanthrene-D10(IS)	ISTD			I		
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.1753	9.9	TM		
67	TM	Diphenyl amine	0.7572	0.7929	4.7	TM		
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7929	4.7	*TM		
69	TM	1,2-Diphenylhydrazine	0.7331	0.7304	0.36	TM		
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3192	6.6	TM		
71	TM	Hexachlorobenzene	0.3219	0.3391	5.3	TM		
72	TM	Atrazine	0.2783	0.2771	0.41	TM		
73	*TM	Pentachlorophenol	0.2190	0.2145	2.1	*TM		
74	TM	Phenanthrene	1.358	1.378	1.4	TM		
75	TM	Anthracene	1.412	1.454	3.0	TM		
76	TM	Carbazol	1.270	1.298	2.2	TM		
77	TM	Di-n-butylphthalate	1.536	1.571	2.3	TM		
78	*TM	Fluoranthene	1.570	1.623	3.3	*TM		
79	I	Chrysene-D12(IS)	ISTD			I		
80	TM	Benzidine	0.4483	0.4771	6.4	TM		
		Average			4.2			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/26/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y241.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Pyrene	1.596	1.651	3.5	TM	
82	S	Terphenyl-D14(S)	1.153	1.221	5.9	S	
83	TM	Butyl benzylphthalate	0.6574	0.7025	6.9	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6207	17	TM	
85	TM	Benz (a) anthracene	1.607	1.660	3.3	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9816	6.5	TM	
87	TM	Chrysene	1.546	1.599	3.5	TM	
88	*TM	Di-n-octylphthalate	1.510	1.666	10	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.653	6.5	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.423	5.3	TM	
92	*TM	Benzo (a) pyrene	1.419	1.499	5.6	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.697	5.9	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.503	7.7	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.460	4.9	TM	
96							
97							
98							
99							
100							
101							
102							
103							
104							
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111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			6.6		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y241.D Vial: 41
Acq On : 26 Oct 20 11:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:02 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	161641	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.52	136	654305	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.55	164	395199	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.27	188	764732	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	778140	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.07	264	796412	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	634857	101.33543 ppb	0.01
Spiked Amount 200.000			Recovery =	50.668%	
6) Phenol-D6 (S)	4.72	99	805694	102.01214 ppb	0.01
Spiked Amount 200.000			Recovery =	51.006%	
22) Nitrobenzene-D5(S)	5.73	82	348685	50.94639 ppb	0.00
Spiked Amount 100.000			Recovery =	50.946%	
46) 2-Fluorobiphenyl(S)	7.77	172	847085	50.85574 ppb	0.00
Spiked Amount 100.000			Recovery =	50.856%	
64) 2,4,6-Tribromophenol(S)	9.47	330	292609	102.34976 ppb	0.00
Spiked Amount 200.000			Recovery =	51.175%	
82) Terphenyl-D14(S)	12.14	244	1187649	52.94885 ppb	-0.02
Spiked Amount 100.000			Recovery =	52.949%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.80	58	11471	7.91255	60
3) n-Nitrosodimethylamine	2.03	42	115676	51.61679 ppb	90
4) Pyridine	2.05	79	336611	53.70542 ppb	98
7) Phenol	4.73	94	457779	50.60457 ppb	93
8) Aniline	4.75	93	311936	43.98782 ppb	98
9) Bis (2-chloroethyl) ether	4.83	63	182009	49.79359 ppb	89
10) 2-Chlorophenol	4.88	128	382863	50.84151 ppb	94
11) 1,3-DCB	5.05	146	409223	50.84549 ppb	98
12) 1,4-DCB	5.13	146	417824	50.86117 ppb	99
13) Benzyl alcohol	5.27	108	212672	50.50282 ppb	91
14) 1,2-DCB	5.30	146	386272	50.03344 ppb	95
15) 2-Methylphenol	5.39	107	277335	49.75964 ppb	100
16) Bis (2-chloroisopropyl) et	5.42	45	244169	50.94727 ppb	97
17) Acetophenone	5.56	105	475379	48.89718 ppb	88
18) 3&4-Methylphenol	5.57	107	791599	102.27697 ppb	100
19) n-Nitrosodi-n-propylamine	5.57	70	244477	49.92341 ppb	98
20) Hexachloroethane	5.67	117	142523	49.23289 ppb	97
23) Nitrobenzene	5.74	77	342958	48.66031 ppb	96
24) Isophorone	6.01	82	599722	49.68825 ppb	98
25) 2-Nitrophenol	6.10	139	219916	51.81564 ppb	93
26) 2,4-Dimethylphenol	6.15	122	331001	49.92273 ppb	98
27) Benzoic acid	6.24	105	40313	15.88780 ppb	95
28) Bis (2-chloroethoxy) metha	6.26	93	389348	50.80966 ppb	98
29) 2,4-Dichlorophenol	6.38	162	332035	50.33634 ppb	91
30) 1,2,4-Trichlorobenzene	6.46	180	369075	50.20646 ppb	98
31) 3,4-Dimethylphenol	6.49	107	458088	49.45385 ppb	99
32) Naphthalene	6.55	128	1103239	51.42086 ppb	99
33) 4-Chloroaniline	6.62	127	415133	45.98977 ppb	97
34) 2,6-Dichlorophenol	6.63	162	327641	50.40085 ppb	98
35) Hexachloropropene	6.65	213	266276	49.77213 ppb	99
36) Hexachlorobutadiene	6.69	225	218978	48.50129 ppb	100
37) Caprolactum	7.04	55	111179	51.75439 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y241.D Vial: 41
Acq On : 26 Oct 20 11:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:02 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	334287	49.58540 ppb		97
39)	2-Methylnaphthalene	7.34	142	741878	51.23471 ppb		100
40)	1-Methylnaphthalene	7.45	142	757675	50.52633 ppb		99
42)	Hexachlorocyclopentadiene	7.53	237	267840	48.63859 ppb		99
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	400968	50.28724 ppb		97
44)	2,4,6-Trichlorophenol	7.67	196	265757	50.20963 ppb		96
45)	2,4,5-Trichlorophenol	7.72	196	284536	51.31303 ppb		97
47)	1,1'-Biphenyl	7.88	154	951798	50.07166 ppb		98
48)	2-Chloronaphthalene	7.90	162	757416	50.37974 ppb		98
49)	2-Nitroaniline	8.02	65	188573	50.27518 ppb		78
50)	Dimethyl phthalate	8.24	163	901347	50.10750 ppb		100
51)	2,6-DNT	8.31	165	211966	53.04093 ppb		91
52)	Acenaphthylene	8.38	152	1189455	51.57207 ppb		99
53)	3-Nitroaniline	8.03	138	260038	52.49544 ppb		94
54)	Acenaphthene	8.59	154	764353	49.87312 ppb		99
55)	2,4-Dinitrophenol	8.62	184	61141	36.48381 ppb		98
56)	4-Nitrophenol	8.72	65	104070	37.29458 ppb		85
57)	Dibenzofuran	8.78	168	1089074	49.88575 ppb		99
58)	2,4-DNT	8.77	165	293353	51.59383 ppb		97
59)	2,3,4,6-Tetrachlorophenol	8.93	232	233353	50.39075 ppb		96
60)	Diethyl phthalate	9.07	149	866899	49.34059 ppb		98
61)	4-Chlorophenyl phenyl ethe	9.19	204	495229	48.88302 ppb		97
62)	Fluorene	9.18	166	926958	51.33152 ppb		100
63)	4-Nitroaniline	8.50	138	213560	51.50948 ppb		91
66)	4,6-Dinitro-2-methylphenol	9.24	198	167543	45.03074 ppb	#	88
67)	Diphenyl amine	9.34	169	1515984	104.71684 ppb		99
68)	n-Nitrosodiphenylamine	9.34	169	1515984	104.71684 ppb		99
69)	1,2-Diphenylhydrazine	9.37	77	698235	49.81888 ppb		95
70)	4-Bromophenyl phenyl ether	9.76	248	305158	53.28930 ppb		97
71)	Hexachlorobenzene	9.82	284	324123	52.66562 ppb		98
72)	Atrazine	9.96	200	132458	24.89859 ppb		98
73)	Pentachlorophenol	10.05	266	205060	48.96915 ppb		99
74)	Phenanthrene	10.30	178	1316858	50.71580 ppb		99
75)	Anthracene	10.36	178	1389649	51.49533 ppb		99
76)	Carbazol	10.55	167	1240748	51.11511 ppb		96
77)	Di-n-butylphthalate	10.98	149	1502120	51.13620 ppb		98
78)	Fluoranthene	11.69	202	1551026	51.65931 ppb		98
80)	Benzidine	11.85	184	464051	53.20967 ppb	#	98
81)	Pyrene	11.95	202	1605947	51.73803 ppb		99
83)	Butyl benzylphthalate	12.73	149	683273	53.42531 ppb		90
84)	3,3'-Dichlorobenzidine	13.33	252	603716	58.74214 ppb	#	96
85)	Benz (a) anthracene	13.35	228	1614825	51.66516 ppb		100
86)	Bis (2-ethylhexyl) phthala	13.39	149	954776	53.23481 ppb	#	94
87)	Chrysene	13.38	228	1555783	51.72507 ppb		100
88)	Di-n-octylphthalate	14.13	149	1619992	55.16246 ppb	#	93
90)	Benzo (b) fluoranthene	14.57	252	1645236	53.24234 ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1416942	47.33694 ppb		99
92)	Benzo (a) pyrene	14.99	252	1492485	52.82279 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.75	276	1688944	52.94382 ppb		98
94)	Dibenz (a,h) anthracene	16.78	278	1496251	53.84178 ppb		98
95)	Benzo (g,h,i) perylene	17.25	276	1453505	52.44882 ppb		98

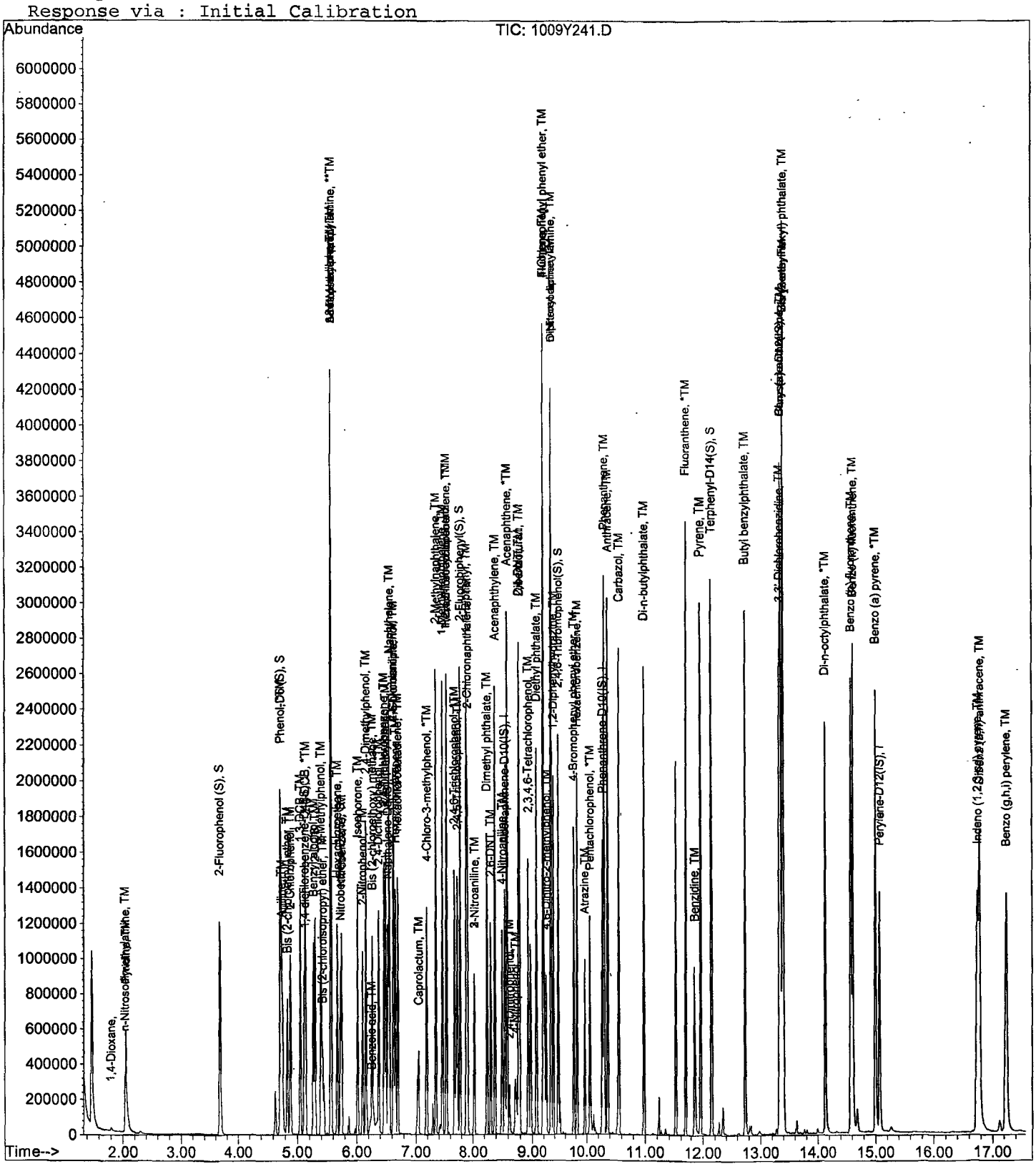
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\YODA\DATA\Y201009\1009Y241.D Vial: 41
Acq On : 26 Oct 20 11:56 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 12:02 2020 Quant Results File: Y1009.RES

Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No:
Date Analyzed: 10/26/20
Instrument: Yoda
Initial Cal. Date: 10/09/20
Data File: 1009Y248.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2		1,4-Dioxane	0.3588	0.3629	1.1		
3	TM	n-Nitrosodimethylamine	0.5546	0.5680	2.4	TM	
4	TM	Pyridine	1.551	1.651	6.5	TM	
5	S	2-Fluorophenol (S)	1.550	1.579	1.9	S	
6	S	Phenol-D6 (S)	1.954	2.001	2.4	S	
7	*TM	Phenol	2.239	2.235	0.16	*TM	
8	TM	Aniline	1.755	1.693	3.5	TM	
9	TM	Bis (2-chloroethyl) ether	0.9045	0.8991	0.60	TM	
10	TM	2-Chlorophenol	1.864	1.910	2.5	TM	
11	TM	1,3-DCB	1.992	2.034	2.1	TM	
12	*TM	1,4-DCB	2.033	2.056	1.1	*TM	
13	TM	Benzyl alcohol	1.042	1.055	1.2	TM	
14	TM	1,2-DCB	1.910	1.941	1.6	TM	
15	TM	2-Methylphenol	1.379	1.389	0.71	TM	
16	TM	Bis (2-chloroisopropyl) ether	1.186	1.200	1.2	TM	
17	TM	Acetophenone	2.406	2.356	2.1	TM	
18	TM	3&4-Methylphenol	1.915	1.948	1.7	TM	
19	**TM	n-Nitrosodi-n-propylamine	1.212	1.227	1.3	**TM	
20	TM	Hexachloroethane	0.7164	0.7109	0.77	TM	
21	I	Napthalene-D8(IS)	ISTD			I	
22	S	Nitrobenzene-D5(S)	0.4184	0.4199	0.36	S	
23	TM	Nitrobenzene	0.4309	0.4253	1.3	TM	
24	TM	Isophorone	0.7379	0.7369	0.13	TM	
25	*TM	2-Nitrophenol	0.2595	0.2710	4.5	*TM	
26	TM	2,4-Dimethylphenol	0.4053	0.4176	3.0	TM	
27	TML	Benzoic acid	0.2281	0.2475	8.5	TML	7.2
28	TM	Bis (2-chloroethoxy) methane	0.4685	0.4726	0.88	TM	
29	*TM	2,4-Dichlorophenol	0.4033	0.4085	1.3	*TM	
30	TM	1,2,4-Trichlorobenzene	0.4494	0.4494	0.01	TM	
31	TM	3,4-Dimethylphenol	0.5663	0.5578	1.5	TM	
32	TM	Naphthalene	1.312	1.367	4.2	TM	
33	TM	4-Chloroaniline	0.5518	0.5156	6.6	TM	
34	TM	2,6-Dichlorophenol	0.3974	0.3977	0.07	TM	
35	TM	Hexachloropropene	0.3271	0.3343	2.2	TM	
36	*TM	Hexachlorobutadiene	0.2760	0.2712	1.8	*TM	
37	TM	Caprolactum	0.1313	0.1383	5.3	TM	
38	*TM	4-Chloro-3-methylphenol	0.4121	0.4114	0.18	*TM	
39	TM	2-Methylnaphthalene	0.8852	0.9129	3.1	TM	
40	TM	1-Methylnaphthalene	0.9167	0.9465	3.2	TM	
		Average			2.2		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/26/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y248.D

		Compound	MEAN	CCRF	%D		%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I	
42	**TM	Hexachlorocyclopentadiene	0.5574	0.5041	9.6	**TM	
43	TM	1,2,4,5-Tetrachlorobenzene	0.8070	0.8217	1.8	TM	
44	*TM	2,4,6-Trichlorophenol	0.5357	0.5376	0.35	*TM	
45	TM	2,4,5-Trichlorophenol	0.5612	0.5835	4.0	TM	
46	S	2-Fluorobiphenyl(S)	1.686	1.722	2.1	S	
47	TM	1,1'-Biphenyl	1.924	1.951	1.4	TM	
48	TM	2-Chloronaphthalene	1.522	1.540	1.2	TM	
49	TM	2-Nitroaniline	0.3796	0.3701	2.5	TM	
50	TM	Dimethyl phthalate	1.821	1.866	2.5	TM	
51	TM	2,6-DNT	0.4045	0.4200	3.8	TM	
52	TM	Acenaphthylene	2.334	2.390	2.4	TM	
53	TM	3-Nitroaniline	0.5014	0.5219	4.1	TM	
54	*TM	Acenaphthene	1.551	1.537	0.91	*TM	
55	**TML	2,4-Dinitrophenol	0.1987	0.2040	2.7	**TML	1.0
56	**TM	4-Nitrophenol	0.2824	0.2422	14	**TM	
57	TM	Dibenzofuran	2.210	2.205	0.20	TM	
58	TM	2,4-DNT	0.5755	0.5971	3.8	TM	
59	TM	2,3,4,6-Tetrachlorophenol	0.4687	0.4790	2.2	TM	
60	TM	Diethyl phthalate	1.778	1.773	0.28	TM	
61	TM	4-Chlorophenyl phenyl ether	1.025	1.014	1.1	TM	
62	TM	Fluorene	1.828	1.862	1.9	TM	
63	TM	4-Nitroaniline	0.4196	0.4356	3.8	TM	
64	S	2,4,6-Tribromophenol(S)	0.2894	0.3030	4.7	S	
65	I	Phenanthrene-D10(IS)	ISTD			I	
66	TM	4,6-Dinitro-2-methylphenol	0.1946	0.2027	4.2	TM	
67	TM	Diphenyl amine	0.7572	0.7862	3.8	TM	
68	*TM	n-Nitrosodiphenylamine	0.7572	0.7862	3.8	*TM	
69	TM	1,2-Diphenylhydrazine	0.7331	0.7102	3.1	TM	
70	TM	4-Bromophenyl phenyl ether	0.2995	0.3093	3.3	TM	
71	TM	Hexachlorobenzene	0.3219	0.3334	3.6	TM	
72	TM	Atrazine	0.2783	0.2751	1.1	TM	
73	*TM	Pentachlorophenol	0.2190	0.2150	1.9	*TM	
74	TM	Phenanthrene	1.358	1.367	0.66	TM	
75	TM	Anthracene	1.412	1.442	2.2	TM	
76	TM	Carbazol	1.270	1.278	0.65	TM	
77	TM	Di-n-butylphthalate	1.536	1.581	2.9	TM	
78	*TM	Fluoranthene	1.570	1.618	3.0	*TM	
79	I	Chrysene-D12(IS)	ISTD			I	
80	TM	Benzidine	0.4483	0.4344	3.1	TM	
		Average			2.9		

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 10/26/20
Instrument: Yoda
Cal. Date: 10/09/20
Data File: 1009Y248.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Pyrene	1.596	1.625	1.8	TM	
82	S	Terphenyl-D14(S)	1.153	1.193	3.4	S	
83	TM	Butyl benzylphthalate	0.6574	0.7077	7.6	TM	
84	TM	3,3'-Dichlorobenzidine	0.5283	0.6022	14	TM	
85	TM	Benz (a) anthracene	1.607	1.636	1.8	TM	
86	TM	Bis (2-ethylhexyl) phthalate	0.9220	0.9556	3.7	TM	
87	TM	Chrysene	1.546	1.569	1.5	TM	
88	*TM	Di-n-octylphthalate	1.510	1.648	9.2	*TM	
89	I	Perylene-D12(IS)	ISTD			I	
90	TM	Benzo (b) fluoranthene	1.552	1.746	12	TM	
91	TM	Benzo (k) fluoranthene	1.503	1.383	8.0	TM	
92	*TM	Benzo (a) pyrene	1.419	1.508	6.2	*TM	
93	TM	Indeno (1,2,3-cd) pyrene	1.602	1.702	6.3	TM	
94	TM	Dibenz (a,h) anthracene	1.396	1.499	7.4	TM	
95	TM	Benzo (g,h,i) perylene	1.392	1.461	5.0	TM	
96							
97							
98							
99							
100							
101							
102							
103							
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108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			6.3		

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y248.D Vial: 48
Acq On : 26 Oct 20 15:59 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 16:00 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4(IS)	5.11	152	163892	40.00000 ppb	0.00
21) Napthalene-D8(IS)	6.53	136	658830	40.00000 ppb	0.00
41) Acenaphthene-D10(IS)	8.54	164	399785	40.00000 ppb	0.00
65) Phenanthrene-D10(IS)	10.28	188	781952	40.00000 ppb	0.00
79) Chrysene-D12(IS)	13.36	240	808857	40.00000 ppb	0.00
89) Perylene-D12(IS)	15.06	264	799434	40.00000 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol (S)	3.67	112	647036	101.86093 ppb	0.00
Spiked Amount 200.000			Recovery = 50.931%		
6) Phenol-D6 (S)	4.72	99	819970	102.39376 ppb	0.01
Spiked Amount 200.000			Recovery = 51.197%		
22) Nitrobenzene-D5(S)	5.73	82	345818	50.18046 ppb	0.00
Spiked Amount 100.000			Recovery = 50.180%		
46) 2-Fluorobiphenyl(S)	7.77	172	860297	51.05647 ppb	0.00
Spiked Amount 100.000			Recovery = 51.056%		
64) 2,4,6-Tribromophenol(S)	9.47	330	302806	104.70152 ppb	0.00
Spiked Amount 200.000			Recovery = 52.351%		
82) Terphenyl-D14(S)	12.14	244	1205874	51.71974 ppb	-0.02
Spiked Amount 100.000			Recovery = 51.720%		
Target Compounds					Qvalue
2) 1,4-Dioxane	1.80	58	7434	5.05745	88
3) n-Nitrosodimethylamine	2.03	42	116360	51.20888 ppb	90
4) Pyridine	2.05	79	338292	53.23231 ppb	98
7) Phenol	4.73	94	457892	49.92185 ppb	95
8) Aniline	4.75	93	346752	48.22583 ppb	100
9) Bis (2-chloroethyl) ether	4.84	63	184193	49.69898 ppb	87
10) 2-Chlorophenol	4.88	128	391237	51.23996 ppb	97
11) 1,3-DCB	5.05	146	416706	51.06412 ppb	98
12) 1,4-DCB	5.13	146	421207	50.56876 ppb	99
13) Benzyl alcohol	5.27	108	216090	50.60970 ppb	91
14) 1,2-DCB	5.30	146	397617	50.79557 ppb	94
15) 2-Methylphenol	5.39	107	284569	50.35631 ppb	99
16) Bis (2-chloroisopropyl) et	5.42	45	245917	50.60725 ppb	99
17) Acetophenone	5.56	105	482754	48.97376 ppb	87
18) 3&4-Methylphenol	5.57	107	798159	101.70816 ppb	100
19) n-Nitrosodi-n-propylamine	5.57	70	251392	50.63042 ppb	99
20) Hexachloroethane	5.67	117	145633	49.61625 ppb	96
23) Nitrobenzene	5.75	77	350255	49.35432 ppb	97
24) Isophorone	6.01	82	606860	49.93431 ppb	99
25) 2-Nitrophenol	6.10	139	223209	52.23032 ppb	95
26) 2,4-Dimethylphenol	6.15	122	343888	51.51016 ppb	96
27) Benzoic acid	6.27	105	203816	46.40723 ppb	94
28) Bis (2-chloroethoxy) metha	6.27	93	389191	50.44034 ppb	95
29) 2,4-Dichlorophenol	6.37	162	336417	50.65037 ppb	99
30) 1,2,4-Trichlorobenzene	6.46	180	370080	49.99740 ppb	98
31) 3,4-Dimethylphenol	6.49	107	459367	49.25132 ppb	98
32) Naphthalene	6.55	128	1125366	52.09193 ppb	99
33) 4-Chloroaniline	6.62	127	424576	46.71284 ppb	95
34) 2,6-Dichlorophenol	6.63	162	327510	50.03467 ppb	96
35) Hexachloropropene	6.66	213	275341	51.11307 ppb	98
36) Hexachlorobutadiene	6.69	225	223327	49.12481 ppb	100
37) Caprolactum	7.05	55	113932	52.67166 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y201009\1009Y248.D Vial: 48
Acq On : 26 Oct 20 15:59 Operator: MA
Sample : 50ug/mL 8270 7/22/20 (6) Inst : Yoda
Misc : Multiplr: 1.00

Quant Time: Oct 26 16:00 2020 Quant Results File: Y1009.RES

Quant Method : M:\YODA\DATA\Y201009\Y1009.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Oct 09 14:58:57 2020
Response via : Initial Calibration
DataAcq Meth : SVOC1011

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	4-Chloro-3-methylphenol	7.18	107	338787	49.90774 ppb		93
39)	2-Methylnaphthalene	7.34	142	751784	51.56224 ppb		100
40)	1-Methylnaphthalene	7.45	142	779443	51.62095 ppb		98
42)	Hexachlorocyclopentadiene	7.53	237	251904	45.21994 ppb		98
43)	1,2,4,5-Tetrachlorobenzene	7.54	216	410606	50.90526 ppb		95
44)	2,4,6-Trichlorophenol	7.67	196	268648	50.17360 ppb		94
45)	2,4,5-Trichlorophenol	7.72	196	291573	51.97890 ppb		96
47)	1,1'-Biphenyl	7.88	154	974909	50.69914 ppb		99
48)	2-Chloronaphthalene	7.90	162	769482	50.59520 ppb		99
49)	2-Nitroaniline	8.02	65	184961	48.74652 ppb		82
50)	Dimethyl phthalate	8.24	163	932593	51.24980 ppb		100
51)	2,6-DNT	8.31	165	209892	51.91946 ppb		91
52)	Acenaphthylene	8.38	152	1194596	51.20083 ppb		100
53)	3-Nitroaniline	8.03	138	260829	52.05110 ppb		92
54)	Acenaphthene	8.59	154	768151	49.54599 ppb		99
55)	2,4-Dinitrophenol	8.62	184	101969	49.48721 ppb		93
56)	4-Nitrophenol	8.72	65	121020	42.87130 ppb		87
57)	Dibenzofuran	8.78	168	1102016	49.89952 ppb		98
58)	2,4-DNT	8.77	165	298392	51.87806 ppb		96
59)	2,3,4,6-Tetrachlorophenol	8.93	232	239388	51.10097 ppb		94
60)	Diethyl phthalate	9.07	149	886146	49.85750 ppb		99
61)	4-Chlorophenyl phenyl ethe	9.19	204	506768	49.44820 ppb		95
62)	Fluorene	9.18	166	930422	50.93231 ppb		99
63)	4-Nitroaniline	8.50	138	217704	51.90665 ppb		88
66)	4,6-Dinitro-2-methylphenol	9.25	198	198172	52.08999 ppb		91
67)	Diphenyl amine	9.34	169	1536857	103.82084 ppb		100
68)	n-Nitrosodiphenylamine	9.34	169	1536857	103.82084 ppb		100
69)	1,2-Diphenylhydrazine	9.38	77	694182	48.43896 ppb		91
70)	4-Bromophenyl phenyl ether	9.76	248	302341	51.63468 ppb	#	85
71)	Hexachlorobenzene	9.82	284	325915	51.79059 ppb		97
72)	Atrazine	9.96	200	134448	24.71611 ppb		100
73)	Pentachlorophenol	10.05	266	210104	49.06877 ppb		99
74)	Phenanthrene	10.30	178	1336313	50.33171 ppb		99
75)	Anthracene	10.36	178	1409425	51.07800 ppb		99
76)	Carbazol	10.55	167	1249123	50.32689 ppb		97
77)	Di-n-butylphthalate	10.98	149	1545750	51.46267 ppb		98
78)	Fluoranthene	11.69	202	1581178	51.50382 ppb		99
80)	Benzidine	11.85	184	439223	48.45024 ppb	#	97
81)	Pyrene	11.95	202	1642913	50.91892 ppb		99
83)	Butyl benzylphthalate	12.73	149	715490	53.81983 ppb		96
84)	3,3'-Dichlorobenzidine	13.33	252	608867	56.99352 ppb	#	97
85)	Benz (a) anthracene	13.35	228	1653717	50.90020 ppb		99
86)	Bis (2-ethylhexyl) phthala	13.39	149	966188	51.82530 ppb		96
87)	Chrysene	13.39	228	1586168	50.73262 ppb		99
88)	Di-n-octylphthalate	14.12	149	1666698	54.59761 ppb		100
90)	Benzo (b) fluoranthene	14.57	252	1744540	56.24255 ppb		98
91)	Benzo (k) fluoranthene	14.61	252	1381602	45.98183 ppb		98
92)	Benzo (a) pyrene	14.99	252	1506681	53.12364 ppb		99
93)	Indeno (1,2,3-cd) pyrene	16.74	276	1701199	53.12639 ppb		96
94)	Dibenz (a,h) anthracene	16.78	278	1497548	53.68474 ppb		97
95)	Benzo (g,h,i) perylene	17.25	276	1460291	52.49450 ppb		98

(#) = qualifier out of range (m) = manual integration