

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result
1	Standard	NPOC	0-20 NPOC_2201	0-20 NPOC_220126B	0-20 NPOC_220126B.2	1.000	

	Notes	Status	Date / Time	Vial
1		Completed	1/26/2022 5:33:05 PM	1, 2, 3, 4, 5,

Date of Creation 5:33:05 PM 1/26/2022  
 User DMB  
 System TOC4-C

Cal. Curve

Sample Name: 0-20 NPOC\_220126B  
 Sample ID: 0-20 NPOC\_220126B  
 Object ID: 0A-901000-10101000-13488DE2104A-0000  
 Cal. Curve: 0-20 NPOC\_220126B. cal  
 Status Completed  
 Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.248	1250uL	1	*****		1/26/2022 3:47:36 PM
2	4.758	1250uL	1	*****		1/26/2022 3:51:50 PM

Acid Add. 3.000%  
 Sp. Time 180.0sec  
 Mean Area 4.503  
 SD Area 0.3606  
 CV Area 8.01%  
 Vial 1  
 WetChem Oxid. 1.5mL

Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	57.01	1250uL	1	*****		1/26/2022 4:02:25 PM
2	56.70	1250uL	1	*****		1/26/2022 4:06:49 PM

Acid Add. 3.000%  
 Sp. Time 180.0sec  
 Mean Area 56.86  
 SD Area 0.2192  
 CV Area 0.39%  
 Vial 2  
 WetChem Oxid. 1.5mL

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	106.9	1250uL	1	*****		1/26/2022 4:17:29 PM
2	107.4	1250uL	1	*****		1/26/2022 4:21:36 PM

Acid Add. 3.000%  
 Sp. Time 180.0sec  
 Mean Area 107.2  
 SD Area 0.3536  
 CV Area 0.33%  
 Vial 3  
 WetChem Oxid. 1.5mL

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	511.6	1250uL	1	*****		1/26/2022 4:32:48 PM
2	512.8	1250uL	1	*****		1/26/2022 4:36:58 PM

Acid Add. 3.000%  
 Sp. Time 180.0sec  
 Mean Area 512.2  
 SD Area 0.8485  
 CV Area 0.17%  
 Vial 4  
 WetChem Oxid. 1.5mL

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1047	1250uL	1	*****		1/26/2022 4:49:06 PM
2	1033	1250uL	1	*****		1/26/2022 4:53:37 PM

Acid Add. 3.000%  
 Sp. Time 180.0sec  
 Mean Area 1040  
 SD Area 9.899  
 CV Area 0.95%  
 Vial 5  
 WetChem Oxid. 1.5mL

Conc: 15.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1522	1250uL	1	*****	E	1/26/2022 5:04:56 PM
2	1581	1250uL	1	*****		1/26/2022 5:10:44 PM
3	1578	1250uL	1	*****		1/26/2022 5:16:11 PM

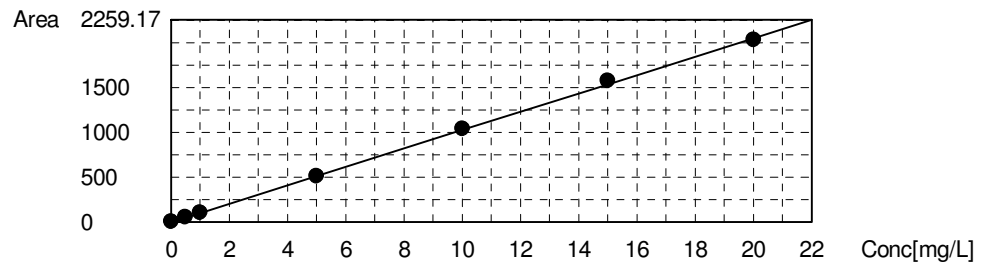
Acid Add. 3.000%  
 Sp. Time 180.0sec  
 Mean Area 1580  
 SD Area 2.121  
 CV Area 0.13%  
 Vial 6  
 WetChem Oxid. 1.5mL

Conc: 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2044	1250uL	1	*****		1/26/2022 5:28:13 PM
2	2026	1250uL	1	*****		1/26/2022 5:33:05 PM

Acid Add. 3.000%  
 Sp. Time 180.0sec  
 Mean Area 2035  
 SD Area 12.73  
 CV Area 0.63%  
 Vial 7  
 WetChem Oxid. 1.5mL

Slope: 102.7  
 Intercept 0.000  
 r<sup>2</sup> 0.9995  
 r 0.9998  
 Zero Shift Yes



# Energy Laboratories, Inc.

# ANALYTICAL RUN Summary

28-Jan-22

Run ID TOC4-C\_220127A

<b>Run Start Date:</b> 1/27/2022	Instrument ID	Description
<b>Analyst:</b> Nils T. Schenck	PIP-113	500 uL pipette
<b>Ical:</b>	PIP-114	1000 uL Pipette
<b>Column ID:</b>	PIP-119	10-100 uL adjustable pipette
<b>Comments:</b> Ready for David Brunner	PIP-122	5 mL Pipette
	PIP-128	
	PIP-133	10 mL Dispenser/H2O for TOC/DOC-Wet Lab
	TOC4-C	Total organic carbon analyzer

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
Na Persulfate 12% 211108	Sodium Persulfate 12%						11/8/2022
NTS AQ DOC A5310C DOC 09	NTS AQ DOC A5310C DOC 092221						8/22/2022
NTS AQ TOC A5310C DOC 09	NTS AQ TOC A5310C DOC 092321						8/23/2022
Phosphoric Acid 201124	Phosphoric Acid 20%						1/8/2023
Phosphoric Water 211108	Phosphoric Water						1/8/2023
TOC4_ICAL_220127	TOC4 Calibration					ICAL	9/28/2022

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423208	LCS	C-TOC-W	LCS		1/27/2022 9:45:2	1	R279097			0	0					

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.961	4.961		5	0	0	0.17	0.5	20	99%	91	111	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.961	4.961		5	0	0	0.17	0.5	20	99%	91	111	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423209	MBLK	C-TOC-W	MBLK		1/27/2022 9:59:5	1	R279097			0	0					

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.02244	0		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.02244	0		0	0	0	0.17	0.5	20	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423210	CCV	C-TOC-W	CCV		1/27/2022 10:19:	1	R279097			0	0					

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423210	CCV	C-TOC-W	CCV		1/27/2022 10:19:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.837	4.837		5	0	0	0.17	0.5	20	97%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.837	4.837		5	0	0	0.17	0.5	20	97%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423211	0 PPM	C-TOC-W	ICAL1		1/27/2022 10:33:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.01817	0.01817		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.01817	0.01817		0	0	0	0.17	0.5	20	0%	0	0	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423212	0.5 PPM	C-TOC-W	ICAL2		1/27/2022 10:52:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.5732	0.5732		0.5	0	0	0.17	0.5	20	115%	80	120	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.5732	0.5732		0.5	0	0	0.17	0.5	20	115%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423213	1 PPM	C-TOC-W	ICAL3		1/27/2022 11:07:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	1.09	1.09		1	0	0	0.17	0.5	20	109%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	1.09	1.09		1	0	0	0.17	0.5	20	109%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423214	5 PPM	C-TOC-W	ICAL4		1/27/2022 11:22:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	5.019	5.019		5	0	0	0.17	0.5	20	100%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	5.019	5.019		5	0	0	0.17	0.5	20	100%	90	110	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423215	10 PPM	C-TOC-W	ICAL5		1/27/2022 11:38:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	10.04	10.04		10	0	0	0.17	0.5	20	100%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	10.04	10.04		10	0	0	0.17	0.5	20	100%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423216	15 PPM	C-TOC-W	ICAL6		1/27/2022 11:55:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	15.28	15.28		15	0	0	0.17	0.5	20	102%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	15.28	15.28		15	0	0	0.17	0.5	20	102%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423217	20 PPM	C-TOC-W	ICAL7		1/27/2022 12:12:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	20.31	20.31		20	0	0	0.17	0.5	20	102%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	20.31	20.31		20	0	0	0.17	0.5	20	102%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423218	CCV	C-TOC-W	CCV		1/27/2022 12:30:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.931	4.931		5	0	0	0.17	0.5	20	99%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.931	4.931		5	0	0	0.17	0.5	20	99%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423219	CCB	C-TOC-W	CCB		1/27/2022 12:44:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.02391	0.02391		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.02391	0.02391		0	0	0	0.17	0.5	20	0%	0	0	0%	

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result
1	Unknown	NPOC	C-TOC-W	LCS	NPOC Method.met	1.000	NPOC:4.961m
2	Unknown	NPOC	C-TOC-W	MBLK	NPOC Method.met	1.000	NPOC:0.0224
3	Unknown	NPOC	C-TOC-W	CCV	NPOC Method.met	1.000	NPOC:4.837m
4	Unknown	NPOC	C-TOC-W	0 PPM	NPOC Method.met	1.000	NPOC:0.0181
5	Unknown	NPOC	C-TOC-W	0.5 PPM	NPOC Method.met	1.000	NPOC:0.5732
6	Unknown	NPOC	C-TOC-W	1 PPM	NPOC Method.met	1.000	NPOC:1.090m
7	Unknown	NPOC	C-TOC-W	5 PPM	NPOC Method.met	1.000	NPOC:5.019m
8	Unknown	NPOC	C-TOC-W	10 PPM	NPOC Method.met	1.000	NPOC:10.04m
9	Unknown	NPOC	C-TOC-W	15 PPM	NPOC Method.met	1.000	NPOC:15.28m
10	Unknown	NPOC	C-TOC-W	20 PPM	NPOC Method.met	1.000	NPOC:20.31m
11	Unknown	NPOC	C-TOC-W	CCV	NPOC Method.met	1.000	NPOC:4.931m
12	Unknown	NPOC	C-TOC-W	CCB	NPOC Method.met	1.000	NPOC:0.0239



	Notes	Status	Date / Time	Vial
1		Completed	1/27/2022 9:49:48 AM	1
2		Completed	1/27/2022 10:08:27 AM	2
3		Completed	1/27/2022 10:23:27 AM	3
4		Completed	1/27/2022 10:42:04 AM	4
5		Completed	1/27/2022 10:56:58 AM	5
6		Completed	1/27/2022 11:11:56 AM	6
7		Completed	1/27/2022 11:27:20 AM	7
8		Completed	1/27/2022 11:42:58 AM	8
9		Completed	1/27/2022 12:00:31 PM	9
10		Completed	1/27/2022 12:18:50 PM	10
11		Completed	1/27/2022 12:34:16 PM	11
12		Completed	1/27/2022 12:52:55 PM	12

## Instr.Information

System TOC4-C  
Instrument Options TOC/ASI/

## Sample

Sample Name: C-TOC-W  
Sample ID: LCS  
Origin: NPOC Method.met  
Status: Completed  
Chk. Result

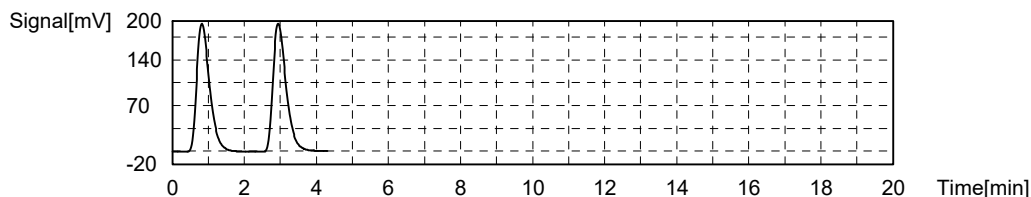
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.961mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	505.6	4.924mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 9:45:29 AM
2	513.2	4.998mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 9:49:48 AM

Mean Area 509.4  
Mean Conc. 4.961mg/L



## Sample

Sample Name: C-TOC-W  
Sample ID: MBLK  
Origin: NPOC Method.met  
Status: Completed  
Chk. Result

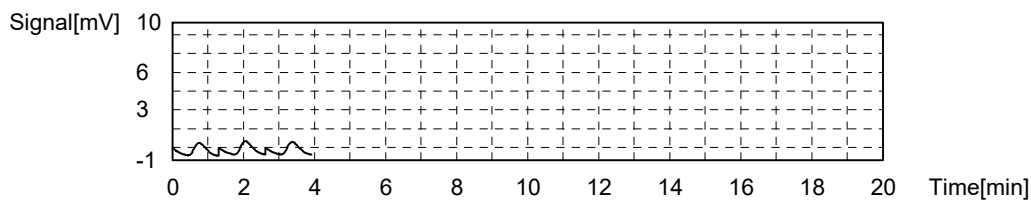
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02244mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.312	0.02251mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 9:59:57 AM
2	2.462	0.02398mg/L	1250uL	1	E	0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:04:13 AM
3	2.296	0.02236mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:08:27 AM

Mean Area 2.304  
Mean Conc. 0.02244mg/L



## Sample

Sample Name: C-TOC-W  
 Sample ID: CCV  
 Origin: NPOC Method.met  
 Status: Completed  
 Chk. Result

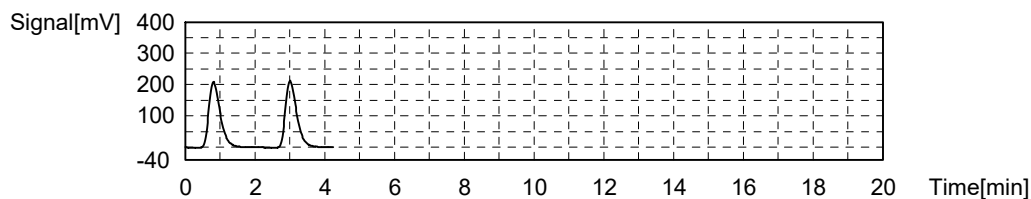
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.837mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	496.2	4.832mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:19:17 AM
2	497.3	4.843mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:23:27 AM

Mean Area 496.8  
 Mean Conc. 4.837mg/L



## Sample

Sample Name: C-TOC-W  
 Sample ID: 0 PPM  
 Origin: NPOC Method.met  
 Status: Completed  
 Chk. Result

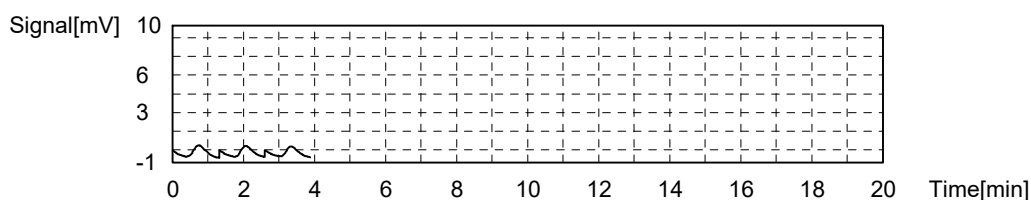
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01817mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.180	0.02123mg/L	1250uL	1	E	0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:33:37 AM
2	1.911	0.01861mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:37:50 AM
3	1.820	0.01772mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:42:04 AM

Mean Area 1.865  
 Mean Conc. 0.01817mg/L



## Sample

Sample Name: C-TOC-W  
 Sample ID: 0.5 PPM  
 Origin: NPOC Method.met  
 Status: Completed  
 Chk. Result

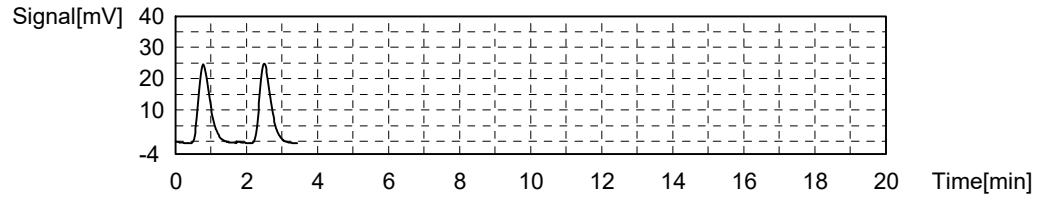
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5732mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.21	0.5766mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:52:25 AM
2	58.51	0.5698mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:56:58 AM

Mean Area 58.86  
Mean Conc. 0.5732mg/L



Sample

Sample Name: C-TOC-W  
Sample ID: 1 PPM  
Origin: NPOC Method.met  
Status: Completed  
Chk. Result

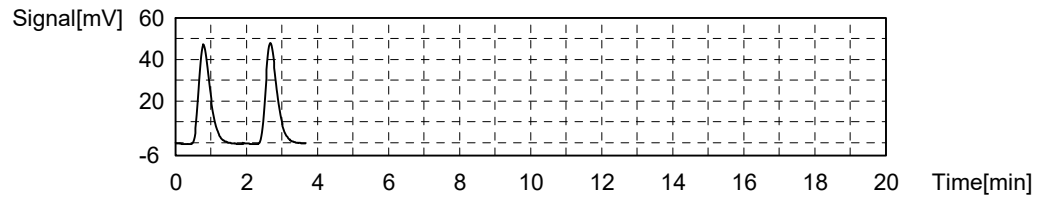
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.090mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	112.2	1.093mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 11:07:42 AM
2	111.6	1.087mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 11:11:56 AM

Mean Area 111.9  
Mean Conc. 1.090mg/L



Sample

Sample Name: C-TOC-W  
Sample ID: 5 PPM  
Origin: NPOC Method.met  
Status: Completed  
Chk. Result

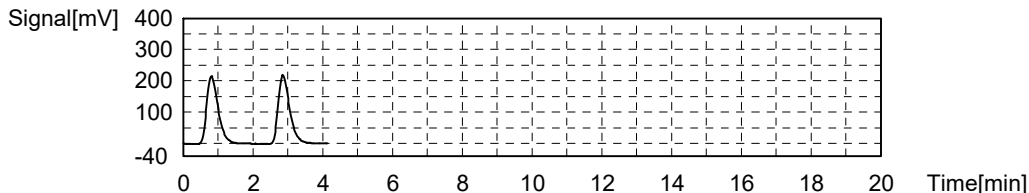
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.019mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	512.6	4.992mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:22:50 AM
2	518.3	5.047mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:27:20 AM

Mean Area 515.5  
Mean Conc. 5.019mg/L



## Sample

Sample Name: C-TOC-W  
Sample ID: 10 PPM  
Origin: NPOC Method.met  
Status: Completed  
Chk. Result

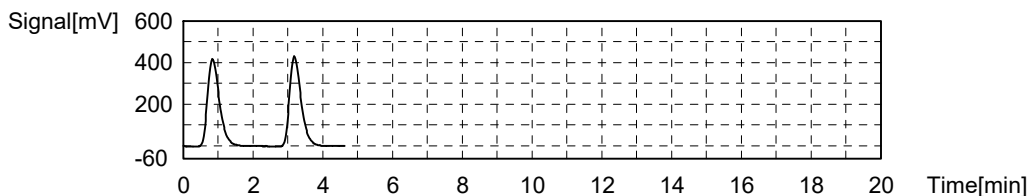
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.04mg/L

## 1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1031	10.04mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:38:32 AM
2	1032	10.05mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:42:58 AM

Mean Area 1032  
Mean Conc. 10.04mg/L



## Sample

Sample Name: C-TOC-W  
Sample ID: 15 PPM  
Origin: NPOC Method.met  
Status: Completed  
Chk. Result

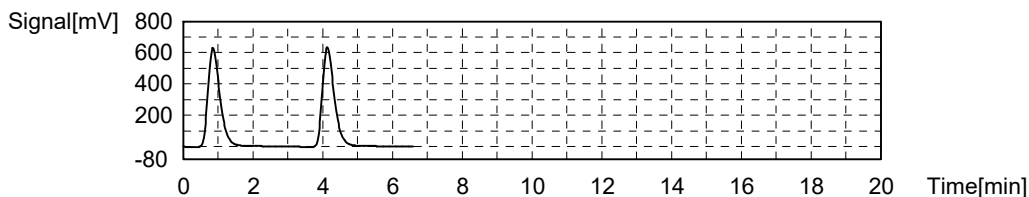
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.28mg/L

## 1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1568	15.27mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:55:06 AM
2	1570	15.29mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:00:31 PM

Mean Area 1569  
Mean Conc. 15.28mg/L



Sample

Sample Name: C-TOC-W  
Sample ID: 20 PPM  
Origin: NPOC Method.met  
Status: Completed  
Chk. Result

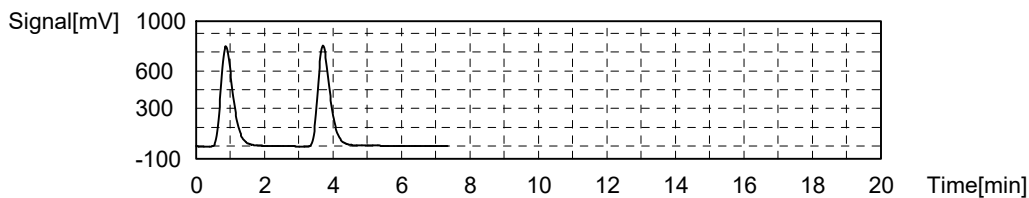
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.31mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2058	20.04mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:12:12 PM
2	2114	20.59mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:18:50 PM

Mean Area 2086  
Mean Conc. 20.31mg/L



Sample

Sample Name: C-TOC-W  
Sample ID: CCV  
Origin: NPOC Method.met  
Status: Completed  
Chk. Result

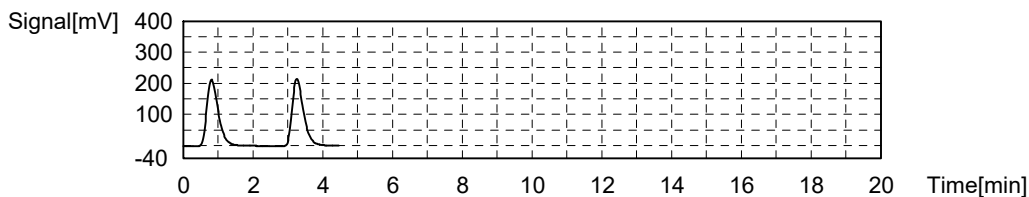
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.931mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	510.7	4.973mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:30:08 PM
2	502.1	4.889mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:34:16 PM

Mean Area 506.4  
Mean Conc. 4.931mg/L



Sample

Sample Name: C-TOC-W  
 Sample ID: CCB  
 Origin: NPOC Method.met  
 Status: Completed  
 Chk. Result:

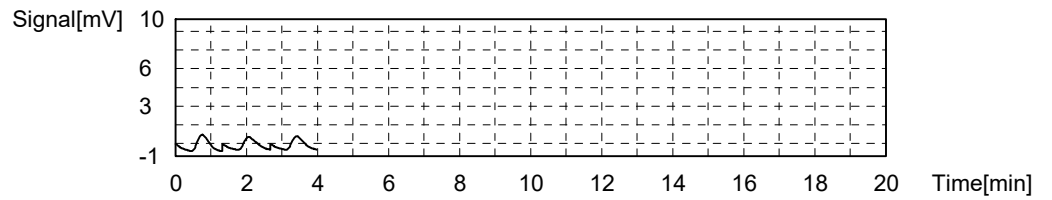
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02391mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.914	0.02838mg/L	1250uL	1	E	0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:44:26 PM
2	2.475	0.02410mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:48:43 PM
3	2.436	0.02372mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:52:55 PM

Mean Area 2.455  
 Mean Conc. 0.02391mg/L



# Energy Laboratories, Inc.

# ANALYTICAL RUN Summary

02-Mar-22

Run ID TOC4-C\_220301A

Run Start Date: 3/1/2022  
 Analyst: Nils T. Schenck  
 Ical:  
 Column ID:  
 Comments: Ready for Donny Juarez

Instrument ID	Description
PIP-128	
PIP-133	10 mL Dispenser/H2O for TOC/DOC-Wet Lab
TOC4-C	Total organic carbon analyzer

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
Na Persulfate 12% 220225	Sodium Persulfate 12%						4/25/2022
NTS AQ DOC A5310C DOC 09	NTS AQ DOC A5310C DOC 092221						8/22/2022
NTS AQ TOC A5310C DOC 09	NTS AQ TOC A5310C DOC 092321						8/23/2022
Phosphoric Acid 220222	Phosphoric Acid 20%						1/21/2023
Phosphoric Water 220222	Phosphoric Water						1/21/2023
TOC4_ICAL_220127	TOC4 Calibration					ICAL	9/28/2022

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445435	LCS	C-TOC-9060-W	LCS		3/1/2022 2:37:00	1	R280105			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.952	4.952		5	0	0	0.17	0.5	20	99%	91	111	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.952	4.952		5	0	0	0.17	0.5	20	99%	91	111	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445436	MBLK	C-TOC-9060-W	MBLK		3/1/2022 3:18:00	1	R280105			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.04332	0		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.04332	0		0	0	0	0.17	0.5	20	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445437	CCV	C-TOC-9060-W	CCV		3/1/2022 3:57:00	1	R280105			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q



Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445437	CCV	C-TOC-9060-W	CCV		3/1/2022 3:57:00	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.841	4.841		5	0	0	0.17	0.5	20	97%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.841	4.841		5	0	0	0.17	0.5	20	97%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445438	C22030010-001	C-TOC-9060-W	SAMP		3/1/2022 4:38:00	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.324525	0.324525		0	0	0	0.17	0.5	20	0%	0	0	0%	J
Nonpurgeable Organic Carbon	X	mg/L	0.324525	0.324525		0	0	0	0.17	0.5	20	0%	0	0	0%	J
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445439	C22030010-001	C-TOC-9060-W	MS		3/1/2022 5:20:00	1	R280105		8E+06	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	5.114	5.13957		5	0.324525	0	0.17085	0.5025	20	96%	91	111	0%	
Nonpurgeable Organic Carbon	X	mg/L	5.114	5.13957		5	0.324525	0	0.17085	0.5025	20	96%	91	111	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445440	C22030010-001	C-TOC-9060-W	MSD		3/1/2022 6:02:00	1	R280105		8E+06	8E+06						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	5.117	5.142585		5	0.324525	5.13957	0.17085	0.5025	20	96%	91	111	0%	
Nonpurgeable Organic Carbon	X	mg/L	5.117	5.142585		5	0.324525	5.13957	0.17085	0.5025	20	96%	91	111	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445441	C22030010-006	C-TOC-9060-W	SAMP		3/1/2022 6:45:00	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.53395	0.53395		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.53395	0.53395		0	0	0	0.17	0.5	20	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445442	C22030010-011	C-TOC-9060-W	SAMP		3/1/2022 7:26:00	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.262175	0.262175		0	0	0	0.17	0.5	20	0%	0	0	0%	J
Nonpurgeable Organic Carbon	X	mg/L	0.262175	0.262175		0	0	0	0.17	0.5	20	0%	0	0	0%	J
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445443	C22030011-001	C-TOC-9060-W	SAMP		3/1/2022 8:07:00	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.32225	0.32225		0	0	0	0.17	0.5	20	0%	0	0	0%	J
Nonpurgeable Organic Carbon	X	mg/L	0.32225	0.32225		0	0	0	0.17	0.5	20	0%	0	0	0%	J
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445444	C22030011-006	C-TOC-9060-W	SAMP		3/1/2022 8:46:00	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.282025	0.282025		0	0	0	0.17	0.5	20	0%	0	0	0%	J
Nonpurgeable Organic Carbon	X	mg/L	0.282025	0.282025		0	0	0	0.17	0.5	20	0%	0	0	0%	J
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445445	C22030011-011	C-TOC-9060-W	SAMP		3/1/2022 9:26:00	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	1.05925	1.05925		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	1.05925	1.05925		0	0	0	0.17	0.5	20	0%	0	0	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445446	C22030011-016	C-TOC-9060-W	SAMP		3/1/2022 10:07:0	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.3978	0.3978		0	0	0	0.17	0.5	20	0%	0	0	0%	J
Nonpurgeable Organic Carbon	X	mg/L	0.3978	0.3978		0	0	0	0.17	0.5	20	0%	0	0	0%	J

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445447	CCV	C-TOC-9060-W	CCV		3/1/2022 10:49:0	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.85625	4.85625		5	0	0	0.17	0.5	20	97%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.85625	4.85625		5	0	0	0.17	0.5	20	97%	90	110	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8445448	CCB	C-TOC-9060-W	CCB		3/1/2022 11:29:0	1	R280105		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.05186	0.05186		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.05186	0.05186		0	0	0	0.17	0.5	20	0%	0	0	0%	

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result
1	Unknown	NPOC	C-TOC-9060-W	LCS	C-TOC-9060-W.met	1.000	NPOC:5.027m
2	Unknown	NPOC	C-TOC-9060-W	LCS	C-TOC-9060-W.met	1.000	NPOC:4.926m
3	Unknown	NPOC	C-TOC-9060-W	LCS	C-TOC-9060-W.met	1.000	NPOC:4.936m
4	Unknown	NPOC	C-TOC-9060-W	LCS	C-TOC-9060-W.met	1.000	NPOC:4.919m
5	Unknown	NPOC	C-TOC-9060-W	MBLK	C-TOC-9060-W.met	1.000	NPOC:0.0456
6	Unknown	NPOC	C-TOC-9060-W	MBLK	C-TOC-9060-W.met	1.000	NPOC:0.0467
7	Unknown	NPOC	C-TOC-9060-W	MBLK	C-TOC-9060-W.met	1.000	NPOC:0.0400
8	Unknown	NPOC	C-TOC-9060-W	MBLK	C-TOC-9060-W.met	1.000	NPOC:0.0409
9	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.857m
10	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.848m
11	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.871m
12	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.788m
13	Unknown	NPOC	C-TOC-9060-W	C22030010-001E	C-TOC-9060-W.met	1.000	NPOC:0.3087
14	Unknown	NPOC	C-TOC-9060-W	C22030010-001E	C-TOC-9060-W.met	1.000	NPOC:0.3212
15	Unknown	NPOC	C-TOC-9060-W	C22030010-001E	C-TOC-9060-W.met	1.000	NPOC:0.3251
16	Unknown	NPOC	C-TOC-9060-W	C22030010-001E	C-TOC-9060-W.met	1.000	NPOC:0.3431
17	Unknown	NPOC	C-TOC-9060-W	C22030010-001EMS	C-TOC-9060-W.met	1.000	NPOC:5.117m
18	Unknown	NPOC	C-TOC-9060-W	C22030010-001EMS	C-TOC-9060-W.met	1.000	NPOC:5.136m
19	Unknown	NPOC	C-TOC-9060-W	C22030010-001EMS	C-TOC-9060-W.met	1.000	NPOC:5.075m
20	Unknown	NPOC	C-TOC-9060-W	C22030010-001EMS	C-TOC-9060-W.met	1.000	NPOC:5.128m
21	Unknown	NPOC	C-TOC-9060-W	C22030010-001EMSD	C-TOC-9060-W.met	1.000	NPOC:5.148m
22	Unknown	NPOC	C-TOC-9060-W	C22030010-001EMSD	C-TOC-9060-W.met	1.000	NPOC:5.079m
23	Unknown	NPOC	C-TOC-9060-W	C22030010-001EMSD	C-TOC-9060-W.met	1.000	NPOC:5.100m
24	Unknown	NPOC	C-TOC-9060-W	C22030010-001EMSD	C-TOC-9060-W.met	1.000	NPOC:5.141m
25	Unknown	NPOC	C-TOC-9060-W	C22030010-006E	C-TOC-9060-W.met	1.000	NPOC:0.5283
26	Unknown	NPOC	C-TOC-9060-W	C22030010-006E	C-TOC-9060-W.met	1.000	NPOC:0.5448
27	Unknown	NPOC	C-TOC-9060-W	C22030010-006E	C-TOC-9060-W.met	1.000	NPOC:0.5353
28	Unknown	NPOC	C-TOC-9060-W	C22030010-006E	C-TOC-9060-W.met	1.000	NPOC:0.5274
29	Unknown	NPOC	C-TOC-9060-W	C22030010-011E	C-TOC-9060-W.met	1.000	NPOC:0.2672
30	Unknown	NPOC	C-TOC-9060-W	C22030010-011E	C-TOC-9060-W.met	1.000	NPOC:0.2611
31	Unknown	NPOC	C-TOC-9060-W	C22030010-011E	C-TOC-9060-W.met	1.000	NPOC:0.2586
32	Unknown	NPOC	C-TOC-9060-W	C22030010-011E	C-TOC-9060-W.met	1.000	NPOC:0.2618
33	Unknown	NPOC	C-TOC-9060-W	C22030011-001E	C-TOC-9060-W.met	1.000	NPOC:0.3139
34	Unknown	NPOC	C-TOC-9060-W	C22030011-001E	C-TOC-9060-W.met	1.000	NPOC:0.3003
35	Unknown	NPOC	C-TOC-9060-W	C22030011-001E	C-TOC-9060-W.met	1.000	NPOC:0.3372
36	Unknown	NPOC	C-TOC-9060-W	C22030011-001E	C-TOC-9060-W.met	1.000	NPOC:0.3376
37	Unknown	NPOC	C-TOC-9060-W	C22030011-006E	C-TOC-9060-W.met	1.000	NPOC:0.2702
38	Unknown	NPOC	C-TOC-9060-W	C22030011-006E	C-TOC-9060-W.met	1.000	NPOC:0.2735
39	Unknown	NPOC	C-TOC-9060-W	C22030011-006E	C-TOC-9060-W.met	1.000	NPOC:0.2953
40	Unknown	NPOC	C-TOC-9060-W	C22030011-006E	C-TOC-9060-W.met	1.000	NPOC:0.2891
41	Unknown	NPOC	C-TOC-9060-W	C22030011-011E	C-TOC-9060-W.met	1.000	NPOC:1.028m
42	Unknown	NPOC	C-TOC-9060-W	C22030011-011E	C-TOC-9060-W.met	1.000	NPOC:1.053m
43	Unknown	NPOC	C-TOC-9060-W	C22030011-011E	C-TOC-9060-W.met	1.000	NPOC:1.071m
44	Unknown	NPOC	C-TOC-9060-W	C22030011-011E	C-TOC-9060-W.met	1.000	NPOC:1.085m
45	Unknown	NPOC	C-TOC-9060-W	C22030011-016E	C-TOC-9060-W.met	1.000	NPOC:0.4121
46	Unknown	NPOC	C-TOC-9060-W	C22030011-016E	C-TOC-9060-W.met	1.000	NPOC:0.3867
47	Unknown	NPOC	C-TOC-9060-W	C22030011-016E	C-TOC-9060-W.met	1.000	NPOC:0.3982
48	Unknown	NPOC	C-TOC-9060-W	C22030011-016E	C-TOC-9060-W.met	1.000	NPOC:0.3942
49	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.860m
50	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.802m
51	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.874m
52	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.889m
53	Unknown	NPOC	C-TOC-9060-W	CCB	C-TOC-9060-W.met	1.000	NPOC:0.0515
54	Unknown	NPOC	C-TOC-9060-W	CCB	C-TOC-9060-W.met	1.000	NPOC:0.0449
55	Unknown	NPOC	C-TOC-9060-W	CCB	C-TOC-9060-W.met	1.000	NPOC:0.0536
56	Unknown	NPOC	C-TOC-9060-W	CCB	C-TOC-9060-W.met	1.000	NPOC:0.0573

	Notes	Status	Date / Time	Vial
1		Completed	3/1/2022 2:37:56 PM	1
2		Completed	3/1/2022 2:47:30 PM	1
3		Completed	3/1/2022 2:58:34 PM	2
4		Completed	3/1/2022 3:08:08 PM	2
5		Completed	3/1/2022 3:18:25 PM	3
6		Completed	3/1/2022 3:27:14 PM	3
7		Completed	3/1/2022 3:37:30 PM	4
8		Completed	3/1/2022 3:46:19 PM	4
9		Completed	3/1/2022 3:57:15 PM	5
10		Completed	3/1/2022 4:06:53 PM	5
11		Completed	3/1/2022 4:17:48 PM	6
12		Completed	3/1/2022 4:27:16 PM	6
13		Completed	3/1/2022 4:38:19 PM	7
14		Completed	3/1/2022 4:47:55 PM	7
15		Completed	3/1/2022 4:58:58 PM	8
16		Completed	3/1/2022 5:08:43 PM	8
17		Completed	3/1/2022 5:20:10 PM	9
18		Completed	3/1/2022 5:30:03 PM	9
19		Completed	3/1/2022 5:41:22 PM	10
20		Completed	3/1/2022 5:51:16 PM	10
21		Completed	3/1/2022 6:02:45 PM	11
22		Completed	3/1/2022 6:12:36 PM	11
23		Completed	3/1/2022 6:23:58 PM	12
24		Completed	3/1/2022 6:33:55 PM	12
25		Completed	3/1/2022 6:45:00 PM	13
26		Completed	3/1/2022 6:54:46 PM	13
27		Completed	3/1/2022 7:06:01 PM	14
28		Completed	3/1/2022 7:15:48 PM	14
29		Completed	3/1/2022 7:26:50 PM	15
30		Completed	3/1/2022 7:36:22 PM	15
31		Completed	3/1/2022 7:47:19 PM	16
32		Completed	3/1/2022 7:56:48 PM	16
33		Completed	3/1/2022 8:07:23 PM	17
34		Completed	3/1/2022 8:16:28 PM	17
35		Completed	3/1/2022 8:27:01 PM	18
36		Completed	3/1/2022 8:36:08 PM	18
37		Completed	3/1/2022 8:46:41 PM	19
38		Completed	3/1/2022 8:55:46 PM	19
39		Completed	3/1/2022 9:06:19 PM	20
40		Completed	3/1/2022 9:15:24 PM	20
41		Completed	3/1/2022 9:26:10 PM	21
42		Completed	3/1/2022 9:35:31 PM	21
43		Completed	3/1/2022 9:46:21 PM	22
44		Completed	3/1/2022 9:55:44 PM	22
45		Completed	3/1/2022 10:07:15 PM	23
46		Completed	3/1/2022 10:17:17 PM	23
47		Completed	3/1/2022 10:28:46 PM	24
48		Completed	3/1/2022 10:38:49 PM	24
49		Completed	3/1/2022 10:49:41 PM	25
50		Completed	3/1/2022 10:59:08 PM	25
51		Completed	3/1/2022 11:10:03 PM	26
52		Completed	3/1/2022 11:19:32 PM	26
53		Completed	3/1/2022 11:29:55 PM	27
54		Completed	3/1/2022 11:38:46 PM	27
55		Completed	3/1/2022 11:49:07 PM	28
56		Completed	3/1/2022 11:57:59 PM	28

Instr.Information

System TOC4-C  
Instrument Options TOC/ASI/

Sample

Sample Name: C-TOC-9060-W  
Sample ID: LCS  
Origin: C-TOC-9060-W.met  
Status Completed  
Chk. Result

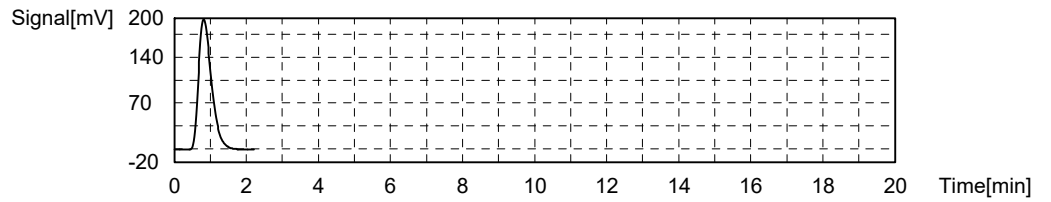
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.027mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	516.2	5.027mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 2:37:56 PM

Mean Area 516.2  
Mean Conc. 5.027mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: LCS  
Origin: C-TOC-9060-W.met  
Status Completed  
Chk. Result

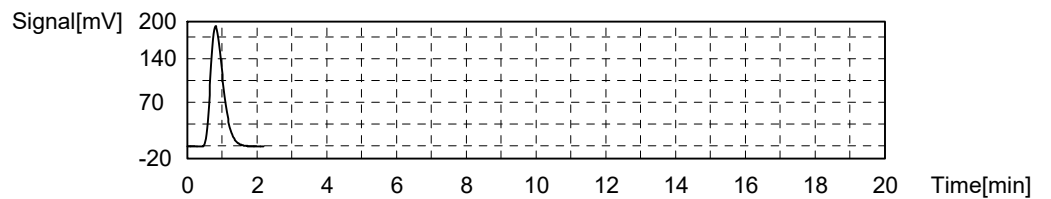
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.926mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	505.9	4.926mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 2:47:30 PM

Mean Area 505.9  
Mean Conc. 4.926mg/L



Sample

Sample Name: C-TOC-9060-W  
 Sample ID: LCS  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

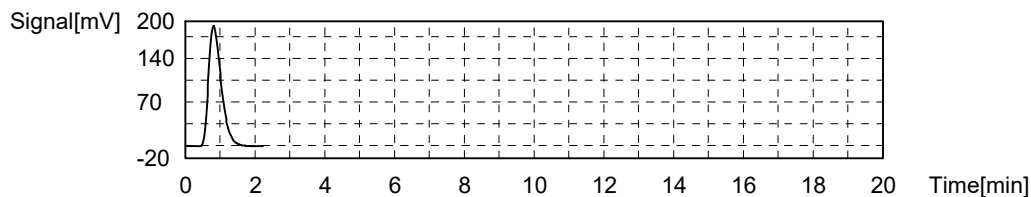
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.936mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	506.9	4.936mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 2:58:34 PM

Mean Area 506.9  
 Mean Conc. 4.936mg/L



Sample

Sample Name: C-TOC-9060-W  
 Sample ID: LCS  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

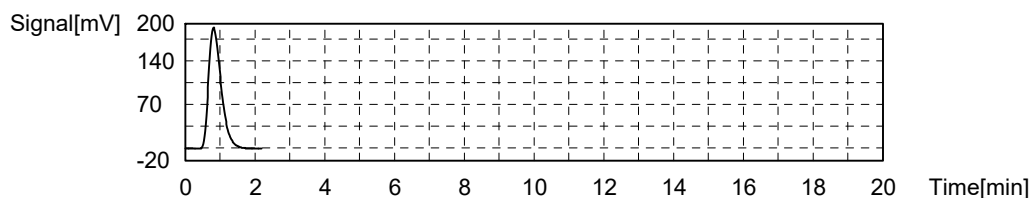
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.919mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	505.1	4.919mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 3:08:08 PM

Mean Area 505.1  
 Mean Conc. 4.919mg/L



Sample

Sample Name: C-TOC-9060-W  
 Sample ID: MBLK  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

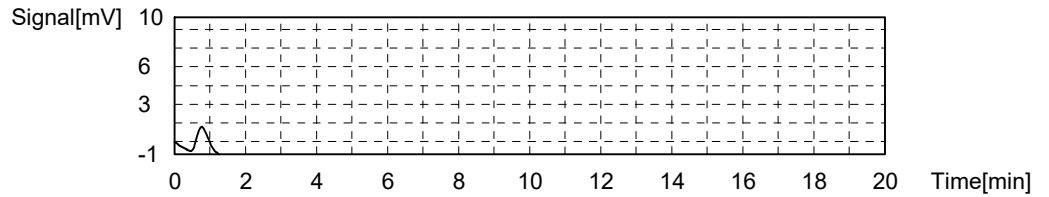
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04560mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.683	0.04560mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 3:18:25 PM

Mean Area 4.683  
Mean Conc. 0.04560mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: MBLK  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

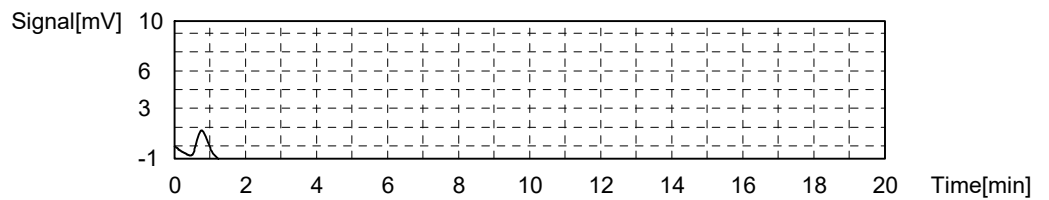
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04674mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.800	0.04674mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 3:27:14 PM

Mean Area 4.800  
Mean Conc. 0.04674mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: MBLK  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04002mg/L

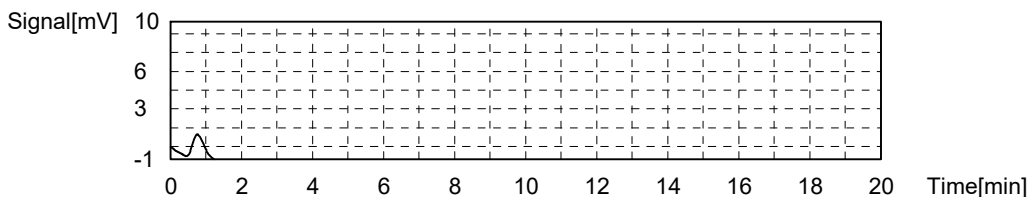
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.110	0.04002mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 3:37:30 PM



Mean Area 4.110  
Mean Conc. 0.04002mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: MBLK  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

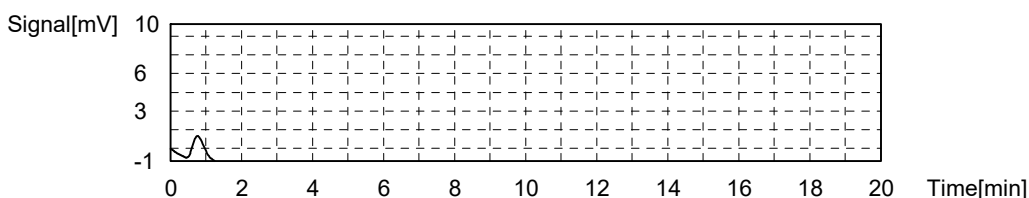
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04092mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.202	0.04092mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 3:46:19 PM

Mean Area 4.202  
Mean Conc. 0.04092mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: CCV  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

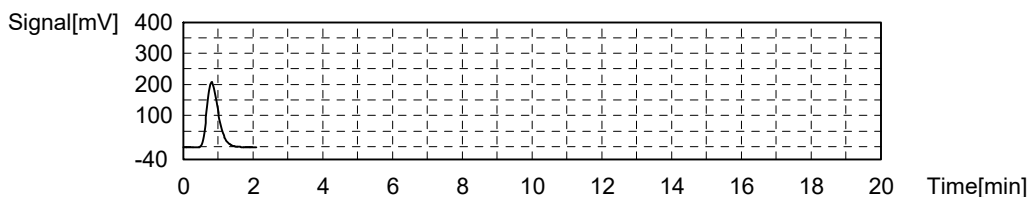
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.857mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	498.8	4.857mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 3:57:15 PM

Mean Area 498.8  
Mean Conc. 4.857mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: CCV  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

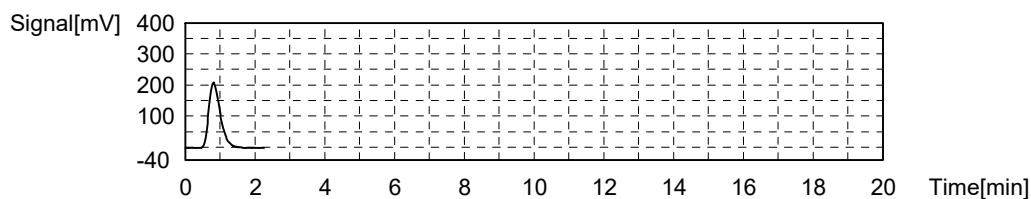
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.848mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	497.8	4.848mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 4:06:53 PM

Mean Area 497.8  
 Mean Conc. 4.848mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: CCV  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

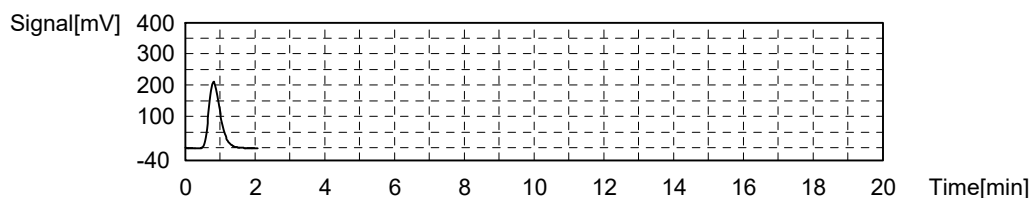
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.871mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	500.2	4.871mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 4:17:48 PM

Mean Area 500.2  
 Mean Conc. 4.871mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: CCV  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

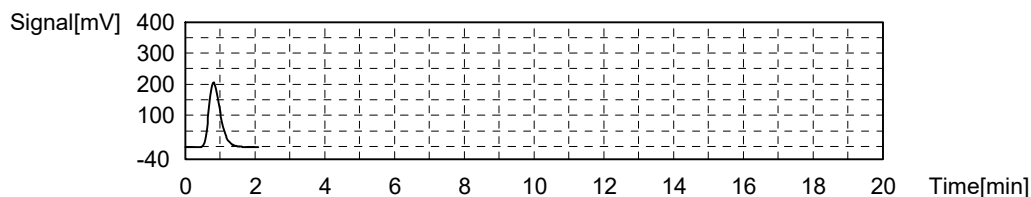
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.788mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	491.7	4.788mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 4:27:16 PM

Mean Area 491.7  
Mean Conc. 4.788mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-001E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

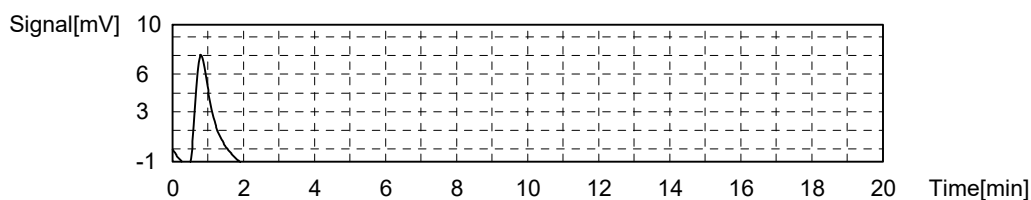
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3087mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	31.70	0.3087mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 4:38:19 PM

Mean Area 31.70  
Mean Conc. 0.3087mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-001E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

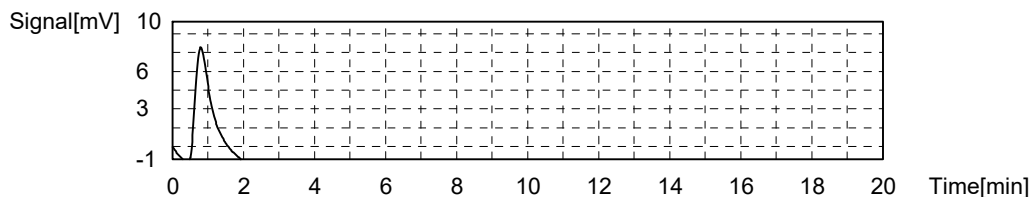
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3212mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.98	0.3212mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 4:47:55 PM

Mean Area 32.98  
Mean Conc. 0.3212mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-001E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

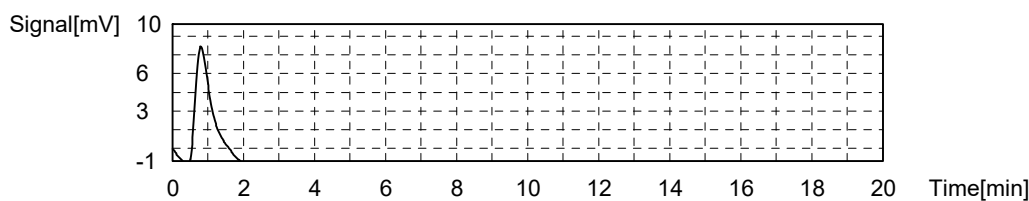
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3251mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.38	0.3251mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 4:58:58 PM

Mean Area 33.38  
Mean Conc. 0.3251mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-001E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

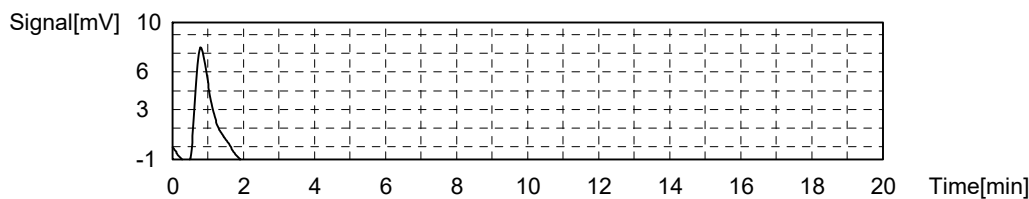
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3431mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.23	0.3431mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 5:08:43 PM

Mean Area 35.23  
Mean Conc. 0.3431mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030010-001EMS  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

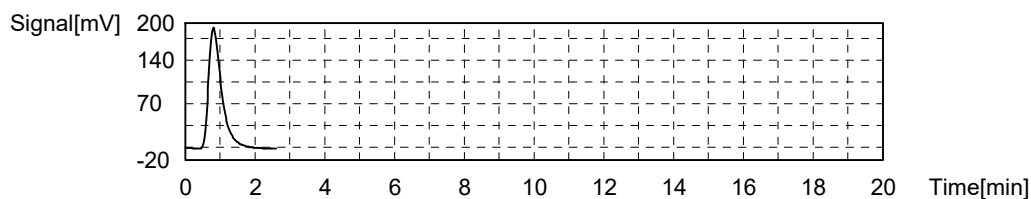
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.117mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	525.5	5.117mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 5:20:10 PM

Mean Area 525.5  
 Mean Conc. 5.117mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030010-001EMS  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

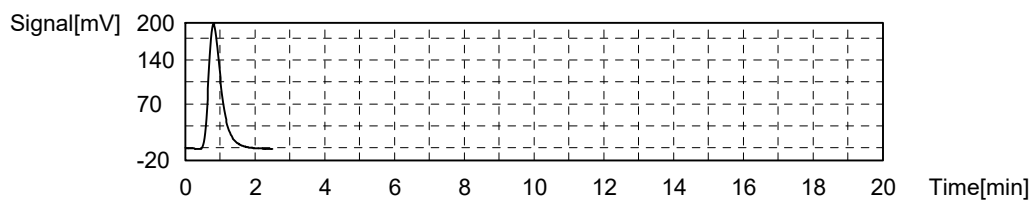
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.136mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	527.4	5.136mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 5:30:03 PM

Mean Area 527.4  
 Mean Conc. 5.136mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030010-001EMS  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

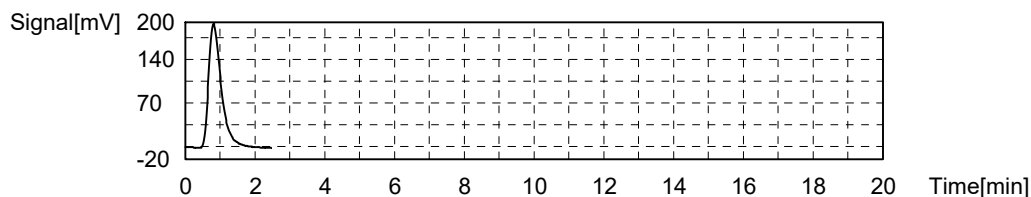
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.075mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	521.1	5.075mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 5:41:22 PM

Mean Area 521.1  
Mean Conc. 5.075mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-001EMS  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

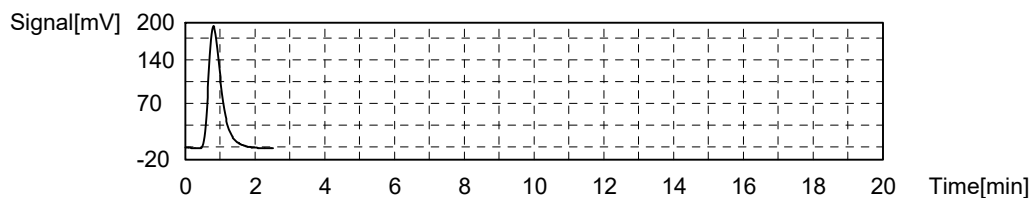
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.128mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	526.6	5.128mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 5:51:16 PM

Mean Area 526.6  
Mean Conc. 5.128mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-001EMSD  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

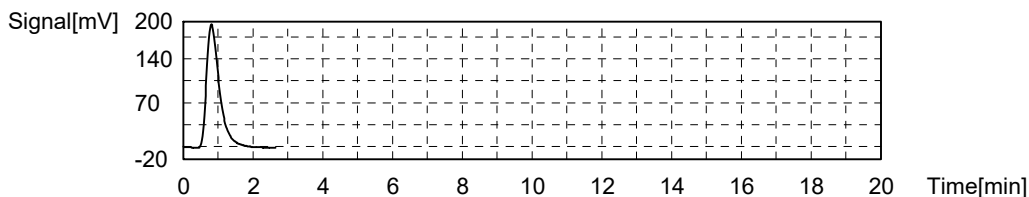
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.148mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	528.6	5.148mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 6:02:45 PM

Mean Area 528.6  
Mean Conc. 5.148mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-001EMSD  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

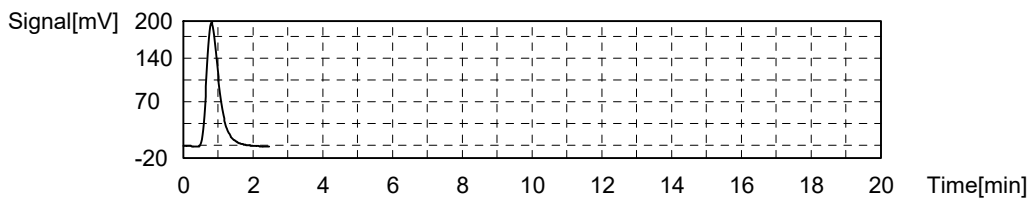
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.079mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	521.6	5.079mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 6:12:36 PM

Mean Area 521.6  
Mean Conc. 5.079mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-001EMSD  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

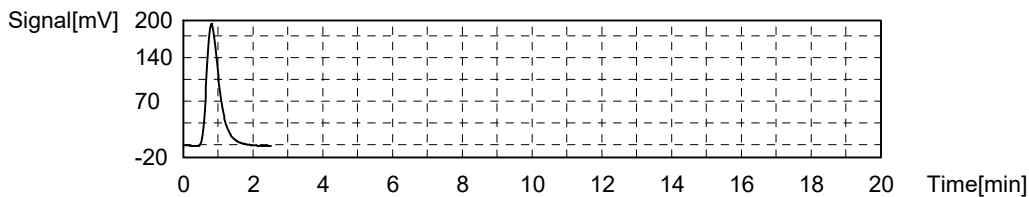
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.100mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	523.7	5.100mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 6:23:58 PM

Mean Area 523.7  
Mean Conc. 5.100mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030010-001EMSD  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

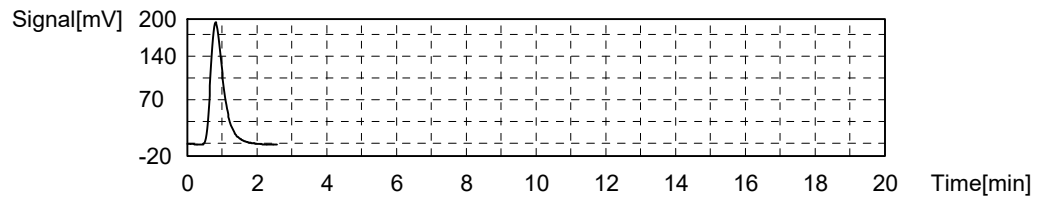
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.141mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	527.9	5.141mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 6:33:55 PM

Mean Area 527.9  
 Mean Conc. 5.141mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030010-006E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

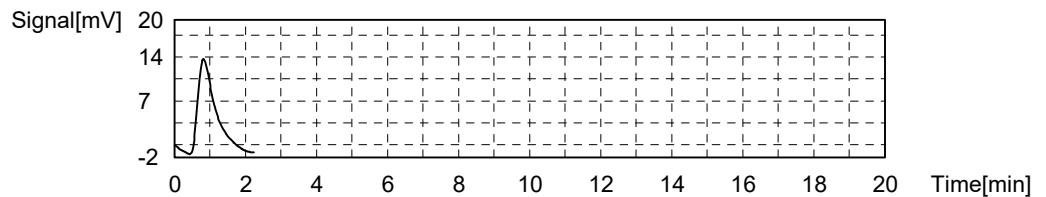
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5283mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.25	0.5283mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 6:45:00 PM

Mean Area 54.25  
 Mean Conc. 0.5283mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030010-006E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result



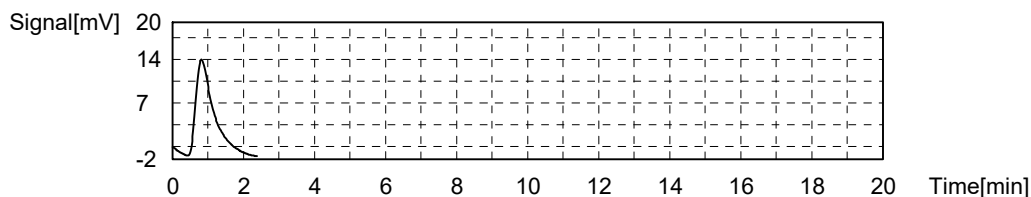
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5448mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	55.95	0.5448mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 6:54:46 PM

Mean Area 55.95  
Mean Conc. 0.5448mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-006E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

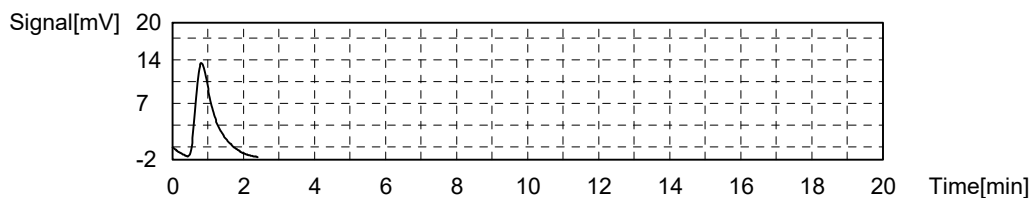
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5353mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.97	0.5353mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 7:06:01 PM

Mean Area 54.97  
Mean Conc. 0.5353mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-006E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

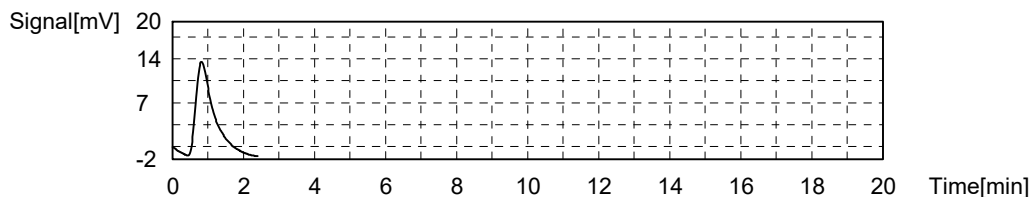
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5274mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.16	0.5274mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 7:15:48 PM

Mean Area 54.16  
Mean Conc. 0.5274mg/L



## Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-011E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

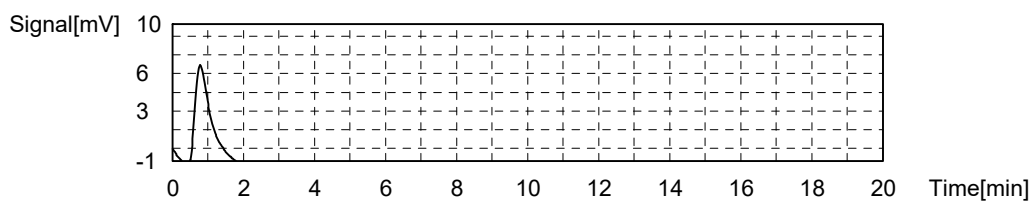
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2672mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.44	0.2672mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 7:26:50 PM

Mean Area 27.44  
Mean Conc. 0.2672mg/L



## Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030010-011E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

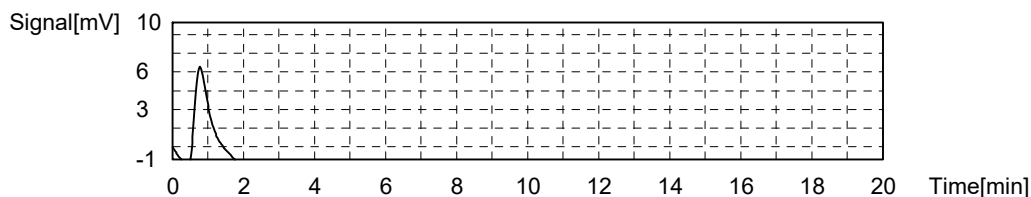
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2611mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	26.81	0.2611mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 7:36:22 PM

Mean Area 26.81  
Mean Conc. 0.2611mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030010-011E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

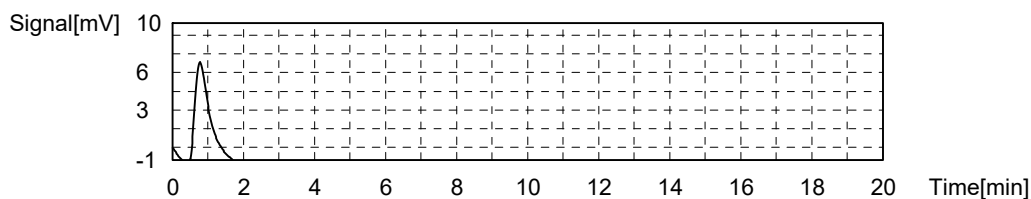
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2586mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	26.56	0.2586mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 7:47:19 PM

Mean Area 26.56  
 Mean Conc. 0.2586mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030010-011E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

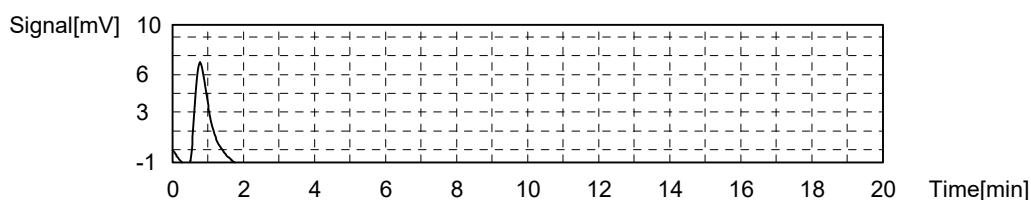
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2618mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	26.88	0.2618mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 7:56:48 PM

Mean Area 26.88  
 Mean Conc. 0.2618mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030011-001E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

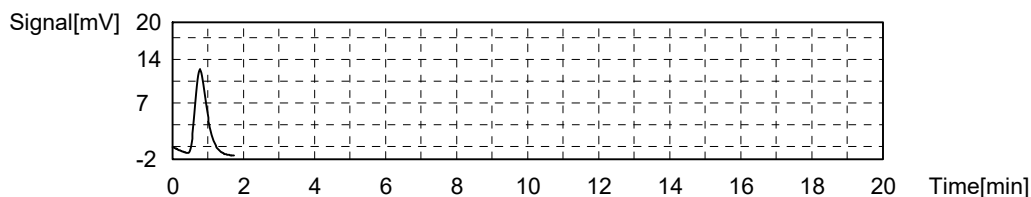
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3139mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.23	0.3139mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 8:07:23 PM

Mean Area 32.23  
Mean Conc. 0.3139mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030011-001E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

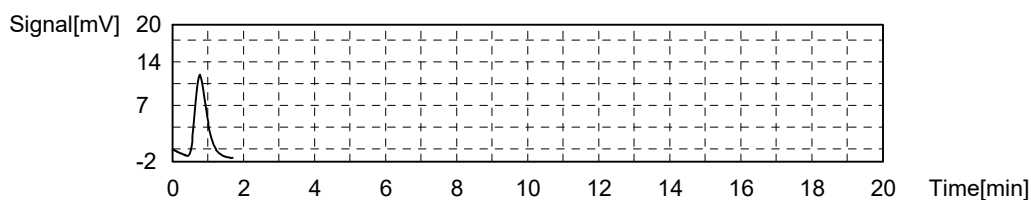
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3003mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.84	0.3003mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 8:16:28 PM

Mean Area 30.84  
Mean Conc. 0.3003mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030011-001E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

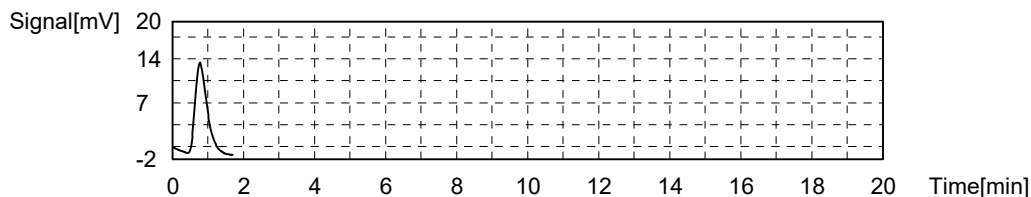
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3372mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.63	0.3372mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 8:27:01 PM

Mean Area 34.63  
Mean Conc. 0.3372mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030011-001E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

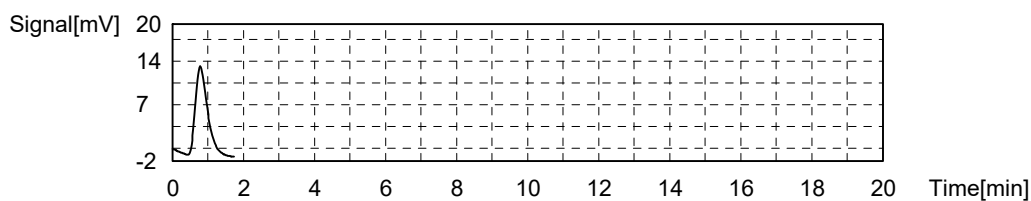
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3376mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.67	0.3376mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 8:36:08 PM

Mean Area 34.67  
Mean Conc. 0.3376mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030011-006E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

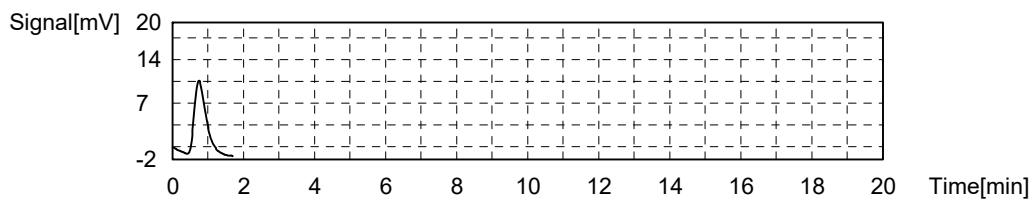
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2702mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.75	0.2702mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 8:46:41 PM

Mean Area 27.75  
Mean Conc. 0.2702mg/L



Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030011-006E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

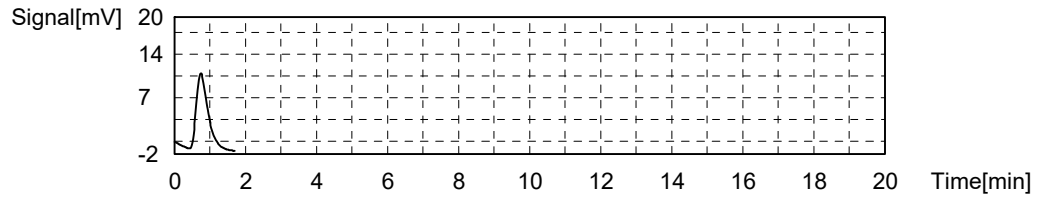
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2735mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	28.09	0.2735mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 8:55:46 PM

Mean Area 28.09  
 Mean Conc. 0.2735mg/L



Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030011-006E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

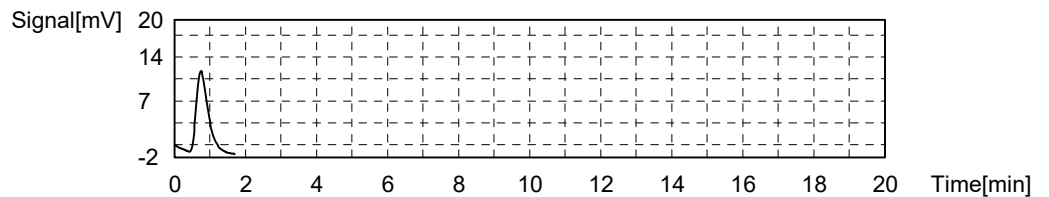
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2953mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.32	0.2953mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 9:06:19 PM

Mean Area 30.32  
 Mean Conc. 0.2953mg/L



Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030011-006E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

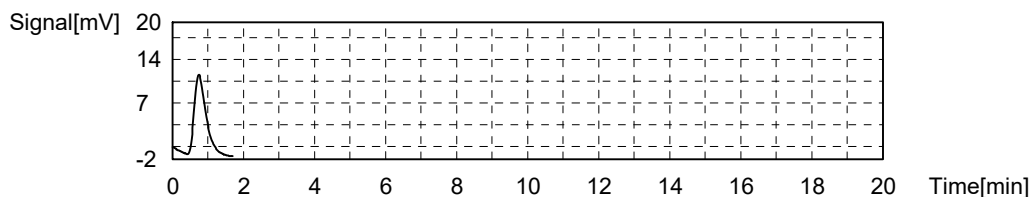
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2891mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	29.69	0.2891mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 9:15:24 PM

Mean Area 29.69  
Mean Conc. 0.2891mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030011-011E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

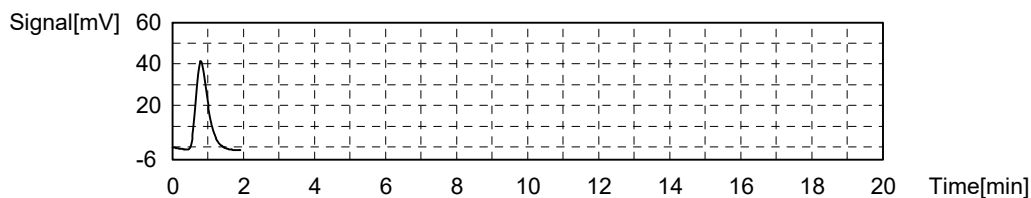
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.028mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.6	1.028mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 9:26:10 PM

Mean Area 105.6  
Mean Conc. 1.028mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030011-011E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

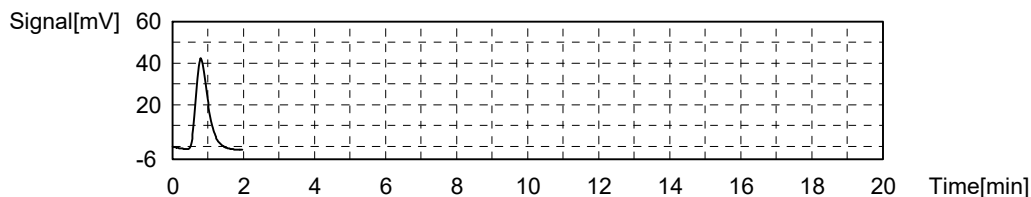
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.053mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	108.1	1.053mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 9:35:31 PM

Mean Area 108.1  
Mean Conc. 1.053mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030011-011E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

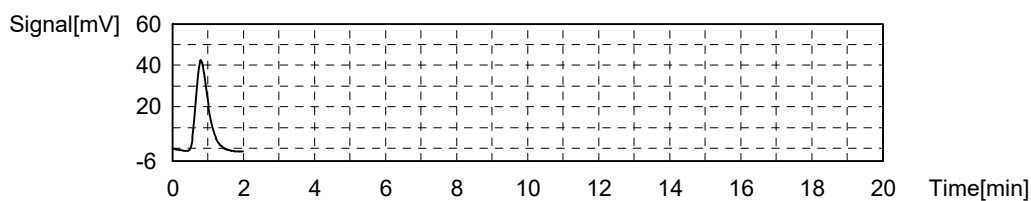
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.071mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	110.0	1.071mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 9:46:21 PM

Mean Area 110.0  
Mean Conc. 1.071mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030011-011E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

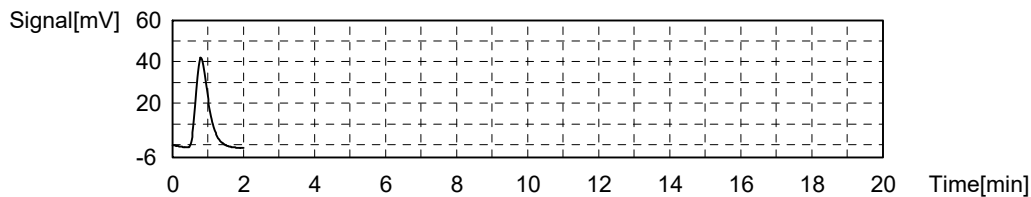
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.085mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	111.4	1.085mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 9:55:44 PM

Mean Area 111.4  
Mean Conc. 1.085mg/L





## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030011-016E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

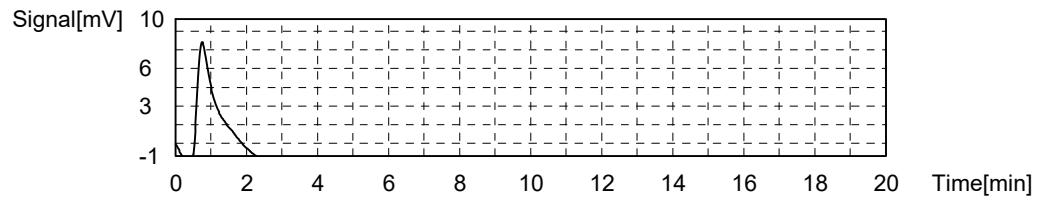
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4121mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	42.32	0.4121mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 10:07:15 PM

Mean Area 42.32  
 Mean Conc. 0.4121mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030011-016E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

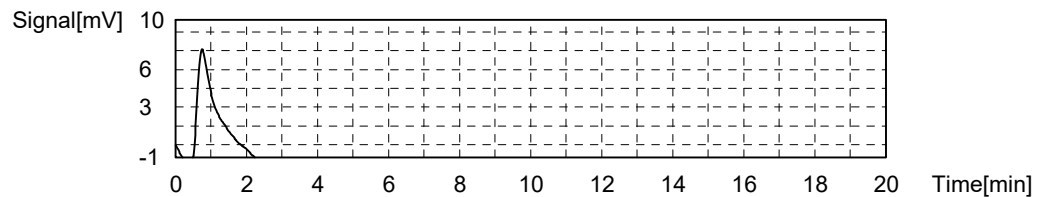
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3867mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	39.71	0.3867mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 10:17:17 PM

Mean Area 39.71  
 Mean Conc. 0.3867mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: C22030011-016E  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

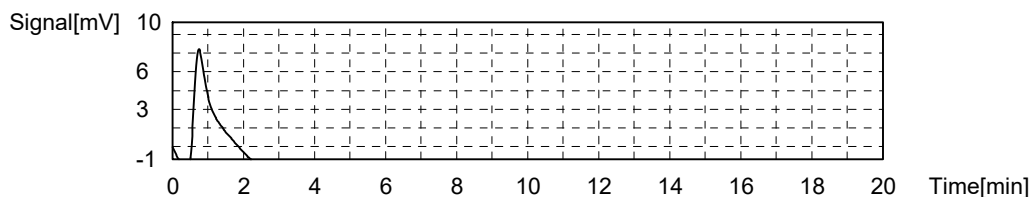
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3982mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.89	0.3982mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 10:28:46 PM

Mean Area 40.89  
Mean Conc. 0.3982mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: C22030011-016E  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

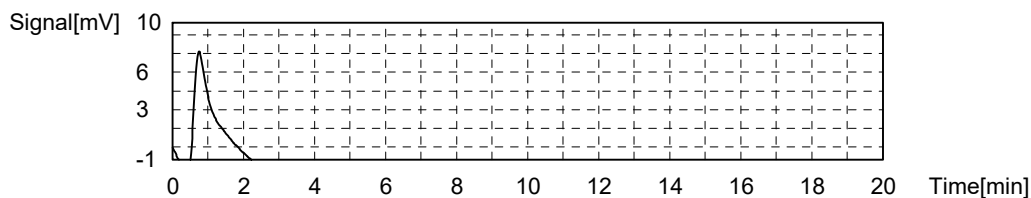
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3942mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.48	0.3942mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 10:38:49 PM

Mean Area 40.48  
Mean Conc. 0.3942mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: CCV  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

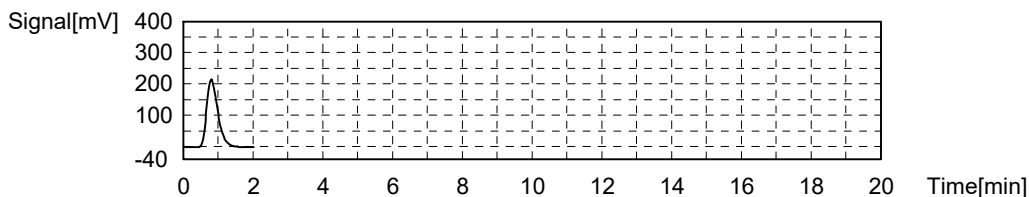
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.860mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	499.1	4.860mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 10:49:41 PM

Mean Area 499.1  
Mean Conc. 4.860mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: CCV  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

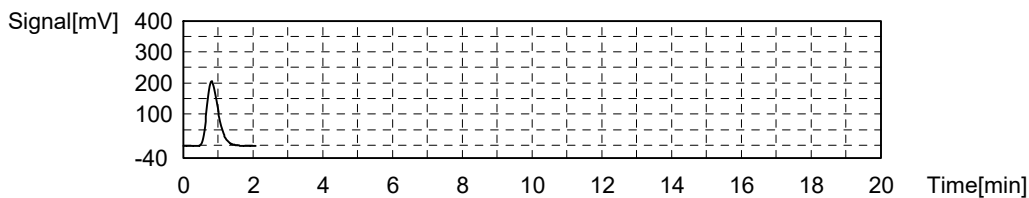
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.802mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	493.1	4.802mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 10:59:08 PM

Mean Area 493.1  
Mean Conc. 4.802mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: CCV  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

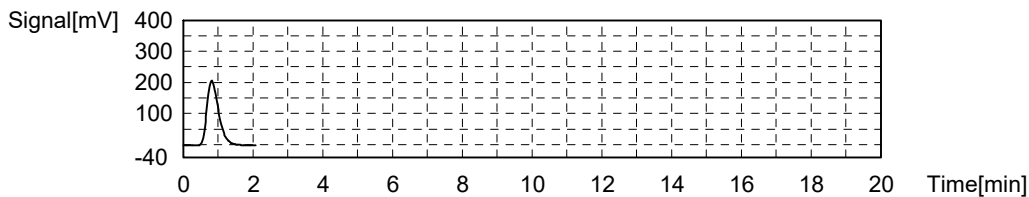
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.874mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	500.5	4.874mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 11:10:03 PM

Mean Area 500.5  
Mean Conc. 4.874mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: CCV  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

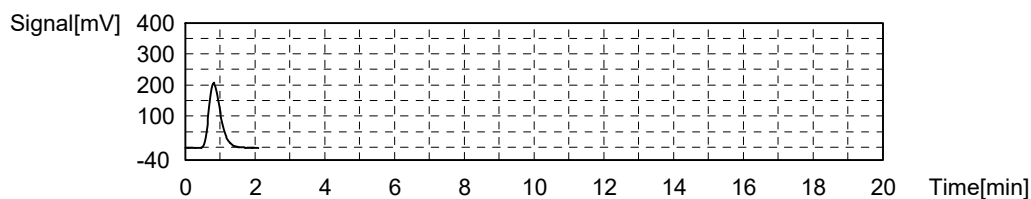
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.889mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	502.1	4.889mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 11:19:32 PM

Mean Area 502.1  
 Mean Conc. 4.889mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: CCB  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

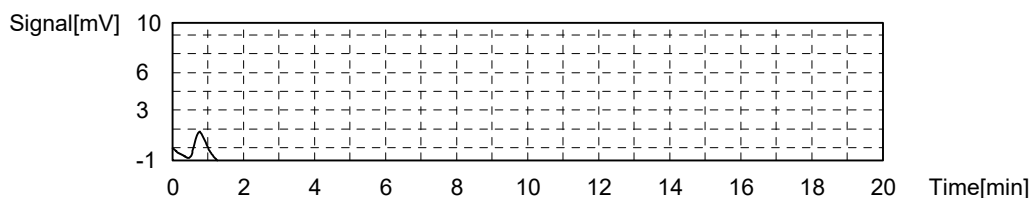
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05151mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.290	0.05151mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	3/1/2022 11:29:55 PM

Mean Area 5.290  
 Mean Conc. 0.05151mg/L



## Sample

Sample Name: C-TOC-9060-W  
 Sample ID: CCB  
 Origin: C-TOC-9060-W.met  
 Status: Completed  
 Chk. Result

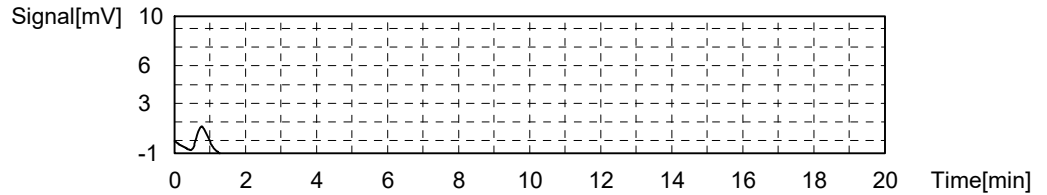
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04492mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.613	0.04492mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 11:38:46 PM

Mean Area 4.613  
Mean Conc. 0.04492mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: CCB  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

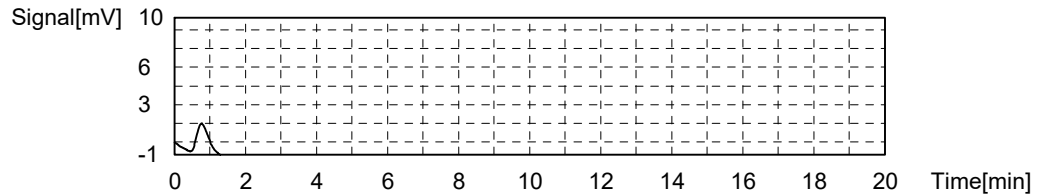
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05362mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.506	0.05362mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 11:49:07 PM

Mean Area 5.506  
Mean Conc. 0.05362mg/L



Sample

Sample Name: C-TOC-9060-W  
Sample ID: CCB  
Origin: C-TOC-9060-W.met  
Status: Completed  
Chk. Result

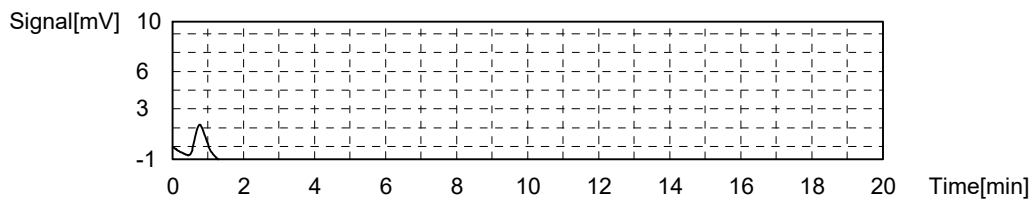
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05739mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.893	0.05739mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	3/1/2022 11:57:59 PM

Mean Area 5.893  
Mean Conc. 0.05739mg/L



## Standards

Std ID
Na Persulfate 12% 211108
NTS AQ DOC A5310C DOC 092221
NTS AQ TOC A5310C DOC 092321
Phosphoric Acid 220222
Phosphoric Water 220222
TOC4_ICAL_220127

## Reagents

Reagent Name	Number	SampType
Puradisc 25 Syringe Filter-16950886	11023	
Organic Carbon Standard-2111C03	12375	LCS,MS,MSD
Organic Carbon Standard-710920m	11940	CCV,ICAL
Nitrogen UHP - 1-182-304	12104	

# Energy Laboratories, Inc.

# Standard LOG

Standard ID: NA PERSULFATE 12% 211108  
Standard Name: Sodium Persulfate 12%  
Date Prepared: 11/8/2021  
Date Expires: 11/8/2022  
Department: INORG  
Vendor:  
Lot Number:  
Balance ID: BAL-109  
Comments:  
Type: Secondary  
BY: Nils T. Schenck  
Status: Open

---

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Phosphoric Acid - 60151	11571	30	mL	6/25/
Solution-2000-D	9959	970	mL	2/8/2
Sodium peroxydisulfate, 98% - Z30G0	11981	120	g	12/14

**Final Volume:** 1000 mL

Stock Source

**Base Units**

**Amount Added**

Analvtes

**CAS**

Conc: ug/mL



# Energy Laboratories, Inc.

# Standard LOG

Standard ID: PHOSPHORIC ACID 220222  
Standard Name: Phosphoric Acid 20%  
Date Prepared: 2/22/2022  
Date Expires: 1/21/2023  
Department: INORG  
Vendor:  
Lot Number:  
Balance ID:  
Comments:

Type: Secondary  
BY: Nils T. Schenck  
Status: Open

---

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Phosphoric Acid - 61223	12247	200	mL	10/18
Solution-2000-D	9959	800	mL	1/21/

**Final Volume:** 1000 mL

Stock Source

**Base Units**

**Amount Added**

Analvtes

**CAS**

Conc: ug/mL

# Energy Laboratories, Inc.

# Standard LOG

Standard ID: PHOSPHORIC WATER 220222  
Standard Name: Phosphoric Water  
Date Prepared: 2/22/2022  
Date Expires: 1/21/2023  
Department: INORG  
Vendor:  
Lot Number:  
Balance ID:  
Comments:

Type: Secondary  
BY: Nils T. Schenck  
Status: Open

---

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Solution-2000-D	9959	2496	mL	1/21/
Phosphoric Acid - 61223	12247	4	mL	10/18

**Final Volume:** 2500 mL

**Stock Source**

**Base Units**

**Amount Added**

**Analvtes**

**CAS**

Conc: **ug/mL**

# Certificate of Analysis



Date of Release: 8/26/2021  
 Name: Phosphoric Acid (Orthophosphoric Acid)  
 85% w/w, GR ACS  
 Meets ACS Specifications  
 Item No: PX0995 all size codes  
 Lot / Batch No: 61223  
 Country of Origin: Switzerland

Characteristic	Requirement		Results	Units
	Min.	Max.		
Antimony (Sb)		0.002	< 0.0002	%
Arsenic (As)		1	<1	ppm
Assay	85.0		85.8	%
Calcium (Ca)		0.002	< 0.0001	%
Chloride (Cl)		3	<3	ppm
Color (APHA)		10	<10	
Form			Clear liquid	
Heavy metals (as Pb)		0.001	<0.001	%
Insoluble matter		0.001	<0.001	%
Iron (Fe)		0.003	< 0.0003	%
Magnesium (Mg)		0.002	< 0.0001	%
Manganese (Mn)		0.5	< 0.05	ppm
Nitrate (NO3)		5	<5	ppm
Potassium (K)		0.005	< 0.0001	%
Reducing substances			Passes test	
Sodium (Na)		0.025	< 0.0001	%
Sulfate (SO4)		0.003	< 0.0003	%
Volatile acids (as acetic acid)		0.001	<0.001	%

Heather Sinn,  
 -----

Quality Control Manager  
 This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany  
 EMD Millipore Corporation  
 400 Summit Drive,  
 Burlington, MA 01803  
 U.S.A

**ID #: 12247**  
 Opened: \_\_\_\_\_  
 Phosphoric Acid - 61223  
**Expires: 10/18/2026**  
 Rec'd: 10/18/2021  
 Energy Laboratories, Inc. 2393 Salt Creek Hwy  
 Casper WY 82601-9601

# Type I Ultra-Low TOC Analytical Grade DI Systems

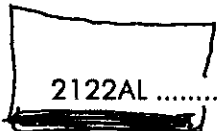
## General Description & Specifications



Model Number      General Description - Type I DI Systems

**2121AL** ..... Type I Ultra-Low TOC Analytical Grade DI System for operation on pretreated water (water that has been pretreated via reverse osmosis, distillation or deionization by a central or point-of-use pretreatment system, and contains less than 20 ppm of total dissolved solids).

Requires Purification Kit Number 2613M1L (not included in system price). Kit includes activated carbon prefilter capsule, high purity TOC reduction DI module, and final filter capsule.



**2122AL** ..... Type I Ultra-Low TOC Analytical Grade DI System for operation on ordinary tap water containing up to 170 ppm of TDS (total dissolved solids).

Requires Purification Kit Number 2613M2L (not included in system price). Kit includes activated carbon prefilter capsule, two high purity TOC reduction DI modules, and final filter capsule.

Upgradeability      Any of these systems can be field upgraded or modified to become any other Type I system.

Model Number      General Description - Combination Reverse Osmosis plus Type I DI Systems

**RODI-C-12AL** ..... Combination Reverse Osmosis plus Type I Ultra-low TOC Analytical Grade DI System.

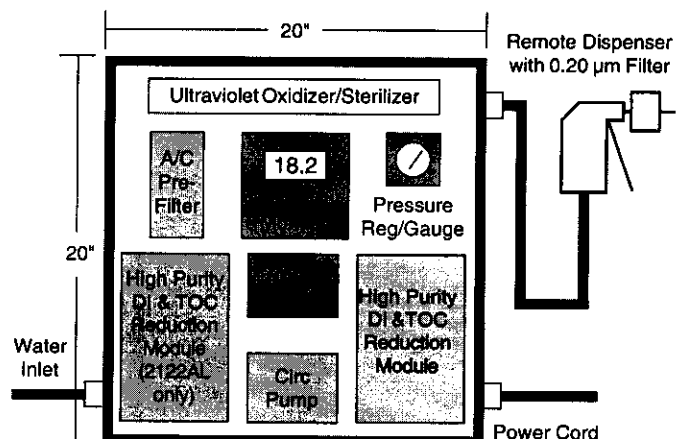
Requires Purification Kit Number 2613M1L-A (not included in system price). Kit includes high purity TOC reduction DI module, and a final filter capsule. See brochure RODI-C for details.

More information      For Basic Analytical Grade Systems, request brochure #: T1-A.  
 For Biological Grade Systems, request brochure #: T1-B.  
 For Ultra-Low TOC Biological Grade Systems, request brochure #: T1-BL.  
 For Combination Reverse Osmosis plus Type I DI Systems, request brochure #: RODI-C.  
 For Reverse Osmosis and/or Type II DI Systems, request brochure #: T2-RO.  
 For High Flow (8-12 Liters/minute) Systems, contact your sales person.

System and Purified Water Specifications

DI capacity 2121AL and RODI-C 12AL .....	*2,000
DI capacity 2122AL .....	*4,000
*(grains of ion exchange capacity as CaCO <sub>3</sub> )	
Resistivity .....	18.2 Megohm-cm
TOC .....	<5 PPB
Bacteria .....	<1 cfu/ml
Continuous flow rate .....	2-Liters/minute
Cabinet depth .....	12" (305 mm)
Cabinet width .....	20" (508 mm)
Cabinet height .....	20" (508 mm)
External power supply input .....	100-240 VAC, 50/60 Hz
Internal power ....	12 VDC @ 2.5 Amps from external supply
Minimum inlet pressure .....	35 PSIG (2.3 Bar)
Maximum inlet pressure .....	100 PSIG (6.7 Bar)
Shipping weight .....	40-55 lbs (18-25 kg)
Operating weight .....	55-70 lbs (25-32 kg)
Inlet connection .....	1/4" or 3/8" NPT

<b>ID #: 9960</b>	<b>ID #: 9959</b>
Opened: _____	Opened: _____
Solution-2000-I	Solution-2000-D
<b>Expires: 4/14/2018</b>	<b>Expires: 4/14/2018</b>
Rec'd: 9/21/2017	Rec'd: 9/21/2017
Energyl Laboratories, Inc. 2393 Salt Creek Hwy	Energyl Laboratories, Inc. 2393 Salt Creek Hwy
Casper WY 82602-0247	Casper WY 82602-0247



# AQUA SOLUTIONS

## Type I Ultra-Low TOC Analytical Grade DI Systems

### Features and Benefits

- ◆ Produces 18 Megohm-cm Type I water
- ◆ Ultra-Low trace organics - (TOC <5 PPB)
- ◆ Exceeds ASTM, CAP, CLSI & USP Specs
- ◆ Accepts 100-240 VAC, 50/60 Hz power
- ◆ System runs on 12 VDC internal power
- ◆ Certified by CSA for the US & Canada
- ◆ Can be bench, shelf or wall-mounted
- ◆ CE marked for export to Europe, Etc
- ◆ Remote dispenser included in price
- ◆ 2-Year warranty - (Most Countries)
- ◆ Meets current USP specifications
- ◆ User installable and serviceable
- ◆ 0.2 micron final filter capsule
- ◆ DI modules can be recycled
- ◆ Complete instrumentation
- ◆ Fully automatic operation
- ◆ Continuous recirculation
- ◆ Made in the USA



**AQUA SOLUTIONS, INC.**  
8 Old Burnt Mountain Road  
Jasper, GA 30143 USA  
Phones: 706-692-9200  
800-458-2021  
Fax: 706-692-9203  
E-mail: mail@AquaA.com  
Internet: www.AquaA.com

### Product Availability

**AQUA SOLUTIONS** Type I Ultra-Low TOC Analytical Grade DI Systems produce Type I reagent grade water that meets or exceeds ASTM, CAP, CLSI, and USP specifications.

These systems include a built-in, dual-wavelength ultraviolet (UV) oxidizer/sterilizer to reduce TOC to <5 PPB. The UV includes an LED display and audible alarms to monitor UV lamp performance.

They are recommended for laboratory applications requiring Type I water that contains little, if any, TOC (trace organic carbon).

*Chemical Applications* include AA, GC, HPLC, IC, ICP, IR, MS, heavy or trace metals, environmental testing, TOC, TOX, TCLP, VOC, electrochemistry, and toxicity testing, where ultra-low TOC Type I water is required.

*Biological Applications* include those that are sensitive to TOC, (where endotoxin/pyrogen levels are NOT critical).

**AQUA SOLUTIONS** Type I DI systems dispense purified water at the rate of 2-Liters/minute. Higher flow rate systems (8-12 Liters/minute) are available.

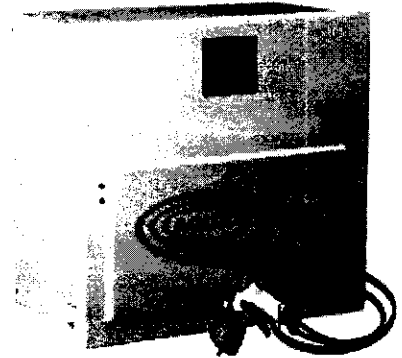
**AQUA SOLUTIONS** Ultra-Low TOC analytical grade systems are designed to operate on *ordinary tap water*, or water that has been pretreated via reverse osmosis, distillation, or deionization by a central or point-of-use system.

For those installations where the incoming tap water feed contains more than 170 ppm of TDS (total dissolved solids), and/or the average daily purified water usage exceeds 20 Liters/day, reverse osmosis (RO) pretreatment should be considered (see next paragraph).

**AQUA SOLUTIONS** Type I Ultra-Low TOC DI Systems can also be purchased with a *built-in 10 or 20 Liter/hour RO pretreatment system*, all in a single cabinet measuring just 20" (508 mm) wide by 20" (508 mm) high by 12" (305 mm) deep - see page 2 for details!

And, if more RO capacity is required to feed multiple systems, or other applications, individual **AQUA SOLUTIONS** RO systems are available in 10, 20, 30, and 60 Liter/hour and higher configurations.

**AQUA SOLUTIONS** Type I Ultra-Low TOC Systems offer many features and benefits, and higher capacities that are not found on many other systems. **And, they are very competitively priced!**



Product No.: 54100  
Product: Sodium peroxydisulfate, 98%  
Lot No.: Z30G002

Appearance	White crystals
Assay	99.2 %
Active oxygen	6.67 %
Ammonium persulfate	0.003 %
Sodium sulfate	0.75 %
Insolubles, aqueous	52 ppm
Iron	3 ppm
Moisture at 60°C	0.01 %

Retest date: December 14, 2030

Order our products online [alfa.com](http://alfa.com)

This document has been electronically generated and does not require a signature.

This is to certify that units of the lot number above were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.

ID #: 11981  
Opened: \_\_\_\_\_  
Sodium peroxydisulfate, 98% - Z30G002  
Expires: 12/14/2030  
Rec'd: 4/16/2021  
Energy Laboratories Inc. 2393 Salt Creek Hwy  
Casper WY 82601-6601

# Energy Laboratories, Inc.

# Standard LOG

Standard ID: TOC4\_ICAL\_220127  
Standard Name: TOC4 Calibration  
Date Prepared: 1/27/2022  
Date Expires: 9/28/2022  
Department: INORG  
Vendor:  
Lot Number:  
Balance ID:  
Type: Secondary  
BY: Nils T. Schenck  
Status: Open  
Comments: Calibration levels and concentrations per SOP 50-227-06

---

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Organic Carbon Standard-710920m	11940		mL	9/28/
Solution-2000-D	9959		mL	1/21/

**Final Volume:** 1000 mL

**Stock Source**

**Base Units**

**Amount Added**

**Analvtes**

**CAS**

Conc: **ug/mL**



▪ Certificate of Analysis ▪

A Waters Company

**Product:** 1000 mg/L Total Organic Carbon (TOC)  
**Catalog Number:** 978  
**Lot No.** 710920m  
**Starting Material:** Glucose (C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>)  
**Matrix:** 18 megohm deionized water and 0.5% (v/v) H<sub>2</sub>SO<sub>4</sub>  
**Density:** 1.0037 ± 0.0006 g/ml at 20.1 °C and 762 mm Hg  
**Verification Method:** UV Persulfate/Conductometric TOC  
**Certificate Issue Date:** November 2, 2020  
**Expiration Date:** September 28, 2022  
**Revision Number:** Original

CERTIFICATION

Parameter	Certified Value <sup>1</sup>	Uncertainty <sup>2</sup>	NIST Traceability	
			SRM Number <sup>3</sup>	Recovery %
Total Organic Carbon (TOC)	1000	2.49	84I	101

ID #: 11940

Opened: \_\_\_\_\_

Organic Carbon Standard-710920m

Expires: 9/28/2022

Rec'd: 3/17/2021

Energy Laboratories, Inc. 2393 Salt Creek Hwy

Casper WY 82601-9601



## Certificate of Conformity

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Whatman™

### Product Information

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**Product Number: 6753-2504**

**Product Name: Puradisc 25 Syringe Filter, 0.45 µm, nylon, 1000/pk**

**Lot Number/Serial Number: 16950886**

### Conformance & Quality systems statement

---

This is to certify that this product conforms to GE Healthcare Life Sciences specifications.

All products are manufactured via a Quality System certified to **BS EN ISO9001:2008** and tested in accordance with documented quality procedures and approved as a result of meeting the required specification

### Electronic signature

---

This document has been electronically produced and is valid without a signature.

**ID #: 11023**  
Opened: \_\_\_\_\_  
Puradisc 25 Syringe Filter-16950886  
**Expires: 8/6/2024**  
Rec'd: 8/6/2019  
Energy Laboratories, Inc. 2393 Salt Creek Hwy  
Casper WY 82601-9601

Version AA



imagination at work

[www.gelifesciences.com](http://www.gelifesciences.com)

**GE Healthcare UK Limited**  
Amersham Place Little Chalfont  
Buckinghamshire HP7 9NA UK

# Certificate of Analysis

**Organic Carbon Standard, 1000 ppm C**

**Lot Number:** 2111C03

**Product Number:** 1847

**Manufacture Date:** NOV 09, 2021

**Expiration Date:** OCT 2022

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Phosphoric Acid	7664-38-2	ACS
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

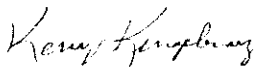
Test	Specification	Result
Appearance	Colorless liquid	Passed
Carbon (C)	995-1005 ppm	1000 ppm

Specification	Reference
Organic Carbon Stock Solution	APHA (5310 B)
Potassium Hydrogen Phthalate, Stock Solution	EPA (SW-846) (9060)
Potassium Hydrogen Phthalate, Stock Solution, 1000 mg Carbon/liter	EPA (415.1)
Organic Carbon Solution, Standard (1 mL = 1 mg C)	ASTM (D 2579)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1847-16	500 mL amber glass	12 months
1847-8	250 mL amber glass	12 months

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)



Kerry Kingsbury (11/09/2021)

Quality Control Supervisor

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

**ID #:** 12375

Opened: \_\_\_\_\_

Organic Carbon Standard-2111C03

**Expires:** 10/31/2022

**Rec'd:** 1/7/2022

Energy Laboratories, Inc. 2393 Salt Creek Hwy  
 Casper WY 82601-9601

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A DIVISION OF NORCO, INC.

### Calibration Gases & Equipment

## CERTIFICATE OF ANALYSIS

Norco, Inc  
Casper Warehouse  
3333 West Yellowstone Hwy  
Mills, WY 82644

Cust Number WH084  
Order Number 67085950  
P.O. Number N/A

Lot Number 1-182-304  
Part Number SPG TUHPNI  
Product Nitrogen, UHP  
Cylinder Size T  
Pressure 2640 psig @ 70°F

Date Analyzed 7/1/2021  
Expires 7-2024

Cylinder Number(s)  
TW04-730235  
T-1260  
061665  
TWC-759451  
300-4710337Y  
072367

Component	Reported Concentration	Requested Concentration	Analytical Method
Nitrogen	≥ 99.999%	≥ 99.999%	FTIR Zirconium Oxide Cell Electrocapacitance Cell
THC (as Methane)	< 0.5 ppm	< 0.5 ppm	
Oxygen	< 2.0 ppm	< 2.0 ppm	
Water	< 3.0 ppm	< 3.0 ppm	

**Storage:** Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Minor constituents tested with standards traceable to NIST by mass or comparison to SRM's (Standard Reference Materials). NIST Tracability Numbers are available upon request.

Approved:

Jeff Korn  
Lab Technician

Date Signed:

July 16, 2021

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ID #: 12104

Opened: \_\_\_\_\_

Nitrogen UHP - 182-304

Expires: 7/30/2024

Rec'd: 7/30/2021

Energy Laboratories, Inc. 2393 Salt Creek Hwy  
Casper WY 82601-9601