

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Client: Cardno - Hawaii
Address: 737 Bishop St., Ste. 3050
Honolulu, HI 96813
Attn: Benjamin Berridge

Work Order: WBA0800
Project: ADC Water Quality Monitoring
Reported: 2/19/2021 10:39

Case Narrative

<u>Laboratory ID</u>	<u>Sample Name</u>
WBA0800-01	W-2
WBA0800-02	W-3
WBA0800-03	U-2/WW-5
WBA0800-04	U-3/WW-4
WBA0800-05	D-2
WBA0800-06	D-3
WBA0800-07	D-4
WBA0800-08	D-5
WBA0800-09	D-6
WBA0800-10	D-7
WBA0800-11	D-8
WBA0800-12	DW-1/WW-1
WBA0800-13	DW-2
WBA0800-14	DW-3
WBA0800-15	WW-2
WBA0800-16	WW-3
WBA0800-17	WW-6
WBA0800-18	E-1
WBA0800-19	E-2
WBA0800-20	DW-1/WW-1 DUP
WBA0800-21	I-1
WBA0800-22	W-1
WBA0800-23	Trip Blanks

QA/QC Checks

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
Sample Holding Time Valid?	N	See Comments Section
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Comments	N	See Comments Section

1. Holding Time Requirements

The samples were received later than expected due to FedEx. The Pesticides by EPA 625 were extracted past holding time but they were run within holding time.

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2. Calibration Requirements

No problems encountered.

3. Surrogate Recovery Requirements

No problems encountered.

4. QC Sample (LCS/MS/MSD) Recovery Requirements

No problems encountered.

5. Method Blank Requirements

The method blanks were non-detect for all analytes. No problems encountered.

6. Internal Standard(s) Response Requirements

No problems encountered

7. Comments

I certify that this data package is in compliance with the terms and conditions of the contract.

Release of the data contained in this data package has been authorized by the Laboratory Manager or his or her designee.

Kathleen A. Sattler, Lab Manager

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Analytical Results Report

Sample Location: W-2
Lab/Sample Number: WBA0800-01 Collect Date: 01/25/21 07:35
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<0.1	mg/L	0.100	0.100	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.00006	mg/L	0.0000600	0.00100	2/5/21 11:34	TRC	EPA 200.8	
Mercury								
Mercury	0.0148	ug/L	0.00600	0.100	2/10/21 10:50	TRC	EPA 245.1	J
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/2/21 23:21	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	2/2/21 23:21	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/2/21 23:21	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/2/21 23:21	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	91.9%		50-150		2/2/21 23:21	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: W-3
Lab/Sample Number: WBA0800-02 Collect Date: 01/25/21 09:55
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<0.1	mg/L	0.100	0.100	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.00006	mg/L	0.0000600	0.00100	2/5/21 11:41	TRC	EPA 200.8	
Mercury								
Mercury	0.0302	ug/L	0.00600	0.100	2/10/21 10:52	TRC	EPA 245.1	J
Semivolatiles								
Diesel	0.442	mg/L	0.0520	0.0800	2/3/21 2:07	ARC	NWTPH-HCID	T10
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 2:07	ARC	NWTPH-HCID	
Lube Oil	0.785	mg/L	0.0460	0.0800	2/3/21 2:07	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 2:07	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	90.7%		50-150		2/3/21 2:07	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: U-2/WW-5
Lab/Sample Number: WBA0800-03 Collect Date: 01/25/21 08:45
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	5.67	mg/L	0.333	0.333	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000188	mg/L	0.0000600	0.00100	2/5/21 11:43	TRC	EPA 200.8	J
Mercury								
Mercury	0.0377	ug/L	0.00600	0.100	2/10/21 10:59	TRC	EPA 245.1	J
Semivolatiles								
Diesel	0.757	mg/L	0.0520	0.0800	2/3/21 3:57	ARC	NWTPH-HCID	T10
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 3:57	ARC	NWTPH-HCID	
Lube Oil	1.45	mg/L	0.0460	0.0800	2/3/21 3:57	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 3:57	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	95.1%		50-150		2/3/21 3:57	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: U-3/WW-4
Lab/Sample Number: WBA0800-04 Collect Date: 01/25/21 08:15
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	83.0	mg/L	0.500	0.500	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000649	mg/L	0.0000600	0.00100	2/5/21 11:45	TRC	EPA 200.8	J
Mercury								
Mercury	0.0527	ug/L	0.00600	0.100	2/10/21 11:01	TRC	EPA 245.1	J
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/3/21 4:52	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 4:52	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/3/21 4:52	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 4:52	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	95.3%		50-150		2/3/21 4:52	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: D-2
Lab/Sample Number: WBA0800-05 Collect Date: 01/25/21 07:57
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	6.10	mg/L	0.100	0.100	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.0131	mg/L	0.0000600	0.00100	2/5/21 11:48	TRC	EPA 200.8	
Mercury								
Mercury	0.0360	ug/L	0.00600	0.100	2/10/21 11:03	TRC	EPA 245.1	J
Semivolatiles								
Diesel	0.407	mg/L	0.0520	0.0800	2/3/21 5:48	ARC	NWTPH-HCID	T10
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 5:48	ARC	NWTPH-HCID	
Lube Oil	0.693	mg/L	0.0460	0.0800	2/3/21 5:48	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 5:48	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	92.2%		50-150		2/3/21 5:48	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: D-3
Lab/Sample Number: WBA0800-06 Collect Date: 01/25/21 09:12
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	11.0	mg/L	0.200	0.200	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00123	mg/L	0.0000600	0.00100	2/5/21 11:50	TRC	EPA 200.8	
Mercury								
Mercury	0.0300	ug/L	0.00600	0.100	2/10/21 11:06	TRC	EPA 245.1	J
Semivolatiles								
Diesel	0.488	mg/L	0.0520	0.0800	2/3/21 6:43	ARC	NWTPH-HCID	T10
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 6:43	ARC	NWTPH-HCID	
Lube Oil	1.05	mg/L	0.0460	0.0800	2/3/21 6:43	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 6:43	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	98.4%		50-150		2/3/21 6:43	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: D-4
Lab/Sample Number: WBA0800-07 Collect Date: 01/25/21 07:38
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	7.00	mg/L	0.200	0.200	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00142	mg/L	0.0000600	0.00100	2/5/21 11:52	TRC	EPA 200.8	
Mercury								
Mercury	0.0182	ug/L	0.00600	0.100	2/10/21 11:08	TRC	EPA 245.1	J
Semivolatiles								
Diesel	0.342	mg/L	0.0520	0.0800	2/3/21 7:39	ARC	NWTPH-HCID	T10
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 7:39	ARC	NWTPH-HCID	
Lube Oil	0.624	mg/L	0.0460	0.0800	2/3/21 7:39	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 7:39	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	82.7%		50-150		2/3/21 7:39	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: D-5
Lab/Sample Number: WBA0800-08 Collect Date: 01/25/21 09:20
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	4.14	mg/L	0.143	0.143	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00139	mg/L	0.0000600	0.00100	2/5/21 11:55	TRC	EPA 200.8	
Mercury								
Mercury	0.0103	ug/L	0.00600	0.100	2/10/21 11:10	TRC	EPA 245.1	J
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/3/21 8:35	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 8:35	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/3/21 8:35	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 8:35	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	94.2%		50-150		2/3/21 8:35	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: D-6
Lab/Sample Number: WBA0800-09 Collect Date: 01/25/21 10:20
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	4.33	mg/L	0.333	0.333	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00155	mg/L	0.0000600	0.00100	2/5/21 12:07	TRC	EPA 200.8	
Mercury								
Mercury	0.0141	ug/L	0.00600	0.100	2/10/21 11:12	TRC	EPA 245.1	J
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/3/21 9:31	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 9:31	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/3/21 9:31	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 9:31	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	90.4%		50-150		2/3/21 9:31	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: D-7
Lab/Sample Number: WBA0800-10 Collect Date: 01/25/21 09:55
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	15.0	mg/L	0.200	0.200	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000433	mg/L	0.0000600	0.00100	2/5/21 12:09	TRC	EPA 200.8	J
Mercury								
Mercury	0.0192	ug/L	0.00600	0.100	2/10/21 11:15	TRC	EPA 245.1	J
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/3/21 10:26	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 10:26	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/3/21 10:26	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 10:26	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	95.4%		50-150		2/3/21 10:26	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: D-8
Lab/Sample Number: WBA0800-11 Collect Date: 01/25/21 09:45
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	5.00	mg/L	0.250	0.250	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00399	mg/L	0.0000600	0.00100	2/5/21 12:12	TRC	EPA 200.8	
Mercury								
Mercury	<0.006	ug/L	0.00600	0.100	2/10/21 11:30	TRC	EPA 245.1	
Semivolatiles								
Diesel	0.298	mg/L	0.0520	0.0800	2/3/21 16:02	ARC	NWTPH-HCID	T10
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 16:02	ARC	NWTPH-HCID	
Lube Oil	0.449	mg/L	0.0460	0.0800	2/3/21 16:02	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 16:02	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	92.8%		50-150		2/3/21 16:02	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: DW-1/WW-1
Lab/Sample Number: WBA0800-12 Collect Date: 01/25/21 09:45
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	6.60	mg/L	0.200	0.200	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00180	mg/L	0.0000600	0.00100	2/5/21 12:14	TRC	EPA 200.8	
Mercury								
Mercury	0.0143	ug/L	0.00600	0.100	2/10/21 11:33	TRC	EPA 245.1	J
Semivolatiles								
Diesel	0.441	mg/L	0.0520	0.0800	2/3/21 16:58	ARC	NWTPH-HCID	T10
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 16:58	ARC	NWTPH-HCID	
Lube Oil	0.813	mg/L	0.0460	0.0800	2/3/21 16:58	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 16:58	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	95.4%		50-150		2/3/21 16:58	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: DW-2
Lab/Sample Number: WBA0800-13 Collect Date: 01/25/21 08:40
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	11.6	mg/L	0.200	0.200	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00125	mg/L	0.0000600	0.00100	2/5/21 12:21	TRC	EPA 200.8	
Mercury								
Mercury	0.00610	ug/L	0.00600	0.100	2/10/21 11:40	TRC	EPA 245.1	J
Semivolatiles								
Diesel	0.371	mg/L	0.0520	0.0800	2/3/21 17:53	ARC	NWTPH-HCID	T10
Gasoline	<0.160	mg/L	0.160	0.400	2/3/21 17:53	ARC	NWTPH-HCID	
Lube Oil	0.685	mg/L	0.0460	0.0800	2/3/21 17:53	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 17:53	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	96.5%		50-150		2/3/21 17:53	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: DW-3
Lab/Sample Number: WBA0800-14 Collect Date: 01/25/21 09:00
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	9.60	mg/L	0.200	0.200	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000997	mg/L	0.0000600	0.00100	2/5/21 12:23	TRC	EPA 200.8	J
Mercury								
Mercury	0.0221	ug/L	0.00600	0.100	2/10/21 11:42	TRC	EPA 245.1	J
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/3/21 18:48	ARC	NWTPH-HCID	
Gasoline	0.304	mg/L	0.160	0.400	2/3/21 18:48	ARC	NWTPH-HCID	J
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/3/21 18:48	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 18:48	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	96.2%		50-150		2/3/21 18:48	ARC	NWTPH-HCID	

Sample Comment: Non-target analyte in gasoline range.

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Analytical Results Report

(Continued)

Sample Location: WW-2
Lab/Sample Number: WBA0800-15 Collect Date: 01/25/21 08:20
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	29.0	mg/L	0.500	0.500	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00294	mg/L	0.0000600	0.00100	2/5/21 12:26	TRC	EPA 200.8	
Mercury								
Mercury	0.0433	ug/L	0.00600	0.100	2/10/21 11:45	TRC	EPA 245.1	J
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/3/21 19:43	ARC	NWTPH-HCID	
Gasoline	0.559	mg/L	0.160	0.400	2/3/21 19:43	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/3/21 19:43	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 19:43	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	98.3%		50-150		2/3/21 19:43	ARC	NWTPH-HCID	

Sample Comment: Non-target analyte in gasoline range.

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Analytical Results Report

(Continued)

Sample Location: WW-3
Lab/Sample Number: WBA0800-16 Collect Date: 01/25/21 08:45
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	7.80	mg/L	0.200	0.200	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00149	mg/L	0.0000600	0.00100	2/5/21 12:28	TRC	EPA 200.8	
Mercury								
Mercury	0.0194	ug/L	0.00600	0.100	2/10/21 11:47	TRC	EPA 245.1	J
Semivolatiles								
AMPA	<2	ug/L	2.00	10.0	2/5/21 9:50	MER	EPA 547	*
Glyphosate	<1	ug/L	1.00	5.00	2/5/21 9:50	MER	EPA 547	*
Atrazine	<0.05	ug/L	0.0500	0.100	2/10/21 21:53	TGT	EPA 625.1	* H4
Chlorpyrifos	<0.05	ug/L	0.0500	0.100	2/10/21 21:53	TGT	EPA 625.1	* H4
Metolachlor	<0.05	ug/L	0.0500	0.100	2/10/21 21:53	TGT	EPA 625.1	* H4
Surrogate: Terphenyl-d14	91.4%		25-135		2/10/21 21:53	TGT	EPA 625.1	
Diesel	<0.052	mg/L	0.0520	0.0800	2/3/21 20:38	ARC	NWTPH-HCID	
Gasoline	0.360	mg/L	0.160	0.400	2/3/21 20:38	ARC	NWTPH-HCID	J
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/3/21 20:38	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 20:38	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	90.7%		50-150		2/3/21 20:38	ARC	NWTPH-HCID	
Sample Comment:	Non-target analyte in gasoline range.							

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Analytical Results Report

(Continued)

Sample Location: WW-6
Lab/Sample Number: WBA0800-17 Collect Date: 01/25/21 10:10
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<0.1	mg/L	0.100	0.100	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.00006	mg/L	0.0000600	0.00100	2/5/21 12:40	TRC	EPA 200.8	
Mercury								
Mercury	0.0281	ug/L	0.00600	0.100	2/10/21 11:49	TRC	EPA 245.1	J
Semivolatiles								
Diesel	0.366	mg/L	0.0520	0.0800	2/3/21 21:33	ARC	NWTPH-HCID	T10
Gasoline	0.371	mg/L	0.160	0.400	2/3/21 21:33	ARC	NWTPH-HCID	J
Lube Oil	0.605	mg/L	0.0460	0.0800	2/3/21 21:33	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 21:33	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	86.4%		50-150		2/3/21 21:33	ARC	NWTPH-HCID	

Sample Comment: Non-target analyte in gasoline range.

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Analytical Results Report (Continued)

Sample Location: E-1
Lab/Sample Number: WBA0800-18 Collect Date: 01/25/21 09:00
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	83.0	mg/L	1.00	1.00	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00193	mg/L	0.0000600	0.00100	2/5/21 12:43	TRC	EPA 200.8	
Mercury								
Mercury	<0.006	ug/L	0.00600	0.100	2/12/21 15:41	TRC	EPA 245.1	
Semivolatiles								
AMPA	<2	ug/L	2.00	10.0	2/5/21 9:57	MER	EPA 547	*
Glyphosate	<1	ug/L	1.00	5.00	2/5/21 9:57	MER	EPA 547	*
Atrazine	<0.05	ug/L	0.0500	0.100	2/10/21 22:20	TGT	EPA 625.1	* H4
Chlorpyrifos	<0.05	ug/L	0.0500	0.100	2/10/21 22:20	TGT	EPA 625.1	* H4
Metolachlor	<0.05	ug/L	0.0500	0.100	2/10/21 22:20	TGT	EPA 625.1	* H4
Surrogate: Terphenyl-d14	94.8%		25-135		2/10/21 22:20	TGT	EPA 625.1	
Diesel	0.391	mg/L	0.0520	0.0800	2/3/21 22:28	ARC	NWTPH-HCID	T10
Gasoline	0.401	mg/L	0.160	0.400	2/3/21 22:28	ARC	NWTPH-HCID	
Lube Oil	0.684	mg/L	0.0460	0.0800	2/3/21 22:28	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 22:28	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	87.9%		50-150		2/3/21 22:28	ARC	NWTPH-HCID	
Sample Comment: Non-target analyte in gasoline range.								

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Analytical Results Report

(Continued)

Sample Location: E-2
Lab/Sample Number: WBA0800-19 Collect Date: 01/25/21 08:15
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	10.2	mg/L	0.200	0.200	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.0125	mg/L	0.0000600	0.00100	2/5/21 12:45	TRC	EPA 200.8	
Mercury								
Mercury	<0.006	ug/L	0.00600	0.100	2/12/21 15:47	TRC	EPA 245.1	
Semivolatiles								
AMPA	<2	ug/L	2.00	10.0	2/5/21 10:04	MER	EPA 547	*
Glyphosate	<1	ug/L	1.00	5.00	2/5/21 10:04	MER	EPA 547	*
Atrazine	0.0900	ug/L	0.0500	0.100	2/10/21 22:46	TGT	EPA 625.1	* H4, J
Chlorpyrifos	<0.05	ug/L	0.0500	0.100	2/10/21 22:46	TGT	EPA 625.1	* H4
Metolachlor	<0.05	ug/L	0.0500	0.100	2/10/21 22:46	TGT	EPA 625.1	* H4
Surrogate: Terphenyl-d14	86.0%		25-135		2/10/21 22:46	TGT	EPA 625.1	
Diesel	0.523	mg/L	0.0520	0.0800	2/3/21 23:23	ARC	NWTPH-HCID	T10
Gasoline	0.331	mg/L	0.160	0.400	2/3/21 23:23	ARC	NWTPH-HCID	J
Lube Oil	0.872	mg/L	0.0460	0.0800	2/3/21 23:23	ARC	NWTPH-HCID	T10
Mineral Oil	<0.160	mg/L	0.160	0.400	2/3/21 23:23	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	94.0%		50-150		2/3/21 23:23	ARC	NWTPH-HCID	
Sample Comment:	Non-target analyte in gasoline range.							

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Analytical Results Report

(Continued)

Sample Location: DW-1/WW-1 DUP
Lab/Sample Number: WBA0800-20 Collect Date: 01/25/21 09:45
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	8.14	mg/L	0.143	0.143	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00199	mg/L	0.0000600	0.00100	2/5/21 12:47	TRC	EPA 200.8	
Mercury								
Mercury	0.00760	ug/L	0.00600	0.100	2/12/21 15:49	TRC	EPA 245.1	J
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/4/21 16:00	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	2/4/21 16:00	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/4/21 16:00	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/4/21 16:00	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	93.5%		50-150		2/4/21 16:00	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: I-1
Lab/Sample Number: WBA0800-21 Collect Date: 01/25/21 09:50
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	17.8	mg/L	0.200	0.200	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.00006	mg/L	0.0000600	0.00100	2/5/21 12:50	TRC	EPA 200.8	
Mercury								
Mercury	0.0204	ug/L	0.00600	0.100	2/12/21 15:51	TRC	EPA 245.1	J
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/4/21 17:51	ARC	NWTPH-HCID	
Gasoline	0.330	mg/L	0.160	0.400	2/4/21 17:51	ARC	NWTPH-HCID	J
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/4/21 17:51	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/4/21 17:51	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	101%		50-150		2/4/21 17:51	ARC	NWTPH-HCID	

Sample Comment: Non-target analyte in gasoline range.

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Analytical Results Report (Continued)

Sample Location: W-1
Lab/Sample Number: WBA0800-22 Collect Date: 01/25/21 07:20
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<0.1	mg/L	0.100	0.100	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000111	mg/L	0.0000600	0.00100	2/5/21 12:52	TRC	EPA 200.8	J
Mercury								
Mercury	<0.006	ug/L	0.00600	0.100	2/12/21 15:54	TRC	EPA 245.1	
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/4/21 18:46	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	2/4/21 18:46	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/4/21 18:46	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/4/21 18:46	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	95.9%		50-150		2/4/21 18:46	ARC	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: Trip Blanks
Lab/Sample Number: WBA0800-23 Collect Date: 01/25/21 09:45
Date Received: 01/29/21 10:30 Collected By: Benjamin Berridge
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<0.1	mg/L	0.100	0.100	1/29/21 14:15	BAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00233	mg/L	0.0000600	0.00100	2/5/21 12:54	TRC	EPA 200.8	
Mercury								
Mercury	<0.006	ug/L	0.00600	0.100	2/12/21 15:56	TRC	EPA 245.1	
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	2/4/21 19:41	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	2/4/21 19:41	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	2/4/21 19:41	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	2/4/21 19:41	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	98.0%		50-150		2/4/21 19:41	ARC	NWTPH-HCID	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time.
J	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
T10	Non-target analyte in diesel and lube oil range, tentatively identified as heavy fuel oil.
PQL	Practical Quantitation Limit
ND	Not Detected
MDL	Method Detection Limit
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585
W FLDOH	Florida Department of Health (NELAC)	Anatek-Spokane, WA	E871099

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBB0043 - W Filtration										
Blank (BBB0043-BLK1)					Prepared & Analyzed: 1/29/2021					
TSS	ND		1.00	mg/L						
Blank (BBB0043-BLK2)					Prepared & Analyzed: 1/29/2021					
TSS	ND		1.00	mg/L						
Blank (BBB0043-BLK3)					Prepared & Analyzed: 1/29/2021					
TSS	ND		1.00	mg/L						
Blank (BBB0043-BLK4)					Prepared & Analyzed: 1/29/2021					
TSS	ND		1.00	mg/L						
Blank (BBB0043-BLK5)					Prepared & Analyzed: 1/29/2021					
TSS	ND		1.00	mg/L						
Blank (BBB0043-BLK6)					Prepared & Analyzed: 1/29/2021					
TSS	ND		1.00	mg/L						
LCS (BBB0043-BS1)					Prepared & Analyzed: 1/29/2021					
TSS	93.0			mg/L	100		93.0	90-110		
LCS (BBB0043-BS2)					Prepared & Analyzed: 1/29/2021					
TSS	93.0			mg/L	100		93.0	90-110		
LCS (BBB0043-BS3)					Prepared & Analyzed: 1/29/2021					
TSS	95.0			mg/L	100		95.0	90-110		
LCS Dup (BBB0043-BSD1)					Prepared & Analyzed: 1/29/2021					
TSS	93.0			mg/L	100		93.0	90-110	0.00	10

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBB0043 - W Filtration (Continued)										
LCS Dup (BBB0043-BSD2)					Prepared & Analyzed: 1/29/2021					
TSS	93.0			mg/L	100		93.0	90-110	0.00	10
LCS Dup (BBB0043-BSD3)					Prepared & Analyzed: 1/29/2021					
TSS	95.0			mg/L	100		95.0	90-110	0.00	10
Duplicate (BBB0043-DUP1)					Prepared & Analyzed: 1/29/2021					
TSS	36.0		1.00	mg/L		37.0			2.74	20
Duplicate (BBB0043-DUP3)					Prepared & Analyzed: 1/29/2021					
TSS	81.0		1.00	mg/L		83.0			2.44	20
Matrix Spike (BBB0043-MS1)					Prepared & Analyzed: 1/29/2021					
TSS	98.0		2.00	mg/L	100	11.0	87.0	80-120		
Matrix Spike (BBB0043-MS2)					Prepared & Analyzed: 1/29/2021					
TSS	114		2.00	mg/L	100	11.0	103	80-120		
Matrix Spike (BBB0043-MS3)					Prepared & Analyzed: 1/29/2021					
TSS	188		2.00	mg/L	100	83.0	105	80-120		
Matrix Spike Dup (BBB0043-MSD1)					Prepared & Analyzed: 1/29/2021					
TSS	104		2.00	mg/L	100	11.0	93.0	80-120	5.94	20
Matrix Spike Dup (BBB0043-MSD2)					Prepared & Analyzed: 1/29/2021					
TSS	108		2.00	mg/L	100	11.0	97.0	80-120	5.41	20
Matrix Spike Dup (BBB0043-MSD3)					Prepared & Analyzed: 1/29/2021					
TSS	184		2.00	mg/L	100	83.0	101	80-120	2.15	20

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBB0124 - W 3010 Digest										
Blank (BBB0124-BLK1)					Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	ND		0.00100	mg/L						
Blank (BBB0124-BLK2)					Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	ND		0.00100	mg/L						
LCS (BBB0124-BS1)					Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	0.0499		0.00100	mg/L	0.0500		99.8	85-115		
LCS (BBB0124-BS2)					Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	0.0509		0.00100	mg/L	0.0500		102	85-115		
Matrix Spike (BBB0124-MS1)					Prepared: 2/4/2021 Analyzed: 2/5/2021					
			Source: WBA0800-01							

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Quality Control Data (Continued)

Metals by ICP-MS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBB0124 - W 3010 Digest (Continued)										
Matrix Spike (BBB0124-MS1)		Source: WBA0800-01			Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	0.0497		0.00100	mg/L	0.0500	<0.00006	99.4	70-130		
Matrix Spike (BBB0124-MS2)		Source: WBA0800-12			Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	0.0511		0.00100	mg/L	0.0500	0.00180	98.6	70-130		
Matrix Spike (BBB0124-MS3)		Source: WBA0800-23			Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	0.0488		0.00100	mg/L	0.0500	0.00233	92.9	70-130		
Matrix Spike Dup (BBB0124-MSD1)		Source: WBA0800-01			Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	0.0498		0.00100	mg/L	0.0500	<0.00006	99.6	70-130	0.159	20
Matrix Spike Dup (BBB0124-MSD2)		Source: WBA0800-12			Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	0.0527		0.00100	mg/L	0.0500	0.00180	102	70-130	3.16	20
Matrix Spike Dup (BBB0124-MSD3)		Source: WBA0800-23			Prepared: 2/4/2021 Analyzed: 2/5/2021					
Arsenic	0.0503		0.00100	mg/L	0.0500	0.00233	96.0	70-130	3.09	20

Quality Control Data (Continued)

Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBB0202 - W 245.1 Digest										
Blank (BBB0202-BLK1)		Prepared: 2/8/2021 Analyzed: 2/10/2021								
Mercury	ND		0.100	ug/L						
Blank (BBB0202-BLK2)		Prepared: 2/8/2021 Analyzed: 2/10/2021								
Mercury	ND		0.100	ug/L						
LCS (BBB0202-BS1)		Prepared: 2/8/2021 Analyzed: 2/10/2021								
Mercury	1.97		0.100	ug/L	2.00		98.6	85-115		
LCS (BBB0202-BS2)		Prepared: 2/8/2021 Analyzed: 2/10/2021								
Mercury	1.85		0.100	ug/L	2.00		92.4	85-115		
Matrix Spike (BBB0202-MS1)		Source: WBA0800-02			Prepared: 2/8/2021 Analyzed: 2/10/2021					
Mercury	2.01		0.100	ug/L	2.00	0.0302	99.1	70-130		
Matrix Spike (BBB0202-MS2)		Source: WBA0800-12			Prepared: 2/8/2021 Analyzed: 2/10/2021					
Mercury	1.89		0.100	ug/L	2.00	0.0143	93.9	70-130		
Matrix Spike (BBB0202-MS3)		Source: WBA0800-17			Prepared: 2/8/2021 Analyzed: 2/10/2021					
Mercury	2.16		0.100	ug/L	2.00	0.0281	107	70-130		
Matrix Spike Dup (BBB0202-MSD1)		Source: WBA0800-02			Prepared: 2/8/2021 Analyzed: 2/10/2021					
Mercury	1.97		0.100	ug/L	2.00	0.0302	96.8	70-130	2.26	20
Matrix Spike Dup (BBB0202-MSD2)		Source: WBA0800-12			Prepared: 2/8/2021 Analyzed: 2/10/2021					

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Quality Control Data (Continued)

Mercury (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBB0202 - W 245.1 Digest (Continued)										
Matrix Spike Dup (BBB0202-MSD2)			Source: WBA0800-12		Prepared: 2/8/2021 Analyzed: 2/10/2021					
Mercury	1.84		0.100	ug/L	2.00	0.0143	91.4	70-130	2.62	20
Matrix Spike Dup (BBB0202-MSD3)			Source: WBA0800-17		Prepared: 2/8/2021 Analyzed: 2/10/2021					
Mercury	2.11		0.100	ug/L	2.00	0.0281	104	70-130	2.20	20

Quality Control Data (Continued)

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBA0792 - W TPH-Dx										
Blank (BBA0792-BLK1)			Prepared & Analyzed: 2/2/2021							
Lube Oil	ND		0.0800	mg/L						
Mineral Oil	ND		0.400	mg/L						
Gasoline	ND		0.400	mg/L						
Diesel	ND		0.0800	mg/L						
<i>Surrogate: n-Hexacosane</i>			48.8	mg/L	50.1		97.3	50-150		
LCS (BBA0792-BS1)										
			Prepared & Analyzed: 2/2/2021							
Diesel	0.783		0.0800	mg/L	1.00		77.9	0-200		
<i>Surrogate: n-Hexacosane</i>			44.6	mg/L	50.1		88.9	50-150		
Matrix Spike (BBA0792-MS1)			Source: WBA0800-01		Prepared: 2/2/2021 Analyzed: 2/3/2021					
Diesel	0.721		0.0800	mg/L	1.00	<0.052	71.7	0-200		
<i>Surrogate: n-Hexacosane</i>			49.7	mg/L	50.1		99.3	50-150		
Matrix Spike Dup (BBA0792-MSD1)			Source: WBA0800-01		Prepared: 2/2/2021 Analyzed: 2/3/2021					
Diesel	0.717		0.0800	mg/L	1.00	<0.052	71.3	0-200	0.529	200
<i>Surrogate: n-Hexacosane</i>			48.5	mg/L	50.1		96.7	50-150		

Batch: BBB0038 - SVOC Water

Blank (BBB0038-BLK1)			Prepared: 2/1/2021 Analyzed: 2/10/2021							
Metolachlor	ND		0.100	ug/L						
Chlorpyrifos	ND		0.100	ug/L						
Atrazine	ND		0.100	ug/L						
<i>Surrogate: Terphenyl-d14</i>			25.3	ug/L	25.8		98.4	25-135		
LCS (BBB0038-BS1)										
			Prepared: 2/1/2021 Analyzed: 2/10/2021							
Atrazine	2.78		0.100	ug/L	2.50		111	60-125		
Chlorpyrifos	2.72		0.100	ug/L	2.50		109	50-125		
Metolachlor	2.81		0.100	ug/L	2.50		112	60-125		
<i>Surrogate: Terphenyl-d14</i>			32.2	ug/L	25.8		125	25-135		

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Quality Control Data (Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BBB0038 - SVOC Water (Continued)

LCS Dup (BBB0038-BSD1)

Prepared: 2/1/2021 Analyzed: 2/10/2021

Chlorpyrifos	2.70		0.100	ug/L	2.50		108	50-125	0.738	20
Metolachlor	2.82		0.100	ug/L	2.50		113	60-125	0.355	20
Atrazine	2.79		0.100	ug/L	2.50		112	60-125	0.359	20
Surrogate: Terphenyl-d14			22.1	ug/L	25.8		85.9	25-135		

Batch: BBB0089 - W TPH-Dx

Blank (BBB0089-BLK1)

Prepared & Analyzed: 2/4/2021

Lube Oil	ND		0.0800	mg/L						
Mineral Oil	ND		0.400	mg/L						
Gasoline	ND		0.400	mg/L						
Diesel	ND		0.0800	mg/L						
Surrogate: n-Hexacosane			49.9	mg/L	50.1		99.6	50-150		

LCS (BBB0089-BS1)

Prepared & Analyzed: 2/4/2021

Diesel	0.796		0.0800	mg/L	1.00		79.2	0-200		
Surrogate: n-Hexacosane			49.6	mg/L	50.1		99.0	50-150		

Duplicate (BBB0089-DUP1)

Source: WBA0800-20

Prepared & Analyzed: 2/4/2021

Lube Oil	ND		0.0800	mg/L		<0.046				200
Mineral Oil	ND		0.400	mg/L		<0.160				200
Gasoline	ND		0.400	mg/L		<0.160				200
Diesel	ND		0.0800	mg/L		<0.052				200
Surrogate: n-Hexacosane			44.2	mg/L	50.1		88.3	50-150		

Batch: BBB0147 - Glyphosate

Blank (BBB0147-BLK1)

Prepared: 2/4/2021 Analyzed: 2/5/2021

Glyphosate	ND		5.00	ug/L						
AMPA	ND		10.0	ug/L						

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Quality Control Data (Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BBB0147 - Glyphosate (Continued)

LCS (BBB0147-BS1)

Prepared: 2/4/2021 Analyzed: 2/5/2021

Glyphosate	50.6		5.00	ug/L	50.0		101	70-130		
AMPA	99.7		10.0	ug/L	100		99.7	70-130		

WBA0800



Due: 02/12/21



Chain of Custody Record

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Turn Arot

 Please refer to our normal turn around times at:
<http://www.anateklabs.com/services/guidelines/reporting.asp>

☒ Normal
☐ Next Day*
☐ 2nd Day*
☐ Other*

*All rush order requests must be prior approved.

☐ Phone
☐ Mail
☐ Fax
☒ Email

Company Name: **Cardno-GS**
 Address: **737 Bishop St Suite 3050**
 City: **Honolulu** State: **HI** Zip: **96813**
 Phone: **(808) 476-0067**
 Fax:

Project Manager: **Benjamin Berridge**
 Project Name & #: **ADC Water Quality Monitoring**
 Email Address: **benjamin.berridge@cardno-gs.com**
 Purchase Order #:

Sampler Name & phone: **Ben Berridge**

Provide Sample Description

List Analyses Requested

Note Special Instructions/Comments

Ag. Pitch Samples

**Please do not conduct TPH GRO analysis until Cardno confirms it should be run.

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	TSS EPA 180.2	TPH HClID - SW 846 MOD 8015	**TPH GRO SW846/8015	Arsenic EPA 200.8	Mercury EPA 245.1								
1	W-2	1-25-21 / 07:35	W	5		x	x		x	x								
2	W-3	1-25-21 / 09:55	W	5		x	x		x	x								
3	U-2/WW-5	1-25-21 / 10:45	W	5		x	x		x	x								
4	U-3/WW-4	1-25-21 / 08:15	W	5		x	x		x	x								
5	D-2	1-25-21 / 07:57	W	5		x	x		x	x								
6	D-3	1-25-21 / 09:12	W	5		x	x		x	x								
7	D-4	1-25-21 / 07:38	W	5		x	x		x	x								
8	D-5	1-25-21 / 09:20	W	5		x	x		x	x								
9	D-6	1-25-21 / 10:20	W	5		x	x		x	x								
10	D-7	1-25-21 / 09:55	W	5		x	x		x	x								
11	D-8	1-25-21 / 09:45	W	5		x	x		x	x								
		1-25-21 / 09:45	W	5														

Inspection Checklist

Received Intact? ☒ Y ☐ N
 Labels & Chains Agree? ☒ Y ☐ N
 Containers Sealed? ☒ Y ☐ N
 VOC Head Space? ☒ Y ☐ N

	Printed Name	Signature	Company	Date	Time
Relinquished by	Ben Berridge	<i>[Signature]</i>	Cardno	1-26-21	14:00
Received by	Joseph Pagan	<i>[Signature]</i>	Anatek	1/29/21	10:30
Relinquished by					
Received by					
Relinquished by					
Received by					

 Temperature (°C): **4.4 / 4.2** [#] **121**

Preservative:

Date & Time: **1030 1/29/21**

Inspected By:

FedX/4/1

PREPARATION BENCH SHEET

Organics

Print Date/Time: 02/17/2021 8:40 am

BBB0147

Matrix: Water

Prepared using: SVOC - Glyphosate

Analyses		Spiking Solution(s)				Surrogate Solution(s)			
Glyphosate		2100416 Gly/AMPA 25/50 ppm							
Lab Number	Sample and Source ID	Date Due	Extract by	Prepared	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
BBB0147-BLK1	Blank			2/4/2021 2:37:00PM	10	10			
BBB0147-BS1	LCS			2/4/2021 2:37:00PM	10	10	20		
WBA0800-16	WW-3	02/10/2021	02/08/2021	2/4/2021 2:37:00PM	10	10			
WBA0800-18	E-1	02/10/2021	02/08/2021	2/4/2021 2:37:00PM	10	10			
WBA0800-19	E-2	02/10/2021	02/08/2021	2/4/2021 2:37:00PM	10	10			

Reagents		
Standard	Description	LotNum

25/21

Analyst:

Date

Run Date:

Date

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
1	250/500 ppb gly	Standard	2/5/2021 8:50:0	020521_gly	1.00	Glyphosate	1.17e+006	250.	2.68e+005	248.	99.4
2	250/500 ppb gly	Standard	2/5/2021 8:50:0	020521_gly	1.00	Glyphosate1	4.24e+005	250.	2.68e+005	250.	99.9
3	250/500 ppb gly	Standard	2/5/2021 8:50:0	020521_gly	1.00	AMPA	1.04e+006	500.	2.68e+005	501.	100.
4	250/500 ppb gly	Standard	2/5/2021 8:50:0	020521_gly	1.00	AMPA1	3.84e+005	500.	2.68e+005	501.	100.
5	125/250 ppb gly	Standard	2/5/2021 8:56:4	020521_gly	1.00	Glyphosate	7.17e+005	125.	2.88e+005	128.	103.
6	125/250 ppb gly	Standard	2/5/2021 8:56:4	020521_gly	1.00	Glyphosate1	2.51e+005	125.	2.88e+005	126.	101.
7	125/250 ppb gly	Standard	2/5/2021 8:56:4	020521_gly	1.00	AMPA	5.70e+005	250.	2.88e+005	248.	99.4
8	125/250 ppb gly	Standard	2/5/2021 8:56:4	020521_gly	1.00	AMPA1	2.03e+005	250.	2.88e+005	247.	98.7
9	50/100 ppb gly a	Standard	2/5/2021 9:03:3	020521_gly	1.00	Glyphosate	2.92e+005	50.0	2.87e+005	48.4	96.8
10	50/100 ppb gly a	Standard	2/5/2021 9:03:3	020521_gly	1.00	Glyphosate1	1.05e+005	50.0	2.87e+005	48.9	97.8
11	50/100 ppb gly a	Standard	2/5/2021 9:03:3	020521_gly	1.00	AMPA	2.35e+005	100.	2.87e+005	98.8	98.8
12	50/100 ppb gly a	Standard	2/5/2021 9:03:3	020521_gly	1.00	AMPA1	8.47e+004	100.	2.87e+005	100.	100.
13	25/50 ppb gly a	Standard	2/5/2021 9:10:1	020521_gly	1.00	Glyphosate	1.35e+005	25.0	2.57e+005	23.7	94.6
14	25/50 ppb gly a	Standard	2/5/2021 9:10:1	020521_gly	1.00	Glyphosate1	5.10e+004	25.0	2.57e+005	24.9	99.7
15	25/50 ppb gly a	Standard	2/5/2021 9:10:1	020521_gly	1.00	AMPA	1.13e+005	50.0	2.57e+005	50.8	102.
16	25/50 ppb gly a	Standard	2/5/2021 9:10:1	020521_gly	1.00	AMPA1	3.99e+004	50.0	2.57e+005	49.6	99.2
17	12.5/25 ppb gly	Standard	2/5/2021 9:17:0	020521_gly	1.00	Glyphosate	8.40e+004	12.5	2.60e+005	13.8	110.
18	12.5/25 ppb gly	Standard	2/5/2021 9:17:0	020521_gly	1.00	Glyphosate1	3.03e+004	12.5	2.60e+005	13.5	108.
19	12.5/25 ppb gly	Standard	2/5/2021 9:17:0	020521_gly	1.00	AMPA	6.59e+004	25.0	2.60e+005	27.1	108.
20	12.5/25 ppb gly	Standard	2/5/2021 9:17:0	020521_gly	1.00	AMPA1	2.55e+004	25.0	2.60e+005	28.9	116.
21	6.25/12.5 ppb gl	Standard	2/5/2021 9:23:4	020521_gly	1.00	Glyphosate	4.69e+004	6.25	2.91e+005	6.00	96.1
22	6.25/12.5 ppb gl	Standard	2/5/2021 9:23:4	020521_gly	1.00	Glyphosate1	1.79e+004	6.25	2.91e+005	5.88	94.1
23	6.25/12.5 ppb gl	Standard	2/5/2021 9:23:4	020521_gly	1.00	AMPA	3.76e+004	12.5	2.91e+005	11.5	91.7
24	6.25/12.5 ppb gl	Standard	2/5/2021 9:23:4	020521_gly	1.00	AMPA1	1.40e+004	12.5	2.91e+005	10.8	86.2
25	RINSE	Quality Cont	2/5/2021 9:30:2	020521_gly	1.00	Glyphosate	0.00e+000	0.00	2.90e+005	No Peak	N/A
26	RINSE	Quality Cont	2/5/2021 9:30:2	020521_gly	1.00	Glyphosate1	0.00e+000	0.00	2.90e+005	No Peak	N/A
27	RINSE	Quality Cont	2/5/2021 9:30:2	020521_gly	1.00	AMPA	0.00e+000	0.00	2.90e+005	No Peak	N/A
28	RINSE	Quality Cont	2/5/2021 9:30:2	020521_gly	1.00	AMPA1	0.00e+000	0.00	2.90e+005	No Peak	N/A
29	BBB0147-BLK1	Quality Cont	2/5/2021 9:37:0	020521_gly	1.00	Glyphosate	0.00e+000	0.00	2.78e+005	No Peak	N/A
30	BBB0147-BLK1	Quality Cont	2/5/2021 9:37:0	020521_gly	1.00	Glyphosate1	0.00e+000	0.00	2.78e+005	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
31	BBB0147-BLK1	Quality Cont	2/5/2021 9:37:0	020521_gly	1.00	AMPA	0.00e+000	0.00	2.78e+005	No Peak	N/A
32	BBB0147-BLK1	Quality Cont	2/5/2021 9:37:0	020521_gly	1.00	AMPA1	0.00e+000	0.00	2.78e+005	No Peak	N/A
33	BBB0147-BS1	Quality Cont	2/5/2021 9:43:5	020521_gly	1.00	Glyphosate	2.56e+005	50.0	2.41e+005	50.6	101.
34	BBB0147-BS1	Quality Cont	2/5/2021 9:43:5	020521_gly	1.00	Glyphosate1	9.61e+004	50.0	2.41e+005	53.5	107.
35	BBB0147-BS1	Quality Cont	2/5/2021 9:43:5	020521_gly	1.00	AMPA	1.99e+005	100.	2.41e+005	99.7	99.7
36	BBB0147-BS1	Quality Cont	2/5/2021 9:43:5	020521_gly	1.00	AMPA1	7.22e+004	100.	2.41e+005	102.	102.
37	WBA0800-16	Quality Cont	2/5/2021 9:50:3	020521_gly	1.00	Glyphosate	0.00e+000	0.00	9.07e+004	No Peak	N/A
38	WBA0800-16	Quality Cont	2/5/2021 9:50:3	020521_gly	1.00	Glyphosate1	0.00e+000	0.00	9.07e+004	No Peak	N/A
39	WBA0800-16	Quality Cont	2/5/2021 9:50:3	020521_gly	1.00	AMPA	0.00e+000	0.00	9.07e+004	No Peak	N/A
40	WBA0800-16	Quality Cont	2/5/2021 9:50:3	020521_gly	1.00	AMPA1	0.00e+000	0.00	9.07e+004	No Peak	N/A
41	WBA0800-18	Quality Cont	2/5/2021 9:57:2	020521_gly	1.00	Glyphosate	1.93e+001	0.00	2.71e+004	< 0	N/A
42	WBA0800-18	Quality Cont	2/5/2021 9:57:2	020521_gly	1.00	Glyphosate1	0.00e+000	0.00	2.71e+004	No Peak	N/A
43	WBA0800-18	Quality Cont	2/5/2021 9:57:2	020521_gly	1.00	AMPA	0.00e+000	0.00	2.71e+004	No Peak	N/A
44	WBA0800-18	Quality Cont	2/5/2021 9:57:2	020521_gly	1.00	AMPA1	0.00e+000	0.00	2.71e+004	No Peak	N/A
45	WBA0800-19	Unknown	2/5/2021 10:04:	020521_gly	1.00	Glyphosate	0.00e+000	N/A	2.54e+004	No Peak	N/A
46	WBA0800-19	Unknown	2/5/2021 10:04:	020521_gly	1.00	Glyphosate1	0.00e+000	N/A	2.54e+004	No Peak	N/A
47	WBA0800-19	Unknown	2/5/2021 10:04:	020521_gly	1.00	AMPA	0.00e+000	N/A	2.54e+004	No Peak	N/A
48	WBA0800-19	Unknown	2/5/2021 10:04:	020521_gly	1.00	AMPA1	0.00e+000	N/A	2.54e+004	No Peak	N/A
49	MS	Quality Cont	2/5/2021 10:10:	020521_gly	1.00	Glyphosate	3.42e+004	50.0	3.56e+004	45.5	91.0
50	MS	Quality Cont	2/5/2021 10:10:	020521_gly	1.00	Glyphosate1	1.24e+004	50.0	3.56e+004	46.1	92.1
51	MS	Quality Cont	2/5/2021 10:10:	020521_gly	1.00	AMPA	3.62e+004	100.	3.56e+004	124.	124.
52	MS	Quality Cont	2/5/2021 10:10:	020521_gly	1.00	AMPA1	1.41e+004	100.	3.56e+004	136.	136.
53	MSD	Quality Cont	2/5/2021 10:17:	020521_gly	1.00	Glyphosate	3.79e+004	50.0	3.77e+004	47.7	95.3
54	MSD	Quality Cont	2/5/2021 10:17:	020521_gly	1.00	Glyphosate1	1.38e+004	50.0	3.77e+004	48.6	97.2
55	MSD	Quality Cont	2/5/2021 10:17:	020521_gly	1.00	AMPA	4.19e+004	100.	3.77e+004	136.	136.
56	MSD	Quality Cont	2/5/2021 10:17:	020521_gly	1.00	AMPA1	1.53e+004	100.	3.77e+004	140.	140.
57	CCV 25/50 ppb	Quality Cont	2/5/2021 10:24:	020521_gly	1.00	Glyphosate	1.01e+005	25.0	2.01e+005	22.7	90.9
58	CCV 25/50 ppb	Quality Cont	2/5/2021 10:24:	020521_gly	1.00	Glyphosate1	3.62e+004	25.0	2.01e+005	22.3	89.3
59	CCV 25/50 ppb	Quality Cont	2/5/2021 10:24:	020521_gly	1.00	AMPA	7.83e+004	50.0	2.01e+005	44.3	88.7
60	CCV 25/50 ppb	Quality Cont	2/5/2021 10:24:	020521_gly	1.00	AMPA1	2.91e+004	50.0	2.01e+005	45.8	91.7

Starting sequence Wed Feb 10 15:08:26 2021

Instrument Name: MSD4

Sequence File: T:\Data1\MSD4\SEQUENCES\2021\FEB\08.s

Comment:

Operator: TGT

Data Path: T:\DATA1\MSD4\2021\FEB\10\

Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	11	01101001	CARDSIM	10 PPM MISC PEST
2)	Sample	12	01201002	CARDSIM	5 PPM MISC PEST
3)	Sample	13	01301003	CARDSIM	2.5 PPM MISC PEST
4)	Sample	14	01401004	CARDSIM	1.0 PPM MISC PEST
5)	Sample	15	01501005	CARDSIM	0.5 PPM MISC PEST
6)	Sample	16	01601006	CARDSIM	0.1 PPM MISC PEST
7)	Sample	17	01701007	CARDSIM	0.05 PPM MISC PEST
8)	Sample	1	00101008	SVOCT1	SYS
9)	Sample	8	00801009	SVOCT1	5 PPM OP PEST ICV
10)	Sample	18	01801010	CARDSIM	BBB0038-BS1
11)	Sample	19	01901011	CARDSIM	BBB0038-BSD1
12)	Sample	24	02401012	SVOCT1	BBA0791-BS1
13)	Sample	25	02501013	SVOCT1	BBA0791-BSD1
14)	Sample	26	02601014	SVOCT1	BBA0791-BLK1
15)	Sample	20	02001015	CARDSIM	BBB0038-BLK1
16)	Sample	21	02101016	CARDSIM	WBA0800-16
17)	Sample	22	02201017	CARDSIM	WBA0800-18
18)	Sample	23	02301018	CARDSIM	WBA0800-19
19)	Sample	27	02701019	SVOCT1	MBA0603-01
20)	Sample	31	03101020	SVOCT1	BBA0605-BS1
21)	Sample	32	03201021	SVOCT1	BBA0605-BSD1
22)	Sample	33	03301022	SVOCT1	BBA0605-MS1
23)	Sample	34	03401023	SVOCT1	BBA0605-MSD1
24)	Sample	35	03501024	SVOCT1	BBA0605-BLK1
25)	Sample	36	03601025	SVOCT1	MBA0496-02
26)	Sample	37	03701026	SVOCT1	MBA0496-01
27)	Sample	38	03801027	SVOCT1	MBA0496-03

Sequence completed Thu Feb 11 03:00:01 2021

T:\DATA1\MSD4\2021\FEB\10\2021 Feb 10 1508 Quality Log.LOG

T:\DATA1\MSD4\2021\FEB\10\2021 Feb 10 1508 Sequence Log .LOG



Anatek Labs, Inc

1282 Alturas Drive
Moscow, ID 83843

1,4-Dioxane Cal. Standard Prep. Form

Method: EPA 625.1/8270D

IS/Surrogate Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
CLP B/N Surrogate	2002553	2/22	1000
CLP Internal Standard	2003865	11/21	2000

Target Compound Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
Chlorpyrifos	2003215	6/25/23	1000
Metolachlor	2003216	3/5/23	1000
Atrazine	2003218	11/21/24	1000

Calibration Dilution Template

Desired Concentration (ppm)	Stock Concentration (ppm) **	uL Standard Added	Final Volume (uL)
10	100	100	1000
5	100	50	1000
2.5	100	25	1000
1.0	100	10	1000
0.5	100	5	1000
0.1	100	1	1000
0.05	100	0.5	1000

Calibration made from target compound standards in the table. 25 uL of surrogate and 10 uL of IS stock added to each standard point. Dilutions were made in MeCl₂ (2003529).

Analyst Initials: 21061

Form CS06.00 – Eff 9 Mar 2015

Date of Preparation: 9/28/20 by TGT

Page 1 of 1

PREPARATION BENCH SHEET

Organics

BBB0038

Print Date/Time: 02/16/2021 3:00 PM

Page 40 of 185

Matrix: Water

Prepared using: SVOC - SVOC Water

Analyses

SVOC 625 MISC

Spiking Solution(s)

2003078 Cardno Spk

Surrogate Solution(s)

2002552 CLP Acid Surr 2000
2002553 CLP B/N 1000

Lab Number	Sample and Source ID	Date Due	Extract by	Prepared	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
BBB0038-BLK1	Blank			2/1/2021 1:41:00PM	1000	1		25	
BBB0038-BS1	LCS			2/1/2021 1:41:00PM	1000	1	50	25	
BBB0038-BSD1	LCS Dup			2/1/2021 1:41:00PM	1000	1	50	25	
WBA0800-16	WW-3	02/10/2021	02/01/2021	2/1/2021 1:41:00PM	1000	1		25	
WBA0800-18	E-1	02/10/2021	02/01/2021	2/1/2021 1:41:00PM	1000	1		25	
WBA0800-19	E-2	02/10/2021	02/01/2021	2/1/2021 1:41:00PM	1000	1		25	

Reagents

Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2000155	H2SO4	58115
2003324	Dichloromethane	60192

Batch Comments:

Acidic start/stop time: 3PM- 8AM
Basic start/stop time: 8AM-3PM
Instrument: 7890/5975 GCMS
Ext. Method: 3520C liq-liq/Waste Dilution/Microextr
TurboVap: 01
Balance: 04
I.S2003865 2000ppm EXP 11/21

Analyst:

Date

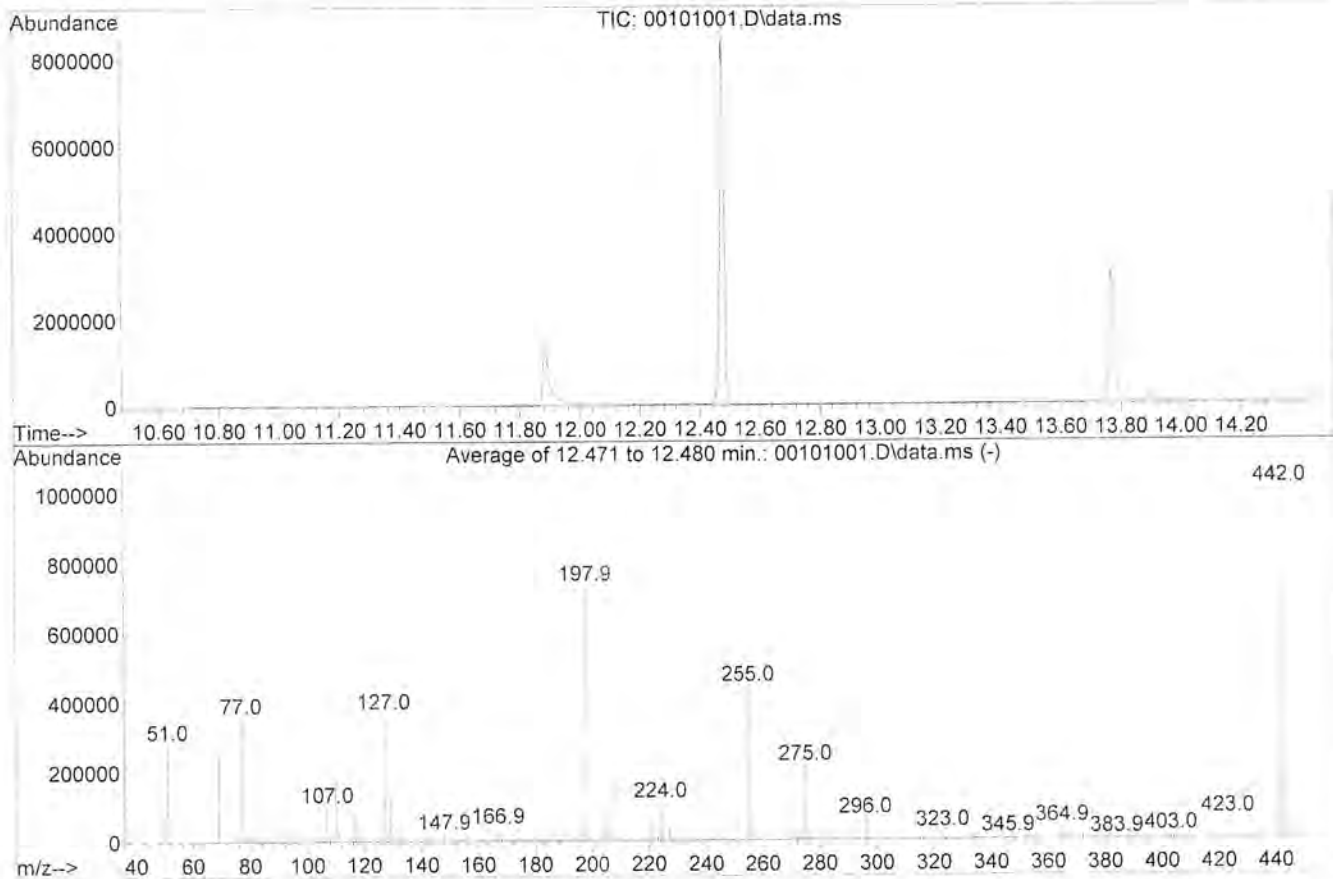
Run Date:

Date

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 00101001.D
Acq On : 10 Feb 2021 10:43 am
Operator : TGT
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Title : EPA 8270D - GC MSD4
Last Update : Thu Feb 11 08:53:17 2021



AutoFind: Scans 1926, 1927, 1928; Background Corrected with Scan 1916

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.4	281444	PASS
68	69	0.00	2	1.6	4470	PASS
69	198	0.00	100	38.0	278251	PASS
70	69	0.00	2	0.6	1547	PASS
127	198	25	75	50.1	366997	PASS
197	198	0.00	1	0.4	2777	PASS
198	198	100	100	100.0	733035	PASS
199	198	5	9	6.7	49101	PASS
275	198	10	60	29.2	213760	PASS
365	198	0.00	100	4.6	33808	PASS
441	443	0.01	100	74.9	152896	PASS
442	198	39	200	139.8	1024512	PASS
443	442	15	24	19.9	204203	PASS

Data Path : T:\Data1\MSD4\2021\FEB\10\
 Data File : 01101001.D
 Acq On : 10 Feb 2021 3:12 pm
 Operator : TGT
 Sample : 10 PPM MISC PEST
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

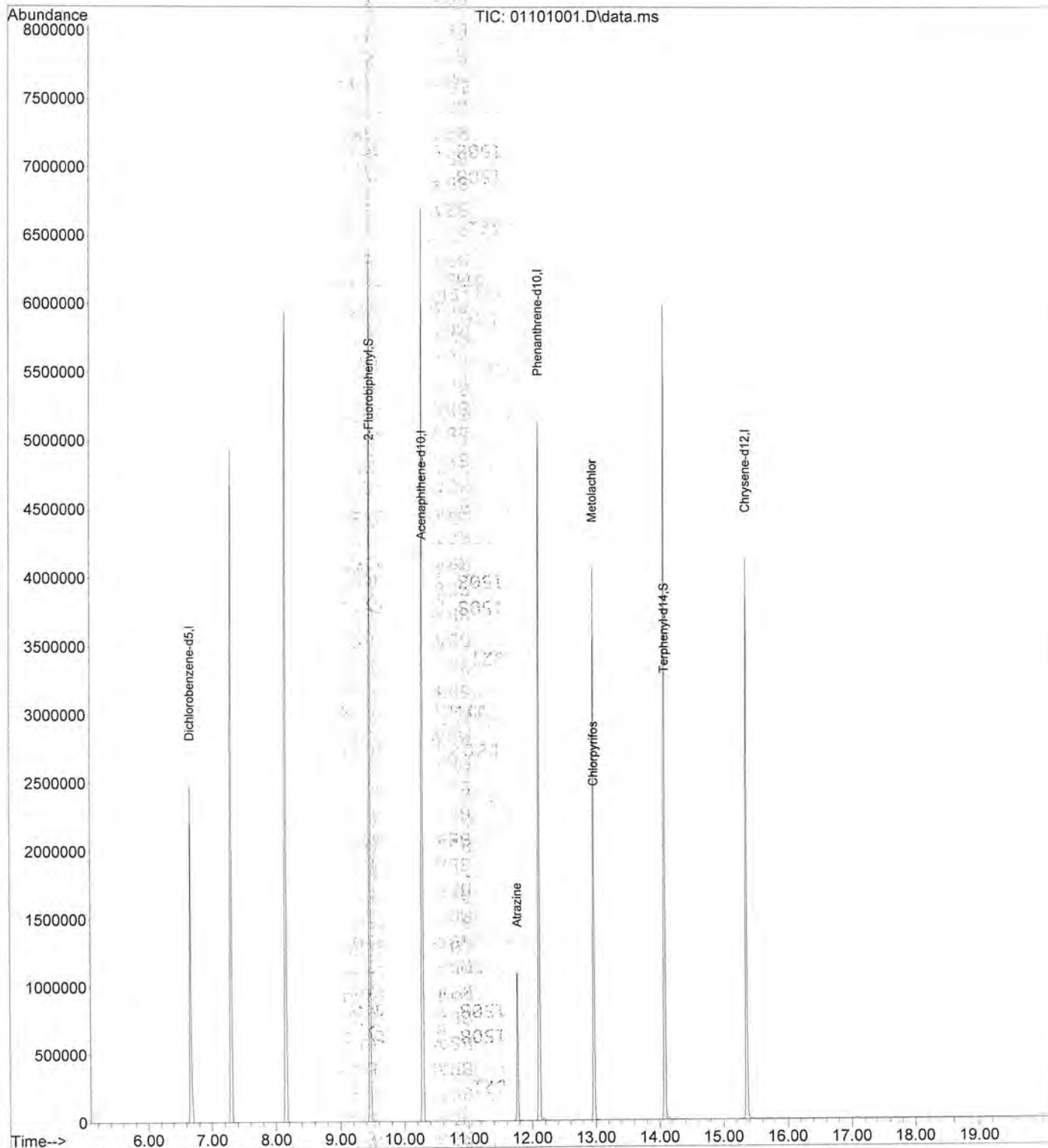
Quant Time: Feb 11 09:09:27 2021
 Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Feb 11 09:09:05 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.673	150	31050657	20.00	ppm	0.00
3) Acenaphthene-d10	10.290	164	41182767	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.116	188	64835780	20.00	ppm	# 0.00
8) Chrysene-d12	15.363	240	45352164	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.468	172	69156553	25.19	ppm	0.00
9) Terphenyl-d14	14.082	244	58915558	25.54	ppm	0.00
Spiked Amount	25.000			Recovery	= 102.16%	
Target Compounds						
4) Atrazine	11.774	200	7101027	9.55	ppm	Qvalue 97
6) Metolachlor	12.973	162	19492265	9.46	ppm	95
7) Chlorpyrifos	12.975	197	4181152	9.47	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01101001.D
Acq On : 10 Feb 2021 3:12 pm
Operator : TGT
Sample : 10 PPM MISC PEST
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 11 09:09:27 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01201002.D
Acq On : 10 Feb 2021 3:39 pm
Operator : TGT
Sample : 5 PPM MISC PEST
Misc :
ALS Vial : 12 Sample Multiplier: 1

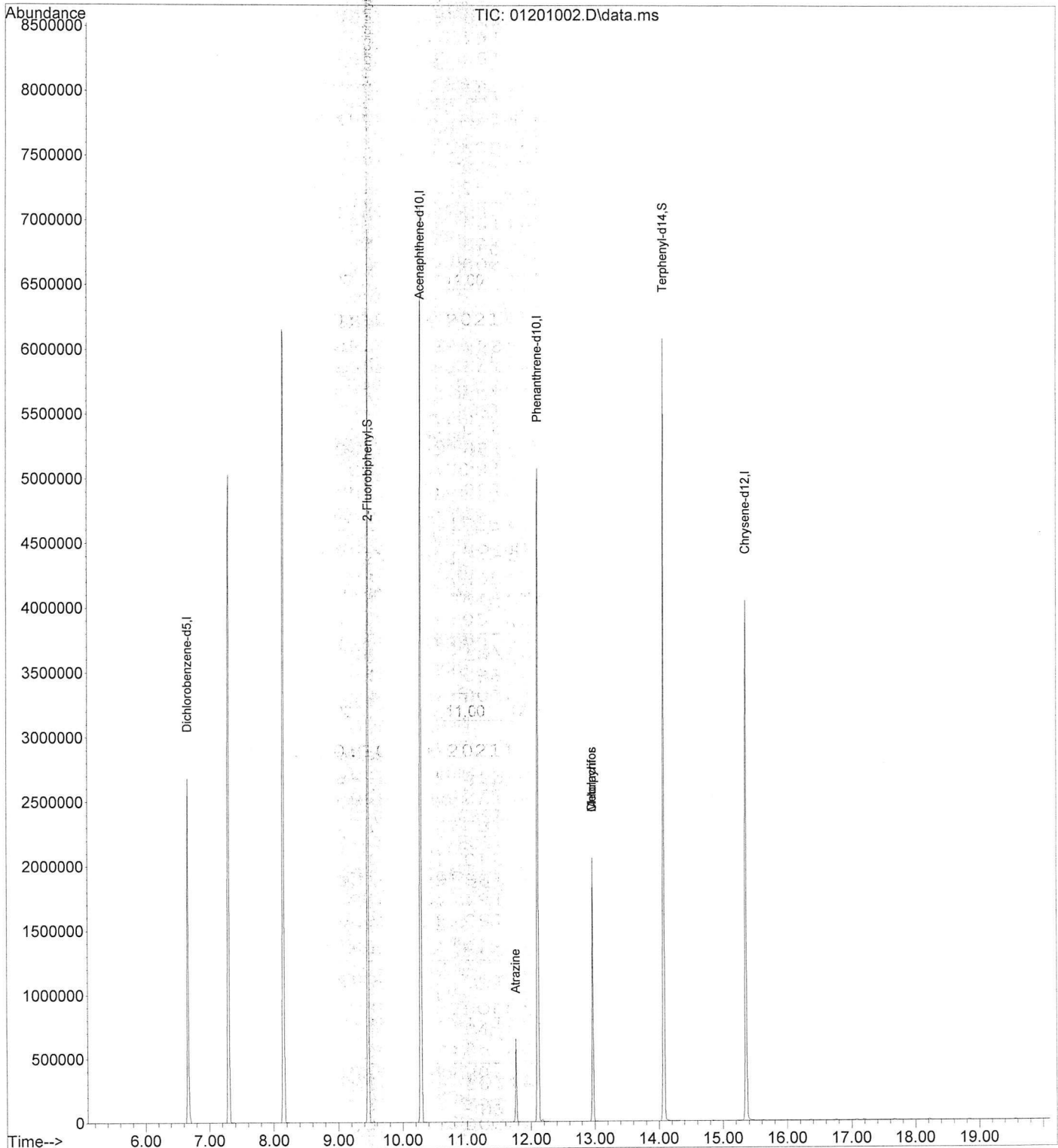
Quant Time: Feb 11 09:09:42 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.671	150	35201237	20.00	ppm	0.00
3) Acenaphthene-d10	10.289	164	46295091	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.115	188	70202094	20.00	ppm	# 0.00
8) Chrysene-d12	15.362	240	49020765	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.467	172	76829125	24.69	ppm	0.00
9) Terphenyl-d14	14.081	244	61212934	24.55	ppm	0.00
Spiked Amount	25.000		Recovery	=	98.20%	
Target Compounds						
4) Atrazine	11.770	200	3474876	5.43	ppm	Qvalue 97
6) Metolachlor	12.972	162	9603105	5.60	ppm	98
7) Chlorpyrifos	12.974	197	2120122	5.54	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01201002.D
Acq On : 10 Feb 2021 3:39 pm
Operator : TGT
Sample : 5 PPM MISC PEST
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 11 09:09:42 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
 Data File : 01301003.D
 Acq On : 10 Feb 2021 4:06 pm
 Operator : TGT
 Sample : 2.5 PPM MISC PEST
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

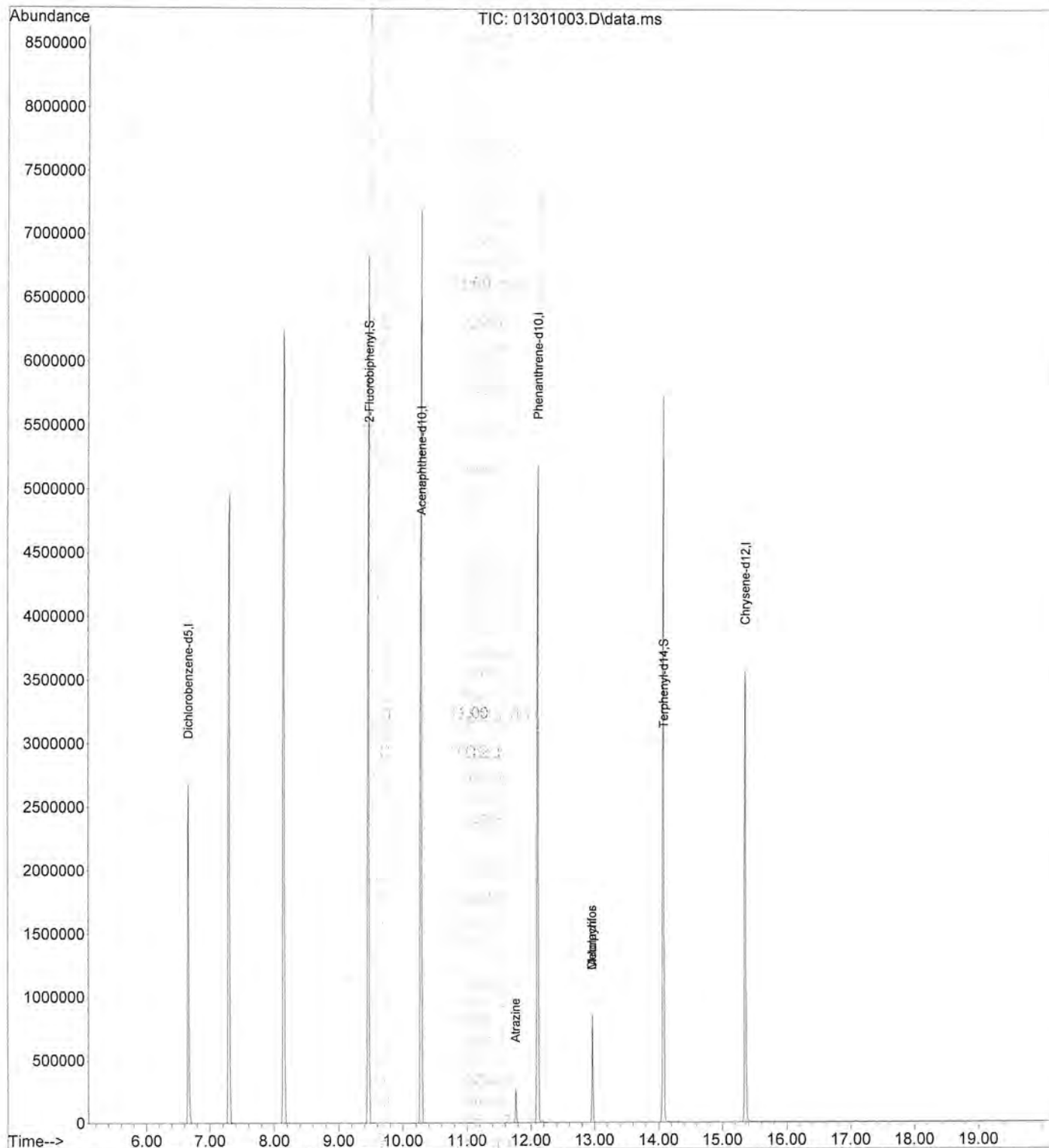
Quant Time: Feb 11 09:09:56 2021
 Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Feb 11 09:09:05 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.671	150	35645751	20.00	ppm	0.00
3) Acenaphthene-d10	10.290	164	46507661	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.116	188	69446001	20.00	ppm	# 0.00
8) Chrysene-d12	15.361	240	45600578	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.468	172	78629654	24.95	ppm	0.00
9) Terphenyl-d14	14.081	244	58746973	25.32	ppm	0.00
Spiked Amount	25.000			Recovery	=	101.28%
Target Compounds						
4) Atrazine	11.769	200	1411483	2.74	ppm	Qvalue 97
6) Metolachlor	12.972	162	3776170	2.84	ppm	96
7) Chlorpyrifos	12.974	197	873139	2.79	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01301003.D
Acq On : 10 Feb 2021 4:06 pm
Operator : TGT
Sample : 2.5 PPM MISC PEST
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 11 09:09:56 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01401004.D
Acq On : 10 Feb 2021 4:33 pm
Operator : TGT
Sample : 1.0 PPM MISC PEST
Misc :
ALS Vial : 14 Sample Multiplier: 1

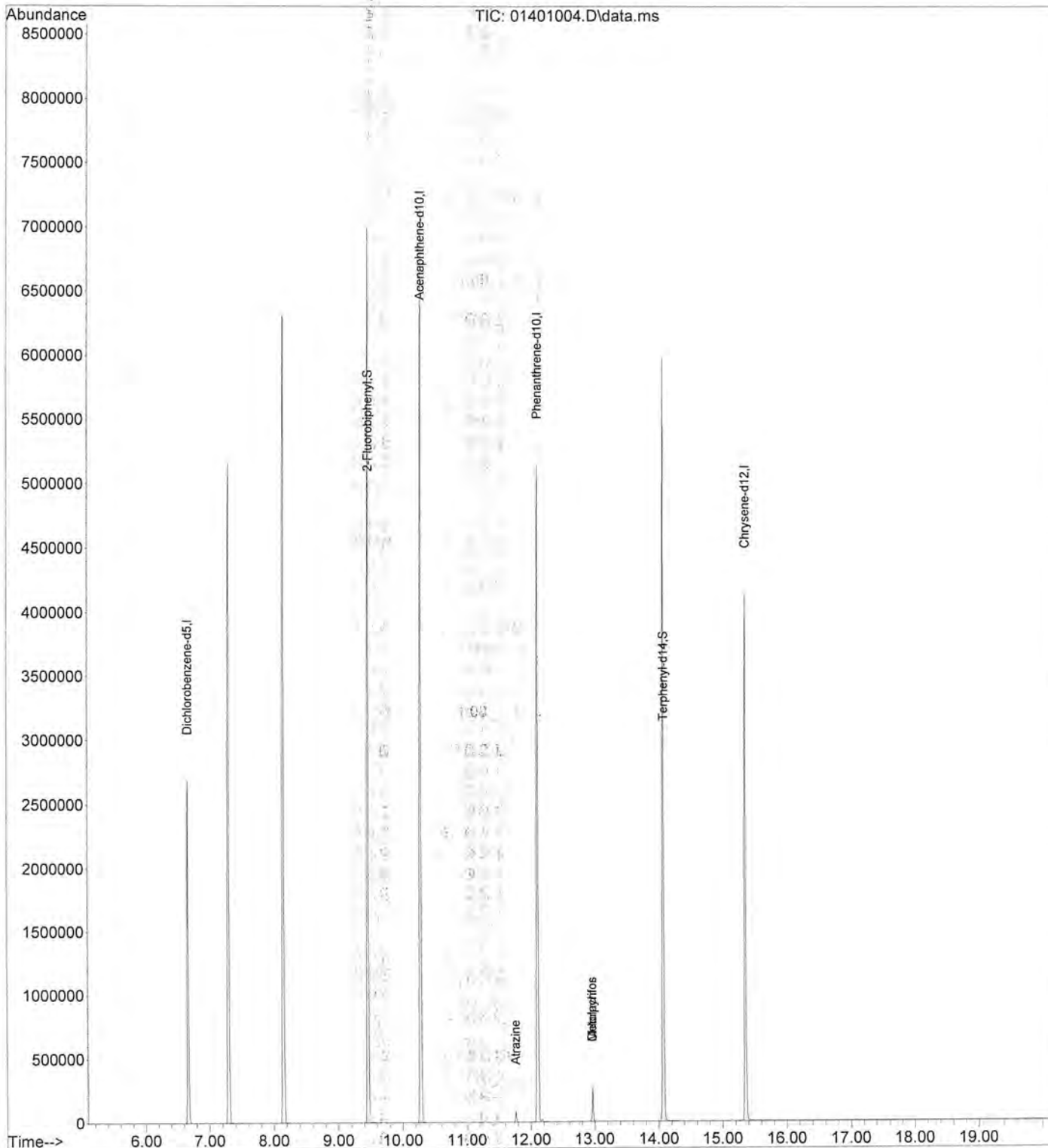
Quant Time: Feb 11 09:10:10 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.670	150	36067349	20.00	ppm	0.00
3) Acenaphthene-d10	10.290	164	46303211	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.115	188	71084340	20.00	ppm	# 0.00
8) Chrysene-d12	15.362	240	49805165	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.468	172	77898575	24.43	ppm	0.00
9) Terphenyl-d14	14.081	244	60631221	23.93	ppm	0.00
Spiked Amount	25.000		Recovery	=	95.72%	
Target Compounds						
4) Atrazine	11.769	200	466702	1.08	ppm	Qvalue 97
6) Metolachlor	12.972	162	1177591	1.05	ppm	98
7) Chlorpyrifos	12.974	197	297751	1.07	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01401004.D
Acq On : 10 Feb 2021 4:33 pm
Operator : TGT
Sample : 1.0 PPM MISC PEST
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 11 09:10:10 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
 Data File : 01501005.D
 Acq On : 10 Feb 2021 4:59 pm
 Operator : TGT
 Sample : 0.5 PPM MISC PEST
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

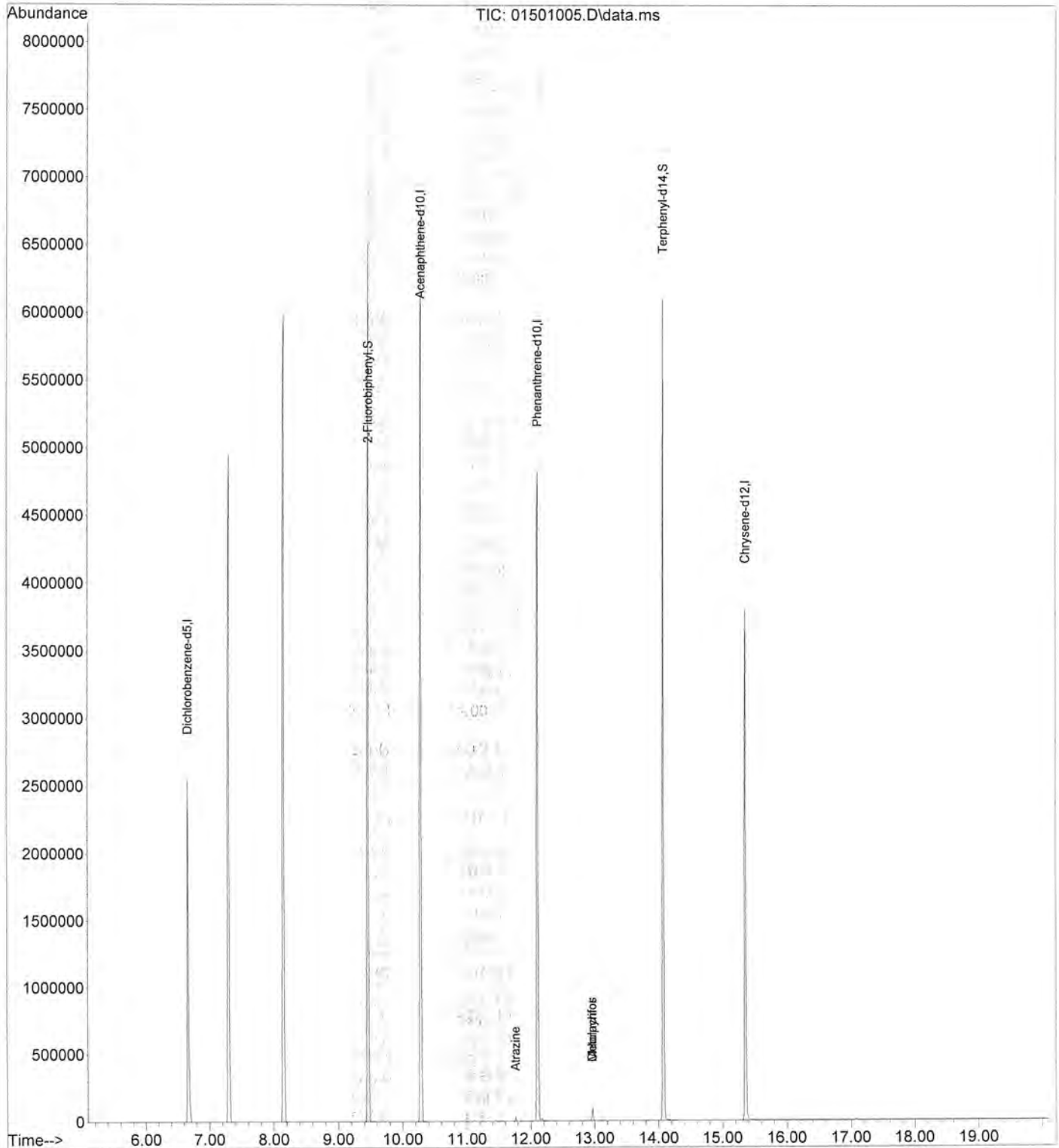
Quant Time: Feb 11 09:10:25 2021
 Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Feb 11 09:09:05 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.673	150	32420615	20.00	ppm	0.00
3) Acenaphthene-d10	10.290	164	43210690	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.115	188	65303057	20.00	ppm	# 0.00
8) Chrysene-d12	15.362	240	45687984	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.468	172	72689872	25.36	ppm	0.00
9) Terphenyl-d14	14.081	244	58945720	25.36	ppm	0.00
Spiked Amount	25.000			Recovery	=	101.44%
Target Compounds						
4) Atrazine	11.769	200	179297	0.48	ppm	Qvalue 97
6) Metolachlor	12.972	162	436104	0.46	ppm	97
7) Chlorpyrifos	12.974	197	121275	0.50	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01501005.D
Acq On : 10 Feb 2021 4:59 pm
Operator : TGT
Sample : 0.5 PPM MISC PEST
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 11 09:10:25 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01601006.D
Acq On : 10 Feb 2021 5:26 pm
Operator : TGT
Sample : 0.1 PPM MISC PEST
Misc :
ALS Vial : 16 Sample Multiplier: 1

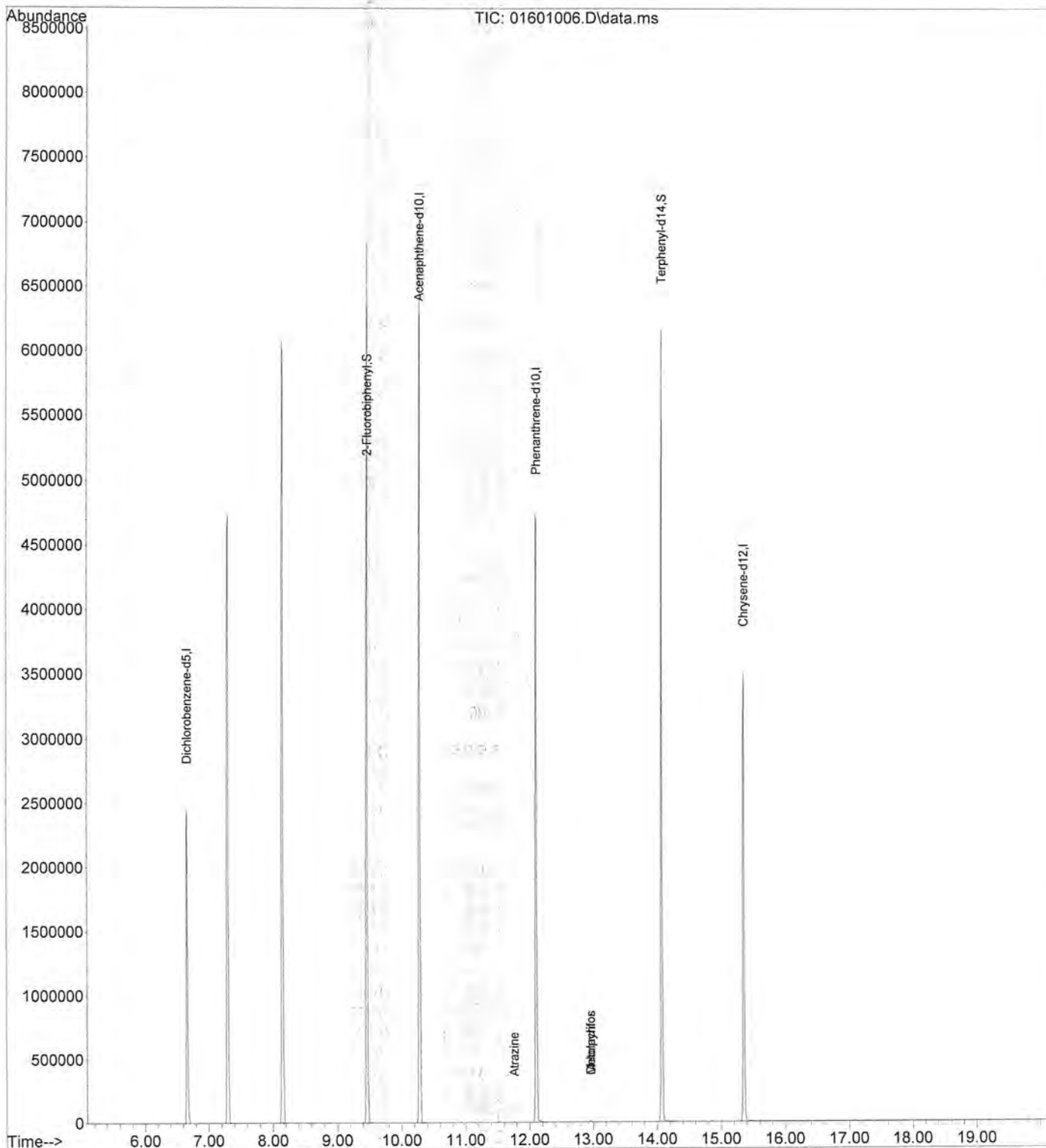
Quant Time: Feb 11 09:10:40 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.670	150	34054471	20.00	ppm	0.00
3) Acenaphthene-d10	10.289	164	44386517	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.115	188	66472048	20.00	ppm	# 0.00
8) Chrysene-d12	15.361	240	44641601	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.468	172	76385073	25.37	ppm	0.00
9) Terphenyl-d14	14.081	244	57543590	25.34	ppm	0.00
Spiked Amount	25.000		Recovery	=	101.36%	
Target Compounds						
4) Atrazine	11.768	200	27435	0.07	ppm	# 81
6) Metolachlor	12.970	162	65254	0.07	ppm	97
7) Chlorpyrifos	12.973	197	16366	0.07	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01601006.D
Acq On : 10 Feb 2021 5:26 pm
Operator : TGT
Sample : 0.1 PPM MISC PEST
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 11 09:10:40 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
 Data File : 01701007.D
 Acq On : 10 Feb 2021 5:53 pm
 Operator : TGT
 Sample : 0.05 PPM MISC PEST
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 11 09:10:55 2021
 Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Feb 11 09:09:05 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.672	150	34709520	20.00	ppm	0.00
3) Acenaphthene-d10	10.289	164	46584826	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.115	188	70649819	20.00	ppm	# 0.00
8) Chrysene-d12	15.362	240	50489617	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.468	172	74868288	24.40	ppm	0.00
9) Terphenyl-d14	14.081	244	61386538	23.90	ppm	0.00
Spiked Amount	25.000		Recovery	=	95.60%	
Target Compounds						
4) Atrazine	11.769	200	13739	0.04	ppm	Qvalue # 33
6) Metolachlor	12.970	162	32840	0.03	ppm	97
7) Chlorpyrifos	12.970	197	8262m	0.03	ppm	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

150
164
188
240

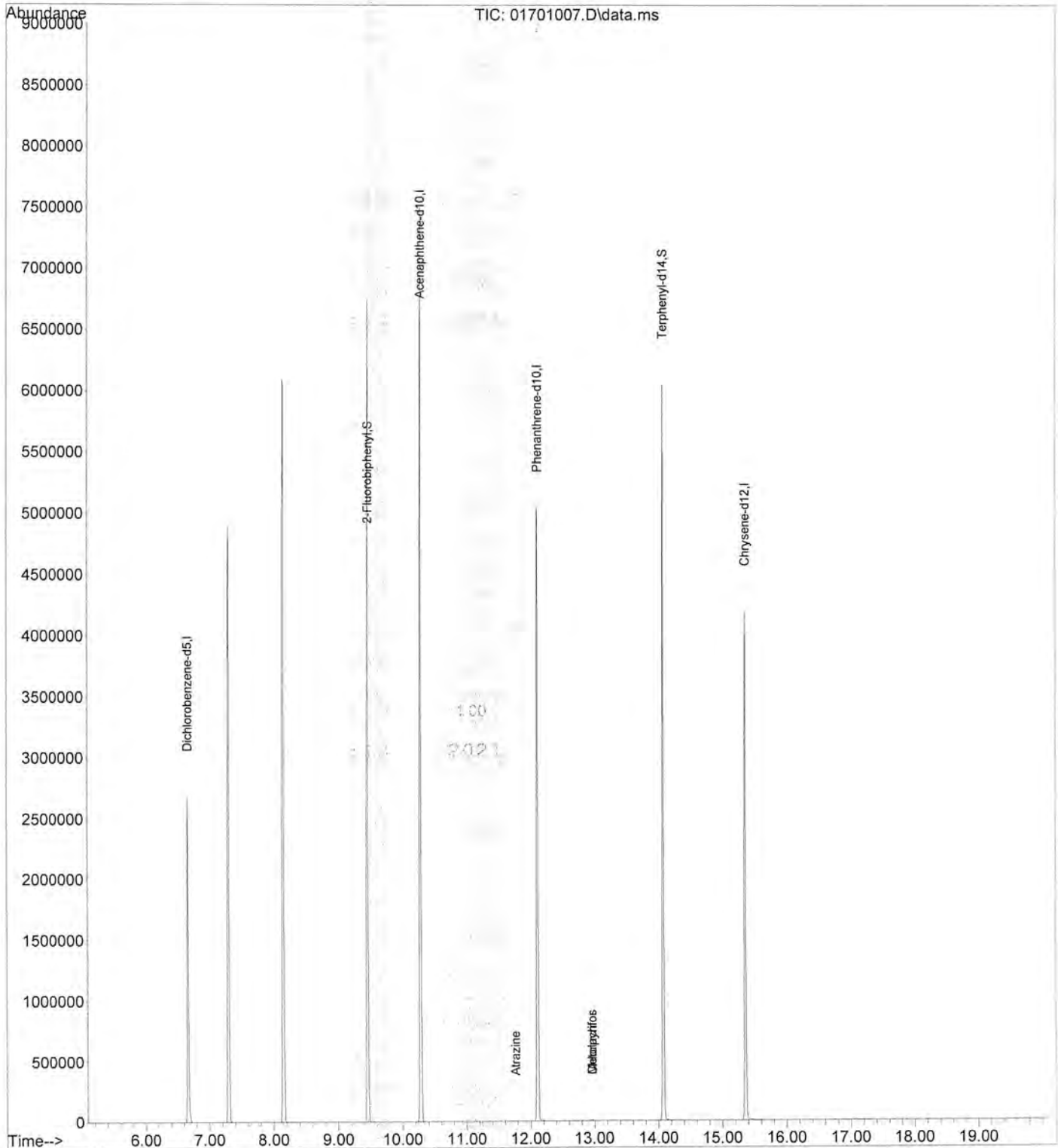
172
244

200
162
197

200

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01701007.D
Acq On : 10 Feb 2021 5:53 pm
Operator : TGT
Sample : 0.05 PPM MISC PEST
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 11 09:10:55 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 09:09:05 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
 Data File : 01801010.D
 Acq On : 10 Feb 2021 7:13 pm
 Operator : TGT
 Sample : BBB0038-BS1
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

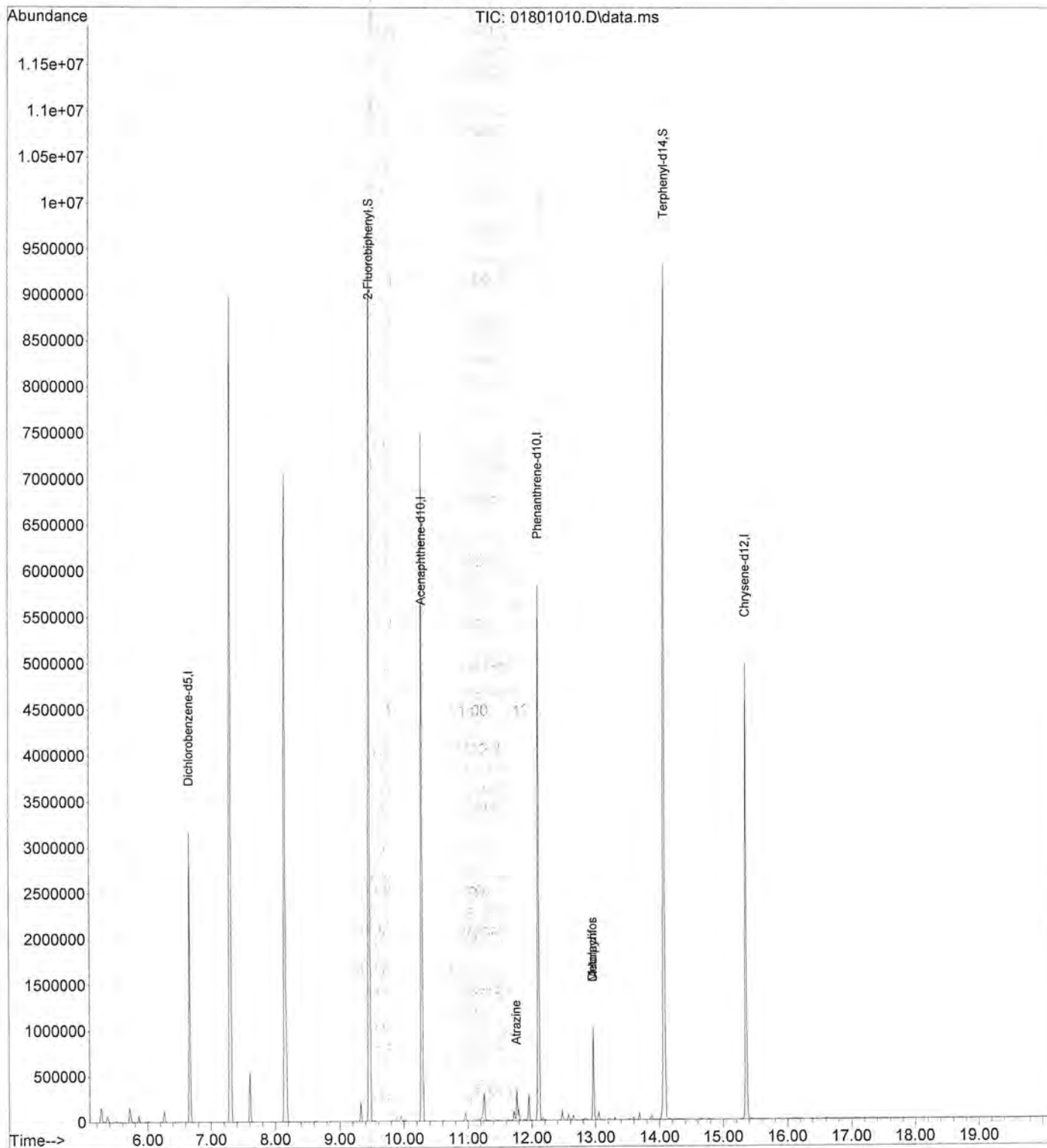
Quant Time: Feb 11 08:53:46 2021
 Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Feb 11 08:53:17 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.674	150	35333869	20.00	ppm	0.00
3) Acenaphthene-d10	10.291	164	47729700	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.117	188	73189246	20.00	ppm	# 0.00
8) Chrysene-d12	15.363	240	55134547	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.470	172	122156374	39.11	ppm	0.00
9) Terphenyl-d14	14.086	244	90459006	32.25	ppm	0.01
Spiked Amount	25.000		Recovery	= 129.00%		
Target Compounds						
4) Atrazine	11.766	200	1744904m	2.78	ppm	Qvalue
6) Metolachlor	12.973	162	4965495	2.81	ppm	97
7) Chlorpyrifos	12.974	197	1089850	2.72	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01801010.D
Acq On : 10 Feb 2021 7:13 pm
Operator : TGT
Sample : BBB0038-BS1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 11 08:53:46 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 08:53:17 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
 Data File : 01901011.D
 Acq On : 10 Feb 2021 7:40 pm
 Operator : TGT
 Sample : BBB0038-BSD1
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

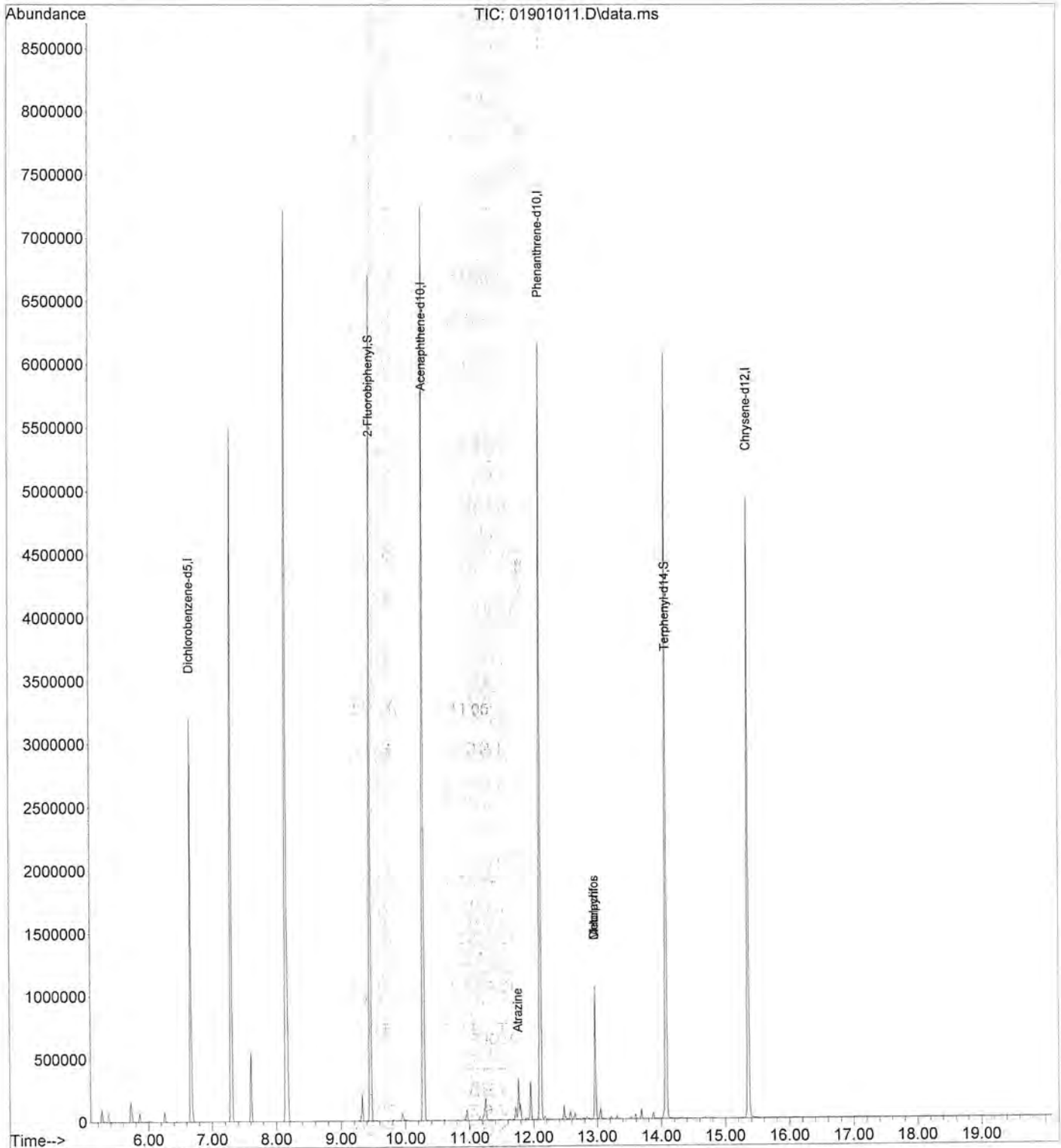
Quant Time: Feb 11 08:53:18 2021
 Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Feb 11 08:53:17 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.674	150	36078821	20.00	ppm	0.00
3) Acenaphthene-d10	10.291	164	49105101	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.118	188	76874339	20.00	ppm	# 0.00
8) Chrysene-d12	15.363	240	56308730	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.468	172	75332729	23.62	ppm	0.00
9) Terphenyl-d14	14.082	244	63331769	22.11	ppm	0.00
Spiked Amount	25.000		Recovery	=	88.44%	
Target Compounds						
4) Atrazine	11.766	200	1806325m	2.79	ppm	Qvalue
6) Metolachlor	12.972	162	5242068	2.82	ppm	98
7) Chlorpyrifos	12.969	197	1136878m	2.70	ppm	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 01901011.D
Acq On : 10 Feb 2021 7:40 pm
Operator : TGT
Sample : BBB0038-BSD1
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 11 08:53:18 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 08:53:17 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 02001015.D
Acq On : 10 Feb 2021 9:27 pm
Operator : TGT
Sample : BBB0038-BLK1
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 11 08:45:41 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 08:45:04 2021
Response via : Initial Calibration

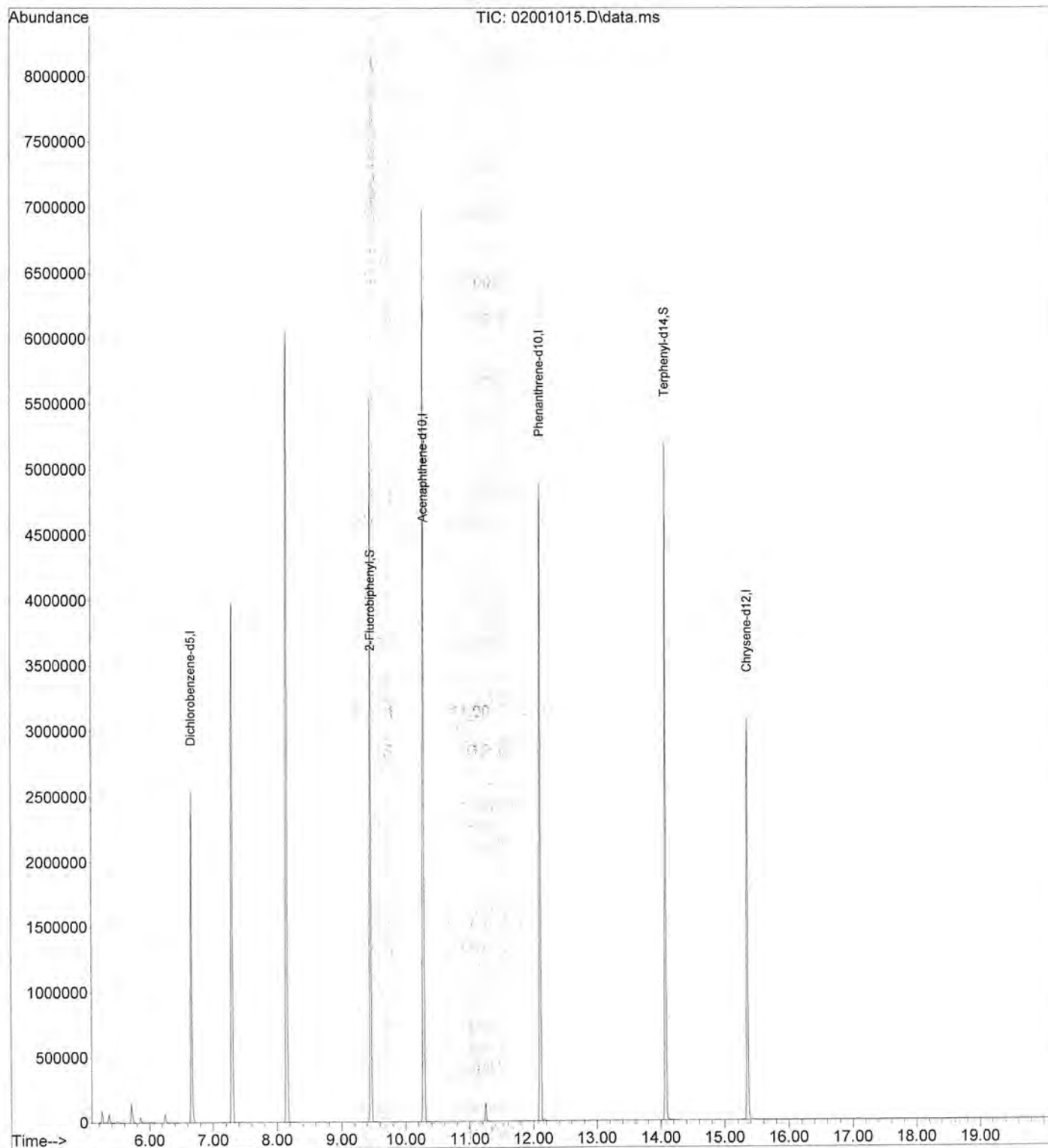
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.672	150	31848470	20.00	ppm	0.00
3) Acenaphthene-d10	10.290	164	43037531	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.116	188	63606760	20.00	ppm	# 0.00
8) Chrysene-d12	15.361	240	38478097	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.467	172	56215030	19.97	ppm	0.00
9) Terphenyl-d14	14.081	244	49594877	25.34	ppm	0.00
Spiked Amount	25.000			Recovery	=	101.36%

Target Compounds	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 02001015.D
Acq On : 10 Feb 2021 9:27 pm
Operator : TGT
Sample : BBB0038-BLK1
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 11 08:45:41 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 08:45:04 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 02101016.D
Acq On : 10 Feb 2021 9:53 pm
Operator : TGT
Sample : WBA0800-16
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 11 08:45:56 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 08:45:04 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.670	150	30419537	20.00	ppm	0.00
3) Acenaphthene-d10	10.290	164	41804796	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.115	188	63581356	20.00	ppm	# 0.00
8) Chrysene-d12	15.362	240	47544993	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.468	172	65365747	24.31	ppm	0.00
9) Terphenyl-d14	14.081	244	56902317	23.53	ppm	0.00
Spiked Amount	25.000		Recovery	=	94.12%	

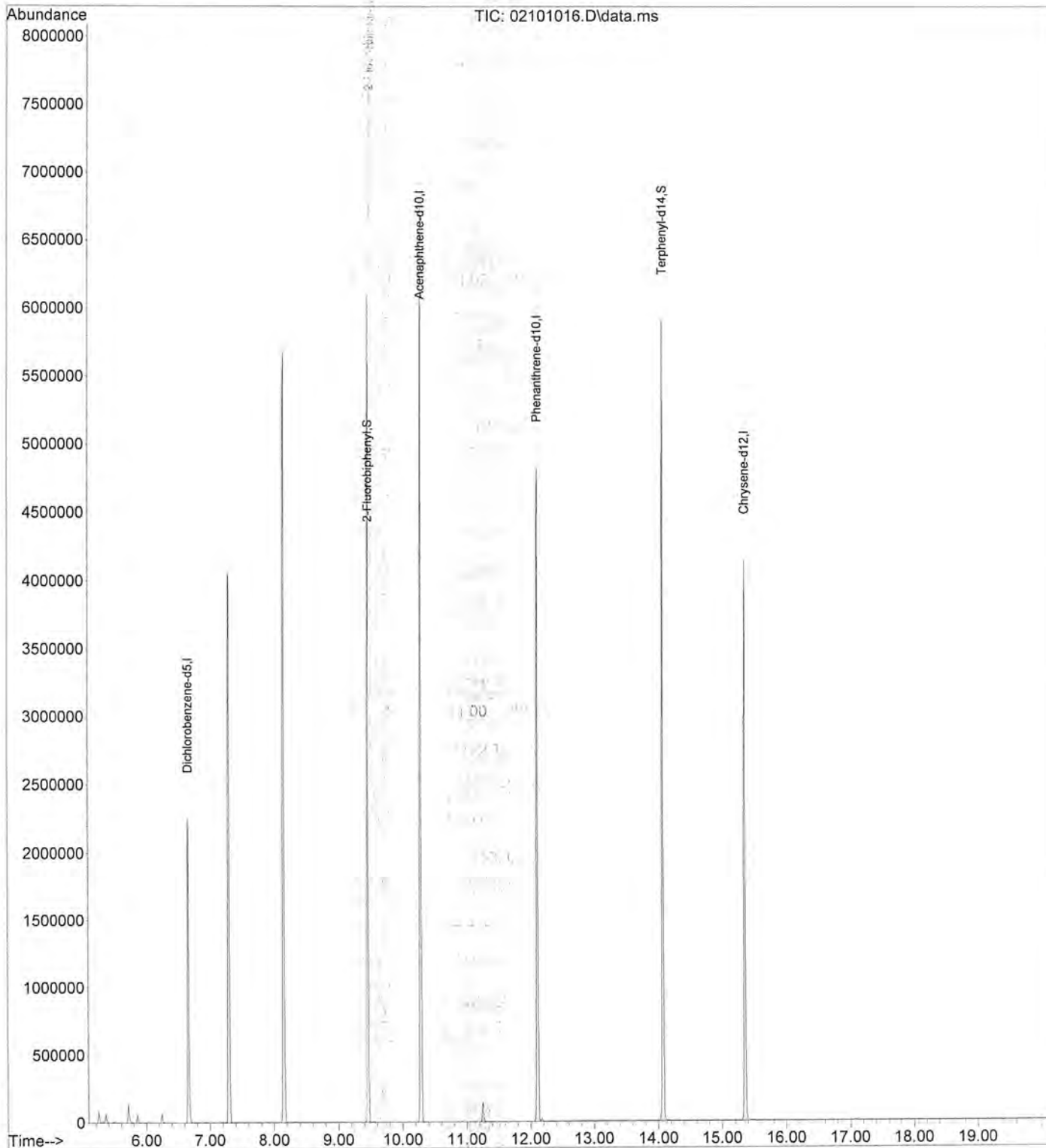
Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
 Data File : 02101016.D
 Acq On : 10 Feb 2021 9:53 pm
 Operator : TGT
 Sample : WBA0800-16
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 11 08:45:56 2021
 Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Feb 11 08:45:04 2021
 Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 02201017.D
Acq On : 10 Feb 2021 10:20 pm
Operator : TGT
Sample : WBA0800-18
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 11 08:46:05 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 08:45:04 2021
Response via : Initial Calibration

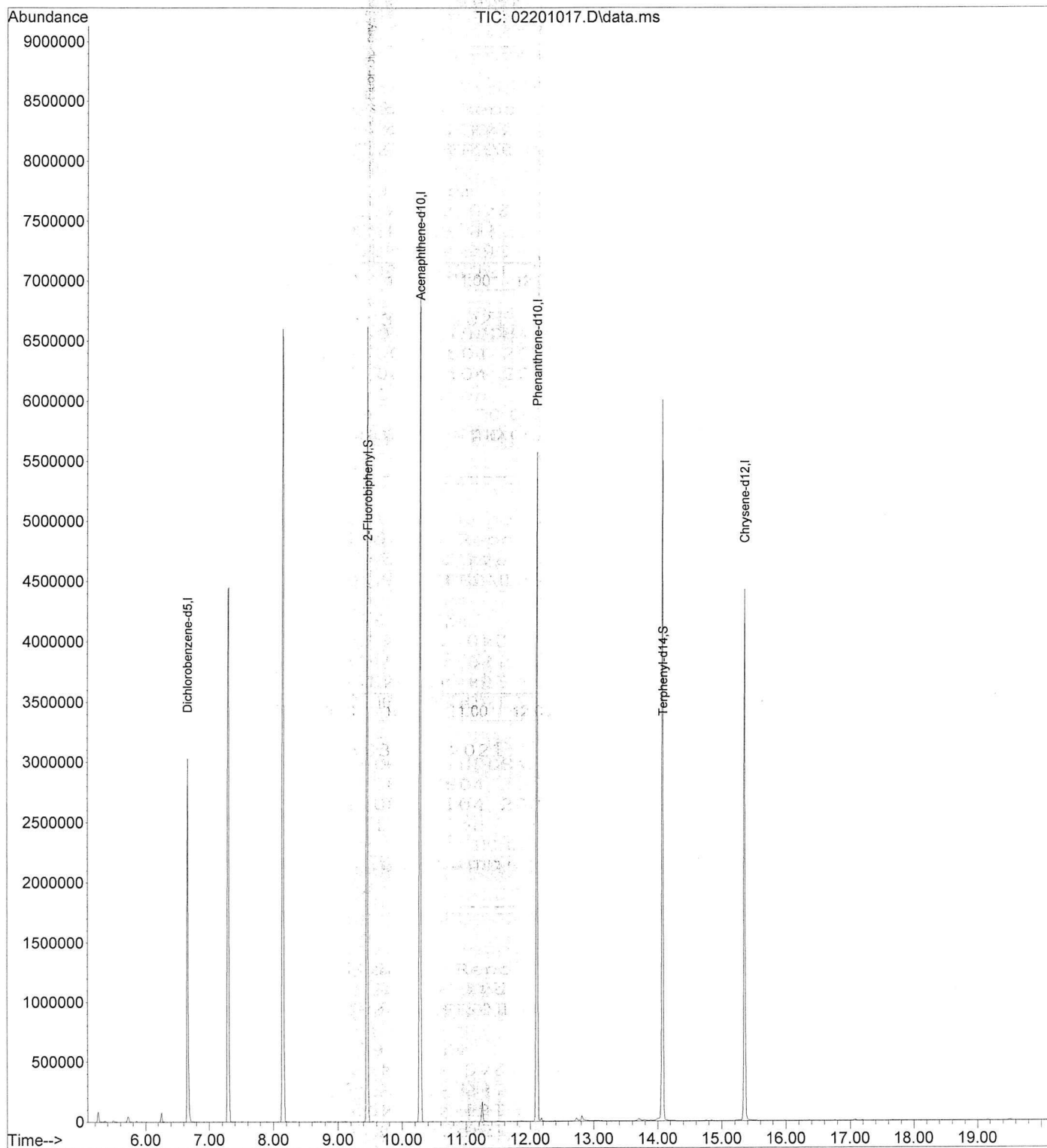
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.672	150	37356134	20.00	ppm	0.00
3) Acenaphthene-d10	10.290	164	50559039	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.116	188	76321482	20.00	ppm	# 0.00
8) Chrysene-d12	15.363	240	51179332	20.00	ppm	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.467	172	76694384	23.22	ppm	0.00
9) Terphenyl-d14	14.082	244	63558708	24.41	ppm	0.00
Spiked Amount	25.000					
			Recovery	=	97.64%	

Target Compounds	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 02201017.D
Acq On : 10 Feb 2021 10:20 pm
Operator : TGT
Sample : WBA0800-18
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 11 08:46:05 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 08:45:04 2021
Response via : Initial Calibration



Data Path : T:\Data1\MSD4\2021\FEB\10\
 Data File : 02301018.D
 Acq On : 10 Feb 2021 10:46 pm
 Operator : TGT
 Sample : WBA0800-19
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 11 08:54:13 2021
 Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Thu Feb 11 08:53:17 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.674	150	40515267	20.00	ppm	0.00
3) Acenaphthene-d10	10.289	164	55036296	20.00	ppm	# 0.00
5) Phenanthrene-d10	12.116	188	86162663	20.00	ppm	# 0.00
8) Chrysene-d12	15.363	240	64556067	20.00	ppm	# 0.00

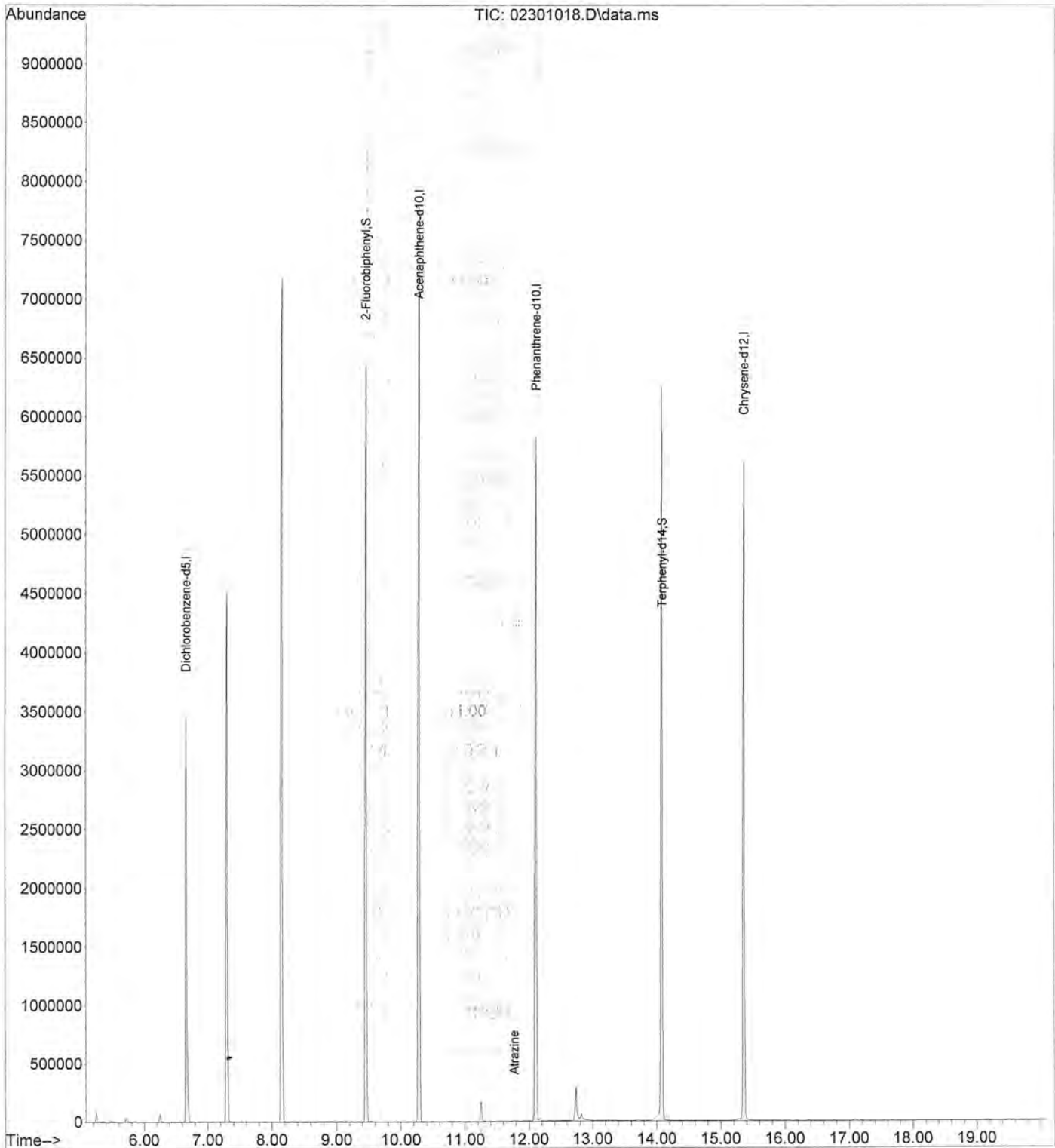
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.466	172	72789794	20.32	ppm	0.00
9) Terphenyl-d14	14.082	244	72752602	22.15	ppm	0.00
Spiked Amount	25.000		Recovery	=	88.60%	

Target Compounds						Qvalue
4) Atrazine	11.774	200	57487m	0.09	ppm	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2021\FEB\10\
Data File : 02301018.D
Acq On : 10 Feb 2021 10:46 pm
Operator : TGT
Sample : WBA0800-19
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 11 08:54:13 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0211.m
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Feb 11 08:53:17 2021
Response via : Initial Calibration



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10007.D Vial: 6
Acq On : 02 Feb 2021 21:31 Operator: ARC
Sample : BBA0792-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:33 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

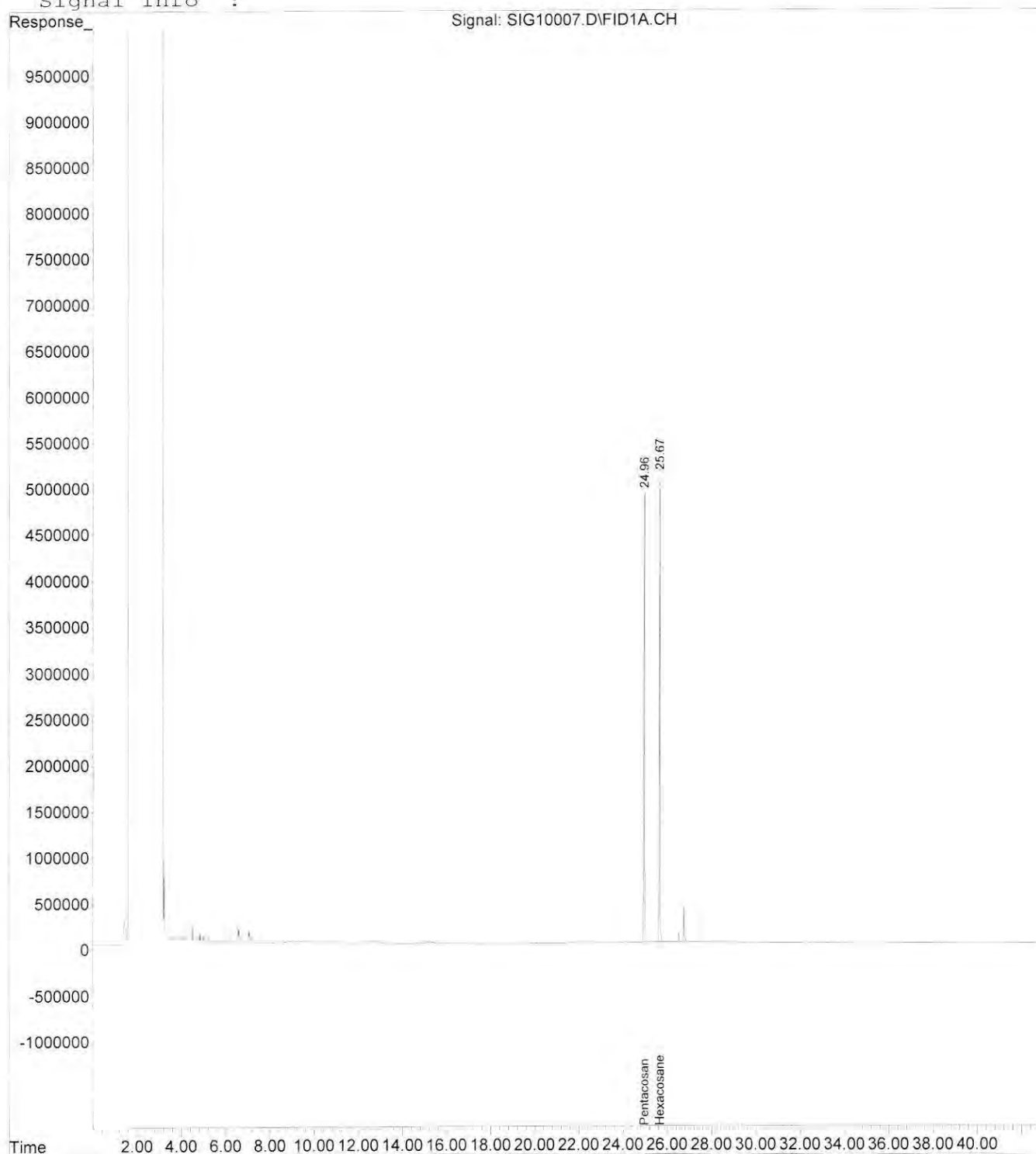
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	105392786	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	103488497	48.752 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 97.50%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10007.D Vial: 6
Acq On : 02 Feb 2021 21:31 Operator: ARC
Sample : BBA0792-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 8:05 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10008.D Vial: 7
Acq On : 02 Feb 2021 22:26 Operator: ARC
Sample : BBA0792-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:34 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

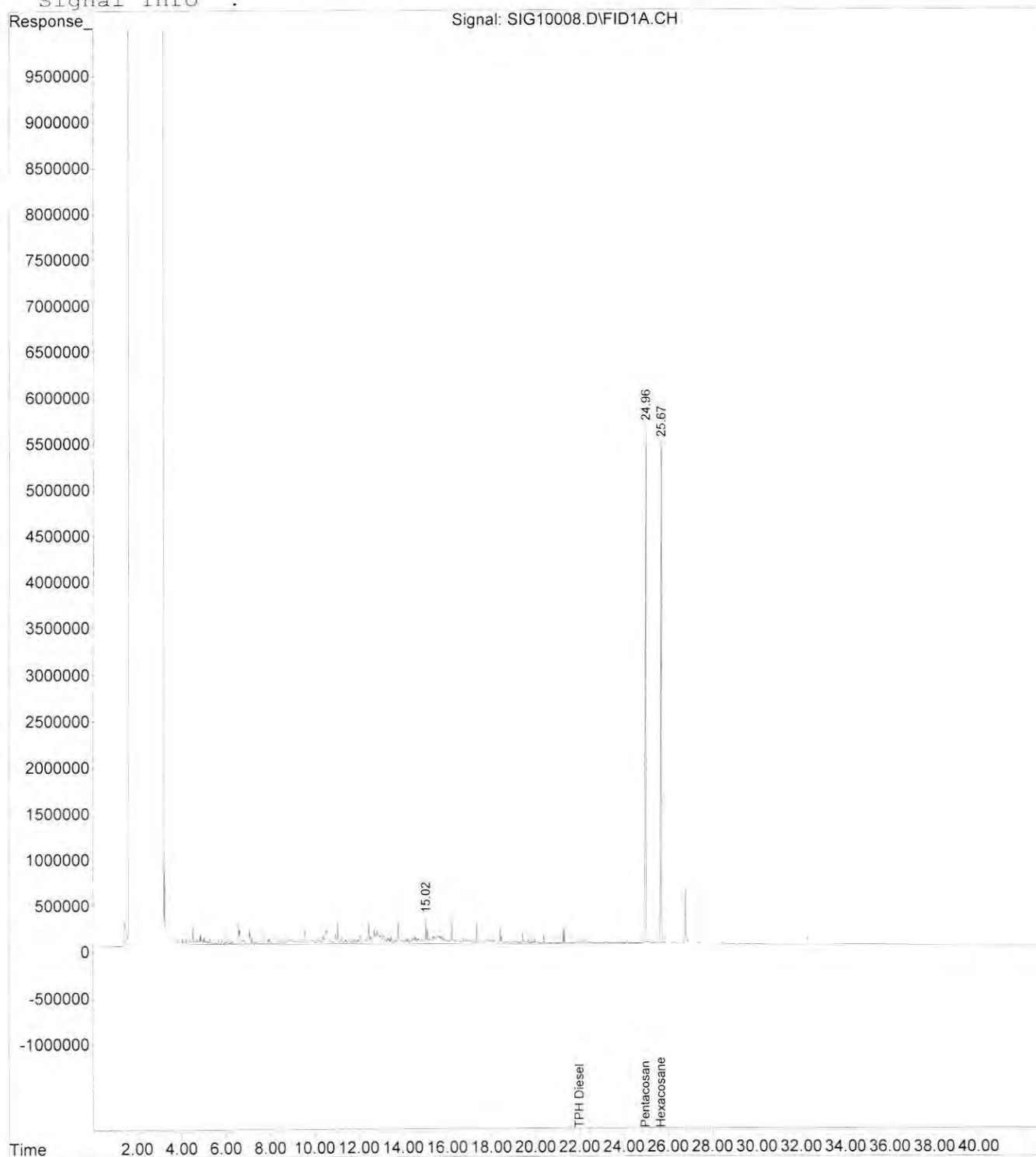
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.96	125825859	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.67	112934312	44.562 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	89.12%
Target Compounds			
3) H TPH Diesel (C12-C14)	21.97	390793100	195.801 ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10008.D Vial: 7
Acq On : 02 Feb 2021 22:26 Operator: ARC
Sample : BBA0792-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 5 8:50 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10009.D Vial: 8
Acq On : 02 Feb 2021 23:21 Operator: ARC
Sample : WBA0800-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:35 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

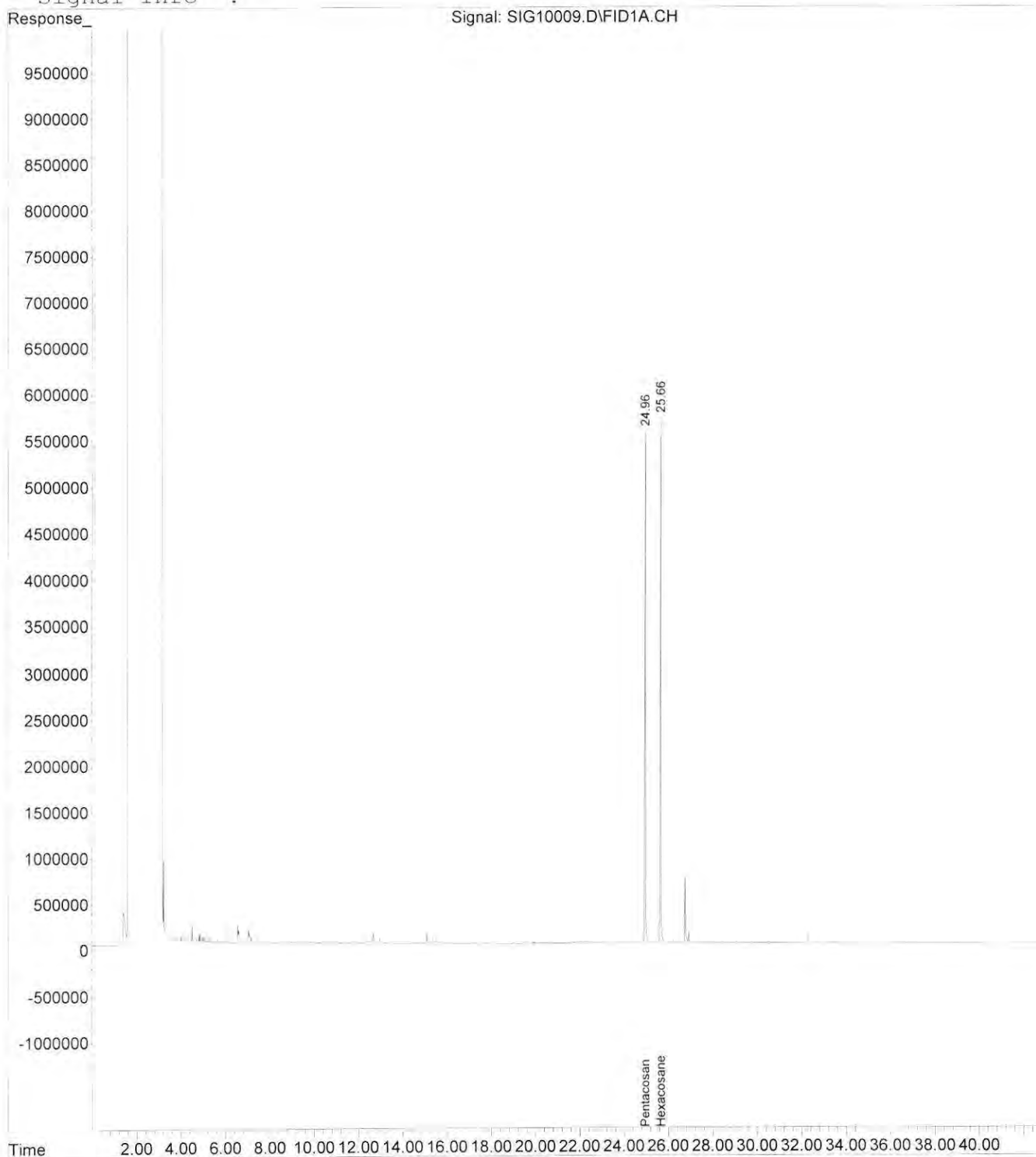
Compound	R.T.	Response	Conc Units

Internal Standards			
1) I Pentacosane	24.96	119375360	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.66	110646633	46.019 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	92.04%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10009.D Vial: 8
Acq On : 02 Feb 2021 23:21 Operator: ARC
Sample : WBA0800-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 8:07 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10010.D Vial: 9
Acq On : 03 Feb 2021 00:16 Operator: ARC
Sample : BBA0792-MS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:36 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

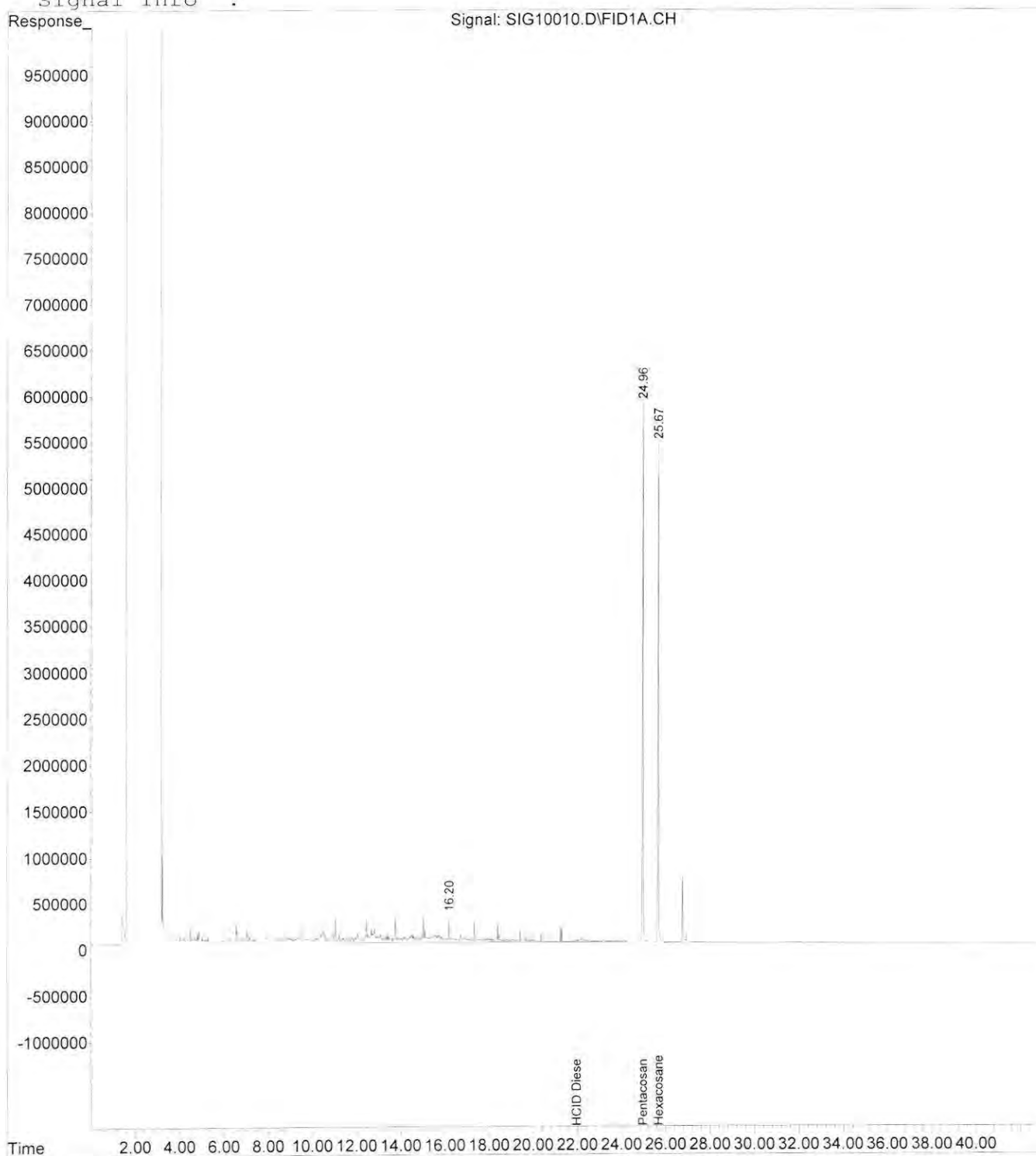
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.96	123526292	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.67	123769973	49.747 ppm
Spiked Amount 50.000	Range 50 - 150	Recovery =	99.49%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	21.97	258939429	180.173 ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10010.D Vial: 9
Acq On : 03 Feb 2021 00:16 Operator: ARC
Sample : BBA0792-MS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 5 8:23 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10011.D Vial: 10
Acq On : 03 Feb 2021 1:12 Operator: ARC
Sample : BBA0792-MSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:37 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

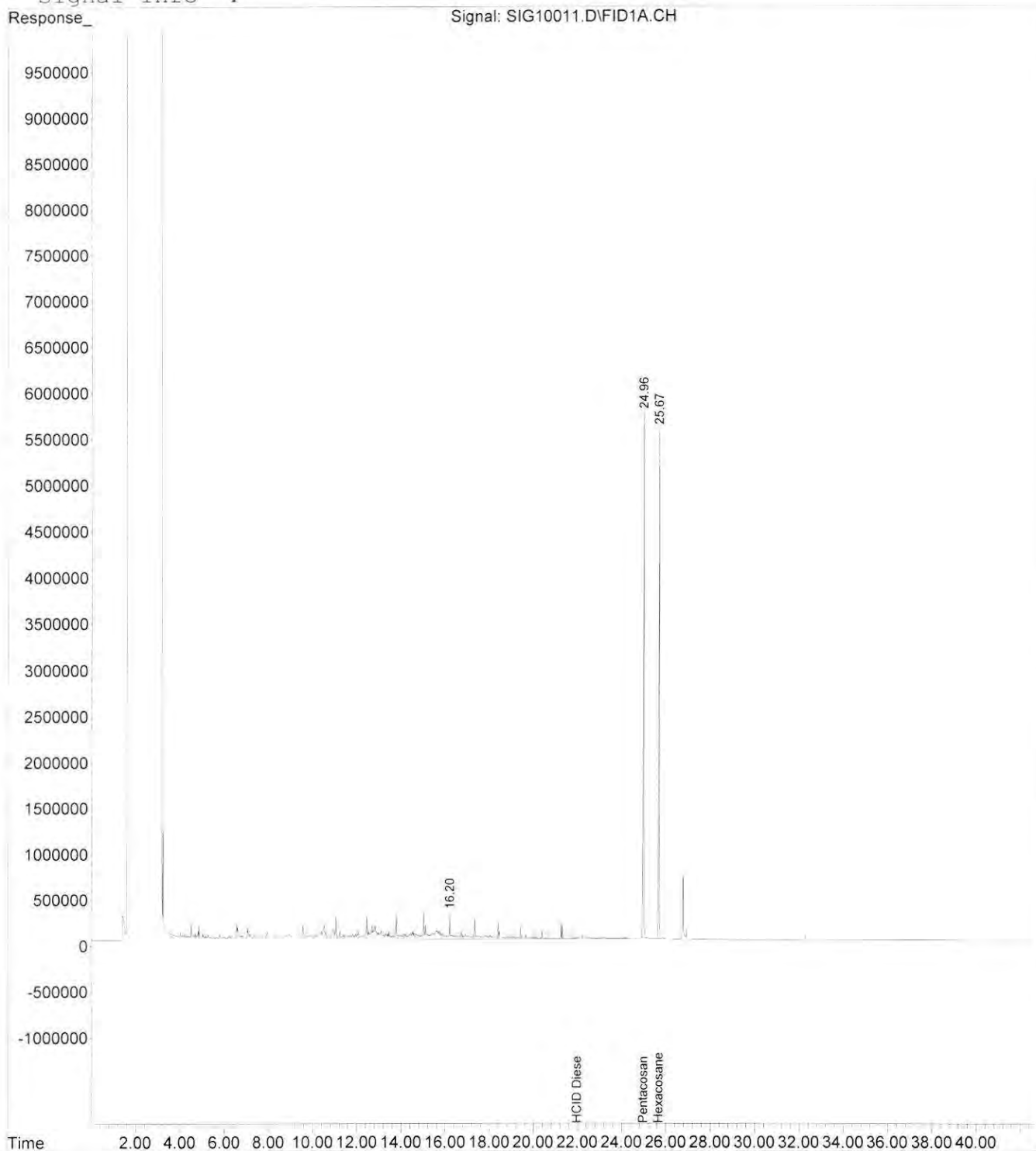
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	115799314	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	113010161	48.453 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 96.91%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	21.97	241460942	179.222 ppm	
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10011.D Vial: 10
Acq On : 03 Feb 2021 1:12 Operator: ARC
Sample : BBA0792-MSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 5 8:23 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10012.D Vial: 11
Acq On : 03 Feb 2021 2:07 Operator: ARC
Sample : WBA0800-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:38 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

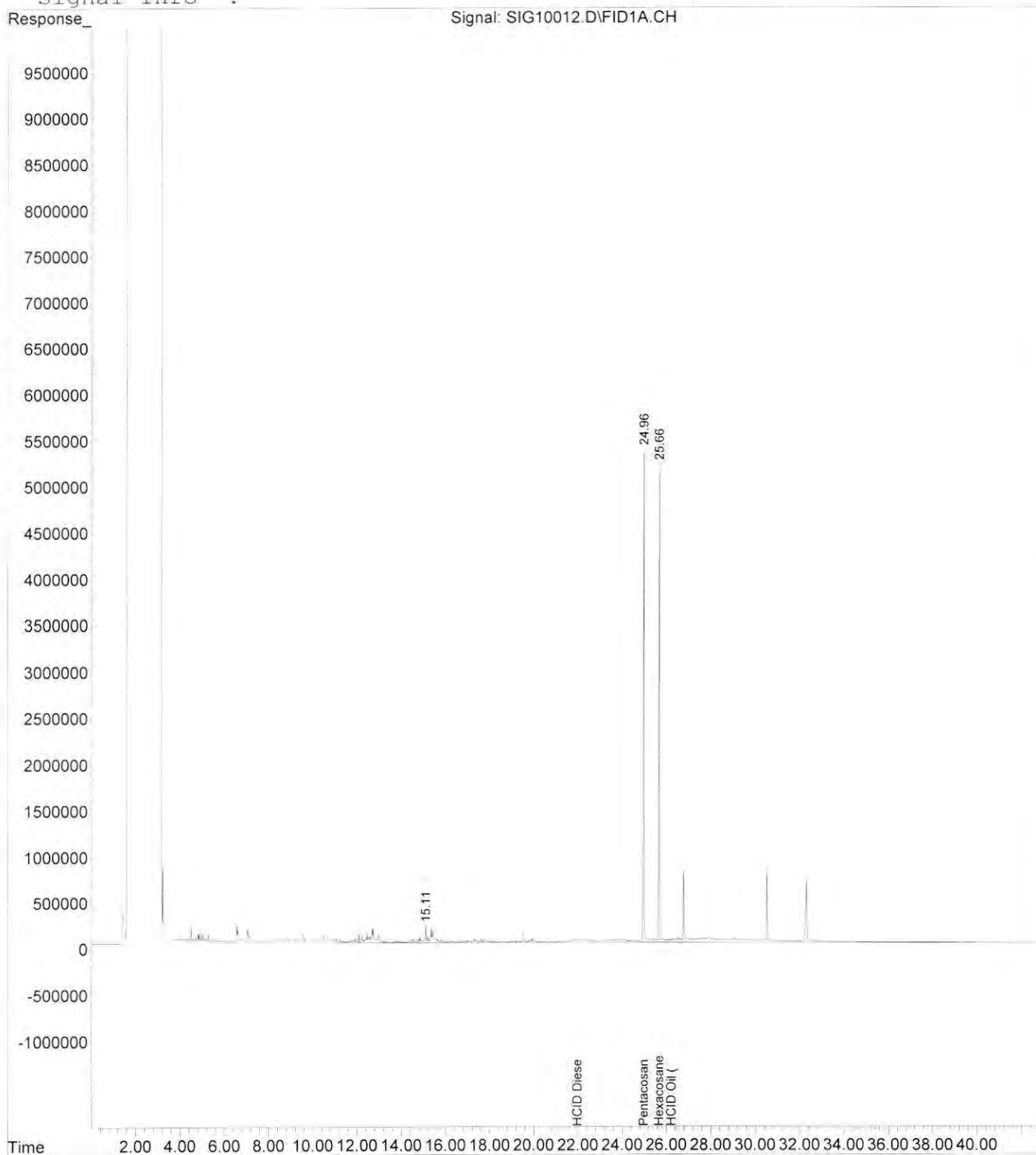
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	115140603	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.66	105415045	45.455 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 90.91%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	21.97	147961919	110.452 ppm	
8) h HCID Oil (>C14)	26.20	206769902	196.304 ppm	

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10012.D Vial: 11
Acq On : 03 Feb 2021 2:07 Operator: ARC
Sample : WBA0800-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 8:11 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10014.D Vial: 13
Acq On : 03 Feb 2021 3:57 Operator: ARC
Sample : WBA0800-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:40 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

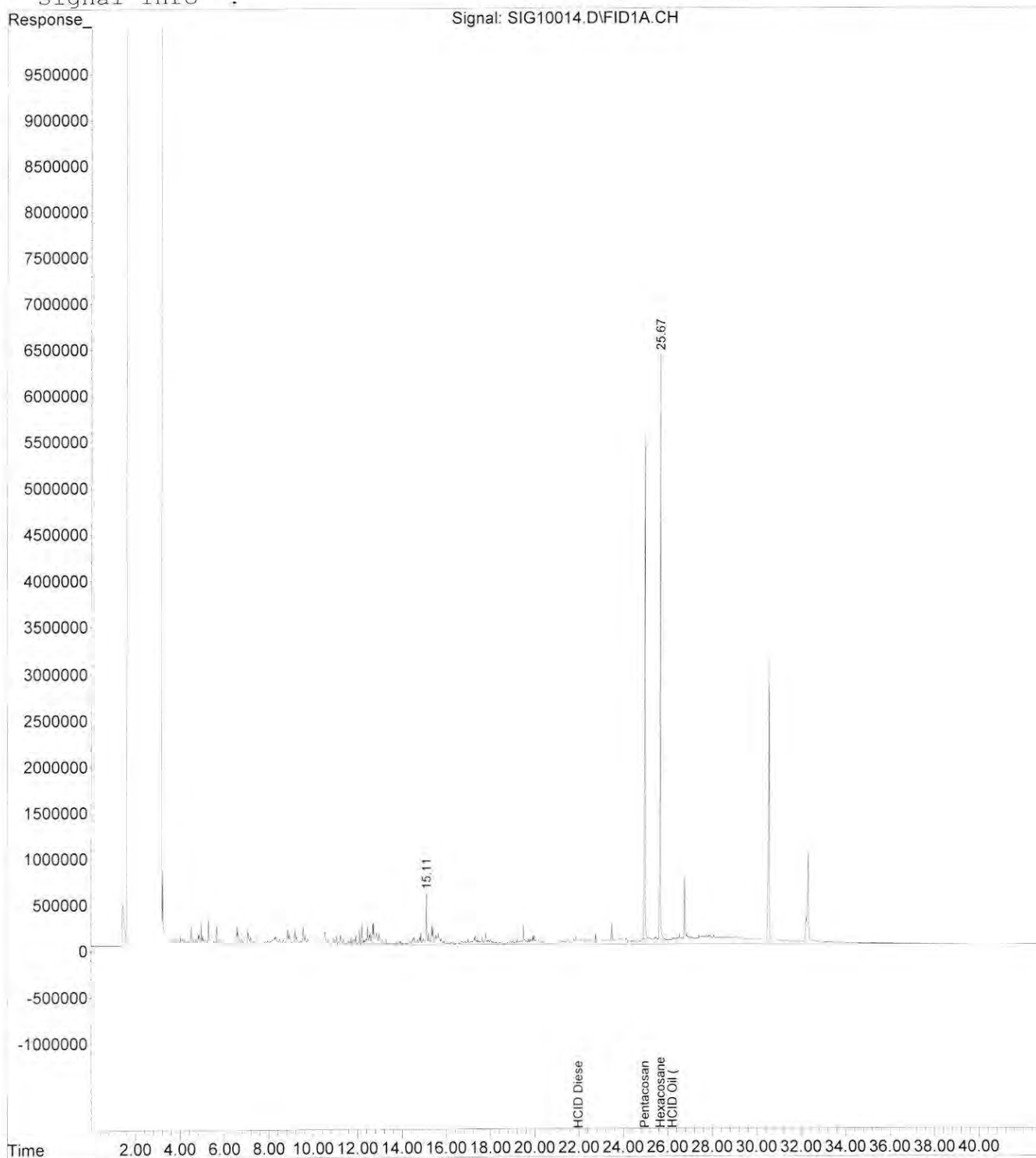
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	127169655	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	122007302	47.634 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 95.27%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	21.97	279864413	189.154 ppm	
8) h HCID Oil (>C14)	26.20	420698610	361.624 ppm	

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10014.D Vial: 13
Acq On : 03 Feb 2021 3:57 Operator: ARC
Sample : WBA0800-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 8:25 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10015.D Vial: 14
Acq On : 03 Feb 2021 4:52 Operator: ARC
Sample : WBA0800-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:41 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

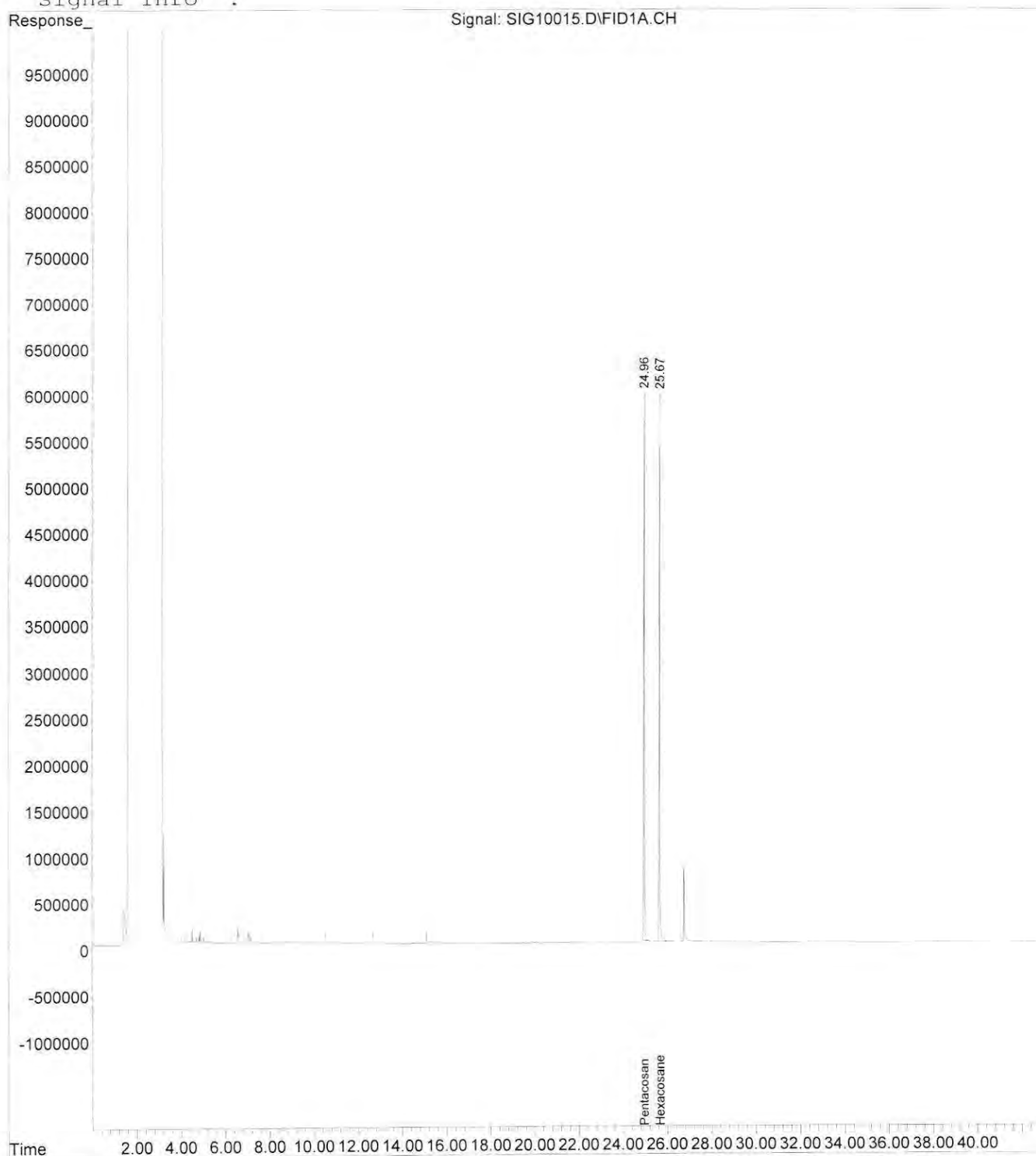
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.96	134399665	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.67	129210102	47.732 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 95.46%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10015.D Vial: 14
Acq On : 03 Feb 2021 4:52 Operator: ARC
Sample : WBA0800-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 8:27 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10016.D Vial: 15
Acq On : 03 Feb 2021 5:48 Operator: ARC
Sample : WBA0800-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:42 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

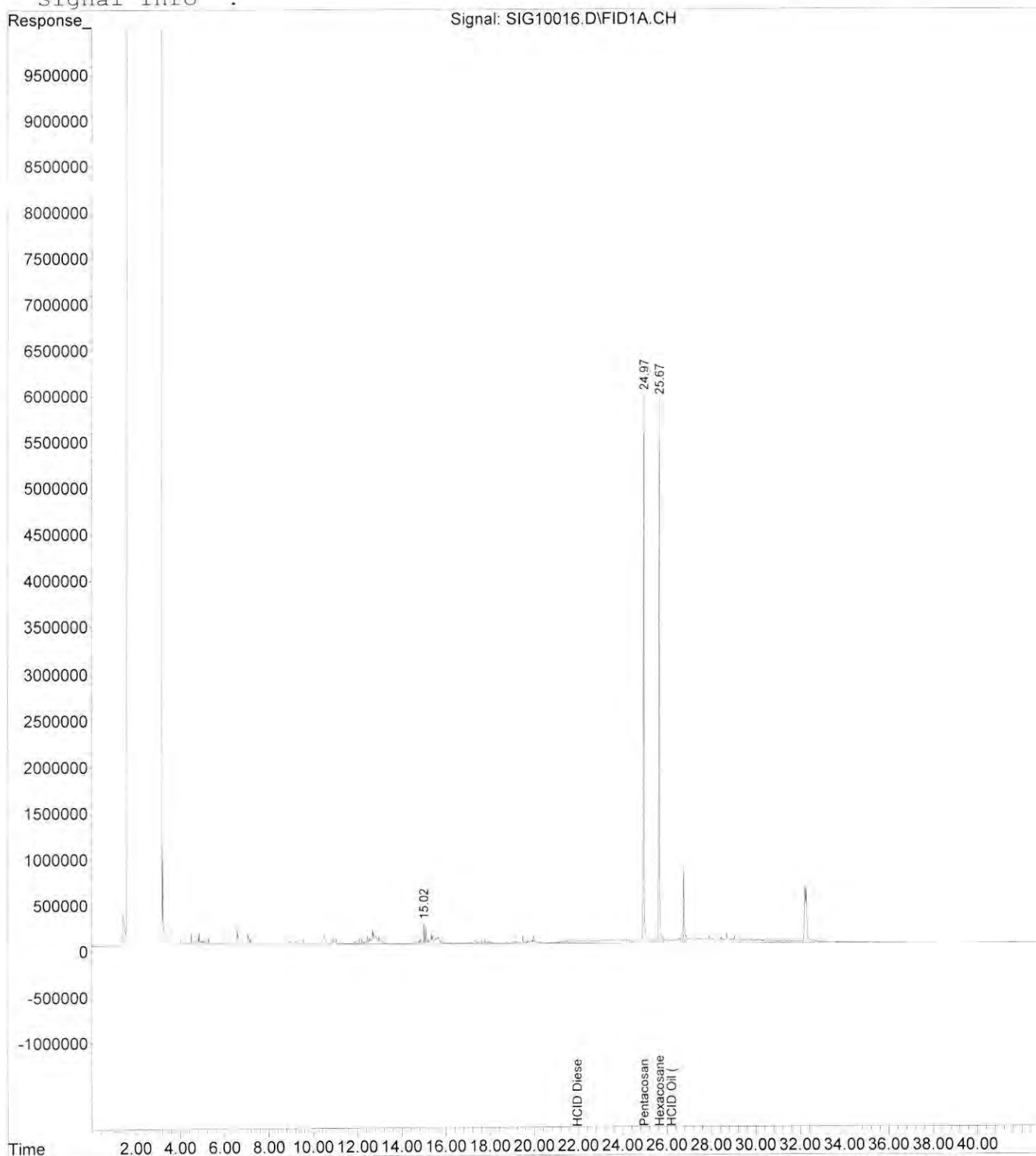
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.97	137333630	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.67	127731967	46.178 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	92.36%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	21.97	162756725	101.862 ppm
8) h HCID Oil (>C14)	26.20	217580811	173.186 ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10016.D Vial: 15
Acq On : 03 Feb 2021 5:48 Operator: ARC
Sample : WBA0800-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 8:27 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10017.D Vial: 16
Acq On : 03 Feb 2021 6:43 Operator: ARC
Sample : WBA0800-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:01:43 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

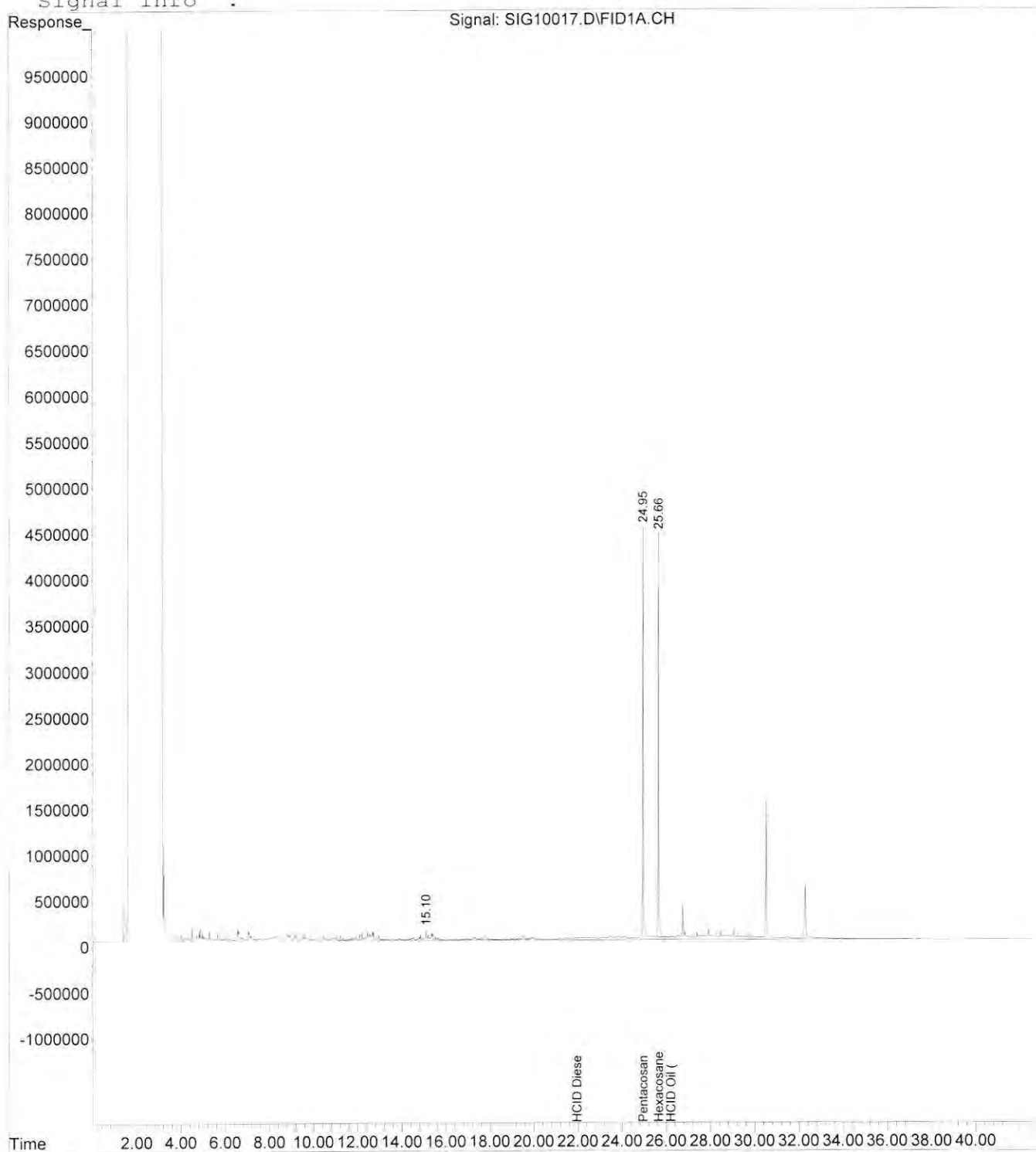
Compound	R.T.	Response	Conc Units

Internal Standards			
1) I Pentacosane	24.95	88467904	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.66	87851522	49.303 ppm m
Spiked Amount	50.000	Recovery	= 98.61%
Range 50 - 150			
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	21.97	125486707	121.917 ppm
8) h HCID Oil (>C14)	26.20	212654777	262.760 ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10017.D Vial: 16
Acq On : 03 Feb 2021 6:43 Operator: ARC
Sample : WBA0800-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 8:28 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10018.D Vial: 17
Acq On : 03 Feb 2021 7:39 Operator: ARC
Sample : WBA0800-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 08:28:44 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

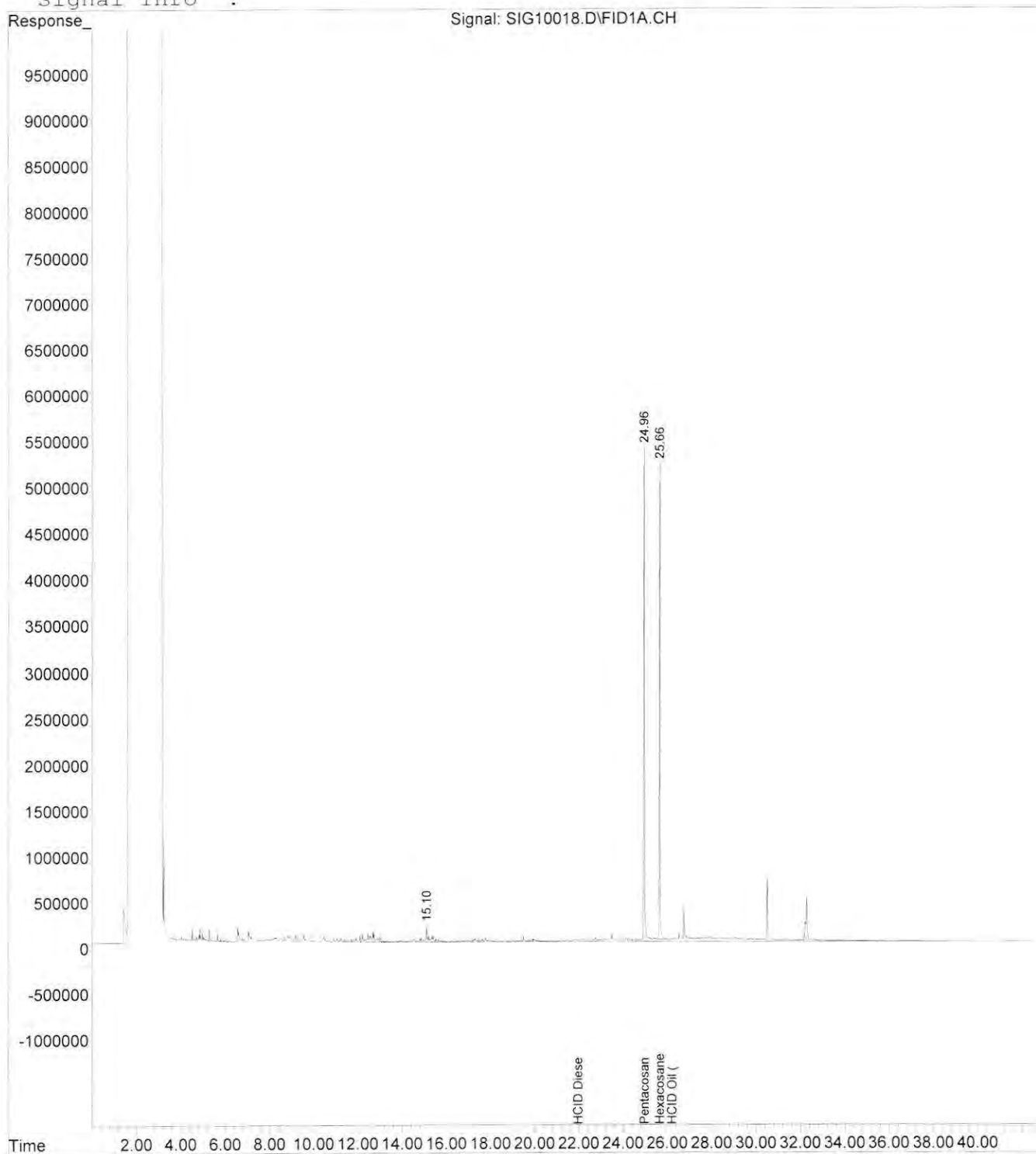
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	120992918	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	25.66	100912516	41.409	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 82.82%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	21.97	120483770	85.589	ppm
8) h HCID Oil (>C14)	26.20	172697529	156.026	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10018.D Vial: 17
Acq On : 03 Feb 2021 7:39 Operator: ARC
Sample : WBA0800-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 8:29 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10019.D Vial: 18
Acq On : 03 Feb 2021 8:35 Operator: ARC
Sample : WBA0800-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 09:34:21 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

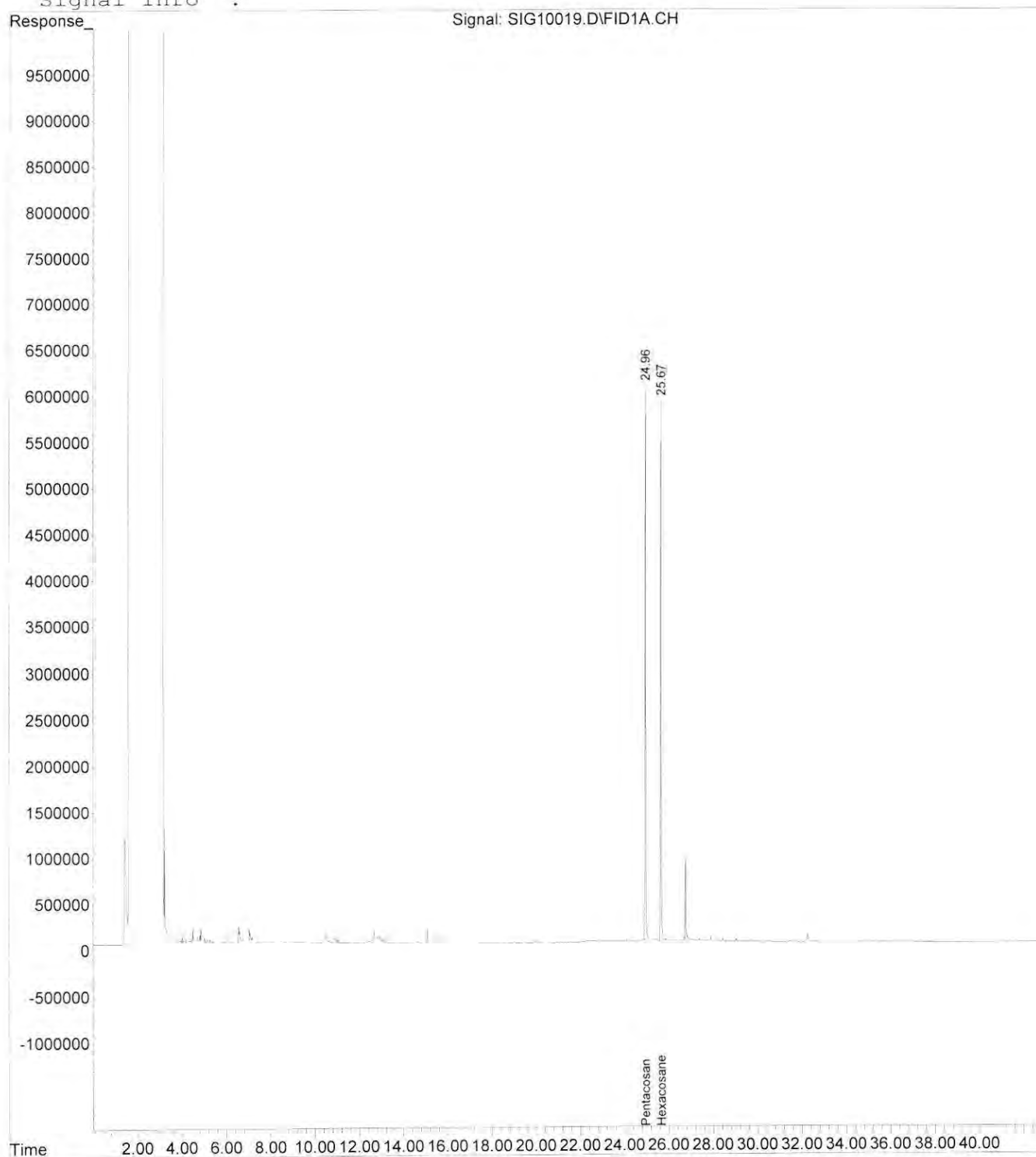
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	129473773	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	123107241	47.208 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 94.42%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10019.D Vial: 18
Acq On : 03 Feb 2021 8:35 Operator: ARC
Sample : WBA0800-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 9:34 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10020.D Vial: 19
Acq On : 03 Feb 2021 9:31 Operator: ARC
Sample : WBA0800-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 10:59:04 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

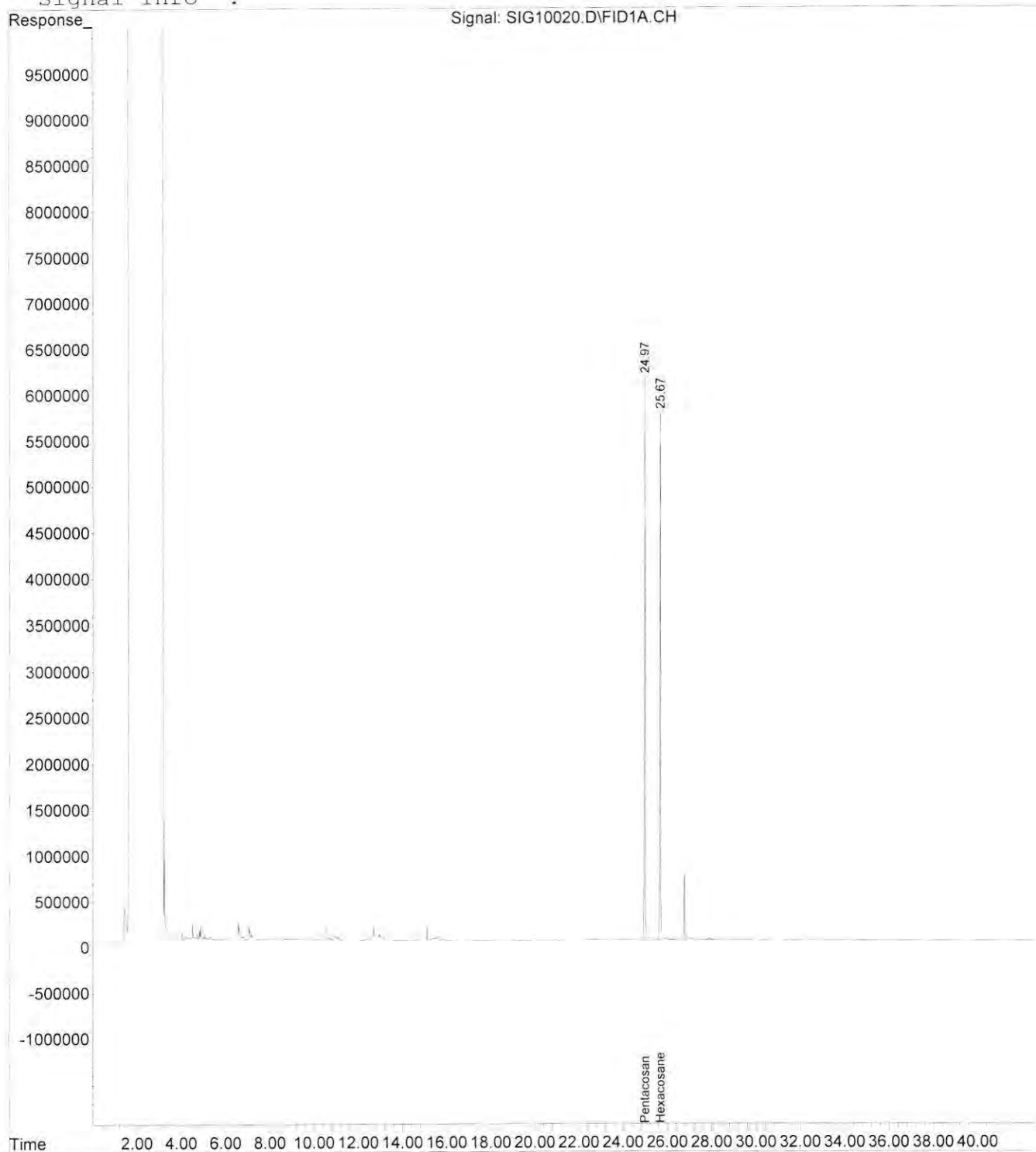
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.97	139863466	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	127596771	45.295 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 90.59%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10020.D Vial: 19
Acq On : 03 Feb 2021 9:31 Operator: ARC
Sample : WBA0800-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 10:59 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10021.D Vial: 20
Acq On : 03 Feb 2021 10:26 Operator: ARC
Sample : WBA0800-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 03 11:09:26 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

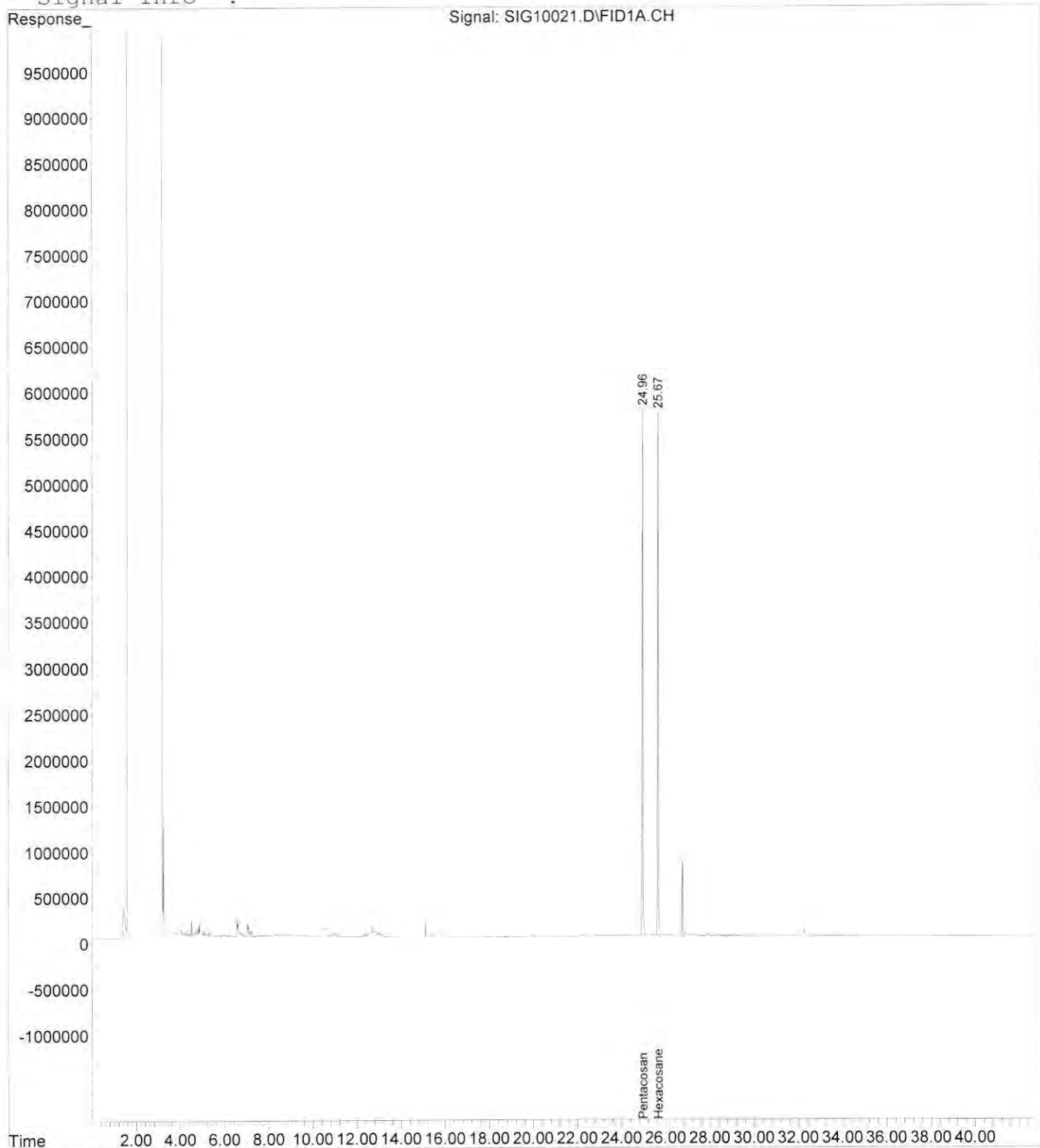
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	134797148	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	129735048	47.785 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 95.57%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10021.D Vial: 20
Acq On : 03 Feb 2021 10:26 Operator: ARC
Sample : WBA0800-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 3 11:10 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10027.D Vial: 21
Acq On : 03 Feb 2021 16:02 Operator: ARC
Sample : WBA0800-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 04 08:00:31 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

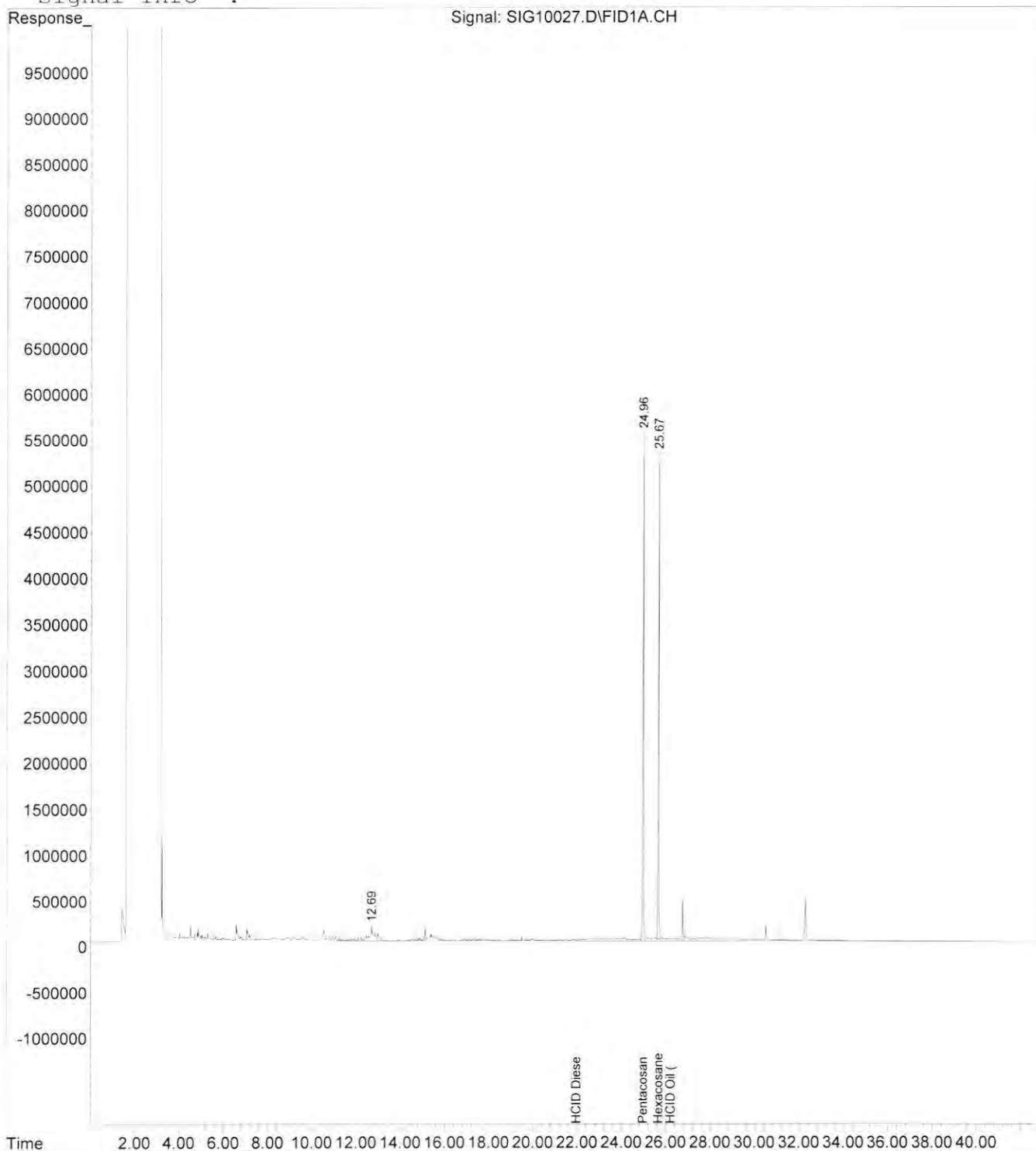
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	121674336	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	113949781	46.497 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 92.99%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	21.97	105606293	74.600 ppm	
8) h HCID Oil (>C14)	26.20	124904363	112.214 ppm	

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10027.D Vial: 21
Acq On : 03 Feb 2021 16:02 Operator: ARC
Sample : WBA0800-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 4 8:04 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10028.D Vial: 22
 Acq On : 03 Feb 2021 16:58 Operator: ARC
 Sample : WBA0800-12 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Feb 04 08:00:32 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jan 27 10:50:26 2021
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

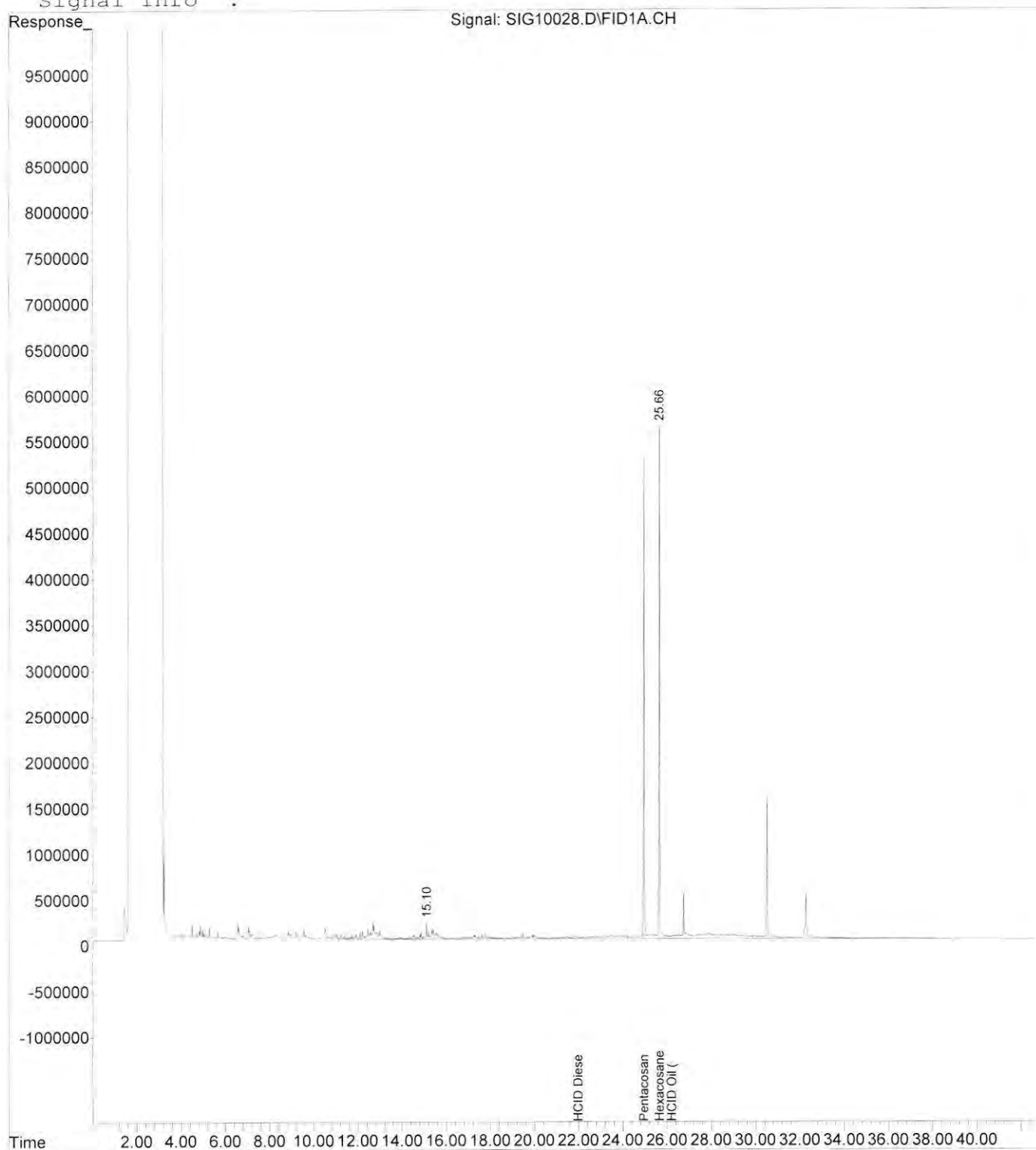
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.95	114217298	50.000	ppm m
System Monitoring Compounds				
2) S Hexacosane	25.66	109958531	47.798	ppm m
Spiked Amount	50.000	Range	50 - 150	Recovery = 95.60%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	21.97	146594945	110.316	ppm
8) h HCID Oil (>C14)	26.20	212436725	203.314	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10028.D Vial: 22
Acq On : 03 Feb 2021 16:58 Operator: ARC
Sample : WBA0800-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 4 8:04 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10029.D Vial: 23
Acq On : 03 Feb 2021 17:53 Operator: ARC
Sample : WBA0800-13 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 05 08:39:21 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

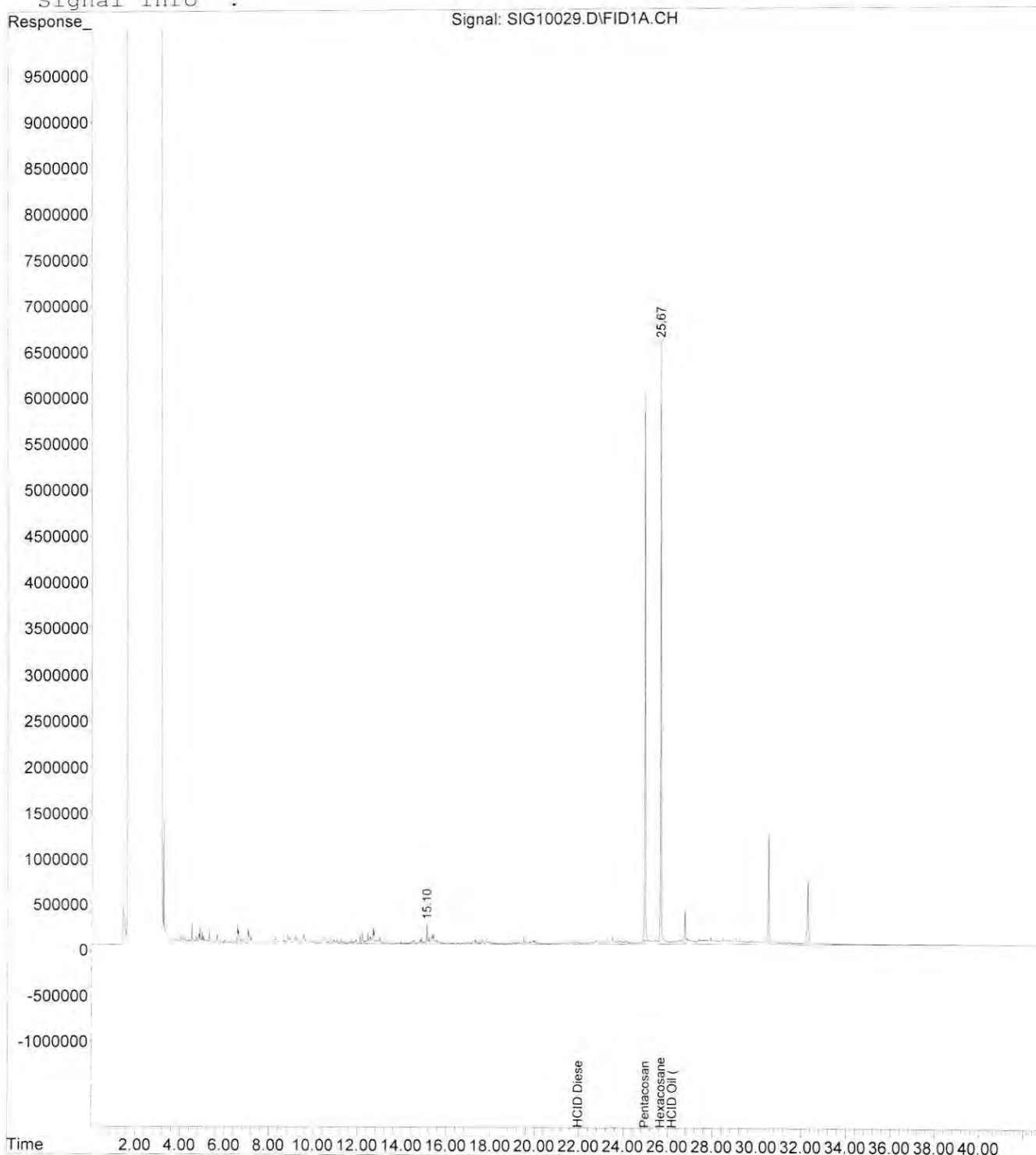
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	136524044	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	132969293	48.356 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 96.71%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	21.97	147189959	92.666 ppm	
8) h HCID Oil (>C14)	26.20	213978016	171.329 ppm	

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10029.D
Acq On : 03 Feb 2021 17:53
Sample : WBA0800-13
Misc :
IntFile : EVENTS1.E
Quant Time: Feb 5 8:43 2021 Quant Results File: 210127LOW.RES

Vial: 23
Operator: ARC
Inst : HP G1530A
Multiplr: 1.00

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10030.D Vial: 24
Acq On : 03 Feb 2021 18:48 Operator: ARC
Sample : WBA0800-14 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 04 08:00:34 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

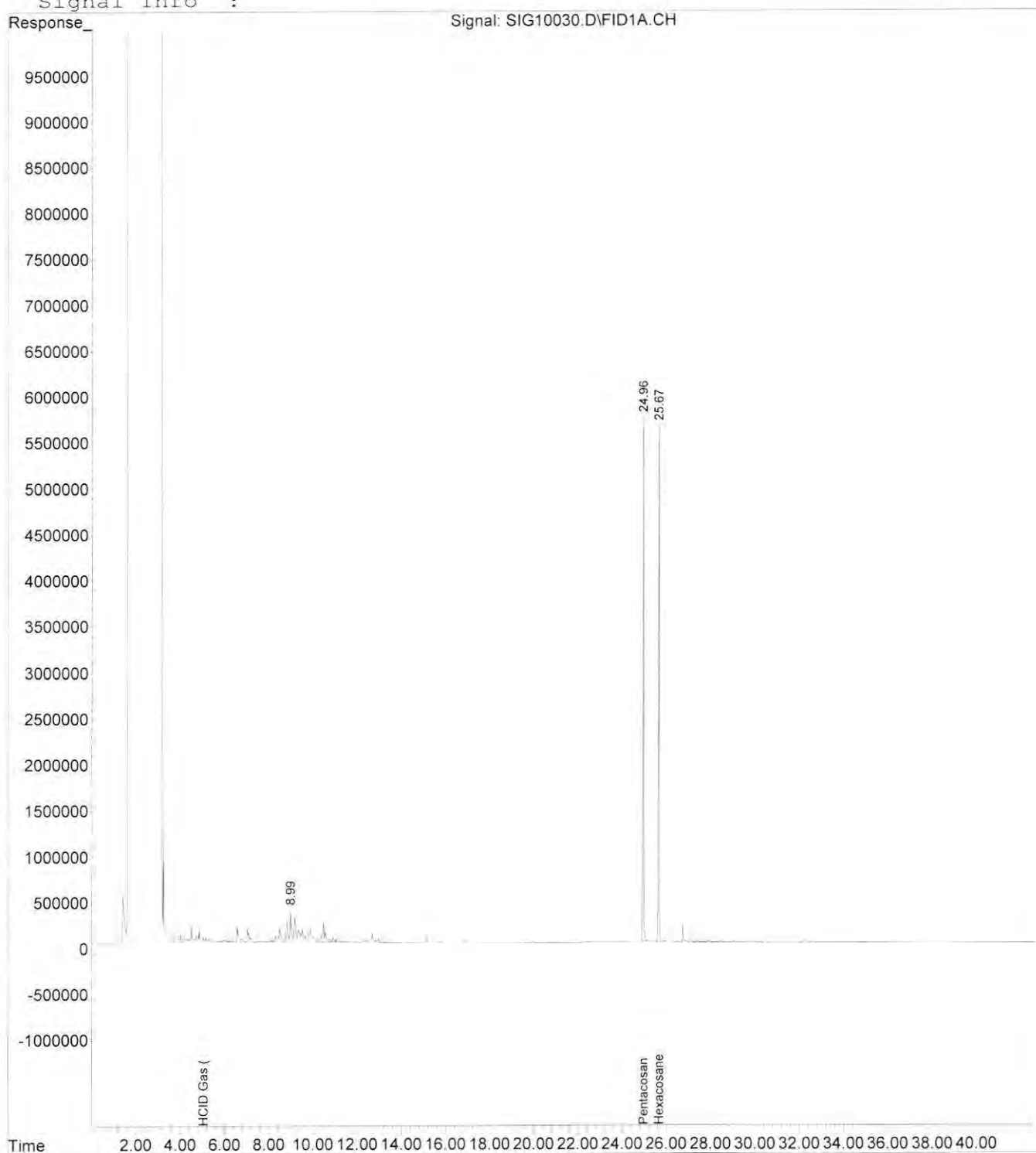
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.96	127922008	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.67	124169986	48.193 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 96.39%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	5.05	108760046	76.057 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10030.D Vial: 24
Acq On : 03 Feb 2021 18:48 Operator: ARC
Sample : WBA0800-14 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 4 8:07 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10031.D Vial: 25
Acq On : 03 Feb 2021 19:43 Operator: ARC
Sample : WBA0800-15 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 04 08:00:35 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

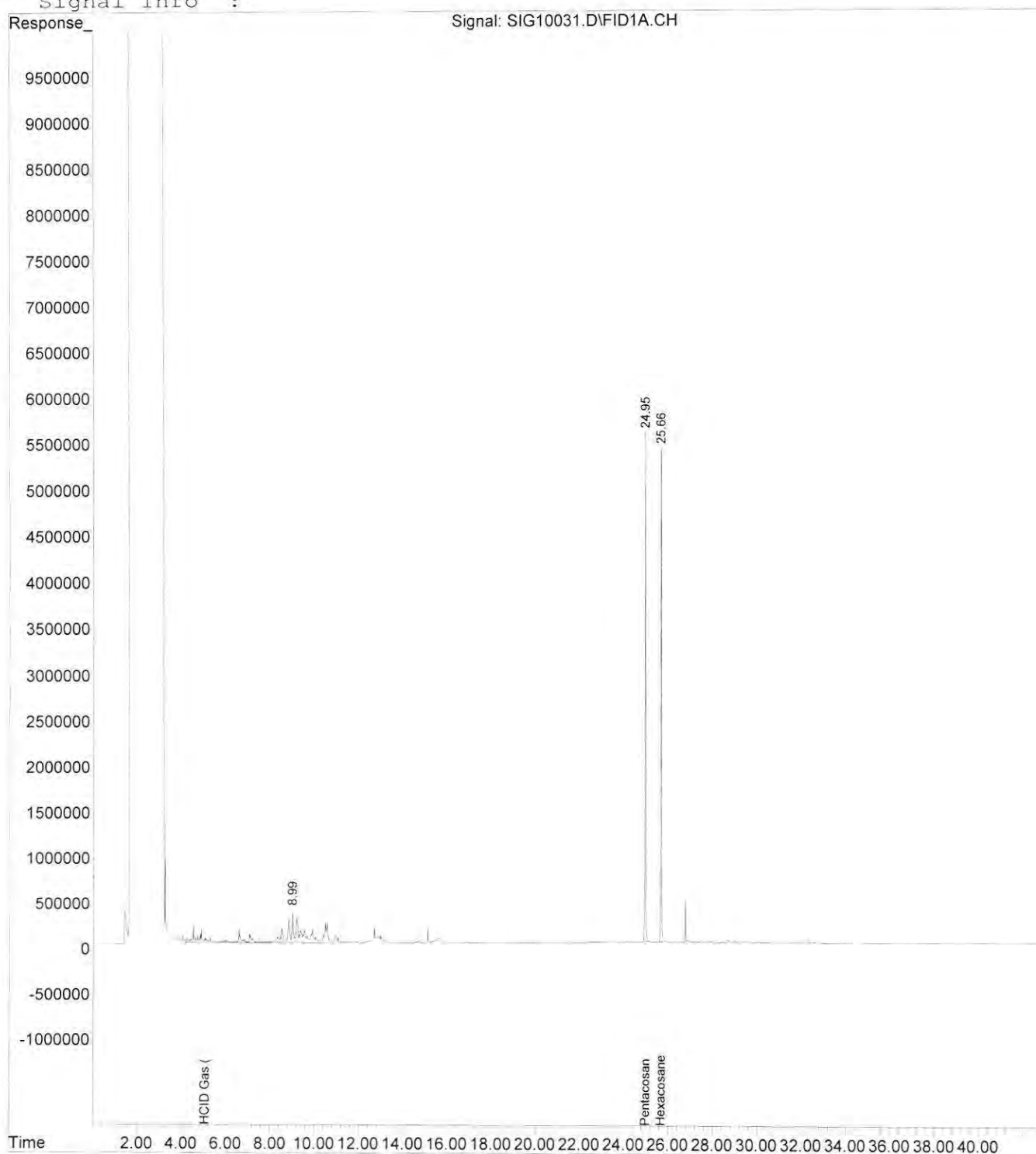
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.95	111512187	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.66	110605034	49.245 ppm m
Spiked Amount	50.000	Recovery	= 98.49%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	5.05	174078714	139.649 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10031.D Vial: 25
Acq On : 03 Feb 2021 19:43 Operator: ARC
Sample : WBA0800-15 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 4 8:07 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10032.D Vial: 26
Acq On : 03 Feb 2021 20:38 Operator: ARC
Sample : WBA0800-16 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 04 08:00:36 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

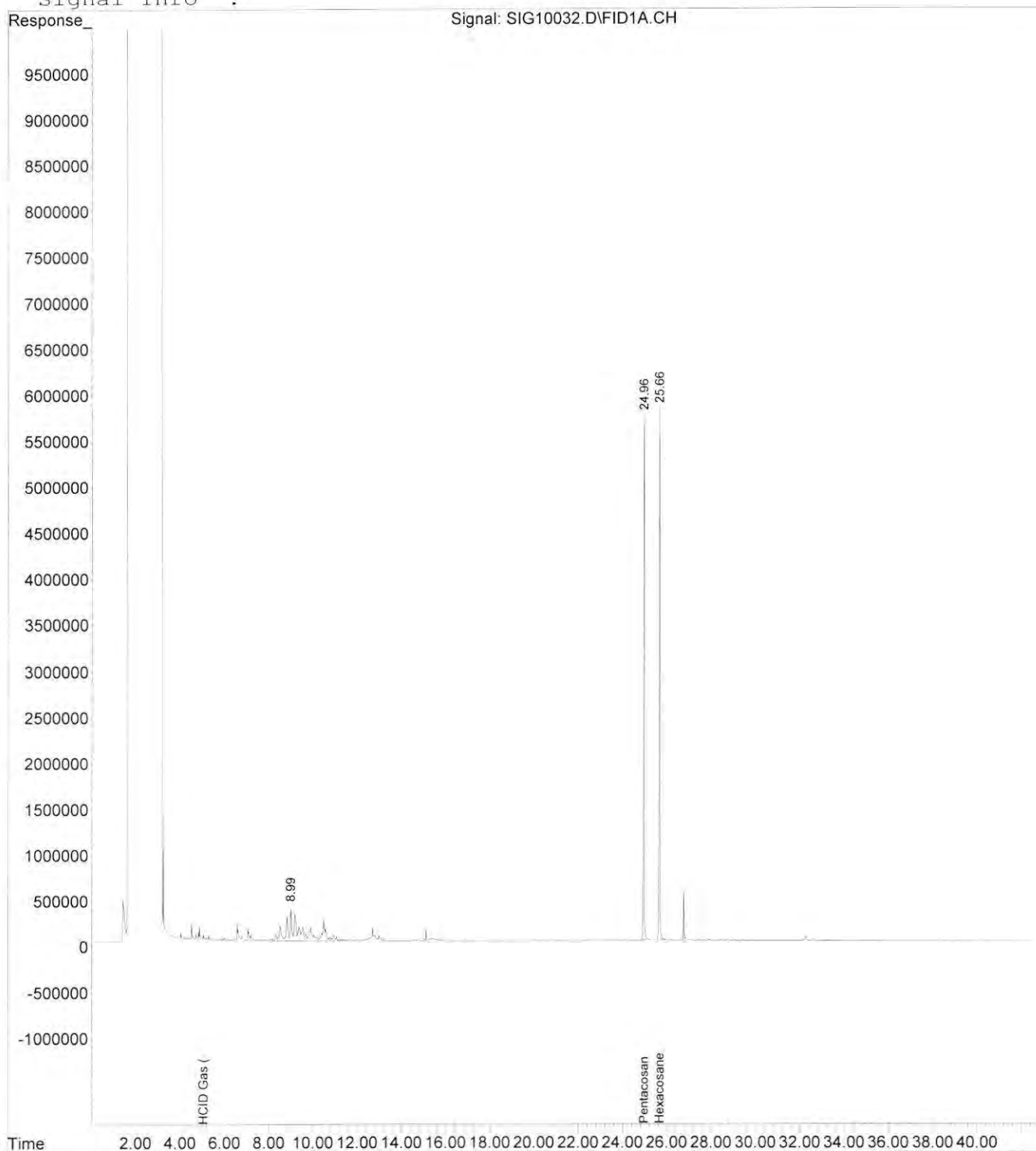
Compound	R.T.	Response	Conc Units

Internal Standards			
1) I Pentacosane	24.96	131583769	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.66	120410805	45.433 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	90.87%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	5.05	132354329	89.981 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10032.D Vial: 26
Acq On : 03 Feb 2021 20:38 Operator: ARC
Sample : WBA0800-16 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 4 8:08 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10033.D Vial: 27
Acq On : 03 Feb 2021 21:33 Operator: ARC
Sample : WBA0800-17 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 04 08:00:37 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

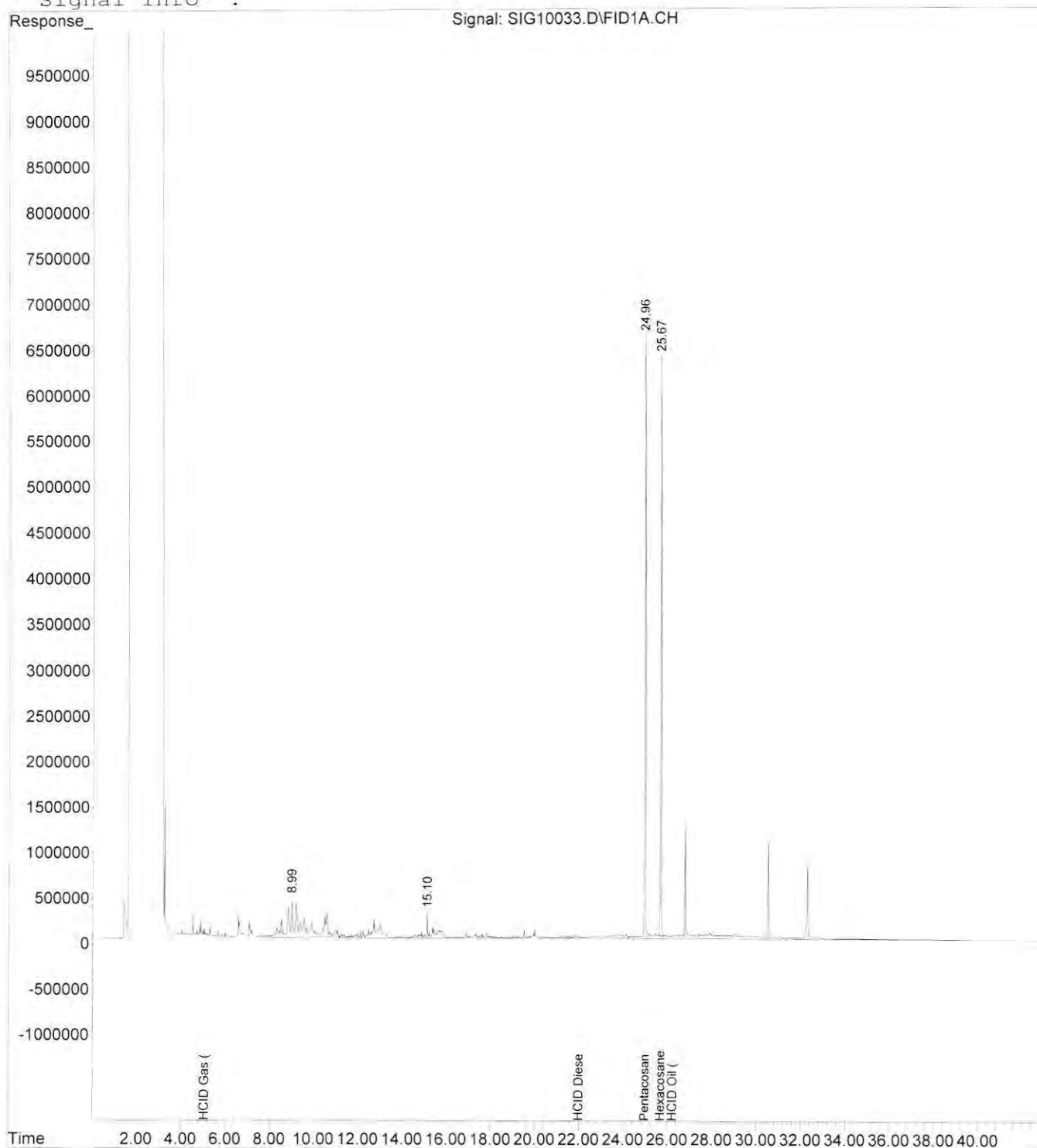
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.96	161047263	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.67	140461325	43.303 ppm m
Spiked Amount	50.000	Range 50 - 150	Recovery = 86.61%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	5.05	166824409	92.666 ppm
7) h HCID Diesel (C12-C14)	21.97	171577864	91.571 ppm
8) h HCID Oil (>C14)	26.20	222957872	151.335 ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10033.D Vial: 27
Acq On : 03 Feb 2021 21:33 Operator: ARC
Sample : WBA0800-17 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 4 8:08 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10034.D Vial: 28
Acq On : 03 Feb 2021 22:28 Operator: ARC
Sample : WBA0800-18 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 04 08:00:38 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

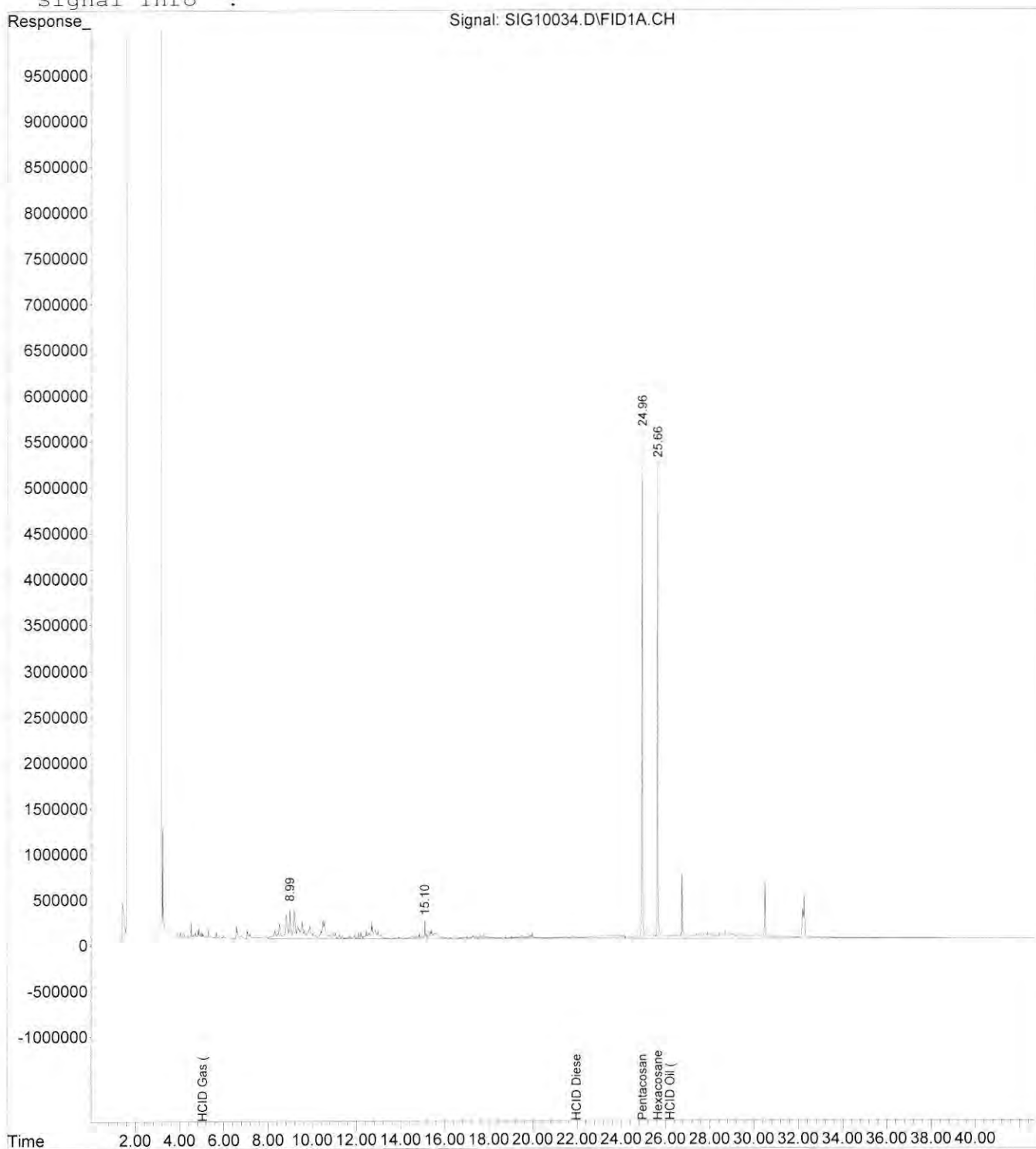
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.96	121158977	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.66	107466118	44.038 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	88.08%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	5.05	135615127	100.131 ppm
7) h HCID Diesel (C12-C14)	21.97	137796043	97.753 ppm
8) h HCID Oil (>C14)	26.20	189489351	170.962 ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10034.D Vial: 28
Acq On : 03 Feb 2021 22:28 Operator: ARC
Sample : WBA0800-18 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 4 8:09 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10035.D Vial: 29
Acq On : 03 Feb 2021 23:23 Operator: ARC
Sample : WBA0800-19 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 04 08:10:07 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

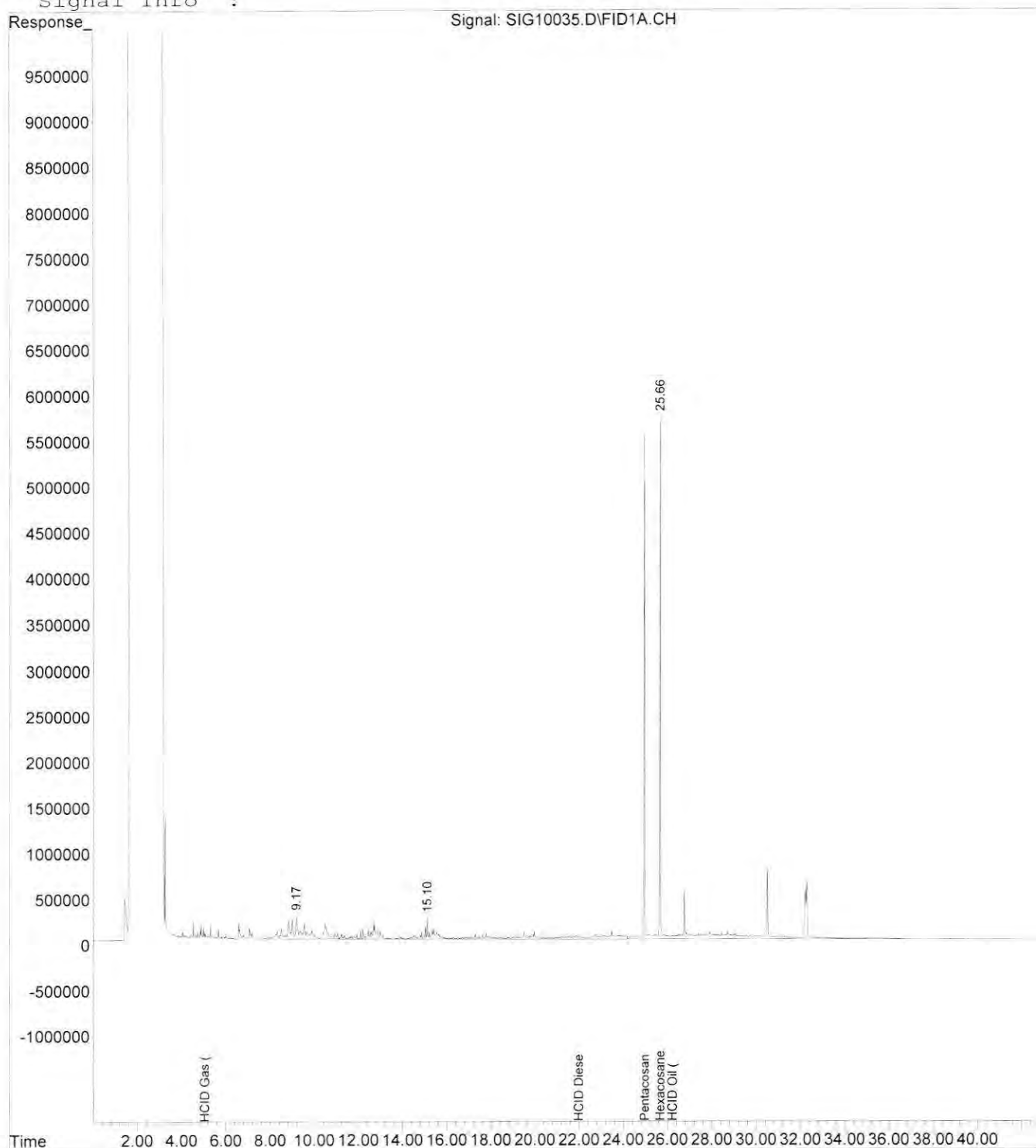
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.96	117315018	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.66	111237921	47.077 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	94.15%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	5.05	108414527	82.670 ppm
7) h HCID Diesel (C12-C14)	21.97	178361028	130.676 ppm
8) h HCID Oil (>C14)	26.20	234083985	218.116 ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10035.D Vial: 29
 Acq On : 03 Feb 2021 23:23 Operator: ARC
 Sample : WBA0800-19 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Feb 4 8:11 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jan 27 10:50:26 2021
 Response via : Multiple Level Calibration
 DataAcq Meth : DXHCID5.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10052.D Vial: 31
Acq On : 04 Feb 2021 15:04 Operator: ARC
Sample : BBB0089-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 04 16:06:34 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

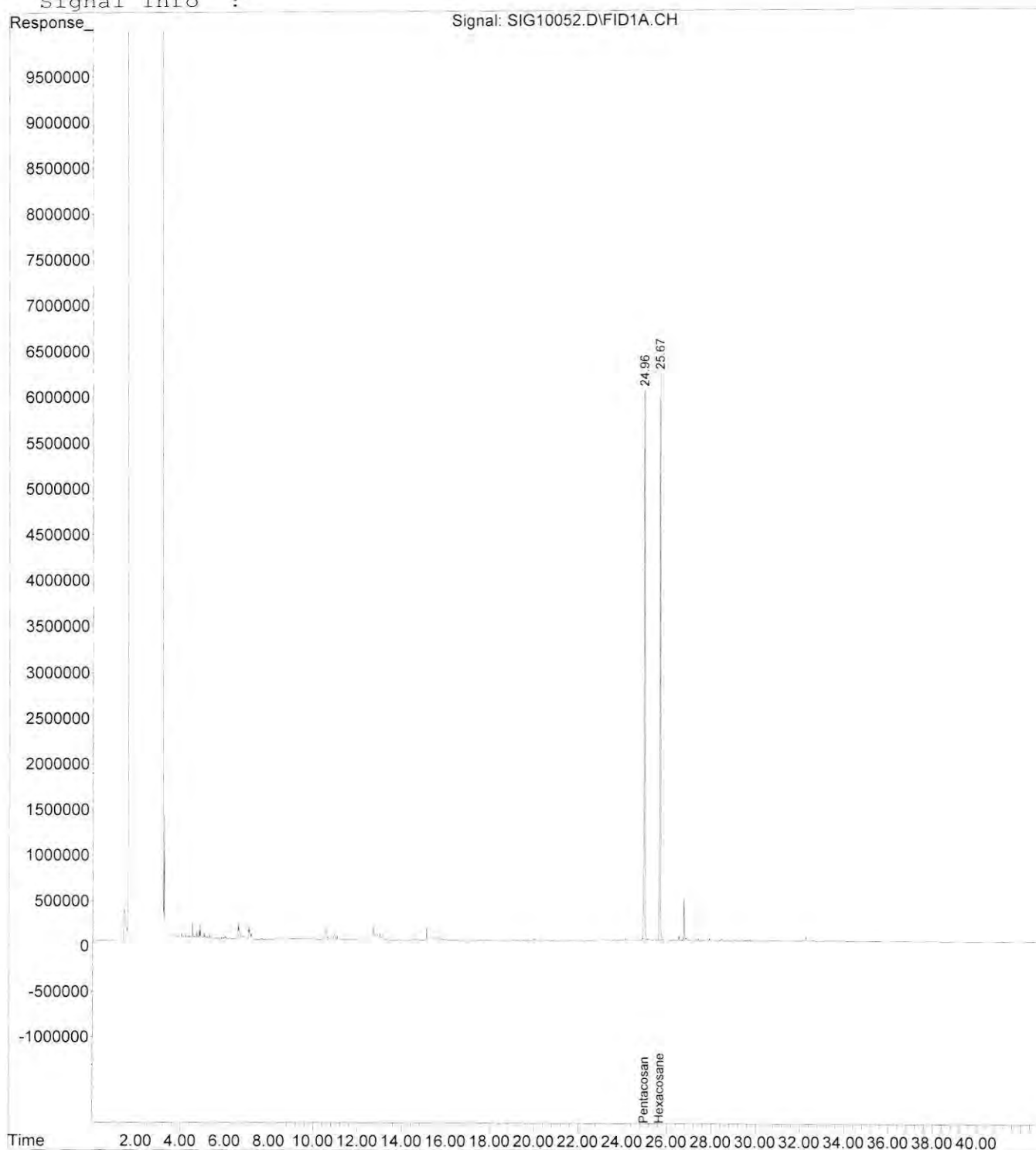
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	139077761	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	139753698	49.890 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 99.78%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10052.D Vial: 31
Acq On : 04 Feb 2021 15:04 Operator: ARC
Sample : BBB0089-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 4 16:07 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10051.D Vial: 30
 Acq On : 04 Feb 2021 14:08 Operator: ARC
 Sample : BBB0089-BS1 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Feb 04 15:23:09 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jan 27 10:50:26 2021
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

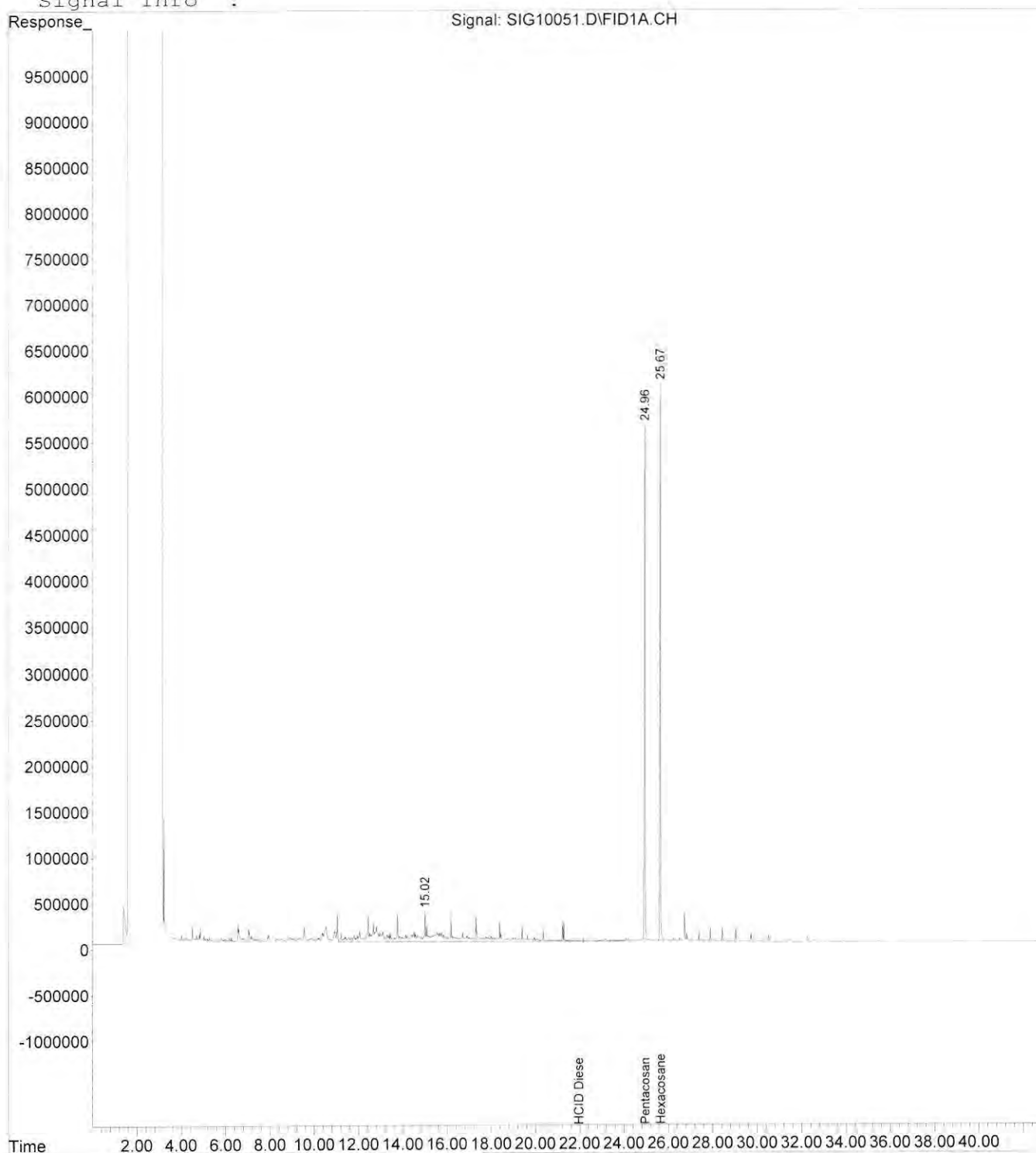
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	129308077	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	129193681	49.605 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 99.21%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	21.97	299339967	198.971 ppm	
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10051.D Vial: 30
Acq On : 04 Feb 2021 14:08 Operator: ARC
Sample : BBB0089-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 4 15:23 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10053.D Vial: 32
 Acq On : 04 Feb 2021 16:00 Operator: ARC
 Sample : WBA0800-20 Inst : HP G1530A
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E
 Quant Time: Feb 05 08:02:48 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
 Title :
 Last Update : Wed Jan 27 10:50:26 2021
 Response via : Initial Calibration
 DataAcq Meth : DXHCID5.M

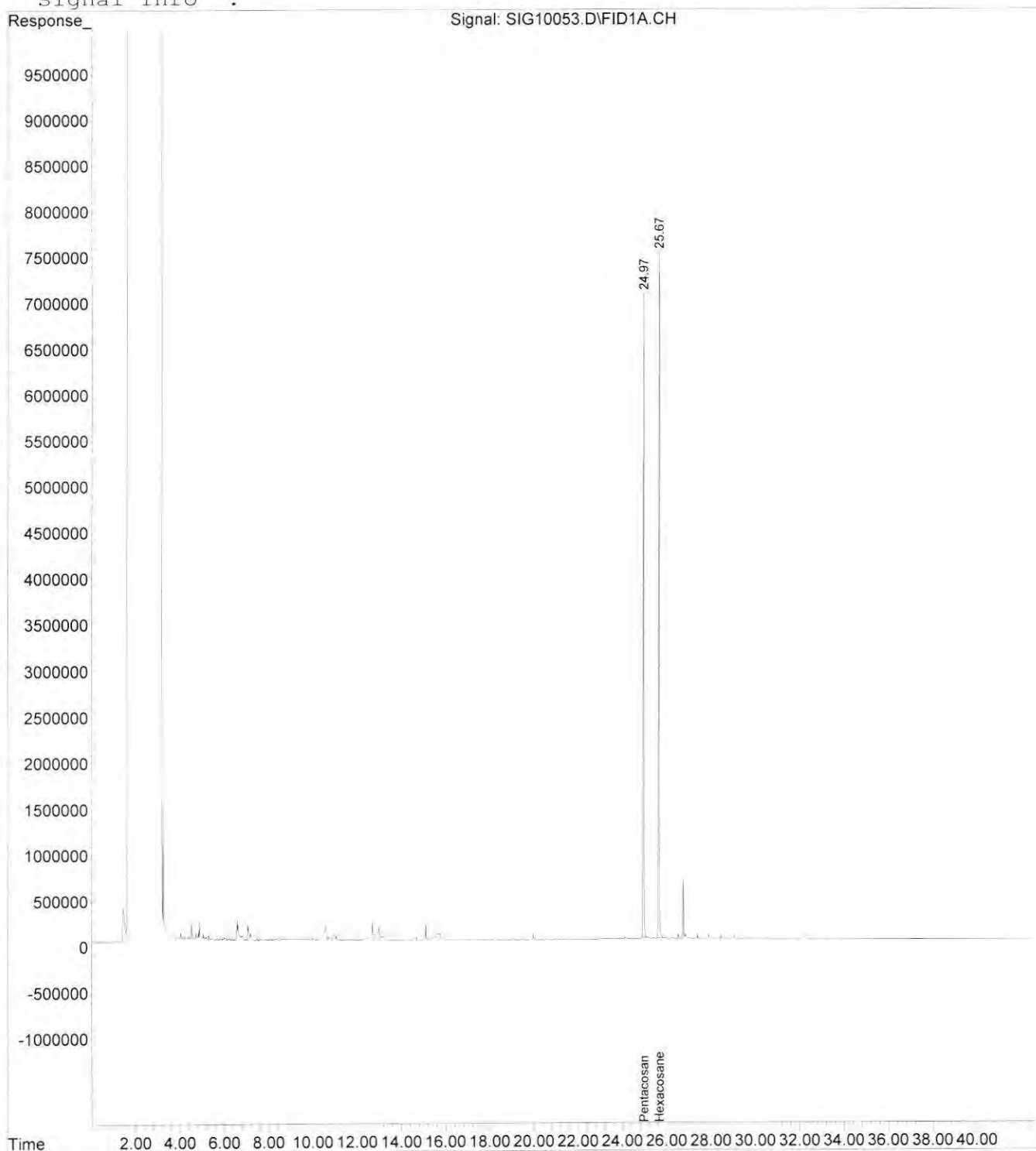
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.97	175551044	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	165670769	46.855 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 93.71%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10053.D Vial: 32
Acq On : 04 Feb 2021 16:00 Operator: ARC
Sample : WBA0800-20 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 5 8:07 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10054.D Vial: 33
Acq On : 04 Feb 2021 16:55 Operator: ARC
Sample : BBB0089-DUP1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 05 08:03:18 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

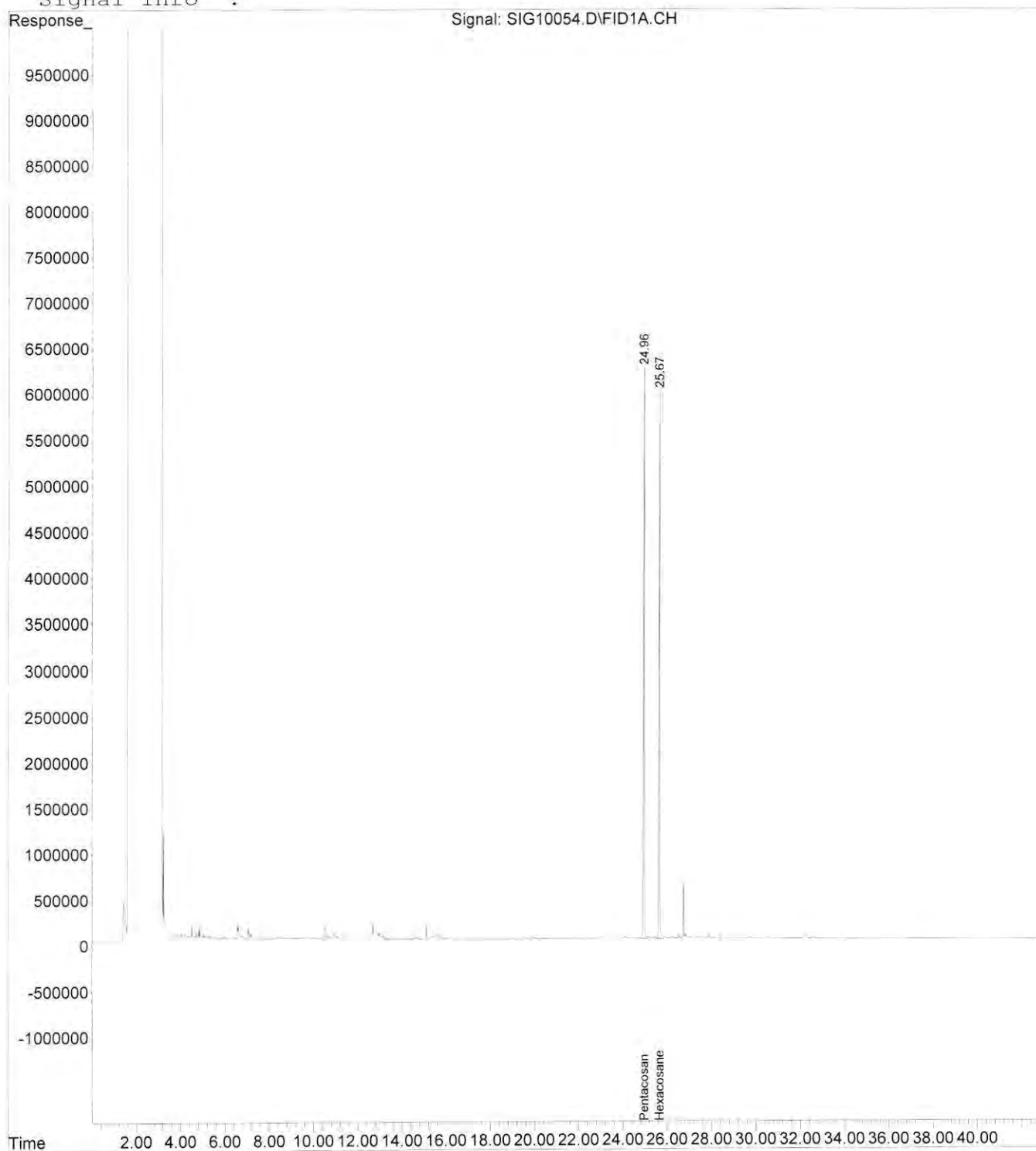
Compound	R.T.	Response	Conc Units

Internal Standards			
1) I Pentacosane	24.96	148028996	50.000 ppm
System Monitoring Compounds			
2) S Hexacosane	25.66	131872880	44.230 ppm
Spiked Amount 50.000	Range 50 - 150	Recovery =	88.46%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D. ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10054.D Vial: 33
Acq On : 04 Feb 2021 16:55 Operator: ARC
Sample : BBB0089-DUP1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 5 8:09 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10055.D Vial: 34
Acq On : 04 Feb 2021 17:51 Operator: ARC
Sample : WBA0800-21 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 05 08:03:19 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

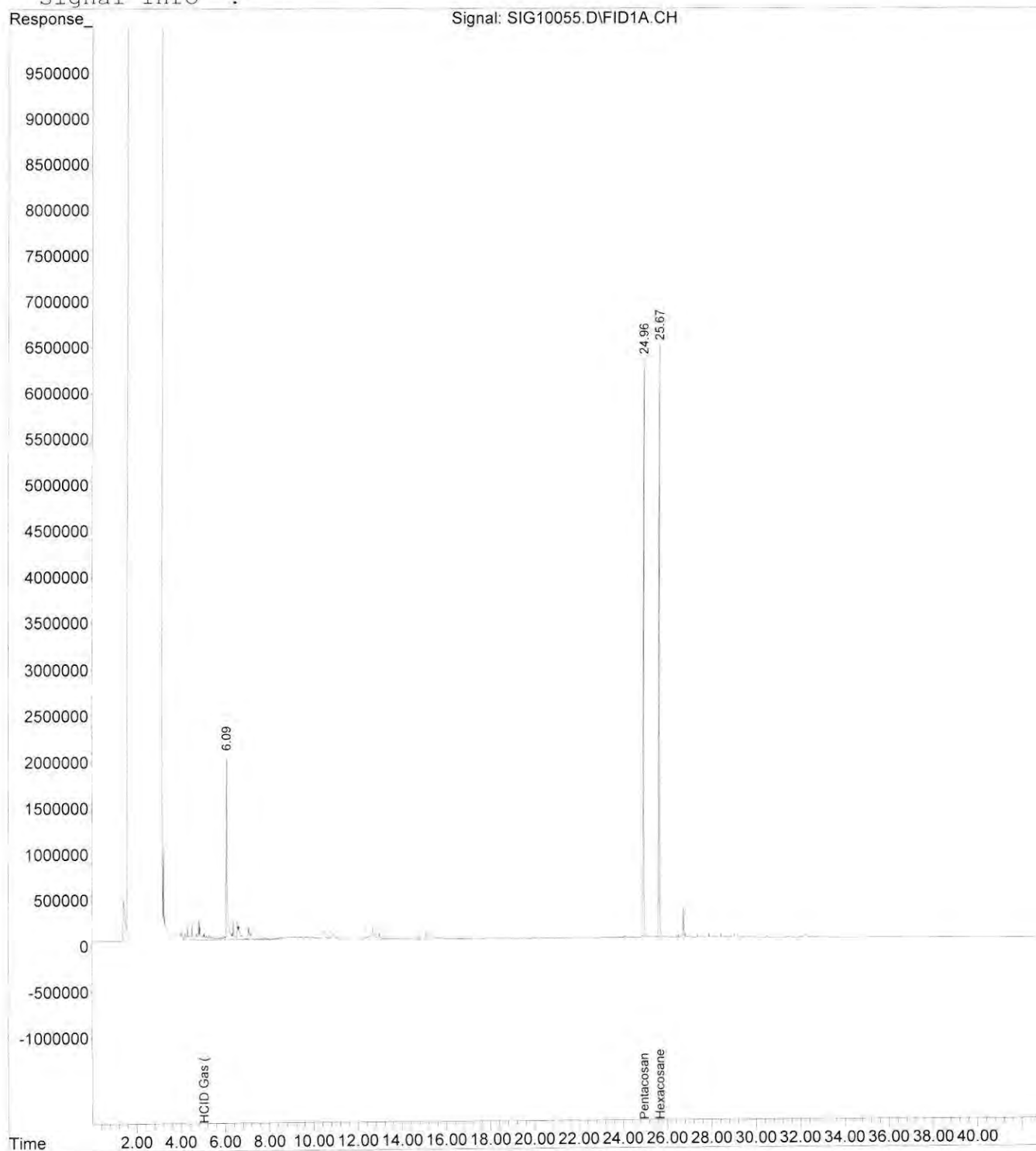
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Pentacosane	24.96	138566869	50.000 ppm m
System Monitoring Compounds			
2) S Hexacosane	25.67	141529949	50.711 ppm m
Spiked Amount 50.000	Range 50 - 150	Recovery =	101.42%
Target Compounds			
3) H TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D. ppm
5) H Mineral Oil	0.00	0	N.D. ppm
6) h HCID Gas (C7-C12)	5.05	127816818	82.517 ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D. ppm
8) h HCID Oil (>C14)	0.00	0	N.D. ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10055.D Vial: 34
Acq On : 04 Feb 2021 17:51 Operator: ARC
Sample : WBA0800-21 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 5 8:10 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10056.D Vial: 35
Acq On : 04 Feb 2021 18:46 Operator: ARC
Sample : WBA0800-22 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 05 08:03:20 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

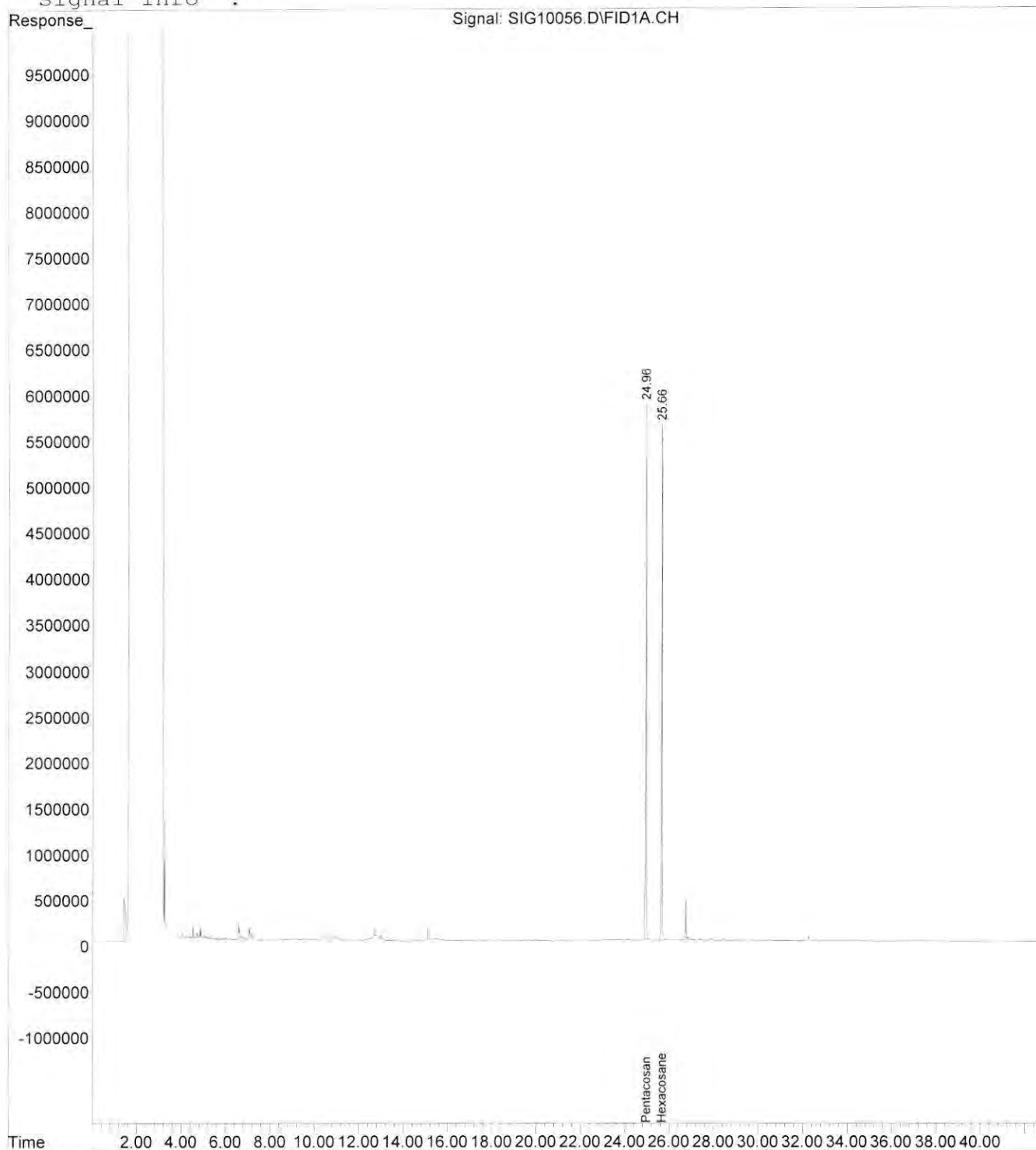
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	124899208	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.66	120906170	48.062 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 96.12%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10056.D Vial: 35
Acq On : 04 Feb 2021 18:46 Operator: ARC
Sample : WBA0800-22 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 5 8:10 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : W:\HPCHEM\1\2021DATA\020221\SIG10057.D Vial: 36
Acq On : 04 Feb 2021 19:41 Operator: ARC
Sample : WBA0800-23 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 05 08:03:21 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

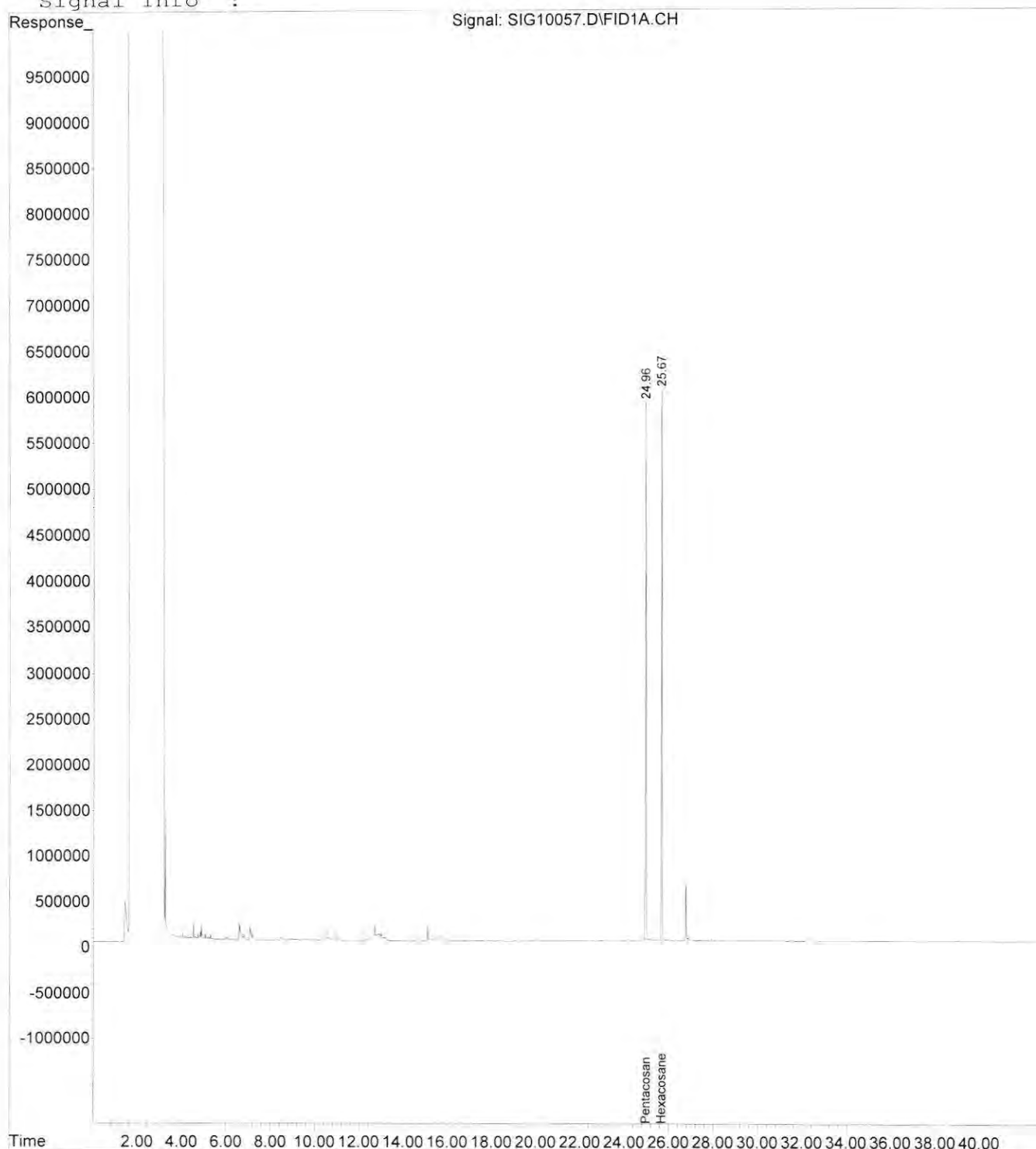
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Pentacosane	24.96	127230614	50.000 ppm	m
System Monitoring Compounds				
2) S Hexacosane	25.67	125787995	49.086 ppm	m
Spiked Amount	50.000	Range	50 - 150	Recovery = 98.17%
Target Compounds				
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm
4) H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm
5) H Mineral Oil	0.00	0	N.D.	ppm
6) h HCID Gas (C7-C12)	0.00	0	N.D.	ppm
7) h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm
8) h HCID Oil (>C14)	0.00	0	N.D.	ppm

Data File : W:\HPCHEM\1\2021DATA\020221\SIG10057.D Vial: 36
Acq On : 04 Feb 2021 19:41 Operator: ARC
Sample : WBA0800-23 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Feb 5 8:11 2021 Quant Results File: 210127LOW.RES

Quant Method : W:\HPCHEM\1\METHODS\210127LOW.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 27 10:50:26 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



TSS (SM 2540D/EPA 160.2) - TS (SM 2540B)

Anatek Labs, Inc. Spokane

Sample	ID #	Temp	Filter Wt #1 (g)	Filter Wt #2 (g)	mLs used	Dry Weight #1	Dry Weight #2**	IResult (mg/L)	FResult (mg/L)	Date/time	Initials	QC Date & Initials	%
BLANK	1	105°	0.1156	0.1162	1000	0.1161	0.1161	21	21	1/29/21	BAS	2/3/21	
100 ppm LFB	2		0.1161	0.1167	100	0.1261	0.1260	93	93	2:55 PM		1/25	93
MBA0521-01	3		0.1161	0.1166	25	0.1302	0.1302	136	544				
MBA0522-01	4		0.1160	0.1172	100	0.1215	0.1215	43	43				
MBA0571-01	5		0.1165	0.1172	50	0.1233	0.1233	61	122				
MBA0572-01	6		0.1167	0.1177	50	0.1239	0.1238	61	122				
MBA0573-01	7		0.1164	0.1175	50	0.1409	0.1408	233	466				
MBA0574-01	8		0.1169	0.1176	50	0.1240	0.1240	64	128				
MBA0576-01	9		0.1164	0.1171	100	0.1310	0.1310	139	139				
1 -02	10		0.1161	0.1167	200	0.1193	0.1193	26	13				
1 -03	11		0.1158	0.1166	200	0.1168	0.1168	2	1				
MBA0578-01	12		0.1168	0.1172	50	0.1222	0.1222	50	100				
1 -02	13		0.1156	0.1164	50	0.1182	0.1182	18	36				
1 -03	14		0.1168	0.1174	20	0.1270	0.1270	96	480				
MBA0580-01	15		0.1169	0.1174	25	0.1201	0.1201	27	108				
MBA0589-03	16		0.1165	0.1173	50	0.1206	0.1205	32	32				
WBA0642-01	17		0.1154	0.1162	50	0.1202	0.1202	40	80				
1 -02	18		0.1167	0.1176	400	0.1191	0.1191	15	3.25				
WBA0644-01	19		0.1165	0.1171	50	0.1308	0.1308	137	274				
WBA0674-01	20		0.1164	0.1169	1000	0.1170	0.1170	1	0.1				
WBA0675-01	21		0.1151	0.1158	100	0.1195	0.1195	37	37				
1 -02	22		0.1170	0.1178	100	0.1189	0.1189	11	11				
BLANK	23		0.1152	0.1162	1000	0.1162	0.1162	21	21				
100 ppm LFB	24		0.1164	0.1169	100	0.1262	0.1262	93	93				93
WBA0675-01 DUP	25		0.1148	0.1152	100	0.1188	0.1188	36	36				97.3
WBA0675-02 MS	26		0.1154	0.1160	50/50	0.1209	0.1209	49	49.98				87
1 MSD	27		0.1150	0.1157	1	0.1209	0.1209	52	52.104				93

**when 3 dry weights taken, calculate result using two closest weights.

QC REQUIREMENTS:

Blank <1ppm, LFB %Rec= 90-110%, MS/MSD %Rec= 80-120%

TSS Reagents	Std. #	Volume Used	Amount Spiked	Balance	Thermometer	Filter Lot
100ppm Cellulose TSS Soln.	210335	100 mL	100 PPM	BAL-06	00627	2002097

Comments:

BBB0043

TSS (SM 2540D/EPA 160.2) - TS (SM 2540B)

Anatek Labs, Inc. Spokane

Sample	ID #	Temp	Filter Wt #1 (g)	Filter Wt #2 (g)	mLs used	Dry Weight #1	Dry Weight #2**	IResult (mg/L)	FResult (mg/L)	Date/time	Initials	QC Date & Initials	%
BLANK	28	1050	0.1164	0.1172	1000	0.1171	0.1171	<1	<1	1/21/21	BAS	2-3-21	
100 ppm LFB	29		0.1162	0.1162	100	0.1258	0.1257	95	95	2/15/21		KAS	95
WBA0685-01	30		0.1160	0.1164	50	0.1188	0.1188	24	48				
1 -02	31		0.1148	0.1151	100	0.1162	0.1162	11	11				
WBA0723-01	32		0.1196	0.1162	50	0.1264	0.1263	101	202				
1 -02	33		0.1176	0.1181	300	0.1189	0.1189	8	2.67				
WBA07825-01	34		0.1167	0.1167	200	0.1187	0.1187	20	10				
1 -02	35		0.1163	0.1169	25	0.1295	0.1294	125	500				
WBA0726-01	36		0.1158	0.1163	200	0.1171	0.1171	8	4				
1 -02	37		0.1154	0.1158	25	0.1231	0.1231	73	292				
WBA0762-01	38		0.1147	0.1152	100	0.1168	0.1168	16	16				
1 -02	39		0.1157	0.1161	50	0.1206	0.1206	45	90				
WBA0763-01	40		0.1174	0.1178	100	0.1248	0.1247	69	69				
1 -02	41		0.1162	0.1167	300	0.1178	0.1178	11	3.67				
WBA0764-01	42		0.1153	0.1157	50	0.1225	0.1225	68	136				
1 -02	43		0.1163	0.1167	200	0.1190	0.1190	23	11.5				
WBA0768-01	44		0.1164	0.1170	25	0.1227	0.1227	57	228				
1 -02	45		0.1166	0.1171	200	0.1201	0.1201	30	15.0				
WBA0773-04	46		0.1165	0.1171	200	0.1181	0.1181	10	5				
WBA0800-01	47		0.1156	0.1159	1000	0.1159	0.1159	<1	<1				
1 -02	48		0.1159	0.1165	1000	0.1165	0.1165	<1	<1				
1 -03	49		0.1159	0.1164	300	0.1181	0.1181	17	5.67				
BLANK	50		0.1156	0.1164	1000	0.1164	0.1164	<1	<1				
100 ppm LFB	51		0.1156	0.1163	100	0.1258	0.1258	95	95				95
WBA0763-02 DUP	52		0.1172	0.1177	300	0.1187	0.1187	10	3.33				90.9
WBA0685-02 MS	53		0.1160	0.1165	50/50	0.1222	0.1222	57	114				103
1 MSD	54		0.1164	0.1169	1	0.1223	0.1223	54	108				97

**when 3 dry weights taken, calculate result using two closest weights.

QC REQUIREMENTS:

Blank <1ppm, LFB %Rec= 90-110%, MS/MSD %Rec= 80-120%

TSS Reagents	Std. #	Volume Used	Amount Spiked	Balance	Thermometer	Filter Lot
100ppm Cellulose TSS Soln.	2100355	100 mL	100 PPM	BAL-26	00627	2002097

Comments:

BBB0043

TSS (SM 2540D/EPA 160.2) - TS (SM 2540B)

Anatek Labs, Inc. Spokane

Sample	ID #	Temp	Filter Wt #1 (g)	Filter Wt #2 (g)	mLs used	Dry Weight #1	Dry Weight #2**	IResult (mg/L)	FResult (mg/L)	Date/time	Initials	QC Date & Initials	%
BLANK	95	1050	0.1162	0.1168	1000	0.1168	0.1168	<1	<1	1/29/21	BAS	2/3/21	
100 ppm LFB	96		0.1167	0.1173	100	0.1270	0.1269	96	96	2:15PM		KAS	96
WBA0800-04	97		0.1174	0.1179	200	0.1345	0.1345	166	83				
-05	98		0.1164	0.1169	1000	0.1230	0.1230	61	6.10				
-06	99		0.1166	0.1173	500	0.1228	0.1228	65	11.0				
-07	60		0.1161	0.1169	500	0.1204	0.1204	35	7				
-08	61		0.1164	0.1171	700	0.1200	0.1200	29	4.14				
-09	62		0.1169	0.1176	300	0.1189	0.1189	13	4.33				
-10	63		0.1154	0.1160	500	0.1236	0.1235	75	15				
-11	64		0.1157	0.1162	400	0.1182	0.1182	20	5				
-12	65		0.1161	0.1168	500	0.1201	0.1201	33	6.6				
-13	66		0.1165	0.1170	500	0.1228	0.1228	98	11.6				
-14	67		0.1170	0.1173	500	0.1222	0.1221	48	9.6				
-15	68		0.1166	0.1170	200	0.1289	0.1288	58	29				
-16	69		0.1171	0.1171	500	0.1210	0.1210	39	7.8				
-17	70		0.1158	0.1160	1000	0.1168	0.1168	8	0.8				
-18	71		0.1155	0.1159	100	0.1242	0.1242	83	83				
-19	72		0.1171	0.1178	500	0.1229	0.1229	51	10.2				
-20	73		0.1166	0.1170	700	0.1227	0.1227	57	8.14				
-21	74		0.1164	0.1169	500	0.1258	0.1258	89	17.8				
-22	75		0.1161	0.1166	1000	0.1166	0.1166	<1	<1				
-23	76		0.1165	0.1169	1000	0.1169	0.1169	<1	<1				
BLANK	77		0.1162	0.1168	1000	0.1168	0.1168	<1	<1				
100 ppm LFB	78		0.1156	0.1161	100	0.1255	0.1255	94	94				94
WBA0800-18 DUB	79		0.1150	0.1156	100	0.1237	0.1237	81	81				97.6
WBA0800-24 MS	80		0.1159	0.1164	50/50	0.1258	0.1258	94	188				105
I MSD	81		0.1166	0.1173	I	0.1265	0.1265	92	184				101

**when 3 dry weights taken, calculate result using two closest weights.

QC REQUIREMENTS:

Blank <1ppm, LFB %Rec= 90-110%, MS/MSD %Rec= 80-120%

TSS Reagents	Std. #	Volume Used	Amount Spiked	Balance		Thermometer	Filter Lot
100ppm Cellulose TSS Soln.	2100355	100 mL	100 PPM	BAD6		00627	2002097

Comments:

BBB0043

Blank Report

Sample Name bbb0124-blk2
File Name 028_Blk.d
Data Path Name D:\Agilent\CPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:22:44
Sample Type Blank
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator **Metals**

QC Analyte Table

Mass	Name	Conc.	ISTD	Tune Mode	Conc. RSD	Limit	QC Flag
7	Li	0.193	6	No Gas	52.4	1.1	
75	As	<0.000	72	He	N/A	0.132	
208	Pb	0.059	165	No Gas	73.8	0.088	
208	Pb	0.059	165	He	21.6	0.088	
238	U	0.004	165	No Gas	12.9	0.11	
238	U	0.003	165	He	62.5	0.11	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	455071.73	1.5	104.3	436284.266666667
Sc	45	No Gas	737250.62	0.7	95.9	768443.02
Sc	45	He	74902.89	5.2	80.2	93438.6833333333
Ge	72	No Gas	368363.47	1.0	93.1	395604.69
Ge	72	He	91609.83	4.0	82.9	110507.816666667
Ge	72	HEHe	53352.87	3.0	94.6	56406.0466666667
Rh	103	No Gas	1172580.00	1.8	92.6	1266499.25
Rh	103	He	629115.31	2.9	85.1	738835.753333333
Ho	165	No Gas	398456.62	2.1	91.5	435570.666666667
Ho	165	He	198722.41	3.1	85.0	233748.99

Low Level Initial Calibration Verification (LLICV) Report

Sample Name bbb0124-mrl1
File Name 029LICV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:25:02
Sample Type LLICV
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator Metals

QC Analyte Table

Mass	Name	Conc.	ISTD	Tune	CPS RSD	ExpVal	% Rec	QC Flag
7	Li	0.963	6	No Gas	1.1	1	96.3	
75	As	0.998	72	He	2.4	1	99.8	
208	Pb	1.018	165	No Gas	1.1	1	101.8	
208	Pb	1.128	165	He	1.4	1	112.8	
238	U	1.040	165	No Gas	3.8	1	104	
238	U	1.158	165	He	9.3	1	115.8	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	525544.33	2.9	120.5	436284.266666667
Sc	45	No Gas	812872.10	3.5	105.8	768443.02
Sc	45	He	74571.83	16.7	79.8	93438.6833333333
Ge	72	No Gas	389740.58	1.8	98.5	395604.69
Ge	72	He	87429.19	9.0	79.1	110507.816666667
Ge	72	HEHe	55694.32	3.4	98.7	56406.0466666667
Rh	103	No Gas	1230555.79	2.4	97.2	1266499.25
Rh	103	He	623894.92	15.1	84.4	738835.753333333
Ho	165	No Gas	415105.75	1.5	95.3	435570.666666667
Ho	165	He	191413.99	15.3	81.9	233748.99

Low Level Initial Calibration Verification (LLICV) Report

Sample Name bbb0124-mrl2
File Name 030LICV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:27:23
Sample Type LLICV
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator Metals

QC Analyte Table

Mass	Name	Conc.	ISTD	Tune	CPS RSD	ExpVal	% Rec	QC Flag
7	Li	1.193	6	No Gas	2.1	1	119.3	
75	As	0.934	72	He	10.4	1	93.4	
208	Pb	1.021	165	No Gas	4.0	1	102.1	
208	Pb	1.034	165	He	6.4	1	103.4	
238	U	1.021	165	No Gas	3.4	1	102.1	
238	U	1.034	165	He	5.6	1	103.4	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	521990.94	1.7	119.6	436284.266666667
Sc	45	No Gas	802043.75	2.5	104.4	768443.02
Sc	45	He	82183.33	5.2	88.0	93438.6833333333
Ge	72	No Gas	388401.74	1.3	98.2	395604.69
Ge	72	He	97217.70	5.0	88.0	110507.816666667
Ge	72	HEHe	58119.89	0.8	103.0	56406.0466666667
Rh	103	No Gas	1234103.66	2.2	97.4	1266499.25
Rh	103	He	662191.73	3.3	89.6	738835.753333333
Ho	165	No Gas	413417.80	0.7	94.9	435570.666666667
Ho	165	He	206956.31	4.4	88.5	233748.99

Laboratory Control Sample (LCS) Report

Sample Name bbb0124-bs1
File Name 031_LCS.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:29:42
Sample Type LCS
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator Metals

QC Analyte Table

Mass	Name	Conc.	ISTD	Tune	Conc. RSD	ExpValue	% Rec	%QC Low	%QC High	QC Flag
7	Li	49.010	6	No Gas	3.4	50	98.02	85	115	
75	As	49.915	72	He	0.8	50	99.83	85	115	
208	Pb	49.553	165	No Gas	3.5	50	99.11	85	115	
208	Pb	51.040	165	He	1.3	50	102.08	85	115	
238	U	50.755	165	No Gas	3.2	50	101.51	85	115	
238	U	51.874	165	He	2.2	50	103.75	85	115	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	460008.63	0.6	105.4	436284.266666667
Sc	45	No Gas	740875.23	0.9	96.4	768443.02
Sc	45	He	74922.94	6.3	80.2	93438.6833333333
Ge	72	No Gas	363507.44	0.9	91.9	395604.69
Ge	72	He	89979.04	5.2	81.4	110507.816666667
Ge	72	HEHe	54006.55	2.7	95.7	56406.0466666667
Rh	103	No Gas	1146415.66	1.4	90.5	1266499.25
Rh	103	He	621781.40	4.3	84.2	738835.7533333333
Ho	165	No Gas	397134.65	1.2	91.2	435570.666666667
Ho	165	He	197561.51	5.0	84.5	233748.99

Laboratory Control Sample (LCS) Report

Sample Name bbb0124-bs2
File Name 032_LCS.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:32:00
Sample Type LCS
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator Metals

QC Analyte Table

Mass	Name	Conc.	ISTD	Tune	Conc. RSD	ExpValue	% Rec	%QC Low	%QC High	QC Flag
7	Li	49.911	6	No Gas	4.5	50	99.82	85	115	
75	As	50.928	72	He	0.6	50	101.86	85	115	
208	Pb	50.092	165	No Gas	4.1	50	100.18	85	115	
208	Pb	52.052	165	He	0.5	50	104.1	85	115	
238	U	51.164	165	No Gas	5.3	50	102.33	85	115	
238	U	52.511	165	He	2.1	50	105.02	85	115	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	472332.33	0.6	108.3	436284.266666667
Sc	45	No Gas	754962.56	0.9	98.2	768443.02
Sc	45	He	76682.01	3.0	82.1	93438.6833333333
Ge	72	No Gas	368556.74	0.2	93.2	395604.69
Ge	72	He	90920.75	3.5	82.3	110507.816666667
Ge	72	HEHe	56961.93	2.5	101.0	56406.0466666667
Rh	103	No Gas	1135568.46	2.3	89.7	1266499.25
Rh	103	He	633687.39	2.2	85.8	738835.7533333333
Ho	165	No Gas	400490.24	1.1	91.9	435570.666666667
Ho	165	He	200617.50	3.4	85.8	233748.99

Reference Sample Report

Sample Name wba0800-01
File Name 033_ARF.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:34:21
Sample Type AllRef
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator Metals

QC Analyte Table

Mass	Name	Conc.	Raw Conc.	ISTD	Tune Mode	Conc. RSD	LDR	QC Flag
7	Li	0.534	0.534	6	No Gas	16.8	100	
75	As	0.009	0.009	72	He	273.1	1000	
208	Pb	1.158	1.158	165	No Gas	2.3	1000	
208	Pb	1.099	1.099	165	He	3.2	1000	
238	U	0.044	0.044	165	No Gas	8.3	1000	
238	U	0.045	0.045	165	He	8.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	471144.89	0.9	108.0	436284.266666667
Sc	45	No Gas	765929.17	1.0	99.7	768443.02
Sc	45	He	75164.17	5.2	80.4	93438.6833333333
Ge	72	No Gas	367863.26	2.8	93.0	395604.69
Ge	72	He	92296.24	4.6	83.5	110507.816666667
Ge	72	HEHe	54563.13	1.9	96.7	56406.0466666667
Rh	103	No Gas	1107726.84	2.1	87.5	1266499.25
Rh	103	He	601623.83	4.6	81.4	738835.753333333
Ho	165	No Gas	397616.10	1.7	91.3	435570.666666667
Ho	165	He	198628.11	3.5	85.0	233748.99

Laboratory Fortified Matrix Sample (LFM) Report

Sample Name bbb0124-ms1
File Name 034_LFM.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:36:39
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
QC Ref File Name 033_
Default Text ARF.
Metals

QC Analyte Table

Mass	Name	Conc.	Tune	Conc. RSD	Ref Conc	Spk Amt	% Rec	%Low	%High	Flag
7	Li	50.193	No Gas	4.5	0.533846609209037	50	99.32	70	130	
75	As	49.711	He	0.9	0.00881707676654593	50	99.41	70	130	
208	Pb	49.473	No Gas	2.6	1.15848209510545	50	96.63	70	130	
208	Pb	50.541	He	1.5	1.09945688950302	50	98.88	70	130	
238	U	51.138	No Gas	3.6	0.0443218877766292	50	102.19	70	130	
238	U	52.155	He	0.7	0.0453607543972252	50	104.22	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	497696.55	0.5	114.1	436284.266666667
Sc	45	No Gas	780089.12	0.4	101.5	768443.02
Sc	45	He	77462.26	5.6	82.9	93438.6833333333
Ge	72	No Gas	380481.63	0.5	96.2	395604.69
Ge	72	He	92806.77	4.9	84.0	110507.816666667
Ge	72	HEHe	54925.52	1.8	97.4	56406.0466666667
Rh	103	No Gas	1177065.58	1.7	92.9	1266499.25
Rh	103	He	627574.40	3.1	84.9	738835.753333333
Ho	165	No Gas	405352.70	0.4	93.1	435570.666666667
Ho	165	He	202758.01	2.3	86.7	233748.99

LFM Duplicate (LFMD) Sample Report

Sample Name bbb0124-msd1
File Name 035LFMD.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:38:58
Sample Type LFMDup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD Ref FileName Pass
QC Ref File Name 034_
Default Text LFM.
Metals d

QC Analyte Table

Mass	Name	Conc.	Tune	Conc. RSD	Ref Conc	RPD	RPD Max	Flag
7	Li	50.237	No Gas	2.3	50.1928065476859	0.09	20	
75	As	49.790	He	0.9	49.7114911656734	0.16	20	
208	Pb	50.058	No Gas	3.7	49.4729311893219	1.18	20	
208	Pb	51.925	He	1.7	50.5412276089711	2.7	20	
238	U	51.023	No Gas	4.5	51.1377846144966	0.23	20	
238	U	52.957	He	1.4	52.1548190134581	1.53	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	500412.75	1.2	114.7	436284.266666667
Sc	45	No Gas	786159.90	1.6	102.3	768443.02
Sc	45	He	77387.14	4.5	82.8	93438.6833333333
Ge	72	No Gas	382128.66	1.6	96.6	395604.69
Ge	72	He	93953.04	4.3	85.0	110507.816666667
Ge	72	HEHe	55323.03	5.1	98.1	56406.046666667
Rh	103	No Gas	1184927.08	0.6	93.6	1266499.25
Rh	103	He	633355.55	3.9	85.7	738835.753333333
Ho	165	No Gas	410370.84	0.9	94.2	435570.666666667
Ho	165	He	201573.04	3.9	86.2	233748.99

Sample Report

Sample Name wba0800-02
File Name 036SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:41:19
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.275	No Gas	0.275	6	1.4	100	
75	As	0.033	He	0.033	72	19.3	1000	
208	Pb	0.105	No Gas	0.105	165	11.1	1000	
208	Pb	0.051	He	0.051	165	8.1	1000	
238	U	0.050	No Gas	0.05	165	4.8	1000	
238	U	0.054	He	0.054	165	11.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	507623.65	1.7	116.4	436284.266666667
Sc	45	No Gas	795083.58	1.4	103.5	768443.02
Sc	45	He	76761.03	8.0	82.2	93438.6833333333
Ge	72	No Gas	378223.08	0.1	95.6	395604.69
Ge	72	He	91717.14	5.4	83.0	110507.816666667
Ge	72	HEHe	55070.72	3.4	97.6	56406.0466666667
Rh	103	No Gas	1150038.71	3.1	90.8	1266499.25
Rh	103	He	605816.09	4.9	82.0	738835.753333333
Ho	165	No Gas	406938.76	0.7	93.4	435570.666666667
Ho	165	He	201056.01	5.3	86.0	233748.99

Sample Report

Sample Name wba0800-03
File Name 037SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:43:37
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.194	No Gas	0.194	6	1.3	100	
75	As	0.188	He	0.188	72	11.4	1000	
208	Pb	0.084	No Gas	0.084	165	13.4	1000	
208	Pb	0.048	He	0.048	165	1.0	1000	
238	U	0.016	No Gas	0.016	165	19.5	1000	
238	U	0.020	He	0.02	165	13.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	503041.56	0.3	115.3	436284.266666667
Sc	45	No Gas	784908.50	0.3	102.1	768443.02
Sc	45	He	76183.19	5.9	81.5	93438.6833333333
Ge	72	No Gas	376476.99	0.2	95.2	395604.69
Ge	72	He	91532.54	4.0	82.8	110507.816666667
Ge	72	HEHe	52795.17	1.0	93.6	56406.0466666667
Rh	103	No Gas	1181835.54	0.3	93.3	1266499.25
Rh	103	He	625642.00	2.2	84.7	738835.753333333
Ho	165	No Gas	405732.91	1.3	93.1	435570.666666667
Ho	165	He	201716.39	3.2	86.3	233748.99

Sample Report

Sample Name wba0800-04
File Name 038SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:45:55
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	0.415	No Gas	0.415	6	1.5	100	
75	As	0.649	He	0.649	72	9.8	1000	
208	Pb	0.356	No Gas	0.356	165	4.6	1000	
208	Pb	0.343	He	0.343	165	11.4	1000	
238	U	0.056	No Gas	0.056	165	9.6	1000	
238	U	0.058	He	0.058	165	3.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	508519.75	2.1	116.6	436284.266666667
Sc	45	No Gas	807906.48	2.1	105.1	768443.02
Sc	45	He	79314.67	5.7	84.9	93438.6833333333
Ge	72	No Gas	377049.92	1.1	95.3	395604.69
Ge	72	He	93196.53	7.3	84.3	110507.816666667
Ge	72	HEHe	54477.09	1.9	96.6	56406.0466666667
Rh	103	No Gas	1173820.46	2.3	92.7	1266499.25
Rh	103	He	630735.49	4.8	85.4	738835.753333333
Ho	165	No Gas	410668.40	0.7	94.3	435570.666666667
Ho	165	He	204925.71	4.5	87.7	233748.99

Sample Report

Sample Name wba0800-05
File Name 039SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:48:16
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	46.616	No Gas	46.616	6	4.8	100	
75	As	13.081	He	13.081	72	9.6	1000	
208	Pb	0.171	No Gas	0.171	165	4.4	1000	
208	Pb	0.458	He	0.458	165	13.7	1000	
238	U	1.133	No Gas	1.133	165	2.8	1000	
238	U	1.153	He	1.153	165	4.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	567269.61	1.8	130.0	436284.266666667
Sc	45	No Gas	750878.75	3.3	97.7	768443.02
Sc	45	He	71069.68	7.8	76.1	93438.6833333333
Ge	72	No Gas	338447.45	2.9	85.6	395604.69
Ge	72	He	80402.69	3.5	72.8	110507.816666667
Ge	72	HEHe	46776.80	1.9	82.9	56406.0466666667
Rh	103	No Gas	889593.17	3.2	70.2	1266499.25
Rh	103	He	448212.54	4.9	60.7	738835.753333333
Ho	165	No Gas	320417.45	4.3	73.6	435570.666666667
Ho	165	He	151430.00	4.5	64.8	233748.99

Sample Report

Sample Name wba0800-06
File Name 040SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:50:35
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	1.281	No Gas	1.281	6	1.0	100	
75	As	1.228	He	1.228	72	7.0	1000	
208	Pb	0.238	No Gas	0.238	165	12.2	1000	
208	Pb	0.144	He	0.144	165	5.2	1000	
238	U	0.051	No Gas	0.051	165	12.1	1000	
238	U	0.047	He	0.047	165	22.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	601698.41	0.3	137.9	436284.266666667
Sc	45	No Gas	808271.54	0.6	105.2	768443.02
Sc	45	He	79318.16	6.5	84.9	93438.6833333333
Ge	72	No Gas	363257.51	0.9	91.8	395604.69
Ge	72	He	91200.19	5.0	82.5	110507.816666667
Ge	72	HEHe	51496.82	0.1	91.3	56406.0466666667
Rh	103	No Gas	1036035.89	2.4	81.8	1266499.25
Rh	103	He	558834.51	5.0	75.6	738835.753333333
Ho	165	No Gas	360425.78	0.5	82.7	435570.666666667
Ho	165	He	180048.04	5.0	77.0	233748.99

Sample Report

Sample Name wba0800-07
File Name 041SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:52:53
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	1.005	No Gas	1.005	6	1.6	100	
75	As	1.415	He	1.415	72	8.6	1000	
208	Pb	0.148	No Gas	0.148	165	18.1	1000	
208	Pb	0.043	He	0.043	165	8.5	1000	
238	U	0.057	No Gas	0.057	165	2.2	1000	
238	U	0.067	He	0.067	165	11.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	589742.98	1.4	135.2	436284.266666667
Sc	45	No Gas	809282.62	1.5	105.3	768443.02
Sc	45	He	76909.15	6.7	82.3	93438.6833333333
Ge	72	No Gas	365900.00	1.4	92.5	395604.69
Ge	72	He	89024.14	5.7	80.6	110507.816666667
Ge	72	HEHe	53511.25	1.4	94.9	56406.0466666667
Rh	103	No Gas	1051630.12	2.0	83.0	1266499.25
Rh	103	He	556888.76	4.0	75.4	738835.753333333
Ho	165	No Gas	368127.84	1.4	84.5	435570.666666667
Ho	165	He	182700.09	4.8	78.2	233748.99

Sample Report

Sample Name wba0800-08
File Name 042SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:55:14
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	1.003	No Gas	1.003	6	0.9	100	
75	As	1.392	He	1.392	72	5.1	1000	
208	Pb	0.083	No Gas	0.083	165	15.7	1000	
208	Pb	0.003	He	0.003	165	2.5	1000	
238	U	0.073	No Gas	0.073	165	10.9	1000	
238	U	0.076	He	0.076	165	28.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	585385.67	1.9	134.2	436284.266666667
Sc	45	No Gas	821029.10	1.6	106.8	768443.02
Sc	45	He	78192.12	6.8	83.7	93438.6833333333
Ge	72	No Gas	372219.47	0.1	94.1	395604.69
Ge	72	He	90546.21	6.2	81.9	110507.816666667
Ge	72	HEHe	52431.60	3.4	93.0	56406.046666667
Rh	103	No Gas	1076475.50	3.3	85.0	1266499.25
Rh	103	He	566929.16	4.3	76.7	738835.753333333
Ho	165	No Gas	384266.48	1.8	88.2	435570.666666667
Ho	165	He	190707.21	4.5	81.6	233748.99

Sample Report

Sample Name Rinse
File Name 043_RIN.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 11:57:31
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	590887.10	11.3	135.4	436284.266666667
Sc	45	No Gas	873348.50	1.8	113.7	768443.02
Sc	45	He	96100.50	6.8	102.8	93438.6833333333
Ge	72	No Gas	396777.78	0.5	100.3	395604.69
Ge	72	He	109665.41	6.2	99.2	110507.816666667
Ge	72	HEHe	57534.11	4.4	102.0	56406.0466666667
Rh	103	No Gas	1219885.37	1.2	96.3	1266499.25
Rh	103	He	706639.22	6.2	95.6	738835.753333333
Ho	165	No Gas	401090.69	1.0	92.1	435570.666666667
Ho	165	He	226039.85	6.3	96.7	233748.99

Continuing Calibration Verification (CCV) Report

Sample Name CCV
File Name 044_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:00:52
Sample Type CCV
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Fail
Operator Metals

QC Analyte Table

Mass	Name	Conc.	Tune Mode	ISTD	Conc. RSD	ExpValue	% Rec	%QC Low	%QC High	QC Flag
7	Li	50.738	No Gas	6	1.6	50	101.48	90	110	.
9	Be	46.350	No Gas	6	2.1	50	92.7	90	110	.
11	B	60.496	No Gas	45	2.2	50	120.99	90	110	> +/- 10%
27	Al	111.216	No Gas	45	0.8	100	111.22	90	110	> +/- 10%
27	Al	107.015	He	45	5.1	100	107.01	90	110	.
47	Ti	48.568	He	45	2.6	50	97.14	90	110	.
51	V	49.864	He	45	1.4	50	99.73	90	110	.
52	Cr	48.428	He	45	2.0	50	96.86	90	110	.
55	Mn	52.045	No Gas	72	1.3	50	104.09	90	110	.
55	Mn	51.500	He	72	3.0	50	103	90	110	.
56	Fe	100.973	He	72	2.9	100	100.97	90	110	.
56	Fe	98.966	HEHe	72	1.2	100	98.97	90	110	.
57	Fe	100.382	He	72	4.1	100	100.38	90	110	.
59	Co	49.615	He	72	2.1	50	99.23	90	110	.
60	Ni	46.962	He	72	3.3	50	93.92	90	110	.
62	Ni	48.443	He	72	3.1	50	96.89	90	110	.
65	Cu	49.327	He	72	1.2	50	98.65	90	110	.
66	Zn	48.986	He	72	1.3	50	97.97	90	110	.
75	As	50.215	He	72	0.6	50	100.43	90	110	.
78	Se	52.055	He	72	3.2	50	104.11	90	110	.
88	Sr	49.613	No Gas	72	0.1	50	99.23	90	110	.
88	Sr	51.398	He	72	2.1	50	102.8	90	110	.
95	Mo	48.007	No Gas	103	1.2	50	96.01	90	110	.
95	Mo	49.472	He	103	0.9	50	98.94	90	110	.
98	Mo	48.698	No Gas	103	1.8	50	97.4	90	110	.
98	Mo	49.713	He	103	0.4	50	99.43	90	110	.
107	Ag	50.065	No Gas	103	1.1	50	100.13	90	110	.
107	Ag	50.340	He	103	0.7	50	100.68	90	110	.
109	Ag	49.937	No Gas	103	2.6	50	99.87	90	110	.
109	Ag	49.640	He	103	1.6	50	99.28	90	110	.
111	Cd	49.880	No Gas	103	2.0	50	99.76	90	110	.
111	Cd	50.397	He	103	0.3	50	100.79	90	110	.
114	Cd	50.284	No Gas	103	2.1	50	100.57	90	110	.
114	Cd	50.760	He	103	1.3	50	101.52	90	110	.

Continuing Calibration Verification (CCV) Report

Mass	Name	Conc.	Tune Mode	ISTD	Conc. RSD	ExpValue	% Rec	%QC Low	%QC High	QC Flag
137	Ba	51.555	No Gas	165	1.0	50	103.11	90	110	.
137	Ba	51.564	He	165	2.1	50	103.13	90	110	.
201	Hg	2.530	No Gas	165	1.3	2.5	101.2	90	110	.
201	Hg	2.391	He	165	6.1	2.5	95.64	90	110	.
202	Hg	2.467	No Gas	165	3.7	2.5	98.68	90	110	.
202	Hg	2.488	He	165	3.4	2.5	99.52	90	110	.
205	Tl	50.035	No Gas	165	0.6	50	100.07	90	110	.
205	Tl	49.417	He	165	1.3	50	98.83	90	110	.
208	Pb	49.617	No Gas	165	1.9	50	99.23	90	110	.
208	Pb	49.366	He	165	1.6	50	98.73	90	110	.
238	U	50.477	No Gas	165	1.1	50	100.95	90	110	.
238	U	50.004	He	165	0.9	50	100.01	90	110	.

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	626919.23	2.8	143.7	436284.266666667
Sc	45	No Gas	877413.23	6.2	114.2	768443.02
Sc	45	He	98477.89	7.2	105.4	93438.6833333333
Ge	72	No Gas	401289.28	2.6	101.4	395604.69
Ge	72	He	112200.64	5.3	101.5	110507.816666667
Ge	72	HEHe	59028.16	2.7	104.6	56406.0466666667
Rh	103	No Gas	1219563.25	4.2	96.3	1266499.25
Rh	103	He	721231.76	5.3	97.6	738835.753333333
Ho	165	No Gas	406889.98	2.4	93.4	435570.666666667
Ho	165	He	228048.91	6.3	97.6	233748.99

Continuing Calibration Blank (CCB) Report

Sample Name CCB
File Name 045_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:04:10
Sample Type CCB
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Fail
Operator Metals

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	Limit	QC Flag
Li	7	6	No Gas	0.177	ppb	322.0	1.1	
Be	9	6	No Gas	0.003	ppb	196.6	0.11	
B	11	45	No Gas	10.454	ppb	17.4	3.718	>DL*2.2
Al	27	45	No Gas	<0.000	ppb	N/A	3.454	
Al	27	45	He	<0.000	ppb	N/A	3.454	
Ti	47	45	He	<0.000	ppb	N/A	0.506	
V	51	45	He	0.031	ppb	25.3	0.616	
Cr	52	45	He	<0.000	ppb	N/A	0.088	
Mn	55	72	No Gas	0.002	ppb	345.5	0.11	
Mn	55	72	He	<0.000	ppb	N/A	0.11	
Fe	56	72	He	<0.000	ppb	N/A	3.498	
Fe	56	72	HEHe	<0.000	ppb	N/A	3.498	
Fe	57	72	He	<0.000	ppb	N/A	3.498	
Co	59	72	He	<0.000	ppb	N/A	0.044	
Ni	60	72	He	<0.000	ppb	N/A	0.176	
Ni	62	72	He	<0.000	ppb	N/A	0.176	
Cu	65	72	He	<0.000	ppb	N/A	0.066	
Zn	66	72	He	<0.000	ppb	N/A	0.66	
As	75	72	He	<0.000	ppb	N/A	0.132	
Se	78	72	He	<0.000	ppb	N/A	0.374	
Sr	88	72	No Gas	0.003	ppb	115.8	0.044	
Sr	88	72	He	0.036	ppb	58.7	0.044	
Mo	95	103	No Gas	0.427	ppb	13.7	0.11	>DL*2.2
Mo	95	103	He	0.332	ppb	43.3	0.11	>DL*2.2
Mo	98	103	No Gas	0.393	ppb	13.0	0.11	>DL*2.2
Mo	98	103	He	0.344	ppb	3.4	0.11	>DL*2.2
Ag	107	103	No Gas	0.001	ppb	253.9	0.066	
Ag	107	103	He	0.001	ppb	242.7	0.066	
Ag	109	103	No Gas	0.005	ppb	84.1	0.066	
Ag	109	103	He	0.004	ppb	59.8	0.066	
Cd	111	103	No Gas	<0.000	ppb	N/A	0.022	
Cd	111	103	He	0.003	ppb	274.3	0.022	
Cd	114	103	No Gas	<0.000	ppb	N/A	0.022	
Cd	114	103	He	<0.000	ppb	N/A	0.022	

Continuing Calibration Blank (CCB) Report

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	Limit	QC Flag
Ba	137	165	No Gas	<0.000	ppb	N/A	0.11	
Ba	137	165	He	0.022	ppb	75.8	0.11	
Hg	201	165	No Gas	0.027	ppb	25.0	0.022	>DL*2.2
Hg	201	165	He	0.034	ppb	18.7	0.022	>DL*2.2
Hg	202	165	No Gas	0.015	ppb	21.9	0.022	
Hg	202	165	He	0.025	ppb	19.3	0.022	>DL*2.2
Tl	205	165	No Gas	0.006	ppb	26.5	0.11	
Tl	205	165	He	0.002	ppb	94.7	0.11	
Pb	208	165	No Gas	<0.000	ppb	N/A	0.088	
Pb	208	165	He	<0.000	ppb	N/A	0.088	
U	238	165	No Gas	0.005	ppb	41.6	0.11	
U	238	165	He	0.006	ppb	33.6	0.11	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	614781.44	8.4	140.9	436284.266666667
Sc	45	No Gas	896082.50	8.3	116.6	768443.02
Sc	45	He	103752.52	7.2	111.0	93438.6833333333
Ge	72	No Gas	406851.35	2.6	102.8	395604.69
Ge	72	He	118424.99	5.8	107.2	110507.816666667
Ge	72	HEHe	60226.73	2.5	106.8	56406.046666667
Rh	103	No Gas	1265776.42	3.3	99.9	1266499.25
Rh	103	He	735634.00	4.8	99.6	738835.753333333
Ho	165	No Gas	401959.42	5.7	92.3	435570.666666667
Ho	165	He	230690.69	4.4	98.7	233748.99

Sample Report

Sample Name wba0800-09
File Name 046SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:07:31
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.550	He	1.55	72	1.9	1000	
208	Pb	0.115	No Gas	0.115	165	9.3	1000	
208	Pb	0.051	He	0.051	165	2.4	1000	
238	U	0.215	No Gas	0.215	165	4.7	1000	
238	U	0.228	He	0.228	165	14.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	727115.46	1.0	94.6	768443.02
Sc	45	He	77525.02	7.4	83.0	93438.6833333333
Ge	72	No Gas	341357.57	0.5	86.3	395604.69
Ge	72	He	88985.10	6.0	80.5	110507.816666667
Ge	72	HEHe	51715.41	0.6	91.7	56406.0466666667
Rh	103	No Gas	961035.88	0.8	75.9	1266499.25
Rh	103	He	553133.85	4.4	74.9	738835.753333333
Ho	165	No Gas	362371.61	0.7	83.2	435570.666666667
Ho	165	He	184771.13	4.0	79.0	233748.99

Sample Report

Sample Name wba0800-10
File Name 047SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:09:49
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.433	He	0.433	72	8.5	1000	
208	Pb	0.174	No Gas	0.174	165	12.0	1000	
208	Pb	0.106	He	0.106	165	6.8	1000	
238	U	0.030	No Gas	0.03	165	4.7	1000	
238	U	0.029	He	0.029	165	23.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	817601.79	0.8	106.4	768443.02
Sc	45	He	81314.28	7.4	87.0	93438.6833333333
Ge	72	No Gas	380315.09	1.7	96.1	395604.69
Ge	72	He	95188.71	6.4	86.1	110507.816666667
Ge	72	HEHe	56289.08	2.9	99.8	56406.0466666667
Rh	103	No Gas	1145183.34	1.3	90.4	1266499.25
Rh	103	He	612365.32	5.0	82.9	738835.753333333
Ho	165	No Gas	396312.57	1.3	91.0	435570.666666667
Ho	165	He	199656.68	4.5	85.4	233748.99

Sample Report

Sample Name wba0800-11
File Name 048SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:12:07
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	3.987	He	3.987	72	7.6	1000	
208	Pb	0.149	No Gas	0.149	165	9.7	1000	
208	Pb	0.076	He	0.076	165	5.9	1000	
238	U	0.302	No Gas	0.302	165	4.6	1000	
238	U	0.321	He	0.321	165	4.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	811557.79	1.6	105.6	768443.02
Sc	45	He	81808.27	6.5	87.6	93438.6833333333
Ge	72	No Gas	375308.73	1.7	94.9	395604.69
Ge	72	He	95726.82	6.7	86.6	110507.816666667
Ge	72	HEHe	53460.98	1.0	94.8	56406.0466666667
Rh	103	No Gas	1100953.79	1.0	86.9	1266499.25
Rh	103	He	593611.97	4.5	80.3	738835.753333333
Ho	165	No Gas	390372.51	2.0	89.6	435570.666666667
Ho	165	He	196910.36	4.0	84.2	233748.99

Sample Report

Sample Name wba0800-12
File Name 049SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:14:28
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.805	He	1.805	72	5.8	1000	
208	Pb	0.062	No Gas	0.062	165	9.8	1000	
208	Pb	<0.000	He	-0.003	165	7.0	1000	
238	U	0.261	No Gas	0.261	165	3.6	1000	
238	U	0.264	He	0.264	165	3.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	808221.58	1.6	105.2	768443.02
Sc	45	He	80554.59	7.5	86.2	93438.6833333333
Ge	72	No Gas	370414.29	0.9	93.6	395604.69
Ge	72	He	93491.30	5.3	84.6	110507.816666667
Ge	72	HEHe	53505.67	2.1	94.9	56406.0466666667
Rh	103	No Gas	1035597.92	1.1	81.8	1266499.25
Rh	103	He	574555.86	4.3	77.8	738835.753333333
Ho	165	No Gas	384500.20	1.3	88.3	435570.666666667
Ho	165	He	192259.79	5.2	82.3	233748.99

Laboratory Fortified Matrix Sample (LFM) Report

Sample Name bbb0124-ms2
File Name 050_LFM.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:16:47
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
QC Ref File Name 033_
Default Text ARF.
Metals

QC Analyte Table

Mass	Name	Conc.	Tune	Conc. RSD	Ref Conc	Spk Amt	% Rec	%Low	%High	Flag
75	As	51.103	He	1.2	0.00881707676654593	50	102.19	70	130	
208	Pb	45.546	No Gas	3.4	1.15848209510545	50	88.78	70	130	
208	Pb	46.710	He	1.4	1.09945688950302	50	91.22	70	130	
238	U	48.804	No Gas	4.1	0.0443218877766292	50	97.52	70	130	
238	U	50.342	He	1.0	0.0453607543972252	50	100.59	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	786165.62	1.1	102.3	768443.02
Sc	45	He	80582.51	7.7	86.2	93438.6833333333
Ge	72	No Gas	362681.98	1.1	91.7	395604.69
Ge	72	He	93961.70	6.8	85.0	110507.816666667
Ge	72	HEHe	52647.78	0.5	93.3	56406.0466666667
Rh	103	No Gas	1035827.38	2.3	81.8	1266499.25
Rh	103	He	571299.21	4.6	77.3	738835.753333333
Ho	165	No Gas	373688.93	1.6	85.8	435570.666666667
Ho	165	He	190392.10	4.6	81.5	233748.99

LFM Duplicate (LFMD) Sample Report

Sample Name bbb0124-msd2
File Name 051LFMD.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:19:05
Sample Type LFMDup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD Ref FileName Pass
QC Ref File Name 050_
Default Text LFM.
Metals d

QC Analyte Table

Mass	Name	Conc.	Tune	Conc. RSD	Ref Conc	RPD	RPD Max	Flag
75	As	52,746	He	1.7	51.1033701751806	3.16	20	
208	Pb	46,830	No Gas	3.2	45.5462424462286	2.78	20	
208	Pb	48,504	He	0.2	46.7095465886712	3.77	20	
238	U	50,348	No Gas	4.4	48.8039668044385	3.12	20	
238	U	51,646	He	1.0	50.3423704089705	2.56	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	773244.77	1.0	100.6	768443.02
Sc	45	He	76627.21	7.9	82.0	93438.6833333333
Ge	72	No Gas	356176.94	1.0	90.0	395604.69
Ge	72	He	89411.32	6.2	80.9	110507.816666667
Ge	72	HEHe	51220.39	3.6	90.8	56406.0466666667
Rh	103	No Gas	1003959.73	0.5	79.3	1266499.25
Rh	103	He	548643.31	5.6	74.3	738835.753333333
Ho	165	No Gas	367578.76	0.7	84.4	435570.666666667
Ho	165	He	182679.95	4.7	78.2	233748.99

Sample Report

Sample Name wba0800-13
File Name 052SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:21:26
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.248	He	1.248	72	11.4	1000	
208	Pb	0.181	No Gas	0.181	165	14.2	1000	
208	Pb	0.121	He	0.121	165	2.9	1000	
238	U	0.056	No Gas	0.056	165	10.0	1000	
238	U	0.059	He	0.059	165	13.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	797807.98	0.6	103.8	768443.02
Sc	45	He	78179.81	7.4	83.7	93438.6833333333
Ge	72	No Gas	369397.54	1.0	93.4	395604.69
Ge	72	He	92344.17	7.5	83.6	110507.816666667
Ge	72	HEHe	51975.26	2.4	92.1	56406.0466666667
Rh	103	No Gas	1065840.98	3.4	84.2	1266499.25
Rh	103	He	574765.26	5.1	77.8	738835.753333333
Ho	165	No Gas	381110.40	0.5	87.5	435570.666666667
Ho	165	He	191995.75	6.1	82.1	233748.99

Sample Report

Sample Name wba0800-14
File Name 053SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:23:44
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.997	He	0.997	72	10.1	1000	
208	Pb	0.165	No Gas	0.165	165	11.7	1000	
208	Pb	0.099	He	0.099	165	11.7	1000	
238	U	0.051	No Gas	0.051	165	3.3	1000	
238	U	0.053	He	0.053	165	13.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	796813.19	0.3	103.7	768443.02
Sc	45	He	76104.96	6.6	81.4	93438.6833333333
Ge	72	No Gas	368931.02	0.5	93.3	395604.69
Ge	72	He	91004.09	6.1	82.4	110507.816666667
Ge	72	HEHe	51616.28	1.7	91.5	56406.0466666667
Rh	103	No Gas	1087987.42	2.4	85.9	1266499.25
Rh	103	He	572546.54	5.1	77.5	738835.753333333
Ho	165	No Gas	384227.29	1.0	88.2	435570.666666667
Ho	165	He	193094.61	4.8	82.6	233748.99

Sample Report

Sample Name wba0800-15
File Name 054SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:26:03
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	2.940	He	2.94	72	11.6	1000	
208	Pb	1.287	No Gas	1.287	165	24.8	1000	
208	Pb	2.099	He	2.099	165	2.4	1000	
238	U	3.636	No Gas	3.636	165	0.2	1000	
238	U	3.694	He	3.694	165	4.4	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	550275.21	1.6	71.6	768443.02
Sc	45	He	54646.51	7.9	58.5	93438.6833333333
Ge	72	No Gas	242375.45	1.4	61.3	395604.69
Ge	72	He	60456.81	6.2	54.7	110507.816666667
Ge	72	HEHe	39536.55	3.7	70.1	56406.0466666667
Rh	103	No Gas	643921.06	2.7	50.8	1266499.25
Rh	103	He	329764.85	3.9	44.6	738835.7533333333
Ho	165	No Gas	239583.87	2.2	55.0	435570.666666667
Ho	165	He	113251.42	4.5	48.5	233748.99

Sample Report

Sample Name wba0800-16
File Name 055SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:28:26
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.486	He	1.486	72	9.7	1000	
208	Pb	0.283	No Gas	0.283	165	12.0	1000	
208	Pb	0.279	He	0.279	165	7.8	1000	
238	U	0.378	No Gas	0.378	165	3.0	1000	
238	U	0.397	He	0.397	165	3.7	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	740226.65	0.9	96.3	768443.02
Sc	45	He	72499.13	6.9	77.6	93438.6833333333
Ge	72	No Gas	330705.64	0.9	83.6	395604.69
Ge	72	He	83311.84	5.0	75.4	110507.816666667
Ge	72	HEHe	47223.87	2.4	83.7	56406.0466666667
Rh	103	No Gas	897209.86	0.4	70.8	1266499.25
Rh	103	He	482115.66	3.9	65.3	738835.753333333
Ho	165	No Gas	314952.22	0.7	72.3	435570.666666667
Ho	165	He	155790.06	2.8	66.6	233748.99

Sample Report

Sample Name Rinse
File Name 056_RIN.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:30:43
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	569334.04	1.9	130.5	436284.266666667
Sc	45	No Gas	812214.29	0.4	105.7	768443.02
Sc	45	He	89736.31	8.2	96.0	93438.6833333333
Ge	72	No Gas	363418.28	0.2	91.9	395604.69
Ge	72	He	101879.32	6.1	92.2	110507.816666667
Ge	72	HEHe	52103.60	0.9	92.4	56406.0466666667
Rh	103	No Gas	1096040.42	0.4	86.5	1266499.25
Rh	103	He	633298.78	5.4	85.7	738835.753333333
Ho	165	No Gas	350745.62	0.3	80.5	435570.666666667
Ho	165	He	196607.49	5.4	84.1	233748.99

Continuing Calibration Verification (CCV) Report

Sample Name CCV
File Name 057_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:34:05
Sample Type CCV
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Fail
Operator Metals

QC Analyte Table

Mass	Name	Conc.	Tune Mode	ISTD	Conc. RSD	ExpValue	% Rec	%QC Low	%QC High	QC Flag
7	Li	50.345	No Gas	6	2.0	50	100.69	90	110	.
9	Be	45.511	No Gas	6	2.0	50	91.02	90	110	.
11	B	71.606	No Gas	45	3.5	50	143.21	90	110	> +/- 10%
27	Al	111.982	No Gas	45	2.0	100	111.98	90	110	> +/- 10%
27	Al	99.914	He	45	1.9	100	99.91	90	110	.
47	Ti	48.719	He	45	4.5	50	97.44	90	110	.
51	V	50.091	He	45	1.1	50	100.18	90	110	.
52	Cr	48.119	He	45	2.1	50	96.24	90	110	.
55	Mn	52.457	No Gas	72	3.2	50	104.91	90	110	.
55	Mn	50.422	He	72	0.7	50	100.84	90	110	.
56	Fe	98.626	He	72	1.6	100	98.63	90	110	.
56	Fe	98.191	HEHe	72	1.1	100	98.19	90	110	.
57	Fe	96.686	He	72	3.0	100	96.69	90	110	.
59	Co	48.923	He	72	1.3	50	97.85	90	110	.
60	Ni	45.835	He	72	3.7	50	91.67	90	110	.
62	Ni	47.671	He	72	3.8	50	95.34	90	110	.
65	Cu	47.780	He	72	1.9	50	95.56	90	110	.
66	Zn	47.785	He	72	2.6	50	95.57	90	110	.
75	As	49.298	He	72	1.3	50	98.6	90	110	.
78	Se	51.051	He	72	2.9	50	102.1	90	110	.
88	Sr	50.009	No Gas	72	2.0	50	100.02	90	110	.
88	Sr	50.956	He	72	1.2	50	101.91	90	110	.
95	Mo	47.161	No Gas	103	0.6	50	94.32	90	110	.
95	Mo	48.668	He	103	1.1	50	97.34	90	110	.
98	Mo	47.456	No Gas	103	1.4	50	94.91	90	110	.
98	Mo	49.435	He	103	2.3	50	98.87	90	110	.
107	Ag	48.613	No Gas	103	1.3	50	97.23	90	110	.
107	Ag	50.124	He	103	1.0	50	100.25	90	110	.
109	Ag	48.941	No Gas	103	1.5	50	97.88	90	110	.
109	Ag	50.116	He	103	1.0	50	100.23	90	110	.
111	Cd	48.929	No Gas	103	1.2	50	97.86	90	110	.
111	Cd	50.038	He	103	1.4	50	100.08	90	110	.
114	Cd	49.147	No Gas	103	0.5	50	98.29	90	110	.
114	Cd	50.074	He	103	0.4	50	100.15	90	110	.

Continuing Calibration Verification (CCV) Report

Mass	Name	Conc.	Tune Mode	ISTD	Conc. RSD	ExpValue	% Rec	%QC Low	%QC High	QC Flag
137	Ba	51.399	No Gas	165	2.8	50	102.8	90	110	.
137	Ba	53.116	He	165	1.5	50	106.23	90	110	.
201	Hg	2.383	No Gas	165	3.7	2.5	95.32	90	110	.
201	Hg	2.407	He	165	2.3	2.5	96.28	90	110	.
202	Hg	2.378	No Gas	165	3.0	2.5	95.12	90	110	.
202	Hg	2.476	He	165	3.7	2.5	99.04	90	110	.
205	Tl	49.040	No Gas	165	2.0	50	98.08	90	110	.
205	Tl	49.279	He	165	1.3	50	98.56	90	110	.
208	Pb	48.315	No Gas	165	2.4	50	96.63	90	110	.
208	Pb	49.630	He	165	0.1	50	99.26	90	110	.
238	U	48.183	No Gas	165	1.8	50	96.37	90	110	.
238	U	49.051	He	165	1.1	50	98.1	90	110	.

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	554526.81	1.5	127.1	436284.266666667
Sc	45	No Gas	801824.06	3.0	104.3	768443.02
Sc	45	He	90062.55	6.7	96.4	93438.6833333333
Ge	72	No Gas	364810.13	1.1	92.2	395604.69
Ge	72	He	103594.02	6.4	93.7	110507.816666667
Ge	72	HEHe	53581.41	2.8	95.0	56406.0466666667
Rh	103	No Gas	1117508.29	3.4	88.2	1266499.25
Rh	103	He	653321.99	6.2	88.4	738835.753333333
Ho	165	No Gas	366620.00	2.4	84.2	435570.666666667
Ho	165	He	202119.45	6.3	86.5	233748.99

Continuing Calibration Blank (CCB) Report

Sample Name CCB
File Name 058_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:37:24
Sample Type CCB
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Fail
Operator Metals

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	Limit	QC Flag
Li	7	6	No Gas	<0.000	ppb	N/A	1.1	
Be	9	6	No Gas	0.003	ppb	204.8	0.11	
B	11	45	No Gas	22.071	ppb	10.5	3.718	>DL*2.2
Al	27	45	No Gas	<0.000	ppb	N/A	3.454	
Al	27	45	He	<0.000	ppb	N/A	3.454	
Ti	47	45	He	0.099	ppb	138.6	0.506	
V	51	45	He	0.033	ppb	25.3	0.616	
Cr	52	45	He	<0.000	ppb	N/A	0.088	
Mn	55	72	No Gas	0.099	ppb	12.0	0.11	
Mn	55	72	He	<0.000	ppb	N/A	0.11	
Fe	56	72	He	<0.000	ppb	N/A	3.498	
Fe	56	72	HEHe	<0.000	ppb	N/A	3.498	
Fe	57	72	He	<0.000	ppb	N/A	3.498	
Co	59	72	He	<0.000	ppb	N/A	0.044	
Ni	60	72	He	<0.000	ppb	N/A	0.176	
Ni	62	72	He	<0.000	ppb	N/A	0.176	
Cu	65	72	He	<0.000	ppb	N/A	0.066	
Zn	66	72	He	<0.000	ppb	N/A	0.66	
As	75	72	He	<0.000	ppb	N/A	0.132	
Se	78	72	He	0.589	ppb	70.9	0.374	>DL*2.2
Sr	88	72	No Gas	0.037	ppb	20.5	0.044	
Sr	88	72	He	0.174	ppb	19.1	0.044	>DL*2.2
Mo	95	103	No Gas	0.446	ppb	9.0	0.11	>DL*2.2
Mo	95	103	He	0.299	ppb	30.0	0.11	>DL*2.2
Mo	98	103	No Gas	0.427	ppb	6.2	0.11	>DL*2.2
Mo	98	103	He	0.350	ppb	9.0	0.11	>DL*2.2
Ag	107	103	No Gas	0.003	ppb	79.1	0.066	
Ag	107	103	He	0.009	ppb	33.9	0.066	
Ag	109	103	No Gas	0.003	ppb	110.9	0.066	
Ag	109	103	He	0.005	ppb	84.5	0.066	
Cd	111	103	No Gas	<0.000	ppb	N/A	0.022	
Cd	111	103	He	0.003	ppb	143.5	0.022	
Cd	114	103	No Gas	0.011	ppb	108.8	0.022	
Cd	114	103	He	<0.000	ppb	N/A	0.022	

Continuing Calibration Blank (CCB) Report

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	Limit	QC Flag
Ba	137	165	No Gas	<0.000	ppb	N/A	0.11	
Ba	137	165	He	0.022	ppb	63.6	0.11	
Hg	201	165	No Gas	0.024	ppb	32.4	0.022	>DL*2.2
Hg	201	165	He	0.018	ppb	52.8	0.022	
Hg	202	165	No Gas	0.011	ppb	62.8	0.022	
Hg	202	165	He	0.022	ppb	67.5	0.022	>DL*2.2
Tl	205	165	No Gas	<0.000	ppb	N/A	0.11	
Tl	205	165	He	<0.000	ppb	N/A	0.11	
Pb	208	165	No Gas	<0.000	ppb	N/A	0.088	
Pb	208	165	He	<0.000	ppb	N/A	0.088	
U	238	165	No Gas	0.003	ppb	37.0	0.11	
U	238	165	He	0.005	ppb	39.8	0.11	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	579921.02	3.8	132.9	436284.266666667
Sc	45	No Gas	788986.98	7.8	102.7	768443.02
Sc	45	He	95269.19	6.4	102.0	93438.6833333333
Ge	72	No Gas	372433.19	2.9	94.1	395604.69
Ge	72	He	109488.49	5.4	99.1	110507.816666667
Ge	72	HEHe	54735.78	0.5	97.0	56406.0466666667
Rh	103	No Gas	1169661.21	4.2	92.4	1266499.25
Rh	103	He	682670.03	4.5	92.4	738835.753333333
Ho	165	No Gas	368975.47	5.2	84.7	435570.666666667
Ho	165	He	211086.04	4.7	90.3	233748.99

Sample Report

Sample Name wba0800-17
File Name 059SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:40:46
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.051	He	0.051	72	21.0	1000	
208	Pb	0.171	No Gas	0.171	165	12.7	1000	
208	Pb	0.056	He	0.056	165	1.7	1000	
238	U	0.012	No Gas	0.012	165	8.7	1000	
238	U	0.008	He	0.008	165	19.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	692669.77	1.6	90.1	768443.02
Sc	45	He	72879.25	8.0	78.0	93438.6833333333
Ge	72	No Gas	325925.58	0.7	82.4	395604.69
Ge	72	He	85475.83	5.2	77.3	110507.816666667
Ge	72	HEHe	49283.41	3.4	87.4	56406.0466666667
Rh	103	No Gas	961149.31	1.2	75.9	1266499.25
Rh	103	He	546413.62	3.7	74.0	738835.753333333
Ho	165	No Gas	339305.04	1.1	77.9	435570.666666667
Ho	165	He	173768.96	4.1	74.3	233748.99

Sample Report

Sample Name wba0800-18
File Name 060SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:43:05
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.928	He	1.928	72	9.3	1000	
208	Pb	0.382	No Gas	0.382	165	3.6	1000	
208	Pb	0.707	He	0.707	165	9.4	1000	
238	U	0.225	No Gas	0.225	165	6.0	1000	
238	U	0.246	He	0.246	165	8.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	619381.29	1.6	80.6	768443.02
Sc	45	He	60920.11	7.9	65.2	93438.6833333333
Ge	72	No Gas	275955.47	1.1	69.8	395604.69
Ge	72	He	67852.22	6.8	61.4	110507.816666667
Ge	72	HEHe	42496.49	1.3	75.3	56406.0466666667
Rh	103	No Gas	748416.31	1.3	59.1	1266499.25
Rh	103	He	393473.56	4.9	53.3	738835.7533333333
Ho	165	No Gas	280847.47	2.7	64.5	435570.666666667
Ho	165	He	132248.28	4.1	56.6	233748.99

Sample Report

Sample Name wba0800-19
File Name 061SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:45:24
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	12.515	He	12.515	72	8.3	1000	
208	Pb	0.490	No Gas	0.49	165	5.3	1000	
208	Pb	0.517	He	0.517	165	5.6	1000	
238	U	1.078	No Gas	1.078	165	1.9	1000	
238	U	1.126	He	1.126	165	7.4	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	622736.58	2.4	81.0	768443.02
Sc	45	He	63518.65	9.2	68.0	93438.6833333333
Ge	72	No Gas	275829.47	1.3	69.7	395604.69
Ge	72	He	71012.90	8.4	64.3	110507.816666667
Ge	72	HEHe	42138.62	2.5	74.7	56406.0466666667
Rh	103	No Gas	748756.48	1.9	59.1	1266499.25
Rh	103	He	397840.99	6.9	53.8	738835.7533333333
Ho	165	No Gas	270179.03	2.0	62.0	435570.666666667
Ho	165	He	131197.32	7.3	56.1	233748.99

Sample Report

Sample Name wba0800-20
File Name 062SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:47:44
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.991	He	1.991	72	3.9	1000	
208	Pb	0.186	No Gas	0.186	165	19.9	1000	
208	Pb	0.187	He	0.187	165	6.7	1000	
238	U	0.268	No Gas	0.268	165	3.1	1000	
238	U	0.269	He	0.269	165	7.7	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	764013.29	1.2	99.4	768443.02
Sc	45	He	75314.56	7.9	80.6	93438.6833333333
Ge	72	No Gas	341052.73	1.1	86.2	395604.69
Ge	72	He	86717.62	7.0	78.5	110507.816666667
Ge	72	HEHe	51026.27	3.0	90.5	56406.0466666667
Rh	103	No Gas	929841.56	0.5	73.4	1266499.25
Rh	103	He	501443.03	4.9	67.9	738835.753333333
Ho	165	No Gas	324955.38	0.7	74.6	435570.666666667
Ho	165	He	163665.24	6.1	70.0	233748.99

Sample Report

Sample Name wba0800-21
File Name 063SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:50:03
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.033	He	0.033	72	7.1	1000	
208	Pb	0.181	No Gas	0.181	165	14.3	1000	
208	Pb	0.153	He	0.153	165	5.3	1000	
238	U	0.011	No Gas	0.011	165	15.6	1000	
238	U	0.013	He	0.013	165	22.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	776727.98	2.6	101.1	768443.02
Sc	45	He	76731.65	5.5	82.1	93438.6833333333
Ge	72	No Gas	350530.64	2.0	88.6	395604.69
Ge	72	He	90543.64	4.7	81.9	110507.816666667
Ge	72	HEHe	51497.96	2.3	91.3	56406.0466666667
Rh	103	No Gas	1023845.62	3.0	80.8	1266499.25
Rh	103	He	562583.55	3.7	76.1	738835.753333333
Ho	165	No Gas	340602.66	0.9	78.2	435570.666666667
Ho	165	He	170972.02	4.3	73.1	233748.99

Sample Report

Sample Name wba0800-22
File Name 064SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:52:21
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.111	He	0.111	72	14.0	1000	
208	Pb	0.173	No Gas	0.173	165	13.4	1000	
208	Pb	0.142	He	0.142	165	10.2	1000	
238	U	0.016	No Gas	0.016	165	9.7	1000	
238	U	0.016	He	0.016	165	56.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	758222.34	3.1	98.7	768443.02
Sc	45	He	73599.34	5.8	78.8	93438.6833333333
Ge	72	No Gas	345997.20	0.9	87.5	395604.69
Ge	72	He	88473.51	4.1	80.1	110507.816666667
Ge	72	HEHe	50035.95	0.9	88.7	56406.0466666667
Rh	103	No Gas	973160.58	0.5	76.8	1266499.25
Rh	103	He	532868.59	3.6	72.1	738835.7533333333
Ho	165	No Gas	340816.07	2.0	78.2	435570.666666667
Ho	165	He	171454.69	3.8	73.3	233748.99

Reference Sample Report

Sample Name wba0800-23
File Name 065_ARF.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:54:42
Sample Type AllRef
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator Metals

QC Analyte Table

Mass	Name	Conc.	Raw Conc.	ISTD	Tune Mode	Conc. RSD	LDR	QC Flag
75	As	2.326	2.326	72	He	5.7	1000	
208	Pb	0.190	0.19	165	No Gas	34.0	1000	
208	Pb	0.206	0.206	165	He	32.6	1000	
238	U	0.315	0.315	165	No Gas	5.3	1000	
238	U	0.331	0.331	165	He	7.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	729082.96	2.0	94.9	768443.02
Sc	45	He	70711.72	7.8	75.7	93438.6833333333
Ge	72	No Gas	328431.71	1.3	83.0	395604.69
Ge	72	He	82210.10	6.3	74.4	110507.816666667
Ge	72	HEHe	48595.31	1.6	86.2	56406.0466666667
Rh	103	No Gas	903946.73	1.6	71.4	1266499.25
Rh	103	He	495591.66	5.1	67.1	738835.753333333
Ho	165	No Gas	331826.62	1.1	76.2	435570.666666667
Ho	165	He	165357.42	5.0	70.7	233748.99

Laboratory Fortified Matrix Sample (LFM) Report

Sample Name bbb0124-ms3
File Name 066_LFM.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:57:00
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
QC Ref File Name 065_
Default Text ARF.
Metals

QC Analyte Table

Mass	Name	Conc.	Tune	Conc. RSD	Ref Conc	Spk Amt	% Rec	%Low	%High	Flag
75	As	48.770	He	1.3	2.32637531172008	50	92.89	70	130	
208	Pb	46.986	No Gas	4.9	0.189968507806844	50	93.59	70	130	
208	Pb	49.387	He	0.3	0.20599628757346	50	98.36	70	130	
238	U	48.755	No Gas	2.8	0.314704008709196	50	96.88	70	130	
238	U	51.527	He	0.4	0.330685741494244	50	102.39	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	739769.77	1.4	96.3	768443.02
Sc	45	He	73302.13	4.3	78.4	93438.6833333333
Ge	72	No Gas	338918.14	0.9	85.7	395604.69
Ge	72	He	87116.69	5.1	78.8	110507.816666667
Ge	72	HEHe	50042.86	1.3	88.7	56406.0466666667
Rh	103	No Gas	960893.83	0.5	75.9	1266499.25
Rh	103	He	535784.91	4.2	72.5	738835.753333333
Ho	165	No Gas	340026.82	0.7	78.1	435570.666666667
Ho	165	He	172395.76	4.3	73.8	233748.99

LFM Duplicate (LFMD) Sample Report

Sample Name bbb0124-msd3
File Name 067LFMD.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 12:59:19
Sample Type LFMDup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD Ref FileName Pass
QC Ref File Name 066_
Default Text LFM.
Metals d

QC Analyte Table

Mass	Name	Conc.	Tune	Conc. RSD	Ref Conc	RPD	RPD Max	Flag
75	As	50.303	He	1.1	48.7699051646552	3.09	20	
208	Pb	48.541	No Gas	3.2	46.9863827442646	3.26	20	
208	Pb	50.389	He	1.4	49.3866492276521	2.01	20	
238	U	49.862	No Gas	2.5	48.7549494245291	2.25	20	
238	U	52.537	He	0.4	51.5273675356994	1.94	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				436284.266666667
Sc	45	No Gas	740100.88	2.4	96.3	768443.02
Sc	45	He	70799.51	5.2	75.8	93438.6833333333
Ge	72	No Gas	341063.78	1.6	86.2	395604.69
Ge	72	He	84863.84	5.1	76.8	110507.816666667
Ge	72	HEHe	48334.72	2.4	85.7	56406.0466666667
Rh	103	No Gas	972522.04	1.1	76.8	1266499.25
Rh	103	He	520923.35	4.8	70.5	738835.753333333
Ho	165	No Gas	345175.66	0.6	79.2	435570.666666667
Ho	165	He	171184.63	4.3	73.2	233748.99

Sample Report

Sample Name Rinse
File Name 068_RIN.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 13:01:39
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator TRC

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	502652.16	2.2	115.2	436284.266666667
Sc	45	No Gas	790681.54	1.0	102.9	768443.02
Sc	45	He	86136.46	6.8	92.2	93438.6833333333
Ge	72	No Gas	358958.09	0.6	90.7	395604.69
Ge	72	He	100722.13	5.7	91.1	110507.816666667
Ge	72	HEHe	52970.27	1.0	93.9	56406.0466666667
Rh	103	No Gas	1046149.77	0.7	82.6	1266499.25
Rh	103	He	633522.39	4.7	85.7	738835.753333333
Ho	165	No Gas	360726.44	2.1	82.8	435570.666666667
Ho	165	He	204454.29	7.0	87.5	233748.99

Continuing Calibration Verification (CCV) Report

Sample Name CCV
File Name 069_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 13:04:59
Sample Type CCV
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Pass
Operator Metals

QC Analyte Table

Mass	Name	Conc.	Tune Mode	ISTD	Conc. RSD	ExpValue	% Rec	%QC Low	%QC High	QC Flag
7	Li	50.364	No Gas	6	1.5	50	100.73	90	110	.
9	Be	46.000	No Gas	6	3.0	50	92	90	110	.
11	B	64.285	No Gas	45	5.1	50	128.57	90	110	> +/- 10%
27	Al	111.090	No Gas	45	2.3	100	111.09	90	110	> +/- 10%
27	Al	103.111	He	45	1.2	100	103.11	90	110	.
47	Ti	47.890	He	45	3.4	50	95.78	90	110	.
51	V	49.871	He	45	2.2	50	99.74	90	110	.
52	Cr	47.870	He	45	2.5	50	95.74	90	110	.
55	Mn	51.866	No Gas	72	2.3	50	103.73	90	110	.
55	Mn	49.570	He	72	0.5	50	99.14	90	110	.
56	Fe	95.388	He	72	1.0	100	95.39	90	110	.
56	Fe	98.207	HEHe	72	0.6	100	98.21	90	110	.
57	Fe	95.100	He	72	3.3	100	95.1	90	110	.
59	Co	47.878	He	72	2.5	50	95.76	90	110	.
60	Ni	44.603	He	72	0.1	50	89.21	90	110	> +/- 10%
62	Ni	45.454	He	72	4.9	50	90.91	90	110	.
65	Cu	47.549	He	72	3.6	50	95.1	90	110	.
66	Zn	47.926	He	72	2.0	50	95.85	90	110	.
75	As	48.444	He	72	1.3	50	96.89	90	110	.
78	Se	50.667	He	72	2.2	50	101.33	90	110	.
88	Sr	49.707	No Gas	72	1.8	50	99.41	90	110	.
88	Sr	50.026	He	72	0.8	50	100.05	90	110	.
95	Mo	46.525	No Gas	103	2.6	50	93.05	90	110	.
95	Mo	48.763	He	103	1.4	50	97.53	90	110	.
98	Mo	47.238	No Gas	103	4.0	50	94.48	90	110	.
98	Mo	49.016	He	103	0.7	50	98.03	90	110	.
107	Ag	48.219	No Gas	103	0.7	50	96.44	90	110	.
107	Ag	49.748	He	103	1.5	50	99.5	90	110	.
109	Ag	48.543	No Gas	103	1.2	50	97.09	90	110	.
109	Ag	49.651	He	103	0.3	50	99.3	90	110	.
111	Cd	48.949	No Gas	103	1.0	50	97.9	90	110	.
111	Cd	49.547	He	103	1.2	50	99.09	90	110	.
114	Cd	48.580	No Gas	103	1.0	50	97.16	90	110	.
114	Cd	50.712	He	103	2.2	50	101.42	90	110	.

Continuing Calibration Verification (CCV) Report

Mass	Name	Conc.	Tune Mode	ISTD	Conc. RSD	ExpValue	% Rec	%QC Low	%QC High	QC Flag
137	Ba	51.128	No Gas	165	3.4	50	102.26	90	110	.
137	Ba	51.821	He	165	1.1	50	103.64	90	110	.
201	Hg	2.461	No Gas	165	2.4	2.5	98.44	90	110	.
201	Hg	2.458	He	165	4.1	2.5	98.32	90	110	.
202	Hg	2.425	No Gas	165	1.8	2.5	97	90	110	.
202	Hg	2.490	He	165	3.3	2.5	99.6	90	110	.
205	Tl	49.845	No Gas	165	1.1	50	99.69	90	110	.
205	Tl	49.679	He	165	0.6	50	99.36	90	110	.
208	Pb	49.062	No Gas	165	1.4	50	98.12	90	110	.
208	Pb	49.377	He	165	1.0	50	98.75	90	110	.
238	U	49.910	No Gas	165	1.8	50	99.82	90	110	.
238	U	49.341	He	165	0.6	50	98.68	90	110	.

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	522084.03	1.9	119.7	436284.266666667
Sc	45	No Gas	764352.46	2.2	99.5	768443.02
Sc	45	He	88910.11	7.1	95.2	93438.6833333333
Ge	72	No Gas	354578.66	1.5	89.6	395604.69
Ge	72	He	103826.69	7.2	94.0	110507.816666667
Ge	72	HEHe	53976.34	1.0	95.7	56406.0466666667
Rh	103	No Gas	1117078.25	2.0	88.2	1266499.25
Rh	103	He	662215.44	4.5	89.6	738835.753333333
Ho	165	No Gas	368520.42	0.3	84.6	435570.666666667
Ho	165	He	210084.03	6.6	89.9	233748.99

Continuing Calibration Blank (CCB) Report

Sample Name CCB
File Name 070_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02052021.b
Acq Time 2021-02-05 13:08:20
Sample Type CCB
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Fail
Operator Metals

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Units	Conc. RSD	Limit	QC Flag
Li	7	6	No Gas	<0.000	ppb	N/A	1.1	
Be	9	6	No Gas	0.004	ppb	110.7	0.11	
B	11	45	No Gas	17.952	ppb	9.2	3.718	>DL*2.2
Al	27	45	No Gas	<0.000	ppb	N/A	3.454	
Al	27	45	He	<0.000	ppb	N/A	3.454	
Ti	47	45	He	0.004	ppb	2134.5	0.506	
V	51	45	He	0.034	ppb	72.9	0.616	
Cr	52	45	He	<0.000	ppb	N/A	0.088	
Mn	55	72	No Gas	0.108	ppb	27.8	0.11	
Mn	55	72	He	<0.000	ppb	N/A	0.11	
Fe	56	72	He	<0.000	ppb	N/A	3.498	
Fe	56	72	HEHe	<0.000	ppb	N/A	3.498	
Fe	57	72	He	<0.000	ppb	N/A	3.498	
Co	59	72	He	<0.000	ppb	N/A	0.044	
Ni	60	72	He	<0.000	ppb	N/A	0.176	
Ni	62	72	He	<0.000	ppb	N/A	0.176	
Cu	65	72	He	<0.000	ppb	N/A	0.066	
Zn	66	72	He	<0.000	ppb	N/A	0.66	
As	75	72	He	<0.000	ppb	N/A	0.132	
Se	78	72	He	1.130	ppb	32.2	0.374	>DL*2.2
Sr	88	72	No Gas	0.008	ppb	68.5	0.044	
Sr	88	72	He	0.035	ppb	54.0	0.044	
Mo	95	103	No Gas	0.404	ppb	16.5	0.11	>DL*2.2
Mo	95	103	He	0.284	ppb	10.9	0.11	>DL*2.2
Mo	98	103	No Gas	0.382	ppb	14.8	0.11	>DL*2.2
Mo	98	103	He	0.340	ppb	21.0	0.11	>DL*2.2
Ag	107	103	No Gas	0.003	ppb	205.6	0.066	
Ag	107	103	He	0.006	ppb	79.1	0.066	
Ag	109	103	No Gas	0.008	ppb	77.0	0.066	
Ag	109	103	He	<0.000	ppb	N/A	0.066	
Cd	111	103	No Gas	<0.000	ppb	N/A	0.022	
Cd	111	103	He	0.004	ppb	6.8	0.022	
Cd	114	103	No Gas	<0.000	ppb	N/A	0.022	
Cd	114	103	He	<0.000	ppb	N/A	0.022	

Report Generated By Teledyne CETAC QuickTrace

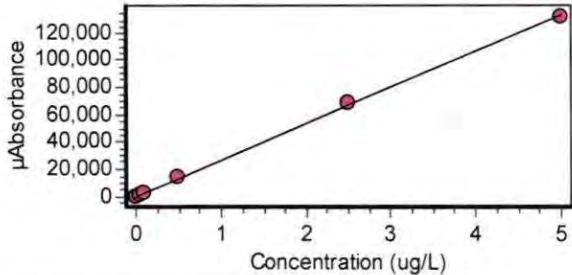
Analyst: Mercury

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02102021-245.wszf

Creation Date: 2/10/2021 9:26:55 AM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	02/10/21 10:09:27 am	0.0000	-126	52.49	-20.50		N/A
Replicates			-68.5	-76.0	-150.4	-207.5		
Standard #1 (0.05 ppb)	STD	02/10/21 10:11:43 am	0.0500	1468	5.57	-10.22		N/A
Replicates			1534.6	1514.4	1470.6	1351.9		
Standard #2 (0.1 ppb)	STD	02/10/21 10:14:00 am	0.1000	2975	3.29	-3.20		N/A
Replicates			3035.5	3054.5	2972.3	2837.8		
Standard #3 (0.5 ppb)	STD	02/10/21 10:16:17 am	0.5000	13778	2.90	5.49		N/A
Replicates			14089.3	14050.7	13749.9	13223.1		
Standard #4 (2.5 ppb)	STD	02/10/21 10:18:34 am	2.5000	73756	2.66	274.49		N/A
Replicates			75513.6	74986.9	73379.5	71144.0		
Standard #5 (5 ppb)	STD	02/10/21 10:20:52 am	5.0000	131812	3.17	-29.20		N/A
Replicates			135543.6	134476.2	130946.7	126282.9		
Replacement: Standard #4 (2.5 ppb)	STD	02/10/21 10:30:21 am	2.5000	68024	2.62	0.00		N/A
Replicates			69478.9	69213.8	67824.6	65578.1		
Calibration								
Equation:	$A = 416.334 + 26433.583C$							
R2:	0.99977							
SEE:	909.9290							
Flags:								
								
CCV (95-105%)	OPR	02/10/21 10:34:11 am	2.5610	68106	3.10			102.43
Replicates			69946.4	69456.8	67714.7	65304.2		
CCB	CCB	02/10/21 10:36:27 am	-0.0131	69	18.01			N/A
Replicates			110.6	129.7	40.7	-5.3		
ICV	ICV	02/10/21 10:38:43 am	1.9550	52088	2.24			97.74
Replicates			53399.9	51684.4	50709.3	52558.3		
bbb0202-blk1	MB	02/10/21 10:40:59 am	0.0017	460	110.05			N/A
Replicates			475.2	432.0	412.6	521.1		
bbb0202-blk2	MB	02/10/21 10:43:15 am	0.0087	646	27.51			N/A
Replicates			682.0	618.0	572.0	712.5		
bbb0202-bs2	LCS	02/10/21 10:45:31 am	1.8490	49290	2.86			92.45
Replicates			49072.9	47898.0	48955.0	51235.3		

Sample Name			Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
bbb0202-bs1			LCS	02/10/21 10:47:48 am	1.8770	50021	2.63			93.83
Replicates	51816.4	50154.5		49085.7 49025.9						
wba0800-01			UNK	02/10/21 10:50:04 am	0.0148	807	16.48			N/A
Replicates	818.7	749.0		768.5 893.5						
wba0800-02			UNK	02/10/21 10:52:21 am	0.0302	1214	30.10			N/A
Replicates	986.8	1073.2		1267.5 1527.9						
bbb0202-ms1			UNK	02/10/21 10:54:38 am	2.0120	53613	5.00			N/A
Replicates	50594.6	52236.9		55284.9 56336.0						
bbb0202-msd1			UNK	02/10/21 10:56:55 am	1.9670	52420	3.40			N/A
Replicates	54623.0	53008.6		51400.8 50647.8						
wba0800-03			UNK	02/10/21 10:59:12 am	0.0377	1413	5.27			N/A
Replicates	1473.3	1433.2		1396.8 1350.0						
wba0800-04			UNK	02/10/21 11:01:29 am	0.0527	1810	18.93			N/A
Replicates	1564.3	1646.5		1879.0 2152.0						
wba0800-05			UNK	02/10/21 11:03:47 am	0.0360	1367	5.43			N/A
Replicates	1372.2	1339.0		1320.5 1437.9						
wba0800-06			UNK	02/10/21 11:06:03 am	0.0300	1210	4.81			N/A
Replicates	1257.1	1225.3		1182.8 1175.7						
wba0800-07			UNK	02/10/21 11:08:19 am	0.0182	898	34.36			N/A
Replicates	752.3	781.3		949.8 1109.5						
wba0800-08			UNK	02/10/21 11:10:35 am	0.0103	688	31.79			N/A
Replicates	673.6	617.1		649.3 813.3						
wba0800-09			UNK	02/10/21 11:12:51 am	0.0141	790	9.69			N/A
Replicates	811.5	766.7		752.7 829.2						
wba0800-10			UNK	02/10/21 11:15:08 am	0.0192	924	28.58			N/A
Replicates	825.6	811.1		932.3 1125.4						
CCV			CCV	02/10/21 11:17:25 am	2.6370	70125	2.87			105.48
Replicates	71864.2	71437.4		69733.5 67464.7						
CCB			CCB	02/10/21 11:19:41 am	0.0146	803	11.74	Q		N/A
Replicates	850.6	827.3		783.3 749.0						
wba0800-11			UNK	02/10/21 11:30:59 am	-0.0049	287	23.91			N/A
Replicates	329.0	270.7		257.7 289.0						
wba0800-12			UNK	02/10/21 11:33:16 am	0.0143	795	9.67			N/A
Replicates	842.4	805.3		774.8 759.3						
bbb0202-ms2			UNK	02/10/21 11:36:03 am	1.8920	50439	3.83			N/A
Replicates	52922.1	50954.8		49155.5 48724.1						
bbb0202-msd2			UNK	02/10/21 11:38:20 am	1.8430	49127	2.50			N/A
Replicates	49639.9	48031.8		48232.7 50603.8						
wba0800-13			UNK	02/10/21 11:40:37 am	0.0061	577	27.57			N/A
Replicates	632.7	591.1		543.7 538.9						

Sample Name			Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
wba0800-14			UNK	02/10/21 11:42:54 am	0.0221	1000	5.56			N/A
Replicates	1041.7	1005.1		964.6 988.2						
wba0800-15			UNK	02/10/21 11:45:12 am	0.0433	1561	7.01			N/A
Replicates	1546.3	1506.6		1512.8 1678.5						
wba0800-16			UNK	02/10/21 11:47:28 am	0.0194	930	9.61			N/A
Replicates	909.0	897.6		910.3 1003.8						
wba0800-17			UNK	02/10/21 11:49:44 am	0.0280	1158	9.62			N/A
Replicates	1239.7	1194.8		1103.3 1093.0						
bbb0202-ms3			UNK	02/10/21 11:52:00 am	2.1610	57540	2.11			N/A
Replicates	58259.8	56663.1		56383.5 58853.0						
bbb0202-msd3			UNK	02/10/21 11:54:16 am	2.1140	56295	2.06			N/A
Replicates	57819.0	56065.6		55037.2 56256.6						
wba0800-18			UNK	02/10/21 11:56:33 am	0.1195	3575	4.71			N/A
Replicates	3740.0	3642.9		3517.4 3398.2						
wba0800-19			UNK	02/10/21 11:58:49 am	0.1261	3749	4.43			N/A
Replicates	3892.8	3831.4		3714.9 3557.1						
wba0800-20			UNK	02/10/21 12:01:06 pm	0.1179	3533	4.34			N/A
Replicates	3682.9	3598.6		3472.6 3377.0						
CCV			CCV	02/10/21 12:03:23 pm	2.6280	69888	3.11			105.13
Replicates	71966.7	71160.4		69309.0 67115.4						
CCB			CCB	02/10/21 12:05:40 pm	0.0031	499	63.35			N/A
Replicates	546.7	524.6		496.6 426.7						
wba0800-21			UNK	02/10/21 12:07:56 pm	0.1422	4177	4.79			N/A
Replicates	4333.1	4302.3		4128.0 3942.6						
wba0800-22			UNK	02/10/21 12:10:13 pm	0.1307	3872	4.87			N/A
Replicates	4056.4	3955.1		3802.8 3673.8						
wba0800-23			UNK	02/10/21 12:12:30 pm	0.1158	3476	3.20			N/A
Replicates	3592.6	3474.3		3353.0 3484.5						
wba0807-01			UNK	02/10/21 12:14:48 pm	0.1251	3723	3.95			N/A
Replicates	3890.8	3704.2		3572.7 3725.6						
bbb0202-bs1			LCS	02/10/21 12:17:05 pm	1.9720	52533	4.22			98.58
Replicates	51284.4	50658.3		52580.5 55608.6						
CCV			CCV	02/10/21 12:19:22 pm	2.6150	69546	3.26			104.61
Replicates	71727.0	70851.9		68966.4 66637.1						
CCB			CCB	02/10/21 12:21:39 pm	0.0108	702	22.03			N/A
Replicates	773.4	729.2		677.9 628.0						
ICV			ICV	02/10/21 12:23:55 pm	2.0760	55294	3.14			103.80
Replicates	57229.2	56097.6		54537.8 53312.6						
icv			ICV	02/10/21 01:56:39 pm	1.9500	51965	6.09			97.51
Replicates	49413.2	49563.5		52856.7 56026.8						

Sample Name		Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	% Recovery
wba0800-12		UNK	02/10/21 01:58:55 pm	0.0038	518	87.30			N/A
Replicates	410.6	489.4	554.1	617.9					
wba0800-18		UNK	02/10/21 02:01:11 pm	0.1308	3873	6.30			N/A
Replicates	3699.4	3695.4	3949.2	4146.5					
wba0800-19		UNK	02/10/21 02:03:28 pm	0.1322	3911	3.03			N/A
Replicates	3945.0	3795.2	3862.5	4040.5					
wba0800-20		UNK	02/10/21 02:05:44 pm	0.1269	3770	2.33			N/A
Replicates	3879.3	3743.7	3695.1	3762.6					
wba0800-21		UNK	02/10/21 02:08:01 pm	0.1607	4664	3.39			N/A
Replicates	4843.0	4713.5	4576.5	4522.5					
wba0800-22		UNK	02/10/21 02:10:17 pm	0.1382	4068	3.90			N/A
Replicates	4021.5	3959.3	4014.7	4278.0					
wba0800-23		UNK	02/10/21 02:12:34 pm	0.1204	3598	4.26			N/A
Replicates	3734.6	3671.5	3560.1	3425.8					
wba0807-01		UNK	02/10/21 02:14:51 pm	0.1429	4193	4.15			N/A
Replicates	4405.5	4216.0	4082.5	4067.2					

Notes

Analyst:

Lamp Current:

High Standard mirco Abs:

Report Generated By Teledyne CETAC QuickTrace

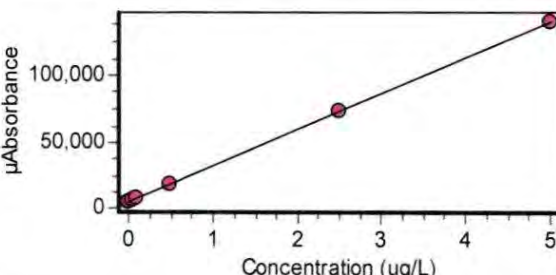
Analyst: Mercury

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02122021-245.wszf

Creation Date: 2/12/2021 2:56:08 PM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	02/12/21 03:05:39 pm	0.0000	5028	2.88	11.81		N/A
Replicates			5152.8	5127.6	4991.5	4838.3		
Standard #1 (0.05 ppb)	STD	02/12/21 03:07:55 pm	0.0500	5928	3.27	-5.15		N/A
Replicates			6081.1	6066.6	5897.6	5665.6		
Standard #2 (0.1 ppb)	STD	02/12/21 03:10:12 pm	0.1000	7170	3.16	-9.56		N/A
Replicates			7352.8	7328.9	7133.9	6863.1		
Standard #3 (0.5 ppb)	STD	02/12/21 03:12:29 pm	0.5000	17833	2.87	-18.15		N/A
Replicates			18253.5	18169.0	17777.8	17132.6		
Standard #4 (2.5 ppb)	STD	02/12/21 03:14:46 pm	2.5000	79739	2.78	254.16		N/A
Replicates			81521.8	81282.5	79430.2	76720.4		
Standard #5 (5 ppb)	STD	02/12/21 03:17:04 pm	5.0000	140462	2.74	-16.94		N/A
Replicates			143512.5	143097.3	140079.0	135157.6		
Replacement: Standard #4 (2.5 ppb)	STD	02/12/21 03:22:22 pm	2.5000	73850	2.83	0.00		N/A
Replicates			75534.9	75251.4	73626.9	70984.9		
Calibration								
Equation: $A = 4705.883 + 27243.434C$								
R2: 0.99989								
SEE: 655.6845								
Flags:								
								
CCV (95-105%)	OPR	02/12/21 03:28:17 pm	2.5270	73540	3.11			101.06
Replicates			75346.8	74976.3	73171.8	70664.3		
CCB	CCB	02/12/21 03:30:33 pm	0.0064	4880	99.43			N/A
Replicates			5024.9	4992.6	4856.1	4644.9		
ICV	ICV	02/12/21 03:32:49 pm	1.9920	58974	3.41			99.60
Replicates			60735.4	60102.3	58453.8	56603.8		
bbb0350-blk1	MB	02/12/21 03:35:05 pm	-0.0146	4308	65.78			N/A
Replicates			4058.0	4142.8	4396.3	4636.1		
bbb0350-bs1	LCS	02/12/21 03:37:21 pm	1.9010	56488	3.44			95.04
Replicates			56169.7	54746.8	56063.5	58974.0		
wba0800-12	UNK	02/12/21 03:39:38 pm	-0.0123	4371	61.11			N/A
Replicates			4605.9	4461.0	4279.5	4139.3		

Report Generated By Teledyne CETAC QuickTrace

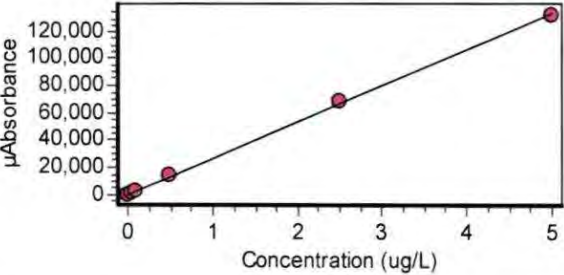
Analyst: Mercury

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02102021-245.wszf

Creation Date: 2/10/2021 9:26:55 AM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	02/10/21 10:09:27 am	0.0000	-126	52.49	-20.50		N/A
Replicates			-68.5	-76.0	-150.4	-207.5		
Standard #1 (0.05 ppb)	STD	02/10/21 10:11:43 am	0.0500	1468	5.57	-10.22		N/A
Replicates			1534.6	1514.4	1470.6	1351.9		
Standard #2 (0.1 ppb)	STD	02/10/21 10:14:00 am	0.1000	2975	3.29	-3.20		N/A
Replicates			3035.5	3054.5	2972.3	2837.8		
Standard #3 (0.5 ppb)	STD	02/10/21 10:16:17 am	0.5000	13778	2.90	5.49		N/A
Replicates			14089.3	14050.7	13749.9	13223.1		
Standard #4 (2.5 ppb)	STD	02/10/21 10:18:34 am	2.5000	73756	2.66	274.49		N/A
Replicates			75513.6	74986.9	73379.5	71144.0		
Standard #5 (5 ppb)	STD	02/10/21 10:20:52 am	5.0000	131812	3.17	-29.20		N/A
Replicates			135543.6	134476.2	130946.7	126282.9		
Replacement: Standard #4 (2.5 ppb)	STD	02/10/21 10:30:21 am	2.5000	68024	2.62	0.00		N/A
Replicates			69478.9	69213.8	67824.6	65578.1		
Calibration								
Equation:	$A = 416.334 + 26433.583C$							
R2:	0.99977							
SEE:	909.9290							
Flags:								
								
CCV (95-105%)	OPR	02/10/21 10:34:11 am	2.5610	68106	3.10			102.43
Replicates			69946.4	69456.8	67714.7	65304.2		
CCB	CCB	02/10/21 10:36:27 am	-0.0131	69	18.01			N/A
Replicates			110.6	129.7	40.7	-5.3		
ICV	ICV	02/10/21 10:38:43 am	1.9550	52088	2.24			97.74
Replicates			53399.9	51684.4	50709.3	52558.3		
bbb0202-bk1	MB	02/10/21 10:40:59 am	0.0017	460	110.05			N/A
Replicates			475.2	432.0	412.6	521.1		
bbb0202-bk2	MB	02/10/21 10:43:15 am	0.0087	646	27.51			N/A
Replicates			682.0	618.0	572.0	712.5		
bbb0202-bs2	LCS	02/10/21 10:45:31 am	1.8490	49290	2.86			92.45
Replicates			49072.9	47898.0	48955.0	51235.3		

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
wba0800-18		UNK	02/12/21 03:41:54 pm	-0.0141	4322	37.40			N/A
Replicates	4508.8	4355.4	4240.6	4183.4					
wba0800-19		UNK	02/12/21 03:44:11 pm	-0.1727	1	0.65			N/A
Replicates	-37.7	-5.7	16.3	32.5					
wba0800-19		UNK	02/12/21 03:47:16 pm	-0.0046	4581	143.28			N/A
Replicates	4795.7	4658.1	4462.3	4406.6					
wba0800-20		UNK	02/12/21 03:49:33 pm	0.0076	4914	77.62			N/A
Replicates	4872.5	4775.3	4859.8	5146.5					
wba0800-21		UNK	02/12/21 03:51:50 pm	0.0204	5262	73.20			N/A
Replicates	4760.6	5131.6	5457.3	5698.5					
wba0800-22		UNK	02/12/21 03:54:07 pm	-0.0010	4679	535.83			N/A
Replicates	4845.4	4745.5	4609.0	4514.5					
wba0800-23		UNK	02/12/21 03:56:24 pm	-0.0140	4325	34.13			N/A
Replicates	4496.6	4350.6	4249.5	4203.0					
wbb0307-01		UNK	02/12/21 03:58:42 pm	-0.0108	4411	35.48			N/A
Replicates	4528.8	4410.8	4274.3	4429.3					
bbb0350-ms1		UNK	02/12/21 04:00:59 pm	1.4240	43500	6.98			N/A
Replicates	40484.8	42099.2	44929.8	46487.2					
bbb0350-ms1		UNK	02/12/21 04:03:15 pm	1.7080	51247	5.75			N/A
Replicates	48653.0	49446.3	52485.1	54405.6					
bbb0350-msd1		UNK	02/12/21 04:06:32 pm	1.8850	56065	3.56			N/A
Replicates	57719.8	57216.7	55666.9	53658.5					
bbb0350-bs1		UNK	02/12/21 04:08:48 pm	1.3980	42789	7.28			N/A
Replicates	40645.4	40633.5	43421.6	46454.3					
CCV (95-105%)		CCV	02/12/21 04:11:05 pm	2.5180	73294	3.34			100.70
Replicates	75360.7	74755.9	72779.6	70280.1					
CCB		CCB	02/12/21 04:13:21 pm	-0.0004	4695	746.87			N/A
Replicates	4874.2	4808.9	4638.7	4459.2					
ICV		ICV	02/12/21 04:15:37 pm	1.9430	57634	4.18			97.14
Replicates	60215.7	58564.7	56571.4	55183.0					

Notes

Analyst:

Lamp Current:

High Standard mirco Abs:



AECOS, Inc.

45-939 Kamehameha Hwy, Suite 104 • Kaneohe, HI 96744

Telephone: (808) 234-7770 • Fax: (808) 234-7775 • aecos@aecos.com

CLIENT: Cardno-GS
737 Bishop Street, Suite 3050
Honolulu HI 96813
ATTENTION: Benjamin Berridge
Benjamin.Berridge@cardno-gs.com

FILE No.: 1494
REPORT DATE: 01/27/2021
PAGE: 1 of 1

AECOS REPORT OF RESULTS

SAMPLE TYPE: water AECOS LOG No.: 41787
DATE SAMPLED: 01/25/2021 DATE/TIME RECEIVED: 01/25/2021 @1500
TEMP. CONTROL: 14.2°C (*IR) SAMPLER: B. Berridge
CHLORINE RESIDUAL: not provided by client MATRIX: water
DATE/TIME ANALYZED: 01/25/2021 @1608-1615 ANALYST: R. Knapstein

ANALYTE (UNITS)		Enterococcus (MPN/100ml)	Dilution Factor (10 ml / 100 ml)	Number of large positive wells	Number of small positive wells
SAMPLE ID ↓	METHOD →	ASTM D650399	---	---	---
	TIME SAMPLED ↓				
WW-3	0900	380	10	26	2
D-3	0904	3800	10	48	27
E-1	0905	180	10	12	4
E-1 Dup	0905	74	10	6	1
U-3/WW-4	0905	1500	10	43	19
WW-2	0906	150	10	13	0
U-2/WW-5	0915	12,000	10	49	41
D-5	0920	520	10	28	8
DW-3	0917	760	10	35	10
DW-2	0924	3400	10	49	20
D-4	0930	1400	10	43	15
D-2	0930	2900	10	46	30
DW-1/WW-1	0935	400	10	24	6
E-2	0940	3400	10	49	20
D-8	0945	1900	10	47	15
D-7	0948	980	10	40	10
I-1	0950	280	10	19	4
WW-6	1010	680	10	32	11
D-6	1015	2100	10	47	18
D-6 Dup	1015	880	10	39	8

J. Mello, Laboratory Director



AECOS, Inc.

45-939 Kamehameha Highway Suite 104
Kaneohe, Oahu, HI 96744
Tel: (808) 234-7770 Fax: 234-7775

CHAIN OF CUSTODY FORM

PROJECT
FILE No.

LOG NUMBER

[041787]

CLIENT: *Cardno*

ADDRESS: *937 Bishop St Suite 2050*
Honolulu HI 96813

CONTACT: *Ben Berridge*

PHONE No.: *808-476-0007*

Purchase Order No.: _____

☐ RUSH

☐ SEE REVERSE

SPECIAL INSTRUCTIONS

SAMPLED

✓	SAMPLE ID	DATE	TIME	SAMPLE TYPE	CONTAINER(S)	REQUESTED ANALYSES	PRESERVATION
1	✓ WW-3	1/25/21	0900	W	1 idexx	entero	Oppt
2	✓ D-3	1/25/21	0904	W	1 idexx		Oppt
3	✓ E-1		0905				13 Oppt
4	✓ E-1 DUP		0905				13 Oppt
5	✓ U-3/WW-4		0905				0 321 ppt
6	✓ WW-2		0906				32 ppt
7	✓ U-2/WW-5		0915				Oppt
8	✓ D-5		0920				Oppt
9	✓ DW-3		0917				Oppt
10	✓ DW-2		0924				Oppt

CLIENTS PROVIDING SAMPLES TO THE LABORATORY SHOULD COMPLETE AS MUCH OF THE ABOVE FORM AS POSSIBLE, NOTE NAME AND DATED SIGNATURE OF PERSON COLLECTING THE SAMPLE MUST BE ENTERED BELOW INFORMATION REQUESTED IN SHADED BOXES ABOVE TO BE FILLED IN BY THE LABORATORY.

SAMPLED BY: *Ben Berridge* DATE *1/25* 20 *21*
PRINT NAME
RELINQUISHED: DATE *1/25/2021*
SIGNATURE: DATE *20* 21 TIME *1500*

RECEIVED BY: DATE *20*
SIGNATURE: TIME
RELINQUISHED: DATE *20*
SIGNATURE/INITIALS: TIME

RECEIVED FOR LABORATORY: DATE *1/25* 20 *21*
SIGNATURE: TIME *1500*
RELINQUISHED: DATE *20*
SIGNATURE/INITIALS: TIME

PRECAUTIONS:

DISPOSAL:

RETURN SAMPLE TO CLIENT ☐

COMMENTS: *fu overfilled*

USE (BLACK) INK

WW3 NO headspace

1.0 " WW2, D-5 W/ headspace

T= 14.2 °C

No temp controls provided, temp taken w/ Ir

2 WW5 gases in sample

all algae sticks

17 even (Pm)

submitting

checked w/ page 1 of 3

to lab for analysis



AECOS, Inc.

45-939 Kamehameha Highway Suite 104
Kaneohe, Oahu, HI 96744
Tel: (808) 234-7770 Fax: 234-7775

CHAIN OF CUSTODY FORM

PROJECT
FILE No.

LOG NUMBER

[41787]

CLIENT:

ADDRESS:

CONTACT:

PHONE No.:

Purchase Order No.:

☐ RUSH

☐ SEE REVERSE

SPECIAL INSTRUCTIONS

SAMPLED

DATE	TIME	SAMPLE TYPE	CONTAINER(S)	REQUESTED ANALYSES	PRESERVATION
12/1/20	0930	W	1 index	entire	
12/1/20	0930	W	1 index	entire	
12/1/20	0930	W	1 index	entire	
12/1/20	0935	W	1 index	entire	
12/1/20	0940	W	1 index	entire	
12/1/20	0945	W	1 index	entire	
12/1/20	0948	W	1 index	entire	
12/1/20	0950	W	1 index	entire	
12/1/20	10:10	W	1 index	entire	
12/1/20	10:15	W	1 index	entire	

CLIENTS PROVIDING SAMPLES TO THE LABORATORY SHOULD COMPLETE AS MUCH OF THE ABOVE FORM AS POSSIBLE. NOTE: NAME AND DATED SIGNATURE OF PERSON COLLECTING THE SAMPLE MUST BE ENTERED BELOW. INFORMATION REQUESTED IN SHADED BOXES ABOVE TO BE FILLED IN BY THE LABORATORY.

SAMPLED BY:

PRINT NAME: Ben Bertridge

RELINQUISHED:

SIGNATURE:

RECEIVED BY:

SIGNATURE:

RELINQUISHED:

SIGNATURE/INITIALS:

DATE

TIME

DATE

TIME

RECEIVED FOR LABORATORY:

SIGNATURE:

RELINQUISHED:

SIGNATURE/INITIALS:

DATE 1/25

TIME 20:21

DATE

TIME

COMMENTS:

04 algae bts
00 green
02 green

USE (BLACK) INK

DISPOSAL:

RETURN SAMPLE TO CLIENT ☐



AECOS, Inc.

45-939 Kamehameha Highway Suite 104

Kaneohe, Oahu, HI 96744

Tel: (808) 234-7770 Fax: 234-7775

CHAIN OF CUSTODY FORM

PROJECT
FILE No.

LOG NUMBER

[41787]

CLIENT:

ADDRESS:

CONTACT:

PHONE No.: ☎

Purchase Order No.:

☐ RUSH

☐ SEE REVERSE

SPECIAL INSTRUCTIONS

SAMPLED

	☒	SAMPLE ID	DATE	TIME	SAMPLE TYPE	CONTAINER(S)	REQUESTED ANALYSES	PRESERVATION
1		D-6 DUP	1/25/21	10:15	W	1 idex	Entero	992
2								
3								
4								
5								
6								
7								
8								
9								
10								

CLIENTS PROVIDING SAMPLES TO THE LABORATORY SHOULD COMPLETE AS MUCH OF THE ABOVE FORM AS POSSIBLE. NOTE: NAME AND DATED SIGNATURE OF PERSON COLLECTING THE SAMPLE MUST BE ENTERED BELOW. INFORMATION REQUESTED IN SHADED BOXES ABOVE TO BE FILLED IN BY THE LABORATORY.

SAMPLED BY:	DATE	1/25	2021
PRINT NAME	Ben Berwick	1/25/20	DATE
RELINQUISHED:	DATE	2021	TIME
SIGNATURE	15:00		
COMMENTS:			

RECEIVED BY:	DATE	20
SIGNATURE	TIME	DATE
RELINQUISHED:	DATE	20
SIGNATURE/INITIALS	TIME	

RECEIVED FOR LABORATORY:	DATE	1/25	2021
SIGNATURE	TIME	15:00	DATE
RELINQUISHED:	DATE	20	TIME
SIGNATURE/INITIALS	TIME		

DISPOSAL:

PRECAUTIONS:

RETURN SAMPLE TO CLIENT ☐

USE (BLACK) INK

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