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Client:	Cardno - Hawaii	Work Order:	WBI0069
Address:	737 Bishop St., Ste. 3050	Project:	ADC Water Quality Monitoring
	Honolulu, HI 96813	Reported:	11/2/2021 14:30
Attn:	Benjamin Berridge		

Case Narrative

Laboratory ID	Sample Name
WBI0069-01	D-4
WBI0069-02	D-5
WBI0069-03	WW-2
WBI0069-04	WW-3
WBI0069-05	E-1
WBI0069-06	E-2
WBI0069-07	D-6
WBI0069-08	D-7
WBI0069-09	DW-2
WBI0069-10	D-3
WBI0069-11	DW-3
WBI0069-12	D-2
WBI0069-13	D-8
WBI0069-14	U-2/WW-5
WBI0069-15	U-3/WW-4
WBI0069-16	DW-1/WW-3
WBI0069-17	Blank

QA/QC Checks

Parameters	Yes / No	Exceptions / Deviations
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

Mercury samples were anaylzed out of holding time.

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: D-4

Lab/Sample Number: WBI0069-01 Collect Date: 08/30/21 08:44

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	6.00	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00129	mg/L	0.0000600	0.00100	9/13/21 20:22	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 12:48	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 0:19	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 0:19	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 0:19	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 0:19	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*95.5%*		*50-150*		*9/8/21 0:19*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-5

Lab/Sample Number: WBI0069-02 Collect Date: 08/30/21 09:05

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	11.2	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00122	mg/L	0.0000600	0.00100	9/13/21 20:25	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 12:51	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 1:14	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 1:14	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 1:14	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 1:14	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*90.5%*		*50-150*		*9/8/21 1:14*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: WW-2

Lab/Sample Number: WBI0069-03 Collect Date: 08/30/21 09:23

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	36.0	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00340	mg/L	0.0000600	0.00100	9/13/21 20:29	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 12:53	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 2:10	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 2:10	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 2:10	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 2:10	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*91.1%*		*50-150*		*9/8/21 2:10*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: WW-3
Lab/Sample Number: WBI0069-04 Collect Date: 08/30/21 09:46
Date Received: 09/02/21 10:17 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	9.40	mg/L	0.200	0.200	9/2/21 14:00	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00196	mg/L	0.0000600	0.00100	9/13/21 20:32	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 12:55	TRC	EPA 245.1	H1
Semivolatiles								
AMPA	<2.00	ug/L	2.00	10.0	9/23/21 10:47	MER	EPA 547	*
Glyphosate	<1.00	ug/L	1.00	5.00	9/23/21 10:47	MER	EPA 547	*
Atrazine	<0.050	ug/L	0.0500	0.100	9/16/21 16:17	MAH	EPA 625.1	*
Chlorpyrifos	<0.050	ug/L	0.0500	0.100	9/16/21 16:17	MAH	EPA 625.1	*
Metolachlor	<0.050	ug/L	0.0500	0.100	9/16/21 16:17	MAH	EPA 625.1	*
Surrogate: Terphenyl-d14	*94.4%*		*25-135*		*9/16/21 16:17*	*MAH*	*EPA 625.1*	
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 4:00	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 4:00	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 4:00	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 4:00	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*92.5%*		*50-150*		*9/8/21 4:00*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: E-1

Lab/Sample Number: WBI0069-05 Collect Date: 08/30/21 09:30

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	22.8	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00198	mg/L	0.0000600	0.00100	9/13/21 20:42	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 12:57	TRC	EPA 245.1	H1
Semivolatiles								
AMPA	<2.00	ug/L	2.00	10.0	9/23/21 11:08	MER	EPA 547	*
Glyphosate	<1.00	ug/L	1.00	5.00	9/23/21 11:08	MER	EPA 547	*
Atrazine	<0.050	ug/L	0.0500	0.100	9/16/21 16:44	MAH	EPA 625.1	*
Chlorpyrifos	<0.050	ug/L	0.0500	0.100	9/16/21 16:44	MAH	EPA 625.1	*
Metolachlor	<0.050	ug/L	0.0500	0.100	9/16/21 16:44	MAH	EPA 625.1	*
Surrogate: Terphenyl-d14	*97.0%*		*25-135*		*9/16/21 16:44*	*MAH*	*EPA 625.1*	
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 6:46	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 6:46	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 6:46	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 6:46	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*92.0%*		*50-150*		*9/8/21 6:46*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: E-2
Lab/Sample Number: WBI0069-06 Collect Date: 08/30/21 09:55
Date Received: 09/02/21 10:17 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	58.8	mg/L	0.400	0.400	9/2/21 14:00	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00689	mg/L	0.0000600	0.00100	9/13/21 20:45	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:00	TRC	EPA 245.1	H1
Semivolatiles								
AMPA	<2.00	ug/L	2.00	10.0	9/23/21 11:14	MER	EPA 547	*
Glyphosate	<1.00	ug/L	1.00	5.00	9/23/21 11:14	MER	EPA 547	*
Atrazine	<0.050	ug/L	0.0500	0.100	9/16/21 17:11	MAH	EPA 625.1	*
Chlorpyrifos	<0.050	ug/L	0.0500	0.100	9/16/21 17:11	MAH	EPA 625.1	*
Metolachlor	<0.050	ug/L	0.0500	0.100	9/16/21 17:11	MAH	EPA 625.1	*
Surrogate: Terphenyl-d14	*97.0%*		*25-135*		*9/16/21 17:11*	*MAH*	*EPA 625.1*	
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 8:36	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 8:36	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 8:36	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 8:36	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*89.7%*		*50-150*		*9/8/21 8:36*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-6

Lab/Sample Number: WBI0069-07 Collect Date: 08/30/21 10:33

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	231	mg/L	1.00	1.00	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00876	mg/L	0.0000600	0.00100	9/13/21 20:48	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:02	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 9:32	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 9:32	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 9:32	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 9:32	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*94.3%*		*50-150*		*9/8/21 9:32*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-7

Lab/Sample Number: WBI0069-08 Collect Date: 08/30/21 10:08

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	16.0	mg/L	0.200	0.200	9/2/21 14:00	ARS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000615	mg/L	0.0000600	0.00100	9/13/21 20:51	JLG	EPA 200.8	J
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:04	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 10:27	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 10:27	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 10:27	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 10:27	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*86.3%*		*50-150*		*9/8/21 10:27*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: DW-2
Lab/Sample Number: WBI0069-09 Collect Date: 08/30/21 08:50
Date Received: 09/02/21 10:17 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	10.4	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00124	mg/L	0.0000600	0.00100	9/13/21 20:55	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:07	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 11:23	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 11:23	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 11:23	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 11:23	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*93.5%*		*50-150*		*9/8/21 11:23*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-3

Lab/Sample Number: WBI0069-10 Collect Date: 08/30/21 09:05

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	11.6	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00130	mg/L	0.0000600	0.00100	9/13/21 20:58	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:18	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 12:19	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 12:19	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 12:19	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 12:19	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*94.5%*		*50-150*		*9/8/21 12:19*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: DW-3
Lab/Sample Number: WBI0069-11 Collect Date: 08/30/21 09:30
Date Received: 09/02/21 10:17 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	10.2	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000984	mg/L	0.0000600	0.00100	9/13/21 21:11	JLG	EPA 200.8	J
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:20	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 17:54	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 17:54	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 17:54	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 17:54	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*96.0%*		*50-150*		*9/8/21 17:54*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-2

Lab/Sample Number: WBI0069-12 Collect Date: 08/30/21 09:40

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	13.6	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.0101	mg/L	0.0000600	0.00100	9/13/21 21:14	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:22	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 18:50	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 18:50	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 18:50	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 18:50	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*92.1%*		*50-150*		*9/8/21 18:50*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-8

Lab/Sample Number: WBI0069-13 Collect Date: 08/30/21 10:25

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	11.4	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00227	mg/L	0.0000600	0.00100	9/13/21 21:17	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:25	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 19:46	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 19:46	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 19:46	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 19:46	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*90.4%*		*50-150*		*9/8/21 19:46*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: U-2/WW-5

Lab/Sample Number: WBI0069-14 Collect Date: 08/30/21 09:35

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	40.7	mg/L	0.333	0.333	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000218	mg/L	0.0000600	0.00100	9/13/21 21:21	JLG	EPA 200.8	J
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:27	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 20:41	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 20:41	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 20:41	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 20:41	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*91.1%*		*50-150*		*9/8/21 20:41*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: U-3/WW-4

Lab/Sample Number: WBI0069-15 Collect Date: 08/30/21 09:00

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	20.0	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000297	mg/L	0.0000600	0.00100	9/13/21 21:24	JLG	EPA 200.8	J
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:29	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 21:37	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 21:37	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 21:37	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 21:37	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*94.3%*		*50-150*		*9/8/21 21:37*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: DW-1/WW-3

Lab/Sample Number: WBI0069-16 Collect Date: 08/30/21 10:15

Date Received: 09/02/21 10:17 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	37.6	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00295	mg/L	0.0000600	0.00100	9/13/21 21:27	JLG	EPA 200.8	
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:36	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	9/8/21 22:33	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 22:33	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 22:33	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 22:33	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*89.5%*		*50-150*		*9/8/21 22:33*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

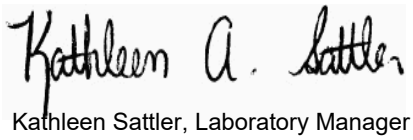
(Continued)

Sample Location: Blank
Lab/Sample Number: WBI0069-17 Collect Date: 08/30/21 09:30
Date Received: 09/02/21 10:17 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	0.800	mg/L	0.200	0.200	9/6/21 7:00	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000128	mg/L	0.0000600	0.00100	9/13/21 21:30	JLG	EPA 200.8	J
Mercury								
Mercury	<0.085	ug/L	0.0850	0.100	9/29/21 13:38	TRC	EPA 245.1	H1
Semivolatiles								
Diesel	0.765	mg/L	0.0520	0.0800	9/8/21 23:29	ARC	NWTPH-HCID	
Gasoline	<0.160	mg/L	0.160	0.400	9/8/21 23:29	ARC	NWTPH-HCID	
Lube Oil	<0.046	mg/L	0.0460	0.0800	9/8/21 23:29	ARC	NWTPH-HCID	
Mineral Oil	<0.160	mg/L	0.160	0.400	9/8/21 23:29	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*85.5%*		*50-150*		*9/8/21 23:29*	*ARC*	*NWTPH-HCID*	

Sample Comment: Hit in the diesel range appears to be heavy fuel oil.

Authorized Signature,



Kathleen Sattler, Laboratory Manager

H1	Sample analysis performed past holding time.
J	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
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: BBI0121 - W Filtration										
Blank (BBI0121-BLK1)					Prepared: 9/3/2021 Analyzed: 9/6/2021					
TSS	ND		1.00	mg/L						
Blank (BBI0121-BLK2)					Prepared: 9/3/2021 Analyzed: 9/6/2021					
TSS	ND		1.00	mg/L						
LCS (BBI0121-BS1)					Prepared: 9/3/2021 Analyzed: 9/6/2021					
TSS	103			mg/L	100		103	90-110		
LCS Dup (BBI0121-BSD1)					Prepared: 9/3/2021 Analyzed: 9/6/2021					
TSS	110			mg/L	100		110	90-110	6.57	10
Duplicate (BBI0121-DUP1)			**Source: WBI0069-01**		Prepared: 9/3/2021 Analyzed: 9/6/2021					
TSS	5.60		0.200	mg/L		6.00			6.90	20
Matrix Spike (BBI0121-MS1)			**Source: WBI0069-17**		Prepared: 9/3/2021 Analyzed: 9/6/2021					
TSS	84.0		2.00	mg/L	100	ND	84.0	80-120		
Matrix Spike Dup (BBI0121-MSD1)			**Source: WBI0069-17**		Prepared: 9/3/2021 Analyzed: 9/6/2021					
TSS	90.0		2.00	mg/L	100	ND	90.0	80-120	6.90	20

Quality Control Data

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBI0300 - W 3010 Digest										
Blank (BBI0300-BLK1)					Prepared: 9/10/2021 Analyzed: 9/13/2021					
Arsenic	0.0000650	J	0.00100	mg/L						
LCS (BBI0300-BS1)					Prepared: 9/10/2021 Analyzed: 9/13/2021					
Arsenic	0.0506		0.00100	mg/L	0.0500		101	85-115		
Matrix Spike (BBI0300-MS1)			**Source: WBI0069-04**		Prepared: 9/10/2021 Analyzed: 9/13/2021					
Arsenic	0.0493		0.00100	mg/L	0.0500	0.00196	94.7	70-130		
Matrix Spike Dup (BBI0300-MSD1)			**Source: WBI0069-04**		Prepared: 9/10/2021 Analyzed: 9/13/2021					
Arsenic	0.0525		0.00100	mg/L	0.0500	0.00196	101	70-130	6.24	20

Quality Control Data

Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch: BBI0874 - W 245.1 Digest

Blank (BBI0874-BLK1)				Prepared: 9/28/2021 Analyzed: 9/29/2021					
Mercury	ND		0.100	ug/L					
LCS (BBI0874-BS1)				Prepared: 9/28/2021 Analyzed: 9/29/2021					
Mercury	2.26		0.100	ug/L	2.00		113	85-115	
Matrix Spike (BBI0874-MS1)		**Source: WBI0069-09**		Prepared: 9/28/2021 Analyzed: 9/29/2021					
Mercury	10.9		0.500	ug/L	10.0	<0.085	109	70-130	
Matrix Spike (BBI0874-MS2)		**Source: WBI0069-15**		Prepared: 9/28/2021 Analyzed: 9/29/2021					
Mercury	11.3		0.500	ug/L	10.0	<0.085	113	70-130	
Matrix Spike Dup (BBI0874-MSD1)		**Source: WBI0069-09**		Prepared: 9/28/2021 Analyzed: 9/29/2021					
Mercury	11.0		0.500	ug/L	10.0	<0.085	110	70-130	0.0457	20
Matrix Spike Dup (BBI0874-MSD2)		**Source: WBI0069-15**		Prepared: 9/28/2021 Analyzed: 9/29/2021					
Mercury	11.3		0.500	ug/L	10.0	<0.085	113	70-130	0.265	20

Quality Control Data
(Continued)

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBI0139 - W TPH-Dx										
Blank (BBI0139-BLK1)					Prepared & Analyzed: 9/7/2021					
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			*43.5*	*mg/L*	*50.1*		*86.9*	*50-150*		
LCS (BBI0139-BS1)					Prepared & Analyzed: 9/7/2021					
Diesel	0.908		0.0800	mg/L	1.00		90.3	70-130		
Surrogate: n-Hexacosane			*45.2*	*mg/L*	*50.1*		*90.3*	*50-150*		
Duplicate (BBI0139-DUP1)		**Source: WBI0069-05**			Prepared: 9/7/2021 Analyzed: 9/8/2021					
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			*45.0*	*mg/L*	*50.1*		*89.8*	*50-150*		
Duplicate (BBI0139-DUP2)		**Source: WBI0069-03**			Prepared: 9/7/2021 Analyzed: 9/8/2021					
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			*46.4*	*mg/L*	*50.1*		*92.6*	*50-150*		
Matrix Spike (BBI0139-MS1)		**Source: WBI0069-04**			Prepared: 9/7/2021 Analyzed: 9/8/2021					
Diesel	0.963		0.0800	mg/L	1.00	<0.052	95.8	70-130		
Surrogate: n-Hexacosane			*49.4*	*mg/L*	*50.1*		*98.6*	*50-150*		

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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
Batch: BBI0139 - W TPH-Dx (Continued)										
Matrix Spike Dup (BBI0139-MSD1)	**Source: WBI0069-04**				Prepared: 9/7/2021 Analyzed: 9/8/2021					
Diesel	0.925		0.0800	mg/L	1.00	<0.052	92.1	70-130	4.00	20
Surrogate: n-Hexacosane			*45.2*	*mg/L*	*50.1*		*90.1*	*50-150*		
Batch: BBI0513 - SVOC Water										
Blank (BBI0513-BLK1)					Prepared: 9/6/2021 Analyzed: 9/16/2021					
Atrazine	ND		0.100	ug/L						
Metolachlor	ND		0.100	ug/L						
Chlorpyrifos	ND		0.100	ug/L						
Surrogate: Terphenyl-d14			*19.9*	*ug/L*	*25.8*		*77.3*	*25-135*		
LCS (BBI0513-BS1)					Prepared: 9/6/2021 Analyzed: 9/16/2021					
Metolachlor	2.51		0.100	ug/L	2.50		100	60-125		
Chlorpyrifos	2.42		0.100	ug/L	2.50		96.8	50-125		
Atrazine	2.58		0.100	ug/L	2.50		103	60-125		
Surrogate: Terphenyl-d14			*24.6*	*ug/L*	*25.8*		*95.3*	*25-135*		
LCS Dup (BBI0513-BSD1)					Prepared: 9/6/2021 Analyzed: 9/16/2021					
Metolachlor	2.56		0.100	ug/L	2.50		102	60-125	1.97	20
Chlorpyrifos	2.43		0.100	ug/L	2.50		97.2	50-125	0.412	20
Atrazine	2.76		0.100	ug/L	2.50		110	60-125	6.74	20
Surrogate: Terphenyl-d14			*23.3*	*ug/L*	*25.8*		*90.6*	*25-135*		
Batch: BBI0870 - Glyphosate										
Blank (BBI0870-BLK1)					Prepared: 9/28/2021 Analyzed: 9/23/2021					
Glyphosate	ND		5.00	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
Batch: BBI0870 - Glyphosate (Continued)										
LCS (BBI0870-BS1)					Prepared: 9/28/2021 Analyzed: 9/23/2021					
Glyphosate	51.9		5.00	ug/L	50.0		104	70-130		
Matrix Spike (BBI0870-MS1)		**Source: WBI0069-04**			Prepared: 9/28/2021 Analyzed: 9/23/2021					
Glyphosate	47.3		5.00	ug/L	50.0	<1.00	94.6	70-130		
Matrix Spike Dup (BBI0870-MSD1)		**Source: WBI0069-04**			Prepared: 9/28/2021 Analyzed: 9/23/2021					
Glyphosate	49.3		5.00	ug/L	50.0	<1.00	98.6	70-130	4.14	25

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Chain of Custody Record

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Anatek Log-In #

WBI0069

Due: 09/17/21

Company Name:	Cardno-GS	Project Manager:	Benjamin Berridge
Address:	737 Bishop St Suite 3050	Project Name & #:	ADC Water Quality Monitoring
City: Honolulu State: HI Zip: 96813		Email Address:	benjamin.berridge@cardno-gs.com
Phone:	(808) 476-0067	Purchase Order #:	
Fax:		Sampler Name & phone:	

Turn Arou

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
x Email

Provide Sample Description

ditch water

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative:	TSS EPA 160.2	TPH HCID - SW 846 MOD 8015	**TPH GRO SW846M8015	Arsenic EPA 200.8	Mercury EPA 245.1
14	U-2/WW-5	8-30-2021/9:35	W	5			X	X	X	X	X
15	U-3/WW-4	8-30-2021/9:00	W	5			X	X	X	X	X
16	DWI/WW3	8-30-2021/10:15	W	5			X	X	X	X	X
17	Blank	8/30/21	W				X	X	X	X	X

Note Special Instructions/Comments

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

Inspection Checklist

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

Temperature (°C):_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	Ben Berridge		Cardno	8-31-21	14:00
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by					

Form COC01.00 - Eff 1 Mar 2015

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Sub-contracted analyses will be clearly noted on the analytical report.

WBI0069

Due: 09/17/21

Anatek Labs, Inc.

Chain of Custody Record

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Anatek Log-In #

Turn Aroun

Company Name:	Cardno-GS	Project Manager:	Benjamin Berridge
Address:	737 Bishop St Suite 3050	Project Name & # :	ADC Water Quality Monitoring
City: Honolulu	State: HI Zip: 96813	Email Address :	benjamin.berridge@cardno-gs.com
Phone:	(808) 476-0067	Purchase Order #:	
Fax:		Sampler Name & phone:	

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

Provide Sample Description

ditch water

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Preservative: Sample Volume	TSS EPA 160.2	TPH HCID - SW 846 MOD 8015	**TPH GRO SW846M8015	Arsenic EPA 200.8	Mercury EPA 245.1	Pesticides EPA 625 SIM	Glyphosate EPA 547	Pesticides Sed. EPA 827D	Glyphosate Sed. EPA 8321B	
1	D-4	8-30-2021/8:44	W	5		X	X	X	X	X					
2	D-5	/9:05	W	5		X	X	X	X	X					
3	WW-2	/9:23	W	5		X	X	X	X	X					
4	WW-3	/9:46	W	7		X	X	X	X	X	X	X			
5	E-1	/9:30	W	7		X	X	X	X	X	X	X			
6	E-2	/9:55	W	7		X	X	X	X	X	X	X			
7	D-6	/10:33	W	5		X	X	X	X	X					
8	D-7	/10:08	W	5		X	X	X	X	X					
9	DW-2	/8:50	W	5		X	X	X	X	X					
10	D-3	/9:05	W	5		X	X	X	X	X					
11	DW-3	/9:30	W	5		X	X	X	X	X					
12	D-2	/9:40	W	5		X	X	X	X	X					
13	D-8	/10:25	W	5		X	X	X	X	X					

Note Special Instructions/Comments

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

MS/MSD
Source for Duplicates

Inspection Checklist

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

Temperature (°C): H 4.7 IR

Preservative: HCL 2003851L2 Nat2O3 2001177
2002296L2 Ph 2001015

Date & Time:

Inspected By:

	Printed Name	Signature	Company	Date	Time
Relinquished by	Ben Berridge		Cardno	8-30-2021	14:00
Received by	Joseph Rippin		Anatek	9/2/21	1017
Relinquished by					
Received by					
Relinquished by					
Received by					

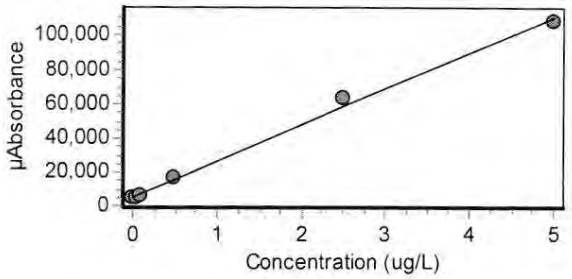
Report Generated By Teledyne CETAC QuickTrace

Analyst: Mercury
Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\09292021-245.wszf
Creation Date: 9/29/2021 11:40:19 AM
Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	09/29/21 12:12:50 pm	0.0000	4698	3.94	-22.01	
Replicates	4918.9	4766.2	4610.5	4494.4							
Standard #1 (0.05 ppb)					STD	09/29/21 12:15:07 pm	0.0500	5180	3.81	-49.25	
Replicates	5405.7	5270.3	5082.0	4960.7							
Standard #2 (0.1 ppb)					STD	09/29/21 12:17:23 pm	0.1000	6181	3.88	-51.97	
Replicates	6452.7	6294.4	6067.7	5910.4							
Standard #3 (0.5 ppb)					STD	09/29/21 12:19:40 pm	0.5000	16108	3.90	16.54	
Replicates	16847.3	16358.4	15823.4	15403.4							
Standard #4 (2.5 ppb)					STD	09/29/21 12:21:57 pm	2.5000	62659	3.97	213.62	
Replicates	65587.7	63629.4	61552.9	59866.9							
Standard #5 (5 ppb)					STD	09/29/21 12:24:15 pm	5.0000	108837	3.88	-106.93	
Replicates	113869.8	110427.4	106865.2	104185.5							

Calibration
Equation: A = 5163.747 + 21187.766C
R2: 0.99693
SEE: 2658.0020
Flags: C



wbi0109-01					UNK	09/29/21 12:46:32 pm	0.0041	5252	266.29		
Replicates	5534.6	5334.2	5141.4	4996.2							
wbi0069-01					UNK	09/29/21 12:48:48 pm	-0.0764	3546	8.49		
Replicates	3717.4	3594.2	3456.2	3416.0							
wbi0069-02					UNK	09/29/21 12:51:05 pm	-0.0561	3975	21.72		
Replicates	3726.3	3801.3	4088.6	4283.5							
wbi0069-03					UNK	09/29/21 12:53:22 pm	-0.0303	4522	29.35		
Replicates	4746.0	4598.7	4422.9	4320.7							
wbi0069-04					UNK	09/29/21 12:55:38 pm	-0.0586	3921	13.49		
Replicates	4122.1	3976.3	3858.3	3728.9							
wbi0064-05					UNK	09/29/21 12:57:55 pm	-0.0520	4061	15.69		
Replicates	4260.9	4124.7	4003.5	3854.7							
wbi0064-06					UNK	09/29/21 01:00:13 pm	-0.0558	3983	14.64		
Replicates	4189.2	4037.7	3921.5	3781.9							

Sample Name			Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
wbi0069-07			UNK	09/29/21 01:02:30 pm	-0.0567	3962	13.24		
Replicates	4145.9	4030.0	3889.7	3782.2					
wbi0069-08			UNK	09/29/21 01:04:47 pm	-0.0764	3546	8.27		
Replicates	3698.0	3601.7	3495.7	3388.0					
wbi0069-09			UNK	09/29/21 01:07:03 pm	-0.0603	3886	12.53		
Replicates	4070.0	3958.0	3810.6	3706.6					
bbi0874-ms1			UNK	09/29/21 01:09:19 pm	2.1890	51538	3.87		
Replicates	53692.6	52198.3	50690.5	49570.3					
bbi0874-msd1			UNK	09/29/21 01:11:35 pm	2.1900	51565	3.94		
Replicates	53737.5	52255.0	50738.6	49530.1					
wbi0069-10			UNK	09/29/21 01:18:25 pm	-0.0670	3745	9.93		
Replicates	3919.7	3789.2	3673.7	3596.9					
wbi0069-11			UNK	09/29/21 01:20:41 pm	-0.0583	3929	11.28		
Replicates	4098.1	3981.6	3849.8	3785.6					
wbi0069-12			UNK	09/29/21 01:22:58 pm	-0.0556	3985	13.79		
Replicates	4184.2	4043.5	3893.0	3818.6					
wbi0069-13			UNK	09/29/21 01:25:15 pm	-0.0951	3148	6.75		
Replicates	3302.7	3209.0	3090.1	2991.6					
wbi0069-14			UNK	09/29/21 01:27:32 pm	-0.1240	2537	3.98		
Replicates	2659.1	2585.7	2476.7	2427.7					
wbi0069-15			UNK	09/29/21 01:29:49 pm	-0.2302	285	0.58		
Replicates	317.3	299.5	254.5	270.3					
bbi0874-ms2			UNK	09/29/21 01:32:06 pm	2.2570	52980	4.32		
Replicates	55383.2	53816.6	52089.6	50630.8					
bbi0874-msd2			UNK	09/29/21 01:34:23 pm	2.2630	53104	3.18		
Replicates	54775.2	53827.1	52537.4	51276.6					
wbi0069-16			UNK	09/29/21 01:36:41 pm	-0.0815	3437	9.57		
Replicates	3641.4	3487.9	3360.5	3258.7					
wbi0069-17			UNK	09/29/21 01:38:57 pm	-0.2076	766	1.06		
Replicates	813.3	796.5	739.8	714.8					
mbi0104-01			UNK	09/29/21 01:41:13 pm	0.0449	6115	24.77		
Replicates	6405.2	6187.6	6009.5	5858.1					
mbi0104-02			UNK	09/29/21 01:43:29 pm	-0.0433	4246	15.90		
Replicates	4432.0	4284.9	4167.3	4099.1					
mbi0268-01			UNK	09/29/21 01:50:18 pm	-0.0961	3127	6.64		
Replicates	3279.7	3192.3	3061.9	2975.4					
wbi0660-01			UNK	09/29/21 01:52:35 pm	-0.0709	3662	10.76		
Replicates	3854.7	3722.9	3586.3	3483.9					
wbi0660-02			UNK	09/29/21 01:54:52 pm	-0.0461	4186	17.18		
Replicates	4408.2	4216.8	4092.5	4026.1					

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
bbi0874-blk1					UNK	09/29/21 01:57:08 pm	-0.1830	1287	1.20		
	Replicates	1331.5	1319.6	1260.9	1234.6						
bbi0874-bs1					UNK	09/29/21 01:59:25 pm	2.2610	53072	4.28		
	Replicates	55524.5	53845.7	52094.7	50822.9						
BLK					UNK	09/29/21 05:14:02 pm	0.1214	7737	12.49		
	Replicates	8090.8	7886.9	7616.1	7352.7						
LCS					UNK	09/29/21 05:16:18 pm	O/R	118634	3.97		O
	Replicates	123818.8	120503.8	116803.8	113411.1						
WBI0997-08@100					UNK	09/29/21 05:18:34 pm	-0.2522	-181	0.81		
	Replicates	-190.1	-150.7	-144.2	-237.7						
WBI0997-08@10					UNK	09/29/21 05:20:50 pm	1.2690	32055	6.44		
	Replicates	34197.8	32618.5	31167.0	30238.1						

Notes

Analyst:

Lamp Current:

High Standard mirco Abs:

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10007.D Vial: 6
Acq On : 07 Sep 2021 21:33 Operator: ARC
Sample : BBI0139-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:57:58 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

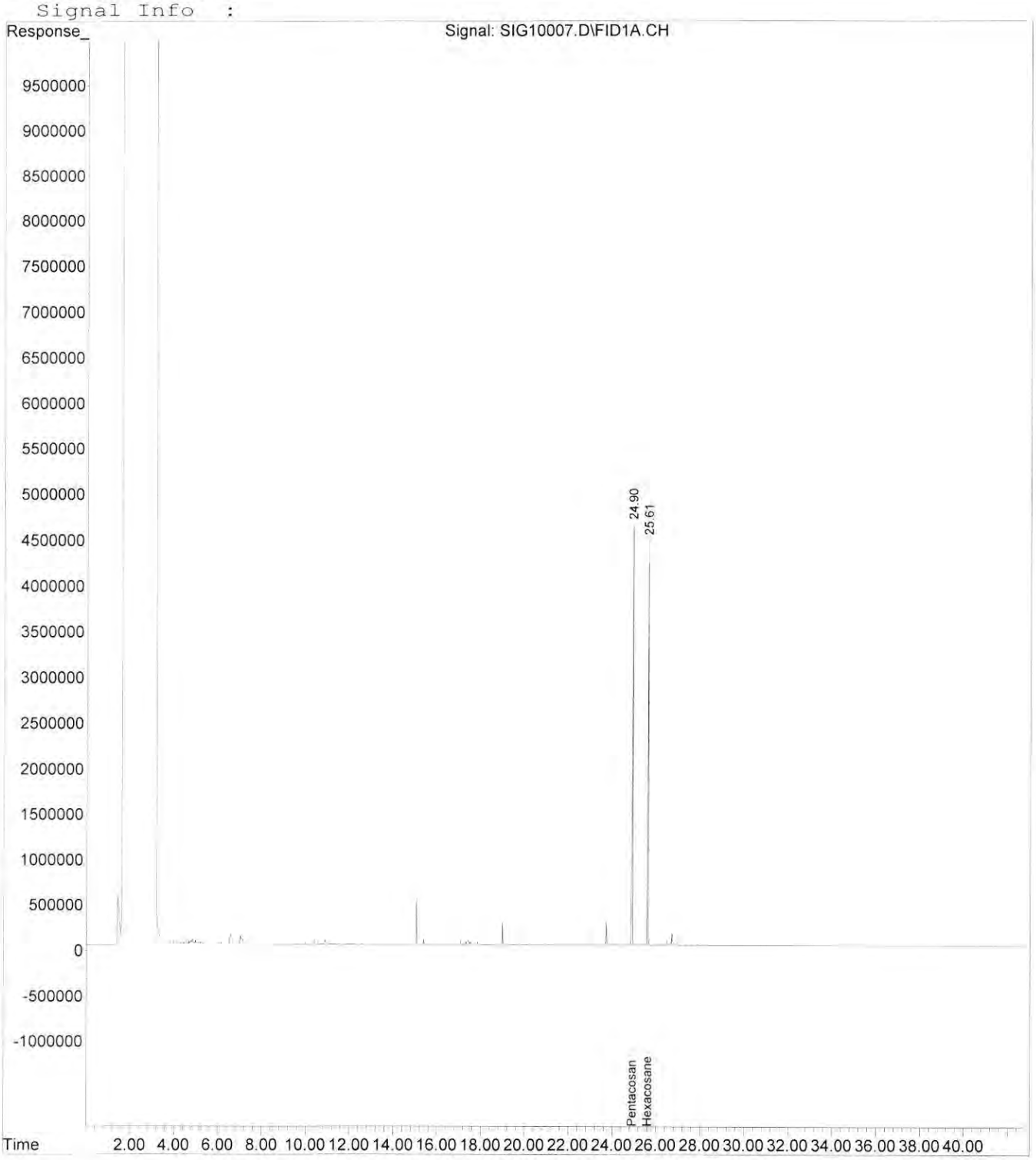
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.90	95777866	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	82144556	43.515	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	87.03%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
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	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10007.D Vial: 6
Acq On : 07 Sep 2021 21:33 Operator: ARC
Sample : BBI0139-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 8:01 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10009.D Vial: 8
Acq On : 07 Sep 2021 23:24 Operator: ARC
Sample : BBI0139-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:58:00 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

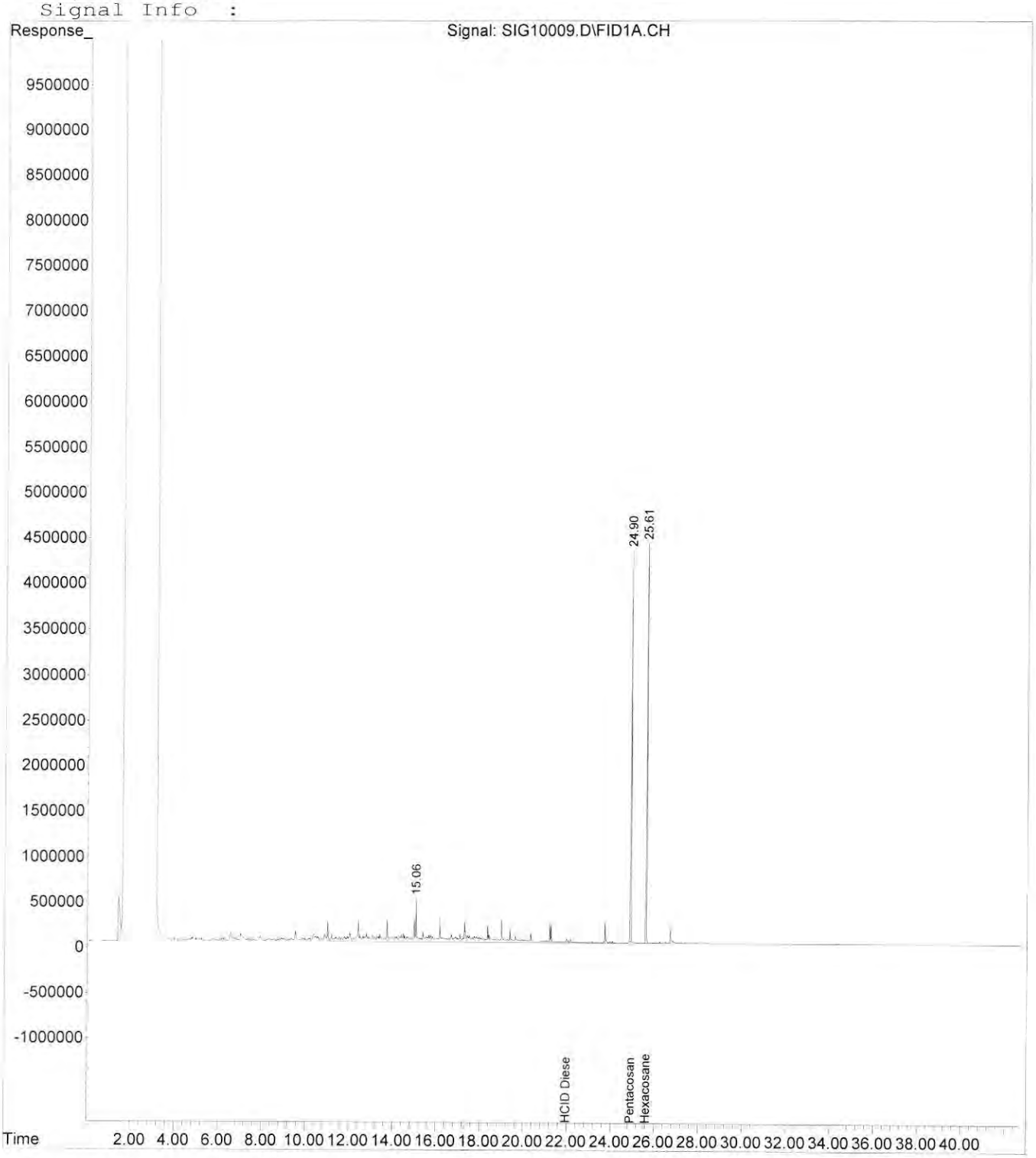
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.90	85520743	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	76261456	45.244	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	90.49%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
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	275407441	226.989	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10009.D Vial: 8
Acq On : 07 Sep 2021 23:24 Operator: ARC
Sample : BBI0139-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 8:03 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10010.D Vial: 9
Acq On : 08 Sep 2021 00:19 Operator: ARC
Sample : WBI0069-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:58:01 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.90	82888256	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	78199815	47.867	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	95.73%		
	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	

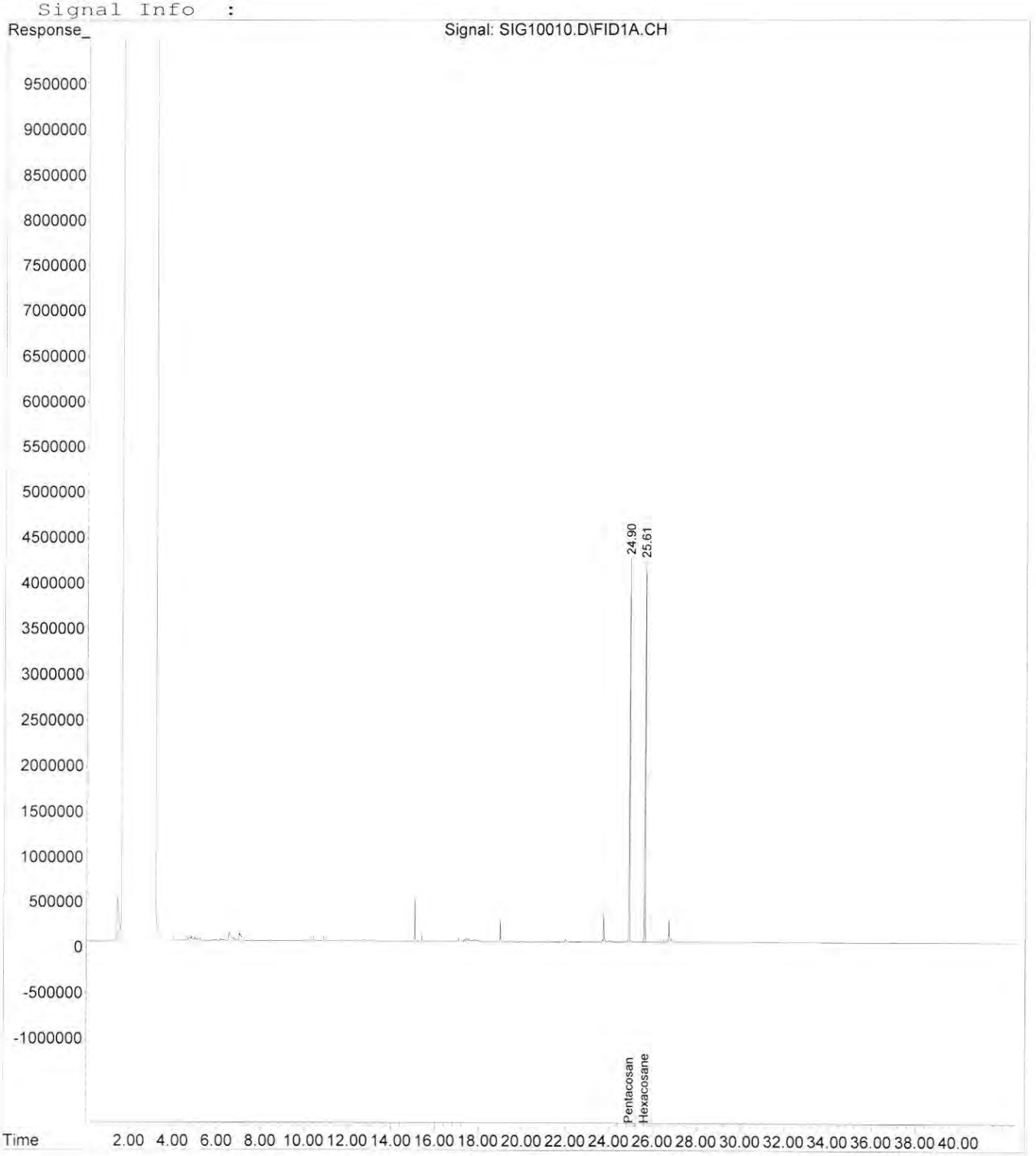
(f)=RT Delta > 1/2 Window (m)=manual int
SIG10010.D 210827LOWDHT.M Thu Sep 09 16:18:19 2021

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10010.D Vial: 9
Acq On : 08 Sep 2021 00:19 Operator: ARC
Sample : WBI0069-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 8:04 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10011.D Vial: 10
Acq On : 08 Sep 2021 1:14 Operator: ARC
Sample : WBI0069-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:58:03 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

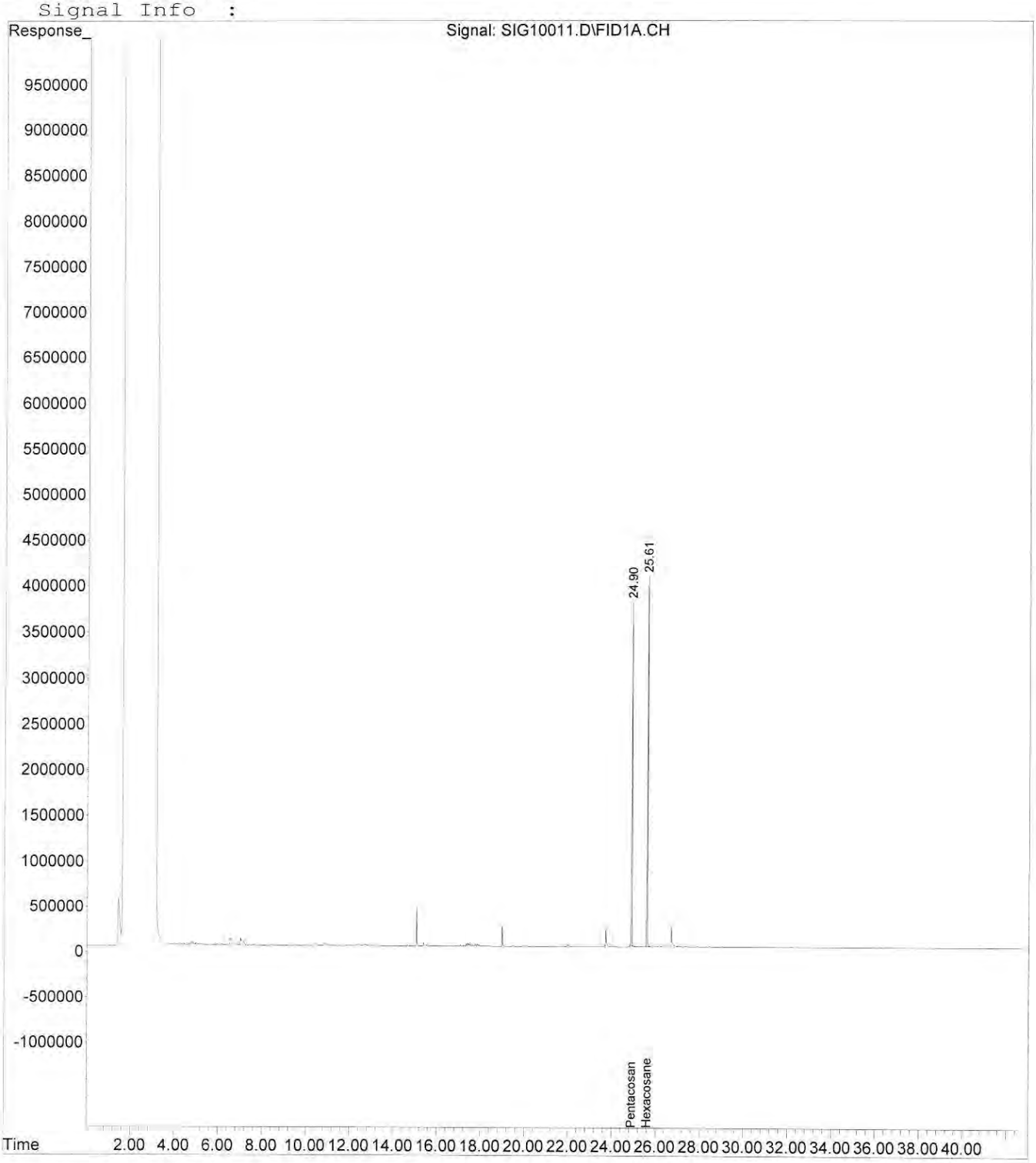
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.90	75844485	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	67749801	45.322	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	90.64%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
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	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10011.D Vial: 10
Acq On : 08 Sep 2021 1:14 Operator: ARC
Sample : WBI0069-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 8:05 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10012.D Vial: 11
Acq On : 08 Sep 2021 2:10 Operator: ARC
Sample : WBI0069-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:58:04 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

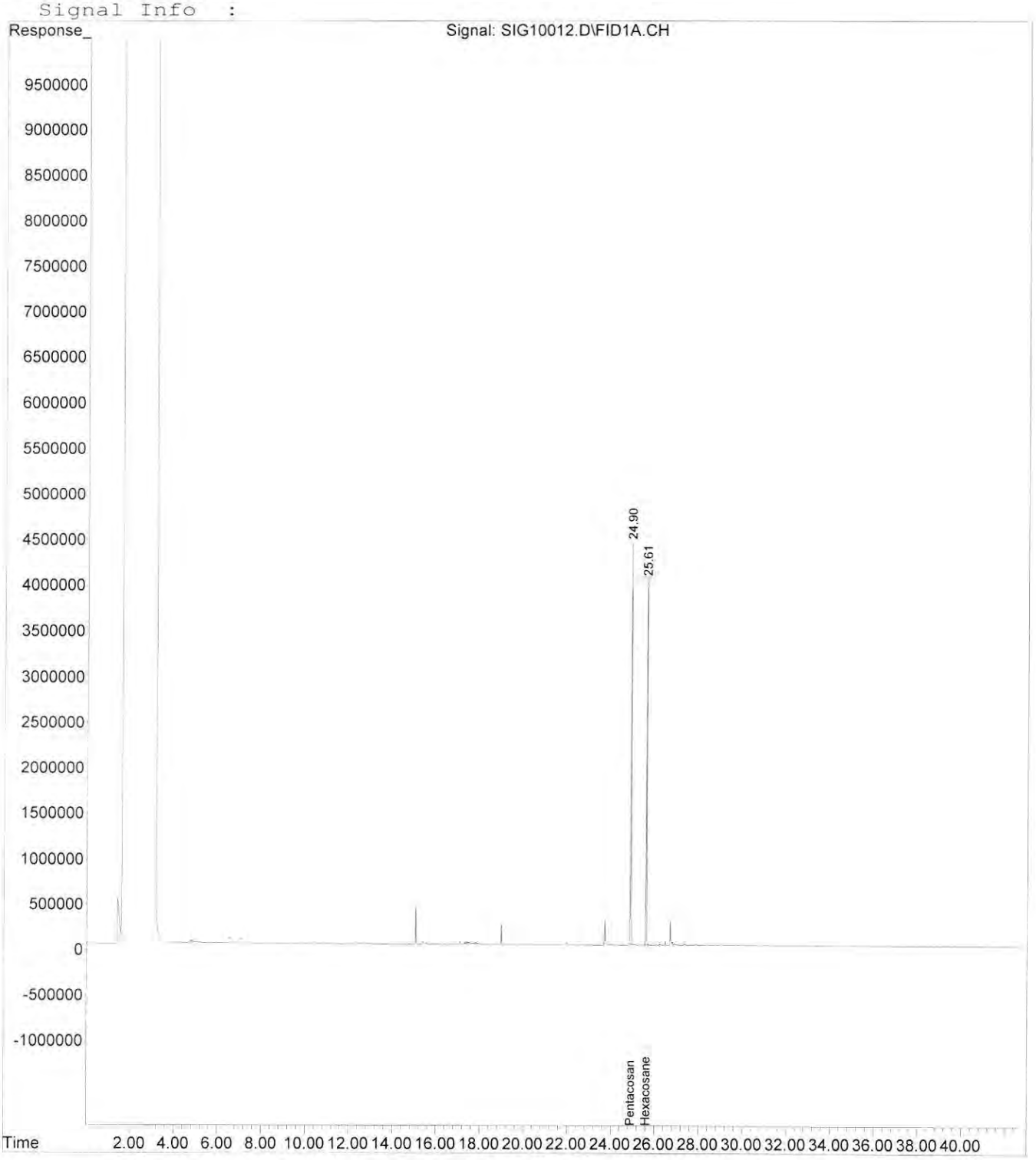
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.90	82475499	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	74163790	45.624	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	91.25%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
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	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10012.D Vial: 11
Acq On : 08 Sep 2021 2:10 Operator: ARC
Sample : WBI0069-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 8:06 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10013.D Vial: 12
Acq On : 08 Sep 2021 3:05 Operator: ARC
Sample : BBI0139-DUP2 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:58:05 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.91	101813911	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.62	93107292	46.398	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	92.80%		
	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	

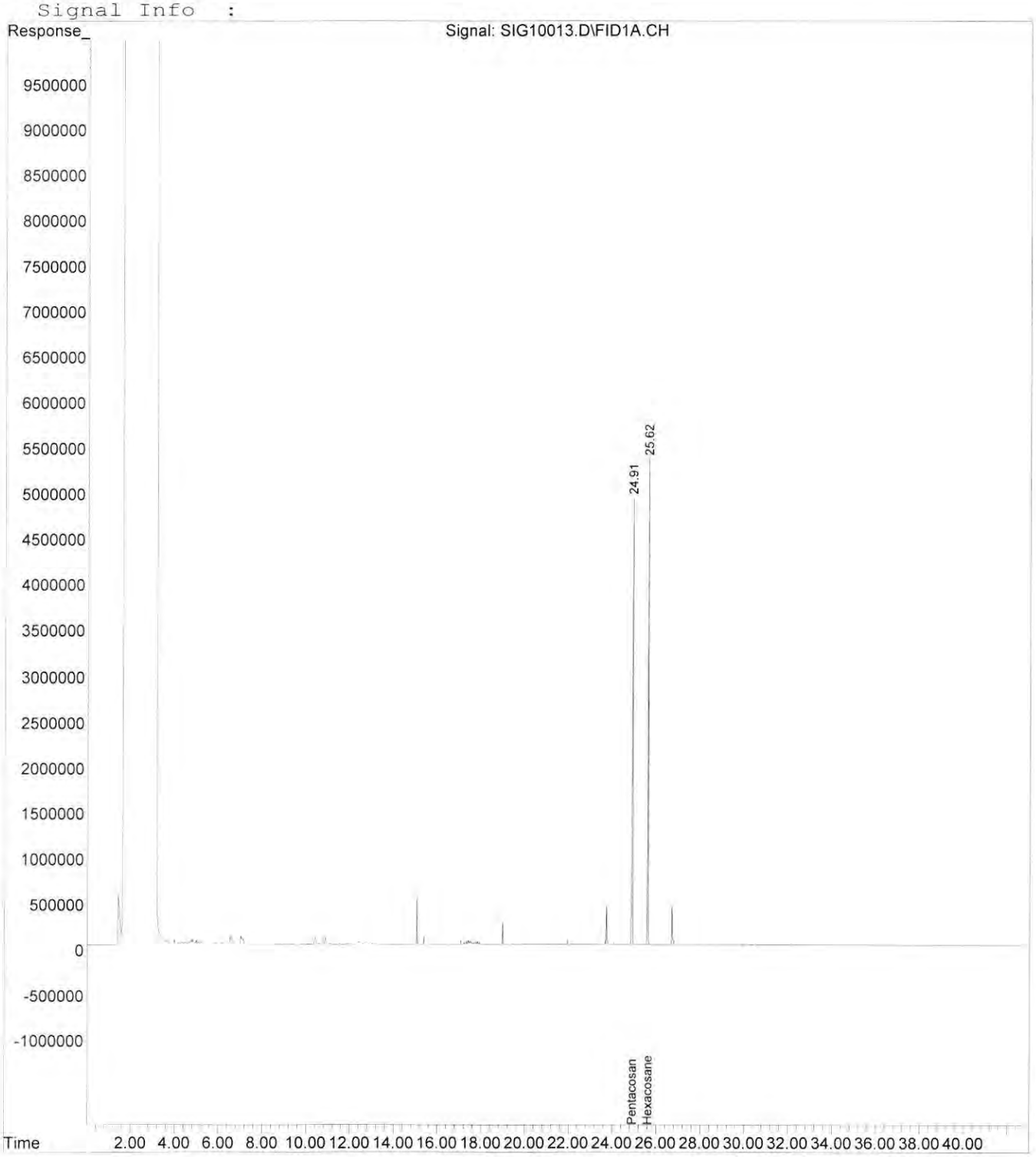
(f)=RT Delta > 1/2 Window (m)=manual in

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10013.D Vial: 12
Acq On : 08 Sep 2021 3:05 Operator: ARC
Sample : BBI0139-DUP2 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 8:06 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10014.D Vial: 13
Acq On : 08 Sep 2021 4:00 Operator: ARC
Sample : WBI0069-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:58:07 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

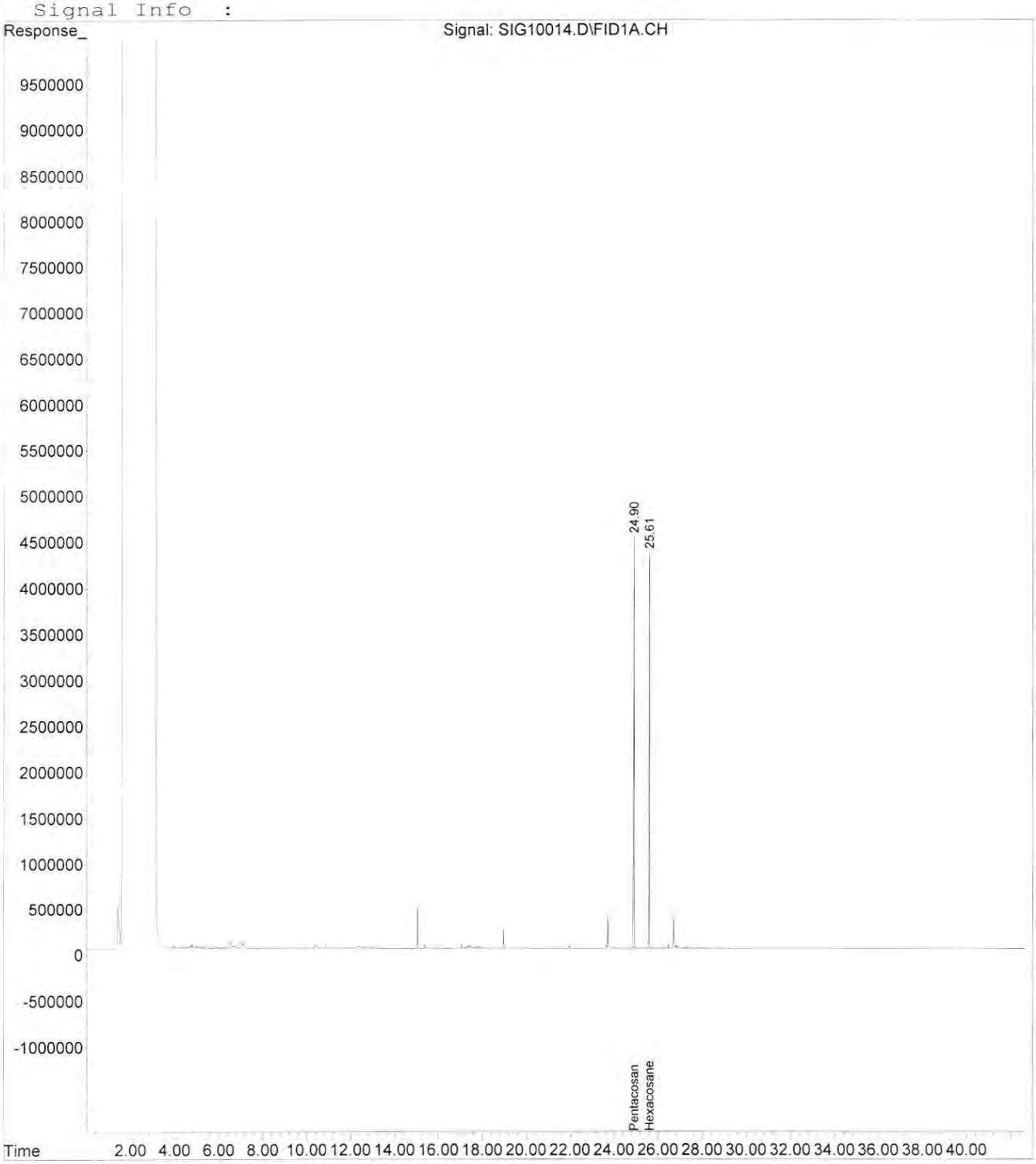
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.90	85928236	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	78457108	46.325	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	92.65%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
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	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10014.D Vial: 13
Acq On : 08 Sep 2021 4:00 Operator: ARC
Sample : WBI0069-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 8:07 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10015.D Vial: 14
Acq On : 08 Sep 2021 4:56 Operator: ARC
Sample : BBI0139-MS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:58:08 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.90	82923527	50.000	ppm	m
		System Monitoring Compounds					
2)	S	Hexacosane	25.61	80763187	49.415	ppm	m
Spiked Amount 50.000 Range 50 - 150 Recovery = 98.83%							
		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	283305185	240.812	ppm	
8)	h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

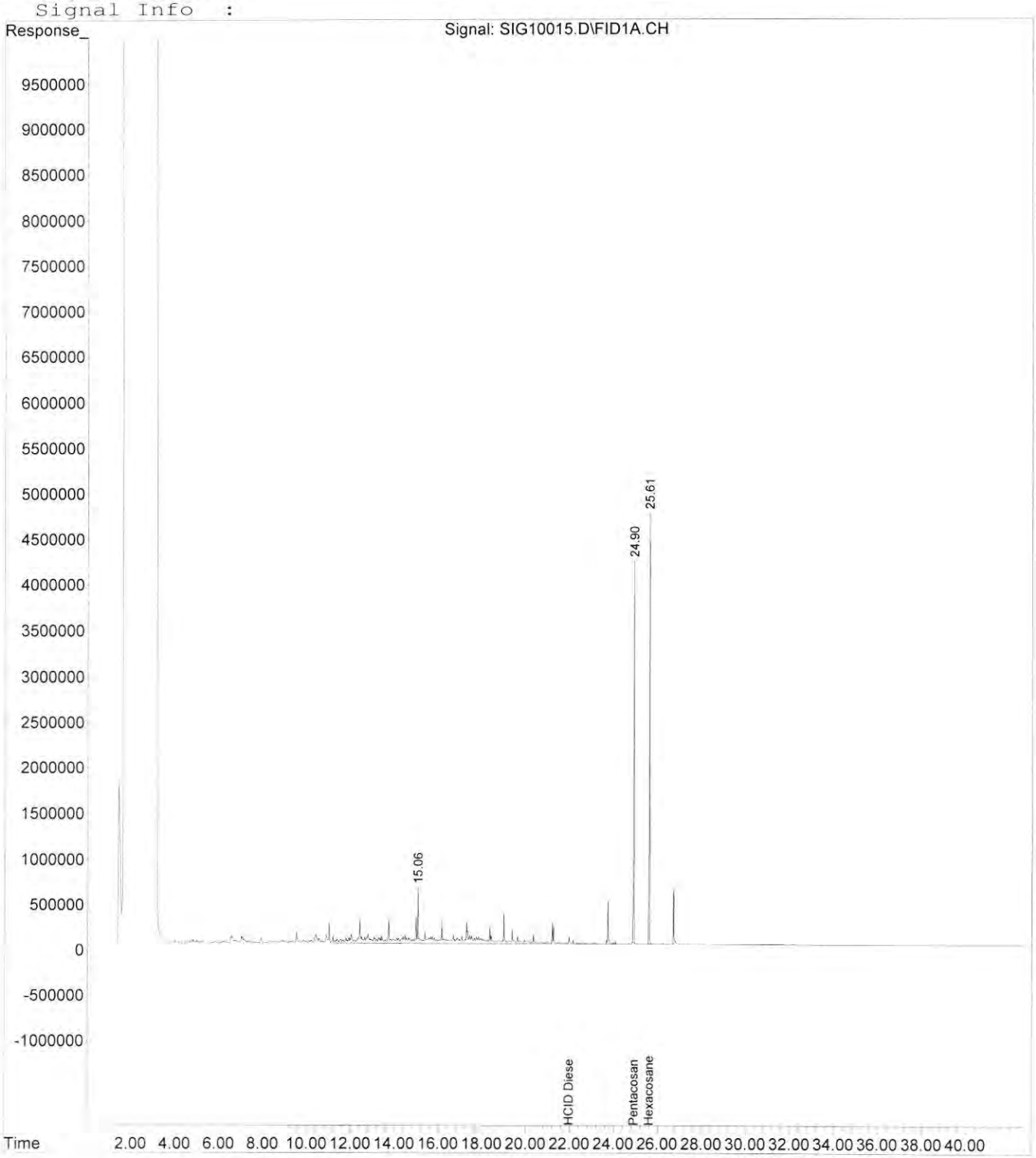
(f)=RT Delta > 1/2 Window (m)=manual in

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10015.D Vial: 14
Acq On : 08 Sep 2021 4:56 Operator: ARC
Sample : BBI0139-MS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 8:08 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10016.D Vial: 15
Acq On : 08 Sep 2021 5:51 Operator: ARC
Sample : BBI0139-MSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:58:09 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.90	97654421	50.000	ppm	m
		System Monitoring Compounds					
2)	S	Hexacosane	25.61	86921747	45.161	ppm	m
Spiked Amount		50.000	Range 50 - 150		Recovery =	90.32%	
		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	320552146	231.370	ppm	
8)	h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

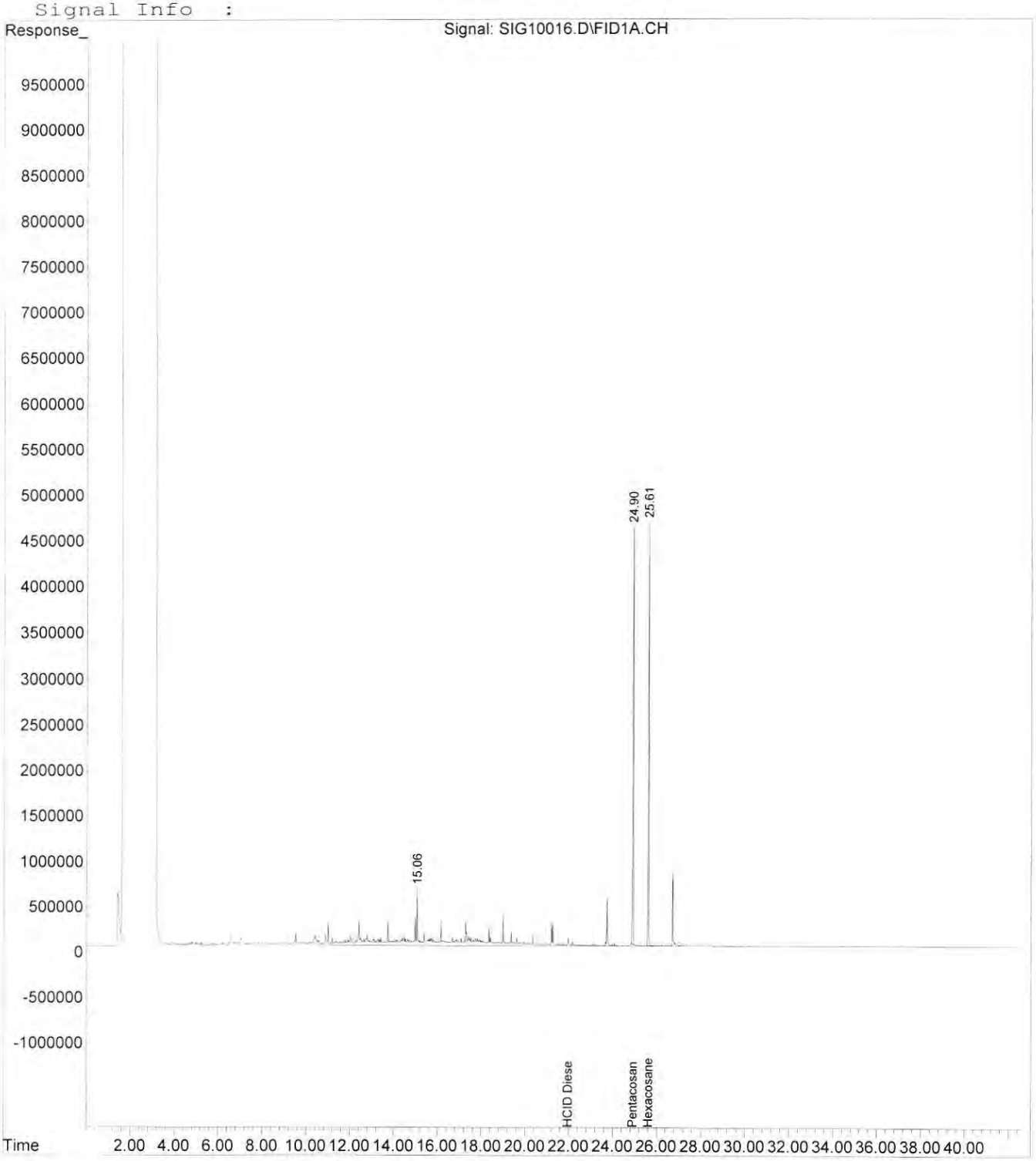
(f)=RT Delta > 1/2 Window (m)=manual in

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10016.D Vial: 15
Acq On : 08 Sep 2021 5:51 Operator: ARC
Sample : BBI0139-MSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 8:09 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10017.D Vial: 16
Acq On : 08 Sep 2021 6:46 Operator: ARC
Sample : WBI0069-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 07:58:11 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.89	78188745	50.000	ppm
	System Monitoring Compounds				
2)	S Hexacosane	25.60	71045469	46.101	ppm
Spiked Amount	50.000	Range 50 - 150	Recovery =	92.20%	
	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

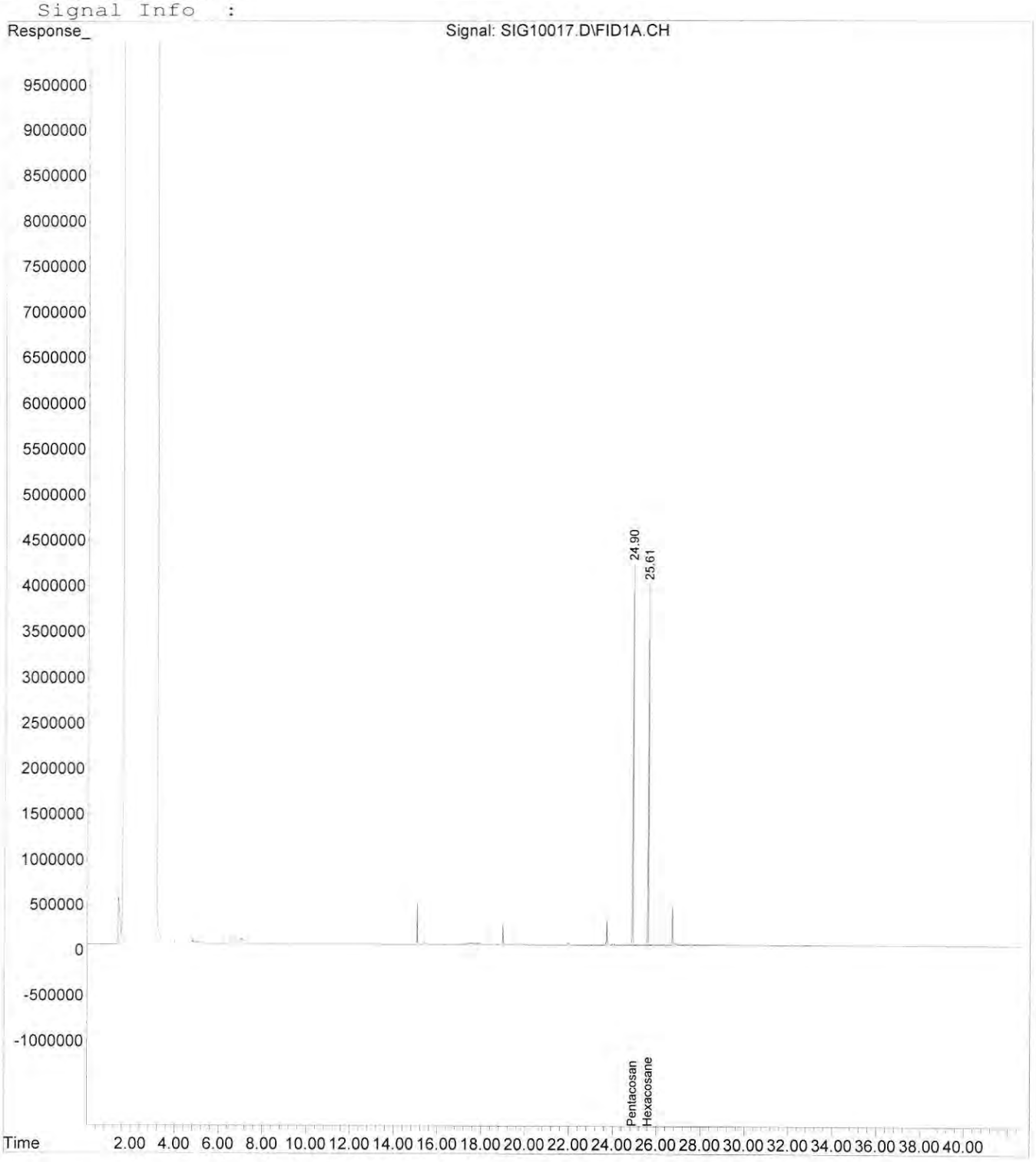
(f)=RT Delta > 1/2 Window (m)=manual in

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10017.D Vial: 16
Acq On : 08 Sep 2021 6:46 Operator: ARC
Sample : WBI0069-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 9 9:02 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10018.D Vial: 17
Acq On : 08 Sep 2021 7:41 Operator: ARC
Sample : BBI0139-DUP1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 09:00:10 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.90	87301014	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	77380818	44.971	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	89.94%		
	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	

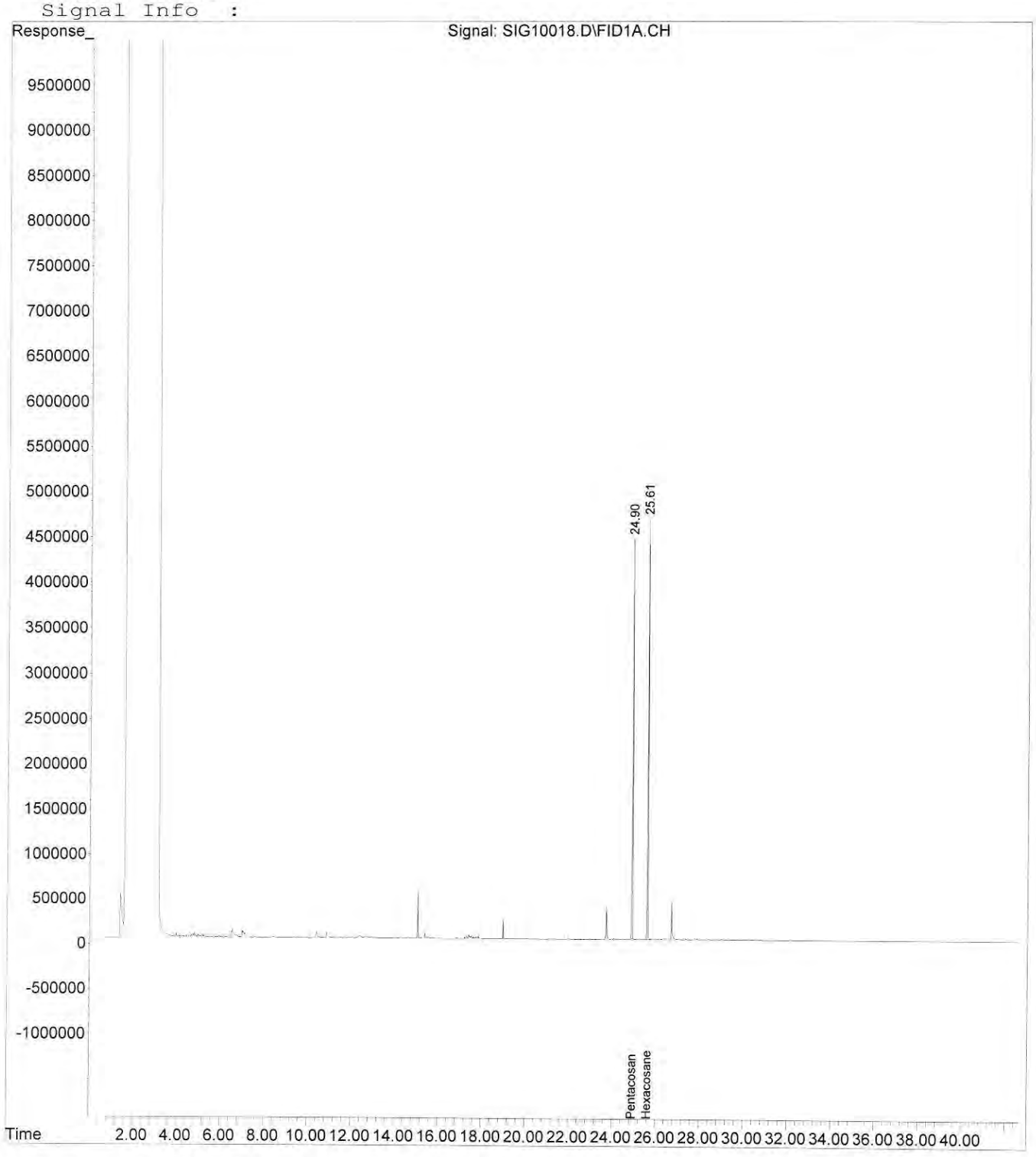
(f)=RT Delta > 1/2 Window (m)=manual in

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10018.D Vial: 17
Acq On : 08 Sep 2021 7:41 Operator: ARC
Sample : BBI0139-DUP1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 9:06 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10019.D Vial: 18
Acq On : 08 Sep 2021 8:36 Operator: ARC
Sample : WBI0069-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 09:20:07 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

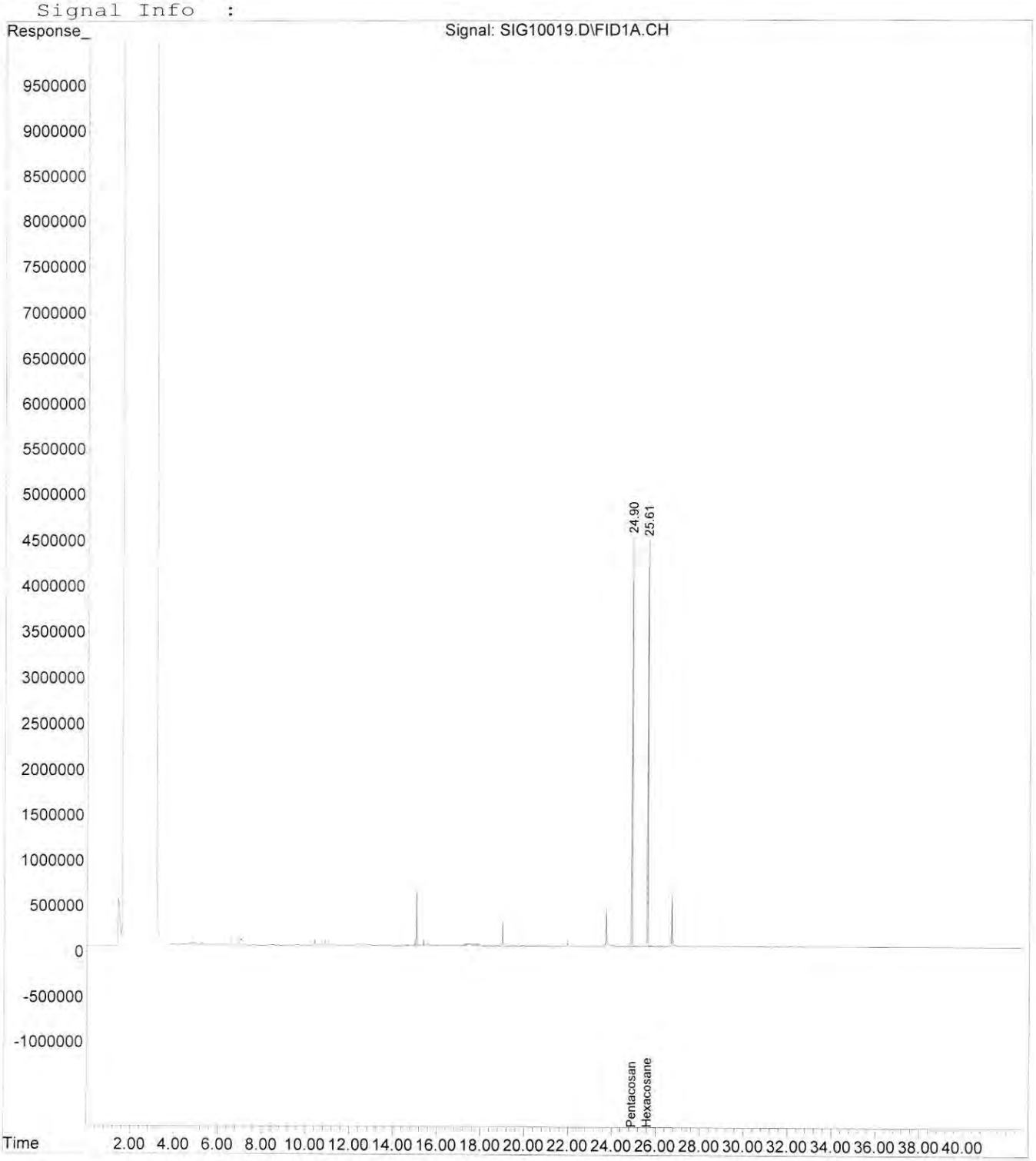
	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	Pentacosane	24.90	89043122	50.000 ppm
	System Monitoring Compounds			
2) S	Hexacosane	25.61	78898919	44.957 ppm
Spiked Amount	50.000	Range 50 - 150	Recovery =	89.91%
	Target Compounds			
3) H	TPH Diesel (C12-C14)	0.00	0	N.D. ppm
4) H	TPHDX-Lube 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)	0.00	0	N.D. ppm
8) h	HCID Oil (>C14)	0.00	0	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10019.D Vial: 18
Acq On : 08 Sep 2021 8:36 Operator: ARC
Sample : WBI0069-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 9:22 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10020.D Vial: 19
Acq On : 08 Sep 2021 9:32 Operator: ARC
Sample : WBI0069-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 10:17:19 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

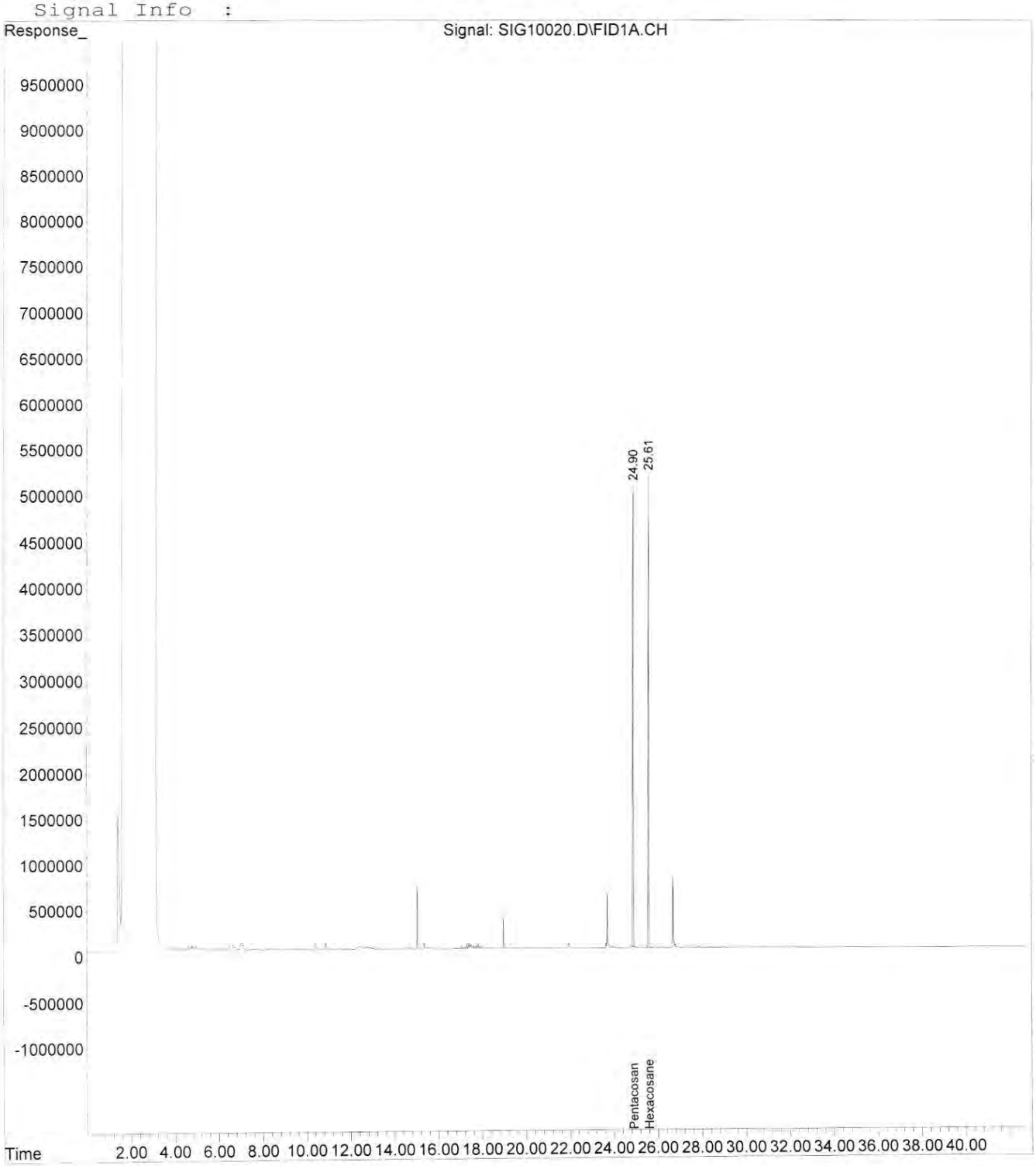
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Pentacosane	24.90	107827711	50.000	ppm	m
System Monitoring Compounds					
2) S Hexacosane	25.61	100432222	47.257	ppm	m
Spiked Amount 50.000 Range 50 - 150		Recovery = 94.51%			
Target Compounds					
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	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	

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10020.D Vial: 19
Acq On : 08 Sep 2021 9:32 Operator: ARC
Sample : WBI0069-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 10:18 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10021.D Vial: 20
Acq On : 08 Sep 2021 10:27 Operator: ARC
Sample : WBI0069-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 11:11:22 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.90	85605806	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	72966168	43.246	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	86.49%		
	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)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

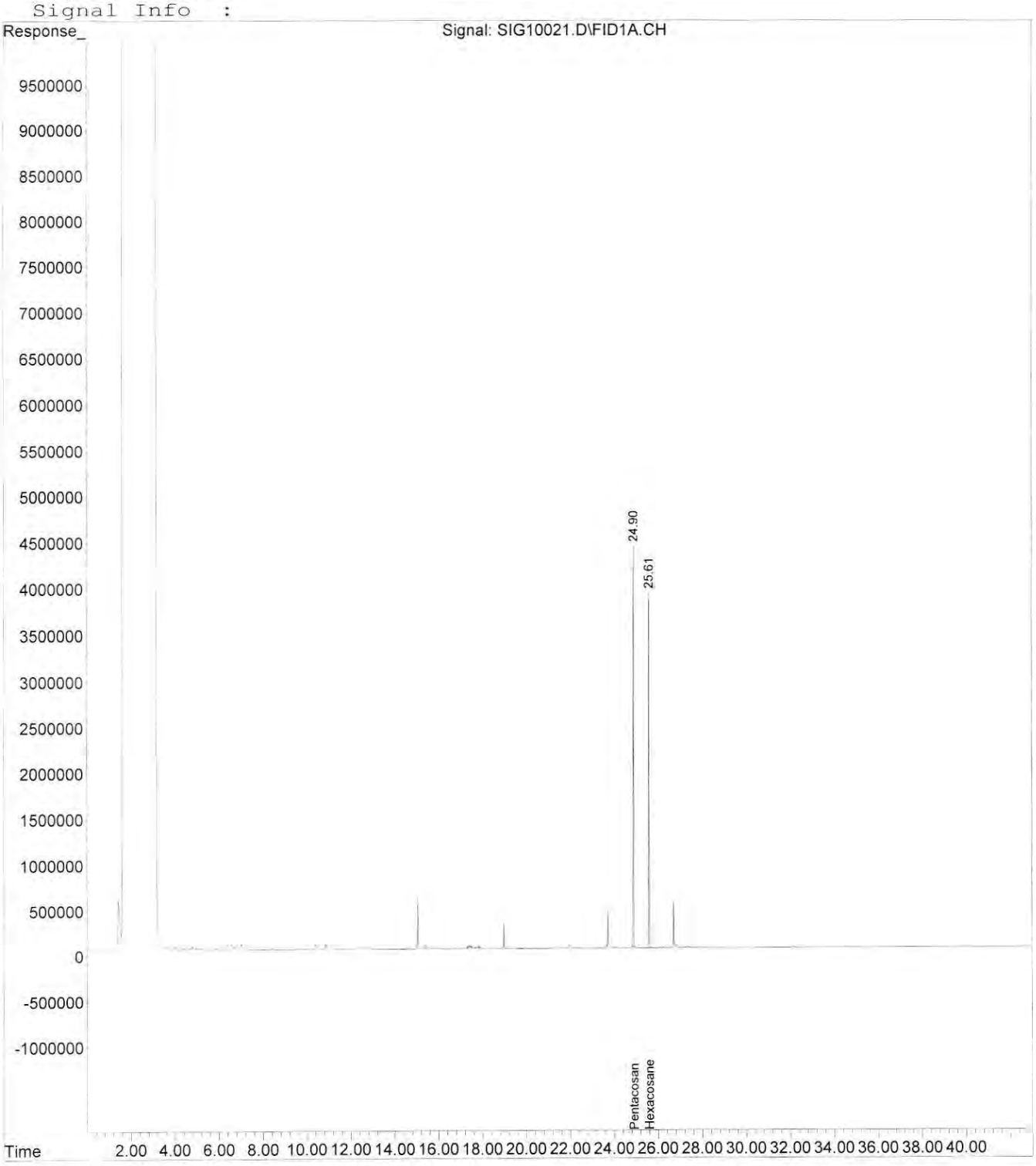
(f)=RT Delta > 1/2 Window (m)=manual int
SIG10021.D 210827LOWDHT.M Thu Sep 09 16:20:18 2021

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10021.D Vial: 20
Acq On : 08 Sep 2021 10:27 Operator: ARC
Sample : WBI0069-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 11:11 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10022.D Vial: 21
Acq On : 08 Sep 2021 11:23 Operator: ARC
Sample : WBI0069-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 12:35:46 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

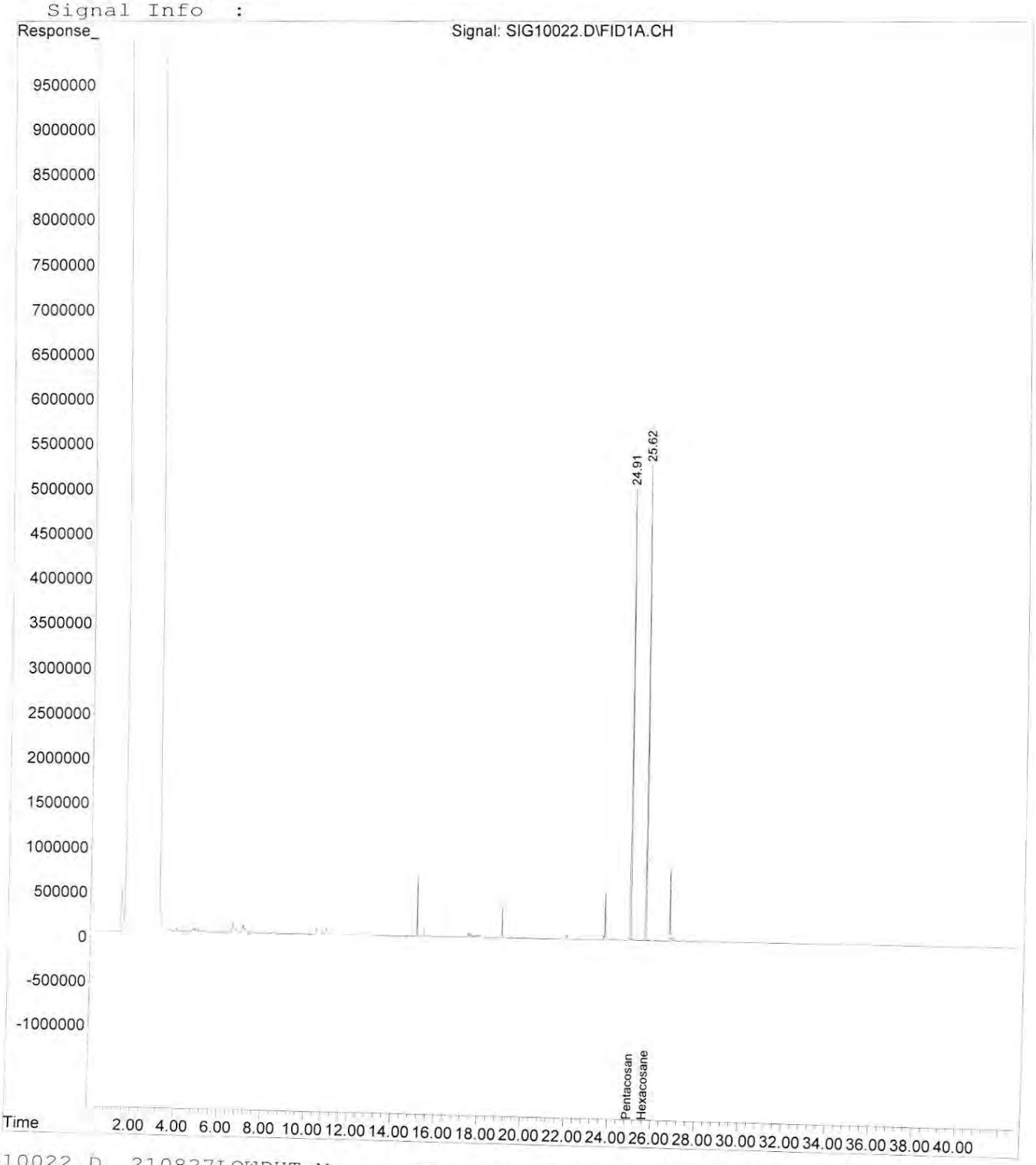
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.91	101183870	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.62	93390018	46.829	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	93.66%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	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	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10022.D Vial: 21
Acq On : 08 Sep 2021 11:23 Operator: ARC
Sample : WBI0069-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 12:36 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10023.D Vial: 22
Acq On : 08 Sep 2021 12:19 Operator: ARC
Sample : WBI0069-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 08 13:03:25 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.90	98313786	50.000	ppm	m
System Monitoring Compounds					
2) S Hexacosane	25.61	91727151	47.338	ppm	m
Spiked Amount 50.000	Range 50 - 150	Recovery = 94.68%			
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	

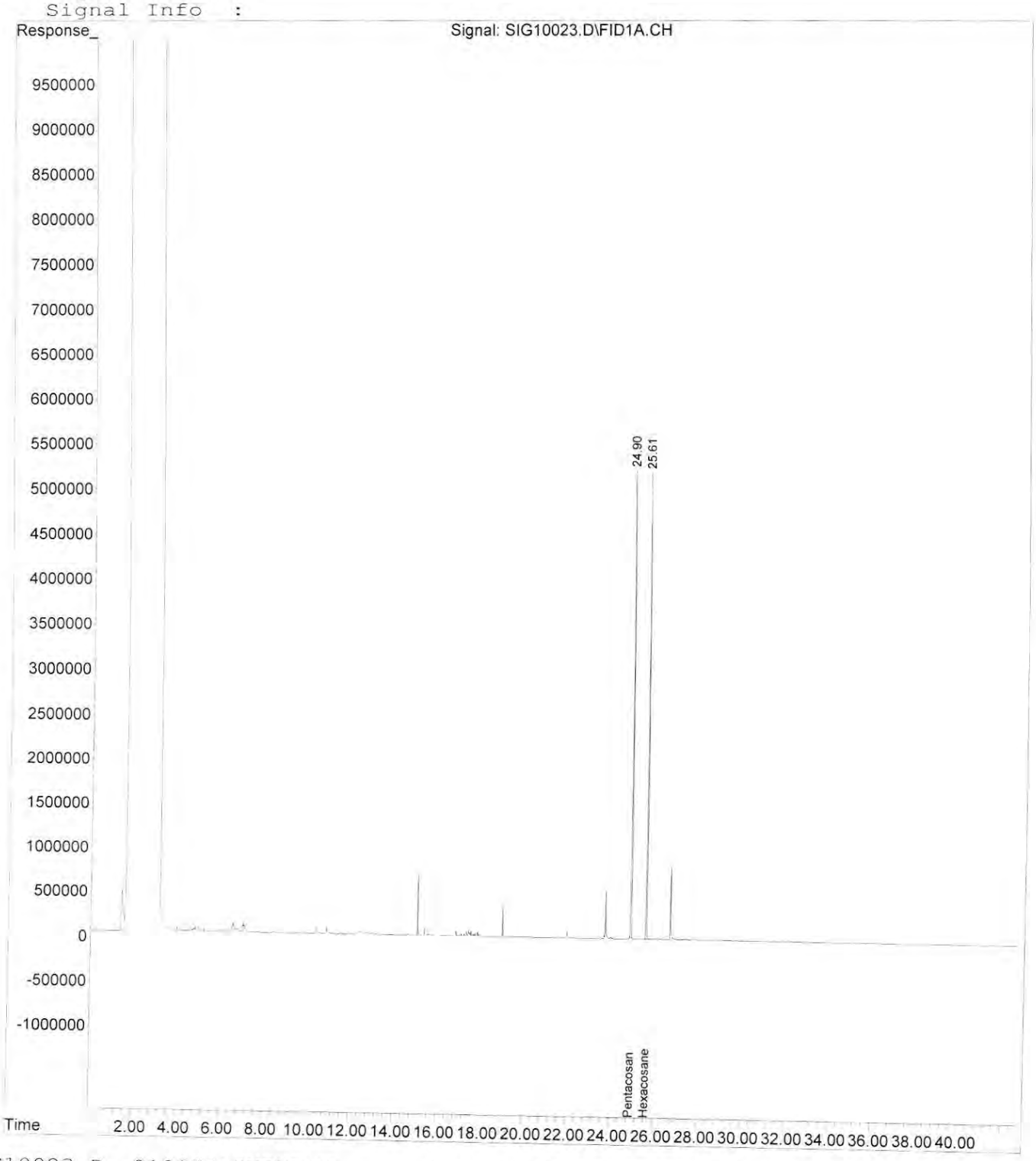
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10023.D Vial: 22
Acq On : 08 Sep 2021 12:19 Operator: ARC
Sample : WBI0069-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 8 13:03 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10029.D Vial: 23
Acq On : 08 Sep 2021 17:54 Operator: ARC
Sample : WBI0069-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 09 08:03:47 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.90	92909611	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.61	88061659	48.089	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	96.18%		
	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	

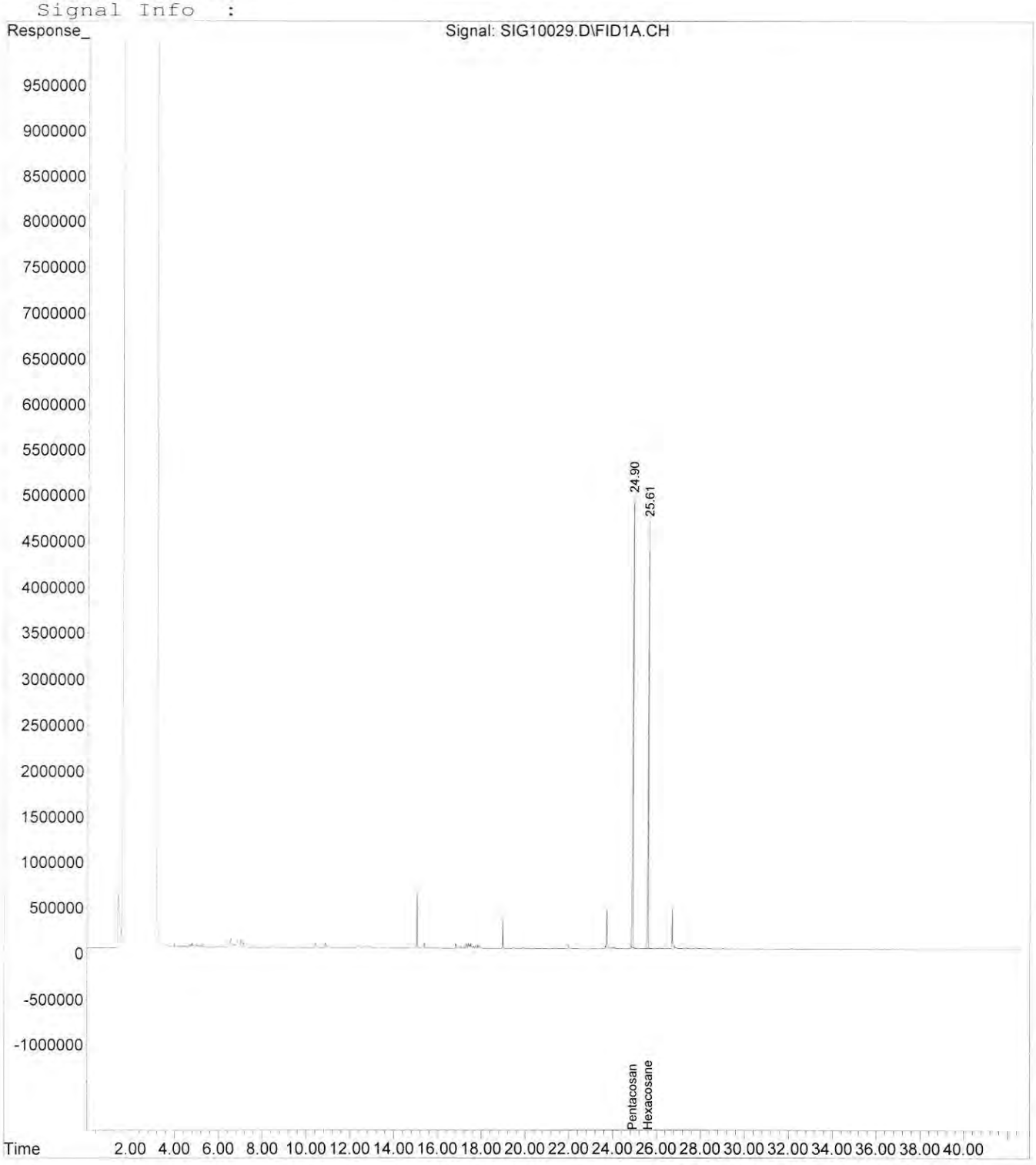
(f)=RT Delta > 1/2 Window (m)=manual int.
SIG10029.D 210827LOWDHT.M Thu Sep 09 16:20:50 2021

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10029.D Vial: 23
Acq On : 08 Sep 2021 17:54 Operator: ARC
Sample : WBI0069-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 9 8:06 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10030.D Vial: 24
Acq On : 08 Sep 2021 18:50 Operator: ARC
Sample : WBI0069-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 09 08:03:48 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

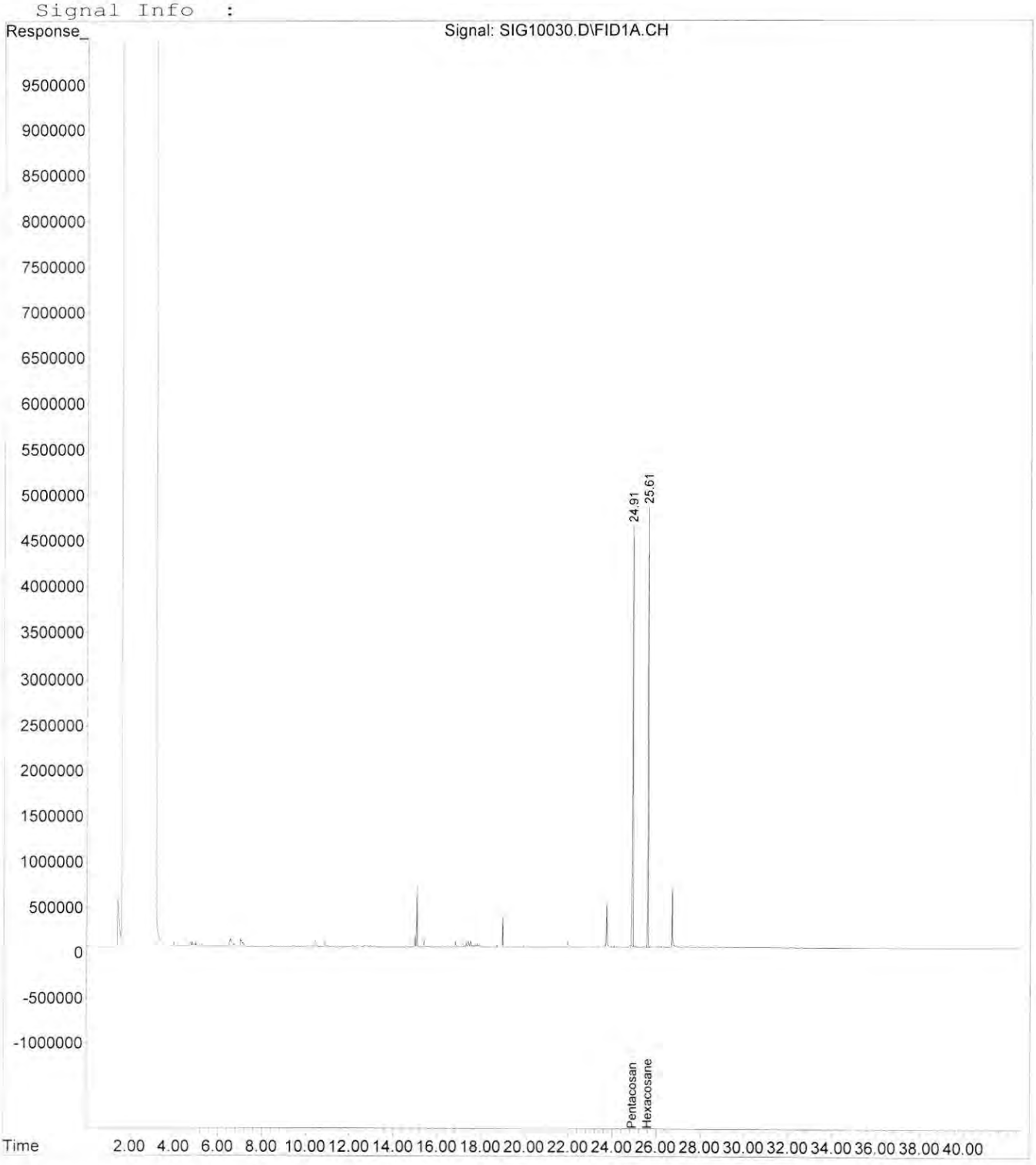
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.91	95074638	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	86494804	46.158	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	92.32%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
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	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10030.D Vial: 24
Acq On : 08 Sep 2021 18:50 Operator: ARC
Sample : WBI0069-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 9 8:07 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10031.D Vial: 25
Acq On : 08 Sep 2021 19:46 Operator: ARC
Sample : WBI0069-13 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 09 08:03:49 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

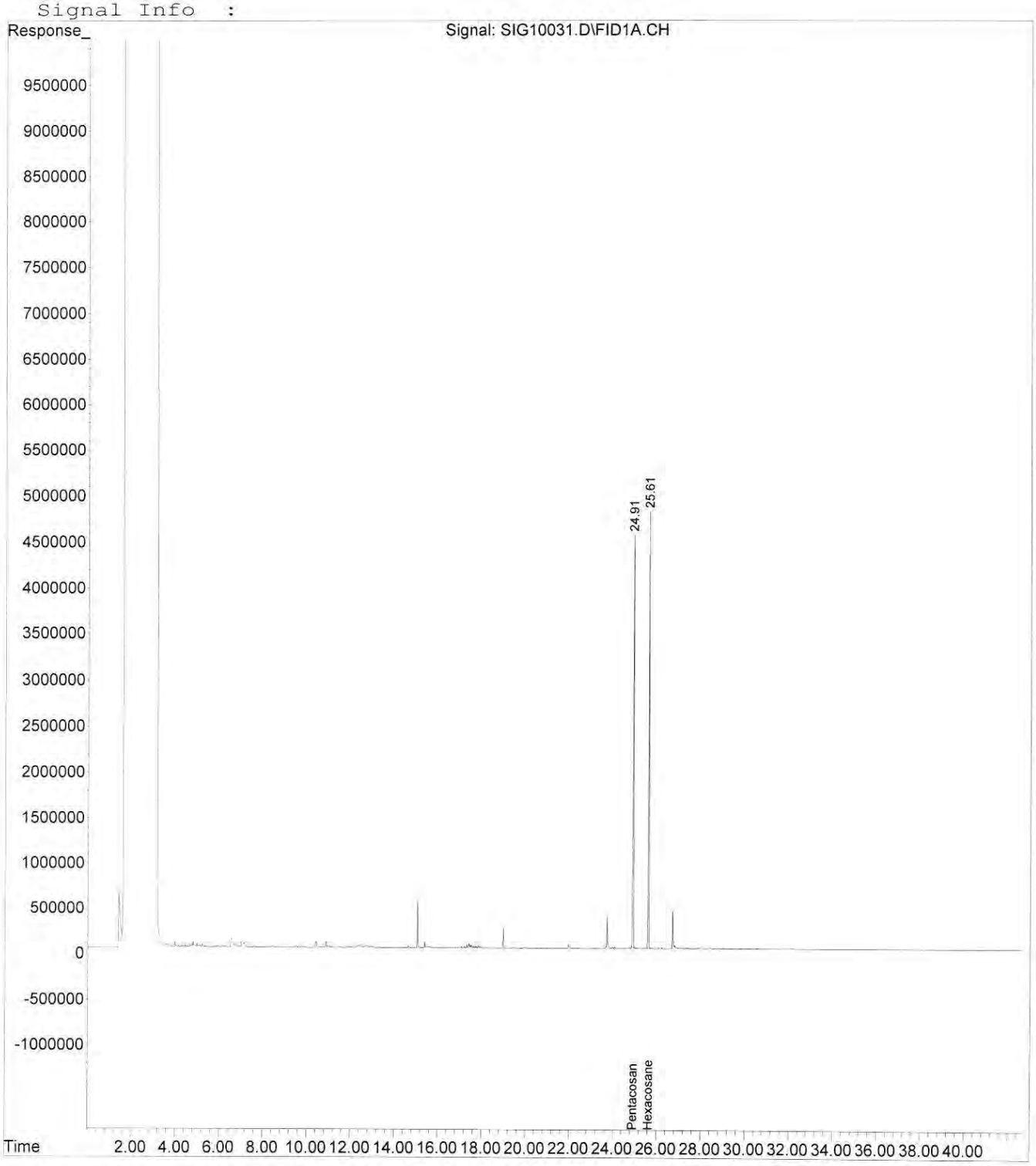
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.91	95373486	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.61	85161121	45.304	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	90.61%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
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)	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	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10031.D Vial: 25
Acq On : 08 Sep 2021 19:46 Operator: ARC
Sample : WBI0069-13 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 9 8:08 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10032.D Vial: 26
Acq On : 08 Sep 2021 20:41 Operator: ARC
Sample : WBI0069-14 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 09 08:03:50 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.90	94759558	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.61	85217273	45.628	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	91.26%		
	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	

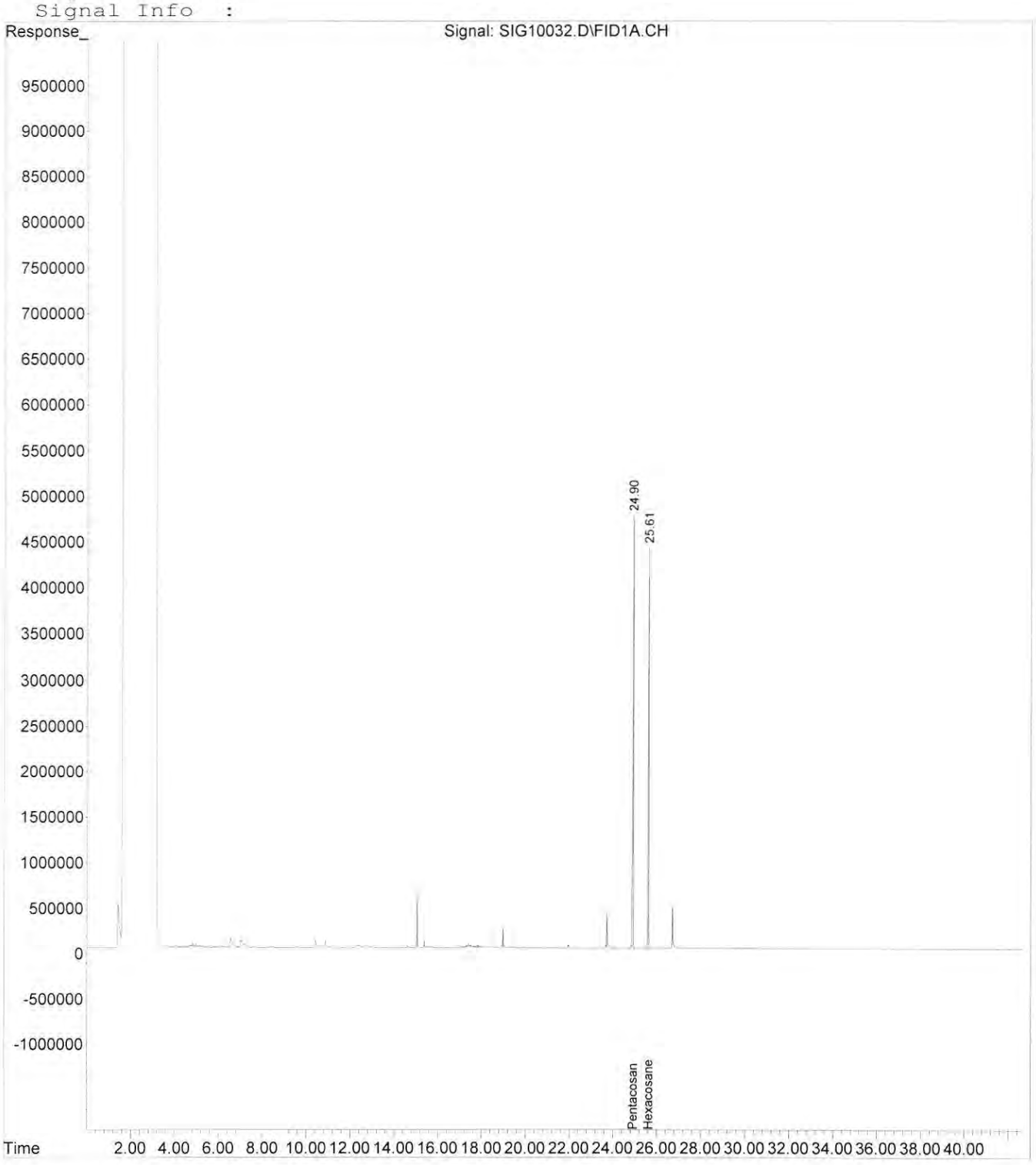
(f)=RT Delta > 1/2 Window (m)=manual in

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10032.D Vial: 26
Acq On : 08 Sep 2021 20:41 Operator: ARC
Sample : WBI0069-14 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 9 8:09 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10033.D Vial: 27
Acq On : 08 Sep 2021 21:37 Operator: ARC
Sample : WBI0069-15 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 09 08:03:52 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

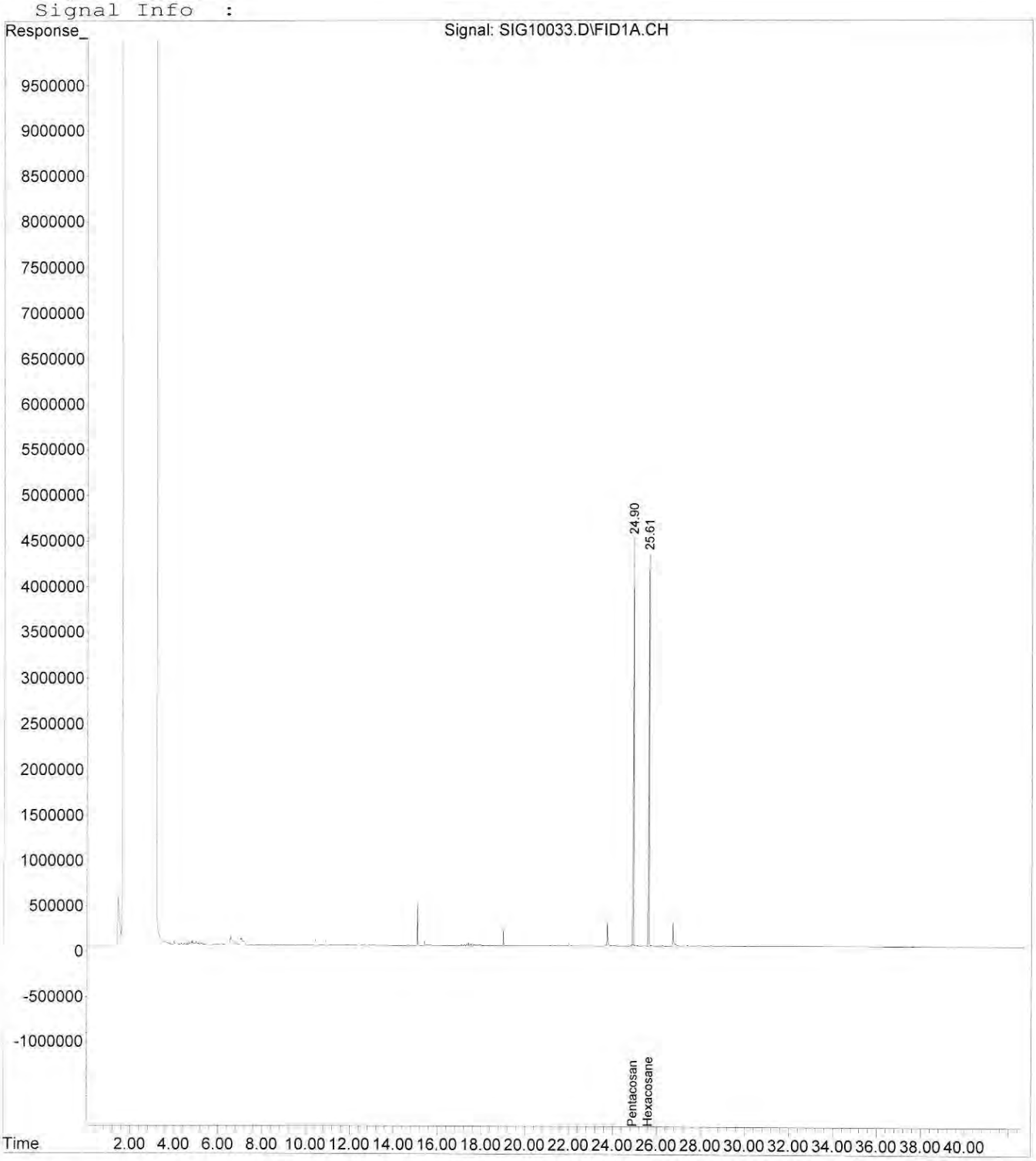
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.90	82057096	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.61	76423927	47.254	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	94.51%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
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	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10033.D Vial: 27
Acq On : 08 Sep 2021 21:37 Operator: ARC
Sample : WBI0069-15 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 9 8:09 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10034.D Vial: 28
Acq On : 08 Sep 2021 22:33 Operator: ARC
Sample : WBI0069-16 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 09 08:03:53 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

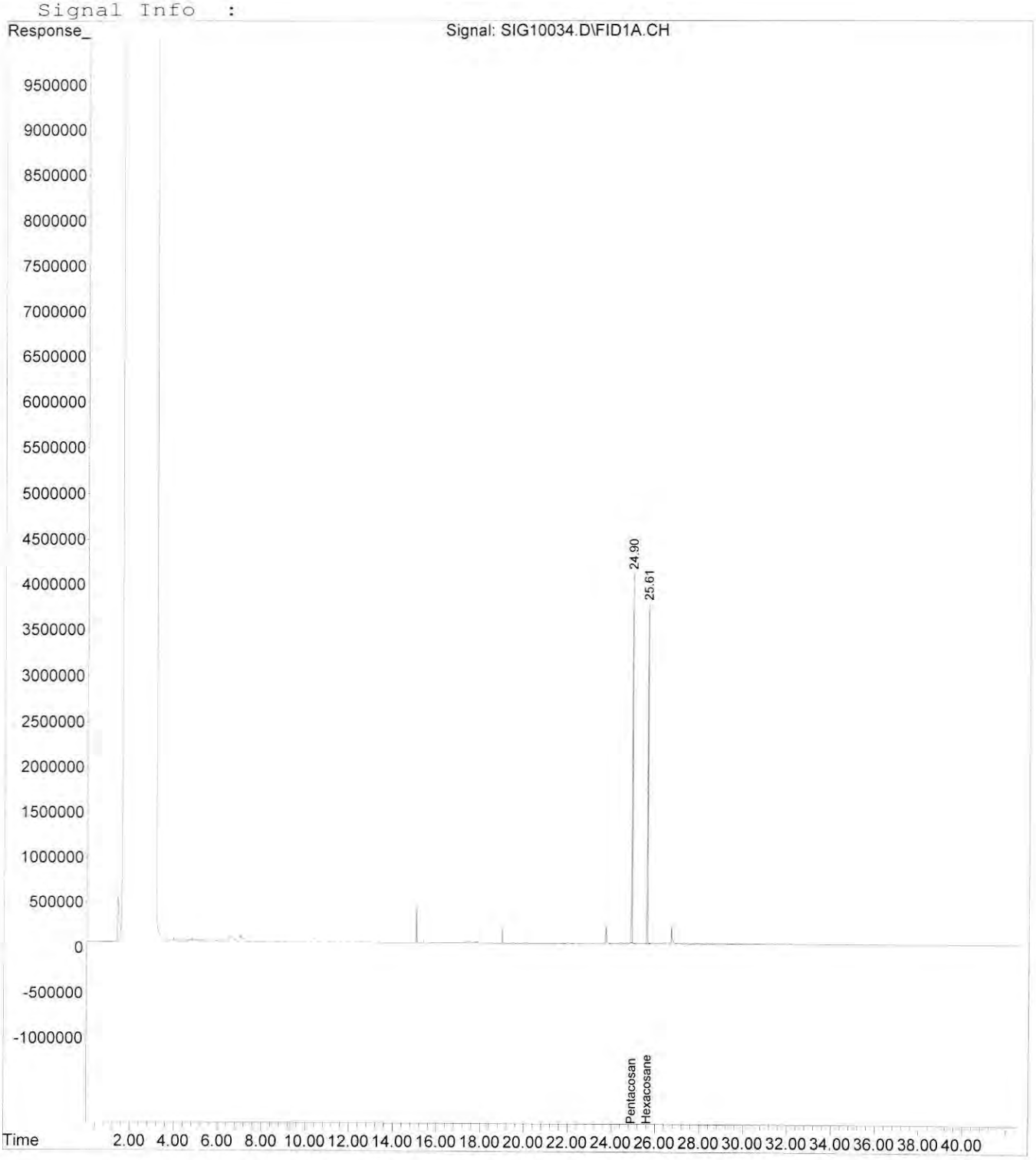
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Pentacosane	24.90	77052197	50.000	ppm	m
System Monitoring Compounds					
2) S Hexacosane	25.61	68064974	44.819	ppm	m
Spiked Amount 50.000 Range 50 - 150		Recovery =	89.64%		
Target Compounds					
3) H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
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	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10034.D Vial: 28
Acq On : 08 Sep 2021 22:33 Operator: ARC
Sample : WBI0069-16 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 9 8:09 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10035.D Vial: 29
Acq On : 08 Sep 2021 23:29 Operator: ARC
Sample : WBI0069-17 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 09 08:03:54 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 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	24.90	90612612	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.61	76511298	42.841	ppm	
Spiked Amount	50.000	Range 50 - 150	Recovery =	85.68%		
	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	245961835	191.329	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

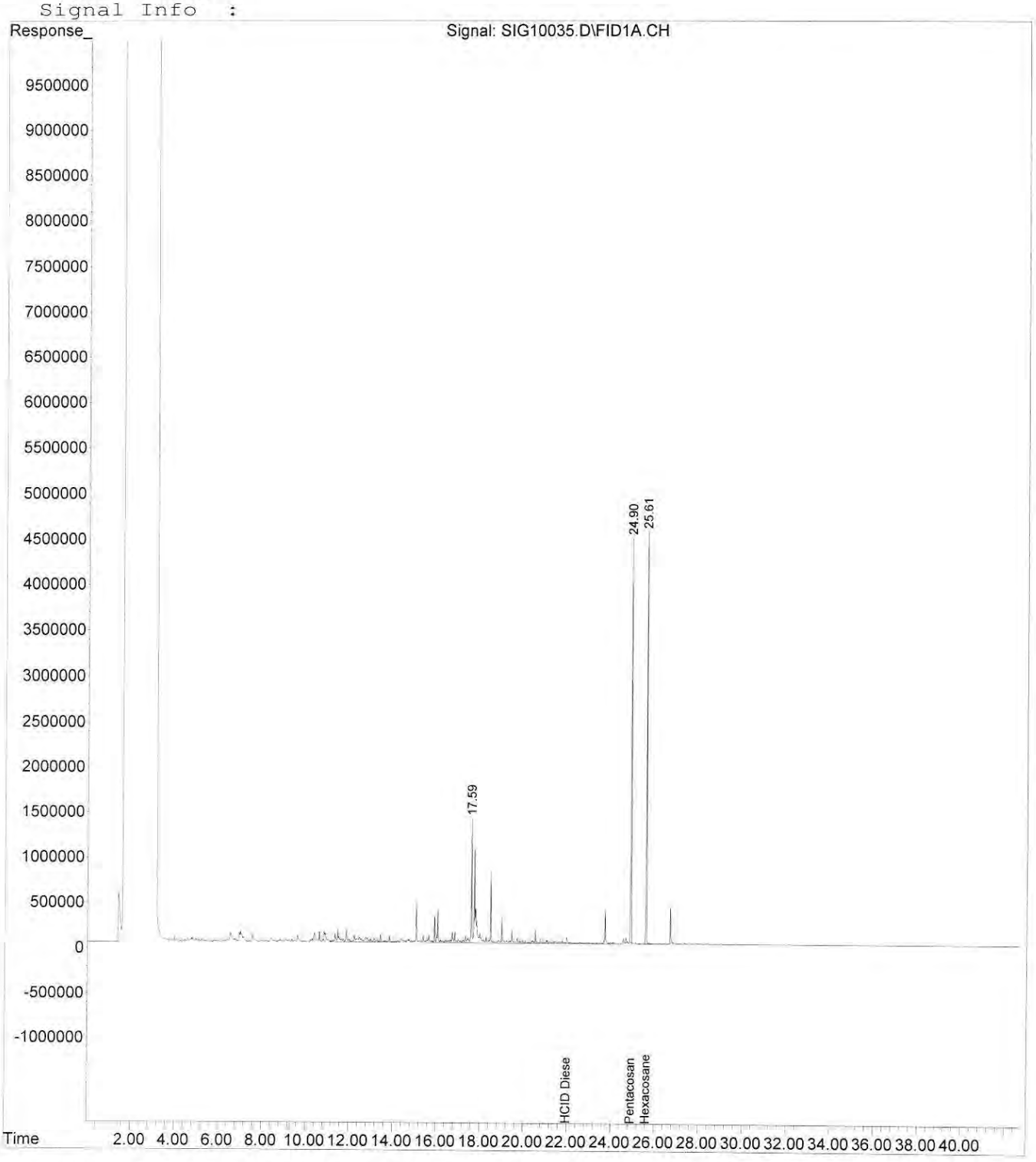
(f)=RT Delta > 1/2 Window (m)=manual in

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2021DATA\090721\SIG10035.D Vial: 29
Acq On : 08 Sep 2021 23:29 Operator: ARC
Sample : WBI0069-17 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Sep 9 8:11 2021 Quant Results File: 210827LOWDHT.RES

Quant Method : W:\HPCHEM\1...\210827LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Mon Aug 30 08:36:11 2021
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Starting sequence Thu Sep 16 11:18:22 2021

Instrument Name: MSD4
Sequence File: T:\Data1\MSD4\SEQUENCES\2021\JUL\0915NHD.s
Comment:
Operator: MAH
Data Path: T:\DATA1\MSD4\2021\SEP\16CAR\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	00101001	SVOCT1	SYS
2)	Sample	2	00201002	SVOCT1	CARD 10 PPM
3)	Sample	3	00301003	SVOCT1	CARD 5 PPM
4)	Sample	4	00401004	SVOCT1	CARD 2.5 PPM
5)	Sample	5	00501005	SVOCT1	CARD 1 PPM
6)	Sample	6	00601006	SVOCT1	CARD 0.5 PPM
7)	Sample	7	00701007	SVOCT1	CARD 0.1 PPM
8)	Sample	8	00801008	SVOCT1	CARD 0.05 PPM
9)	Sample	11	01101009	SVOCT1	LFB
10)	Sample	12	01201010	SVOCT1	LFBD
11)	Sample	13	01301011	SVOCT1	BLK
12)	Sample	14	01401012	SVOCT1	WBI0069-04
13)	Sample	15	01501013	SVOCT1	WBI0069-05
14)	Sample	16	01601014	SVOCT1	WBI0069-06

Sequence completed Thu Sep 16 17:32:05 2021

T:\DATA1\MSD4\2021\SEP\16CAR\2021 Sep 16 1118 Quality Log.LOG
T:\DATA1\MSD4\2021\SEP\16CAR\2021 Sep 16 1118 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	2102811	8/22	1000
CLP Internal Standard	2102881	9/22	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 $MeCl_2$ (2102043).

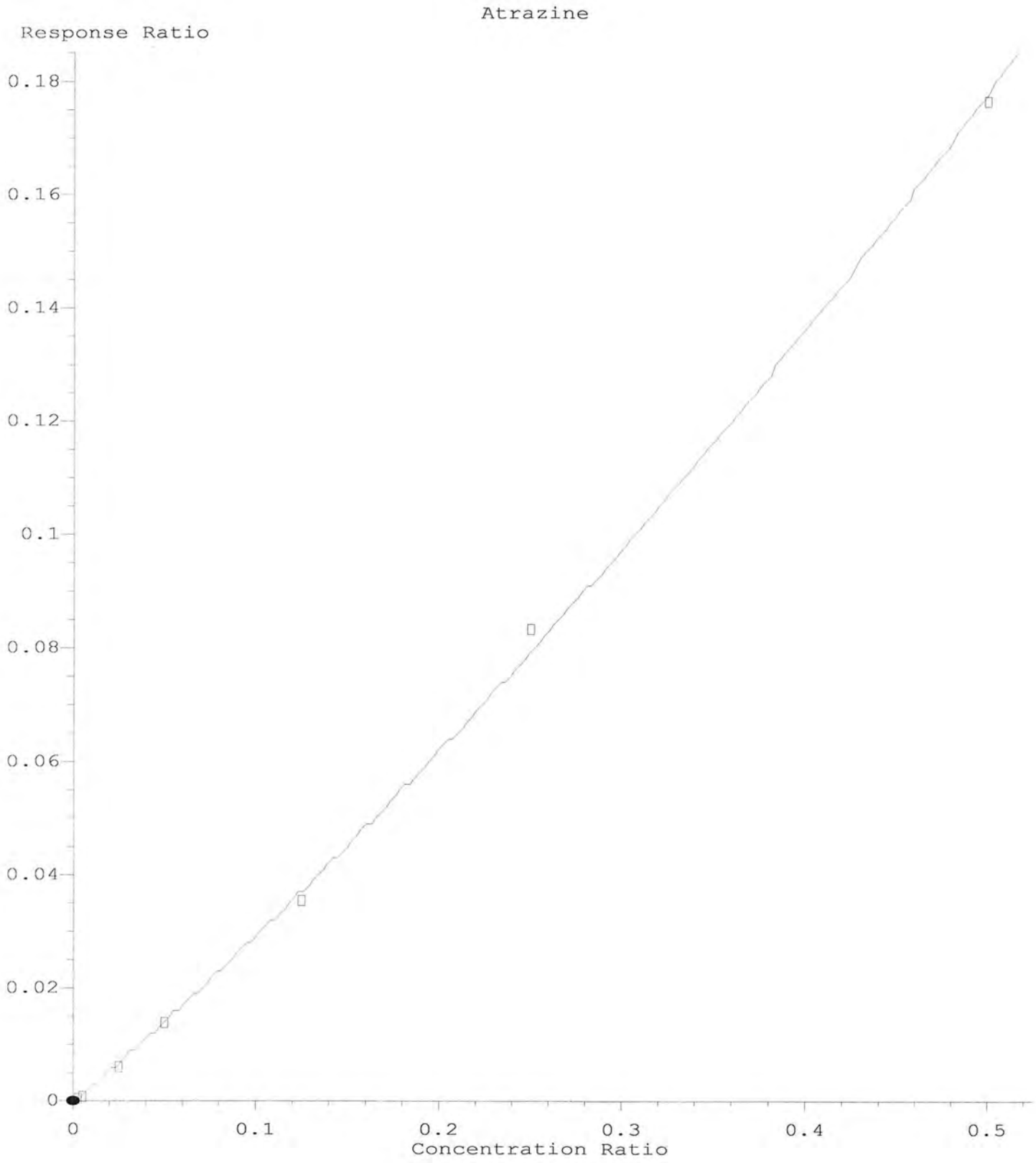
Analyst Initials: _____ Date of Preparation: 9/05/21 by MAH

Method Path : T:\Data1\MSD4\METHODS\2021\
Method File : Cardno0916.M
Title : EPA 8270D - GC MSD4
Last Update : Thu Sep 16 15:25:28 2021
Response Via : Initial Calibration

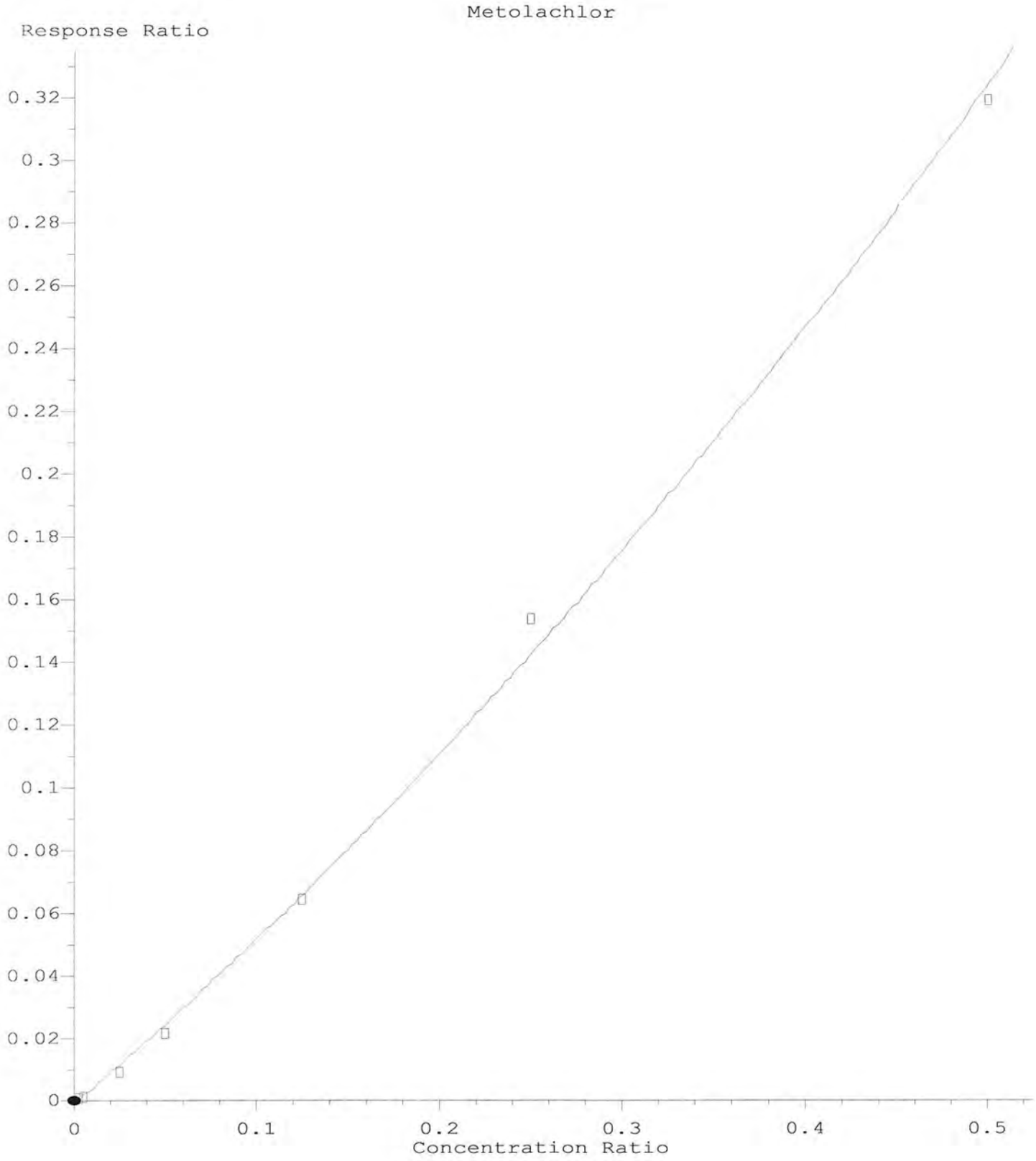
Calibration Files
0.05=00801008.D 10 =00201002.D 5 =00301003.D 2.5 =00401004.D 1 =00501005.D 0.5 =00601006.D
0.1 =00701007.D

		Compound	0.05	10	5	2.5	1	0.5	0.1	Avg	%RSD
1)	I	Dichlorobenzene-d5	----------ISTD----------								
2)	S	2-Fluorobiphenyl	1.764	1.774	1.747	1.697	1.751	1.744	1.763	1.749	1.43
3)	I	Acenaphthene-d10	----------ISTD----------								
4)		Atrazine	0.158	0.353	0.333	0.284	0.277	0.243	0.157	0.258	30.10
5)	I	Phenanthrene-d10	----------ISTD----------								
6)		Metolachlor	0.258	0.640	0.616	0.516	0.432	0.371	0.232	0.438	37.00
7)		Chlorpyrifos	0.054	0.142	0.139	0.121	0.109	0.096	0.060	0.103	34.36
8)	I	Chrysene-d12	----------ISTD----------								
9)	S	Terphenyl-d14	1.294	1.409	1.320	1.373	1.285	1.313	1.340	1.333	3.34

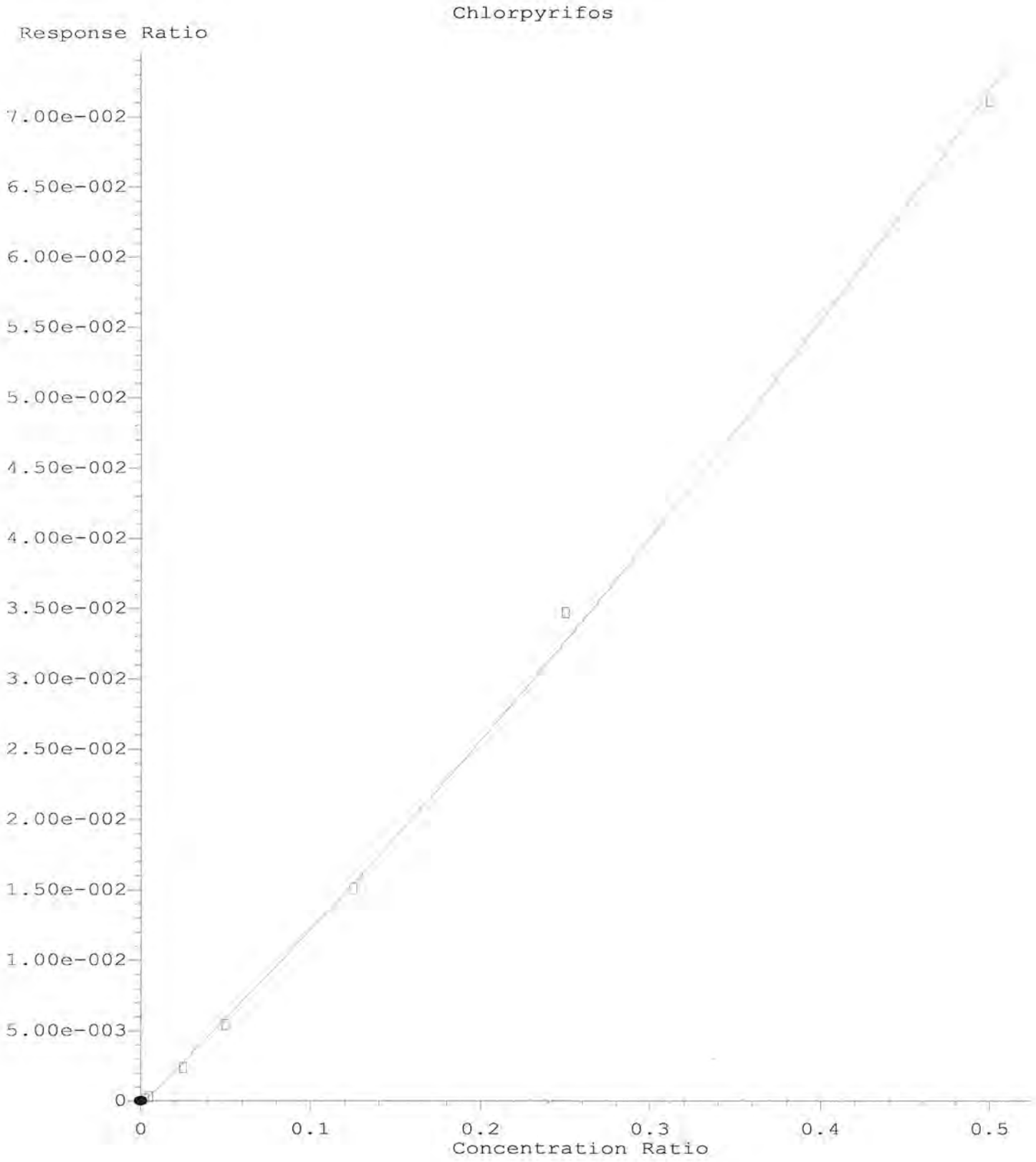
(#) = Out of Range



R = 1.49e-001 A*A + 2.82e-001 A - 4.63e-004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Calibration Table Last Updated: Thu Sep 16 15:25:28 2021



R = 3.11e-001 A*A + 4.96e-001 A - 1.05e-003
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a)
Method Name: T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Calibration Table Last Updated: Thu Sep 16 15:25:28 2021



R = 4.93e-002 A*A + 1.20e-001 A - 2.43e-004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)
Method Name: T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Calibration Table Last Updated: Thu Sep 16 15:25:28 2021

PREPARATION BENCH SHEET
Organics

BBI0513

Print Date/Time: 09/17/2021 9:4 m

Matrix: Water

Prepared using: SVOC - SVOC Water

Analyses
SVOC 625 MISC

Spiking Solution(s)
2102999 Cardno Spk 50

Surrogate Solution(s)
2100830 CLP Acid Surr 2000
2101703 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
BBI0513-BLK1	Blank			9/6/2021 1:30:00AM	1000	1		25	
BBI0513-BS1	LCS			9/6/2021 1:30:00AM	1000	1	50	25	
BBI0513-BSD1	LCS Dup			9/6/2021 1:30:00AM	1000	1	50	25	
WBI0069-04	WW-3	09/15/2021	09/06/2021	9/6/2021 1:30:00AM	1000	1		25	
WBI0069-05	E-1	09/15/2021	09/06/2021	9/6/2021 1:30:00AM	1000	1		25	
WBI0069-06	E-2	09/15/2021	09/06/2021	9/6/2021 1:30:00AM	1000	1		25	

Reagents

Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2000155	H2SO4	58115
2001247	MeCl2	58039
2102881	CLP I.S. Spike 2000	032520

Batch Comments:
Acidic start/stop time: 3PM- 8AM
Basic start/stop tiime: 8AM-3PM
Instrument: 7890/5975 GCMS
Ext. Method: 3520C liq-liq/Waste Dilution/Microextr
TurboVap: 01
Balance: 04

Analyst: _____ Date: _____

Run Date: 9-16-21 Date: _____

C:\Promium\Element\Print\bch_Organics_ls.rpt

DFTPP

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 00101001.D
Acq On : 16 Sep 2021 11:20 am
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Title : EPA 8270D - GC MSD4
Last Update : Thu Sep 16 15:25:28 2021

AutoFind: Scans 1933, 1934, 1935; Background Corrected with Scan 1925

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.7	19849	PASS
68	69	0.00	2	0.7	129	PASS
69	198	0.00	100	50.6	19032	PASS
70	69	0.00	2	0.6	108	PASS
127	198	25	75	52.3	19688	PASS
197	198	0.00	1	0.5	186	PASS
198	198	100	100	100.0	37629	PASS
199	198	5	9	6.8	2540	PASS
275	198	10	60	32.7	12302	PASS
365	198	0.00	100	5.5	2085	PASS
441	443	0.01	100	75.5	10300	PASS
442	198	39	200	184.2	69328	PASS
443	442	15	24	19.7	13637	PASS

Cardno0916.M Fri Sep 17 10:01:38 2021

Area Percent Report

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 00101001.D
Acq On : 16 Sep 2021 11:20 am
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: events.e
Integrator: ChemStation

Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Title : EPA 8270D - GC MSD4

Signal : TIC: 00101001.D\data.ms

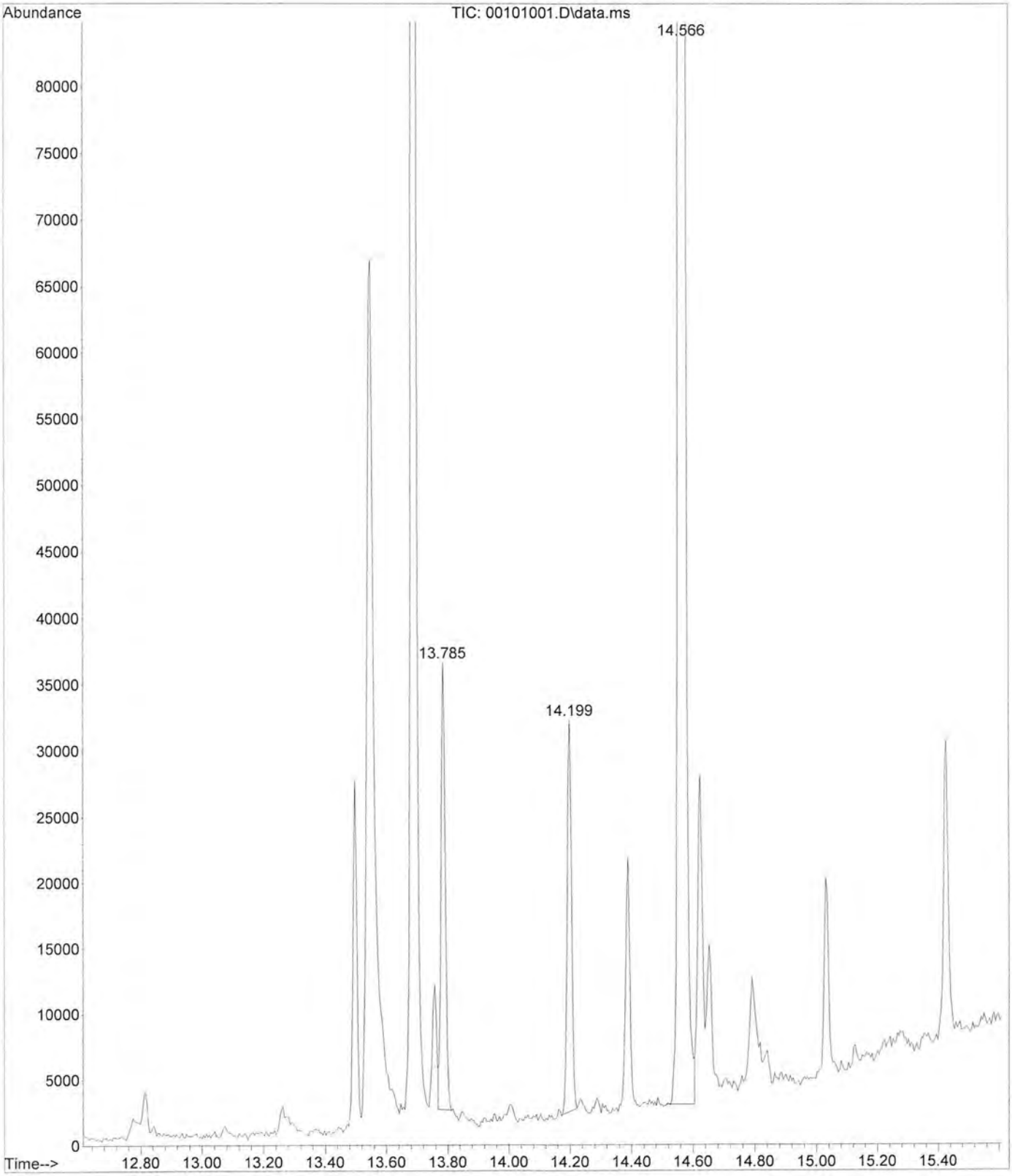
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	13.785	2261	2265	2271	M	34095	332923	6.11%	5.480%
2	14.199	2349	2355	2360	M	29949	296253	5.44%	4.877%
3	14.566	2423	2434	2443	M	543624	5445917	100.00%	89.643%

PDE (?) - Must Include (ND). 9-16-21

Sum of corrected areas: 6075093

Cardno0916.M Fri Sep 17 10:05:41 2021

File :T:\Data1\MSD4\2021\SEP\16CAR\00101001.D
Operator : MAH
Acquired : 16 Sep 2021 11:20 am using AcqMethod SVOCT1.M
Instrument : MSD4
Sample Name: SYS
Misc Info :
Vial Number: 1



Internal Standard ICal Average Responses	CARDNO 9/16/21 (method)

	1,4 Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
0.05	12280057.59		16627990.34	26714499.54	15374524.71	
10	12449146.49		16750717.6	25695994.95	13081650.49	
5	12508157.41		16769468.94	25197115.77	13488889.48	
2.5	11966073.46		16062992.16	24412859.71	12664501.1	
1	12475488.7		16912395.52	27391622.38	15950371.79	
0.5	12463497.43		16983573.92	26863723.1	15082641.59	
0.1	11660033.2		15521126.42	23881546.92	12999723.49	
Average	12257493	#DIV/0!	16518324	25736766	14091758	#DIV/0!
50%	**6128747**	**#DIV/0!**	**8259162**	**12868383**	**7045879**	**#DIV/0!**
150%	**18386240**	**#DIV/0!**	**24777485**	**38605149**	**21137636**	**#DIV/0!**

Analyst: MAH

Evaluate Continuing Calibration Report

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 00201002.D
Acq On : 16 Sep 2021 11:47 am
Operator : MAH
Sample : CARD 10 PPM
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 15:33:19 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Dichlorobenzene-d5	20.000	20.000	0.0	100	0.00
2	S	2-Fluorobiphenyl	25.000	25.369	-1.5	100	0.00
3	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
4		Atrazine	10.000	9.933	0.7	100	0.00
5	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
6		Metolachlor	10.000	9.886	1.1	100	0.00
7		Chlorpyrifos	10.000	9.898	1.0	100	0.00
8	I	Chrysene-d12	20.000	20.000	0.0	100	0.00
9	S	Terphenyl-d14	25.000	26.424	-5.7	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 00301003.D
Acq On : 16 Sep 2021 12:14 pm
Operator : MAH
Sample : CARD 5 PPM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 15:33:28 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Dichlorobenzene-d5	20.000	20.000	0.0	100	0.00
2	S	2-Fluorobiphenyl	25.000	24.973	0.1	100	0.00
3	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
4		Atrazine	5.000	5.220	-4.4	100	0.00
5	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
6		Metolachlor	5.000	5.347	-6.9	100	0.00
7		Chlorpyrifos	5.000	5.278	-5.6	100	0.00
8	I	Chrysene-d12	20.000	20.000	0.0	100	0.00
9	S	Terphenyl-d14	25.000	24.746	1.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 00401004.D
Acq On : 16 Sep 2021 12:41 pm
Operator : MAH
Sample : CARD 2.5 PPM
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 16 15:33:39 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Dichlorobenzene-d5	20.000	20.000	0.0	100	0.00
2	S	2-Fluorobiphenyl	25.000	24.265	2.9	100	0.00
3	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
4		Atrazine	2.500	2.395	4.2	100	0.00
5	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
6		Metolachlor	2.500	2.450	2.0	100	0.00
7		Chlorpyrifos	2.500	2.441	2.4	100	0.00
8	I	Chrysene-d12	20.000	20.000	0.0	100	0.00
9	S	Terphenyl-d14	25.000	25.743	-3.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 00501005.D
Acq On : 16 Sep 2021 1:08 pm
Operator : MAH
Sample : CARD 1 PPM
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 15:34:03 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Dichlorobenzene-d5	20.000	20.000	0.0	100	0.00
2	S	2-Fluorobiphenyl	25.000	25.038	-0.2	100	0.00
3	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
4		Atrazine	1.000	0.990	1.0	100	0.00
5	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
6		Metolachlor	1.000	0.880	12.0	99	0.00
7		Chlorpyrifos	1.000	0.933	6.7	100	0.00
8	I	Chrysene-d12	20.000	20.000	0.0	100	0.00
9	S	Terphenyl-d14	25.000	24.089	3.6	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 00601006.D
Acq On : 16 Sep 2021 1:35 pm
Operator : MAH
Sample : CARD 0.5 PPM
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 15:34:18 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Dichlorobenzene-d5	20.000	20.000	0.0	100	0.00
2	S	2-Fluorobiphenyl	25.000	24.931	0.3	100	0.00
3	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
4		Atrazine	0.500	0.459	8.2	100	0.00
5	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
6		Metolachlor	0.500	0.405	19.0	99	0.00
7		Chlorpyrifos	0.500	0.437	12.6	100	0.00
8	I	Chrysene-d12	20.000	20.000	0.0	100	0.00
9	S	Terphenyl-d14	25.000	24.615	1.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 00701007.D
Acq On : 16 Sep 2021 2:02 pm
Operator : MAH
Sample : CARD 0.1 PPM
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 15:35:26 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Dichlorobenzene-d5	20.000	20.000	0.0	100	0.00
2	S	2-Fluorobiphenyl	25.000	25.214	-0.9	100	0.00
3	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
4		Atrazine	0.100	0.088	12.0	100	0.00
5	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
6		Metolachlor	0.100	0.089	11.0	100	0.00
7		Chlorpyrifos	0.100	0.091	9.0	101	0.00
8	I	Chrysene-d12	20.000	20.000	0.0	100	0.00
9	S	Terphenyl-d14	25.000	25.120	-0.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 00801008.D
Acq On : 16 Sep 2021 2:28 pm
Operator : MAH
Sample : CARD 0.05 PPM
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 15:36:02 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Dichlorobenzene-d5	20.000	20.000	0.0	100	0.00
2	S	2-Fluorobiphenyl	25.000	25.215	-0.9	100	0.00
3	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
4		Atrazine	0.050	0.061	-22.0#	100	0.00
5	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
6		Metolachlor	0.050	0.068	-36.0#	100	0.00
7		Chlorpyrifos	0.050	0.063	-26.0#	100	0.00
8	I	Chrysene-d12	20.000	20.000	0.0	100	0.00
9	S	Terphenyl-d14	25.000	24.263	2.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 01101009.D
Acq On : 16 Sep 2021 2:56 pm
Operator : MAH
Sample : BBI0513-BS1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 15:28:45 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.442	150	11704058	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.062	164	15960693	20.00	ug/mL	0.00
5) Phenanthrene-d10	11.883	188	24582893	20.00	ug/mL	0.00
8) Chrysene-d12	15.125	240	12540604	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.244	172	21715926	21.22	ug/mL	0.00
9) Terphenyl-d14	13.854	244	20519469	24.55	ug/mL	0.00
Spiked Amount 25.000			Recovery =	98.20%		
Target Compounds						Qvalue
4) Atrazine	11.550	200	612672	2.58	ug/mL	96
6) Metolachlor	12.748	162	1629313	2.51	ug/mL	94
7) Chlorpyrifos	12.753	197	367177	2.42	ug/mL	94

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 01201010.D
Acq On : 16 Sep 2021 3:23 pm
Operator : MAH
Sample : BBI0513-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 09:17:15 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.444	150	12146754	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.063	164	16834393	20.00	ug/mL	0.00
5) Phenanthrene-d10	11.883	188	27107944	20.00	ug/mL	0.00
8) Chrysene-d12	15.126	240	14911428	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.245	172	22811523	21.48	ug/mL	0.00
9) Terphenyl-d14	13.854	244	23180675	23.32	ug/mL	0.00
Spiked Amount 25.000			Recovery =	93.28%		
Target Compounds						Qvalue
4) Atrazine	11.551	200	694049	2.76	ug/mL	92
6) Metolachlor	12.748	162	1829253	2.56	ug/mL	95
7) Chlorpyrifos	12.753	197	406901	2.43	ug/mL	95

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 01301011.D
Acq On : 16 Sep 2021 3:50 pm
Operator : MAH
Sample : BBI0513-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 16:25:37 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.446	150	10781756	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.060	164	14465274	20.00	ug/mL	0.00
5) Phenanthrene-d10	11.881	188	22316350	20.00	ug/mL	0.00
8) Chrysene-d12	15.125	240	11881237	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.242	172	17475320	18.54	ug/mL	0.00
9) Terphenyl-d14	13.852	244	15756397	19.90	ug/mL	0.00
Spiked Amount 25.000			Recovery =	79.60%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 01401012.D
Acq On : 16 Sep 2021 4:17 pm
Operator : MAH
Sample : WBI0069-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 09:04:28 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.443	150	11278397	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.062	164	15799956	20.00	ug/mL	0.00
5) Phenanthrene-d10	11.882	188	25313903	20.00	ug/mL	0.00
8) Chrysene-d12	15.126	240	15093071	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.245	172	28535275	28.94	ug/mL	0.00
9) Terphenyl-d14	13.855	244	24461801	24.32	ug/mL	0.00
Spiked Amount 25.000			Recovery =	97.28%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 01501013.D
Acq On : 16 Sep 2021 4:44 pm
Operator : MAH
Sample : WBI0069-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:06:21 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.443	150	9980919	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.062	164	13333773	20.00	ug/mL	0.00
5) Phenanthrene-d10	11.883	188	20118369	20.00	ug/mL	0.00
8) Chrysene-d12	15.125	240	11280348	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.245	172	23447701	26.87	ug/mL	0.00
9) Terphenyl-d14	13.854	244	18778354	24.97	ug/mL	0.00
Spiked Amount 25.000			Recovery =	99.88%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2021\SEP\16CAR\
Data File : 01601014.D
Acq On : 16 Sep 2021 5:11 pm
Operator : MAH
Sample : WBI0069-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 09:08:28 2021
Quant Method : T:\Data1\MSD4\METHODS\2021\Cardno0916.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Sep 16 15:25:28 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.442	150	12098652	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.062	164	16264547	20.00	ug/mL	0.00
5) Phenanthrene-d10	11.883	188	24855029	20.00	ug/mL	0.00
8) Chrysene-d12	15.126	240	13814267	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.245	172	30435746	28.77	ug/mL	0.00
9) Terphenyl-d14	13.855	244	23000191	24.98	ug/mL	0.00
Spiked Amount 25.000			Recovery =	99.92%		
Target Compounds						Qvalue

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

NON DW SV EXTRACTION LOG DATE 9/21/21 ANALYST MER

Methods: 8270C / EPA 6850 / EPA 8321B
Instrument: LC-MS-MS
Ext. Method: EPA 3535 SPE/ Liq-Solid microextraction and derivatization

Internal Standard (IS)	Solution #	Concentration (ppm)
Glyphosate-$^{13}C_2$	M481-02	10
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppm)**
Glyphosate / AMPA	2100416	25/50

	Standard or Sample # (Glyphosate / AMPA)	Reaction volume	Sample	FMOC (mL)	Buffer (mL)	IS (µL)	Cal Std or Spike (µl)	Final Mult
	250 ppb / 500 ppb	2 ml	1.0	0.5	0.5	10	20	
	125 ppb / 250 ppb	2 ml	1.0	0.5	0.5	10	10	
	50 ppb / 100 ppb	2 ml	1.0	0.5	0.5	10	4	
	25 ppb / 50 ppb	2 ml	1.0	0.5	0.5	10	2	
	12.5 ppb / 25 ppb	2 ml	1.0	0.5	0.5	10	1	
	6.25 ppb/12.5 ppb	2 ml	1.0	0.5	0.5	10	0.5	
	BLK1	2 ml	1.0	0.5	0.5	10	0	
	BS1	2 ml	1.0	0.5	0.5	10	4	
	WBI0069-04	2 ml	1.0	0.5	0.5	10	0	
	WBI0069-04MS	2 ml	1.0	0.5	0.5	10	4	
	WBI0069-04MSD	2 ml	1.0	0.5	0.5	10	4	
	WBI0069-05	2 ml	1.0	0.5	0.5	10	0	
	WBI0069-06	2 ml	1.0	0.5	0.5	10	0	
	MBH0450-01	2 ml	1.0	0.5	0.5	10	0	
	MBH0450-02	2 ml	1.0	0.5	0.5	10	0	
	MBH0450-03	2 ml	1.0	0.5	0.5	10	0	
	MBI0621-01	2 ml	1.0	0.5	0.5	10	0	
	MBI0621-02	2 ml	1.0	0.5	0.5	10	0	
	MBI0621-03	2 ml	1.0	0.5	0.5	10	0	

Prepped samples were heated overnight at 40°C in a water bath.
Derivatized samples were diluted into well plate for analysis as follows
(100 µL 2% phosphoric acid / 700 µL water / 200 µL derivatized extract)

Reagents
FMOC – 5 mg/mL in Acetonitrile 2% Phosphoric Acid Buffer – 5 % Sodium Tetraborate

	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 gl	Standard	9/23/2021 9:47:	092321_gly\Da	1.00	Glyphosate	4.90e+006	250.	1.22e+006	251.	100.
2	250/500 ppb gl	Standard	9/23/2021 9:47:	092321_gly\Da	1.00	Glyphosate1	1.94e+006	250.	1.22e+006	254.	101.
3	250/500 ppb gl	Standard	9/23/2021 9:47:	092321_gly\Da	1.00	AMPA	4.71e+006	500.	1.22e+006	501.	100.
4	250/500 ppb gl	Standard	9/23/2021 9:47:	092321_gly\Da	1.00	AMPA1	1.80e+006	500.	1.22e+006	503.	101.
5	125/250 ppb gl	Standard	9/23/2021 9:53:	092321_gly\Da	1.00	Glyphosate	2.26e+006	125.	9.66e+005	124.	99.1
6	125/250 ppb gl	Standard	9/23/2021 9:53:	092321_gly\Da	1.00	Glyphosate1	8.14e+005	125.	9.66e+005	118.	94.6
7	125/250 ppb gl	Standard	9/23/2021 9:53:	092321_gly\Da	1.00	AMPA	2.10e+006	250.	9.66e+005	246.	98.6
8	125/250 ppb gl	Standard	9/23/2021 9:53:	092321_gly\Da	1.00	AMPA1	7.49e+005	250.	9.66e+005	244.	97.5
9	50/100 ppb gly	Standard	9/23/2021 10:00	092321_gly\Da	1.00	Glyphosate	8.82e+005	50.0	8.31e+005	51.0	102.
10	50/100 ppb gly	Standard	9/23/2021 10:00	092321_gly\Da	1.00	Glyphosate1	3.27e+005	50.0	8.31e+005	51.5	103.
11	50/100 ppb gly	Standard	9/23/2021 10:00	092321_gly\Da	1.00	AMPA	8.09e+005	100.	8.31e+005	103.	103.
12	50/100 ppb gly	Standard	9/23/2021 10:00	092321_gly\Da	1.00	AMPA1	2.85e+005	100.	8.31e+005	104.	104.
13	25/50 ppb gly	Standard	9/23/2021 10:07	092321_gly\Da	1.00	Glyphosate	5.34e+005	25.0	9.87e+005	24.7	98.9
14	25/50 ppb gly	Standard	9/23/2021 10:07	092321_gly\Da	1.00	Glyphosate1	2.17e+005	25.0	9.87e+005	27.8	111.
15	25/50 ppb gly	Standard	9/23/2021 10:07	092321_gly\Da	1.00	AMPA	4.98e+005	50.0	9.87e+005	52.2	104.
16	25/50 ppb gly	Standard	9/23/2021 10:07	092321_gly\Da	1.00	AMPA1	1.71e+005	50.0	9.87e+005	51.8	104.
17	12.5/25 ppb gl	Standard	9/23/2021 10:14	092321_gly\Da	1.00	Glyphosate	2.84e+005	12.5	9.93e+005	12.3	98.8
18	12.5/25 ppb gl	Standard	9/23/2021 10:14	092321_gly\Da	1.00	Glyphosate1	1.02e+005	12.5	9.93e+005	12.2	97.4
19	12.5/25 ppb gl	Standard	9/23/2021 10:14	092321_gly\Da	1.00	AMPA	2.01e+005	25.0	9.93e+005	20.6	82.5
20	12.5/25 ppb gl	Standard	9/23/2021 10:14	092321_gly\Da	1.00	AMPA1	7.44e+004	25.0	9.93e+005	22.5	89.9
21	6.25/12.5 ppb	Standard	9/23/2021 10:21	092321_gly\Da	1.00	Glyphosate	1.52e+005	6.25	9.58e+005	6.31	101.
22	6.25/12.5 ppb	Standard	9/23/2021 10:21	092321_gly\Da	1.00	Glyphosate1	5.15e+004	6.25	9.58e+005	5.78	92.5
23	6.25/12.5 ppb	Standard	9/23/2021 10:21	092321_gly\Da	1.00	AMPA	1.31e+005	12.5	9.58e+005	13.9	111.
24	6.25/12.5 ppb	Standard	9/23/2021 10:21	092321_gly\Da	1.00	AMPA1	4.13e+004	12.5	9.58e+005	13.1	105.
25	RINSE	Quality Cont	9/23/2021 10:27	092321_gly\Da	1.00	Glyphosate	1.11e+004	0.00	1.16e+006	< 0	N/A
26	RINSE	Quality Cont	9/23/2021 10:27	092321_gly\Da	1.00	Glyphosate1	0.00e+000	0.00	1.16e+006	No Peak	N/A
27	RINSE	Quality Cont	9/23/2021 10:27	092321_gly\Da	1.00	AMPA	1.01e+004	0.00	1.16e+006	0.916	N/A
28	RINSE	Quality Cont	9/23/2021 10:27	092321_gly\Da	1.00	AMPA1	3.29e+003	0.00	1.16e+006	1.26	N/A
	BLK	Quality Cont	9/23/2021 10:34	092321_gly\Da	1.00	Glyphosate	5.78e+003	0.00	1.08e+006	< 0	N/A
	BLK	Quality Cont	9/23/2021 10:34	092321_gly\Da	1.00	Glyphosate1	0.00e+000	0.00	1.08e+006	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	BLK	Quality Cont	9/23/2021 10:34	092321_gly\Da	1.00	AMPA	2.84e+003	0.00	1.08e+006	0.299	N/A
32	BLK	Quality Cont	9/23/2021 10:34	092321_gly\Da	1.00	AMPA1	0.00e+000	0.00	1.08e+006	No Peak	N/A
33	BS	Quality Cont	9/23/2021 10:41	092321_gly\Da	1.00	Glyphosate	1.03e+006	50.0	9.60e+005	51.9	104.
34	BS	Quality Cont	9/23/2021 10:41	092321_gly\Da	1.00	Glyphosate1	3.57e+005	50.0	9.60e+005	48.6	97.1
35	BS	Quality Cont	9/23/2021 10:41	092321_gly\Da	1.00	AMPA	7.77e+005	100.	9.60e+005	85.0	85.0
36	BS	Quality Cont	9/23/2021 10:41	092321_gly\Da	1.00	AMPA1	2.54e+005	100.	9.60e+005	79.5	79.5
37	WBI0069-04	Quality Cont	9/23/2021 10:47	092321_gly\Da	1.00	Glyphosate	8.24e+003	0.00	1.94e+005	0.879	N/A
38	WBI0069-04	Quality Cont	9/23/2021 10:47	092321_gly\Da	1.00	Glyphosate1	0.00e+000	0.00	1.94e+005	No Peak	N/A
39	WBI0069-04	Quality Cont	9/23/2021 10:47	092321_gly\Da	1.00	AMPA	5.82e+003	0.00	1.94e+005	~~3.07~~ ND	N/A
40	WBI0069-04	Quality Cont	9/23/2021 10:47	092321_gly\Da	1.00	AMPA1	0.00e+000	0.00	1.94e+005	No Peak	N/A
41	WBI0069-04M	Quality Cont	9/23/2021 10:54	092321_gly\Da	1.00	Glyphosate	2.05e+005	50.0	2.07e+005	47.3	94.6
42	WBI0069-04M	Quality Cont	9/23/2021 10:54	092321_gly\Da	1.00	Glyphosate1	7.57e+004	50.0	2.07e+005	47.7	95.4
43	WBI0069-04M	Quality Cont	9/23/2021 10:54	092321_gly\Da	1.00	AMPA	2.34e+005	100.	2.07e+005	121.	121.
44	WBI0069-04M	Quality Cont	9/23/2021 10:54	092321_gly\Da	1.00	AMPA1	8.40e+004	100.	2.07e+005	123.	123.
45	WBI0069-04M	Quality Cont	9/23/2021 11:01	092321_gly\Da	1.00	Glyphosate	1.51e+005	50.0	1.47e+005	49.3	98.7
46	WBI0069-04M	Quality Cont	9/23/2021 11:01	092321_gly\Da	1.00	Glyphosate1	4.88e+004	50.0	1.47e+005	43.2	86.3
47	WBI0069-04M	Quality Cont	9/23/2021 11:01	092321_gly\Da	1.00	AMPA	2.09e+005	100.	1.47e+005	155.	155.
48	WBI0069-04M	Quality Cont	9/23/2021 11:01	092321_gly\Da	1.00	AMPA1	6.27e+004	100.	1.47e+005	130.	130.
49	WBI0069-05	Unknown	9/23/2021 11:08	092321_gly\Da	1.00	Glyphosate	1.03e+003	N/A	8.07e+004	< 0	N/A
50	WBI0069-05	Unknown	9/23/2021 11:08	092321_gly\Da	1.00	Glyphosate1	0.00e+000	N/A	8.07e+004	No Peak	N/A
51	WBI0069-05	Unknown	9/23/2021 11:08	092321_gly\Da	1.00	AMPA	3.36e+003	N/A	8.07e+004	~~4.24~~ ND	N/A
52	WBI0069-05	Unknown	9/23/2021 11:08	092321_gly\Da	1.00	AMPA1	0.00e+000	N/A	8.07e+004	No Peak	N/A
53	WBI0069-06	Unknown	9/23/2021 11:14	092321_gly\Da	1.00	Glyphosate	0.00e+000	N/A	9.36e+004	No Peak	N/A
54	WBI0069-06	Unknown	9/23/2021 11:14	092321_gly\Da	1.00	Glyphosate1	0.00e+000	N/A	9.36e+004	No Peak	N/A
55	WBI0069-06	Unknown	9/23/2021 11:14	092321_gly\Da	1.00	AMPA	0.00e+000	N/A	9.36e+004	No Peak	N/A
56	WBI0069-06	Unknown	9/23/2021 11:14	092321_gly\Da	1.00	AMPA1	0.00e+000	N/A	9.36e+004	No Peak	N/A
57	MBH0450-01	Unknown	9/23/2021 11:21	092321_gly\Da	1.00	Glyphosate	0.00e+000	N/A	1.05e+006	No Peak	N/A
58	MBH0450-01	Unknown	9/23/2021 11:21	092321_gly\Da	1.00	Glyphosate1	0.00e+000	N/A	1.05e+006	No Peak	N/A
	MBH0450-01	Unknown	9/23/2021 11:21	092321_gly\Da	1.00	AMPA	3.39e+003	N/A	1.05e+006	~~0.359~~ ND	N/A
	MBH0450-01	Unknown	9/23/2021 11:21	092321_gly\Da	1.00	AMPA1	0.00e+000	N/A	1.05e+006	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 (%)
61	MBH0450-02	Unknown	9/23/2021 11:28	092321_gly\Da	1.00	Glyphosate	3.06e+003	N/A	1.04e+006	< 0	N/A
62	MBH0450-02	Unknown	9/23/2021 11:28	092321_gly\Da	1.00	Glyphosate1	0.00e+000	N/A	1.04e+006	No Peak	N/A
63	MBH0450-02	Unknown	9/23/2021 11:28	092321_gly\Da	1.00	AMPA	0.00e+000	N/A	1.04e+006	No Peak	N/A
64	MBH0450-02	Unknown	9/23/2021 11:28	092321_gly\Da	1.00	AMPA1	0.00e+000	N/A	1.04e+006	No Peak	N/A
65	MBH0450-03	Unknown	9/23/2021 11:35	092321_gly\Da	1.00	Glyphosate	3.51e+003	N/A	1.17e+006	< 0	N/A
66	MBH0450-03	Unknown	9/23/2021 11:35	092321_gly\Da	1.00	Glyphosate1	0.00e+000	N/A	1.17e+006	No Peak	N/A
67	MBH0450-03	Unknown	9/23/2021 11:35	092321_gly\Da	1.00	AMPA	0.00e+000	N/A	1.17e+006	No Peak	N/A
68	MBH0450-03	Unknown	9/23/2021 11:35	092321_gly\Da	1.00	AMPA1	0.00e+000	N/A	1.17e+006	No Peak	N/A
69	MBI0621-01	Unknown	9/23/2021 11:41	092321_gly\Da	1.00	Glyphosate	0.00e+000	N/A	6.57e+005	No Peak	N/A
70	MBI0621-01	Unknown	9/23/2021 11:41	092321_gly\Da	1.00	Glyphosate1	0.00e+000	N/A	6.57e+005	No Peak	N/A
71	MBI0621-01	Unknown	9/23/2021 11:41	092321_gly\Da	1.00	AMPA	0.00e+000	N/A	6.57e+005	No Peak	N/A
72	MBI0621-01	Unknown	9/23/2021 11:41	092321_gly\Da	1.00	AMPA1	0.00e+000	N/A	6.57e+005	No Peak	N/A
73	MBI0621-02	Unknown	9/23/2021 11:48	092321_gly\Da	1.00	Glyphosate	0.00e+000	N/A	5.06e+005	No Peak	N/A
74	MBI0621-02	Unknown	9/23/2021 11:48	092321_gly\Da	1.00	Glyphosate1	0.00e+000	N/A	5.06e+005	No Peak	N/A
75	MBI0621-02	Unknown	9/23/2021 11:48	092321_gly\Da	1.00	AMPA	0.00e+000	N/A	5.06e+005	No Peak	N/A
76	MBI0621-02	Unknown	9/23/2021 11:48	092321_gly\Da	1.00	AMPA1	0.00e+000	N/A	5.06e+005	No Peak	N/A
77	MBI0621-03	Unknown	9/23/2021 11:55	092321_gly\Da	1.00	Glyphosate	0.00e+000	N/A	4.12e+005	No Peak	N/A
78	MBI0621-03	Unknown	9/23/2021 11:55	092321_gly\Da	1.00	Glyphosate1	0.00e+000	N/A	4.12e+005	No Peak	N/A
79	MBI0621-03	Unknown	9/23/2021 11:55	092321_gly\Da	1.00	AMPA	0.00e+000	N/A	4.12e+005	No Peak	N/A
80	MBI0621-03	Unknown	9/23/2021 11:55	092321_gly\Da	1.00	AMPA1	0.00e+000	N/A	4.12e+005	No Peak	N/A
81	CCV 25/50 pp	Quality Cont	9/23/2021 12:02	092321_gly\Da	1.00	Glyphosate	5.01e+005	25.0	9.90e+005	23.0	92.0
82	CCV 25/50 pp	Quality Cont	9/23/2021 12:02	092321_gly\Da	1.00	Glyphosate1	2.17e+005	25.0	9.90e+005	27.7	111.
83	CCV 25/50 pp	Quality Cont	9/23/2021 12:02	092321_gly\Da	1.00	AMPA	4.62e+005	50.0	9.90e+005	48.2	96.5
84	CCV 25/50 pp	Quality Cont	9/23/2021 12:02	092321_gly\Da	1.00	AMPA1	1.66e+005	50.0	9.90e+005	50.2	100.
85	BBI0660-BLK1	Unknown	9/23/2021 12:08	092321_gly\Da	1.00	Glyphosate	6.72e+003	N/A	9.81e+005	< 0	N/A
86	BBI0660-BLK1	Unknown	9/23/2021 12:08	092321_gly\Da	1.00	Glyphosate1	0.00e+000	N/A	9.81e+005	No Peak	N/A
87	BBI0660-BLK1	Unknown	9/23/2021 12:08	092321_gly\Da	1.00	AMPA	1.05e+004	N/A	9.81e+005	1.12	N/A
88	BBI0660-BLK1	Unknown	9/23/2021 12:08	092321_gly\Da	1.00	AMPA1	3.33e+003	N/A	9.81e+005	1.42	N/A
	BBI0660-BS1	Quality Cont	9/23/2021 12:15	092321_gly\Da	1.00	Glyphosate	8.36e+005	50.0	9.27e+005	42.7	85.5
	BBI0660-BS1	Quality Cont	9/23/2021 12:15	092321_gly\Da	1.00	Glyphosate1	3.00e+005	50.0	9.27e+005	41.9	83.8

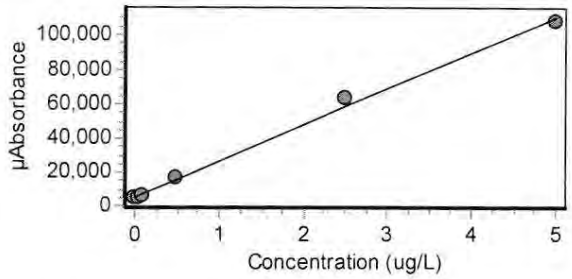
Report Generated By Teledyne CETAC QuickTrace

Analyst: Mercury
Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\09292021-245.wszf
Creation Date: 9/29/2021 11:40:19 AM
Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	09/29/21 12:12:50 pm	0.0000	4698	3.94	-22.01	
Replicates	4918.9	4766.2	4610.5	4494.4							
Standard #1 (0.05 ppb)					STD	09/29/21 12:15:07 pm	0.0500	5180	3.81	-49.25	
Replicates	5405.7	5270.3	5082.0	4960.7							
Standard #2 (0.1 ppb)					STD	09/29/21 12:17:23 pm	0.1000	6181	3.88	-51.97	
Replicates	6452.7	6294.4	6067.7	5910.4							
Standard #3 (0.5 ppb)					STD	09/29/21 12:19:40 pm	0.5000	16108	3.90	16.54	
Replicates	16847.3	16358.4	15823.4	15403.4							
Standard #4 (2.5 ppb)					STD	09/29/21 12:21:57 pm	2.5000	62659	3.97	213.62	
Replicates	65587.7	63629.4	61552.9	59866.9							
Standard #5 (5 ppb)					STD	09/29/21 12:24:15 pm	5.0000	108837	3.88	-106.93	
Replicates	113869.8	110427.4	106865.2	104185.5							

Calibration
Equation: A = 5163.747 + 21187.766C
R2: 0.99693
SEE: 2658.0020
Flags: C



wbi0109-01					UNK	09/29/21 12:46:32 pm	0.0041	5252	266.29		
Replicates	5534.6	5334.2	5141.4	4996.2							
wbi0069-01					UNK	09/29/21 12:48:48 pm	-0.0764	3546	8.49		
Replicates	3717.4	3594.2	3456.2	3416.0							
wbi0069-02					UNK	09/29/21 12:51:05 pm	-0.0561	3975	21.72		
Replicates	3726.3	3801.3	4088.6	4283.5							
wbi0069-03					UNK	09/29/21 12:53:22 pm	-0.0303	4522	29.35		
Replicates	4746.0	4598.7	4422.9	4320.7							
wbi0069-04					UNK	09/29/21 12:55:38 pm	-0.0586	3921	13.49		
Replicates	4122.1	3976.3	3858.3	3728.9							
wbi0064-05					UNK	09/29/21 12:57:55 pm	-0.0520	4061	15.69		
Replicates	4260.9	4124.7	4003.5	3854.7							
wbi0064-06					UNK	09/29/21 01:00:13 pm	-0.0558	3983	14.64		
Replicates	4189.2	4037.7	3921.5	3781.9							

Sample Name			Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
wbi0069-07			UNK	09/29/21 01:02:30 pm	-0.0567	3962	13.24		
Replicates	4145.9	4030.0	3889.7	3782.2					
wbi0069-08			UNK	09/29/21 01:04:47 pm	-0.0764	3546	8.27		
Replicates	3698.0	3601.7	3495.7	3388.0					
wbi0069-09			UNK	09/29/21 01:07:03 pm	-0.0603	3886	12.53		
Replicates	4070.0	3958.0	3810.6	3706.6					
bbi0874-ms1			UNK	09/29/21 01:09:19 pm	2.1890	51538	3.87		
Replicates	53692.6	52198.3	50690.5	49570.3					
bbi0874-msd1			UNK	09/29/21 01:11:35 pm	2.1900	51565	3.94		
Replicates	53737.5	52255.0	50738.6	49530.1					
wbi0069-10			UNK	09/29/21 01:18:25 pm	-0.0670	3745	9.93		
Replicates	3919.7	3789.2	3673.7	3596.9					
wbi0069-11			UNK	09/29/21 01:20:41 pm	-0.0583	3929	11.28		
Replicates	4098.1	3981.6	3849.8	3785.6					
wbi0069-12			UNK	09/29/21 01:22:58 pm	-0.0556	3985	13.79		
Replicates	4184.2	4043.5	3893.0	3818.6					
wbi0069-13			UNK	09/29/21 01:25:15 pm	-0.0951	3148	6.75		
Replicates	3302.7	3209.0	3090.1	2991.6					
wbi0069-14			UNK	09/29/21 01:27:32 pm	-0.1240	2537	3.98		
Replicates	2659.1	2585.7	2476.7	2427.7					
wbi0069-15			UNK	09/29/21 01:29:49 pm	-0.2302	285	0.58		
Replicates	317.3	299.5	254.5	270.3					
bbi0874-ms2			UNK	09/29/21 01:32:06 pm	2.2570	52980	4.32		
Replicates	55383.2	53816.6	52089.6	50630.8					
bbi0874-msd2			UNK	09/29/21 01:34:23 pm	2.2630	53104	3.18		
Replicates	54775.2	53827.1	52537.4	51276.6					
wbi0069-16			UNK	09/29/21 01:36:41 pm	-0.0815	3437	9.57		
Replicates	3641.4	3487.9	3360.5	3258.7					
wbi0069-17			UNK	09/29/21 01:38:57 pm	-0.2076	766	1.06		
Replicates	813.3	796.5	739.8	714.8					
mbi0104-01			UNK	09/29/21 01:41:13 pm	0.0449	6115	24.77		
Replicates	6405.2	6187.6	6009.5	5858.1					
mbi0104-02			UNK	09/29/21 01:43:29 pm	-0.0433	4246	15.90		
Replicates	4432.0	4284.9	4167.3	4099.1					
mbi0268-01			UNK	09/29/21 01:50:18 pm	-0.0961	3127	6.64		
Replicates	3279.7	3192.3	3061.9	2975.4					
wbi0660-01			UNK	09/29/21 01:52:35 pm	-0.0709	3662	10.76		
Replicates	3854.7	3722.9	3586.3	3483.9					
wbi0660-02			UNK	09/29/21 01:54:52 pm	-0.0461	4186	17.18		
Replicates	4408.2	4216.8	4092.5	4026.1					

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
bbi0874-blk1					UNK	09/29/21 01:57:08 pm	-0.1830	1287	1.20		
	Replicates	1331.5	1319.6	1260.9	1234.6						
bbi0874-bs1					UNK	09/29/21 01:59:25 pm	2.2610	53072	4.28		
	Replicates	55524.5	53845.7	52094.7	50822.9						
BLK					UNK	09/29/21 05:14:02 pm	0.1214	7737	12.49		
	Replicates	8090.8	7886.9	7616.1	7352.7						
LCS					UNK	09/29/21 05:16:18 pm	O/R	118634	3.97		O
	Replicates	123818.8	120503.8	116803.8	113411.1						
WBI0997-08@100					UNK	09/29/21 05:18:34 pm	-0.2522	-181	0.81		
	Replicates	-190.1	-150.7	-144.2	-237.7						
WBI0997-08@10					UNK	09/29/21 05:20:50 pm	1.2690	32055	6.44		
	Replicates	34197.8	32618.5	31167.0	30238.1						

Notes

Analyst:

Lamp Current:

High Standard mirco Abs:

Analyte												
Name		Mass	ISTD	Tune Mode	CPS	CPS RSD	Conc.	Units	Conc. RSD	Integ Time	Replicate	QC Measured Val...
51	Pb	208	165	He	657080.29	1.0	48.235	ppb	0.8	0.3000	3	48.2
52	U	238	165	No Gas	503302.47	1.2	34.962	ppb	1.3	0.3000	3	35.0
53	U	238	165	He	366674.37	0.9	34.206	ppb	0.5	0.3000	3	34.2
54	Li	6		No Gas	521180.09	2.2		cps		0.5000	3	65.2
55	Sc	45		No Gas	1977769.0	3.3		cps		0.5000	3	95.5
56	Sc	45		He	212994.07	0.9		cps		0.3000	3	92.5
57	Ge	72		No Gas	997413.75	1.0		cps		0.5000	3	99.3
58	Ge	72		He	265007.97	1.0		cps		0.3000	3	95.6
59	Ge	72		HEHe	101205.15	0.2		cps		0.3000	3	105.1
60	Rh	103		No Gas	2874821.0	0.5		cps		0.5000	3	96.8
61	Rh	103		He	1819818.2	1.8		cps		0.3000	3	100.2
62	Ho	165		No Gas	964562.88	0.3		cps		0.5000	3	106.9
63	Ho	165		He	670361.90	0.5		cps		0.3000	3	106.1

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
151			151_RIN.d	2021-09-13 21:47:19	RINSE		Rinse		1.0000	4
152			152_CCV.	2021-09-13 21:50:38	CCV		CCV		1.0000	1106
153			153_CCB.	2021-09-13 21:53:54	CCB		CCB		1.0000	1101
154			154_RIN.d	2021-09-13 21:57:07	RINSE		Rinse		1.0000	5
155			155_RIN.d	2021-09-13 22:00:24	RINSE		Rinse		1.0000	5
156			156_RIN.d	2021-09-13 22:03:43	RINSE		Rinse		1.0000	5

Analyte												
Name		Mass	ISTD	Tune Mode	CPS	CPS RSD	Conc.	Units	Conc. RSD	Integ Time	Replicate	QC Measured Val...
26	Mo	95	103	No Gas	150724.54	2.5	52.897	ppb	2.7	0.3000	3	52.9
27	Mo	95	103	He	85994.93	1.0	53.493	ppb	2.4	0.3000	3	53.5
28	Mo	98	103	No Gas	243316.33	2.3	52.966	ppb	2.4	0.3000	3	53.0
29	Mo	98	103	He	144243.10	2.1	52.816	ppb	2.0	0.3000	3	52.8
30	Ag	107	103	No Gas	385702.54	1.8	51.365	ppb	2.1	0.3000	3	51.4
31	Ag	107	103	He	249981.92	0.8	51.730	ppb	1.8	0.3000	3	51.7
32	Ag	109	103	No Gas	369768.11	2.3	51.843	ppb	2.5	0.3000	3	51.8
33	Ag	109	103	He	243901.52	0.4	52.515	ppb	1.5	0.3000	3	52.5
34	Cd	111	103	No Gas	78422.22	1.9	51.054	ppb	2.0	1.0000	3	51.1
35	Cd	111	103	He	43532.58	0.8	50.396	ppb	2.4	1.0000	3	50.4
36	Cd	114	103	No Gas	183646.04	1.8	51.396	ppb	1.9	1.0000	3	51.4
37	Cd	114	103	He	108827.65	0.7	50.597	ppb	2.0	1.0000	3	50.6
38	Sn	118	103	No Gas	240958.64	1.5	52.516	ppb	1.7	0.3000	3	52.5
39	Sn	118	103	He	114135.85	0.6	50.540	ppb	1.4	0.3000	3	50.5
40	Sb	123	165	No Gas	317883.74	1.9	66.395	ppb	1.9	0.3000	3	66.4
41	Sb	123	165	He	150739.27	0.6	65.355	ppb	0.1	0.3000	3	65.4
42	Ba	137	165	No Gas	131239.45	3.2	47.911	ppb	3.0	0.3000	3	47.9
43	Ba	137	165	He	61182.81	0.6	47.916	ppb	0.6	0.3000	3	47.9
44	Hg	201	165	No Gas	2198.02	2.2	2.407	ppb	2.5	2.0000	3	2.4
45	Hg	201	165	He	1705.28	0.7	2.433	ppb	0.8	2.0000	3	2.4
46	Hg	202	165	No Gas	5059.34	2.9	2.432	ppb	2.8	2.0000	3	2.4
47	Hg	202	165	He	3846.91	0.3	2.429	ppb	0.2	2.0000	3	2.4
48	Tl	205	165	No Gas	631150.89	3.0	48.666	ppb	3.0	0.3000	3	48.7
49	Tl	205	165	He	489619.34	0.8	49.896	ppb	0.9	0.3000	3	49.9
50	Pb	208	165	No Gas	866540.35	1.4	48.806	ppb	1.4	0.3000	3	48.8

Analyte												
Name		Mass	ISTD	Tune Mode	CPS	CPS RSD	Conc.	Units	Conc. RSD	Integ Time	Replicate	QC Measured Val...
1	Li	7	6	No Gas	296072.53	0.8	47.088	ppb	3.3	0.3000	3	47.1
2	Be	9	6	No Gas	79586.81	1.0	55.050	ppb	3.2	0.3000	3	55.0
3	B	11	45	No Gas	76428.15	1.7	58.221	ppb	6.1	0.3000	3	58.2
4	Al	27	45	No Gas	775233.44	1.1	82.662	ppb	4.4	0.3000	3	82.7
5	Al	27	45	He	17756.66	1.3	94.297	ppb	2.2	0.3000	3	94.3
6	Ti	47	45	He	5556.69	3.0	48.629	ppb	2.7	0.3000	3	48.6
7	V	51	45	He	157435.34	0.4	51.606	ppb	1.1	0.3000	3	51.6
8	Cr	52	45	He	160530.12	0.5	51.405	ppb	0.9	0.3000	3	51.4
9	Cr	53	45	He	23808.09	2.4	58.021	ppb	3.6	0.3000	3	58.0
10	Mn	55	72	No Gas	753268.63	2.5	51.871	ppb	3.3	0.3000	3	51.9
11	Mn	55	72	He	123426.06	0.5	51.161	ppb	1.0	0.3000	3	51.2
12	Fe	56	72	He	472806.63	1.0	157.51	ppb	2.0	0.3000	3	157.5
13	Fe	56	72	HEHe	213853.88	1.4	162.18	ppb	1.4	0.3000	3	162.2
14	Fe	57	72	No Gas	83867.39	0.7		ppb		0.3000	3	
15	Fe	57	72	He	11629.35	1.3	157.68	ppb	2.2	0.3000	3	157.7
16	Co	59	72	He	234089.03	0.5	51.049	ppb	1.3	0.3000	3	51.0
17	Ni	60	72	He	56602.70	1.8	50.625	ppb	1.8	0.3000	3	50.6
18	Ni	62	72	He	8648.30	3.4	50.398	ppb	4.3	0.3000	3	50.4
19	Cu	65	72	He	74910.14	0.3	48.078	ppb	0.8	0.3000	3	48.1
20	Zn	66	72	He	32852.33	0.4	51.885	ppb	1.4	0.3000	3	51.9
21	As	75	72	He	26751.17	1.0	47.772	ppb	1.7	1.0000	3	47.8
22	Se	78	72	He	2089.83	2.1	45.703	ppb	1.4	1.0000	3	45.7
23	Se	82	72	He	920.36	3.1	46.898	ppb	3.0	1.0000	3	46.9
24	Sr	88	72	No Gas	819176.75	2.4	50.868	ppb	2.9	0.3000	3	50.9
25	Sr	88	72	He	169791.33	0.8	49.424	ppb	1.3	0.3000	3	49.4

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
126			126SMPL.	2021-09-13 20:25:57	Sample		WBI00069-02		1.0000	4305
127			127SMPL.	2021-09-13 20:29:12	Sample		WBI00069-03		1.0000	4306
128			128_ARF.d	2021-09-13 20:32:29	AllRef		WBI00069-04		1.0000	4307
129			129_LFM.d	2021-09-13 20:35:41	LFM		BBI0300-MS1		1.0000	4308
130			130LFMD.	2021-09-13 20:38:55	LFMDup		BBI0300-MSD1		1.0000	4309
131			131SMPL.	2021-09-13 20:42:05	Sample		WBI00069-05		1.0000	4310
132			132SMPL.	2021-09-13 20:45:23	Sample		WBI00069-06		1.0000	4311
133			133SMPL.	2021-09-13 20:48:37	Sample		WBI00069-07		1.0000	4312
134			134SMPL.	2021-09-13 20:51:53	Sample		WBI00069-08		1.0000	4401
135			135SMPL.	2021-09-13 20:55:06	Sample		WBI00069-09		1.0000	4402
136			136SMPL.	2021-09-13 20:58:23	Sample		WBI00069-10		1.0000	4403
137			137_RIN.d	2021-09-13 21:01:34	RINSE		Rinse		1.0000	4
138			138_CCV.	2021-09-13 21:04:52	CCV		CCV		1.0000	1106
139			139_CCB.	2021-09-13 21:08:07	CCB		CCB		1.0000	1101
140			140SMPL.	2021-09-13 21:11:21	Sample		WBI00069-11		1.0000	4404
141			141SMPL.	2021-09-13 21:14:38	Sample		WBI00069-12		1.0000	4405
142			142SMPL.	2021-09-13 21:17:54	Sample		WBI00069-13		1.0000	4406
143			143SMPL.	2021-09-13 21:21:08	Sample		WBI00069-14		1.0000	4407
144			144SMPL.	2021-09-13 21:24:22	Sample		WBI00069-15		1.0000	4408
145			145SMPL.	2021-09-13 21:27:38	Sample		WBI00069-16		1.0000	4409
146			146_ARF.d	2021-09-13 21:30:52	AllRef		WBI00069-17		1.0000	4410
147			147_LFM.d	2021-09-13 21:34:09	LFM		BBI0300-MS1		1.0000	4411
148			148LFMD.	2021-09-13 21:37:27	LFMDup		BBI0300-MSD1		1.0000	4412
149			149_Blk.d	2021-09-13 21:40:43	Blank		BBI0300-BLK2		1.0000	4501
150			150_LCS.d	2021-09-13 21:44:03	LCS		BBI0300-BS2		1.0000	4502

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
101	✓		101_LFM.d	2021-09-13 19:04:09	LFM		BBI0058-MS2		1.0000	4112
102			102LFMD.	2021-09-13 19:07:24	LFMDup		BBI0058-MSD2		1.0000	4201
103			103SMPL.	2021-09-13 19:10:37	Sample		WBH1022-06@10		1.0000	4202
104			104SMPL.	2021-09-13 19:13:54	Sample		WBH1022-06@10		1.0000	4203
105			105SMPL.	2021-09-13 19:17:10	Sample		WBH1022-07@10		1.0000	4204
106			106SMPL.	2021-09-13 19:20:26	Sample		WBH0960-04@20		1.0000	4205
107			107SMPL.	2021-09-13 19:23:42	Sample		WBH0960-02@10		1.0000	4206
108			108SMPL.	2021-09-13 19:27:00	Sample		WBH0960-01@10		1.0000	4207
109	✓		109SMPL.	2021-09-13 19:30:16	Sample		WBH0960-03@10		1.0000	4208
110			110_RIN.d	2021-09-13 19:33:32	RINSE		Rinse		1.0000	4
111	✓		111_CCV.	2021-09-13 19:36:48	CCV		CCV		1.0000	1106
112	✓		112_CCB.	2021-09-13 19:40:05	CCB		CCB		1.0000	1101
113			113_RIN.d	2021-09-13 19:43:20	RINSE		Rinse		1.0000	5
114	✓		114SMPL.	2021-09-13 19:46:39	Sample		WBH0960-01@50		1.0000	4209
115	✓		115SMPL.	2021-09-13 19:49:53	Sample		WBH0960-02@50		1.0000	4210
116			116SMPL.	2021-09-13 19:53:12	Sample		WBH0960-03@50		1.0000	4211
117	✓		117SMPL.	2021-09-13 19:56:26	Sample		WBH0960-04@50		1.0000	4212
118			118_RIN.d	2021-09-13 19:59:42	RINSE		Rinse		1.0000	4
119	✓		119_CCV.	2021-09-13 20:02:57	CCV		CCV		1.0000	1106
120	✓		120_CCB.	2021-09-13 20:06:15	CCB		CCB		1.0000	1101
121			121_RIN.d	2021-09-13 20:09:31	RINSE		Rinse		1.0000	5
122	✓		122_Blk.d	2021-09-13 20:12:49	Blank		BBI0300-BLK1		1.0000	4301
123	✓		123LICV.d	2021-09-13 20:16:06	LLICV		BBI0300-MRL1		1.0000	4302
124	✓		124_LCS.d	2021-09-13 20:19:24	LCS		BBI0300-BS1		1.0000	4303
125			125SMPL.	2021-09-13 20:22:40	Sample		WBI00069-01		1.0000	4304

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
76			076SMPL.	2021-09-13 17:42:29	Sample		WBI0034-01		1.0000	3407
77			077SMPL.	2021-09-13 17:45:44	Sample		WBI0034-02		1.0000	3408
78			078SMPL.	2021-09-13 17:49:02	Sample		WBI0034-03		1.0000	3409
79			079SMPL.	2021-09-13 17:52:17	Sample		WBI0034-04		1.0000	3410
80			080SMPL.	2021-09-13 17:55:34	Sample		WBI0109-01		1.0000	3411
81			081SMPL.	2021-09-13 17:58:38	Sample		WBI0307-02		1.0000	3412
82			082SMPL.	2021-09-13 18:01:55	Sample		WBI0307-03		1.0000	3501
83			083SMPL.	2021-09-13 18:05:10	Sample		WBI0307-04		1.0000	3502
84			084_Blk.d	2021-09-13 18:08:28	Blank		BBI0304-BLK2		1.0000	3503
85			085_LCS.d	2021-09-13 18:11:44	LCS		BBI0304-BS2		1.0000	3504
86			086_RIN.d	2021-09-13 18:15:01	RINSE		Rinse		1.0000	4
87			087_CCV.	2021-09-13 18:18:17	CCV		CCV		1.0000	1106
88			088_CCB.	2021-09-13 18:21:34	CCB		CCB		1.0000	1101
89			089_RIN.d	2021-09-13 18:24:50	RINSE		Rinse		1.0000	5
90			090_Blk.d	2021-09-13 18:28:09	Blank		BLANK1		1.0000	4101
91			091_Blk.d	2021-09-13 18:31:25	Blank		BLANK2		1.0000	4102
92			092_Blk.d	2021-09-13 18:34:44	Blank		BLANK3		1.0000	4103
93			093_Blk.d	2021-09-13 18:38:00	Blank		BLANK4		1.0000	4104
94			094_Blk.d	2021-09-13 18:41:19	Blank		BLANK6		1.0000	4105
95			095_Blk.d	2021-09-13 18:44:35	Blank		BLANK7		1.0000	4106
96			096_Blk.d	2021-09-13 18:47:53	Blank		BLANK8		1.0000	4107
97			097_Blk.d	2021-09-13 18:51:08	Blank		BBI0058-BLK1		1.0000	4108
98			098LICV.d	2021-09-13 18:54:27	LLICV		BBI0058-MRL1		1.0000	4109
99			099_LCS.d	2021-09-13 18:57:43	LCS		BBI0058-BS1		1.0000	4110
100			100_ARF.d	2021-09-13 19:00:55	AllRef		WBH1022-08		1.0000	4111

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
51			051_RIN.d	2021-09-13 16:20:48	RINSE		Rinse		1.0000	4
52			052_CCV.	2021-09-13 16:24:06	CCV		CCV		1.0000	1106
53			053_CCB.	2021-09-13 16:27:20	CCB		CCB		1.0000	1101
54			054_RIN.d	2021-09-13 16:30:37	RINSE		Rinse		1.0000	5
55			055_Blk.d	2021-09-13 16:33:53	Blank		BBI0301-BLK1		1.0000	3302
56			056LICV.d	2021-09-13 16:37:11	LLICV		BBI0301-MRL1		1.0000	3303
57			057_LCS.d	2021-09-13 16:40:26	LCS		BBI0301-BS1		1.0000	3304
58			058_ARF.d	2021-09-13 16:43:43	AllRef		WBH1180-01		1.0000	3305
59			059_LFM.d	2021-09-13 16:46:57	LFM		BBI0301-MS1		1.0000	3306
60			060LFMD.	2021-09-13 16:50:13	LFMDup		BBI0301-MSD1		1.0000	3307
61			061SMPL.	2021-09-13 16:53:27	Sample		WBH1180-02		1.0000	3308
62			062SMPL.	2021-09-13 16:56:41	Sample		WBH1180-03		1.0000	3309
63			063_Blk.d	2021-09-13 16:59:55	Blank		BBI0301-BLK2		1.0000	3310
64			064_LCS.d	2021-09-13 17:03:13	LCS		BBI0301-BS2		1.0000	3311
65			065_RIN.d	2021-09-13 17:06:27	RINSE		Rinse		1.0000	4
66			066_CCV.	2021-09-13 17:09:44	CCV		CCV		1.0000	1106
67			067_CCB.	2021-09-13 17:12:59	CCB		CCB		1.0000	1101
68			068_RIN.d	2021-09-13 17:16:17	RINSE		Rinse		1.0000	5
69			069_Blk.d	2021-09-13 17:19:32	Blank		BBI0304-BLK1		1.0000	3312
70			070LICV.d	2021-09-13 17:22:51	LLICV		BBI0304-MRL1		1.0000	3401
71			071_LCS.d	2021-09-13 17:26:07	LCS		BBI0304-BS1		1.0000	3402
72			072_ARF.d	2021-09-13 17:29:25	AllRef		WBH1010-2		1.0000	3403
73			073_LFM.d	2021-09-13 17:32:41	LFM		BBI0304-MS1		1.0000	3404
74			074LFMD.	2021-09-13 17:35:58	LFMDup		BBI0304 -MSD1		1.0000	3405
75			075SMPL.	2021-09-13 17:39:12	Sample		WBH1166-01		1.0000	3406

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
26			026SMPL.	2021-09-13 14:58:43	Sample		WBI0038-01		1.0000	3107
27			027SMPL.	2021-09-13 15:01:51	Sample		WBI0097-01		1.0000	3108
28			028SMPL.	2021-09-13 15:05:05	Sample		WBI0301-01		1.0000	3109
29			029_Blk.d	2021-09-13 15:08:17	Blank		BBI0301-BLK2		1.0000	3110
30			030_LCS.d	2021-09-13 15:11:34	LCS		BBI0301-BS2		1.0000	3111
31			031_RIN.d	2021-09-13 15:14:47	RINSE		Rinse		1.0000	4
32			032_CCV.	2021-09-13 15:18:04	CCV		CCV		1.0000	1106
33			033_CCB.	2021-09-13 15:21:17	CCB		CCB		1.0000	1101
34			034_RIN.d	2021-09-13 15:24:34	RINSE		Rinse		1.0000	5
35			035_Blk.d	2021-09-13 15:27:50	Blank		BBI0363-BLK2		1.0000	3112
36			036LICV.d	2021-09-13 15:31:07	LLICV		BBI0363-MRL1		1.0000	3201
37			037_LCS.d	2021-09-13 15:34:22	LCS		BBI0363-BS2		1.0000	3202
38			038_ARF.d	2021-09-13 15:37:36	AllRef		WBI0045-01		1.0000	3203
39			039_LFM.d	2021-09-13 15:40:50	LFM		BBI0363-MS1		1.0000	3204
40			040LFMD.	2021-09-13 15:44:06	LFMDup		BBI0363-MSD1		1.0000	3205
41			041SMPL.	2021-09-13 15:47:19	Sample		WBI0244-01		1.0000	3206
42			042SMPL.	2021-09-13 15:50:36	Sample		WBI0245-01		1.0000	3207
43			043SMPL.	2021-09-13 15:53:50	Sample		WBI0333-01		1.0000	3208
44			044SMPL.	2021-09-13 15:57:08	Sample		WBI0336-01		1.0000	3209
45			045SMPL.	2021-09-13 16:00:21	Sample		WBI0338-01		1.0000	3210
46			046SMPL.	2021-09-13 16:03:38	Sample		WBI0359-01		1.0000	3211
47			047_Blk.d	2021-09-13 16:06:52	Blank		BBI0363-BLK1		1.0000	3212
48			048_LCS.d	2021-09-13 16:10:11	LCS		BBI0363-BS1		1.0000	3301
49			049_Blk.d	2021-09-13 16:13:26	Blank		BBI0301-BLK2		1.0000	3511
50			050SMPL.	2021-09-13 16:17:34	Sample		WBI0301-01@10		1.0000	3512

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
1		☐	001CALB.	2021-09-13 13:20:49	CalBlk	1	Blank		1.0000	1101
2		☐	002CALB.	2021-09-13 13:24:27	CalBlk	1	Blank		1.0000	1101
3		☐	003CALB.	2021-09-13 13:28:05	CalBlk	1	Blank		1.0000	1101
4		☐	004CALS.	2021-09-13 13:31:41	CalStd	2	1 ppb cal		1.0000	1103
5		☐	005CALS.	2021-09-13 13:35:19	CalStd	3	5 ppb cal		1.0000	1104
6		☐	006CALS.	2021-09-13 13:38:56	CalStd	4	25 ppb cal		1.0000	1105
7		☐	007CALS.	2021-09-13 13:42:34	CalStd	5	50 ppb cal		1.0000	1106
8		☐	008CALS.	2021-09-13 13:46:08	CalStd	6	100 ppb cal		1.0000	1107
9		☐	009_RIN.d	2021-09-13 13:55:49	RINSE		Rinse		1.0000	4
10	✓	☐	010_ICB.d	2021-09-13 13:59:03	ICB		ICB		1.0000	1101
11	✓	☐	011_ICV.d	2021-09-13 14:02:19	ICV		ICV- 40ppb		1.0000	2101
12		☐	012_RIN.d	2021-09-13 14:12:13	RINSE		Rinse		1.0000	4
13	✓	☐	013_ICV.d	2021-09-13 14:15:27	ICV		ICV- 40ppb		1.0000	2101
14	✓	☐	014_LDR.d	2021-09-13 14:20:43	LDR		Daily LDR- 500pp		1.0000	2102
15		☐	015_RIN.d	2021-09-13 14:23:23	RINSE		Rinse		1.0000	4
16		☐	016_RIN.d	2021-09-13 14:26:40	RINSE		Rinse		1.0000	4
17		☐	017_RIN.d	2021-09-13 14:29:54	RINSE		Rinse		1.0000	4
18		☐	018_RIN.d	2021-09-13 14:33:12	RINSE		Rinse		1.0000	4
19		☐	019_RIN.d	2021-09-13 14:36:26	RINSE		Rinse		1.0000	4
20		☑	020_Blk.d	2021-09-13 14:39:16	Blank		BBI0301-BLK1		1.0000	3101
21	✓	☐	021LICV.d	2021-09-13 14:42:29	LLICV		BBI0301-MRL1		1.0000	3102
22	✓	☐	022_LCS.d	2021-09-13 14:45:47	LCS		BBI0301-BS1		1.0000	3103
23		☐	023_ARF.d	2021-09-13 14:49:01	AllRef		WBI0036-01		1.0000	3104
24	✓	☐	024_LFM.d	2021-09-13 14:52:16	LFM		BBI0301-MS1		1.0000	3105
25		☐	025LFMD.	2021-09-13 14:55:29	LFMDup		BBI0301-MSD1		1.0000	3106

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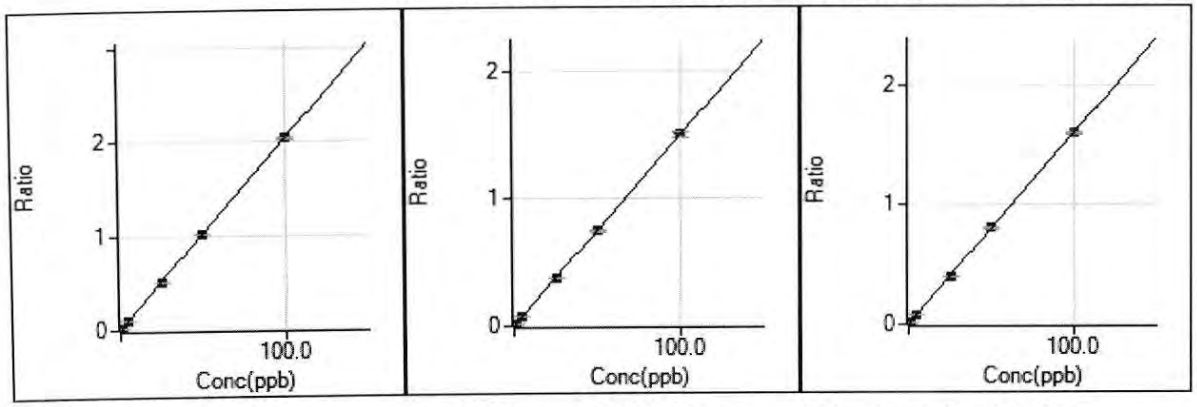
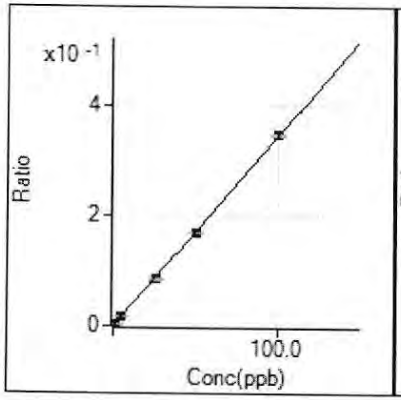
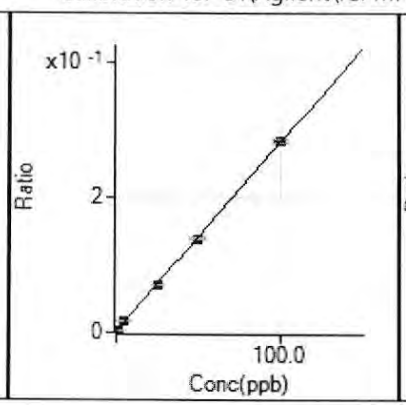


208 Pb [He] / ISTD: 165 Ho		238 U [No Gas] / ISTD: 165 Ho		238 U [He] / ISTD: 165 Ho	
y = 2.032E-2 x + 2.308E-4		y = 1.492E-2 x + 2.091E-5		y = 1.596E-2 x + 9.429E-4	
R	1.0000	R	1.0000	R	1.0000
DL	0.01243	DL	0.001511	DL	0.001505
BEC	0.01136	BEC	0.001401	BEC	0.05907

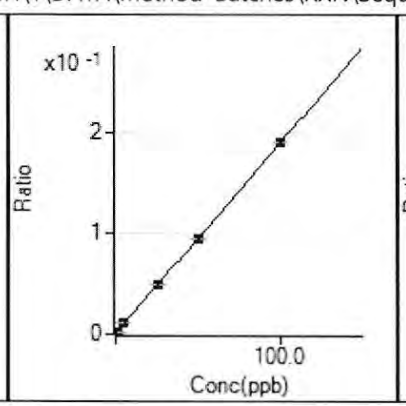
Calibration for D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\09132021.b\150_LCS.d



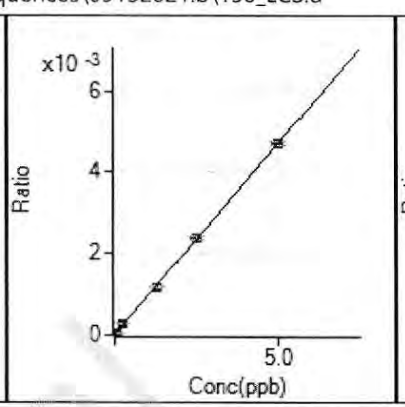
123 Sb [He] / ISTD: 165 Ho
y = 3.438E-3 x + 1.989E-4
R 0.9999
DL 0.03111
BEC 0.05787



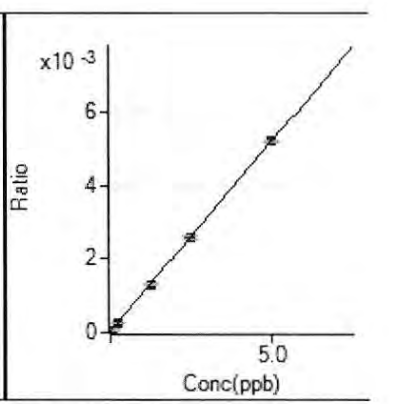
137 Ba [No Gas] / ISTD: 165 Ho
y = 2.815E-3 x + 1.206E-3
R 0.9999
DL 0.06154
BEC 0.4285



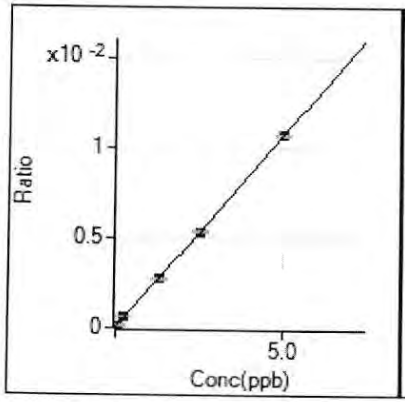
137 Ba [He] / ISTD: 165 Ho
y = 1.888E-3 x + 8.251E-4
R 1.0000
DL 0.1006
BEC 0.4371



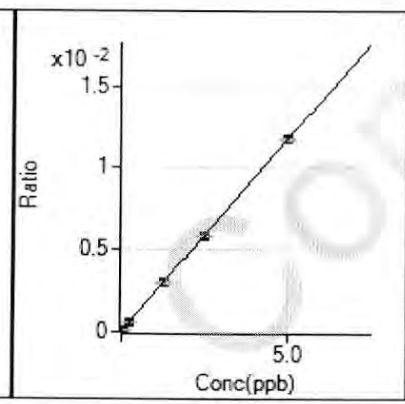
201 Hg [No Gas] / ISTD: 165 Ho
y = 9.397E-4 x + 1.734E-5
R 1.0000
DL 0.01659
BEC 0.01845



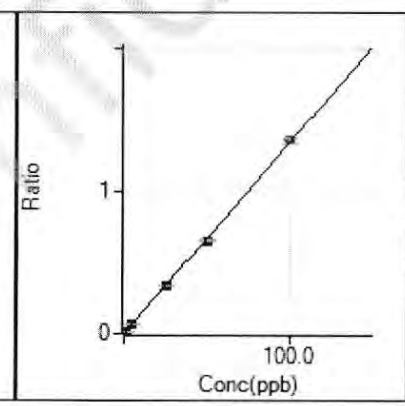
201 Hg [He] / ISTD: 165 Ho
y = 1.039E-3 x + 1.663E-5
R 1.0000
DL 0.008332
BEC 0.01601



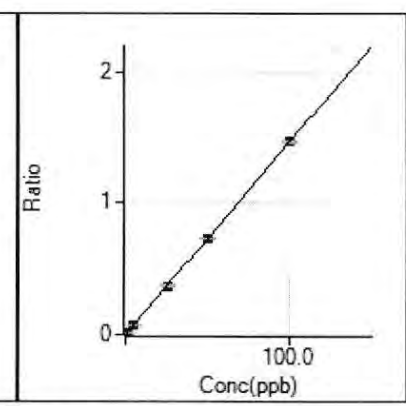
202 Hg [No Gas] / ISTD: 165 Ho
y = 2.140E-3 x + 4.027E-5
R 1.0000
DL 0.009869
BEC 0.01882



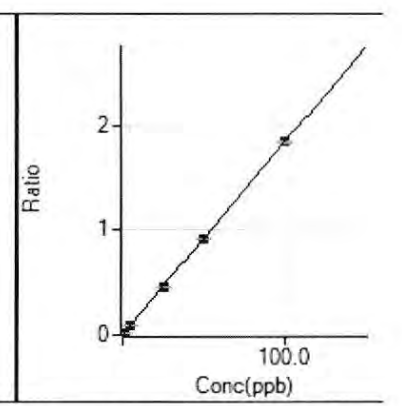
202 Hg [He] / ISTD: 165 Ho
y = 2.345E-3 x + 4.105E-5
R 1.0000
DL 0.007697
BEC 0.0175



205 Tl [No Gas] / ISTD: 165 Ho
y = 1.344E-2 x + 1.601E-4
R 0.9998
DL 0.003921
BEC 0.01191

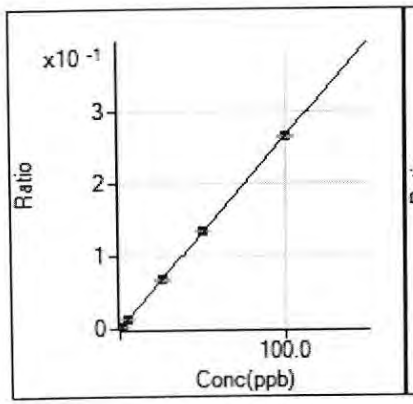


205 Tl [He] / ISTD: 165 Ho
y = 1.463E-2 x + 1.741E-4
R 1.0000
DL 0.009876
BEC 0.0119



208 Pb [No Gas] / ISTD: 165 Ho
y = 1.840E-2 x + 2.415E-4
R 1.0000
DL 0.004838
BEC 0.01313

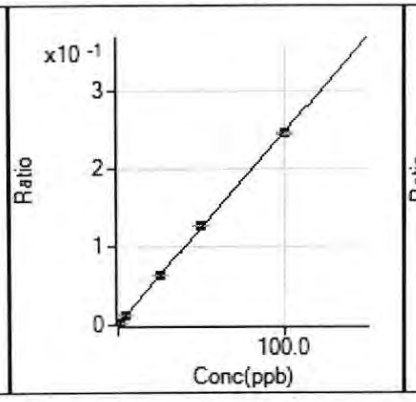
Calibration for D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\09132021.b\150_LCS.d



107 Ag [He] / ISTD: 103 Rh

y = 2.656E-3 x + 1.349E-5

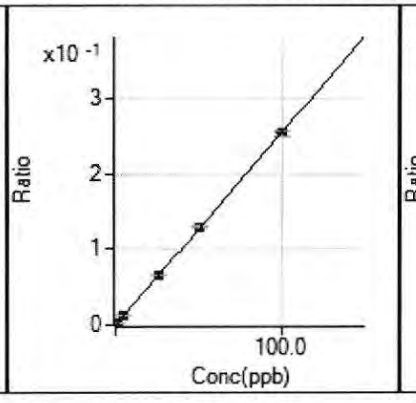
R	1.0000
DL	0.006812
BEC	0.00508



109 Ag [No Gas] / ISTD: 103 Rh

y = 2.481E-3 x + 8.224E-6

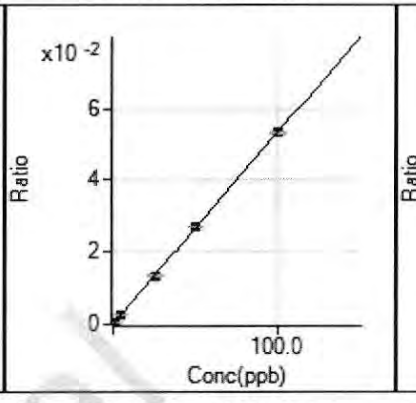
R	0.9999
DL	0.0006337
BEC	0.003315



109 Ag [He] / ISTD: 103 Rh

y = 2.552E-3 x + 6.736E-6

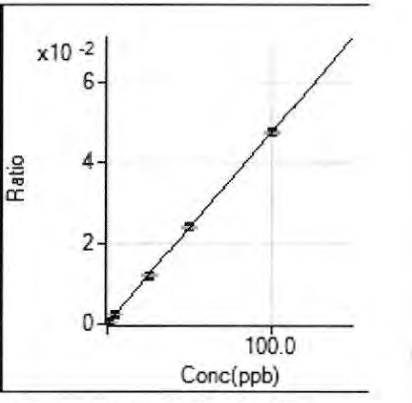
R	1.0000
DL	0.001304
BEC	0.002639



111 Cd [No Gas] / ISTD: 103 Rh

y = 5.344E-4 x - 1.481E-6

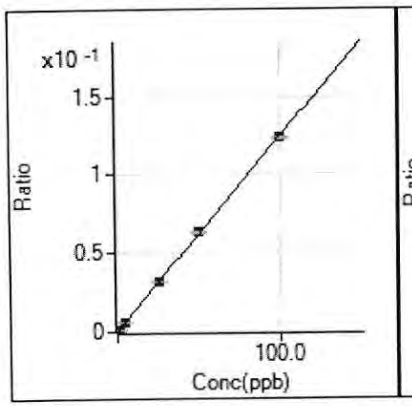
R	1.0000
DL	0.02096
BEC	-0.002772



111 Cd [He] / ISTD: 103 Rh

y = 4.748E-4 x + 1.652E-6

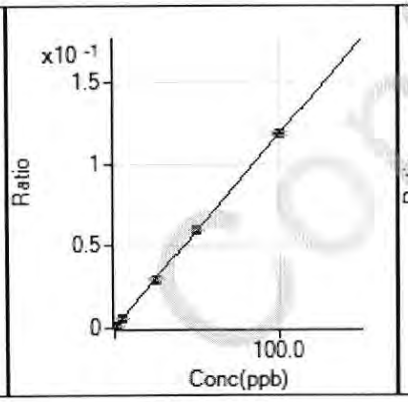
R	1.0000
DL	9.815E-05
BEC	0.00348



114 Cd [No Gas] / ISTD: 103 Rh

y = 1.243E-3 x + 3.896E-7

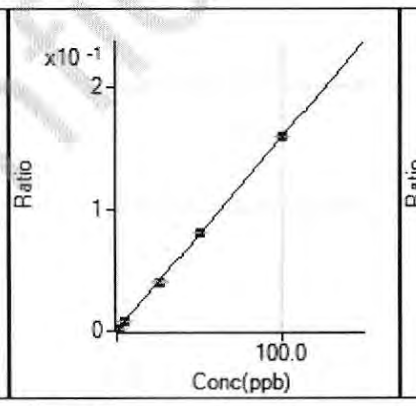
R	0.9999
DL	0.02219
BEC	0.0003135



114 Cd [He] / ISTD: 103 Rh

y = 1.182E-3 x + 1.266E-5

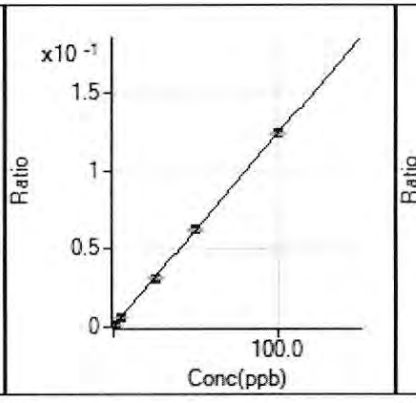
R	1.0000
DL	0.009017
BEC	0.01071



118 Sn [No Gas] / ISTD: 103 Rh

y = 1.589E-3 x + 3.927E-4

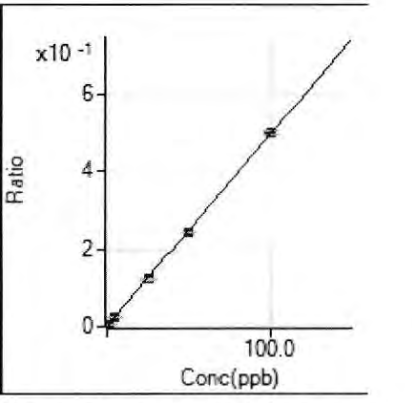
R	1.0000
DL	0.02367
BEC	0.2472



118 Sn [He] / ISTD: 103 Rh

y = 1.235E-3 x + 3.315E-4

R	1.0000
DL	0.06612
BEC	0.2685

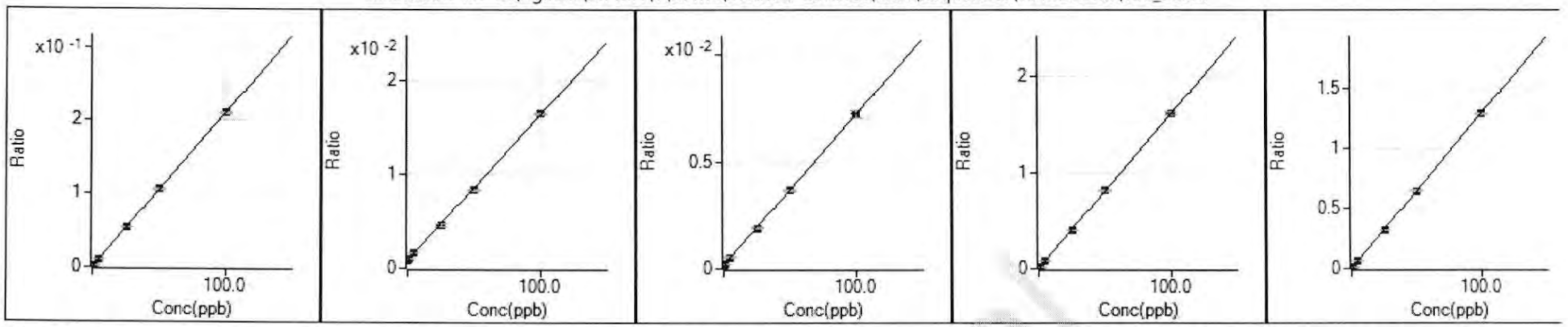


123 Sb [No Gas] / ISTD: 165 Ho

y = 4.959E-3 x + 3.314E-4

R	0.9999
DL	0.01161
BEC	0.06683

Calibration for D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\09132021.b\150_LCS.d



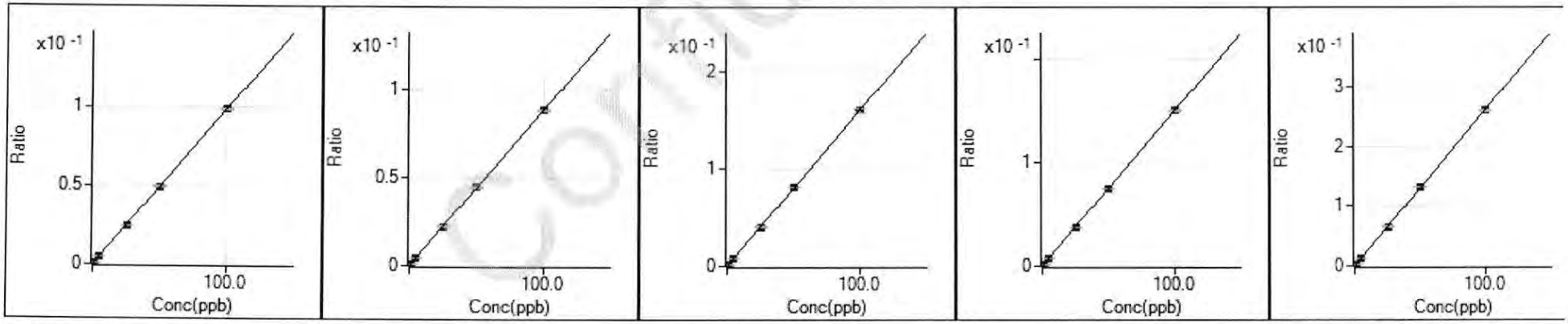
75 As [He] / ISTD: 72 Ge
y = 2.106E-3 x + 3.548E-4
R 1.0000
DL 0.04026
BEC 0.1685

78 Se [He] / ISTD: 72 Ge
y = 1.549E-4 x + 8.073E-4
R 0.9998
DL 0.4791
BEC 5.213

82 Se [He] / ISTD: 72 Ge
y = 7.062E-5 x + 1.612E-4
R 1.0000
DL 0.4756
BEC 2.283

88 Sr [No Gas] / ISTD: 72 Ge
y = 1.614E-2 x + 6.104E-4
R 1.0000
DL 0.0123
BEC 0.03783

88 Sr [He] / ISTD: 72 Ge
y = 1.295E-2 x + 4.650E-4
R 1.0000
DL 0.007637
BEC 0.0359



95 Mo [No Gas] / ISTD: 103 Rh
y = 9.908E-4 x + 2.054E-5
R 1.0000
DL 0.02328
BEC 0.02073

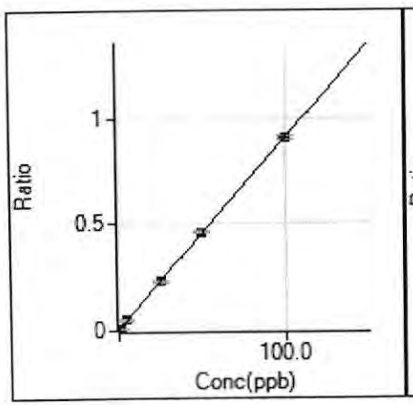
95 Mo [He] / ISTD: 103 Rh
y = 8.832E-4 x + 2.387E-5
R 1.0000
DL 0.01082
BEC 0.02702

98 Mo [No Gas] / ISTD: 103 Rh
y = 1.597E-3 x + 3.002E-5
R 1.0000
DL 0.006526
BEC 0.01879

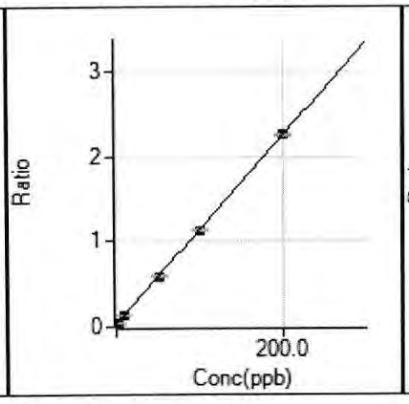
98 Mo [He] / ISTD: 103 Rh
y = 1.500E-3 x + 3.058E-5
R 1.0000
DL 0.008962
BEC 0.02038

107 Ag [No Gas] / ISTD: 103 Rh
y = 2.612E-3 x + 1.054E-5
R 1.0000
DL 0.00663
BEC 0.004036

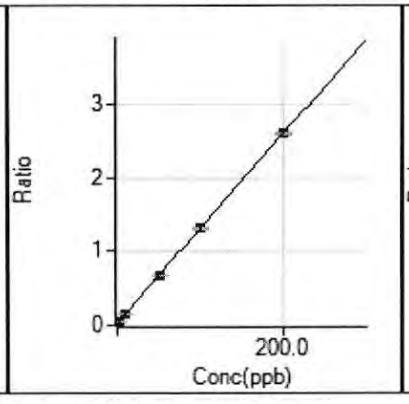
Calibration for D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\09132021.b\150_LCS.d



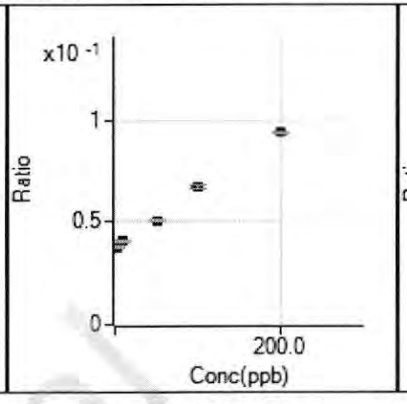
55 Mn [He] / ISTD: 72 Ge
y = 9.043E-3 x + 3.117E-3
R 1.0000
DL 0.06718
BEC 0.3447



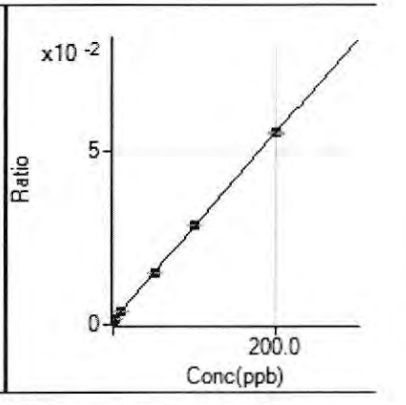
56 Fe [He] / ISTD: 72 Ge
y = 1.112E-2 x + 3.310E-2
R 1.0000
DL 0.2719
BEC 2.978



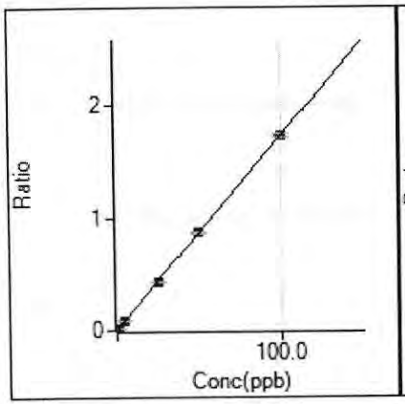
56 Fe [HEHe] / ISTD: 72 Ge
y = 1.286E-2 x + 2.768E-2
R 1.0000
DL 0.2783
BEC 2.153



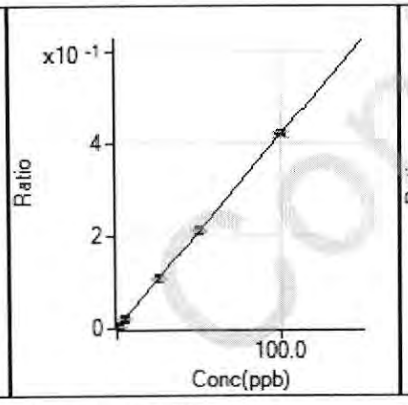
57 Fe [No Gas] / ISTD: 72 Ge
Excluded
R
DL
BEC



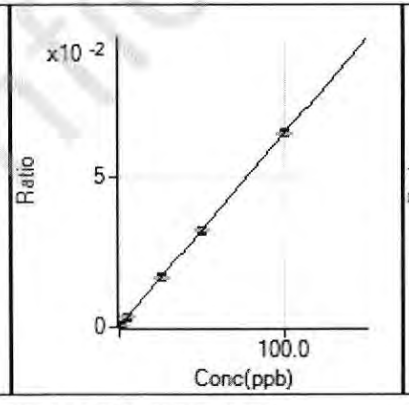
57 Fe [He] / ISTD: 72 Ge
y = 2.706E-4 x + 1.222E-3
R 1.0000
DL 2.46
BEC 4.515



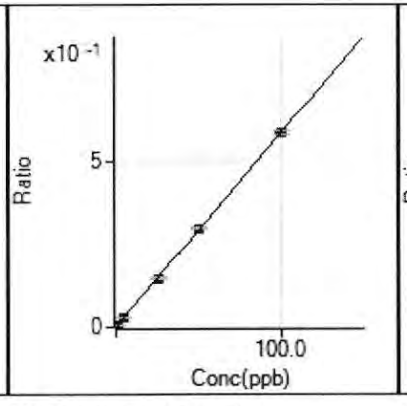
59 Co [He] / ISTD: 72 Ge
y = 1.730E-2 x + 5.209E-5
R 1.0000
DL 0.006015
BEC 0.003011



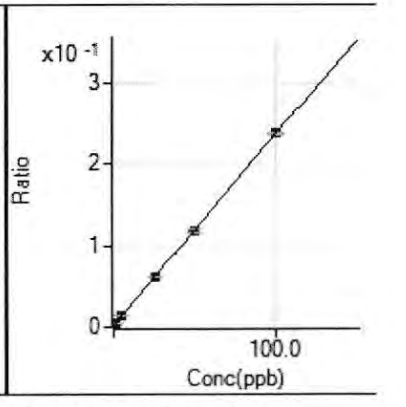
60 Ni [He] / ISTD: 72 Ge
y = 4.192E-3 x + 1.352E-3
R 1.0000
DL 0.02793
BEC 0.3224



62 Ni [He] / ISTD: 72 Ge
y = 6.429E-4 x + 2.402E-4
R 1.0000
DL 0.2448
BEC 0.3737

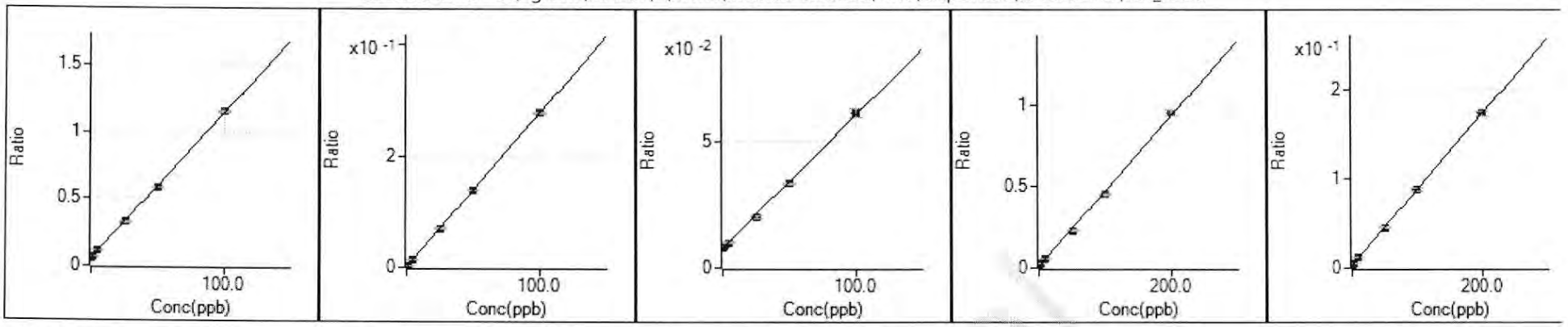


65 Cu [He] / ISTD: 72 Ge
y = 5.849E-3 x + 1.478E-3
R 0.9999
DL 0.01352
BEC 0.2527



66 Zn [He] / ISTD: 72 Ge
y = 2.356E-3 x + 1.736E-3
R 1.0000
DL 0.09312
BEC 0.7368

Calibration for D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\09132021.b\150_LCS.d



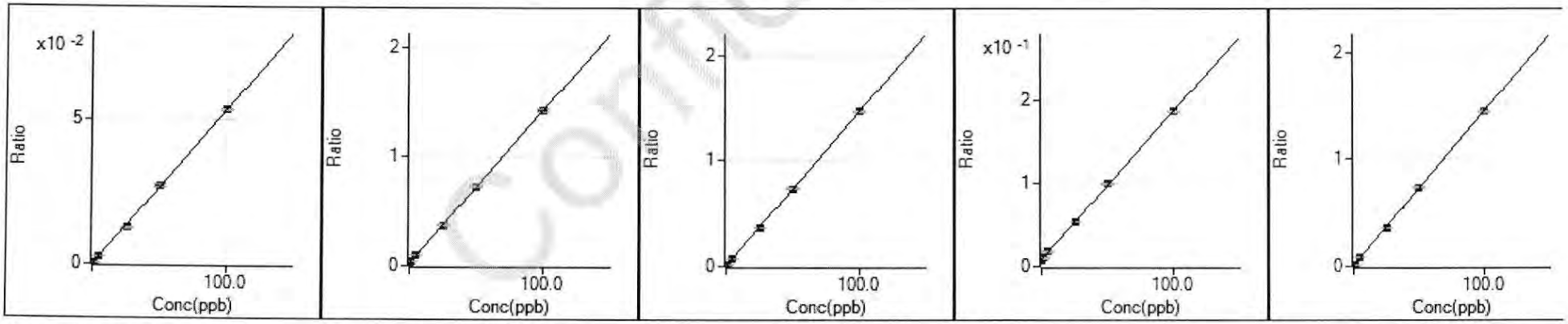
7 Li [No Gas] / ISTD: 6 Li
y = 1.082E-2 x + 5.897E-2
R 0.9998
DL 0.1548
BEC 5.451

9 Be [No Gas] / ISTD: 6 Li
y = 2.774E-3 x + 4.451E-5
R 1.0000
DL 0.002841
BEC 0.01604

11 B [No Gas] / ISTD: 45 Sc
y = 5.267E-4 x + 8.019E-3
R 0.9996
DL 1.833
BEC 15.23

27 Al [No Gas] / ISTD: 45 Sc
y = 4.613E-3 x + 1.103E-2
R 0.9994
DL 0.1181
BEC 2.391

27 Al [He] / ISTD: 45 Sc
y = 8.560E-4 x + 2.655E-3
R 1.0000
DL 1.124
BEC 3.102



47 Ti [He] / ISTD: 45 Sc
y = 5.362E-4 x + 1.454E-5
R 0.9998
DL 0.08197
BEC 0.02711

51 V [He] / ISTD: 45 Sc
y = 1.399E-2 x + 1.701E-2
R 1.0000
DL 0.1309
BEC 1.215

52 Cr [He] / ISTD: 45 Sc
y = 1.463E-2 x + 1.739E-3
R 1.0000
DL 0.04268
BEC 0.1189

53 Cr [He] / ISTD: 45 Sc
y = 1.783E-3 x + 8.350E-3
R 0.9999
DL 0.1402
BEC 4.683

55 Mn [No Gas] / ISTD: 72 Ge
y = 1.442E-2 x + 7.146E-3
R 0.9999
DL 0.03017
BEC 0.4954

Sample Report

Sample Name	Rinse
File Name	070_RIN.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10212021-2.b
Acq Time	2021-10-21 16:00:05
Sample Type	RINSE
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Fail
Operator	TRC

QC Analyte Table

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

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	4664241.98	3.1	89.2	5227399.84333333
Sc	45	No Gas	10219200.33	2.5	84.0	12163088
Sc	45	He	934895.93	1.6	81.9	1142162.87333333
Ge	72	No Gas	3556056.83	0.4	66.2	5371321.66666667
Ge	72	He	844405.39	0.3	67.8	1245441.33666667
Ge	72	HEHe	297158.03	1.6	63.2	470212.656666667
Rh	103	No Gas	2755413.00	5.5	17.2	15985285
Rh	103	He	1339144.74	3.4	14.4	9297170.74
Ho	165	No Gas	151541.38	1.1	3.4	4508338.66666667
Ho	165	He	58216.25	0.4	2.0	2922074.60666667

TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Anatek Labs. Inc. Spokane

Batch ID: BBI0121 Date: 9/6/21 Time: 1500 Initals: AR4

QC REQUIREMENTS:	Blank <1ppm, LFB %Rec= 90-110%, MS/MSD %Rec= 80-120% Run a blank and lcs before and after every 20 samples, plus dup and ms/msd after 20 samples.						
TSS Reagents	**Std. #**	**Amount Spiked**	**Balance**	**Balance**	**Temp**	**Filters**	**Thermometer**
100ppm Cellulose TSS Soln.	2102552	100 ppm	100 PPM	Bal-06	105	2100672	00627

Comments:

Sample Number	Sample ID	Dish ID	Filter Wt #1 (g)	Filter Wt #2 (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
BBI0121-BLK1	Blank	789	0.1137	10	100	0.1137	0.1139	1	0	0	9-21-21
BBI0121-BLK2	Blank 629	~~788~~	~~0.1148~~ 0.1188		100	0.1198	0.1193	1	0	0	KHS
BBI0121-BS1	LCS	788	0.1148		100	0.1251	0.1252	1	103	103	
BBI0121-BSD1	LCS Dup	630	0.1190		100	0.1300	0.1300	1	110	110	
BBI0121-DUP1	Duplicate WBI0069-01	787	0.1146		500	0.1174	0.1175	0.2	28	5.6	
WBI0069-01	D-4	786	0.1157		500	0.1183	0.1181		30	6	
WBI0069-02	D-5	785	0.1147		500	0.1203	0.1203		56	11.2	
WBI0069-03	WW-2	784	0.1153		500	0.1333	0.1338		180	36	
WBI0069-~~05~~ 07	~~E-1~~ D-6	783	0.1139		100	0.1370	0.1373	1	231	231	
WBI0069-~~07~~ 05	~~D-6~~ E-1	782	0.1142		500	0.1256	0.1258	0.2	114	22.8	
WBI0069-09	DW-2	781	0.1149		500	0.1201	0.1201		52	10.4	
WBI0069-10	D-3	780	0.1148		500	0.1206	0.1208		58	11.6	
WBI0069-11	DW-3	779	0.1146		500	0.1197	0.1202		51	10.2	
WBI0069-12	D-2	778	0.1147		500	0.1215	0.1218		68	13.60	
WBI0069-13	D-8	777	0.1143		500	0.1203	0.1200		57	11.40	
WBI0069-14	U-2/WW-5	776	0.1137		300	0.1259	0.1250	0.333	122	40.67	
WBI0069-15	U-3/WW-4	775	0.1152		500	0.1252	0.1255	0.2	100	20.0	
WBI0069-16	DW-1/WW-3	774	0.1133		500	0.1321	0.1324	0.2	188	37.6	
BBI0121-MS1	Matrix Spike WBI0069-17	773	0.1137		50/50	0.1178	0.1179	2	41	82	
BBI0121-MSD1	Matrix Spike Dup WBI0069-17	627	0.1196		50/50	0.1257	0.1257	2	61	122	
WBI0069-17	Blank	625	0.1191		500	0.1198	0.1195	0.2	4	0.8	

BBI0121

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:	09/01/2021
PAGE:	1 of 1

AECOS REPORT OF RESULTS

SAMPLE TYPE: stormwater
DATE SAMPLED: 08/30/2021
TEMP. CONTROL: 14.0, 21.3, 11.0 °C
DATE/TIME ANALYZED: 08/30/2021 @1617, 1624, 1629

***AECOS* LOG No.:** 43384
DATE/TIME RECEIVED: 08/30/2021 @1539
SAMPLER: B. Berridge
MATRIX: water
ANALYST: R. Knapstein, J. Withrow

	ANALYTE (UNITS)	Enterococcus (MPN/100ml)	*Dilution Factor (10 ml / 100 ml)*	*Number of large positive wells*	*Number of small positive wells*
	METHOD →	ASTM D650399	---	---	---
SAMPLE ID ⇩	TIME SAMPLED ⇩				
D-4	0844	420	10	25	6
D-5	0905	290	*10*	*21*	*2*
WW-2	0923	31	*10*	*3*	*0*
WW-3	0946	140	*10*	*11*	*2*
D-6	1033	1000	*10*	*42*	*8*
D-7	1008	1100	*10*	*43*	*9*
E-2	0955	210	*10*	*13*	*5*
DW-2	0850	430	*10*	*26*	*5*
D-3	0905	340	*10*	*20*	*7*
DW-3	0930	300	*10*	*21*	*3*
D-2	0940	320	*10*	*21*	*4*
U-2 / WW-5	0935	4100	*10*	*49*	*23*
U-3 / WW-4	0900	1900	*10*	*46*	*18*
D-8	1025	610	*10*	*32*	*7*
E-1	0930	20	*10*	*2*	*0*
DW-1 / WW-1	1015	250	*10*	*19*	*1*

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 [043384]

CLIENT: Cardno 737 Bishop Street Suite 3050
ADDRESS: Honolulu HI 96817

CONTACT: Ben Berridge
PHONE No.: ☎ 808 476 0067
Purchase Order No.:

☐ RUSH
☐ SEE REVERSE

SPECIAL INSTRUCTIONS

	☑	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	SAMPLE TYPE	CONTAINER(S)		REQUESTED ANALYSES	PRESERVATION
1		D-4	8-30-21	08:44	W	1	Idexx	enterococci	
2		D-5		09:05					
3		WW-2		09:23					
4		WW-3		09:46					
5		D-6		10:33					
6		D-7		10:08					
7		EQ		09:55					
8		DW-2		08:50					
9		D-3		09:05					
10		DW-3		09:30					

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 (PRINT NAME) DATE 8/30/21 20 21
RELINQUISHED: (SIGNATURE) DATE 8/30 TIME 15:35 20 21

RECEIVED BY: (SIGNATURE) DATE 20___ TIME
RELINQUISHED: (SIGNATURE OR INITIALS) DATE 20___ TIME

RECEIVED FOR LABORATORY: (SIGNATURE) DATE 8/30 20 21 TIME 1539
RELINQUISHED: (SIGNATURE OR INITIALS) DATE 20___ TIME

COMMENTS:

PRECAUTIONS:
from D-4 bottle after pulled 10ml sample for analysis
T(S) = 14.00°C
T(F) = 21.3°C
↳ from D-6 bottle after pulled 10ml sample for analysis

DISPOSAL:
D-2 Temp = 11.0°C (after 10ml removed for analysis).
RETURN SAMPLE TO CLIENT ☐

USE (BLACK) INK

* most bottles were overfilled

Samples were received on ice

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 [43384]

CLIENT: Front

ADDRESS:

CONTACT: Front

PHONE No.: ☎

Purchase Order No.:

☐ RUSH
☐ SEE REVERSE

SPECIAL INSTRUCTIONS

	☑	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	SAMPLE TYPE	CONTAINER(S)		REQUESTED ANALYSES	PRESERVATION
11		D-2	8/30/21	09:40	water	1	idexx	enterrococci	
12		U-2/WW-5		09:35					
13	*	U-3/WW-4		09:00					
14		D-8		10:25					
15		E-1		09:30					
16	*	DW-1/WW-1	✓	10:15	✓	✓	✓	✓	
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 8/30/2021
PRINT NAME Ben Berridge
RELINQUISHED: DATE 8/30/2021
SIGNATURE TIME 15:35

RECEIVED BY: DATE 20___
SIGNATURE TIME
RELINQUISHED: DATE 20___
SIGNATURE OR INITIALS TIME

RECEIVED FOR LABORATORY: DATE 8/30/2021
SIGNATURE TIME 1539
RELINQUISHED: DATE 20___
SIGNATURE OR INITIALS TIME

COMMENTS:

PRECAUTIONS:

DISPOSAL:

* U-3/WW-4 labeled as U3/WW1 on bottle
* DW-1/WW-1 labeled as DW-1/WW-3 on bottle
per Ben. COC is correct

RETURN SAMPLE TO CLIENT ☐

USE (BLACK) INK