284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Cover Page

Order ID : P4397

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P4397-01	WB-301-TOP
P4397-02	WB-301-BOT
P4397-04	WB-301-SW
P4397-05	TB-10102024
P4397-06	WB-301-BOT

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/29/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4397
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/11/2024.
2 Water samples were received on 10/11/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for WB-301-BOT [2,4-DCAA(1) - 27%, 2,4-DCAA(2) - 22%], WB-301-BOTMS [2,4-DCAA(1) - 28%, 2,4-DCAA(2) - 23%], WB-301-BOTMSD [2,4-DCAA(1) - 28%, 2 and4-DCAA(2) - 22%], these compounds did not meet the NJDKQP criteria and in-house criteria and surrogate failure confirms with MS-MSD while,

PB164261TB[2,4-DCAA(2) - 57%],this compound did not meet the NJDKQP criteria but met the in-house criteria.

The Retention Times were acceptable for all samples.

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The MS {P4397-06MS} with File ID: PS028042.D recoveries met the requirements for all compounds except for 2,4,5-TP(Silvex)[212%]this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P4397-06MSD} with File ID: PS028043.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[226%]this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4397**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PATEL VAISHALI** **Date:** **10/29/2024**

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LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/14/24	
			EPH	NJEPH		10/14/24	10/15/24	
P4397-04	**WB-301-SW**	**WATER**			**10/10/24**			**10/11/24**
			PCB	8082A		10/14/24	10/14/24	
P4397-06	**WB-301-BOT**	**TCLP**			**10/10/24**			**10/11/24**
			TCLP Herbicide	8151A		10/24/24	10/24/24	
			TCLP Pesticide	8081B		10/22/24	10/24/24	

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Hit Summary Sheet
SW-846

SDG No.: P4397 **Order ID:** P4397

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

QC
SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS028007.D	PIBLK-PS028007.D	2,4-DCAA	1	500	489	98		70 (39)	130 (175)
		2,4-DCAA	2	500	461	92		70 (39)	130 (175)
I.BLK-PS028035.D	PIBLK-PS028035.D	2,4-DCAA	1	500	508	102		70 (39)	130 (175)
		2,4-DCAA	2	500	489	98		70 (39)	130 (175)
PB164378BL	PB164378BL	2,4-DCAA	1	500	510	102		70 (39)	130 (175)
		2,4-DCAA	2	500	516	103		70 (39)	130 (175)
PB164378BS	PB164378BS	2,4-DCAA	1	500	506	101		70 (39)	130 (175)
		2,4-DCAA	2	500	542	108		70 (39)	130 (175)
P4397-06	WB-301-BOT	2,4-DCAA	1	500	136	27	*	70 (39)	130 (175)
		2,4-DCAA	2	500	111	22	*	70 (39)	130 (175)
P4397-06MS	WB-301-BOTMS	2,4-DCAA	1	500	138	28	*	70 (39)	130 (175)
		2,4-DCAA	2	500	114	23	*	70 (39)	130 (175)
P4397-06MSD	WB-301-BOTMSD	2,4-DCAA	1	500	142	28	*	70 (39)	130 (175)
		2,4-DCAA	2	500	111	22	*	70 (39)	130 (175)
I.BLK-PS028046.D	PIBLK-PS028046.D	2,4-DCAA	1	500	506	101		70 (39)	130 (175)
		2,4-DCAA	2	500	479	96		70 (39)	130 (175)
I.BLK-PS028071.D	PIBLK-PS028071.D	2,4-DCAA	1	500	501	100		70 (39)	130 (175)
		2,4-DCAA	2	500	483	97		70 (39)	130 (175)
PB164261TB	PB164261TB	2,4-DCAA	1	500	349	70		70 (39)	130 (175)
		2,4-DCAA	2	500	285	57	*	70 (39)	130 (175)
I.BLK-PS028075.D	PIBLK-PS028075.D	2,4-DCAA	1	500	508	102		70 (39)	130 (175)
		2,4-DCAA	2	500	418	84		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028042.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**WB-301-BOTMS**											
P4397-06MS	2,4-D	50	0	55.2	ug/L	110				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	106	ug/L	212	*			70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028043.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WB-301-BOTMSD**											
P4397-06MSD	2,4-D	50	0	56.6	ug/L	113		3		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	113	ug/L	226	*	6		70 (62)	130 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **Datafile :** PS028038.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164378BS	2,4-D	5	5.00	ug/L	100				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.40	ug/L	108				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164378BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab Sample ID: PB164378BL Lab File ID: PS028037.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/24/2024

Date Analyzed (1): 10/24/2024 Date Analyzed (2): 10/24/2024

Time Analyzed (1): 17:09 Time Analyzed (2): 17:09

Instrument ID (1): ECD_S Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB164378BS	PB164378BS	PS028038.D	10/24/2024	10/24/2024
WB-301-BOT	P4397-06	PS028041.D	10/24/2024	10/24/2024
WB-301-BOTMS	P4397-06MS	PS028042.D	10/24/2024	10/24/2024
WB-301-BOTMSD	P4397-06MSD	PS028043.D	10/24/2024	10/24/2024
PB164261TB	PB164261TB	PS028073.D	10/28/2024	10/28/2024

COMMENTS:

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **PS028041.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-06	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028041.D	1	10/24/24 11:28	10/24/24 18:45	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	136	*	70 (39) - 130 (175)	27%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Sample Results: **PS028041.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 18:45
Operator : AR\AJ
Sample : P4397-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-301-BOT

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:45:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.091	7.614	367.1E6	105.1E6	136.109m	110.824
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 18:45
Operator : AR\AJ
Sample : P4397-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

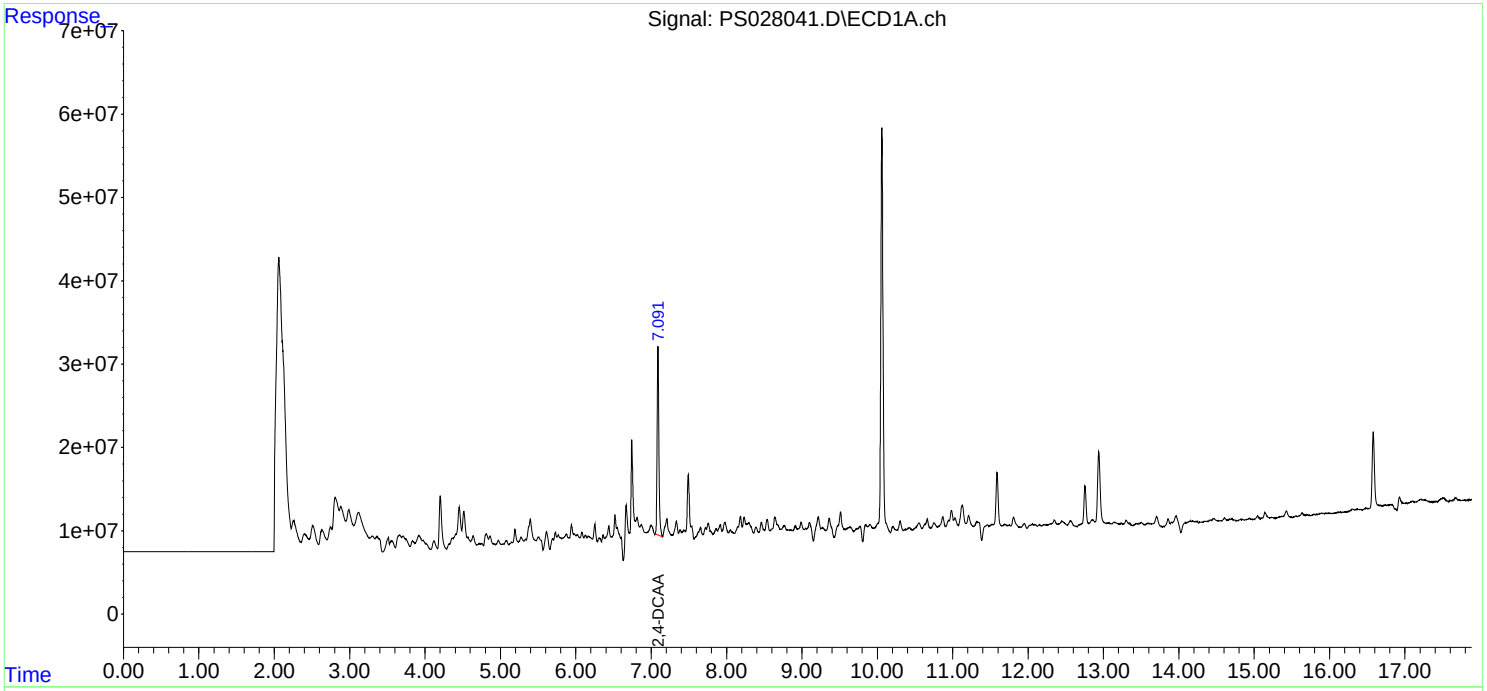
Instrument :
ECD_S
ClientSampleId :
WB-301-BOT

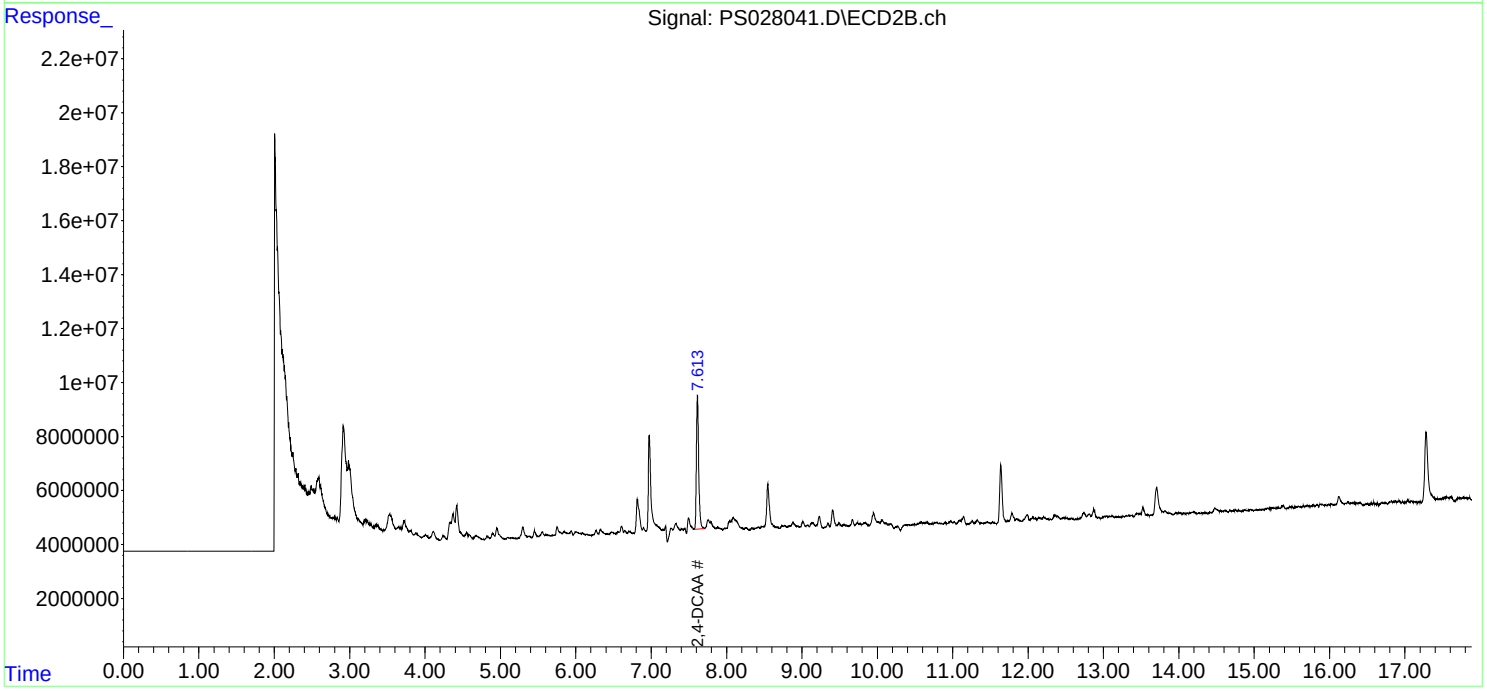
Manual Integrations APPROVED

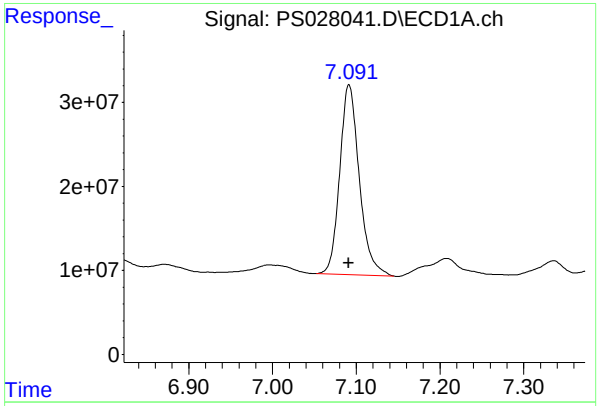
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:45:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







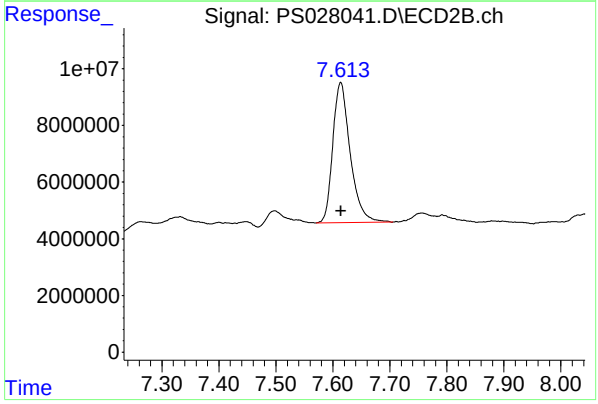
#4 2,4-DCAA

R.T.: 7.091 min
Delta R.T.: 0.000 min
Response: 367080368
Conc: 136.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
WB-301-BOT

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024



#4 2,4-DCAA

R.T.: 7.614 min
Delta R.T.: 0.000 min
Response: 105136006
Conc: 110.82 ng/ml

Raw Data: **PS028073.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	PB164261TB	SDG No.:	P4397
Lab Sample ID:	PB164261TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028073.D	1	10/24/24 11:28	10/28/24 13:11	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	349		70 (39) - 130 (175)	70%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028073.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 13:11
Operator : AR\AJ
Sample : PB164261TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164261TB

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:23:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.089	7.606	942.5E6	270.6E6	349.479m	285.201
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sample Results: **PS028073.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028073.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 13:11
Operator : AR\AJ
Sample : PB164261TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

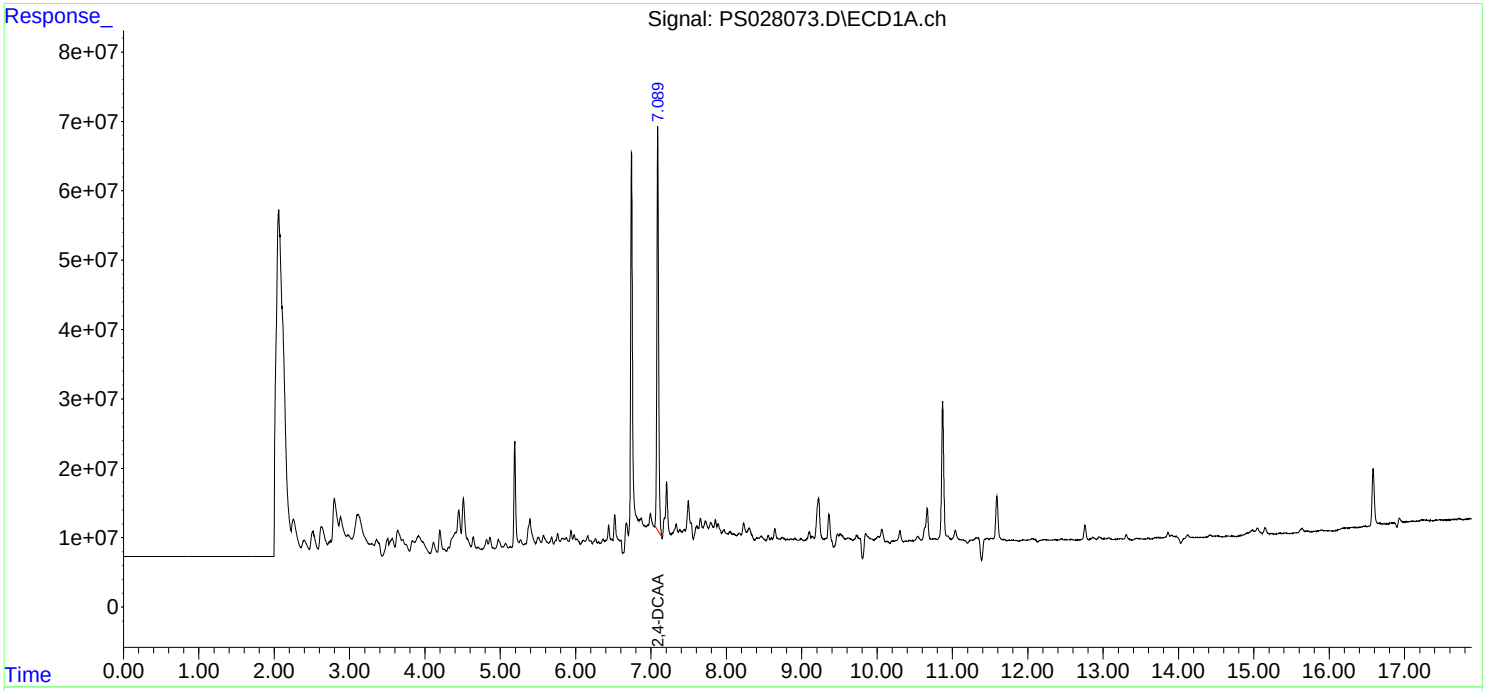
Instrument :
ECD_S
ClientSampleId :
PB164261TB

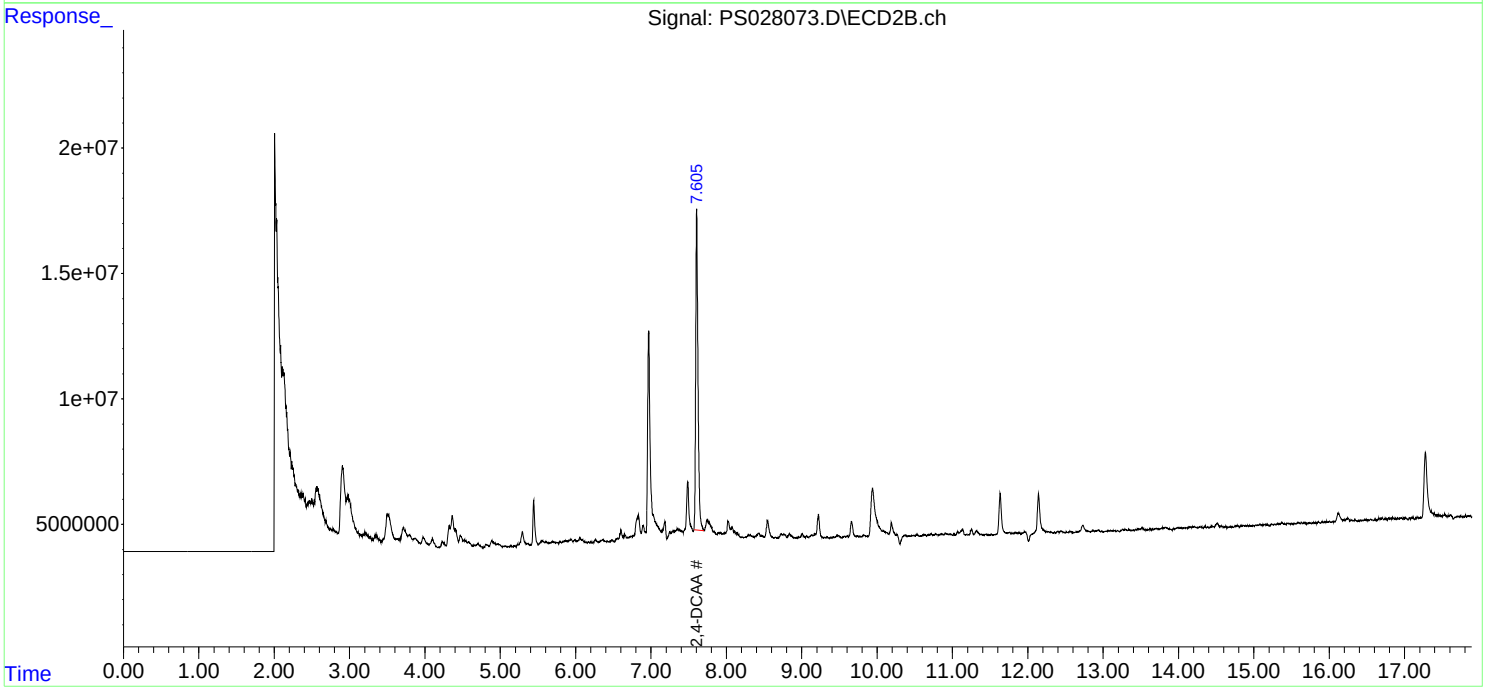
Manual Integrations APPROVED

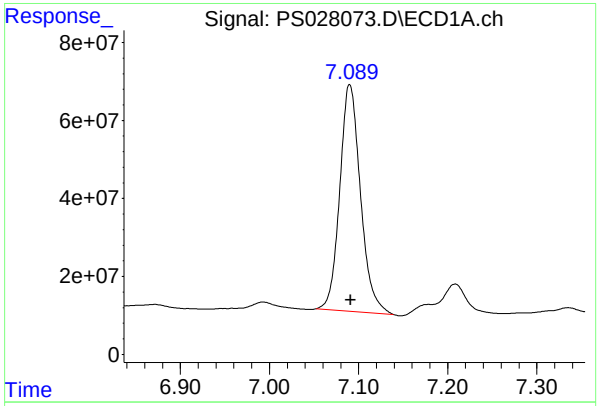
Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:23:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







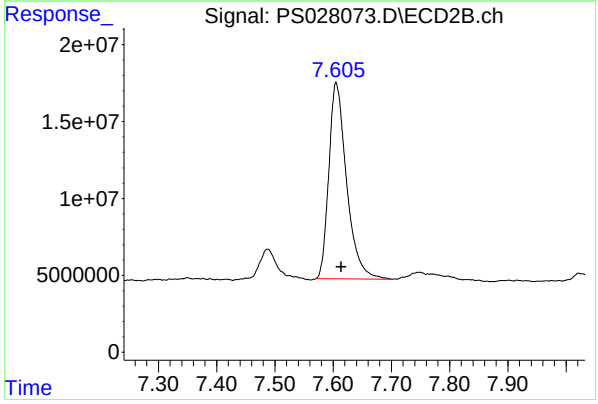
#4 2,4-DCAA

R.T.: 7.089 min
Delta R.T.: -0.002 min
Response: 942532239
Conc: 349.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164261TB

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



#4 2,4-DCAA

R.T.: 7.606 min
Delta R.T.: -0.009 min
Response: 270563667
Conc: 285.20 ng/ml

CALIBRATION SUMMARY

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028008.D RT 500 = PS028009.D

RT 750 = PS028010.D RT 1000 = PS028011.D RT 1500 = PS028012.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.03	9.03	9.03	9.03	9.03	9.03	8.93	9.13
2,4-D	8.18	8.18	8.18	8.18	8.18	8.18	8.08	8.28
2,4-DCAA	7.09	7.09	7.09	7.09	7.09	7.09	6.99	7.19

Raw Data

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028008.D RT 500 = PS028009.D

RT 750 = PS028010.D RT 1000 = PS028011.D RT 1500 = PS028012.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.73	9.73	9.73	9.73	9.72	9.73	9.63	9.83
2,4-D	8.84	8.84	8.84	8.84	8.84	8.84	8.74	8.94
2,4-DCAA	7.61	7.62	7.61	7.62	7.61	7.61	7.51	7.71

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028008.D **CF 500 =** PS028009.D

CF 750 = PS028010.D **CF 1000 =** PS028011.D **CF 1500 =** PS028012.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	19584000000	16293000000	15358800000	15287500000	14230600000	16150800000	13
2,4-D	4140980000	3388880000	3183890000	3192570000	3036110000	3388490000	13
2,4-DCAA	3343560000	2711910000	2549070000	2475610000	2404680000	2696970000	14

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Instrument ID: ECD_S **Calibration Date(s):** 10/23/2024 10/23/2024

Calibration Times: 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028008.D **CF 500 =** PS028009.D

CF 750 = PS028010.D **CF 1000 =** PS028011.D **CF 1500 =** PS028012.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	4575720000	4585960000	4376840000	4595510000	4689140000	4564630000	3
2,4-D	1125240000	990045000	959343000	966564000	944531000	997145000	7
2,4-DCAA	1149150000	929743000	912345000	889645000	862510000	948678000	12

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 11:28
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/24/2024
Supervised By :Ankita Jodhani 10/24/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 12:43:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 12:40:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.091	7.614	668.7E6	229.8E6	233.149	230.503
		Target Compounds						
1)	T	Dalapon	2.538	2.613	1013.0E6	327.0E6	212.887	192.117
2)	T	3,5-DICHL...	6.283	6.587	914.1E6	298.0E6	217.686	214.709
3)	T	4-Nitroph...	6.887	7.149	415.9E6	161.8E6	213.251	216.628
5)	T	DICAMBA	7.269	7.807	2430.2E6	660.5E6	212.222	198.732
6)	T	MCPP	7.445	7.907	133.4E6	46625854	18.745	18.457
7)	T	MCPA	7.589	8.146	217.2E6	114.4E6	20.139	22.573m
8)	T	DICHLORPROP	7.955	8.513	669.5E6	212.3E6	219.426	218.490
9)	T	2,4-D	8.177	8.840	778.5E6	211.5E6	217.992	206.410
10)	T	Pentachlo...	8.463	9.349	9595.9E6	2603.5E6	222.383	199.159
11)	T	2,4,5-TP ...	9.029	9.725	3721.0E6	869.4E6	217.873	192.647
12)	T	2,4,5-T	9.314	10.139	3854.9E6	805.4E6	217.787	195.183
13)	T	2,4-DB	9.877	10.702	593.7E6	112.5E6	216.692	212.499
14)	T	DINOSEB	11.050	11.075	2573.1E6	726.9E6	220.080	208.003
15)	T	Picloram	10.867	12.152	5081.6E6	783.6E6	217.301	180.911
16)	T	DCPA	11.350	12.104	4426.8E6	941.4E6	224.735	198.286

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 11:28
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

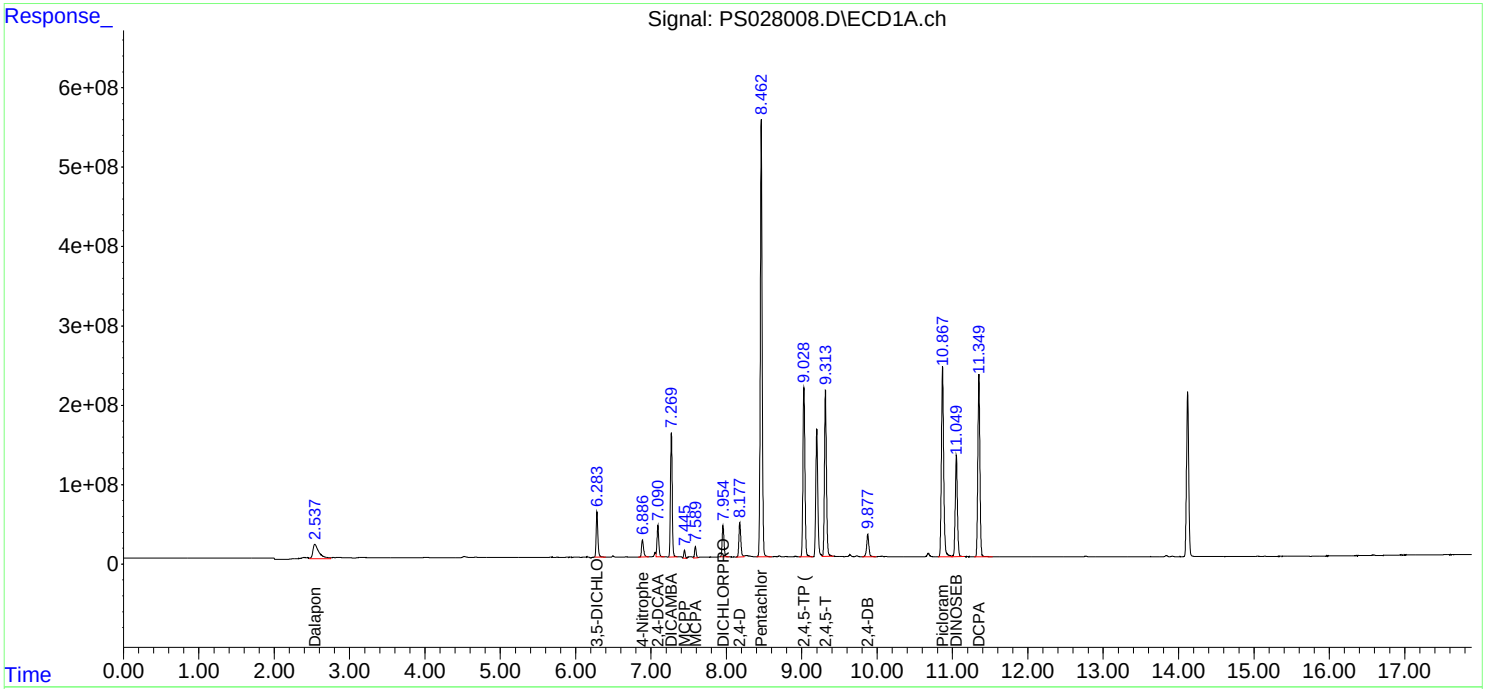
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

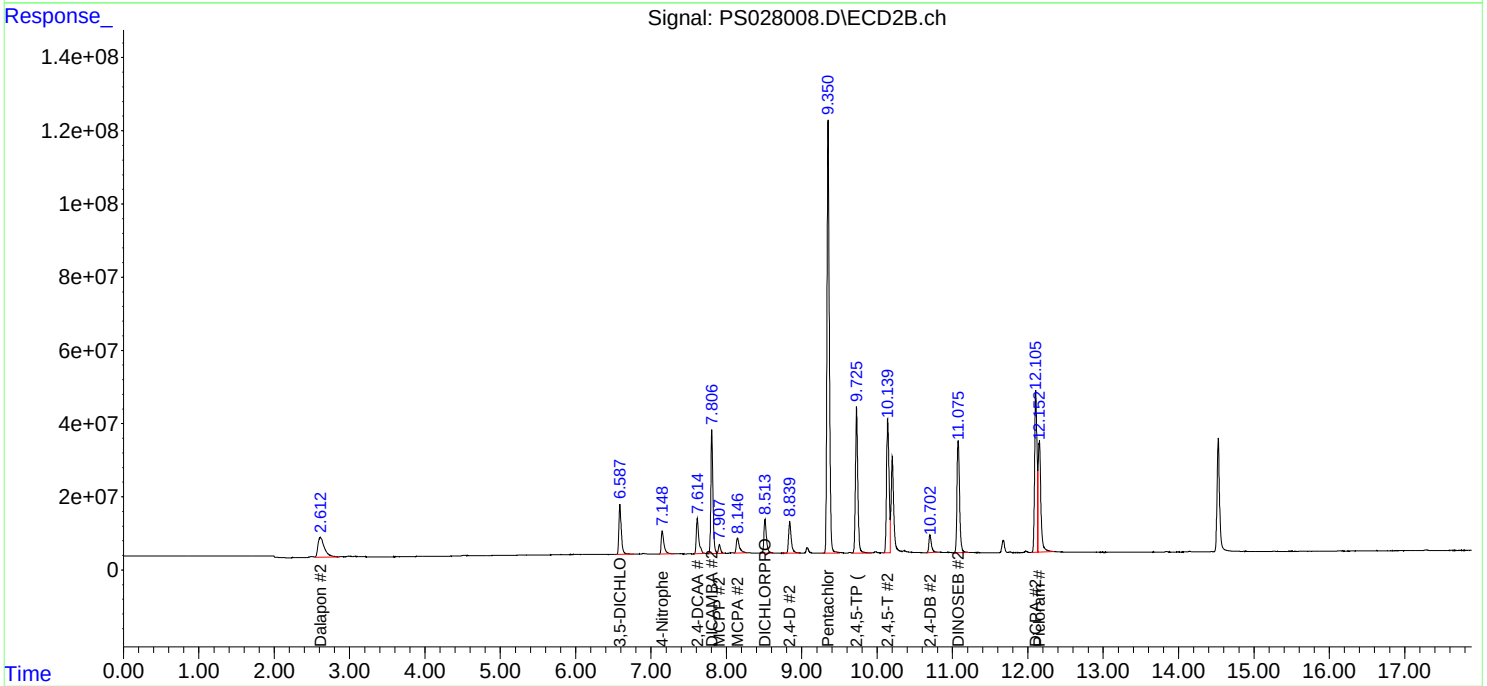
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/24/2024
Supervised By :Ankita Jodhani 10/24/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 12:43:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 12:40:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 11:52
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 12:42:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 12:40:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.092	7.616	1356.0E6	464.9E6	515.476	504.722
		Target Compounds						
1)	T	Dalapon	2.540	2.613	2056.5E6	758.2E6	472.248	458.197
2)	T	3,5-DICHL...	6.284	6.587	1854.8E6	609.7E6	482.804	476.043
3)	T	4-Nitroph...	6.886	7.149	837.8E6	314.2E6	469.846	464.945
5)	T	DICAMBA	7.269	7.808	5159.5E6	1529.1E6	481.590	473.587
6)	T	MCPP	7.448	7.910	333.1E6	121.1E6	46.741	47.492
7)	T	MCPA	7.592	8.150	485.6E6	214.5E6	46.968	48.993
8)	T	DICHLORPROP	7.955	8.515	1360.7E6	423.9E6	486.609	474.683
9)	T	2,4-D	8.178	8.836	1592.8E6	465.3E6	484.659	477.402
10)	T	Pentachlo...	8.463	9.350	19514.2E6	6275.0E6	494.366	491.867
11)	T	2,4,5-TP ...	9.030	9.727	7739.2E6	2178.3E6	489.020	486.083
12)	T	2,4,5-T	9.314	10.141	8004.5E6	1956.4E6	487.904	480.661
13)	T	2,4-DB	9.876	10.702	1236.6E6	248.1E6	485.411	498.121
14)	T	DINOSEB	11.051	11.076	5179.3E6	1556.1E6	484.306	470.290
15)	T	Picloram	10.867	12.149	10616.1E6	2043.7E6	489.111	460.824
16)	T	DCPA	11.351	12.107	8832.5E6	2239.3E6	490.188	479.525

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

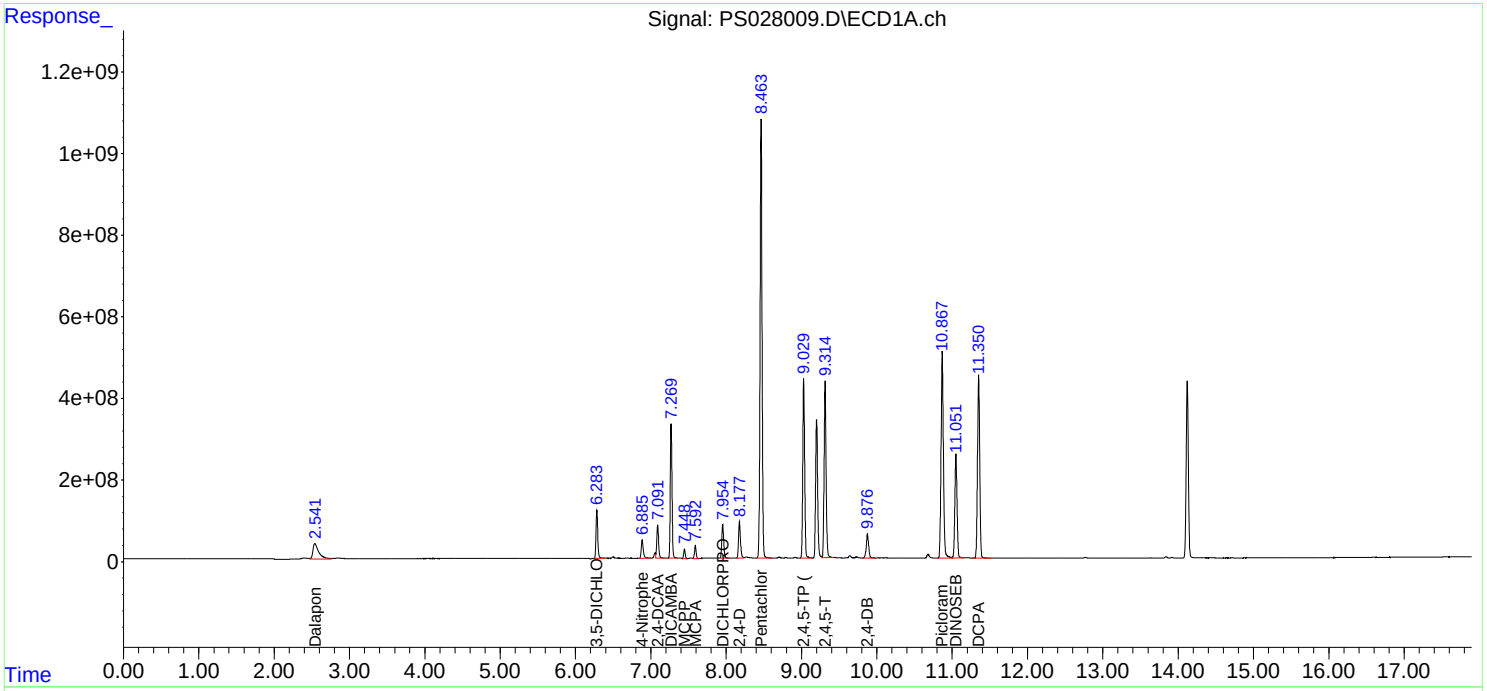
ICAL Form

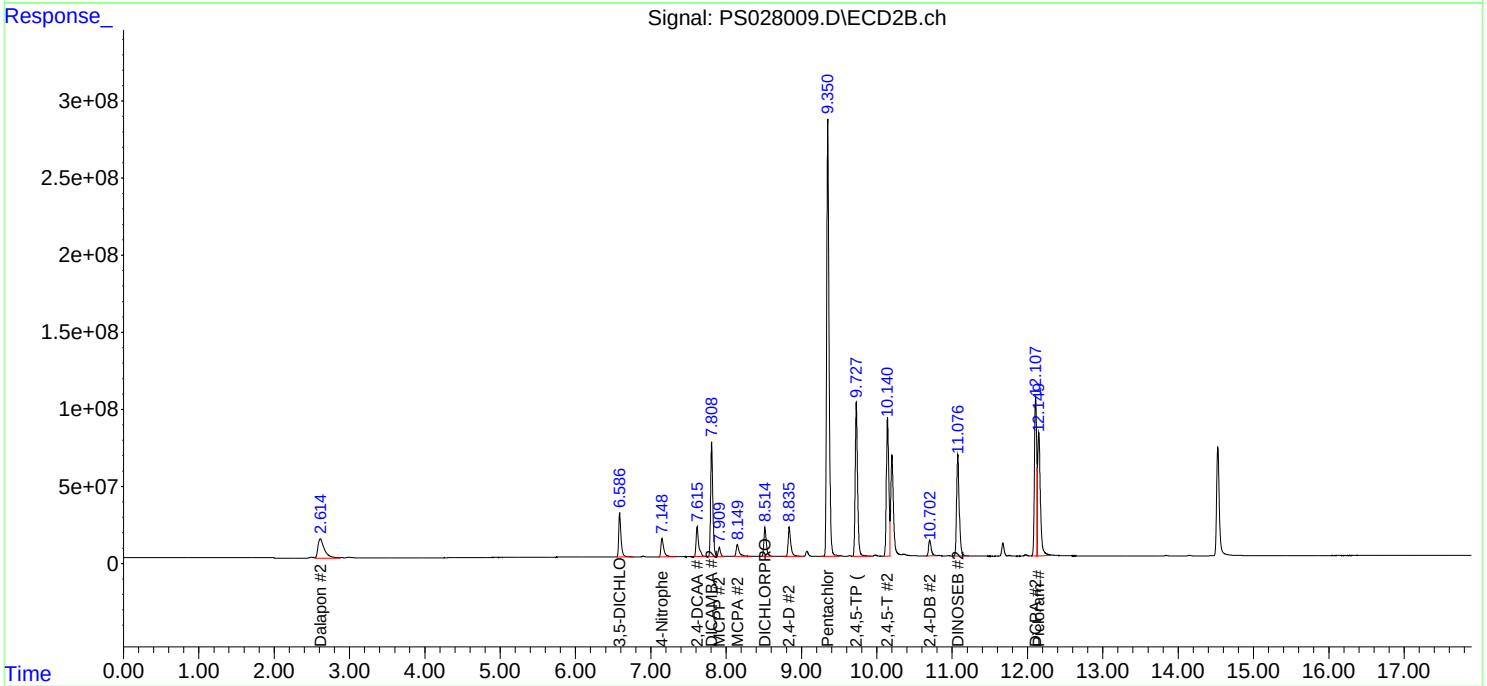
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 11:52
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 12:42:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 12:40:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 12:16
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 12:40:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 12:40:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.091	7.614	1911.8E6	684.3E6	750.000	750.000
		Target Compounds						
1)	T	Dalapon	2.539	2.614	2859.5E6	1121.4E6	682.500	682.500
2)	T	3,5-DICHL...	6.283	6.586	2576.9E6	872.1E6	697.500	697.500
3)	T	4-Nitroph...	6.886	7.148	1177.2E6	451.1E6	682.500	682.500
5)	T	DICAMBA	7.270	7.808	7366.7E6	2258.9E6	705.000	705.000
6)	T	MCPP	7.449	7.912	505.2E6	177.8E6	70.500	70.500
7)	T	MCPA	7.594	8.151	713.8E6	289.0E6	69.750	69.750
8)	T	DICHLORPROP	7.955	8.514	1901.7E6	623.3E6	705.000	705.000
9)	T	2,4-D	8.177	8.837	2244.6E6	676.3E6	705.000	705.000
10)	T	Pentachlo...	8.463	9.348	26978.0E6	8766.9E6	712.500	712.500
11)	T	2,4,5-TP ...	9.029	9.725	10943.1E6	3118.5E6	712.500	712.500
12)	T	2,4,5-T	9.314	10.140	11371.6E6	2865.5E6	712.500	712.500
13)	T	2,4-DB	9.876	10.701	1775.4E6	337.6E6	712.500	712.500
14)	T	DINOSEB	11.051	11.075	7310.0E6	2331.3E6	705.000	705.000
15)	T	Picloram	10.867	12.148	15005.3E6	3254.2E6	712.500	712.500
16)	T	DCPA	11.350	12.107	12698.1E6	3365.5E6	720.000	720.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

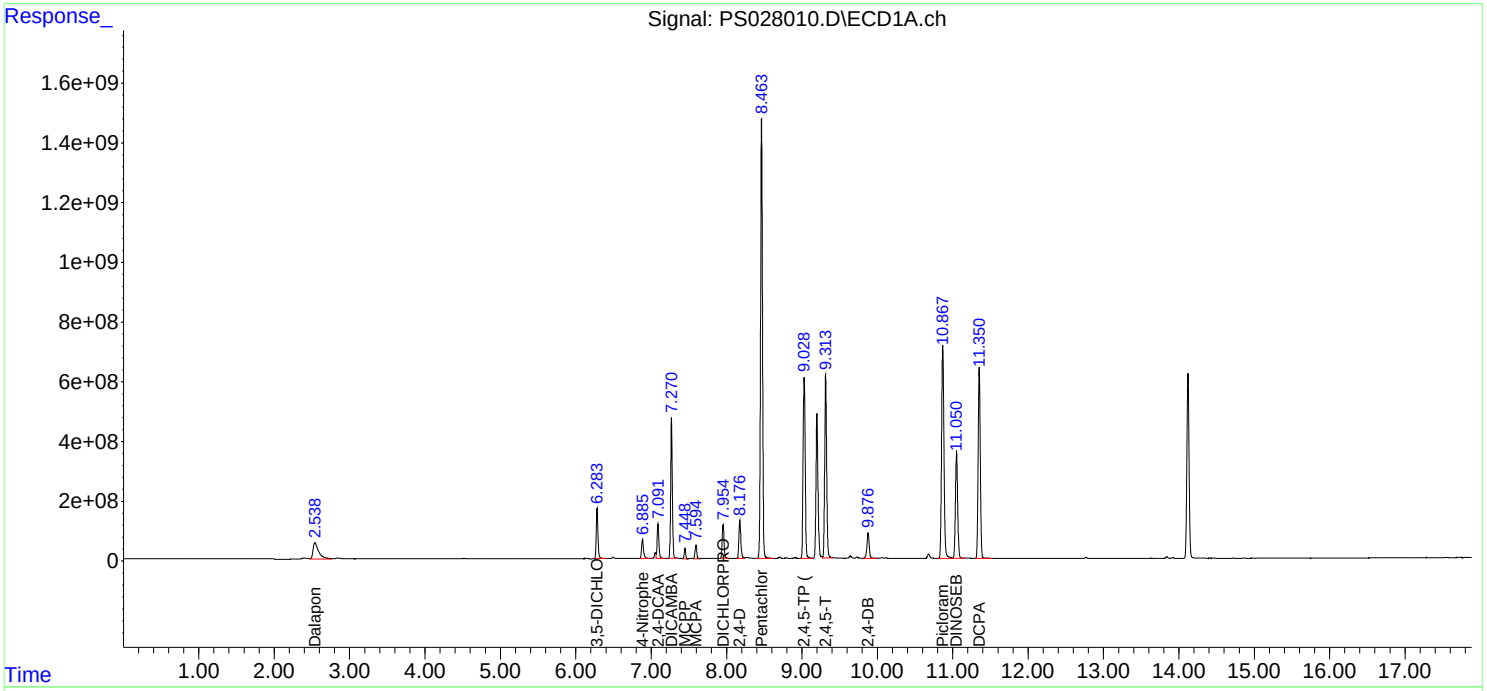
ICAL Form

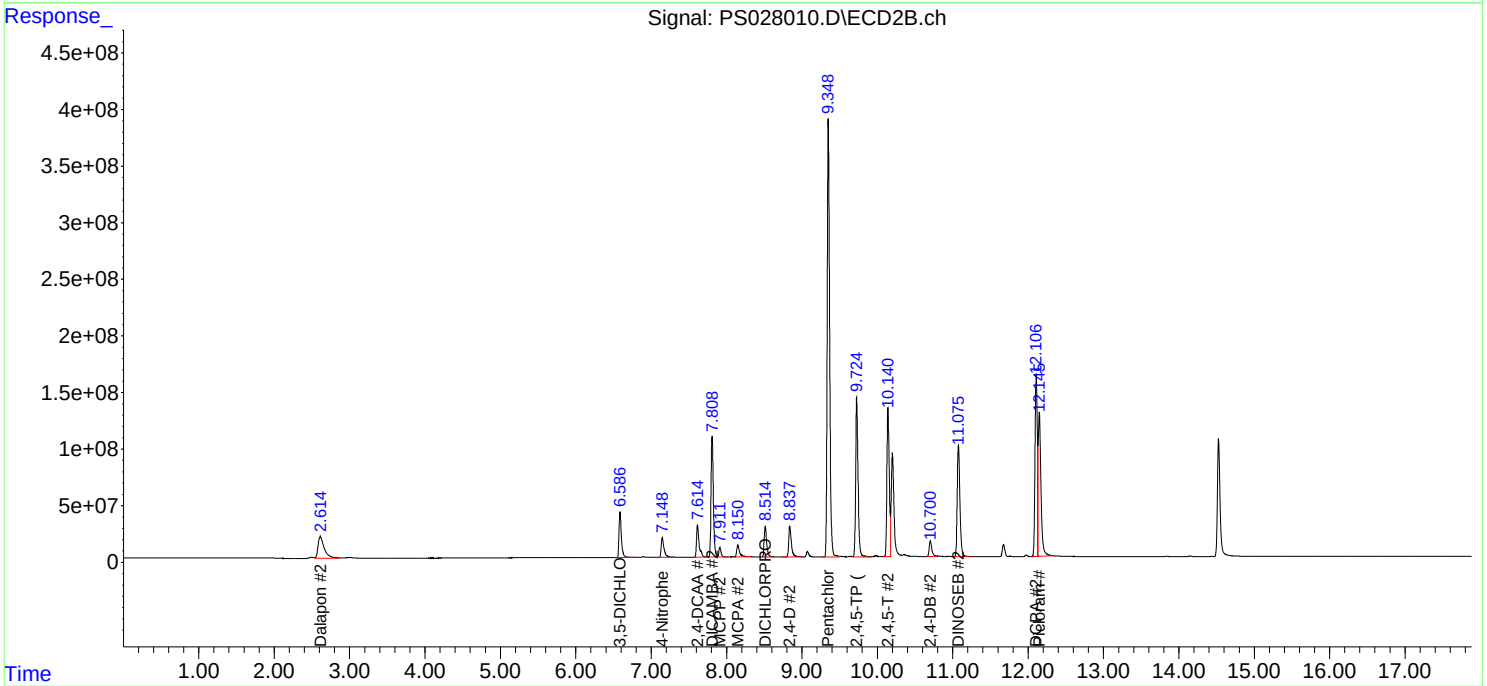
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 12:16
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 12:40:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 12:40:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 12:40
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/24/2024
Supervised By :Ankita Jodhani 10/24/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 13:01:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:00:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.091	7.615	2475.6E6	889.6E6	887.954m	916.953
		Target Compounds						
1)	T	Dalapon	2.540	2.618	3945.2E6	1529.9E6	847.927	901.668
2)	T	3,5-DICHL...	6.283	6.586	3428.2E6	1165.0E6	842.087	860.358
3)	T	4-Nitroph...	6.886	7.147	1578.4E6	571.4E6	832.283	796.925
5)	T	DICAMBA	7.270	7.807	9790.7E6	3216.8E6	874.773	960.752
6)	T	MCPP	7.451	7.913	713.2E6	254.0E6	98.584	98.830
7)	T	MCPA	7.596	8.153	964.1E6	394.8E6	90.272	81.189
8)	T	DICHLORPROP	7.955	8.512	2530.0E6	843.2E6	854.364	884.711
9)	T	2,4-D	8.177	8.838	3001.0E6	908.6E6	863.210	899.309
10)	T	Pentachlo...	8.464	9.348	34721.9E6	12305.5E6	836.669	943.483
11)	T	2,4,5-TP ...	9.029	9.726	14523.1E6	4365.7E6	873.267	962.992
12)	T	2,4,5-T	9.314	10.139	14963.1E6	3810.9E6	869.302	929.998
13)	T	2,4-DB	9.876	10.700	2383.1E6	439.6E6	888.517	857.406
14)	T	DINOSEB	11.051	11.075	9692.8E6	3073.9E6	854.237	893.958
15)	T	Picloram	10.867	12.151	20142.9E6	4581.3E6	881.934	1028.558
16)	T	DCPA	11.351	12.106	16624.8E6	4257.6E6	870.283	911.822

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 12:40
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

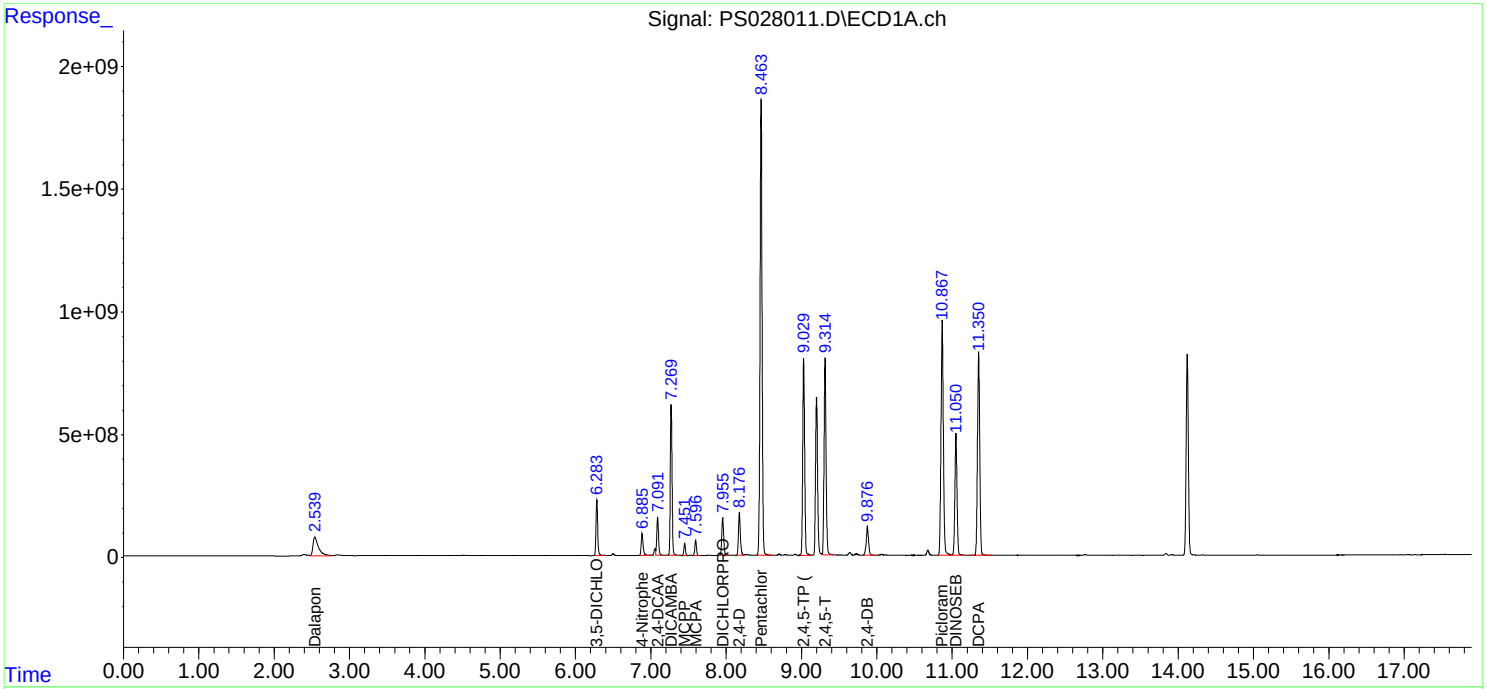
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

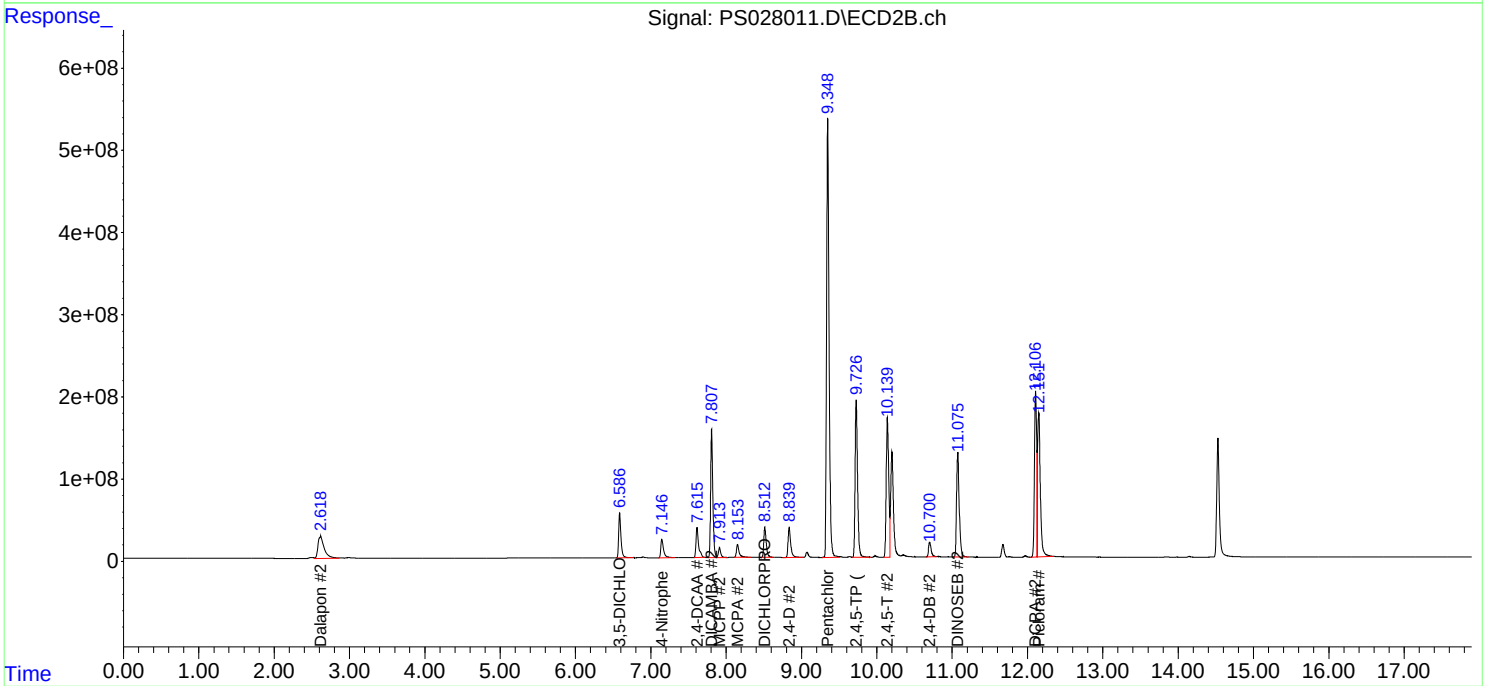
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/24/2024
Supervised By :Ankita Jodhani 10/24/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 13:01:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:00:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 13:04
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 13:22:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:21:53 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.092	7.613	3607.0E6	1293.8E6	1337.439	1363.756
		Target Compounds						
1)	T	Dalapon	2.539	2.605	5693.3E6	2375.0E6	1249.509	1392.628
2)	T	3,5-DICHL...	6.283	6.586	4883.8E6	1773.3E6	1234.209	1325.841
3)	T	4-Nitroph...	6.885	7.148	2274.2E6	803.0E6	1229.014	1161.649
5)	T	DICAMBA	7.270	7.807	13980.2E6	4414.0E6	1278.268	1335.679
6)	T	MCPP	7.455	7.916	1089.5E6	372.8E6	148.582	144.225
7)	T	MCPA	7.602	8.156	1436.7E6	538.2E6	135.489	115.458
8)	T	DICHLORPROP	7.955	8.513	3628.2E6	1230.1E6	1258.171	1312.846
9)	T	2,4-D	8.177	8.836	4280.9E6	1331.8E6	1263.373	1335.602
10)	T	Pentachlo...	8.464	9.349	45399.3E6	16900.3E6	1147.259	1319.706
11)	T	2,4,5-TP ...	9.029	9.724	20278.7E6	6682.0E6	1255.585	1463.869
12)	T	2,4,5-T	9.314	10.140	20921.3E6	5944.0E6	1252.283	1445.378
13)	T	2,4-DB	9.876	10.699	3471.3E6	716.7E6	1318.417	1403.185
14)	T	DINOSEB	11.051	11.076	13602.5E6	4328.4E6	1235.828	1286.360
15)	T	Picloram	10.867	12.149	28455.7E6	7079.1E6	1278.026	1553.519
16)	T	DCPA	11.351	12.106	23084.7E6	6520.9E6	1248.604	1405.011

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

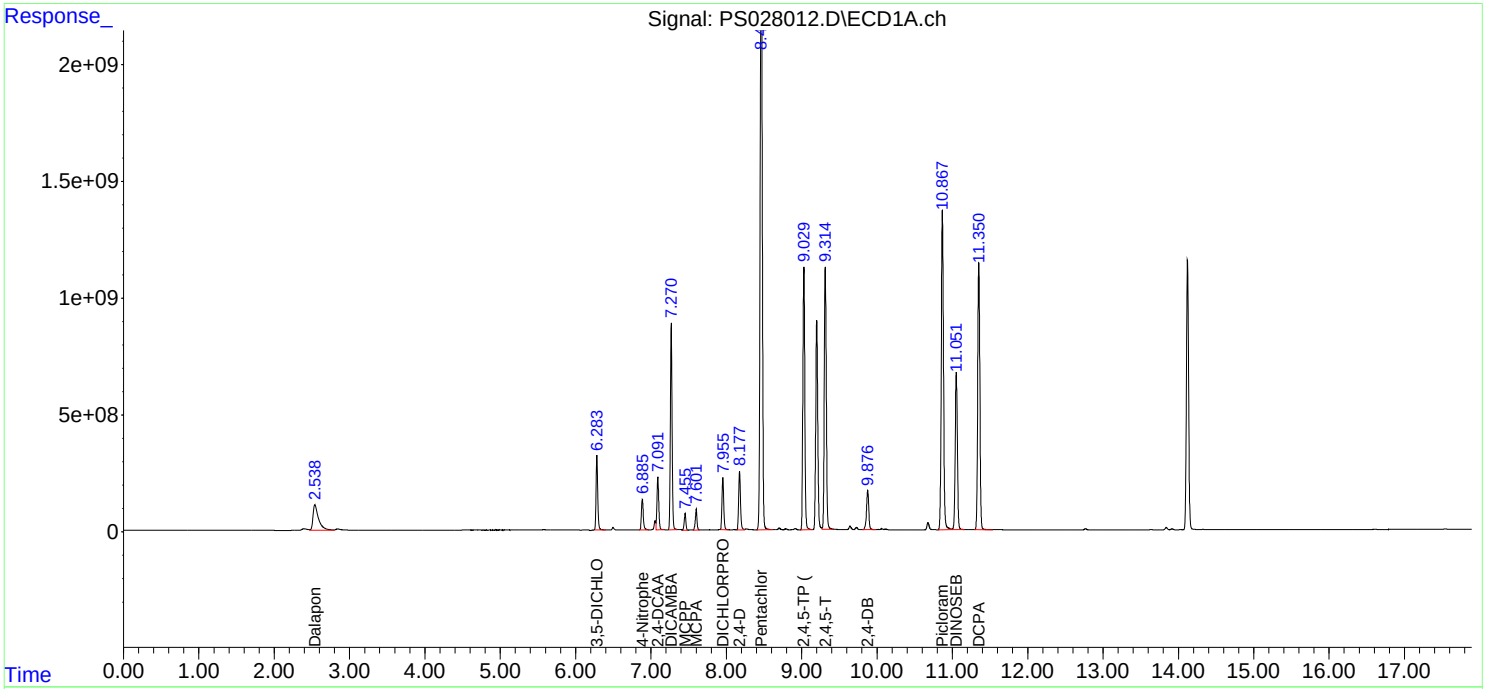
ICAL Form

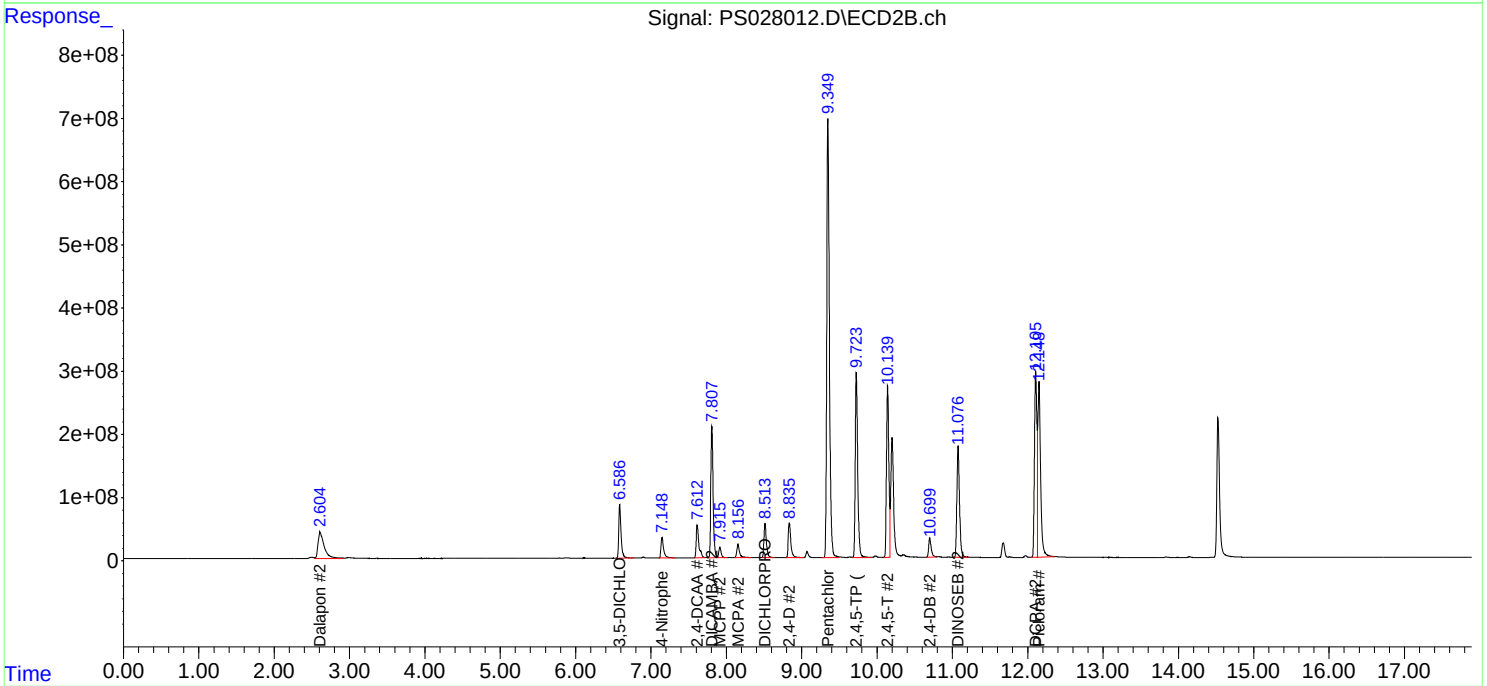
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 13:04
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 13:22:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:21:53 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 13:28
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS102324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 24 05:23:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.092	7.613	1976.3E6	674.6E6	732.803	711.122
		Target Compounds						
1)	T	Dalapon	2.540	2.620	3067.2E6	1186.5E6	673.166	695.713
2)	T	3,5-DICHL...	6.283	6.587	2675.0E6	918.2E6	676.020	686.492
3)	T	4-Nitroph...	6.886	7.147	1223.9E6	457.9E6	661.442	662.392
5)	T	DICAMBA	7.270	7.809	7642.3E6	2263.7E6	698.769	684.985
6)	T	MCPP	7.450	7.912	530.4E6	181.0E6	72.328	70.022
7)	T	MCPA	7.595	8.151	744.4E6	299.7E6	70.205	65.123
8)	T	DICHLORPROP	7.955	8.514	1982.4E6	651.6E6	687.456	695.472
9)	T	2,4-D	8.177	8.837	2340.8E6	676.7E6	690.823	678.616
10)	T	Pentachlo...	8.463	9.350	27910.1E6	9173.5E6	705.301	716.338
11)	T	2,4,5-TP ...	9.029	9.725	11422.8E6	3315.0E6	707.260	726.235
12)	T	2,4,5-T	9.314	10.138	11841.8E6	3031.7E6	708.814	737.205
13)	T	2,4-DB	9.876	10.700	1862.0E6	352.1E6	707.209	689.473
14)	T	DINOSEB	11.051	11.076	7650.9E6	2256.6E6	695.102	670.652
15)	T	Picloram	10.867	12.150	15870.8E6	3215.9E6	712.804	705.742
16)	T	DCPA	11.350	12.107	13233.5E6	3580.0E6	715.770	771.356

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

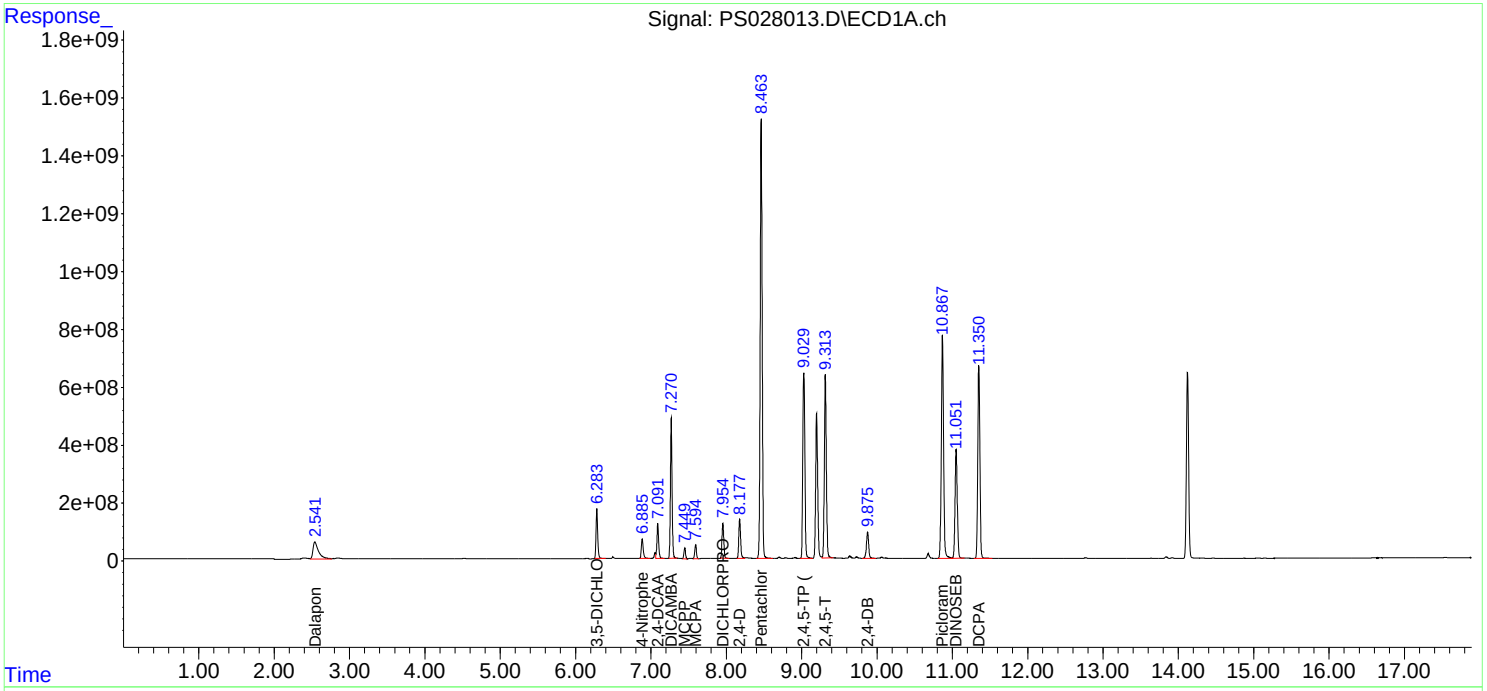
ICAL Form

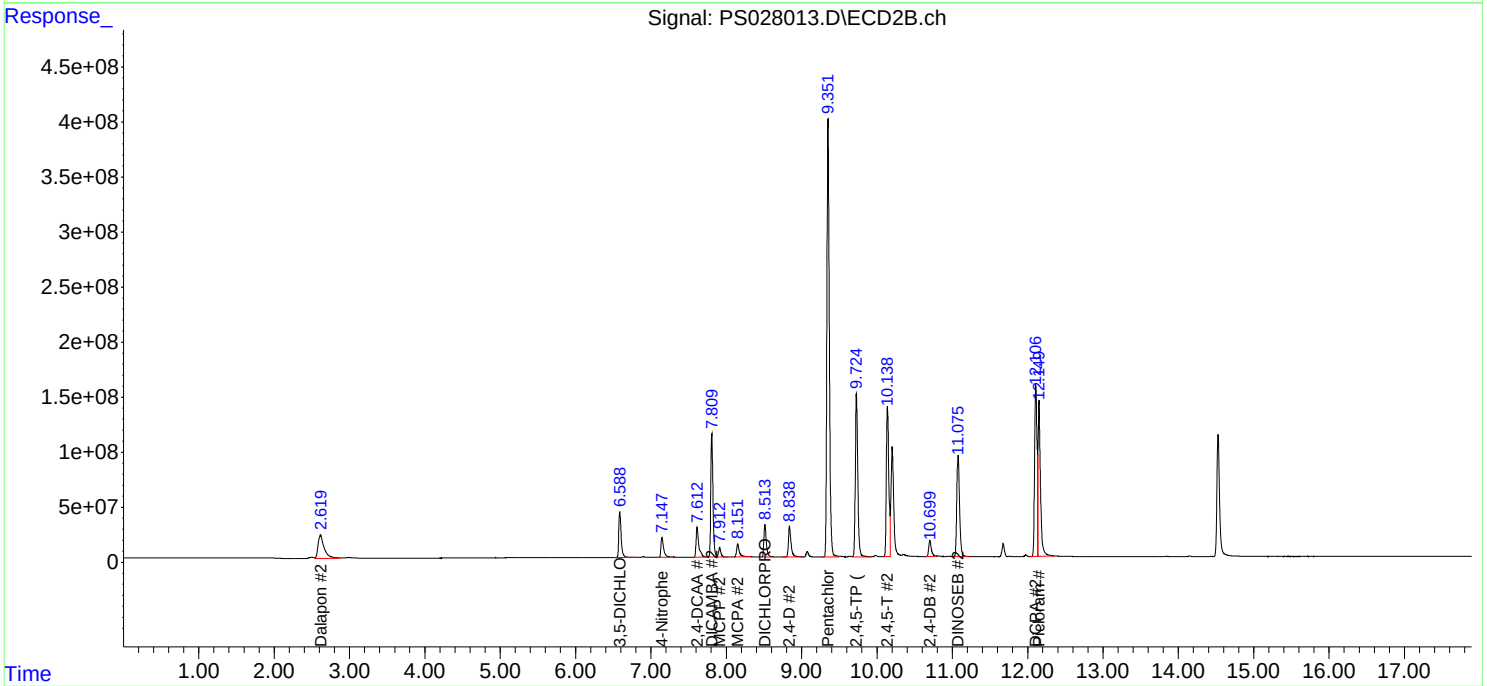
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 13:28
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS102324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 24 05:23:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PS028036.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 11:25 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.18	8.18	8.08	8.28	0.00
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.00

Raw Data: **PS028036.D**

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 11:25 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.84	8.84	8.74	8.94	0.00
2,4,5-TP(Silvex)	9.73	9.73	9.63	9.83	0.00

Raw Data: **PS028036.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028036.D **Time Analyzed:** 11:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.028	8.929	9.129	684.860	712.500	-3.9
2,4-D	8.176	8.077	8.277	665.580	705.000	-5.6
2,4-DCAA	7.091	6.991	7.191	709.960	750.000	-5.3

Raw Data: **PS028036.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028036.D **Time Analyzed:** 11:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.725	9.625	9.825	736.810	712.500	3.4
2,4-D	8.835	8.737	8.937	709.890	705.000	0.7
2,4-DCAA	7.613	7.514	7.714	733.180	750.000	-2.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 11:25
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 01:11:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.091	7.613	1914.7E6	695.5E6	709.955	733.178
		Target Compounds						
1)	T	Dalapon	2.541	2.609	2926.4E6	1183.0E6	642.263	693.684
2)	T	3,5-DICHL...	6.283	6.586	2604.7E6	927.7E6	658.246	693.571
3)	T	4-Nitroph...	6.885	7.147	1187.3E6	453.5E6	641.664	655.989
5)	T	DICAMBA	7.269	7.806	7451.1E6	2400.1E6	681.281	726.281
6)	T	MCPP	7.449	7.909	510.0E6	177.2E6	69.554	68.553
7)	T	MCPA	7.594	8.151	706.2E6	308.2E6	66.602	66.971
8)	T	DICHLORPROP	7.955	8.510	1920.5E6	672.1E6	665.995	717.319
9)	T	2,4-D	8.176	8.835	2255.3E6	707.9E6	665.579	709.891
10)	T	Pentachlo...	8.463	9.347	27226.3E6	9287.8E6	688.019	725.260
11)	T	2,4,5-TP ...	9.028	9.725	11061.0E6	3363.3E6	684.860	736.810
12)	T	2,4,5-T	9.313	10.139	11345.2E6	3060.3E6	679.090	744.163
13)	T	2,4-DB	9.875	10.699	1789.3E6	376.1E6	679.603	736.376
14)	T	DINOSEB	11.051	11.073	7315.6E6	2351.4E6	664.638	698.821
15)	T	Picloram	10.866	12.146	14972.7E6	3313.7E6	672.468	727.207
16)	T	DCPA	11.350	12.104	12750.2E6	3536.9E6	689.629	762.079

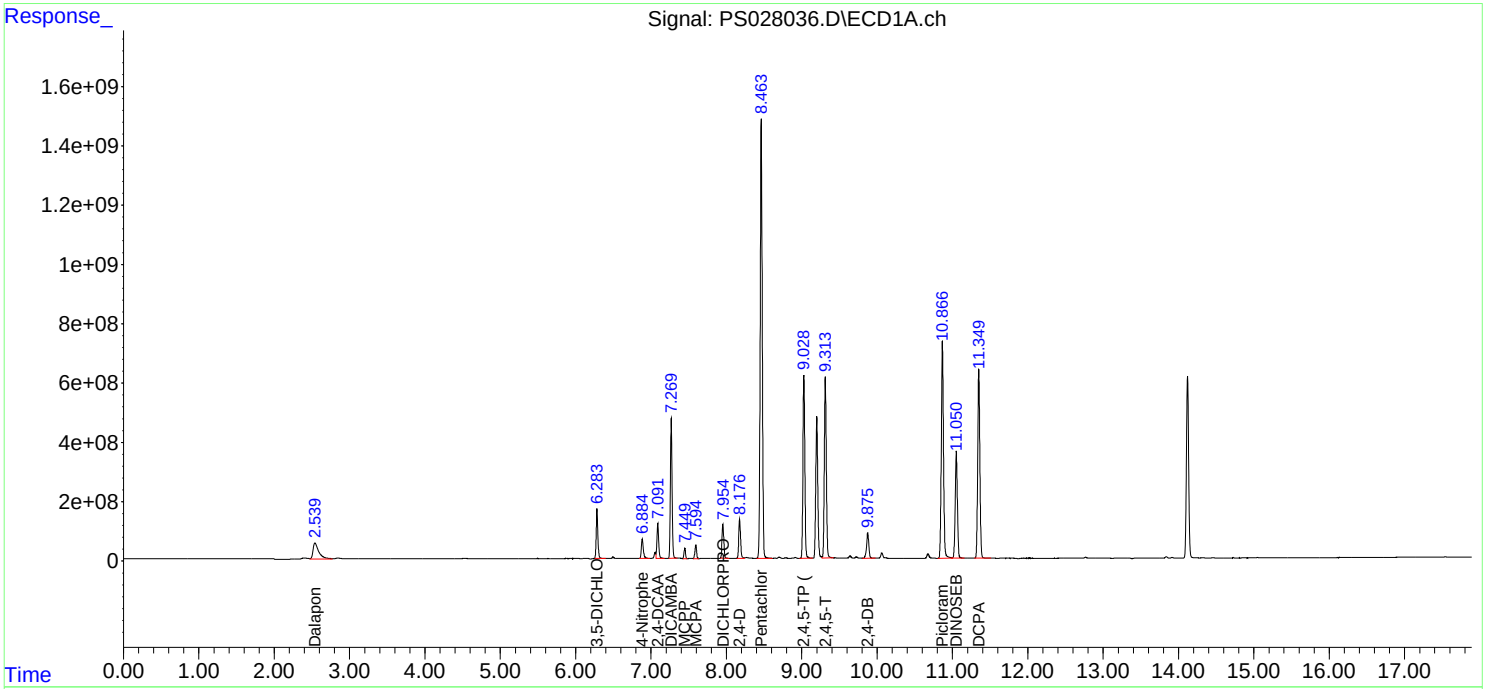
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

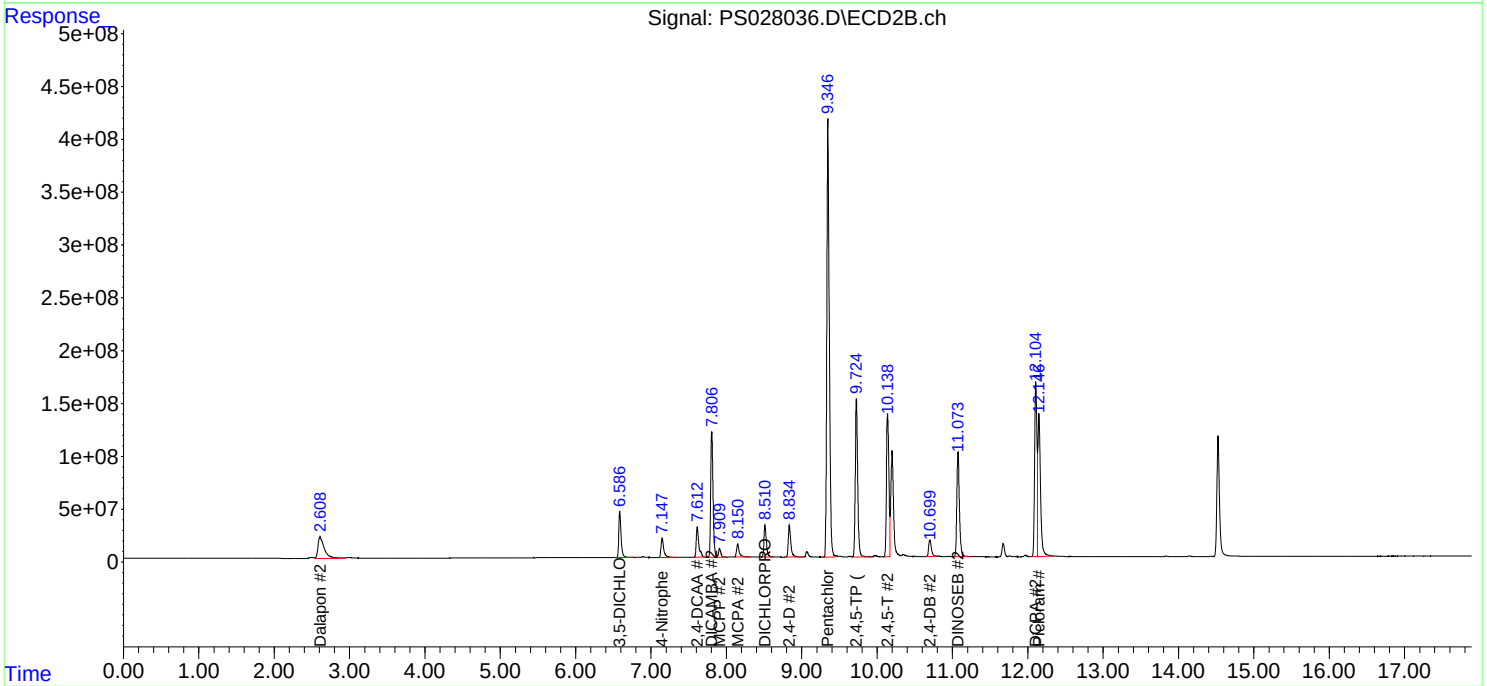
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 11:25
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 01:11:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PS028047.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 21:08 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.18	8.18	8.08	8.28	0.00
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.00

Raw Data: **PS028047.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/24/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 21:08 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.83	8.84	8.74	8.94	0.01
2,4,5-TP(Silvex)	9.72	9.73	9.63	9.83	0.01

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028047.D **Time Analyzed:** 21:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.027	8.929	9.129	693.140	712.500	-2.7
2,4-D	8.176	8.077	8.277	681.790	705.000	-3.3
2,4-DCAA	7.090	6.991	7.191	722.190	750.000	-3.7

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/24/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028047.D **Time Analyzed:** 21:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.723	9.625	9.825	791.420	712.500	11.1
2,4-D	8.833	8.737	8.937	737.820	705.000	4.7
2,4-DCAA	7.612	7.514	7.714	784.260	750.000	4.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 21:08
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 01:12:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.090	7.612	1947.7E6	744.0E6	722.187	784.263
		Target Compounds						
1)	T	Dalapon	2.541	2.603	2946.3E6	1202.9E6	646.626	705.345
2)	T	3,5-DICHL...	6.282	6.584	2627.5E6	940.2E6	663.998	702.935
3)	T	4-Nitroph...	6.884	7.146	1206.9E6	475.2E6	652.255	687.425
5)	T	DICAMBA	7.269	7.806	7529.8E6	2445.9E6	688.478	740.124
6)	T	MCPP	7.448	7.909	513.4E6	185.2E6	70.011	71.660
7)	T	MCPA	7.594	8.148	724.7E6	310.2E6	68.341	67.407
8)	T	DICHLORPROP	7.954	8.511	1928.1E6	688.0E6	668.620	734.259
9)	T	2,4-D	8.176	8.833	2310.2E6	735.7E6	681.793	737.822
10)	T	Pentachlo...	8.463	9.347	27782.2E6	9831.0E6	702.068	767.681
11)	T	2,4,5-TP ...	9.027	9.723	11194.8E6	3612.5E6	693.143	791.419
12)	T	2,4,5-T	9.312	10.138	11641.6E6	3152.6E6	696.829	766.596
13)	T	2,4-DB	9.875	10.698	1821.8E6	393.2E6	691.917	769.807
14)	T	DINOSEB	11.049	11.072	7338.6E6	2446.0E6	666.732	726.948
15)	T	Picloram	10.865	12.142	15075.2E6	3466.2E6	677.070	760.665
16)	T	DCPA	11.349	12.104	12975.8E6	3283.7E6	701.834	707.527

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

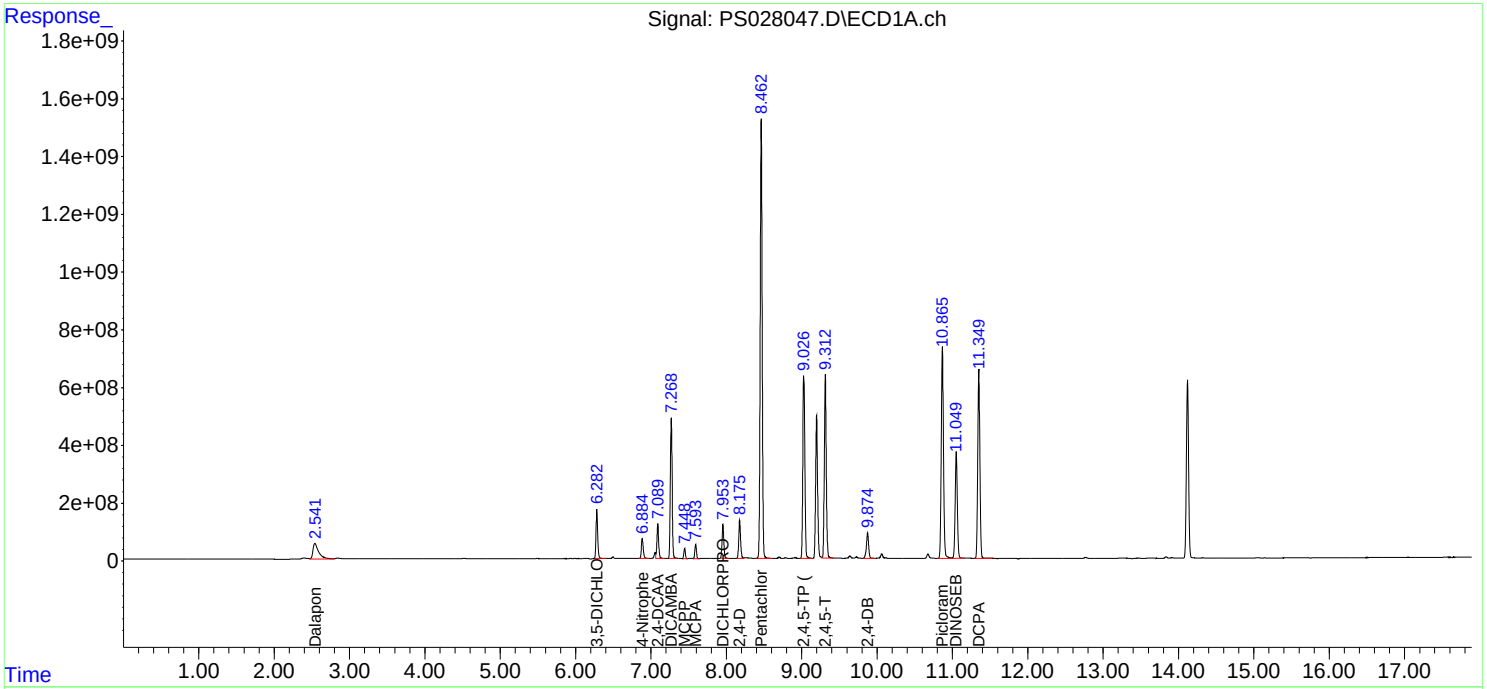
Sample Results: **PS028047.D**

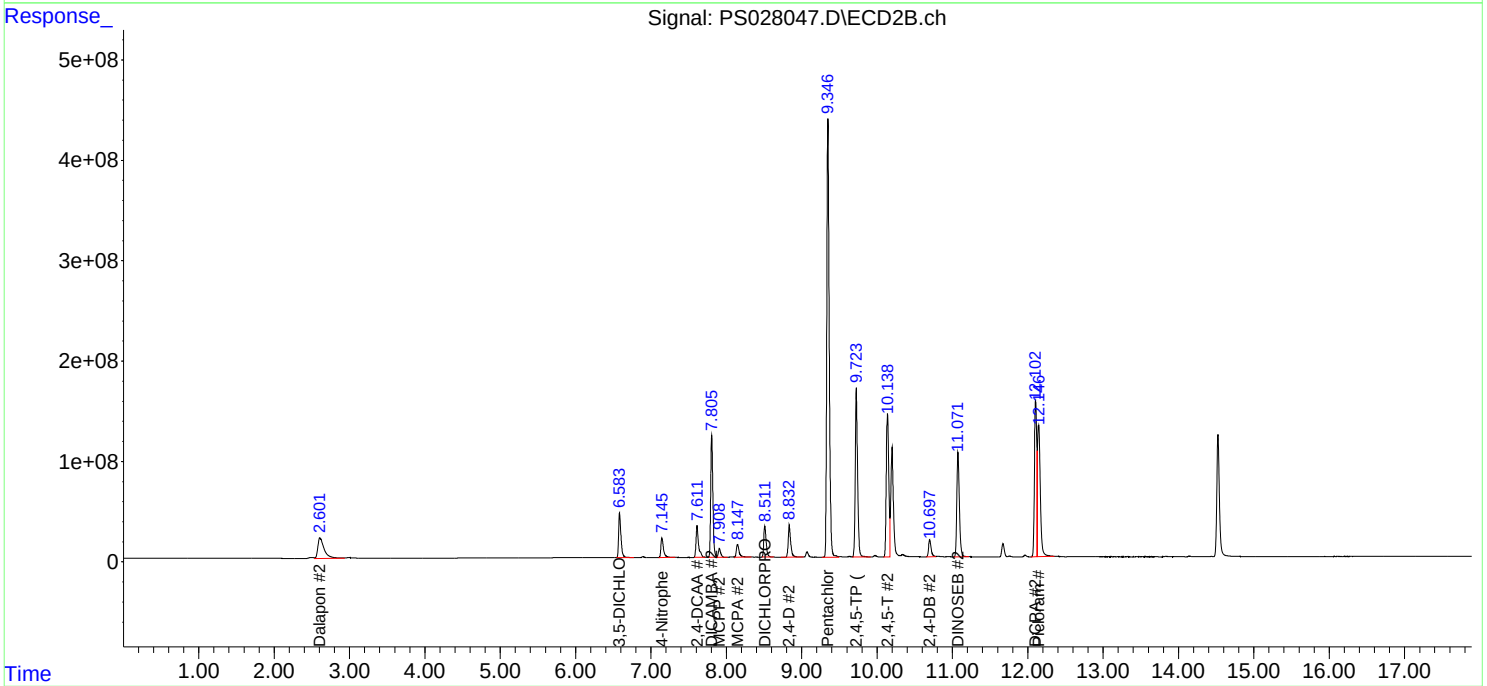
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 21:08
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 01:12:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PS028072.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 10:32 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.17	8.18	8.08	8.28	0.01
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.01

Raw Data: **PS028072.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 10:32 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.83	8.84	8.74	8.94	0.01
2,4,5-TP(Silvex)	9.72	9.73	9.63	9.83	0.01

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028072.D **Time Analyzed:** 10:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.025	8.929	9.129	699.070	712.500	-1.9
2,4-D	8.173	8.077	8.277	675.860	705.000	-4.1
2,4-DCAA	7.088	6.991	7.191	727.270	750.000	-3.0

Raw Data: **PS028072.D**

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028072.D **Time Analyzed:** 10:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.719	9.625	9.825	764.520	712.500	7.3
2,4-D	8.832	8.737	8.937	690.400	705.000	-2.1
2,4-DCAA	7.609	7.514	7.714	754.150	750.000	0.6

Quantitation Report (QT Reviewed)

Sample Results: **PS028072.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028072.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 10:32
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:22:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.088	7.609	1961.4E6	715.4E6	727.274	754.149
		Target Compounds						
1)	T	Dalapon	2.538	2.613	3003.3E6	1186.4E6	659.130	695.648
2)	T	3,5-DICHL...	6.280	6.582	2590.8E6	925.3E6	654.738	691.848
3)	T	4-Nitroph...	6.882	7.142	1208.5E6	461.7E6	653.099	667.906
5)	T	DICAMBA	7.267	7.803	7562.6E6	2341.5E6	691.481	708.527
6)	T	MCPP	7.446	7.906	501.0E6	181.9E6	68.324	70.367m
7)	T	MCPA	7.591	8.145	735.2E6	328.9E6	69.332	71.466
8)	T	DICHLORPROP	7.951	8.505	1891.0E6	671.2E6	655.745	716.397
9)	T	2,4-D	8.173	8.832	2290.2E6	688.4E6	675.862	690.398
10)	T	Pentachlo...	8.459	9.343	27891.5E6	9731.4E6	704.831	759.906
11)	T	2,4,5-TP ...	9.025	9.719	11290.4E6	3489.8E6	699.065	764.523
12)	T	2,4,5-T	9.310	10.134	11510.9E6	3041.4E6	689.007	739.570
13)	T	2,4-DB	9.872	10.695	1807.0E6	336.9E6	686.325	659.608
14)	T	DINOSEB	11.046	11.068	7522.3E6	2303.5E6	683.423	684.574
15)	T	Picloram	10.863	12.140	15297.2E6	2959.8E6	687.041	649.527
16)	T	DCPA	11.346	12.099	12788.4E6	3546.1E6	691.698	764.055

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sample Results: **PS028072.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028072.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 10:32
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

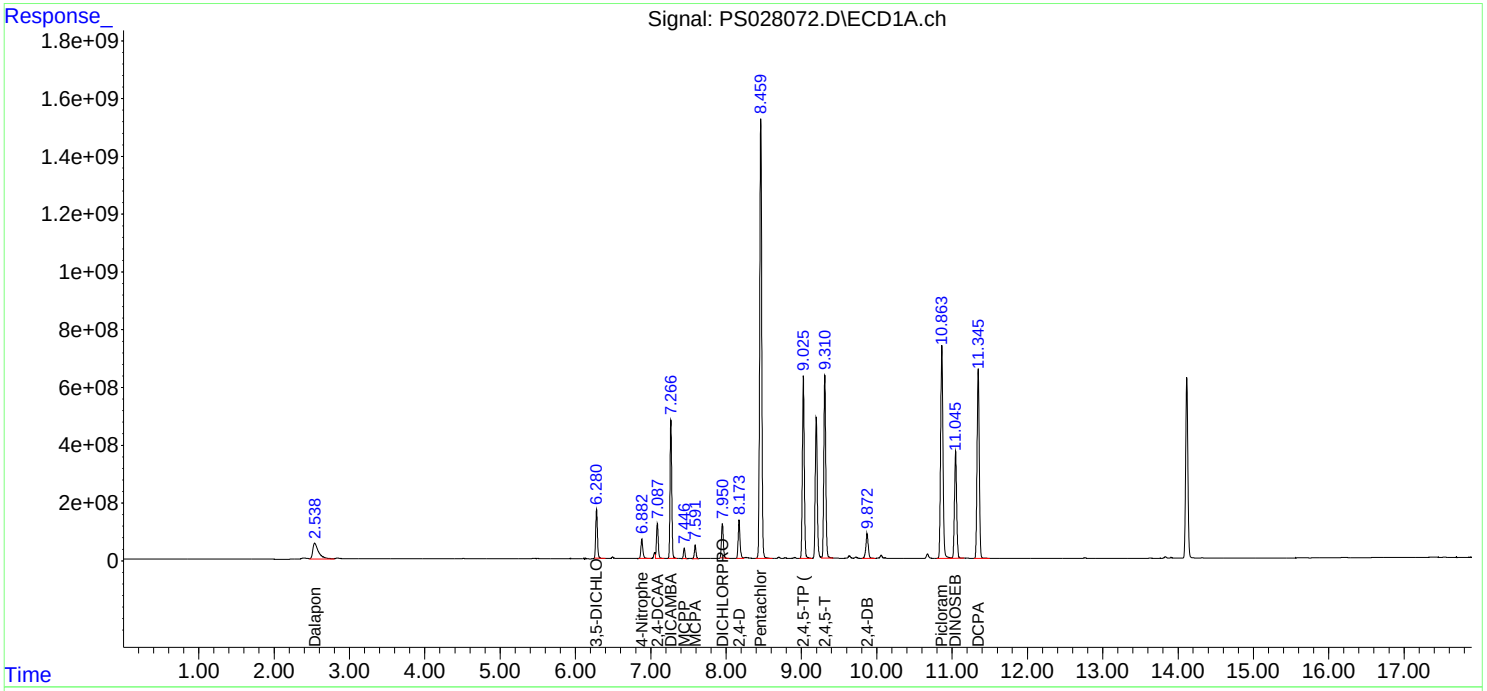
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

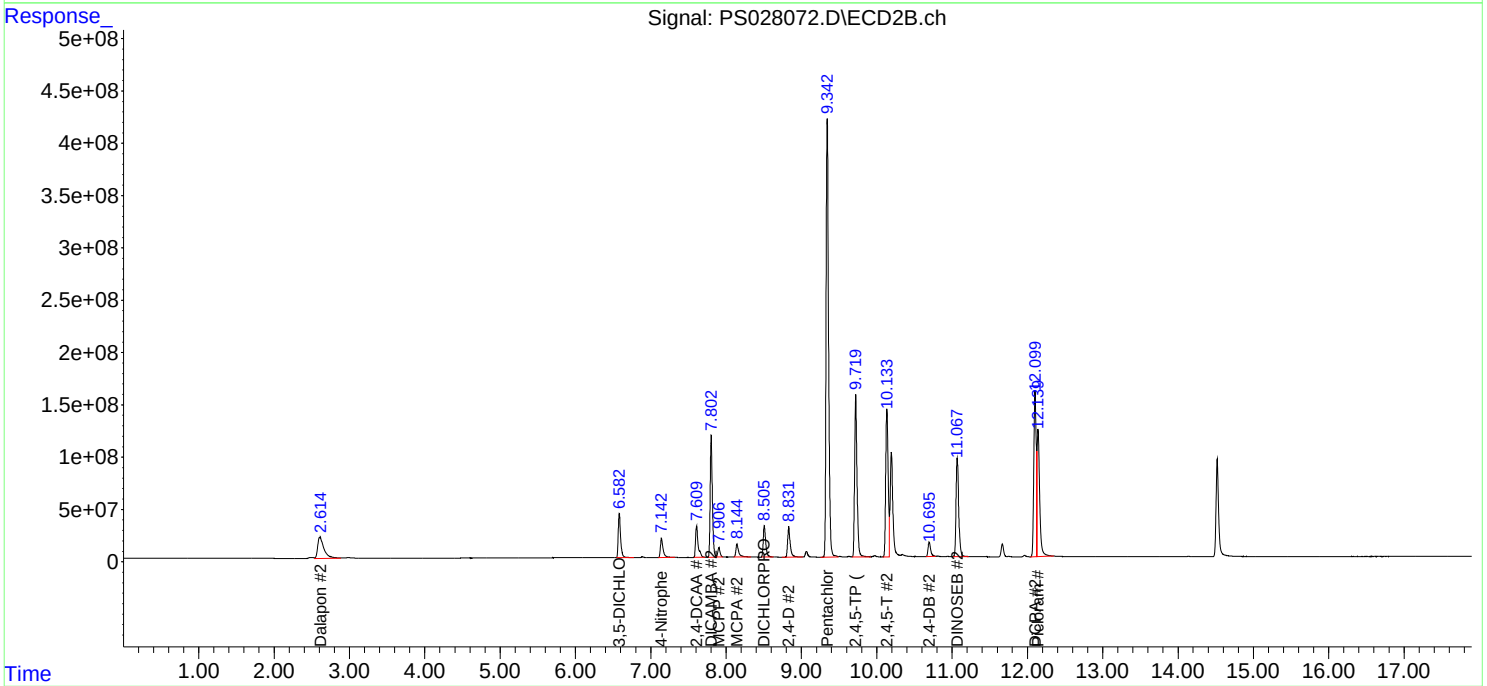
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:22:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PS028076.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 17:17 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.09	7.09	6.99	7.19	0.00
2,4-D	8.18	8.18	8.08	8.28	0.00
2,4,5-TP(Silvex)	9.03	9.03	8.93	9.13	0.00

Raw Data: **PS028076.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/23/2024 10/23/2024

Continuing Calib Time: 17:17 **Initial Calibration Time(s):** 11:28 13:04

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.61	7.61	7.51	7.71	0.00
2,4-D	8.83	8.84	8.74	8.94	0.01
2,4,5-TP(Silvex)	9.72	9.73	9.63	9.83	0.01

Raw Data: **PS028076.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028076.D **Time Analyzed:** 17:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.029	8.929	9.129	715.650	712.500	0.4
2,4-D	8.176	8.077	8.277	699.590	705.000	-0.8
2,4-DCAA	7.090	6.991	7.191	733.900	750.000	-2.1

Raw Data: **PS028076.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/23/2024 10/23/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028076.D **Time Analyzed:** 17:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.719	9.625	9.825	743.740	712.500	4.4
2,4-D	8.829	8.737	8.937	729.960	705.000	3.5
2,4-DCAA	7.606	7.514	7.714	729.190	750.000	-2.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028076.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:17
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:26:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.090	7.606	1979.3E6	691.8E6	733.905	729.193
		Target Compounds						
1)	T	Dalapon	2.538	2.602	3039.3E6	1169.6E6	667.033	685.815
2)	T	3,5-DICHL...	6.281	6.577	2625.4E6	949.1E6	663.473	709.631
3)	T	4-Nitroph...	6.884	7.140	1233.4E6	450.7E6	666.533	651.949
5)	T	DICAMBA	7.269	7.799	7684.1E6	2343.0E6	702.590	708.983
6)	T	MCPP	7.448	7.903	524.8E6	185.9E6	71.567	71.906
7)	T	MCPA	7.593	8.142	748.9E6	343.1E6	70.625	74.550
8)	T	DICHLORPROP	7.953	8.505	1970.9E6	646.8E6	683.468	690.278
9)	T	2,4-D	8.176	8.829	2370.5E6	727.9E6	699.587	729.961
10)	T	Pentachlo...	8.462	9.341	28327.8E6	9017.3E6	715.854	704.143
11)	T	2,4,5-TP ...	9.029	9.719	11558.3E6	3394.9E6	715.650	743.738
12)	T	2,4,5-T	9.312	10.129	11866.9E6	2996.6E6	710.314	728.667
13)	T	2,4-DB	9.875	10.691	1852.9E6	356.0E6	703.730	697.072
14)	T	DINOSEB	11.050	11.065	7695.2E6	2352.7E6	699.127	699.195
15)	T	Picloram	10.866	12.141	15609.5E6	3474.0E6	701.067	762.385
16)	T	DCPA	11.349	12.096	13154.8E6	3350.1E6	711.516	721.830

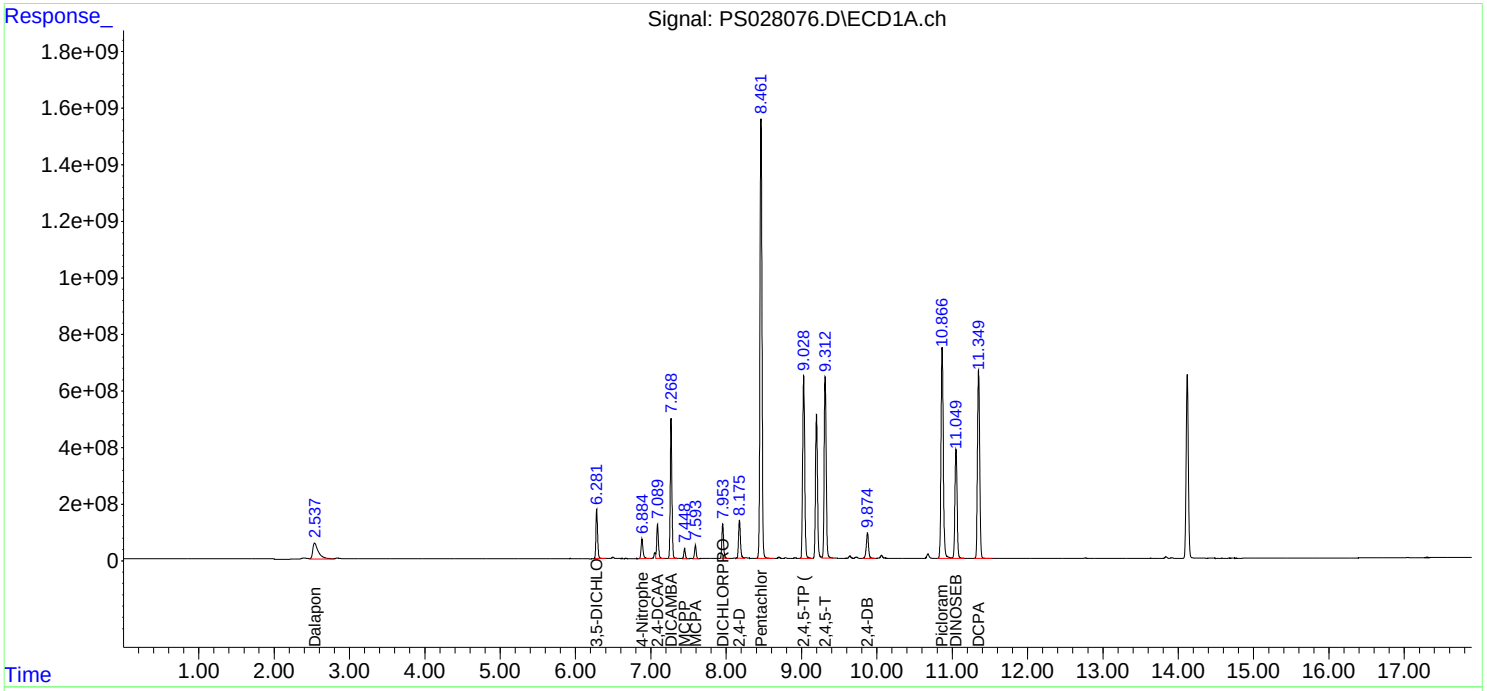
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

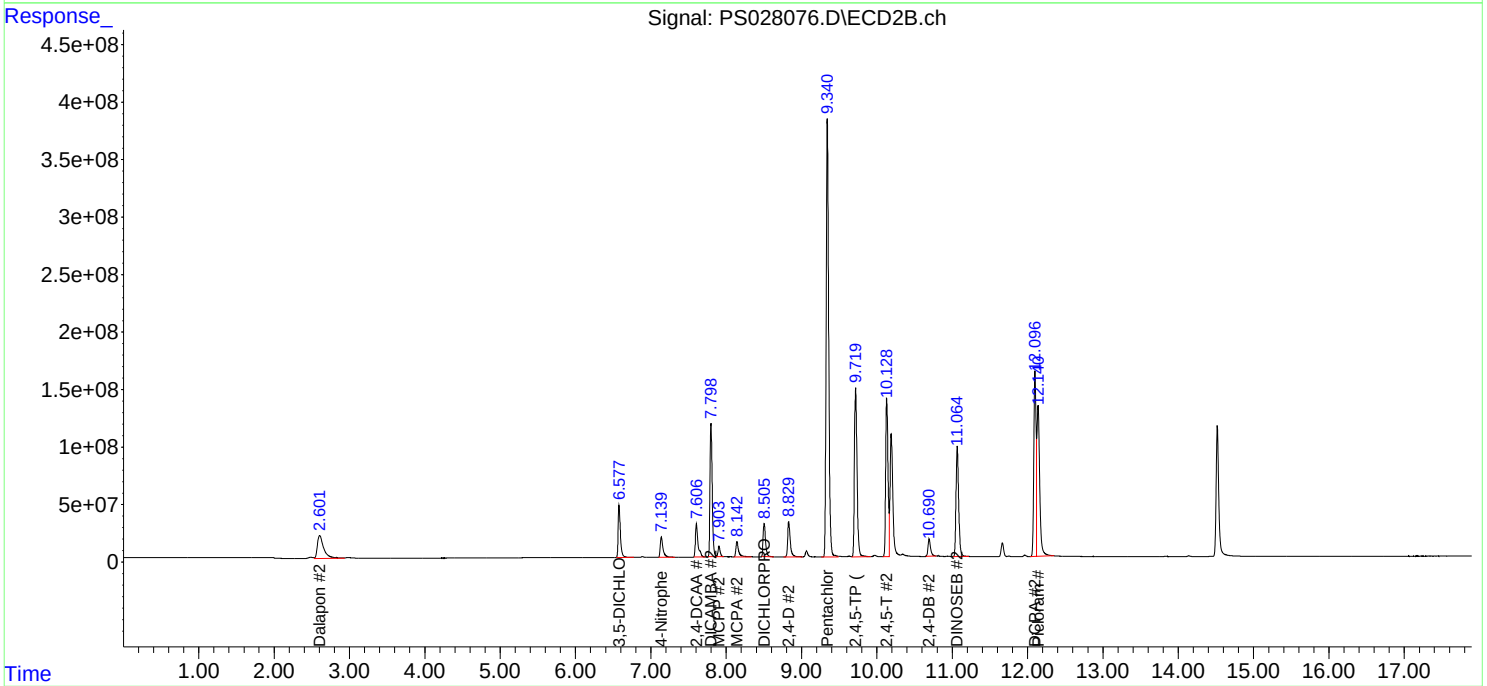
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028076.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:17
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:26:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/23/2024 10/23/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	10/23/2024	11:04	PS028007.D	7.09	0.00
HSTDICC200	HSTDICC200	10/23/2024	11:28	PS028008.D	7.09	0.00
HSTDICC500	HSTDICC500	10/23/2024	11:52	PS028009.D	7.09	0.00
HSTDICC750	HSTDICC750	10/23/2024	12:16	PS028010.D	7.09	0.00
HSTDICC1000	HSTDICC1000	10/23/2024	12:40	PS028011.D	7.09	0.00
HSTDICC1500	HSTDICC1500	10/23/2024	13:04	PS028012.D	7.09	0.00
I.BLK	I.BLK	10/24/2024	11:01	PS028035.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	11:25	PS028036.D	7.09	0.00
PB164378BL	PB164378BL	10/24/2024	17:09	PS028037.D	7.09	0.00
PB164378BS	PB164378BS	10/24/2024	17:33	PS028038.D	7.09	0.00
WB-301-BOT	P4397-06	10/24/2024	18:45	PS028041.D	7.09	0.00
WB-301-BOTMS	P4397-06MS	10/24/2024	19:09	PS028042.D	7.09	0.00
WB-301-BOTMSD	P4397-06MSD	10/24/2024	19:32	PS028043.D	7.09	0.00
I.BLK	I.BLK	10/24/2024	20:44	PS028046.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	21:08	PS028047.D	7.09	0.00
I.BLK	I.BLK	10/28/2024	10:08	PS028071.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	10:32	PS028072.D	7.09	0.00
PB164261TB	PB164261TB	10/28/2024	13:11	PS028073.D	7.09	0.00
I.BLK	I.BLK	10/28/2024	13:59	PS028075.D	7.09	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	17:17	PS028076.D	7.09	0.00

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Fax : 908 789 8922

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4397

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/23/2024 10/23/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	10/23/2024	11:04	PS028007.D	7.62	0.00
HSTDICC200	HSTDICC200	10/23/2024	11:28	PS028008.D	7.61	0.00
HSTDICC500	HSTDICC500	10/23/2024	11:52	PS028009.D	7.62	0.00
HSTDICC750	HSTDICC750	10/23/2024	12:16	PS028010.D	7.61	0.00
HSTDICC1000	HSTDICC1000	10/23/2024	12:40	PS028011.D	7.62	0.00
HSTDICC1500	HSTDICC1500	10/23/2024	13:04	PS028012.D	7.61	0.00
I.BLK	I.BLK	10/24/2024	11:01	PS028035.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	11:25	PS028036.D	7.61	0.00
PB164378BL	PB164378BL	10/24/2024	17:09	PS028037.D	7.61	0.00
PB164378BS	PB164378BS	10/24/2024	17:33	PS028038.D	7.61	0.00
WB-301-BOT	P4397-06	10/24/2024	18:45	PS028041.D	7.61	0.00
WB-301-BOTMS	P4397-06MS	10/24/2024	19:09	PS028042.D	7.61	0.00
WB-301-BOTMSD	P4397-06MSD	10/24/2024	19:32	PS028043.D	7.61	0.00
I.BLK	I.BLK	10/24/2024	20:44	PS028046.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/24/2024	21:08	PS028047.D	7.61	0.00
I.BLK	I.BLK	10/28/2024	10:08	PS028071.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	10:32	PS028072.D	7.61	0.00
PB164261TB	PB164261TB	10/28/2024	13:11	PS028073.D	7.61	0.00
I.BLK	I.BLK	10/28/2024	13:59	PS028075.D	7.61	0.00
HSTDCCC750	HSTDCCC750	10/28/2024	17:17	PS028076.D	7.61	0.00

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164378BS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Lab Sample ID: PB164378BS **Date(s) Analyzed:** 10/24/2024 10/24/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	4.90	9.7
	2	9.72	9.67	9.77	5.40	
2,4-D	1	8.18	8.13	8.23	4.90	2
	2	8.84	8.79	8.89	5.00	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-301-BOTMS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Lab Sample ID: P4397-06MS **Date(s) Analyzed:** 10/24/2024 10/24/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	47.3	76.6
	2	9.73	9.68	9.78	106	
2,4-D	1	8.18	8.13	8.23	49.0	11.9
	2	8.84	8.79	8.89	55.2	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-301-BOTMSD

Contract: PORT06

Lab Code: CHEM **Case No.:** P4397 **SAS No.:** P4397 **SDG NO.:** P4397

Lab Sample ID: P4397-06MSD **Date(s) Analyzed:** 10/24/2024 10/24/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.18	8.13	8.23	49.2	14
	2	8.83	8.78	8.88	56.6	
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	47.5	81.6
	2	9.73	9.68	9.78	113	

QC SAMPLE DATA

Raw Data: **PS028037.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164378BL	SDG No.:	P4397
Lab Sample ID:	PB164378BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028037.D	1	10/24/24 11:28	10/24/24 17:09	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	516		70 (39) - 130 (175)	103%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 17:09
Operator : AR\AJ
Sample : PB164378BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164378BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:41:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.093	7.609	1374.5E6	489.7E6	509.646m	516.148
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 17:09
Operator : AR\AJ
Sample : PB164378BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

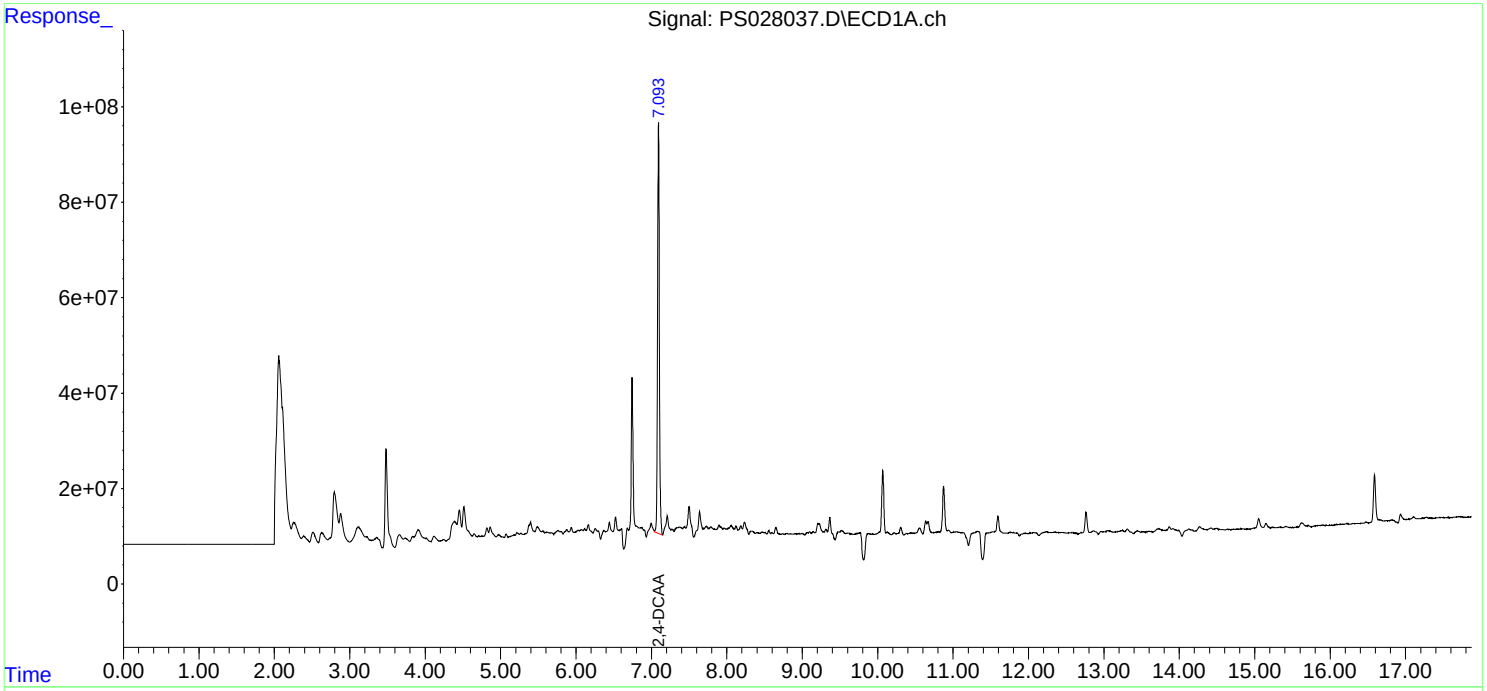
Instrument :
ECD_S
ClientSampleId :
PB164378BL

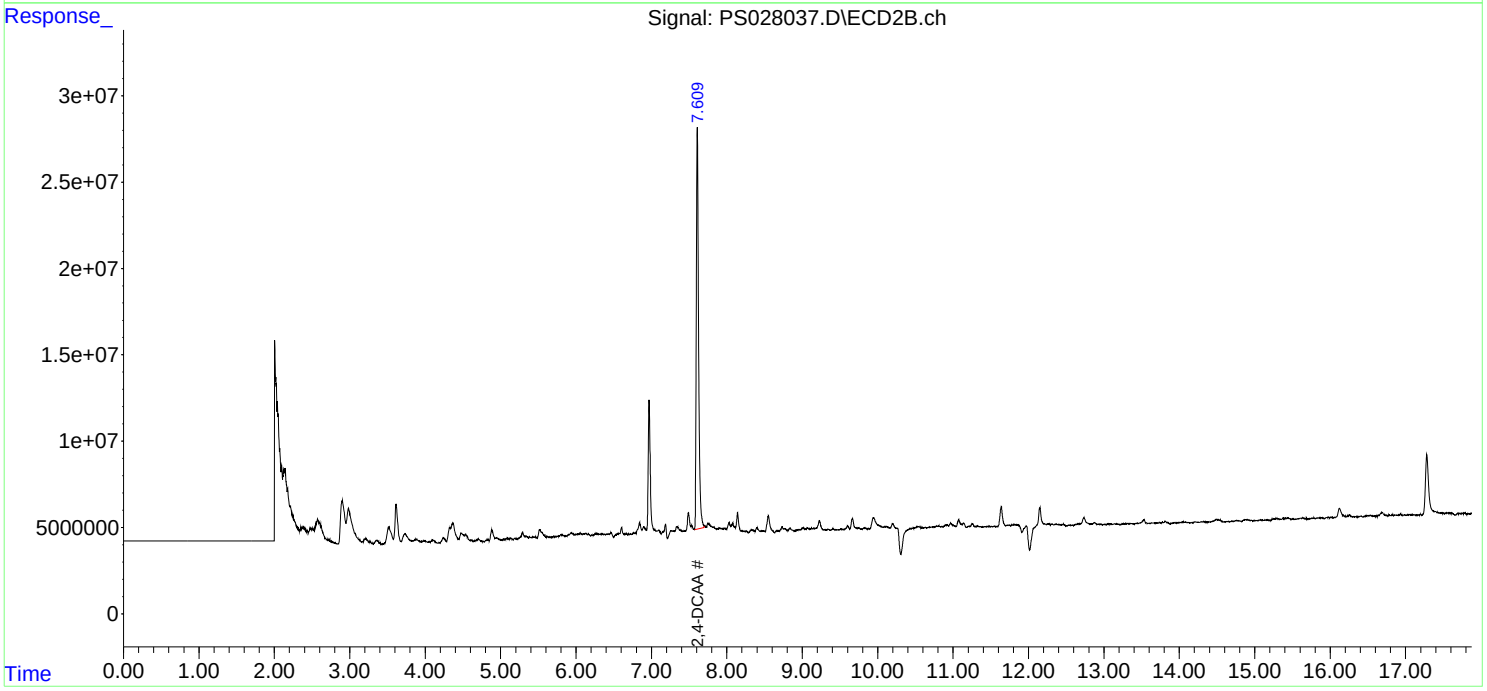
Manual Integrations APPROVED

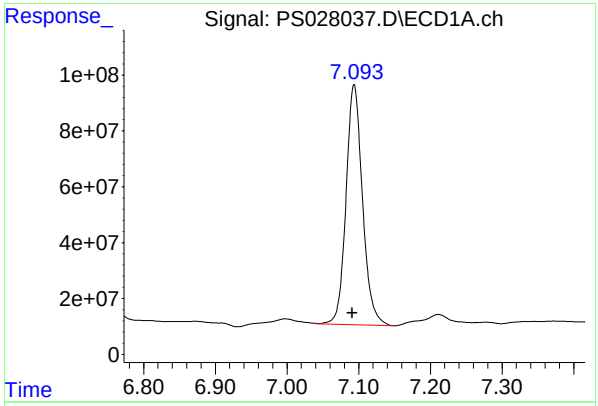
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:41:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







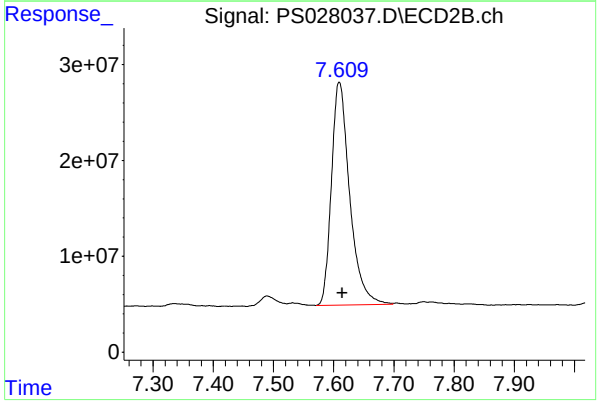
#4 2,4-DCAA

R.T.: 7.093 min
Delta R.T.: 0.002 mi
Response: 1374498746
Conc: 509.65 ng/m

Instrument :
ECD_S
ClientSampleId :
PB164378BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024



#4 2,4-DCAA

R.T.: 7.609 min
Delta R.T.: -0.005 min
Response: 489657956
Conc: 516.15 ng/ml

Raw Data: **PS028007.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/23/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/23/24
Client Sample ID:	PIBLK-PS028007.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028007.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028007.D	1		10/23/24	PS102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	489		70 (39) - 130 (175)	98%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 11:04
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 13:27:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.091	7.616	1317.6E6	437.0E6	488.565	460.591
	Target Compounds						

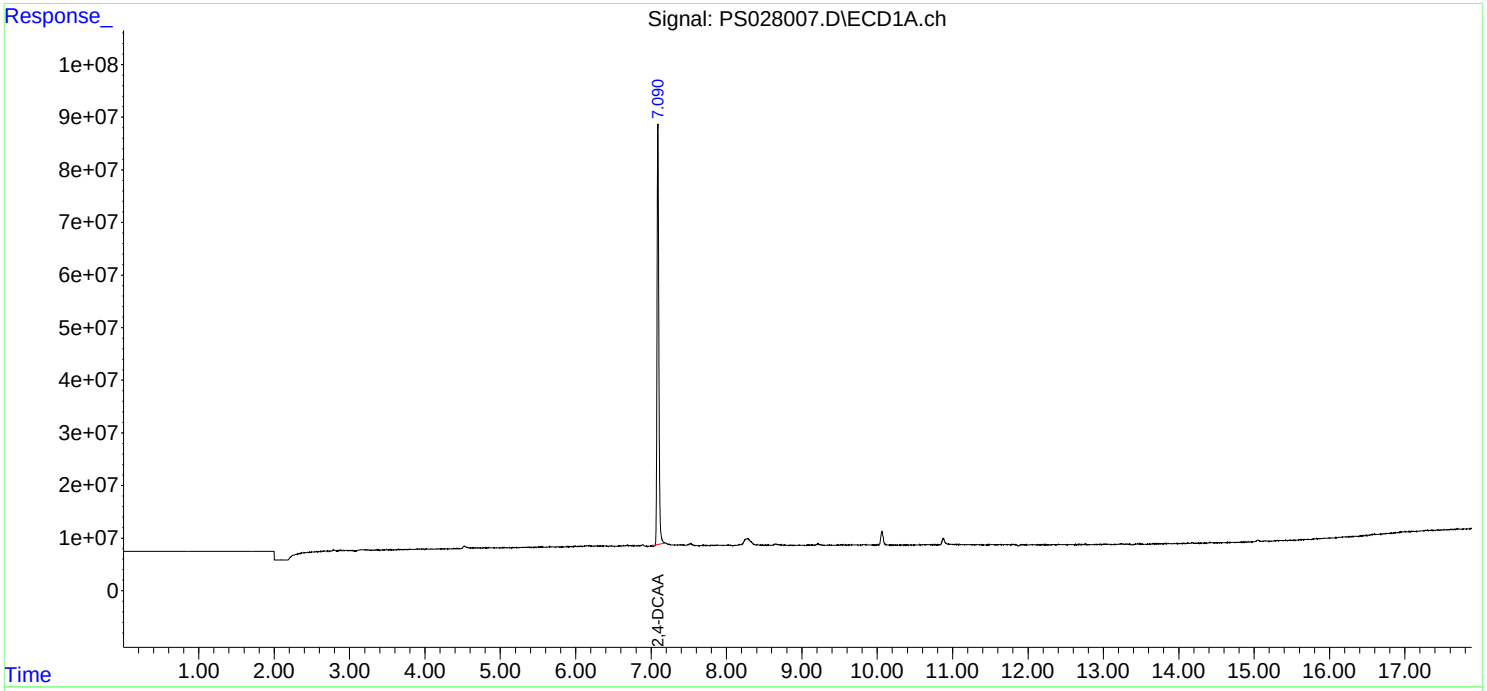
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

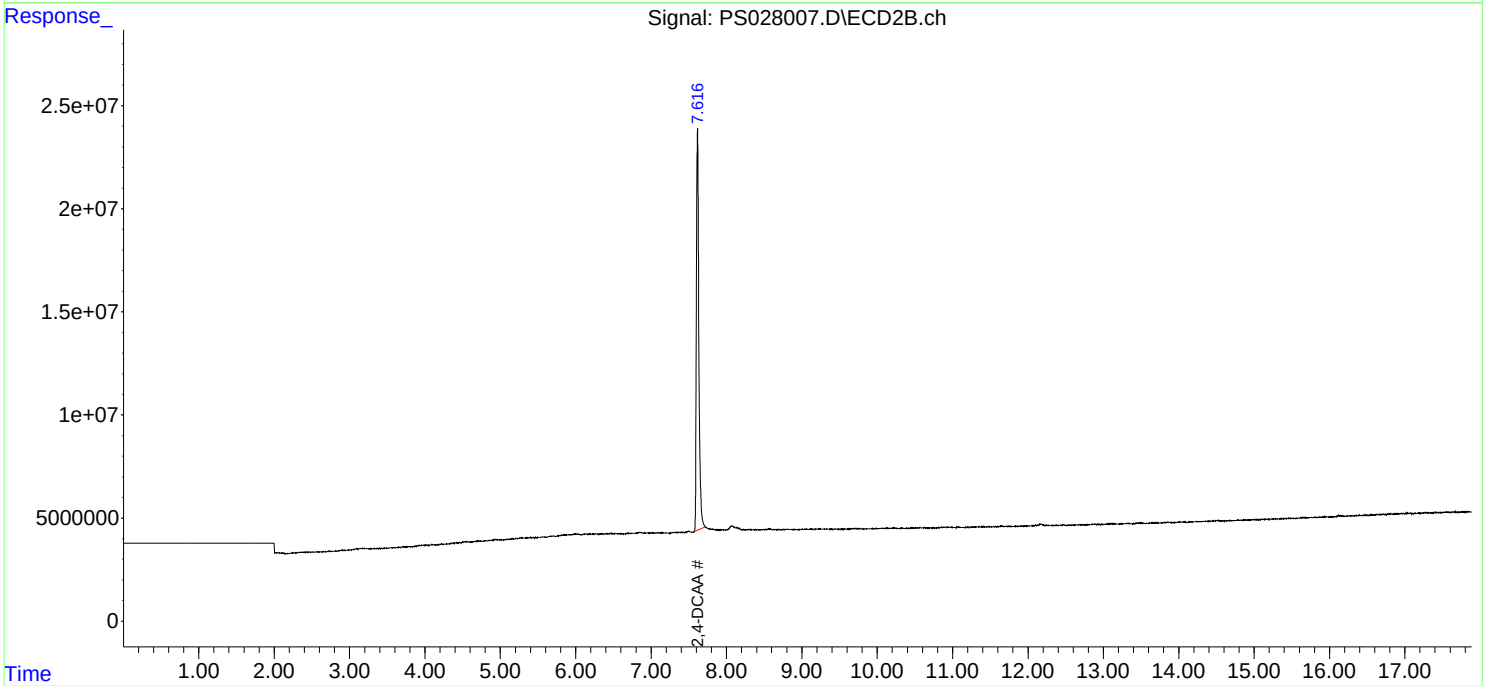
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102324\
Data File : PS028007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 11:04
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

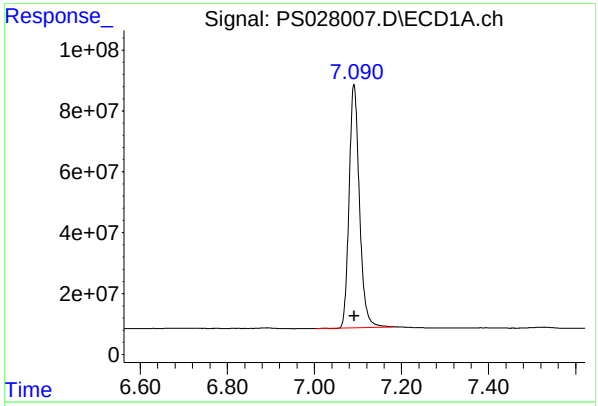
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 13:27:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



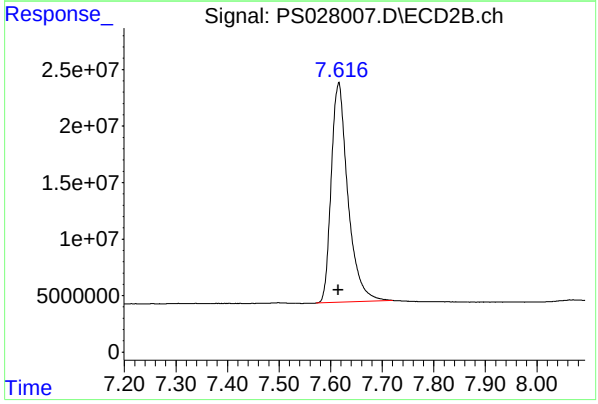




#4 2,4-DCAA

R.T.: 7.091 min
Delta R.T.: 0.000 min
Response: 1317642979
Conc: 488.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.616 min
Delta R.T.: 0.001 min
Response: 436952671
Conc: 460.59 ng/ml

Raw Data: **PS028035.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	PIBLK-PS028035.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028035.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028035.D	1		10/24/24	PS102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	508		70 (39) - 130 (175)	102%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 11:01
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:40:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.090	7.613	1369.0E6	464.2E6	507.593m	489.266
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 11:01
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

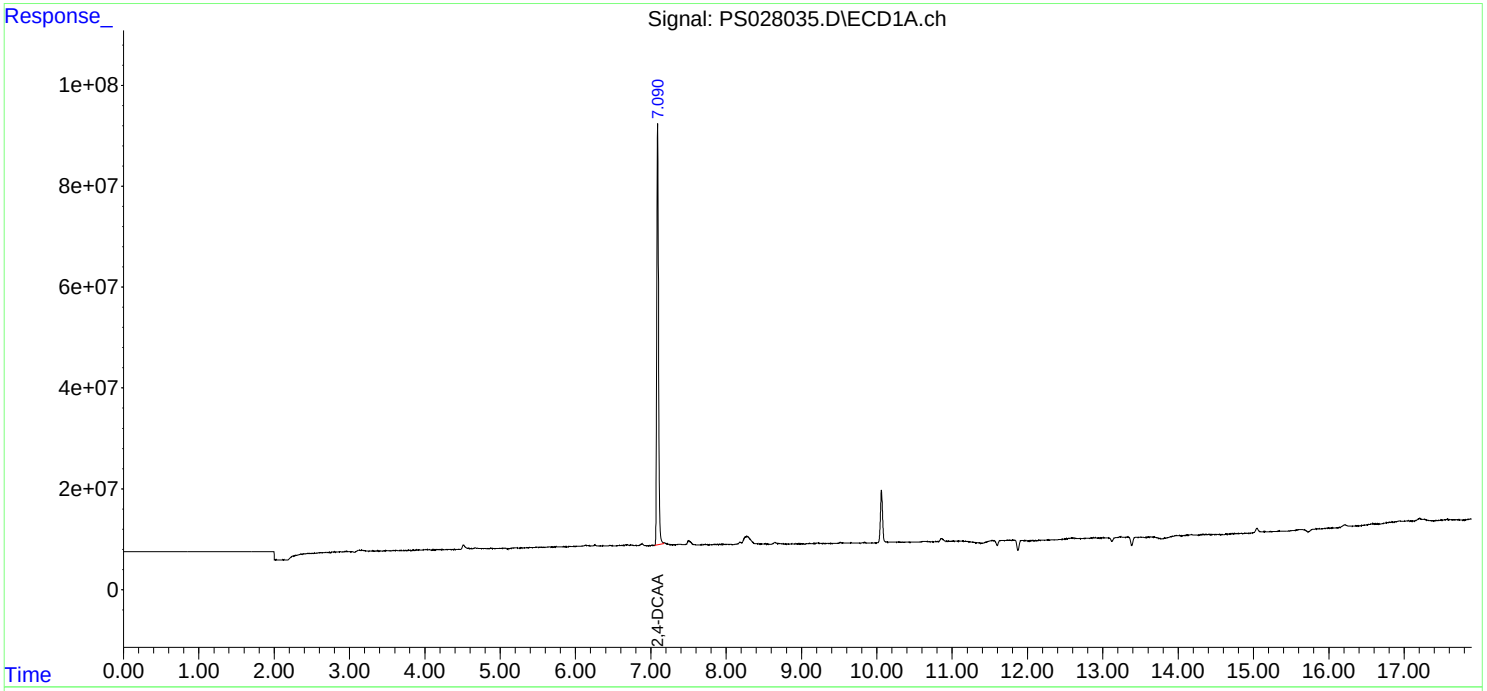
Instrument :
ECD_S
ClientSampleId :
I.BLK

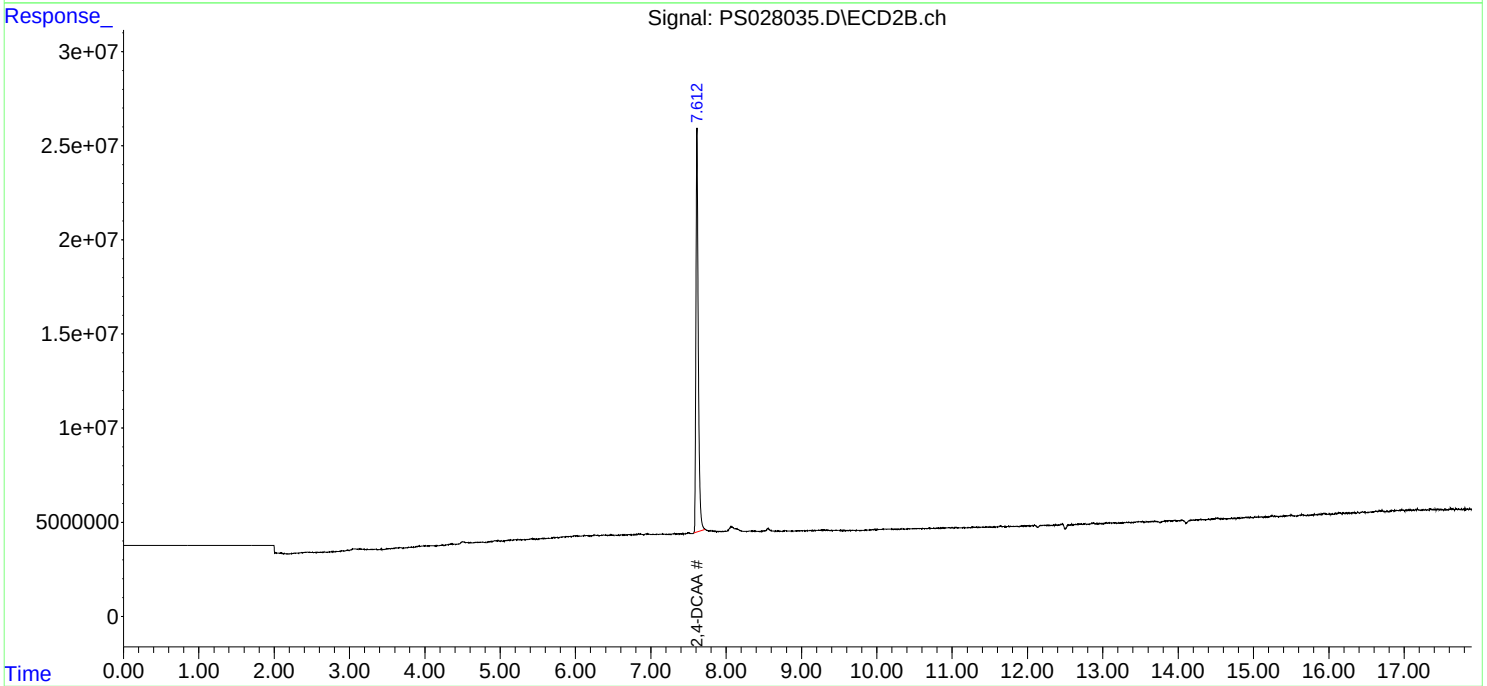
Manual Integrations APPROVED

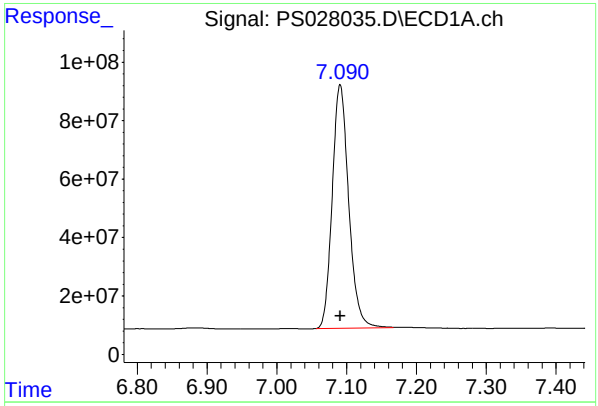
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:40:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







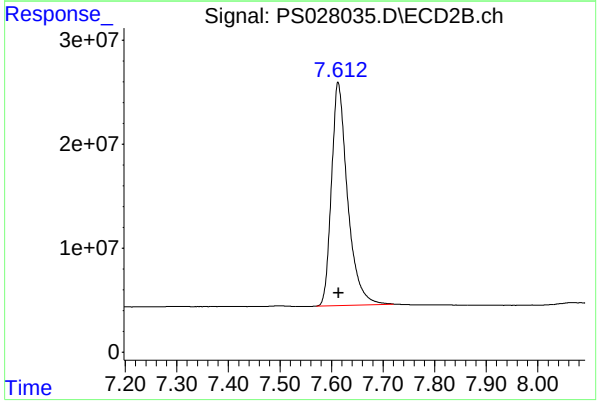
#4 2,4-DCAA

R.T.: 7.090 min
Delta R.T.: 0.000 min
Response: 1368959582
Conc: 507.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024



#4 2,4-DCAA

R.T.: 7.613 min
Delta R.T.: -0.002 min
Response: 464155644
Conc: 489.27 ng/ml

Raw Data: **PS028046.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	PIBLK-PS028046.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028046.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028046.D	1		10/24/24	PS102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	506		70 (39) - 130 (175)	101%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 20:44
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:49:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.090	7.612	1365.9E6	454.5E6	506.449m	479.127
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 20:44
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

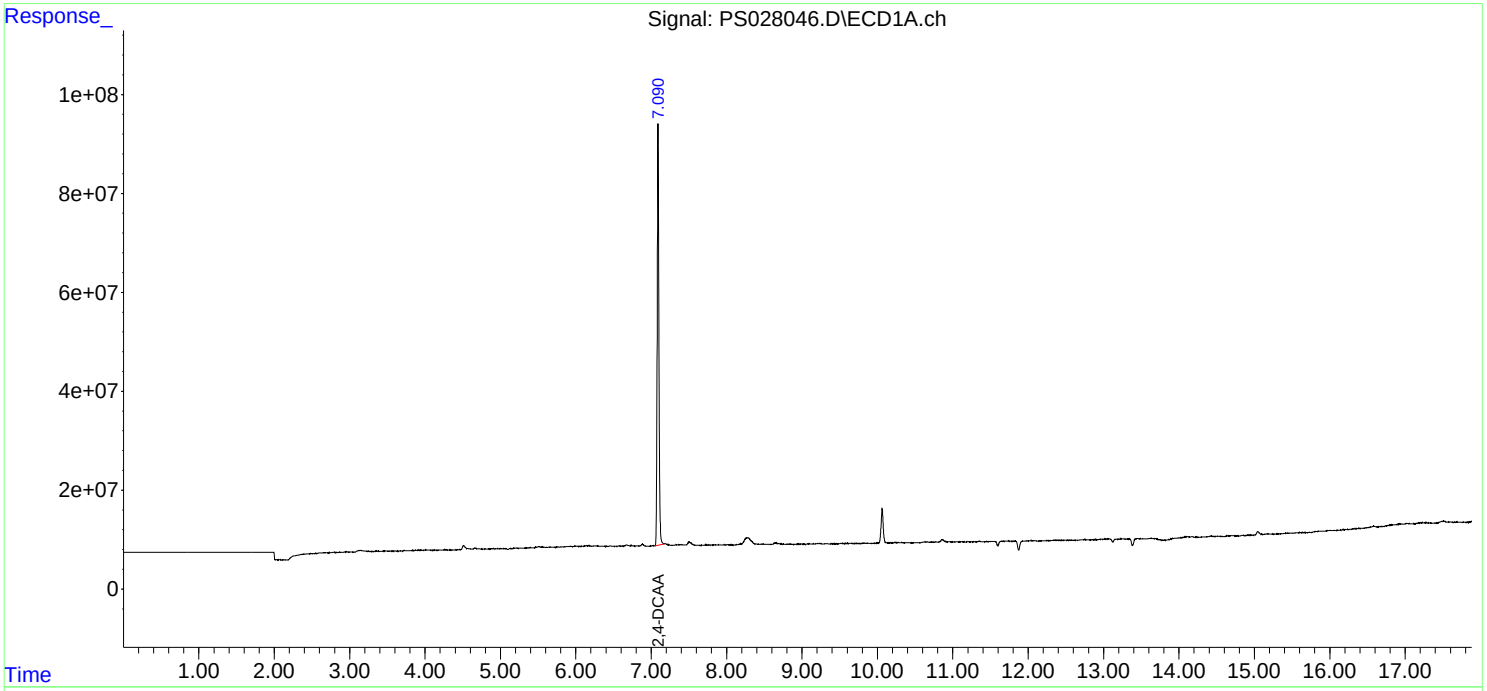
Instrument :
ECD_S
ClientSampleId :
I.BLK

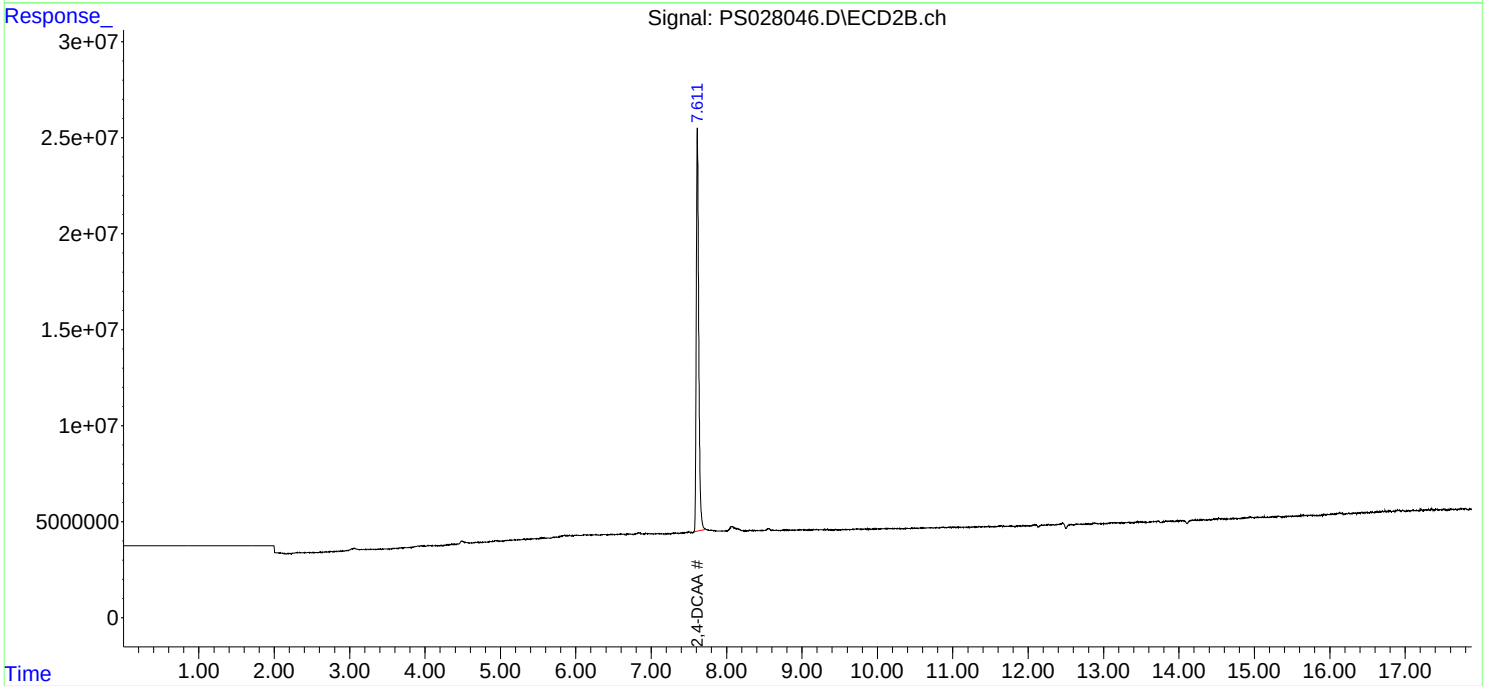
Manual Integrations APPROVED

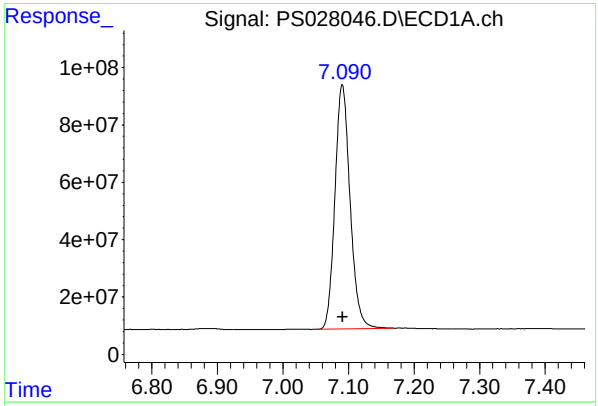
Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:49:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







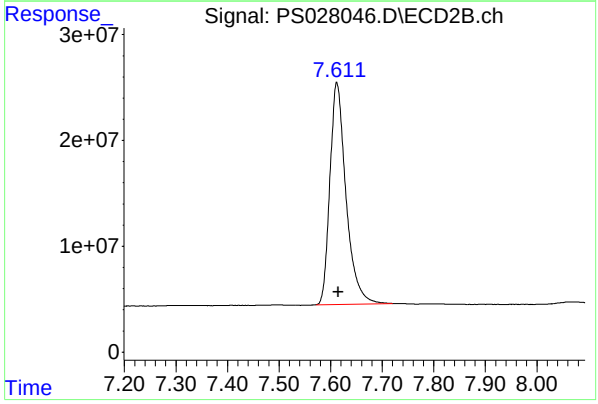
#4 2,4-DCAA

R.T.: 7.090 min
Delta R.T.: 0.000 min
Response: 1365875992
Conc: 506.45 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024



#4 2,4-DCAA

R.T.: 7.612 min
Delta R.T.: -0.002 min
Response: 454536852
Conc: 479.13 ng/ml

Raw Data: **PS028071.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/28/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/28/24
Client Sample ID:	PIBLK-PS028071.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028071.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028071.D	1		10/28/24	PS102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	501		70 (39) - 130 (175)	100%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Sample Results: **PS028071.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028071.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 10:08
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:22:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.087	7.608	1350.7E6	458.7E6	500.827m	483.464
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028071.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 10:08
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

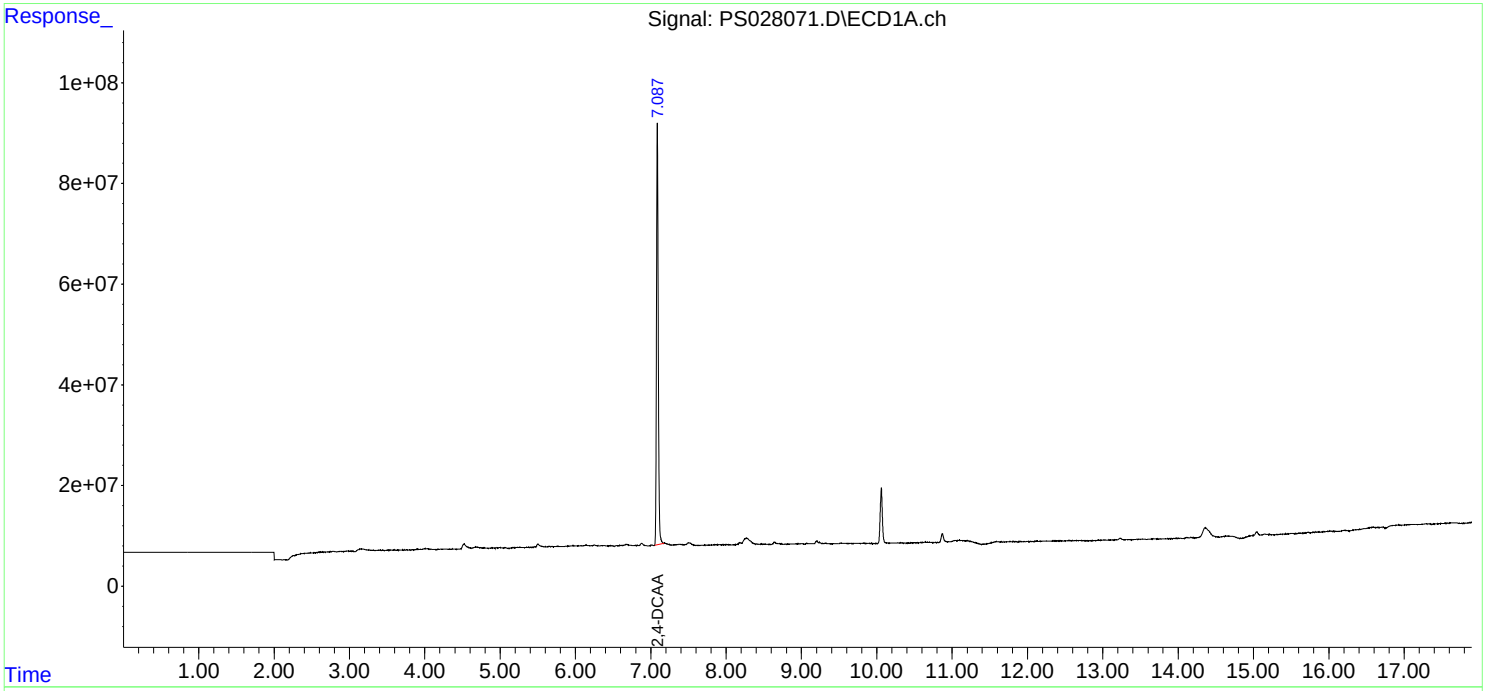
Instrument :
ECD_S
ClientSampleId :
I.BLK

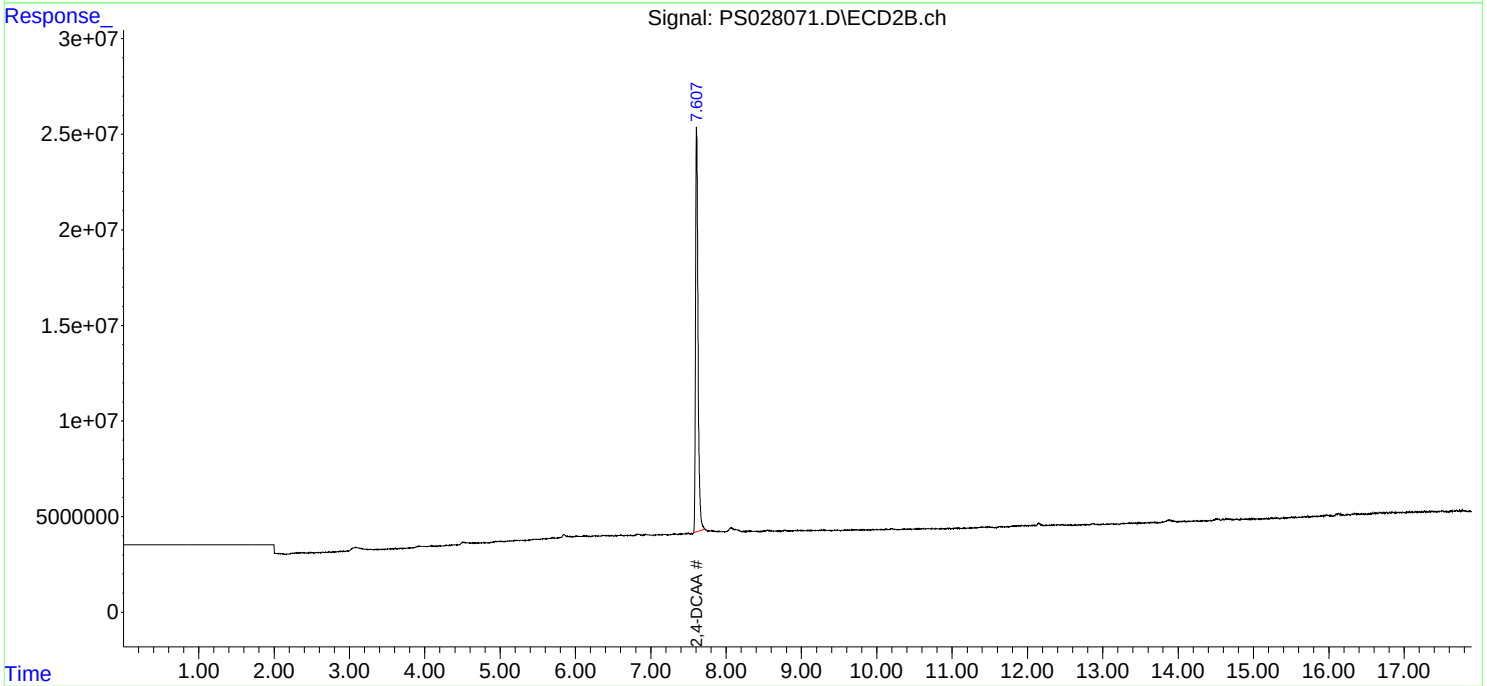
Manual Integrations APPROVED

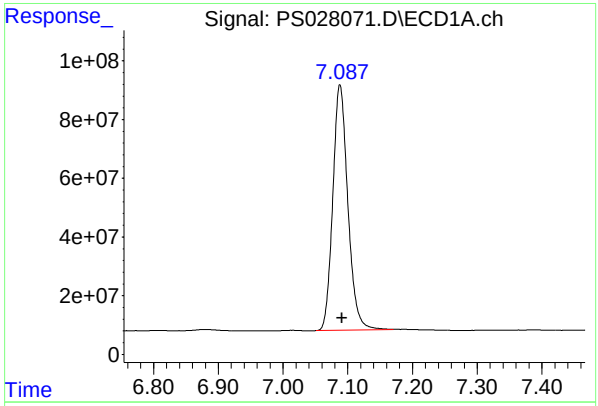
Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:22:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







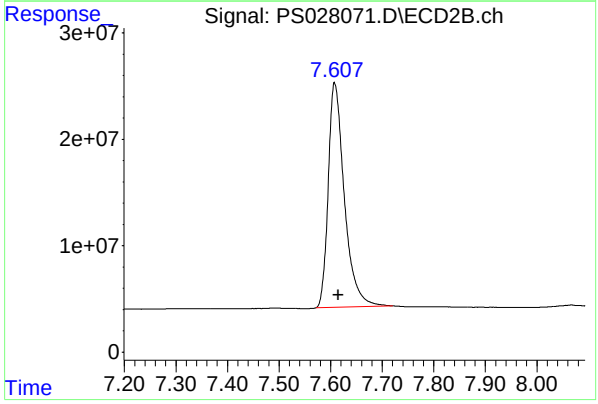
#4 2,4-DCAA

R.T.: 7.087 min
Delta R.T.: -0.004 min
Response: 1350712363
Conc: 500.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



#4 2,4-DCAA

R.T.: 7.608 min
Delta R.T.: -0.006 min
Response: 458651955
Conc: 483.46 ng/ml

Raw Data: **PS028075.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/28/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/28/24
Client Sample ID:	PIBLK-PS028075.D	SDG No.:	P4397
Lab Sample ID:	I.BLK-PS028075.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028075.D	1		10/28/24	PS102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	508		70 (39) - 130 (175)	102%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028075.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 13:59
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:25:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.089	7.610	1371.3E6	396.1E6	508.447	417.553
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

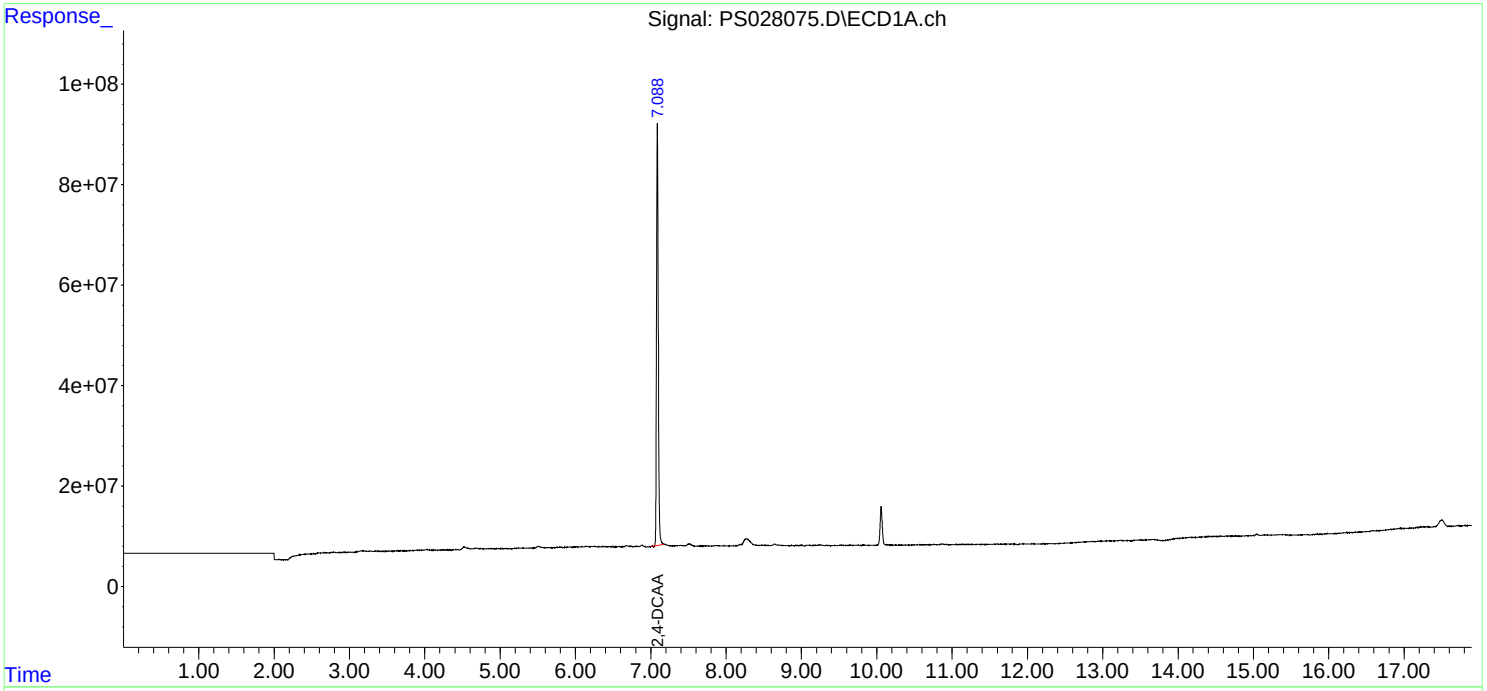
Sample Results: **PS028075.D**

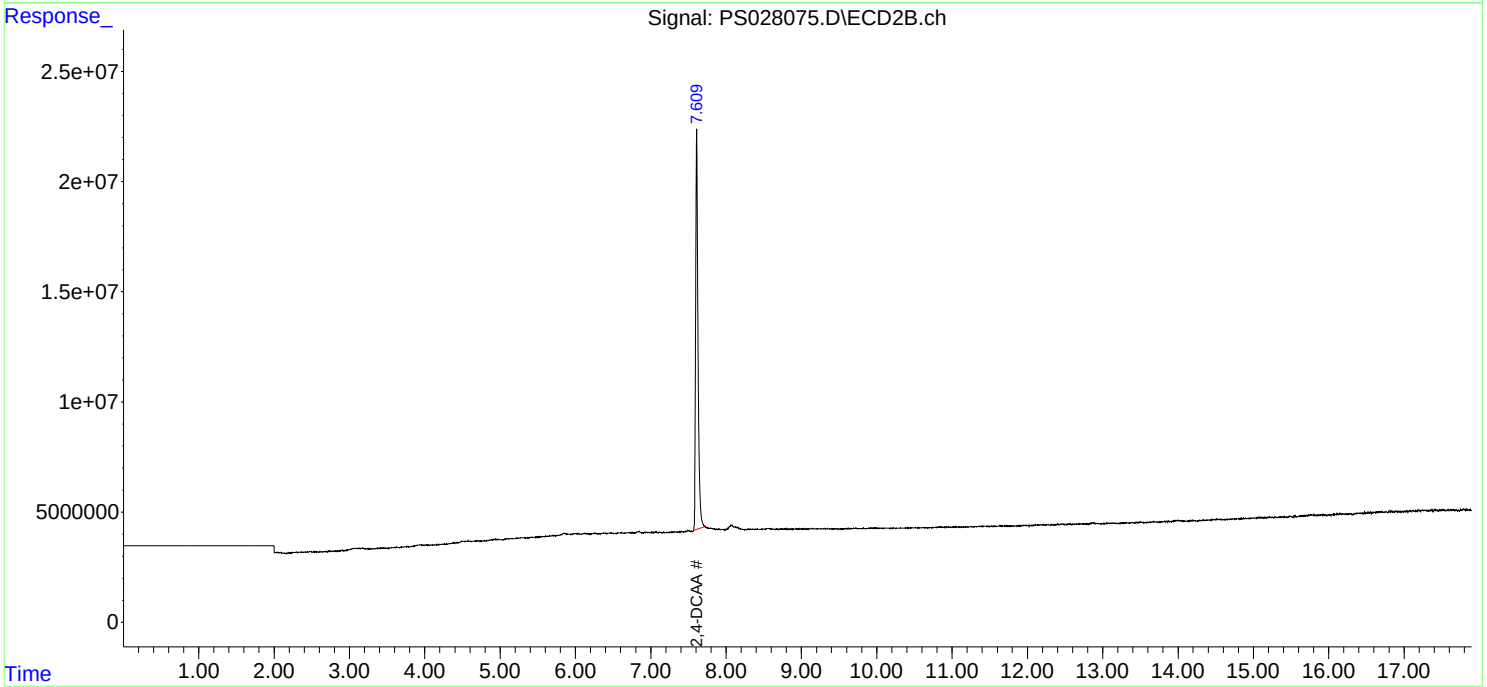
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102824\
Data File : PS028075.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 13:59
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

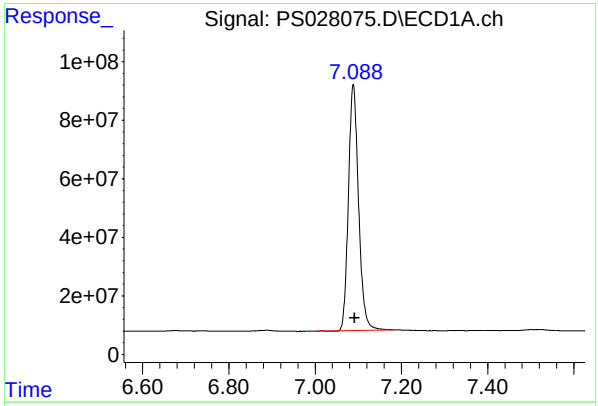
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 00:25:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



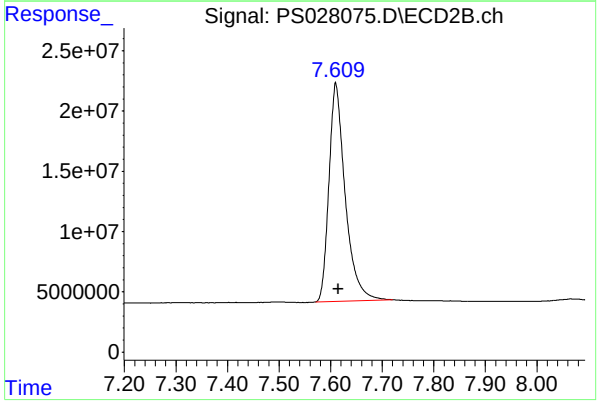




#4 2,4-DCAA

R.T.: 7.089 min
Delta R.T.: -0.003 min
Response: 1371263669
Conc: 508.45 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.610 min
Delta R.T.: -0.004 min
Response: 396123335
Conc: 417.55 ng/ml

Raw Data: **PS028038.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164378BS	SDG No.:	P4397
Lab Sample ID:	PB164378BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028038.D	1	10/24/24 11:28	10/24/24 17:33	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.00		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	542		70 (39) - 130 (175)	108%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PS028038.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 17:33
Operator : AR\AJ
Sample : PB164378BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164378BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:42:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.092	7.613	1366.0E6	513.7E6	506.494	541.517
		Target Compounds						
1)	T	Dalapon	2.539	2.612	2094.8E6	775.8E6	459.742	454.878
2)	T	3,5-DICHL...	6.284	6.586	1837.1E6	659.2E6	464.268	492.861
3)	T	4-Nitroph...	6.886	7.146	842.3E6	339.9E6	455.202	491.699
5)	T	DICAMBA	7.270	7.805	5231.5E6	1689.3E6	478.335	511.177
6)	T	MCPP	7.448	7.908	338.2E6	131.0E6	46.126	50.658
7)	T	MCPA	7.592	8.147	482.5E6	228.9E6	45.505	49.742
8)	T	DICHLORPROP	7.955	8.512	1377.6E6	488.7E6	477.724	521.599
9)	T	2,4-D	8.178	8.837	1661.3E6	496.6E6	490.275	498.000
10)	T	Pentachlo...	8.464	9.348	19935.8E6	6669.1E6	503.787	520.776
11)	T	2,4,5-TP ...	9.030	9.724	7884.8E6	2460.6E6	488.197	539.051
12)	T	2,4,5-T	9.315	10.137	8059.8E6	2165.9E6	482.435	526.673
13)	T	2,4-DB	9.877	10.699	1249.0E6	279.6E6	474.374	547.387
14)	T	DINOSEB	11.052	11.072	5258.5E6	1672.8E6	477.745	497.146
15)	T	Picloram	10.867	12.150	10639.9E6	1877.2E6	477.867	411.959
16)	T	DCPA	11.351	12.102	9048.8E6	2545.6E6	489.433	548.485

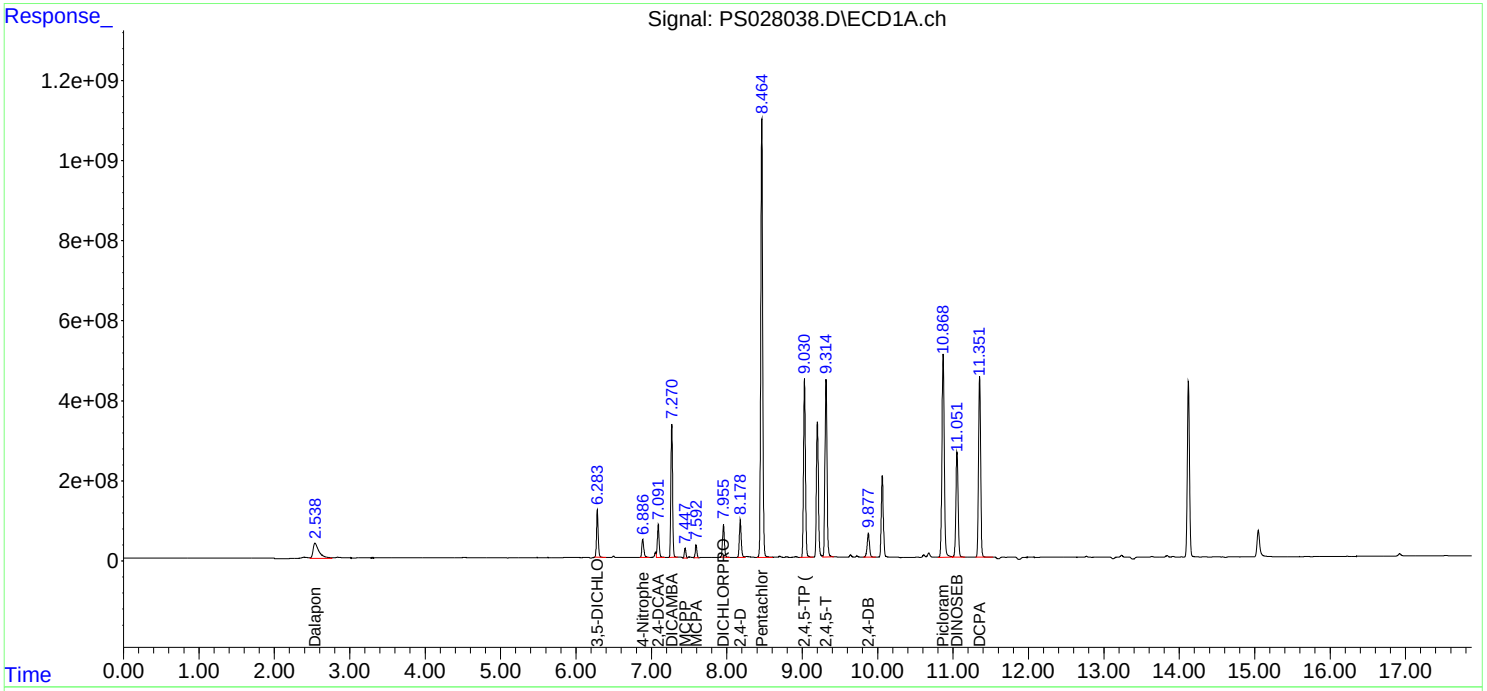
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

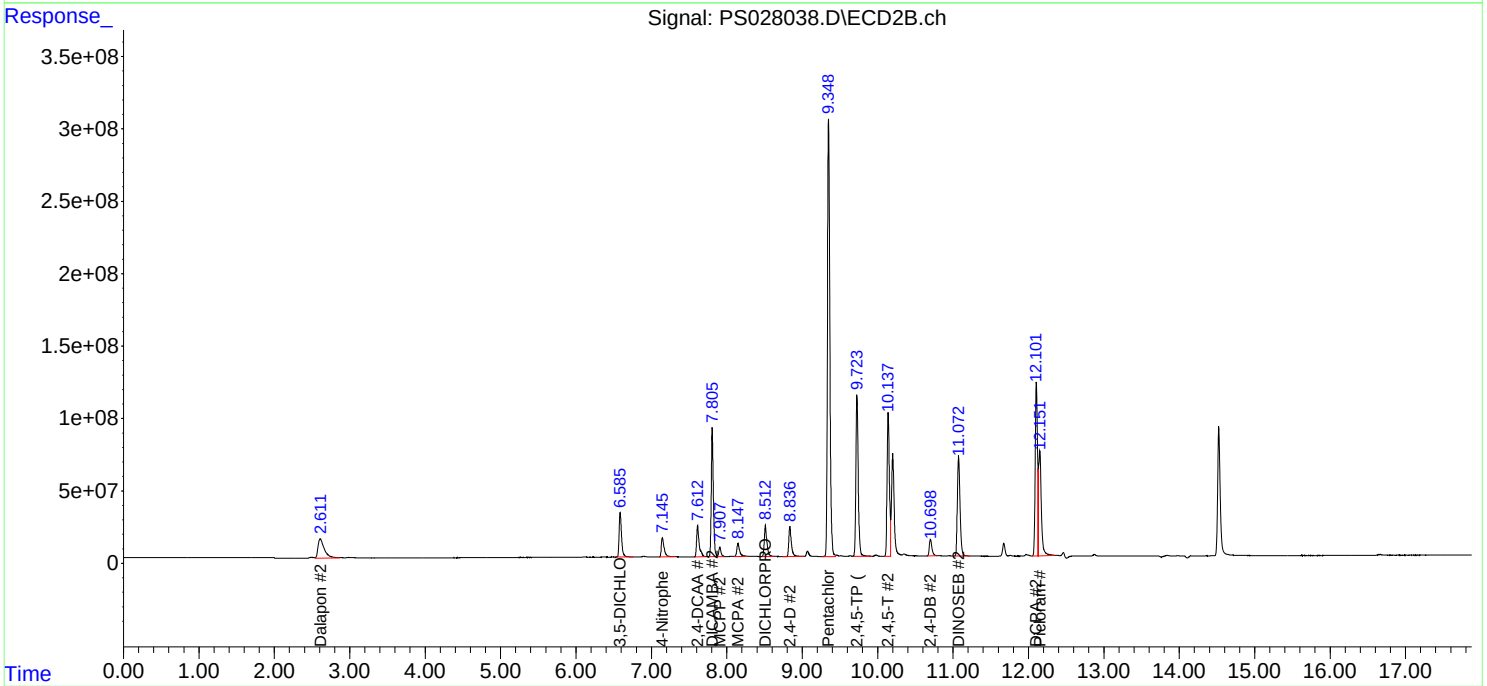
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 17:33
Operator : AR\AJ
Sample : PB164378BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164378BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:42:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PS028042.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-06MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028042.D	1	10/24/24 11:28	10/24/24 19:09	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	55.2		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	106	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	138	*	70 (39) - 130 (175)	28%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PS028042.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 19:09
Operator : AR\AJ
Sample : P4397-06MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-301-BOTMS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:46:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.091	7.612	372.5E6	108.3E6	138.132m	114.209
		Target Compounds						
1)	T	Dalapon	2.542	2.617	1501.3E6	593.4E6	329.484	347.931m
2)	T	3,5-DICHL...	6.283	6.585	1113.2E6	379.0E6	281.331	283.362
5)	T	DICAMBA	7.269	7.806	4487.4E6	1321.2E6	410.303	399.789
6)	T	MCPP	7.447	7.907	308.6E6	88714857	42.083m	34.319
7)	T	MCPA	7.591	8.144	392.5E6	197.2E6	37.010	42.856m
8)	T	DICHLORPROP	7.954	8.509	1244.3E6	447.1E6	431.484	477.210
9)	T	2,4-D	8.176	8.835	1660.6E6	550.3E6	490.057	551.913
10)	T	Pentachlo...	8.463	9.347	5387.2E6	1448.7E6	136.136	113.125
11)	T	2,4,5-TP ...	9.028	9.727	7631.5E6	4822.3E6	472.516	1056.448 #
12)	T	2,4,5-T	9.313	10.137	7507.8E6	2074.7E6	449.393	504.482
13)	T	2,4-DB	9.875	10.695	1031.4E6	207.3E6	391.725	405.788
14)	T	DINOSEB	11.050	11.072	984.3E6	285.6E6	89.429	84.881
15)	T	Picloram	10.865	12.144	8825.0E6	1858.8E6	396.357	407.909
16)	T	DCPA	11.349	12.104	9964.0E6	2828.9E6	538.930	609.515

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 19:09
Operator : AR\AJ
Sample : P4397-06MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

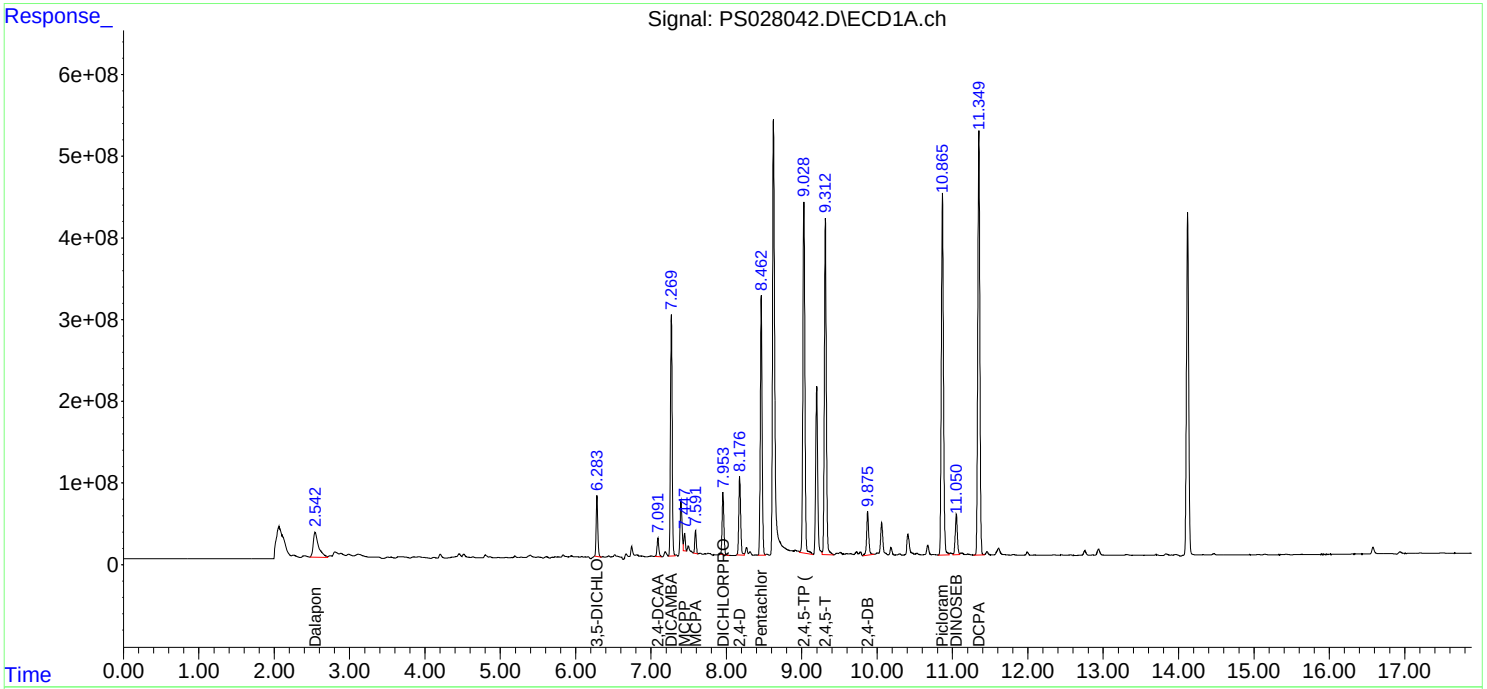
Instrument :
ECD_S
ClientSampleId :
WB-301-BOTMS

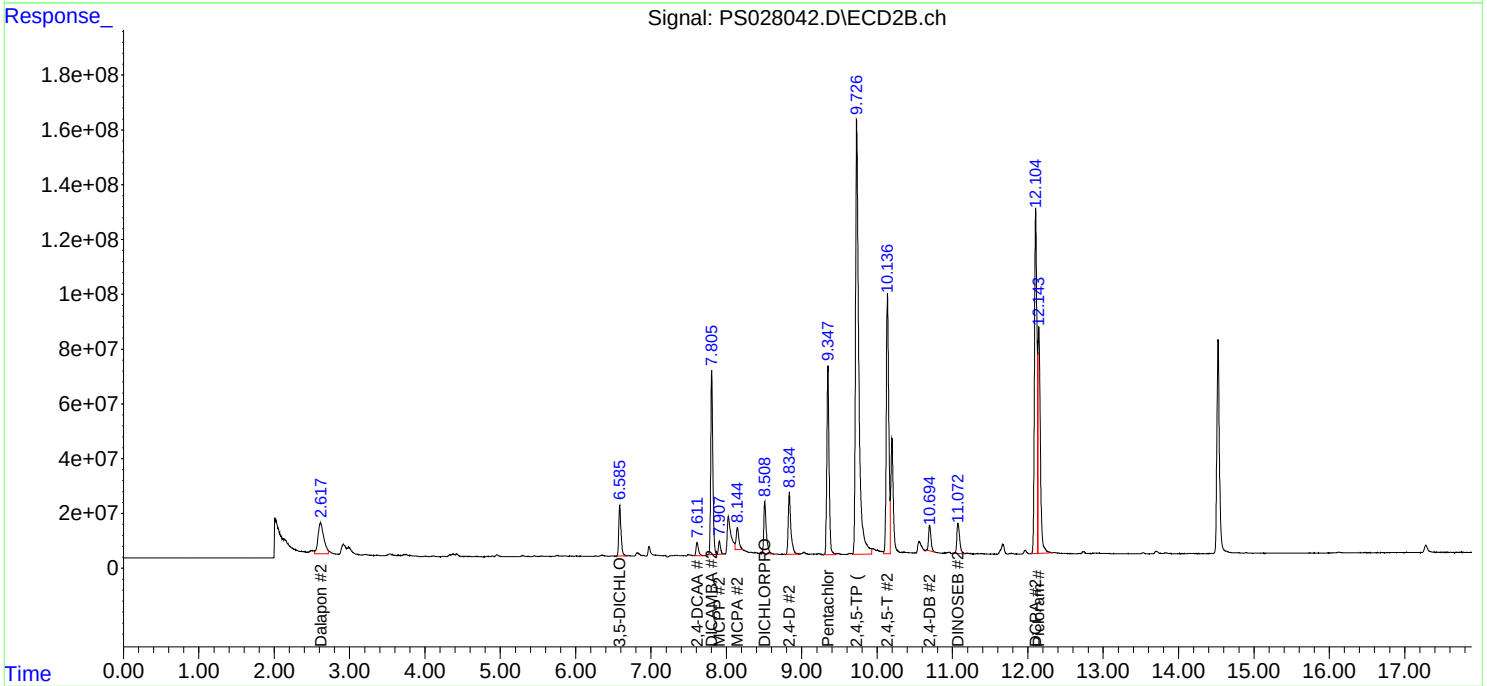
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:46:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PS028043.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-06MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028043.D	1	10/24/24 11:28	10/24/24 19:32	PB164378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	56.6		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	113	P	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	142	*	70 (39) - 130 (175)	28%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PS028043.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 19:32
Operator : AR\AJ
Sample : P4397-06MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-301-BOTMSD

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:47:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.091	7.612	382.8E6	105.5E6	141.953m	111.164
	Target Compounds						
1) T	Dalapon	2.541	2.604	1470.9E6	630.1E6	322.816	369.479m
2) T	3,5-DICHL...	6.283	6.584	1107.8E6	381.1E6	279.962	284.899
5) T	DICAMBA	7.269	7.805	4448.1E6	1363.8E6	406.710	412.682
6) T	MCPP	7.446	7.908	321.1E6	91444977	43.785m	35.375
7) T	MCPA	7.591	8.146	399.4E6	167.7E6	37.666	36.431m
8) T	DICHLORPROP	7.954	8.510	1249.2E6	460.5E6	433.203	491.502
9) T	2,4-D	8.176	8.834	1666.1E6	564.5E6	491.685	566.078
10) T	Pentachlo...	8.462	9.346	5264.8E6	1426.2E6	133.043	111.367
11) T	2,4,5-TP ...	9.029	9.730	7670.8E6	5164.9E6	474.948	1131.497 #
12) T	2,4,5-T	9.312	10.137	7628.9E6	2075.6E6	456.643	504.712
13) T	2,4-DB	9.875	10.697	1025.3E6	217.2E6	389.413	425.240
14) T	DINOSEB	11.050	11.073	962.5E6	270.8E6	87.443	80.490
15) T	Picloram	10.866	12.144	8907.0E6	2232.6E6	400.039	489.957
16) T	DCPA	11.350	12.104	10107.5E6	2695.1E6	546.695	580.696

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS102424\
Data File : PS028043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Oct 2024 19:32
Operator : AR\AJ
Sample : P4397-06MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

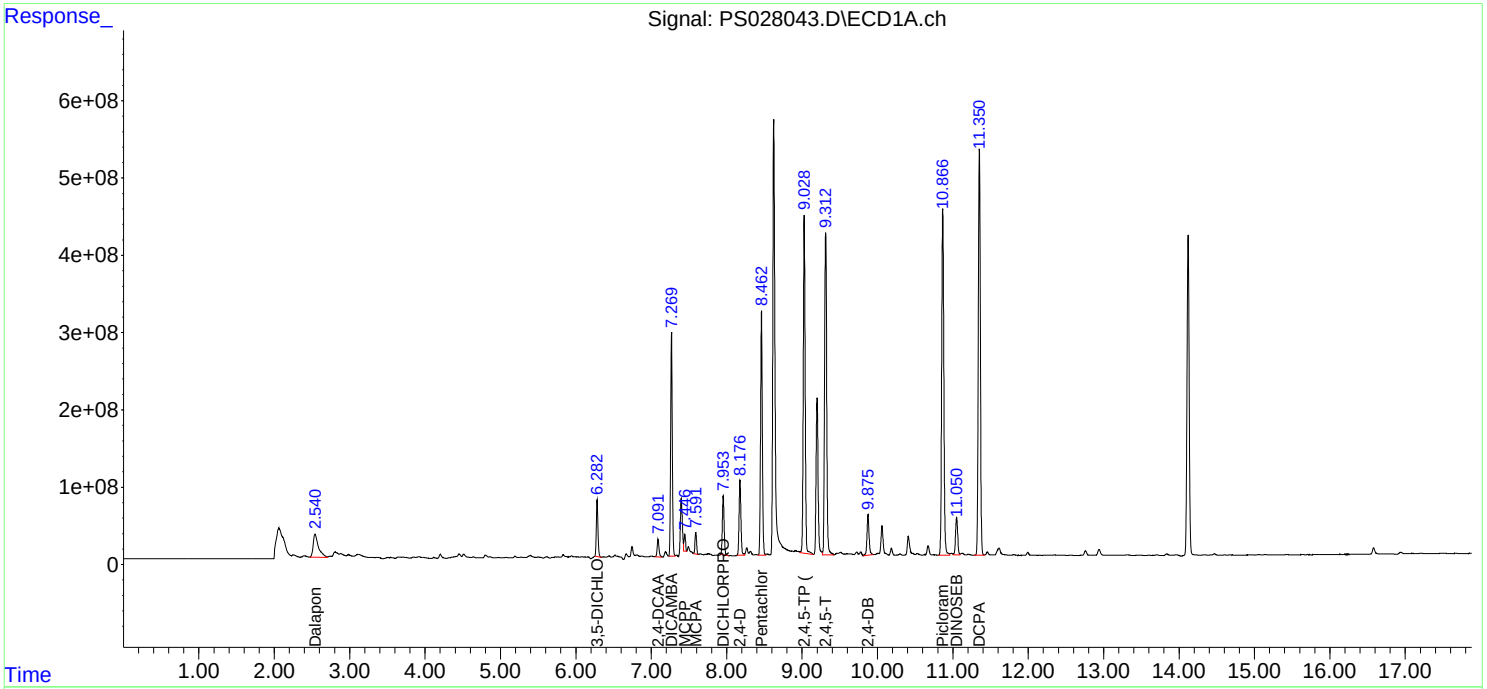
Instrument :
ECD_S
ClientSampleId :
WB-301-BOTMSD

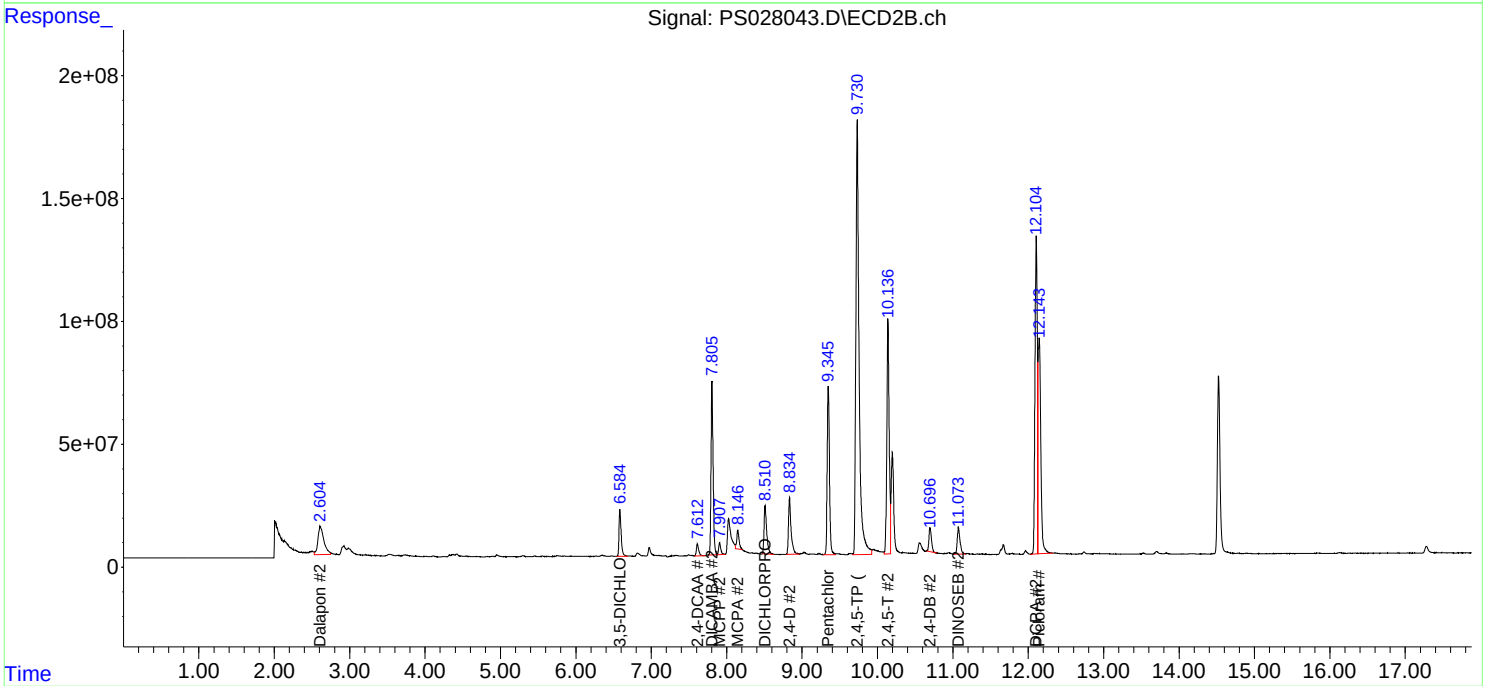
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 10/25/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 25 02:47:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS102324.M
Quant Title : 8080.M
QLast Update : Wed Oct 23 13:25:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PS102324	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS028008.D	MCPA #2	Abdul	10/24/2024 2:21:48 PM	Ankita	10/24/2024 2:24:57	Peak Integrated by Software
HSTDICC1000	PS028011.D	2,4-DCAA	Abdul	10/24/2024 2:21:51 PM	Ankita	10/24/2024 2:24:58	Peak Integrated by Software
HSTDCCC750	PS028015.D	Dalapon #2	Abdul	10/24/2024 2:21:55 PM	Ankita	10/24/2024 2:25:00	Peak Integrated by Software
HSTDCCC750	PS028024.D	Picloram #2	Abdul	10/24/2024 2:22:11 PM	Ankita	10/24/2024 2:25:11	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS102424	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS028031.D	2,4-DCAA	Abdul	10/25/2024 3:27:05 PM	Ankita	10/28/2024 9:12:15	Peak Integrated by Software
I.BLK	PS028035.D	2,4-DCAA	Abdul	10/25/2024 3:27:09 PM	Ankita	10/28/2024 9:12:17	Peak Integrated by Software
PB164378BL	PS028037.D	2,4-DCAA	Abdul	10/25/2024 3:27:12 PM	Ankita	10/28/2024 9:12:19	Peak Integrated by Software
P4397-06	PS028041.D	2,4-DCAA	Abdul	10/25/2024 3:27:18 PM	Ankita	10/28/2024 9:12:22	Peak Integrated by Software
P4397-06MS	PS028042.D	2,4-DCAA	Abdul	10/25/2024 3:27:21 PM	Ankita	10/28/2024 9:12:23	Peak Integrated by Software
P4397-06MS	PS028042.D	Dalapon #2	Abdul	10/25/2024 3:27:21 PM	Ankita	10/28/2024 9:12:23	Peak Integrated by Software
P4397-06MS	PS028042.D	MCPA #2	Abdul	10/25/2024 3:27:21 PM	Ankita	10/28/2024 9:12:23	Peak Integrated by Software
P4397-06MS	PS028042.D	MCPP	Abdul	10/25/2024 3:27:21 PM	Ankita	10/28/2024 9:12:23	Peak Integrated by Software
P4397-06MSD	PS028043.D	2,4-DCAA	Abdul	10/25/2024 3:27:24 PM	Ankita	10/28/2024 9:12:26	Peak Integrated by Software
P4397-06MSD	PS028043.D	Dalapon #2	Abdul	10/25/2024 3:27:24 PM	Ankita	10/28/2024 9:12:26	Peak Integrated by Software
P4397-06MSD	PS028043.D	MCPA #2	Abdul	10/25/2024 3:27:24 PM	Ankita	10/28/2024 9:12:26	Peak Integrated by Software
P4397-06MSD	PS028043.D	MCPP	Abdul	10/25/2024 3:27:24 PM	Ankita	10/28/2024 9:12:26	Peak Integrated by Software
I.BLK	PS028046.D	2,4-DCAA	Abdul	10/25/2024 3:27:33 PM	Ankita	10/28/2024 9:12:29	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS102424	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PS102824	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS028071.D	2,4-DCAA	Abdul	10/29/2024 8:52:10 AM	Ankita	10/29/2024 8:52:39	Peak Integrated by Software
HSTDCCC750	PS028072.D	MCPP #2	Abdul	10/29/2024 8:52:11 AM	Ankita	10/29/2024 8:52:40	Peak Integrated by Software
PB164261TB	PS028073.D	2,4-DCAA	Abdul	10/29/2024 8:52:14 AM	Ankita	10/29/2024 8:52:41	Peak Integrated by Software
PB164336TB	PS028074.D	2,4-DCAA	Abdul	10/29/2024 8:52:15 AM	Ankita	10/29/2024 8:52:43	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102324

Review By	Abdul	Review On	10/24/2024 2:22:53 PM		
Supervise By	Ankita	Supervise On	10/24/2024 2:25:32 PM		
SubDirectory	PS102324	HP Acquire Method		HP Processing Method	ps102324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028006.D	23 Oct 2024 10:40	AR\AJ	Ok
2	I.BLK	PS028007.D	23 Oct 2024 11:04	AR\AJ	Ok
3	HSTDICC200	PS028008.D	23 Oct 2024 11:28	AR\AJ	Ok,M
4	HSTDICC500	PS028009.D	23 Oct 2024 11:52	AR\AJ	Ok
5	HSTDICC750	PS028010.D	23 Oct 2024 12:16	AR\AJ	Ok
6	HSTDICC1000	PS028011.D	23 Oct 2024 12:40	AR\AJ	Ok,M
7	HSTDICC1500	PS028012.D	23 Oct 2024 13:04	AR\AJ	Ok
8	HSTDICV750	PS028013.D	23 Oct 2024 13:28	AR\AJ	Ok
9	I.BLK	PS028014.D	23 Oct 2024 14:14	AR\AJ	Ok
10	HSTDCCC750	PS028015.D	23 Oct 2024 14:38	AR\AJ	Ok,M
11	P4443-01	PS028016.D	23 Oct 2024 15:02	AR\AJ	Ok,M
12	P4443-06	PS028017.D	23 Oct 2024 15:26	AR\AJ	Ok,M
13	P4458-01	PS028018.D	23 Oct 2024 15:49	AR\AJ	Ok,M
14	P4458-01MS	PS028019.D	23 Oct 2024 16:13	AR\AJ	Ok,M
15	P4458-01MSD	PS028020.D	23 Oct 2024 16:37	AR\AJ	Ok,M
16	PB174307BL	PS028021.D	23 Oct 2024 17:01	AR\AJ	Ok,M
17	PB174307BS	PS028022.D	23 Oct 2024 17:25	AR\AJ	Ok
18	I.BLK	PS028023.D	23 Oct 2024 18:14	AR\AJ	Ok
19	HSTDCCC750	PS028024.D	23 Oct 2024 18:38	AR\AJ	Ok,M
20	P4468-03	PS028025.D	23 Oct 2024 19:02	AR\AJ	Ok,M
21	P4468-05	PS028026.D	23 Oct 2024 19:26	AR\AJ	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102324

Review By	Abdul	Review On	10/24/2024 2:22:53 PM		
Supervise By	Ankita	Supervise On	10/24/2024 2:25:32 PM		
SubDirectory	PS102324	HP Acquire Method		HP Processing Method	ps102324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4467-01	PS028027.D	23 Oct 2024 19:50	AR\AJ	Ok
23	I.BLK	PS028028.D	24 Oct 2024 01:27	AR\AJ	Ok
24	HSTDCCC750	PS028029.D	24 Oct 2024 01:51	AR\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102424

Review By	Abdul	Review On	10/25/2024 3:28:01 PM		
Supervise By	Ankita	Supervise On	10/28/2024 9:12:45 AM		
SubDirectory	PS102424	HP Acquire Method		HP Processing Method	ps102324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028030.D	24 Oct 2024 09:02	AR\AJ	Ok
2	I.BLK	PS028031.D	24 Oct 2024 09:26	AR\AJ	Ok,M
3	HSTDCCC750	PS028032.D	24 Oct 2024 09:50	AR\AJ	Ok
4	P4472-01	PS028033.D	24 Oct 2024 10:13	AR\AJ	Ok
5	P4472-05	PS028034.D	24 Oct 2024 10:37	AR\AJ	Ok
6	I.BLK	PS028035.D	24 Oct 2024 11:01	AR\AJ	Ok,M
7	HSTDCCC750	PS028036.D	24 Oct 2024 11:25	AR\AJ	Ok
8	PB164378BL	PS028037.D	24 Oct 2024 17:09	AR\AJ	Ok,M
9	PB164378BS	PS028038.D	24 Oct 2024 17:33	AR\AJ	Ok
10	PB164261TB	PS028039.D	24 Oct 2024 17:57	AR\AJ	Not Ok
11	PB164336TB	PS028040.D	24 Oct 2024 18:21	AR\AJ	Not Ok
12	P4397-06	PS028041.D	24 Oct 2024 18:45	AR\AJ	Ok,M
13	P4397-06MS	PS028042.D	24 Oct 2024 19:09	AR\AJ	Ok,M
14	P4397-06MSD	PS028043.D	24 Oct 2024 19:32	AR\AJ	Ok,M
15	P4460-04	PS028044.D	24 Oct 2024 19:56	AR\AJ	Not Ok
16	P4462-02	PS028045.D	24 Oct 2024 20:20	AR\AJ	Ok
17	I.BLK	PS028046.D	24 Oct 2024 20:44	AR\AJ	Ok,M
18	HSTDCCC750	PS028047.D	24 Oct 2024 21:08	AR\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102824

Review By	Abdul	Review On	10/29/2024 8:52:20 AM		
Supervise By	Ankita	Supervise On	10/29/2024 8:52:48 AM		
SubDirectory	PS102824	HP Acquire Method		HP Processing Method	ps102324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028070.D	28 Oct 2024 09:44	AR\AJ	Ok
2	I.BLK	PS028071.D	28 Oct 2024 10:08	AR\AJ	Ok,M
3	HSTDCCC750	PS028072.D	28 Oct 2024 10:32	AR\AJ	Ok,M
4	PB164261TB	PS028073.D	28 Oct 2024 13:11	AR\AJ	Ok,M
5	PB164336TB	PS028074.D	28 Oct 2024 13:35	AR\AJ	Ok,M
6	I.BLK	PS028075.D	28 Oct 2024 13:59	AR\AJ	Ok
7	HSTDCCC750	PS028076.D	28 Oct 2024 17:17	AR\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102324

Review By	Abdul	Review On	10/24/2024 2:22:53 PM		
Supervise By	Ankita	Supervise On	10/24/2024 2:25:32 PM		
SubDirectory	PS102324	HP Acquire Method		HP Processing Method	ps102324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028006.D	23 Oct 2024 10:40		AR\AJ	Ok
2	I.BLK	I.BLK	PS028007.D	23 Oct 2024 11:04		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028008.D	23 Oct 2024 11:28		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS028009.D	23 Oct 2024 11:52		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS028010.D	23 Oct 2024 12:16		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028011.D	23 Oct 2024 12:40		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028012.D	23 Oct 2024 13:04		AR\AJ	Ok
8	HSTDICV750	ICVPS102324	PS028013.D	23 Oct 2024 13:28		AR\AJ	Ok
9	I.BLK	I.BLK	PS028014.D	23 Oct 2024 14:14		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028015.D	23 Oct 2024 14:38		AR\AJ	Ok,M
11	P4443-01	OG-315-HR-502-COMF	PS028016.D	23 Oct 2024 15:02		AR\AJ	Ok,M
12	P4443-06	OG-315-HR-502-COMF	PS028017.D	23 Oct 2024 15:26		AR\AJ	Ok,M
13	P4458-01	280517	PS028018.D	23 Oct 2024 15:49		AR\AJ	Ok,M
14	P4458-01MS	280517MS	PS028019.D	23 Oct 2024 16:13	Some compound recovery fail	AR\AJ	Ok,M
15	P4458-01MSD	280517MSD	PS028020.D	23 Oct 2024 16:37	Some compound recovery fail , RPD is high in MCPA	AR\AJ	Ok,M
16	PB174307BL	PB174307BL	PS028021.D	23 Oct 2024 17:01	Typo PB164307BL	AR\AJ	Ok,M
17	PB174307BS	PB174307BS	PS028022.D	23 Oct 2024 17:25	Typo PB164307BS	AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102324

Review By	Abdul	Review On	10/24/2024 2:22:53 PM		
Supervise By	Ankita	Supervise On	10/24/2024 2:25:32 PM		
SubDirectory	PS102324	HP Acquire Method		HP Processing Method	ps102324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	I.BLK	I.BLK	PS028023.D	23 Oct 2024 18:14		AR\AJ	Ok
19	HSTDCCC750	HSTDCCC750	PS028024.D	23 Oct 2024 18:38		AR\AJ	Ok,M
20	P4468-03	ETGI-329	PS028025.D	23 Oct 2024 19:02		AR\AJ	Ok,M
21	P4468-05	ETGI-345	PS028026.D	23 Oct 2024 19:26		AR\AJ	Ok
22	P4467-01	TP-1	PS028027.D	23 Oct 2024 19:50		AR\AJ	Ok
23	I.BLK	I.BLK	PS028028.D	24 Oct 2024 01:27		AR\AJ	Ok
24	HSTDCCC750	HSTDCCC750	PS028029.D	24 Oct 2024 01:51		AR\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102424

Review By	Abdul	Review On	10/25/2024 3:28:01 PM		
Supervise By	Ankita	Supervise On	10/28/2024 9:12:45 AM		
SubDirectory	PS102424	HP Acquire Method		HP Processing Method	ps102324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028030.D	24 Oct 2024 09:02		AR\AJ	Ok
2	I.BLK	I.BLK	PS028031.D	24 Oct 2024 09:26		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS028032.D	24 Oct 2024 09:50		AR\AJ	Ok
4	P4472-01	BP-F-28	PS028033.D	24 Oct 2024 10:13		AR\AJ	Ok
5	P4472-05	BP-F-6	PS028034.D	24 Oct 2024 10:37		AR\AJ	Ok
6	I.BLK	I.BLK	PS028035.D	24 Oct 2024 11:01		AR\AJ	Ok,M
7	HSTDCCC750	HSTDCCC750	PS028036.D	24 Oct 2024 11:25		AR\AJ	Ok
8	PB164378BL	PB164378BL	PS028037.D	24 Oct 2024 17:09		AR\AJ	Ok,M
9	PB164378BS	PB164378BS	PS028038.D	24 Oct 2024 17:33		AR\AJ	Ok
10	PB164261TB	PB164261TB	PS028039.D	24 Oct 2024 17:57	surrogate fail in 2nd column	AR\AJ	Not Ok
11	PB164336TB	PB164336TB	PS028040.D	24 Oct 2024 18:21	surrogate fail in 2nd column	AR\AJ	Not Ok
12	P4397-06	WB-301-BOT	PS028041.D	24 Oct 2024 18:45	both surrogate fail confirms with ms/msd	AR\AJ	Ok,M
13	P4397-06MS	WB-301-BOTMS	PS028042.D	24 Oct 2024 19:09	both surrogate fail , some comp recovery fails	AR\AJ	Ok,M
14	P4397-06MSD	WB-301-BOTMSD	PS028043.D	24 Oct 2024 19:32	both surrogate fail , some comp recovery fails	AR\AJ	Ok,M
15	P4460-04	WB-303-BOT	PS028044.D	24 Oct 2024 19:56	both Surrogate Fail	AR\AJ	Not Ok
16	P4462-02	C0AL2	PS028045.D	24 Oct 2024 20:20		AR\AJ	Ok
17	I.BLK	I.BLK	PS028046.D	24 Oct 2024 20:44		AR\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102424

Review By	Abdul	Review On	10/25/2024 3:28:01 PM		
Supervise By	Ankita	Supervise On	10/28/2024 9:12:45 AM		
SubDirectory	PS102424	HP Acquire Method		HP Processing Method	ps102324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	HSTDCCC750	HSTDCCC750	PS028047.D	24 Oct 2024 21:08		AR\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS102824

Review By	Abdul	Review On	10/29/2024 8:52:20 AM		
Supervise By	Ankita	Supervise On	10/29/2024 8:52:48 AM		
SubDirectory	PS102824	HP Acquire Method		HP Processing Method	ps102324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028070.D	28 Oct 2024 09:44		AR\AJ	Ok
2	I.BLK	I.BLK	PS028071.D	28 Oct 2024 10:08		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS028072.D	28 Oct 2024 10:32		AR\AJ	Ok,M
4	PB164261TB	PB164261TB	PS028073.D	28 Oct 2024 13:11		AR\AJ	Ok,M
5	PB164336TB	PB164336TB	PS028074.D	28 Oct 2024 13:35		AR\AJ	Ok,M
6	I.BLK	I.BLK	PS028075.D	28 Oct 2024 13:59		AR\AJ	Ok
7	HSTDCCC750	HSTDCCC750	PS028076.D	28 Oct 2024 17:17		AR\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1

TCLP Filter ID : 114771

Start Prep Date : 10/18/2024 **Time :** 17:00

End Prep Date : 10/19/2024 **Time :** 10:15

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	N/A
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Tumbler T-1 CHECKED,30 RPM. Particle size reduction is not required. p4460-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/24 0810	JP TCLP Room	JPP EXT
	Preparation Group	Analysis Group VOA pick

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4397-06	WB-301-BOT	01	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4443-05	OG-315-HR-502-COMP-29	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P4443-10	OG-315-HR-502-COMP-30	03	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4458-02	280517	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4460-04	WB-303-BOT	05	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
PB164261TB	LEB261	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4397-06	WB-301-BOT	N/A	N/A	N/A	N/A	100	N/A
P4443-05	OG-315-HR-502-COMP-29	N/A	N/A	N/A	N/A	100	N/A
P4443-10	OG-315-HR-502-COMP-30	N/A	N/A	N/A	N/A	100	N/A
P4458-02	280517	N/A	N/A	N/A	N/A	100	N/A
P4460-04	WB-303-BOT	N/A	N/A	N/A	N/A	100	N/A
PB164261TB	LEB261	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164261

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4397-06	WB-301-BOT	5.02	96.5	7.4	2.5	#1	4.93
P4443-05	OG-315-HR-502-COMP-29	5.03	96.5	7.6	2.5	#1	4.93
P4443-10	OG-315-HR-502-COMP-30	5.02	96.5	6.0	2.0	#1	4.93
P4458-02	280517	5.01	96.5	7.6	2.5	#1	4.93
P4460-04	WB-303-BOT	5.02	96.5	8.4	3.0	#1	4.93
PB164261TB	LEB261	N/A	N/A	N/A	N/A	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP P4397 **WorkList ID :** 184595 **Department :** TCLP Extraction **Date :** 10-18-2024 14:05:11

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4397-06	WB-301-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06		10/10/2024	1311
P4443-05	OG-315-HR-502-COMP-29	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311
P4443-10	OG-315-HR-502-COMP-30	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311
P4458-02	280517	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311
P4460-04	WB-303-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K51	10/18/2024	1311

Date/Time 10.18.24 16:20
Raw Sample Received by: JQ WPC
Raw Sample Relinquished by: CP SR

Date/Time 10.18.24 18:30
Raw Sample Received by: SR
Raw Sample Relinquished by: JQ WPC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164378

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RJ

Filter By: EH

pH Meter ID: N/A

Hood ID: 4,7

Extraction Start Date : 10/24/2024

Extraction Start Time : 11:28

Extraction End Date : 10/24/2024

Extraction End Time : 16:30

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP23699
Surrogate	1.0ML	5000 PPB	PP23907
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	E3370
Acidified Na2SO4	N/A	EP2503
12N H2SO4	N/A	EP2552
NAOH 6N	N/A	EP2491
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2529
Hexane	N/A	E3816
NACL	N/A	M4459
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted with 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS721.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/24/24	RP (Ext. Lab)	[signature] Pest/PCB Lab
16:35	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164378

Analytical Method: M8151A-Herbicide-22

Concentration Date: 10/24/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164261TB	PB164261TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-08
PB164336TB	PB164336TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			9
PB164378BL	HBLK378	TCLP Herbicide	1000	6	RUPESH	ritesh	10			10
PB164378BS	HLCS378	TCLP Herbicide	1000	6	RUPESH	ritesh	10			11
P4397-06	WB-301-BOT	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		12
P4397-06MS	WB-301-BOTMS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		13
P4397-06MSD	WB-301-BOTMSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		14
P4460-04	WB-303-BOT	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		15
P4462-02	C0AL2	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		16

* **Extracts relinquished on the same date as received.**

10/24/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164336

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4462-02	C0AL2	N/A	N/A	N/A	N/A	N/A	N/A	8.0	1.5	N/A
~~P4488-03~~	~~HCC-1~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~4.5~~	~~1.0~~	~~N/A~~
~~P4488-05~~	~~HCC-2~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~5.0~~	~~1.5~~	~~N/A~~
P4511-01	266	N/A	N/A	N/A	N/A	N/A	N/A	8.0	1.0	N/A
P4512-01	3140	N/A	N/A	N/A	N/A	N/A	N/A	7.6	1.5	N/A
P4512-02	3149	N/A	N/A	N/A	N/A	N/A	N/A	7.6	1.0	N/A
P4513-04	D3682	N/A	N/A	N/A	N/A	N/A	N/A	8.6	1.5	N/A
PB164336TB	LEB336	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A

10/24/25

10/24/25 11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164261

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4397-06	WB-301-BOT	01	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4443-05	OG-315-HR-502-COMP-29	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P4443-10	OG-315-HR-502-COMP-30	03	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4458-02	280517	04	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4460-04	WB-303-BOT	05	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
PB164261TB	LEB261	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

10/21/2024

08:00

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4397
QUOTE NO.
COC Number 2042048

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Adam Avenue
CITY Audobon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's replacement of SB
PROJECT NO.: 950000818 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: DRAC@bamsystems.com
PHONE: 610-301-8362 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St.
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha. PHONE: 908-788-3198

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT BEM EDD

ANALYSIS

1 TCL VOC +10
2 TCL PAH
3 PCB
4 TAL Metals (+Hg), CN(N)
5 EPH
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2	3	4 (B)	5 (F)	6	7	8	9	COMMENTS
1.	WB-301-TOP	S	X		10/10	10:00	10	X	X	X	X	X	X				
2.	WB-301-BOT	S	X		10/10	12:15	10	X	X	X	X	X	X				
3.	WB-301-SW	GW	X		10/10	11:00	7	X	X	X	X	X					
4.	TB-10102024	W			10/10	LAB	2	X									
5.	Temp. Blank																
6.																	
7.																	
8.																	
9.																	
10.																	

Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Nita Mureika	3:05 PM 10/11/24	1. 1505 10-11-24
2.		2.
3.	1610 10 11 24	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.5 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Vrunda Pujara <vpujara@yu-associates.com>
Sent: Thursday, October 17, 2024 4:58 PM
To: Yazmeen Gomez
Cc: Chengyu Hang; 'Jordan Hedvat'
Subject: Corrected COC
Attachments: Corrected COC.pdf

Hello Yazmeen,

For samples collected on 10.10.2024. The WB-301-Bot were to be additionally analyzed for Full TCLP, RCRA parameters and TOX. I have included the corrected scanned COC in the email. Kindly let me know if you have any additional questions.

Thanks,

Vrunda Pujara
Senior Staff Engineer

YU & Associates
611 River Drive, 3rd Floor* | Elmwood Park | NJ 07407
D: 201.791.0075 **F:** 201.791.4533

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488