

Cover Page

Order ID : P4660

Project ID : 540 Degraw St, Brooklyn, NY - E9309

Client : ENTACT

Lab Sample Number

P4660-01
P4660-02
P4660-03
P4660-04
P4660-05
P4660-06
P4660-07
P4660-08
P4660-09
P4660-10
P4660-11
P4660-12

Client Sample Number

WC-TA2-01-G
WC-TA2-01-C
WC-TA2-01-C
WC-TA2-01-C
WC-WOOD-01-G
WC-WOOD-01-C
WC-WOOD-01-C
WC-WOOD-01-C
WC-CONCRETE-01-G
WC-CONCRETE-01-C
WC-CONCRETE-01-C
WC-CONCRETE-01-C

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: 11/8/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4660

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 Custody

✓

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: 11/08/2024

LAB CHRONICLE

OrderID:	P4660	OrderDate:	10/31/2024 2:38:00 PM
Client:	ENTACT	Project:	540 Degraw St, Brooklyn, NY - E9309
Contact:	Jarod Stanfield	Location:	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4660-02	WC-TA2-01-C	SOIL			10/30/24			10/31/24
			PCB	8082A		11/04/24	11/04/24	
P4660-03	WC-TA2-01-C	TCLP			10/30/24			10/31/24
			TCLP Herbicide	8151A		11/06/24	11/07/24	
			TCLP Pesticide	8081B		11/06/24	11/07/24	
P4660-06	WC-WOOD-01-C	SOIL			10/31/24			10/31/24
			PCB	8082A		11/04/24	11/04/24	
P4660-07	WC-WOOD-01-C	TCLP			10/31/24			10/31/24
			TCLP Herbicide	8151A		11/06/24	11/07/24	
			TCLP Pesticide	8081B		11/06/24	11/07/24	
P4660-10	WC-CONCRETE-01-C	SOIL			10/31/24			10/31/24
			PCB	8082A		11/04/24	11/04/24	
P4660-11	WC-CONCRETE-01-C	TCLP			10/31/24			10/31/24
			TCLP Herbicide	8151A		11/06/24	11/07/24	
			TCLP Pesticide	8081B		11/06/24	11/07/24	



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

Hit Summary Sheet
SW-846

SDG No.: P4660

Order ID: P4660

Client: ENTACT

Project ID: 540 Degraw St, Brooklyn, NY - E9309

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: **P4660**

Client: **ENTACT**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028252.D	PIBLK-PS028252.D	2,4-DCAA	1	500	489	98		70 (39)	130 (175)
		2,4-DCAA	2	500	491	98		70 (39)	130 (175)
I.BLK-PS028308.D	PIBLK-PS028308.D	2,4-DCAA	1	500	526	105		70 (39)	130 (175)
		2,4-DCAA	2	500	489	98		70 (39)	130 (175)
P4660-03	WC-TA2-01-C	2,4-DCAA	1	500	679	136	*	70 (39)	130 (175)
		2,4-DCAA	2	500	605	121		70 (39)	130 (175)
P4660-07	WC-WOOD-01-C	2,4-DCAA	1	500	460	92		70 (39)	130 (175)
		2,4-DCAA	2	500	380	76		70 (39)	130 (175)
P4660-11	WC-CONCRETE-01-C	2,4-DCAA	1	500	720	144	*	70 (39)	130 (175)
		2,4-DCAA	2	500	597	119		70 (39)	130 (175)
P4660-03MS	WC-TA2-01-CMS	2,4-DCAA	1	500	428	86		70 (39)	130 (175)
		2,4-DCAA	2	500	338	68	*	70 (39)	130 (175)
P4660-03MSD	WC-TA2-01-CMSD	2,4-DCAA	1	500	447	89		70 (39)	130 (175)
		2,4-DCAA	2	500	361	72		70 (39)	130 (175)
PB164752BL	PB164752BL	2,4-DCAA	1	500	570	114		70 (39)	130 (175)
		2,4-DCAA	2	500	493	99		70 (39)	130 (175)
PB164752BS	PB164752BS	2,4-DCAA	1	500	561	112		70 (39)	130 (175)
		2,4-DCAA	2	500	499	100		70 (39)	130 (175)
PB164560TB	PB164560TB	2,4-DCAA	1	500	374	75		70 (39)	130 (175)
		2,4-DCAA	2	500	306	61	*	70 (39)	130 (175)
I.BLK-PS028319.D	PIBLK-PS028319.D	2,4-DCAA	1	500	540	108		70 (39)	130 (175)
		2,4-DCAA	2	500	489	98		70 (39)	130 (175)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4660

Client: ENTACT

Analytical Method: 8151A

DataFile : PS028313.D

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits	
			Result	Result			Qual	RPD	Qual	Low	High	RPD
Client Sample ID: P4660-03MS	WC-TA2-01-CMS											
	2,4-D	50	0	50.3	ug/L	101				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	52.9	ug/L	106				70 (62)	130 (139)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4660

Client: ENTACT

Analytical Method: 8151A

DataFile : PS028314.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	WC-TA2-01-CMSD											
P4660-03MSD	2,4-D	50	0	53.9	ug/L	108		7		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	58.5	ug/L	117		10		70 (62)	130 (139)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4660

Client: ENTACT

Analytical Method: **8151A** **Datafile :** PS028316.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164752BS	2,4-D	5	5.30	ug/L	106				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.50	ug/L	110				70 (78)	130 (127)	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164752BL

Lab Name: CHEMTECH

Contract: ENTA05

Lab Code: CHEM Case No.: P4660

SAS No.: P4660 SDG NO.: P4660

Lab Sample ID: PB164752BL

Lab File ID: PS028315.D

Matrix: (soil/water) water

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 11/06/2024

Date Analyzed (1): 11/07/2024

Date Analyzed (2): 11/07/2024

Time Analyzed (1): 12:16

Time Analyzed (2): 12:16

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
WC-TA2-01-C	P4660-03	PS028310.D	11/07/2024	11/07/2024
WC-WOOD-01-C	P4660-07	PS028311.D	11/07/2024	11/07/2024
WC-CONCRETE-01-C	P4660-11	PS028312.D	11/07/2024	11/07/2024
WC-TA2-01-CMS	P4660-03MS	PS028313.D	11/07/2024	11/07/2024
WC-TA2-01-CMSD	P4660-03MSD	PS028314.D	11/07/2024	11/07/2024
PB164752BS	PB164752BS	PS028316.D	11/07/2024	11/07/2024
PB164560TB	PB164560TB	PS028317.D	11/07/2024	11/07/2024

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	10/30/24
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	10/31/24
Client Sample ID:	WC-TA2-01-C	SDG No.:	P4660
Lab Sample ID:	P4660-03	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
PS028310.D	1	11/06/24 09:34	11/07/24 10:16	PB164752

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	679	*	70 (39) - 130 (175)	136%	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\PS110624\
Data File : PS028310.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 10:16
Operator : AR\AJ
Sample : P4660-03
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-TA2-01-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 10:49:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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	7.257	7.761	1739.4E6	1053.9E6	679.081	605.076

Target Compounds

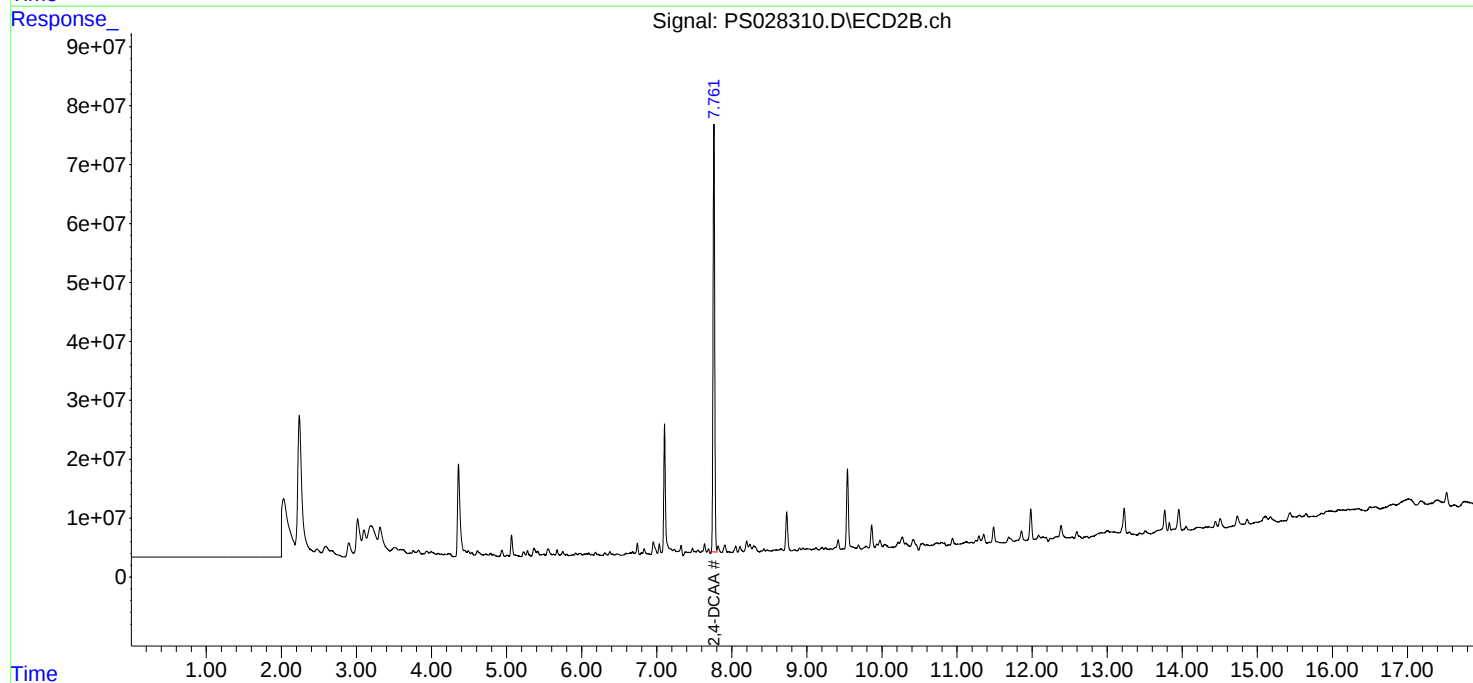
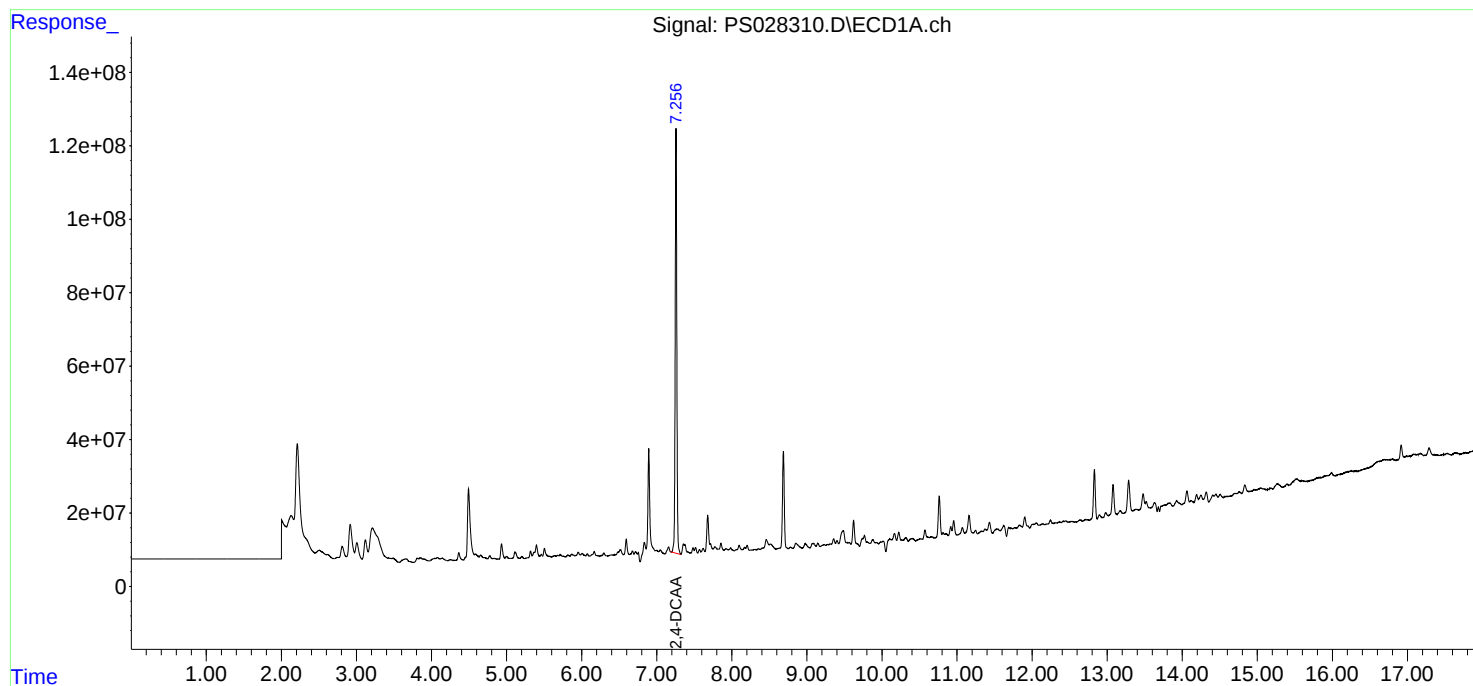
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028310.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 10:16
Operator : AR\AJ
Sample : P4660-03
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-TA2-01-C

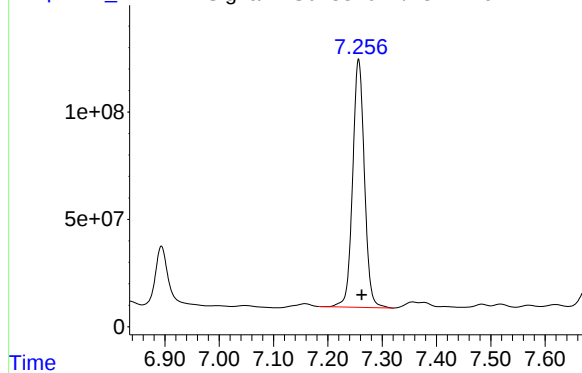
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 10:49:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Signal: PS028310.D\ECD1A.ch

#4 2,4-DCAA

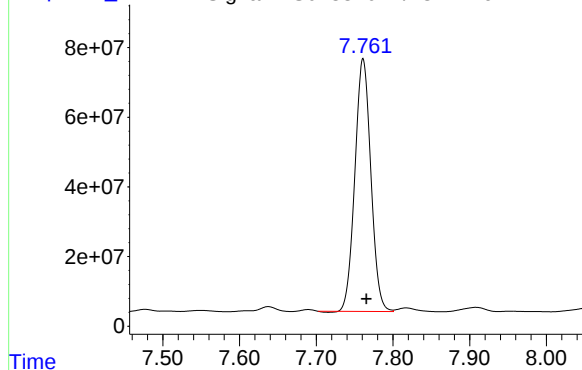


R.T.: 7.257 min
Delta R.T.: -0.006 min
Response: 1739408050
Conc: 679.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-TA2-01-C

Signal: PS028310.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.761 min
Delta R.T.: -0.004 min
Response: 1053909660
Conc: 605.08 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	10/31/24
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	10/31/24
Client Sample ID:	WC-WOOD-01-C	SDG No.:	P4660
Lab Sample ID:	P4660-07	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028311.D	1	11/06/24 09:34	11/07/24 10:40	PB164752

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	460		70 (39) - 130 (175)	92%	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\PS110624\
Data File : PS028311.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 10:40
Operator : AR\AJ
Sample : P4660-07
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-WOOD-01-C

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 11:09:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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	7.256	7.760	1177.5E6	662.3E6	459.703m	380.263m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028311.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 10:40
Operator : AR\AJ
Sample : P4660-07
Misc :
ALS Vial : 82 Sample Multiplier: 1

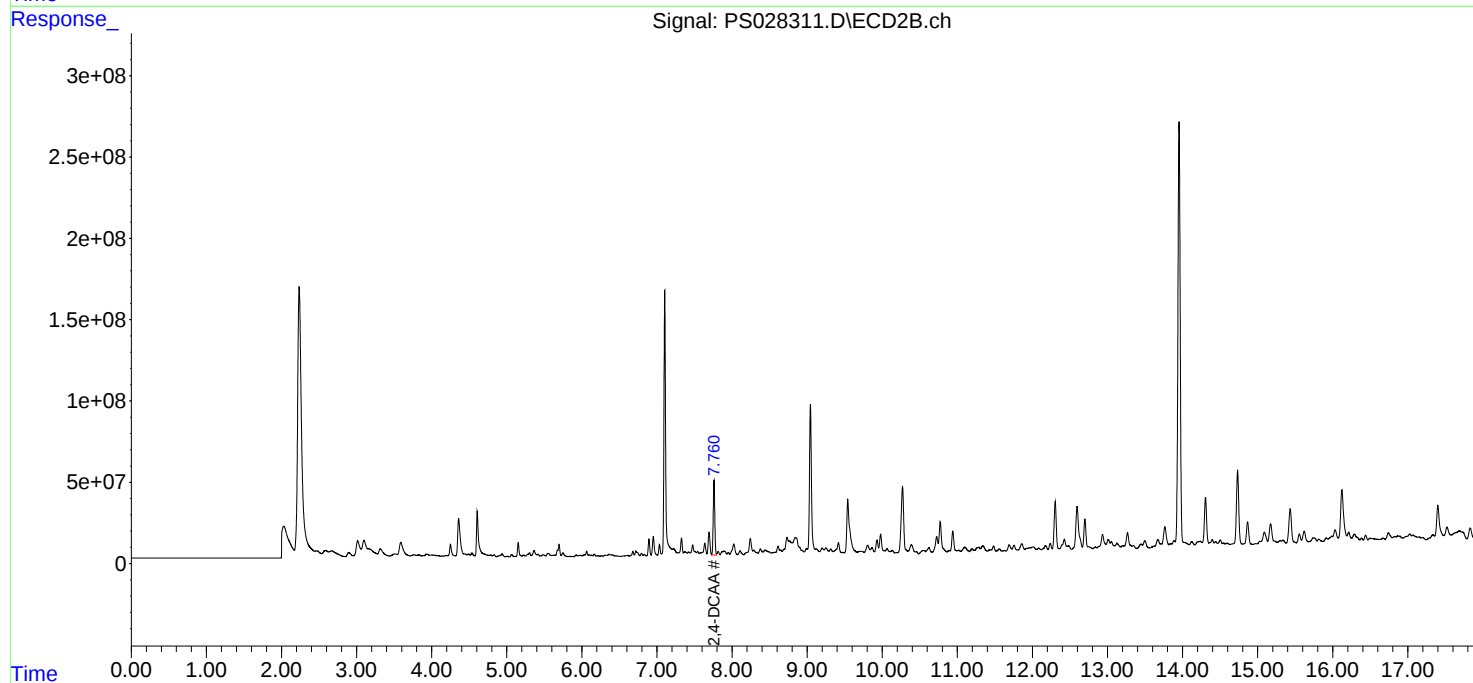
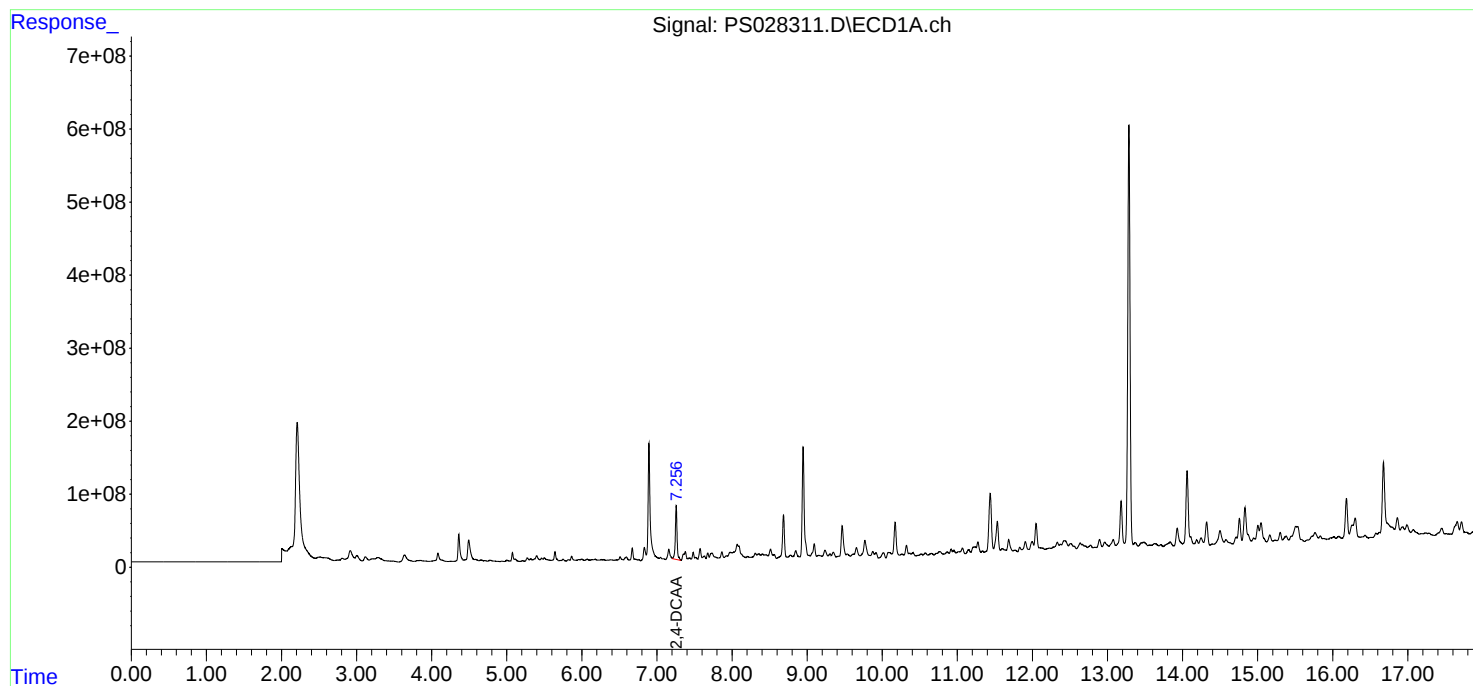
Instrument :
ECD_S
ClientSampleId :
WC-WOOD-01-C

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/08/2024
Supervised By : Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 11:09:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

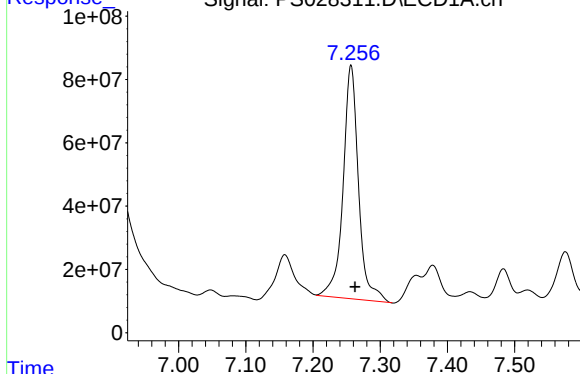
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response

Signal: PS028311.D\ECD1A.ch

#4 2,4-DCAA



R.T.: 7.256 min
Delta R.T.: -0.006 min
Response: 1177489389
Conc: 459.70 ng/ml

Instrument :

ECD_S

ClientSampleId :

WC-WOOD-01-C

Manual Integrations

APPROVED

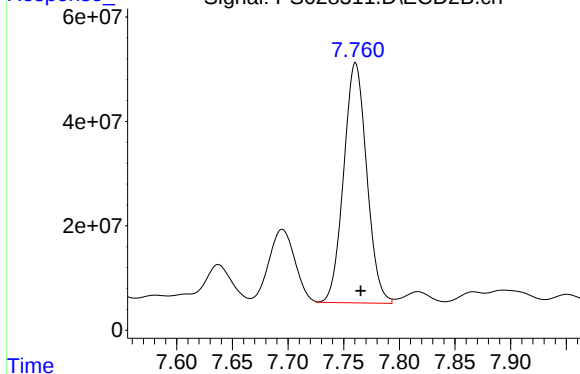
Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Time

Response

Signal: PS028311.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.760 min
Delta R.T.: -0.005 min
Response: 662334006
Conc: 380.26 ng/ml m

Report of Analysis

Client:	ENTACT	Date Collected:	10/31/24
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	10/31/24
Client Sample ID:	WC-CONCRETE-01-C	SDG No.:	P4660
Lab Sample ID:	P4660-11	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
PS028312.D	1	11/06/24 09:34	11/07/24 11:04	PB164752

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	720	*	70 (39) - 130 (175)	144%	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\PS110624\
 Data File : PS028312.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 11:04
 Operator : AR\AJ
 Sample : P4660-11
 Misc :
 ALS Vial : 83 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-CONCRETE-01-C

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 07 11:21:11 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.256	7.760	1843.6E6	1040.5E6	719.762m	597.380m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028312.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 11:04
Operator : AR\AJ
Sample : P4660-11
Misc :
ALS Vial : 83 Sample Multiplier: 1

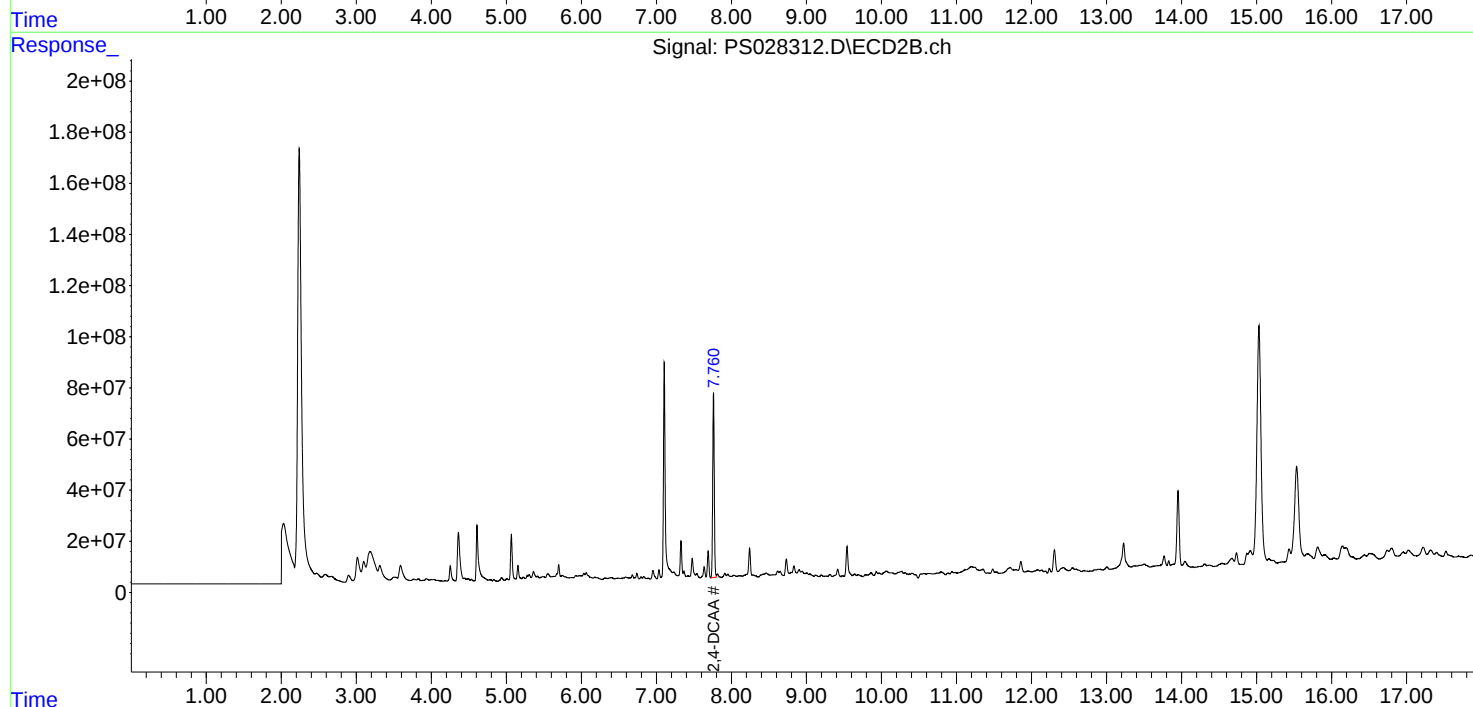
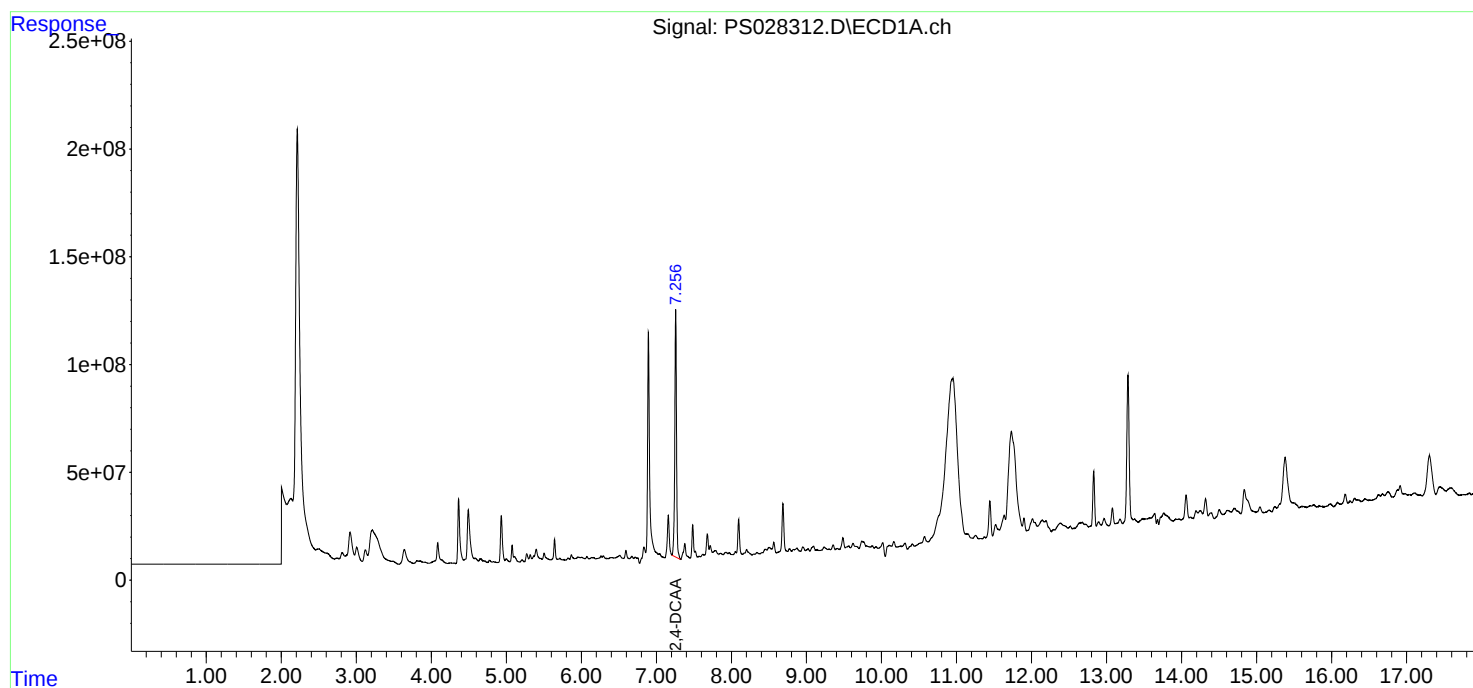
Instrument :
ECD_S
ClientSampleId :
WC-CONCRETE-01-C

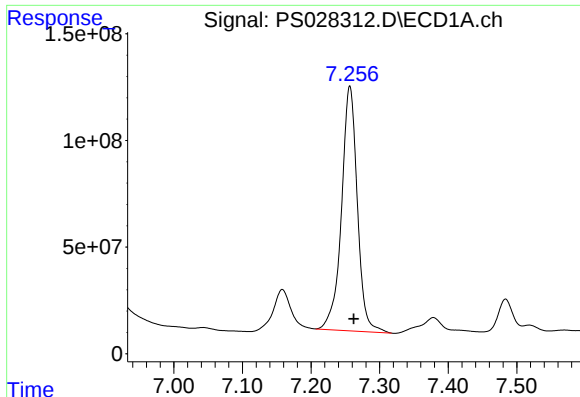
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/08/2024
Supervised By : Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 11:21:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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





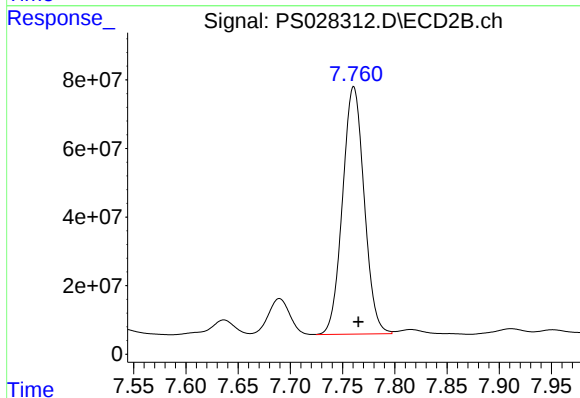
#4 2,4-DCAA

R.T.: 7.256 min
Delta R.T.: -0.006 min
Response: 1843608961
Conc: 719.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-CONCRETE-01-C

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



#4 2,4-DCAA

R.T.: 7.760 min
Delta R.T.: -0.005 min
Response: 1040505382
Conc: 597.38 ng/ml m

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	11/06/24
Client Sample ID:	PB164560TB	SDG No.:	P4660
Lab Sample ID:	PB164560TB	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
PS028317.D	1	11/06/24 09:34	11/07/24 13:04	PB164752

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	374		70 (39) - 130 (175)	75%	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\PS110624\
 Data File : PS028317.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 13:04
 Operator : AR\AJ
 Sample : PB164560TB
 Misc :
 ALS Vial : 88 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB164560TB

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 08 03:12:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.256	7.759	956.9E6	532.7E6	373.579	305.846m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028317.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 13:04
Operator : AR\AJ
Sample : PB164560TB
Misc :
ALS Vial : 88 Sample Multiplier: 1

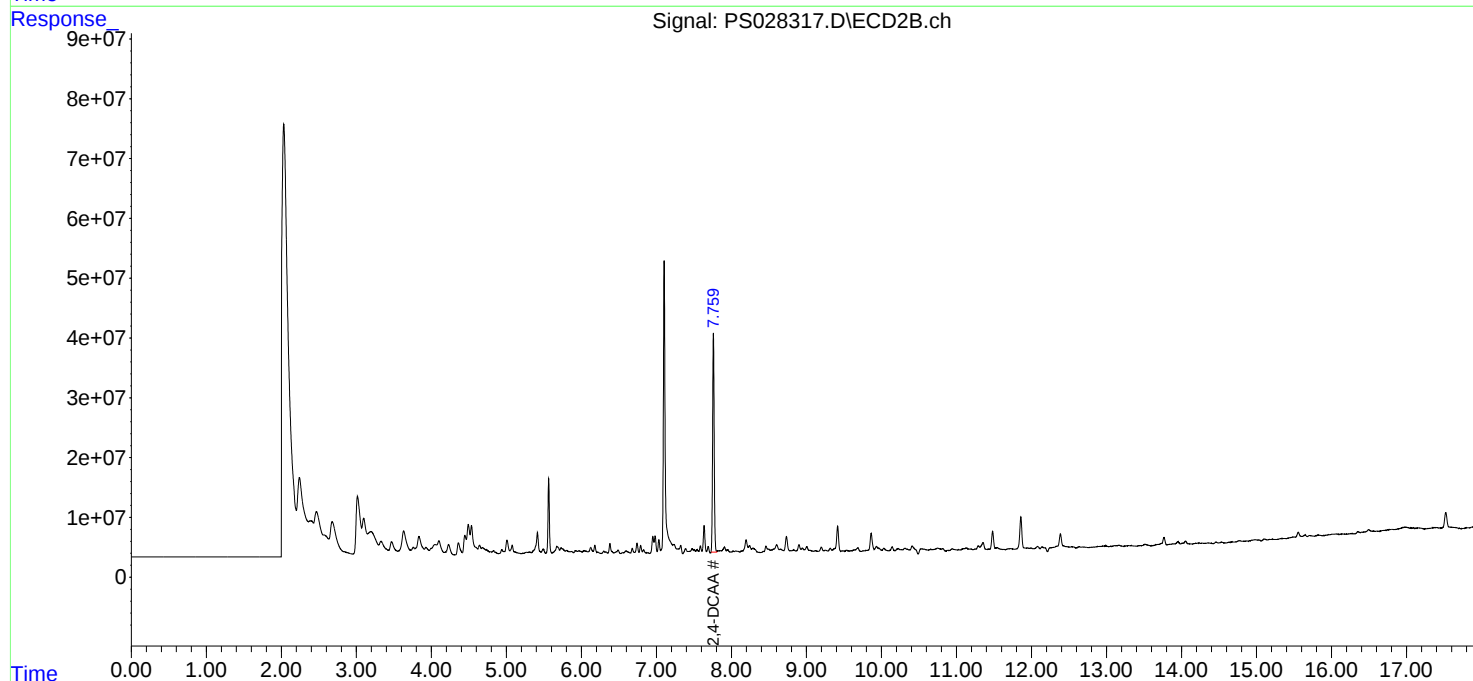
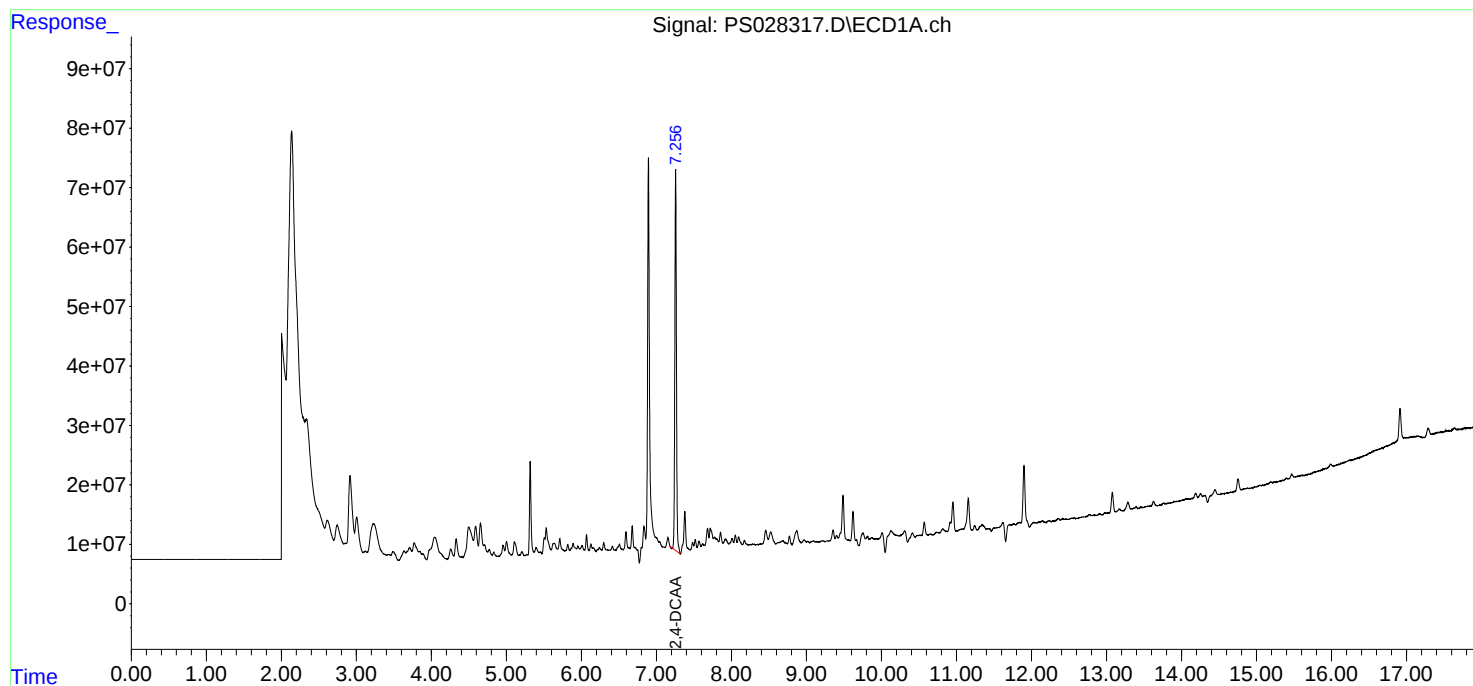
Instrument :
ECD_S
ClientSampleId :
PB164560TB

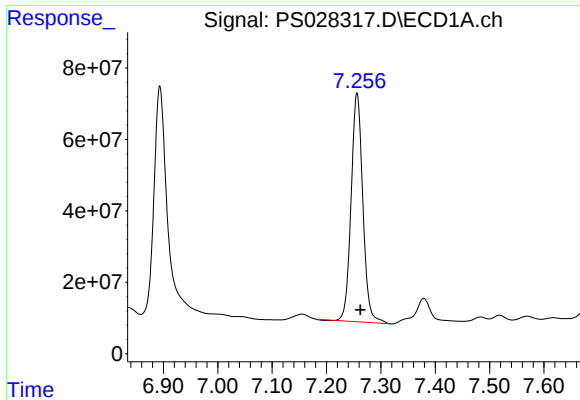
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/08/2024
Supervised By : Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 03:12:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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





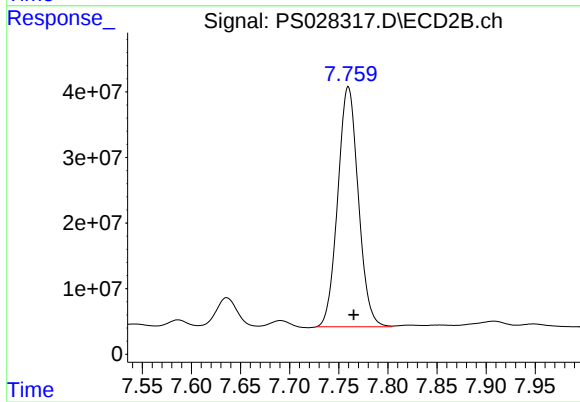
#4 2,4-DCAA

R.T.: 7.256 min
Delta R.T.: -0.006 min
Response: 956889801
Conc: 373.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164560TB

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



#4 2,4-DCAA

R.T.: 7.759 min
Delta R.T.: -0.006 min
Response: 532716202
Conc: 305.85 ng/ml m



CALIBRATION SUMMARY

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

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Contract: ENTA05
Lab Code: CHEM **Case No.:** P4660 **SAS No.:** P4660 **SDG NO.:** P4660
Instrument ID: ECD_S **Calibration Date(s):** 11/06/2024 11/06/2024
Calibration Times: 09:48 11:24

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

LAB FILE ID:	RT 200 = <u>PS028253.D</u>	RT 500 = <u>PS028254.D</u>
	RT 750 = <u>PS028255.D</u>	RT 1000 = <u>PS028256.D</u>
		RT 1500 = <u>PS028257.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM TO	
2,4,5-TP(Silvex)	9.92	9.92	9.92	9.92	9.92	9.92	9.82	10.02
2,4-D	9.02	9.02	9.02	9.02	9.02	9.02	8.92	9.12
2,4-DCAA	7.77	7.77	7.77	7.77	7.77	7.76	7.66	7.86



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

Instrument ID: ECD_S

Calibration Date(s): 11/06/2024 11/06/2024

Calibration Times: 09:48 11:24

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

LAB FILE ID:		CF 200 =	<u>PS028253.D</u>	CF 500 =	<u>PS028254.D</u>		
CF 750 =		<u>PS028255.D</u>	CF 1000 =	<u>PS028256.D</u>	CF 1500 =	<u>PS028257.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	18381400000	17393400000	17071400000	16437600000	15844400000	17025600000	6
2,4-D	3499520000	3198390000	3124710000	3013570000	2944350000	3156110000	7
2,4-DCAA	2911600000	2530960000	2546610000	2432090000	2385800000	2561410000	8



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

Instrument ID: ECD_S Calibration Date(s): 11/06/2024 11/06/2024

Calibration Times: 09:48 11:24

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

LAB FILE ID:		CF 200 =	<u>PS028253.D</u>	CF 500 =	<u>PS028254.D</u>		
CF 750 =		<u>PS028255.D</u>	CF 1000 =	<u>PS028256.D</u>	CF 1500 =	<u>PS028257.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	12950900000	12612000000	12578800000	12192000000	11879700000	12442700000	3
2,4-D	2348170000	2233230000	2226180000	2175820000	2167290000	2230140000	3
2,4-DCAA	1855960000	1741220000	1731630000	1690270000	1689820000	1741780000	4

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028253.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 09:48
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC200

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 11:36:54 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:36:47 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	7.262	7.765	582.3E6	371.2E6	223.512	211.533
Target Compounds							
1) T	Dalapon	2.653	2.711	642.4E6	562.1E6	181.633	189.953
2) T	3,5-DICHL...	6.429	6.716	776.6E6	497.7E6	203.432	195.199
3) T	4-Nitroph...	7.062	7.291	321.8E6	224.2E6	193.828	194.321
5) T	DICAMBA	7.451	7.966	2215.0E6	1497.1E6	195.228	186.177
6) T	MCPD	7.631	8.064	125.9E6	109.8E6	16.918	18.245
7) T	MCPA	7.780	8.309	187.1E6	163.1E6	18.066	19.509
8) T	DICHLORPROP	8.162	8.684	591.9E6	395.3E6	206.431	195.806
9) T	2,4-D	8.394	9.015	657.9E6	441.5E6	205.017	196.565
10) T	Pentachlo...	8.693	9.547	8878.0E6	5945.0E6	203.188	199.509
11) T	2,4,5-TP ...	9.276	9.923	3492.5E6	2460.7E6	201.633	195.549
12) T	2,4,5-T	9.569	10.345	3534.9E6	2429.8E6	200.660	195.776
13) T	2,4-DB	10.147	10.912	561.2E6	303.0E6	197.443	191.585
14) T	DINOSEB	11.364	11.292	2842.8E6	1680.5E6	194.787	191.515
15) T	Picloram	11.169	12.392	5567.6E6	3307.4E6	190.816	182.953
16) T	DCPA	11.656	12.339	4826.0E6	2771.8E6	200.001	195.462

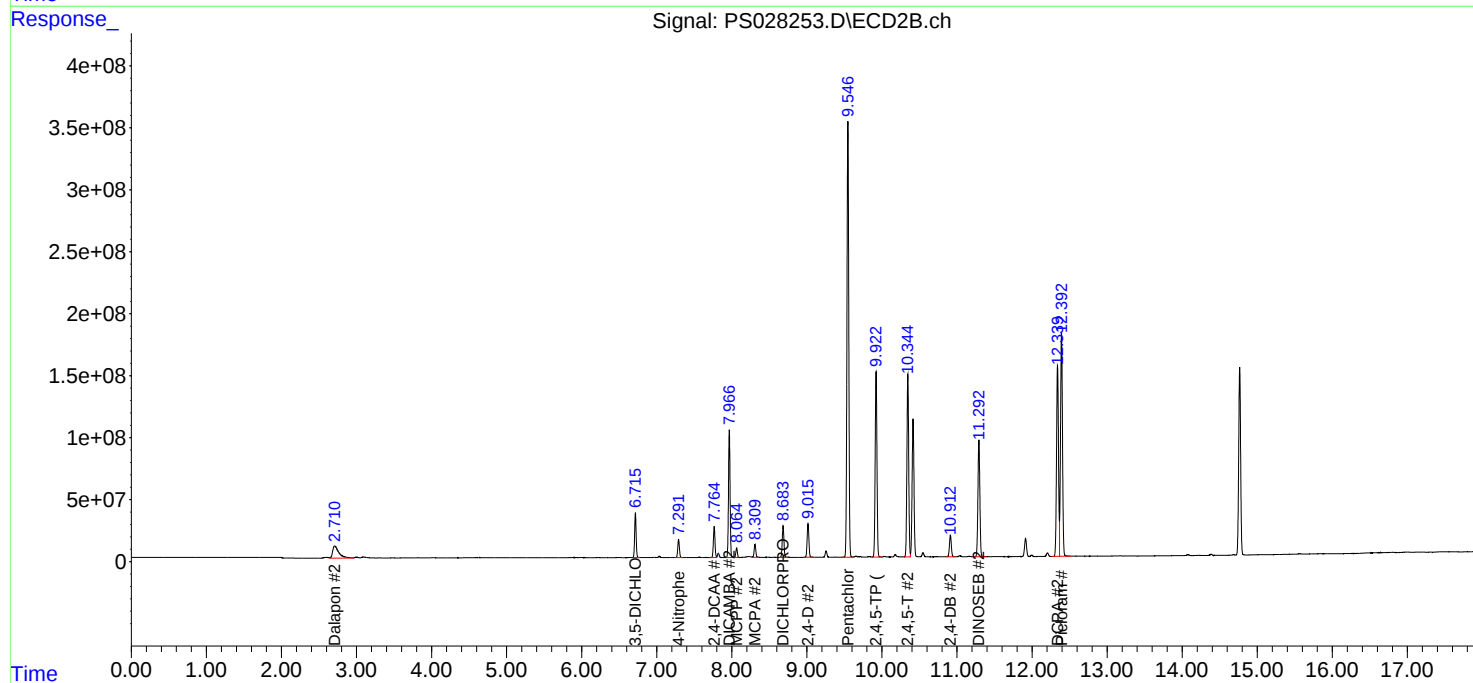
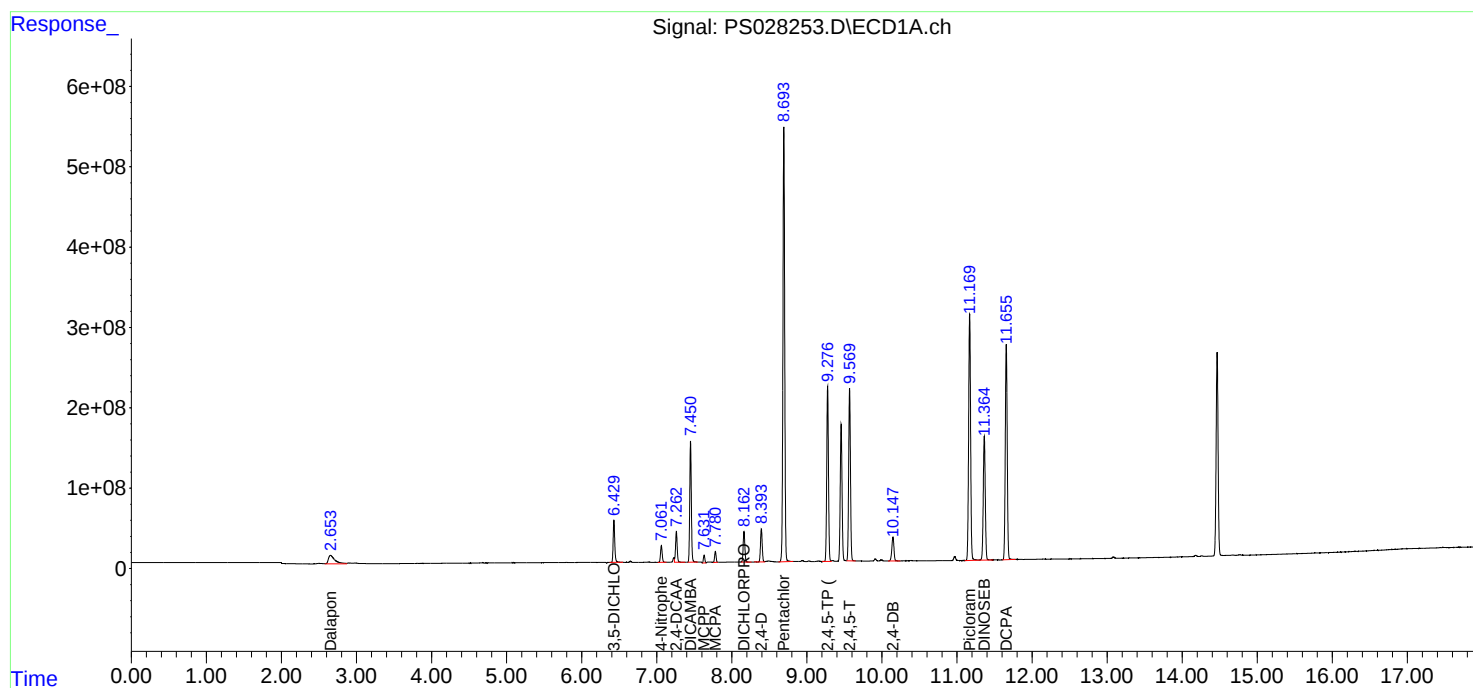
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028253.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 09:48
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 11:36:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:36:47 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028254.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 10:12
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 11:33:09 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:33:01 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	7.262	7.765	1265.5E6	870.6E6	492.828m	501.380
Target Compounds							
1) T	Dalapon	2.654	2.710	1576.6E6	1334.9E6	449.078	454.559
2) T	3,5-DICHL...	6.431	6.716	1771.1E6	1178.0E6	470.764	465.677
3) T	4-Nitroph...	7.062	7.291	748.3E6	518.6E6	456.609	456.042
5) T	DICAMBA	7.452	7.967	5332.7E6	3769.1E6	471.139	466.034
6) T	MCPD	7.634	8.067	349.6E6	280.7E6	45.882	46.335
7) T	MCPA	7.784	8.312	480.5E6	382.5E6	45.988	46.343
8) T	DICHLORPROP	8.163	8.684	1341.1E6	943.2E6	475.774	470.524
9) T	2,4-D	8.394	9.016	1503.2E6	1049.6E6	475.477	470.744
10) T	Pentachlo...	8.694	9.546	21029.5E6	14322.7E6	481.316	479.818
11) T	2,4,5-TP ...	9.277	9.923	8261.8E6	5990.7E6	479.437	475.627
12) T	2,4,5-T	9.570	10.344	8407.1E6	5907.4E6	479.082	475.572
13) T	2,4-DB	10.147	10.912	1342.8E6	743.8E6	475.218	471.354
14) T	DINOSEB	11.365	11.293	6850.2E6	4122.6E6	470.326	469.215
15) T	Picloram	11.169	12.393	13862.1E6	8612.2E6	472.396	469.122
16) T	DCPA	11.657	12.339	11638.0E6	6852.1E6	482.282	480.529

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028254.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 10:12
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

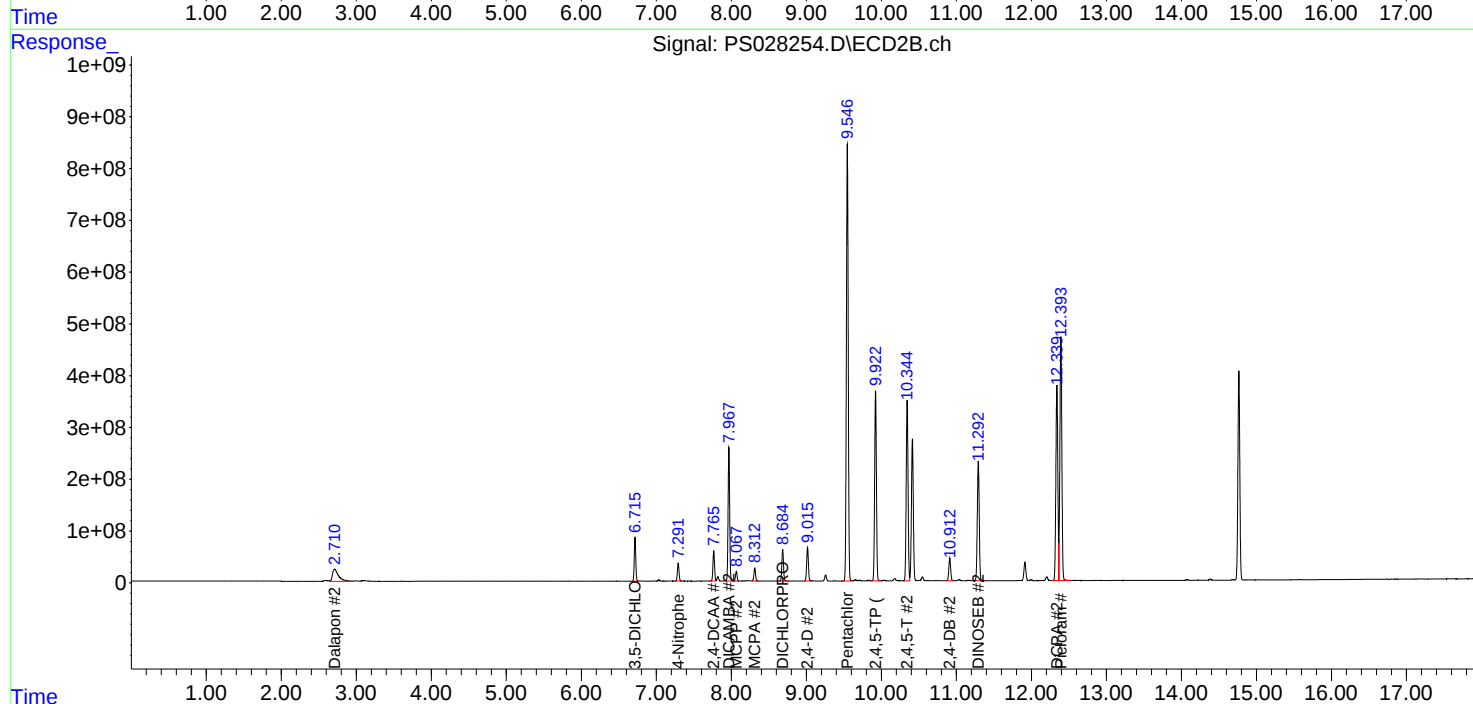
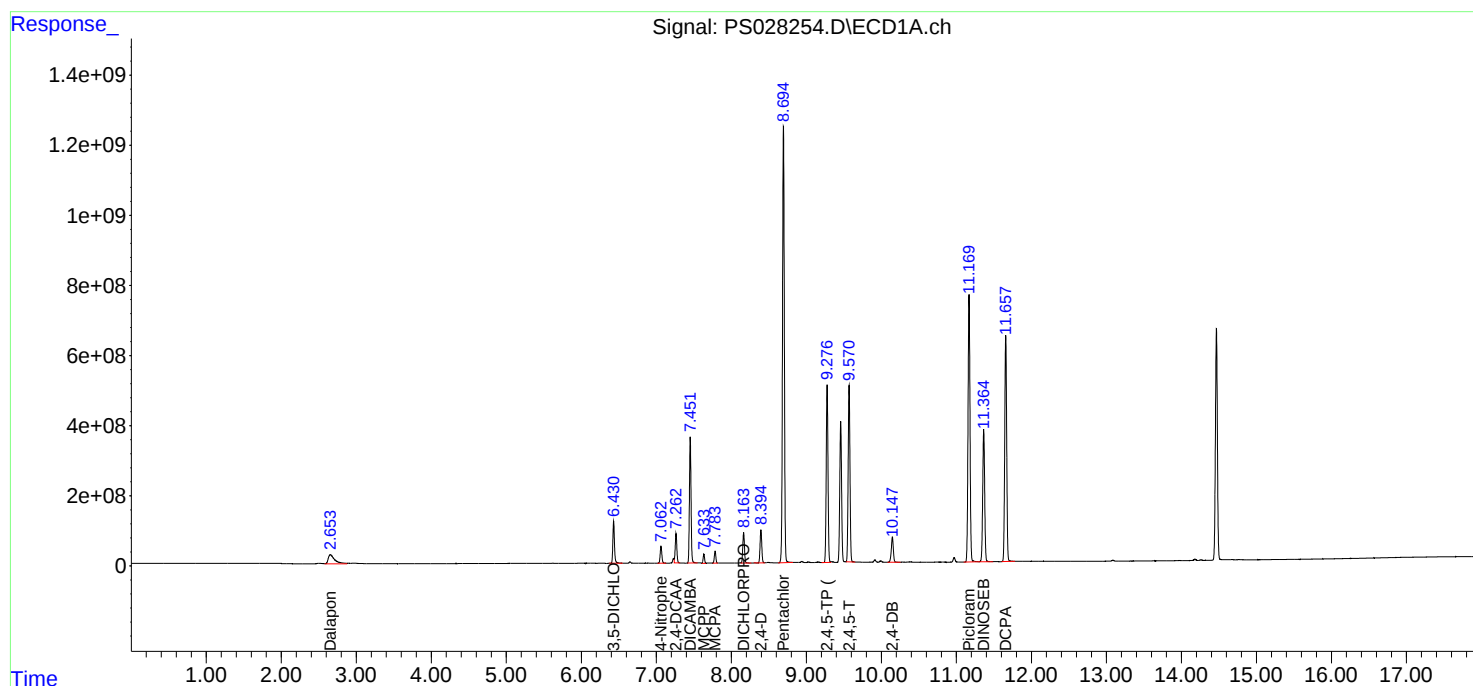
APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 11:33:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:33:01 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028255.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 10:36
 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: Nov 06 11:12:08 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:11:45 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	7.262	7.765	1910.0E6	1298.7E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.653	2.709	2427.3E6	2006.2E6	682.500	682.500
2) T	3,5-DICHL...	6.429	6.715	2591.6E6	1761.8E6	697.500	697.500
3) T	4-Nitroph...	7.061	7.291	1114.6E6	774.4E6	682.500	682.500
5) T	DICAMBA	7.451	7.967	7960.3E6	5749.9E6	705.000	705.000
6) T	MCPD	7.635	8.069	549.9E6	433.1E6	70.500	70.500
7) T	MCPA	7.786	8.315	736.9E6	577.6E6	69.750	69.750
8) T	DICHLORPROP	8.163	8.684	1962.8E6	1411.6E6	705.000	705.000
9) T	2,4-D	8.394	9.015	2202.9E6	1569.5E6	705.000	705.000
10) T	Pentachlo...	8.694	9.547	30716.5E6	21052.6E6	712.500	712.500
11) T	2,4,5-TP ...	9.277	9.923	12163.4E6	8962.4E6	712.500	712.500
12) T	2,4,5-T	9.569	10.344	12395.8E6	8839.8E6	712.500	712.500
13) T	2,4-DB	10.147	10.912	2012.4E6	1132.9E6	712.500	712.500
14) T	DINOSEB	11.364	11.291	10261.0E6	6204.5E6	705.000	705.000
15) T	Picloram	11.169	12.393	21022.4E6	13242.0E6	712.500	712.500
16) T	DCPA	11.657	12.339	17291.9E6	10255.6E6	720.000	720.000

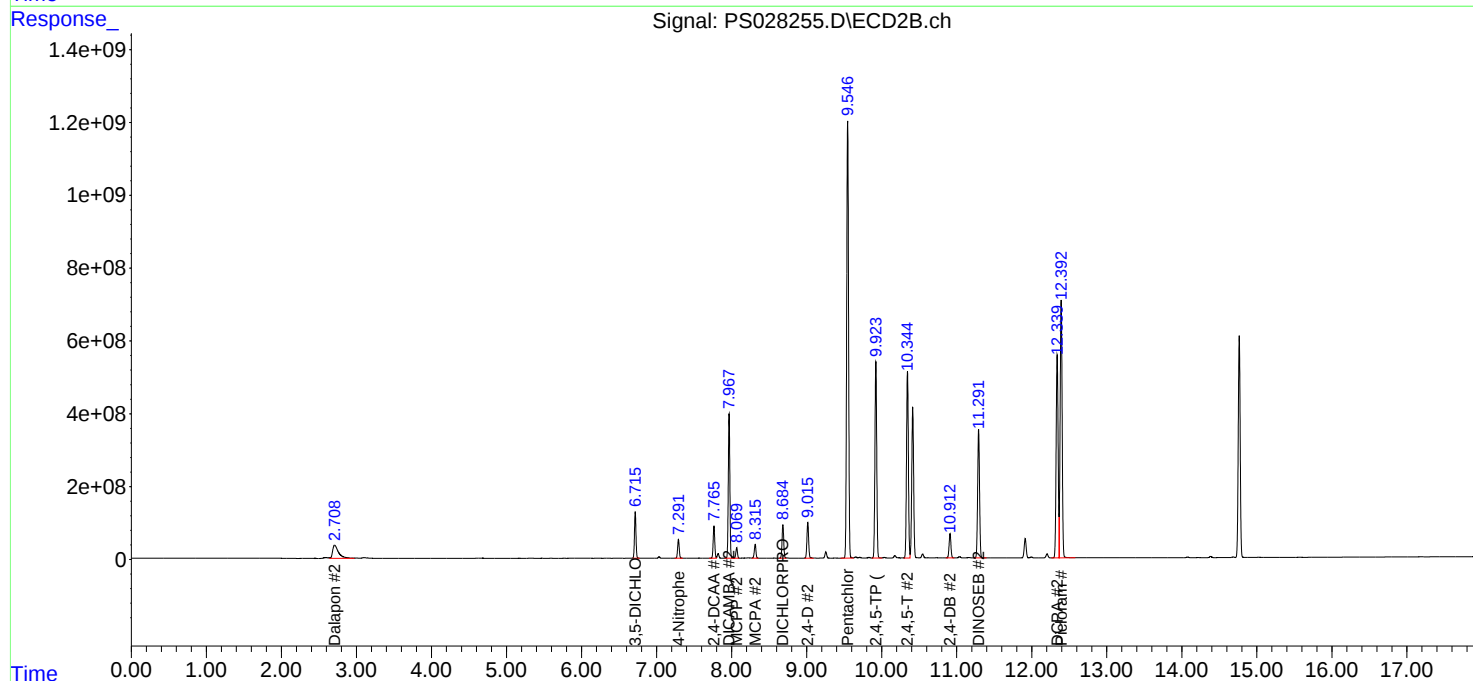
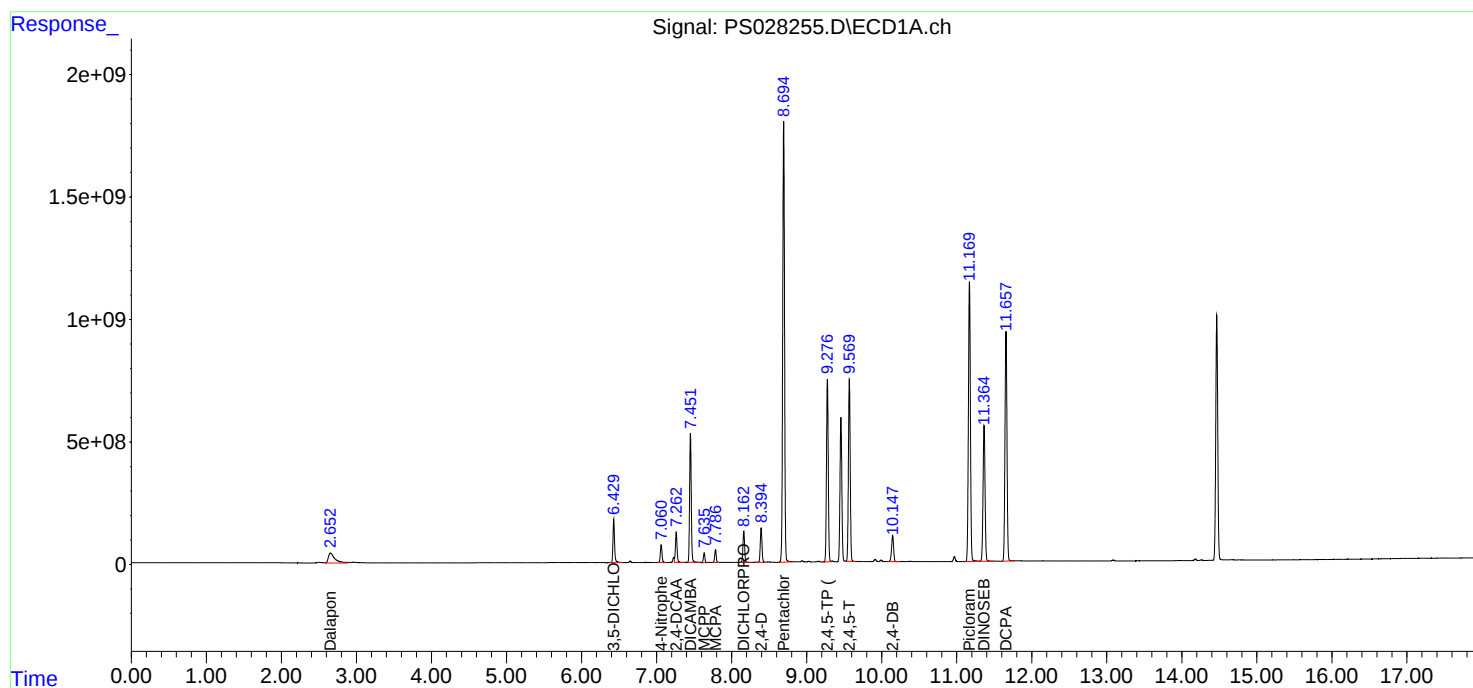
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028255.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 10:36
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: Nov 06 11:12:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:11:45 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028256.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 11:00
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 11:35:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:34:58 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	7.262	7.765	2432.1E6	1690.3E6	975.961m	982.122
Target Compounds							
1) T	Dalapon	2.654	2.711	3271.7E6	2616.2E6	924.484	897.149
2) T	3,5-DICHL...	6.430	6.716	3320.2E6	2292.0E6	897.791	913.929
3) T	4-Nitroph...	7.061	7.291	1451.5E6	1008.8E6	893.624	894.555
5) T	DICAMBA	7.451	7.966	10305.4E6	7545.2E6	920.113	935.276
6) T	MCPD	7.637	8.070	737.2E6	575.3E6	95.823	94.645
7) T	MCPA	7.788	8.317	972.9E6	759.1E6	93.073	92.311
8) T	DICHLORPROP	8.162	8.684	2522.2E6	1845.8E6	909.363	927.122
9) T	2,4-D	8.393	9.015	2832.8E6	2045.3E6	910.203	924.732
10) T	Pentachlo...	8.694	9.546	38630.9E6	26793.0E6	905.074	914.400
11) T	2,4,5-TP ...	9.276	9.922	15615.7E6	11582.4E6	920.331	929.499
12) T	2,4,5-T	9.569	10.344	15926.5E6	11412.0E6	921.290	928.908
13) T	2,4-DB	10.147	10.912	2626.1E6	1496.6E6	936.143	948.946
14) T	DINOSEB	11.365	11.292	13278.9E6	8073.2E6	920.952	925.804
15) T	Picloram	11.169	12.392	27284.2E6	17278.1E6	936.433	944.096
16) T	DCPA	11.657	12.339	22197.4E6	13216.4E6	932.863	937.639

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028256.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 11:00
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

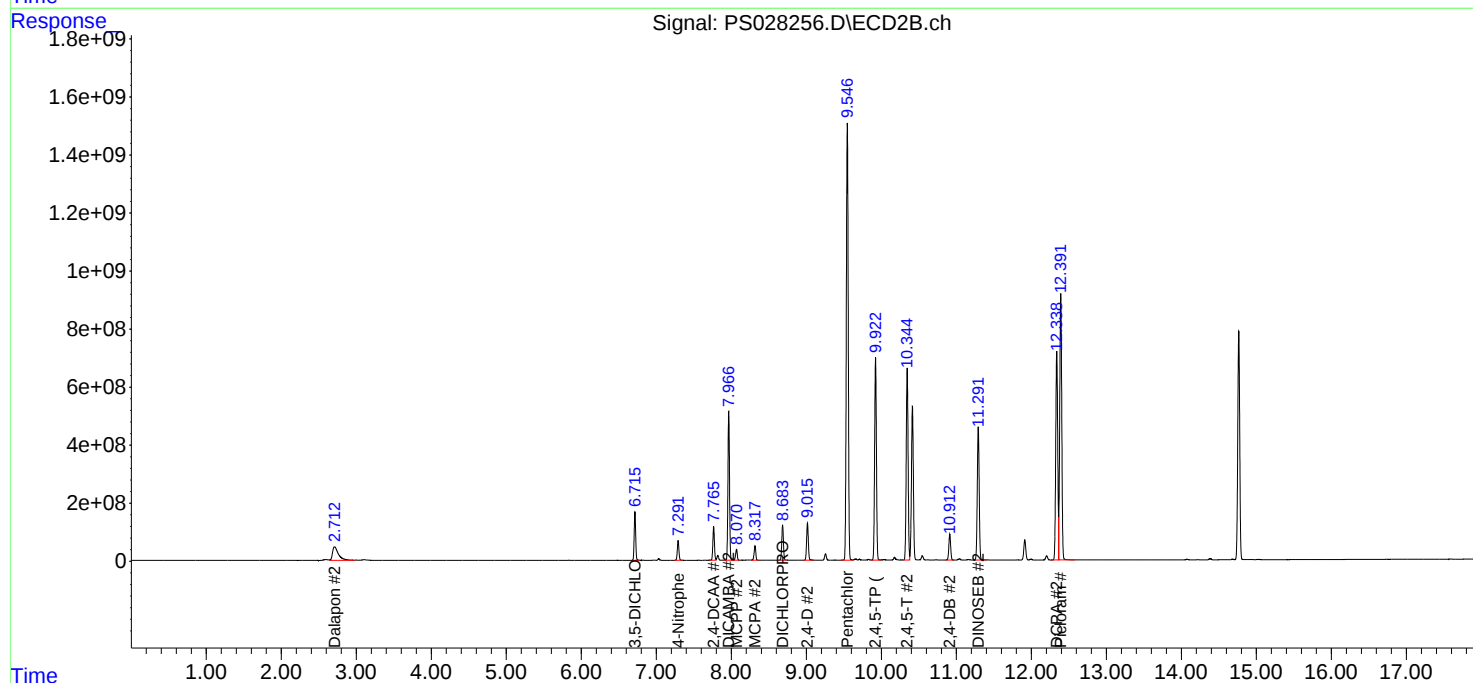
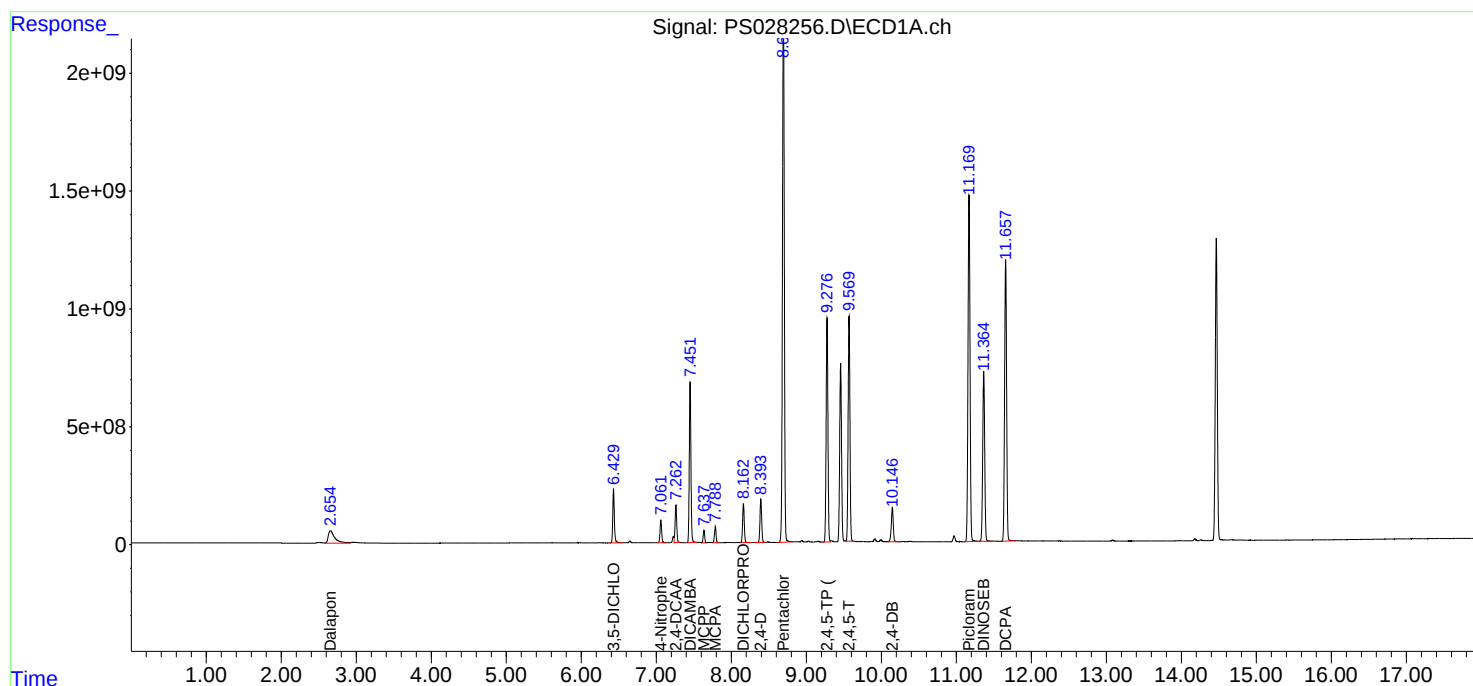
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 11:35:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:34:58 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028257.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 11:24
 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: Nov 06 11:47:23 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:47:11 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	7.263	7.765	3578.7E6	2534.7E6	1397.159	1455.253
Target Compounds							
1) T	Dalapon	2.654	2.710	4981.8E6	3925.2E6	1399.712	1333.953
2) T	3,5-DICHL...	6.430	6.716	4846.4E6	3424.5E6	1292.795	1353.090
3) T	4-Nitroph...	7.062	7.292	2179.8E6	1521.9E6	1323.022	1328.039
5) T	DICAMBA	7.452	7.967	15172.0E6	11276.2E6	1351.202	1403.807
6) T	MCPD	7.641	8.074	1146.8E6	885.2E6	151.249	145.801
7) T	MCPA	7.793	8.322	1484.1E6	1151.7E6	142.554	138.113
8) T	DICHLORPROP	8.163	8.684	3704.4E6	2778.9E6	1313.961	1383.038
9) T	2,4-D	8.394	9.015	4151.5E6	3055.9E6	1315.396	1370.262
10) T	Pentachlo...	8.696	9.546	47081.5E6	37948.1E6	1132.782	1301.165
11) T	2,4,5-TP ...	9.276	9.922	22578.3E6	16928.6E6	1326.135	1360.521
12) T	2,4,5-T	9.570	10.344	23100.9E6	16657.6E6	1332.578	1357.941
13) T	2,4-DB	10.147	10.912	3937.4E6	2277.8E6	1393.030	1437.213
14) T	DINOSEB	11.364	11.291	19623.9E6	11997.1E6	1357.212	1375.556
15) T	Picloram	11.169	12.392	40302.3E6	25436.4E6	1389.789	1410.611
16) T	DCPA	11.657	12.339	32077.6E6	19195.1E6	1350.108	1370.053

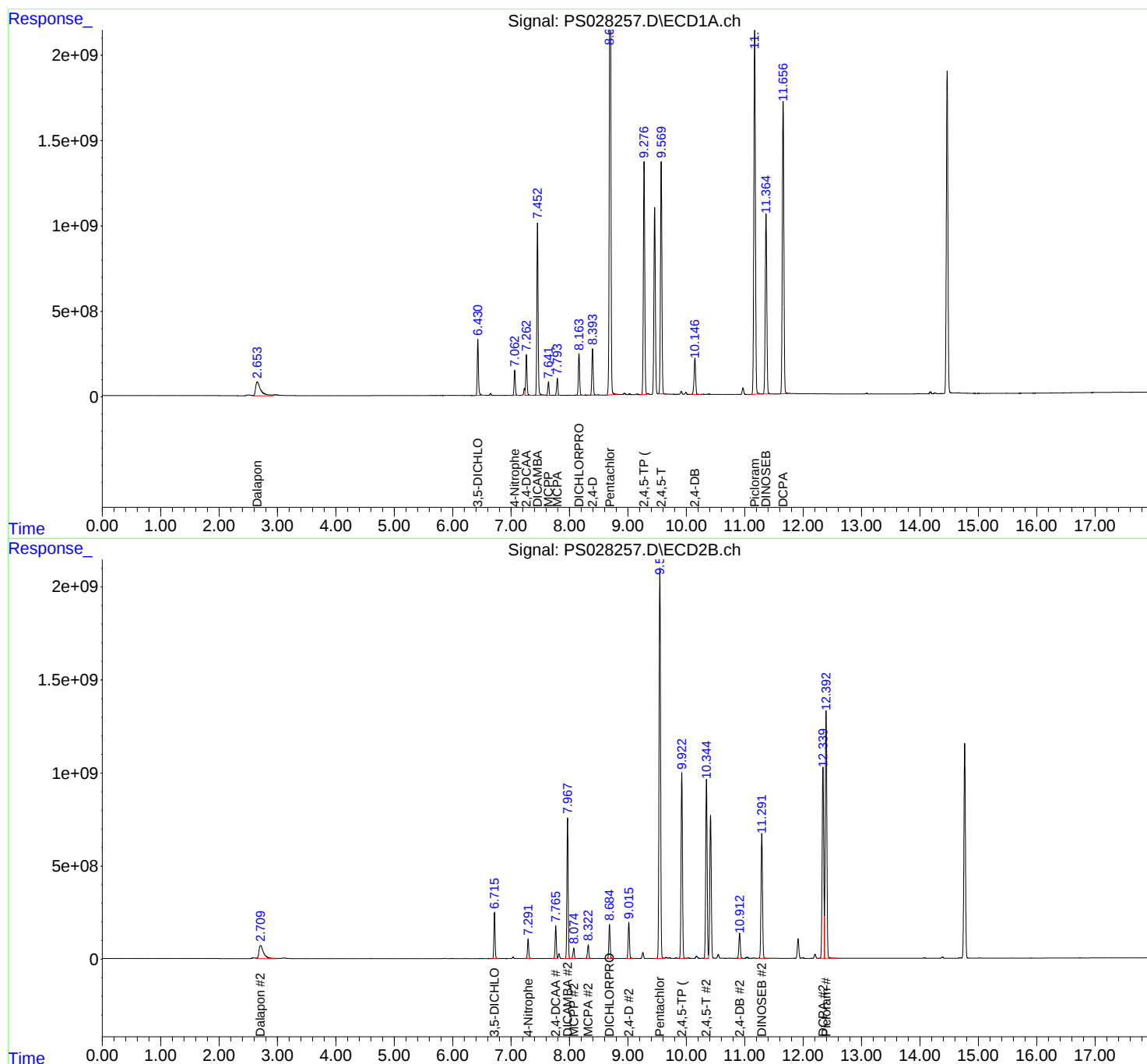
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028257.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 11:24
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: Nov 06 11:47:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:47:11 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028258.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 11:48
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS110624

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 12:11:51 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.262	7.765	1909.2E6	1293.6E6	745.363m	742.673
Target Compounds							
1) T	Dalapon	2.654	2.709	2373.4E6	1927.9E6	666.847	655.176
2) T	3,5-DICHL...	6.430	6.715	2570.6E6	1755.0E6	685.711	693.418
3) T	4-Nitroph...	7.062	7.292	1107.2E6	767.5E6	672.021	669.796
5) T	DICAMBA	7.452	7.967	7889.1E6	5731.6E6	702.591	713.550
6) T	MCPD	7.636	8.068	542.8E6	432.6E6	71.588	71.259
7) T	MCPA	7.786	8.314	725.3E6	577.6E6	69.669	69.262
8) T	DICHLORPROP	8.163	8.684	1952.7E6	1408.3E6	692.610	700.894
9) T	2,4-D	8.394	9.015	2195.2E6	1559.6E6	695.547	699.350
10) T	Pentachlo...	8.694	9.546	30589.2E6	20926.4E6	735.976	717.525
11) T	2,4,5-TP ...	9.277	9.922	12149.8E6	8927.5E6	713.618	717.488
12) T	2,4,5-T	9.570	10.344	12376.6E6	8776.4E6	713.944	715.459
13) T	2,4-DB	10.147	10.912	2007.4E6	1125.1E6	710.202	709.878
14) T	DINOSEB	11.365	11.291	10291.5E6	6191.3E6	711.775	709.875
15) T	Picloram	11.170	12.392	20981.7E6	13132.8E6	723.535	728.298
16) T	DCPA	11.657	12.338	17237.5E6	10137.8E6	725.504	723.586

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028258.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 11:48
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

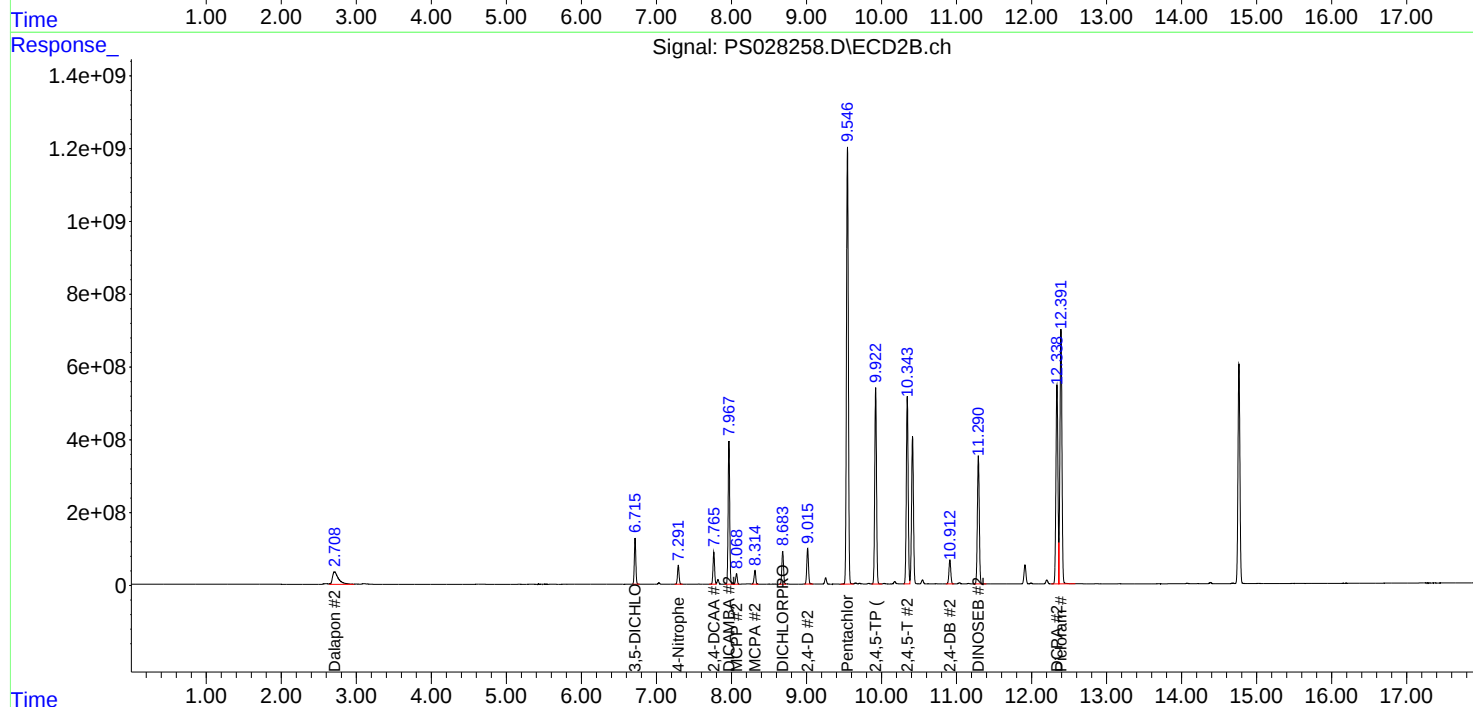
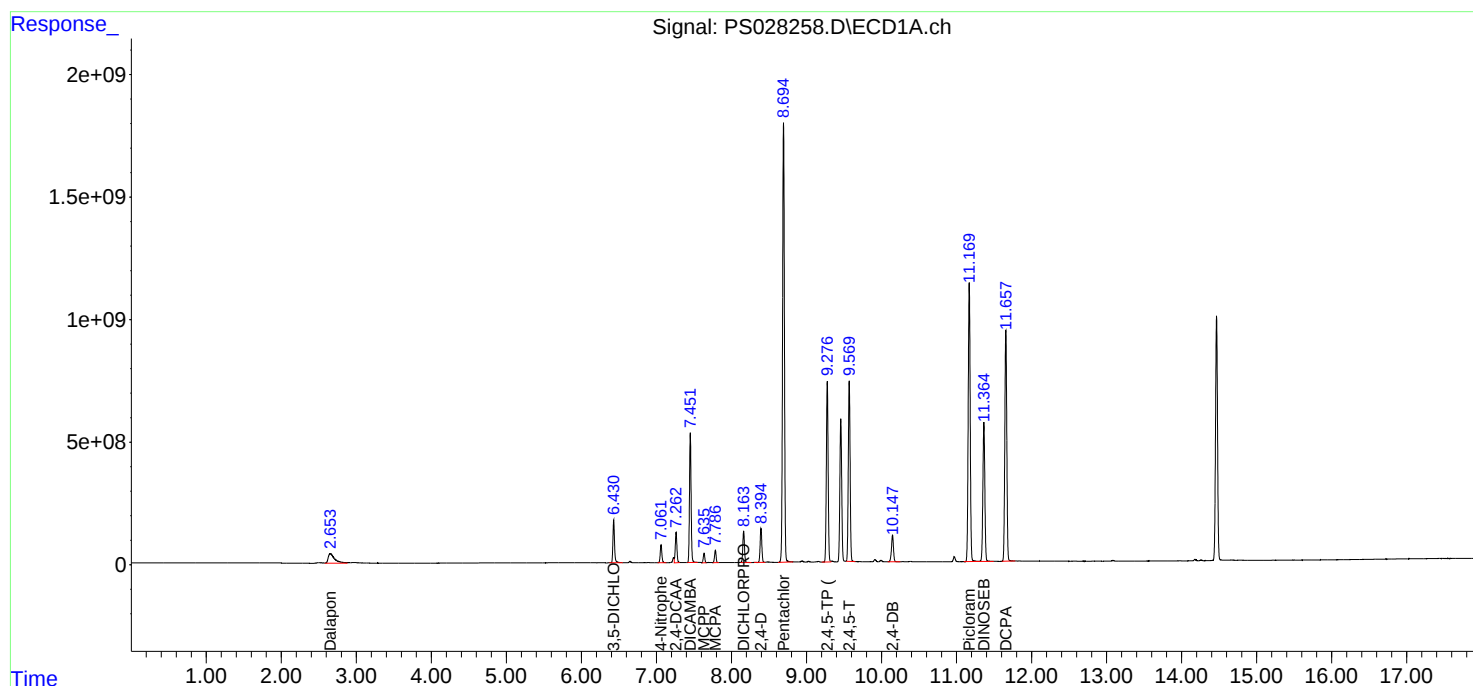
Instrument :
ECD_S
ClientSampleId :
ICVPS110624

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/08/2024
Supervised By : Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 12:11:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

Continuing Calib Date: 11/07/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 09:52 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.27	9.28	9.18	9.38	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

Continuing Calib Date: 11/07/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 09:52 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL01 Date Analyzed: 11/07/2024

Lab Sample No.: HSTDCCC750 Data File : PS028309.D Time Analyzed: 09:52

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.269	9.177	9.377	775.150	712.500	8.8
2,4-D	8.387	8.294	8.494	754.140	705.000	7.0
2,4-DCAA	7.256	7.162	7.362	795.060	750.000	6.0



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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL01 Date Analyzed: 11/07/2024

Lab Sample No.: HSTDCCC750 Data File : PS028309.D Time Analyzed: 09:52

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.917	9.823	10.023	695.710	712.500	-2.4
2,4-D	9.010	8.915	9.115	678.350	705.000	-3.8
2,4-DCAA	7.761	7.665	7.865	740.370	750.000	-1.3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028309.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 09:52
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 07 10:27:48 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.256	7.761	2036.5E6	1289.6E6	795.059	740.371
Target Compounds							
1) T	Dalapon	2.650	2.708	2423.5E6	2052.1E6	680.923	697.403
2) T	3,5-DICHL...	6.425	6.711	2723.8E6	1765.1E6	726.574	697.437
3) T	4-Nitroph...	7.056	7.287	1189.2E6	738.8E6	721.801	644.683
5) T	DICAMBA	7.446	7.962	8465.2E6	5742.4E6	753.898	714.887
6) T	MCPD	7.629	8.064	590.5E6	443.6E6	77.883	73.068
7) T	MCPA	7.780	8.310	785.9E6	584.4E6	75.486	70.089
8) T	DICHLORPROP	8.156	8.679	2128.5E6	1385.8E6	754.970	689.694
9) T	2,4-D	8.387	9.010	2380.2E6	1512.8E6	754.145	678.354
10) T	Pentachlo...	8.687	9.541	33121.5E6	20207.8E6	796.906	692.886
11) T	2,4,5-TP ...	9.269	9.917	13197.5E6	8656.5E6	775.152	695.706
12) T	2,4,5-T	9.560	10.339	13509.4E6	8396.5E6	779.291m	684.491
13) T	2,4-DB	10.138	10.906	2178.7E6	1047.6E6	770.818	661.017
14) T	DINOSEB	11.355	11.286	11238.2E6	5813.3E6	777.246	666.537
15) T	Picloram	11.160	12.386	22125.5E6	11844.6E6	762.978	656.859
16) T	DCPA	11.647	12.333	18767.9E6	9312.2E6	789.919	664.656

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028309.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 09:52
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

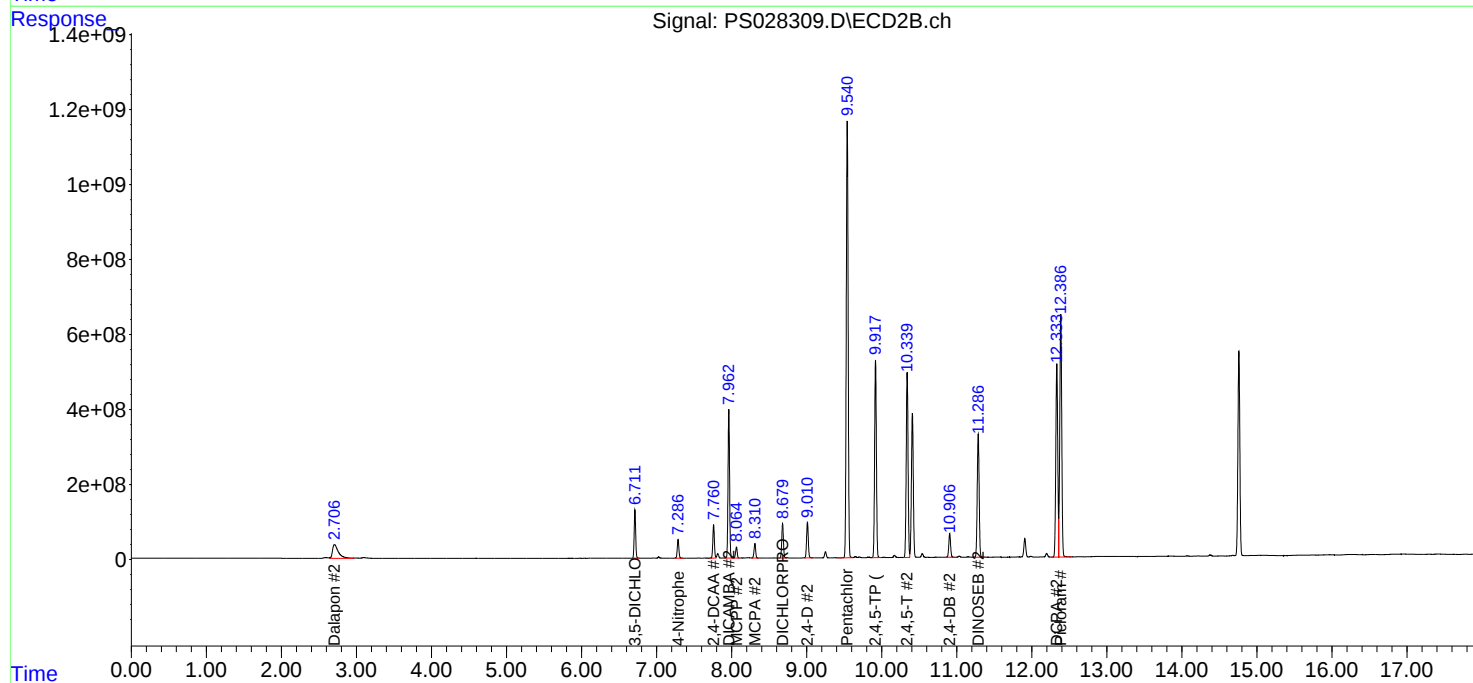
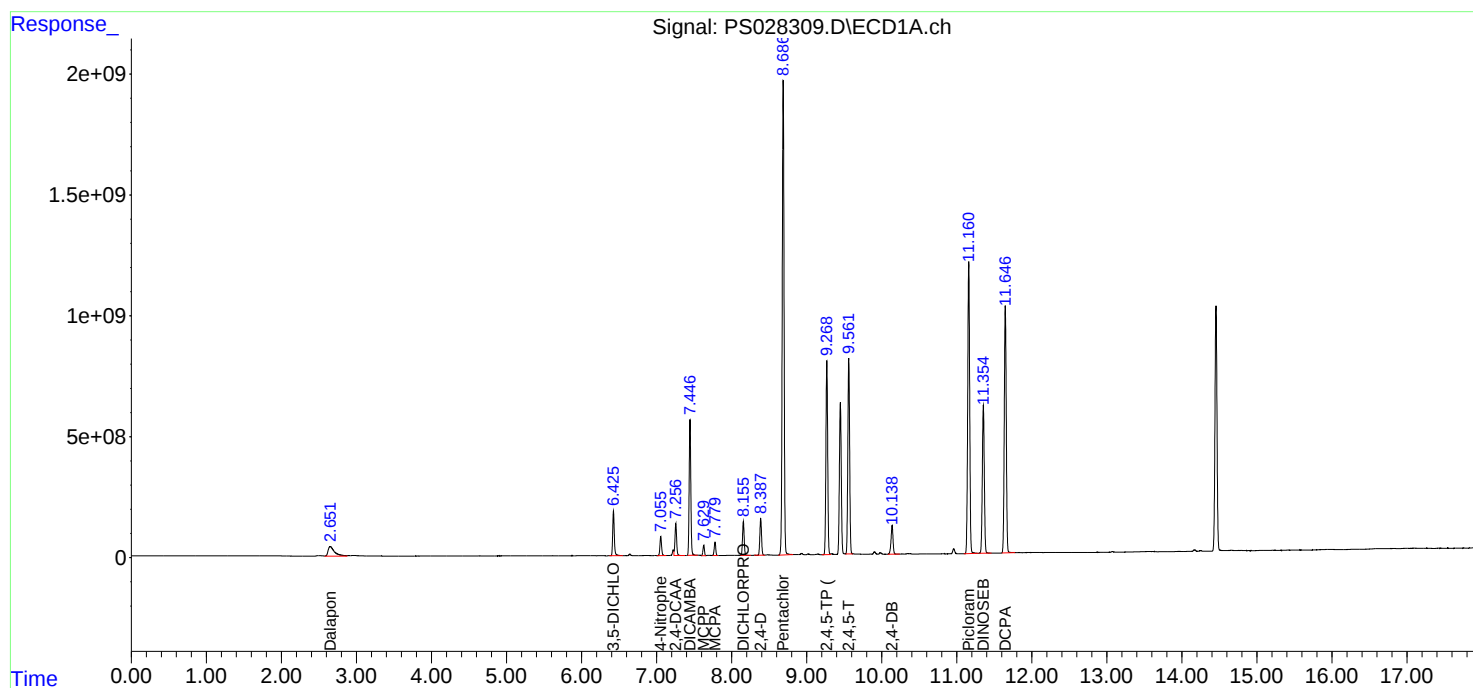
APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 10:27:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

Continuing Calib Date: 11/07/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 14:16 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.26	7.26	7.16	7.36	0.00
2,4-D	8.39	8.39	8.29	8.49	0.00
2,4,5-TP(Silvex)	9.27	9.28	9.18	9.38	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

Continuing Calib Date: 11/07/2024 Initial Calibration Date(s): 11/06/2024 11/06/2024

Continuing Calib Time: 14:16 Initial Calibration Time(s): 09:48 11:24

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
2,4-D	9.01	9.02	8.92	9.12	0.01
2,4,5-TP(Silvex)	9.92	9.92	9.82	10.02	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL02 Date Analyzed: 11/07/2024

Lab Sample No.: HSTDCCC750 Data File : PS028320.D Time Analyzed: 14:16

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.268	9.177	9.377	786.780	712.500	10.4
2,4-D	8.386	8.294	8.494	760.070	705.000	7.8
2,4-DCAA	7.256	7.162	7.362	800.400	750.000	6.7



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

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: P4660 SAS No.: P4660 SDG NO.: P4660

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/06/2024 11/06/2024

Client Sample No.: CCAL02 Date Analyzed: 11/07/2024

Lab Sample No.: HSTDCCC750 Data File : PS028320.D Time Analyzed: 14:16

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.917	9.823	10.023	687.890	712.500	-3.5
2,4-D	9.010	8.915	9.115	670.180	705.000	-4.9
2,4-DCAA	7.761	7.665	7.865	730.880	750.000	-2.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028320.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 14:16
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 08 00:45:26 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.256	7.761	2050.1E6	1273.0E6	800.397	730.883
Target Compounds							
1) T	Dalapon	2.649	2.705	2463.4E6	2022.7E6	692.123	687.422
2) T	3,5-DICHL...	6.425	6.711	2752.2E6	1738.5E6	734.159	686.897
3) T	4-Nitroph...	7.055	7.287	1204.5E6	732.2E6	731.065	638.933
5) T	DICAMBA	7.445	7.962	8498.2E6	5658.8E6	756.836	704.483
6) T	MCPD	7.629	8.064	599.5E6	439.8E6	79.064	72.436
7) T	MCPA	7.779	8.310	796.5E6	578.9E6	76.509	69.419
8) T	DICHLORPROP	8.155	8.679	2156.2E6	1368.8E6	764.788	681.235
9) T	2,4-D	8.386	9.010	2398.9E6	1494.6E6	760.074m	670.180
10) T	Pentachlo...	8.686	9.541	33652.9E6	20011.4E6	809.689	686.153
11) T	2,4,5-TP ...	9.268	9.917	13395.5E6	8559.2E6	786.785	687.886
12) T	2,4,5-T	9.560	10.339	13665.2E6	8299.3E6	788.280m	676.568
13) T	2,4-DB	10.138	10.906	2215.5E6	1040.3E6	783.827	656.404
14) T	DINOSEB	11.354	11.286	11370.1E6	5696.1E6	786.367	653.096
15) T	Picloram	11.159	12.385	22534.7E6	11766.0E6	777.089	652.500
16) T	DCPA	11.646	12.333	19161.5E6	9193.1E6	806.486	656.156

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028320.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 14:16
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

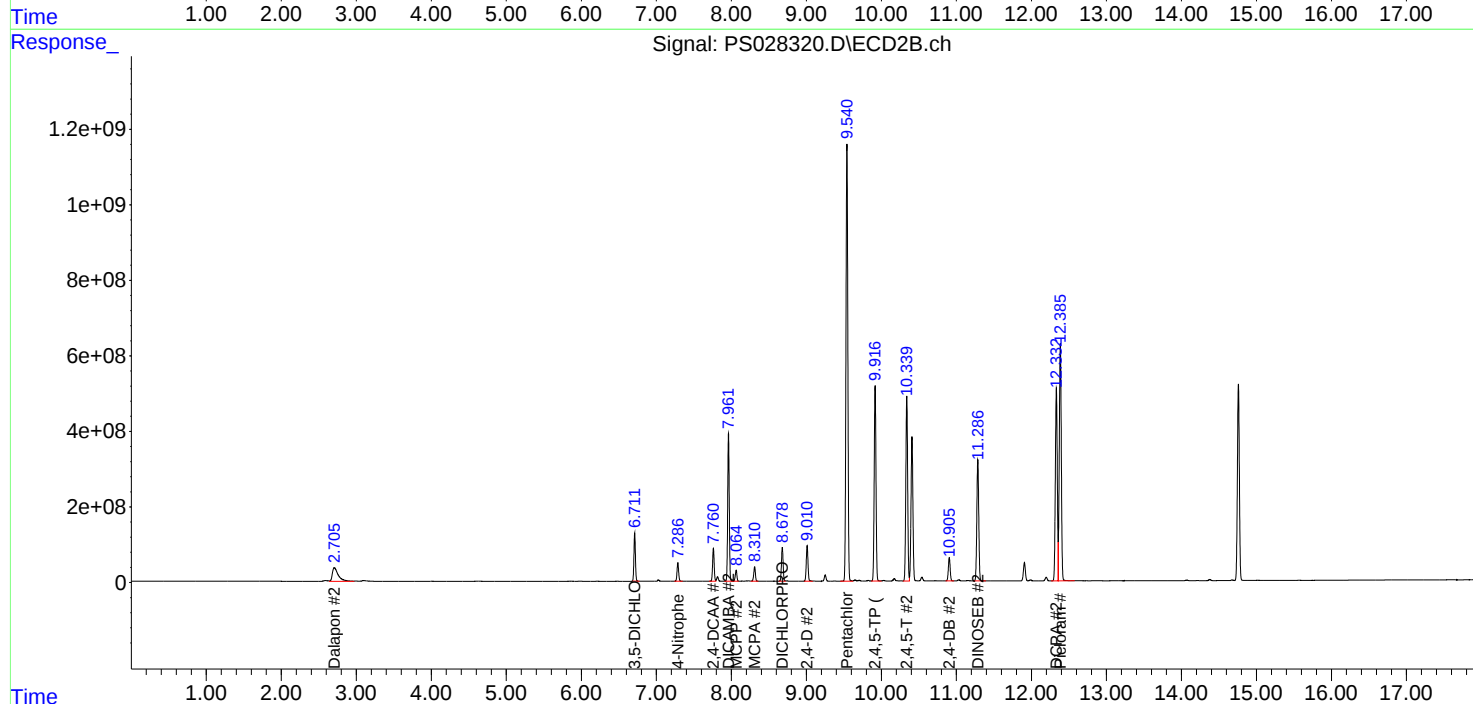
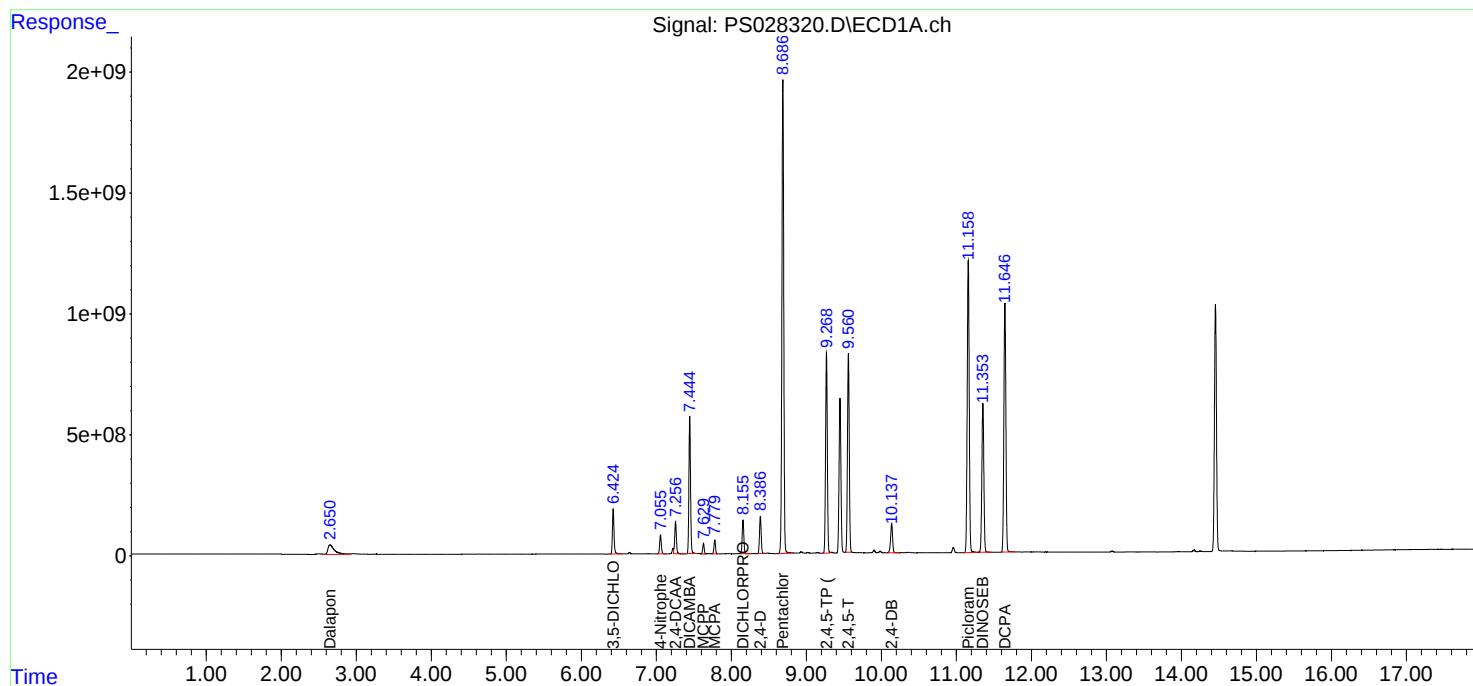
APPROVED

Reviewed By :Abdul Mirza 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 00:45:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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



Analytical Sequence

Client: ENTACT	SDG No.: P4660
Project: 540 Degraw St, Brooklyn, NY - E9309	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 11/06/2024 11/06/2024

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 #
LBLK	LBLK	11/06/2024	09:24	PS028252.D	7.26	0.00
HSTDICC200	HSTDICC200	11/06/2024	09:48	PS028253.D	7.26	0.00
HSTDICC500	HSTDICC500	11/06/2024	10:12	PS028254.D	7.26	0.00
HSTDICC750	HSTDICC750	11/06/2024	10:36	PS028255.D	7.26	0.00
HSTDICC1000	HSTDICC1000	11/06/2024	11:00	PS028256.D	7.26	0.00
HSTDICC1500	HSTDICC1500	11/06/2024	11:24	PS028257.D	7.26	0.00
LBLK	LBLK	11/07/2024	09:28	PS028308.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	09:52	PS028309.D	7.26	0.00
WC-TA2-01-C	P4660-03	11/07/2024	10:16	PS028310.D	7.26	0.00
WC-WOOD-01-C	P4660-07	11/07/2024	10:40	PS028311.D	7.26	0.00
WC-CONCRETE-01-C	P4660-11	11/07/2024	11:04	PS028312.D	7.26	0.00
WC-TA2-01-CMS	P4660-03MS	11/07/2024	11:28	PS028313.D	7.26	0.00
WC-TA2-01-CMSD	P4660-03MSD	11/07/2024	11:52	PS028314.D	7.26	0.00
PB164752BL	PB164752BL	11/07/2024	12:16	PS028315.D	7.26	0.00
PB164752BS	PB164752BS	11/07/2024	12:40	PS028316.D	7.26	0.00
PB164560TB	PB164560TB	11/07/2024	13:04	PS028317.D	7.26	0.00
LBLK	LBLK	11/07/2024	13:52	PS028319.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	14:16	PS028320.D	7.26	0.00

Analytical Sequence

Client: ENTACT	SDG No.: P4660
Project: 540 Degraw St, Brooklyn, NY - E9309	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 11/06/2024 11/06/2024

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 #
LBLK	LBLK	11/06/2024	09:24	PS028252.D	7.76	0.00
HSTDICC200	HSTDICC200	11/06/2024	09:48	PS028253.D	7.77	0.00
HSTDICC500	HSTDICC500	11/06/2024	10:12	PS028254.D	7.77	0.00
HSTDICC750	HSTDICC750	11/06/2024	10:36	PS028255.D	7.77	0.00
HSTDICC1000	HSTDICC1000	11/06/2024	11:00	PS028256.D	7.77	0.00
HSTDICC1500	HSTDICC1500	11/06/2024	11:24	PS028257.D	7.77	0.00
LBLK	LBLK	11/07/2024	09:28	PS028308.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	09:52	PS028309.D	7.76	0.00
WC-TA2-01-C	P4660-03	11/07/2024	10:16	PS028310.D	7.76	0.00
WC-WOOD-01-C	P4660-07	11/07/2024	10:40	PS028311.D	7.76	0.00
WC-CONCRETE-01-C	P4660-11	11/07/2024	11:04	PS028312.D	7.76	0.00
WC-TA2-01-CMS	P4660-03MS	11/07/2024	11:28	PS028313.D	7.76	0.00
WC-TA2-01-CMSD	P4660-03MSD	11/07/2024	11:52	PS028314.D	7.76	0.00
PB164752BL	PB164752BL	11/07/2024	12:16	PS028315.D	7.76	0.00
PB164752BS	PB164752BS	11/07/2024	12:40	PS028316.D	7.76	0.00
PB164560TB	PB164560TB	11/07/2024	13:04	PS028317.D	7.76	0.00
LBLK	LBLK	11/07/2024	13:52	PS028319.D	7.76	0.00
HSTDCCC750	HSTDCCC750	11/07/2024	14:16	PS028320.D	7.76	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164752BS

Contract: ENTA05

Lab Code: CHEM

Case No.: P4660

SAS No.: P4660

SDG NO.: P4660

Lab Sample ID: PB164752BS

Date(s) Analyzed: 11/07/2024

11/07/2024

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		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.39	8.34	8.44	5.30	14.1
	2	9.01	8.96	9.06	4.60	
2,4,5-TP(Silvex)	1	9.27	9.22	9.32	5.50	15.7
	2	9.92	9.87	9.97	4.70	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-TA2-01-CMS

Contract: ENTA05

Lab Code: CHEM

Case No.: P4660

SAS No.: P4660

SDG NO.: P4660

Lab Sample ID: P4660-03MS

Date(s) Analyzed: 11/07/2024

11/07/2024

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		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.39	8.34	8.44	50.3	8.1
	2	9.01	8.96	9.06	46.4	
2,4,5-TP(Silvex)	1	9.27	9.22	9.32	50.1	5.4
	2	9.92	9.87	9.97	52.9	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-TA2-01-CMSD

Contract: ENTA05

Lab Code: CHEM

Case No.: P4660

SAS No.: P4660

SDG NO.: P4660

Lab Sample ID: P4660-03MSD

Date(s) Analyzed: 11/07/2024

11/07/2024

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		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.39	8.34	8.44	53.9	7.7
	2	9.01	8.96	9.06	49.9	
2,4,5-TP(Silvex)	1	9.27	9.22	9.32	53.7	8.6
	2	9.92	9.87	9.97	58.5	



QC SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB164752BL	SDG No.:	P4660
Lab Sample ID:	PB164752BL	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
PS028315.D	1	11/06/24 09:34	11/07/24 12:16	PB164752

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	570		70 (39) - 130 (175)	114%	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\PS110624\
Data File : PS028315.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 12:16
Operator : AR\AJ
Sample : PB164752BL
Misc :
ALS Vial : 86 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164752BL

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 03:10:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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	7.256	7.759	1459.9E6	858.8E6	569.951	493.056m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028315.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 12:16
Operator : AR\AJ
Sample : PB164752BL
Misc :
ALS Vial : 86 Sample Multiplier: 1

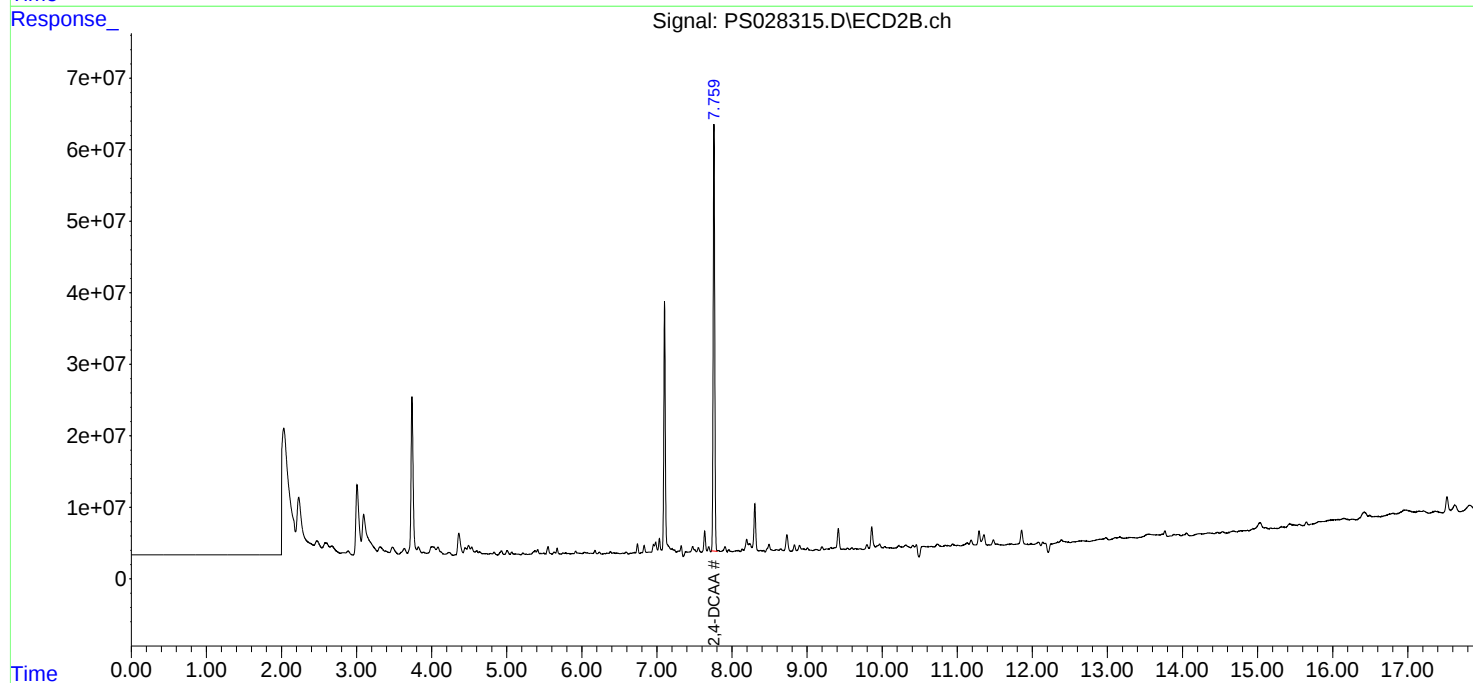
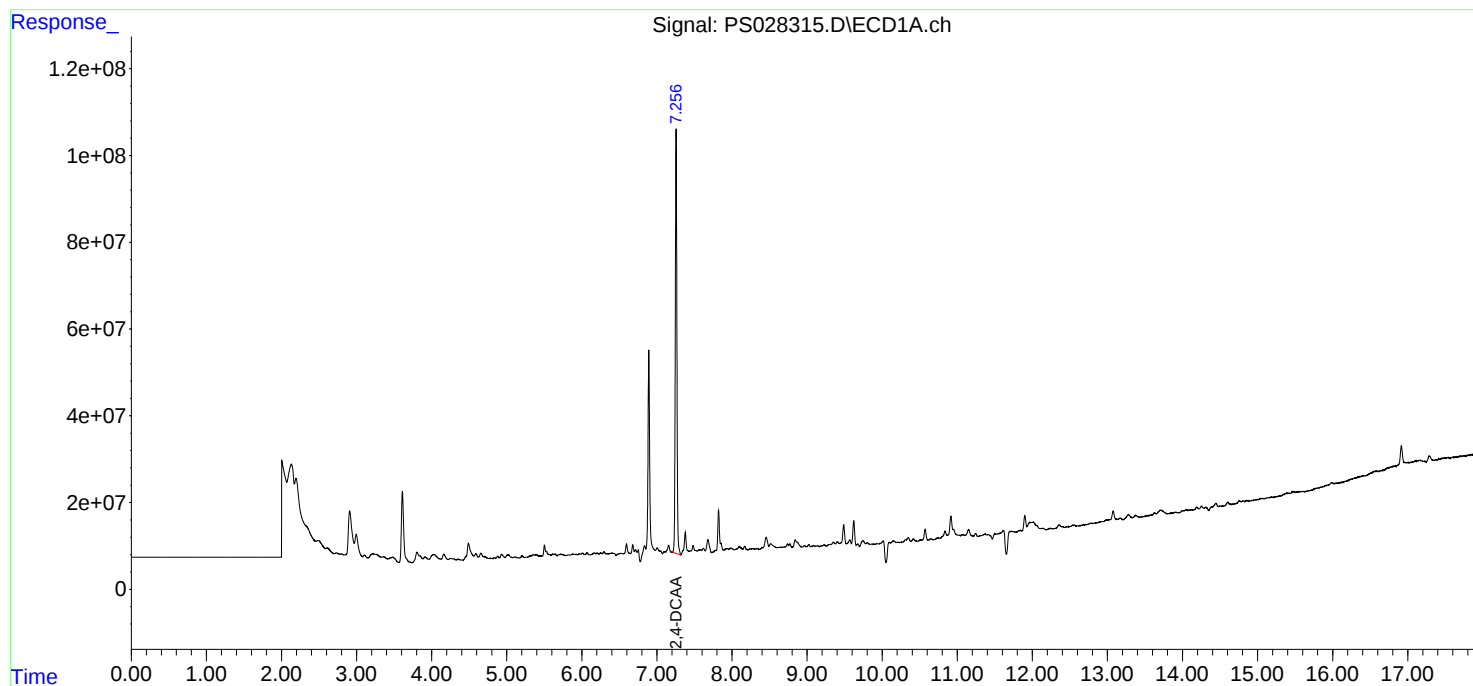
Instrument :
ECD_S
ClientSampleId :
PB164752BL

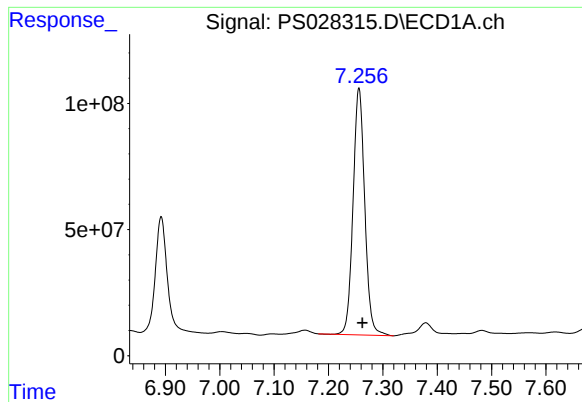
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/08/2024
Supervised By : Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 03:10:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





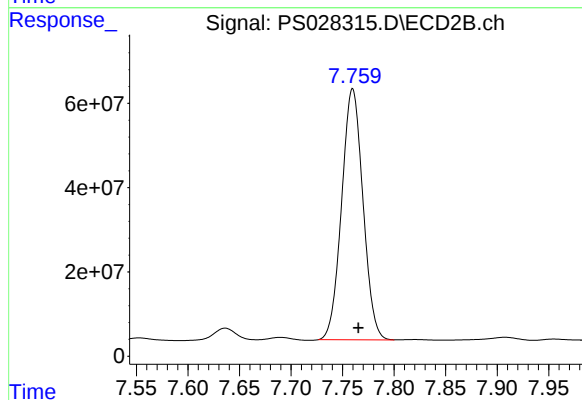
#4 2,4-DCAA

R.T.: 7.256 min
Delta R.T.: -0.006 min
Response: 1459880729
Conc: 569.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164752BL

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



#4 2,4-DCAA

R.T.: 7.759 min
Delta R.T.: -0.006 min
Response: 858794572
Conc: 493.06 ng/ml m

Report of Analysis

Client:	ENTACT			Date Collected:	11/06/24		
Project:	540 Degraw St, Brooklyn, NY - E9309			Date Received:	11/06/24		
Client Sample ID:	PIBLK-PS028252.D			SDG No.:	P4660		
Lab Sample ID:	I.BLK-PS028252.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
PS028252.D	1		11/06/24	PS110624

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	491		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 OC 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\PS110624\
Data File : PS028252.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 09:24
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: Nov 06 11:48:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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	7.262	7.764	1253.5E6	855.9E6	489.362	491.394

Target Compounds

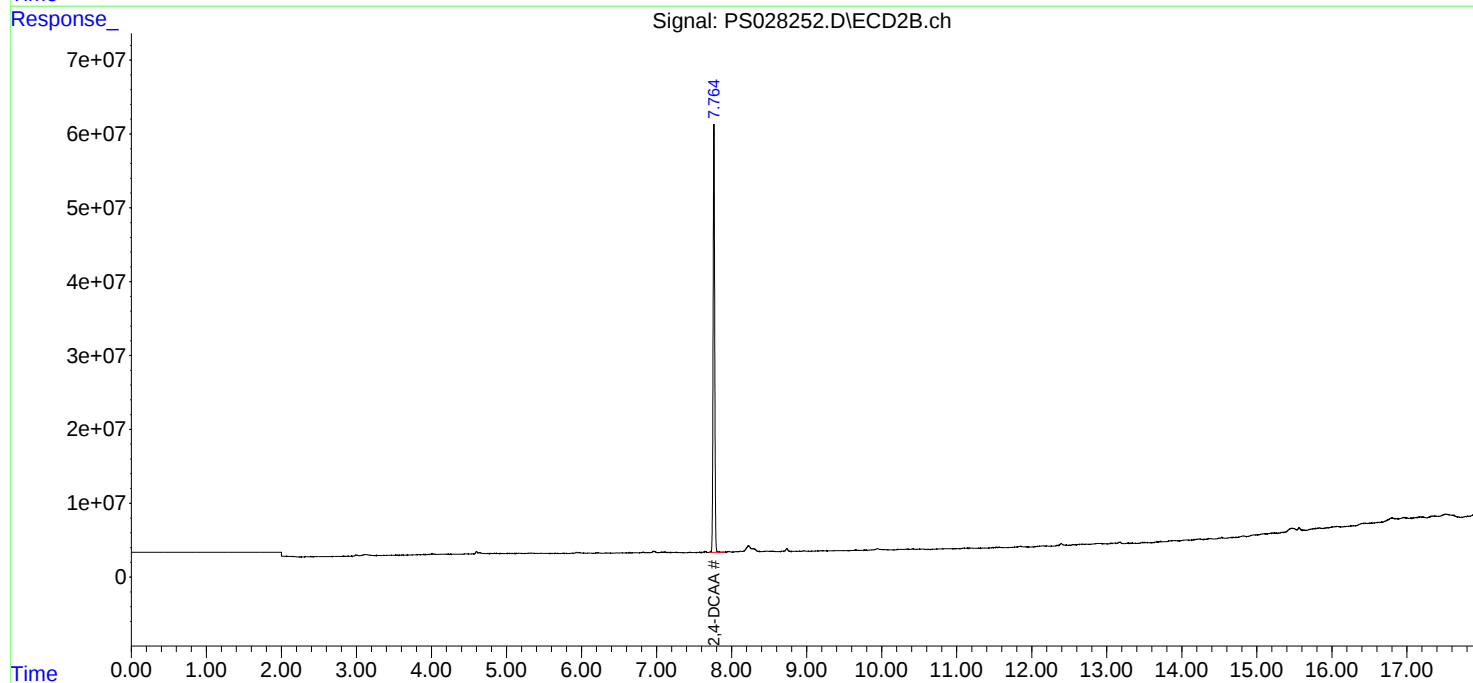
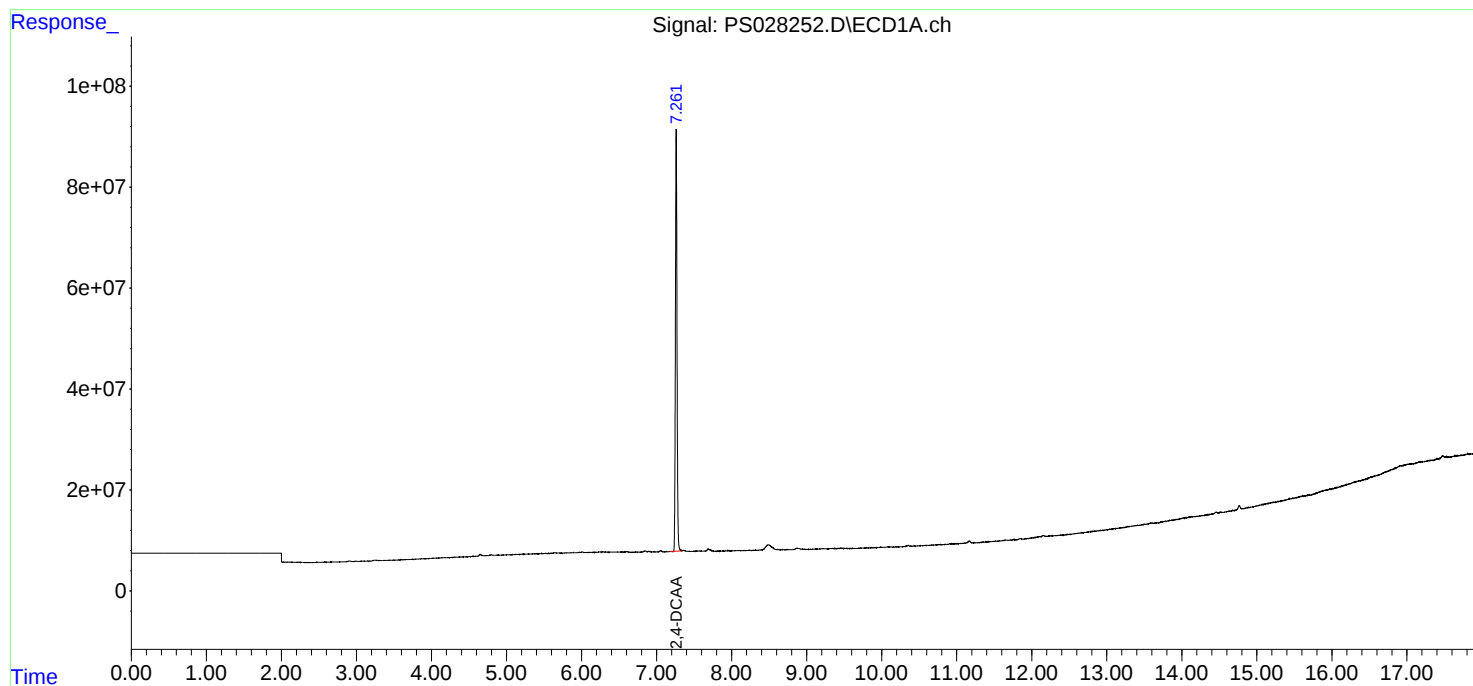
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028252.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 09:24
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

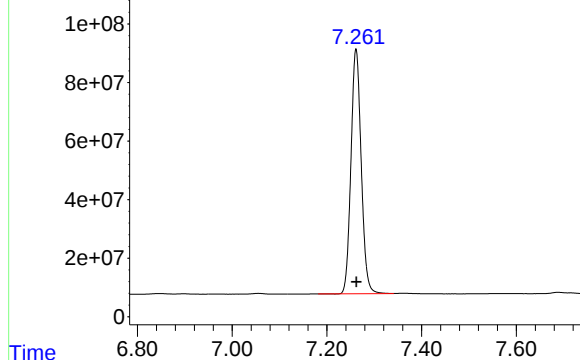
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 11:48:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Signal: PS028252.D\ECD1A.ch

#4 2,4-DCAA

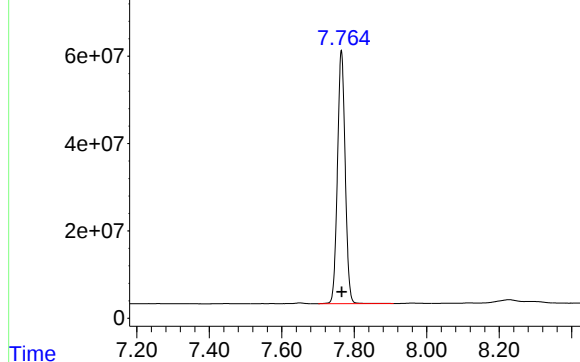


R.T.: 7.262 min
Delta R.T.: 0.000 min
Response: 1253458597
Conc: 489.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028252.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.764 min
Delta R.T.: 0.000 min
Response: 855899732
Conc: 491.39 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	11/07/24
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	11/07/24
Client Sample ID:	PIBLK-PS028308.D	SDG No.:	P4660
Lab Sample ID:	I.BLK-PS028308.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
PS028308.D	1		11/07/24	PS110624

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	526		70 (39) - 130 (175)	105%	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\PS110624\
Data File : PS028308.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 09:28
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: Nov 07 10:27:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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	7.257	7.760	1346.1E6	851.9E6	525.516	489.123

Target Compounds

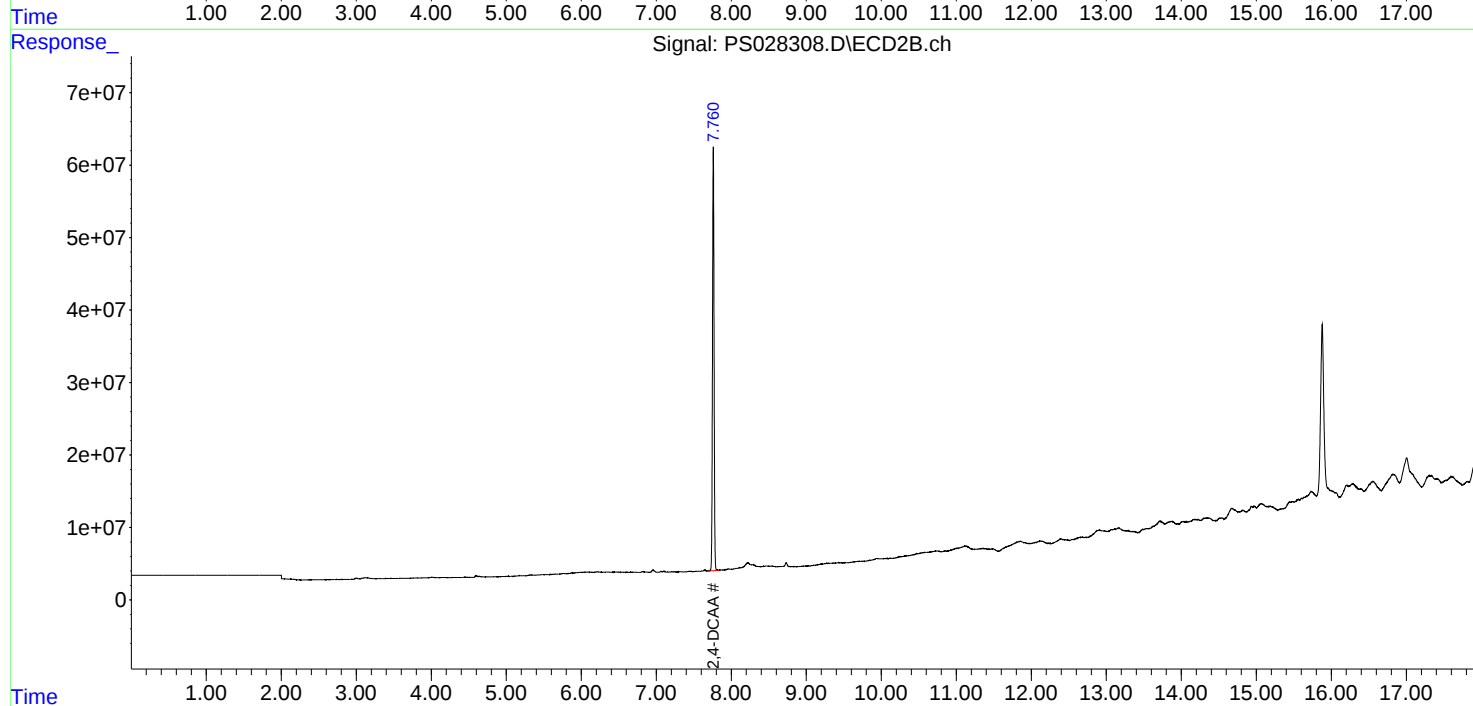
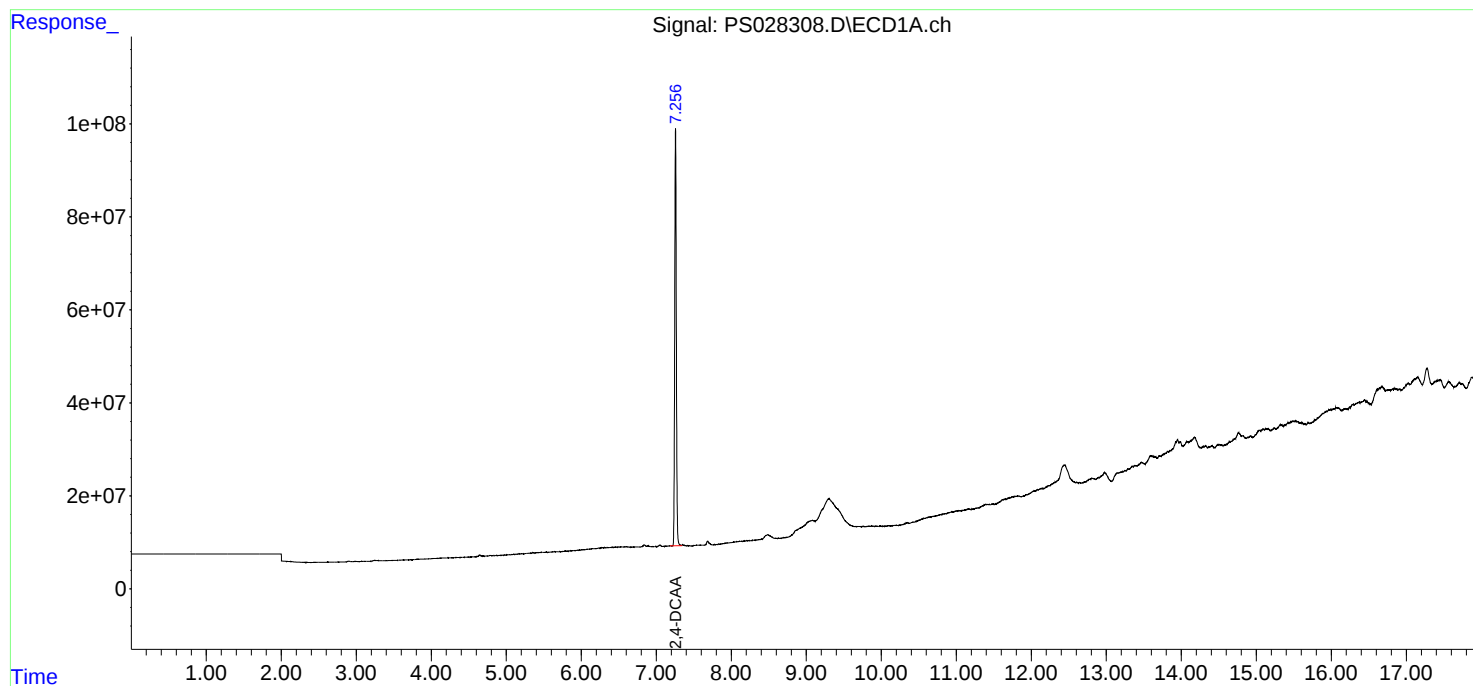
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028308.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 09:28
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

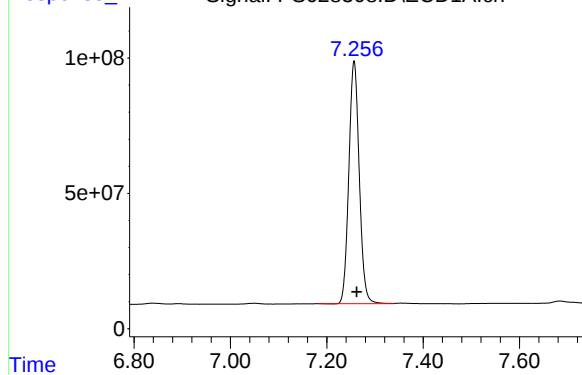
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 10:27:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Signal: PS028308.D\ECD1A.ch

#4 2,4-DCAA

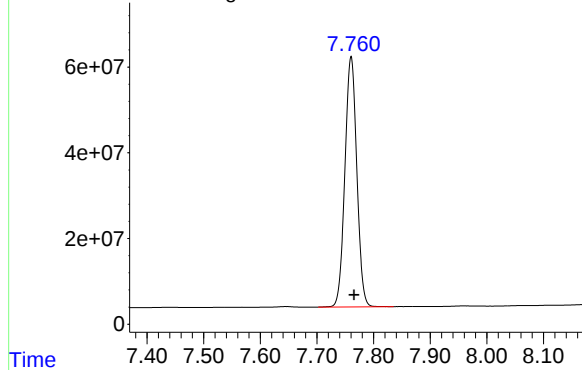


R.T.: 7.257 min
Delta R.T.: -0.006 min
Response: 1346064203
Conc: 525.52 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028308.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.760 min
Delta R.T.: -0.005 min
Response: 851944014
Conc: 489.12 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	11/07/24
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	11/07/24
Client Sample ID:	PIBLK-PS028319.D	SDG No.:	P4660
Lab Sample ID:	I.BLK-PS028319.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
PS028319.D	1		11/07/24	PS110624

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	540		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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
 Data File : PS028319.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 13:52
 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: Nov 08 03:14:04 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.255	7.760	1383.8E6	852.4E6	540.240	489.376

Target Compounds

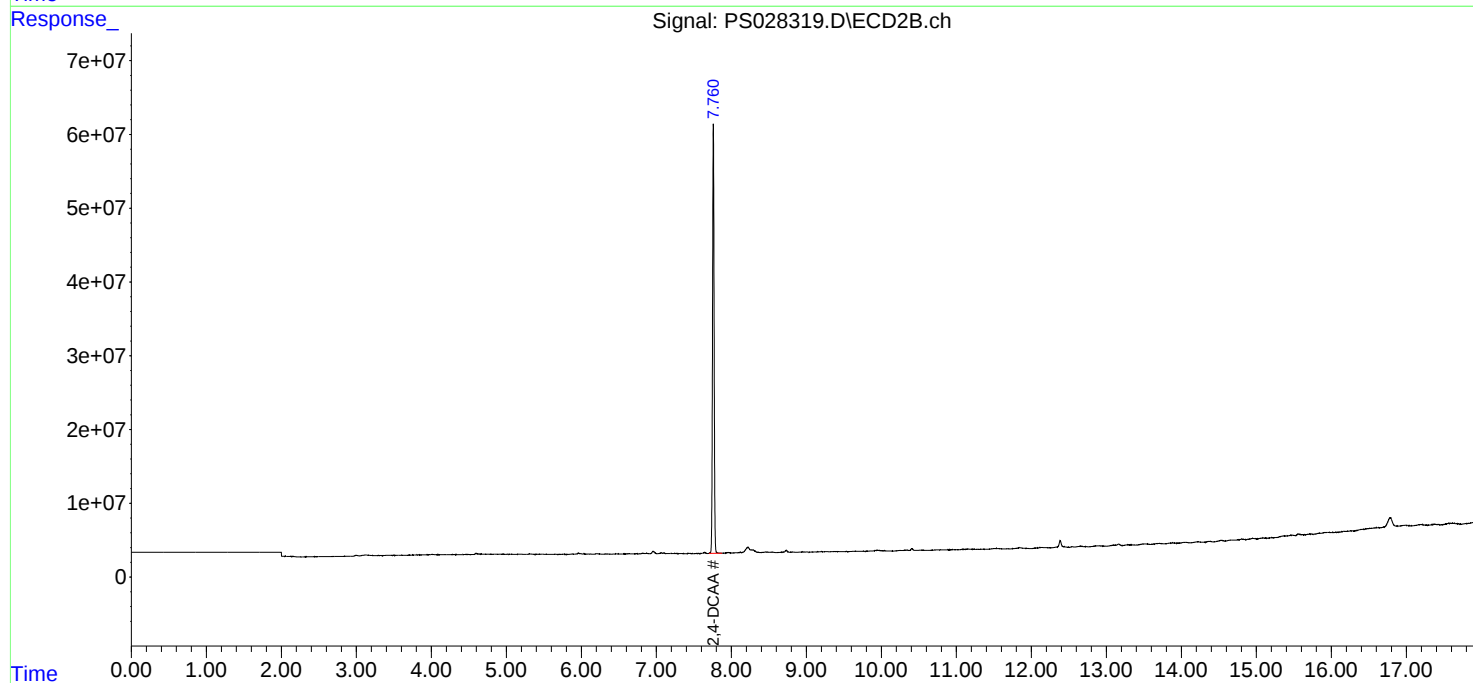
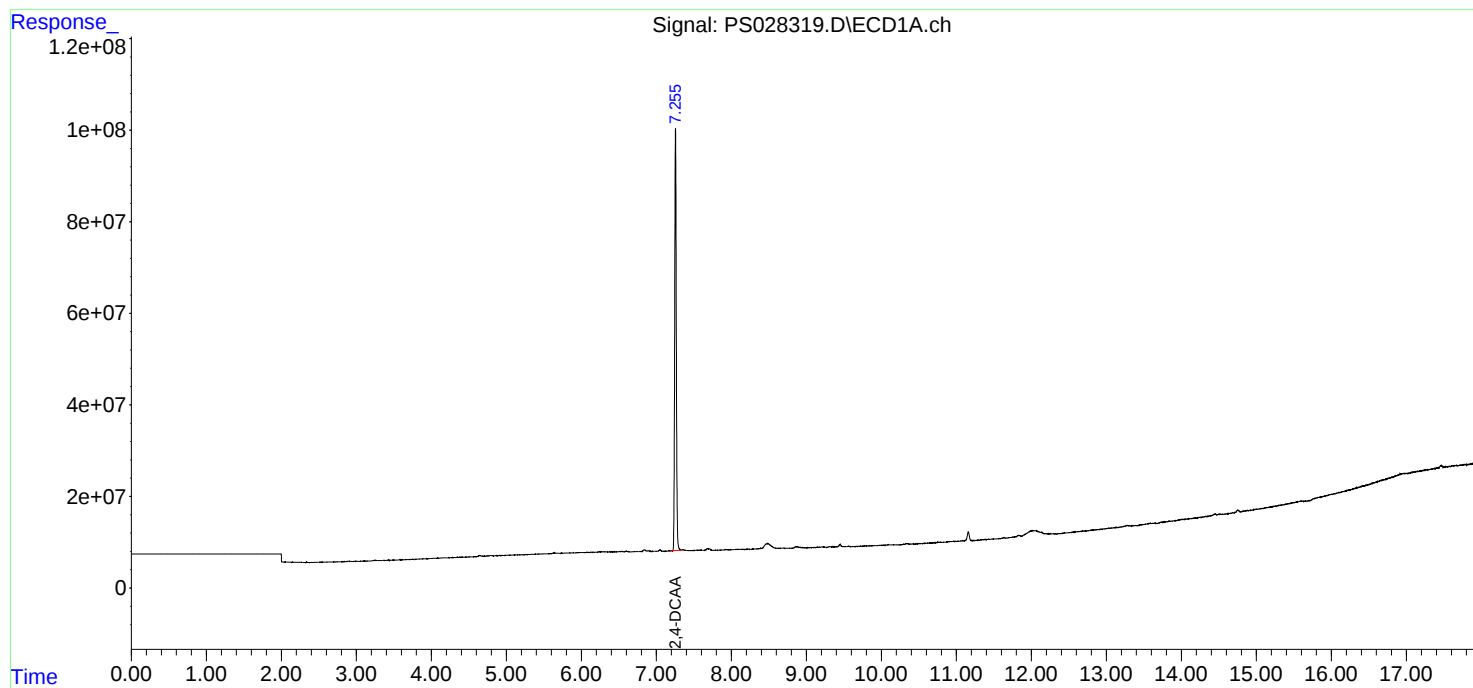
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

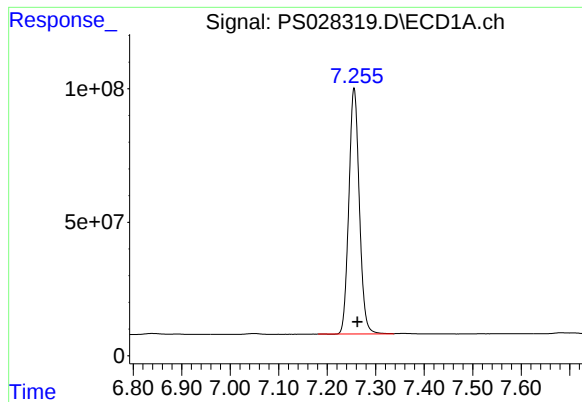
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028319.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 13:52
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 03:14:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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

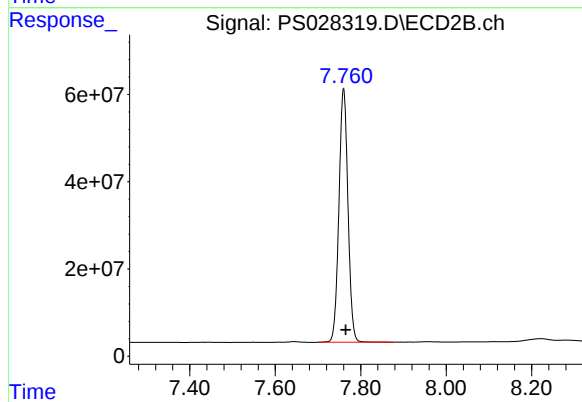




#4 2,4-DCAA

R.T.: 7.255 min
Delta R.T.: -0.007 min
Response: 1383778459
Conc: 540.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.760 min
Delta R.T.: -0.005 min
Response: 852386161
Conc: 489.38 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB164752BS	SDG No.:	P4660
Lab Sample ID:	PB164752BS	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
PS028316.D	1	11/06/24 09:34	11/07/24 12:40	PB164752

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.30		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.50		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	561		70 (39) - 130 (175)	112%	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\PS110624\
 Data File : PS028316.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 12:40
 Operator : AR\AJ
 Sample : PB164752BS
 Misc :
 ALS Vial : 87 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB164752BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 08 03:11:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.256	7.761	1436.4E6	869.1E6	560.790	498.957
Target Compounds							
1) T	Dalapon	2.652	2.710	1613.6E6	1340.6E6	453.360	455.589
2) T	3,5-DICHL...	6.425	6.711	1910.5E6	1177.1E6	509.626	465.102
3) T	4-Nitroph...	7.055	7.287	818.4E6	499.1E6	496.725	435.506
5) T	DICAMBA	7.445	7.962	5824.9E6	3783.7E6	518.759	471.040
6) T	MCPD	7.628	8.062	388.3E6	293.8E6	51.213	48.395
7) T	MCPA	7.778	8.308	528.5E6	395.2E6	50.765	47.390
8) T	DICHLORPROP	8.156	8.679	1499.9E6	930.0E6	532.032	462.852
9) T	2,4-D	8.387	9.010	1675.8E6	1019.2E6	530.969	457.023
10) T	Pentachlo...	8.687	9.541	23498.4E6	13881.5E6	565.371	475.970
11) T	2,4,5-TP ...	9.268	9.917	9342.1E6	5859.4E6	548.709	470.907
12) T	2,4,5-T	9.561	10.339	9264.0E6	5669.5E6	534.395	462.184
13) T	2,4-DB	10.138	10.907	1502.5E6	696.0E6	531.587	439.143
14) T	DINOSEB	11.355	11.286	7720.2E6	3839.1E6	533.942	440.177
15) T	Picloram	11.159	12.386	14688.2E6	7494.5E6	506.509	415.620
16) T	DCPA	11.647	12.333	13194.5E6	6293.6E6	555.340	449.205

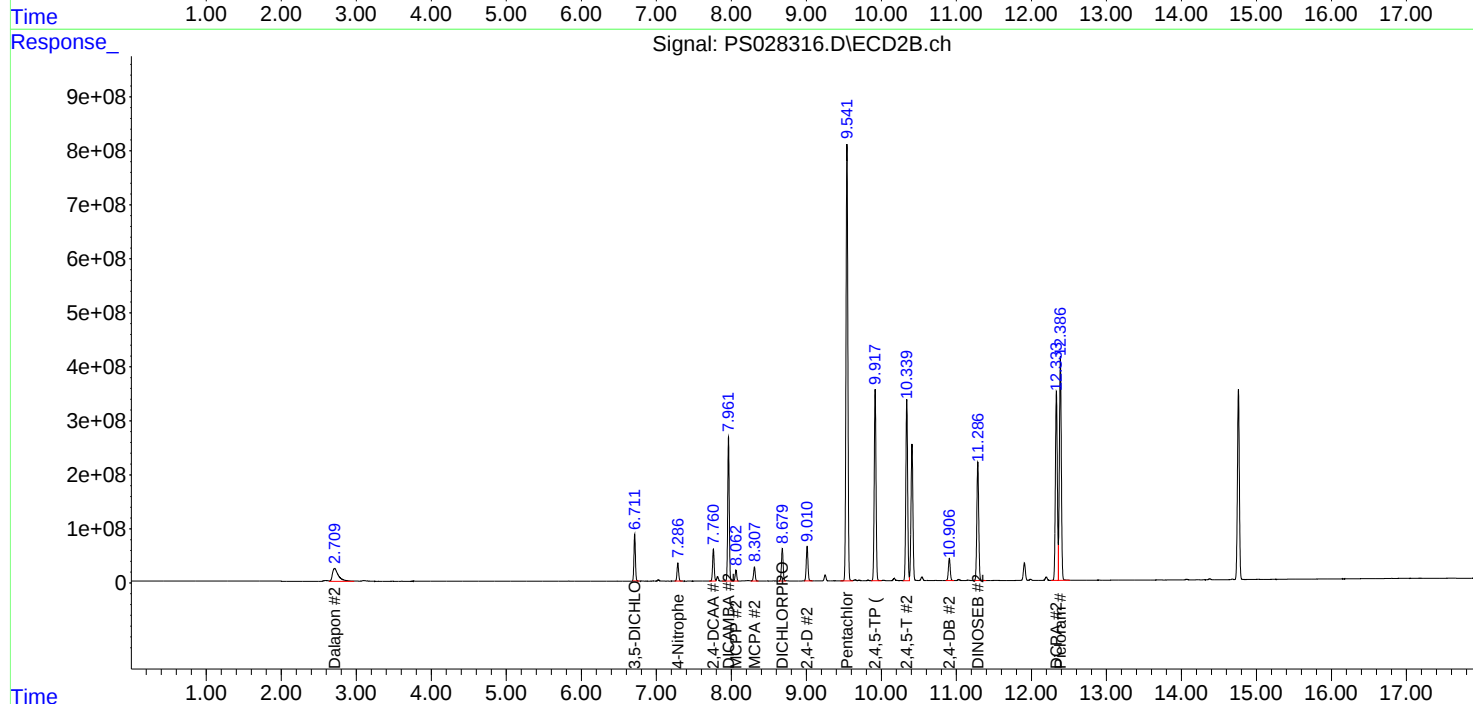
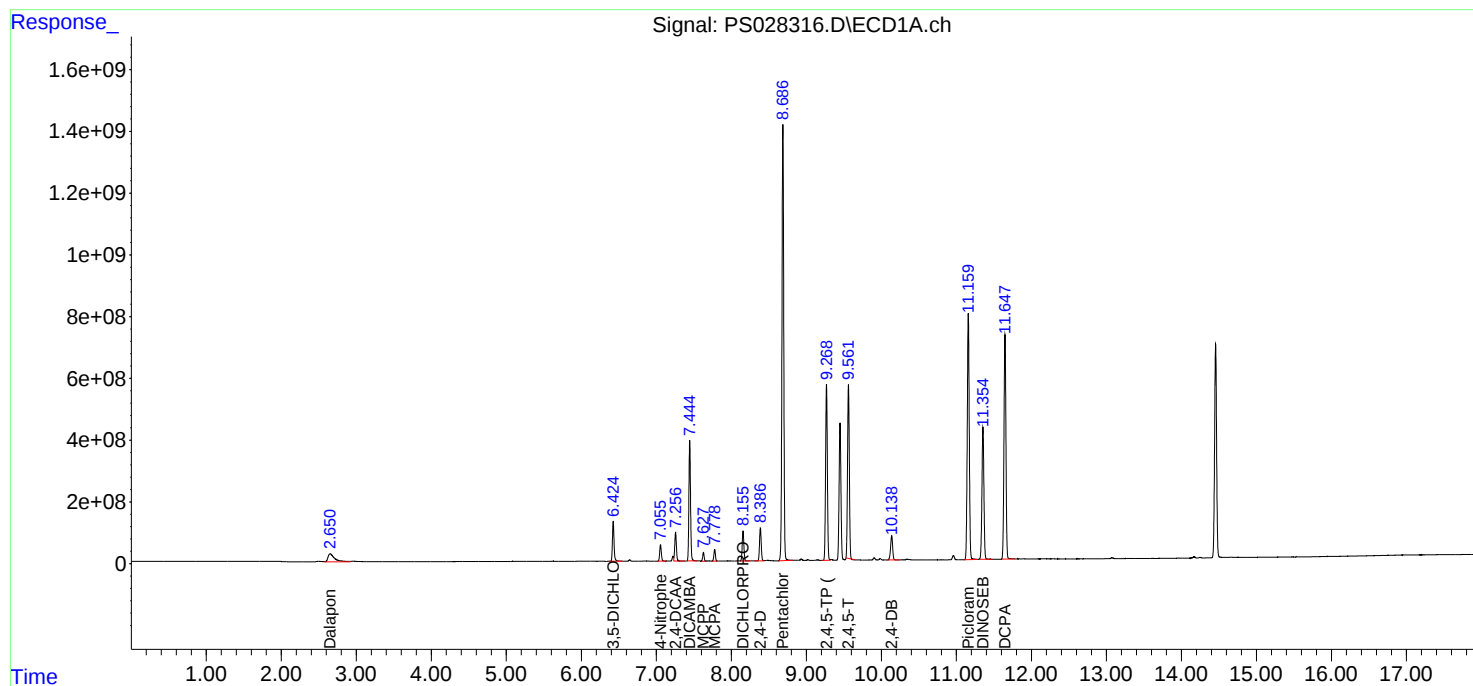
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028316.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 12:40
Operator : AR\AJ
Sample : PB164752BS
Misc :
ALS Vial : 87 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164752BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 03:11:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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



Report of Analysis

Client:	ENTACT	Date Collected:	10/30/24
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	10/31/24
Client Sample ID:	WC-TA2-01-CMS	SDG No.:	P4660
Lab Sample ID:	P4660-03MS	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
PS028313.D	1	11/06/24 09:34	11/07/24 11:28	PB164752

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	50.3		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	52.9		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	428		70 (39) - 130 (175)	86%	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\PS110624\
 Data File : PS028313.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 11:28
 Operator : AR\AJ
 Sample : P4660-03MS
 Misc :
 ALS Vial : 84 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-TA2-01-CMS

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 11/08/2024
 Supervised By : Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 08 03:07:55 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.256	7.761	1095.7E6	588.7E6	427.757	338.009
Target Compounds							
1) T	Dalapon	2.657	2.715	904.8E6	970.9E6	254.205	329.965 #
2) T	3,5-DICHL...	6.425	6.712	1610.6E6	1069.7E6	429.634	422.658
5) T	DICAMBA	7.445	7.962	4463.7E6	2967.4E6	397.533	369.423
6) T	MCPD	7.626	8.062	267.7E6	235.1E6	35.300	38.727
7) T	MCPA	7.776	8.306	410.5E6	350.0E6	39.431	41.968
8) T	DICHLORPROP	8.156	8.679	1280.5E6	784.2E6	454.179	390.282
9) T	2,4-D	8.387	9.010	1587.5E6	1033.8E6	502.990	463.577
10) T	Pentachlo...	8.687	9.541	17022.1E6	10032.5E6	409.553	343.995
11) T	2,4,5-TP ...	9.267	9.919	8523.9E6	6583.1E6	500.649m	529.075
12) T	2,4,5-T	9.561	10.339	7654.7E6	4772.6E6	441.564	389.065
13) T	2,4-DB	10.139	10.907	1057.1E6	532.0E6	373.985	335.663
14) T	DINOSEB	11.355	11.286	4499.2E6	2221.4E6	311.170	254.694
15) T	Picloram	11.159	12.386	11142.9E6	5677.2E6	384.253	314.835
16) T	DCPA	11.646	12.333	11172.3E6	5877.4E6	470.229	419.501

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028313.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 11:28
Operator : AR\AJ
Sample : P4660-03MS
Misc :
ALS Vial : 84 Sample Multiplier: 1

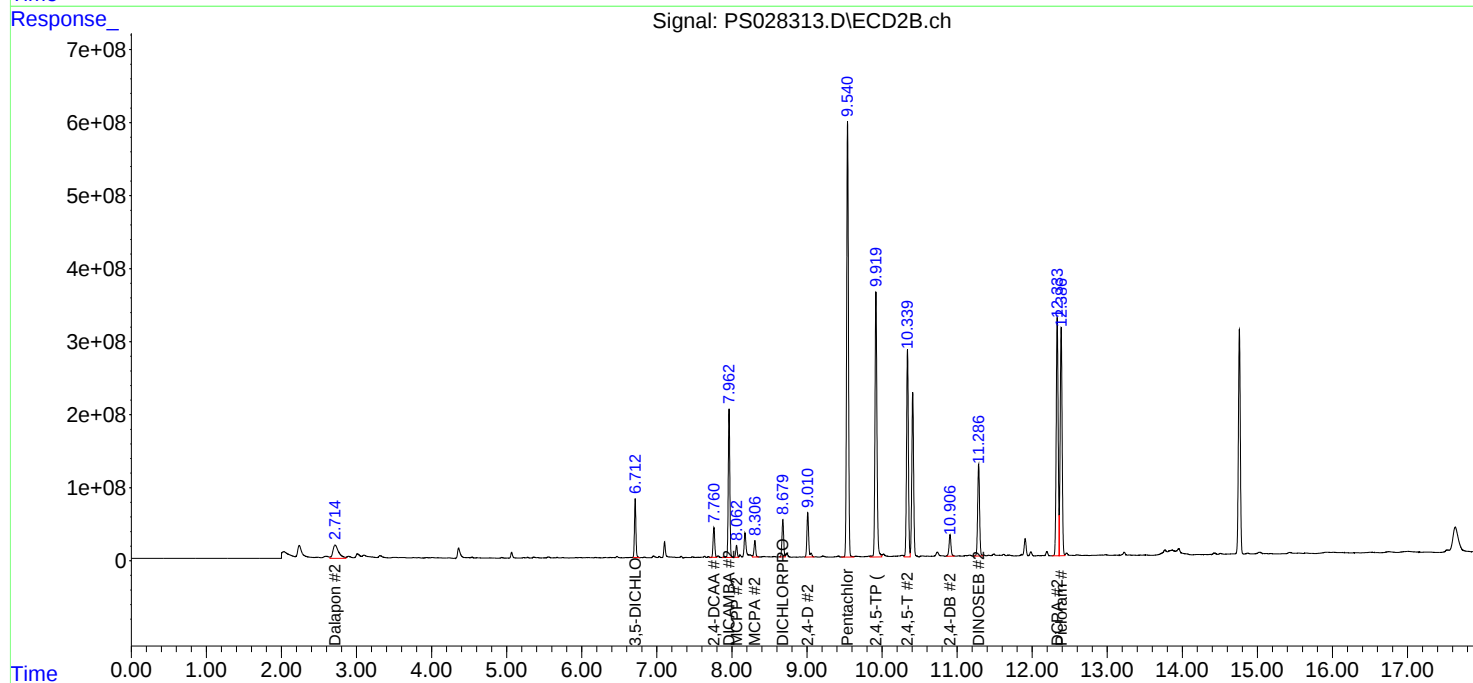
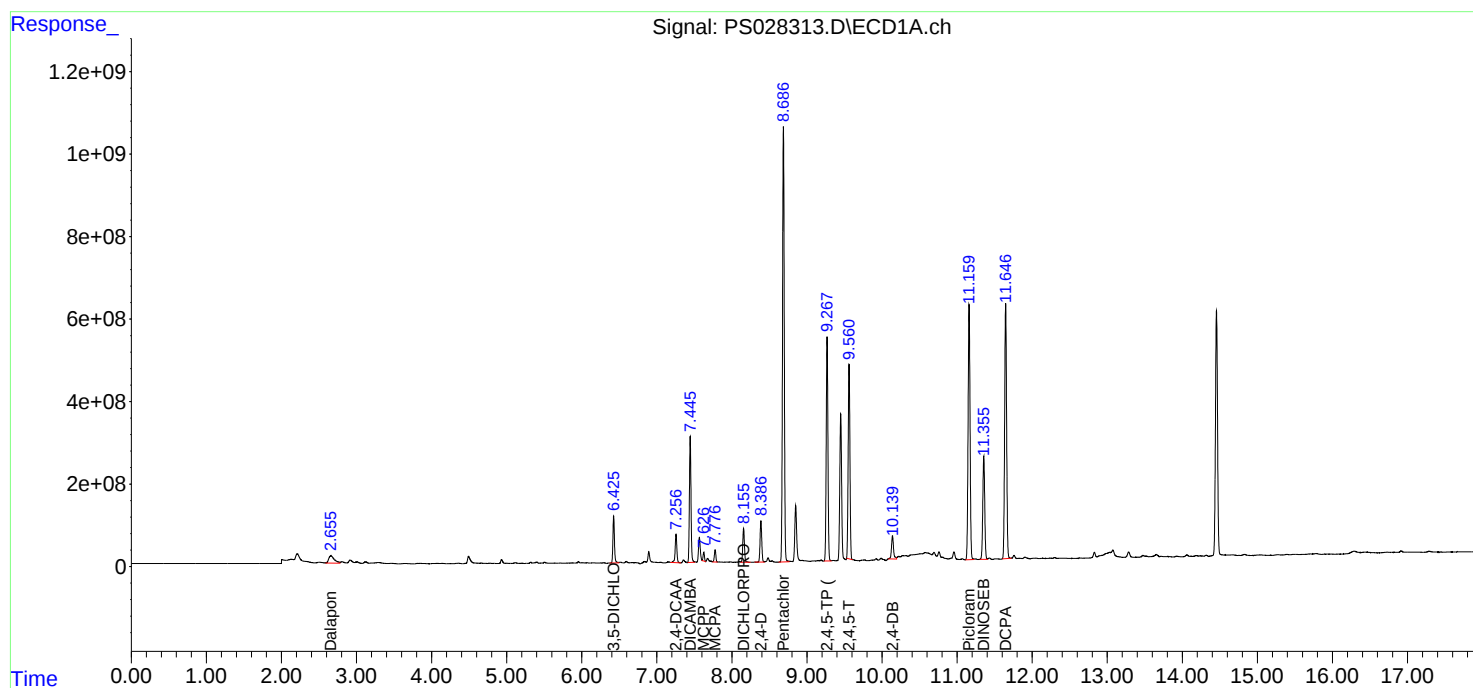
Instrument :
ECD_S
ClientSampleId :
WC-TA2-01-CMS

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/08/2024
Supervised By : Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 03:07:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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



Report of Analysis

Client:	ENTACT	Date Collected:	10/30/24
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	10/31/24
Client Sample ID:	WC-TA2-01-CMSD	SDG No.:	P4660
Lab Sample ID:	P4660-03MSD	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
PS028314.D	1	11/06/24 09:34	11/07/24 11:52	PB164752

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	53.9		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	58.5		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	447		70 (39) - 130 (175)	89%	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\PS110624\
 Data File : PS028314.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Nov 2024 11:52
 Operator : AR\AJ
 Sample : P4660-03MSD
 Misc :
 ALS Vial : 85 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-TA2-01-CMSD

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 08 03:09:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 11:48:19 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	7.256	7.760	1145.5E6	629.2E6	447.200	361.222m
Target Compounds							
1) T	Dalapon	2.657	2.714	978.8E6	1042.8E6	275.004	354.379 #
2) T	3,5-DICHL...	6.426	6.712	1733.2E6	1147.9E6	462.330	453.570
5) T	DICAMBA	7.445	7.962	4810.7E6	3207.5E6	428.432	399.311
6) T	MCPD	7.627	8.062	287.7E6	257.1E6	37.947	42.341
7) T	MCPA	7.777	8.307	445.1E6	378.2E6	42.754	45.354
8) T	DICHLORPROP	8.156	8.679	1372.3E6	844.3E6	486.754	420.195
9) T	2,4-D	8.387	9.011	1702.5E6	1112.4E6	539.416	498.805
10) T	Pentachlo...	8.687	9.541	17950.0E6	10571.7E6	431.877	362.481
11) T	2,4,5-TP ...	9.268	9.919	9144.3E6	7283.7E6	537.092m	585.382
12) T	2,4,5-T	9.561	10.339	8233.1E6	5154.6E6	474.927	420.211
13) T	2,4-DB	10.139	10.907	1062.6E6	571.6E6	375.921	360.648
14) T	DINOSEB	11.355	11.286	4658.4E6	2326.5E6	322.182	266.752
15) T	Picloram	11.160	12.386	12008.4E6	6124.9E6	414.099	339.668
16) T	DCPA	11.646	12.333	12089.8E6	6317.1E6	508.845	450.884

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110624\
Data File : PS028314.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Nov 2024 11:52
Operator : AR\AJ
Sample : P4660-03MSD
Misc :
ALS Vial : 85 Sample Multiplier: 1

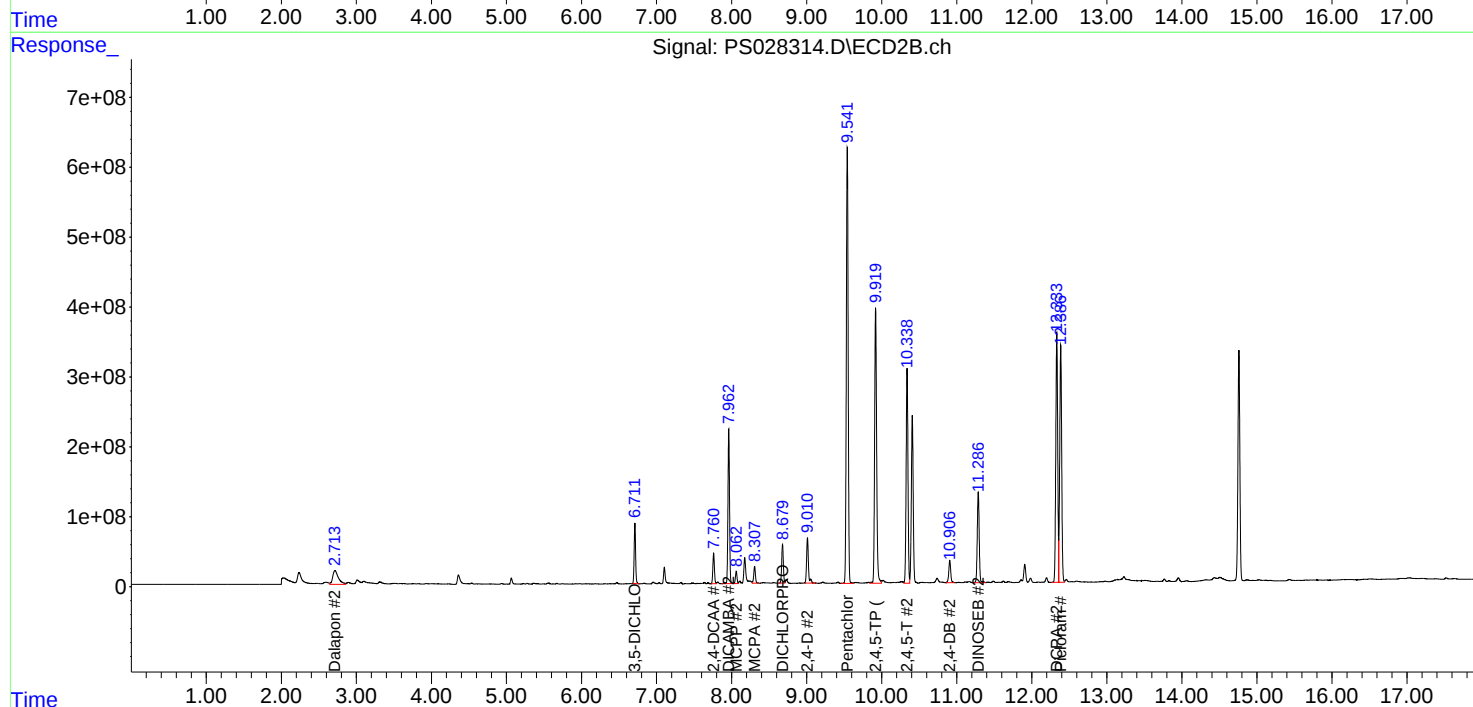
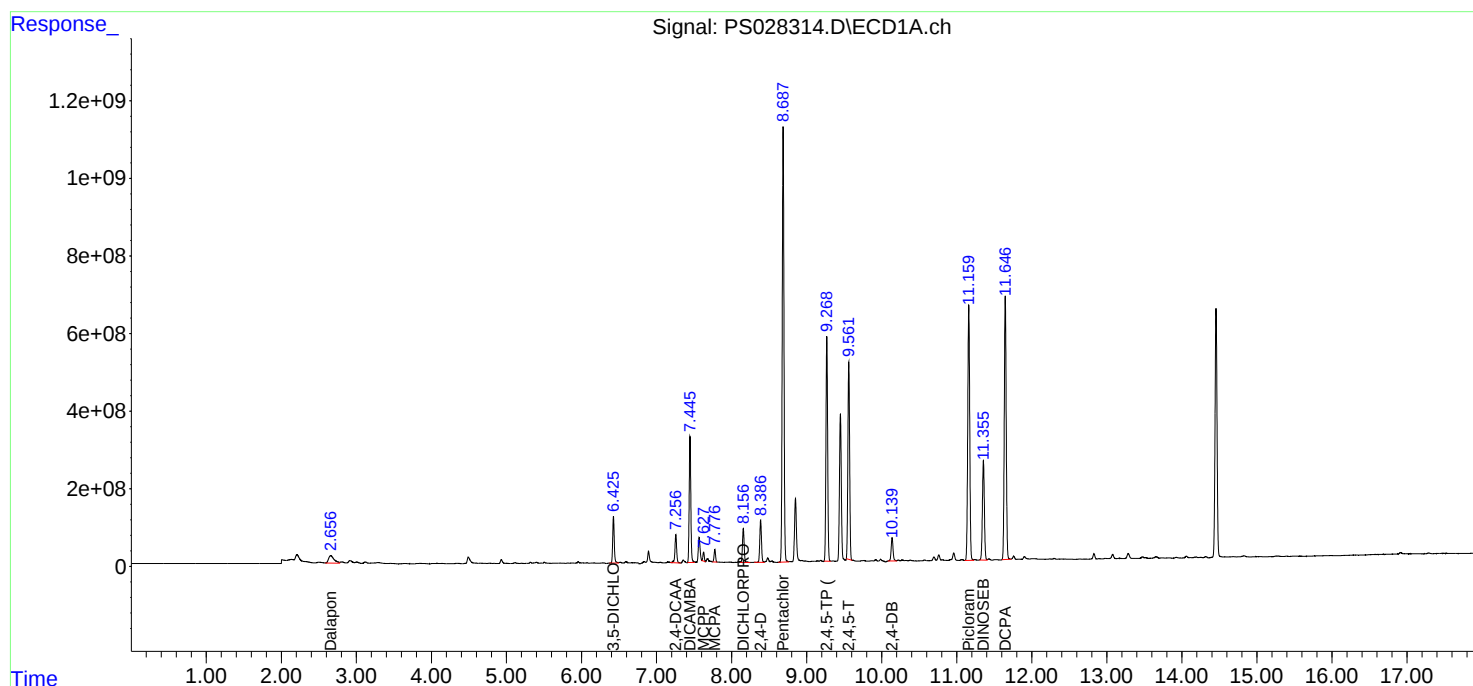
Instrument :
ECD_S
ClientSampleId :
WC-TA2-01-CMSD

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/08/2024
Supervised By : Ankita Jodhani 11/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 03:09:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110624.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 11:48:19 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



Manual Integration Report

Sequence:	PS110624	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC500	PS028254.D	2,4-DCAA	Abdul	11/8/2024 10:55:51 AM	Ankita	11/8/2024 11:03:48	Peak Integrated by Software
HSTDICC1000	PS028256.D	2,4-DCAA	Abdul	11/8/2024 10:55:55 AM	Ankita	11/8/2024 11:03:51	Peak Integrated by Software
HSTDICV750	PS028258.D	2,4-DCAA	Abdul	11/8/2024 10:55:59 AM	Ankita	11/8/2024 11:03:53	Peak Integrated by Software
I.BLK	PS028271.D	2,4-DCAA	Abdul	11/8/2024 10:59:56 AM	Ankita	11/8/2024 11:04:10	Peak Integrated by Software
HSTDCCC750	PS028272.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	11/8/2024 11:00:02 AM	Ankita	11/8/2024 11:04:13	Peak Integrated by Software
I.BLK	PS028283.D	2,4-DCAA	Abdul	11/8/2024 10:57:34 AM	Ankita	11/8/2024 11:04:56	Peak Integrated by Software
HSTDCCC750	PS028284.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	11/8/2024 11:01:14 AM	Ankita	11/8/2024 11:04:58	Peak Integrated by Software
HSTDCCC750	PS028297.D	2,4-D	Abdul	11/8/2024 10:43:24 AM	Ankita	11/8/2024 10:46:46	Peak Integrated by Software
HSTDCCC750	PS028297.D	2,4-DCAA	Abdul	11/8/2024 10:43:24 AM	Ankita	11/8/2024 10:46:46	Peak Integrated by Software
HSTDCCC750	PS028309.D	2,4,5-T	Abdul	11/8/2024 10:43:50 AM	Ankita	11/8/2024 10:46:57	Peak Integrated by Software
P4660-07	PS028311.D	2,4-DCAA	Abdul	11/8/2024 10:44:10 AM	Ankita	11/8/2024 10:46:59	Peak Integrated by Software
P4660-07	PS028311.D	2,4-DCAA #2	Abdul	11/8/2024 10:44:10 AM	Ankita	11/8/2024 10:46:59	Peak Integrated by Software
P4660-11	PS028312.D	2,4-DCAA	Abdul	11/8/2024 10:44:14 AM	Ankita	11/8/2024 10:47:00	Peak Integrated by Software

Manual Integration Report

Sequence:	PS110624	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4660-11	PS028312.D	2,4-DCAA #2	Abdul	11/8/2024 10:44:14 AM	Ankita	11/8/2024 10:47:00	Peak Integrated by Software
P4660-03MS	PS028313.D	2,4,5-TP (SILVEX)	Abdul	11/8/2024 10:44:17 AM	Ankita	11/8/2024 10:46:19	Peak Integrated by Software
P4660-03MSD	PS028314.D	2,4,5-TP (SILVEX)	Abdul	11/8/2024 10:44:20 AM	Ankita	11/8/2024 10:46:17	Peak Integrated by Software
P4660-03MSD	PS028314.D	2,4-DCAA #2	Abdul	11/8/2024 10:44:20 AM	Ankita	11/8/2024 10:46:17	Peak Integrated by Software
PB164752BL	PS028315.D	2,4-DCAA #2	Abdul	11/8/2024 10:44:25 AM	Ankita	11/8/2024 10:46:16	Peak Integrated by Software
PB164560TB	PS028317.D	2,4-DCAA #2	Abdul	11/8/2024 10:44:30 AM	Ankita	11/8/2024 10:46:14	Peak Integrated by Software
HSTDCCC750	PS028320.D	2,4,5-T	Abdul	11/8/2024 10:44:46 AM	Ankita	11/8/2024 10:46:10	Peak Integrated by Software
HSTDCCC750	PS028320.D	2,4-D	Abdul	11/8/2024 10:44:46 AM	Ankita	11/8/2024 10:46:10	Peak Integrated by Software
HSTDCCC750	PS028332.D	2,4,5-T	Abdul	11/8/2024 10:59:13 AM	Ankita	11/8/2024 11:05:48	Peak Integrated by Software
HSTDCCC750	PS028332.D	2,4-D	Abdul	11/8/2024 10:59:13 AM	Ankita	11/8/2024 11:05:48	Peak Integrated by Software
HSTDCCC750	PS028332.D	2,4-DCAA	Abdul	11/8/2024 10:59:13 AM	Ankita	11/8/2024 11:05:48	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028251.D	06 Nov 2024 09:00	AR\AJ	Ok
2	I.BLK	PS028252.D	06 Nov 2024 09:24	AR\AJ	Ok
3	HSTDICC200	PS028253.D	06 Nov 2024 09:48	AR\AJ	Ok
4	HSTDICC500	PS028254.D	06 Nov 2024 10:12	AR\AJ	Ok,M
5	HSTDICC750	PS028255.D	06 Nov 2024 10:36	AR\AJ	Ok
6	HSTDICC1000	PS028256.D	06 Nov 2024 11:00	AR\AJ	Ok,M
7	HSTDICC1500	PS028257.D	06 Nov 2024 11:24	AR\AJ	Ok
8	HSTDICV750	PS028258.D	06 Nov 2024 11:48	AR\AJ	Ok,M
9	I.BLK	PS028259.D	06 Nov 2024 12:14	AR\AJ	Ok
10	HSTDCCC750	PS028260.D	06 Nov 2024 12:38	AR\AJ	Ok
11	P4643-09RE	PS028261.D	06 Nov 2024 13:02	AR\AJ	Confirms
12	PB164519BL	PS028262.D	06 Nov 2024 13:26	AR\AJ	Ok,M
13	PB164519BS	PS028263.D	06 Nov 2024 13:50	AR\AJ	Ok
14	PB164393TB	PS028264.D	06 Nov 2024 14:14	AR\AJ	Not Ok
15	P4578-06	PS028265.D	06 Nov 2024 15:23	AR\AJ	Ok,M
16	P4682-01	PS028266.D	06 Nov 2024 15:50	AR\AJ	Ok,M
17	P4667-01	PS028267.D	06 Nov 2024 16:14	AR\AJ	Ok,M
18	P4667-05	PS028268.D	06 Nov 2024 16:39	AR\AJ	Ok,M
19	P4667-09	PS028269.D	06 Nov 2024 17:03	AR\AJ	Ok,M
20	P4667-13	PS028270.D	06 Nov 2024 17:27	AR\AJ	Ok,M
21	I.BLK	PS028271.D	06 Nov 2024 17:51	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 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	HSTDCCC750	PS028272.D	06 Nov 2024 18:15	AR\AJ	Ok,M
23	P4679-01	PS028273.D	06 Nov 2024 18:39	AR\AJ	Ok,M
24	P4680-01	PS028274.D	06 Nov 2024 19:03	AR\AJ	Ok,M
25	P4680-05	PS028275.D	06 Nov 2024 19:27	AR\AJ	Ok,M
26	P4695-01	PS028276.D	06 Nov 2024 19:51	AR\AJ	Ok,M
27	P4693-01	PS028277.D	06 Nov 2024 20:15	AR\AJ	Ok,M
28	P4693-05	PS028278.D	06 Nov 2024 20:39	AR\AJ	Ok,M
29	P4711-01	PS028279.D	06 Nov 2024 21:03	AR\AJ	Ok,M
30	P4711-06	PS028280.D	06 Nov 2024 21:27	AR\AJ	Ok,M
31	P4719-01	PS028281.D	06 Nov 2024 21:51	AR\AJ	Ok,M
32	PB164703BL	PS028282.D	06 Nov 2024 22:15	AR\AJ	Ok,M
33	I.BLK	PS028283.D	06 Nov 2024 22:39	AR\AJ	Ok,M
34	HSTDCCC750	PS028284.D	06 Nov 2024 23:03	AR\AJ	Ok,M
35	PB164703BS	PS028285.D	06 Nov 2024 23:51	AR\AJ	Ok
36	PB164494BS	PS028286.D	07 Nov 2024 00:15	AR\AJ	Ok,M
37	PB164494BSD	PS028287.D	07 Nov 2024 00:39	AR\AJ	Ok,M
38	PB164578BS	PS028288.D	07 Nov 2024 01:04	AR\AJ	Ok,M
39	P4694-01	PS028289.D	07 Nov 2024 01:28	AR\AJ	Ok,M
40	P4694-05	PS028290.D	07 Nov 2024 01:52	AR\AJ	Ok,M
41	P4578-06MS	PS028291.D	07 Nov 2024 02:16	AR\AJ	Ok,M
42	P4578-06MSD	PS028292.D	07 Nov 2024 02:40	AR\AJ	Ok,M
43	P4578-08	PS028293.D	07 Nov 2024 03:04	AR\AJ	Ok,M
44	PB164559BL	PS028294.D	07 Nov 2024 03:28	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 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			

45	PB164559BS	PS028295.D	07 Nov 2024 03:52	AR\AJ	Ok,M
46	I.BLK	PS028296.D	07 Nov 2024 04:16	AR\AJ	Ok
47	HSTDCCC750	PS028297.D	07 Nov 2024 04:40	AR\AJ	Ok,M
48	P4601-19	PS028298.D	07 Nov 2024 05:28	AR\AJ	Ok,M
49	P4601-20	PS028299.D	07 Nov 2024 05:52	AR\AJ	Ok,M
50	P4601-21	PS028300.D	07 Nov 2024 06:16	AR\AJ	Ok,M
51	P4601-22	PS028301.D	07 Nov 2024 06:40	AR\AJ	Ok,M
52	P4601-23	PS028302.D	07 Nov 2024 07:04	AR\AJ	Ok,M
53	P4601-24	PS028303.D	07 Nov 2024 07:28	AR\AJ	Ok,M
54	P4601-25	PS028304.D	07 Nov 2024 07:52	AR\AJ	Ok,M
55	P4601-26	PS028305.D	07 Nov 2024 08:16	AR\AJ	Ok,M
56	P4601-27	PS028306.D	07 Nov 2024 08:40	AR\AJ	Ok,M
57	P4601-28	PS028307.D	07 Nov 2024 09:04	AR\AJ	Ok,M
58	I.BLK	PS028308.D	07 Nov 2024 09:28	AR\AJ	Ok
59	HSTDCCC750	PS028309.D	07 Nov 2024 09:52	AR\AJ	Ok,M
60	P4660-03	PS028310.D	07 Nov 2024 10:16	AR\AJ	Ok
61	P4660-07	PS028311.D	07 Nov 2024 10:40	AR\AJ	Ok,M
62	P4660-11	PS028312.D	07 Nov 2024 11:04	AR\AJ	Ok,M
63	P4660-03MS	PS028313.D	07 Nov 2024 11:28	AR\AJ	Ok,M
64	P4660-03MSD	PS028314.D	07 Nov 2024 11:52	AR\AJ	Ok,M
65	PB164752BL	PS028315.D	07 Nov 2024 12:16	AR\AJ	Ok,M
66	PB164752BS	PS028316.D	07 Nov 2024 12:40	AR\AJ	Ok
67	PB164560TB	PS028317.D	07 Nov 2024 13:04	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 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			

68	P4368-07	PS028318.D	07 Nov 2024 13:28	AR\AJ	Ok,M
69	I.BLK	PS028319.D	07 Nov 2024 13:52	AR\AJ	Ok
70	HSTDCCC750	PS028320.D	07 Nov 2024 14:16	AR\AJ	Ok,M
71	P4601-29	PS028321.D	07 Nov 2024 14:40	AR\AJ	Not Ok
72	P4601-30	PS028322.D	07 Nov 2024 15:05	AR\AJ	Not Ok
73	P4601-31	PS028323.D	07 Nov 2024 15:29	AR\AJ	Not Ok
74	P4601-32	PS028324.D	07 Nov 2024 15:53	AR\AJ	Not Ok
75	P4601-33	PS028325.D	07 Nov 2024 16:17	AR\AJ	Not Ok
76	P4601-34	PS028326.D	07 Nov 2024 16:41	AR\AJ	Not Ok
77	P4601-35	PS028327.D	07 Nov 2024 17:05	AR\AJ	Not Ok
78	P4601-36	PS028328.D	07 Nov 2024 17:29	AR\AJ	Not Ok
79	P4601-37MS	PS028329.D	07 Nov 2024 17:53	AR\AJ	Not Ok
80	P4601-37MSD	PS028330.D	07 Nov 2024 18:17	AR\AJ	Not Ok
81	I.BLK	PS028331.D	07 Nov 2024 18:41	AR\AJ	Not Ok
82	HSTDCCC750	PS028332.D	07 Nov 2024 19:05	AR\AJ	Not Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 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	PS028251.D	06 Nov 2024 09:00		AR\AJ	Ok
2	I.BLK	I.BLK	PS028252.D	06 Nov 2024 09:24		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028253.D	06 Nov 2024 09:48		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS028254.D	06 Nov 2024 10:12		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS028255.D	06 Nov 2024 10:36		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028256.D	06 Nov 2024 11:00		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028257.D	06 Nov 2024 11:24		AR\AJ	Ok
8	HSTDICV750	ICVPS110624	PS028258.D	06 Nov 2024 11:48		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS028259.D	06 Nov 2024 12:14		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028260.D	06 Nov 2024 12:38		AR\AJ	Ok
11	P4643-09RE	TP-9RE	PS028261.D	06 Nov 2024 13:02	Surrogate fail	AR\AJ	Confirms
12	PB164519BL	PB164519BL	PS028262.D	06 Nov 2024 13:26		AR\AJ	Ok,M
13	PB164519BS	PB164519BS	PS028263.D	06 Nov 2024 13:50		AR\AJ	Ok
14	PB164393TB	PB164393TB	PS028264.D	06 Nov 2024 14:14	Surrogate Fail	AR\AJ	Not Ok
15	P4578-06	WB-305-BOT	PS028265.D	06 Nov 2024 15:23		AR\AJ	Ok,M
16	P4682-01	BELL-SHOP-RAGS	PS028266.D	06 Nov 2024 15:50		AR\AJ	Ok,M
17	P4667-01	BP-F-6	PS028267.D	06 Nov 2024 16:14		AR\AJ	Ok,M
18	P4667-05	BP-F-5	PS028268.D	06 Nov 2024 16:39		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 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			

19	P4667-09	BP-F-10	PS028269.D	06 Nov 2024 17:03		AR\AJ	Ok,M
20	P4667-13	BP-F-7	PS028270.D	06 Nov 2024 17:27		AR\AJ	Ok,M
21	I.BLK	I.BLK	PS028271.D	06 Nov 2024 17:51		AR\AJ	Ok,M
22	HSTDCCC750	HSTDCCC750	PS028272.D	06 Nov 2024 18:15		AR\AJ	Ok,M
23	P4679-01	MH-1	PS028273.D	06 Nov 2024 18:39		AR\AJ	Ok,M
24	P4680-01	BP-F26	PS028274.D	06 Nov 2024 19:03		AR\AJ	Ok,M
25	P4680-05	BP-F25	PS028275.D	06 Nov 2024 19:27		AR\AJ	Ok,M
26	P4695-01	Z-01	PS028276.D	06 Nov 2024 19:51		AR\AJ	Ok,M
27	P4693-01	BP-G5-WC	PS028277.D	06 Nov 2024 20:15		AR\AJ	Ok,M
28	P4693-05	BP-G4-WC	PS028278.D	06 Nov 2024 20:39		AR\AJ	Ok,M
29	P4711-01	CF-613-COMP-16	PS028279.D	06 Nov 2024 21:03		AR\AJ	Ok,M
30	P4711-06	CF-613-COMP-17	PS028280.D	06 Nov 2024 21:27		AR\AJ	Ok,M
31	P4719-01	BAYAVE-STOCKPILE	PS028281.D	06 Nov 2024 21:51		AR\AJ	Ok,M
32	PB164703BL	PB164703BL	PS028282.D	06 Nov 2024 22:15		AR\AJ	Ok,M
33	I.BLK	I.BLK	PS028283.D	06 Nov 2024 22:39		AR\AJ	Ok,M
34	HSTDCCC750	HSTDCCC750	PS028284.D	06 Nov 2024 23:03		AR\AJ	Ok,M
35	PB164703BS	PB164703BS	PS028285.D	06 Nov 2024 23:51		AR\AJ	Ok
36	PB164494BS	PB164494BS	PS028286.D	07 Nov 2024 00:15		AR\AJ	Ok,M
37	PB164494BSD	PB164494BSD	PS028287.D	07 Nov 2024 00:39		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM	PP23469		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	PB164578BS	PB164578BS	PS028288.D	07 Nov 2024 01:04		AR\AJ	Ok,M
39	P4694-01	Z-03A	PS028289.D	07 Nov 2024 01:28		AR\AJ	Ok,M
40	P4694-05	Z-04	PS028290.D	07 Nov 2024 01:52		AR\AJ	Ok,M
41	P4578-06MS	WB-305-BOTMS	PS028291.D	07 Nov 2024 02:16	Some compound recovery fail	AR\AJ	Ok,M
42	P4578-06MSD	WB-305-BOTMSD	PS028292.D	07 Nov 2024 02:40	Some compound recovery fail	AR\AJ	Ok,M
43	P4578-08	WB-305-BOT-1	PS028293.D	07 Nov 2024 03:04		AR\AJ	Ok,M
44	PB164559BL	PB164559BL	PS028294.D	07 Nov 2024 03:28		AR\AJ	Ok,M
45	PB164559BS	PB164559BS	PS028295.D	07 Nov 2024 03:52		AR\AJ	Ok,M
46	I.BLK	I.BLK	PS028296.D	07 Nov 2024 04:16		AR\AJ	Ok
47	HSTDCCC750	HSTDCCC750	PS028297.D	07 Nov 2024 04:40		AR\AJ	Ok,M
48	P4601-19	C0PI0	PS028298.D	07 Nov 2024 05:28		AR\AJ	Ok,M
49	P4601-20	C0PI2	PS028299.D	07 Nov 2024 05:52		AR\AJ	Ok,M
50	P4601-21	C0PI6	PS028300.D	07 Nov 2024 06:16		AR\AJ	Ok,M
51	P4601-22	C0PI8	PS028301.D	07 Nov 2024 06:40		AR\AJ	Ok,M
52	P4601-23	C0PI9	PS028302.D	07 Nov 2024 07:04		AR\AJ	Ok,M
53	P4601-24	CC0P1	PS028303.D	07 Nov 2024 07:28		AR\AJ	Ok,M
54	P4601-25	CC0P3	PS028304.D	07 Nov 2024 07:52		AR\AJ	Ok,M
55	P4601-26	CC0P5	PS028305.D	07 Nov 2024 08:16		AR\AJ	Ok,M
56	P4601-27	CC0P7	PS028306.D	07 Nov 2024 08:40		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 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			

57	P4601-28	CC0P9	PS028307.D	07 Nov 2024 09:04		AR\AJ	Ok,M
58	I.BLK	I.BLK	PS028308.D	07 Nov 2024 09:28		AR\AJ	Ok
59	HSTDCCC750	HSTDCCC750	PS028309.D	07 Nov 2024 09:52		AR\AJ	Ok,M
60	P4660-03	WC-TA2-01-C	PS028310.D	07 Nov 2024 10:16		AR\AJ	Ok
61	P4660-07	WC-WOOD-01-C	PS028311.D	07 Nov 2024 10:40		AR\AJ	Ok,M
62	P4660-11	WC-CONCRETE-01-C	PS028312.D	07 Nov 2024 11:04		AR\AJ	Ok,M
63	P4660-03MS	WC-TA2-01-CMS	PS028313.D	07 Nov 2024 11:28		AR\AJ	Ok,M
64	P4660-03MSD	WC-TA2-01-CMSD	PS028314.D	07 Nov 2024 11:52		AR\AJ	Ok,M
65	PB164752BL	PB164752BL	PS028315.D	07 Nov 2024 12:16		AR\AJ	Ok,M
66	PB164752BS	PB164752BS	PS028316.D	07 Nov 2024 12:40		AR\AJ	Ok
67	PB164560TB	PB164560TB	PS028317.D	07 Nov 2024 13:04		AR\AJ	Ok,M
68	P4368-07	LOD-MDL-WATER-01-C	PS028318.D	07 Nov 2024 13:28		AR\AJ	Ok,M
69	I.BLK	I.BLK	PS028319.D	07 Nov 2024 13:52		AR\AJ	Ok
70	HSTDCCC750	HSTDCCC750	PS028320.D	07 Nov 2024 14:16		AR\AJ	Ok,M
71	P4601-29	CC0Q1	PS028321.D	07 Nov 2024 14:40	Closing CCC Fail	AR\AJ	Not Ok
72	P4601-30	CC0Q6	PS028322.D	07 Nov 2024 15:05	Closing CCC Fail	AR\AJ	Not Ok
73	P4601-31	CC0Q8	PS028323.D	07 Nov 2024 15:29	Closing CCC Fail	AR\AJ	Not Ok
74	P4601-32	CC0R3	PS028324.D	07 Nov 2024 15:53	Closing CCC Fail	AR\AJ	Not Ok
75	P4601-33	CC0R4	PS028325.D	07 Nov 2024 16:17	Closing CCC Fail	AR\AJ	Not Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110624

Review By	Abdul	Review On	11/8/2024 11:03:42 AM
Supervise By	Ankita	Supervise On	11/8/2024 11:06:06 AM
SubDirectory	PS110624	HP Acquire Method	HP Processing Method ps110624 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard	PP23469		
MS/MSD Standard LCS Standard			

76	P4601-34	CC0R5	PS028326.D	07 Nov 2024 16:41	Closing CCC Fail	AR\AJ	Not Ok
77	P4601-35	CC0R6	PS028327.D	07 Nov 2024 17:05	Closing CCC Fail	AR\AJ	Not Ok
78	P4601-36	CC0R7	PS028328.D	07 Nov 2024 17:29	Closing CCC Fail	AR\AJ	Not Ok
79	P4601-37MS	CC0R7MS	PS028329.D	07 Nov 2024 17:53	Closing CCC Fail	AR\AJ	Not Ok
80	P4601-37MSD	CC0R7MSD	PS028330.D	07 Nov 2024 18:17	Closing CCC Fail	AR\AJ	Not Ok
81	I.BLK	I.BLK	PS028331.D	07 Nov 2024 18:41	Closing CCC Fail	AR\AJ	Not Ok
82	HSTDCCC750	HSTDCCC750	PS028332.D	07 Nov 2024 19:05	CCC Fail	AR\AJ	Not Ok

M : Manual Integration

SOP ID :	M1311-TCLP-15	
SDG No :	N/A	Start Prep Date : 11/03/2024 Time : 14:00
Welgh By :	JP	End Prep Date : 11/04/2024 Time : 07:10
Balance ID :	WC SC-4	Combination Ratio : 20
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch : N/A
Extraction By :	JP	Initial Room Temperature: N/A
Filter By :	JP	Final Room Temperature: N/A
Pippete ID :	WC	TCLP Technician Signature : <i>JP</i> <i>JP</i>
Tumbler ID :	T-1 / T-2	Supervisor By : 12
TCLP Filter ID :	114771	

Standarded 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	W1937,W1938,W1939,W1940,W1941,W1942
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 fiftation and before preservation. Tumbler T-1 /T-2 checded,30 rpm. Particle size reduction is not required. p4684-01 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/04/24 09:00	<i>JP</i> <i>1100 Room</i>	<i>JP</i> <i>RJ / Ext</i>
	Preparation Group	Analysis Group <i>metriy</i>

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
P4640-04	MH-3	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4643-04	BP-F9-ADDITIONAL	02	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4643-08	BP-F8	03	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4643-12	TP-9	04	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4645-04	Z-02-WC	05	100.04	2000	N/A	N/A	N/A	7.2	1.0	T-1
P4659-04	MH-2	06	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
P4660-03	WC-TA2-01-C	07	100.03	2000	N/A	N/A	N/A	11.5	1.0	T-1
P4660-07	WC-WOOD-01-C	08	100.04	2000	N/A	N/A	N/A	10.5	1.5	T-1
P4660-11	WC-CONCRETE-01-C	09	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4667-04	BP-F-6	10	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4667-08	BP-F-5	11	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
P4667-12	BP-F-10	12	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4667-16	BP-F-7	13	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
P4679-04	MH-1	14	100.02	2000	N/A	N/A	N/A	8.6	1.5	T-2
P4680-04	BP-F26	15	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
P4680-08	BP-F25	16	100.01	2000	N/A	N/A	N/A	7.2	1.0	T-2
P4682-02	BELL-SHOP-RAGS	17	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
P4684-01	MECHANIC-ST-SWEEPINGS	18	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-2
PB164560TB	LEB560	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4640-04	MH-3	N/A	N/A	N/A	N/A	100	N/A
P4643-04	BP-F9-ADDITIONAL	N/A	N/A	N/A	N/A	100	N/A
P4643-08	BP-F8	N/A	N/A	N/A	N/A	100	N/A
P4643-12	TP-9	N/A	N/A	N/A	N/A	100	N/A
P4645-04	Z-02-WC	N/A	N/A	N/A	N/A	100	N/A
P4659-04	MH-2	N/A	N/A	N/A	N/A	100	N/A
P4660-03	WC-TA2-01-C	N/A	N/A	N/A	N/A	100	N/A
P4660-07	WC-WOOD-01-C	N/A	N/A	N/A	N/A	100	N/A
P4660-11	WC-CONCRETE-01-C	N/A	N/A	N/A	N/A	100	N/A
P4667-04	BP-F-6	N/A	N/A	N/A	N/A	100	N/A
P4667-08	BP-F-5	N/A	N/A	N/A	N/A	100	N/A
P4667-12	BP-F-10	N/A	N/A	N/A	N/A	100	N/A
P4667-16	BP-F-7	N/A	N/A	N/A	N/A	100	N/A
P4679-04	MH-1	N/A	N/A	N/A	N/A	100	N/A
P4680-04	BP-F26	N/A	N/A	N/A	N/A	100	N/A
P4680-08	BP-F25	N/A	N/A	N/A	N/A	100	N/A
P4682-02	BELL-SHOP-RAGS	N/A	N/A	N/A	N/A	100	N/A
P4684-01	MECHANIC-ST-SWEEPINGS	N/A	N/A	N/A	N/A	100	N/A
PB164560TB	LEB560	N/A	N/A	N/A	N/A	N/A	N/A

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
P4640-04	MH-3	5.02	96.5	5.5	1.5	#1	4.93
P4643-04	BP-F9-ADDITIONAL	5.01	96.5	9.1	4.0	#1	4.93
P4643-08	BP-F8	5.02	96.5	7.6	3.5	#1	4.93
P4643-12	TP-9	5.03	96.5	8.4	3.5	#1	4.93
P4645-04	Z-02-WC	5.02	96.5	9.1	4.0	#1	4.93
P4659-04	MH-2	5.01	96.5	9.0	4.0	#1	4.93
P4660-03	WC-TA2-01-C	5.02	96.5	12.0	4.5	#1	4.93
P4660-07	WC-WOOD-01-C	5.03	96.5	11.0	4.5	#1	4.93
P4660-11	WC-CONCRETE-01-C	5.04	96.5	9.0	4.0	#1	4.93
P4667-04	BP-F-6	5.02	96.5	8.4	3.5	#1	4.93
P4667-08	BP-F-5	5.01	96.5	8.2	3.0	#1	4.93
P4667-12	BP-F-10	5.02	96.5	8.2	3.0	#1	4.93
P4667-16	BP-F-7	5.03	96.5	8.6	3.5	#1	4.93
P4679-04	MH-1	5.04	96.5	8.6	3.5	#1	4.93
P4680-04	BP-F26	5.03	96.5	9.1	4.0	#1	4.93
P4680-08	BP-F25	5.04	96.5	8.6	4.0	#1	4.93
P4682-02	BELL-SHOP-RAGS	5.02	96.5	5.5	1.5	#1	4.93
P4684-01	MECHANIC-ST-SWEEPINGS	5.01	96.5	7.6	2.5	#1	4.93
PB164560TB	LEB560	N/A	N/A	N/A	N/A	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tcip p1640

WorkList ID : 185047

Department : TCLP Extraction

Date : 11-03-2024 09:07:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4640-04	MH-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/30/2024	1311
P4643-04	BP-F9-ADDITIONAL	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/30/2024	1311
P4643-08	BP-F8	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/30/2024	1311
P4643-12	TP-9	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/30/2024	1311
P4645-04	Z-02-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/31/2024	1311
P4659-04	MH-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/31/2024	1311
P4680-08	BP-F25	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L12	11/01/2024	1311
P4682-02	BELL-SHOP-RAGS	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L13	11/01/2024	1311
P4684-01	MECHANIC-ST-SWEEPINGS	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L13	11/01/2024	1311
P4667-04	BP-F-6	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/31/2024	1311
P4667-08	BP-F-5	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/31/2024	1311
P4667-12	BP-F-10	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/31/2024	1311
P4667-16	BP-F-7	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/31/2024	1311
P4679-04	MH-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L11	11/01/2024	1311
P4680-04	BP-F26	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L12	11/01/2024	1311
P4660-03	WC-TA2-01-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	K41	10/30/2024	1311
P4660-07	WC-WOOD-01-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	K41	10/31/2024	1311
P4660-11	WC-CONCRETE-01-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	K41	10/31/2024	1311

Date/Time 11/03/24 10:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11/03/24

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Water

Welgh By: RJ **Extraction By:** RJ

Balance check: RJ **Filter By:** RJ

Balance ID: EX-SC-2 **pH Meter ID:** N/A

pH Strip Lot#: E3574 **Hood ID:** 3,7

Extraction Method: ☒ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction Start Date : 11/06/2024

Extraction Start Time : 09:34

Extraction End Date : 11/06/2024

Extraction End Time : 17:10

Concentration By: EH

Supervisor By : rajesh

Standard 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
NAOH 6N	N/A	EP2553
NACL	N/A	M4459
METHANOL	N/A	V14150
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP2529
1:3 SULPHURIC ACID	N/A	EP2528
Hexane	N/A	E3825
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 HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze,40ML Vial Lot # 03-40 BTS721.

KD Bath ID: N/A **Envap ID:** NEVAP-02

KD Bath Temperature: N/A **Envap Temperature:** 40 °C

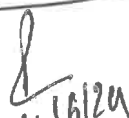
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/6/24	RP (Ext Lab)	RP (Ext Lab)
17:15	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 11/06/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164560TB	PB164560TB	TCLP Herbicide	100	6	RUPESEH	rajesh	10			SEP-1
PB164752BL	HBLK752	TCLP Herbicide	1000	6	RUPESEH	rajesh	10			2
PB164752BS	HLCS752	TCLP Herbicide	1000	6	RUPESEH	rajesh	10			3
P4660-03	WC-TA2-01-C	TCLP Herbicide	100	6	RUPESEH	rajesh	10	A		4
P4660-03MS	WC-TA2-01-CMS	TCLP Herbicide	100	6	RUPESEH	rajesh	10	A		5
P4660-03MS D	WC-TA2-01-CMSD	TCLP Herbicide	100	6	RUPESEH	rajesh	10	A		6
P4660-07	WC-WOOD-01-C	TCLP Herbicide	100	6	RUPESEH	rajesh	10	A		7
P4660-11	WC-CONCRETE-01-C	TCLP Herbicide	100	6	RUPESEH	rajesh	10	A		8

* Extracts relinquished on the same date as received.



TCLP EXTRACTION LOGPAGE

PB164560

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
P4640-04	MH-3	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4643-04	BP-F9-ADDITIONAL	02	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4643-08	BP-F8	03	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4643-12	TP-9	04	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4645-04	Z-02-WC	05	100.04	2000	N/A	N/A	N/A	7.2	1.0	T-1
P4659-04	MH-2	06	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
P4660-03	WC-TA2-01-C	07	100.03	2000	N/A	N/A	N/A	11.5	1.0	T-1
P4660-07	WC-WOOD-01-C	08	100.04	2000	N/A	N/A	N/A	10.5	1.5	T-1
P4660-11	WC-CONCRETE-01-C	09	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4667-04	BP-F-6	10	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4667-08	BP-F-5	11	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
P4667-12	BP-F-10	12	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4667-16	BP-F-7	13	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
P4679-04	MH-1	14	100.02	2000	N/A	N/A	N/A	8.6	1.5	T-2
P4680-04	BP-F26	15	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
P4680-08	BP-F25	16	100.01	2000	N/A	N/A	N/A	7.2	1.0	T-2
P4682-02	BELL-SHOP-RAGS	17	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
P4684-01	MECHANIC-ST-SWEEPINGS	18	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-2
PB164560TB	LEB560	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

11/04/2024
091-00

Prep Standard - Chemical Standard Summary

Order ID : P4660

Test : TCLP Herbicide

Prepbatch ID : PB164752,

Sequence ID/Qc Batch ID: PS110624,

Standard ID :

EP2503,EP2553,PP23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469,PP23699,PP23907,

Chemical ID :

E3370,E3551,E3657,E3754,E3788,E3815,M4459,M5037,P11179,P12618,P12661,P12707,P12782,P12783,P13498,P13499,P13500,P13501,P23457,P8828,P8901,P9004,V14150,W3112,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
601	Acidified Sodium Sulphate 2	EP2503	07/01/2024	12/15/2024	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 07/01/2024
<u>FROM</u>	100.00000ml of E3370 + 150.00000ml of M5037 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3884	6 N NAOH	EP2553	10/21/2024	04/21/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/21/2024
<u>FROM</u>	1000.00000ml of W3112 + 240.00000gram of E3657 = Final Quantity: 1000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1321	2/200 PPM Herb Mega Mix	PP23457	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani 06/18/2024
<u>FROM</u>	0.20000ml of P8828 + 1.00000ml of P11179 + 1.00000ml of P12618 + 1.00000ml of P12661 + 1.00000ml of P8901 + 95.80000ml of E3754 = Final Quantity: 100.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1452	1500 PPB HERB MIX STD	PP23458	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani 06/18/2024
<u>FROM</u>	0.25000ml of E3754 + 75.00000ml of PP23457 = Final Quantity: 1.000 ml							

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1453	1000 PPB Herb MIX STD	PP23459	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of E3754 + 0.50000ml of PP23457 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1455	500 PPB Herb MIX STD	PP23460	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of E3754 + 0.50000ml of PP23459 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1456	200 PPB Herb MIX STD	PP23461	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.80000ml of E3754 + 0.20000ml of PP23459 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1454	750 PPB Herb MIX STD	PP23462	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.25000ml of E3754 + 0.75000ml of PP23459 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP23467	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of P9004 + 1.00000ml of P12707 + 48.50000ml of E3754 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1854	1000 PPB HERB MIX ICV STD	PP23468	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of E3754 + 0.50000ml of PP23467 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1691	750 PPB ICV HERB STD	PP23469	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.25000ml of E3754 + 0.75000ml of PP23468 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP23699	09/24/2024	02/13/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 1.25000ml of P12782 + 1.25000ml of P12783 + 47.50000ml of E3788 = Final Quantity: 50.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP23907	10/21/2024	04/04/2025	Abdul Mirza	None	None	Ankita Jodhani
10/22/2024								
<u>FROM</u> 1.25000ml of P13498 + 1.25000ml of P13499 + 1.25000ml of P13500 + 1.25000ml of P13501 + 195.00000ml of E3815 = Final Quantity: 200.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	01/17/2025	08/01/2022 / Rajesh	07/13/2022 / Rajesh	E3370

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	12/04/2024	06/04/2024 / Rajesh	05/31/2024 / Rajesh	E3754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	12/17/2024	06/17/2024 / Abdul	11/01/2021 / Abdul	P11179

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	12/17/2024	06/17/2024 / Abdul	07/03/2023 / Abdul	P12618

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0199693	12/17/2024	06/17/2024 / Abdul	07/14/2023 / Ankita	P12661

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13498

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13499

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13500

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13501

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0148063	12/17/2024	06/17/2024 / Abdul	08/16/2019 / Stephen	P8828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32059 / Herbicide Mix#3 (Methyl Ester), 20000 ug/ml	A0152499	12/17/2024	06/17/2024 / Abdul	08/16/2019 / Stephen	P8901

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0152705	12/17/2024	06/17/2024 / Abdul	10/11/2019 / Stephen	P9004

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	04/23/2025	10/23/2024 / Rajesh	02/06/2024 / SAM	V14150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent



From M4452 to M4459

Received on : 10/30/2019

Received by : AK

Material No.: 3624-05

Batch No.: 0000237721

Manufactured Date: 2019/04/15

Retest Date: 2026/04/13

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

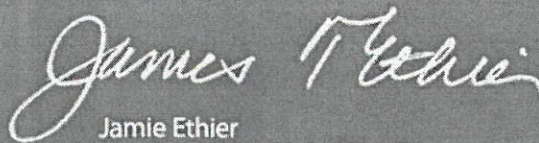
Test	Specification	Result
Assay (NaCl) (by Ag titrn)	$\geq 99.0 \%$	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	$\leq 0.005 \%$	< 0.001
Iodide (I)	$\leq 0.002 \%$	< 0.002
Bromide (Br)	$\leq 0.01 \%$	< 0.01
Chlorate and Nitrate (as NO_3)	$\leq 0.003 \%$	< 0.001
ACS - Phosphate (PO_4)	$\leq 5 \text{ ppm}$	< 5
Sulfate (SO_4)	$\leq 0.004 \%$	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	$\leq 5 \text{ ppm}$	< 5
Iron (Fe)	$\leq 2 \text{ ppm}$	< 2
Calcium (Ca)	$\leq 0.002 \%$	< 0.001
Magnesium (Mg)	$\leq 0.001 \%$	< 0.001
Potassium (K)	$\leq 0.005 \%$	0.002

For Laboratory, Research or Manufacturing Use

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction



Material No.: 9244-03
Batch No.: 0000288039
Manufactured Date: 2021/07/22
Expiration Date: 2023/07/22
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

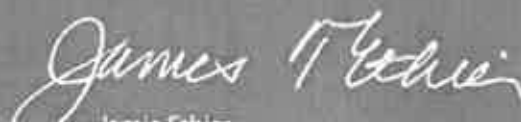
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titration Acid (μeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Recd. by RP on 7/13/22

E 3370


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

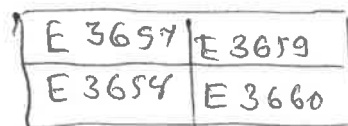
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by R1 on 5/31/24

E3754

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantorsm



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

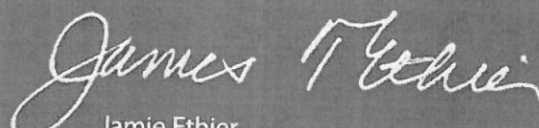
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

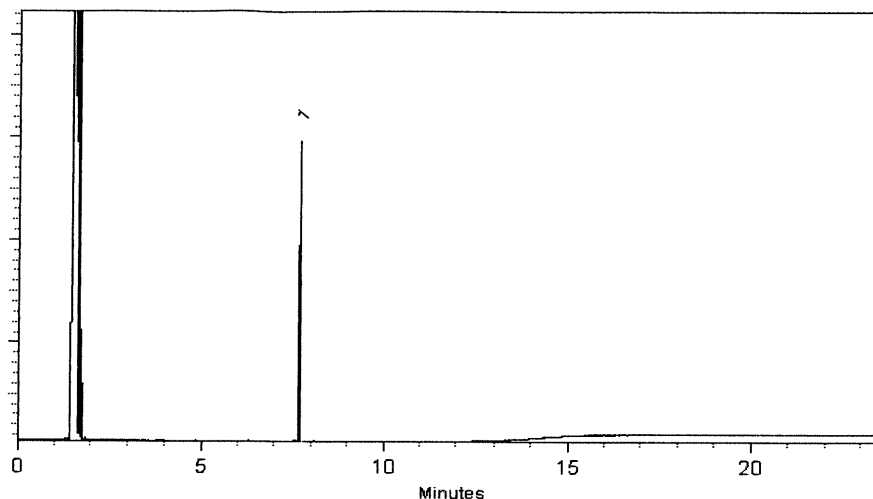
250°C

Det. Temp:

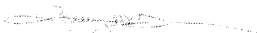
330°C

Det. Type:

FID

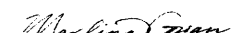


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P11177
↓
P11186
—
AR
01/02/21



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32062 **Lot No.:** A0155055

Description : Herbicide Mix #4/ME (Methyl Ester)

Herbicide Mix #4/ME (Methyl Ester) 200µg/mL,
Hexane/Methyl-tert-butyl-ether, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 10°C or colder

P12616 / (5)
↓
P12620
✓ *Paul* =
7/5/2023

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	3,5-Dichlorobenzoic acid methyl ester CAS # 2905-67-1 (Lot 3903900) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
2	4-Nitroanisole CAS # 100-17-4 (Lot 24765/7) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
3	Pentachloroanisole CAS # 1825-21-4 (Lot 7921100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
4	Chloramben methyl ester CAS # 7286-84-2 (Lot 6487100) Purity 98%	199.9 µg/mL	+/- 1.4176	µg/mL	Gravimetric	
			+/- 6.7480	µg/mL	Unstressed	
			+/- 6.7480	µg/mL	Stressed	
5	Bentazon methyl ester CAS # 61592-45-8 (Lot 817100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
6	Picloram methyl ester CAS # 14143-55-6 (Lot 386-21B) Purity 98%	201.9 µg/mL	+/- 1.4315	µg/mL	Gravimetric	
			+/- 6.8141	µg/mL	Unstressed	
			+/- 6.8141	µg/mL	Stressed	
7	DCPA methyl ester (Chlorthal-dimethyl) CAS # 1861-32-1 (Lot 8008700) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	

8	Acifluorfen methyl ester	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7 (Lot 6282300)		+/- 6.7507	µg/mL	Unstressed
	Purity 99%		+/- 6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

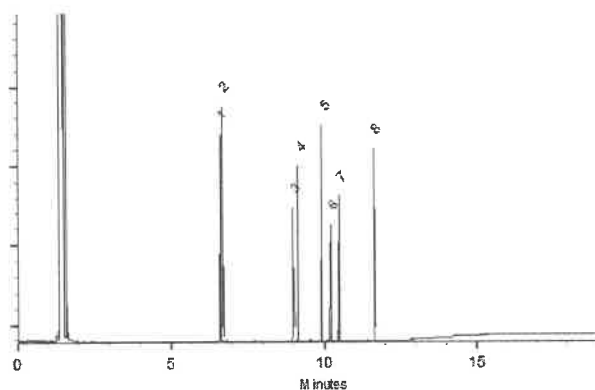
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maje

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson
Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32055 **Lot No.:** A0199693

Description : Herbicide Mix #1/ME (Methyl Ester)
Herbicide Mix #1/ME (Methyl Ester) 200 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Dicamba methyl ester	6597-78-0	1813500	99%	202.0 µg/mL	+/- 3.4272
2	Dichlorprop methyl ester	57153-17-0	8578700	98%	201.9 µg/mL	+/- 3.4251
3	2,4-D methyl ester	1928-38-7	10048000	99%	202.0 µg/mL	+/- 3.4272
4	2,4,5-TP (silvex) methyl ester	4841-20-7	504400	99%	202.0 µg/mL	+/- 3.4272
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	201.9 µg/mL	+/- 3.4251
6	Dinoseb methyl ether	6099-79-2	9239100	99%	202.0 µg/mL	+/- 3.4272
7	2,4-DB methyl ester	18625-12-2	6847200	99%	202.0 µg/mL	+/- 3.4272

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P12660
↓
P12664

AJ
07/11/23

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

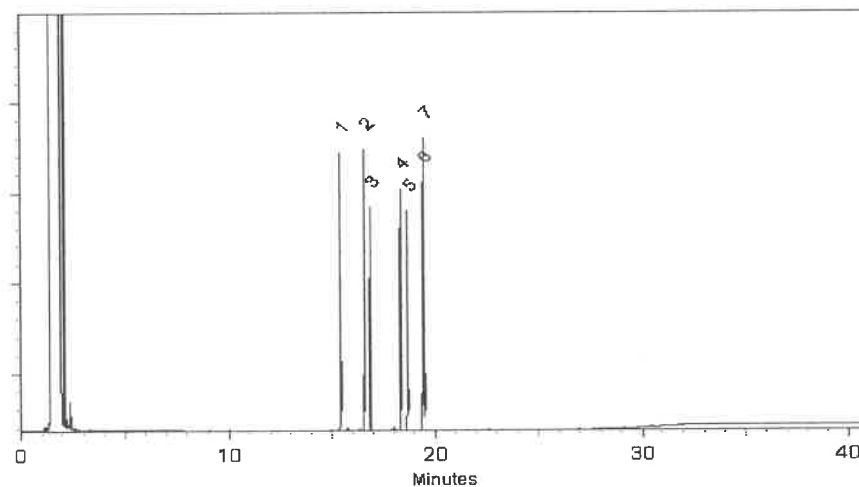
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Nick Yaw

Nick Yaw - Operations Tech I

Date Mixed: 07-Jul-2023

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 11-Jul-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P12706
↓
P12715
/ (10)
/ 1
/ 8/15/23

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Lot Number: 0006752480

Product Number: HBM-8151M-1

Lot Issue Date: 18-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen methyl ester	100.3 ±	0.5 µg/mL	050594-67-7	RM03058
bentazon methyl derivative	100.2 ±	0.5 µg/mL	061592-45-8	RM13829
chloramben methyl ester	100.4 ±	0.5 µg/mL	007286-84-2	RM03055
2,4-D methyl ester	100.2 ±	0.5 µg/mL	001928-38-7	RM03040
dalapon methyl ester	100.4 ±	0.5 µg/mL	017640-02-7	RM14219
2,4-DB methyl ester	100.2 ±	0.5 µg/mL	018625-12-2	RM03029
DCPA	100.2 ±	0.5 µg/mL	001861-32-1	RM13426
dicamba methyl ester	100.4 ±	0.5 µg/mL	006597-78-0	RM03039
methyl-3,5-dichlorobenzoate	100.1 ±	0.5 µg/mL	002905-67-1	RM03048
dichlorprop methyl ester	100.4 ±	0.5 µg/mL	057153-17-0	NT02086
dinoseb methyl ether	100.5 ±	0.5 µg/mL	006099-79-2	RM03051
MCPA methyl ester	10031 ±	50 µg/mL	002436-73-9	RM12863
MCPP methyl ester	10031 ±	50 µg/mL	023844-56-6	RM20060
4-nitroanisole	100.3 ±	0.5 µg/mL	000100-17-4	RM02806
pentachloroanisole	100.4 ±	0.5 µg/mL	001825-21-4	RM02457
picloram methyl ester	100.2 ±	0.5 µg/mL	014143-55-6	RM03044
silvex methyl ester	100.2 ±	0.5 µg/mL	004841-20-7	RM03799
2,4,5-T methyl ester	100.4 ±	0.5 µg/mL	001928-37-6	RM03033

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

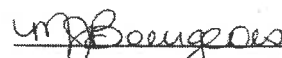
Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P 12706 / (10)
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P 12715
✓ RAUF
8.15.23



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12766
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P12785
✓
9.11.23
20

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1 ± 0.5 µg/mL	050594-66-6	NT02057	
bentazon	100.1 ± 0.5 µg/mL	025057-89-0	RM20289	
chloramben	100.4 ± 0.5 µg/mL	000133-90-4	RM02698	
2,4-D	100.1 ± 0.5 µg/mL	000094-75-7	RM17172	
dalapon	100.4 ± 0.5 µg/mL	000075-99-0	RM21030	
2,4-DB	100.1 ± 0.5 µg/mL	000094-82-6	RM02866	
tetrachloroterephthalic acid	100.3 ± 0.5 µg/mL	002136-79-0	RM13887	
dicamba	100.2 ± 0.5 µg/mL	001918-00-9	RM20089	
3,5-dichlorobenzoic acid	100.0 ± 0.5 µg/mL	000051-36-5	RM02768	
dichlorprop	100.0 ± 0.5 µg/mL	000120-36-5	RM20896	
dinoseb	100.0 ± 0.5 µg/mL	000088-85-7	RM20667	
MCPA	100.4 ± 50 µg/mL	000094-74-6	RM12220	
MCPP (mecoprop)	100.37 ± 50 µg/mL	000093-65-2	RM09273	
4-nitrophenol	100.1 ± 0.5 µg/mL	000100-02-7	RM03752	
pentachlorophenol	100.1 ± 0.5 µg/mL	000087-86-5	RM02474	
picloram	100.4 ± 0.5 µg/mL	001918-02-1	RM20442	
silvex	100.1 ± 0.5 µg/mL	000093-72-1	RM20208	
2,4,5-T	100.4 ± 0.5 µg/mL	000093-76-5	NT01808	

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P12766 / (20)
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P12785 / 1

9/11/2023



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12766
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P12785
✓
9.11.23
20

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1	± 0.5 µg/mL	050594-66-6	NT02057
bentazon	100.1	± 0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4	± 0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1	± 0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	± 0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1	± 0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3	± 0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2	± 0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0	± 0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0	± 0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0	± 0.5 µg/mL	000088-85-7	RM20667
MCPA	100.4	± 50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	100.37	± 50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1	± 0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1	± 0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	± 0.5 µg/mL	001918-02-1	RM20442
silvex	100.1	± 0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4	± 0.5 µg/mL	000093-76-5	NT01808

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

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Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P12766 / (20)
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P12785 /
✓
9/11/2023



ISO 17034
Cert No. AR-1936

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Page: 2 of 2

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CSD-QA-015.2

ISO 17025
Cert No. AT-1937



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

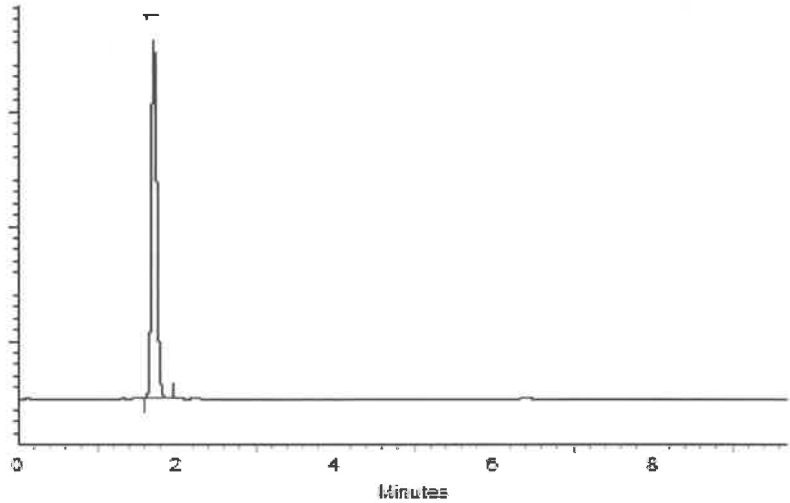
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

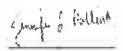


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
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P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

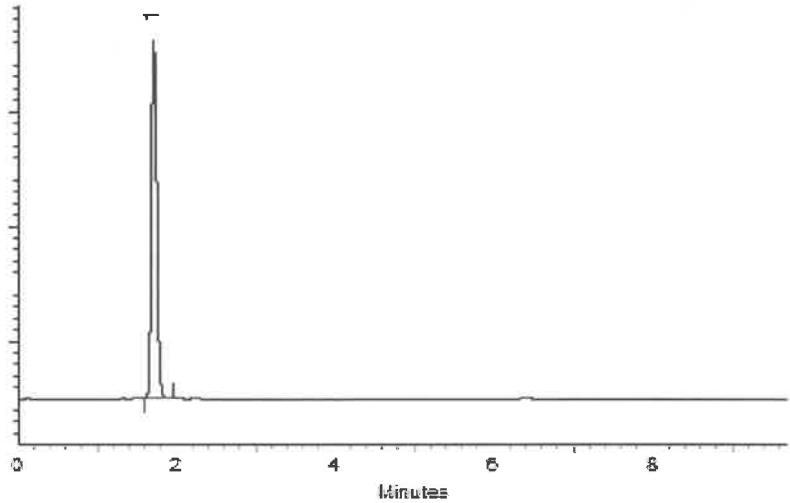
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

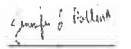


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
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P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

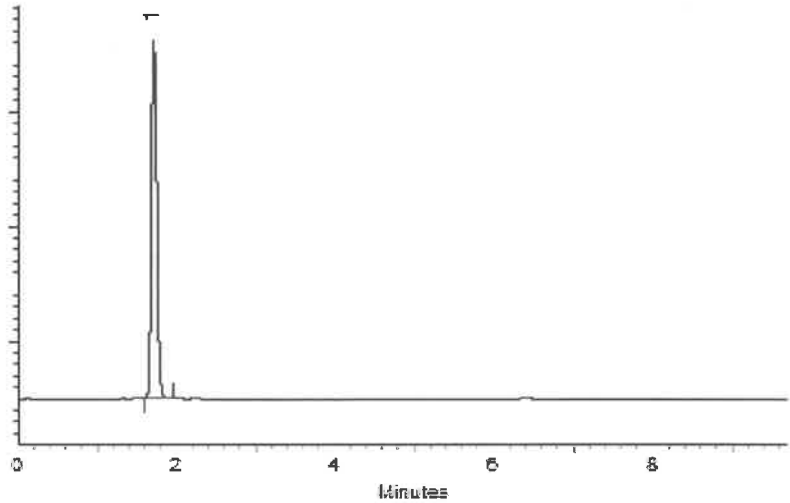
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

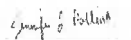


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
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P13515 } 08/15/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

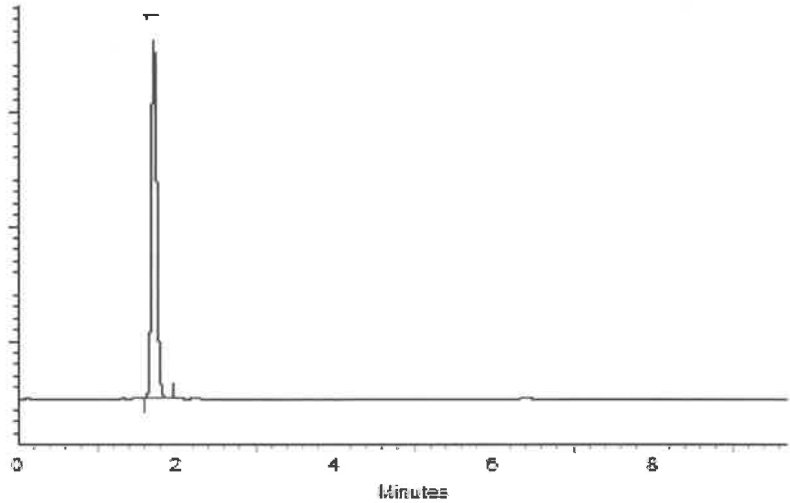
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

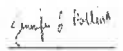


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32254 **Lot No.:** A0148063
Description : Dalapon methyl ester Standard
Dalapon methyl ester 1000µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 8/16/19
P8828
P8826

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dalapon methyl ester CAS # 17640-02-7 Purity 98% (Lot 1764600)	999.6 µg/mL	+/- 10.0697 µg/mL Gravimetric +/- 34.4896 µg/mL Unstressed +/- 34.4896 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

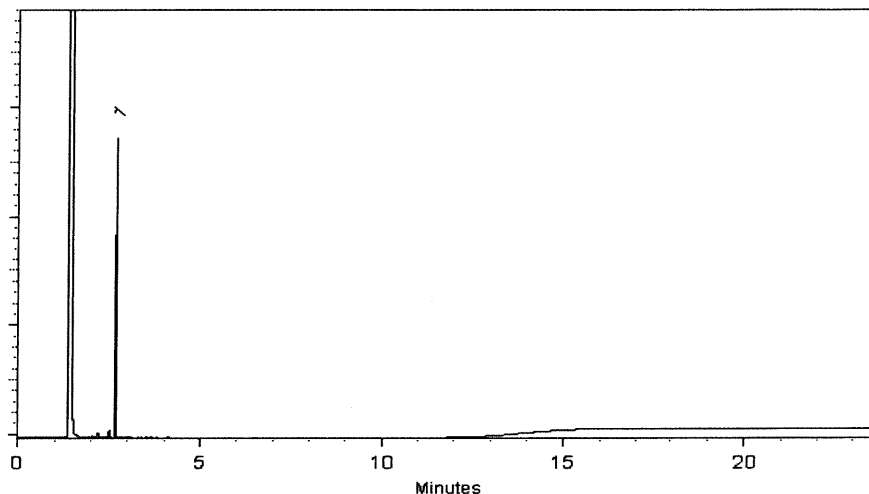
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2019

Balance: 1127510105

Feng-Yin Lo - QC Analyst

Date Passed: 15-Apr-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by
SG on 9/10/19
P8892
P8896

Catalog No. : 32059 **Lot No.:** A0152499

Description : Herbicide Mix #3/ME (Methyl Ester)
Herbicide Mix #3/ME (Methyl Ester) 20,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)							
1	MCPP (Mecoprop) methyl ester		20,004.0 μg/mL	+/-	185.1208	μg/mL	Gravimetric				
	CAS #	23844-56-6 (Lot 8685200)						+/-	685.5986	μg/mL	Unstressed
	Purity	99%						+/-	685.5986	μg/mL	Stressed
2	MCPA methyl ester		20,012.0 μg/mL	+/-	185.1948	μg/mL	Gravimetric				
	CAS #	2436-73-9 (Lot 7964600)						+/-	685.8728	μg/mL	Unstressed
	Purity	99%						+/-	685.8728	μg/mL	Stressed
Solvent:	Hexane										
	CAS #	110-54-3									
	Purity	99%									

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

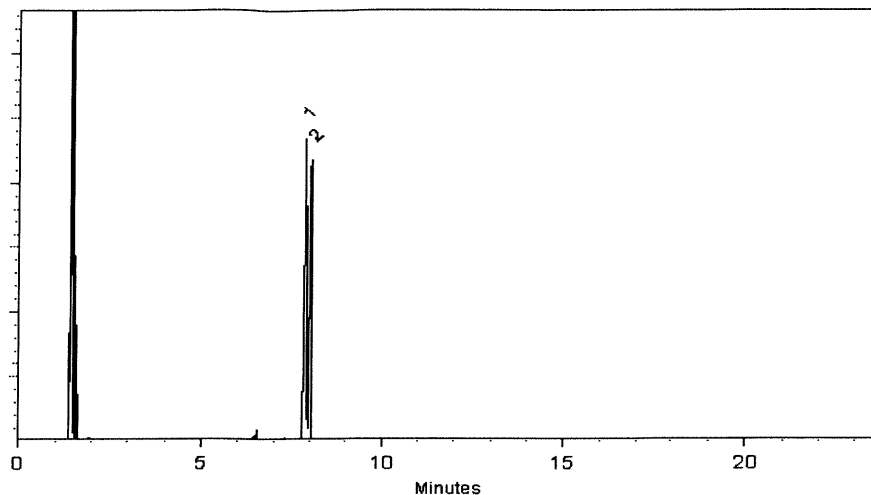
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 03-Sep-2019

Balance: 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 05-Sep-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 Lot No.: A0152705
Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard
515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : June 30, 2026 Storage: 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 10/11/19
P8999
-
P9008

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.7507 µg/mL Unstressed
	Purity 99%		+/- 6.7507 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

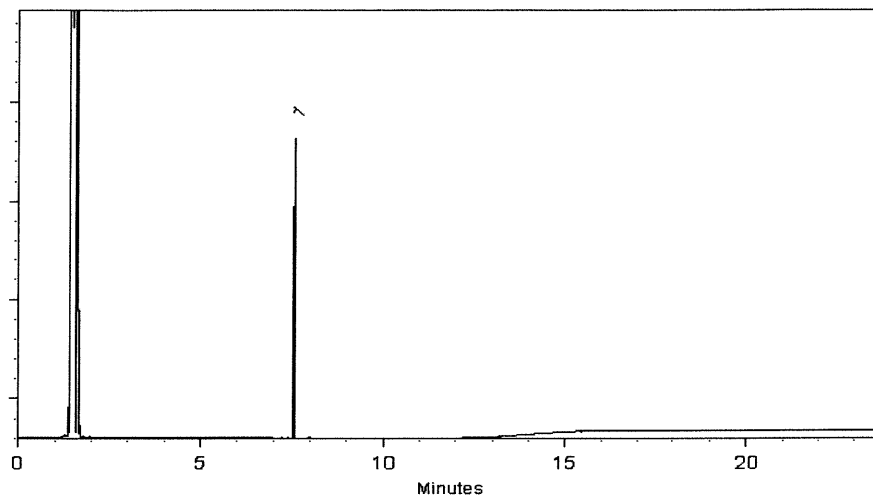
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 09-Sep-2019

Balance: B707717271

Fang-Yun Lo
Fang-Yun Lo - GC Analyst

Date Passed: 11-Sep-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 788-9222

www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

P4660

COC Number: 2042101

Page 1 of 2

CLIENT INFORMATION

COMPANY: ENTACT, LLC

ADDRESS: 150 Bay Street, Suite 806

CITY: Jersey City STATE: NJ ZIP: 07302

ATTENTION: Jarod Stanfield

PHONE: 670-886-0442

FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY

PROJECT #: E9309 LOCATION: Brooklyn, NY

PROJECT MANAGER: Jarod Stanfield

E-MAIL: jstanfield@entact.com

PHONE: 570-886-0442

FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC

PO# E9309

ADDRESS: 999 Oakmont Plaza Drive, Suite 300

CITY: Westmont

STATE: IL ZIP: 60559

ATTENTION: Wendy Murray

PHONE: 800-936-8228

DATA TURNAROUND INFORMATION

FAX: 5 DAYS*
HARD COPY: DAYS*
EDD: DAYS*

* TO BE APPROVED BY ALLIANCE

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY ☐ USEPA CLP
☒ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format

ANALYSIS

TCLP VOCs	TCLP ICP Metals	TCLP Herb	TCLP Pest	TCLP SVOCs	TCLP pH	I/C/R	PCBs	Oil & Grease
1	2	3	4	5	6	7	8	9

PRESERVATIVES

COMMENTS

<- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles									
			COMP	GRAB	DATE	TIME		E	E	E	E	E	E	E	E	E
1.	WC-TA2-01-G	Soil		X	10/28	15:15	1	X								
2.	WC-TA2-01-C	Soil	X		10/30	13:30	11		X	X	X	X	X	X	X	X
3.	WC-Wood-01-G	Solid		X	10/31	12:30	1	X								
4.	WC-Wood-01-C	Solid	X		10/31	13:30	11		X	X	X	X	X	X	X	X
5.	WC-Concrete-01-G	Solid		X	10/31	14:30	1	X								
6.	WC-Concrete-01-C	Solid	X		10/31	15:30	12		X	X	X	X	X	X	X	X
7.																
8.																
9.																
10.																

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

RELINQUISHED BY SAMPLER 1. Jarod Stanfield	DATE/TIME 10/31 13:21	RECEIVED BY 	1325 10-31-24	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>3.1 C</u> ☐ Ice in Cooler?: _____
RELINQUISHED BY	DATE/TIME	RECEIVED BY		Comments:
2.				
RELINQUISHED BY 	DATE/TIME 10-31-24	RECEIVED FOR LAB BY		
3.				

Page _____ of _____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☒ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY



284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 788-9222

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CHAIN OF CUSTODY RECORD

Alliance Project Number:

P4660

COC Number: 2042101

Page 2 of 2

CLIENT INFORMATION

COMPANY: ENTACT, LLC

ADDRESS: 150 Bay Street, Suite 806

CITY Jersey City STATE: NJ ZIP: 07302

ATTENTION: Jarod Stanfield

PHONE: 570-886-0442

FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY

PROJECT #: E9309

LOCATION: Brooklyn, NY

PROJECT MANAGER: Jarod Stanfield

E-MAIL: jstanfield@entact.com

PHONE: 570-886-0442

FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC

PO# E9309

ADDRESS: 999 Oakmont Plaza Drive, Suite 300

CITY: Westmont

STATE: IL ZIP: 60559

ATTENTION: Wendy Murray

PHONE: 800-936-8228

ANALYSIS

ASTM COD	ASTM Ammonia-Nitrogen	ASTM O&G	ASTM TS	TS, TVS	pH	Paint Filter		
10	11	12	13	14	15	16		

PRESERVATIVES

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles									
			COMP	GRAB	DATE	TIME		E	E	E	E	E	E			
1.	WC-TA2-01-G	Soil		X	10/28	15:15	1									
2.	WC-TA2-01-C	Soil	X		10/30	13:30	11	X	X	X	X	X	X			
3.	WC-Wood-01-G	Solid		X	10/31	12:30	1									
4.	WC-Wood-01-C	Solid	X		10/31	13:30	11	X	X	X	X	X	X			
5.	WC-Concrete-01-G	Solid		X	10/31	14:30	1									
6.	WC-Concrete-01-C	Solid	X		10/31	15:30	12	X	X	X	X	X	X			
7.																
8.																
9.																
10.																

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

RELINQUISHED BY SAMPLER 1. Jarod Stanfield	DATE/TIME 10/31/13	RECEIVED BY 1. [Signature] 1325	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.1 C ☐ Ice in Cooler?: Comments:	
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.		
RELINQUISHED BY 3. [Signature]	DATE/TIME 10-31-24	RECEIVED FOR LAB BY 3.		
Page ____ of ____			SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight ALLIANCE: ☒ Picked Up ☐ Overnight	Shipment Complete ☐ YES ☐ NO



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 (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488