

Cover Page

Order ID : Q1929

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

Client : ENTACT

Lab Sample Number

Q1929-01
Q1929-02
Q1929-03
Q1929-04
Q1929-05
Q1929-06
Q1929-07
Q1929-08
Q1929-09
Q1929-10
Q1929-11
Q1929-12

Client Sample Number

WC-A4-02-G
WC-A4-02-C
WC-A4-02-C
WC-A4-02-C
WC-A1-03-G
WC-A1-03-C
WC-A1-03-C
WC-A1-03-C
WC-A1-04-G
WC-A1-04-C
WC-A1-04-C
WC-A1-04-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: 5/8/2025

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 #: Q1929

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 05/08/2025

LAB CHRONICLE

OrderID:	Q1929	OrderDate:	5/1/2025 12:26:00 PM
Client:	ENTACT	Project:	540 Degraw St, Brooklyn, NY - E9309
Contact:	Jarod Stanfield	Location:	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1929-02	WC-A4-02-C	SOIL			04/29/25			05/01/25
			PCB	8082A		05/02/25	05/02/25	
Q1929-03	WC-A4-02-C	TCLP			04/29/25			05/01/25
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/02/25	05/05/25	
Q1929-06	WC-A1-03-C	SOIL			04/30/25			05/01/25
			PCB	8082A		05/02/25	05/02/25	
Q1929-07	WC-A1-03-C	TCLP			04/30/25			05/01/25
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/02/25	05/05/25	
Q1929-10	WC-A1-04-C	SOIL			04/30/25			05/01/25
			PCB	8082A		05/02/25	05/02/25	
Q1929-11	WC-A1-04-C	TCLP			04/30/25			05/01/25
			TCLP Herbicide	8151A		05/05/25	05/06/25	
			TCLP Pesticide	8081B		05/02/25	05/05/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q1929

Order ID: Q1929

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.: Q1929

Client: ENTACT

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS029918.D	PIBLK-PS029918.D	2,4-DCAA	1	500	433	87		70 (39)	130 (175)
		2,4-DCAA	2	500	433	87		70 (39)	130 (175)
I.BLK-PS030051.D	PIBLK-PS030051.D	2,4-DCAA	1	500	541	108		70 (39)	130 (175)
		2,4-DCAA	2	500	561	112		70 (39)	130 (175)
Q1929-03	WC-A4-02-C	2,4-DCAA	1	500	420	84		70 (39)	130 (175)
		2,4-DCAA	2	500	310	62	*	70 (39)	130 (175)
Q1929-07	WC-A1-03-C	2,4-DCAA	1	500	489	98		70 (39)	130 (175)
		2,4-DCAA	2	500	352	70		70 (39)	130 (175)
Q1929-11	WC-A1-04-C	2,4-DCAA	1	500	391	78		70 (39)	130 (175)
		2,4-DCAA	2	500	294	59	*	70 (39)	130 (175)
PB167871BL	PB167871BL	2,4-DCAA	1	500	620	124		70 (39)	130 (175)
		2,4-DCAA	2	500	616	123		70 (39)	130 (175)
PB167871BS	PB167871BS	2,4-DCAA	1	500	555	111		70 (39)	130 (175)
		2,4-DCAA	2	500	562	112		70 (39)	130 (175)
I.BLK-PS030058.D	PIBLK-PS030058.D	2,4-DCAA	1	500	533	107		70 (39)	130 (175)
		2,4-DCAA	2	500	558	112		70 (39)	130 (175)
PB167815TB	PB167815TB	2,4-DCAA	1	500	593	119		70 (39)	130 (175)
		2,4-DCAA	2	500	617	123		70 (39)	130 (175)
Q1901-08MS	B-167-SB01MS	2,4-DCAA	1	500	690	138	*	70 (39)	130 (175)
		2,4-DCAA	2	500	577	115		70 (39)	130 (175)
Q1901-08MSD	B-167-SB01MSD	2,4-DCAA	1	500	691	138	*	70 (39)	130 (175)
		2,4-DCAA	2	500	590	118		70 (39)	130 (175)
I.BLK-PS030069.D	PIBLK-PS030069.D	2,4-DCAA	1	500	537	107		70 (39)	130 (175)
		2,4-DCAA	2	500	563	113		70 (39)	130 (175)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1929

Client: ENTACT

Analytical Method: 8151A

DataFile : PS030063.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	B-167-SB01MS											
Q1901-08MS	2,4-D	50	0	64.2	ug/L	128				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	63.4	ug/L	127				70 (62)	130 (139)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1929

Client: ENTACT

Analytical Method: 8151A

DataFile : PS030064.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	B-167-SB01MSD											
Q1901-08MSD	2,4-D	50	0	67.0	ug/L	134	*	5		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	66.1	ug/L	132	*	4		70 (62)	130 (139)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1929

Client: ENTACT

Analytical Method: **8151A** **Datafile :** PS030057.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB167871BS	2,4-D	5	5.30	ug/L	106				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.40	ug/L	108				70 (78)	130 (127)	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167871BL

Lab Name: CHEMTECH

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929

SAS No.: Q1929 SDG NO.: Q1929

Lab Sample ID: PB167871BL

Lab File ID: PS030056.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 05/05/2025

Date Analyzed (1): 05/06/2025

Date Analyzed (2): 05/06/2025

Time Analyzed (1): 13:03

Time Analyzed (2): 13:03

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-A4-02-C	Q1929-03	PS030053.D	05/06/2025	05/06/2025
WC-A1-03-C	Q1929-07	PS030054.D	05/06/2025	05/06/2025
WC-A1-04-C	Q1929-11	PS030055.D	05/06/2025	05/06/2025
PB167871BS	PB167871BS	PS030057.D	05/06/2025	05/06/2025
PB167815TB	PB167815TB	PS030061.D	05/06/2025	05/06/2025
B-167-SB01MS	Q1901-08MS	PS030063.D	05/06/2025	05/06/2025
B-167-SB01MSD	Q1901-08MSD	PS030064.D	05/06/2025	05/06/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	05/05/25
Client Sample ID:	PB167815TB	SDG No.:	Q1929
Lab Sample ID:	PB167815TB	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
PS030061.D	1	05/05/25 08:50	05/06/25 15:04	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	617		70 (39) - 130 (175)	123%	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\PS050625\
Data File : PS030061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 15:04
Operator : AR\AJ
Sample : PB167815TB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167815TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 04:40:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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	6.937	7.461	1458.4E6	434.4E6	592.577	616.608

Target Compounds

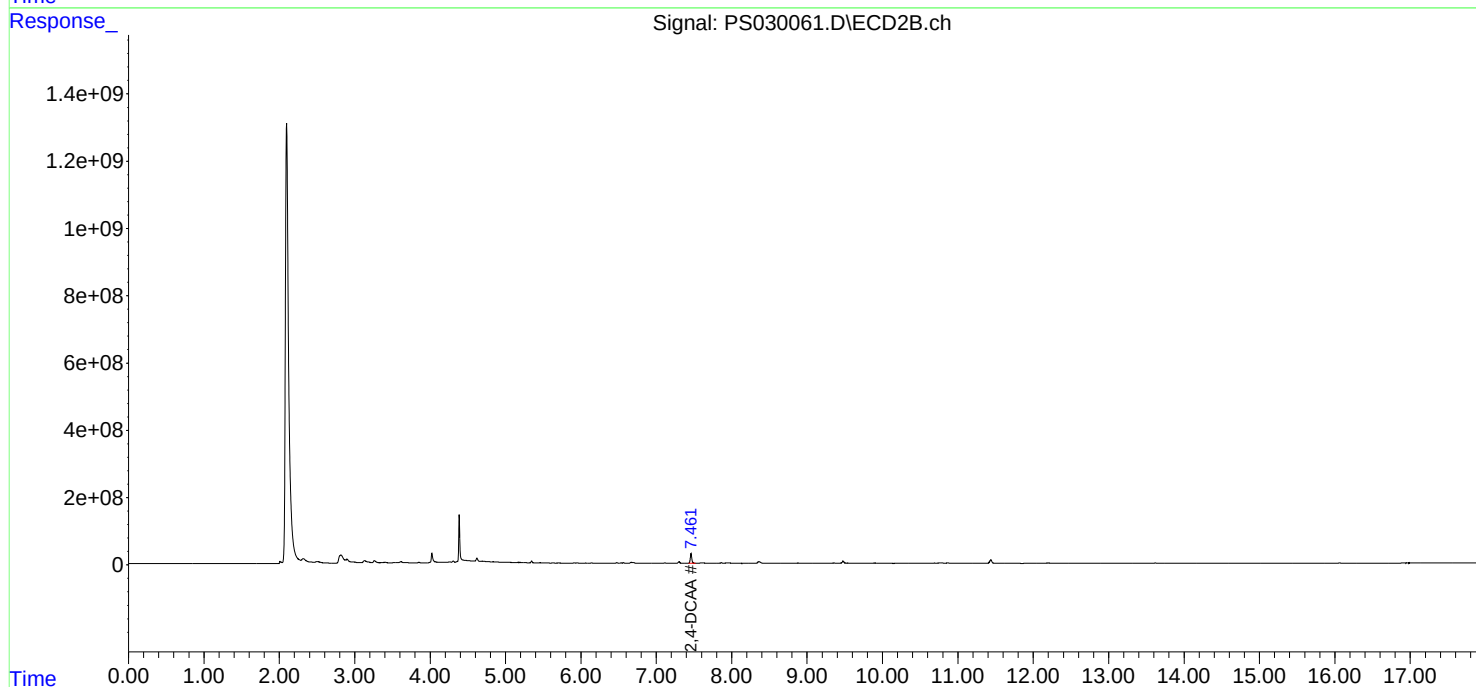
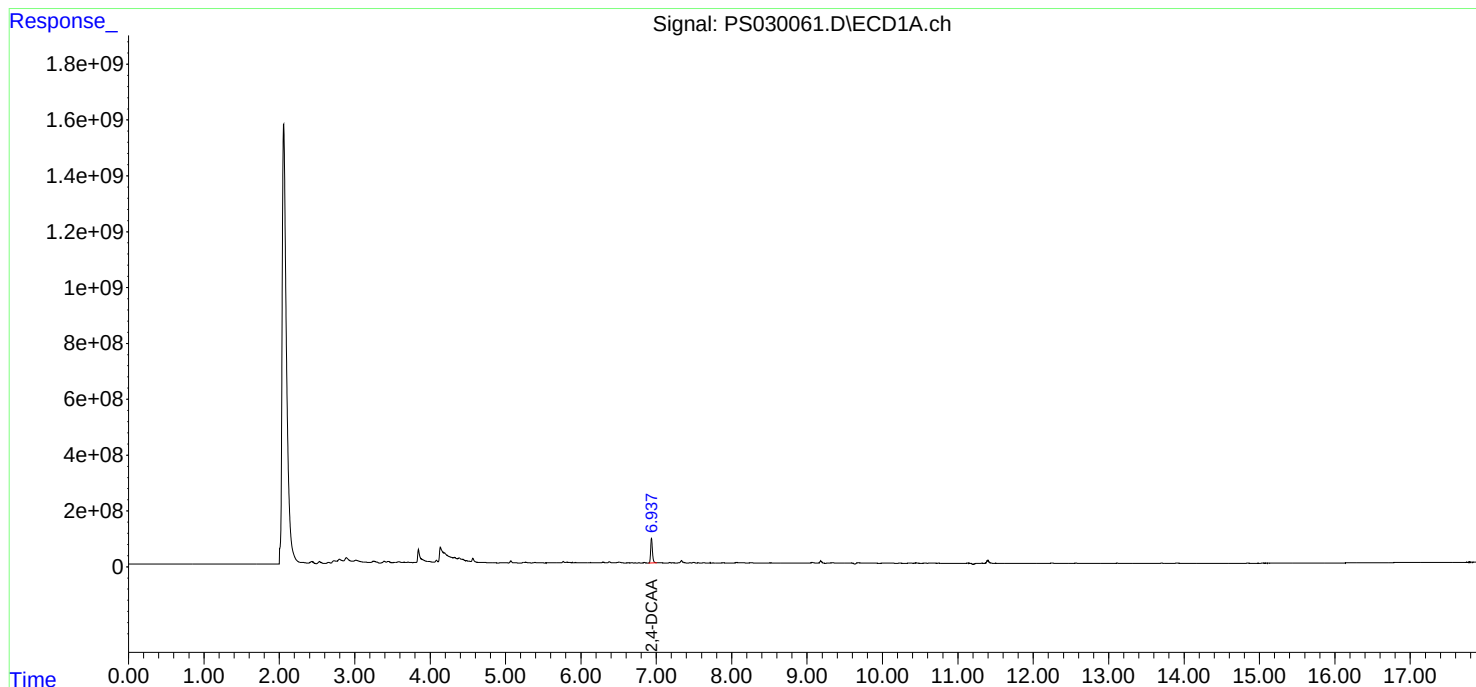
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

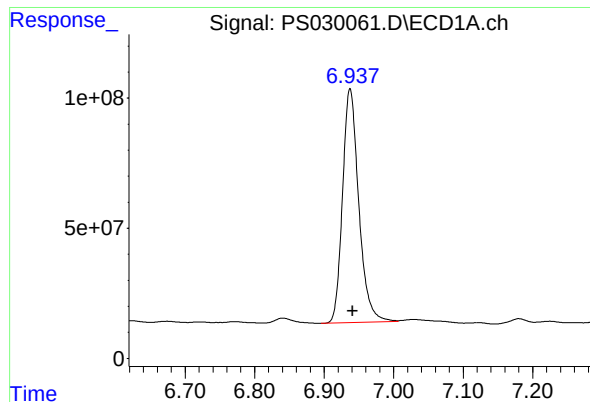
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 15:04
Operator : AR\AJ
Sample : PB167815TB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167815TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 04:40:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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.: 6.937 min

Delta R.T.: -0.004 min

Response: 1458378905

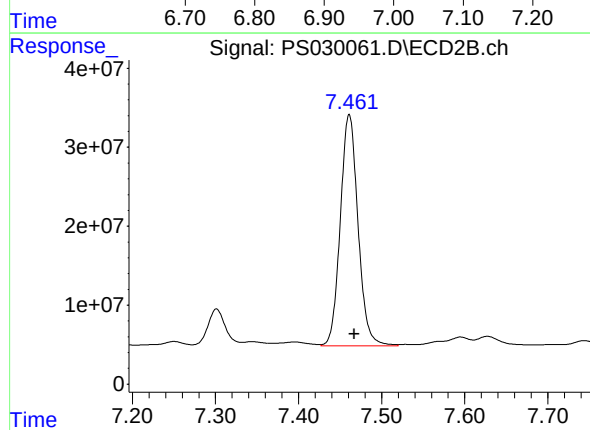
Conc: 592.58 ng/ml

Instrument :

ECD_S

ClientSampleId :

PB167815TB



#4 2,4-DCAA

R.T.: 7.461 min

Delta R.T.: -0.006 min

Response: 434411013

Conc: 616.61 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	04/29/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	05/01/25
Client Sample ID:	WC-A4-02-C	SDG No.:	Q1929
Lab Sample ID:	Q1929-03	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
PS030053.D	1	05/05/25 08:50	05/06/25 11:27	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	420		70 (39) - 130 (175)	84%	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\PS050625\
 Data File : PS030053.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 11:27
 Operator : AR\AJ
 Sample : Q1929-03
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-A4-02-C

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 06 13:11:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.940	7.460	1033.1E6	218.1E6	419.769	309.621m#

Target Compounds

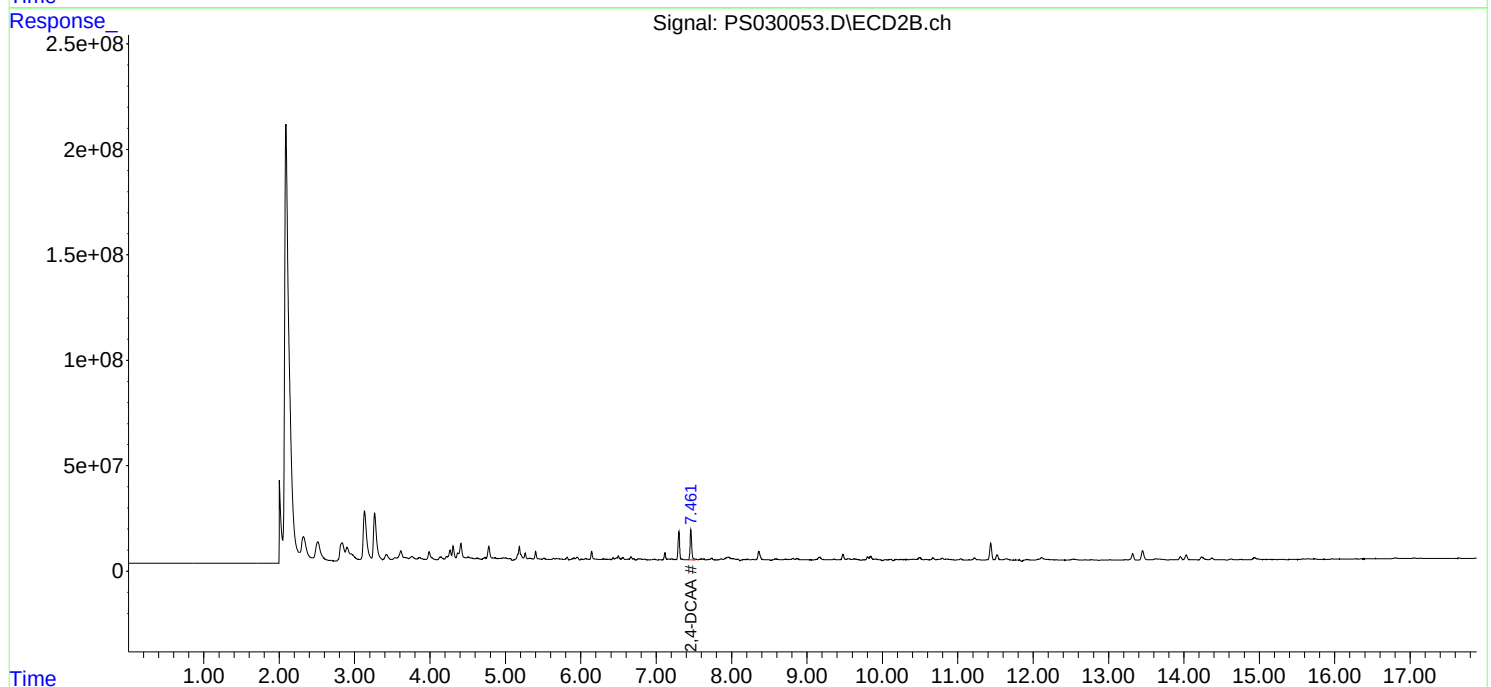
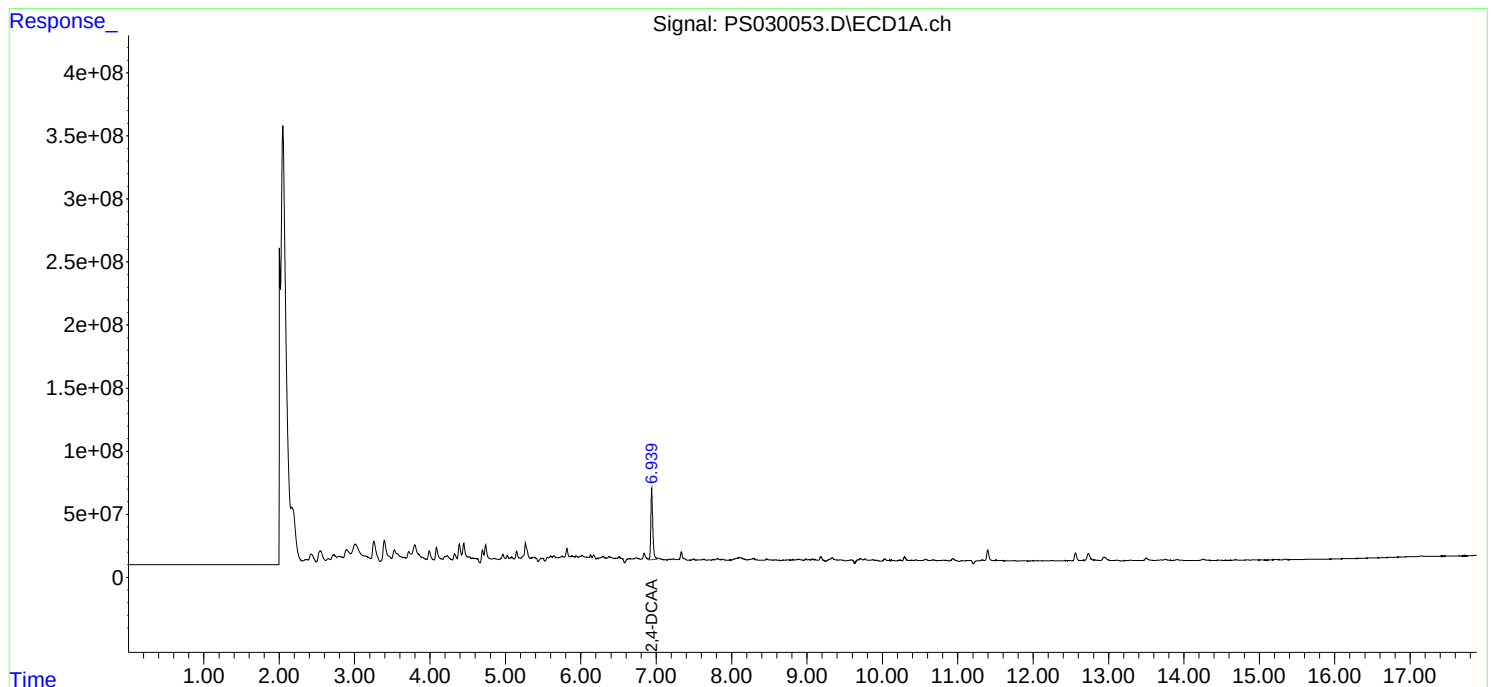
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

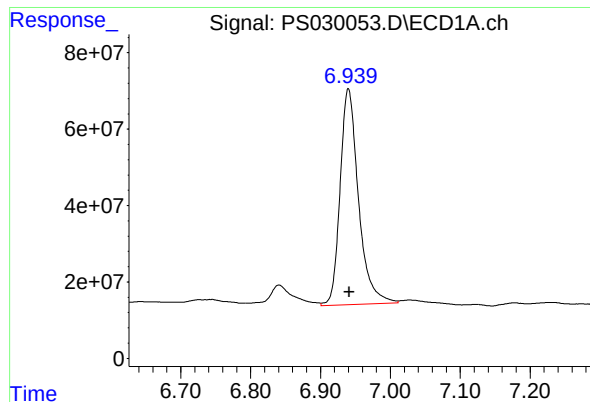
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 11:27
Operator : AR\AJ
Sample : Q1929-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-A4-02-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 13:11:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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.: 6.940 min

Delta R.T.: -0.001 min

Response: 1033085414

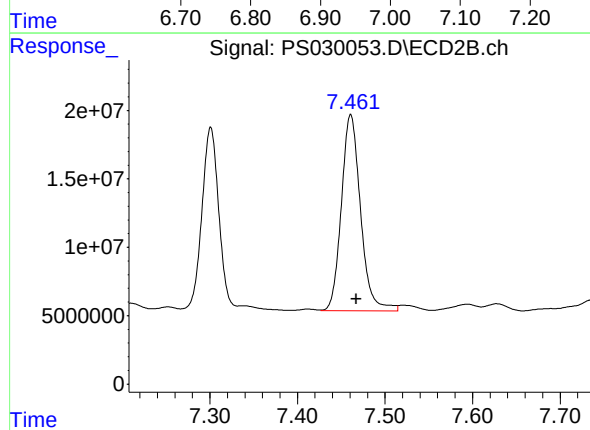
Conc: 419.77 ng/ml

Instrument :

ECD_S

ClientSampleId :

WC-A4-02-C



#4 2,4-DCAA

R.T.: 7.460 min

Delta R.T.: -0.007 min

Response: 218133004

Conc: 309.62 ng/ml m

Report of Analysis

Client:	ENTACT	Date Collected:	04/30/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	05/01/25
Client Sample ID:	WC-A1-03-C	SDG No.:	Q1929
Lab Sample ID:	Q1929-07	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
PS030054.D	1	05/05/25 08:50	05/06/25 12:09	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	489		70 (39) - 130 (175)	98%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 12:09
Operator : AR\AJ
Sample : Q1929-07
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-A1-03-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 13:11:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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	6.941	7.457	1202.2E6	248.3E6	488.500	352.370 #

Target Compounds

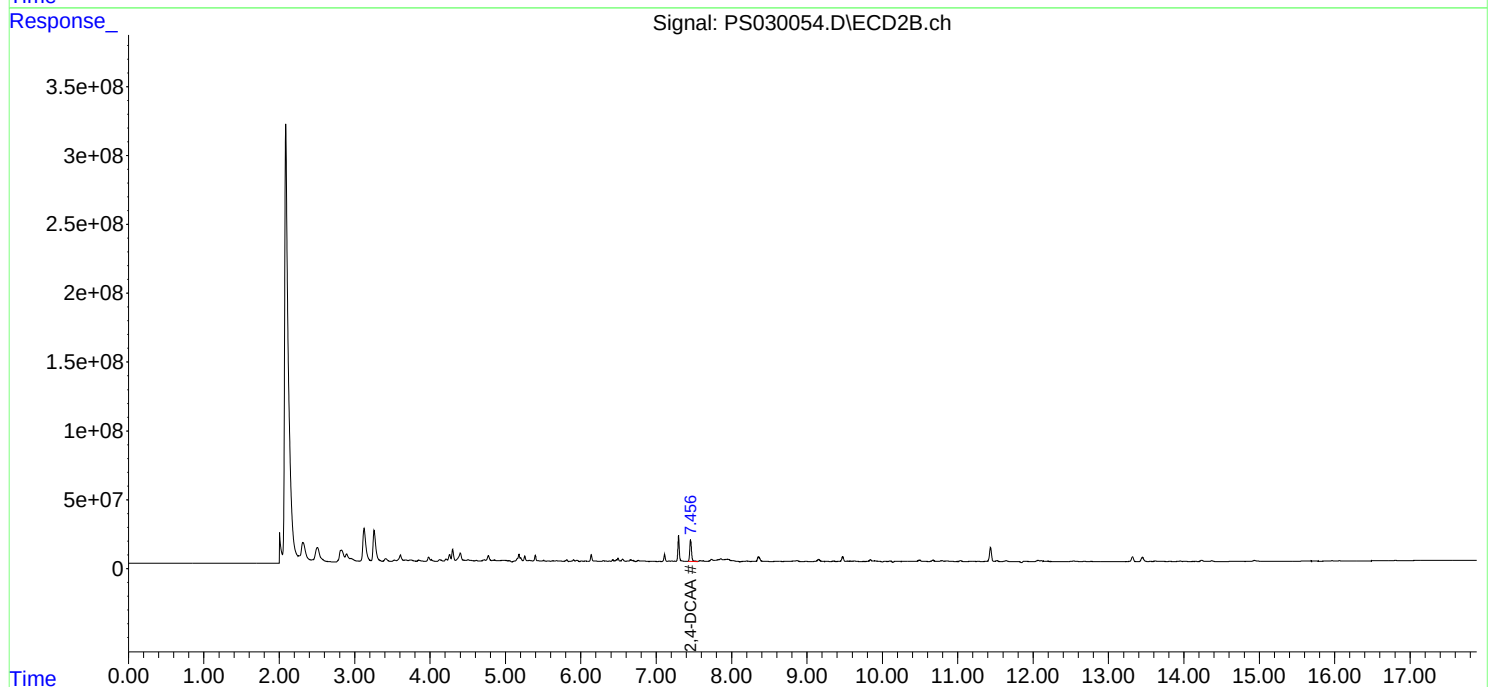
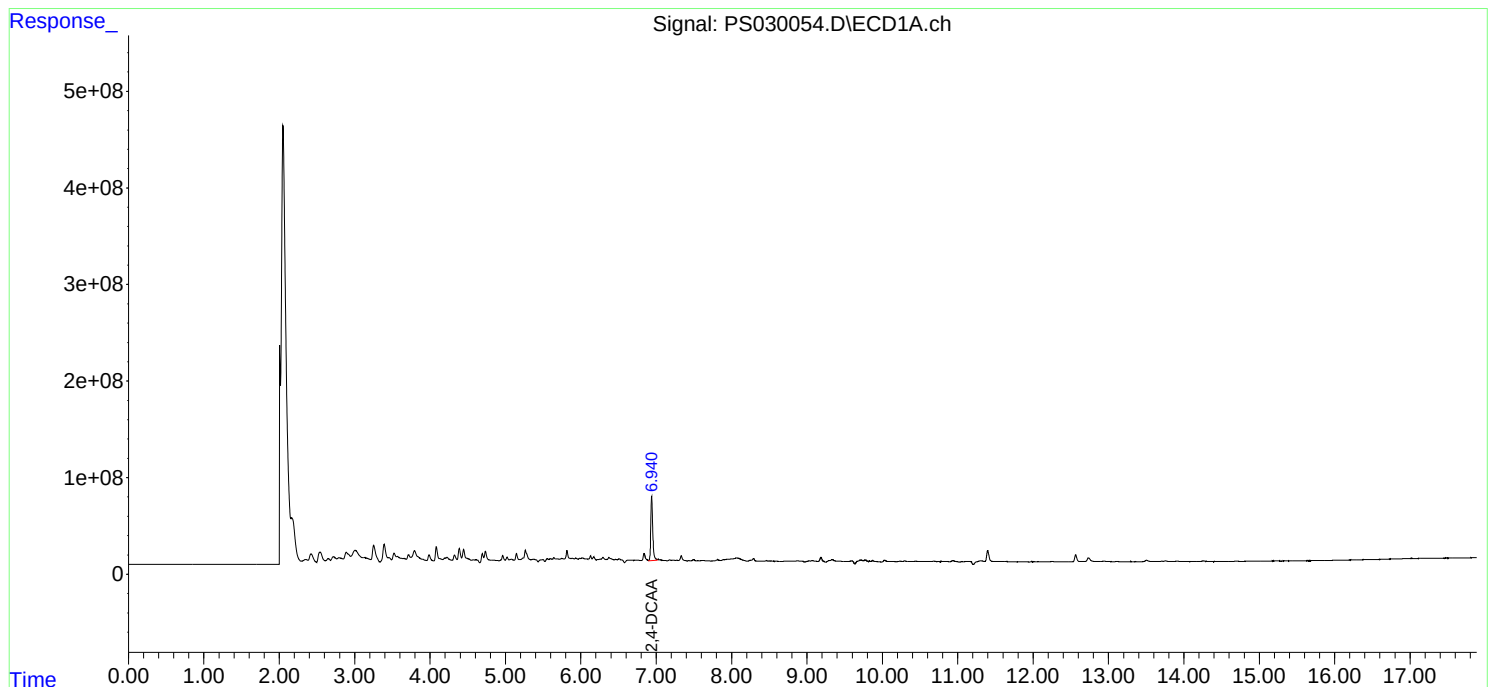
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

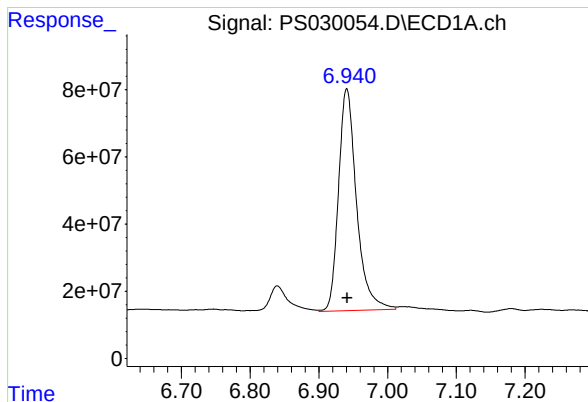
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 12:09
Operator : AR\AJ
Sample : Q1929-07
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-A1-03-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 13:11:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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.: 6.941 min

Delta R.T.: 0.000 min

Response: 1202236714

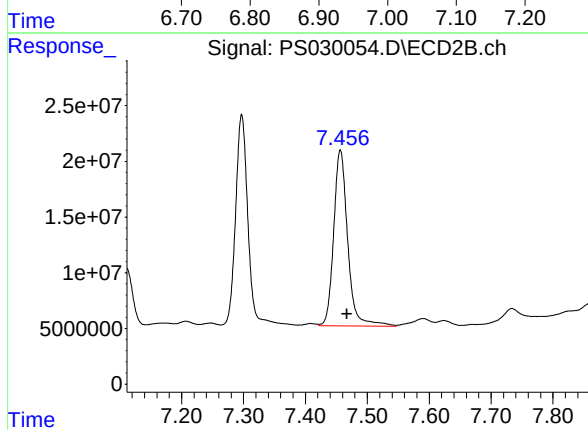
Conc: 488.50 ng/ml

Instrument :

ECD_S

ClientSampleId :

WC-A1-03-C



#4 2,4-DCAA

R.T.: 7.457 min

Delta R.T.: -0.011 min

Response: 248250519

Conc: 352.37 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	04/30/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	05/01/25
Client Sample ID:	WC-A1-04-C	SDG No.:	Q1929
Lab Sample ID:	Q1929-11	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
PS030055.D	1	05/05/25 08:50	05/06/25 12:33	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	391		70 (39) - 130 (175)	78%	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\PS050625\
 Data File : PS030055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 12:33
 Operator : AR\AJ
 Sample : Q1929-11
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-A1-04-C

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 06 13:12:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.940	7.460	962.2E6	207.0E6	390.982	293.780
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Target Compounds

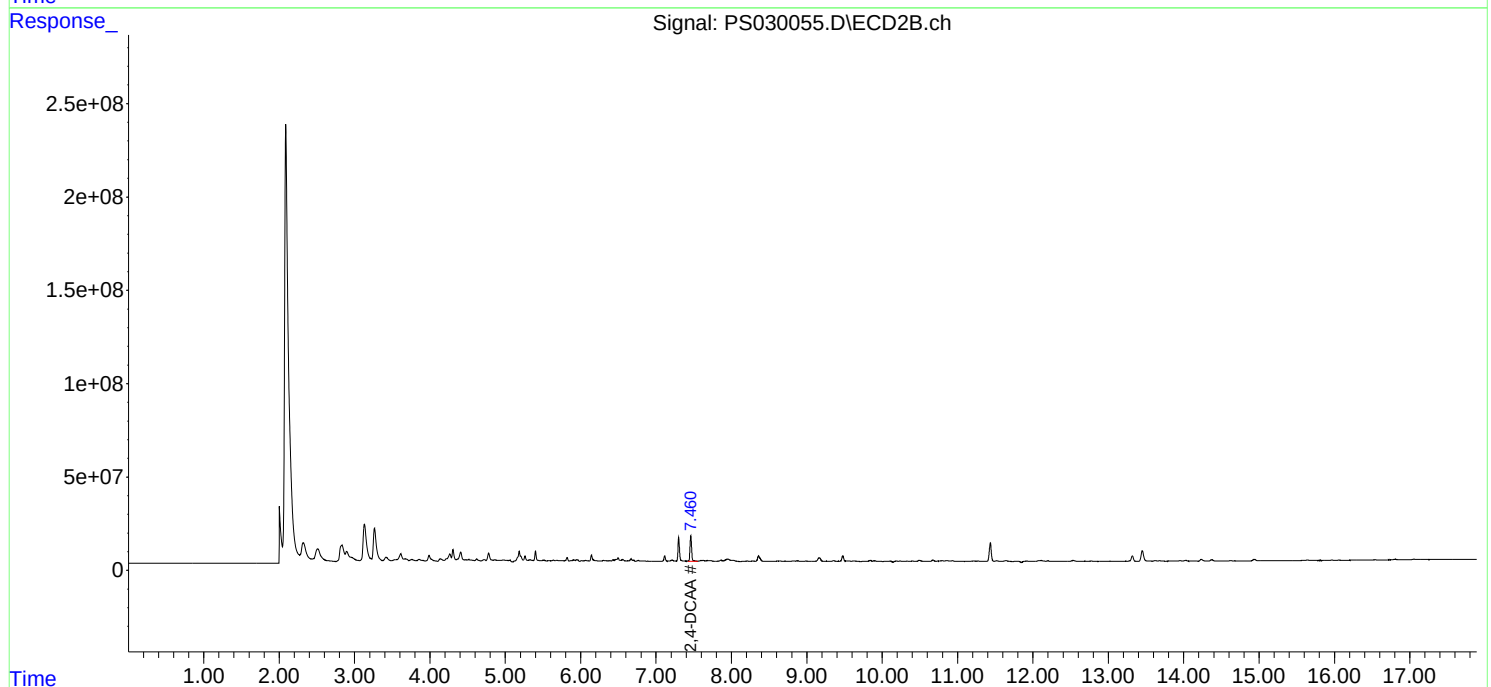
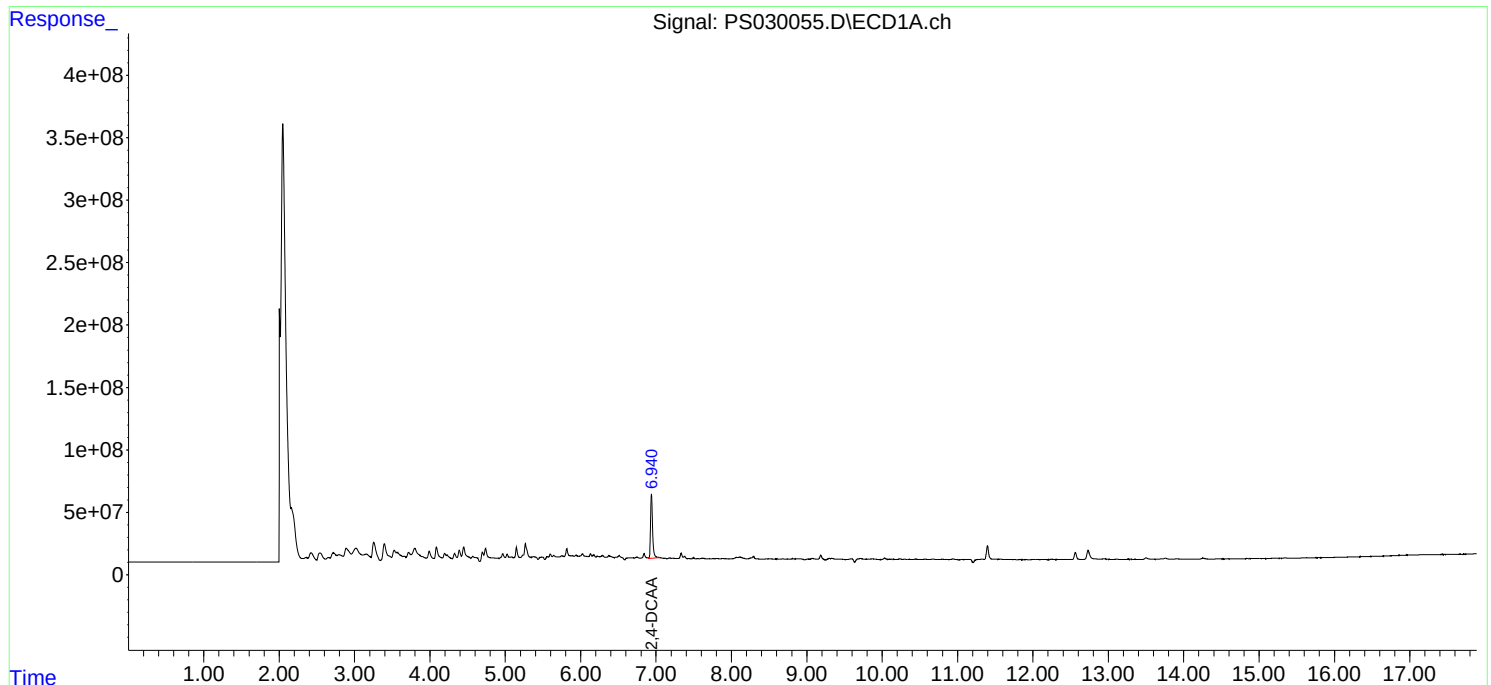
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

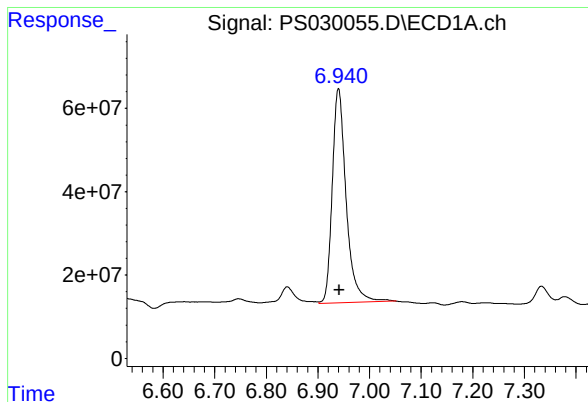
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030055.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 12:33
Operator : AR\AJ
Sample : Q1929-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-A1-04-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 13:12:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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.: 6.940 min

Delta R.T.: -0.001 min

Response: 962237110

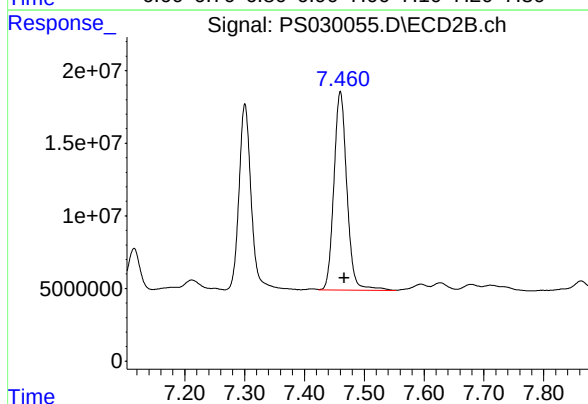
Conc: 390.98 ng/ml

Instrument :

ECD_S

ClientSampleId :

WC-A1-04-C



#4 2,4-DCAA

R.T.: 7.460 min

Delta R.T.: -0.007 min

Response: 206973020

Conc: 293.78 ng/ml



CALIBRATION SUMMARY

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

[illegible]

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

[illegible]



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.:** Q1929 **SAS No.:** Q1929 **SDG NO.:** Q1929
Instrument ID: ECD_S **Calibration Date(s):** 04/23/2025 04/23/2025
Calibration Times: 11:01 12:37

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

LAB FILE ID:		CF 200 = <u>PS029919.D</u>		CF 500 = <u>PS029920.D</u>			
CF 750 = <u>PS029921.D</u>		CF 1000 = <u>PS029922.D</u>		CF 1500 = <u>PS029923.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	16213200000	13862200000	13431300000	12910500000	12897000000	13862800000	10
2,4-D	3379530000	2797950000	2695740000	2590800000	2600340000	2812870000	12
2,4-DCAA	3038250000	2463560000	2343090000	2233670000	2226830000	2461080000	14



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.:** Q1929 **SAS No.:** Q1929 **SDG NO.:** Q1929
Instrument ID: ECD_S **Calibration Date(s):** 04/23/2025 04/23/2025
Calibration Times: 11:01 12:37

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

LAB FILE ID:		CF 200 = <u>PS029919.D</u>	CF 500 = <u>PS029920.D</u>				
CF 750 = <u>PS029921.D</u>		CF 1000 = <u>PS029922.D</u>	CF 1500 = <u>PS029923.D</u>				
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	8841790000	8081200000	8077540000	7871670000	8036560000	8181750000	5
2,4-D	1299090000	1113240000	1091000000	1054800000	1077400000	1127110000	9
2,4-DCAA	807639000	692361000	682858000	661991000	677736000	704517000	8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
 Data File : PS029919.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Apr 2025 11:01
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 04/24/2025

Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 23 12:21:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:13:04 2025
 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	6.942	7.467	607.6E6	161.5E6	232.374	221.995
Target Compounds							
1) T	Dalapon	2.449	2.525	844.5E6	380.3E6	193.384m	208.714
2) T	3,5-DICHL...	6.146	6.463	802.7E6	206.9E6	212.813	205.094
3) T	4-Nitroph...	6.733	7.001	383.7E6	162.2E6	206.288	204.354
5) T	DICAMBA	7.118	7.653	2150.4E6	774.6E6	208.534	196.353
6) T	MCPD	7.295	7.758	112.8E6	31299306	18.132	18.050
7) T	MCPA	7.437	7.988	169.4E6	48918025	19.260	20.374
8) T	DICHLORPROP	7.799	8.348	584.1E6	218.7E6	217.778	210.088
9) T	2,4-D	8.021	8.661	635.4E6	244.2E6	214.810	209.141
10) T	Pentachlo...	8.298	9.163	7828.1E6	4208.5E6	211.528	201.368
11) T	2,4,5-TP ...	8.862	9.542	3080.5E6	1679.9E6	212.416	201.589
12) T	2,4,5-T	9.145	9.947	3136.0E6	1619.8E6	213.126	204.001
13) T	2,4-DB	9.704	10.507	483.4E6	167.7E6	206.590	206.030
14) T	DINOSEB	10.866	10.881	2266.8E6	1229.2E6	211.888	204.977
15) T	Picloram	10.686	11.918	3927.9E6	2710.5E6	208.185	221.777m
16) T	DCPA	11.167	11.918	3823.9E6	2388.5E6	214.204	203.950m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
Data File : PS029919.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Apr 2025 11:01
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

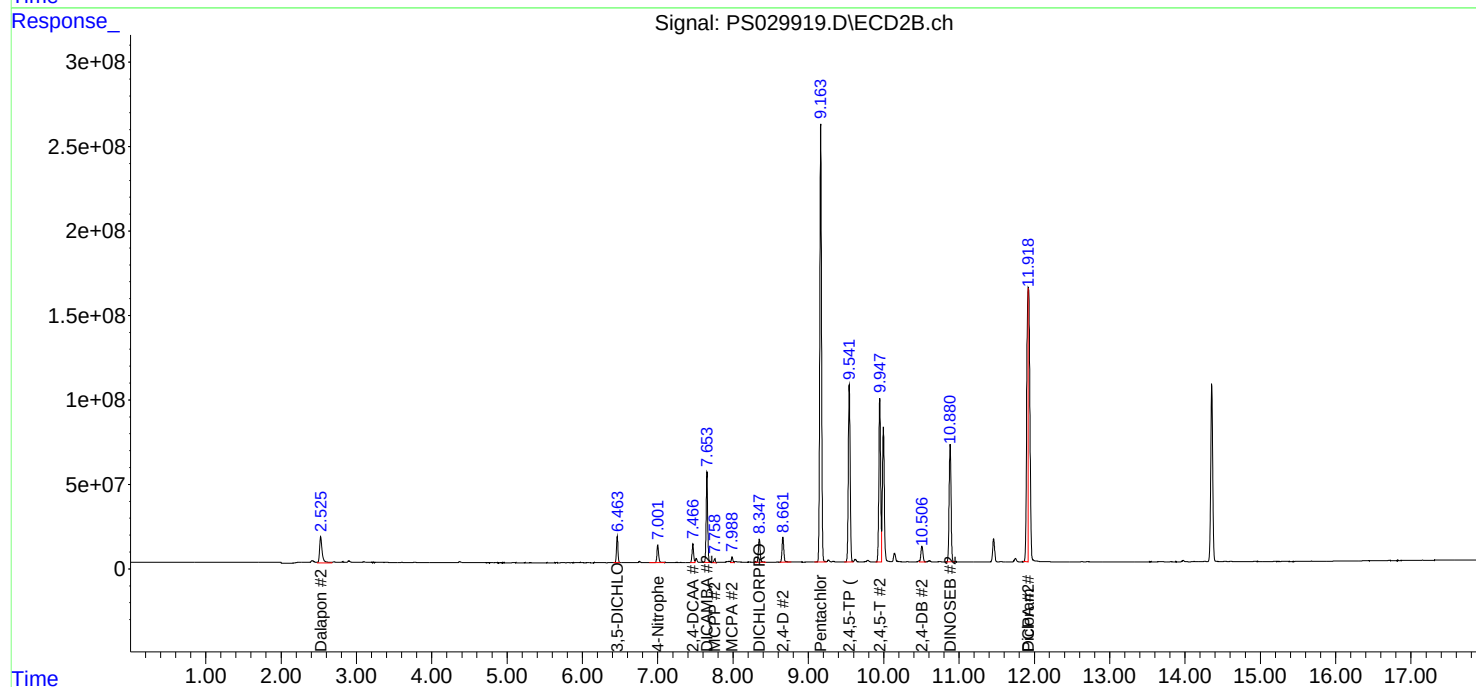
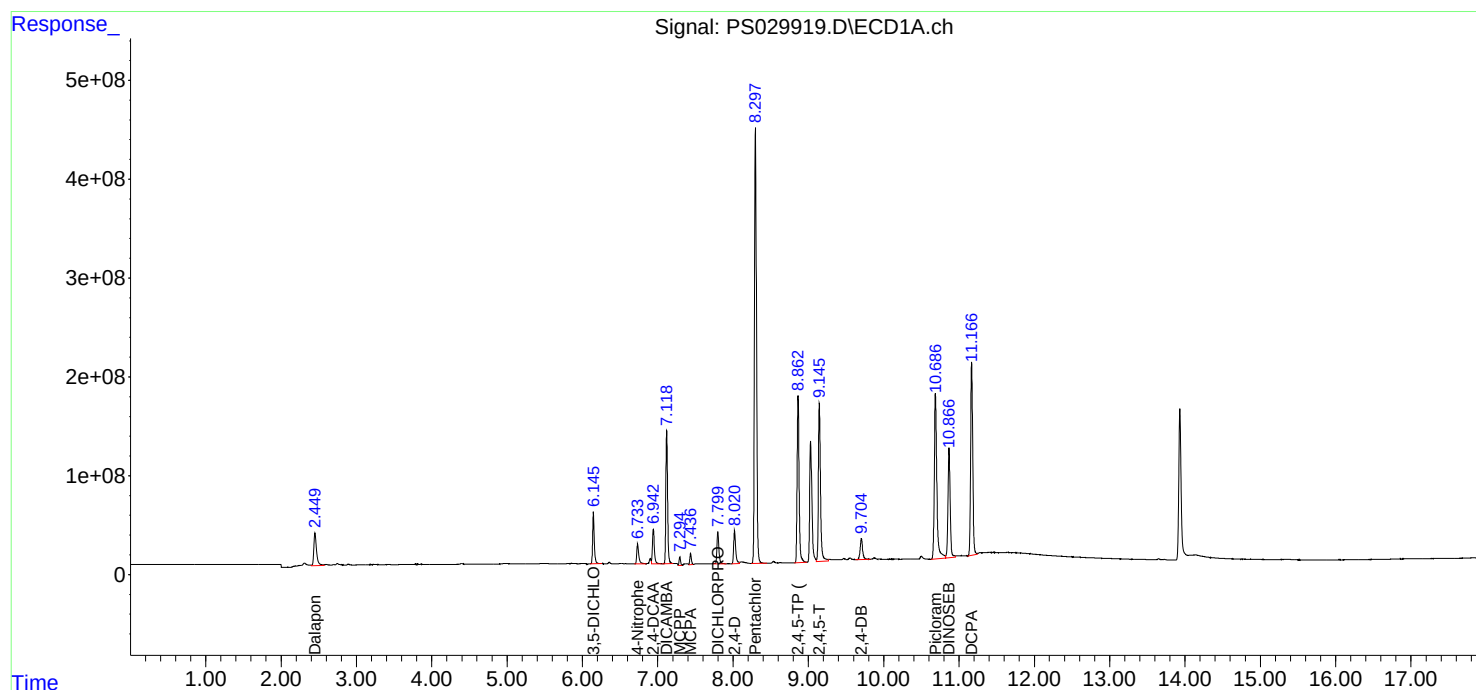
APPROVED

Reviewed By :Abdul Mirza 04/24/2025

Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 23 12:21:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:13:04 2025
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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
 Data File : PS029920.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Apr 2025 11:25
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 04/24/2025

Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 23 12:18:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:13:04 2025
 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	6.942	7.467	1231.8E6	346.2E6	512.532	503.455
Target Compounds							
1) T	Dalapon	2.449	2.525	1929.5E6	780.3E6	468.186	462.137
2) T	3,5-DICHL...	6.146	6.463	1662.7E6	449.2E6	475.061	469.317
3) T	4-Nitroph...	6.733	7.001	802.3E6	342.6E6	462.200	459.862
5) T	DICAMBA	7.118	7.653	4642.9E6	1792.4E6	476.252	464.683
6) T	MCPD	7.296	7.759	290.7E6	82241844	45.918	46.500
7) T	MCPA	7.438	7.990	399.1E6	105.5E6	46.188	46.156
8) T	DICHLORPROP	7.799	8.347	1186.8E6	464.3E6	480.564	473.759
9) T	2,4-D	8.020	8.661	1315.0E6	523.2E6	478.744	474.742
10) T	Pentachlo...	8.297	9.164	16887.6E6	9661.5E6	483.734	476.543
11) T	2,4,5-TP ...	8.862	9.542	6584.5E6	3838.6E6	482.498	475.108
12) T	2,4,5-T	9.145	9.948	6674.4E6	3641.9E6	482.992	476.224
13) T	2,4-DB	9.703	10.507	1071.1E6	362.7E6	478.618	465.162
14) T	DINOSEB	10.866	10.881	4764.3E6	2699.3E6	475.549	471.423
15) T	Picloram	10.685	11.923	8585.2E6	5454.2E6	477.895	452.164m
16) T	DCPA	11.167	11.919	8208.3E6	5573.5E6	488.029	495.898m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
Data File : PS029920.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Apr 2025 11:25
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

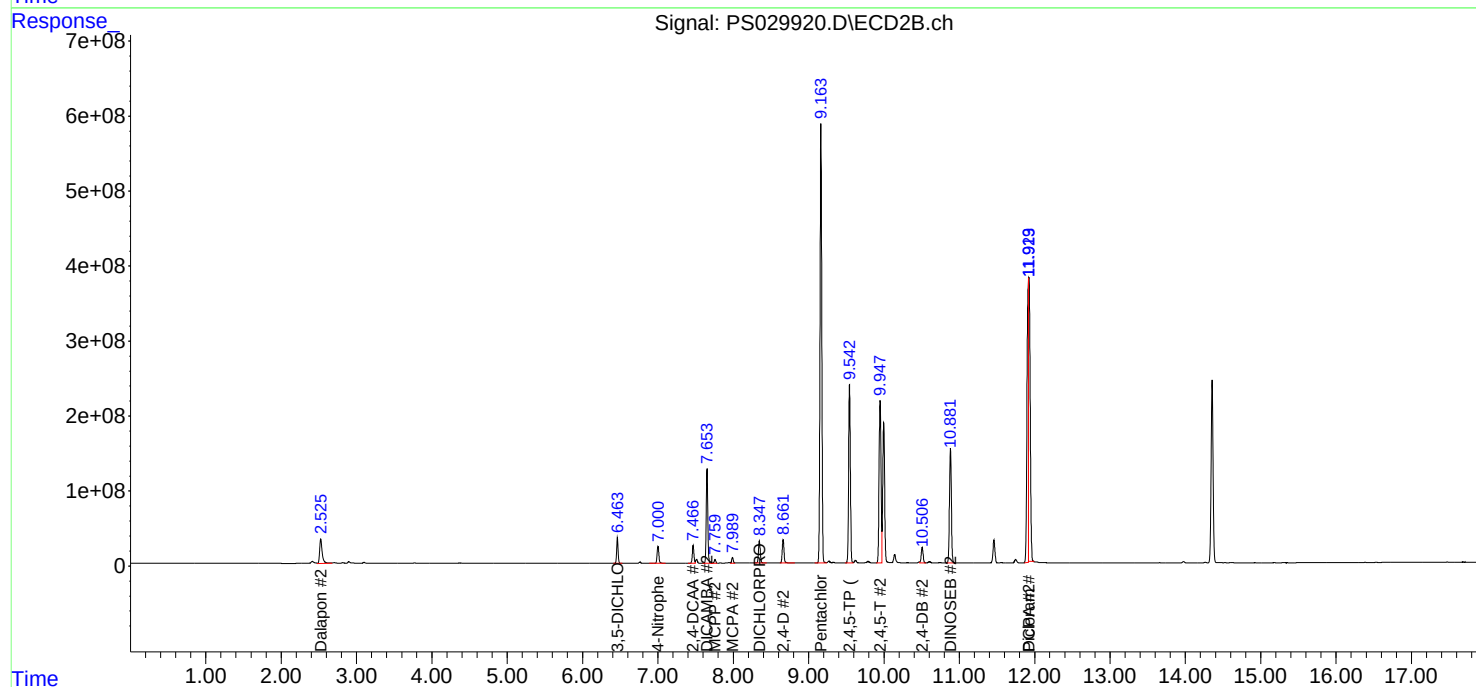
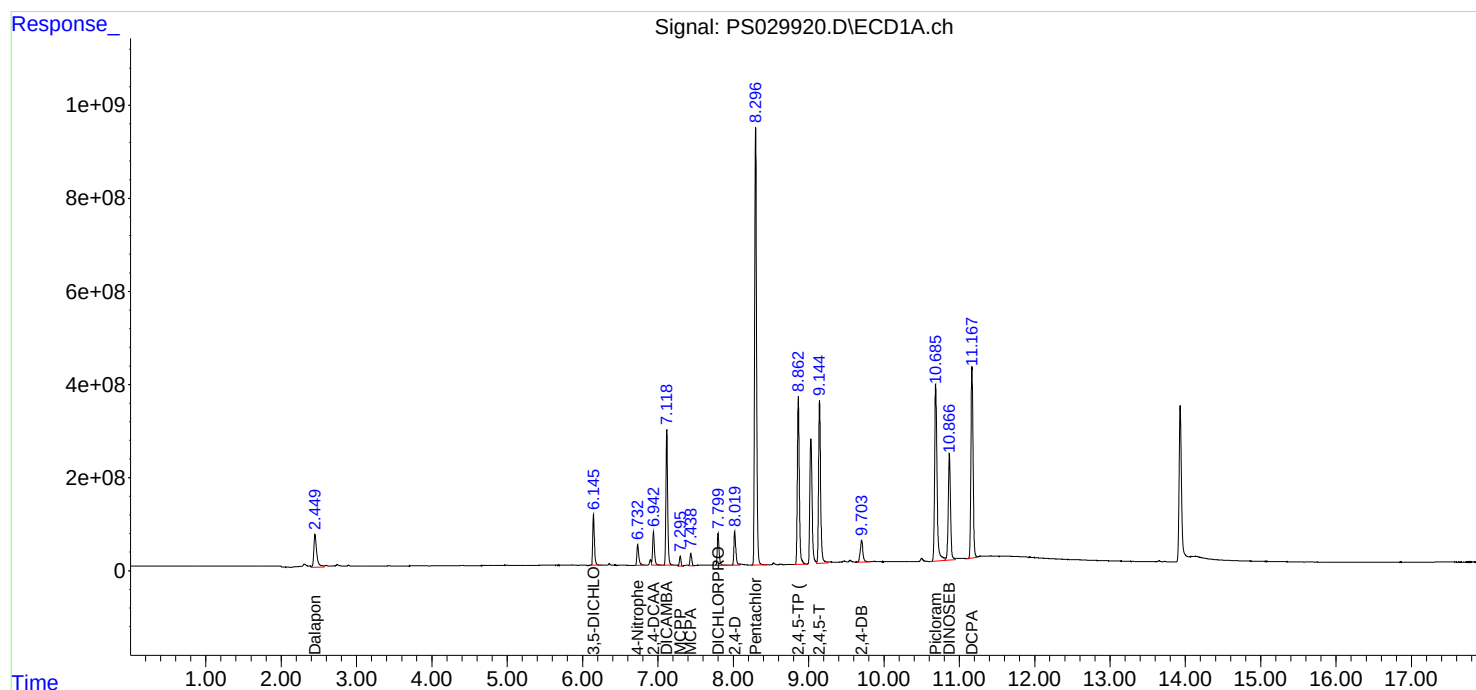
APPROVED

Reviewed By :Abdul Mirza 04/24/2025

Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 23 12:18:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:13:04 2025
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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
 Data File : PS029921.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Apr 2025 11:49
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 04/24/2025

Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 23 12:13:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:13:04 2025
 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	6.942	7.467	1757.3E6	512.1E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.449	2.525	2731.3E6	1134.3E6	682.500	682.500
2) T	3,5-DICHL...	6.146	6.463	2388.4E6	661.4E6	697.500	697.500
3) T	4-Nitroph...	6.732	7.001	1166.0E6	503.1E6	682.500	682.500
5) T	DICAMBA	7.118	7.653	6781.5E6	2750.1E6	705.000	705.000
6) T	MCP	7.297	7.761	456.6E6	126.0E6	70.500	70.500
7) T	MCPA	7.440	7.991	606.7E6	160.7E6	69.750	69.750
8) T	DICHLORPROP	7.799	8.348	1701.9E6	685.3E6	705.000	705.000
9) T	2,4-D	8.019	8.661	1900.5E6	769.2E6	705.000	705.000
10) T	Pentachlo...	8.297	9.163	24416.7E6	14398.4E6	712.500	712.500
11) T	2,4,5-TP ...	8.862	9.542	9569.8E6	5755.2E6	712.500	712.500
12) T	2,4,5-T	9.144	9.947	9680.3E6	5434.8E6	712.500	712.500
13) T	2,4-DB	9.703	10.507	1582.3E6	567.0E6	712.500	712.500
14) T	DINOSEB	10.866	10.881	6979.6E6	4024.5E6	705.000	705.000
15) T	Picloram	10.685	11.920	12721.8E6	8674.9E6	712.500	724.031m
16) T	DCPA	11.166	11.918	11907.4E6	8089.3E6	720.000	728.090m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
Data File : PS029921.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Apr 2025 11:49
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC750

Manual Integrations

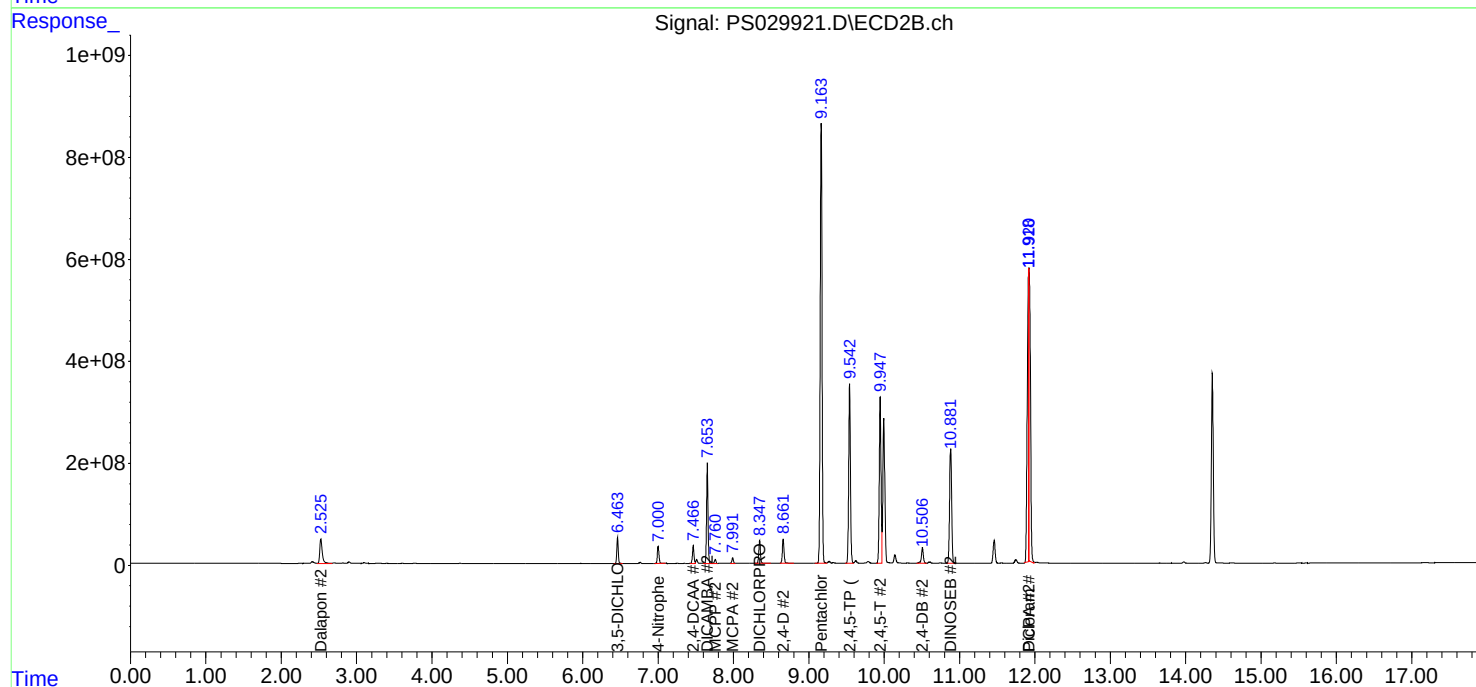
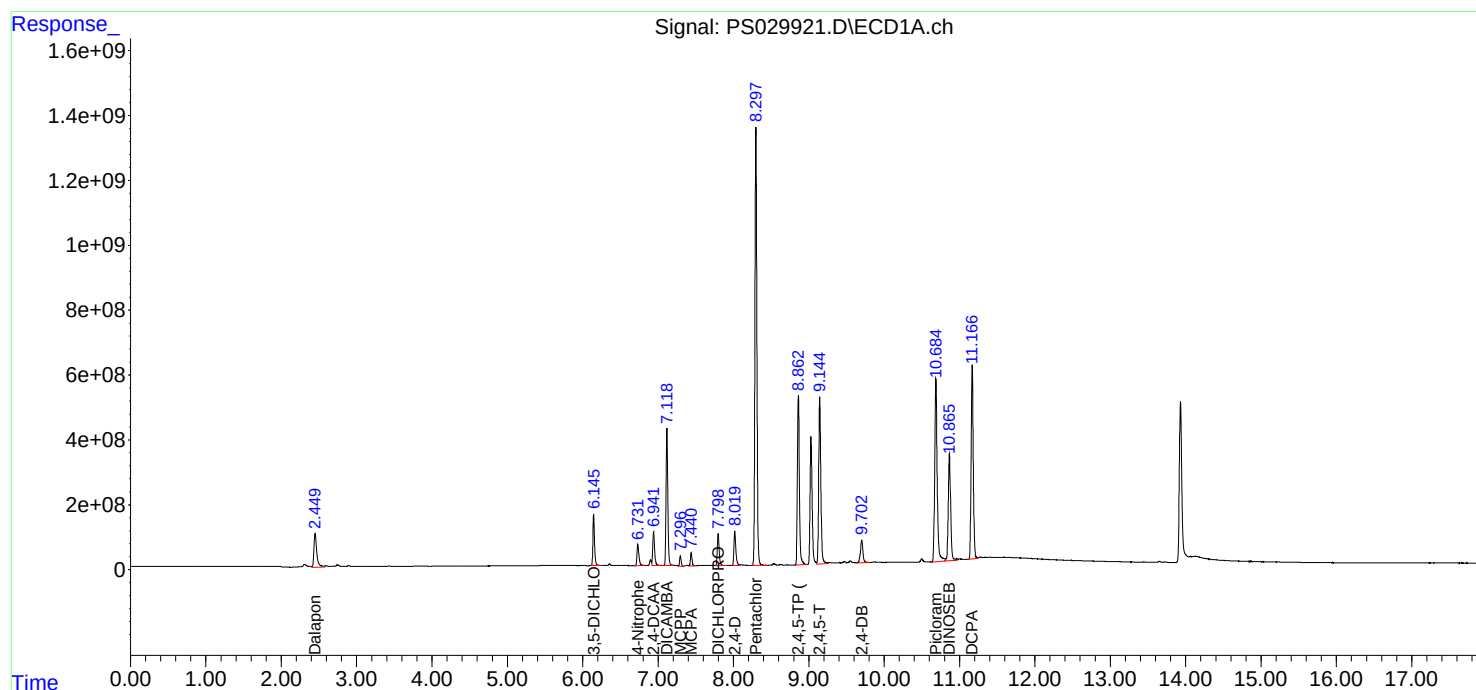
APPROVED

Reviewed By :Abdul Mirza 04/24/2025

Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 23 12:13:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:13:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 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\PS042325\
 Data File : PS029922.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Apr 2025 12:13
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC1000

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 04/24/2025

Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 23 12:41:26 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:41:18 2025
 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	6.941	7.466	2233.7E6	662.0E6	886.503	930.792
Target Compounds						
1) T Dalapon	2.448	2.524	3459.2E6	1450.3E6	829.350	821.672
2) T 3,5-DICHL...	6.145	6.463	3047.9E6	855.5E6	835.452	867.026
3) T 4-Nitroph...	6.731	7.000	1500.3E6	650.1E6	830.199	840.006
5) T DICAMBA	7.118	7.652	8709.4E6	3622.0E6	866.580	923.531
6) T MCPP	7.297	7.761	613.1E6	163.4E6	97.394	94.159
7) T MCPA	7.440	7.992	802.4E6	212.9E6	91.664	89.703
8) T DICHLORPROP	7.798	8.347	2167.0E6	881.3E6	837.398	868.054
9) T 2,4-D	8.018	8.661	2435.4E6	991.5E6	849.738	870.102
10) T Pentachlo...	8.297	9.163	31038.8E6	18517.9E6	864.019	901.215
11) T 2,4,5-TP ...	8.862	9.542	12264.9E6	7478.1E6	869.588	909.959
12) T 2,4,5-T	9.144	9.947	12428.5E6	7054.1E6	868.738	903.059
13) T 2,4-DB	9.702	10.506	2059.3E6	737.5E6	896.524	916.649
14) T DINOSEB	10.866	10.881	8807.7E6	5194.8E6	849.671	883.604
15) T Picloram	10.685	11.920	16510.1E6	11094.8E6	892.660	889.281m
16) T DCPA	11.166	11.918	15201.9E6	10311.4E6	876.317	906.507m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
Data File : PS029922.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Apr 2025 12:13
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

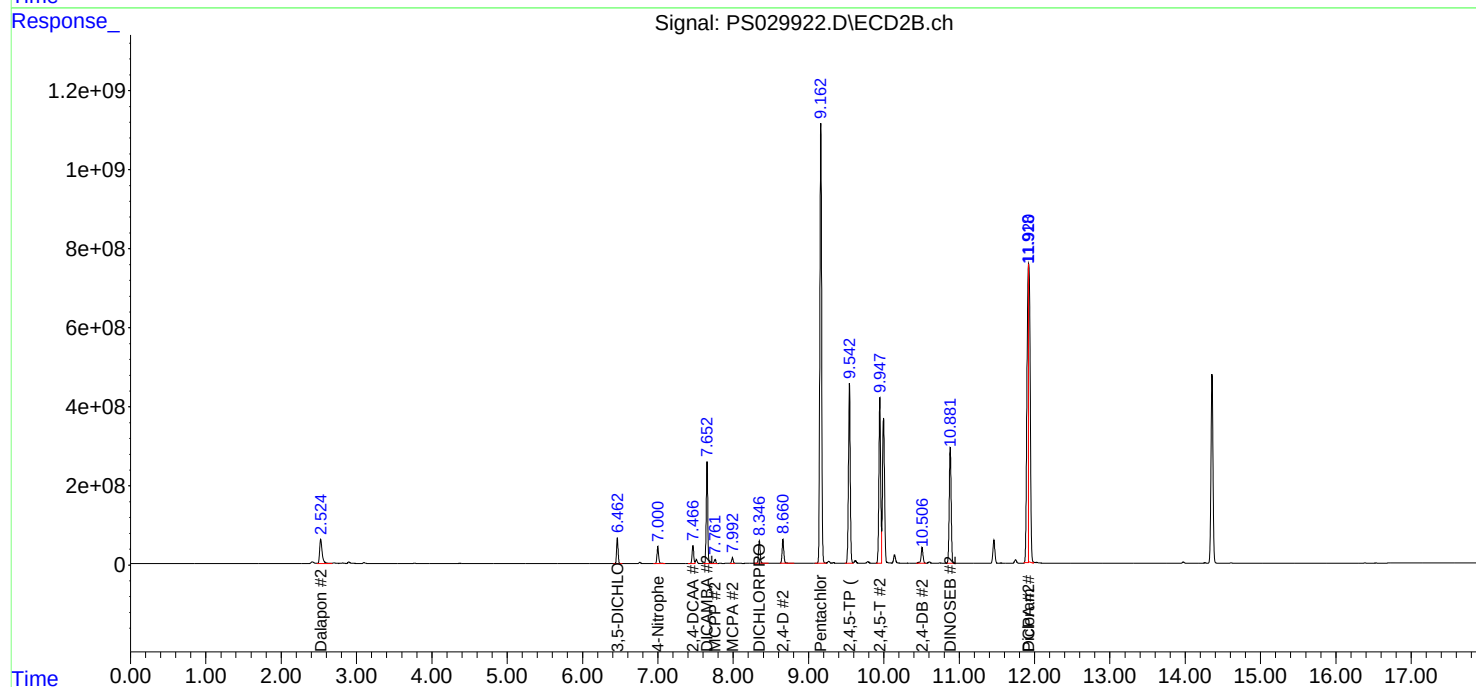
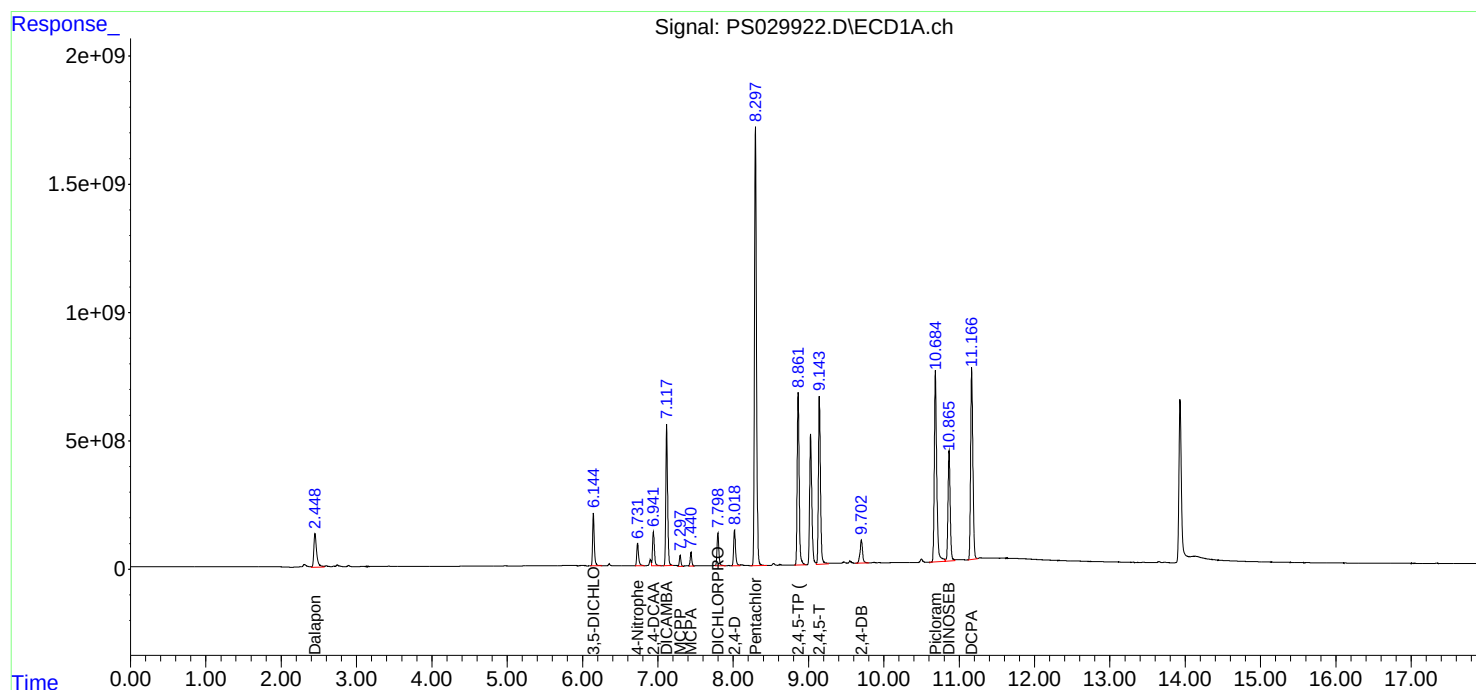
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/24/2025
Supervised By : mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 23 12:41:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:41:18 2025
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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
 Data File : PS029923.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Apr 2025 12:37
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 04/24/2025
 Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 23 12:55:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:55:41 2025
 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	6.941	7.467	3340.2E6	1016.6E6	1357.229	1442.979
Target Compounds						
1) T Dalapon	2.448	2.524	5176.7E6	2212.1E6	1264.064	1274.156
2) T 3,5-DICHL...	6.145	6.463	4570.5E6	1313.0E6	1278.892	1343.156
3) T 4-Nitroph...	6.731	7.001	2304.0E6	1001.5E6	1291.971	1307.566
5) T DICAMBA	7.118	7.654	13131.1E6	5728.1E6	1325.990	1450.134
6) T MCPP	7.300	7.765	992.1E6	254.5E6	153.962	145.490
7) T MCPA	7.444	7.996	1275.2E6	326.1E6	144.397	137.819
8) T DICHLORPROP	7.799	8.348	3270.4E6	1352.2E6	1290.535	1346.848
9) T 2,4-D	8.019	8.661	3666.5E6	1519.1E6	1303.464	1347.820
10) T Pentachlo...	8.300	9.164	43790.4E6	27835.1E6	1255.279	1368.166
11) T 2,4,5-TP ...	8.862	9.543	18378.2E6	11452.1E6	1325.717	1399.712
12) T 2,4,5-T	9.144	9.947	18581.8E6	10783.8E6	1322.259	1389.199
13) T 2,4-DB	9.702	10.507	3190.6E6	1148.5E6	1396.120	1426.978
14) T DINOSEB	10.866	10.881	13258.0E6	7950.4E6	1303.197	1363.473
15) T Picloram	10.684	11.923	25181.9E6	16837.9E6	1373.763	1364.679m
16) T DCPA	11.166	11.918	22629.5E6	14875.5E6	1329.504	1311.664m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
Data File : PS029923.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Apr 2025 12:37
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

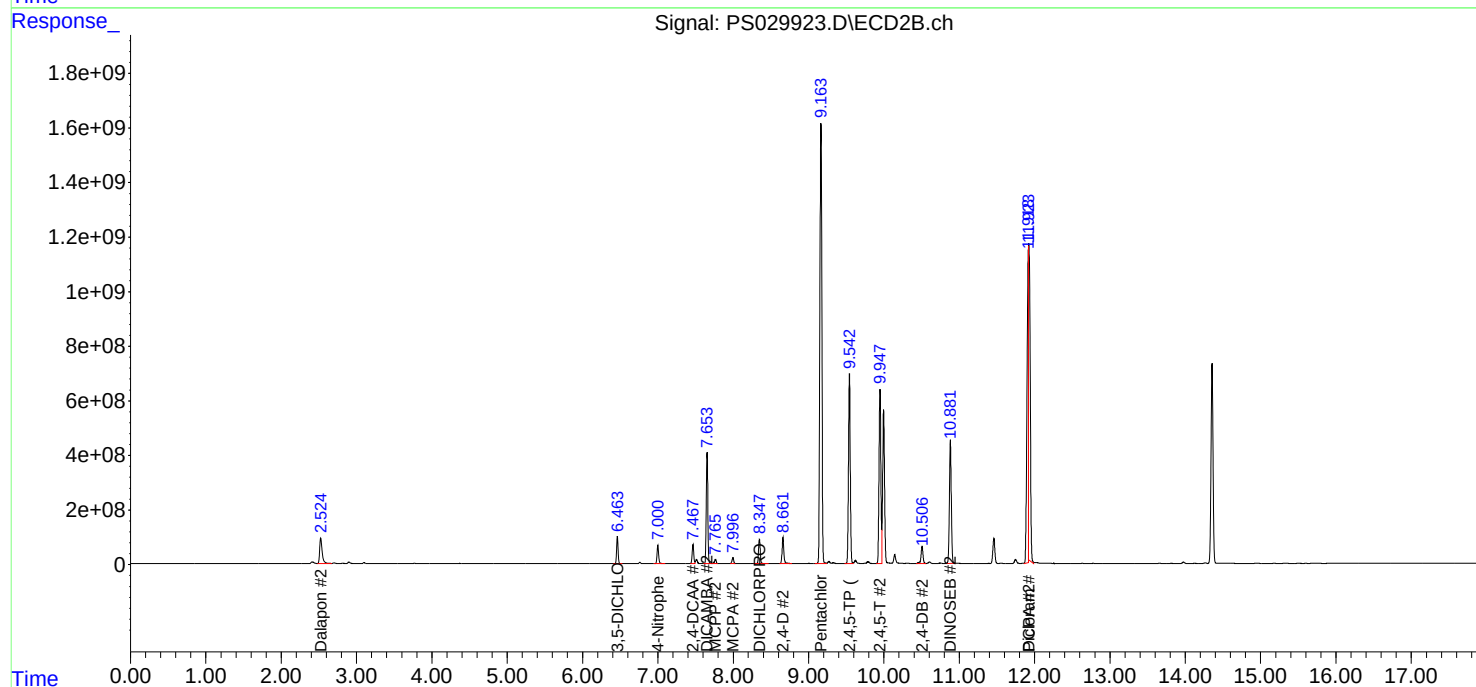
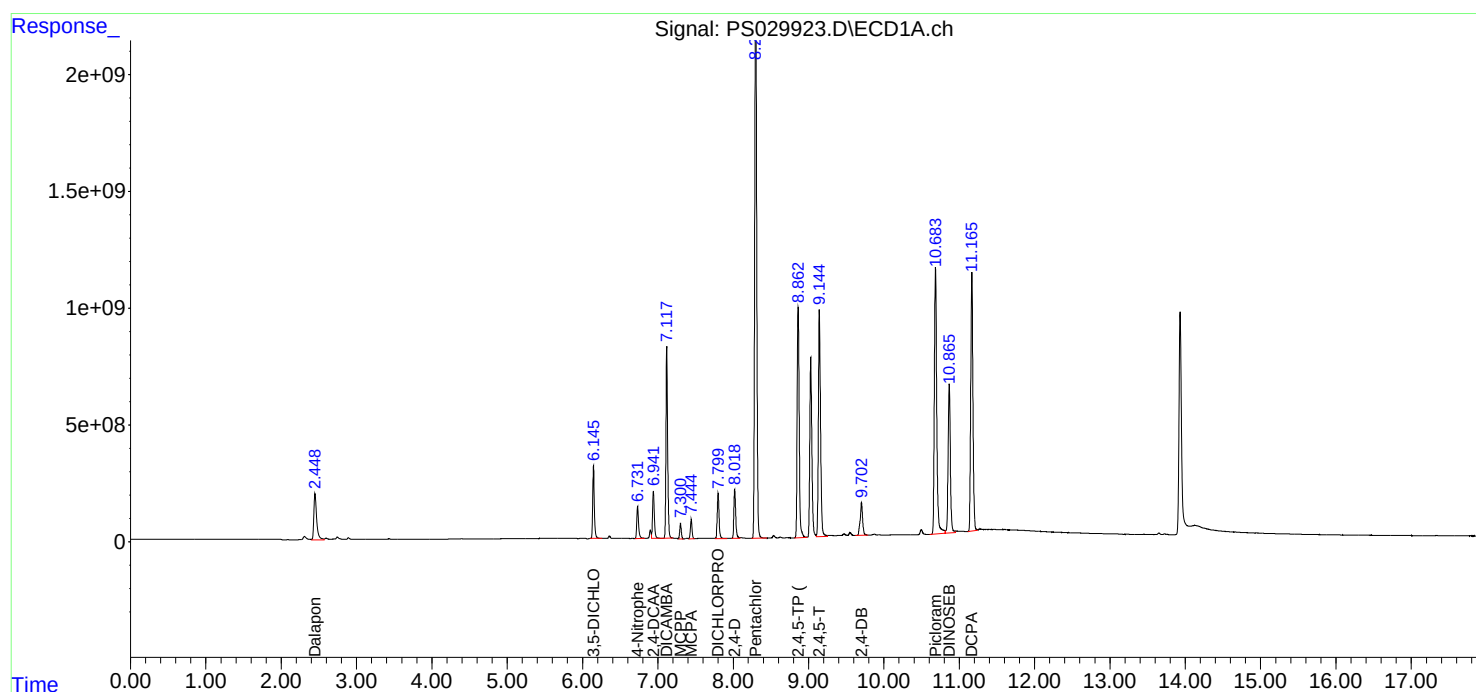
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/24/2025
Supervised By : mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 23 12:55:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:55:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
 Data File : PS029924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 Apr 2025 13:01
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

ICVPS042325

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 04/24/2025

Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 23 13:20:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.941	7.467	1785.1E6	522.8E6	725.315	742.096
Target Compounds							
1) T	Dalapon	2.449	2.525	2793.7E6	1167.7E6	682.183	672.600
2) T	3,5-DICHL...	6.145	6.463	2447.4E6	679.4E6	684.816	695.005
3) T	4-Nitroph...	6.732	7.000	1167.8E6	514.6E6	654.846	671.850
5) T	DICAMBA	7.118	7.653	6990.7E6	2822.8E6	705.926	714.619
6) T	MCP	7.297	7.760	467.2E6	127.4E6	72.508	72.837
7) T	MCPA	7.439	7.991	617.1E6	165.5E6	69.876	69.959
8) T	DICHLORPROP	7.798	8.347	1751.5E6	702.7E6	691.189	699.969
9) T	2,4-D	8.018	8.661	1976.8E6	789.4E6	702.764	700.374
10) T	Pentachlo...	8.297	9.163	25231.5E6	14767.7E6	723.277	725.871
11) T	2,4,5-TP ...	8.862	9.542	9894.0E6	5913.4E6	713.706	722.753
12) T	2,4,5-T	9.144	9.947	9990.5E6	5588.6E6	710.908	719.944
13) T	2,4-DB	9.702	10.506	1649.4E6	582.7E6	721.719	724.013
14) T	DINOSEB	10.866	10.881	7070.7E6	4118.9E6	695.014	706.382
15) T	Picloram	10.685	11.923	13255.1E6	9024.0E6	723.112	734.636m
16) T	DCPA	11.167	11.918	12285.5E6	8142.3E6	721.785	722.370m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
Data File : PS029924.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Apr 2025 13:01
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

ICVPS042325

Manual Integrations

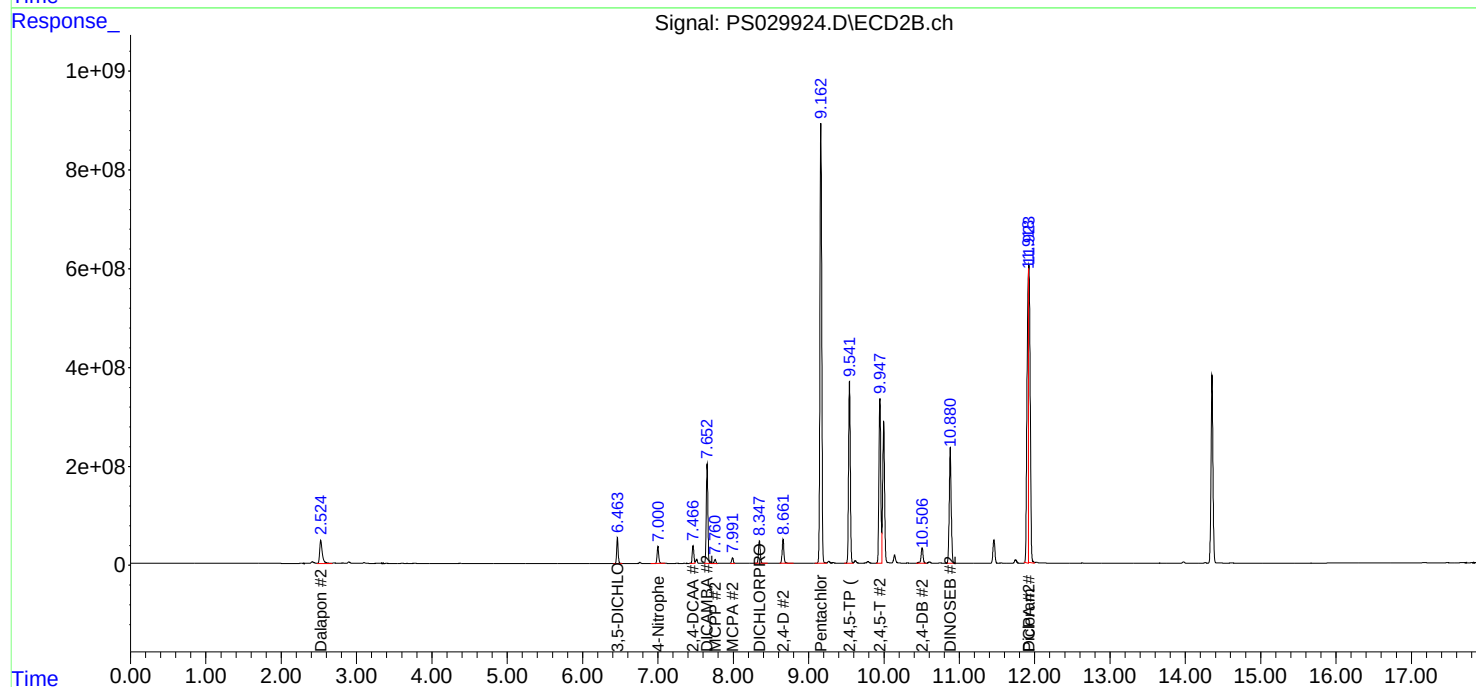
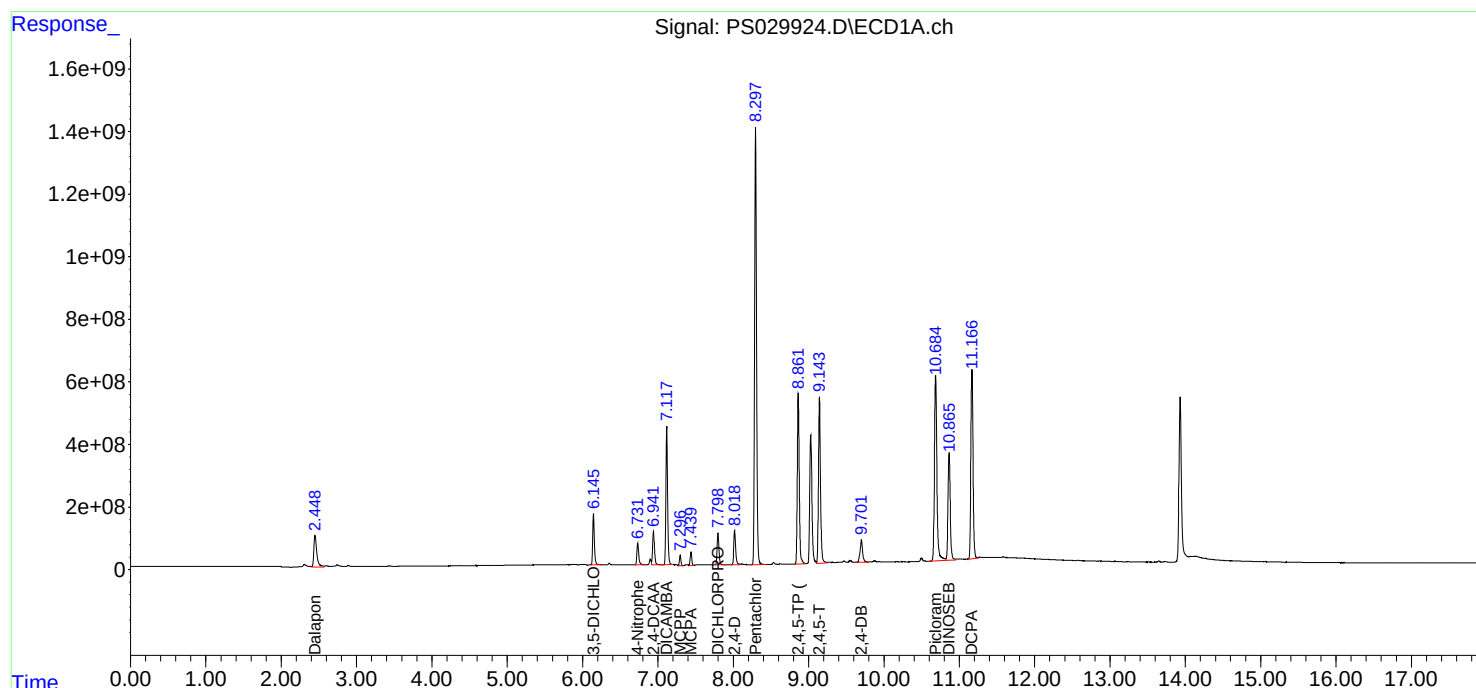
APPROVED

Reviewed By :Abdul Mirza 04/24/2025

Supervised By :mohammad ahmed 04/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 23 13:20:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

Continuing Calib Date: 05/06/2025 Initial Calibration Date(s): 04/23/2025 04/23/2025

Continuing Calib Time: 09:50 Initial Calibration Time(s): 11:01 12:37

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	6.94	6.94	6.84	7.04	0.00
2,4-D	8.02	8.02	7.92	8.12	0.00
2,4,5-TP(Silvex)	8.86	8.86	8.76	8.96	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.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

Continuing Calib Date: 05/06/2025 Initial Calibration Date(s): 04/23/2025 04/23/2025

Continuing Calib Time: 09:50 Initial Calibration Time(s): 11:01 12:37

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.46	7.47	7.37	7.57	0.01
2,4-D	8.65	8.66	8.56	8.76	0.01
2,4,5-TP(Silvex)	9.53	9.54	9.44	9.64	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.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 04/23/2025 04/23/2025

Client Sample No.: CCAL01 Date Analyzed: 05/06/2025

Lab Sample No.: HSTDCCC750 Data File : PS030052.D Time Analyzed: 09:50

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	8.857	8.762	8.962	695.180	712.500	-2.4
2,4-D	8.015	7.919	8.119	682.930	705.000	-3.1
2,4-DCAA	6.938	6.842	7.042	709.030	750.000	-5.5



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.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 04/23/2025 04/23/2025

Client Sample No.: CCAL01 Date Analyzed: 05/06/2025

Lab Sample No.: HSTDCCC750 Data File : PS030052.D Time Analyzed: 09:50

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.531	9.442	9.642	717.130	712.500	0.6
2,4-D	8.651	8.561	8.761	682.800	705.000	-3.1
2,4-DCAA	7.459	7.367	7.567	734.700	750.000	-2.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
 Data File : PS030052.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 09:50
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 06 13:26:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.938	7.459	1745.0E6	517.6E6	709.032	734.697
Target Compounds							
1) T	Dalapon	2.448	2.520	2771.0E6	1141.8E6	676.627	657.669
2) T	3,5-DICHL...	6.142	6.457	2356.5E6	654.3E6	659.397	669.260
3) T	4-Nitroph...	6.729	6.993	1154.1E6	496.8E6	647.176	648.693
5) T	DICAMBA	7.115	7.645	6737.1E6	2806.7E6	680.318	710.539
6) T	MCP	7.293	7.753	431.4E6	116.4E6	66.945	66.573
7) T	MCPA	7.436	7.983	585.6E6	164.8E6	66.310	69.657
8) T	DICHLORPROP	7.794	8.338	1673.4E6	691.3E6	660.364	688.615
9) T	2,4-D	8.015	8.651	1921.0E6	769.6E6	682.925	682.800
10) T	Pentachlo...	8.293	9.152	24212.0E6	14728.5E6	694.052	723.945
11) T	2,4,5-TP ...	8.857	9.531	9637.1E6	5867.4E6	695.176	717.135
12) T	2,4,5-T	9.139	9.935	9768.0E6	5468.9E6	695.079	704.521
13) T	2,4-DB	9.698	10.493	1579.0E6	535.4E6	690.907	665.240
14) T	DINOSEB	10.860	10.867	6883.8E6	4005.8E6	676.648	686.979
15) T	Picloram	10.679	11.904	12676.1E6	7539.8E6	691.524	613.805m
16) T	DCPA	11.161	11.901	12001.6E6	8871.3E6	705.107	787.047m

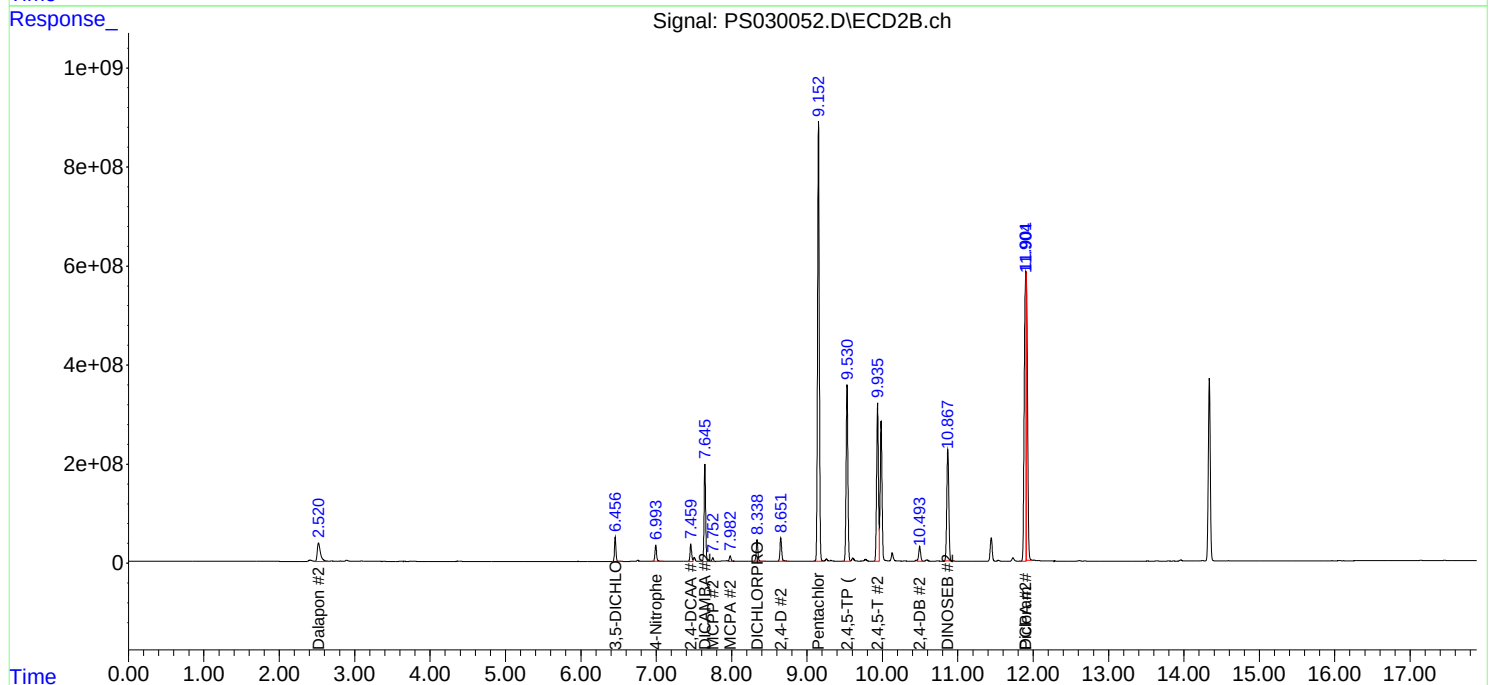
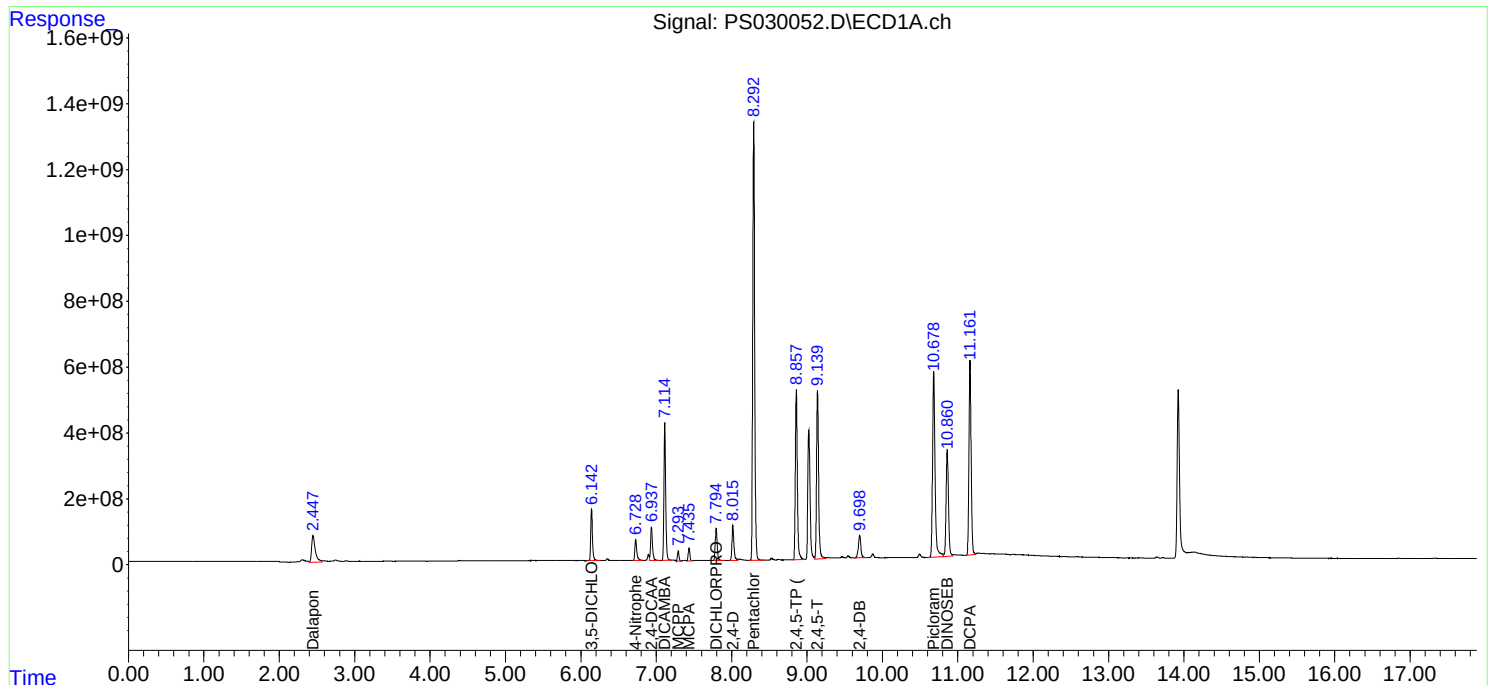
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 09:50
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 13:26:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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





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.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

Continuing Calib Date: 05/06/2025 Initial Calibration Date(s): 04/23/2025 04/23/2025

Continuing Calib Time: 14:15 Initial Calibration Time(s): 11:01 12:37

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	6.94	6.94	6.84	7.04	0.00
2,4-D	8.02	8.02	7.92	8.12	0.00
2,4,5-TP(Silvex)	8.86	8.86	8.76	8.96	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

Continuing Calib Date: 05/06/2025 Initial Calibration Date(s): 04/23/2025 04/23/2025

Continuing Calib Time: 14:15 Initial Calibration Time(s): 11:01 12:37

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.46	7.47	7.37	7.57	0.01
2,4-D	8.65	8.66	8.56	8.76	0.01
2,4,5-TP(Silvex)	9.53	9.54	9.44	9.64	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 04/23/2025 04/23/2025

Client Sample No.: CCAL02 Date Analyzed: 05/06/2025

Lab Sample No.: HSTDCCC750 Data File : PS030059.D Time Analyzed: 14:15

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	8.856	8.762	8.962	744.780	712.500	4.5
2,4-D	8.015	7.919	8.119	719.560	705.000	2.1
2,4-DCAA	6.938	6.842	7.042	763.780	750.000	1.8



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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 04/23/2025 04/23/2025

Client Sample No.: CCAL02 Date Analyzed: 05/06/2025

Lab Sample No.: HSTDCCC750 Data File : PS030059.D Time Analyzed: 14:15

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.532	9.442	9.642	772.440	712.500	8.4
2,4-D	8.652	8.561	8.761	732.170	705.000	3.9
2,4-DCAA	7.461	7.367	7.567	793.080	750.000	5.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
 Data File : PS030059.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 14:15
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 07 01:55:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.938	7.461	1879.7E6	558.7E6	763.785	793.078
Target Compounds							
1) T	Dalapon	2.448	2.522	2710.6E6	1164.7E6	661.884m	670.857m
2) T	3,5-DICHL...	6.143	6.459	2528.0E6	712.0E6	707.385	728.324
3) T	4-Nitroph...	6.729	6.995	1243.0E6	533.9E6	697.020	697.085
5) T	DICAMBA	7.114	7.646	7227.9E6	3028.0E6	729.878	766.568m
6) T	MCP	7.292	7.754	489.9E6	127.6E6	76.021m	72.952
7) T	MCPA	7.436	7.984	643.5E6	172.6E6	72.862	72.939
8) T	DICHLORPROP	7.794	8.340	1800.3E6	758.0E6	710.425	755.039m
9) T	2,4-D	8.015	8.652	2024.0E6	825.2E6	719.564	732.170m
10) T	Pentachlo...	8.292	9.153	25932.5E6	15893.5E6	743.370	781.208
11) T	2,4,5-TP ...	8.856	9.532	10324.7E6	6320.0E6	744.776	772.445
12) T	2,4,5-T	9.138	9.935	10134.3E6	5867.9E6	721.146m	755.923
13) T	2,4-DB	9.696	10.494	1683.8E6	605.4E6	736.796	752.142
14) T	DINOSEB	10.858	10.867	6893.7E6	4244.6E6	677.621m	727.945
15) T	Picloram	10.678	11.902	13045.3E6	8956.4E6	711.667	729.132m
16) T	DCPA	11.159	11.901	12876.9E6	8370.0E6	756.528	742.572m

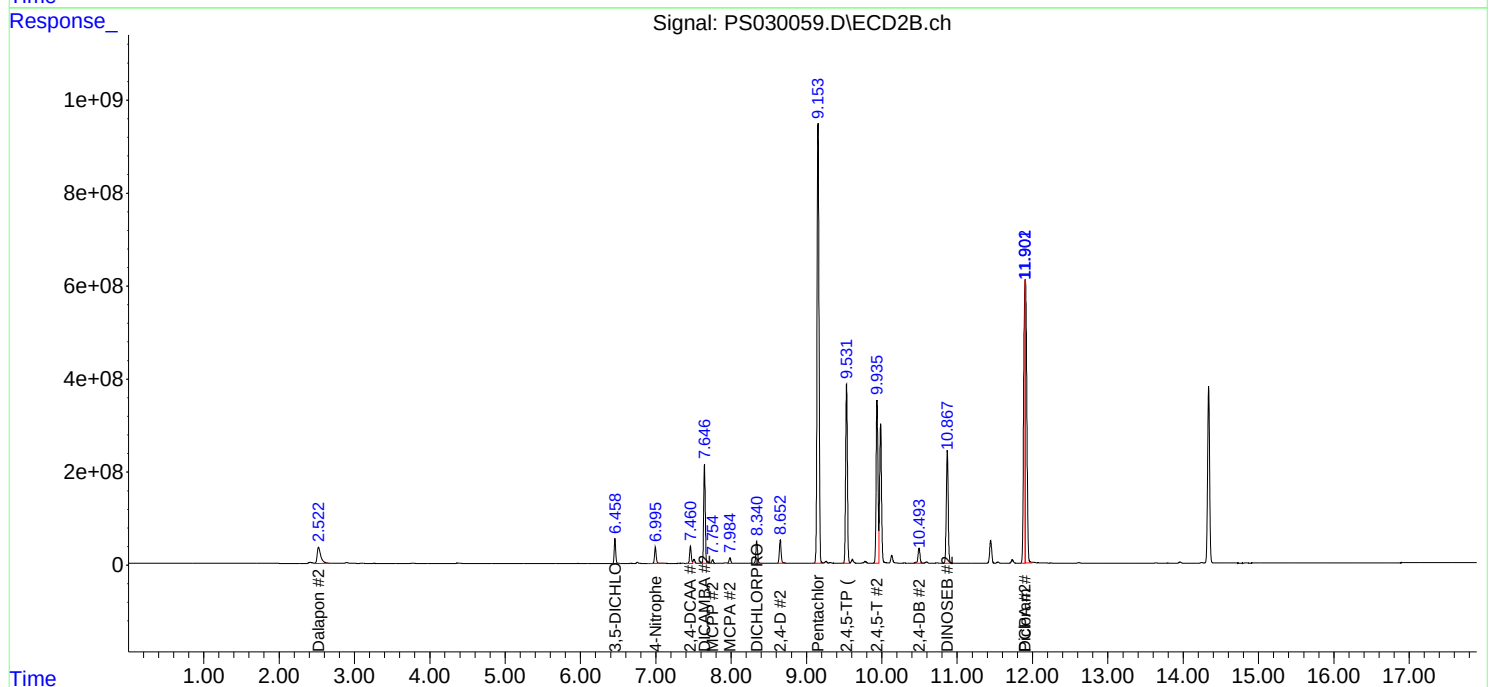
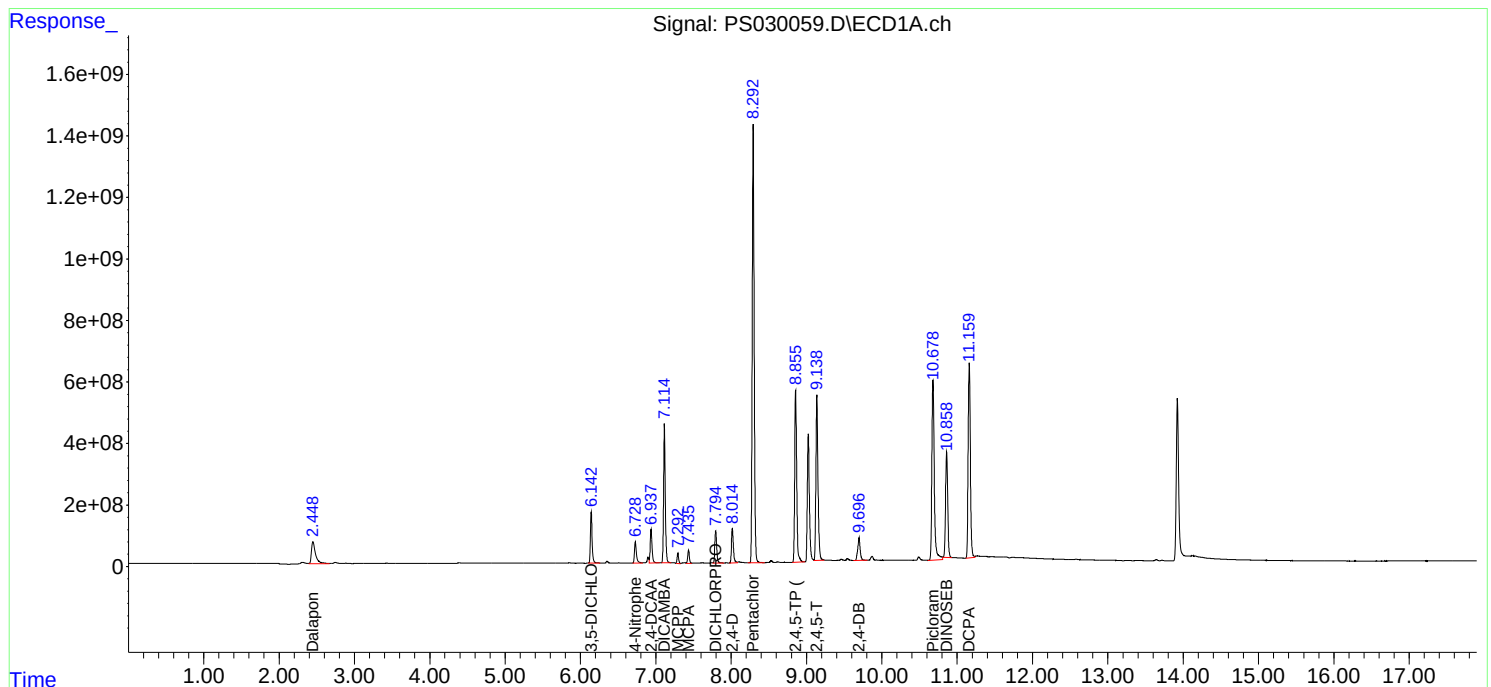
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 14:15
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:55:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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





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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

Continuing Calib Date: 05/06/2025 Initial Calibration Date(s): 04/23/2025 04/23/2025

Continuing Calib Time: 18:40 Initial Calibration Time(s): 11:01 12:37

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	6.94	6.94	6.84	7.04	0.00
2,4-D	8.01	8.02	7.92	8.12	0.01
2,4,5-TP(Silvex)	8.86	8.86	8.76	8.96	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

Continuing Calib Date: 05/06/2025 Initial Calibration Date(s): 04/23/2025 04/23/2025

Continuing Calib Time: 18:40 Initial Calibration Time(s): 11:01 12:37

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.46	7.47	7.37	7.57	0.01
2,4-D	8.65	8.66	8.56	8.76	0.01
2,4,5-TP(Silvex)	9.53	9.54	9.44	9.64	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 04/23/2025 04/23/2025

Client Sample No.: CCAL03 Date Analyzed: 05/06/2025

Lab Sample No.: HSTDCCC750 Data File : PS030070.D Time Analyzed: 18:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	8.855	8.762	8.962	756.820	712.500	6.2
2,4-D	8.014	7.919	8.119	729.360	705.000	3.5
2,4-DCAA	6.937	6.842	7.042	776.060	750.000	3.5



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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929 SAS No.: Q1929 SDG NO.: Q1929

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 04/23/2025 04/23/2025

Client Sample No.: CCAL03 Date Analyzed: 05/06/2025

Lab Sample No.: HSTDCCC750 Data File : PS030070.D Time Analyzed: 18:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.531	9.442	9.642	791.940	712.500	11.1
2,4-D	8.653	8.561	8.761	755.570	705.000	7.2
2,4-DCAA	7.460	7.367	7.567	810.860	750.000	8.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
 Data File : PS030070.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 18:40
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 07 02:01:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.937	7.460	1909.9E6	571.3E6	776.057	810.862
Target Compounds						
1) T Dalapon	2.448	2.523	2781.9E6	1210.9E6	679.305	697.486
2) T 3,5-DICHL...	6.142	6.459	2573.9E6	727.5E6	720.203	744.165
3) T 4-Nitroph...	6.728	6.995	1268.4E6	545.3E6	711.253	711.903
5) T DICAMBA	7.114	7.646	7342.4E6	3128.6E6	741.446	792.031
6) T MCPP	7.292	7.754	468.6E6	129.9E6	72.722	74.254
7) T MCPA	7.435	7.984	655.3E6	175.6E6	74.205	74.215
8) T DICHLORPROP	7.794	8.340	1832.3E6	768.1E6	723.055	765.065
9) T 2,4-D	8.014	8.653	2051.6E6	851.6E6	729.363	755.567
10) T Pentachlo...	8.292	9.153	26503.9E6	16275.2E6	759.749	799.970
11) T 2,4,5-TP ...	8.855	9.531	10491.6E6	6479.4E6	756.817	791.938
12) T 2,4,5-T	9.138	9.936	10651.3E6	6011.4E6	757.935	774.411
13) T 2,4-DB	9.696	10.494	1708.6E6	619.4E6	747.627	769.620
14) T DINOSEB	10.858	10.868	7402.1E6	4309.6E6	727.587	739.079
15) T Picloram	10.677	11.903	13092.1E6	8909.9E6	714.218	725.346m
16) T DCPA	11.159	11.900	13120.5E6	7819.2E6	770.845	693.705m

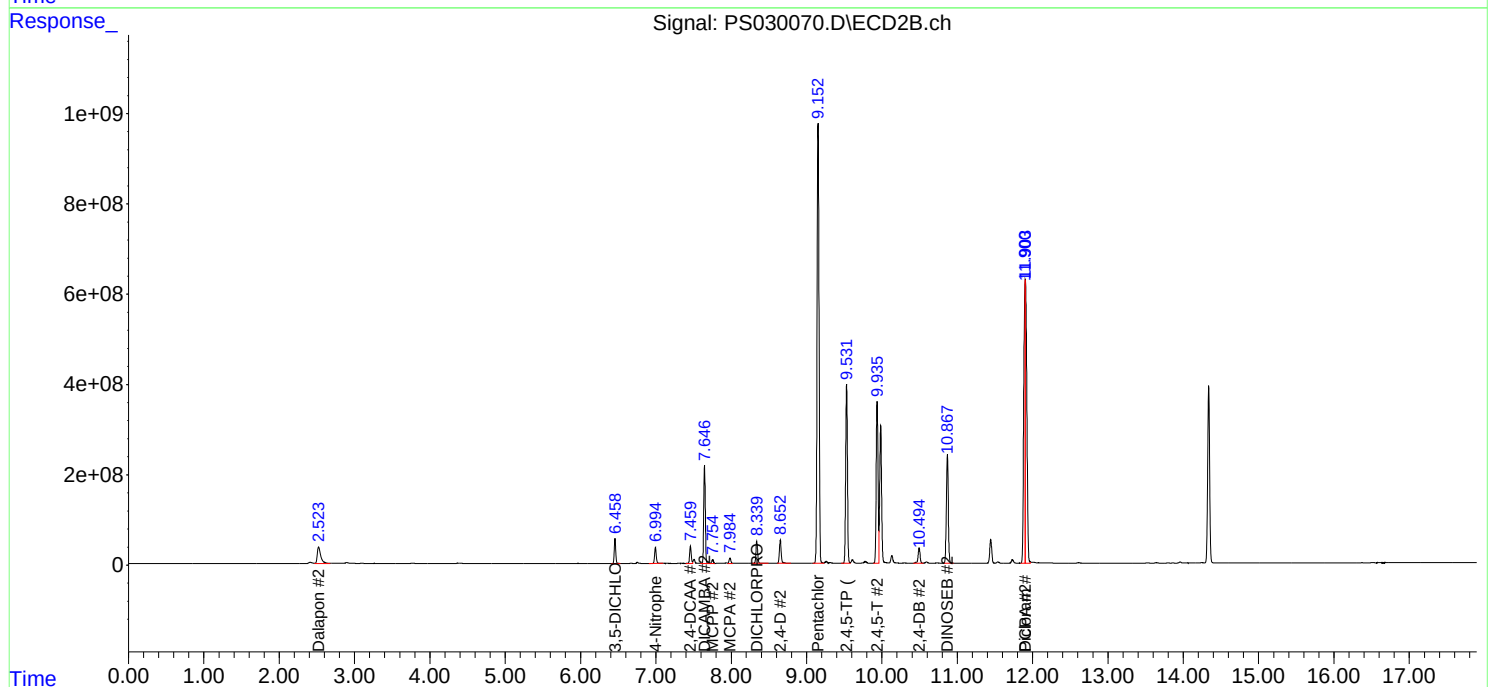
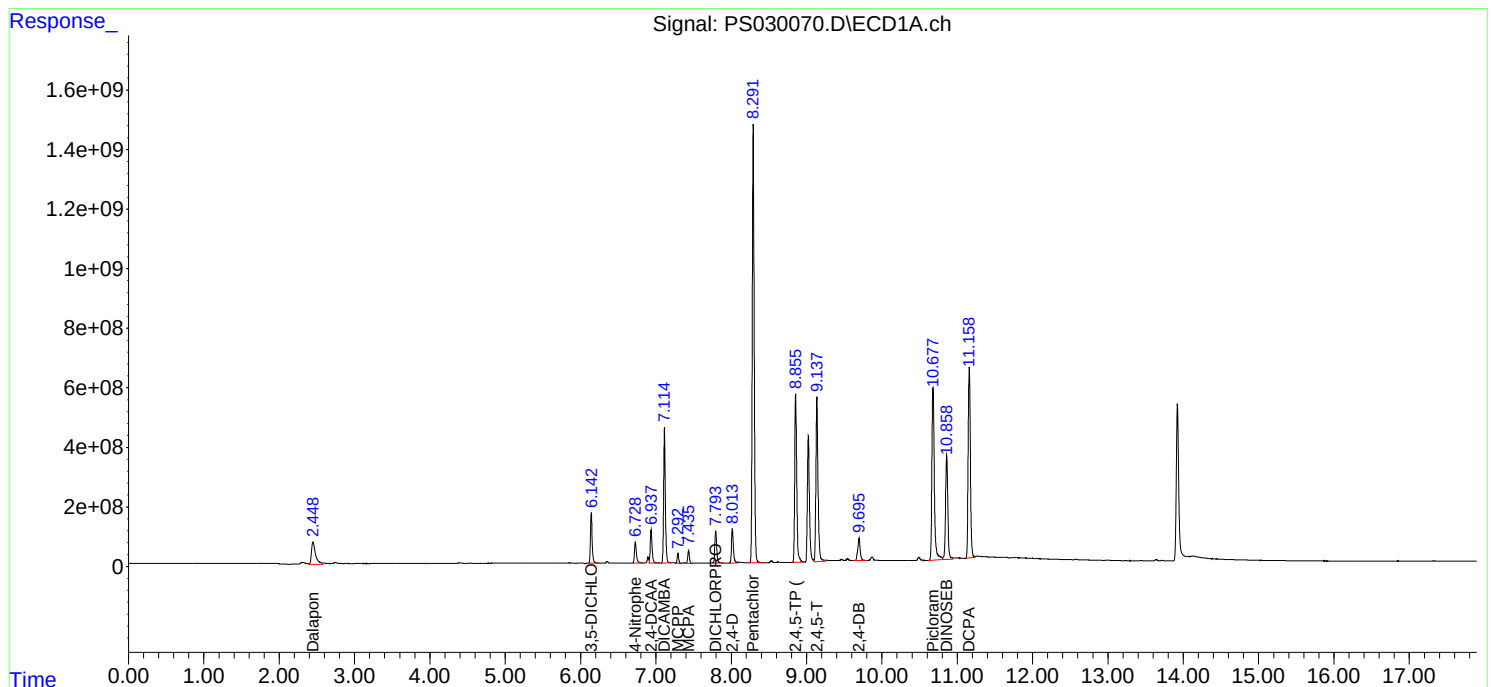
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030070.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 18:40
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 02:01:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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



Analytical Sequence

Client: ENTACT

SDG No.: Q1929

Project: 540 Degraw St, Brooklyn, NY - E9309

Instrument ID: ECD_S

GC Column: RTX-CLP

ID: 0.32 (mm)

Inst. Calib. Date(s): 04/23/2025 04/23/2025

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 #
IBLK	IBLK	04/23/2025	10:37	PS029918.D	6.94	0.00
HSTDICC200	HSTDICC200	04/23/2025	11:01	PS029919.D	6.94	0.00
HSTDICC500	HSTDICC500	04/23/2025	11:25	PS029920.D	6.94	0.00
HSTDICC750	HSTDICC750	04/23/2025	11:49	PS029921.D	6.94	0.00
HSTDICC1000	HSTDICC1000	04/23/2025	12:13	PS029922.D	6.94	0.00
HSTDICC1500	HSTDICC1500	04/23/2025	12:37	PS029923.D	6.94	0.00
IBLK	IBLK	05/06/2025	08:58	PS030051.D	6.94	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	09:50	PS030052.D	6.94	0.00
WC-A4-02-C	Q1929-03	05/06/2025	11:27	PS030053.D	6.94	0.00
WC-A1-03-C	Q1929-07	05/06/2025	12:09	PS030054.D	6.94	0.00
WC-A1-04-C	Q1929-11	05/06/2025	12:33	PS030055.D	6.94	0.00
PB167871BL	PB167871BL	05/06/2025	13:03	PS030056.D	6.94	0.00
PB167871BS	PB167871BS	05/06/2025	13:27	PS030057.D	6.94	0.00
IBLK	IBLK	05/06/2025	13:51	PS030058.D	6.94	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	14:15	PS030059.D	6.94	0.00
PB167815TB	PB167815TB	05/06/2025	15:04	PS030061.D	6.94	0.00
B-167-SB01MS	Q1901-08MS	05/06/2025	15:52	PS030063.D	6.94	0.00
B-167-SB01MSD	Q1901-08MSD	05/06/2025	16:16	PS030064.D	6.94	0.00
IBLK	IBLK	05/06/2025	18:16	PS030069.D	6.94	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	18:40	PS030070.D	6.94	0.00

Analytical Sequence

Client: ENTACT

SDG No.: Q1929

Project: 540 Degraw St, Brooklyn, NY - E9309

Instrument ID: ECD_S

GC Column: RTX-CLP2

ID: 0.32 (mm)

Inst. Calib. Date(s): 04/23/2025 04/23/2025

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 #
IBLK	IBLK	04/23/2025	10:37	PS029918.D	7.47	0.00
HSTDICC200	HSTDICC200	04/23/2025	11:01	PS029919.D	7.47	0.00
HSTDICC500	HSTDICC500	04/23/2025	11:25	PS029920.D	7.47	0.00
HSTDICC750	HSTDICC750	04/23/2025	11:49	PS029921.D	7.47	0.00
HSTDICC1000	HSTDICC1000	04/23/2025	12:13	PS029922.D	7.47	0.00
HSTDICC1500	HSTDICC1500	04/23/2025	12:37	PS029923.D	7.47	0.00
IBLK	IBLK	05/06/2025	08:58	PS030051.D	7.46	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	09:50	PS030052.D	7.46	0.00
WC-A4-02-C	Q1929-03	05/06/2025	11:27	PS030053.D	7.46	0.00
WC-A1-03-C	Q1929-07	05/06/2025	12:09	PS030054.D	7.46	0.00
WC-A1-04-C	Q1929-11	05/06/2025	12:33	PS030055.D	7.46	0.00
PB167871BL	PB167871BL	05/06/2025	13:03	PS030056.D	7.46	0.00
PB167871BS	PB167871BS	05/06/2025	13:27	PS030057.D	7.46	0.00
IBLK	IBLK	05/06/2025	13:51	PS030058.D	7.46	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	14:15	PS030059.D	7.46	0.00
PB167815TB	PB167815TB	05/06/2025	15:04	PS030061.D	7.46	0.00
B-167-SB01MS	Q1901-08MS	05/06/2025	15:52	PS030063.D	7.46	0.00
B-167-SB01MSD	Q1901-08MSD	05/06/2025	16:16	PS030064.D	7.46	0.00
IBLK	IBLK	05/06/2025	18:16	PS030069.D	7.46	0.00
HSTDCCC750	HSTDCCC750	05/06/2025	18:40	PS030070.D	7.46	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-167-SB01MS

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929

SAS No.: Q1929 SDG NO.: Q1929

Lab Sample ID: Q1901-08MS

Date(s) Analyzed: 05/06/2025 05/06/2025

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	8.01	7.96	8.06	64.2	0.8
	2	8.65	8.60	8.70	63.7	
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	60.9	4
	2	9.53	9.48	9.58	63.4	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-167-SB01MSD

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929

SAS No.: Q1929 SDG NO.: Q1929

Lab Sample ID: Q1901-08MSD

Date(s) Analyzed: 05/06/2025 05/06/2025

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	8.01	7.96	8.06	67.0	1.1
	2	8.65	8.60	8.70	66.3	
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	63.4	4.2
	2	9.53	9.48	9.58	66.1	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167871BS

Contract: ENTA05

Lab Code: CHEM Case No.: Q1929

SAS No.: Q1929 SDG NO.: Q1929

Lab Sample ID: PB167871BS

Date(s) Analyzed: 05/06/2025 05/06/2025

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		
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	5.30	1.9
	2	9.53	9.48	9.58	5.40	
2,4-D	1	8.01	7.96	8.06	5.20	1.9
	2	8.65	8.60	8.70	5.30	



QC SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB167871BL	SDG No.:	Q1929
Lab Sample ID:	PB167871BL	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
PS030056.D	1	05/05/25 08:50	05/06/25 13:03	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	620		70 (39) - 130 (175)	124%	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\PS050625\
 Data File : PS030056.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 13:03
 Operator : AR\AJ
 Sample : PB167871BL
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB167871BL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 07 01:25:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.937	7.458	1525.9E6	433.6E6	619.998	615.503

Target Compounds

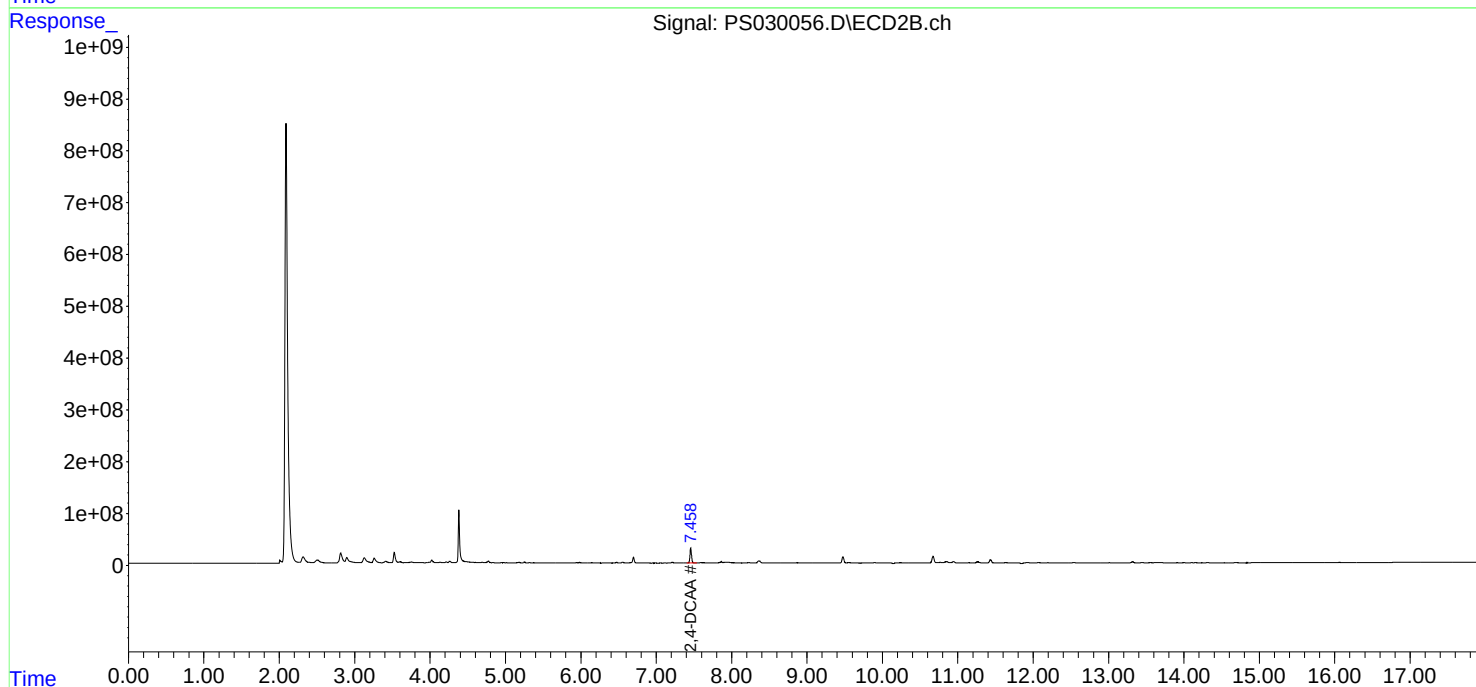
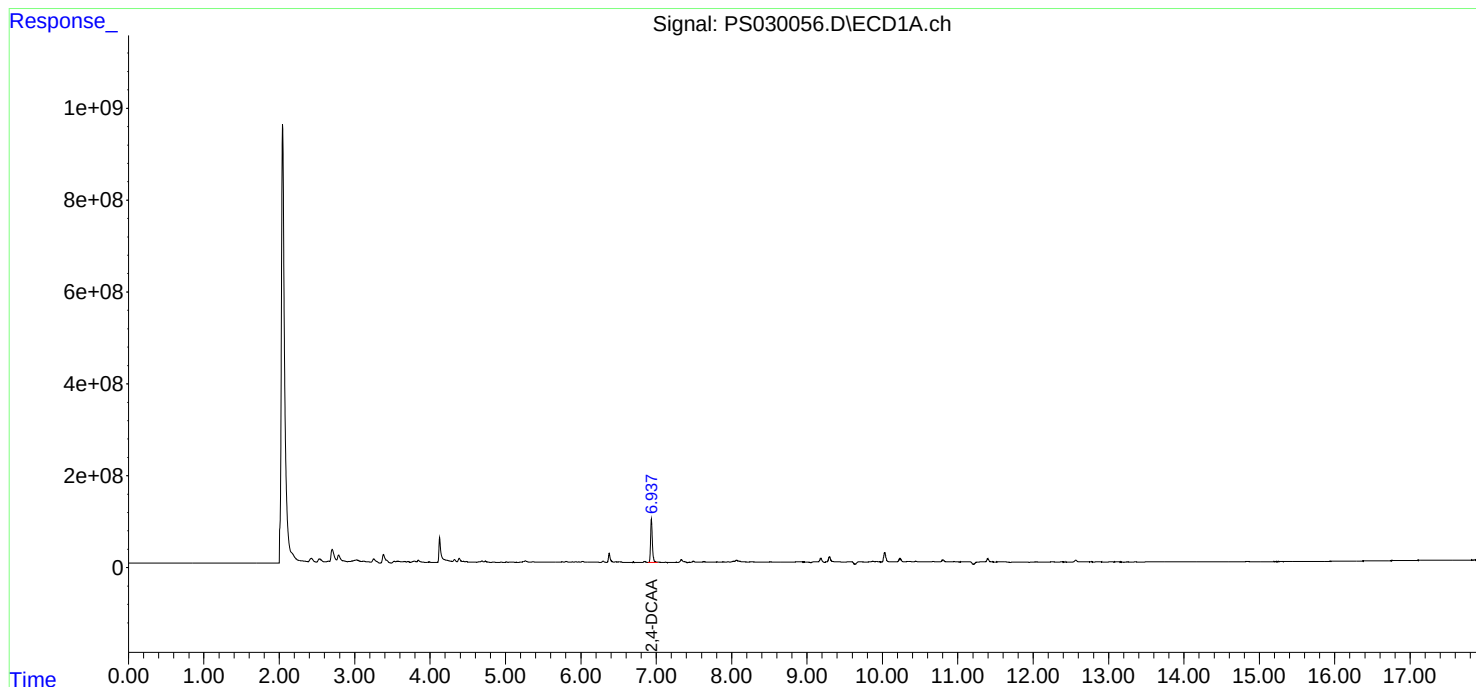
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

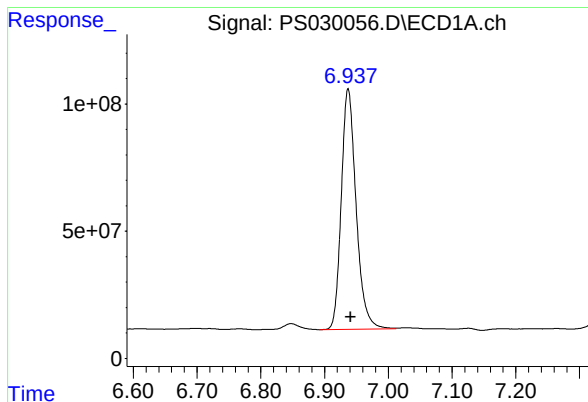
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030056.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 13:03
Operator : AR\AJ
Sample : PB167871BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167871BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:25:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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

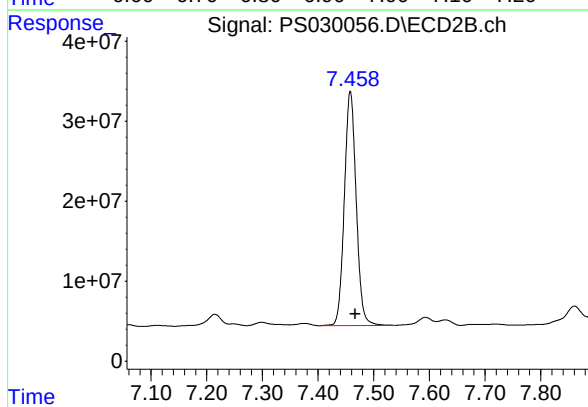




#4 2,4-DCAA

R.T.: 6.937 min
Delta R.T.: -0.004 min
Response: 1525863866
Conc: 620.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167871BL



#4 2,4-DCAA

R.T.: 7.458 min
Delta R.T.: -0.009 min
Response: 433632279
Conc: 615.50 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	04/23/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/23/25
Client Sample ID:	PIBLK-PS029918.D	SDG No.:	Q1929
Lab Sample ID:	I.BLK-PS029918.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
PS029918.D	1		04/23/25	PS042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	433		70 (39) - 130 (175)	87%	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\PS042325\
Data File : PS029918.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Apr 2025 10:37
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: Apr 23 12:58:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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	6.942	7.467	1065.1E6	304.8E6	432.760	432.665

Target Compounds

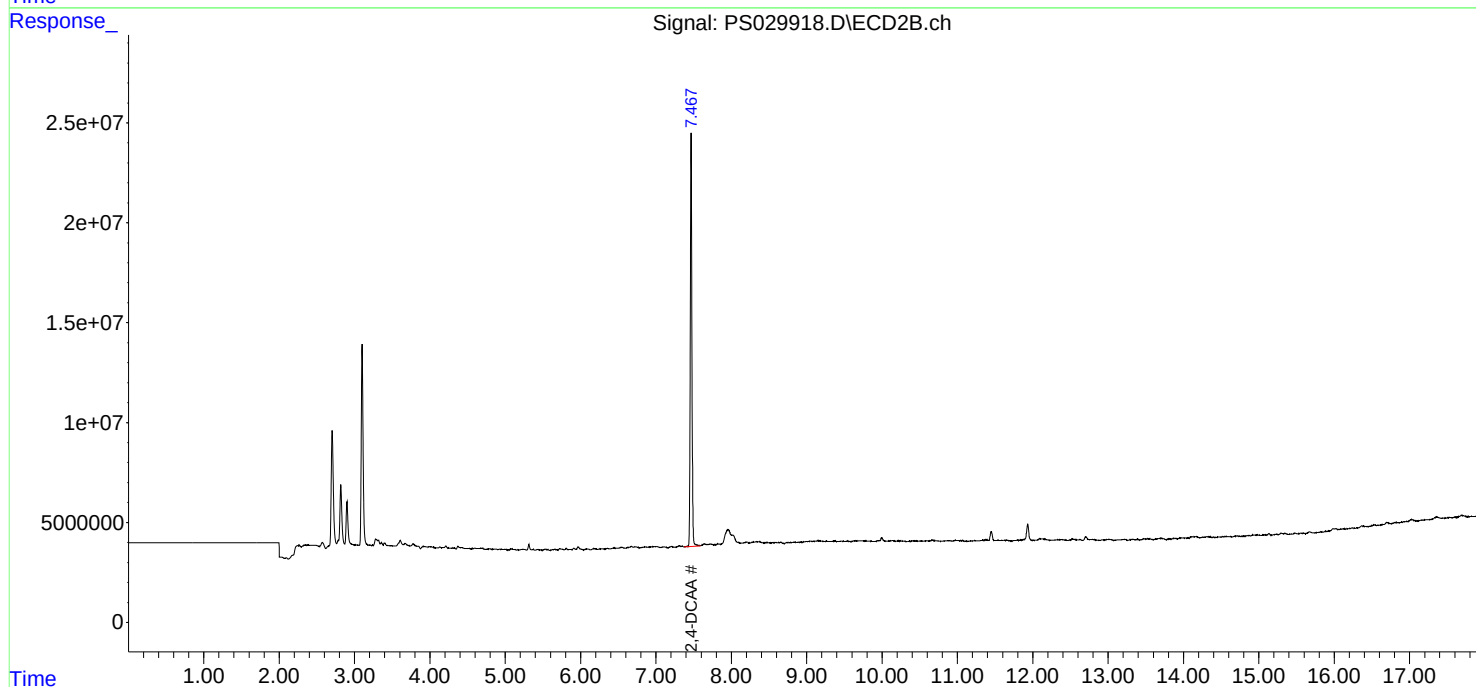
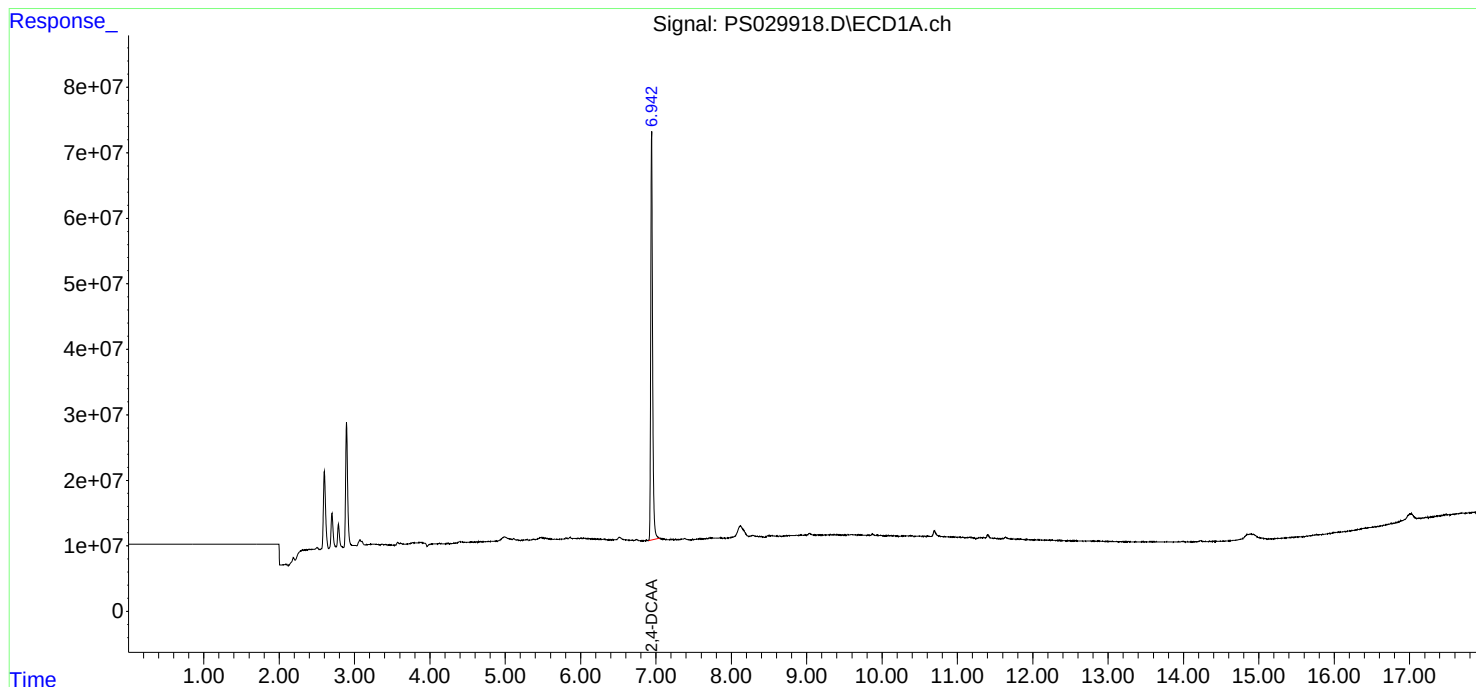
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

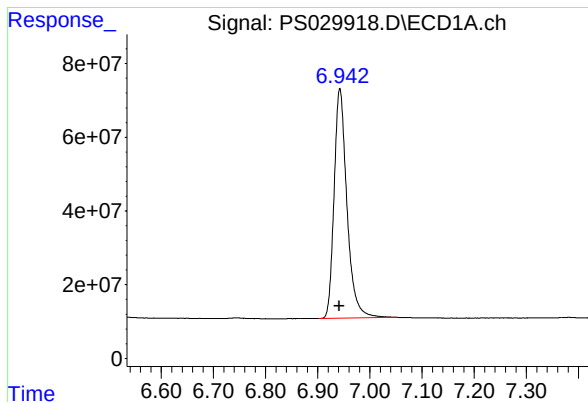
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS042325\
Data File : PS029918.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Apr 2025 10:37
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 23 12:58:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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.: 6.942 min

Delta R.T.: 0.001 min

Response: 1065056072

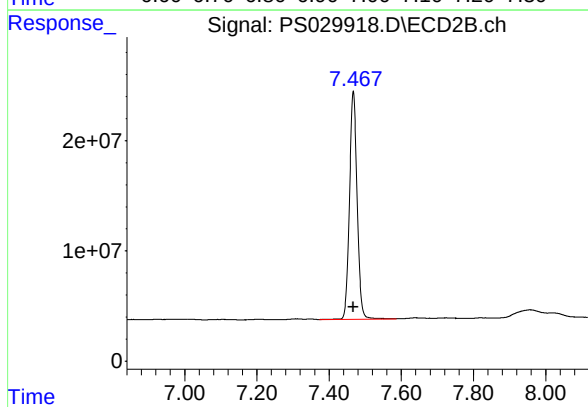
Conc: 432.76 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.467 min

Delta R.T.: 0.000 min

Response: 304820126

Conc: 432.67 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	05/06/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	05/06/25
Client Sample ID:	PIBLK-PS030051.D	SDG No.:	Q1929
Lab Sample ID:	I.BLK-PS030051.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
PS030051.D	1		05/06/25	PS050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	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\PS050625\
Data File : PS030051.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 08:58
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: May 06 13:10:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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
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System Monitoring Compounds

4) S	2,4-DCAA	6.937	7.460	1331.0E6	395.6E6	540.836	561.482
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Target Compounds

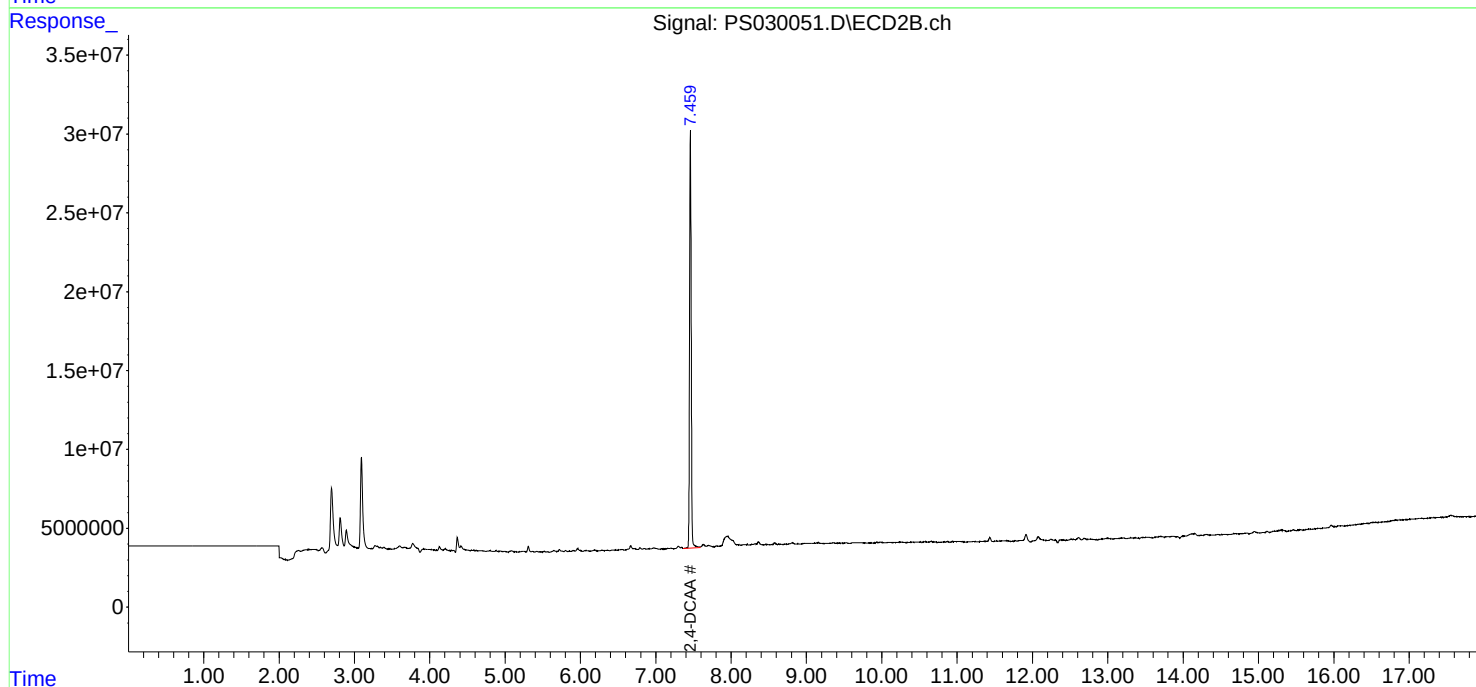
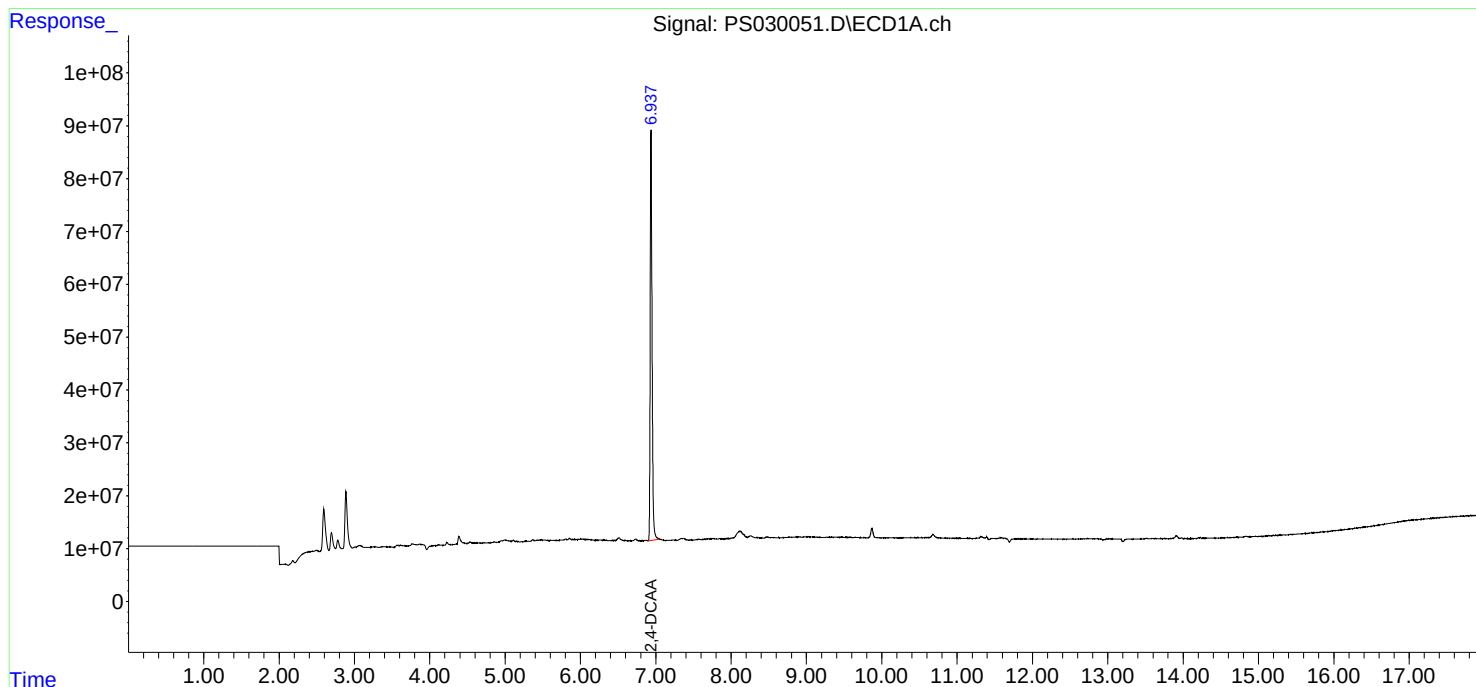
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

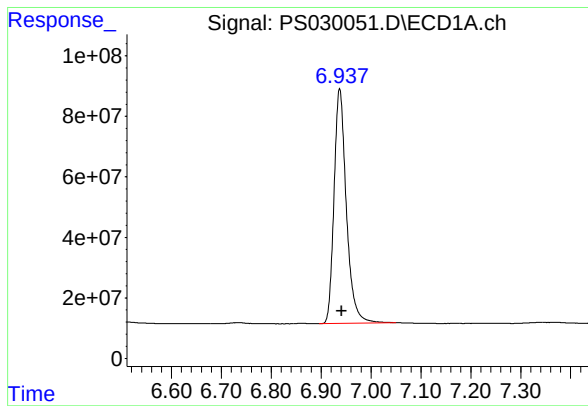
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030051.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 08:58
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 13:10:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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

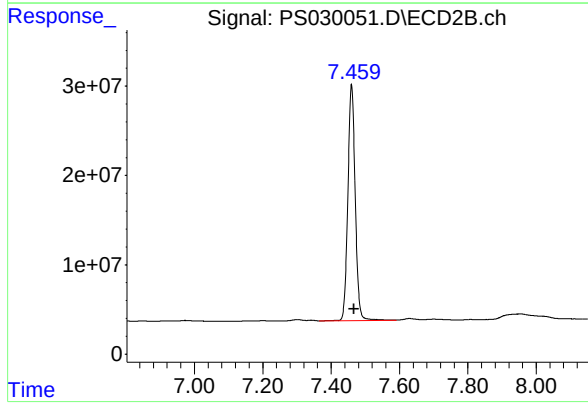




#4 2,4-DCAA

R.T.: 6.937 min
Delta R.T.: -0.004 min
Response: 1331040307
Conc: 540.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.460 min
Delta R.T.: -0.007 min
Response: 395573464
Conc: 561.48 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	05/06/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	05/06/25
Client Sample ID:	PIBLK-PS030058.D	SDG No.:	Q1929
Lab Sample ID:	I.BLK-PS030058.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
PS030058.D	1		05/06/25	ps050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	558		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\PS050625\
Data File : PS030058.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 13:51
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: May 07 01:54:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S	2,4-DCAA	6.937	7.460	1311.3E6	393.3E6	532.822	558.282
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Target Compounds

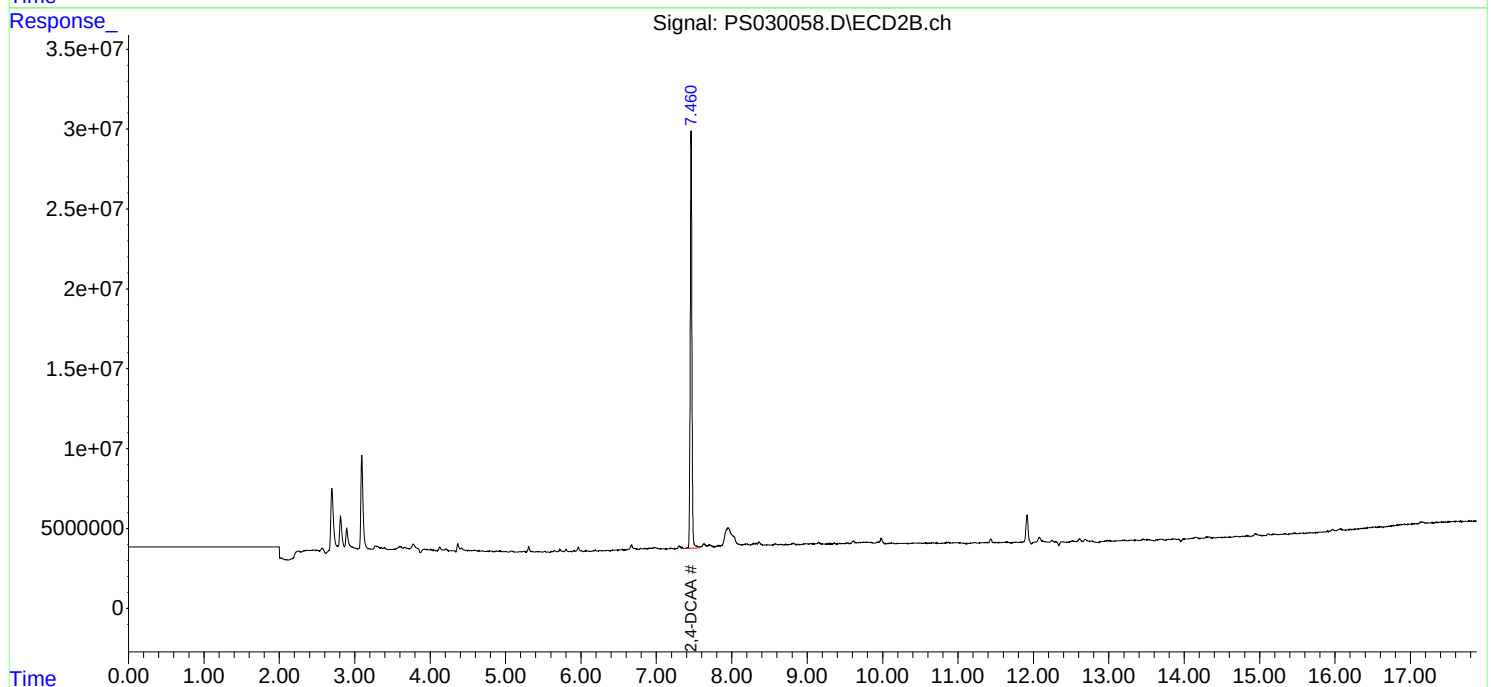
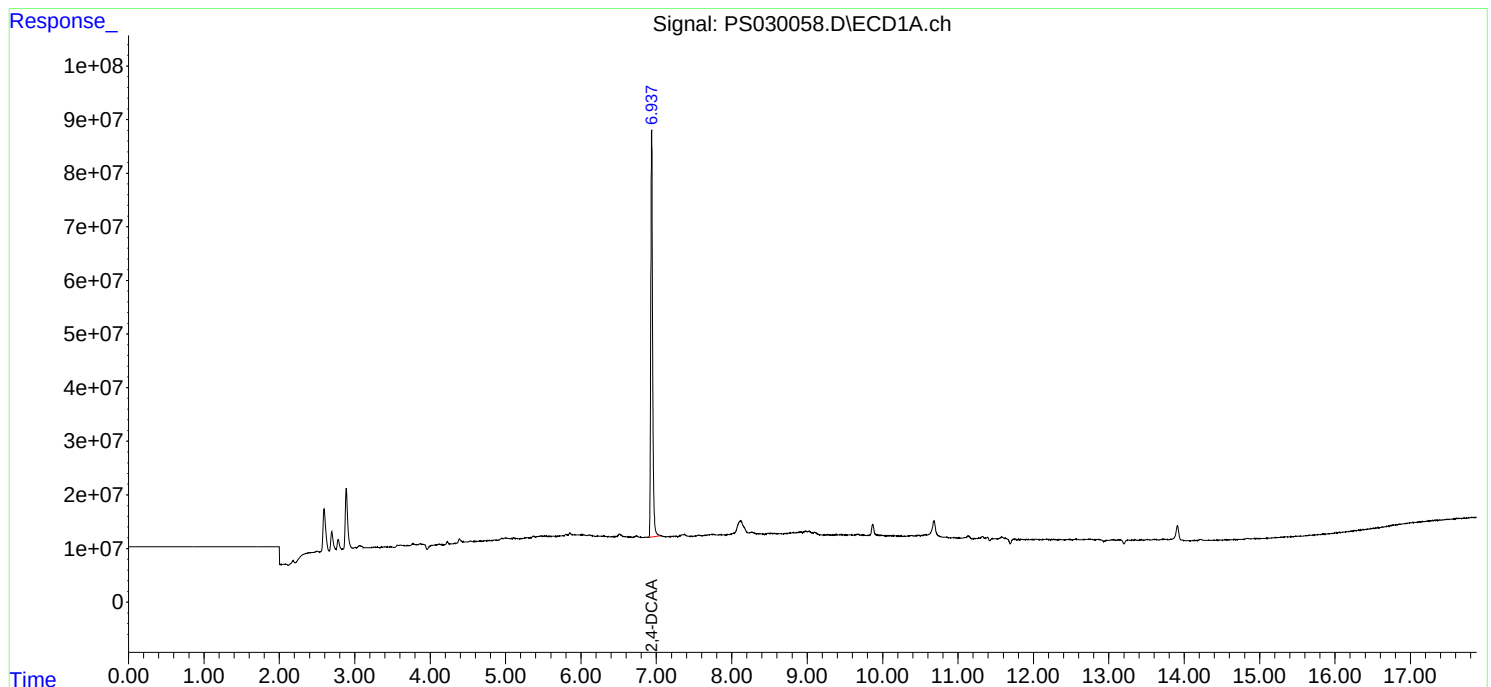
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

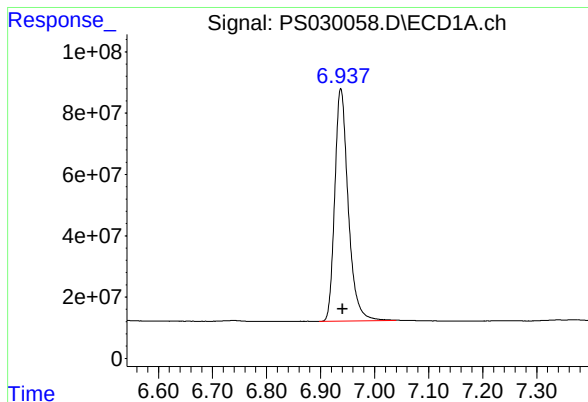
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030058.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 13:51
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:54:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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

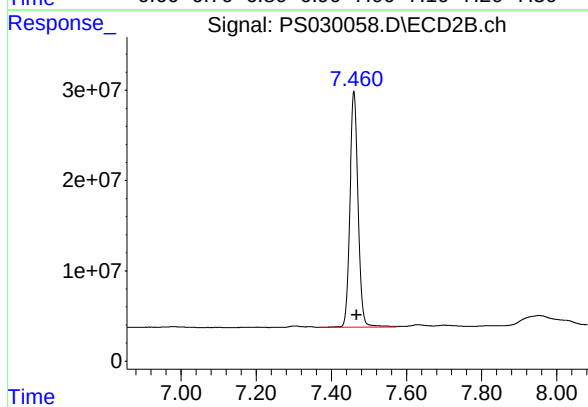
R.T.: 6.937 min
Delta R.T.: -0.004 min
Response: 1311316873
Conc: 532.82 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.460 min
Delta R.T.: -0.007 min
Response: 393319168
Conc: 558.28 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	05/06/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	05/06/25
Client Sample ID:	PIBLK-PS030069.D	SDG No.:	Q1929
Lab Sample ID:	I.BLK-PS030069.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
PS030069.D	1		05/06/25	ps050625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	563		70 (39) - 130 (175)	113%	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\PS050625\
 Data File : PS030069.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 18:16
 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: May 07 02:01:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.938	7.460	1320.6E6	396.8E6	536.588	563.162

Target Compounds

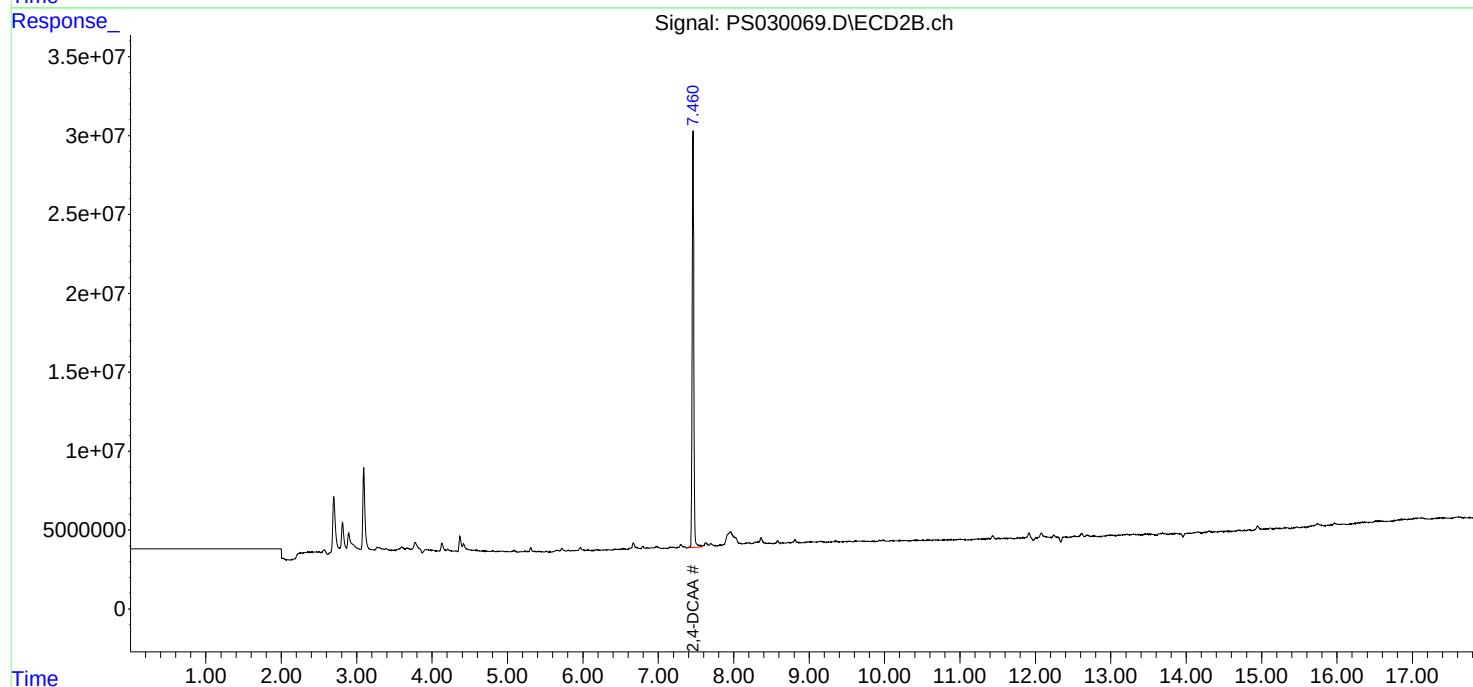
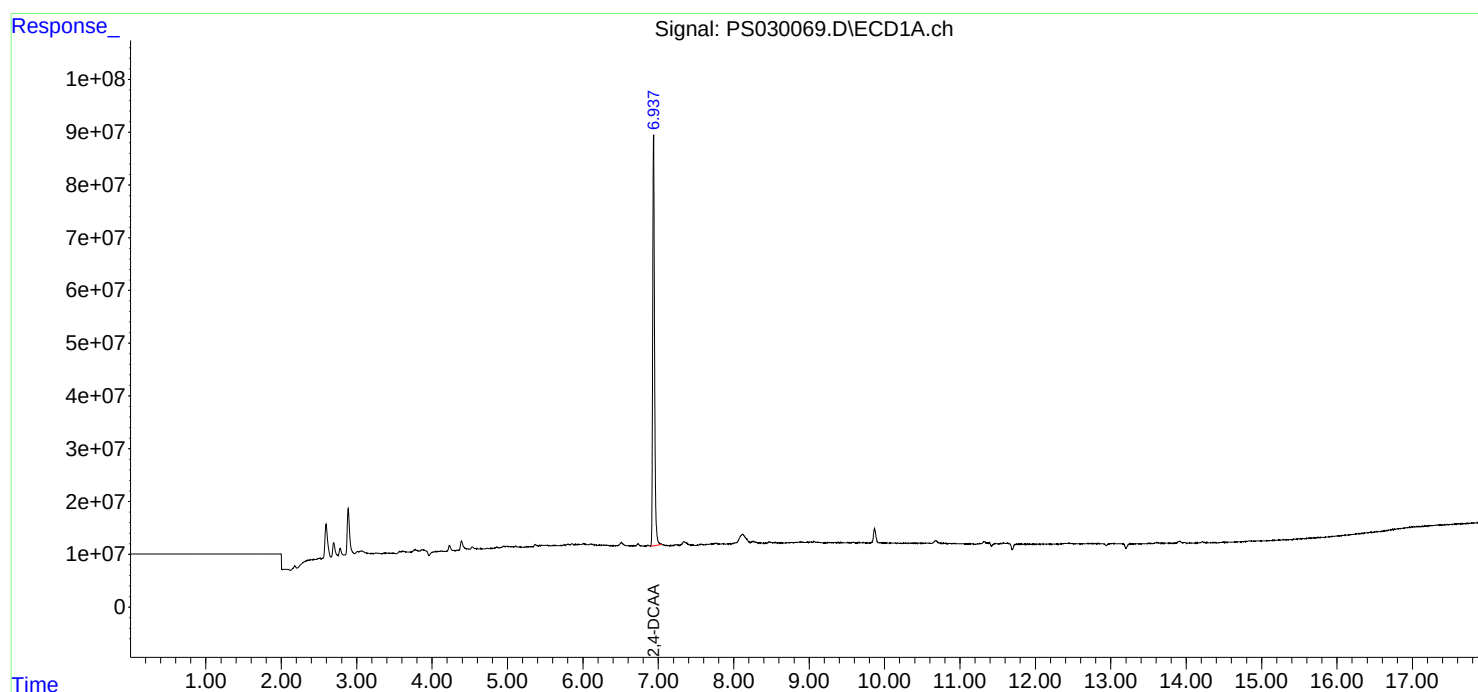
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

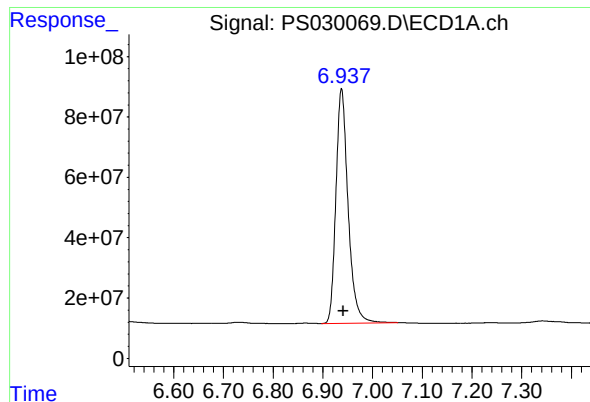
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030069.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 18:16
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 02:01:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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.: 6.938 min

Delta R.T.: -0.004 min

Response: 1320586595

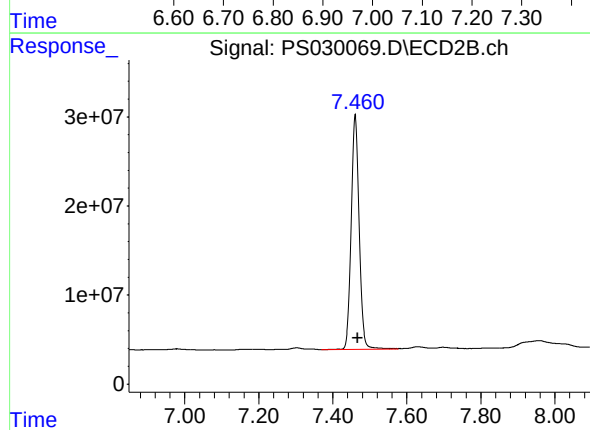
Conc: 536.59 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.460 min

Delta R.T.: -0.007 min

Response: 396757511

Conc: 563.16 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB167871BS	SDG No.:	Q1929
Lab Sample ID:	PB167871BS	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
PS030057.D	1	05/05/25 08:50	05/06/25 13:27	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.30		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.40		0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	562		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\PS050625\
 Data File : PS030057.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 13:27
 Operator : AR\AJ
 Sample : PB167871BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB167871BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 07 01:26:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.937	7.460	1365.3E6	396.0E6	554.772m	562.022
Target Compounds							
1) T	Dalapon	2.447	2.522	1794.8E6	778.0E6	438.254m	448.126m
2) T	3,5-DICHL...	6.142	6.458	1831.8E6	504.8E6	512.557	516.419
3) T	4-Nitroph...	6.728	6.995	892.6E6	382.0E6	500.554	498.761
5) T	DICAMBA	7.114	7.646	5139.5E6	2090.3E6	518.987	529.175m
6) T	MCPD	7.291	7.753	307.6E6	86545276	47.737	49.484
7) T	MCPA	7.434	7.982	436.7E6	114.3E6	49.452	48.333m
8) T	DICHLORPROP	7.794	8.339	1297.9E6	518.7E6	512.187	516.688m
9) T	2,4-D	8.014	8.652	1454.4E6	593.7E6	517.062	526.714
10) T	Pentachlo...	8.292	9.153	18780.8E6	11268.2E6	538.362	553.862
11) T	2,4,5-TP ...	8.855	9.531	7355.0E6	4446.4E6	530.552	543.458
12) T	2,4,5-T	9.138	9.936	7513.8E6	4133.4E6	534.671	532.473
13) T	2,4-DB	9.696	10.494	1196.7E6	426.0E6	523.627	529.238
14) T	DINOSEB	10.857	10.867	5060.9E6	2987.0E6	497.465m	512.259
15) T	Picloram	10.677	11.902	8962.8E6	5947.0E6	488.955	484.138m
16) T	DCPA	11.159	11.901	9243.7E6	5946.0E6	543.078	527.514m

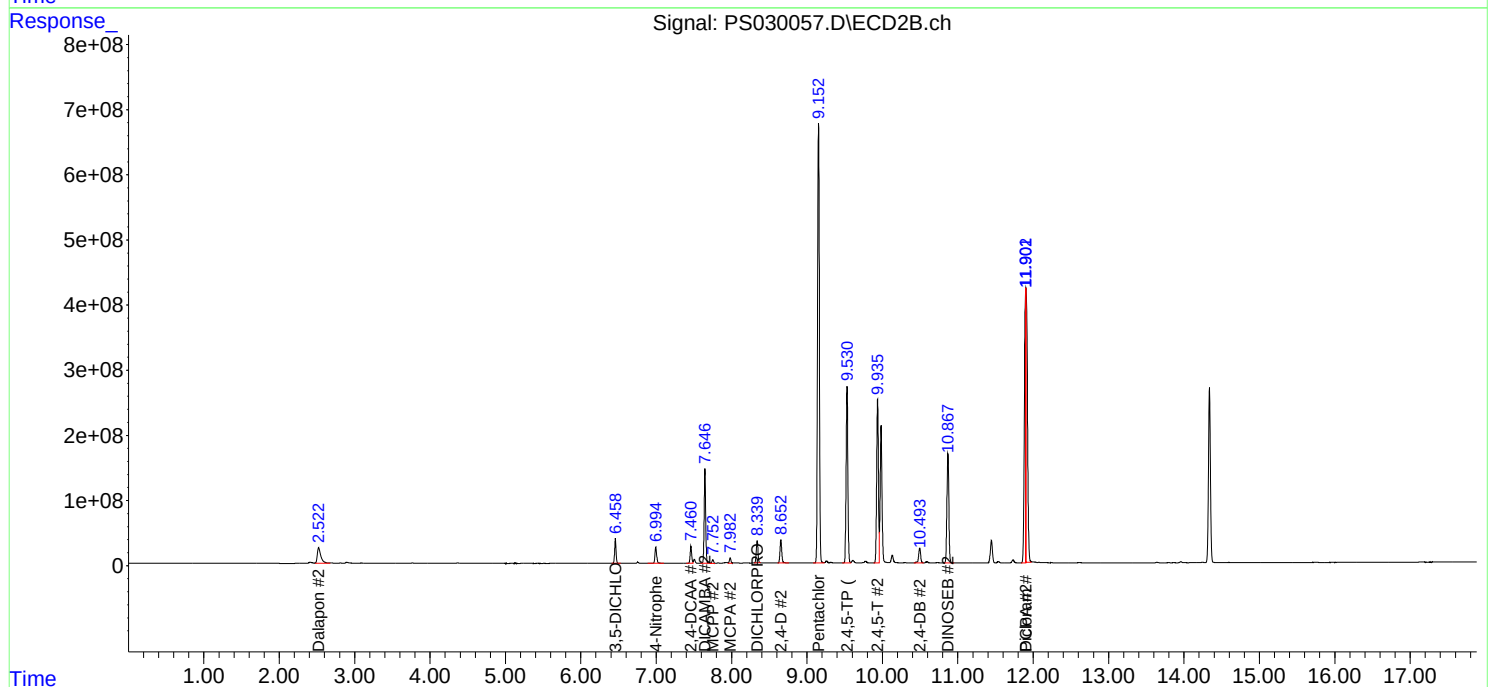
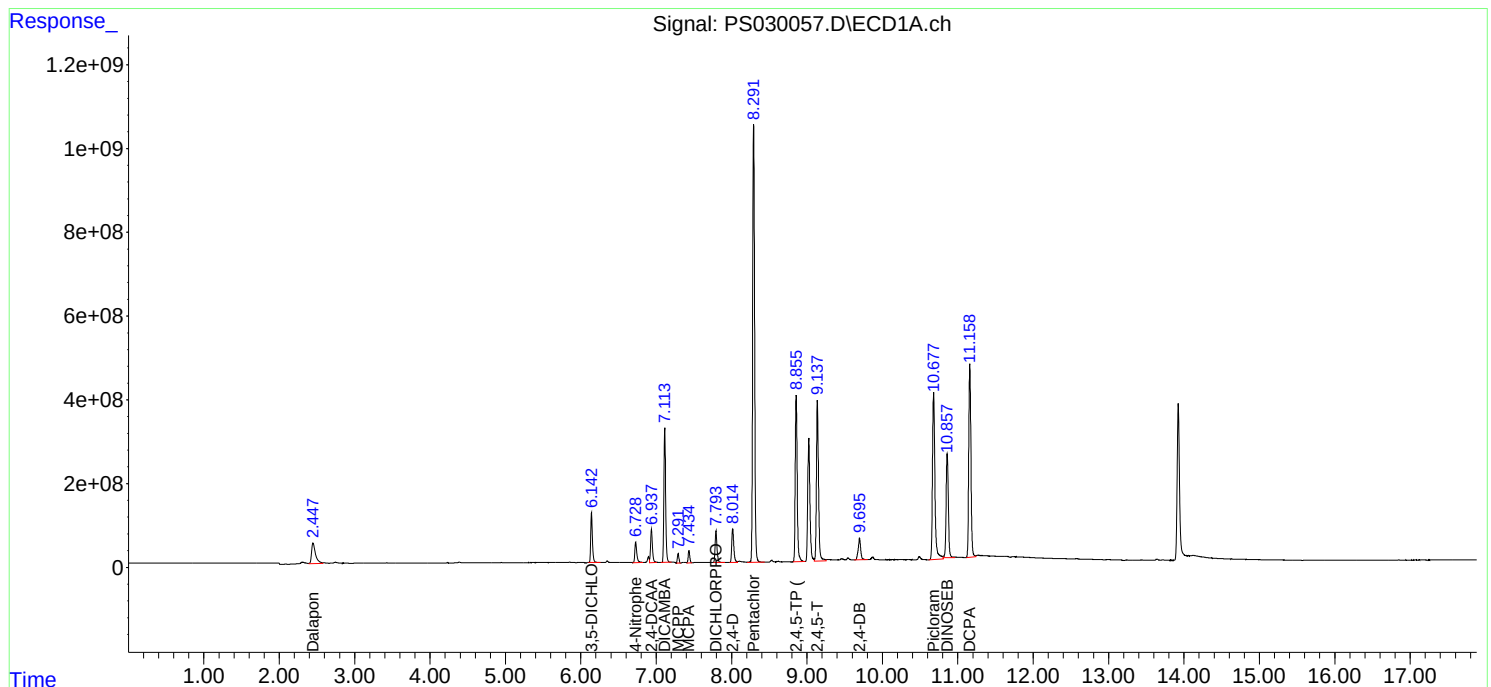
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030057.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 13:27
Operator : AR\AJ
Sample : PB167871BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167871BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:26:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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



Report of Analysis

Client:	ENTACT	Date Collected:	04/26/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1929
Lab Sample ID:	Q1901-08MS	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
PS030063.D	1	05/05/25 08:50	05/06/25 15:52	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	64.2		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	63.4		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	690	*	70 (39) - 130 (175)	138%	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\PS050625\
 Data File : PS030063.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 15:52
 Operator : AR\AJ
 Sample : Q1901-08MS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 B-167-SB01MS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 07 01:57:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.939	7.461	1698.5E6	406.7E6	690.157	577.297
Target Compounds							
1) T	Dalapon	2.447	2.522	1736.4E6	907.4E6	423.991	522.654m
2) T	3,5-DICHL...	6.142	6.458	2061.3E6	575.5E6	576.787	588.668m
3) T	4-Nitroph...	6.732	6.997	10707654	5381930	6.004m	7.027m
5) T	DICAMBA	7.114	7.647	5005.3E6	2264.0E6	505.442	573.163
6) T	MCPD	7.291	7.754	349.3E6	87539688	54.207m	50.053
7) T	MCPA	7.434	7.983	421.8E6	120.0E6	47.760	50.732m
8) T	DICHLORPROP	7.794	8.340	1393.0E6	689.4E6	549.681	686.682m
9) T	2,4-D	8.014	8.652	1805.3E6	717.7E6	641.806	636.803
10) T	Pentachlo...	8.292	9.154	19049.9E6	11319.7E6	546.078	556.393
11) T	2,4,5-TP ...	8.856	9.532	8440.1E6	5185.4E6	608.829	633.780
12) T	2,4,5-T	9.138	9.937	8280.5E6	4625.1E6	589.233	595.822
13) T	2,4-DB	9.697	10.494	1079.4E6	444.1E6	472.316m	551.736m
14) T	DINOSEB	10.859	10.868	4194.5E6	2340.1E6	412.296	401.321
15) T	Picloram	10.678	11.905	8756.5E6	5806.2E6	477.698	472.678m
16) T	DCPA	11.160	11.900	9683.9E6	6317.2E6	568.937	560.450m

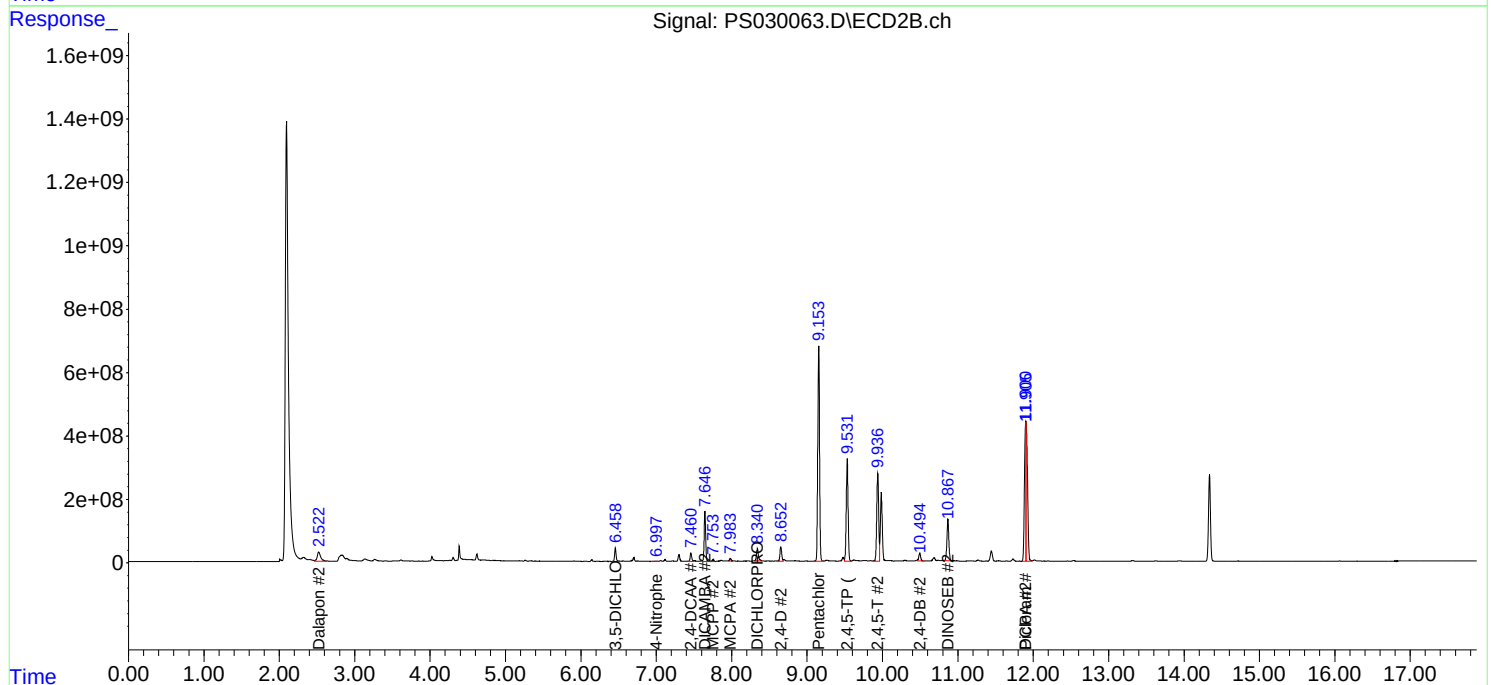
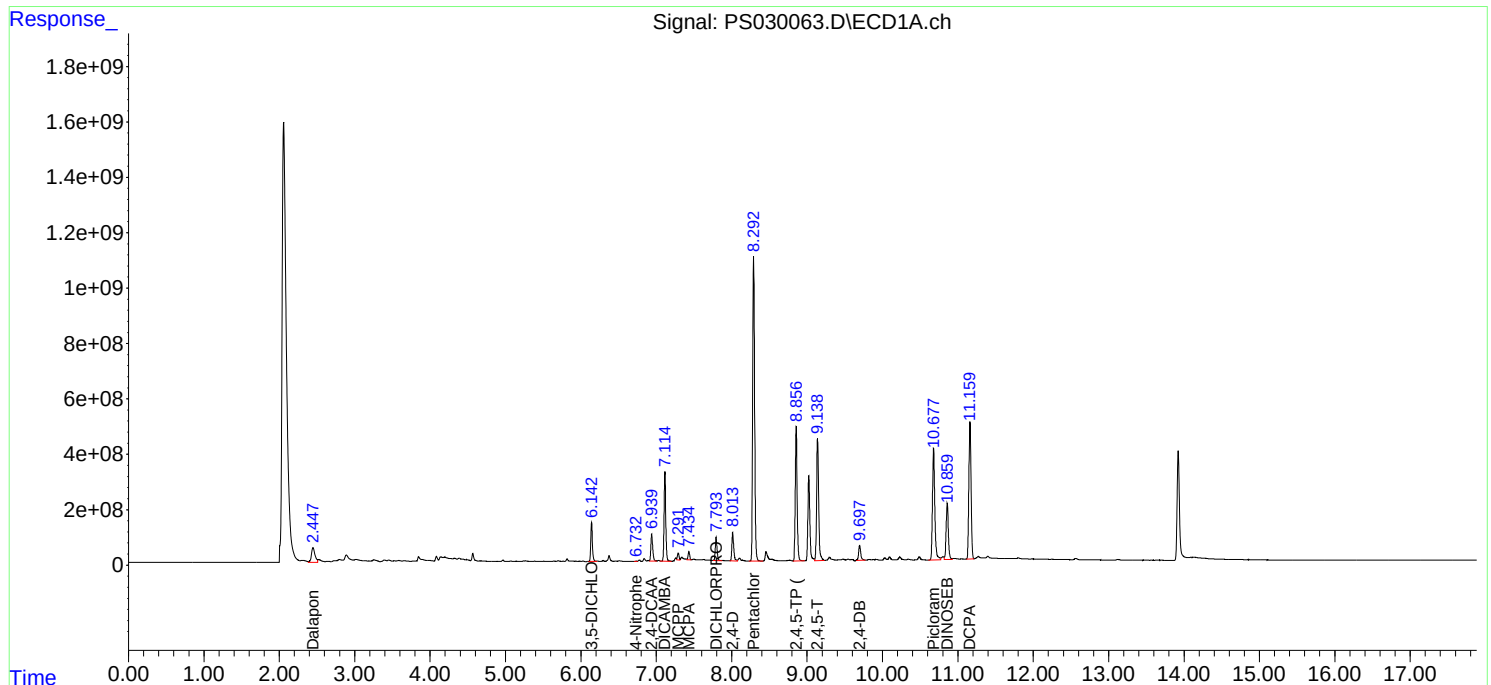
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030063.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 15:52
Operator : AR\AJ
Sample : Q1901-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-167-SB01MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:57:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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



Report of Analysis

Client:	ENTACT	Date Collected:	04/26/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1929
Lab Sample ID:	Q1901-08MSD	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
PS030064.D	1	05/05/25 08:50	05/06/25 16:16	PB167871

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	67.0		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	66.1		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	691	*	70 (39) - 130 (175)	138%	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\PS050625\
 Data File : PS030064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 May 2025 16:16
 Operator : AR\AJ
 Sample : Q1901-08MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 B-167-SB01MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 07 01:58:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
 Quant Title : 8080.M
 QLast Update : Wed Apr 23 12:57:40 2025
 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	6.939	7.461	1701.1E6	415.3E6	691.201m	589.526
Target Compounds							
1) T	Dalapon	2.447	2.522	1791.3E6	856.4E6	437.402	493.283m
2) T	3,5-DICHL...	6.142	6.459	2133.4E6	600.1E6	596.970	613.850
3) T	4-Nitroph...	6.730	6.997	14909010	5649598	8.360	7.376m
5) T	DICAMBA	7.114	7.646	5186.9E6	2361.5E6	523.780	597.831
6) T	MCPD	7.291	7.754	457.7E6	91698459	71.033m	52.431 #
7) T	MCPA	7.434	7.982	442.4E6	134.4E6	50.096	56.792m
8) T	DICHLORPROP	7.793	8.339	1444.9E6	713.9E6	570.193	711.074m
9) T	2,4-D	8.013	8.652	1885.5E6	747.1E6	670.295	662.832
10) T	Pentachlo...	8.292	9.153	19451.4E6	11594.1E6	557.587	569.879
11) T	2,4,5-TP ...	8.855	9.532	8785.7E6	5409.3E6	633.761	661.141
12) T	2,4,5-T	9.137	9.936	8613.3E6	4842.1E6	612.909	623.777
13) T	2,4-DB	9.695	10.493	1154.6E6	468.7E6	505.224m	582.352m
14) T	DINOSEB	10.858	10.868	4206.7E6	2346.0E6	413.503	402.332
15) T	Picloram	10.677	11.903	9094.6E6	6520.5E6	496.141	530.831m
16) T	DCPA	11.159	11.901	10091.7E6	5920.2E6	592.897	525.233m

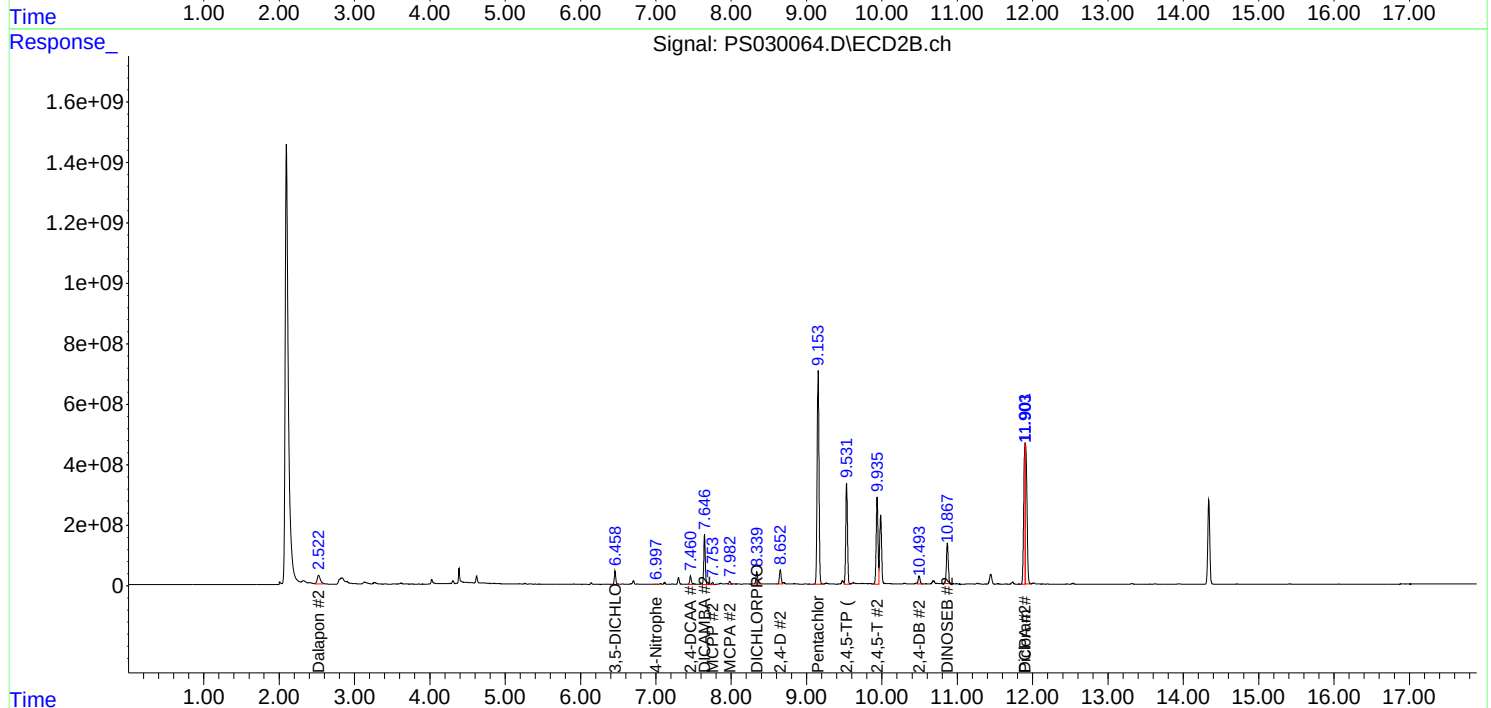
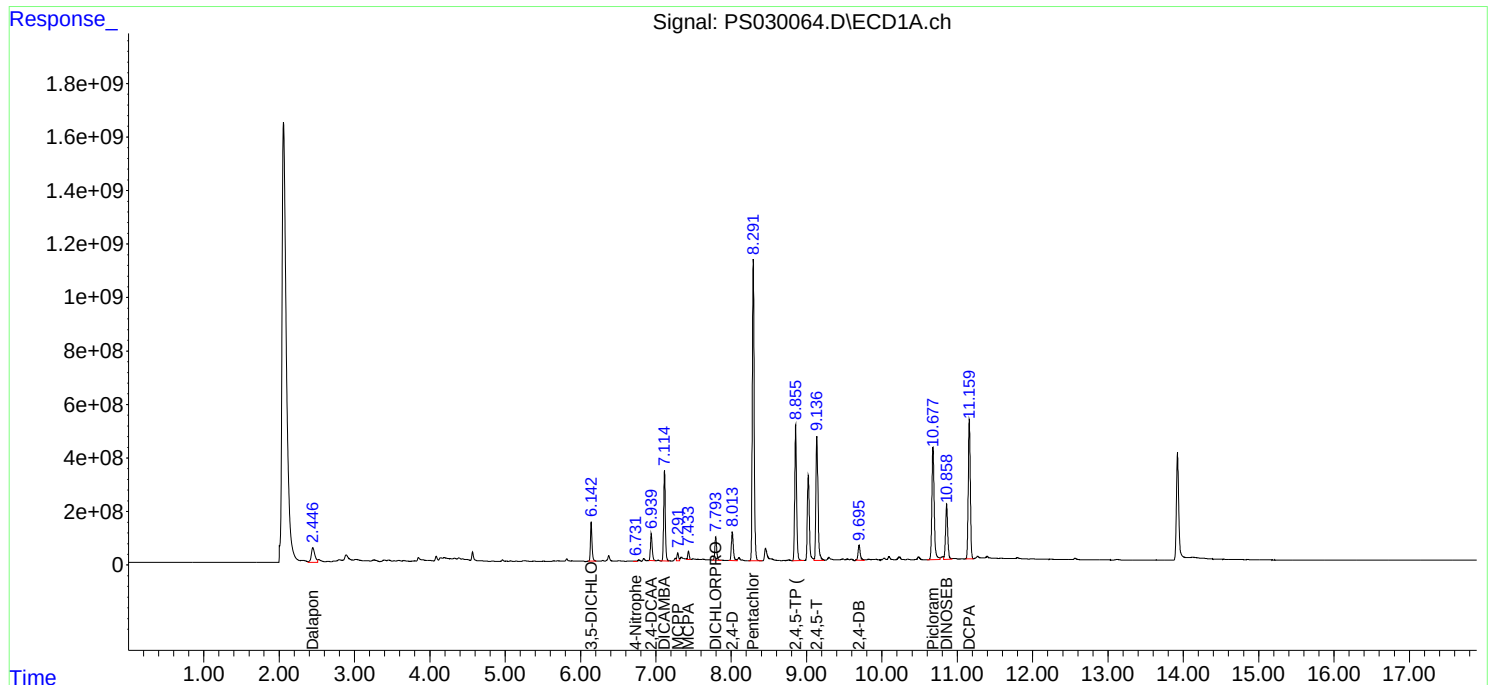
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS050625\
Data File : PS030064.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 May 2025 16:16
Operator : AR\AJ
Sample : Q1901-08MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-167-SB01MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 01:58:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS042325.M
Quant Title : 8080.M
QLast Update : Wed Apr 23 12:57:40 2025
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



Manual Integration Report

Sequence:	PS042325	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS029919.D	Dalapon	Abdul	4/24/2025 8:49:48 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC200	PS029919.D	DCPA #2	Abdul	4/24/2025 8:49:48 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC200	PS029919.D	Picloram #2	Abdul	4/24/2025 8:49:48 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC500	PS029920.D	DCPA #2	Abdul	4/24/2025 8:49:52 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC500	PS029920.D	Picloram #2	Abdul	4/24/2025 8:49:52 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC750	PS029921.D	DCPA #2	Abdul	4/24/2025 8:49:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC750	PS029921.D	Picloram #2	Abdul	4/24/2025 8:49:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC1000	PS029922.D	DCPA #2	Abdul	4/24/2025 8:49:59 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC1000	PS029922.D	Picloram #2	Abdul	4/24/2025 8:49:59 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC1500	PS029923.D	DCPA #2	Abdul	4/24/2025 8:50:02 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICC1500	PS029923.D	Picloram #2	Abdul	4/24/2025 8:50:02 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICV750	PS029924.D	DCPA #2	Abdul	4/24/2025 8:50:06 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDICV750	PS029924.D	Picloram #2	Abdul	4/24/2025 8:50:06 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software

Manual Integration Report

Sequence:

PS042325

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029926.D	DCPA #2	Abdul	4/24/2025 8:50:10 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029926.D	Picloram #2	Abdul	4/24/2025 8:50:10 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029935.D	DCPA #2	Abdul	4/24/2025 8:50:13 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029935.D	Picloram #2	Abdul	4/24/2025 8:50:13 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029943.D	DCPA #2	Abdul	4/24/2025 8:50:32 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029943.D	Picloram #2	Abdul	4/24/2025 8:50:32 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029954.D	DCPA #2	Abdul	4/24/2025 8:50:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029954.D	DICAMBA #2	Abdul	4/24/2025 8:50:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029954.D	MCPP #2	Abdul	4/24/2025 8:50:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software
HSTDCCC750	PS029954.D	Picloram #2	Abdul	4/24/2025 8:50:56 AM	mohammad	4/26/2025 2:18:24	Peak Integrated by Software

Manual Integration Report

Sequence:	PS050625	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030052.D	DCPA #2	yogesh	5/7/2025 9:51:43 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030052.D	Picloram #2	yogesh	5/7/2025 9:51:43 AM	 	 	Peak Integrated by Software
Q1929-03	PS030053.D	2,4-DCAA #2	yogesh	5/7/2025 9:51:44 AM	 	 	Peak Integrated by Software
PB167871BS	PS030057.D	2,4-DCAA	yogesh	5/7/2025 9:51:46 AM	 	 	Peak Integrated by Software
PB167871BS	PS030057.D	Dalapon	yogesh	5/7/2025 9:51:46 AM	 	 	Peak Integrated by Software
PB167871BS	PS030057.D	Dalapon #2	yogesh	5/7/2025 9:51:46 AM	 	 	Peak Integrated by Software
PB167871BS	PS030057.D	DCPA #2	yogesh	5/7/2025 9:51:46 AM	 	 	Peak Integrated by Software
PB167871BS	PS030057.D	DICAMBA #2	yogesh	5/7/2025 9:51:46 AM	 	 	Peak Integrated by Software
PB167871BS	PS030057.D	DICHLORPROP #2	yogesh	5/7/2025 9:51:46 AM	 	 	Peak Integrated by Software
PB167871BS	PS030057.D	DINOSEB	yogesh	5/7/2025 9:51:46 AM	 	 	Peak Integrated by Software
PB167871BS	PS030057.D	MCPA #2	yogesh	5/7/2025 9:51:46 AM	 	 	Peak Integrated by Software
PB167871BS	PS030057.D	Picloram #2	yogesh	5/7/2025 9:51:46 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030059.D	2,4,5-T	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software

Manual Integration Report

Sequence:	PS050625	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030059.D	2,4-D #2	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030059.D	Dalapon	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030059.D	Dalapon #2	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030059.D	DCPA #2	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030059.D	DICAMBA #2	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030059.D	DICHLORPROP #2	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030059.D	DINOSEB	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030059.D	MCPP	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030059.D	Picloram #2	yogesh	5/7/2025 9:51:48 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	2,4-DB	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	2,4-DB #2	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	3,5-DICHLOROBENZOI C ACID #2	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	4-Nitrophenol	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software

Manual Integration Report

Sequence:	PS050625	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1901-08MS	PS030063.D	4-Nitrophenol #2	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	Dalapon #2	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	DCPA #2	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	DICHLORPROP #2	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	MCPA #2	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	MCPP	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MS	PS030063.D	Picloram #2	yogesh	5/7/2025 9:51:50 AM	 	 	Peak Integrated by Software
Q1901-08MSD	PS030064.D	2,4-DB	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software
Q1901-08MSD	PS030064.D	2,4-DB #2	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software
Q1901-08MSD	PS030064.D	2,4-DCAA	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software
Q1901-08MSD	PS030064.D	4-Nitrophenol #2	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software
Q1901-08MSD	PS030064.D	Dalapon #2	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software
Q1901-08MSD	PS030064.D	DCPA #2	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software

Manual Integration Report

Sequence:

PS050625

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1901-08MSD	PS030064.D	DICHLORPROP #2	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software
Q1901-08MSD	PS030064.D	MCPA #2	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software
Q1901-08MSD	PS030064.D	MCPP	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software
Q1901-08MSD	PS030064.D	Picloram #2	yogesh	5/7/2025 9:51:53 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030070.D	DCPA #2	yogesh	5/7/2025 9:51:54 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030070.D	Picloram #2	yogesh	5/7/2025 9:51:54 AM	 	 	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM
SubDirectory	PS042325	HP Acquire Method	HP Processing Method ps042325 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24066 PP24069,PP24070		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029917.D	23 Apr 2025 10:13	AR\AJ	Ok
2	I.BLK	PS029918.D	23 Apr 2025 10:37	AR\AJ	Ok
3	HSTDICC200	PS029919.D	23 Apr 2025 11:01	AR\AJ	Ok,M
4	HSTDICC500	PS029920.D	23 Apr 2025 11:25	AR\AJ	Ok,M
5	HSTDICC750	PS029921.D	23 Apr 2025 11:49	AR\AJ	Ok,M
6	HSTDICC1000	PS029922.D	23 Apr 2025 12:13	AR\AJ	Ok,M
7	HSTDICC1500	PS029923.D	23 Apr 2025 12:37	AR\AJ	Ok,M
8	HSTDICV750	PS029924.D	23 Apr 2025 13:01	AR\AJ	Ok,M
9	I.BLK	PS029925.D	23 Apr 2025 13:25	AR\AJ	Ok
10	HSTDCCC750	PS029926.D	23 Apr 2025 13:50	AR\AJ	Ok,M
11	Q1842-06	PS029927.D	23 Apr 2025 14:14	AR\AJ	Ok
12	Q1842-12	PS029928.D	23 Apr 2025 14:38	AR\AJ	Ok
13	Q1842-18	PS029929.D	23 Apr 2025 15:02	AR\AJ	Ok
14	Q1842-24	PS029930.D	23 Apr 2025 15:26	AR\AJ	Ok
15	Q1842-30	PS029931.D	23 Apr 2025 15:50	AR\AJ	Ok
16	Q1842-36	PS029932.D	23 Apr 2025 16:14	AR\AJ	Ok
17	Q1842-42	PS029933.D	23 Apr 2025 16:38	AR\AJ	Ok
18	I.BLK	PS029934.D	23 Apr 2025 17:02	AR\AJ	Ok
19	HSTDCCC750	PS029935.D	23 Apr 2025 17:26	AR\AJ	Ok,M
20	Q1842-06MS	PS029936.D	23 Apr 2025 18:14	AR\AJ	Ok,M
21	Q1842-06MSD	PS029937.D	23 Apr 2025 18:38	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM
SubDirectory	PS042325	HP Acquire Method	HP Processing Method ps042325 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

22	PB167675BS	PS029938.D	23 Apr 2025 19:02	AR\AJ	Ok,M
23	PB167701BL	PS029939.D	23 Apr 2025 19:27	AR\AJ	Ok
24	PB167701BS	PS029940.D	23 Apr 2025 19:51	AR\AJ	Ok,M
25	PB167660TB	PS029941.D	23 Apr 2025 20:15	AR\AJ	Ok
26	I.BLK	PS029942.D	23 Apr 2025 20:39	AR\AJ	Ok
27	HSTDCCC750	PS029943.D	23 Apr 2025 21:03	AR\AJ	Ok,M
28	PB167710BL	PS029944.D	23 Apr 2025 21:51	AR\AJ	Ok
29	PB167710BS	PS029945.D	23 Apr 2025 22:15	AR\AJ	Ok,M
30	Q1850-01	PS029946.D	23 Apr 2025 22:39	AR\AJ	Ok
31	Q1852-01	PS029947.D	23 Apr 2025 23:03	AR\AJ	Ok
32	Q1852-03	PS029948.D	23 Apr 2025 23:27	AR\AJ	Ok
33	Q1852-05	PS029949.D	23 Apr 2025 23:51	AR\AJ	Ok,M
34	Q1852-07	PS029950.D	24 Apr 2025 00:15	AR\AJ	Ok,M
35	Q1852-07MS	PS029951.D	24 Apr 2025 00:39	AR\AJ	Ok,M
36	Q1852-07MSD	PS029952.D	24 Apr 2025 01:03	AR\AJ	Ok,M
37	I.BLK	PS029953.D	24 Apr 2025 01:27	AR\AJ	Ok
38	HSTDCCC750	PS029954.D	24 Apr 2025 04:15	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS050625

Review By	Abdul	Review On	5/6/2025 3:18:05 PM
Supervise By	yogesh	Supervise On	5/7/2025 9:52:52 AM
SubDirectory	PS050625	HP Acquire Method	HP Processing Method ps042325 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24066 PP24069,PP24070		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS030050.D	06 May 2025 08:34	AR\AJ	Ok
2	I.BLK	PS030051.D	06 May 2025 08:58	AR\AJ	Ok
3	HSTDCCC750	PS030052.D	06 May 2025 09:50	AR\AJ	Ok,NS
4	Q1929-03	PS030053.D	06 May 2025 11:27	AR\AJ	Ok,NS
5	Q1929-07	PS030054.D	06 May 2025 12:09	AR\AJ	Ok
6	Q1929-11	PS030055.D	06 May 2025 12:33	AR\AJ	Ok
7	PB167871BL	PS030056.D	06 May 2025 13:03	AR\AJ	Ok
8	PB167871BS	PS030057.D	06 May 2025 13:27	AR\AJ	Ok,NS
9	I.BLK	PS030058.D	06 May 2025 13:51	AR\AJ	Ok
10	HSTDCCC750	PS030059.D	06 May 2025 14:15	AR\AJ	Ok,NS
11	PB167774TB	PS030060.D	06 May 2025 14:40	AR\AJ	Ok
12	PB167815TB	PS030061.D	06 May 2025 15:04	AR\AJ	Ok
13	Q1901-08	PS030062.D	06 May 2025 15:28	AR\AJ	Ok
14	Q1901-08MS	PS030063.D	06 May 2025 15:52	AR\AJ	Ok,NS
15	Q1901-08MSD	PS030064.D	06 May 2025 16:16	AR\AJ	Ok,NS
16	Q1901-09	PS030065.D	06 May 2025 16:40	AR\AJ	Ok
17	Q1901-10	PS030066.D	06 May 2025 17:04	AR\AJ	Ok
18	Q1901-11	PS030067.D	06 May 2025 17:28	AR\AJ	Ok
19	Q1907-02	PS030068.D	06 May 2025 17:52	AR\AJ	Ok
20	I.BLK	PS030069.D	06 May 2025 18:16	AR\AJ	Ok
21	HSTDCCC750	PS030070.D	06 May 2025 18:40	AR\AJ	Ok,NS

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM
SubDirectory	PS042325	HP Acquire Method	HP Processing Method ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029917.D	23 Apr 2025 10:13		AR\AJ	Ok
2	I.BLK	I.BLK	PS029918.D	23 Apr 2025 10:37		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029919.D	23 Apr 2025 11:01		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS029920.D	23 Apr 2025 11:25		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS029921.D	23 Apr 2025 11:49		AR\AJ	Ok,M
6	HSTDICC1000	HSTDICC1000	PS029922.D	23 Apr 2025 12:13		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS029923.D	23 Apr 2025 12:37		AR\AJ	Ok,M
8	HSTDICV750	ICVPS042325	PS029924.D	23 Apr 2025 13:01		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS029925.D	23 Apr 2025 13:25		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS029926.D	23 Apr 2025 13:50		AR\AJ	Ok,M
11	Q1842-06	PL-714-COMP-08	PS029927.D	23 Apr 2025 14:14		AR\AJ	Ok
12	Q1842-12	PL-714-COMP-09	PS029928.D	23 Apr 2025 14:38		AR\AJ	Ok
13	Q1842-18	PL-714-COMP-10	PS029929.D	23 Apr 2025 15:02		AR\AJ	Ok
14	Q1842-24	PL-714-COMP-11	PS029930.D	23 Apr 2025 15:26		AR\AJ	Ok
15	Q1842-30	PL-714-COMP-12	PS029931.D	23 Apr 2025 15:50		AR\AJ	Ok
16	Q1842-36	PL-714-COMP-13	PS029932.D	23 Apr 2025 16:14		AR\AJ	Ok
17	Q1842-42	PL-714-COMP-14	PS029933.D	23 Apr 2025 16:38		AR\AJ	Ok
18	I.BLK	I.BLK	PS029934.D	23 Apr 2025 17:02		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM
SubDirectory	PS042325	HP Acquire Method	HP Processing Method ps042325 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

19	HSTDCCC750	HSTDCCC750	PS029935.D	23 Apr 2025 17:26		AR\AJ	Ok,M
20	Q1842-06MS	PL-714-COMP-08MS	PS029936.D	23 Apr 2025 18:14		AR\AJ	Ok,M
21	Q1842-06MSD	PL-714-COMP-08MSD	PS029937.D	23 Apr 2025 18:38	RPD Fail	AR\AJ	Ok,M
22	PB167675BS	PB167675BS	PS029938.D	23 Apr 2025 19:02		AR\AJ	Ok,M
23	PB167701BL	PB167701BL	PS029939.D	23 Apr 2025 19:27		AR\AJ	Ok
24	PB167701BS	PB167701BS	PS029940.D	23 Apr 2025 19:51		AR\AJ	Ok,M
25	PB167660TB	PB167660TB	PS029941.D	23 Apr 2025 20:15		AR\AJ	Ok
26	I.BLK	I.BLK	PS029942.D	23 Apr 2025 20:39		AR\AJ	Ok
27	HSTDCCC750	HSTDCCC750	PS029943.D	23 Apr 2025 21:03		AR\AJ	Ok,M
28	PB167710BL	PB167710BL	PS029944.D	23 Apr 2025 21:51		AR\AJ	Ok
29	PB167710BS	PB167710BS	PS029945.D	23 Apr 2025 22:15		AR\AJ	Ok,M
30	Q1850-01	CONCRETE-PILE-N-C	PS029946.D	23 Apr 2025 22:39		AR\AJ	Ok
31	Q1852-01	ETGI-354	PS029947.D	23 Apr 2025 23:03		AR\AJ	Ok
32	Q1852-03	72-11977	PS029948.D	23 Apr 2025 23:27		AR\AJ	Ok
33	Q1852-05	ETGI-278	PS029949.D	23 Apr 2025 23:51		AR\AJ	Ok,M
34	Q1852-07	72-12013	PS029950.D	24 Apr 2025 00:15		AR\AJ	Ok,M
35	Q1852-07MS	72-12013MS	PS029951.D	24 Apr 2025 00:39	Some compound recovery fail	AR\AJ	Ok,M
36	Q1852-07MSD	72-12013MSD	PS029952.D	24 Apr 2025 01:03	Some compound recovery fail, RPD fail.	AR\AJ	Ok,M
37	I.BLK	I.BLK	PS029953.D	24 Apr 2025 01:27		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS042325

Review By	Abdul	Review On	4/24/2025 8:51:25 AM
Supervise By	mohammad	Supervise On	4/26/2025 2:18:24 AM
SubDirectory	PS042325	HP Acquire Method	HP Processing Method ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

38	HSTDCCC750	HSTDCCC750	PS029954.D	24 Apr 2025 04:15	All comp fail in 2nd column Except comp#1,6,15,16	AR\AJ	Ok,M
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M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS050625

Review By	Abdul	Review On	5/6/2025 3:18:05 PM
Supervise By	yogesh	Supervise On	5/7/2025 9:52:52 AM
SubDirectory	PS050625	HP Acquire Method	HP Processing Method ps042325 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC Internal Standard/PEM	PP24066
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS030050.D	06 May 2025 08:34		AR\AJ	Ok
2	I.BLK	I.BLK	PS030051.D	06 May 2025 08:58		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS030052.D	06 May 2025 09:50		AR\AJ	Ok,NS
4	Q1929-03	WC-A4-02-C	PS030053.D	06 May 2025 11:27		AR\AJ	Ok,NS
5	Q1929-07	WC-A1-03-C	PS030054.D	06 May 2025 12:09		AR\AJ	Ok
6	Q1929-11	WC-A1-04-C	PS030055.D	06 May 2025 12:33		AR\AJ	Ok
7	PB167871BL	PB167871BL	PS030056.D	06 May 2025 13:03		AR\AJ	Ok
8	PB167871BS	PB167871BS	PS030057.D	06 May 2025 13:27		AR\AJ	Ok,NS
9	I.BLK	I.BLK	PS030058.D	06 May 2025 13:51		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS030059.D	06 May 2025 14:15		AR\AJ	Ok,NS
11	PB167774TB	PB167774TB	PS030060.D	06 May 2025 14:40		AR\AJ	Ok
12	PB167815TB	PB167815TB	PS030061.D	06 May 2025 15:04		AR\AJ	Ok
13	Q1901-08	B-167-SB01	PS030062.D	06 May 2025 15:28		AR\AJ	Ok
14	Q1901-08MS	B-167-SB01MS	PS030063.D	06 May 2025 15:52	Comp#5,8 recovery fail	AR\AJ	Ok,NS
15	Q1901-08MSD	B-167-SB01MSD	PS030064.D	06 May 2025 16:16	Comp#5,6,8 recovery fail , RPD Fail	AR\AJ	Ok,NS
16	Q1901-09	B-170-SB01	PS030065.D	06 May 2025 16:40		AR\AJ	Ok
17	Q1901-10	B-167-SB02	PS030066.D	06 May 2025 17:04		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS050625

Review By	Abdul	Review On	5/6/2025 3:18:05 PM
Supervise By	yogesh	Supervise On	5/7/2025 9:52:52 AM
SubDirectory	PS050625	HP Acquire Method	HP Processing Method ps042325 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068		
CCC Internal Standard/PEM	PP24066		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24069,PP24070		

18	Q1901-11	B-170-SB02	PS030067.D	06 May 2025 17:28		AR\AJ	Ok
19	Q1907-02	CO-8R-WC	PS030068.D	06 May 2025 17:52		AR\AJ	Ok
20	I.BLK	I.BLK	PS030069.D	06 May 2025 18:16		AR\AJ	Ok
21	HSTDCCC750	HSTDCCC750	PS030070.D	06 May 2025 18:40		AR\AJ	Ok,NS

M : Manual Integration

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pipette ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 05/01/2025 **Time :** 16:40

End Prep Date : 05/02/2025 **Time :** 10:30

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : *JP*

Supervisor By : *RM*

Standardized 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	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. Particle size reduction is not required. q1935-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/02/25 12:00	<i>JP</i> / PCYD AOCM	<i>SIB</i> RS / EXT
	Preparation Group	Analysis Group

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
PB167815TB	LEB815	19	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q1865-08	SOM-25-00051	01	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1916-04	WC-12	02	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1917-04	MH-JJ	03	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q1922-04	MH-R	04	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
Q1922-08	MH-S	05	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q1925-01	AUD-25-0068	06	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1925-02	AUD-25-0069	07	100.01	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1925-03	AUD-25-0070	08	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1928-04	MH-Q	09	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1929-03	WC-AA-02-C	10	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-1
Q1929-07	WC-AA-03-C	11	100.03	2000	N/A	N/A	N/A	11.5	1.5	T-2
Q1929-11	WC-AA-04-C	12	100.02	2000	N/A	N/A	N/A	12.0	1.0	T-2
Q1932-02	COMP-4	13	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q1932-04	COMP-5	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q1932-06	COMP-6	15	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q1932-08	COMP-7	16	100.04	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q1935-04	MH-NN	17	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1935-08	MH-MM	18	100.01	2000	N/A	N/A	N/A	3.0	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167815TB	LEB815	N/A	N/A	N/A	N/A	N/A	N/A
Q1865-08	SOM-25-00051	N/A	N/A	N/A	N/A	100	N/A
Q1916-04	WC-12	N/A	N/A	N/A	N/A	100	N/A
Q1917-04	MH-JJ	N/A	N/A	N/A	N/A	100	N/A
Q1922-04	MH-R	N/A	N/A	N/A	N/A	100	N/A
Q1922-08	MH-S	N/A	N/A	N/A	N/A	100	N/A
Q1925-01	AUD-25-0068	N/A	N/A	N/A	N/A	100	N/A
Q1925-02	AUD-25-0069	N/A	N/A	N/A	N/A	100	N/A
Q1925-03	AUD-25-0070	N/A	N/A	N/A	N/A	100	N/A
Q1928-04	MH-Q	N/A	N/A	N/A	N/A	100	N/A
Q1929-03	WC-AA-02-C	N/A	N/A	N/A	N/A	100	N/A
Q1929-07	WC-AA-03-C	N/A	N/A	N/A	N/A	100	N/A
Q1929-11	WC-AA-04-C	N/A	N/A	N/A	N/A	100	N/A
Q1932-02	COMP-4	N/A	N/A	N/A	N/A	100	N/A
Q1932-04	COMP-5	N/A	N/A	N/A	N/A	100	N/A
Q1932-06	COMP-6	N/A	N/A	N/A	N/A	100	N/A
Q1932-08	COMP-7	N/A	N/A	N/A	N/A	100	N/A
Q1935-04	MH-NN	N/A	N/A	N/A	N/A	100	N/A
Q1935-08	MH-MM	N/A	N/A	N/A	N/A	100	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
PB167815TB	LEB815	N/A	N/A	N/A	N/A	#1	4.94
Q1865-08	SOM-25-00051	5.02	96.5	7.6	2.5	#1	4.94
Q1916-04	WC-12	5.01	96.5	7.6	2.5	#1	4.94
Q1917-04	MH-JJ	5.03	96.5	6.0	2.0	#1	4.94
Q1922-04	MH-R	5.04	96.5	6.0	2.0	#1	4.94
Q1922-08	MH-S	5.03	96.5	5.8	1.5	#1	4.94
Q1925-01	AUD-25-0068	5.02	96.5	9.5	4.0	#1	4.94
Q1925-02	AUD-25-0069	5.01	96.5	9.0	4.0	#1	4.94
Q1925-03	AUD-25-0070	5.02	96.5	9.3	4.0	#1	4.94
Q1928-04	MH-Q	5.02	96.5	6.6	2.5	#1	4.94
Q1929-03	WC-AA-02-C	5.02	96.5	12.5	4.5	#1	4.94
Q1929-07	WC-AA-03-C	5.01	96.5	12.0	4.5	#1	4.94
Q1929-11	WC-AA-04-C	5.03	96.5	12.5	4.5	#1	4.94
Q1932-02	COMP-4	5.03	96.5	8.6	3.5	#1	4.94
Q1932-04	COMP-5	5.04	96.5	8.6	3.5	#1	4.94
Q1932-06	COMP-6	5.03	96.5	8.6	3.5	#1	4.94
Q1932-08	COMP-7	5.02	96.5	9.0	4.0	#1	4.94
Q1935-04	MH-NN	5.01	96.5	6.4	3.0	#1	4.94
Q1935-08	MH-MM	5.02	96.5	5.8	2.0	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tcip q1928

WorkList ID : 189257

Department : TCLP Extraction

Date : 05-01-2025 11:12:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1865-08	SOM-25-00051	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/23/2025	1311
Q1916-04	WC-12	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/30/2025	1311
Q1917-04	MH-JJ	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/30/2025	1311
Q1922-04	MH-R	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/30/2025	1311
Q1922-08	MH-S	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/30/2025	1311
Q1925-01	AUD-25-0068	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/30/2025	1311
Q1925-02	AUD-25-0069	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/30/2025	1311
Q1925-03	AUD-25-0070	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/30/2025	1311
Q1928-04	MH-Q	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/01/2025	1311
Q1929-03	WC-AA-02-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	L41	05/29/2025	1311
Q1929-07	WC-AA-03-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	L41	05/30/2025	1311
Q1929-11	WC-AA-04-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	L41	05/30/2025	1311
Q1932-02	COMP-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/01/2025	1311
Q1932-04	COMP-5	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/01/2025	1311
Q1932-06	COMP-6	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/01/2025	1311
Q1932-08	COMP-7	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/01/2025	1311
Q1935-04	MH-NN	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/01/2025	1311
Q1935-08	MH-MM	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/01/2025	1311

Date/Time 05/01/25 14:30

Raw Sample Received by: SP00001

Raw Sample Relinquished by: Z-C (SW)

Date/Time 05/01/25 17:00

Raw Sample Received by: Z-C (SW)

Raw Sample Relinquished by: SP00001

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,7

Extraction Start Date : 05/05/2025

Extraction Start Time : 08:50

Extraction End Date : 05/05/2025

Extraction End Time : 15:55

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24484
Surrogate	1.0ML	5000 PPB	PP24424
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	E3881
Acidified Na2SO4	N/A	EP2576
12N H2SO4	N/A	EP2605
NAOH 6N	N/A	EP2606
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14622
Diazomethane	N/A	EP2608
Hexane	N/A	E3933
NACL	N/A	M4459
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted with 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS723.

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
5/5/25	RS (E4-Lab.)	R. P. 12/12/25 Lab
16:00	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 05/05/2025

Sample ID	Client Sample ID	Test	g (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167774TB	PB167774TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-1
PB167815TB	PB167815TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			2
PB167871BL	HBLK871	TCLP Herbicide	1000	6	RUPESH	ritesh	10			3
PB167871BS	HLCS871	TCLP Herbicide	1000	6	RUPESH	ritesh	10			4
Q1901-08	B-167-SB01	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		5
Q1901-08MS	B-167-SB01MS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		6
Q1901-08MS D	B-167-SB01MSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		7
Q1901-09	B-170-SB01	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		8
Q1901-10	B-167-SB02	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		9
Q1901-11	B-170-SB02	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		10
Q1907-02	CO-8R-WC	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		11
Q1929-03	WC-A4-02-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		12
Q1929-07	WC-A1-03-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		13
Q1929-11	WC-A1-04-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		14

* Extracts relinquished on the same date as received.

167864
9:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1954 WorkList ID : 189317 Department : Extraction Date : 05-05-2025 08:53:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1954-01	BC260874-1-1	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/02/2025	8082A
Q1954-02	BC260874-1-2	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/02/2025	8082A

Date/Time 5/5/25 8:35
Raw Sample Received by: RJ (EAT 646)
Raw Sample Relinquished by: CP SM

Date/Time 5/5/25 9:10
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (EAT 646)

Prep Standard - Chemical Standard Summary

Order ID : Q1929

Test : TCLP Herbicide

Prepbatch ID : PB167871,

Sequence ID/Qc Batch ID: ps050625,

Standard ID :

EP2576,EP2605,EP2606,PP24061,PP24062,PP24064,PP24065,PP24066,PP24067,PP24068,PP24069,PP24070,PP24424,PP24484,

Chemical ID :

E3370,E3551,E3554,E3657,E3826,E3881,E3902,E3929,M5173,M6041,P10549,P11180,P11181,P12619,P12629,P12686,P12708,P12709,P13514,P13515,P13532,P13533,P13534,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	EP2576	01/06/2025	06/02/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/06/2025
<u>FROM</u>	100.00000ml of E3370 + 150.00000ml of M5173 + 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>
3883	12N H2SO4 solution	EP2605	04/21/2025	10/21/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 04/21/2025
<u>FROM</u> 333.00000ml of M6041 + 667.00000ml of W3112 = 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>
3884	6 N NAOH	EP2606	04/21/2025	10/21/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 04/21/2025
<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	PP24061	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 0.20000ml of P10549 + 1.00000ml of P11180 + 1.00000ml of P12619 + 1.00000ml of P12629 + 1.00000ml of P12686 + 95.80000ml of E3826 = 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>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24062	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 1.00000ml of P11181 + 1.00000ml of P12708 + 1.00000ml of P12709 + 97.00000ml of E3826 = 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	PP24064	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 0.25000ml of E3826 + 0.75000ml of PP24061 = 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	PP24065	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24061 = 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	PP24066	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24065 = 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>
1455	500 PPB Herb MIX STD	PP24067	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24061 = 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>
1456	200 PPB Herb MIX STD	PP24068	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.90000ml of E3826 + 0.10000ml of PP24061 = 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>
1854	1000 PPB HERB MIX ICV STD	PP24069	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24062 = 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>
1691	750 PPB ICV HERB STD	PP24070	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24069 = 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>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP24424	03/26/2025	09/18/2025	Abdul Mirza	None	None	Yogesh Patel
								04/02/2025

FROM 1.25000ml of P13514 + 1.25000ml of P13515 + 97.50000ml of E3902 = 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>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP24484	04/23/2025	10/23/2025	Abdul Mirza	None	None	Yogesh Patel
								05/03/2025

FROM 0.50000ml of P13534 + 1.00000ml of P13532 + 1.00000ml of P13533 + 47.75000ml of E3929 = Final Quantity: 50.000 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	07/17/2025	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	07/01/2025	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 #
Seidler Chemical	BA-9335-02 / Iso-Octane (2,2,4-Trimethypentane) Ultra Resi-Analyzed Grade	63160	11/05/2025	08/09/2023 / Rajesh	08/09/2023 / Rajesh	E3554

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)	24G1962003	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC04977-3 / Ether, Anhydrous, Glass Distilled, HRGC/HPLC, 4L	242789	08/14/2025	02/14/2025 / Rajesh	01/06/2025 / Rajesh	E3881

CHEMICAL RECEIPT LOG BOOK

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)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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)	24H2762008	04/18/2027	04/18/2025 / RUPESH	04/16/2025 / RUPESH	E3929

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)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

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)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0170243	05/26/2025	11/26/2024 / Ankita	04/06/2021 / dhaval	P10549

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	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11180

CHEMICAL RECEIPT LOG BOOK

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	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11181

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	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12619

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	A192429	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12629

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	A0199844	05/26/2025	11/26/2024 / Ankita	07/24/2023 / Abdul	P12686

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	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

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	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

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	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

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	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

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	09/26/2025	03/26/2025 / Abdul	08/16/2024 / yogesh	P13514

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	09/26/2025	03/26/2025 / Abdul	08/16/2024 / yogesh	P13515

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	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13532

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	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13532

CHEMICAL RECEIPT LOG BOOK

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	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13533

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	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13533

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	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13534

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	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13534

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

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,

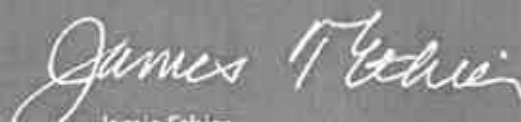
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation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



Date of Release: 6/9/2023
Name: 2,2,4-Trimethylpentane [Isooctane]
OmniSolv®
Item No: TX1389 all size codes
Lot / Batch No: 63160
Country of Origin: Germany

Characteristic	Requirement		Results	Units
	Min.	Max.		
Assay (GC)	99.5		> 99.99	%
Capillary ECD responsive substances (as PCNB)		5	0.24	ng/L
Color (APHA)		10	< 10	
Evaporation residue		1	< 0.5	ppm
Filtered through 0.2 µm filter			Passes test	
Fluorescence (as quinine base)		250	71	ppt
Form			Clear liquid	
Infrared Spectrum			Conforms	
Refractive index (at 20°C)			1.3915	
UV Abs. at 200 nm		1.00	0.137	AU
UV Abs. at 220 nm		0.05	0.024	AU
UV Abs. at 230 nm		0.02	0.003	AU
UV Abs. at 250 nm		0.005	0.003	AU
UV Abs. at 270 nm		0.005	0.002	AU
UV Abs. at 300 nm		0.005	0.004	AU
UV Cut-off		200	191.1	nm
Water (H ₂ O)		0.01	0.001	%

Michael Hutchinson,

Quality Control Manager

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

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

Recd by RP on 8/9/23

E3554



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.

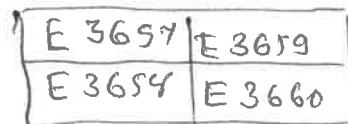
This document has been electronically produced and is valid without a signature.

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.



n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
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)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

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

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

E 3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT - 0120633

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

Catalog Number	E199	Quality Test / Release Date	08/02/2024
Lot Number	242789	Expiration Date	Jun/2025
Description	ETHYL ETHER, PESTICIDE GRADE		
Country of Origin	Mexico		
Chemical Origin	Organic - synthetic		
BSE/TSE Comment	This product was derived from synthetic raw materials and the manufacturing process excluded contamination with any animal products.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid free of suspended matter
ASSAY	%	>= 99.5	99.97
COLOR	APHA	<= 10	5
EVAPORATION RESIDUE	ppm	<= 3	0.2
GC-ECD ANALYSIS	pg/ml	<= 10	<1
OPTICAL ABS AT 218 NM	ABSORBANCE UNITS	<= 1.00	0.19
OPTICAL ABS AT 250 NM	ABSORBANCE UNITS	<= 0.08	0.05
OPTICAL ABS AT 270 NM	ABSORBANCE UNITS	<= 0.02	0.01
OPTICAL ABS AT 300 NM	ABSORBANCE UNITS	<= 0.01	0.002
OPTICAL ABS AT 350 NM	ABSORBANCE UNITS	<= 0.01	<0.001
PEROXIDE	ppm	<= 5	<1
PRESERVATIVE - ETHANOL	%	Inclusive Between 1.5 - 2.5	1.8
WATER (H2O)	%	<= 0.08	0.003

Kalyan Paruchuri

Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

E 3881

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
 If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

E 3902

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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

E 3929

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



M 6041-4b
MS

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

 **avantor™**

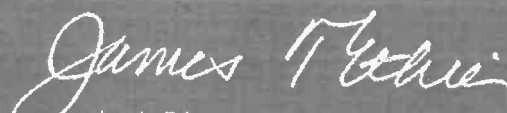


Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory, Research, or Manufacturing Use

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:

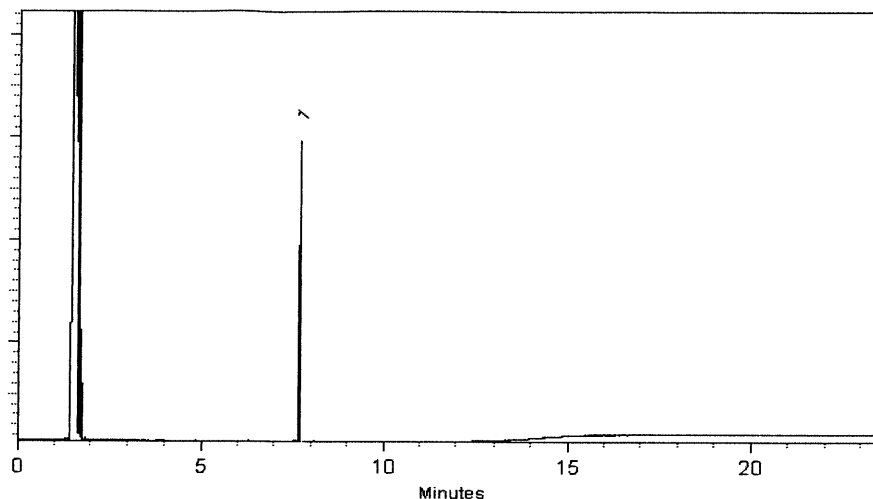
250°C

Det. Temp:

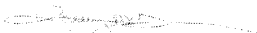
330°C

Det. Type:

FID

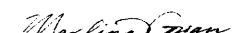


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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
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P11186
—
AR
01/02/21

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:

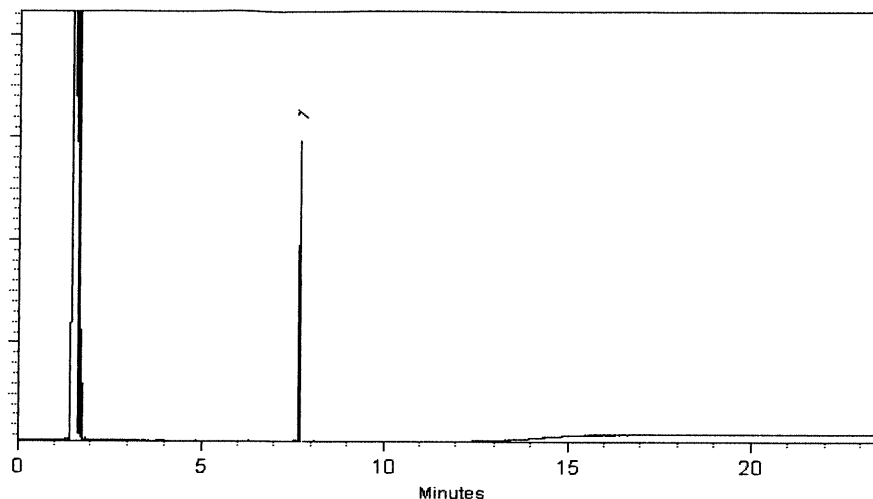
250°C

Det. Temp:

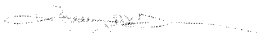
330°C

Det. Type:

FID

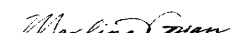


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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



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Fax: (814)353-1309

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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
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P11186
AR
01/02/21



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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:

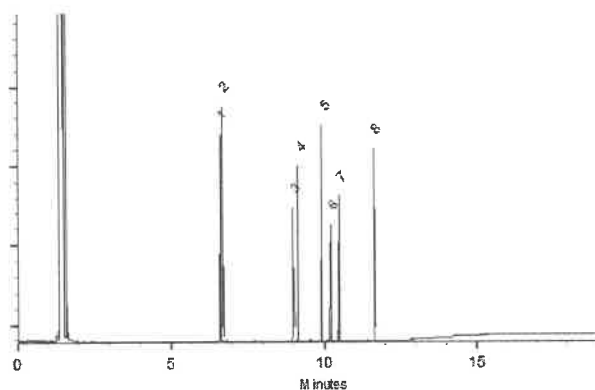
250°C

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



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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.:** A0192429

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 : December 31, 2029 **Storage:** 10°C or colder

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

P12626 / 5
P12630
7/5/2023

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	11705400	99%	201.6 µg/mL	+/- 3.4204
2	Dichlorprop methyl ester	57153-17-0	11672100	99%	201.4 µg/mL	+/- 3.4170
3	2,4-D methyl ester	1928-38-7	10048000	99%	201.2 µg/mL	+/- 3.4136
4	2,4,5-TP (silvex) methyl ester	4841-20-7	6364900	99%	201.2 µg/mL	+/- 3.4136
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	200.7 µg/mL	+/- 3.4052
6	Dinoseb methyl ether	6099-79-2	12914300	99%	200.8 µg/mL	+/- 3.4068
7	2,4-DB methyl ester	18625-12-2	12542000	99%	201.0 µg/mL	+/- 3.4102

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

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

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:

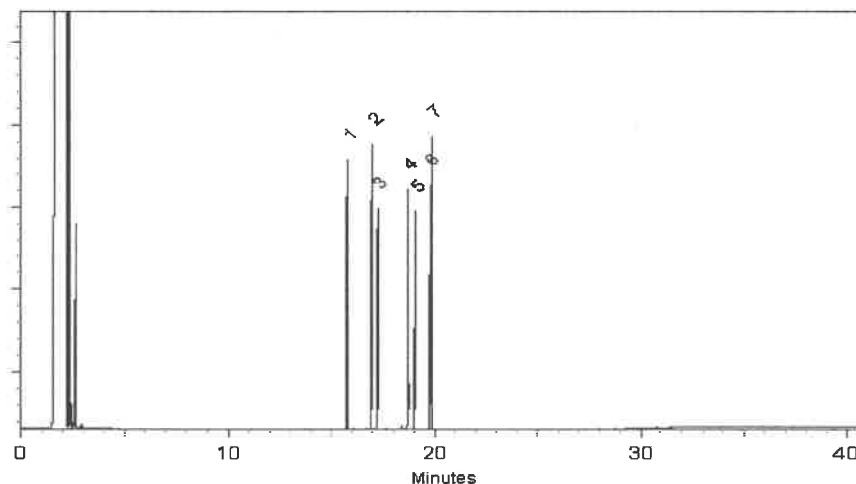
FID

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.


Penelope Riglin - Operations Tech I

Date Mixed: 09-Dec-2022

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 12-Dec-2022

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



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



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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. : 32059 **Lot No.:** A0199844

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

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

P 12685 / (S)
↓
P 12689
↓
RAU= 7/24/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	MCPP (Mecoprop) methyl ester	23844-56-6	14546400	99%	20,035.0 µg/mL	+/- 360.1907
2	MCPA methyl ester	2436-73-9	SL201209	99%	20,055.0 µg/mL	+/- 360.5503

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

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

Quality Confirmation Test

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:

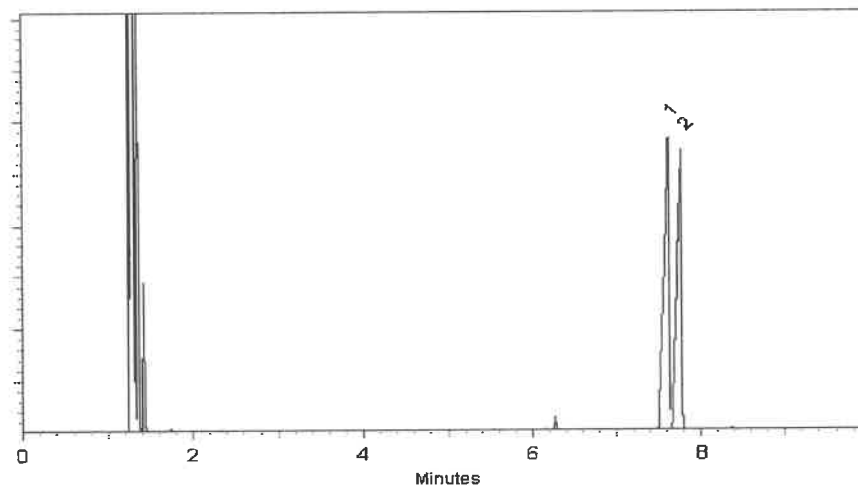
FID

Split Vent:

10 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.


Morgan Craighead - Mix Technician

Date Mixed: 12-Jul-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-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.

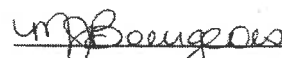
Expiration of Certification:

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

P12706 / (10)
↓
P12715
✓ 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

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.

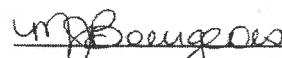
Expiration of Certification:

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

P12706 / (10)
↓
P12715
✓ 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



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. : 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.

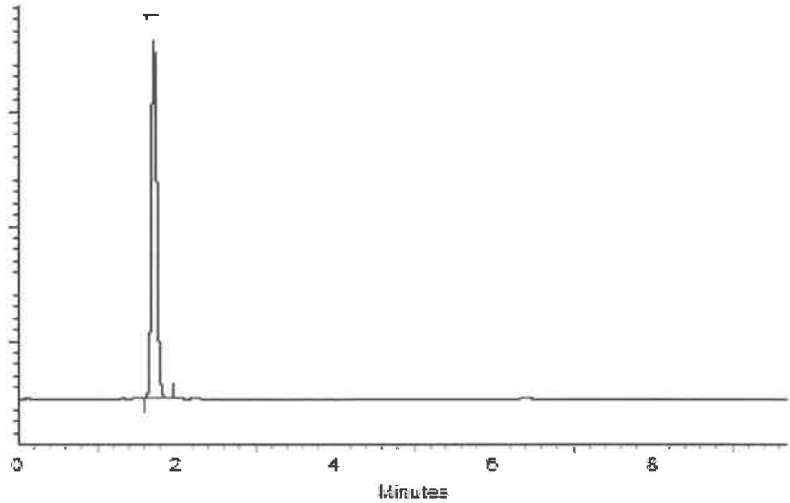
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

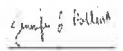


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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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.

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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:

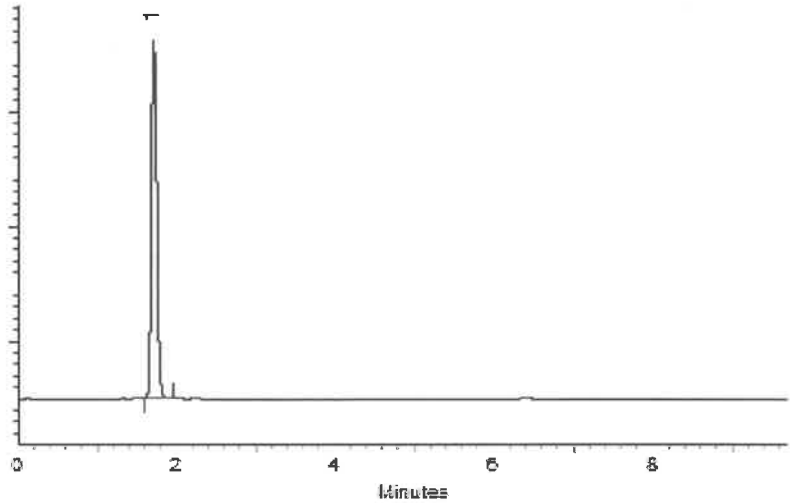
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

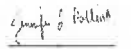


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.

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- 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.
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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.

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

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.

P13520
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P13536 } (18)

BACF
9/4/2024

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard
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Expiration Date: 30-Sep-2026

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chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
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pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
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P13520
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P13520
↓
P13536
18
BACF
9/4/2024



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:

Q1929

COC Number: 2042113

Page 1 of 2

CLIENT INFORMATION

COMPANY: ENTACT, LLC
ADDRESS: 150 Bay Street, Suite 806
CITY: Jersey City STATE: NJ ZIP: 07302
ATTENTION: Austin Farmerie
PHONE: 570-886-0442 FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY
PROJECT #: E9309 LOCATION: Brooklyn, NY
PROJECT MANAGER: Austin Farmerie
E-MAIL: afarmerie@entact.com
PHONE: 412-716-1366 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

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

DATA TURNAROUND INFORMATION

FAX: 3 DAYS*
HARD COPY: 3 DAYS*
EDD 3 DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	E	E	E	E	E	E	E	E	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	
1.	WC-A4-02-G	Soil		X	4/29	12:00	1									
2.	WC-A4-02-C	Soil	X		4/29	12:00	11	X	X	X	X	X	X	X	X	
3.	WC-A1-03-G	Soil		X	4/30	12:00	1									
4.	WC-A1-03-C	Soil	X		4/30	12:00	11	X	X	X	X	X	X	X	X	
5.	WC-A1-04-G	Soil		X	4/30	12:00	1									
6.	WC-A1-04-C	Soil	X		4/30	12:00	11	X	X	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. Austin Farmerie	DATE/TIME 5/1 12:00	RECEIVED BY 	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 5.3°C ☐ Ice in Cooler? y
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY	Comments: Adjust factor H in gun #1
RELINQUISHED BY 3.	DATE/TIME 5/1/25 12:00	RECEIVED FOR LAB BY	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



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CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q1929

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Page 2 of 2

CLIENT INFORMATION

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ADDRESS: 150 Bay Street, Suite 806
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ATTENTION: Austin Farmerie
PHONE: 570-886-0442 FAX:

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PHONE: 412-716-1366 FAX:

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* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS 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

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

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	E	E	E	E	E	E	E			<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	WC-A4-02-G	Soil		X	4/29	12:00	1										
2.	WC-A4-02-C	Soil	X		4/29	12:00	11	X	X	X	X	X	X	X			
3.	WC-A1-03-G	Soil		X	4/30	12:00	1										
4.	WC-A1-03-C	Soil	X		4/30	12:00	11	X	X	X	X	X	X	X			
5.	WC-A1-04-G	Soil		X	4/30	12:00	1										
6.	WC-A1-04-C	Soil	X		4/30	12:00	11	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. Austin Farmerie	DATE/TIME 5/1/25 1030	RECEIVED BY 1. [Signature] 5/1/25 12:50	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 5.3°C ☐ Ice in Cooler? y
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.	Comments: Adjust factor +1 for new #1
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight ALLIANCE: ☐ Picked Up ☐ Overnight Page _____ of _____
			Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY

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