

## Cover Page

**Order ID :** Q2681

**Project ID :** NYPA

**Client :** Core Environmental Consultants and Services, Inc.

**Lab Sample Number**

Q2681-01

**Client Sample Number**

NYPA-POUCH-SPENT-CARBON

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: 7/31/2025

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:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(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 #: Q2681

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: SOHIL JODHANI

Date: 07/31/2025

## LAB CHRONICLE

**OrderID:** Q2681  
**Client:** Core Environmental Consultants and Services, Inc.  
**Contact:** Roland Scardino

**OrderDate:** 7/23/2025 2:59:39 PM  
**Project:** NYPA  
**Location:** D21

| LabID    | ClientID                | Matrix | Test           | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|-------------------------|--------|----------------|--------|-------------|-----------|-----------|----------|
| Q2681-01 | NYPA-POUCH-SPENT-CARBON | SOIL   |                |        | 07/23/25    |           |           | 07/23/25 |
|          |                         |        | PCB            | 8082A  |             | 07/24/25  | 07/25/25  |          |
|          |                         |        | TCLP Herbicide | 8151A  |             | 07/29/25  | 07/30/25  |          |



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

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q2681

**Order ID:** Q2681

**Client:** Core Environmental Consultants and Services, In

**Project ID:** NYPA

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| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|-----------|-----------|--------|-----------|---------------|---|-----|-----|-------|
|-----------|-----------|--------|-----------|---------------|---|-----|-----|-------|

Client ID :

**Total Concentration: 0.000**



# QC SUMMARY

### Surrogate Summary

SDG No.: Q2681

Client: Core Environmental Consultants and Ser

Analytical Method: 8151A

| Lab Sample ID    | Client ID              | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) |      |
|------------------|------------------------|-----------|--------|-------|--------|-------------|------|-----------|------|
|                  |                        |           |        |       |        |             |      | Low       | High |
| I.BLK-PS031274.D | PIBLK-PS031274.D       | 2,4-DCAA  | 1      | 500   | 404    | 81          |      | 61        | 136  |
|                  |                        | 2,4-DCAA  | 2      | 500   | 491    | 98          |      | 61        | 136  |
| I.BLK-PS031292.D | PIBLK-PS031292.D       | 2,4-DCAA  | 1      | 500   | 410    | 82          |      | 61        | 136  |
|                  |                        | 2,4-DCAA  | 2      | 500   | 476    | 95          |      | 61        | 136  |
| PB169037BL       | PB169037BL             | 2,4-DCAA  | 1      | 500   | 426    | 85          |      | 61        | 136  |
|                  |                        | 2,4-DCAA  | 2      | 500   | 466    | 93          |      | 61        | 136  |
| PB169037BS       | PB169037BS             | 2,4-DCAA  | 1      | 500   | 520    | 104         |      | 61        | 136  |
|                  |                        | 2,4-DCAA  | 2      | 500   | 504    | 101         |      | 61        | 136  |
| PB168986TB       | PB168986TB             | 2,4-DCAA  | 1      | 500   | 425    | 85          |      | 61        | 136  |
|                  |                        | 2,4-DCAA  | 2      | 500   | 465    | 93          |      | 61        | 136  |
| Q2681-01         | NYPA-POUCH-SPENT-CARBO | 2,4-DCAA  | 1      | 500   | 432    | 86          |      | 61        | 136  |
|                  |                        | 2,4-DCAA  | 2      | 500   | 470    | 94          |      | 61        | 136  |
| Q2681-01MS       | NYPA-POUCH-SPENT-CARBO | 2,4-DCAA  | 1      | 500   | 515    | 103         |      | 61        | 136  |
|                  |                        | 2,4-DCAA  | 2      | 500   | 548    | 110         |      | 61        | 136  |
| Q2681-01MSD      | NYPA-POUCH-SPENT-CARBO | 2,4-DCAA  | 1      | 500   | 512    | 102         |      | 61        | 136  |
|                  |                        | 2,4-DCAA  | 2      | 500   | 542    | 108         |      | 61        | 136  |
| I.BLK-PS031300.D | PIBLK-PS031300.D       | 2,4-DCAA  | 1      | 500   | 413    | 83          |      | 61        | 136  |
|                  |                        | 2,4-DCAA  | 2      | 500   | 491    | 98          |      | 61        | 136  |

### Matrix Spike/Matrix Spike Duplicate Summary

SW-846

|                 |                                                |                           |                   |
|-----------------|------------------------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q2681</u>                                   | <b>Analytical Method:</b> | <u>8151A</u>      |
| <b>Client:</b>  | <u>Core Environmental Consultants and Serv</u> | <b>DataFile :</b>         | <u>PS031298.D</u> |

|                | Parameter                | Spike             | Sample              | Result | Units | Rec | Rec  | RPD | RPD  | Low | Limits | RPD |
|----------------|--------------------------|-------------------|---------------------|--------|-------|-----|------|-----|------|-----|--------|-----|
|                |                          |                   | Result              |        |       |     | Qual |     | Qual |     | High   |     |
| Lab Sample ID: | Q2681-01MS<br>(Column 1) | Client Sample ID: | NYPA-POUCH-SPENT-C/ |        |       |     |      |     |      |     |        |     |
|                | 2,4-D                    | 50                | 0                   | 57.9   | ug/L  | 116 |      |     |      | 65  | 135    |     |
|                | 2,4,5-TP(Silvex)         | 50                | 0                   | 54.2   | ug/L  | 108 |      |     |      | 62  | 139    |     |
| Lab Sample ID: | Q2681-01MS<br>(Column 2) | Client Sample ID: | NYPA-POUCH-SPENT-C/ |        |       |     |      |     |      |     |        |     |
|                | 2,4-D                    | 50                | 0                   | 58.5   | ug/L  | 117 |      |     |      | 65  | 135    |     |
|                | 2,4,5-TP(Silvex)         | 50                | 0                   | 67.3   | ug/L  | 135 |      |     |      | 62  | 139    |     |

### Matrix Spike/Matrix Spike Duplicate Summary

SW-846

|                 |                                                |                           |                   |
|-----------------|------------------------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q2681</u>                                   | <b>Analytical Method:</b> | <u>8151A</u>      |
| <b>Client:</b>  | <u>Core Environmental Consultants and Serv</u> | <b>DataFile :</b>         | <u>PS031299.D</u> |

|                | Parameter                 | Spike             | Sample | Result              | Units | Rec | Rec  | RPD | RPD  | Low | Limits | RPD |
|----------------|---------------------------|-------------------|--------|---------------------|-------|-----|------|-----|------|-----|--------|-----|
|                |                           |                   | Result |                     |       |     | Qual |     | Qual |     | High   |     |
| Lab Sample ID: | Q2681-01MSD<br>(Column 1) | Client Sample ID: |        | NYPA-POUCH-SPENT-C/ |       |     |      |     |      |     |        |     |
|                | 2,4-D                     | 50                | 0      | 57.6                | ug/L  | 115 |      | 1   |      | 65  | 135    | 20  |
|                | 2,4,5-TP(Silvex)          | 50                | 0      | 53.8                | ug/L  | 108 |      | 0   |      | 62  | 139    | 20  |
| Lab Sample ID: | Q2681-01MSD<br>(Column 2) | Client Sample ID: |        | NYPA-POUCH-SPENT-C/ |       |     |      |     |      |     |        |     |
|                | 2,4-D                     | 50                | 0      | 58.3                | ug/L  | 117 |      | 0   |      | 65  | 135    | 20  |
|                | 2,4,5-TP(Silvex)          | 50                | 0      | 68.1                | ug/L  | 136 |      | 1   |      | 62  | 139    | 20  |

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

|                 |                                                |                           |                   |
|-----------------|------------------------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q2681</u>                                   | <b>Analytical Method:</b> | <u>8151A</u>      |
| <b>Client:</b>  | <u>Core Environmental Consultants and Serv</u> | <b>Datafile :</b>         | <u>PS031295.D</u> |

| Lab Sample ID            | Parameter        | Spike | Result | Units | Rec | RPD | Qual | RPD  |     | Limits |  | RPD |
|--------------------------|------------------|-------|--------|-------|-----|-----|------|------|-----|--------|--|-----|
|                          |                  |       |        |       |     |     |      | Qual | Low | High   |  |     |
| PB169037BS<br>(Column 1) | 2,4-D            | 5     | 4.70   | ug/L  | 94  |     |      |      | 83  | 130    |  |     |
|                          | 2,4,5-TP(Silvex) | 5     | 4.80   | ug/L  | 96  |     |      |      | 78  | 127    |  |     |
| PB169037BS<br>(Column 2) | 2,4-D            | 5     | 4.70   | ug/L  | 94  |     |      |      | 83  | 130    |  |     |
|                          | 2,4,5-TP(Silvex) | 5     | 4.80   | ug/L  | 96  |     |      |      | 78  | 127    |  |     |

4C

PESTICIDE METHOD BLANK SUMMARY

Client ID

PB169037BL

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Lab Sample ID: PB169037BL

Lab File ID: PS031294.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 07/29/2025

Date Analyzed (1): 07/30/2025

Date Analyzed (2): 07/30/2025

Time Analyzed (1): 00:09

Time Analyzed (2): 00:09

Instrument ID (1): ECD\_S

Instrument ID (2): ECD\_S

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

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

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

| EPA<br>SAMPLE NO.          | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED 1 | DATE<br>ANALYZED 2 |
|----------------------------|------------------|----------------|--------------------|--------------------|
| PB169037BS                 | PB169037BS       | PS031295.D     | 07/30/2025         | 07/30/2025         |
| PB168986TB                 | PB168986TB       | PS031296.D     | 07/30/2025         | 07/30/2025         |
| NYPA-POUCH-SPENT-CARBON    | Q2681-01         | PS031297.D     | 07/30/2025         | 07/30/2025         |
| NYPA-POUCH-SPENT-CARBONMS  | Q2681-01MS       | PS031298.D     | 07/30/2025         | 07/30/2025         |
| NYPA-POUCH-SPENT-CARBONMSD | Q2681-01MSD      | PS031299.D     | 07/30/2025         | 07/30/2025         |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_



# SAMPLE DATA

## Report of Analysis

|                    |                                                   |                    |                  |
|--------------------|---------------------------------------------------|--------------------|------------------|
| Client:            | Core Environmental Consultants and Services, Inc. | Date Collected:    |                  |
| Project:           | NYPA                                              | Date Received:     | 07/29/25         |
| Client Sample ID:  | PB168986TB                                        | SDG No.:           | Q2681            |
| Lab Sample ID:     | PB168986TB                                        | Matrix:            | TCLP             |
| Analytical Method: | 8151A                                             | % 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 |
| PS031296.D        | 1         | 07/29/25 08:47 | 07/30/25 00:57 | PB169037      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |          |            |          |
| 94-75-7           | 2,4-D             | 20.0  | U         | 9.20     | 20.0       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 20.0  | U         | 7.80     | 20.0       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |          |            |          |
| 19719-28-9        | 2,4-DCAA          | 465   |           | 61 - 136 | 93%        | 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 &gt;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\PS072925\  
 Data File : PS031296.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 30 Jul 2025 00:57  
 Operator : AR\AJ  
 Sample : PB168986TB  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 PB168986TB

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 30 02:09:54 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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 |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

-----

System Monitoring Compounds

|               |       |       |          |         |         |         |
|---------------|-------|-------|----------|---------|---------|---------|
| 4) S 2,4-DCAA | 7.313 | 7.764 | 1237.7E6 | 388.4E6 | 424.830 | 465.128 |
|---------------|-------|-------|----------|---------|---------|---------|

Target Compounds

-----

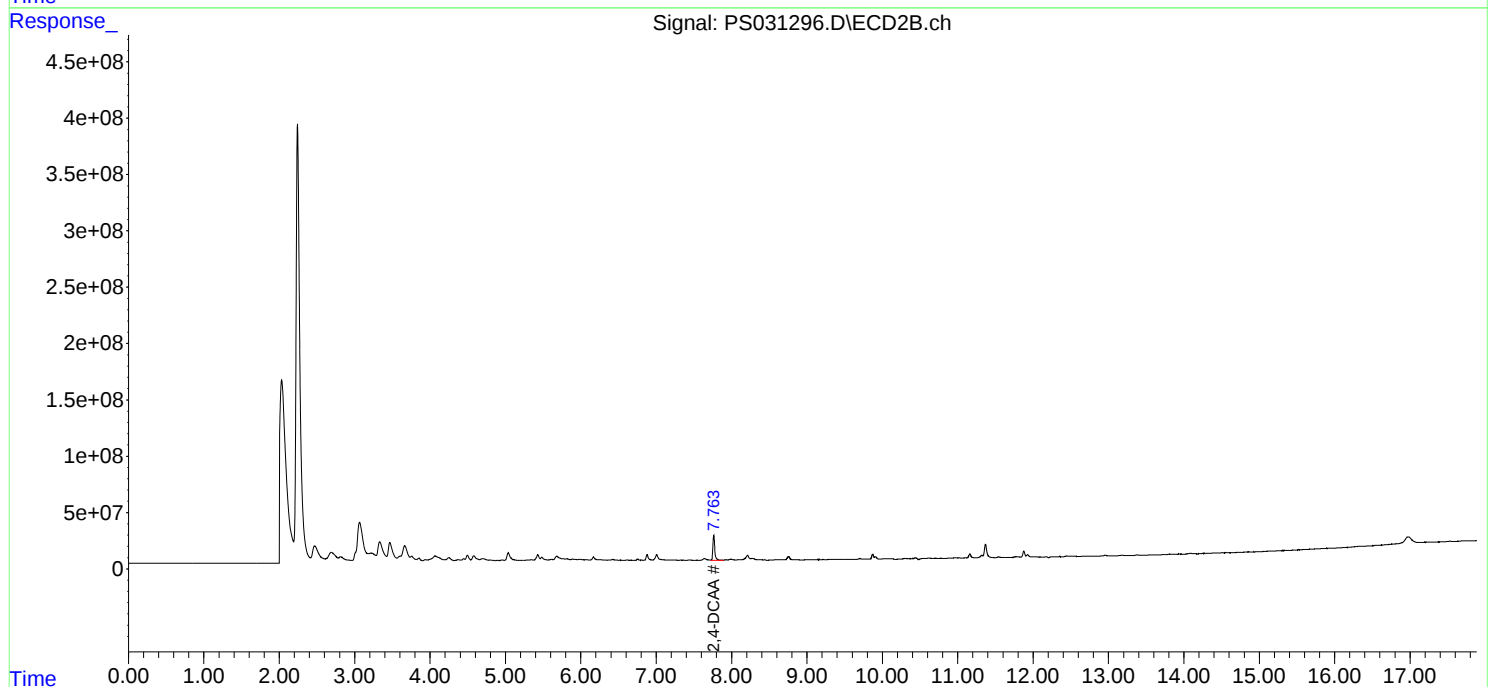
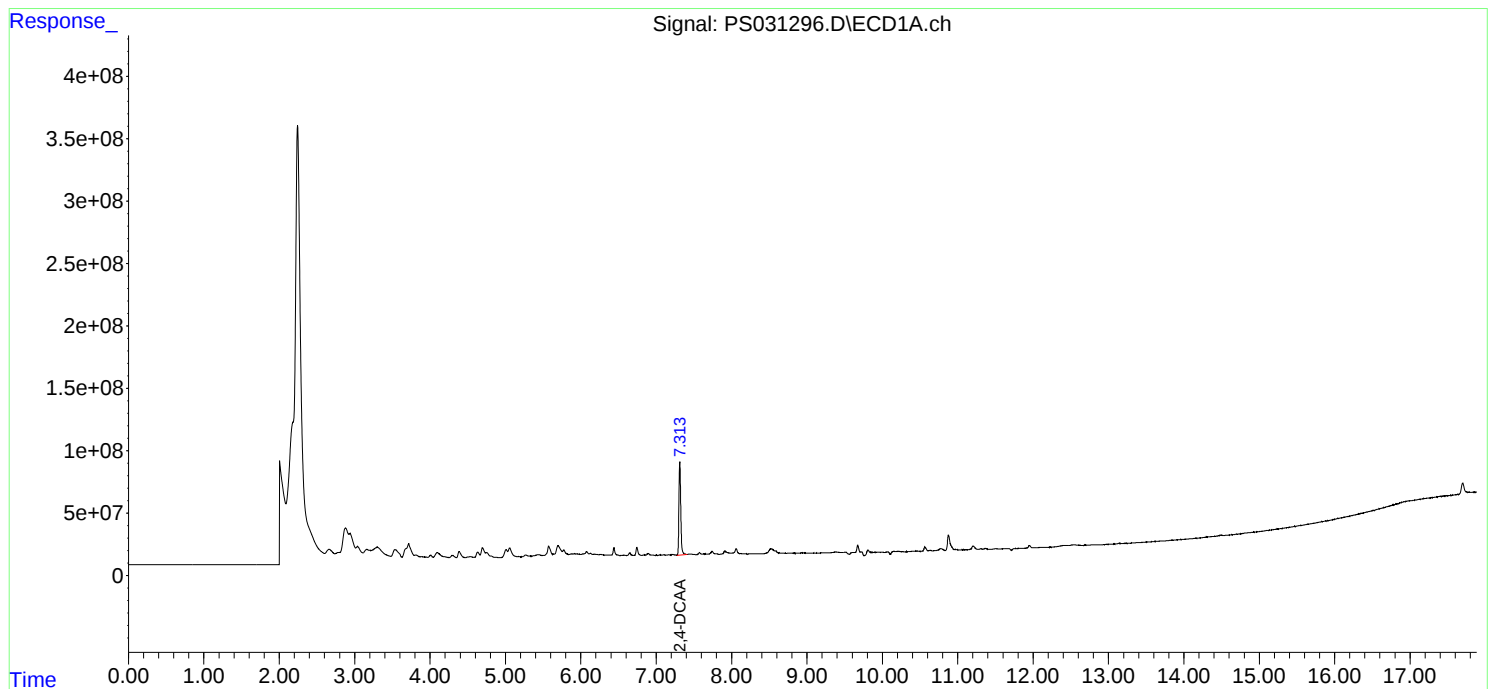
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

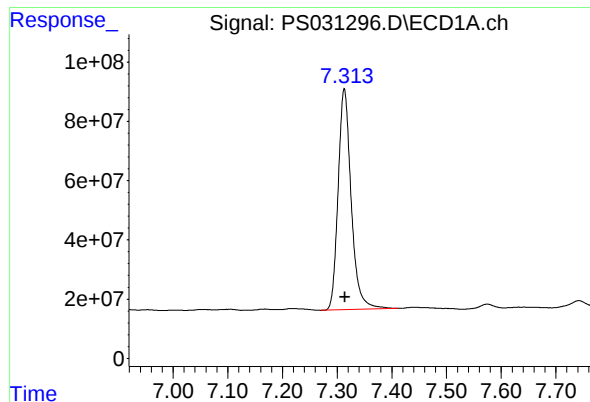
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031296.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 30 Jul 2025 00:57  
Operator : AR\AJ  
Sample : PB168986TB  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
PB168986TB

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 02:09:54 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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

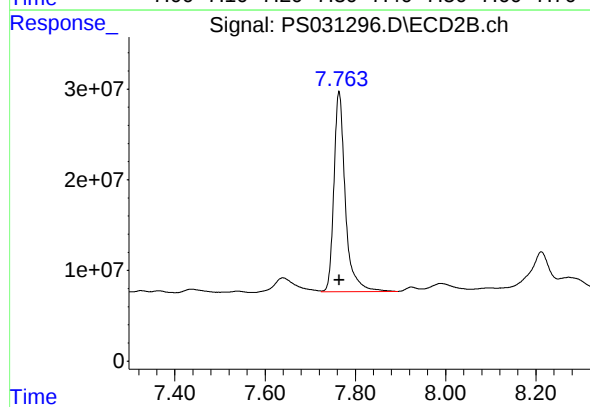




#4 2,4-DCAA

R.T.: 7.313 min  
Delta R.T.: -0.002 min  
Response: 1237702364  
Conc: 424.83 ng/ml

Instrument :  
ECD\_S  
ClientSampleId :  
PB168986TB



#4 2,4-DCAA

R.T.: 7.764 min  
Delta R.T.: 0.000 min  
Response: 388419891  
Conc: 465.13 ng/ml

## Report of Analysis

|                    |                                                   |                    |                |
|--------------------|---------------------------------------------------|--------------------|----------------|
| Client:            | Core Environmental Consultants and Services, Inc. | Date Collected:    | 07/23/25       |
| Project:           | NYPA                                              | Date Received:     | 07/23/25       |
| Client Sample ID:  | NYPA-POUCH-SPENT-CARBON                           | SDG No.:           | Q2681          |
| Lab Sample ID:     | Q2681-01                                          | Matrix:            | TCLP           |
| Analytical Method: | 8151A                                             | % 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 |
| PS031297.D        | 1         | 07/29/25 08:47 | 07/30/25 01:20 | PB169037      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |          |            |          |
| 94-75-7           | 2,4-D             | 20.0  | U         | 9.20     | 20.0       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 20.0  | U         | 7.80     | 20.0       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |          |            |          |
| 19719-28-9        | 2,4-DCAA          | 470   |           | 61 - 136 | 94%        | 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\PS072925\  
 Data File : PS031297.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 30 Jul 2025 01:20  
 Operator : AR\AJ  
 Sample : Q2681-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 NYPA-POUCH-SPENT-CARBON

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 30 02:45:03 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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 | 7.312 | 7.763 | 1259.4E6 | 392.6E6 | 432.282 | 470.120 |
|------|----------|-------|-------|----------|---------|---------|---------|

Target Compounds

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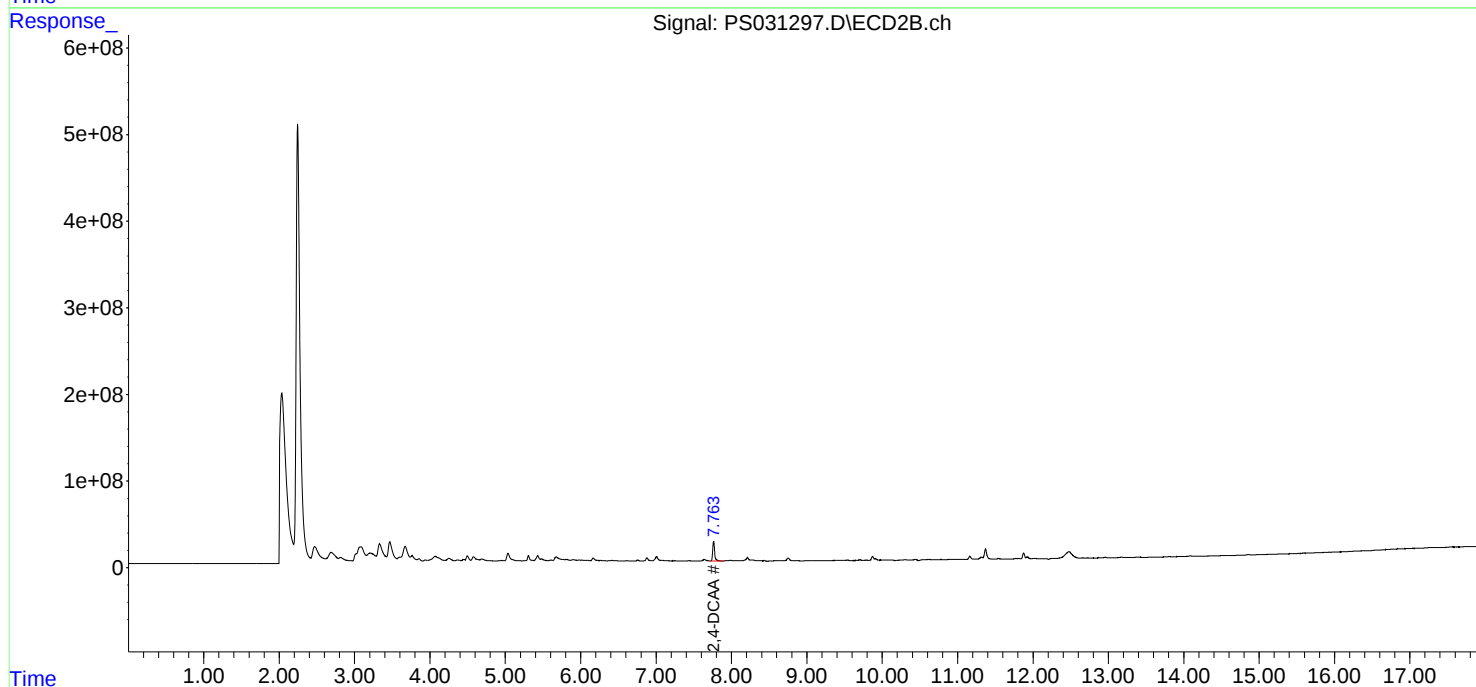
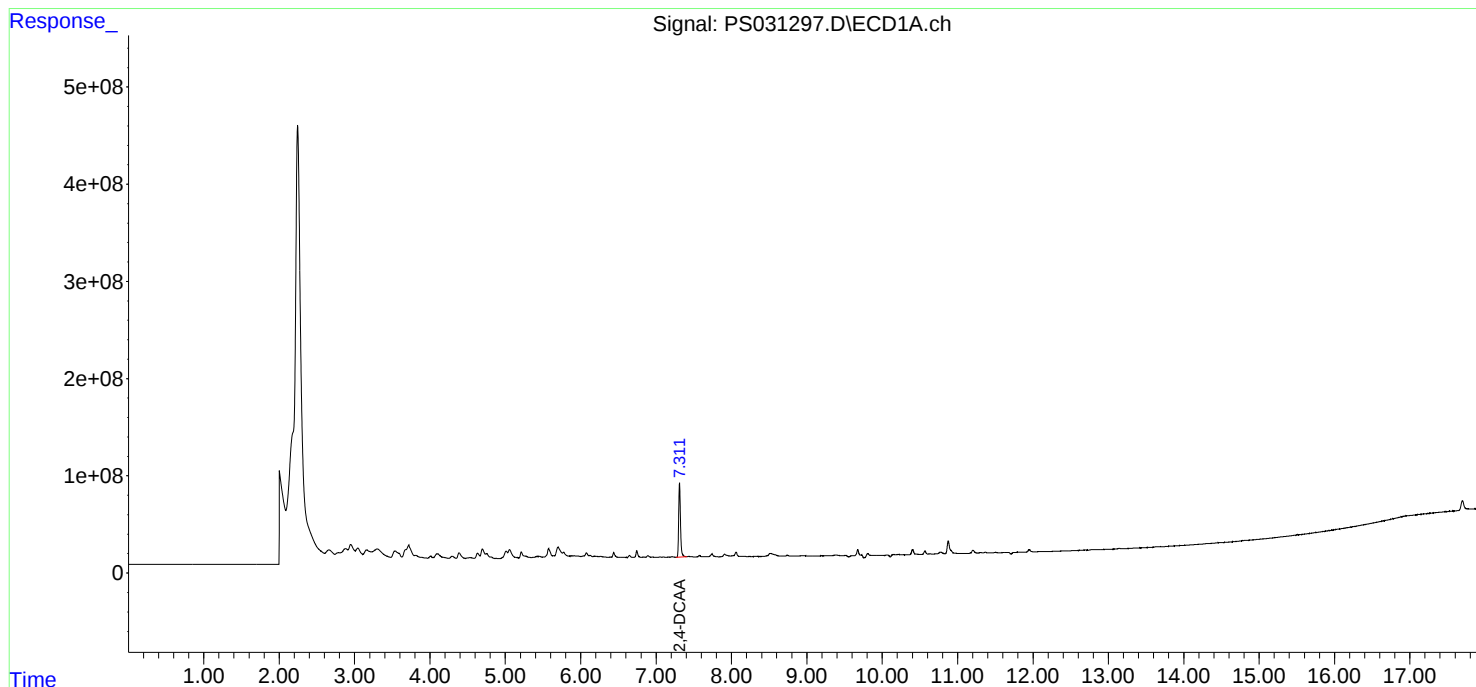
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

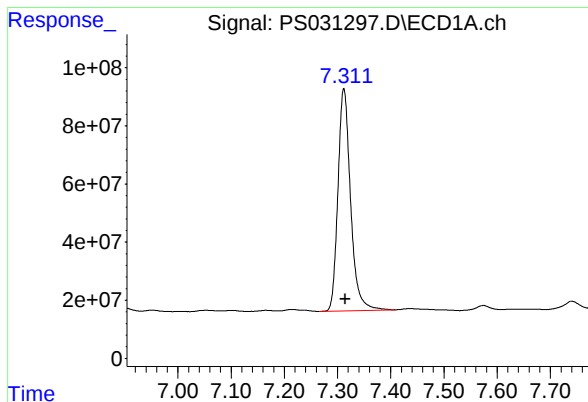
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031297.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 30 Jul 2025 01:20  
Operator : AR\AJ  
Sample : Q2681-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
NYPA-POUCH-SPENT-CARBON

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 02:45:03 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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

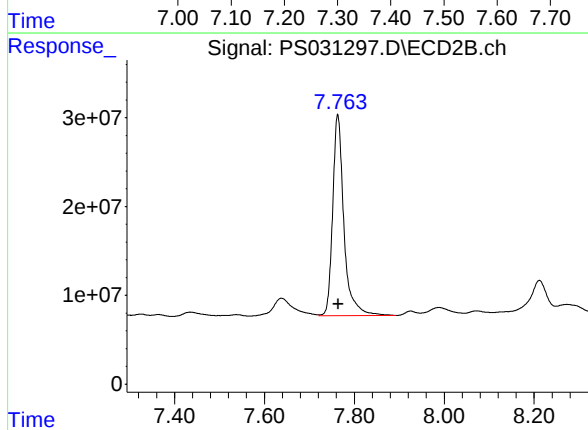




#4 2,4-DCAA

R.T.: 7.312 min  
Delta R.T.: -0.003 min  
Response: 1259412555  
Conc: 432.28 ng/ml

Instrument :  
ECD\_S  
ClientSampleId :  
NYPA-POUCH-SPENT-CARBON



#4 2,4-DCAA

R.T.: 7.763 min  
Delta R.T.: 0.000 min  
Response: 392588056  
Conc: 470.12 ng/ml



# CALIBRATION SUMMARY

**Calibration Times:**                      **16:30**                      **18:07**

|              |          |                   |           |                   |
|--------------|----------|-------------------|-----------|-------------------|
| LAB FILE ID: | RT 200 = | <u>PS031275.D</u> | RT 500 =  | <u>PS031276.D</u> |
|              | RT 750 = | PS031277.D        | RT 1000 = | PS031278.D        |
|              |          |                   | RT 1500 = | PS031279.D        |

[illegible]

## RETENTION TIMES OF INITIAL CALIBRATION

|                       |                 |                             |                                     |
|-----------------------|-----------------|-----------------------------|-------------------------------------|
| <b>Lab Name:</b>      | <u>Alliance</u> | <b>Contract:</b>            | <u>CORE02</u>                       |
| <b>Lab Code:</b>      | <u>ACE</u>      | <b>SDG NO.:</b>             | <u>Q2681</u>                        |
| <b>Instrument ID:</b> | <u>ECD_S</u>    | <b>Calibration Date(s):</b> | <u>07/29/2025</u> <u>07/29/2025</u> |
|                       |                 | <b>Calibration Times:</b>   | <u>16:30</u> <u>18:07</u>           |

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

|                                   |                                    |                                    |
|-----------------------------------|------------------------------------|------------------------------------|
| <b>LAB FILE ID:</b>               | <b>RT 200 =</b> <u>PS031275.D</u>  | <b>RT 500 =</b> <u>PS031276.D</u>  |
| <b>RT 750 =</b> <u>PS031277.D</u> | <b>RT 1000 =</b> <u>PS031278.D</u> | <b>RT 1500 =</b> <u>PS031279.D</u> |

| COMPOUND         | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN<br>RT | RT WINDOW<br>FROM      TO |       |
|------------------|--------|--------|--------|---------|---------|------------|---------------------------|-------|
| 2,4,5-TP(Silvex) | 9.93   | 9.92   | 9.92   | 9.92    | 9.92    | 9.92       | 9.82                      | 10.02 |
| 2,4-D            | 9.03   | 9.03   | 9.03   | 9.02    | 9.02    | 9.03       | 8.93                      | 9.13  |
| 2,4-DCAA         | 7.77   | 7.77   | 7.77   | 7.76    | 7.76    | 7.77       | 7.67                      | 7.87  |



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

### CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Instrument ID: ECD\_S

Calibration Date(s): 07/29/2025 07/29/2025

Calibration Times: 16:30 18:07

GC Column: RTX-CLP

ID: 0.32 (mm)

| LAB FILE ID:     |             | CF 200 =          | <u>PS031275.D</u> | CF 500 =          | <u>PS031276.D</u> |                   |       |
|------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| CF 750 =         |             | <u>PS031277.D</u> | CF 1000 =         | <u>PS031278.D</u> | CF 1500 =         | <u>PS031279.D</u> |       |
| COMPOUND         | CF 200      | CF 500            | CF 750            | CF 1000           | CF 1500           | CF                | % RSD |
| 2,4,5-TP(Silvex) | 16396000000 | 16819100000       | 16676100000       | 16892300000       | 16522800000       | 16661300000       | 1     |
| 2,4-D            | 2576570000  | 2575840000        | 2553160000        | 2630000000        | 2631140000        | 2593340000        | 1     |
| 2,4-DCAA         | 3064840000  | 2959730000        | 2862370000        | 2871350000        | 2808730000        | 2913400000        | 3     |



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

### CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Instrument ID: ECD\_S

Calibration Date(s): 07/29/2025 07/29/2025

Calibration Times: 16:30 18:07

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

| LAB FILE ID:     |             | CF 200 =          | <u>PS031275.D</u> | CF 500 =          | <u>PS031276.D</u> |                   |       |
|------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| CF 750 =         |             | <u>PS031277.D</u> | CF 1000 =         | <u>PS031278.D</u> | CF 1500 =         | <u>PS031279.D</u> |       |
| COMPOUND         | CF 200      | CF 500            | CF 750            | CF 1000           | CF 1500           | CF                | % RSD |
| 2,4,5-TP(Silvex) | 13057400000 | 12937900000       | 12568100000       | 12631100000       | 12319500000       | 12702800000       | 2     |
| 2,4-D            | 1448930000  | 1409840000        | 1369840000        | 1380980000        | 1368050000        | 1395530000        | 2     |
| 2,4-DCAA         | 882797000   | 843990000         | 816032000         | 820679000         | 811907000         | 835081000         | 4     |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
 Data File : PS031275.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 29 Jul 2025 16:30  
 Operator : AR\AJ  
 Sample : HSTDICC200  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

**Instrument :**

ECD\_S

**ClientSampleId :**

HSTDICC200

**Manual Integrations****APPROVED**

Reviewed By :Abdul Mirza 07/30/2025

Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 29 17:39:16 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 17:34:36 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     | 7.316  | 7.768  | 613.0E6  | 176.6E6  | 206.922 | 208.304  |
| Target Compounds            |              |        |        |          |          |         |          |
| 1) T                        | Dalapon      | 2.688  | 2.704  | 921.2E6  | 469.2E6  | 188.568 | 188.630  |
| 2) T                        | 3,5-DICHL... | 6.478  | 6.715  | 822.8E6  | 252.1E6  | 191.081 | 192.345  |
| 3) T                        | 4-Nitroph... | 7.118  | 7.313  | 182.4E6  | 226.4E6  | 181.893 | 178.469  |
| 5) T                        | DICAMBA      | 7.503  | 7.966  | 2468.5E6 | 1011.0E6 | 190.422 | 187.976  |
| 6) T                        | MCPD         | 7.681  | 8.060  | 113.1E6  | 25466191 | 15.263  | 15.980   |
| 7) T                        | MCPA         | 7.831  | 8.308  | 152.6E6  | 42129242 | 16.560  | 16.914   |
| 8) T                        | DICHLORPROP  | 8.214  | 8.687  | 633.4E6  | 264.1E6  | 203.032 | 198.356  |
| 9) T                        | 2,4-D        | 8.448  | 9.030  | 484.4E6  | 272.4E6  | 188.589 | 193.254  |
| 10) T                       | Pentachlo... | 8.745  | 9.538  | 9305.3E6 | 6464.8E6 | 191.406 | 189.296  |
| 11) T                       | 2,4,5-TP ... | 9.327  | 9.925  | 3115.2E6 | 2480.9E6 | 187.322 | 192.999  |
| 12) T                       | 2,4,5-T      | 9.623  | 10.355 | 2308.7E6 | 2217.7E6 | 179.129 | 189.723  |
| 13) T                       | 2,4-DB       | 10.202 | 10.925 | 289.9E6  | 173.0E6  | 175.484 | 180.975m |
| 14) T                       | DINOSEB      | 11.407 | 11.302 | 2130.4E6 | 1807.8E6 | 187.195 | 192.540  |
| 15) T                       | Picloram     | 11.230 | 12.428 | 1927.2E6 | 2762.4E6 | 173.439 | 170.671  |
| 16) T                       | DCPA         | 11.705 | 12.346 | 3830.0E6 | 3578.8E6 | 186.172 | 191.067  |
| -----                       |              |        |        |          |          |         |          |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031275.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 16:30  
Operator : AR\AJ  
Sample : HSTDICC200  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

## Instrument :

ECD\_S

## ClientSampleId :

HSTDICC200

## Manual Integrations

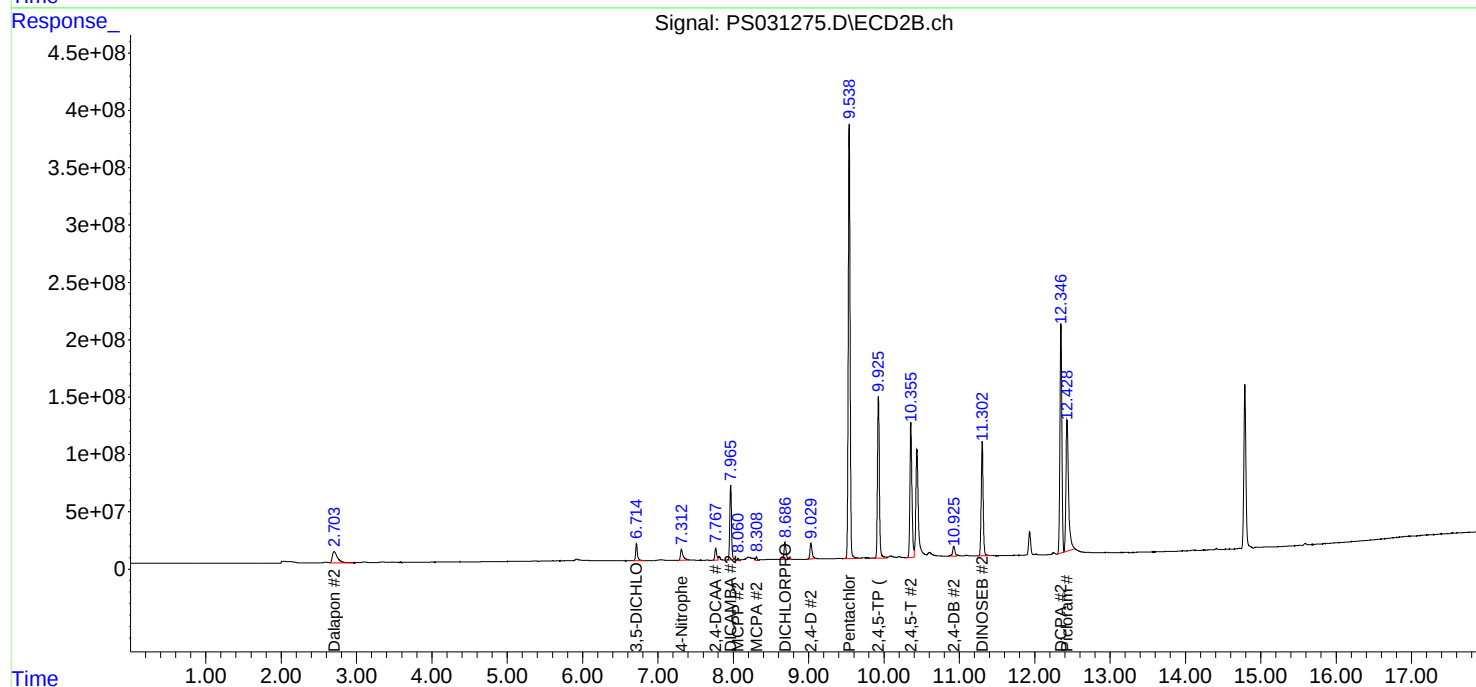
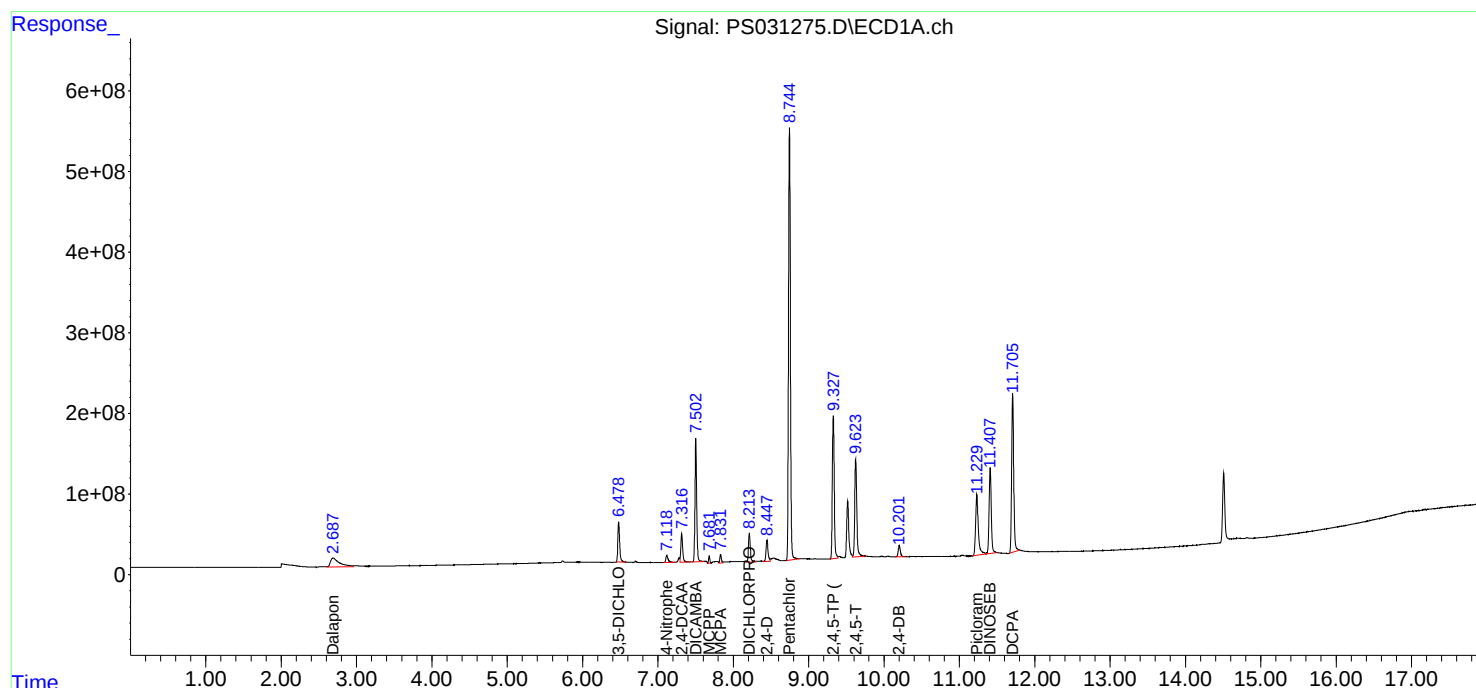
APPROVED

Reviewed By :Abdul Mirza 07/30/2025

Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 29 17:39:16 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 17:34:36 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
 Data File : PS031276.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 29 Jul 2025 16:54  
 Operator : AR\AJ  
 Sample : HSTDICC500  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 HSTDICC500

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 29 17:37:04 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 17:34:36 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     | 7.316  | 7.766  | 1479.9E6  | 422.0E6   | 508.361 | 508.421 |
| Target Compounds            |              |        |        |           |           |         |         |
| 1) T                        | Dalapon      | 2.687  | 2.704  | 2224.4E6  | 1122.4E6  | 463.702 | 459.609 |
| 2) T                        | 3,5-DICHL... | 6.478  | 6.713  | 2011.4E6  | 607.7E6   | 473.617 | 471.804 |
| 3) T                        | 4-Nitroph... | 7.117  | 7.306  | 456.9E6   | 583.2E6   | 455.473 | 455.371 |
| 5) T                        | DICAMBA      | 7.503  | 7.965  | 6116.3E6  | 2545.3E6  | 474.878 | 473.223 |
| 6) T                        | MCP          | 7.682  | 8.062  | 374.1E6   | 79075575  | 46.126  | 46.157  |
| 7) T                        | MCPA         | 7.832  | 8.310  | 446.0E6   | 120.6E6   | 45.871  | 46.328  |
| 8) T                        | DICHLORPROP  | 8.213  | 8.686  | 1443.5E6  | 621.4E6   | 481.940 | 479.870 |
| 9) T                        | 2,4-D        | 8.446  | 9.026  | 1210.6E6  | 662.6E6   | 472.078 | 476.764 |
| 10) T                       | Pentachlo... | 8.744  | 9.538  | 23252.7E6 | 16426.0E6 | 480.076 | 480.083 |
| 11) T                       | 2,4,5-TP ... | 9.327  | 9.924  | 7989.1E6  | 6145.5E6  | 477.029 | 481.888 |
| 12) T                       | 2,4,5-T      | 9.622  | 10.353 | 6223.9E6  | 5603.4E6  | 469.473 | 479.022 |
| 13) T                       | 2,4-DB       | 10.200 | 10.923 | 801.6E6   | 473.4E6   | 467.453 | 481.624 |
| 14) T                       | DINOSEB      | 11.406 | 11.302 | 5344.4E6  | 4392.7E6  | 468.594 | 473.565 |
| 15) T                       | Picloram     | 11.228 | 12.423 | 5380.0E6  | 7919.9E6  | 463.946 | 465.630 |
| 16) T                       | DCPA         | 11.705 | 12.346 | 10037.6E6 | 9125.4E6  | 480.627 | 486.010 |
| -----                       |              |        |        |           |           |         |         |

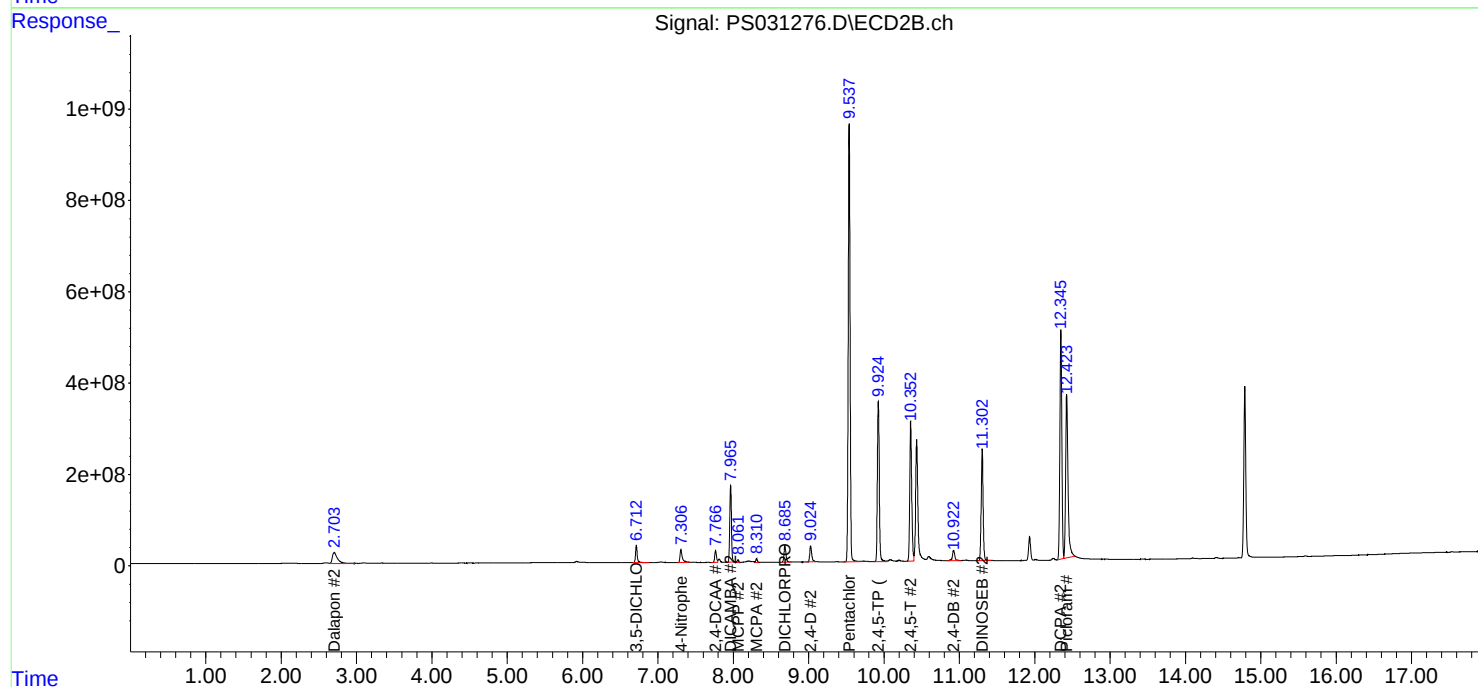
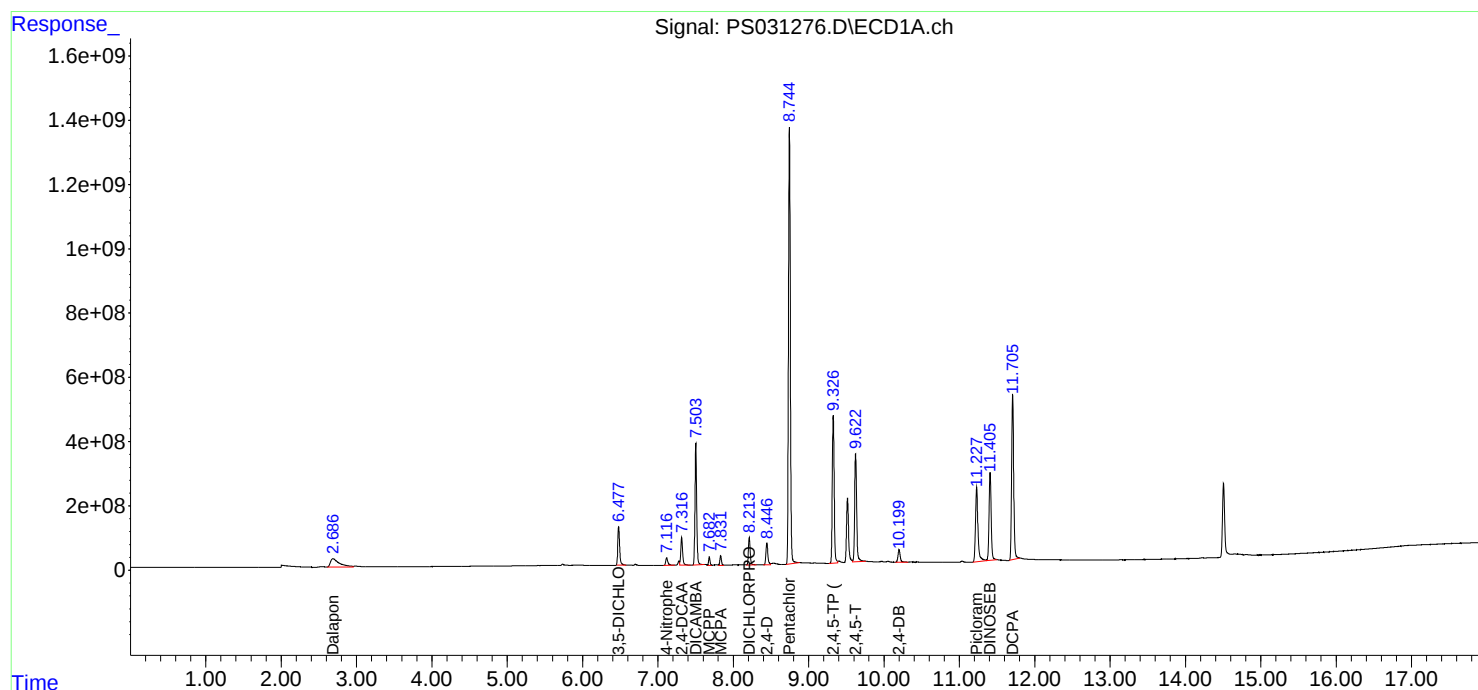
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031276.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 16:54  
Operator : AR\AJ  
Sample : HSTDICC500  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
HSTDICC500

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 29 17:37:04 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 17:34:36 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\PS072925\  
 Data File : PS031277.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 29 Jul 2025 17:18  
 Operator : AR\AJ  
 Sample : HSTDICC750  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 HSTDICC750

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 29 17:35:00 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 17:34:36 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     | 7.315  | 7.766  | 2146.8E6  | 612.0E6   | 750.000 | 750.000 |
| Target Compounds            |              |        |        |           |           |         |         |
| 1) T                        | Dalapon      | 2.691  | 2.703  | 3211.3E6  | 1649.8E6  | 682.500 | 682.500 |
| 2) T                        | 3,5-DICHL... | 6.478  | 6.712  | 2907.4E6  | 885.3E6   | 697.500 | 697.500 |
| 3) T                        | 4-Nitroph... | 7.115  | 7.304  | 683.9E6   | 873.4E6   | 682.500 | 682.500 |
| 5) T                        | DICAMBA      | 7.503  | 7.965  | 8985.9E6  | 3766.0E6  | 705.000 | 705.000 |
| 6) T                        | MCP          | 7.683  | 8.063  | 582.3E6   | 122.9E6   | 70.500  | 70.500  |
| 7) T                        | MCPA         | 7.833  | 8.312  | 687.3E6   | 182.3E6   | 69.750  | 69.750  |
| 8) T                        | DICHLORPROP  | 8.213  | 8.685  | 2058.0E6  | 893.7E6   | 705.000 | 705.000 |
| 9) T                        | 2,4-D        | 8.446  | 9.025  | 1800.0E6  | 965.7E6   | 705.000 | 705.000 |
| 10) T                       | Pentachlo... | 8.744  | 9.538  | 34141.5E6 | 24117.3E6 | 712.500 | 712.500 |
| 11) T                       | 2,4,5-TP ... | 9.327  | 9.924  | 11881.7E6 | 8954.8E6  | 712.500 | 712.500 |
| 12) T                       | 2,4,5-T      | 9.621  | 10.352 | 9555.7E6  | 8264.0E6  | 712.500 | 712.500 |
| 13) T                       | 2,4-DB       | 10.199 | 10.922 | 1241.2E6  | 690.6E6   | 712.500 | 712.500 |
| 14) T                       | DINOSEB      | 11.407 | 11.302 | 8064.7E6  | 6489.8E6  | 705.000 | 705.000 |
| 15) T                       | Picloram     | 11.227 | 12.421 | 8454.6E6  | 12358.0E6 | 712.500 | 712.500 |
| 16) T                       | DCPA         | 11.705 | 12.345 | 15017.1E6 | 13349.6E6 | 720.000 | 720.000 |
| -----                       |              |        |        |           |           |         |         |

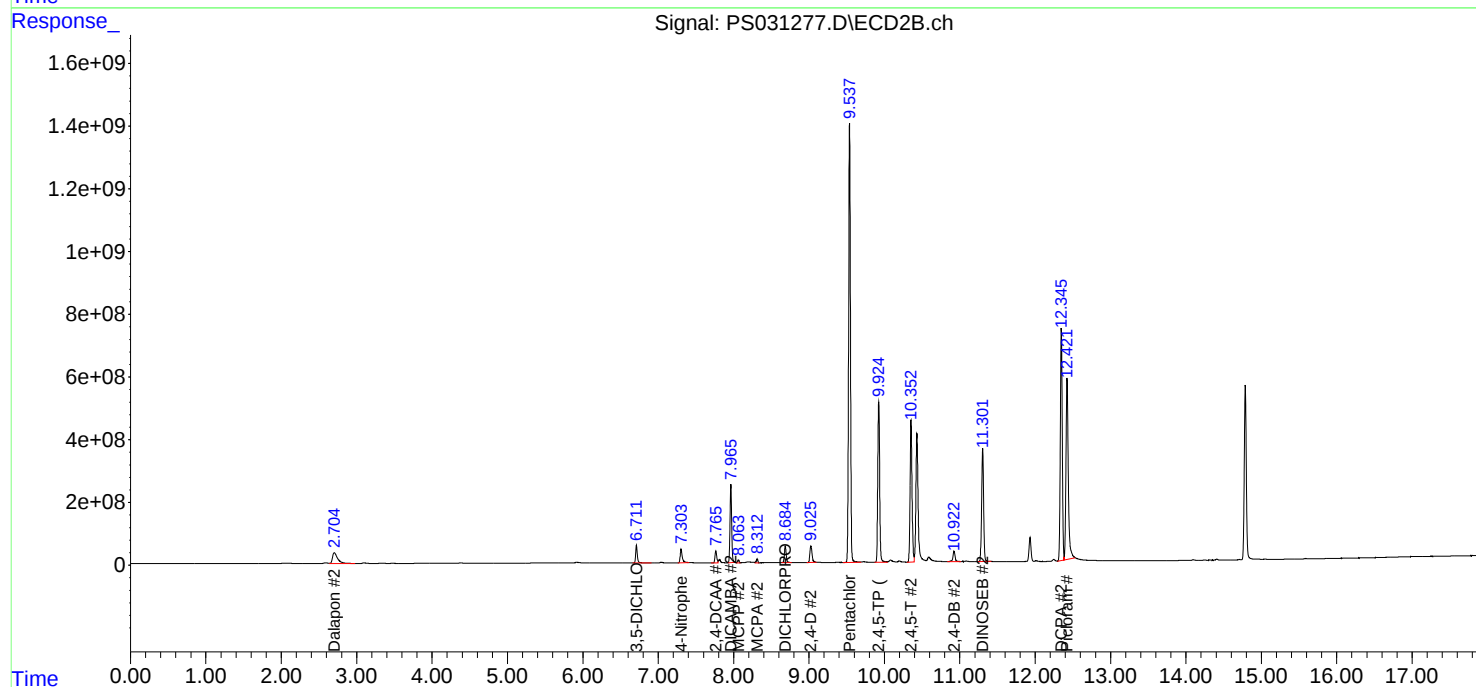
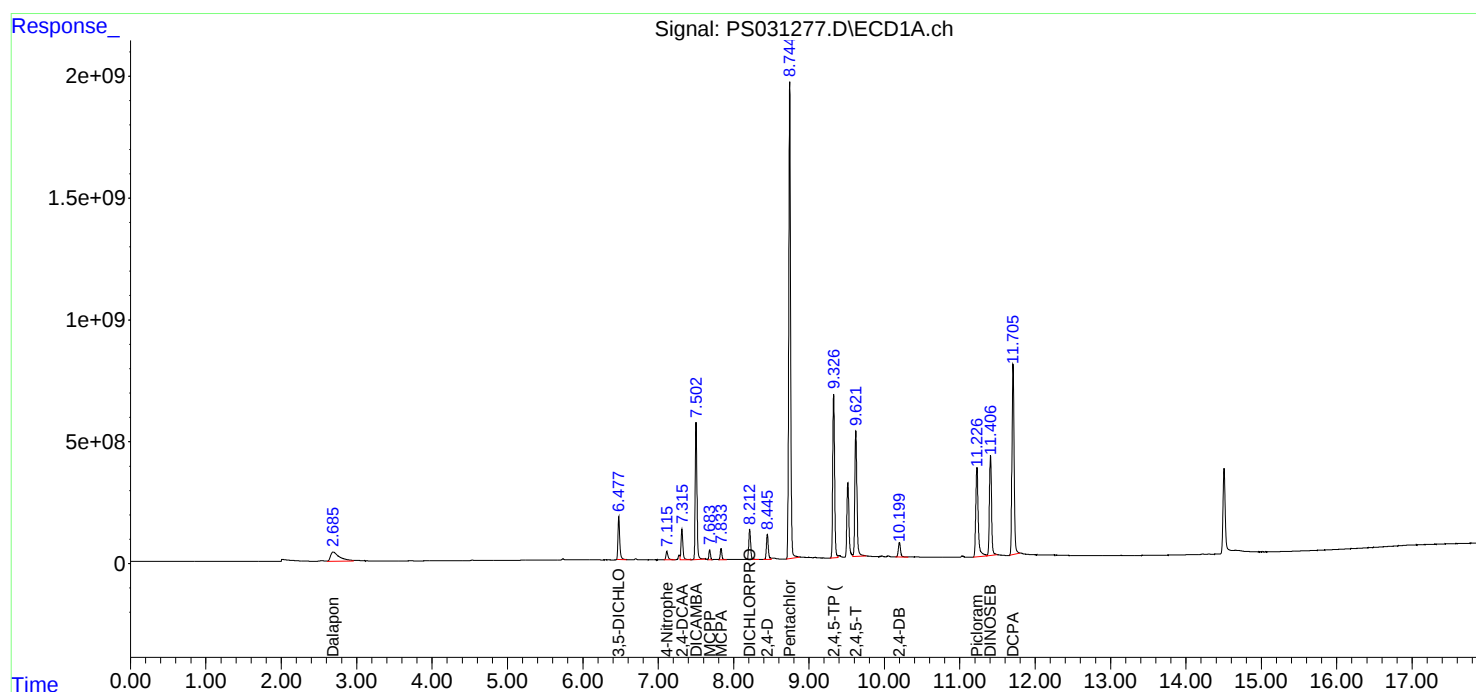
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031277.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 17:18  
Operator : AR\AJ  
Sample : HSTDICC750  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
HSTDICC750

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 29 17:35:00 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 17:34:36 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\PS072925\  
 Data File : PS031278.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 29 Jul 2025 17:42  
 Operator : AR\AJ  
 Sample : HSTDICC1000  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

**Instrument :**

ECD\_S

**ClientSampleId :**

HSTDICC1000

**Manual Integrations****APPROVED**

Reviewed By :Abdul Mirza 07/30/2025

Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 29 18:33:38 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:33:29 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     | 7.315  | 7.764  | 2871.4E6  | 820.7E6   | 976.793  | 975.983  |
| Target Compounds            |              |        |        |           |           |          |          |
| 1) T                        | Dalapon      | 2.689  | 2.703  | 4309.1E6  | 2208.8E6  | 888.905  | 893.428  |
| 2) T                        | 3,5-DICHL... | 6.477  | 6.711  | 3892.4E6  | 1185.2E6  | 910.365  | 910.687  |
| 3) T                        | 4-Nitroph... | 7.114  | 7.301  | 945.7E6   | 1196.9E6  | 934.559  | 934.927  |
| 5) T                        | DICAMBA      | 7.502  | 7.964  | 12163.5E6 | 5140.8E6  | 938.734  | 951.834  |
| 6) T                        | MCP          | 7.684  | 8.063  | 823.6E6   | 177.0E6   | 106.274  | 106.245m |
| 7) T                        | MCPA         | 7.835  | 8.313  | 965.9E6   | 254.5E6   | 101.577  | 99.709   |
| 8) T                        | DICHLORPROP  | 8.212  | 8.684  | 2772.3E6  | 1187.2E6  | 900.895  | 903.247  |
| 9) T                        | 2,4-D        | 8.445  | 9.023  | 2472.2E6  | 1298.1E6  | 956.774  | 925.645  |
| 10) T                       | Pentachlo... | 8.746  | 9.537  | 43280.1E6 | 32447.1E6 | 904.476  | 950.066  |
| 11) T                       | 2,4,5-TP ... | 9.326  | 9.923  | 16047.7E6 | 11999.5E6 | 961.178  | 937.566  |
| 12) T                       | 2,4,5-T      | 9.621  | 10.351 | 13235.5E6 | 11142.3E6 | 1006.546 | 952.412  |
| 13) T                       | 2,4-DB       | 10.199 | 10.921 | 1764.9E6  | 929.1E6   | 1036.187 | 964.182  |
| 14) T                       | DINOSEB      | 11.406 | 11.301 | 10986.1E6 | 8765.9E6  | 958.868  | 935.207  |
| 15) T                       | Picloram     | 11.225 | 12.420 | 11830.2E6 | 17241.2E6 | 1033.456 | 1033.863 |
| 16) T                       | DCPA         | 11.705 | 12.344 | 20376.3E6 | 17998.5E6 | 982.676  | 960.682  |
| -----                       |              |        |        |           |           |          |          |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031278.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 17:42  
Operator : AR\AJ  
Sample : HSTDICC1000  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

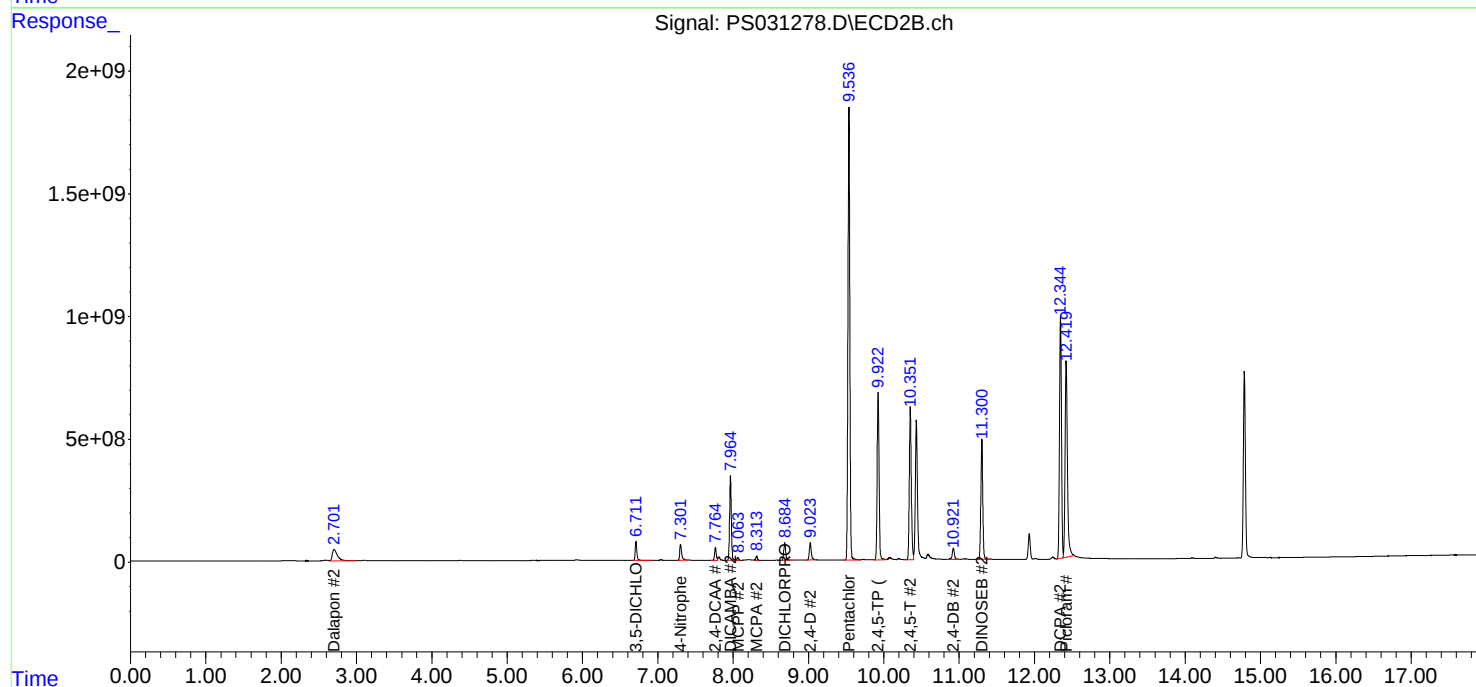
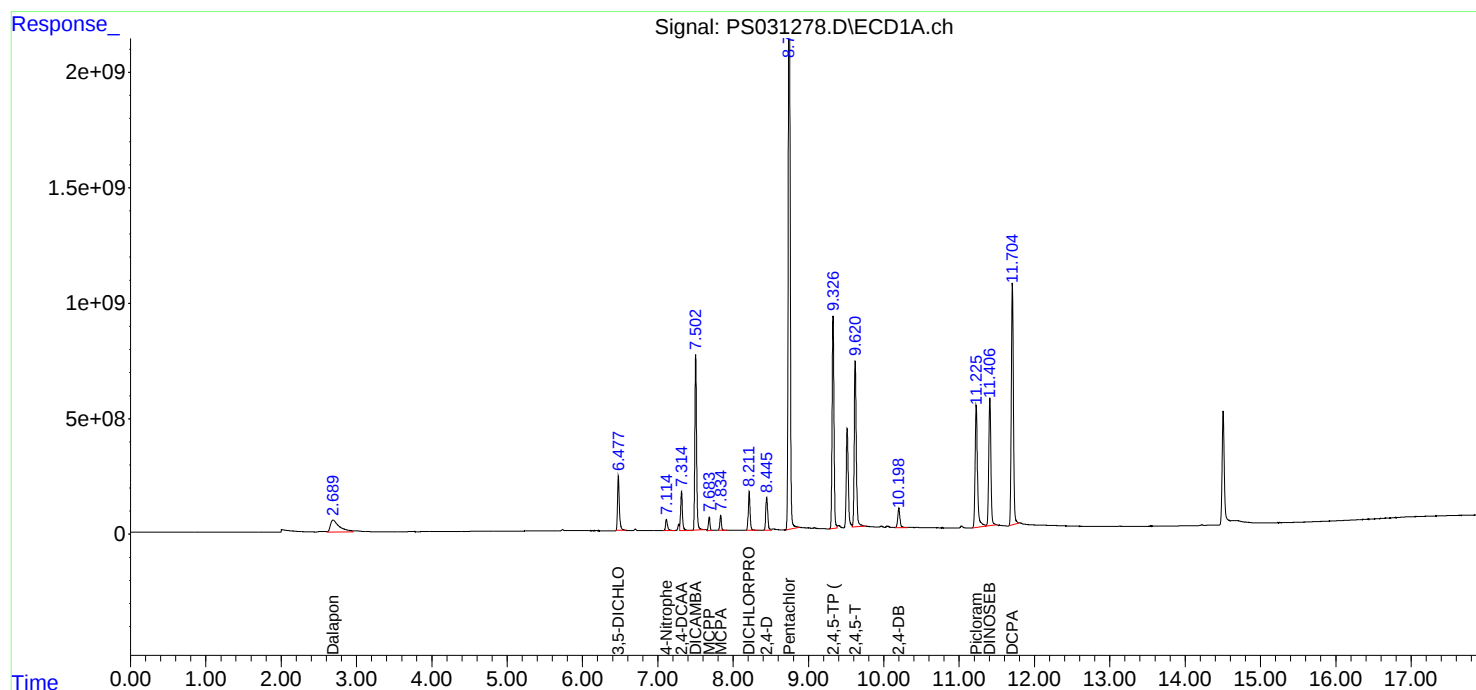
Instrument :  
ECD\_S  
ClientSampleId :  
HSTDICC1000

Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 07/30/2025  
Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 29 18:33:38 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:33:29 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\PS072925\  
 Data File : PS031279.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 29 Jul 2025 18:07  
 Operator : AR\AJ  
 Sample : HSTDICC1500  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 HSTDICC1500

Manual Integrations  
 APPROVED

Reviewed By :Abdul Mirza 07/30/2025  
 Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 29 18:36:41 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:36:31 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 | 7.315 | 7.764 | 4213.1E6 | 1217.9E6 | 1446.107 | 1458.374 |
|------|----------|-------|-------|----------|----------|----------|----------|

Target Compounds

|       |              |        |        |           |           |           |          |
|-------|--------------|--------|--------|-----------|-----------|-----------|----------|
| 1) T  | Dalapon      | 2.687  | 2.703  | 6459.5E6  | 3264.6E6  | 1338.889  | 1329.127 |
| 2) T  | 3,5-DICHL... | 6.477  | 6.711  | 5875.6E6  | 1751.8E6  | 1377.922m | 1355.583 |
| 3) T  | 4-Nitroph... | 7.114  | 7.300  | 1424.0E6  | 1820.8E6  | 1398.569  | 1410.456 |
| 5) T  | DICAMBA      | 7.503  | 7.965  | 18010.7E6 | 7755.4E6  | 1393.955  | 1430.657 |
| 6) T  | MCP          | 7.687  | 8.067  | 1299.4E6  | 265.5E6   | 161.563   | 154.852m |
| 7) T  | MCPA         | 7.837  | 8.318  | 1512.5E6  | 385.2E6   | 154.717   | 148.503  |
| 8) T  | DICHLORPROP  | 8.213  | 8.685  | 4076.4E6  | 1752.2E6  | 1340.926  | 1347.768 |
| 9) T  | 2,4-D        | 8.445  | 9.023  | 3709.9E6  | 1929.0E6  | 1430.550  | 1382.238 |
| 10) T | Pentachlo... | 8.754  | 9.537  | 51285.3E6 | 43992.6E6 | 1127.676  | 1313.353 |
| 11) T | 2,4,5-TP ... | 9.326  | 9.924  | 23545.0E6 | 17555.3E6 | 1413.157  | 1382.005 |
| 12) T | 2,4,5-T      | 9.621  | 10.352 | 19815.8E6 | 16426.4E6 | 1489.826  | 1408.216 |
| 13) T | 2,4-DB       | 10.198 | 10.921 | 2740.7E6  | 1389.2E6  | 1568.589  | 1438.353 |
| 14) T | DINOSEB      | 11.406 | 11.302 | 16198.2E6 | 12981.7E6 | 1413.015  | 1389.912 |
| 15) T | Picloram     | 11.225 | 12.419 | 18182.2E6 | 26745.6E6 | 1552.752  | 1564.536 |
| 16) T | DCPA         | 11.706 | 12.345 | 29863.9E6 | 26378.3E6 | 1440.185  | 1414.251 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031279.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 18:07  
Operator : AR\AJ  
Sample : HSTDICC1500  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

## Instrument :

ECD\_S

## ClientSampleId :

HSTDICC1500

## Manual Integrations

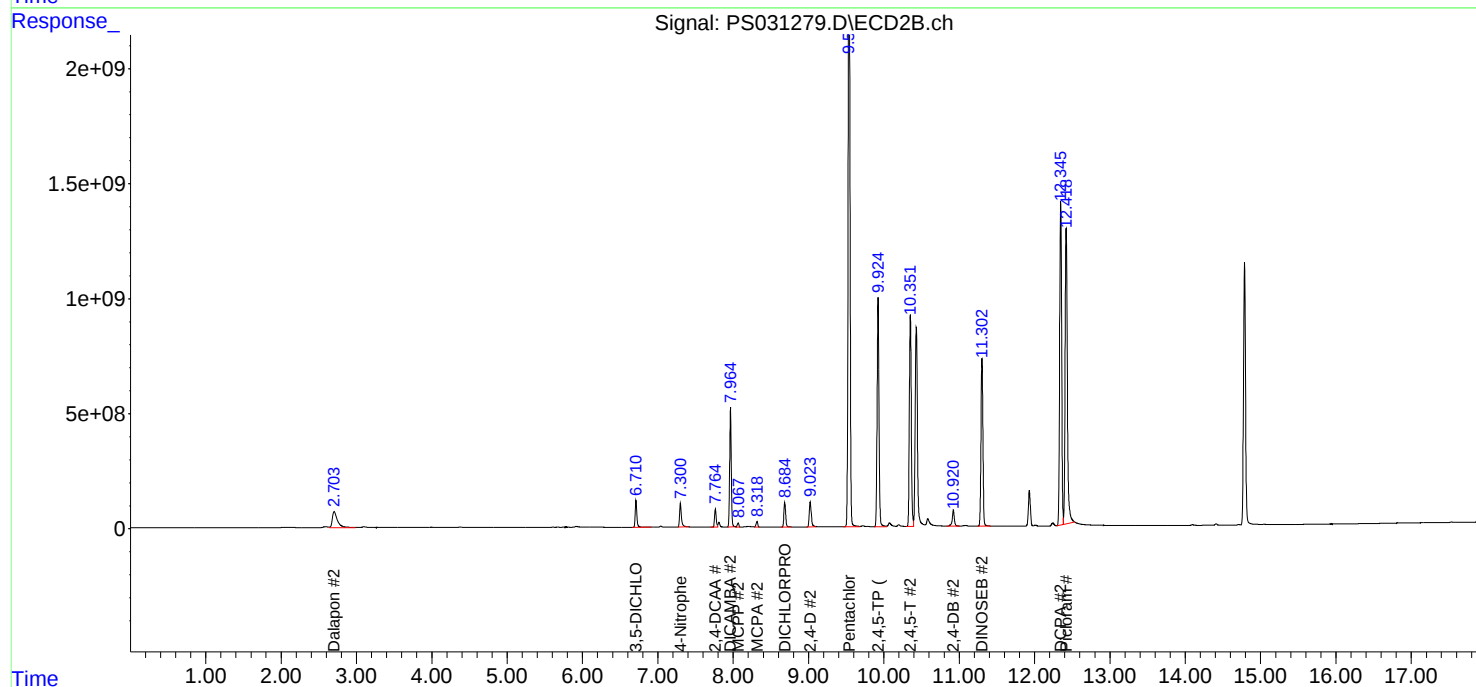
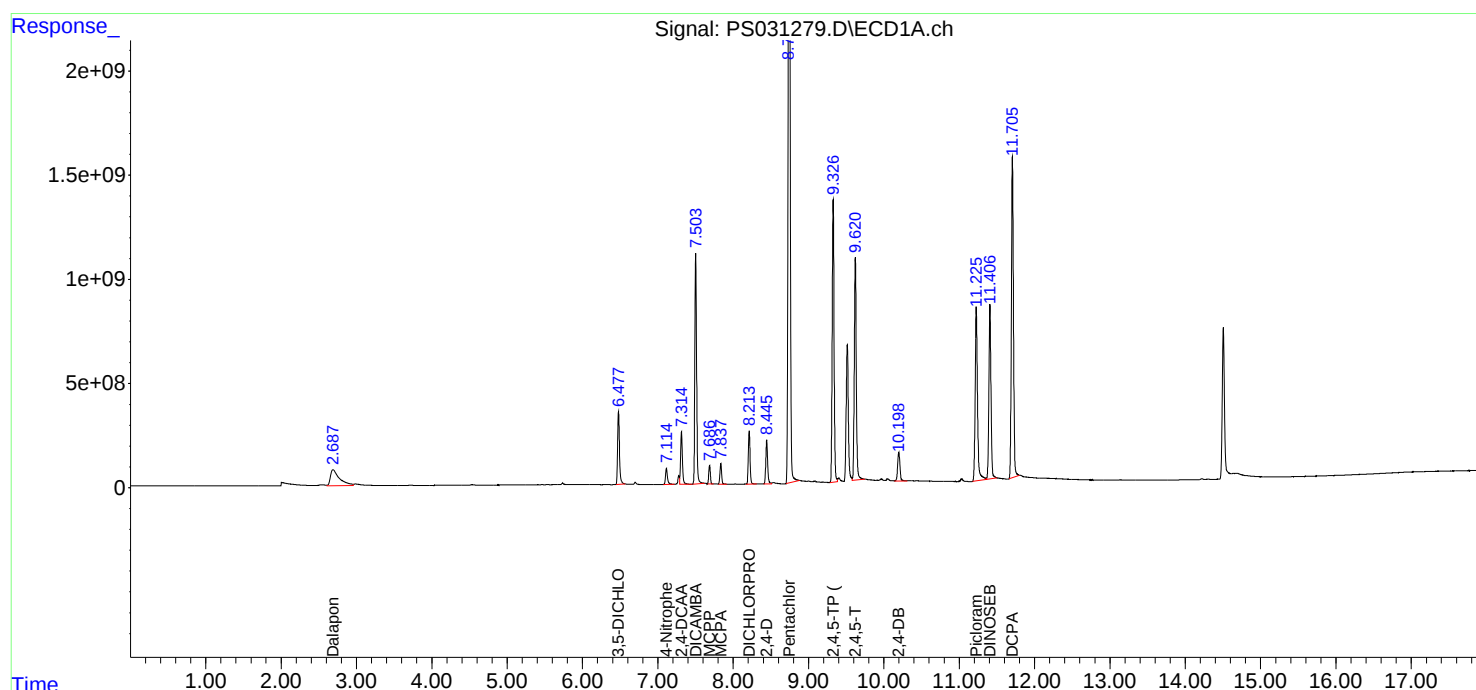
## APPROVED

Reviewed By :Abdul Mirza 07/30/2025

Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 29 18:36:41 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:36:31 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
 Data File : PS031280.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 29 Jul 2025 18:31  
 Operator : AR\AJ  
 Sample : HSTDICV750  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 ICVPS072925

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 29 18:50:14 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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     | 7.315  | 7.765  | 2243.9E6  | 643.4E6   | 770.185 | 770.495 |
| Target Compounds            |              |        |        |           |           |         |         |
| 1) T                        | Dalapon      | 2.687  | 2.704  | 3392.0E6  | 1745.4E6  | 703.064 | 710.609 |
| 2) T                        | 3,5-DICHL... | 6.478  | 6.712  | 3054.9E6  | 932.9E6   | 716.626 | 721.942 |
| 3) T                        | 4-Nitroph... | 7.115  | 7.303  | 703.7E6   | 913.8E6   | 691.074 | 707.854 |
| 5) T                        | DICAMBA      | 7.502  | 7.964  | 9430.0E6  | 3984.4E6  | 729.846 | 735.011 |
| 6) T                        | MCP          | 7.683  | 8.062  | 612.0E6   | 129.1E6   | 76.089  | 75.545  |
| 7) T                        | MCPA         | 7.833  | 8.312  | 717.3E6   | 197.1E6   | 73.373  | 75.979  |
| 8) T                        | DICHLORPROP  | 8.212  | 8.684  | 2150.6E6  | 932.4E6   | 707.439 | 717.176 |
| 9) T                        | 2,4-D        | 8.446  | 9.024  | 1853.3E6  | 1017.3E6  | 714.640 | 728.951 |
| 10) T                       | Pentachlo... | 8.744  | 9.537  | 35802.8E6 | 25442.6E6 | 787.242 | 759.561 |
| 11) T                       | 2,4,5-TP ... | 9.327  | 9.923  | 12346.8E6 | 9437.2E6  | 741.047 | 742.920 |
| 12) T                       | 2,4,5-T      | 9.621  | 10.352 | 9811.5E6  | 8675.9E6  | 737.669 | 743.778 |
| 13) T                       | 2,4-DB       | 10.199 | 10.922 | 1273.5E6  | 719.7E6   | 728.832 | 745.165 |
| 14) T                       | DINOSEB      | 11.405 | 11.302 | 8263.3E6  | 6770.1E6  | 720.834 | 724.854 |
| 15) T                       | Picloram     | 11.226 | 12.421 | 8499.1E6  | 12798.4E6 | 725.821 | 748.664 |
| 16) T                       | DCPA         | 11.704 | 12.345 | 15610.9E6 | 14126.5E6 | 752.837 | 757.380 |
| -----                       |              |        |        |           |           |         |         |

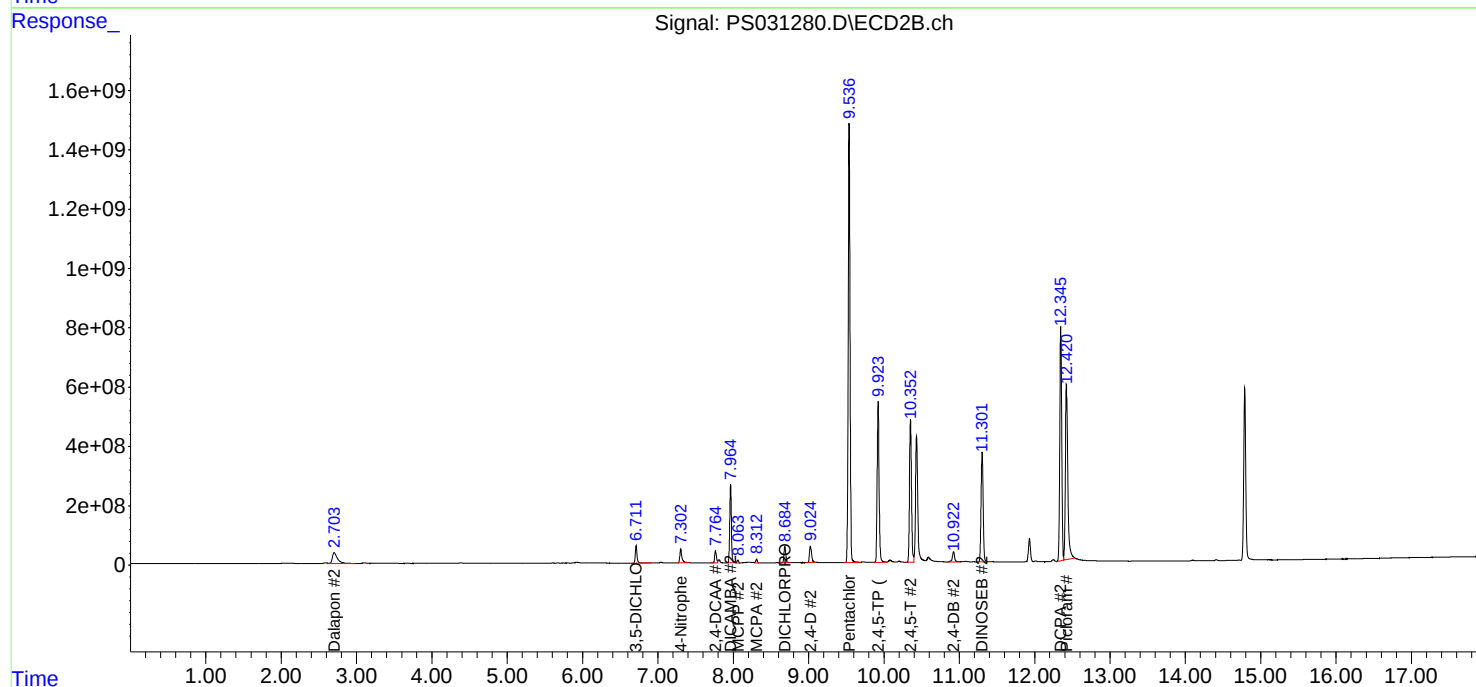
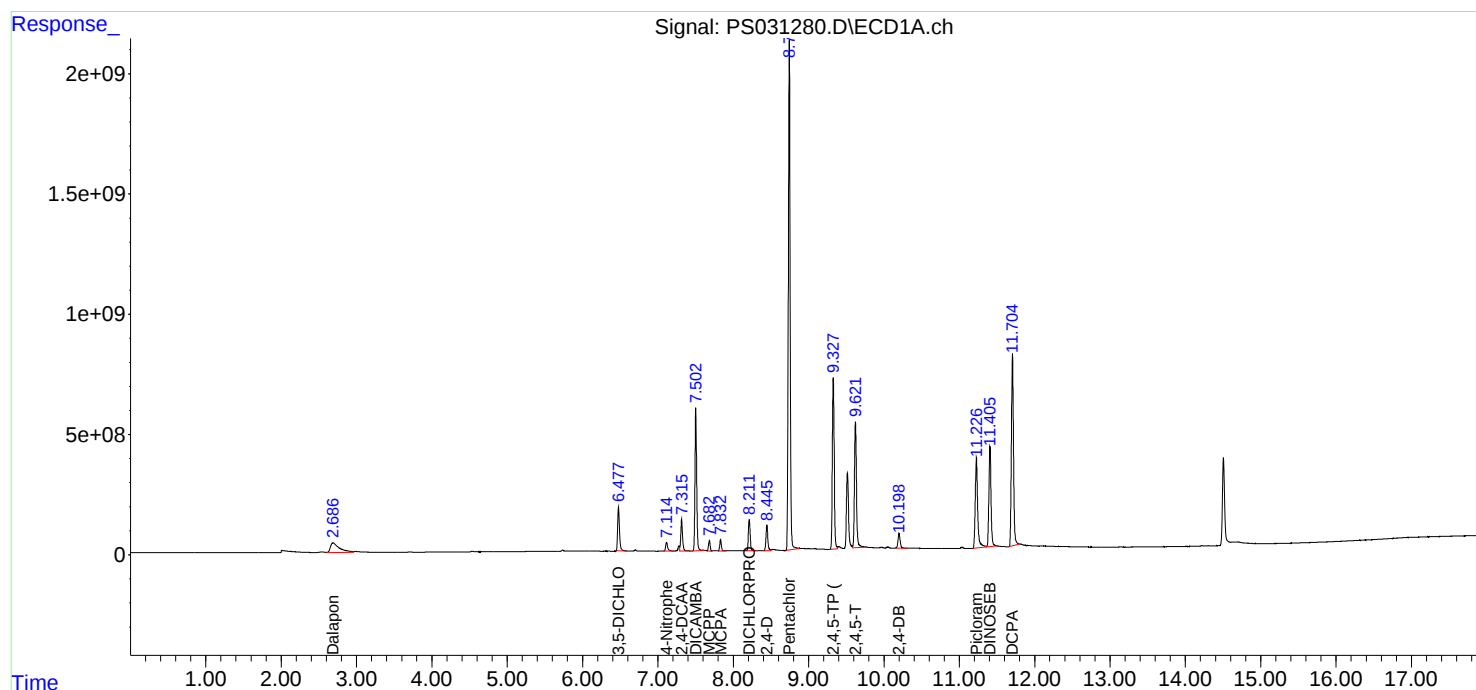
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031280.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 18:31  
Operator : AR\AJ  
Sample : HSTDICV750  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
ICVPS072925

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 29 18:50:14 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Continuing Calib Date: 07/29/2025

Initial Calibration Date(s): 07/29/2025 07/29/2025

Continuing Calib Time: 23:45

Initial Calibration Time(s): 16:30 18:07

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

| COMPOUND         | CCAL<br>RT | AVG<br>RT | RT WINDOW<br>FROM   TO |      | DIFF<br>RT |
|------------------|------------|-----------|------------------------|------|------------|
| 2,4-DCAA         | 7.31       | 7.32      | 7.22                   | 7.42 | 0.01       |
| 2,4-D            | 8.44       | 8.45      | 8.35                   | 8.55 | 0.01       |
| 2,4,5-TP(Silvex) | 9.32       | 9.33      | 9.23                   | 9.43 | 0.01       |



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

### CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Continuing Calib Date: 07/29/2025

Initial Calibration Date(s): 07/29/2025 07/29/2025

Continuing Calib Time: 23:45

Initial Calibration Time(s): 16:30 18:07

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

| COMPOUND         | CCAL<br>RT | AVG<br>RT | RT WINDOW<br>FROM   TO |       | DIFF<br>RT |
|------------------|------------|-----------|------------------------|-------|------------|
| 2,4-DCAA         | 7.77       | 7.77      | 7.67                   | 7.87  | 0.01       |
| 2,4-D            | 9.02       | 9.03      | 8.93                   | 9.13  | 0.01       |
| 2,4,5-TP(Silvex) | 9.92       | 9.92      | 9.82                   | 10.02 | 0.00       |



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

**CALIBRATION VERIFICATION SUMMARY**

**Lab Name:** Alliance **Contract:** CORE02  
**Lab Code:** ACE **SDG NO.:** Q2681  
**GC Column:** RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/29/2025 07/29/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/29/2025  
**Lab Sample No.:** HSTDCCC750 **Data File :** PS031293.D **Time Analyzed:** 23:45

| COMPOUND         | RT    | RT WINDOW<br>FROM TO |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|------------------|-------|----------------------|-------|--------------------|-------------------|------|
| 2,4,5-TP(Silvex) | 9.324 | 9.227                | 9.427 | 716.860            | 712.500           | 0.6  |
| 2,4-D            | 8.444 | 8.346                | 8.546 | 695.390            | 705.000           | -1.4 |
| 2,4-DCAA         | 7.313 | 7.215                | 7.415 | 750.570            | 750.000           | 0.1  |



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

**CALIBRATION VERIFICATION SUMMARY**

**Lab Name:** Alliance **Contract:** CORE02  
**Lab Code:** ACE **SDG NO.:** Q2681  
**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/29/2025 07/29/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/29/2025  
**Lab Sample No.:** HSTDCCC750 **Data File :** PS031293.D **Time Analyzed:** 23:45

| COMPOUND         | RT    | RT WINDOW |        | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|------------------|-------|-----------|--------|--------------------|-------------------|------|
|                  |       | FROM      | TO     |                    |                   |      |
| 2,4,5-TP(Silvex) | 9.923 | 9.824     | 10.024 | 706.120            | 712.500           | -0.9 |
| 2,4-D            | 9.024 | 8.925     | 9.125  | 687.020            | 705.000           | -2.6 |
| 2,4-DCAA         | 7.765 | 7.666     | 7.866  | 736.100            | 750.000           | -1.9 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
 Data File : PS031293.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 29 Jul 2025 23:45  
 Operator : AR\AJ  
 Sample : HSTDCCC750  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

**Instrument :**

ECD\_S

**ClientSampleId :**

HSTDCCC750

**Manual Integrations****APPROVED**

Reviewed By :Abdul Mirza 07/30/2025

Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 30 02:09:17 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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     | 7.313  | 7.765  | 2186.7E6  | 614.7E6   | 750.565 | 736.099 |
| Target Compounds            |              |        |        |           |           |         |         |
| 1) T                        | Dalapon      | 2.689  | 2.703  | 3255.2E6  | 1657.3E6  | 674.715 | 674.754 |
| 2) T                        | 3,5-DICHL... | 6.476  | 6.711  | 2920.4E6  | 885.1E6   | 685.073 | 684.930 |
| 3) T                        | 4-Nitroph... | 7.114  | 7.304  | 700.9E6   | 852.9E6   | 688.374 | 660.712 |
| 5) T                        | DICAMBA      | 7.501  | 7.964  | 9127.7E6  | 3773.1E6  | 706.445 | 696.041 |
| 6) T                        | MCPD         | 7.681  | 8.062  | 578.8E6   | 138.8E6   | 71.959  | 81.222m |
| 7) T                        | MCPA         | 7.831  | 8.311  | 703.4E6   | 180.6E6   | 71.953  | 69.620  |
| 8) T                        | DICHLORPROP  | 8.210  | 8.684  | 2084.0E6  | 882.3E6   | 685.529 | 678.656 |
| 9) T                        | 2,4-D        | 8.444  | 9.024  | 1803.4E6  | 958.8E6   | 695.392 | 687.016 |
| 10) T                       | Pentachlo... | 8.742  | 9.536  | 34522.7E6 | 24232.7E6 | 759.095 | 723.444 |
| 11) T                       | 2,4,5-TP ... | 9.324  | 9.923  | 11943.9E6 | 8969.7E6  | 716.865 | 706.117 |
| 12) T                       | 2,4,5-T      | 9.619  | 10.351 | 9460.5E6  | 8220.0E6  | 711.276 | 704.690 |
| 13) T                       | 2,4-DB       | 10.196 | 10.921 | 1231.5E6  | 676.5E6   | 704.841 | 700.397 |
| 14) T                       | DINOSEB      | 11.403 | 11.300 | 8022.7E6  | 6464.3E6  | 699.845 | 692.113 |
| 15) T                       | Picloram     | 11.224 | 12.420 | 8040.4E6  | 11578.5E6 | 686.650 | 677.308 |
| 16) T                       | DCPA         | 11.702 | 12.343 | 15048.9E6 | 13073.7E6 | 725.733 | 700.937 |
| -----                       |              |        |        |           |           |         |         |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031293.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 23:45  
Operator : AR\AJ  
Sample : HSTDCCC750  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

## Instrument :

ECD\_S

## ClientSampleId :

HSTDCCC750

## Manual Integrations

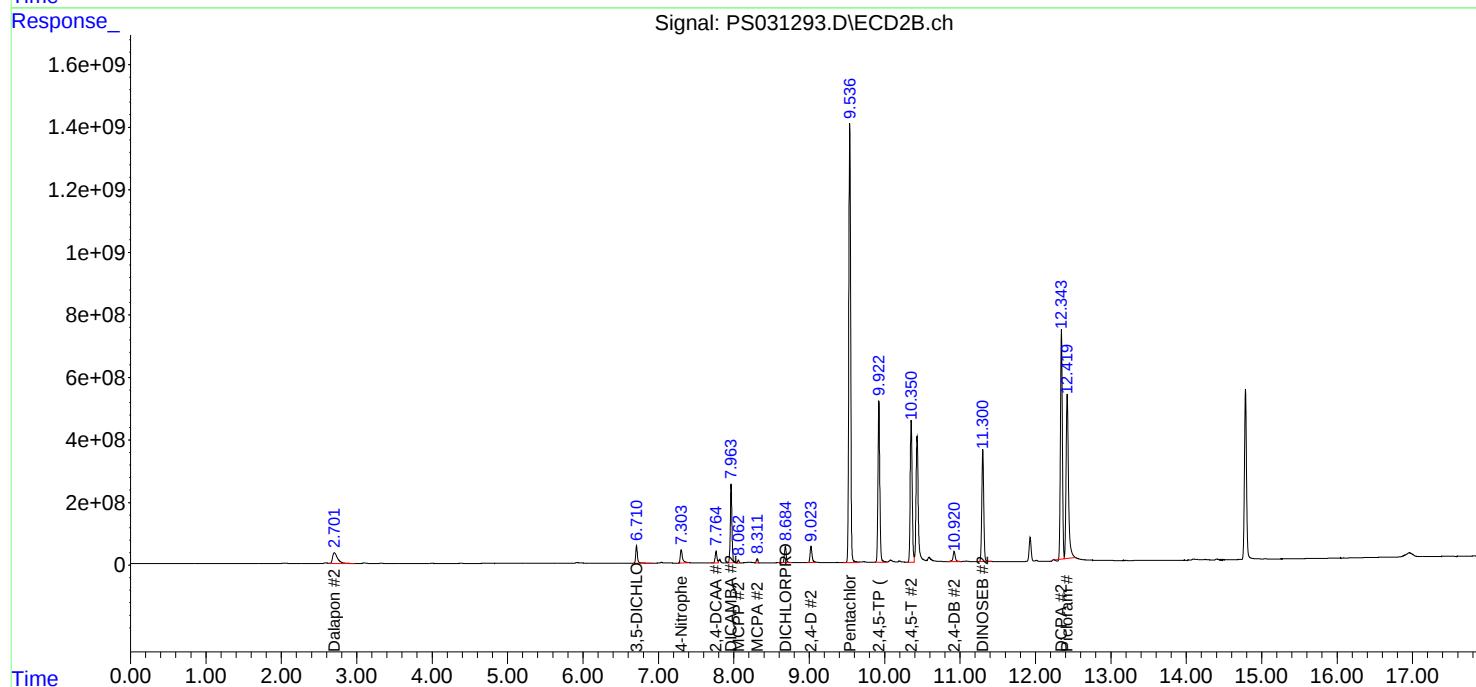
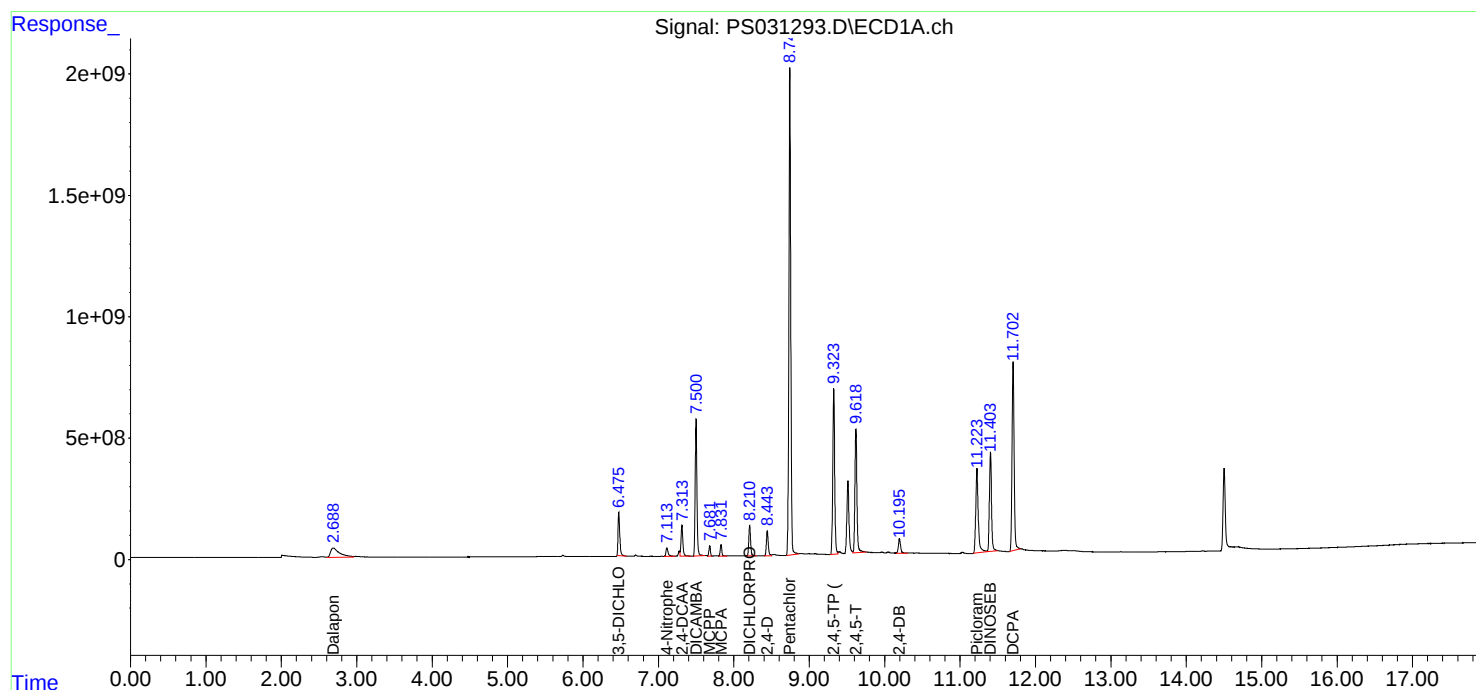
## APPROVED

Reviewed By :Abdul Mirza 07/30/2025

Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 02:09:17 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Continuing Calib Date: 07/30/2025

Initial Calibration Date(s): 07/29/2025 07/29/2025

Continuing Calib Time: 02:57

Initial Calibration Time(s): 16:30 18:07

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

| COMPOUND         | CCAL<br>RT | AVG<br>RT | RT WINDOW<br>FROM   TO |      | DIFF<br>RT |
|------------------|------------|-----------|------------------------|------|------------|
| 2,4-DCAA         | 7.31       | 7.32      | 7.22                   | 7.42 | 0.01       |
| 2,4-D            | 8.44       | 8.45      | 8.35                   | 8.55 | 0.01       |
| 2,4,5-TP(Silvex) | 9.32       | 9.33      | 9.23                   | 9.43 | 0.01       |



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### CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Continuing Calib Date: 07/30/2025

Initial Calibration Date(s): 07/29/2025 07/29/2025

Continuing Calib Time: 02:57

Initial Calibration Time(s): 16:30 18:07

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

| COMPOUND         | CCAL<br>RT | AVG<br>RT | RT WINDOW<br>FROM   TO |       | DIFF<br>RT |
|------------------|------------|-----------|------------------------|-------|------------|
| 2,4-DCAA         | 7.76       | 7.77      | 7.67                   | 7.87  | 0.01       |
| 2,4-D            | 9.02       | 9.03      | 8.93                   | 9.13  | 0.01       |
| 2,4,5-TP(Silvex) | 9.92       | 9.92      | 9.82                   | 10.02 | 0.00       |



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

**CALIBRATION VERIFICATION SUMMARY**

**Lab Name:** Alliance **Contract:** CORE02  
**Lab Code:** ACE **SDG NO.:** Q2681  
**GC Column:** RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/29/2025 07/29/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 07/30/2025  
**Lab Sample No.:** HSTDCCC750 **Data File :** PS031301.D **Time Analyzed:** 02:57

| COMPOUND         | RT    | RT WINDOW<br>FROM TO |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D  |
|------------------|-------|----------------------|-------|--------------------|-------------------|-----|
| 2,4,5-TP(Silvex) | 9.322 | 9.227                | 9.427 | 723.660            | 712.500           | 1.6 |
| 2,4-D            | 8.441 | 8.346                | 8.546 | 708.400            | 705.000           | 0.5 |
| 2,4-DCAA         | 7.312 | 7.215                | 7.415 | 769.970            | 750.000           | 2.7 |



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

### CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Contract: CORE02  
Lab Code: ACE SDG NO.: Q2681  
GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 07/29/2025 07/29/2025

Client Sample No.: CCAL02 Date Analyzed: 07/30/2025  
Lab Sample No.: HSTDCCC750 Data File : PS031301.D Time Analyzed: 02:57

| COMPOUND         | RT    | RT WINDOW |        | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|------------------|-------|-----------|--------|--------------------|-------------------|------|
|                  |       | FROM      | TO     |                    |                   |      |
| 2,4,5-TP(Silvex) | 9.923 | 9.824     | 10.024 | 709.370            | 712.500           | -0.4 |
| 2,4-D            | 9.023 | 8.925     | 9.125  | 689.660            | 705.000           | -2.2 |
| 2,4-DCAA         | 7.764 | 7.666     | 7.866  | 735.430            | 750.000           | -1.9 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
 Data File : PS031301.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 30 Jul 2025 02:57  
 Operator : AR\AJ  
 Sample : HSTDCCC750  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

**Instrument :**

ECD\_S

**ClientSampleId :**

HSTDCCC750

**Manual Integrations****APPROVED**

Reviewed By :Abdul Mirza 07/30/2025

Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 30 03:16:38 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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     | 7.312  | 7.764  | 2243.2E6  | 614.1E6   | 769.973 | 735.434 |
| Target Compounds            |              |        |        |           |           |         |         |
| 1) T                        | Dalapon      | 2.689  | 2.704  | 3283.6E6  | 1655.6E6  | 680.595 | 674.045 |
| 2) T                        | 3,5-DICHL... | 6.476  | 6.711  | 2974.2E6  | 892.4E6   | 697.679 | 690.548 |
| 3) T                        | 4-Nitroph... | 7.113  | 7.303  | 731.5E6   | 852.4E6   | 718.441 | 660.347 |
| 5) T                        | DICAMBA      | 7.500  | 7.964  | 9283.6E6  | 3785.5E6  | 718.514 | 698.327 |
| 6) T                        | MCPD         | 7.680  | 8.061  | 567.9E6   | 113.5E6   | 70.614  | 66.373  |
| 7) T                        | MCPA         | 7.829  | 8.311  | 708.7E6   | 188.7E6   | 72.494  | 72.746  |
| 8) T                        | DICHLORPROP  | 8.209  | 8.684  | 2113.0E6  | 891.6E6   | 695.073 | 685.783 |
| 9) T                        | 2,4-D        | 8.441  | 9.023  | 1837.1E6  | 962.4E6   | 708.404 | 689.657 |
| 10) T                       | Pentachlo... | 8.741  | 9.536  | 35297.4E6 | 24455.9E6 | 776.130 | 730.105 |
| 11) T                       | 2,4,5-TP ... | 9.322  | 9.923  | 12057.2E6 | 9011.0E6  | 723.665 | 709.371 |
| 12) T                       | 2,4,5-T      | 9.617  | 10.351 | 9533.3E6  | 8210.1E6  | 716.748 | 703.843 |
| 13) T                       | 2,4-DB       | 10.194 | 10.920 | 1239.1E6  | 667.1E6   | 709.189 | 690.644 |
| 14) T                       | DINOSEB      | 11.402 | 11.300 | 8049.4E6  | 6477.8E6  | 702.178 | 693.561 |
| 15) T                       | Picloram     | 11.222 | 12.420 | 7807.1E6  | 11264.6E6 | 666.723 | 658.944 |
| 16) T                       | DCPA         | 11.700 | 12.343 | 15166.4E6 | 13432.2E6 | 731.399 | 720.155 |
| -----                       |              |        |        |           |           |         |         |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031301.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 30 Jul 2025 02:57  
Operator : AR\AJ  
Sample : HSTDCCC750  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

## Instrument :

ECD\_S

## ClientSampleId :

HSTDCCC750

## Manual Integrations

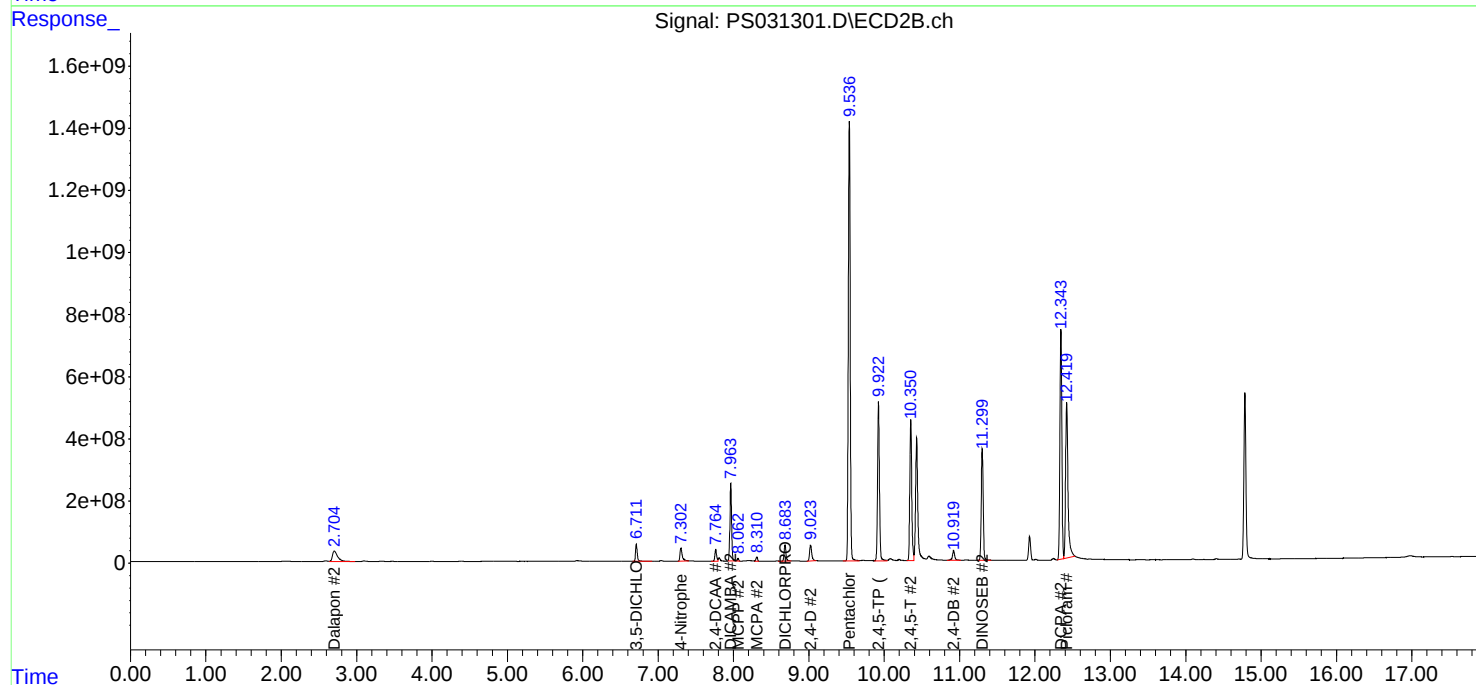
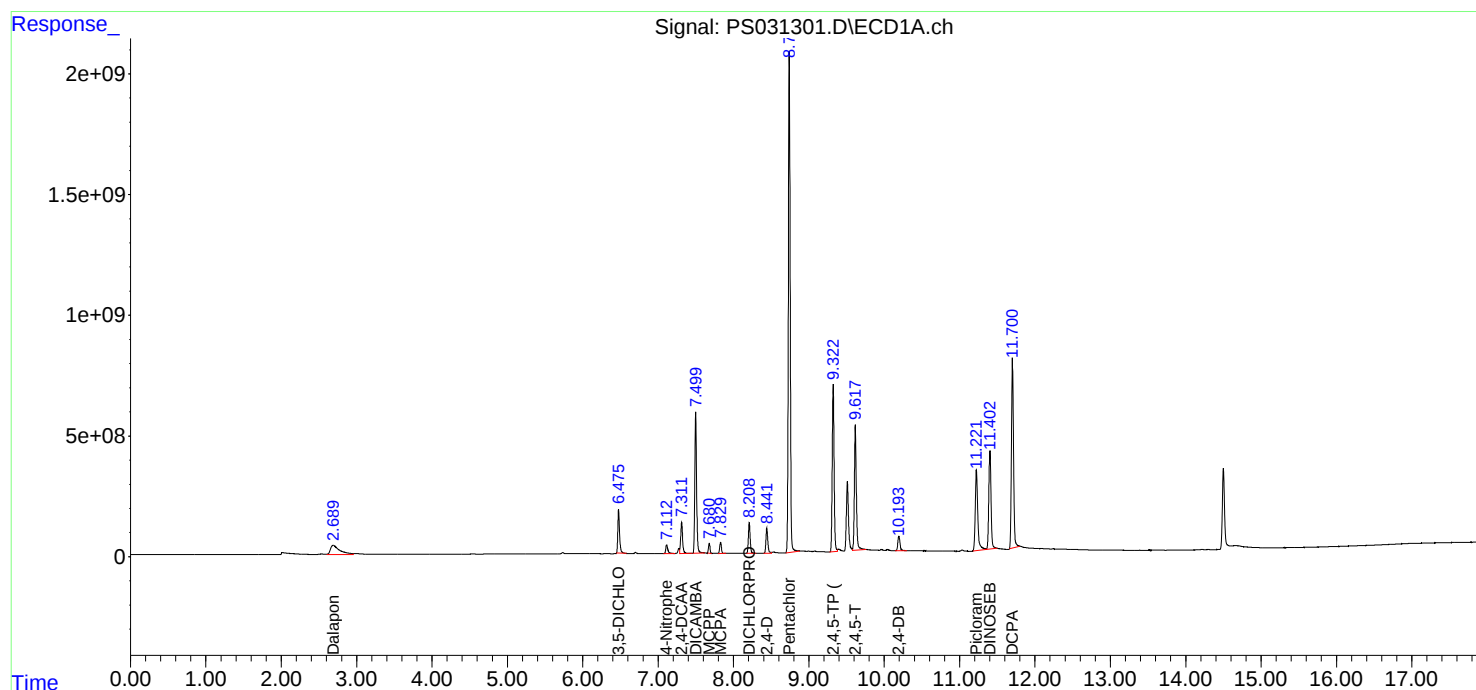
## APPROVED

Reviewed By :Abdul Mirza 07/30/2025

Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 03:16:38 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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



## Analytical Sequence

**Client:** Core Environmental Consultants and Servi      **SDG No.:** Q2681  
**Project:** NYPA      **Instrument ID:** ECD\_S  
**GC Column:** RTX-CLP      **ID:** 0.32 (mm)      **Inst. Calib. Date(s):** 07/29/2025      07/29/2025

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

| CLIENT ID                  | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | DATAFILE   | DCAA<br>RT # | RT # |
|----------------------------|------------------|------------------|------------------|------------|--------------|------|
| IBLK                       | IBLK             | 07/29/2025       | 16:06            | PS031274.D | 7.32         | 0.00 |
| HSTDICC200                 | HSTDICC200       | 07/29/2025       | 16:30            | PS031275.D | 7.32         | 0.00 |
| HSTDICC500                 | HSTDICC500       | 07/29/2025       | 16:54            | PS031276.D | 7.32         | 0.00 |
| HSTDICC750                 | HSTDICC750       | 07/29/2025       | 17:18            | PS031277.D | 7.32         | 0.00 |
| HSTDICC1000                | HSTDICC1000      | 07/29/2025       | 17:42            | PS031278.D | 7.32         | 0.00 |
| HSTDICC1500                | HSTDICC1500      | 07/29/2025       | 18:07            | PS031279.D | 7.32         | 0.00 |
| IBLK                       | IBLK             | 07/29/2025       | 23:21            | PS031292.D | 7.31         | 0.00 |
| HSTDCCC750                 | HSTDCCC750       | 07/29/2025       | 23:45            | PS031293.D | 7.31         | 0.00 |
| PB169037BL                 | PB169037BL       | 07/30/2025       | 00:09            | PS031294.D | 7.31         | 0.00 |
| PB169037BS                 | PB169037BS       | 07/30/2025       | 00:33            | PS031295.D | 7.31         | 0.00 |
| PB168986TB                 | PB168986TB       | 07/30/2025       | 00:57            | PS031296.D | 7.31         | 0.00 |
| NYPA-POUCH-SPENT-CARBON    | Q2681-01         | 07/30/2025       | 01:20            | PS031297.D | 7.31         | 0.00 |
| NYPA-POUCH-SPENT-CARBONMS  | Q2681-01MS       | 07/30/2025       | 01:44            | PS031298.D | 7.31         | 0.00 |
| NYPA-POUCH-SPENT-CARBONMSD | Q2681-01MSD      | 07/30/2025       | 02:09            | PS031299.D | 7.31         | 0.00 |
| IBLK                       | IBLK             | 07/30/2025       | 02:33            | PS031300.D | 7.31         | 0.00 |
| HSTDCCC750                 | HSTDCCC750       | 07/30/2025       | 02:57            | PS031301.D | 7.31         | 0.00 |

## Analytical Sequence

|                                                  |                                                           |
|--------------------------------------------------|-----------------------------------------------------------|
| Client: Core Environmental Consultants and Servi | SDG No.: Q2681                                            |
| Project: NYPA                                    | Instrument ID: ECD_S                                      |
| GC Column: RTX-CLP2                              | ID: 0.32 (mm) Inst. Calib. Date(s): 07/29/2025 07/29/2025 |

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

| CLIENT ID                  | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | DATAFILE   | DCAA<br>RT # | RT # |
|----------------------------|------------------|------------------|------------------|------------|--------------|------|
| IBLK                       | IBLK             | 07/29/2025       | 16:06            | PS031274.D | 7.77         | 0.00 |
| HSTDICC200                 | HSTDICC200       | 07/29/2025       | 16:30            | PS031275.D | 7.77         | 0.00 |
| HSTDICC500                 | HSTDICC500       | 07/29/2025       | 16:54            | PS031276.D | 7.77         | 0.00 |
| HSTDICC750                 | HSTDICC750       | 07/29/2025       | 17:18            | PS031277.D | 7.77         | 0.00 |
| HSTDICC1000                | HSTDICC1000      | 07/29/2025       | 17:42            | PS031278.D | 7.76         | 0.00 |
| HSTDICC1500                | HSTDICC1500      | 07/29/2025       | 18:07            | PS031279.D | 7.76         | 0.00 |
| IBLK                       | IBLK             | 07/29/2025       | 23:21            | PS031292.D | 7.77         | 0.00 |
| HSTDCCC750                 | HSTDCCC750       | 07/29/2025       | 23:45            | PS031293.D | 7.77         | 0.00 |
| PB169037BL                 | PB169037BL       | 07/30/2025       | 00:09            | PS031294.D | 7.76         | 0.00 |
| PB169037BS                 | PB169037BS       | 07/30/2025       | 00:33            | PS031295.D | 7.77         | 0.00 |
| PB168986TB                 | PB168986TB       | 07/30/2025       | 00:57            | PS031296.D | 7.76         | 0.00 |
| NYPA-POUCH-SPENT-CARBON    | Q2681-01         | 07/30/2025       | 01:20            | PS031297.D | 7.76         | 0.00 |
| NYPA-POUCH-SPENT-CARBONMS  | Q2681-01MS       | 07/30/2025       | 01:44            | PS031298.D | 7.76         | 0.00 |
| NYPA-POUCH-SPENT-CARBONMSD | Q2681-01MSD      | 07/30/2025       | 02:09            | PS031299.D | 7.76         | 0.00 |
| IBLK                       | IBLK             | 07/30/2025       | 02:33            | PS031300.D | 7.77         | 0.00 |
| HSTDCCC750                 | HSTDCCC750       | 07/30/2025       | 02:57            | PS031301.D | 7.76         | 0.00 |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

NYPA-POUCH-SPENT-CARBOI

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Lab Sample ID: Q2681-01MS

Date(s) Analyzed: 07/30/2025 07/30/2025

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   | 8.44 | 8.39      | 8.49 | 57.9          | 1    |
|                  | 2   | 9.02 | 8.97      | 9.07 | 58.5          |      |
| 2,4,5-TP(Silvex) | 1   | 9.32 | 9.27      | 9.37 | 54.2          | 21.6 |
|                  | 2   | 9.92 | 9.87      | 9.97 | 67.3          |      |

# COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

NYPA-POUCH-SPENT-CARBOI

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Lab Sample ID: Q2681-01MSD

Date(s) Analyzed: 07/30/2025 07/30/2025

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   | 8.44 | 8.39      | 8.49 | 57.6          | 1.2  |
|                  | 2   | 9.02 | 8.97      | 9.07 | 58.3          |      |
| 2,4,5-TP(Silvex) | 1   | 9.32 | 9.27      | 9.37 | 53.8          | 23.5 |
|                  | 2   | 9.92 | 9.87      | 9.97 | 68.1          |      |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB169037BS

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q2681

Lab Sample ID: PB169037BS

Date(s) Analyzed: 07/30/2025 07/30/2025

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   | 8.44 | 8.39      | 8.49 | 4.70          | 0    |
|                  | 2   | 9.03 | 8.98      | 9.08 | 4.70          |      |
| 2,4,5-TP(Silvex) | 1   | 9.32 | 9.27      | 9.37 | 4.80          | 0    |
|                  | 2   | 9.92 | 9.87      | 9.97 | 4.80          |      |



# QC SAMPLE DATA

## Report of Analysis

|                    |                                                   |                    |                  |
|--------------------|---------------------------------------------------|--------------------|------------------|
| Client:            | Core Environmental Consultants and Services, Inc. | Date Collected:    |                  |
| Project:           | NYPA                                              | Date Received:     |                  |
| Client Sample ID:  | PB169037BL                                        | SDG No.:           | Q2681            |
| Lab Sample ID:     | PB169037BL                                        | Matrix:            | TCLP             |
| Analytical Method: | 8151A                                             | % 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 |
| PS031294.D        | 1         | 07/29/25 08:47 | 07/30/25 00:09 | PB169037      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |          |            |          |
| 94-75-7           | 2,4-D             | 2.00  | U         | 0.92     | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 2.00  | U         | 0.78     | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |          |            |          |
| 19719-28-9        | 2,4-DCAA          | 466   |           | 61 - 136 | 93%        | 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\PS072925\  
 Data File : PS031294.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 30 Jul 2025 00:09  
 Operator : AR\AJ  
 Sample : PB169037BL  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 PB169037BL

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 30 02:09:30 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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 | 7.313 | 7.764 | 1239.8E6 | 388.7E6 | 425.550 | 465.507 |
|------|----------|-------|-------|----------|---------|---------|---------|

Target Compounds

-----

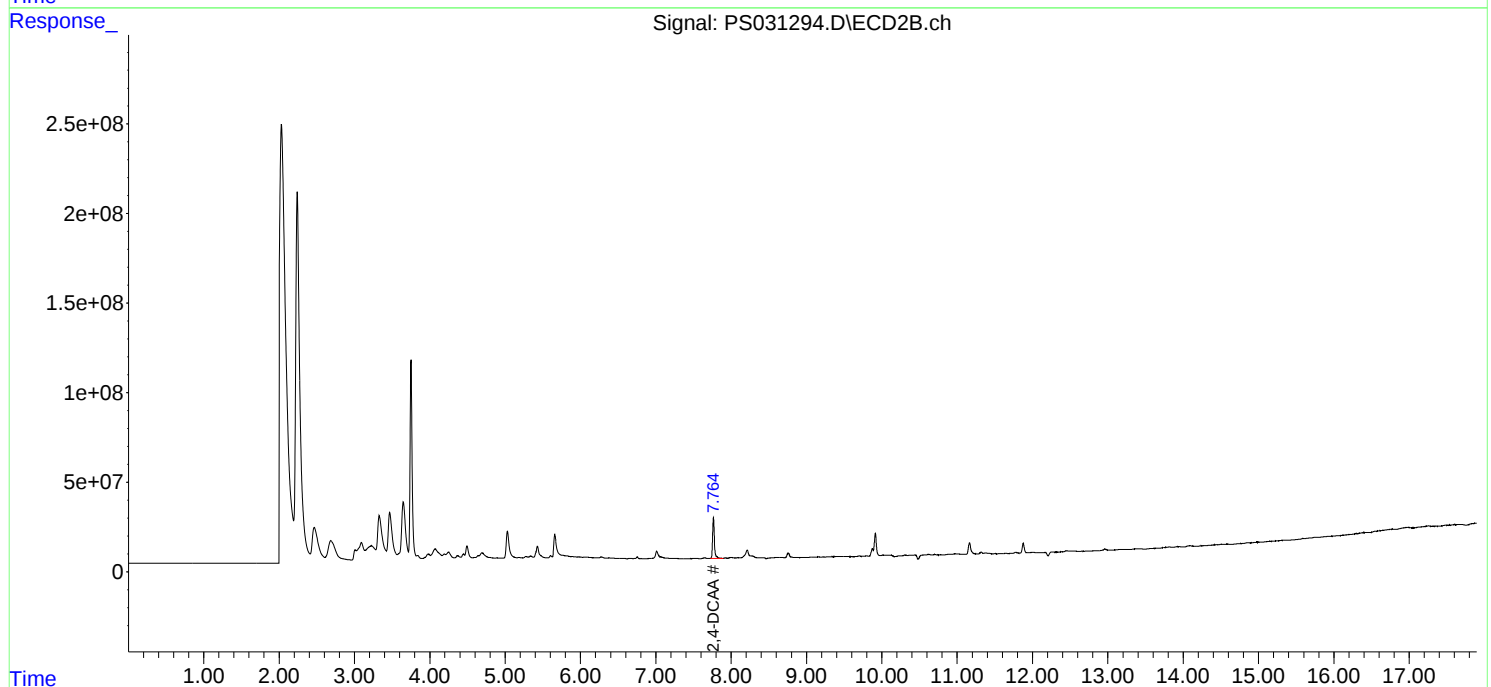
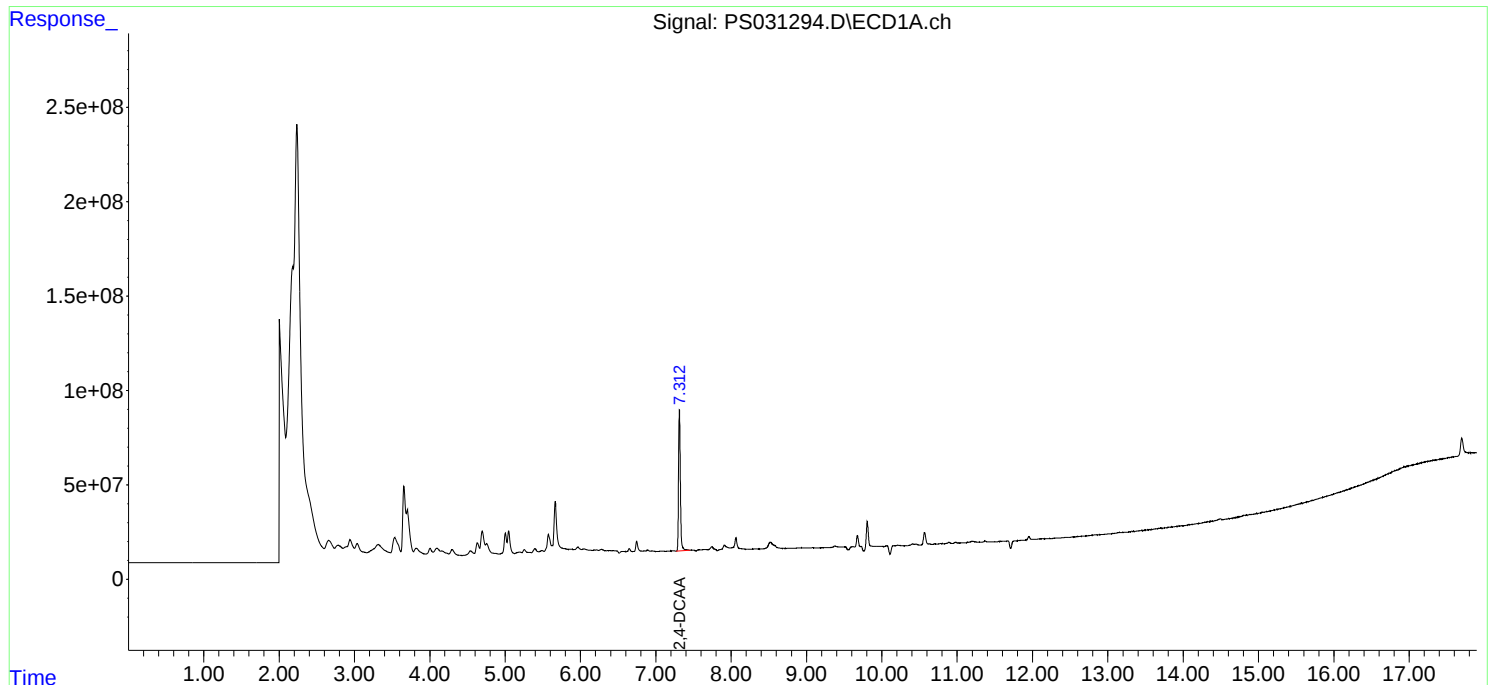
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

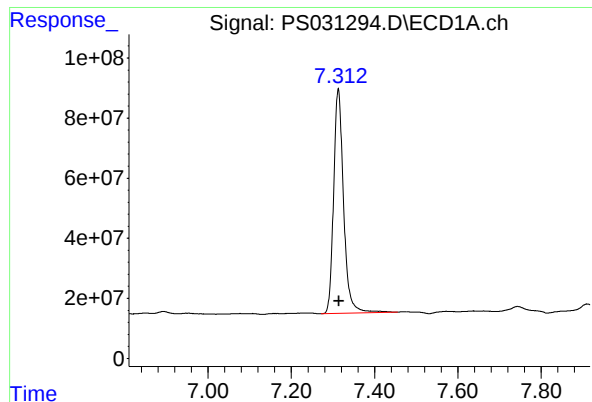
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031294.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 30 Jul 2025 00:09  
Operator : AR\AJ  
Sample : PB169037BL  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
PB169037BL

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 02:09:30 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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

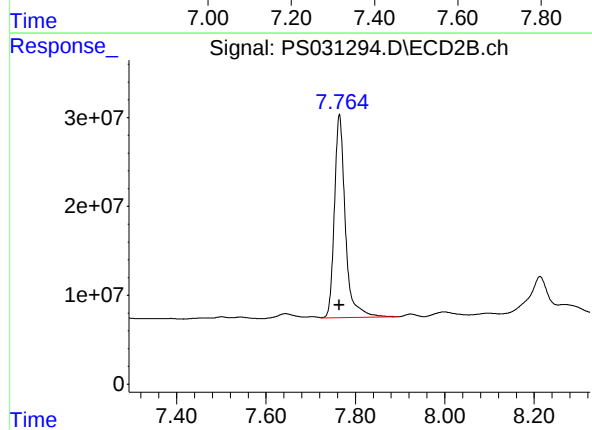




#4 2,4-DCAA

R.T.: 7.313 min  
Delta R.T.: -0.002 min  
Response: 1239797824  
Conc: 425.55 ng/ml

Instrument :  
ECD\_S  
ClientSampleId :  
PB169037BL



#4 2,4-DCAA

R.T.: 7.764 min  
Delta R.T.: 0.000 min  
Response: 388736278  
Conc: 465.51 ng/ml

## Report of Analysis

|                    |                                                   |                    |                |
|--------------------|---------------------------------------------------|--------------------|----------------|
| Client:            | Core Environmental Consultants and Services, Inc. | Date Collected:    | 07/29/25       |
| Project:           | NYPA                                              | Date Received:     | 07/29/25       |
| Client Sample ID:  | PIBLK-PS031274.D                                  | SDG No.:           | Q2681          |
| Lab Sample ID:     | I.BLK-PS031274.D                                  | Matrix:            | TCLP           |
| Analytical Method: | 8151A                                             | % Solid:           | 0              |
| Sample Wt/Vol:     | 1000                                              | Units:             | mL             |
| Soil Aliquot Vol:  |                                                   |                    | uL             |
| Extraction Type:   |                                                   | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                                               | PH :               |                |
| Prep Method :      | SW3510C                                           | Injection Volume : |                |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PS031274.D        | 1         |           | 07/29/25      | PS072925      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |          |            |          |
| 94-75-7           | 2,4-D             | 2.00  | U         | 0.92     | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 2.00  | U         | 0.78     | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |          |            |          |
| 19719-28-9        | 2,4-DCAA          | 491   |           | 61 - 136 | 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\PS072925\  
Data File : PS031274.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 16:06  
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: Jul 29 18:39:10 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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               | 7.316 | 7.766 | 1175.8E6 | 409.9E6 | 403.573 | 490.802 |

Target Compounds

-----

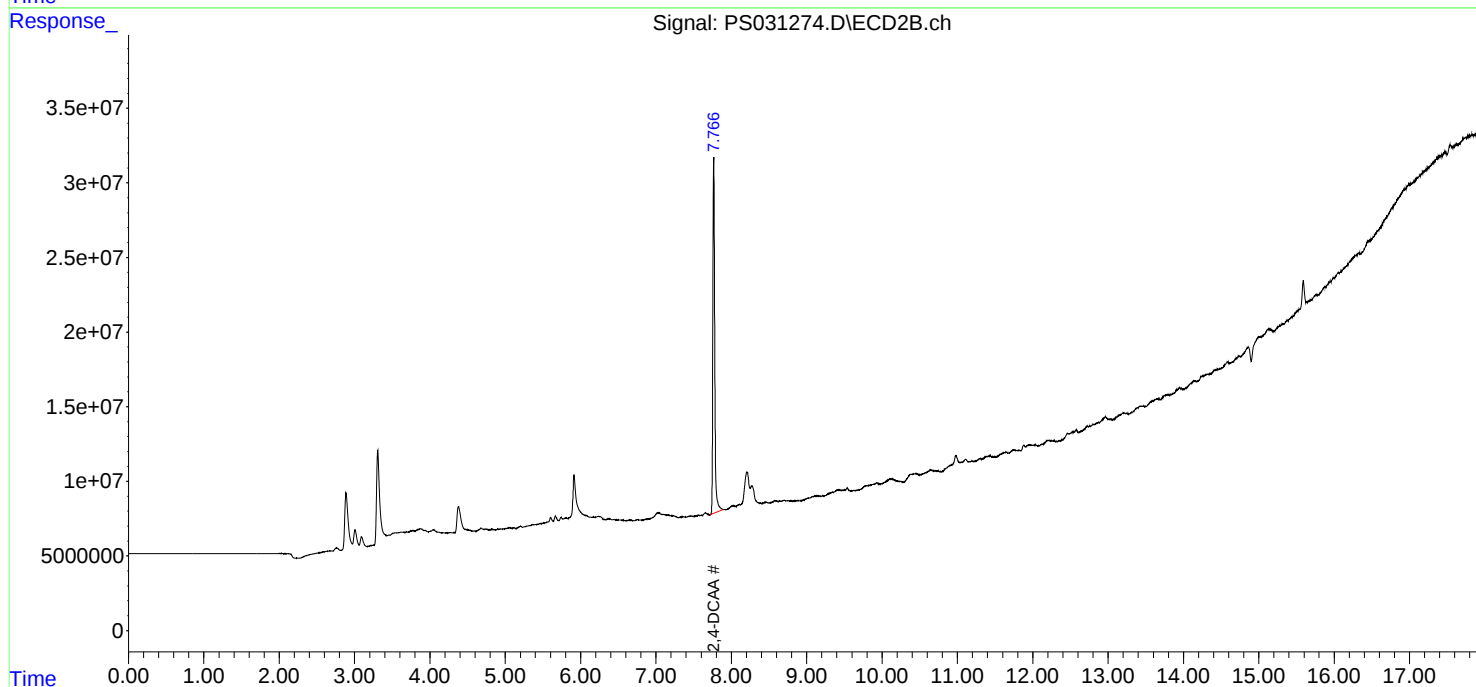
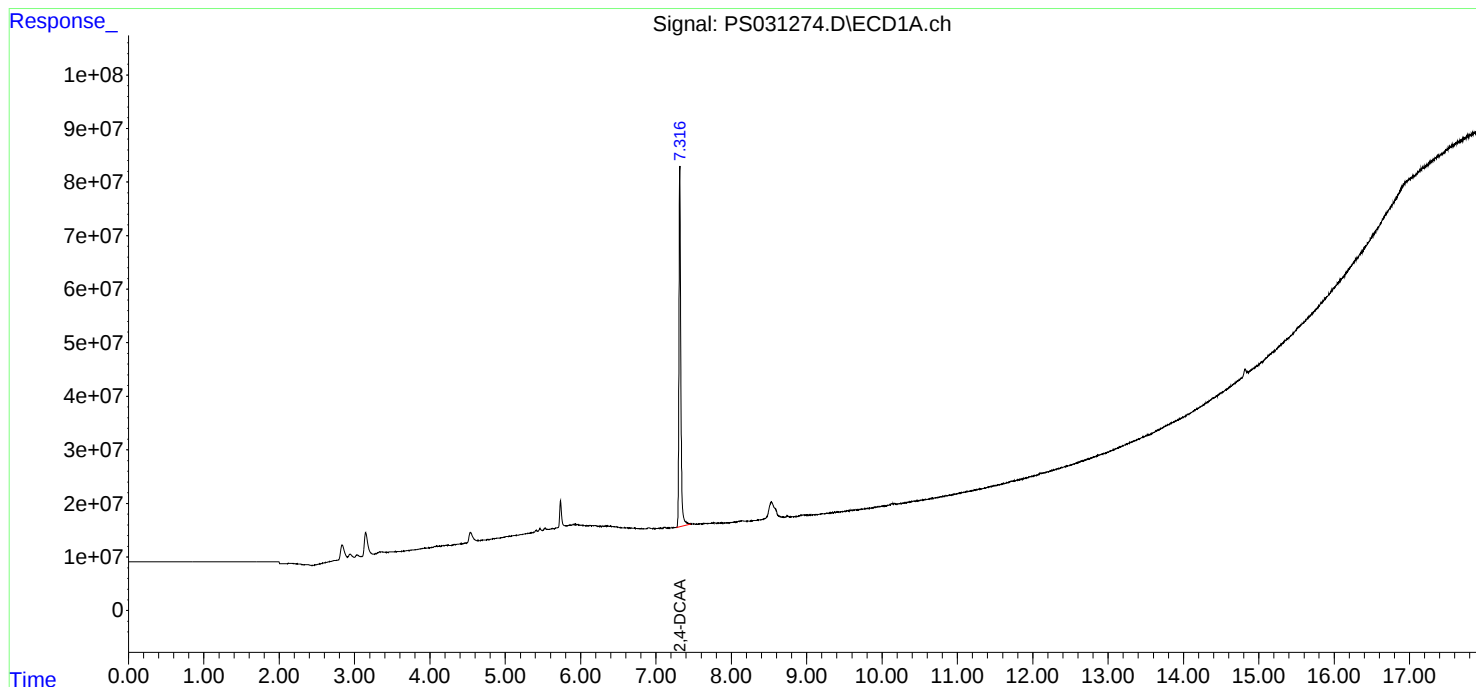
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

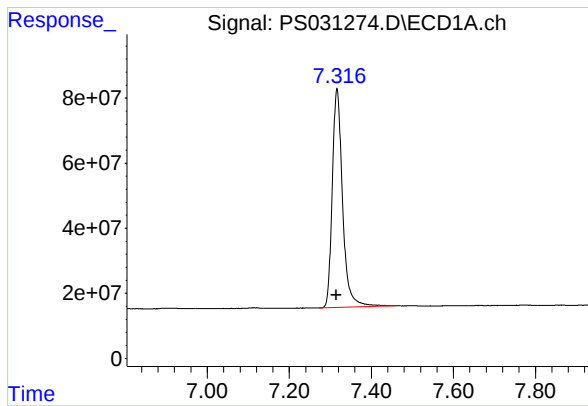
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031274.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 16:06  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 29 18:39:10 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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.: 7.316 min

Delta R.T.: 0.002 min

Response: 1175772628

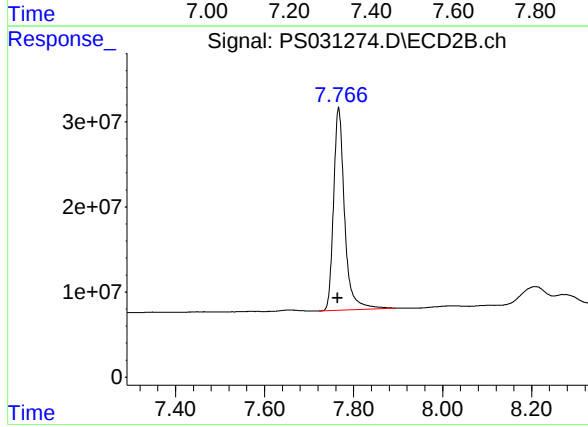
Conc: 403.57 ng/ml

Instrument :

ECD\_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.766 min

Delta R.T.: 0.002 min

Response: 409859184

Conc: 490.80 ng/ml

## Report of Analysis

|                    |                                                   |                    |                |
|--------------------|---------------------------------------------------|--------------------|----------------|
| Client:            | Core Environmental Consultants and Services, Inc. | Date Collected:    | 07/29/25       |
| Project:           | NYPA                                              | Date Received:     | 07/29/25       |
| Client Sample ID:  | PIBLK-PS031292.D                                  | SDG No.:           | Q2681          |
| Lab Sample ID:     | I.BLK-PS031292.D                                  | Matrix:            | TCLP           |
| Analytical Method: | 8151A                                             | % Solid:           | 0              |
| Sample Wt/Vol:     | 1000                                              | Units:             | mL             |
| Soil Aliquot Vol:  |                                                   |                    | uL             |
| Extraction Type:   |                                                   | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                                               | PH :               |                |
| Prep Method :      | SW3510C                                           | Injection Volume : |                |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PS031292.D        | 1         |           | 07/29/25      | PS072925      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |          |            |          |
| 94-75-7           | 2,4-D             | 2.00  | U         | 0.92     | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 2.00  | U         | 0.78     | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |          |            |          |
| 19719-28-9        | 2,4-DCAA          | 476   |           | 61 - 136 | 95%        | 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\PS072925\  
 Data File : PS031292.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 29 Jul 2025 23:21  
 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: Jul 30 02:09:06 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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 |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

#### System Monitoring Compounds

|      |          |       |       |          |         |         |         |
|------|----------|-------|-------|----------|---------|---------|---------|
| 4) S | 2,4-DCAA | 7.312 | 7.765 | 1195.3E6 | 397.4E6 | 410.273 | 475.927 |
|------|----------|-------|-------|----------|---------|---------|---------|

#### Target Compounds

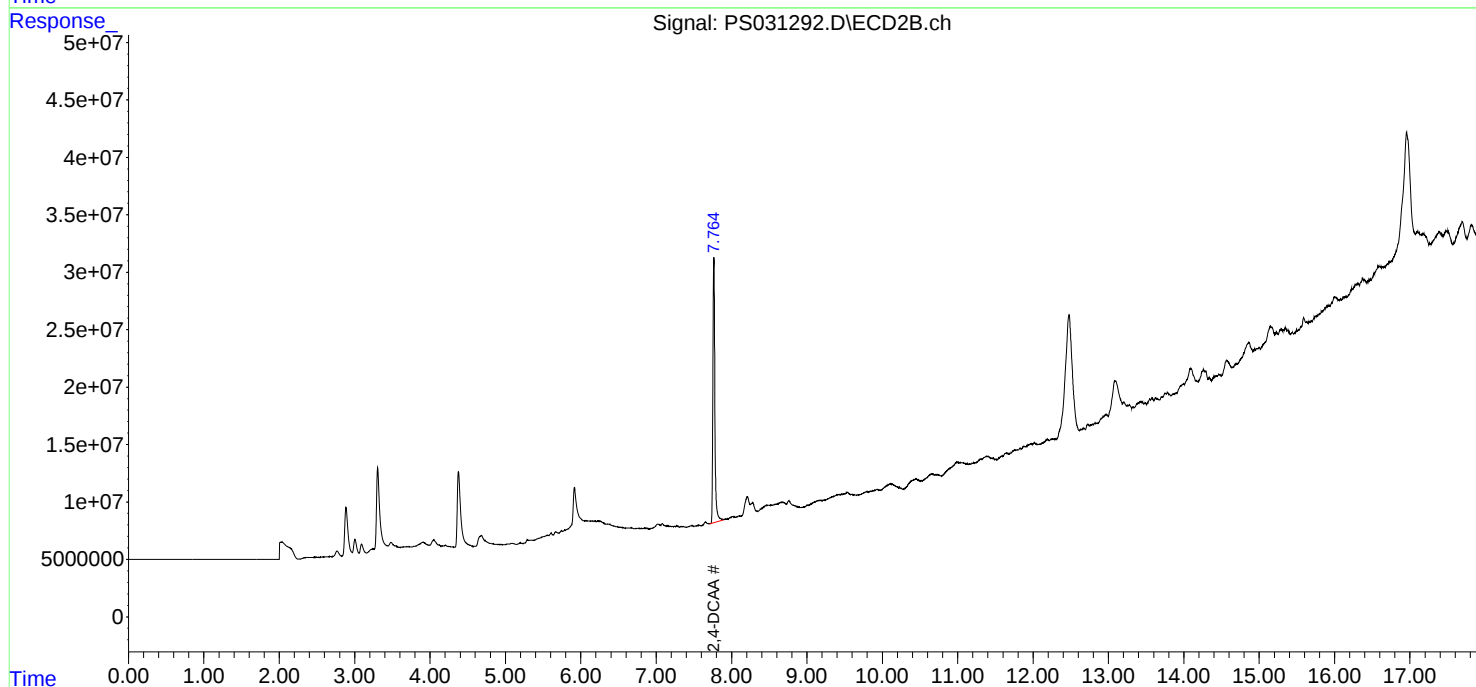
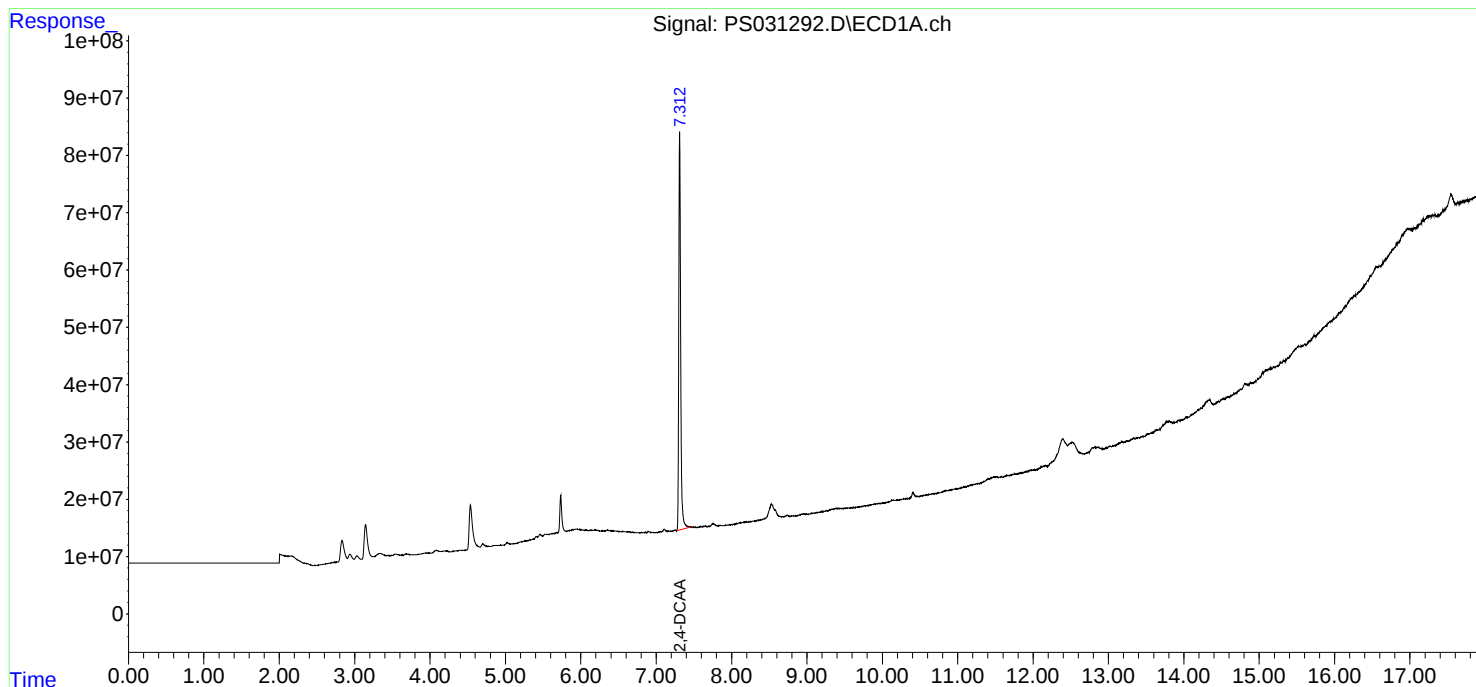
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

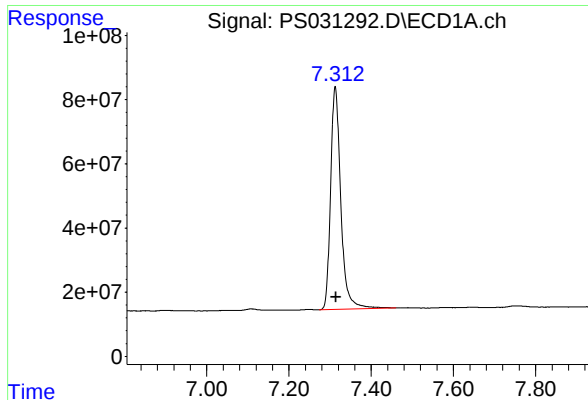
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031292.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 29 Jul 2025 23:21  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 02:09:06 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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.: 7.312 min

Delta R.T.: -0.002 min

Response: 1195292551

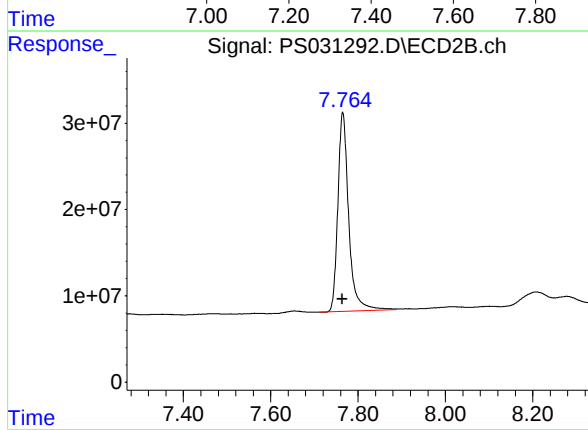
Conc: 410.27 ng/ml

Instrument :

ECD\_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.765 min

Delta R.T.: 0.000 min

Response: 397437936

Conc: 475.93 ng/ml

## Report of Analysis

|                    |                                                   |                    |                |
|--------------------|---------------------------------------------------|--------------------|----------------|
| Client:            | Core Environmental Consultants and Services, Inc. | Date Collected:    | 07/30/25       |
| Project:           | NYPA                                              | Date Received:     | 07/30/25       |
| Client Sample ID:  | PIBLK-PS031300.D                                  | SDG No.:           | Q2681          |
| Lab Sample ID:     | I.BLK-PS031300.D                                  | Matrix:            | TCLP           |
| Analytical Method: | 8151A                                             | % Solid:           | 0              |
| Sample Wt/Vol:     | 1000                                              | Units:             | mL             |
| Soil Aliquot Vol:  |                                                   |                    | uL             |
| Extraction Type:   |                                                   | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                                               | PH :               |                |
| Prep Method :      | SW3510C                                           | Injection Volume : |                |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PS031300.D        | 1         |           | 07/30/25      | PS072925      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |          |            |          |
| 94-75-7           | 2,4-D             | 2.00  | U         | 0.92     | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 2.00  | U         | 0.78     | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |          |            |          |
| 19719-28-9        | 2,4-DCAA          | 491   |           | 61 - 136 | 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\PS072925\  
Data File : PS031300.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 30 Jul 2025 02:33  
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: Jul 30 03:02:44 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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               | 7.313 | 7.765 | 1201.8E6 | 410.1E6 | 412.517 | 491.036 |

Target Compounds

-----

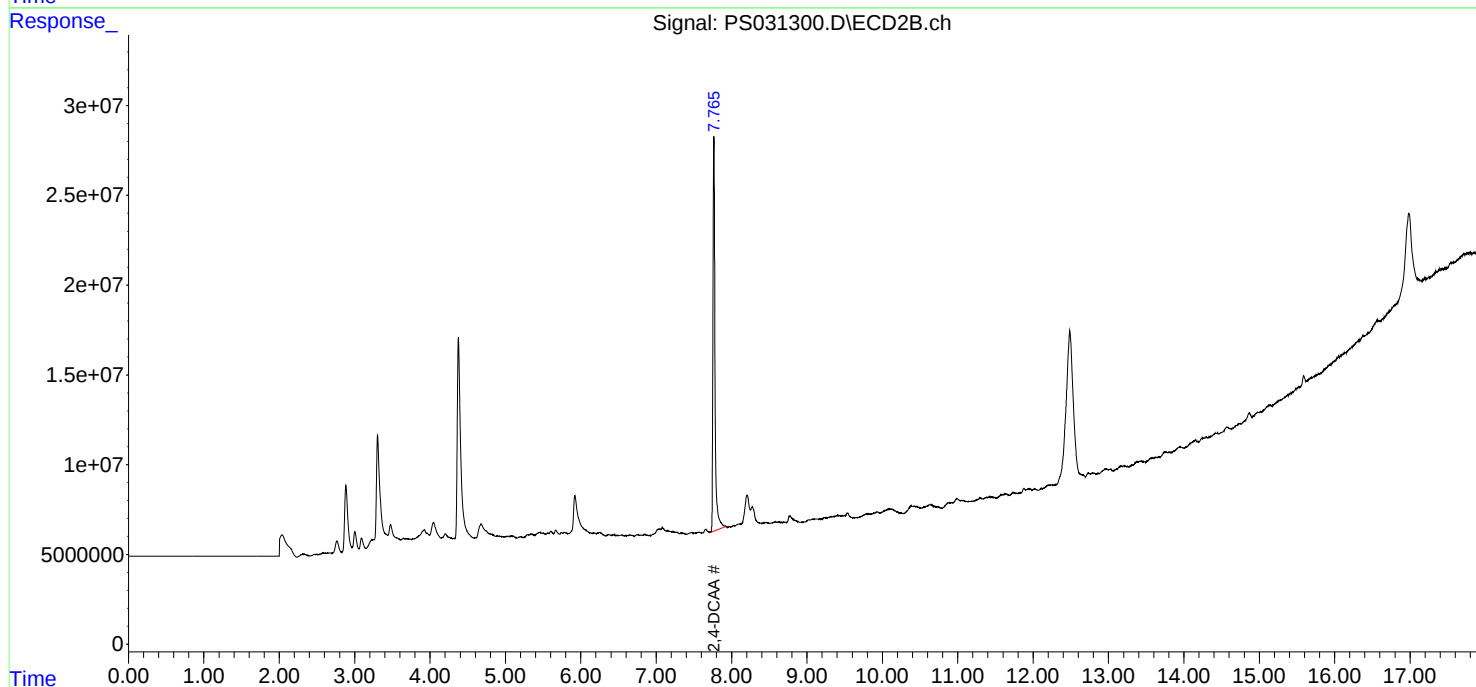
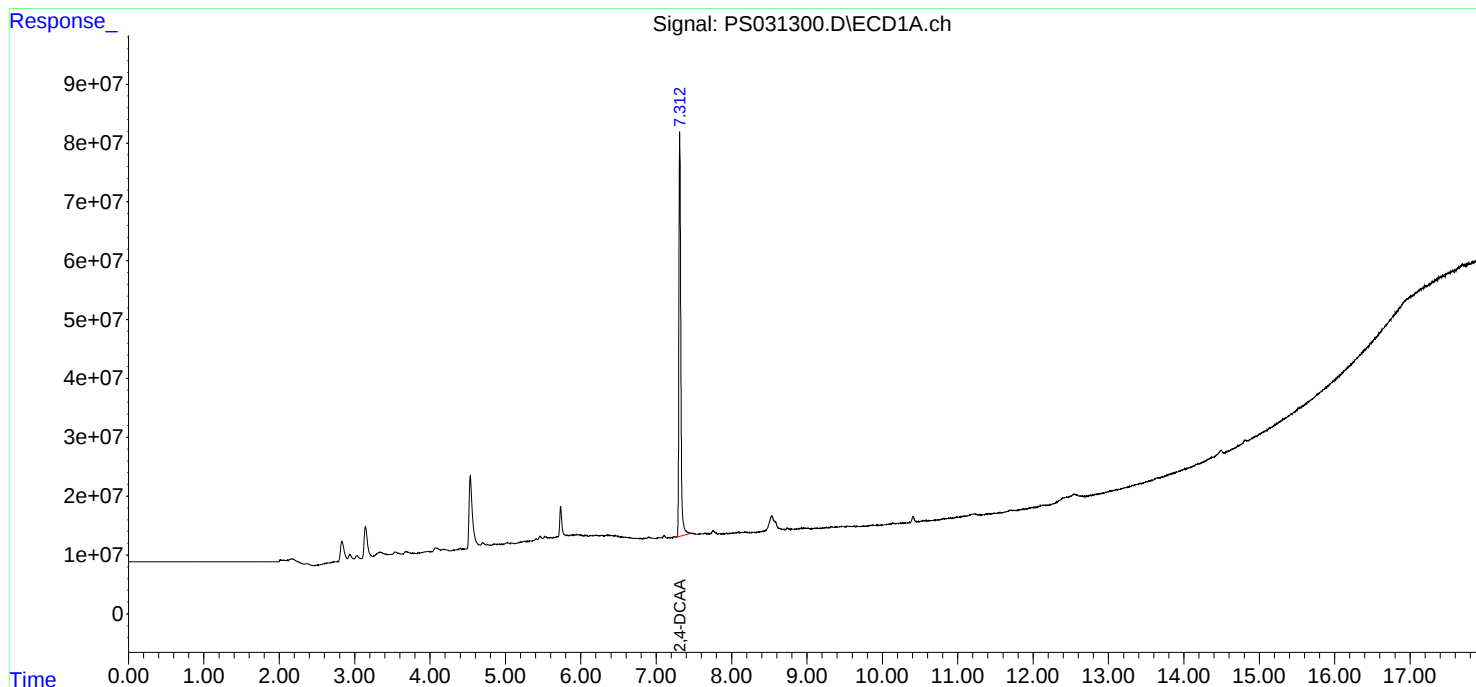
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

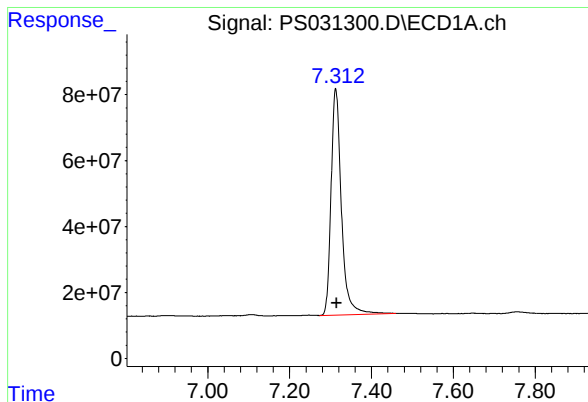
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031300.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 30 Jul 2025 02:33  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 03:02:44 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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

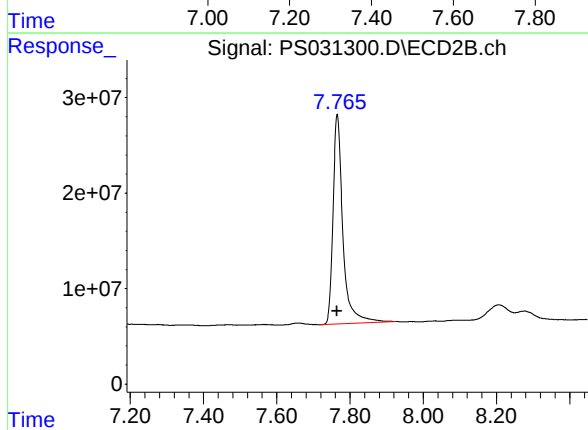




#4 2,4-DCAA

R.T.: 7.313 min  
Delta R.T.: -0.002 min  
Response: 1201827689  
Conc: 412.52 ng/ml

Instrument :  
ECD\_S  
ClientSampleId :  
I.BLK



#4 2,4-DCAA

R.T.: 7.765 min  
Delta R.T.: 0.000 min  
Response: 410055211  
Conc: 491.04 ng/ml

## Report of Analysis

|                    |                                                   |                    |                  |
|--------------------|---------------------------------------------------|--------------------|------------------|
| Client:            | Core Environmental Consultants and Services, Inc. | Date Collected:    |                  |
| Project:           | NYPA                                              | Date Received:     |                  |
| Client Sample ID:  | PB169037BS                                        | SDG No.:           | Q2681            |
| Lab Sample ID:     | PB169037BS                                        | Matrix:            | TCLP             |
| Analytical Method: | 8151A                                             | % 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 |
| PS031295.D        | 1         | 07/29/25 08:47 | 07/30/25 00:33 | PB169037      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |          |            |          |
| 94-75-7           | 2,4-D             | 4.70  |           | 0.92     | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 4.80  |           | 0.78     | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |          |            |          |
| 19719-28-9        | 2,4-DCAA          | 520   |           | 61 - 136 | 104%       | 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 &gt;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\PS072925\  
 Data File : PS031295.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 30 Jul 2025 00:33  
 Operator : AR\AJ  
 Sample : PB169037BS  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 PB169037BS

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 30 02:09:42 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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     | 7.313  | 7.765  | 1515.9E6  | 420.6E6   | 520.302 | 503.651 |
| Target Compounds            |              |        |        |           |           |         |         |
| 1) T                        | Dalapon      | 2.686  | 2.703  | 2259.1E6  | 1138.4E6  | 468.248 | 463.478 |
| 2) T                        | 3,5-DICHL... | 6.476  | 6.712  | 1979.3E6  | 612.8E6   | 464.306 | 474.169 |
| 3) T                        | 4-Nitroph... | 7.115  | 7.306  | 475.2E6   | 564.3E6   | 466.747 | 437.147 |
| 5) T                        | DICAMBA      | 7.500  | 7.964  | 6230.0E6  | 2539.7E6  | 482.179 | 468.497 |
| 6) T                        | MCP          | 7.679  | 8.061  | 364.5E6   | 81430768  | 45.326  | 47.638  |
| 7) T                        | MCPA         | 7.829  | 8.309  | 460.6E6   | 124.9E6   | 47.115  | 48.151  |
| 8) T                        | DICHLORPROP  | 8.211  | 8.684  | 1460.0E6  | 623.2E6   | 480.259 | 479.365 |
| 9) T                        | 2,4-D        | 8.444  | 9.025  | 1223.7E6  | 658.9E6   | 471.870 | 472.137 |
| 10) T                       | Pentachlo... | 8.742  | 9.536  | 23647.5E6 | 16530.8E6 | 519.967 | 493.511 |
| 11) T                       | 2,4,5-TP ... | 9.324  | 9.923  | 8061.8E6  | 6147.6E6  | 483.868 | 483.957 |
| 12) T                       | 2,4,5-T      | 9.619  | 10.352 | 6162.6E6  | 5541.7E6  | 463.327 | 475.088 |
| 13) T                       | 2,4-DB       | 10.196 | 10.921 | 788.3E6   | 455.6E6   | 451.192 | 471.680 |
| 14) T                       | DINOSEB      | 11.403 | 11.300 | 5344.6E6  | 4374.2E6  | 466.229 | 468.338 |
| 15) T                       | Picloram     | 11.225 | 12.422 | 5082.5E6  | 7601.6E6  | 434.042 | 444.669 |
| 16) T                       | DCPA         | 11.702 | 12.344 | 10050.9E6 | 9111.7E6  | 484.703 | 488.519 |
| -----                       |              |        |        |           |           |         |         |

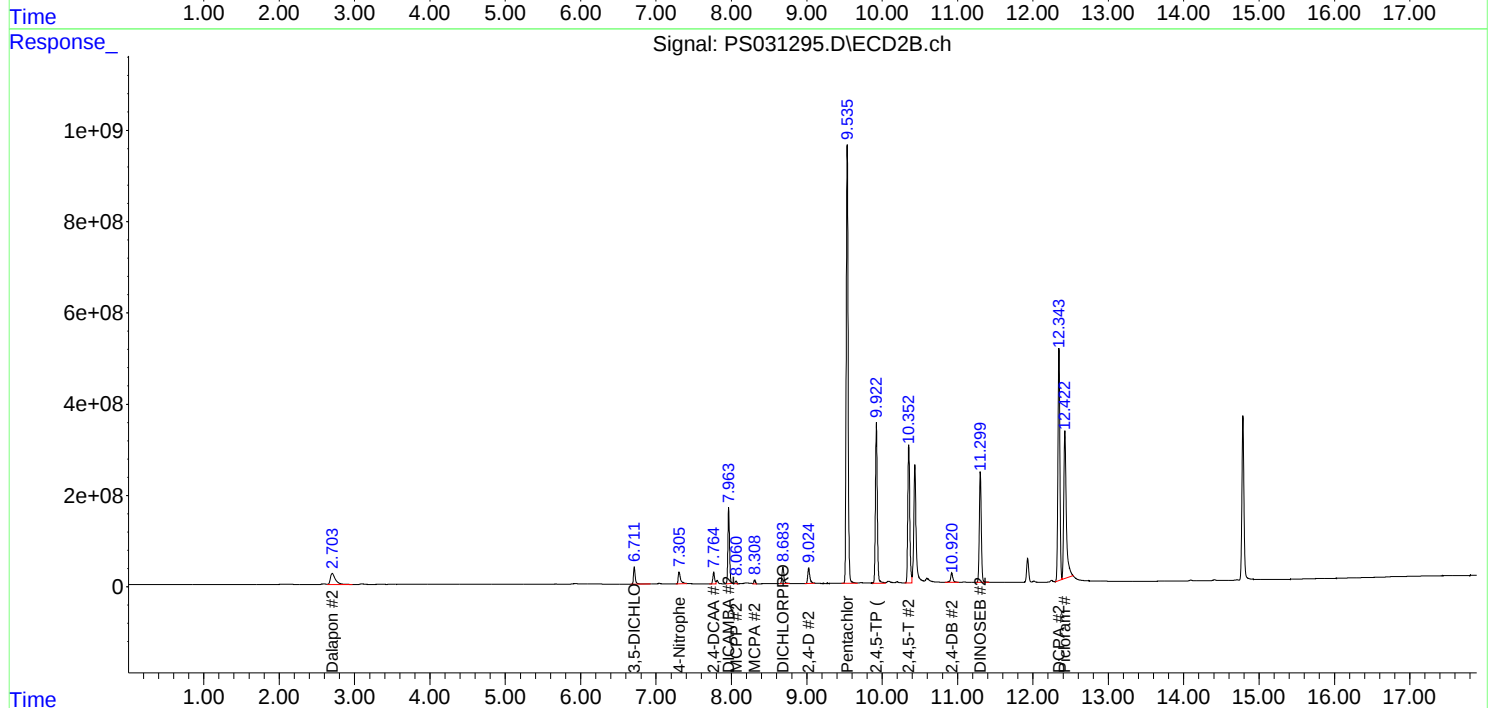
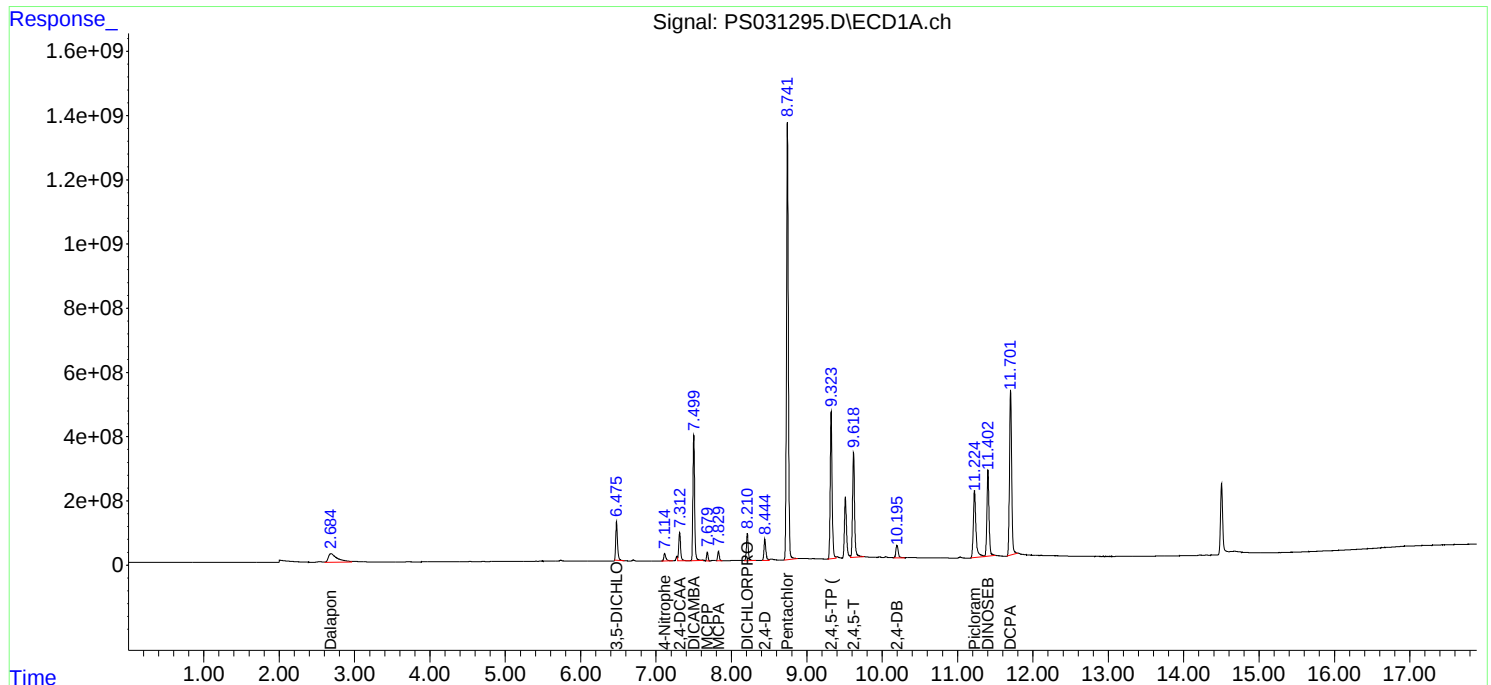
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031295.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 30 Jul 2025 00:33  
Operator : AR\AJ  
Sample : PB169037BS  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
PB169037BS

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 02:09:42 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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:            | Core Environmental Consultants and Services, Inc. | Date Collected:    | 07/23/25       |
| Project:           | NYPA                                              | Date Received:     | 07/23/25       |
| Client Sample ID:  | NYPA-POUCH-SPENT-CARBONMS                         | SDG No.:           | Q2681          |
| Lab Sample ID:     | Q2681-01MS                                        | Matrix:            | TCLP           |
| Analytical Method: | 8151A                                             | % Solid:           | 0              |
| Sample Wt/Vol:     | 100                                               | Units:             | mL             |
| Soil Aliquot Vol:  |                                                   |                    | uL             |
| Extraction Type:   |                                                   | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                                               | PH :               |                |
| Prep Method :      | SW3510C                                           | Injection Volume : |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PS031298.D        | 1         | 07/29/25 08:47 | 07/30/25 01:44 | PB169037      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |          |            |          |
| 94-75-7           | 2,4-D             | 58.5  |           | 9.20     | 20.0       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 67.3  |           | 7.80     | 20.0       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |          |            |          |
| 19719-28-9        | 2,4-DCAA          | 548   |           | 61 - 136 | 110%       | 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 &gt;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\PS072925\  
 Data File : PS031298.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 30 Jul 2025 01:44  
 Operator : AR\AJ  
 Sample : Q2681-01MS  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

**Instrument :**

ECD\_S

**ClientSampleId :**

NYPA-POUCH-SPENT-CARBONMS

**Manual Integrations****APPROVED**

Reviewed By :Abdul Mirza 07/30/2025

Supervised By :mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 30 02:45:18 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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     | 7.312  | 7.763  | 1500.1E6  | 457.6E6   | 514.904 | 547.969   |
| Target Compounds            |              |        |        |           |           |         |           |
| 1) T                        | Dalapon      | 2.687  | 2.705  | 3006.9E6  | 2313.4E6  | 623.253 | 941.882 # |
| 2) T                        | 3,5-DICHL... | 6.475  | 6.710  | 1951.9E6  | 564.9E6   | 457.878 | 437.157   |
| 5) T                        | DICAMBA      | 7.499  | 7.962  | 6129.6E6  | 2454.1E6  | 474.406 | 452.711   |
| 6) T                        | MCPPE        | 7.678  | 8.061  | 365.1E6   | 69853698  | 45.399  | 40.865    |
| 7) T                        | MCPA         | 7.828  | 8.309  | 461.1E6   | 255.5E6   | 47.166  | 98.514 #  |
| 8) T                        | DICHLORPROP  | 8.209  | 8.682  | 1531.4E6  | 591.7E6   | 503.759 | 455.130   |
| 9) T                        | 2,4-D        | 8.441  | 9.021  | 1501.8E6  | 817.1E6   | 579.108 | 585.492   |
| 10) T                       | Pentachlo... | 8.740  | 9.535  | 18806.4E6 | 12482.0E6 | 413.521 | 372.636   |
| 11) T                       | 2,4,5-TP ... | 9.323  | 9.921  | 9029.8E6  | 8548.8E6  | 541.965 | 672.989   |
| 12) T                       | 2,4,5-T      | 9.617  | 10.350 | 6703.3E6  | 5569.1E6  | 503.982 | 477.436   |
| 13) T                       | 2,4-DB       | 10.195 | 10.919 | 870.8E6   | 465.4E6   | 498.381 | 481.888   |
| 14) T                       | DINOSEB      | 11.401 | 11.299 | 3226.1E6  | 2446.2E6  | 281.421 | 261.903   |
| 15) T                       | Picloram     | 11.222 | 12.419 | 5053.0E6  | 7270.4E6  | 431.525 | 425.295   |
| 16) T                       | DCPA         | 11.700 | 12.342 | 9651.4E6  | 8706.9E6  | 465.438 | 466.814   |
| -----                       |              |        |        |           |           |         |           |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031298.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 30 Jul 2025 01:44  
Operator : AR\AJ  
Sample : Q2681-01MS  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

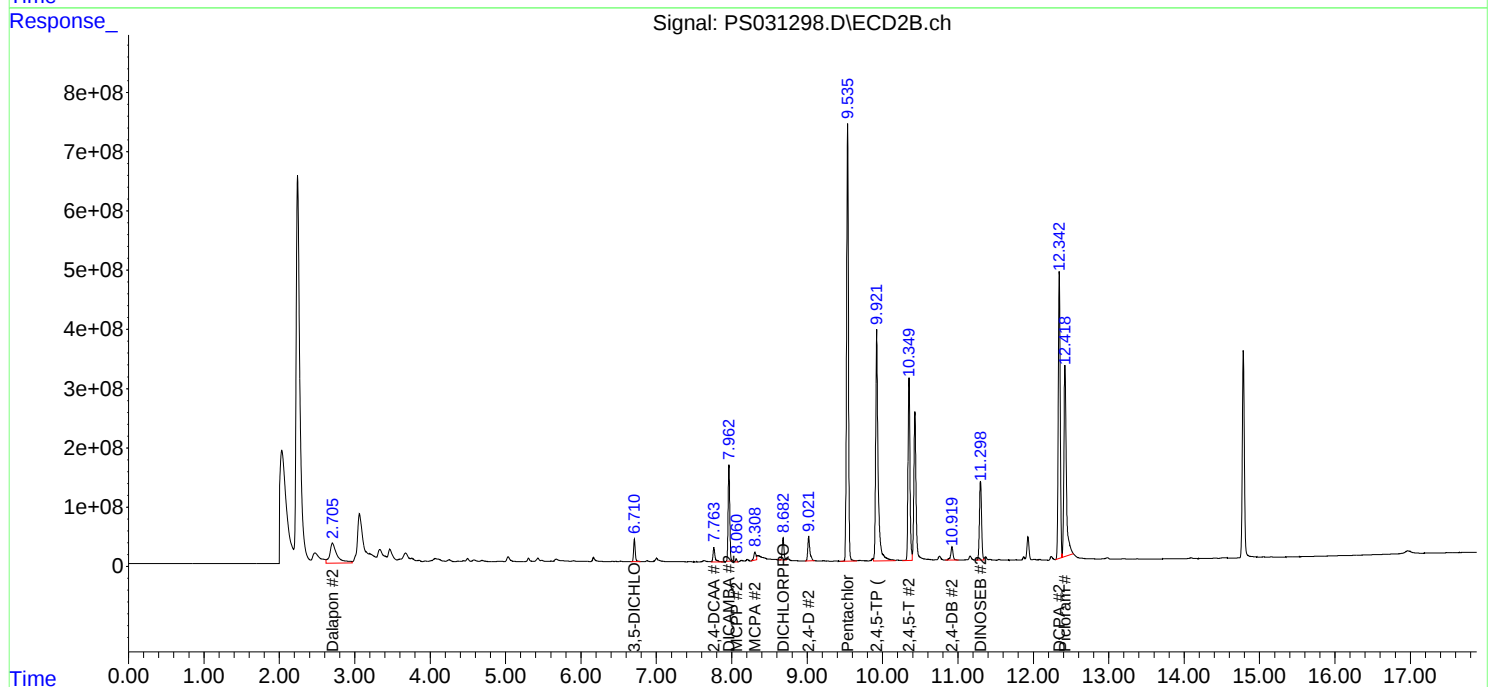
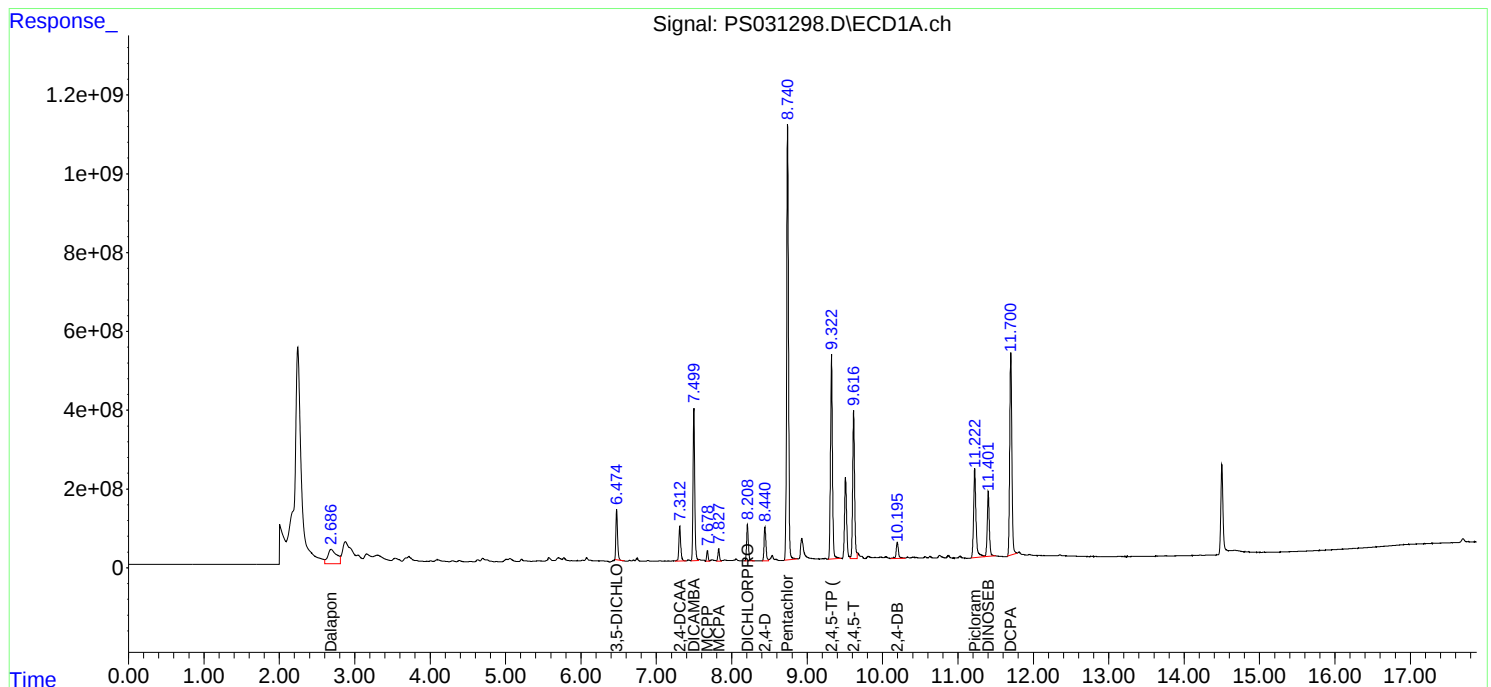
Instrument :  
ECD\_S  
ClientSampleId :  
NYPA-POUCH-SPENT-CARBONMS

Manual Integrations  
APPROVED

Reviewed By : Abdul Mirza 07/30/2025  
Supervised By : mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 02:45:18 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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:            | Core Environmental Consultants and Services, Inc. | Date Collected:    | 07/23/25       |
| Project:           | NYPA                                              | Date Received:     | 07/23/25       |
| Client Sample ID:  | NYPA-POUCH-SPENT-CARBONMSD                        | SDG No.:           | Q2681          |
| Lab Sample ID:     | Q2681-01MSD                                       | Matrix:            | TCLP           |
| Analytical Method: | 8151A                                             | % Solid:           | 0              |
| Sample Wt/Vol:     | 100                                               | Units:             | mL             |
| Soil Aliquot Vol:  |                                                   |                    | uL             |
| Extraction Type:   |                                                   | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                                               | PH :               |                |
| Prep Method :      | SW3510C                                           | Injection Volume : |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PS031299.D        | 1         | 07/29/25 08:47 | 07/30/25 02:09 | PB169037      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |          |            |          |
| 94-75-7           | 2,4-D             | 58.3  |           | 9.20     | 20.0       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 68.1  |           | 7.80     | 20.0       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |          |            |          |
| 19719-28-9        | 2,4-DCAA          | 542   |           | 61 - 136 | 108%       | SPK: 500 |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates &gt;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\PS072925\  
 Data File : PS031299.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 30 Jul 2025 02:09  
 Operator : AR\AJ  
 Sample : Q2681-01MSD  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 NYPA-POUCH-SPENT-CARBONMSD

Manual Integrations  
 APPROVED

Reviewed By : Abdul Mirza 07/30/2025  
 Supervised By : mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Jul 30 02:45:30 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
 Quant Title : 8080.M  
 QLast Update : Tue Jul 29 18:38:25 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     |
|-----------------------------|--------------|--------|--------|-----------|-----------|---------|-----------|
| -----                       |              |        |        |           |           |         |           |
| System Monitoring Compounds |              |        |        |           |           |         |           |
| 4) S                        | 2,4-DCAA     | 7.312  | 7.763  | 1493.1E6  | 452.9E6   | 512.479 | 542.309   |
| Target Compounds            |              |        |        |           |           |         |           |
| 1) T                        | Dalapon      | 2.685  | 2.703  | 2933.3E6  | 2299.7E6  | 607.988 | 936.307 # |
| 2) T                        | 3,5-DICHL... | 6.475  | 6.711  | 1932.5E6  | 561.1E6   | 453.321 | 434.202   |
| 5) T                        | DICAMBA      | 7.499  | 7.963  | 6094.6E6  | 2432.3E6  | 471.693 | 448.692   |
| 6) T                        | MCPD         | 7.679  | 8.061  | 372.1E6   | 65384079  | 46.262  | 38.250    |
| 7) T                        | MCPA         | 7.828  | 8.309  | 464.5E6   | 259.5E6   | 47.513  | 100.029 # |
| 8) T                        | DICHLORPROP  | 8.209  | 8.683  | 1530.6E6  | 586.5E6   | 503.496 | 451.132   |
| 9) T                        | 2,4-D        | 8.442  | 9.022  | 1494.9E6  | 813.1E6   | 576.426 | 582.639   |
| 10) T                       | Pentachlo... | 8.741  | 9.536  | 18625.6E6 | 12335.8E6 | 409.545 | 368.273   |
| 11) T                       | 2,4,5-TP ... | 9.322  | 9.921  | 8959.0E6  | 8644.4E6  | 537.714 | 680.510 # |
| 12) T                       | 2,4,5-T      | 9.616  | 10.351 | 7047.6E6  | 5561.2E6  | 529.865 | 476.752   |
| 13) T                       | 2,4-DB       | 10.196 | 10.920 | 873.5E6   | 461.5E6   | 499.899 | 477.833   |
| 14) T                       | DINOSEB      | 11.402 | 11.300 | 3242.2E6  | 2473.7E6  | 282.830 | 264.849   |
| 15) T                       | Picloram     | 11.222 | 12.419 | 4980.8E6  | 7062.0E6  | 425.356 | 413.105   |
| 16) T                       | DCPA         | 11.701 | 12.343 | 9566.8E6  | 8439.0E6  | 461.359 | 452.451   |
| -----                       |              |        |        |           |           |         |           |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS072925\  
Data File : PS031299.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 30 Jul 2025 02:09  
Operator : AR\AJ  
Sample : Q2681-01MSD  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

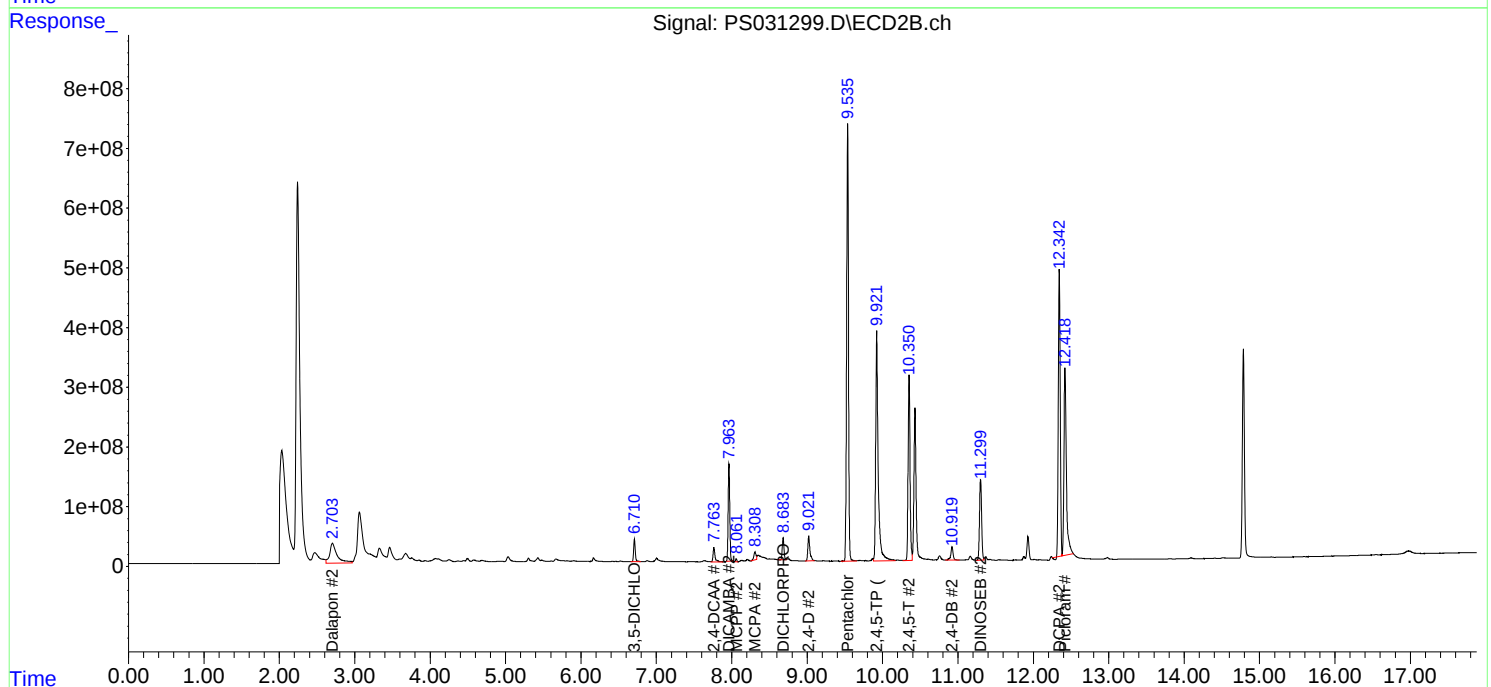
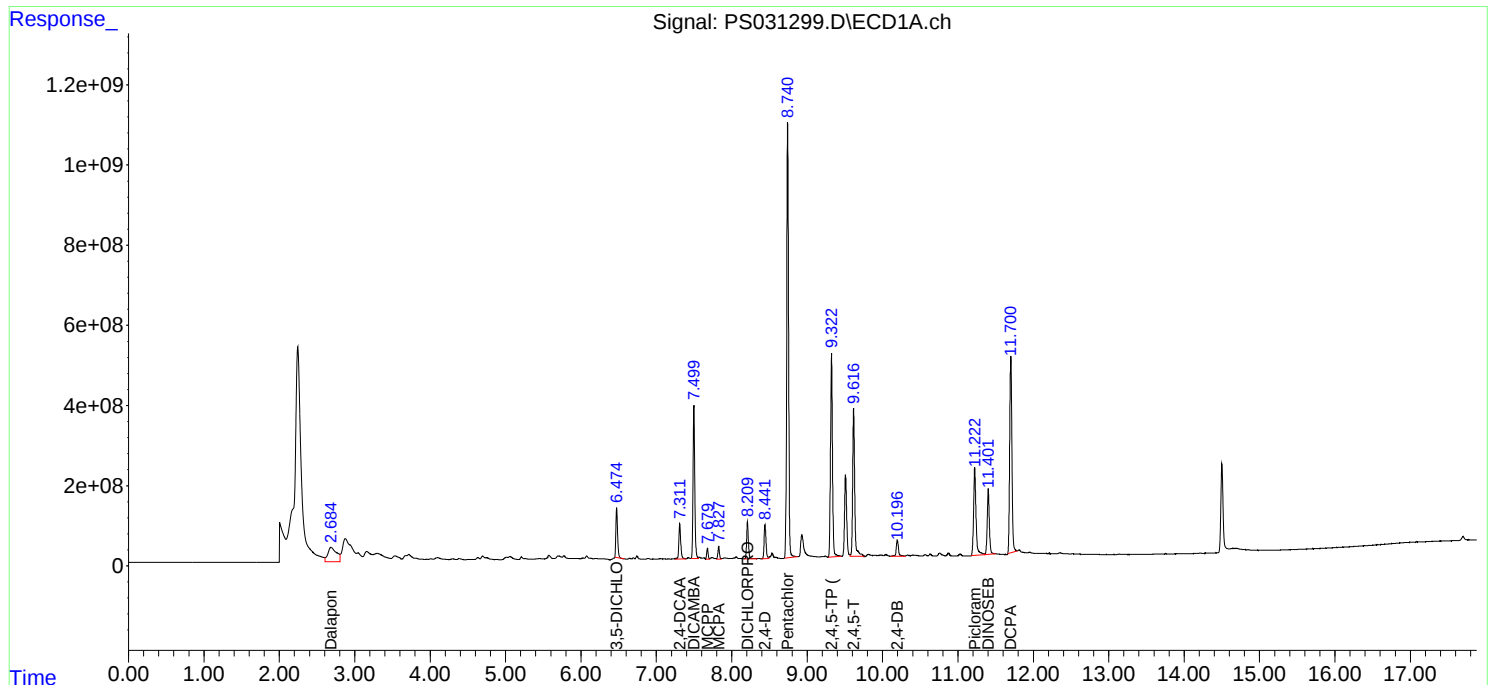
Instrument :  
ECD\_S  
ClientSampleId :  
NYPA-POUCH-SPENT-CARBONMSD

Manual Integrations  
APPROVED

Reviewed By : Abdul Mirza 07/30/2025  
Supervised By : mohammad ahmed 07/31/2025

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Jul 30 02:45:30 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS072925.M  
Quant Title : 8080.M  
QLast Update : Tue Jul 29 18:38:25 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: | PS072925 | Instrument | ECD_s |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter                    | Review By | Review On            | Supervised By | Supervised On | Reason                      |
|-------------|------------|------------------------------|-----------|----------------------|---------------|---------------|-----------------------------|
| HSTDICC200  | PS031275.D | 2,4-DB #2                    | Abdul     | 7/30/2025 8:36:01 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| HSTDICC1000 | PS031278.D | MCPP #2                      | Abdul     | 7/30/2025 8:36:04 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| HSTDICC1500 | PS031279.D | 3,5-DICHLOROBENZOI<br>C ACID | Abdul     | 7/30/2025 8:36:07 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| HSTDICC1500 | PS031279.D | MCPP #2                      | Abdul     | 7/30/2025 8:36:07 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| HSTDCCC750  | PS031282.D | MCPP #2                      | Abdul     | 7/30/2025 8:36:12 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| HSTDCCC750  | PS031293.D | DCPA #2                      | Abdul     | 7/30/2025 8:36:30 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| HSTDCCC750  | PS031293.D | MCPP #2                      | Abdul     | 7/30/2025 8:36:30 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MS  | PS031298.D | 2,4-DB                       | Abdul     | 7/30/2025 8:36:34 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MS  | PS031298.D | 3,5-DICHLOROBENZOI<br>C ACID | Abdul     | 7/30/2025 8:36:34 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MS  | PS031298.D | Dalapon #2                   | Abdul     | 7/30/2025 8:36:34 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MS  | PS031298.D | DCPA #2                      | Abdul     | 7/30/2025 8:36:34 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MS  | PS031298.D | DICHLORPROP #2               | Abdul     | 7/30/2025 8:36:34 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MSD | PS031299.D | 2,4,5-T                      | Abdul     | 7/30/2025 8:36:37 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |

## Manual Integration Report

Sequence:

PS072925

Instrument

ECD\_s

| Sample ID   | File ID    | Parameter                    | Review By | Review On            | Supervised By | Supervised On | Reason                      |
|-------------|------------|------------------------------|-----------|----------------------|---------------|---------------|-----------------------------|
| Q2681-01MSD | PS031299.D | 2,4-DB                       | Abdul     | 7/30/2025 8:36:37 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MSD | PS031299.D | 3,5-DICHLOROBENZOI<br>C ACID | Abdul     | 7/30/2025 8:36:37 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MSD | PS031299.D | Dalapon #2                   | Abdul     | 7/30/2025 8:36:37 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MSD | PS031299.D | DCPA #2                      | Abdul     | 7/30/2025 8:36:37 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| Q2681-01MSD | PS031299.D | MCPA #2                      | Abdul     | 7/30/2025 8:36:37 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| HSTDCCC750  | PS031301.D | 3,5-DICHLOROBENZOI<br>C ACID | Abdul     | 7/30/2025 8:35:38 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| HSTDCCC750  | PS031301.D | DICHLORPROP #2               | Abdul     | 7/30/2025 8:35:38 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |
| HSTDCCC750  | PS031301.D | MCPP #2                      | Abdul     | 7/30/2025 8:35:38 AM | &nbsp;        | &nbsp;        | Peak Integrated by Software |

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS072925**

|                                                                    |                                                         |                   |                                    |
|--------------------------------------------------------------------|---------------------------------------------------------|-------------------|------------------------------------|
| Review By                                                          | Abdul                                                   | Review On         | 7/30/2025 8:35:13 AM               |
| Supervise By                                                       |                                                         | Supervise On      |                                    |
| SubDirectory                                                       | PS072925                                                | HP Acquire Method | HP Processing Method pd072925 8081 |
| <b>STD. NAME</b>                                                   | <b>STD REF.#</b>                                        |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |                   |                                    |
| CCC<br>Internal Standard/PEM                                       | PP24559                                                 |                   |                                    |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24562                                                 |                   |                                    |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | HEXANE      | PS031273.D     | 29 Jul 2025 15:42 | AR\AJ    | Ok     |
| 2   | I.BLK       | PS031274.D     | 29 Jul 2025 16:06 | AR\AJ    | Ok     |
| 3   | HSTDICC200  | PS031275.D     | 29 Jul 2025 16:30 | AR\AJ    | Ok,NS  |
| 4   | HSTDICC500  | PS031276.D     | 29 Jul 2025 16:54 | AR\AJ    | Ok     |
| 5   | HSTDICC750  | PS031277.D     | 29 Jul 2025 17:18 | AR\AJ    | Ok     |
| 6   | HSTDICC1000 | PS031278.D     | 29 Jul 2025 17:42 | AR\AJ    | Ok,NS  |
| 7   | HSTDICC1500 | PS031279.D     | 29 Jul 2025 18:07 | AR\AJ    | Ok,NS  |
| 8   | HSTDICV750  | PS031280.D     | 29 Jul 2025 18:31 | AR\AJ    | Ok     |
| 9   | I.BLK       | PS031281.D     | 29 Jul 2025 18:55 | AR\AJ    | Ok     |
| 10  | HSTDCCC750  | PS031282.D     | 29 Jul 2025 19:19 | AR\AJ    | Ok,NS  |
| 11  | Q2668-01    | PS031283.D     | 29 Jul 2025 19:43 | AR\AJ    | Ok     |
| 12  | Q2668-05    | PS031284.D     | 29 Jul 2025 20:07 | AR\AJ    | Ok     |
| 13  | Q2668-09    | PS031285.D     | 29 Jul 2025 20:32 | AR\AJ    | Ok     |
| 14  | PB169024BL  | PS031286.D     | 29 Jul 2025 20:56 | AR\AJ    | Ok     |
| 15  | PB169024BS  | PS031287.D     | 29 Jul 2025 21:20 | AR\AJ    | Ok,NS  |
| 16  | Q2668-09MS  | PS031288.D     | 29 Jul 2025 21:44 | AR\AJ    | Ok,NS  |
| 17  | Q2668-09MSD | PS031289.D     | 29 Jul 2025 22:08 | AR\AJ    | Ok,NS  |
| 18  | Q2691-01    | PS031290.D     | 29 Jul 2025 22:32 | AR\AJ    | Not Ok |
| 19  | Q2691-07    | PS031291.D     | 29 Jul 2025 22:57 | AR\AJ    | ReRun  |
| 20  | I.BLK       | PS031292.D     | 29 Jul 2025 23:21 | AR\AJ    | Ok     |
| 21  | HSTDCCC750  | PS031293.D     | 29 Jul 2025 23:45 | AR\AJ    | Ok,NS  |

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QCBatch ID # PS072925**

| Review By                                                          | Abdul                                                   | Review On         | 7/30/2025 8:35:13 AM               |
|--------------------------------------------------------------------|---------------------------------------------------------|-------------------|------------------------------------|
| Supervise By                                                       |                                                         | Supervise On      |                                    |
| SubDirectory                                                       | PS072925                                                | HP Acquire Method | HP Processing Method pd072925 8081 |
| STD. NAME                                                          | STD REF.#                                               |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |                   |                                    |
| CCC<br>Internal Standard/PEM                                       | PP24559                                                 |                   |                                    |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24562                                                 |                   |                                    |

|    |             |            |                   |       |       |
|----|-------------|------------|-------------------|-------|-------|
| 22 | PB169037BL  | PS031294.D | 30 Jul 2025 00:09 | AR\AJ | Ok    |
| 23 | PB169037BS  | PS031295.D | 30 Jul 2025 00:33 | AR\AJ | Ok    |
| 24 | PB168986TB  | PS031296.D | 30 Jul 2025 00:57 | AR\AJ | Ok    |
| 25 | Q2681-01    | PS031297.D | 30 Jul 2025 01:20 | AR\AJ | Ok    |
| 26 | Q2681-01MS  | PS031298.D | 30 Jul 2025 01:44 | AR\AJ | Ok,NS |
| 27 | Q2681-01MSD | PS031299.D | 30 Jul 2025 02:09 | AR\AJ | Ok,NS |
| 28 | I.BLK       | PS031300.D | 30 Jul 2025 02:33 | AR\AJ | Ok    |
| 29 | HSTDCCC750  | PS031301.D | 30 Jul 2025 02:57 | AR\AJ | Ok,NS |

M : Manual Integration

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS072925**

|              |          |                   |                                    |
|--------------|----------|-------------------|------------------------------------|
| Review By    | Abdul    | Review On         | 7/30/2025 8:35:13 AM               |
| Supervise By |          | Supervise On      |                                    |
| SubDirectory | PS072925 | HP Acquire Method | HP Processing Method pd072925 8081 |

| STD. NAME                               | STD REF.#                                               |
|-----------------------------------------|---------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |
| CCC                                     | PP24559                                                 |
| Internal Standard/PEM                   |                                                         |
| ICV/I.BLK                               | PP24562                                                 |
| Surrogate Standard                      |                                                         |
| MS/MSD Standard                         |                                                         |
| LCS Standard                            |                                                         |

| Sr# | SampleId    | ClientID    | Data File Name | Date-Time         | Comment                       | Operator | Status |
|-----|-------------|-------------|----------------|-------------------|-------------------------------|----------|--------|
| 1   | HEXANE      | HEXANE      | PS031273.D     | 29 Jul 2025 15:42 |                               | AR\AJ    | Ok     |
| 2   | I.BLK       | I.BLK       | PS031274.D     | 29 Jul 2025 16:06 |                               | AR\AJ    | Ok     |
| 3   | HSTDICC200  | HSTDICC200  | PS031275.D     | 29 Jul 2025 16:30 |                               | AR\AJ    | Ok,NS  |
| 4   | HSTDICC500  | HSTDICC500  | PS031276.D     | 29 Jul 2025 16:54 |                               | AR\AJ    | Ok     |
| 5   | HSTDICC750  | HSTDICC750  | PS031277.D     | 29 Jul 2025 17:18 |                               | AR\AJ    | Ok     |
| 6   | HSTDICC1000 | HSTDICC1000 | PS031278.D     | 29 Jul 2025 17:42 |                               | AR\AJ    | Ok,NS  |
| 7   | HSTDICC1500 | HSTDICC1500 | PS031279.D     | 29 Jul 2025 18:07 |                               | AR\AJ    | Ok,NS  |
| 8   | HSTDICV750  | ICVPS072925 | PS031280.D     | 29 Jul 2025 18:31 |                               | AR\AJ    | Ok     |
| 9   | I.BLK       | I.BLK       | PS031281.D     | 29 Jul 2025 18:55 |                               | AR\AJ    | Ok     |
| 10  | HSTDCCC750  | HSTDCCC750  | PS031282.D     | 29 Jul 2025 19:19 |                               | AR\AJ    | Ok,NS  |
| 11  | Q2668-01    | TP-2        | PS031283.D     | 29 Jul 2025 19:43 |                               | AR\AJ    | Ok     |
| 12  | Q2668-05    | TP-3        | PS031284.D     | 29 Jul 2025 20:07 |                               | AR\AJ    | Ok     |
| 13  | Q2668-09    | TP-1        | PS031285.D     | 29 Jul 2025 20:32 |                               | AR\AJ    | Ok     |
| 14  | PB169024BL  | PB169024BL  | PS031286.D     | 29 Jul 2025 20:56 |                               | AR\AJ    | Ok     |
| 15  | PB169024BS  | PB169024BS  | PS031287.D     | 29 Jul 2025 21:20 |                               | AR\AJ    | Ok,NS  |
| 16  | Q2668-09MS  | TP-1MS      | PS031288.D     | 29 Jul 2025 21:44 | Some compound recovery fail   | AR\AJ    | Ok,NS  |
| 17  | Q2668-09MSD | TP-1MSD     | PS031289.D     | 29 Jul 2025 22:08 | Some compound recovery fail   | AR\AJ    | Ok,NS  |
| 18  | Q2691-01    | 295         | PS031290.D     | 29 Jul 2025 22:32 | surrogate fail in both column | AR\AJ    | Not Ok |

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS072925**

| Review By                                                          | Abdul                                                   | Review On         | 7/30/2025 8:35:13 AM               |
|--------------------------------------------------------------------|---------------------------------------------------------|-------------------|------------------------------------|
| Supervise By                                                       |                                                         | Supervise On      |                                    |
| SubDirectory                                                       | PS072925                                                | HP Acquire Method | HP Processing Method pd072925 8081 |
| STD. NAME                                                          | STD REF.#                                               |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |                   |                                    |
| CCC<br>Internal Standard/PEM                                       | PP24559                                                 |                   |                                    |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24562                                                 |                   |                                    |

|    |             |                  |            |                   |                           |       |       |
|----|-------------|------------------|------------|-------------------|---------------------------|-------|-------|
| 19 | Q2691-07    | 299              | PS031291.D | 29 Jul 2025 22:57 | Surrogate fail in 1st col | AR\AJ | ReRun |
| 20 | I.BLK       | I.BLK            | PS031292.D | 29 Jul 2025 23:21 |                           | AR\AJ | Ok    |
| 21 | HSTDCCC750  | HSTDCCC750       | PS031293.D | 29 Jul 2025 23:45 |                           | AR\AJ | Ok,NS |
| 22 | PB169037BL  | PB169037BL       | PS031294.D | 30 Jul 2025 00:09 |                           | AR\AJ | Ok    |
| 23 | PB169037BS  | PB169037BS       | PS031295.D | 30 Jul 2025 00:33 |                           | AR\AJ | Ok    |
| 24 | PB168986TB  | PB168986TB       | PS031296.D | 30 Jul 2025 00:57 |                           | AR\AJ | Ok    |
| 25 | Q2681-01    | NYPA-POUCH-SPENT | PS031297.D | 30 Jul 2025 01:20 |                           | AR\AJ | Ok    |
| 26 | Q2681-01MS  | NYPA-POUCH-SPENT | PS031298.D | 30 Jul 2025 01:44 | Recovery fail             | AR\AJ | Ok,NS |
| 27 | Q2681-01MSD | NYPA-POUCH-SPENT | PS031299.D | 30 Jul 2025 02:09 | Recovery fail             | AR\AJ | Ok,NS |
| 28 | I.BLK       | I.BLK            | PS031300.D | 30 Jul 2025 02:33 |                           | AR\AJ | Ok    |
| 29 | HSTDCCC750  | HSTDCCC750       | PS031301.D | 30 Jul 2025 02:57 |                           | AR\AJ | Ok,NS |

M : Manual Integration

SOP ID : M1311-TCLP-16  
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 : 07/24/2025 Time : 15:00  
End Prep Date : 07/25/2025 Time : 08:20  
Combination Ratio : 20  
ZHE Cleaning Batch : N/A 18  
Initial Room Temperature: 23 °C  
Final Room Temperature: 22 °C  
TCLP Technician Signature : 18  
Supervisor By : 12

| Standard 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               | WP112804                |
| 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:**

TUMBLER T-1 / T-2 checked,30 rpm. Particle size reduction is not required. Matrix spikes are added after filtration and before preservation. q2691-08 is used for MS-MSD.

| Date / Time    | Prepped Sample Relinquished By/Location | Received By/Location   |
|----------------|-----------------------------------------|------------------------|
| 07/25/25 11:00 | JP 1st Room                             | SLS met dia RJ/EH      |
|                | Preparation Group                       | Analysis Group met dia |

| 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 |
|------------|-------------------------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|----------|
| PB168986TB | LEB986                  | 19             | N/A           | 2000                            | N/A          | N/A            | N/A             | 4.93              | 1.5                     | T-2      |
| Q2635-04   | RT2286                  | 01             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 6.0               | 1.0                     | T-1      |
| Q2681-01   | NYPA-POUCH-SPENT-CARBON | 02             | 100.01        | 2000                            | N/A          | N/A            | N/A             | 4.0               | 1.5                     | T-1      |
| Q2685-01   | COMP-1                  | 03             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-1      |
| Q2685-02   | COMP-2                  | 04             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.0                     | T-1      |
| Q2685-03   | COMP-3                  | 05             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.5                     | T-1      |
| Q2685-04   | COMP-4                  | 06             | 100.04        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-1      |
| Q2688-01   | COMP-1                  | 07             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.5                     | T-1      |
| Q2688-02   | COMP-2                  | 08             | 100.01        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-1      |
| Q2688-03   | COMP-3                  | 09             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.5                     | T-1      |
| Q2688-04   | COMP-4                  | 10             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.0                     | T-1      |
| Q2688-05   | COMP-5                  | 11             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.5                     | T-2      |
| Q2688-06   | COMP-6                  | 12             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-2      |
| Q2688-07   | COMP-7                  | 13             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.5                     | T-2      |
| Q2688-08   | COMP-8                  | 14             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-2      |
| Q2688-10   | SOM-103                 | 15             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.5                     | T-2      |
| Q2688-11   | SOM-77                  | 16             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.0                     | T-2      |
| Q2691-02   | 295                     | 17             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 4.5               | 1.5                     | T-2      |
| Q2691-08   | 299                     | 18             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 5.5               | 1.0                     | T-2      |

| SampleID   | ClientID                | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|------------|-------------------------|-------------------|-------------------|---------------|------------------------------|----------|--------------|
| PB168986TB | LEB986                  | N/A               | N/A               | N/A           | N/A                          | N/A      | N/A          |
| Q2635-04   | RT2286                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2681-01   | NYPA-POUCH-SPENT-CARBON | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2685-01   | COMP-1                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2685-02   | COMP-2                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2685-03   | COMP-3                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2685-04   | COMP-4                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-01   | COMP-1                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-02   | COMP-2                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-03   | COMP-3                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-04   | COMP-4                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-05   | COMP-5                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-06   | COMP-6                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-07   | COMP-7                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-08   | COMP-8                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-10   | SOM-103                 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2688-11   | SOM-77                  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2691-02   | 295                     | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q2691-08   | 299                     | 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 |
|------------|-------------------------|-------------------|----------------------|---------------------|----------------------|-------------------------|---------------------|
| PB168986TB | LEB986                  | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.93                |
| Q2635-04   | RT2286                  | 5.02              | 96.5                 | 8.0                 | 3.0                  | #1                      | 4.93                |
| Q2681-01   | NYPA-POUCH-SPENT-CARBON | 5.03              | 96.5                 | 5.6                 | 1.5                  | #1                      | 4.93                |
| Q2685-01   | COMP-1                  | 5.01              | 96.5                 | 5.6                 | 2.0                  | #1                      | 4.93                |
| Q2685-02   | COMP-2                  | 5.02              | 96.5                 | 5.5                 | 1.5                  | #1                      | 4.93                |
| Q2685-03   | COMP-3                  | 5.04              | 96.5                 | 5.8                 | 2.0                  | #1                      | 4.93                |
| Q2685-04   | COMP-4                  | 5.02              | 96.5                 | 5.5                 | 2.0                  | #1                      | 4.93                |
| Q2688-01   | COMP-1                  | 5.03              | 96.5                 | 5.6                 | 1.5                  | #1                      | 4.93                |
| Q2688-02   | COMP-2                  | 5.01              | 96.5                 | 5.5                 | 2.0                  | #1                      | 4.93                |
| Q2688-03   | COMP-3                  | 5.03              | 96.5                 | 5.6                 | 1.5                  | #1                      | 4.93                |
| Q2688-04   | COMP-4                  | 5.03              | 96.5                 | 5.5                 | 2.0                  | #1                      | 4.93                |
| Q2688-05   | COMP-5                  | 5.01              | 96.5                 | 5.5                 | 2.0                  | #1                      | 4.93                |
| Q2688-06   | COMP-6                  | 5.02              | 96.5                 | 5.6                 | 1.5                  | #1                      | 4.93                |
| Q2688-07   | COMP-7                  | 5.03              | 96.5                 | 5.5                 | 1.5                  | #1                      | 4.93                |
| Q2688-08   | COMP-8                  | 5.02              | 96.5                 | 5.6                 | 2.0                  | #1                      | 4.93                |
| Q2688-10   | SOM-103                 | 5.02              | 96.5                 | 5.5                 | 1.5                  | #1                      | 4.93                |
| Q2688-11   | SOM-77                  | 5.02              | 96.5                 | 5.5                 | 1.5                  | #1                      | 4.93                |
| Q2691-02   | 295                     | 5.02              | 96.5                 | 6.4                 | 2.0                  | #1                      | 4.93                |
| Q2691-08   | 299                     | 5.04              | 96.5                 | 7.2                 | 2.5                  | #1                      | 4.93                |

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : tcip q2688

WorkList ID : 190915

Department : TCLP Extraction

Date : 07-24-2025 11:29:37

| Sample   | Customer Sample        | Matrix | Test            | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|----------|------------------------|--------|-----------------|--------------|----------|-----------------------------|--------------|--------|
| Q2635-04 | RT2286                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D31                         | 07/17/2025   | 1311   |
| Q2681-01 | NYPA-POUCH-SPENT-CARBO | Solid  | TCLP Extraction | Cool 4 deg C | CORE02   | D21                         | 07/23/2025   | 1311   |
| Q2685-01 | COMP-1                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2685-02 | COMP-2                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2685-03 | COMP-3                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2685-04 | COMP-4                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-01 | COMP-1                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-02 | COMP-2                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-03 | COMP-3                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-04 | COMP-4                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-05 | COMP-5                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-06 | COMP-6                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-07 | COMP-7                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-08 | COMP-8                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-10 | SOM-103                | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2688-11 | SOM-77                 | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2691-02 | 295                    | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/23/2025   | 1311   |
| Q2691-08 | 299                    | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | D21                         | 07/24/2025   | 1311   |

Date/Time 07/24/25 14:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 07/24/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

SOP ID: M8151A-Herbicide-23

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: 4,7

Extraction Start Date: 07/29/2025

Extraction Start Time: 08:47

Extraction End Date: 07/29/2025

Extraction End Time: 15:15

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           | PP24654             |
| Surrogate     | 1.0ML    | 5000 PPB            | PP24737             |
| 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            | E3952      |
| Acidified Na2SO4 | N/A            | EP2621     |
| 12N H2SO4        | N/A            | EP2605     |
| NAOH 6N          | N/A            | EP2606     |
| ISO OCTANE       | N/A            | E3554      |
| METHANOL         | N/A            | V14622     |
| Diazomethane     | N/A            | EP2618     |
| Hexane           | N/A            | E3956      |
| NACL             | N/A            | M4459      |
| N/A              | N/A            | N/A        |
| N/A              | N/A            | N/A        |
| N/A              | N/A            | N/A        |
| N/A              | N/A            | N/A        |
| N/A              | N/A            | N/A        |

## Extraction Conformance/Non-Conformance Comments:

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

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

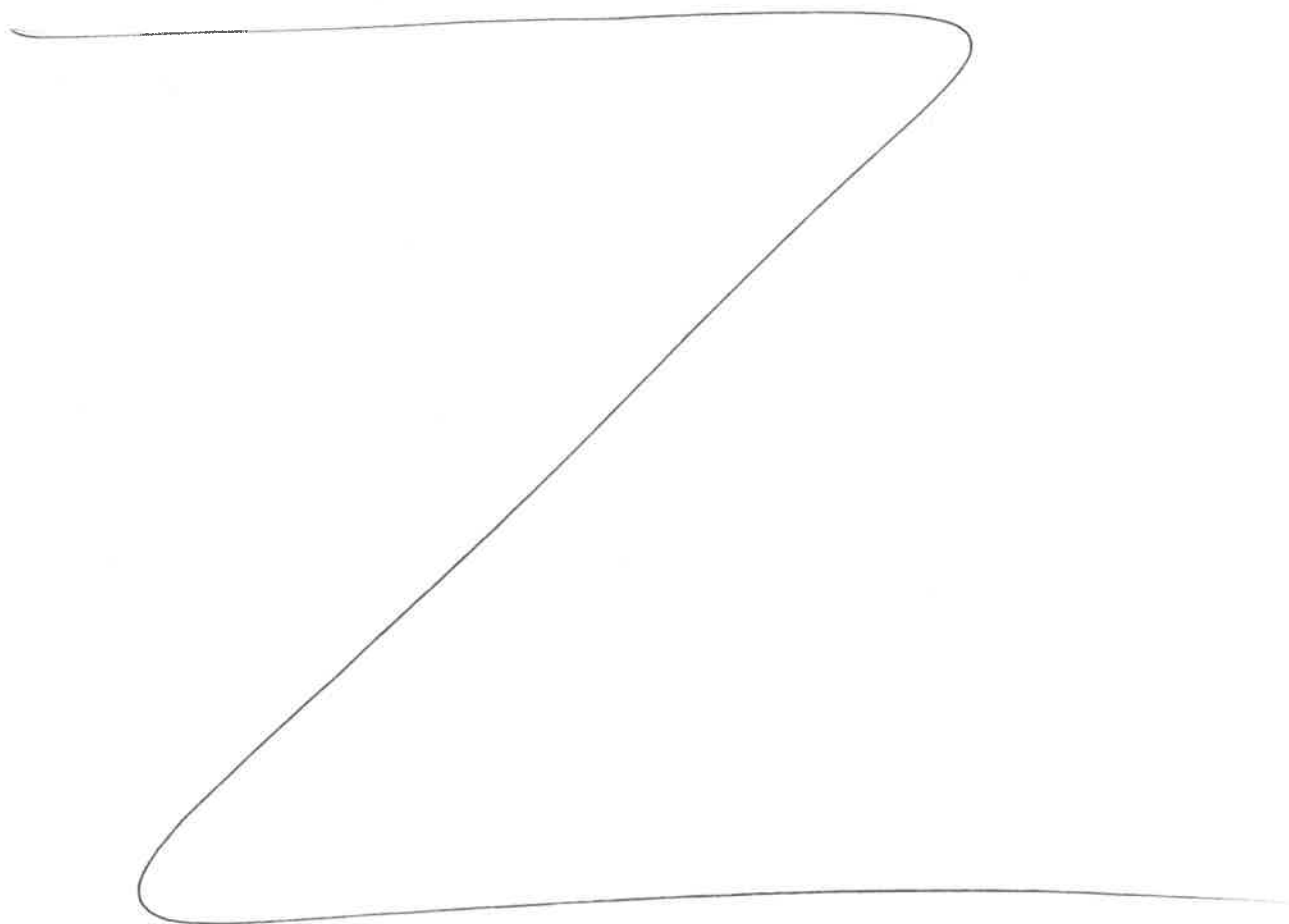
Envap Temperature: 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 7/29/25     | RS (Ext Lab)                            | Y.P. Pest HPLC       |
| 15:20       | Preparation Group                       | Analysis Group       |

Analytical Method: M8151A-Herbicide-23

Concentration Date: 07/29/2025

| Sample ID       | Client Sample ID               | Test           | g / (mL) | PH | Surr/Spike By: |            | Final Vol. (mL) | JarID | Comments | Prep Pos |
|-----------------|--------------------------------|----------------|----------|----|----------------|------------|-----------------|-------|----------|----------|
|                 |                                |                |          |    | AddedBy        | VerifiedBy |                 |       |          |          |
| PB168986TB      | PB168986TB                     | TCLP Herbicide | 100      | 6  | RUPESH         | Evelyn     | 10              |       |          | SEP-1    |
| PB169037BL      | HBLK037                        | TCLP Herbicide | 1000     | 6  | RUPESH         | Evelyn     | 10              |       |          | 2        |
| PB169037BS      | HLCS037                        | TCLP Herbicide | 1000     | 6  | RUPESH         | Evelyn     | 10              |       |          | 3        |
| Q2681-01        | NYPA-POUCH-SPENT-CAR<br>BON    | TCLP Herbicide | 100      | 6  | RUPESH         | Evelyn     | 10              | A     |          | 4        |
| Q2681-01MS      | NYPA-POUCH-SPENT-CAR<br>BONMS  | TCLP Herbicide | 100      | 6  | RUPESH         | Evelyn     | 10              | A     |          | 5        |
| Q2681-01MS<br>D | NYPA-POUCH-SPENT-CAR<br>BONMSD | TCLP Herbicide | 100      | 6  | RUPESH         | Evelyn     | 10              | A     |          | 6        |



RS  
7/29

| 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 |
|------------|-------------------------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|----------|
| PB168986TB | LEB986                  | 19             | N/A           | 2000                            | N/A          | N/A            | N/A             | 4.93              | 1.5                     | T-2      |
| Q2635-04   | RT2286                  | 01             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 6.0               | 1.0                     | T-1      |
| Q2681-01   | NYPA-POUCH-SPENT-CARBON | 02             | 100.01        | 2000                            | N/A          | N/A            | N/A             | 4.0               | 1.5                     | T-1      |
| Q2685-01   | COMP-1                  | 03             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-1      |
| Q2685-02   | COMP-2                  | 04             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.0                     | T-1      |
| Q2685-03   | COMP-3                  | 05             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.5                     | T-1      |
| Q2685-04   | COMP-4                  | 06             | 100.04        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-1      |
| Q2688-01   | COMP-1                  | 07             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.5                     | T-1      |
| Q2688-02   | COMP-2                  | 08             | 100.01        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-1      |
| Q2688-03   | COMP-3                  | 09             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.5                     | T-1      |
| Q2688-04   | COMP-4                  | 10             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.0                     | T-1      |
| Q2688-05   | COMP-5                  | 11             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.5                     | T-2      |
| Q2688-06   | COMP-6                  | 12             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-2      |
| Q2688-07   | COMP-7                  | 13             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.5                     | T-2      |
| Q2688-08   | COMP-8                  | 14             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.0                     | T-2      |
| Q2688-10   | SOM-103                 | 15             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.5                     | T-2      |
| Q2688-11   | SOM-77                  | 16             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.0                     | T-2      |
| Q2691-02   | 295                     | 17             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 4.5               | 1.5                     | T-2      |
| Q2691-08   | 299                     | 18             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 5.5               | 1.0                     | T-2      |

07/25/25  
11:00

## Prep Standard - Chemical Standard Summary

**Order ID :** Q2681

**Test :** TCLP Herbicide

**Prepbatch ID :** PB169037,

**Sequence ID/Qc Batch ID:** PS072925,

**Standard ID :**

EP2605,EP2606,EP2621,PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560,PP24561,PP24562,PP24654,PP24737,

**Chemical ID :**

E3551,E3554,E3657,E3881,E3933,E3940,E3952,E3956,M6041,M6157,P 11183,P12620,P12630,P12689,P12710,P13543,P13544,P13545,P13546,P13971,P13977,P14064,P14065,P14066,P8829,W3112,

## Extractions 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> |
|------------------|--------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3883             | 12N H2SO4 solution | <a href="#">EP2605</a> | 04/21/2025       | 10/21/2025             | RUPESHKUMAR SHAH   | None           | None             | Riteshkumar Patel    |
| 04/21/2025       |                    |                        |                  |                        |                    |                |                  |                      |

**FROM** 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    | <a href="#">EP2606</a> | 04/21/2025       | 10/21/2025             | RUPESHKUMAR SHAH   | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel    |
| 04/21/2025       |             |                        |                  |                        |                    |                                     |                  |                      |

**FROM** 1000.00000ml of W3112 + 240.00000gram of E3657 = Final Quantity: 1000.000 ml

[illegible]

| <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                                                                                                                                       | <a href="#">PP24553</a> | 05/12/2025       | 11/05/2025             | Abdul Mirza        | None           | None             | Yogesh Patel<br>05/22/2025 |
| <u>FROM</u>      | 0.20000ml of P8829 + 1.00000ml of P11183 + 1.00000ml of P12620 + 1.00000ml of P12630 + 1.00000ml of P12689 + 95.80000ml of E3933 = Final Quantity: 100.000 ml |                         |                  |                        |                    |                |                  |                            |

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                        | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1851             | 2/200 PPM Herb Mega Mix 2nd Source | <a href="#">PP24554</a> | 05/12/2025       | 08/12/2025             | Abdul Mirza        | None           | None             | Yogesh Patel         |
|                  |                                    |                         |                  |                        |                    |                |                  | 05/22/2025           |

**FROM** 0.50000ml of P13971 + 1.00000ml of P12710 + 48.50000ml of E3933 = Final Quantity: 50.000 ml

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1456             | 200 PPB Herb MIX STD | <a href="#">PP24556</a> | 05/12/2025       | 11/05/2025             | Abdul Mirza        | None           | None             | Yogesh Patel         |
|                  |                      |                         |                  |                        |                    |                |                  | 05/22/2025           |

**FROM** 0.90000ml of E3933 + 0.10000ml of PP24553 = 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 | <a href="#">PP24557</a> | 05/12/2025       | 11/05/2025             | Abdul Mirza        | None           | None             | Yogesh Patel         |
|                  |                      |                         |                  |                        |                    |                |                  | 05/22/2025           |

**FROM** 0.75000ml of E3933 + 0.25000ml of PP24553 = 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> |
|------------------|-----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1453             | 1000 PPB Herb MIX STD | <a href="#">PP24558</a> | 05/12/2025       | 11/05/2025             | Abdul Mirza        | None           | None             | Yogesh Patel         |
|                  |                       |                         |                  |                        |                    |                |                  | 05/22/2025           |

**FROM** 0.50000ml of E3933 + 0.50000ml of PP24553 = 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> |
|------------------|----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1454             | 750 PPB Herb MIX STD | <a href="#">PP24559</a> | 05/12/2025       | 11/05/2025             | Abdul Mirza        | None           | None             | Yogesh Patel         |
|                  |                      |                         |                  |                        |                    |                |                  | 05/22/2025           |

**FROM** 0.25000ml of E3933 + 0.75000ml of PP24558 = 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> |
|------------------|-----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1452             | 1500 PPB HERB MIX STD | <a href="#">PP24560</a> | 05/12/2025       | 11/05/2025             | Abdul Mirza        | None           | None             | Yogesh Patel         |
|                  |                       |                         |                  |                        |                    |                |                  | 05/22/2025           |

**FROM** 0.25000ml of E3933 + 0.75000ml of PP24553 = 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 | <a href="#">PP24561</a> | 05/12/2025       | 08/12/2025             | Abdul Mirza        | None           | None             | Yogesh Patel         |
|                  |                           |                         |                  |                        |                    |                |                  | 05/22/2025           |

**FROM** 0.50000ml of E3933 + 0.50000ml of PP24554 = 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 | <a href="#">PP24562</a> | 05/12/2025       | 08/12/2025             | Abdul Mirza        | None           | None             | Yogesh Patel         |
|                  |                      |                         |                  |                        |                    |                |                  | 05/22/2025           |

**FROM** 0.25000ml of E3933 + 0.75000ml of PP24561 = Final Quantity: 1.000 ml



| <u>Recipe ID</u>                                                                                                                                            | <u>NAME</u>                                 | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 1848                                                                                                                                                        | 5000/500000 PPB Herbicide Spike (Free Acid) | <a href="#">PP24654</a> | 06/18/2025       | 12/11/2025             | Abdul Mirza        | None           | None             | Yogesh Patel<br>07/23/2025 |
| <b><u>FROM</u></b> 1.25000ml of P13543 + 1.25000ml of P13544 + 1.25000ml of P13545 + 1.25000ml of P13546 + 95.00000ml of E3940 = 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>       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 60                                                                                                                                                           | 5000 PPB Herbicide Surg Spike (Free Acid) | <a href="#">PP24737</a> | 07/18/2025       | 01/18/2026             | Abdul Mirza        | None           | None             | Yogesh Patel<br>07/21/2025 |
| <b><u>FROM</u></b> 1.25000ml of P13977 + 1.25000ml of P14064 + 1.25000ml of P14065 + 1.25000ml of P14066 + 195.00000ml of E3956 = Final Quantity: 200.000 ml |                                           |                         |                  |                        |                    |                |                  |                            |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                    | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 12/04/2025      | 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 # |
|-----------------------------|--------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC04977-3 / Ether, Anhydrous, Glass Distilled, HRGC/HPLC, 4L | 242789 | 06/30/2025      | 02/14/2025 / Rajesh     | 01/06/2025 / Rajesh         | E3881          |

| 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) | 25C0362005 | 11/05/2025      | 05/05/2025 / RUPESH     | 04/23/2025 / RUPESH         | E3933          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 12/11/2025      | 06/11/2025 / Rajesh     | 06/04/2025 / Rajesh         | E3940          |

## 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) | 250419 | 05/31/2026      | 07/09/2025 / RUPESH     | 07/09/2025 / RUPESH         | E3952          |

| 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) | 25C0362005 | 04/30/2026      | 07/16/2025 / RUPESH     | 07/16/2025 / RUPESH         | E3956          |

| 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 # |
|------------------|---------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 24i1262013 | 11/07/2025      | 05/07/2025 / RUPESH     | 02/18/2025 / Mohan          | M6157          |

| 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 | 11/12/2025      | 05/12/2025 / Abdul      | 11/01/2021 / Abdul          | P11183         |

| 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 | 11/12/2025      | 05/12/2025 / Abdul      | 07/03/2023 / Abdul          | P12620         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | 11/12/2025      | 05/12/2025 / Abdul      | 07/03/2023 / Abdul          | P12630         |

| 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 | 11/12/2025      | 05/12/2025 / Abdul      | 07/24/2023 / Abdul          | P12689         |

| 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 | 08/12/2025      | 05/12/2025 / Abdul      | 08/09/2023 / Abdul          | P12710         |

| 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 | 08/12/2025      | 05/12/2025 / Abdul      | 08/09/2023 / Abdul          | P12710         |

| 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 | 12/18/2025      | 06/18/2025 / Abdul      | 09/24/2024 / Abdul          | P13543         |

| 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 | 12/18/2025      | 06/18/2025 / Abdul      | 09/24/2024 / Abdul          | P13543         |

## 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 | 12/18/2025      | 06/18/2025 / Abdul      | 09/24/2024 / Abdul          | P13544         |

| 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 | 12/18/2025      | 06/18/2025 / Abdul      | 09/24/2024 / Abdul          | P13544         |

| 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 | 12/18/2025      | 06/18/2025 / Abdul      | 09/24/2024 / Abdul          | P13545         |

| 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 | 12/18/2025      | 06/18/2025 / Abdul      | 09/24/2024 / Abdul          | P13545         |

| 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 | 12/18/2025      | 06/18/2025 / Abdul      | 09/24/2024 / Abdul          | P13546         |

| 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 | 12/18/2025      | 06/18/2025 / Abdul      | 09/24/2024 / Abdul          | P13546         |

## 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 | A0221255 | 11/12/2025      | 05/12/2025 / Abdul      | 04/02/2025 / Abdul          | P13971         |

| 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 | A0221255 | 01/18/2026      | 07/18/2025 / Abdul      | 04/02/2025 / Abdul          | P13977         |

| 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 | A0221255 | 01/18/2026      | 07/18/2025 / Abdul      | 06/23/2025 / anahy          | P14064         |

| 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 | A0221255 | 01/18/2026      | 07/18/2025 / Abdul      | 06/23/2025 / anahy          | P14065         |

| 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 | A0221255 | 01/18/2026      | 07/18/2025 / Abdul      | 06/23/2025 / anahy          | P14066         |

| Supplier | ItemCode / ItemName                      | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32254 / Dalapon Methyl Ester, 1000 ug/ml | A0148063 | 11/12/2025      | 05/12/2025 / Abdul      | 08/16/2019 / Stephen        | P8829          |

### **CHEMICAL RECEIPT LOG BOOK**

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



**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 <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER : | 6399                              | RELEASE DATE: | ABR/21/2023                     |
| LOT NUMBER :           | 313201                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | 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 <sub>4</sub> )             | 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 <sub>2</sub> 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.

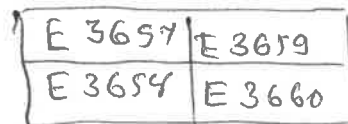
This document has been electronically produced and is valid without a signature.

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.



## 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.

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

 **avantors**<sup>TM</sup>



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

## Certificate of Analysis

| Test                                                                           | Specification  | Result      |
|--------------------------------------------------------------------------------|----------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)           | $\leq 5$       | 1           |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)            | $\leq 10$      | 6           |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | $\leq 5$       | 5           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)    | $\geq 99.5 \%$ | 100.0 %     |
| Assay (as n-Hexane) (by GC, corrected for water)                               | $\geq 95 \%$   | 100 %       |
| Color (APHA)                                                                   | $\leq 10$      | 10          |
| Residue after Evaporation                                                      | $\leq 1.0$ ppm | 0.1 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                          | 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: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3933



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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

## Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 6/11/25

E3940

*J. Croak*

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

## CERTIFICATE OF ANALYSIS

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

|                           |                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Catalogue Number          | E198                                                                                                                                 |
| Lot Number                | 250419                                                                                                                               |
| Description               | ETHYL ETHER, HPLC GRADE                                                                                                              |
| CAS Number                | 60-29-7                                                                                                                              |
| Quality Test/Release Date | 02/Jun/2025                                                                                                                          |
| Suggested retest date     | 31/May/2026                                                                                                                          |
| Country of Origin         | Mexico                                                                                                                               |
| Declaration of Origin     | Organic - synthetic                                                                                                                  |
| BSE/TSE                   | This product was derived from synthetic raw materials and the manufacturing process excluded contamination with any animal products. |

| Result Name                  | Units               | Specifications                    | Test Value                                       |
|------------------------------|---------------------|-----------------------------------|--------------------------------------------------|
| APPEARANCE                   |                     | REPORT                            | Clear, colorless liquid free of suspended matter |
| ASSAY                        | %                   | >= 99                             | 99.95                                            |
| CARBONYL COMPOUNDS           | %                   | <= 0.001                          | <0.001                                           |
| COLOR                        | APHA                | <= 10                             | 5                                                |
| DENSITY AT 25 DEGREES C      | GM/ML               | Inclusive Between 0.708 - 0.710   | 0.710                                            |
| EVAPORATION RESIDUE          | ppm                 | <= 5                              | 0.1                                              |
| IDENTIFICATION               | PASS/FAIL           | = PASS TEST                       | PASS TEST                                        |
| OPTICAL ABS AT 218 NM        | ABSORBANCE<br>UNITS | <= 1.00                           | 0.15                                             |
| OPTICAL ABS AT 254 NM        | ABSORBANCE<br>UNITS | <= 0.07                           | 0.03                                             |
| OPTICAL ABS AT 280 NM        | ABSORBANCE<br>UNITS | <= 0.02                           | 0.003                                            |
| OPTICAL ABS AT 350 NM        | ABSORBANCE<br>UNITS | <= 0.01                           | <0.001                                           |
| PEROXIDE                     | ppm                 | <= 5                              | <1                                               |
| PRESERVATIVE - ETHANOL       | %                   | Inclusive Between 1.5 - 2.5       | 1.6                                              |
| REFRACTIVE INDEX @ 25 DEG C  |                     | Inclusive Between 1.3490 - 1.3520 | 1.3498                                           |
| SUBSTANCES DARKENED BY H2SO4 | PASS/FAIL           | = PASS TEST                       | PASS TEST                                        |
| TITRATABLE ACID              | MEQ/G               | <= 0.0002                         | <0.00003                                         |
| WATER (H2O)                  | %                   | <= 0.01                           | 0.008                                            |



Matthew Micek  
QC Supervisor

Received on 7/9/25  
E3952

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

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



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

## Certificate of Analysis

| Test                                                                           | Specification  | Result      |
|--------------------------------------------------------------------------------|----------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)           | $\leq 5$       | 1           |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)            | $\leq 10$      | 6           |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | $\leq 5$       | 5           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)    | $\geq 99.5 \%$ | 100.0 %     |
| Assay (as n-Hexane) (by GC, corrected for water)                               | $\geq 95 \%$   | 100 %       |
| Color (APHA)                                                                   | $\leq 10$      | 10          |
| Residue after Evaporation                                                      | $\leq 1.0$ ppm | 0.1 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                          | 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: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on 7/16/25

E3956

Jamie Croak  
Director Quality Operations, Bioscience Production

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 <sub>2</sub> SO <sub>4</sub> )                | 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 <sub>2</sub> ) | ≤ 2 ppm       | < 2 ppm     |
| Ammonium (NH <sub>4</sub> )                                  | ≤ 1 ppm       | 1 ppm       |
| Chloride (Cl)                                                | ≤ 0.1 ppm     | < 0.1 ppm   |
| Nitrate (NO <sub>3</sub> )                                   | ≤ 0.2 ppm     | < 0.1 ppm   |
| Phosphate (PO <sub>4</sub> )                                 | ≤ 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™**

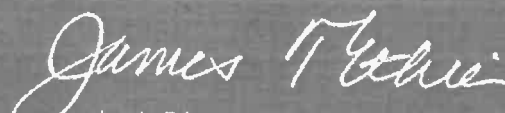


Material No.: 9673-33  
Batch No.: 23D2462010

| Test                              | Specification    | Result    |
|-----------------------------------|------------------|-----------|
| Trace Impurities – Sodium (Na)    | $\leq 500.0$ ppb | 5.4 ppb   |
| Trace Impurities – Strontium (Sr) | $\leq 5.0$ ppb   | < 0.2 ppb |
| Trace Impurities – Tin (Sn)       | $\leq 5.0$ ppb   | < 0.8 ppb |
| Trace Impurities – Zinc (Zn)      | $\leq 5.0$ 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

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

avantor™



MG157  
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

## Certificate of Analysis

| Test                                                        | Specification | Result      |
|-------------------------------------------------------------|---------------|-------------|
| ACS – Assay (H <sub>2</sub> SO <sub>4</sub> )               | 95.0 – 98.0 % | 96.2 %      |
| Appearance                                                  | Passes Test   | Passes Test |
| ACS – Color (APHA)                                          | <= 10         | 5           |
| ACS – Residue after Ignition                                | <= 3 ppm      | <1 ppm      |
| ACS – Substances Reducing Permanganate(as SO <sub>2</sub> ) | <= 2 ppm      | <2 ppm      |
| Ammonium (NH <sub>4</sub> )                                 | <= 1 ppm      | <1 ppm      |
| Chloride (Cl)                                               | <= 0.1 ppm    | <0.1 ppm    |
| Nitrate (NO <sub>3</sub> )                                  | <= 0.2 ppm    | 0.1 ppm     |
| Phosphate (PO <sub>4</sub> )                                | <= 0.5 ppm    | <0.1 ppm    |
| Trace Impurities – Aluminum (Al)                            | <= 30.0 ppb   | <5.0 ppb    |
| Arsenic & Antimony (as As)                                  | <= 4.0 ppb    | <2.0 ppb    |
| Trace Impurities – Boron (B)                                | <= 10.0 ppb   | <5.0 ppb    |
| Trace Impurities – Cadmium (Cd)                             | <= 2.0 ppb    | <1.0 ppb    |
| Trace Impurities – Chromium (Cr)                            | <= 6.0 ppb    | <1.0 ppb    |
| Trace Impurities – Cobalt (Co)                              | <= 0.5 ppb    | <0.3 ppb    |
| Trace Impurities – Copper (Cu)                              | <= 1.0 ppb    | <1.0 ppb    |
| Trace Impurities – Gold (Au)                                | <= 10.0 ppb   | <5.0 ppb    |
| Heavy Metals (as Pb)                                        | <= 500.0 ppb  | <100.0 ppb  |
| Trace Impurities – Iron (Fe)                                | <= 50.0 ppb   | <1.0 ppb    |
| Trace Impurities – Lead (Pb)                                | <= 0.5 ppb    | <0.5 ppb    |
| Trace Impurities – Magnesium (Mg)                           | <= 7.0 ppb    | <1.0 ppb    |
| Trace Impurities – Manganese (Mn)                           | <= 1.0 ppb    | <1.0 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  | <10.0 ppb   |
| Trace Impurities – Selenium (Se)                            | <= 50.0 ppb   | 7.2 ppb     |
| Trace Impurities – Silicon (Si)                             | <= 100.0 ppb  | 12.8 ppb    |
| Trace Impurities – Silver (Ag)                              | <= 1.0 ppb    | <1.0 ppb    |

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

Avantor Performance Materials LLC

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 2411262013

| Test                              | Specification    | Result      |
|-----------------------------------|------------------|-------------|
| Trace Impurities – Sodium (Na)    | $\leq 500.0$ ppb | $< 5.0$ ppb |
| Trace Impurities – Strontium (Sr) | $\leq 5.0$ ppb   | $< 1.0$ ppb |
| Trace Impurities – Tin (Sn)       | $\leq 5.0$ ppb   | 1.1 ppb     |
| Trace Impurities – Zinc (Zn)      | $\leq 5.0$ ppb   | $< 1.0$ ppb |

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



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

**Column:**

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

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

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

**Inj. Temp:**

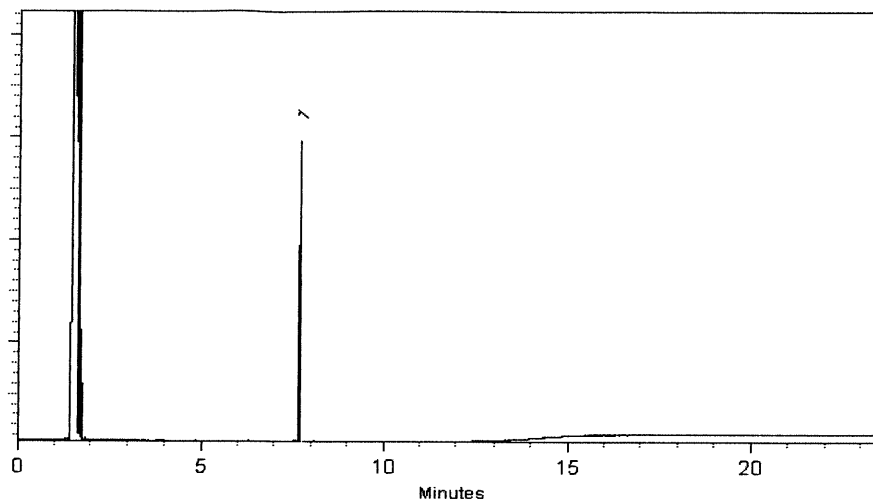
250°C

**Det. Temp:**

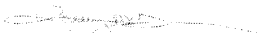
330°C

**Det. Type:**

FID

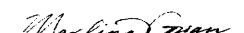


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662

  
Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

1911177  
70  
P 111 86  
AR  
11/02/21



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

**Catalog No. :** 32050 **Lot No.:** A0172864  
**Description :** 2,4-Dichlorophenylacetic Acid Methyl Ester Standard  
515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester  
200µg/mL, Hexane, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** February 29, 2028 **Storage:** 10°C or colder  
**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

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

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

P11177  
↓  
P11186  
—  
AR  
01/02/21



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# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

P12616 / (5)  
↓  
P12620  
Date = 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<br>CAS # 2905-67-1 (Lot 3903900)<br>Purity 99%  | 200.0 µg/mL                 | +/- 1.4182 µg/mL Gravimetric<br>+/- 6.7507 µg/mL Unstressed<br>+/- 6.7507 µg/mL Stressed |
| 2             | 4-Nitroanisole<br>CAS # 100-17-4 (Lot 24765/7)<br>Purity 99%                          | 200.0 µg/mL                 | +/- 1.4182 µg/mL Gravimetric<br>+/- 6.7507 µg/mL Unstressed<br>+/- 6.7507 µg/mL Stressed |
| 3             | Pentachloroanisole<br>CAS # 1825-21-4 (Lot 7921100)<br>Purity 99%                     | 200.0 µg/mL                 | +/- 1.4182 µg/mL Gravimetric<br>+/- 6.7507 µg/mL Unstressed<br>+/- 6.7507 µg/mL Stressed |
| 4             | Chloramben methyl ester<br>CAS # 7286-84-2 (Lot 6487100)<br>Purity 98%                | 199.9 µg/mL                 | +/- 1.4176 µg/mL Gravimetric<br>+/- 6.7480 µg/mL Unstressed<br>+/- 6.7480 µg/mL Stressed |
| 5             | Bentazon methyl ester<br>CAS # 61592-45-8 (Lot 817100)<br>Purity 99%                  | 200.0 µg/mL                 | +/- 1.4182 µg/mL Gravimetric<br>+/- 6.7507 µg/mL Unstressed<br>+/- 6.7507 µg/mL Stressed |
| 6             | Picloram methyl ester<br>CAS # 14143-55-6 (Lot 386-21B)<br>Purity 98%                 | 201.9 µg/mL                 | +/- 1.4315 µg/mL Gravimetric<br>+/- 6.8141 µg/mL Unstressed<br>+/- 6.8141 µg/mL Stressed |
| 7             | DCPA methyl ester (Chlorthal-dimethyl)<br>CAS # 1861-32-1 (Lot 8008700)<br>Purity 99% | 200.0 µg/mL                 | +/- 1.4182 µg/mL Gravimetric<br>+/- 6.7507 µg/mL Unstressed<br>+/- 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:**

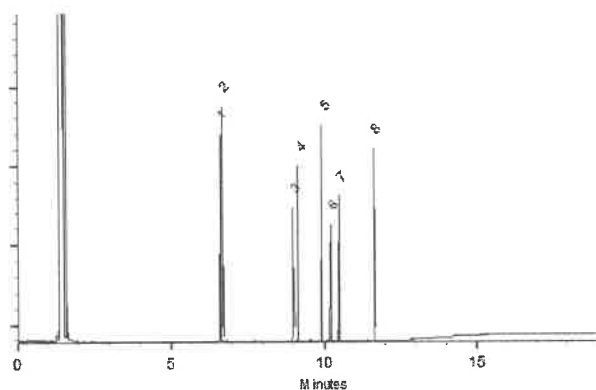
250°C

**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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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

### Certificate of Analysis chromatographic plus



#### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

**Catalog No. :** 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:**

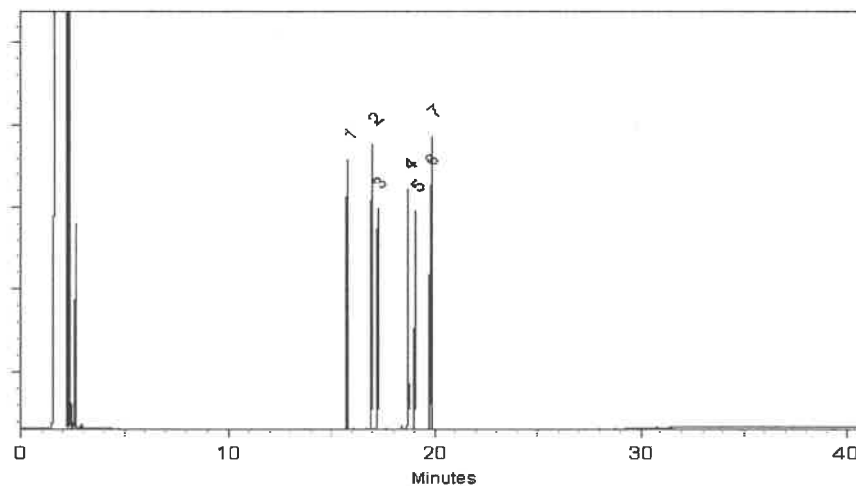
FID

**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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Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

### Certificate of Analysis chromatographic plus



#### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

**Catalog No. :** 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             | MCCP (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:**

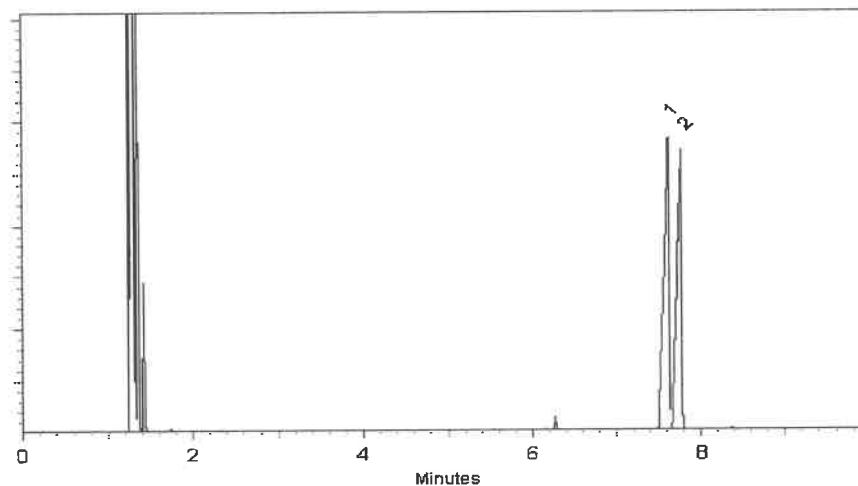
FID

**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](http://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.

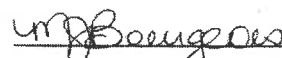
**Expiration of Certification:**

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/](http://www.agilent.com/quality/)  
CSD-QA-015.2

ISO 17025  
Cert No. AT-1937

**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.

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P13561  
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9/25/2024



**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:**

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**Homogeneity:**

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P13541  
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P13561  
20  
9/25/2024



**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:**

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**Homogeneity:**

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P13561  
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9/25/2024



**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     |
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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     |
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| 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     |
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| 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     |

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P13541  
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P13561  
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9/25/2024





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. :** 32050 **Lot No.:** A0221255

**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 :** October 31, 2031 **Storage:** 10°C or colder

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

## CERTIFIED VALUES

| Elution Order | Compound                                    | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------------------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2,4-Dichlorophenyl acetic acid methyl ester | 55954-23-9 | 13054200 | 99%    | 202.0 µg/mL                 | +/- 3.4272                             |

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

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

13968  
↓  
13977

10

AWF  
4/16/2025

# 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.)

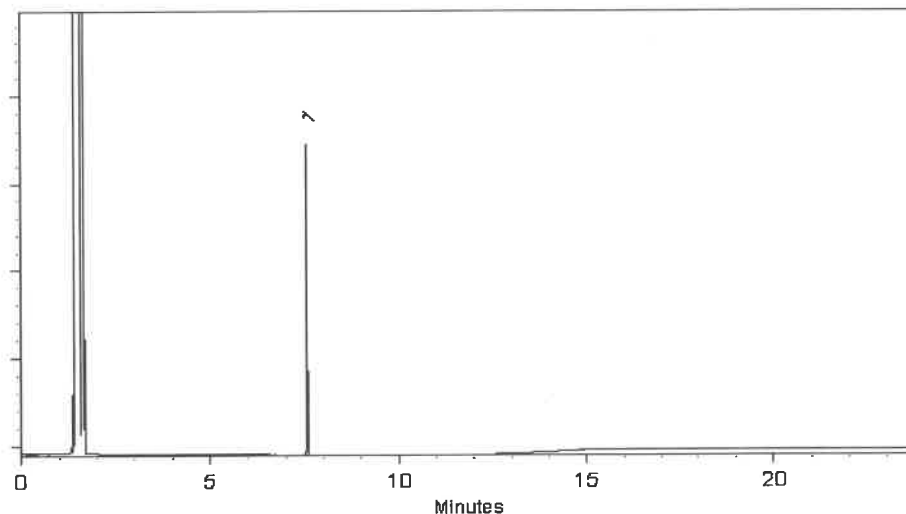
**Inj. Temp:**  
250°C

**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.

  
Ethan Winiarski - Operations Tech I

**Date Mixed:** 20-Jan-2025 **Balance Serial #** B345965662

  
Brittany Federinko - Operations Tech I

**Date Passed:** 22-Jan-2025

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



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

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



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**Catalog No. :** 32050 **Lot No.:** A0221255

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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 :** October 31, 2031 **Storage:** 10°C or colder

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

## CERTIFIED VALUES

| Elution Order | Compound                                    | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------------------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
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\* Expanded Uncertainty displayed in same units as Grav. Conc.

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

13968  
↓  
13977

10

AWF  
4/16/2025

# 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.)

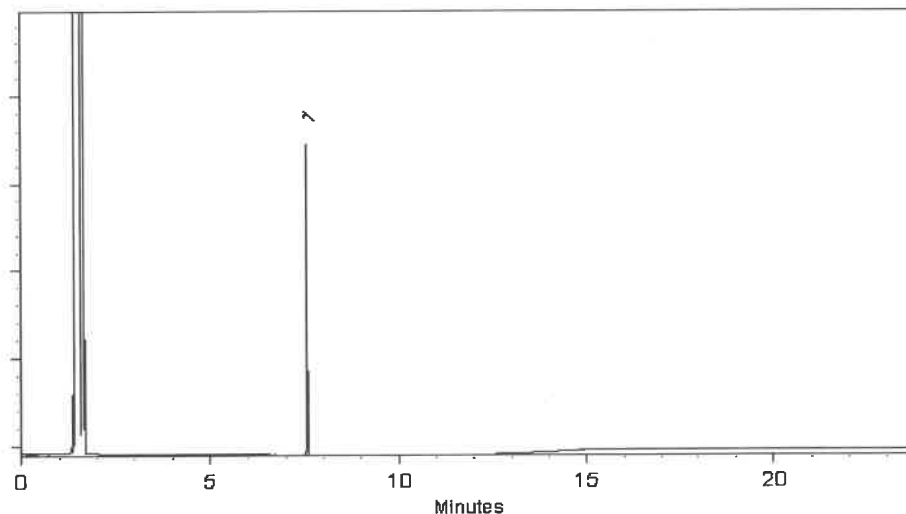
**Inj. Temp:**  
250°C

**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.

  
Ethan Winiarski - Operations Tech I

**Date Mixed:** 20-Jan-2025 **Balance Serial #** B345965662

  
Brittany Federinko - Operations Tech I

**Date Passed:** 22-Jan-2025

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



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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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 :** October 31, 2031 **Storage:** 10°C or colder

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

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↓  
P14073 } AC  
6/23/25

### CERTIFIED VALUES

| Elution Order | Compound                                    | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------------------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2,4-Dichlorophenyl acetic acid methyl ester | 55954-23-9 | 13054200 | 99%    | 202.0 µg/mL                 | +/- 3.4272                             |

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

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



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



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**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 :** October 31, 2031 **Storage:** 10°C or colder

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

P14064  
↓  
P14073 } AC  
6/23/25

### CERTIFIED VALUES

| Elution Order | Compound                                    | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------------------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2,4-Dichlorophenyl acetic acid methyl ester | 55954-23-9 | 13054200 | 99%    | 202.0 µg/mL                 | +/- 3.4272                             |

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

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



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



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**Catalog No. :** 32050 **Lot No.:** A0221255

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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 :** October 31, 2031 **Storage:** 10°C or colder

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

P14064  
↓  
P14073 } AC  
6/23/25

### CERTIFIED VALUES

| Elution Order | Compound                                    | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------------------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2,4-Dichlorophenyl acetic acid methyl ester | 55954-23-9 | 13054200 | 99%    | 202.0 µg/mL                 | +/- 3.4272                             |

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

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



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

## Certificate of Analysis



ISO 17034 Accredited  
Reference Material Producer  
Certificate #3222.01



ISO/IEC 17025 Accredited  
Testing Laboratory  
Certificate #3222.02

### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Received by  
SG on 8/16/19  
P8828  
P8826

### CERTIFIED VALUES

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

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

**Column:**

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

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

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

**Inj. Temp:**

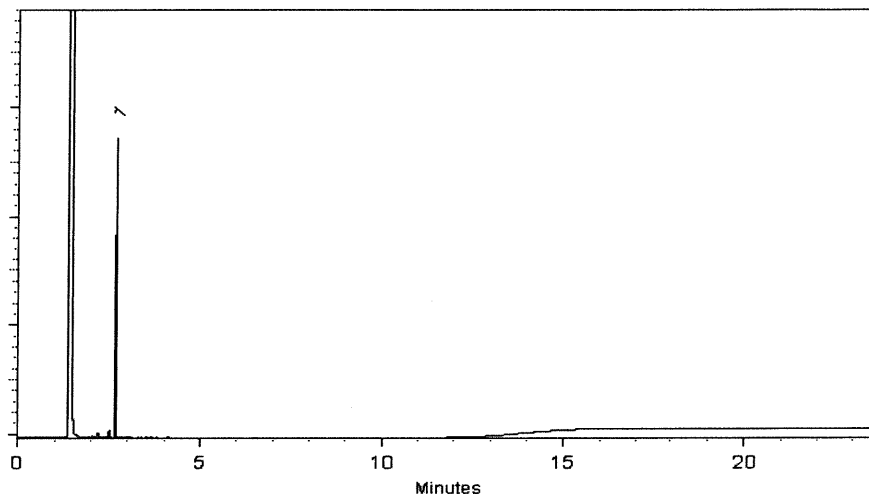
250°C

**Det. Temp:**

330°C

**Det. Type:**

FID



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

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2019

Balance: 1127510105

  
Feng-Yin Lo - QC Analyst

Date Passed: 15-Apr-2019

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



# 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:

026081

COC Number:

CLIENT INFORMATION

PROJECT INFORMATION

BILLING INFORMATION

COMPANY: CORE ENVIRONMENTAL CONSULTANTS

PROJECT NAME: NYPA - POUCH

BILL TO: CORE ENVIRONMENTAL CONSULTANTS PC#

ADDRESS: 22-48 119TH STREET

LOCATION: 143 EDGEWATER STREET - STATEN ISLAND, NY 10305

CITY: COLLEGE POINT

STATE: NY ZIP: 11356

PROJECT MANAGER: ROLAND SCARDINO

ADDRESS: 2312 WEHRL DR

ATTENTION: ROLAND SCARDINO

E-MAIL: rscardino@coreenv.com

PHONE: 609-781-8074

CITY: BUFFALO

STATE: NY ZIP: 14221

PHONE: 609-781-8074

FAX:

PHONE: 609-781-8074

FAX:

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX:

HARD COPY: DAYS\*

EDD DAYS\*

\* TO BE APPROVED BY ALLIANCE

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

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

EDD Format: NYSDEC

| ANALYSIS |     |           |    |   |   |   |   |   |
|----------|-----|-----------|----|---|---|---|---|---|
| 1        | 2   | 3         | 4  | 5 | 6 | 7 | 8 | 9 |
| Full TC  | PCB | 90 Solids | PH |   |   |   |   |   |

COMMENTS

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

CHEMTECH SAMPLE ID

PROJECT SAMPLE IDENTIFICATION

SAMPLE MATRIX

SAMPLE TYPE

COLLECTION

# of Bottles

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| X | X | X | X |   |   |   |   |   |

Comments

1. NYPA - POUCH - SPENT CARBON

Solid

COMP

GRAB

DATE

TIME

# of Bottles

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| X | X | X | X |   |   |   |   |   |

Comments

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

RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

DATE/TIME

RECEIVED BY

DATE/TIME

# of Bottles

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| X | X | X | X |   |   |   |   |   |

Comments

1. J Frishberg

7/23/25

1.

1340

Comments:

MeOH extraction requires an additional 4oz. Jar for percent solid

# of Bottles

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| X | X | X | X |   |   |   |   |   |

Comments

RELINQUISHED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RECEIVED BY

DATE/TIME

# of Bottles

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| X | X | X | X |   |   |   |   |   |

Comments

RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

DATE/TIME

RECEIVED FOR LAB BY

DATE/TIME

# of Bottles

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| X | X | X | X |   |   |   |   |   |

Comments

3.

DATE/TIME

RECEIVED FOR LAB BY

DATE/TIME

RECEIVED FOR LAB BY

DATE/TIME

# of Bottles

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| X | X | X | X |   |   |   |   |   |

Comments

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       |